

CITY OF HOUSTON

HOUSTON AIRPORT SYSTEM (HAS)

INVITATION TO BID (ITB) SOLICITATION NO.: HHG-HOUCCF-2023-010 WILLIAM P. HOBBY AIRPORT CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II

Date Issued: September 30, 2022

Pre-Bid Conference /

Site Visit:

October 14, 2022, 01:30 P.M., CST, (face-to-face meeting) 7800 Airport Blvd, Houston, TX 77061 in

the Hobby Conference Room A, located on the Ticketing Level near the Delta check-in counter.

Questions Deadline: October 21, 2022 @ 3:00 P.M., CST

Solicitation Due Date: December 1, 2022 @ 10:30 A.M., CST

City Secretary's Office, City of Houston City Hall Annex, Public Level, Room P101 900 Bagby Street, Houston TX 77002

Solicitation Contact Humberto De La Garza

Person: Sr. Procurement Specialist, Houston Airport System

humberto.delagarza@houstontx.gov

Project Summary: The project consists of the demolition of the existing Terrazzo flooring and preparing the substrate to replace the old tile with clean quartz tile flooring in the concessions area between the east and west concourses.

NIGP Code: 91200 DBE Goal: 6 %



DocuSigned by:
6121834A077C41A

Jedediah Greenfield Interim Chief Procurement Officer

9/27/2022 | 12:57 CDT

Date



City of Houston - Department of Aviation - Infrastructure Division

PROJECT MANUAL

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II WILLIAM P. HOBBY AIRPORT

PROJECT No. 957

VOLUME NO. 1 OF 1 TOTAL VOLUMES

Divisions 00 through 16

Issue for Final Review - June 21, 2022

Molina Walker Almaguer Architects, Inc. 11767 Katy Freeway, Suite No. 430 Houston, TX 77079 713-782-8188

TBAE Firm Registration No. BR 616

COVER

00001-1

03-22-2017

Document 00010

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Document 00200

INSTRUCTIONS TO BIDDERS

1.0 RELATED DOCUMENTS

- A. Document 00210, Supplementary Instructions to Bidders.
- B. Document 00320, Geotechnical Information.
- C. Document 00330, Existing Conditions.
- D. Document 00410 Bid Form, Parts A & B.
- E. Document 00495, Post-Bid Procedures.
- F. Document 00520, Agreement.
- G. Document 00700, General Conditions.
- H. Document 00800, Supplementary Conditions.

2.0 DEFINITIONS

- A. Definitions set forth in Document 00700, General Conditions, and in other documents of Project Manual, are applicable to Bid Documents.
- B. Addendum: Written or graphic instrument issued prior to Bid opening, which clarifies, modifies, corrects, or changes Bid Documents.
- C. Alternate: The total amount bid for additions to work, as described in Section 01110, Summary of Work. Each Alternate includes cost of effects on adjacent or related components, and Bidder's overhead and profit.
- D. Bid: A complete and properly signed offer to perform the Work in accordance with this Document and Document 00210, Supplementary Instructions to Bidders.
- E. Bid Date: Date and time set for receipt of Bids as stated in Document 00210, Supplementary Instructions to Bidders, or as modified by Addenda.
- F. Bid Documents: Project Manual, Drawings, and Addenda.
- G. Bid Supplement: A Bid submittal that is required in Document 00410, Bid Form.
- H. *Bidder:* Person or firm, identified in Document 00410B, Bid Form, Part B, including its successors, and its authorized representative.

- I. Code: Code of Ordinances, Houston, Texas.
- J. Low Bidder: Apparent successful Bidder that qualifies as a responsible Bidder and that submits Bid with lowest Total Bid Price.
- K. Project Manager: Person designated in Document 00100, Advertisement for Bids, and Document 00220, Request for Bid Information, to represent the City during bidding and post-bid periods.
- L. Project Manual: Volume assembled for the Work that includes the bidding requirements, sample forms, Conditions of the Contract, and Specifications.
- M. Security Deposit: A certified check, cashier's check, or bid bond in the amount of 10 percent of the Total Bid Price.
- N. Total Bid Price: Total amount bid for performing the Work as identified by Bidder in Document 00410B, Bid Form, Part B, which amount includes:
 - 1. Stipulated Price;
 - 2. Total Base Unit Prices;
 - 3. Total Extra Unit Prices:
 - 4. Total Cash Allowances; and
 - 5. Total Alternates.

3.0 NOTICE TO BIDDERS

A. Chapter 18, Ethics and Financial Disclosure, of the City of Houston Code of Ordinances makes it unlawful for a Contractor to offer any contribution to a candidate for City elective office (including elected officers and officers-elect) during a certain period of time prior to and following the award of the Contract by the City Council. The term "Contractor" includes proprietors of proprietorships, all partners of partnerships, and all officers, directors, and holders of 10 percent or more of the outstanding shares of corporations. statement disclosing the names and business addresses of each of those persons will be required to be submitted with each bid or proposal; for a City Contract. Bidder shall complete and submit Document 00455, Ownership Information Form, with its Bid to comply with this requirement. See Chapter 18 of the Code for further information.

- B. Chapter 15, Article VIII, of the City's Code provides that no contract shall be let, nor any other business transaction entered into, by the City with any person indebted to the City or a qualifying entity, if the contractor or transaction comes within the provisions of Section 15-1 (c) of the Code. Exceptions are provided in Section 15-126 of the Code. Bidder shall complete and submit Document 00455, Ownership Information Form, with its Bid to comply with this requirement.
- Neither bidder(s) nor any person acting on bidder(s)'s behalf shall attempt to influence the outcome of the award by the offer, presentation or promise of gratuities, favors, or anything of value to any appointed or elected official or employee of the City of Houston, their families or staff members. All inquiries regarding the solicitation are to be directed to the designated City Representative identified on the first page of the solicitation. Upon issuance of the solicitation through the pre-award phase and up to the date the City Secretary publicly posts notice of any City Council agenda containing the applicable award, aside from bidder's formal response to the solicitation, through the pre-award phase, written requests for clarification during the period officially designated for such purpose by the City Representative, neither bidder(s) nor persons acting on their behalf shall communicate with any appointed or elected official or employee of the City of Houston, their families or staff through written or oral means in an attempt to persuade or influence the outcome of the award or to obtain or deliver information intended to or which could reasonably result in an advantage to any bidder. However, nothing in this paragraph shall prevent a bidder from making public statements to the City Council convened for a regularly scheduled session after the official selection has been made and placed on the City Council agenda for action, or to a City Council committee convened to discuss a recommendation regarding the solicitation.

D. Compliance with Certain State Law Requirements.

 Anti-Boycott of Israel. Contractor certifies that Contractor is not currently engaged in, and agrees for the duration of this Agreement not to engage in, the boycott of Israel as defined by Section 808.001 of the Texas Government Code.

- 2. Anti-Boycott of Energy Companies. Contractor certifies that Contractor is not currently engaged in, and agrees for the duration of this Agreement not to engage in, the boycott of energy companies as defined by Section 809.001 of the Texas Government Code.
- 3. Anti-Boycott of Firearm Entities or Firearm Trade Associations. Contractor certifies that Contractor does not have a practice, policy, directive auidance. or discriminates against a firearm entity or firearm trade association, or will not discriminate against a firearm entity or firearm trade association for the duration of this Agreement, as defined by Section 2274.001 of the Texas Government Code.
- 4. Certification of No Business with Foreign Terrorist Organizations. For purposes of Section 2252.152 of the Code, Contractor certifies that, at the time of this Agreement neither Contractor nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of Contractor, is a company listed by the Texas Comptroller of Public Accounts under Sections 2252.153 2270.0201 of the Texas Government Code as a company known to have contracts with or provide supplies to a foreign terrorist organization.
- E. Zero Tolerance Policy for Human Trafficking and Related Activities. The requirements and terms of the City of Houston's Zero Tolerance Policy for Human Trafficking and Related Activities, as set forth in Executive Order 1-56, as revised from time to time, are incorporated into this Contract for all purposes. Bidder has reviewed Executive Order 1-56, as revised, and shall comply with its terms and conditions as they are set out at the time of this Contract's effective date. Bidder shall notify the City's Chief Procurement Officer, City Attorney, and the Director of any information regarding possible violation by the Bidder or its subcontractors providing services or goods under this Contract within 7 days of Bidder becoming aware of or having a

INSTRUCTIONS TO BIDDERS

reasonable belief that such violations may have occurred, have occurred, or are reasonably likely to occur.

- F. The requirements of Subchapter J, Chapter 552, Government Code, may apply to this bid and the contractor or vendor agrees that the contract can be terminated if the contractor or vendor knowingly or intentionally fails to comply with a requirement of that subchapter.
- G. Prospective Vendor Responsibility.

 The City will award contracts only to the responsible vendor possessing the ability to perform successfully under the terms and conditions of a proposed procurement. The City's policy is to award contracts only to a prospective vendor whom the City's contracting department has determined to be responsible, considering the following non-exhaustive factors:
 - Record of integrity and business ethics, including timely payments to subcontractors/subconsultants, business judgment, reputation, and reliability.
 - History of compliance with public policy and applicable laws, or the lack thereof.
 - Record of past performance, including but not limited to, poor performance, failure to achieve reasonable progress, or defaulting on existing or previous City of Houston contracts, if any.
 - Capacity to perform the required work or provide the required goods or services, which may include having (or having the ability to obtain) adequate financial and technical resources to perform the contract and any necessary equipment, facilities, organization, experience, efficiency, operational control, or technical skills, as applicable.
 - Financial responsibility, including the ability to provide adequate bonds and insurance, as applicable.
 - History of compliance with prevailing wage and other labor standards requirements.
 - Record of failure to make good faith efforts to meet MWBE goals.
 - Qualification and eligibility to receive an award under applicable laws and regulations, including any federal rules or regulations (e.g., 2 CFR Part 200).
 - Ineligibility due to being suspended or debarred by federal, state, city, or county governmental agencies.

4.0 BID DOCUMENTS

A. The Bid Documents may be obtained at

location specified in Document 00210, Supplementary Instructions to Bidders.

- B. The Bid Documents are made available only for the purpose of bidding on the Work. Receipt of Bid Documents does not grant a license for other purposes.
- C. On receipt of Bid Documents, Bidder shall verify that documents are legible and complete, compare contents of Project Manual with Document 00010, Table of Contents, and compare Index of Drawings with Document 00015, List of Drawings. Bidder shall notify Project Manager if Bid Documents are incomplete.
- D. If City of Houston Standard Specifications or Standard Details are required by the Project Manual, Bidder shall refer to Document 00210, Supplementary Instructions to Bidders for purchase information.

5.0 EXAMINATION OF DOCUMENTS, SITE, AND LOCAL CONDITIONS

- A. Bidder shall examine Project site, become familiar with local conditions under which the Work shall be performed, conduct appropriate investigations, and correlate personal observations with requirements of the Bid Documents before submitting a Bid.
- B. Bidder shall make site investigations to the extent Bidder deems necessary to ascertain extent of subsurface conditions.
- C. Failure of Bidder to perform the investigations prior to submitting a Bid does not relieve Bidder of responsibility for investigations, interpretations and proper use of available information in the preparation of its Bid.
- Bidder shall observe limitations of access to occupied or restricted site as stated in Document 00210, Supplementary Instructions to Bidders.

6.0 INTERPRETATIONS DURING BIDDING

- A. Bidder shall immediately submit Document 00220, Request for Bid Information, to Project Manager upon finding errors, discrepancies, or omissions in Bid Documents. Confirmation of receipt of questions by the City is the responsibility of Bidder. Verbal discussions and answers are not binding.
- B. Document 00220, Request for Bid Information, must be received at least 10 days before the Bid Date to allow issuance of Addenda in accordance with Paragraph 7.O.D. Replies, if issued, are by Addenda.

INSTRUCTIONS TO BIDDERS

7.0 ADDENDA

- A. Addenda that affect bidding requirements are applicable only through issuance of the Notice to Proceed. Addenda that affect the Contract are a part of the Contract.
- B. BIDDERS WHO SUBMIT A BID ON THIS PROJECT SHALL BE PRESUMED TO HAVE RECEIVED ALL ADDENDA AND TO HAVE INCLUDED ANY COST THEREOF IN THEIR BIDS, REGARDLESS OF WHETHER THEY ACKNOWLEDGE THE ADDENDA OR NOT
- C. The City will make Addenda available at same location where the Bid Documents may be obtained. The City will notify plan holders of record when Addenda are available. Bidders are responsible for obtaining Addenda after notification.
- D. No Addendum will be issued later than noon on Monday before Bid Date, except Addenda with minor clarifications, withdrawing request for Bids, or postponing Bid Date.

8.0 SUBSTITUTION OF PRODUCTS

 A. No substitutions of Products will be considered during the bidding period.

9.0 PREPARATION OF BIDS

- A. Bidder shall fill in applicable blanks in Document 00410A&B, Bid Form, Parts A & B, and Bid Supplements. In addition, Bidder shall bid all Alternates. Bidder shall properly sign Document 00410B, Bid Form.
- B. Bidder shall initial all pages, except signature page, of Document 00410B, Bid Form, Part B.
- C. Bidder is responsible for all costs incurred by the Bidder, associated with preparation of its Bid and compliance with Post-bid Procedures.
- D. Bidder may not adjust preprinted price on line items stating "Fixed Unit Price" in the description on the Bid Form.
- E. Bidder may increase, but not decrease, preprinted price on line items stating "Minimum Bid Price" in the description on the Bid Form by crossing out the minimum and inserting revised price on the line above. Bidder may not decrease the preprinted price on line items stating "Minimum Bid Price".

- F. Bidder may decrease, but not increase, preprinted price on line items stating "Maximum Bid Price" in the description on the Bid Form by crossing out the maximum and inserting revised price on the line above. Bidder may not increase the preprinted price on line items stating "Maximum Bid Price".
- G. Bidder shall insert a price no greater than the maximum preprinted range and no less than the preprinted range for line items stating "Fixed Range Unit Price" in the description on the Bid Form by crossing out prices noted and inserting revised price on the line above.
- H. Bidder may not adjust Cash Allowance amounts.

10.0 BID SUBMISSION

- A. City Secretary will receive Bids on Bid Date at location specified in Document 00210, Supplementary Instructions to Bidders.
- B. Bids submitted after Bid Date will be returned to Bidder unopened.
- Verbal, facsimile, or electronic Bids are invalid and will not be considered.
- D. Bidder shall submit in person or by mail one copy of the signed Document 00410, Bid Form, Parts A and B, along with required Security Deposit, and required Bid Supplements, in a sealed, opaque envelope. In addition, Bidder shall clearly identify Project, Bid Date and Bidder's name on outside of envelope. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed for postal delivery.

11.0 BID SECURITY

- A. Bidder shall submit a Security Deposit with its Bid.
- B. Certified Check or Cashier's Check
 - 1. Bidder shall make check payable to the City of Houston.
 - A check is submitted on the condition that if Bidder is named Low Bidder and fails either to timely and properly submit documents required in Document 00495, Post-Bid Procedures, the City will cash the check in accordance with Paragraph 11.0.E.

C. Bid Bond

1. The bid bond must be a valid and

INSTRUCTIONS TO BIDDERS

- enforceable bond, signed by a surety that complies with other requirements set out by law.
- The bid bond must name the City of Houston as obligee, and be signed by the Bidder as principal and signed and sealed by the surety.
- The bid bond must be conditioned such that if Bidder is named Low Bidder and then fails to timely and properly submit documents required in Document 00495, Post-Bid Procedures, surety will be obligated to pay to the City an amount in accordance with Paragraph 11.0.E.
- D. Security Deposits will be retained until after the Contract is awarded or all Bids are rejected.
- E. Low Bidder forfeits Security Deposit if it fails to timely and properly submit documents required in Document 00495, Post-Bid Procedures. The City may claim an amount equal to the difference between the Total Bid Price of the defaulting Bidder and the Total Bid Price of the Bidder awarded the Contract. If Security Deposit is a check, the City will reimburse any remaining balance to the defaulting Bidder.

12.0 SUBCONTRACTORS AND SUPPLIERS

- A. The City may reject proposed Subcontractors or Suppliers.
- B. Refer to Document 00800,— Supplementary Conditions, for MWBE, PDBE, DBE and SBE goals.

13.0 MODIFICATION OR WITHDRAWAL OF BID

- A. A Bidder may modify or withdraw a Bid submitted before the Bid Date by written notice to the City Secretary. The notice may not reveal the amount of the original Bid and must be signed by the Bidder.
- B. Bidder may not modify or withdraw its Bid by verbal, facsimile, or electronic means.
- C. A withdrawn Bid may be resubmitted up to the time designated for receipt of Bids.

14.0 BID DISQUALIFICATION

- A. The City may disqualify a Bid if the Bidder:
 - 1. fails to provide required Security Deposit in the proper amount;
 - 2. improperly or illegibly completes

information required by the Bid Documents:

- fails to sign Bid or improperly signs Bid:
- 4. qualifies its Bid; or
- 5. improperly submits its Bid.
- B. When requested, Low Bidder shall present satisfactory evidence that Bidder has regularly engaged in performing construction work as proposed, and has the capital, labor, equipment, and material to perform the Work.

15.0 PREBID MEETING

- A. A prebid meeting is scheduled to be held at the place, time, and date listed in Document 00210, Supplementary Instructions to Bidders.
- B. All Bidders, subcontractors, and suppliers are invited to attend.
- C. Representatives of City Engineer will attend.

16.0 OPENING OF BIDS

- A. Bids are opened by the City Secretary and publicly read in City Council Chambers on the Public Level in City Hall Annex at 11:00 a.m. on Bid Date.
- Place and date of Bid opening may be changed in accordance with Sections 15-45(c) of the City Code.

17.0 EVALUATION AND CONSIDERATION OF BIDS

- Project Manager will tabulate, record, and evaluate Bids.
- B. The City may reject all Bids or may reject any defective Bid.

18.0 ACCEPTANCE OF THE BID

- A. The City will send to Low Bidder Document 00498, Notice of Intent to Award. Acceptance by the City is conditioned upon Bidder's timely and proper submittal of documents required in Document 00495, Post-Bid Procedures.
- B. The Bid remains open to acceptance and is irrevocable for the period of time stated in Document 00410A, Bid Form, Part A.

END OF DOCUMENT

Document 00210

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

The following Paragraphs modify Document 00200 - Instructions to Bidders. Where a portion of the Instructions to Bidders is modified or deleted by these Supplementary Instructions, the unaltered portions of the Instructions to Bidders remains in effect.

PARAGRAPH 2.0 - DEFINITIONS:

Add the following sub-Paragraphs to this Paragraph:

O. Office of Business Opportunity (OBO): All references to Affirmative Action Contract Compliance Division (AACC) set forth in Document 00700 – General Conditions and in other documents of the Project Manual, shall refer to, and include, the Office of Business Opportunity.

PARAGRAPH 3.0 – NOTICE TO BIDDERS

Add the following sub-Paragraph to this Paragraph:

- H. The City will award this contract to a "Local Business", as that term is defined in Section 15-176 of the City of Houston Code of Ordinances ("the Code"):
 - If the bid of the Local Business is less than \$100,000 and is the lowest responsible bid or is within 5% of the lowest bid received, or
 - If the bid of the Local Business is more than \$100,000 and is the lowest responsible bid or is within 3% of the lowest bid received, and
 - Unless the Director determines that such an award would unduly interfere with contract needs, as provided in Section 15-181 of the Code.

If there is no bid of a Local Business that meets these criteria, the City will award the contract to the lowest responsible bidder.

PARAGRAPH 4.0 - BID DOCUMENTS

Add the following sub-Paragraphs to this Paragraph:

- A. Add the following Paragraph A.1:
 - 1. Bid documents may only be obtained electronically at the Houston Airport System's website: https://www.fly2houston.com/biz/opportunities/solicitations/
 - D. Add the following Paragraph D.1:

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

- Copies of the City Standard Specifications and Details may be acquired at no cost on the Houston Airport System's website https://www.fly2houston.com/biz/resources/building-standards-and-permits/) "HOUSTON AIRPORTS DESIGN STANDARDS"
- E. The following plan rooms, whose names, addresses, phone and fax numbers were last updated on April 9, 2007, have been authorized by the City to display Bid Documents for examination:

(Note: The Bid Documents furnished to the plan rooms for examination can be in electronic format, in hard copies, or in any other formats pertaining to each City Contracting Division's discretion.)

- 1. Associated General Contractors (AGC-HHUI), Highway, Heavy Utilities and Industrial Branch, 2400 Augusta St., Suite 305, Houston, TX 77057, 713-334-7100, Fax 713-334-7130. Email: msimons@agctx.org (Attention: Mellora Connelly)
- 2. Houston Minority Business Development Center, 2900 Woodridge, Suite 124, Houston, TX 77087, 713-644-0821, Fax 713-644-3523. Email: gtamez@gacompanies.com
- 3. The Builders' Exchange of Texas, Inc., 4047 Naco Perrin Blvd., Ste. 100 San Antonio, TX 78217, 210-564-6900, Email: editor@virtialbx.com
- F. Add the following sub-Paragraph F.1:

*******INTENTIONALLY LEFT BLANK******

| *****INTE | NTIONAL | LY LEFT | BLANK***** |
|-----------|---------|---------|------------|

PARAGRAPH 8.0 - SUBSTITUTION OF PRODUCTS

Delete the existing sub-Paragraph A in its entirety, and replace it with the following sub-Paragraphs A, B, C, and D:

- A. Where Bid Documents specify a specific Product with provision for consideration of substitutions (or equal), requests for pre-bid approval of substitutions will be considered from Bidders only if received by Project Manager 10 days or more prior to Bid Date.
- B. Requests for substitutions must provide complete information to determine acceptability of the Products, in accordance with provisions of Document 00700 General Conditions.
- C. The City will consider requests for substitutions and, if approved, will issue an Addendum. Bidder shall base its Bid only on substitutions approved in Addenda. Substitutions, not listed in an Addendum, are not allowed.
- D. Bidder shall include in its Bid, costs of substitutions approved by Addenda.]

PARAGRAPH 9.0 – PREPARATION OF BIDS

Add the following sub-Paragraph I to this Paragraph:

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

I. For math errors the City encounters in analyzing Bids, the following guidance will be used:

In the event of a conflict between:

The Bid Price is:

- Individual Unit Price and Extension of that Unit Price
- 2. A Unit Price extension and total of Unit Price Extensions
- 3. Individual Alternate and total of Alternates
- Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances, and Alternates; and the Total Bid Price

Individual Unit Price times
Estimated Quantity
Sum of all Individual Unit Price
Extensions
Sum of all Individual Alternates

Sum of Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances and Alternates

PARAGRAPH 10.0 - BID SUBMISSION

Add the following sub-Paragraph A.1 to this Paragraph:

- A. Add the following sub-Paragraph A.1:
 - Sealed bids, in triplicate, one (1) original marked "Original" and two (2) copies of the bids (also includes two (2) USB drives of all required submittals identified in Document 00410 Section 1.0 Offer) will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Room P101, Houston, Texas 77002, until 10:30 a.m., (Local Time) on **December** 1, 2022.

- E. Add the following Paragraph "E." to Section 10:
 - E. Bidders shall submit Document 00470 Bidder's MWSBE Participation Plan (or 00470D Bidder's DBE Participation Plan if FAA funded project) with the bid. If the MWSBE goal is

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

not met, the Document 00471 Pre-bid Good Faith Efforts, and Document 00472 Bidder's MWSBE Goal Deviation Request form shall also be included in the submission with the bid (If the DBE goal is not met, following Section 2.A.12. of Document 00806).

11.0 - BID SECURITY: Add the following Paragraph 1. to Section 11.0.A.:

- 1. Bidder shall submit a Security Deposit in the form of:
 - a.) Certified Check;
 - b.) Cashier's Check; or
 - c.) Bid Bond

Bidder should submit just one form of Security Deposit among the three listed above, and such form shall be issued according to Section 11.0.B and 11.0.C.

PARAGRAPH 15.0 - PREBID MEETING

Add the following sub-Paragraph A.1 to this Paragraph:

- A. Add the following Paragraph A.1:
 - 1. A Prebid Meeting will be held at Houston Airport System *William P. Hobby Airport*, conference room # A ,7800 Airport Blvd, Houston, TX 77061, at 1:30P.M. CST on October 14, 2022.
 - 2. Pre-bid Meeting Questions will be due from bidders at 3:00 p.m. (local time), on October 21, 2022.
 - 3. A Site Visit will begin after the Pre-bid Meeting. The meeting and site visit are the only opportunity for bidders to see the site prior to Bid Due Date.

16.0 – OPENING OF BIDS: Replace Section B with the following:

B. Place and date of Bid opening may be changed in accordance with Section 15-45(c) of the City Code.

The following Section is added as part of this solicitation:

3.0 - NOTICE TO BIDDERS

F. RESOLVING PROTESTS

1. Protests will be handled in accordance with City of Houston Administrative Policy AP 5-12. http://www.houstontx.gov/adminpolicies/5-12.pdf.

END OF DOCUMENT

Document 00220

REQUEST FOR BID INFORMATION

| PROJECT: | HOU CENTRAL CONCOURSE FLOORIN | IG REPLACEMENT - PHASE II |
|-------------------------------------|--|---------------------------|
| PROJECT N | o.: <u>957</u> | |
| TO: | Humberto de la Garza, Senior <i>Procureme</i> 18600 Lee Road Humble, Texas 77338 | ent Specialist, SCM |
| Phone No. Fax No. Email Addr. | 832-963-1257 humberto.delagarza@houstontx.gov | |
| (Type or Print ques | tion legibly; use back if more space is needed) | |
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| | | |
| This request | relates to and/or | |
| | Drawing / Detail No. | Specification Section No. |
| Attachments | to this request: | |
| | | |
| | | |
| Signature | | Date |
| (Type or Print Nam | e) | |
| (Type or Print Com | pany Name) | |

END OF DOCUMENT

00220**-**1 9-2-2014

Document 00410A

BID FORM – PART A

To: The Honorable Mayor and City Council of the City of Houston City Hall Annex 900 Bagby Street Houston, Texas 77002

Project: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT -

PHASE II

Project No.:

957

Bidder:

(Print or type full name of business entity, such as corporation, LLC,

etc)

1.0 OFFER

- **A.** Total Bid Price: Having examined the Project location and all matters referred to in Bid Documents for the Project, we, the undersigned, offer to enter into a Contract to perform the Work for the Total Bid Price shown on the signature page of this Document
- B. Security Deposit: Included with the Bid is a Security Deposit in the amount of 10 percent of the Total Bid Price subject to terms described in Document 00200 -Instructions to Bidders.
- C. Period for Bid Acceptance: This offer is open to acceptance and is irrevocable for 180 days from Bid Date. That period may be extended by mutual written agreement of the City and Bidder.
- D. Addenda: All Addenda have been received. Modifications to Bid Documents have been considered and all related costs are included in the Total Bid Price.
- **E. Bid Supplements:** The following documents are attached:
 - [X] Security Deposit (as defined in Document 00200 Instructions to Bidders)
 - Document 00450 Bidder's Statement of MWSBE Status
 - [X] Document 00454 Affidavit of Non-interest
 - [X] Document 00455 Ownership Information Form
 - Document 00456 Bidder's Certificate of Compliance with Buy American [X] Program (required for AIP funded project)
 - Document 00457 Conflicts of Interest Questionnaire (CIQ) [X]
 - Document 00458 Bidder's Certificate Regarding Foreign Trade Restriction (required for AIP funded project)
 - [X] Document 00459 Contractor's Statement Regarding Previous Contracts Subject to EEO (required for AIP funded project)
 - [X] Document 00460 Pay or Play Acknowledgement Form (POP 1-A)
 - [] Document 00461 Hire Houston First Affidavit
 - Document 00470 Bidder's MWSBE Participation Plan (required unless no MWSBE participation goal is provided in Document 00800 (the "Goal")).

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II BID FORM Project No. 957 PART A

| [X] | Document 00470D - Bidder's DBE Participation Plan (required for AIP funded project) |
|-----|---|
| [] | Document 00471 – Bidder's Record of Good Faith Efforts (required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal). |
| [] | Document 00472 – Bidder's Goal Deviation Request (required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal). |
| [X] | Document 00480 – Form SCM-1 Reference Verification |
| [X] | Document 00481 – Non-Collusion Statement |
| [] | Document 00842 – Letter of Intent |
| [] | Others as listed: |
| | |

2.0 CONTRACT TIME

A. If offer is accepted, Contractor shall achieve Date of Substantial Completion within One Hundred Twenty (120) days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

Document 00410B

BID FORM - PART B

| 1.0 | TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE |
|-----|--|
| | FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE |
| | NUMERICAL AMOUNTS): |

| A. | STIPULATED PRICE: | \$ |
|----|---|--|
| | (Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash | Allowances and All Alternates, if any) |

B. BASE UNIT PRICE TABLE:

| Item No. | Spec Ref. | Base Unit Short Title | Unit of Measure | Estimated Quantity | Unit Price (this column controls) | Total in figures |
|------------------------|--------------|-----------------------|--------------------|-----------------------|---|--------------------|
| 1 | | N/A | Ea. | | (1) | [Insert Amount] |
| 2 | | N/A | Day | | (1) | [Insert Amount] |
| | | | | | | |
| TOTAL BASE UNIT PRICES | | | | | | |

C. EXTRA UNIT PRICE TABLE:

| Item No. | Spec Ref. | Extra Unit Short Title | Unit of Measure | Estimated Quantity | Unit Price (this column controls) | Total in figures |
|-------------------------|--------------|------------------------|--------------------|-----------------------|---|------------------|
| 1 | | N/A | | | | |
| | | | | | | |
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| | | | | | | |
| TOTAL EXTRA UNIT PRICES | | | | | | |

REST OF PAGE INTENTIONALLY LEFT BLANK

CASH ALLOWANCE TABLE:

| Item No. | Spec Ref. | Cash Allowance Short Title | Cash Allowance in figures (1) |
|-------------|--------------|----------------------------|-------------------------------------|
| 1 | | Building Permit | \$6,000.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTAL | CASH AL | LOWANCES | \$6,000.00 |

REST OF PAGE INTENTIONALLY LEFT BLANK

E. ALTERNATES TABLE:

| Item No. | Spec Ref. | Alternate Short Title | Unit of Measure | Estimated Quantity | Unit Price (this column controls) | Total Price for Alternate in figures |
|------------------|--------------|-----------------------|--------------------|-----------------------|---|--|
| 1 | | N/A | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTAL ALTERNATES | | | | | \$ | |

REST OF PAGE INTENTIONALLY LEFT BLANK

| F. | TOTAL BID PRICE: | \$ |
|----|---|---|
| | (Add Totals for Stipulated Price (A + A1), Base Unit Price, | Extra Unit Price, Cash Allowance, and All Alternates, if any) |

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

| Bidder: | | | |
|-----------|---|---|---|
| | (Print or type full name of your proprietorsh | nip, partnership, corporation, or joint venture.* |) |
| Ву: | | | |
| • | Signature | Date | |
| Name: | | | |
| | (Print or type name) | Title | |
| Address: | | | |
| | (Mailing) | | |
| | | | |
| | (Street, if different) | | |
| Telephone | and Fax Number: | | |
| | (Print or type nur | nbers) | |

- * If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.
- ** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder, but not decreased, by crossing out the Minimum and inserting revised price on the line above. **Cannot** be decreased by the Bidder.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased by the Bidder, but not increased, by crossing out the Maximum and inserting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive. **Cannot** be increased by the Bidder.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II **BIDDER'S BOND**

Proiect No. 957 Document 00430 **BIDDER'S BOND** THAT WE, , as Principal, (Bidder) ("Bidder"), and the other subscriber hereto, , as Surety, do hereby acknowledge ourselves to be held and firmly bound to the City of Houston, a municipal corporation, in the sum of Dollars (\$___ _____) (an amount equal to 10 percent of the Total Bid Price, including Cash Allowances and Alternates, if any), for the payment of which sum, well and truly to be made to the City of Houston and its successors, the Bidder and Surety do bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally. THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT: WHEREAS, the Bidder has submitted on or about this day a proposal offering to perform the following: (Project Name, Location and Number) in accordance with the Drawings, Specifications, and terms and conditions related thereto to which reference is hereby made. NOW, THEREFORE, if the Bidder's offer as stated in the Document 00410 - Bid Form is accepted by the City, and the Bidder executes and returns to the City Document 00520 - Agreement, required by the City, on the forms prepared by the City, for the Work and also executes and returns the same number of the Performance, Payment and Maintenance Bonds (such bonds to be executed by a Corporate Surety authorized by the State Board of Insurance to conduct insurance business in the State of Texas, and having an underwriting limitation in at least the amount of the bond) and other submittals as required by Document 00495 - Post-Bid Procedures, in connection with the Work, within the Contract Time, then this obligation shall become null and void; otherwise it is to remain in full force and effect. If Bidder is unable to or fails to perform the obligations undertaken herein, the undersigned Bidder and Surety shall be liable to the City for the full amount of this obligation which is hereby acknowledged as the amount of damages which will be suffered by the City on account of the failure of such Bidder to perform such obligations, the actual amount of such damages being difficult to ascertain. Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other Party at the address prescribed in the Contract documents, or at such other address as the receiving Party may hereafter prescribe by written notice to the sending Party. IN WITNESS THEREOF, the Bidder and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney. ATTEST, SEAL: (if a corporation) WITNESS: (if not a corporation) (Name of Bidder) By: By:_ Name: Name: Title: Title: Date: ATTEST/SURETY WITNESS: (SEAL) (Full Name of Surety)

(Address of Surety for Notice) (Telephone Number of Surety) By: Name: Title: Date:

By:

Name:

Title:

Date:

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957

BIDDER'S STATEMENT OF MBE/WBE/PDBE/DBE/SBE STATUS

Document 00450

BIDDER'S STATEMENT OF MBE/WBE/PDBE/DBE/SBE STATUS

| This cert | | in |
|---|---|----|
| | (Bidder's Name) | |
| City-wide Enterpris Article V Disabiliti | the City of Houston Code of Ordinances, Chapter 15, Article V, relating to be percentage goals for contracting with Minority and Women-owned Business ses (MWBE) and Disadvantaged Business Enterprises (DBE), Chapter 15, I, relating to City-wide percentage goals for contracting with Persons with ses Business Enterprises (PDBE) and Chapter 15, Article IX, relating to City-reentage goals for contracting with a Small Business Enterprise (SBE) is as | |
| 1. | Bidder (individual, partnership, corporation) is [_] is not [_] a Minority Business Enterprise as certified by the Affirmative Action and Contract Compliance Division. | |
| 2. | Bidder (individual, partnership, corporation) is [_] is not [_] a Women-owner Business Enterprise as certified by the Affirmative Action and Contract Compliance Division. | d |
| 3. | Bidder (individual, partnership, corporation) does [_] does not [_] declare itself to be a Persons with Disabilities Business Enterprise as defined above | - |
| 4. | Bidder (individual, partnership, corporation) does [_] does not [_] declare itself to be a Disadvantaged Business Enterprise as defined above. | |
| 5. | Bidder (individual, partnership, corporation) does [_] does not [_] declare itself to be a Small Business Enterprise as defined above. | |
| Signa | ture: | |
| Title: | | |
| Date: | | |
| | | |

END OF DOCUMENT

Document 00454

AFFIDAVIT OF NON-INTEREST

| BEFORE ME, the undersigned authority, a | Notary Public in and for the State of Texas, on | |
|--|---|-------|
| this day personally appeared | , who | |
| | | |
| peing by me duly sworn on his oath stated | that he is | _, of |
| | Title | |
| Name | e of Firm | |
| the firm named and referred to and in the fo | oregoing; and that he knows of no officer, | |
| agent, or employee of the City of Houston b | peing in any manner interested either directly | |
| or indirectly in such Contract. | | |
| | | |
| | | |
| | Affiant's Signature | |
| | | |
| SWORN AND SUBSCRIBED before me or | n Date | |
| | | |
| | Notary Public in and for the State of TEXAS | |
| | Print or type name | |
| | | |
| | My Commission Expires: Expiration Date | |

END OF DOCUMENT

Document 00455

OWNERSHIP INFORMATION FORM

The City of Houston Ownership Information Form is used to gather information to comply with:

- a. The City of Houston Contractor Ownership Disclosure Ordinance (<u>Chapter 15 of the Code of Ordinances</u>, Article VIII. City Contracts; Indebtedness to City);
- b. The City of Houston Fair Campaign Ordinance (Chapter 18 of the Code of Ordinances); and,
- c. The State of Texas Statement of Residency Requirements (Tex. Govt. Code Chapter 2252).

Please complete the form, in its entirety, and submit it with the Official Bid or Proposal Form. Except as noted below regarding the Statement of Residency, failure to provide this information may be just cause for rejection of your bid or proposal.

NOTICE OF AFFIRMATIVE ACCEPTANCE OF THE CITY OF HOUSTON FAIR CAMPAIGN ORDINANCE

By submitting a bid or proposal to the City of Houston for a Contract in excess of \$50,000 or for which a request is presented to City Council for approval, all respondents agree to comply with the Chapter 18 of the Code of Ordinances.

Further, pursuant to Section 18-36 of the Code of Ordinances, it shall be unlawful either for any person who submits a bid or proposal to contribute or offer any contribution to a candidate or for any candidate to solicit or accept any contribution from such person for a period commencing at the time of posting of the City Council Meeting Agenda including an item for the award of the Contract and ending upon the 30th day after the award of the Contract by City Council.

INSTRUCTIONS

- 1. Please <u>type</u> or <u>legibly print in dark ink</u> responses. Individuals and entities should disclose their full, legal names (not initials) and all required corporate letters ("Inc", "LLP", etc.).
 - a. If a firm is operating under an assumed name, the following format is recommended: Corporate/Legal Name DBA Assumed Name.
- 2. Full addresses are required, including street types ("St", "Rd", etc.) and unit number.
- 3. Individuals or entities with 10% or more ownership of the corporation, partnership, or joint venture (including persons who own 100%) are required to be disclosed with their full name and full address. All officers and directors are also required to be disclosed with their full name and full address.

PROJECT AND BID/PROPOSAL PREPARER INFORMATION

| Project or Matter Bein | g Bid: | | |
|---|--|----------|--|
| NI | n/company business inform | | |
| City / State / Zip Code _ | | | |
| Bidder's email addres Email Address: | s | | _ |
| | STATEMENT OF RESIDENCY PORTION SOLICITATION INDICATES F | OF TH | IS DOCUMENT IS NOT APPLICABLE IF THE |
| | ludes a contractor whose ulti | | ler" as a bidder whose principal place of business arent company or majority owner has its principa |
| TEX. GOV'T CODE §2 state. | 252.001(3) defines a "Nonre | sident | bidder" as a bidder who is not a resident in this |
| * Principal Place of Bus | iness in Texas means that the | busine | ess entity: |
| activities the bid is | | o gove | within the State of Texas, from which business rnmental agencies are conducted and from which fexas office. |
| Based on the definitions | s above, your business is a: | | TEXAS RESIDENT BIDDER NONRESIDENT BIDDER |
| | t Bidder, does your home stat opy of the statute to this Docu | | a statute giving preference to resident bidders? If |
| A copy of the State of _ | statute i | s attacl | ned. |

NOTE: The State of residency of a bidder is not used in the decision-making criteria for the award of contracts for projects receiving federal funding, whether in whole or in part.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II *Project No.* 957

OWNERSHIP
INFORMATION FORM

CONTRACTING ENTITY ORGANIZATIONAL ENTITY TYPE

| | FOR PROFIT ENTITY: | | NON-PROFIT ENTITY: | | | | |
|----------------------------|---|--------|----------------------------|--|--|--|--|
| | SOLE PROPRIETORSHIP | | NON-PROFIT CORPORATION | | | | |
| | CORPORATION | | UNINCORPORATED ASSOCIATION | | | | |
| | PARTNERSHIP | | | | | | |
| | LIMITED PARTNERSHIP | | | | | | |
| | JOINT VENTURE | | | | | | |
| | LIMITED LIABILITY COMPANY | | | | | | |
| | OTHER (specify in space below) | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | <u>LISTING</u> | OF ADD | PRESSES | | | | |
| and/or submit has no | List all current and prior addresses where the bidder does/has done business or owns property (real estate and/or business personal property) in the city of Houston ("Houston") in the past 3 years from the date of submittal of this form. If within the past 3 years from the date of submitting this form, the bidder does not and has not done business and has not or does not own property (real estate and/or business personal property) in Houston, please state "None" on the first line below. | | | | | | |
| | | | | | | | |
| Address | | | | | | | |
| | | | | | | | |
| Address | | | | | | | |
| | | | | | | | |
| Address | | | | | | | |

ATTACH ADDITIONAL SHEETS AS NEEDED.

LISTING OF OFFICERS

LIST ALL OFFICERS OF THE ENTITY, REGARDLESS OF THE AMOUNT OF OWNERSHIP (IF NONE STATE "NONE")

| Name | Officer | | |
|----------------|------------------------|---|------|
| | Officer | Address | |
| Name | Officer | | |
| | Officer | Address | |
| Name | Officer | Address | |
| | | Address | |
| Name | Officer | Address | |
| | | | |
| Name | Officer | Address | |
| Name | Officer | | |
| | Officer | Address | |
| | LISTING OF | DIRECTORS OR MEMBERS | |
| LIST ALL DIREC | TORS OF THE ENTITY, RE | GARDLESS OF THE AMOUNT OF OWNERSHIP (IF | NONE |
| STATE "NONE") | | | |
| Name | _ | | |
| | Director or Member | Address | |
| Name | Director or Member | | |
| | Director or Member | Address | |
| Name | | | |
| | Director or Member | Address | |
| Name | | | |
| Name | Director or Member | Address | |
| Name | | | |
| name | | | |

Address

Director or Member

DISCLOSURE OF OWNERSHIP (OR NON-PROFIT OFFICERS)

Bidders are required to disclose all owners of 10% or more of the Contracting Entity. For non-profit entities, please provide the complete information for the President, Vice-President, Secretary, and Treasurer.

In all cases, use <u>full</u> names, local business <u>and</u> residence addresses and telephone numbers. Do <u>not</u> use post office boxes for any address. Inclusion of e-mail addresses is optional, but recommended.

ATTACH ADDITIONAL SHEETS AS NEEDED.

| Contracting Entity: | | | |
|---|--|--|--|
| Name: | | | |
| Business Address [No./Street] | | | |
| City / State / Zip Code | | | |
| Telephone Number | | | |
| Email Address: | | | |
| | | | |
| DISCLOSURE OF OWNERSHIP (OR NON-PROFIT OFFICERS) continued. | | | |
| Owner(s) of 10% or More (IF NONE, STATE "NONE."): | | | |
| | | | |
| Name: | | | |
| Business Address [No./Street] | | | |
| City / State / Zip Code | | | |
| Telephone Number | | | |
| Email Address: | | | |
| Residence Address [No./Street] | | | |
| City / State / Zip Code | | | |
| | | | |
| O () - 5 400(M (IE NONE OTATE (NONE II) | | | |
| Owner(s) of 10% or More (IF NONE, STATE "NONE."): | | | |
| Name: | | | |
| Business Address [No./Street] | | | |
| City / State / Zip Code | | | |
| Telephone Number | | | |
| Email Address: | | | |
| Residence Address [No./Street] | | | |
| City / State / Zip Code | | | |

ATTACH ADDITIONAL SHEETS AS NEEDED.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II *Project No.* 957

Debtor (Firm or Owner Name):

Printed name

Title

OWNERSHIP INFORMATION FORM

OPTIONAL: TAX APPEAL INFORMATION

If the firm/company or an owner/officer is actively protesting, challenging, or appealing the accuracy and/or amount of taxes levied with a tax appraisal district, please provide the following information:

| | Preparer's Signature | Date | | | |
|--|---|------|--|--|--|
| certify that I am duly authorized to submit this form on behalf of the firm, that I am associated with the firm in the capacity noted below, and that I have personal knowledge of the accuracy of the information provided herein. I affirm that all the information contained herein is true and correct to the best of my knowledge. I understand that failure to submit accurate information with my submission may result in my submission being considered non-responsive and non-responsible. | | | | | |
| ا رو | REQUIRED: UNSWORN DECLARATION Certify that Lam duly authorized to submit this form on behalf of the firm, that Lam associated with the firm in | | | | |
| PEOLIDED: LINSWORN DECLARATION | | | | | |
| If an appeal of taxes has been filed on behalf of your company, please include a copy of the official form receipted by the appropriate agency. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Sta | atus of Appeal [DESCRIBE]: | | | | |
| | | | | | |
| | Tax Years: | | | | |
| | Attorney/Agent Phone No.: | | | | |
| | Attorney/Agent Name: | | | | |
| | Case or File Nos.: | | | | |
| | Tax Account Nos.: | | | | |

NOTE: This form constitutes a **governmental record**, as defined by Section 37.01 of the Texas Penal Code. Submission of a false government record and falsification of a governmental record are crimes, punishable as provided in Section 37.10 of the Texas Penal Code.

BIDDER'S CERTIFICATION OF COMPLIANCE WITH BUY AMERICAN PROGRAM

Document 00456

BIDDER'S CERTIFICATION OF COMPLIANCE WITH BUY AMERICAN PROGRAM (AVIATION SAFETY AND CAPACITY EXPANSION ACT OF 1990)

By submitting a bid, except for those items listed by Bidder below or on additional copies of this page, attached to this page, Bidder certifies that steel and each manufactured product, is produced in the United States (as defined in the clause Buy American - Steel and Manufactured Products for Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States. In case of conflicts with corresponding provisions of other Bidding Documents, Buy American Program provisions govern.

Bidders may obtain from the City a list of products excepted from this provision. Use additional copies of this page as required.

| PRODUCT | COUNTRY OF ORIGIN |
|---|--------------------------------------|
| | |
| | |
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| | |
| | |
| | |
| | |
| | |
| | |
| | |
| The above information is true and complete to | the best of my knowledge and belief. |
| Printed or typed Name of Signatory) | |
| Signature | Date |
| | |

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

END OF DOCUMENT

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957

CONFLICT OF INTEREST QUESTIONNAIRE

Document 00457

Conflict of Interest Questionnaire

Local Government Code Chapter 176 requires Bidders with the City of Houston ("City") to file a Conflict of Interest Questionnaire with the City Secretary of the City of Houston.

The Conflict of Interest Questionnaire is available for downloading on the Texas Ethics Commission's website at: http://www.ethics.state.tx.us

The completed Conflict of Interest Questionnaire will be posted on the City Secretary's website. Also you will find a list of the City Local Government Officers on the City Secretary's website.

For your convenience the CIQ form is attached as part of this document. Although the City has provided this document for the Bidders convenience, it is the Bidders responsibility to submit the latest version of the CIQ form as promulgated by the Texas Ethics Commission.

The Failure of any Bidder to comply with this law is a Class C misdemeanor.

BIDDER'S CERTIFICATION REGARDING FOREIGN TRADE RESTRICTIONS (49 CFR PART 30)

The undersigned certifies that Contractor (a) is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade representative (USTR); (b) has not knowingly entered into any contract or subcontract for this project with a contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list; (c) has not procured any product nor subcontracted for the supply of any product for use in the Work that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If Contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use in the Work, the Federal Aviation Administration may direct, through the sponsor, cancellation of the Contract at no cost to the Government.

Further, Contractor agrees that, if awarded a contract, Contractor will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. Contractor may rely upon the certification of a prospective subcontractor unless Contractor has knowledge that the certification is erroneous. Contractor shall provide immediate written notice to the City if Contractor learns that its certification or that of a Subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. Subcontractor agrees to provide immediate written notice to Contractor, if at any time it learns that Subcontractor certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that Contractor or Subcontractors knowingly rendered an erroneous certification, the Federal Aviation Administration may direct, through the City, cancellation of the Contract or subcontract for default at no cost to the City.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, certification required by this provision. The knowledge and information of Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

| | , | |
|--------------------------------------|------|--|
| (Printed or typed Name of Signatory) | | |
| Signature | Date | |

Certification- The above information is true and complete to the best of my knowledge and belief.

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

HOU Central Concourse Flooring Replacement Phase II PN 957

CONTRACTOR'S STATEMENT REGARDING PREVIOUS CONTRACTS SUBJECT TO EEO

Document 00459

CONTRACTOR'S STATEMENT REGARDING PREVIOUS CONTRACTS SUBJECT TO EQUAL EMPLOYMENT OPPORTUNITY

Section 60-1.7(b) of the Regulations of the Secretary of Labor requires each bidder or prospective prime contractor and proposed subcontractor, where appropriate, to state in the bid or at the outset of negotiations for the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and if so, whether it has filed with the Joint Reporting Committee, the Director, an agency, or the former President's Committee on Equal Employment Opportunity all reports due under the applicable filing requirements. In any case in which a bidder or prospective prime contractor or proposed subcontractor which participated in a previous contract subject to Executive Order 10925, 11114. or 11246 has not filed a report due under the applicable filing documents, no contract or subcontract shall be awarded unless such contractor submits a report covering the delinquent period or such other period specified by the FAA or the Director. OFCCP.

| 10925, 11114. or 11246 has not filed a report due | ripated in a previous contract subject to Executive Order under the applicable filing documents, no contract or extension a report covering the delinquent period or ector, OFCCP. |
|--|--|
| Contractor has has not participated in a pre prescribed by Executive Order 10925, or Executive | evious contract subject to the equal opportunity clause ve Order 11114, or Executive Order 11246. |
| under the applicable filing requirements; and that | iance reports in connection with any such contract due representations indicating submission of required actors will be obtained prior to award of subcontracts. |
| submitted compliance reports due under applicab | ct subject to the equal opportunity clause and has not le filing requirements, Contractor (Proposer) shall 0, "Employee Information Report EEO-1" prior to the |
| Standard Form 100 is normally furnished to contra maintained by the Joint Reporting Committee. In Contractor may obtain it by writing to the following | the event Contractor has not received the form, |
| Joint Reporting Committee 1800 G Street Washington, DC 20506 | |
| (Printed or typed Name of Signatory) | |
| Signature | Date |
| Title | |
| Contractor's Firm Name | |

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.



City of Houston Pay or Play Program Acknowledgement Form



It has been determined that the project currently open for bidding meets the criteria of the City of Houston Pay or Play program. This form acknowledges your awareness of the Pay or Play program which is authorized by Ordinance 2007-534. Your signature below affirms that you will comply with the requirements of the program upon contract award and ensure the same on behalf of your subcontractors that may be subject to the Pay or Play Program.

I declare under penalty of perjury under the laws of the State of Texas that if awarded this contract which meets the criteria for the City of Houston's Pay or Play Program, I will comply with all requirements of the Pay or Play Program in accordance with Executive Order 1-7.

Fill out all information below and submit this form with your bid/proposal packet.

| Solicitation Number | _ |
|---------------------|----------------|
| Signature | Date |
| Print Name | City Vendor ID |
| Company Name | Phone Number |
| Email Address | _ |

For more information about the Pay or Play program please visit http://www.houstontx.gov/obo/popforms.html.

Questions about the Pay or Play Program should be referred to the Department POP Liaison; an updated contact list is available on the Office of Business Opportunity website or call the POP Contract Administrator at 832-393-0633.

Document 00470D

Houston Airports City of Houston

Disadvantage Business Enterprise Participation Plan

SCHEDULE OF DBE PARTICIPATION

PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II

| DATE OF REPORT: | | | | | |
|------------------------------|--|---|------------------|---------------|-------------|
| BID NO.: | | | | | |
| FORMAL BID TITLE: | | | | | |
| NAME OF DBE SUBCONTRACTOR | OFFICE OF BUSINESS OPPORTUNITY CERTIFICATION NO. | STREET ADDRESS AND CITY, STATE, ZIP CODE | TELEPHONE NO. | SCOPE OF WORK | AGREE PRICE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | TOTAL | | | \$ |
| | | DBE PARTICIPATION AMO | UNT | | \$% |
| | | TOTAL BID AMOUNT | | | \$ |

(CONTINUED): SCHEDULE OF DBE PARTICIPATION
PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT **PHASE II**

| IF YOU HAVE USED YOUR BEST EFFORTS TO CARRY OUT THE CITY'S DBE POLICY BY SEEKING SUBCONTRACTS AND SUPPLY AGREEMENTS WITH DISADVANTAGE BUSINESS ENTERPRISES, YET FAILED TO MEET THE STATED PERCENTAGE GOAL OF THIS BID DOCUMENT, LIST BELOW YOUR GOOD FAITH EFFORTS FOR COMPLIANCE (DEFINITION OF REQUIREMENTS CAN BE OBTAINED THROUGH THE OFFICE OF BUSINESS OPPORTUNITY AT (713) 837-9000). |
|--|
| |
| |
| |
| |
| |
| THE UNDERSIGNED WILL ENTER INTO A FORMAL AGREEMENT WITH THE DISADVANTAGE BUSINESS ENTERPRISE SUBCONTRACTORS AND SUPPLIERS LISTED IN THIS SCHEDULE CONDITIONED UPON AWARD OF A CONTRACT FROM THE CITY. |
| NOTE: ALL FIRMS LISTED ABOVE MUST BE CERTIFIED (OR ELIGIBLE FOR CERTIFICATION) BY THE OFFICE OF BUSINESS OPPORTUNITY. THIS SCHEDULE OF DBE PARTICIPATION SHOULD BE RETURNED, IN DUPLICATE, WITH THE BID FORM. |
| THIS SCHEDULE OF DBE FARTICIFATION SHOULD BE RETURNED, IN DUFLICATE, WITH THE BID FORM. |
| BIDDER COMPANY NAME |
| SIGNATURE OF AUTHORIZED OFFICER OR AGENT OF BIDDER |
| NAME (TYPE OR PRINT) |

00470D 6-18-2019 (CONTINUED): SCHEDULE OF DBE PARTICIPATION

PROJECT NO. 957 PROJECT NAMÉ: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT

PHASE II

TITLE

DBE LETTER OF INTENT

PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II

THIS AGREEMENT IS SUBJECT TO BINDING ARBITRATION ACCORDING TO THE TEXAS GENERAL ARBITRATION ACT.

TO: City of Houston City Purchasing Agent

DISADVANTAGE BUSINESS ENTERPRISE (DBE) AND SUPPLIER

LETTER OF INTENT

| | Contract Bid Number: | | | |
|-------|---|------------------------------|--|---|
| | Bid Title: | | | |
| | Bid Amount: | | | |
| | DBE Participation Amo | ount: \$ | DBE GOAL 6% | |
| l. | | agre | ees to perform work/supply goods and/or | |
| | (Name of Disadvantage Business | | 1 11 0 | |
| | (a) | | das: Name of Prime Contractor | |
| | (b) | A Partnership | | |
| | (c) | A Corporation | | |
| | (d) | A Joint Venture | | |
| 2. | | status is confirm | ned by DBE Directory made | |
| | (Name of Disadvantage Business available through the City of Ho | | Opportunity. Certificate No.: | |
| 3. | | and | | |
| | (Name of Prime Contractor) intend to work on the above-nar Houston Contract Bid Provision | med contract in accordance | Intage Business Enterprise) The with the DBE Participation Section of the City | f |
| Γhe T | erms & Conditions of Attachment "C" | 'attached hereto are incorpo | orated into this Letter of Intent for all purposes. | |
| Sign | ed Prime Contractor) | (Signed Disad | vantage Business Enterprise) | |
| Title | *) | (Title) | | |
| Date | e) | (Date) | | |
| | | | | |

00470D 6-18-2019

CERTIFIED DBE SUBCONTRACT TERMS

1.

PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II

Contractor shall insure that all subcontracts with DBE subcontractors and suppliers are clearly labeled "THIS CONTRACT IS SUBJECT TO BINDING ARBITRATION ACCORDING TO THE TEXAS GENERAL ARBITRATION ACT" and contain the following terms:

(DBE subcontractor) shall not delegate or subcontract more than 50% of the work under this

| Business Opportunity ("the Director"). (DBE subcontractor) shall permit representatives of the Cit times, to perform 1) audits of the books and records of the subcontractor, and 2) inspections undertaken in connection with this subcontract. Subcontractor shall keep such books and records at least four (4) years after the end of its performance under this subcontract. Nothing in the | he City of Houston's Office of |
|---|------------------------------------|
| times, to perform 1) audits of the books and records of the subcontractor, and 2) inspections undertaken in connection with this subcontract. Subcontractor shall keep such books and record for at least four (4) years after the end of its performance under this subcontract. Nothing in the | |
| undertaken in connection with this subcontract. Subcontractor shall keep such books and reconstruction for at least four (4) years after the end of its performance under this subcontract. Nothing in the | y of Houston, at all reasonable |
| for at least four (4) years after the end of its performance under this subcontract. Nothing in the | * |
| 1 | ords available for such purpose |
| | is provision shall affect the time |
| for bringing a cause of action nor the applicable statute of limitations. | |

- 3. Within five (5) business days of execution of this subcontract, Contractor (prime contractor) and Subcontractor shall designate in writing to the Director an agent for receiving any notice required or permitted to be given pursuant to Chapter 15 of the Houston City Code of Ordinances, along with the street and mailing address and phone number of such agent.
- 4. As conclude by the parties to this subcontract, and as evidenced by their signatures hereto, any controversy between the parties involving the construction or application of any of the terms, covenants or conditions of this subcontract shall, on the written request of one party served upon the other or upon notice by Director served on both parties, be submitted to binding arbitration, under the Texas General Arbitration Act (Tex. Civ. Prac. & Rem. Code Ann., Ch. 171 "the Act"). Arbitration shall be conducted according to the following procedures:
 - a. Upon the decision of the Director or upon written notice to the Director form either party that a dispute has arisen, the Director shall notify all parties that they must resolve the dispute within thirty (30) days or the matter may be referred to arbitration.
 - b. If the dispute is not resolved within the time specified, any party or the Director may submit the matter to arbitration conducted by the American Arbitration Association under the rules of the American Arbitration Association, except as otherwise required by the City's contract with American Arbitration Association on file in the Office of the City's Office of Business Opportunity.
 - c. Each party shall pay all fees required by the American Arbitration Association and sign a form releasing the American Arbitration Association and its arbitrators from liability for decisions reached in the arbitration.
 - d. In the event the American Arbitration Association no longer administers Office of Business Opportunity arbitration for the City, the Director shall prescribe alternate procedures as necessary to provide arbitration by neutrals in accordance with the requirements of Chapter 15 of the Houston City Code of Ordinances.

These provisions apply to goal oriented contracts. A goal oriented contract means any contract for the supply of goods or non-personal or non-professional services in excess of \$100,000.00 for which competitive bids are required by law; not within the scope of the MBE/WBE program of the United States Environmental Protection Agency on the United States Department of Transportation; and ;, which the City Purchasing Agent has determined to have significant M/WBE subcontracting potential in fields which there are an adequate number on known MBE's and/or WBE's to compete for City contract.

The M/WBE policy of the City of Houston will discussed during the pre-bid. For information assistance, and/or to receive a copy of the City's Affirmative action policy and/or ordinance contact the Office of Business Opportunity at (713) 837-9000, 611 Walker, 7th Floor, Houston, Texas 77002.

OFFICE OF BUSINESS OPPORTUNITY AND CONTRACT COMPLIANCE DBE UTILIZATION REPORT

PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II

| Report Period: | | | | | | |
|--|--|------------------------|-----------------------------------|---------------------------|------------------------|-----------------------------|
| PROJECT NAME & NUMBER: | | | AWARD DATE: | | | |
| PRIME CONTRACTOR: | | | | | | |
| ADDRESS: | | | | | | |
| LIAISON/PHONE NO.: | | | | GOAL: | | |
| DBE SUB/VENDOR NAME | DATE OF OBO CERTIFICATION | DATE OF SUBCONTRACT | SUBCONTRACT AMOUNT | % OF TOTAL CONTRACT | AMOUNT PAID TO DATE | % OF CONTRACT TO DATE |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Please update this information r of Houston B2G System. Provi revenues paid to end of the repo DBE's to reflect up/down varia | ide support documentation ort period to: | n on all | ATTN: ((281) 233 18600 Lea | | Opportunity | |

OFFICE OF BUSINESS OPPORTUNITY AND CONTRACT COMPLIANCE DBE UTILIZATION REPORT

PROJECT NO. 957 PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT

PHASE II

DOCUMENT 00480

1.0 REFERENCES

REFERENCE VERIFICATION

- 1.1 Contractor must be able to demonstrate that they have sufficient expertise, qualified personnel experienced and that their company has done or currently providing the services of similar size as specified in the statement of work. Contractor must have been actively engaged as an actual business entity in the activities described in the bid document for at least the five (5) years immediately prior to the submission of their bid.
- 1.2 The reference(s) must be included in the space provided below. Additional pages may be added if necessary. References must be included at the time of bid submittal.

LIST OF CURRENT/PREVIOUS CUSTOMERS

| Company Name: | |
|-----------------------|---------------------------|
| Contact Person/Title: | Phone No.: |
| E-mail Address: | |
| Address: | |
| Contract Award Date: | Contract Completion Date: |
| Contract Name/Title: | |
| Project Description: | |
| Company Name: | |
| | Phone No.: |
| | |
| | |
| | Contract Completion Date: |
| Contract Name/Title: | |
| | |
| Company Name: | |
| | Phone No.: |
| E-mail Address: | |
| | |
| | Contract Completion Date: |
| Contract Name/Title: | |
| | |

DOCUMENT 00480

HOU Central Concourse Flooring Replacement Phase II PN 957

REFERENCE VERIFICATION

| SAMPLE | REFERENCE VERIFICATION |
|---|------------------------------------|
| Houston Airport System | |
| Planning, Design & Construction | |
| | |
| | |
| Reference Verification for | (Respondent's Company Name) |
| Name of Company: | |
| Name of Contact: | |
| Phone Number of Contact: | |
| E-Mail Address of Contact: | |
| QUESTIONS TO BE | ASKED BY HOUSTON AIRPORT SYSTEM |
| 1. When did this company perform work for | you? |
| 2. What type of service did this company pe | rform for you? |
| 3. Did they perform the work as agreed? | |
| 4. Was the company timely with responding | g to your needs? |
| 5. How many instances of services has this of | company provided for you? |
| 6. Did company representatives conduct th | emselves in a professional manner? |
| 7. Would you do business with this company | y again? |
| Additional Comments | |
| Additional Comments: | |
| Name/Phone Number of Person conducti | ng Reference Verification: |
| SIGNATURE: | DATE: |
| | |

HOU Central Concourse Flooring Replacement Phase II PN 957

ANTI-COLLUSION STATEMENT

DOCUMENT 00481

Anti-Collusion Statement

The undersigned, as Proposer, certifies that the only person or parties interested in this Proposal as principals are those named herein; that the Proposer has not, either directly or indirectly entered into any Agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the award of this Contract.

| Date | Proposer Signature |
|------|--------------------|

POST-BID PROCEDURES

- 1.0 DOCUMENT ADDRESSES
 - A. Notice of Intent to Award.
 - B. Monitoring Authority
 - C. Requirements of Bidder.
 - D. Failure of Bidder to comply with requirements.
 - E. Notice to Proceed.
- 2.0 NOTICE OF INTENT TO AWARD
 - A. The City will provide written Notice of Intent to Award to Low Bidder.
- 3.0 DEFINITIONS
 - A. The "Monitoring Authority" for this Project is:

Houston Airport System
Office of Business Opportunity
Contract Compliance Section
18600 Lee Road, Suite 131
Humble, Texas 77338

4.0 REQUIREMENTS OF BIDDER

A. Within 10 workdays of receipt of Notice of Intent to Award, Low Bidder shall execute and deliver to Humberto De La Garza, Senior Procurement Specialist (Supply Chain Management) and Monitoring Authority, for the City's approval, documents indicated by an "X" below:

| [X] | Document 00501 - Resolution of Contractor |
|-----|--|
| [X] | Document 00520 – Agreement |
| [] | Document 00570 - Revised MWSBE Participation Plan (Only submit if |
| | you have changed your MWBE participation plan from the original 00470) |
| [] | Document 00571 - Post-Bid Good Faith Efforts (Only submit if you could |
| | not meet MWBE participation goals from the 00570) |

| [] | Document 00572 - Contractor's Goal Deviation Request (Only submit if |
|-------|--|
| | you could not meet MWBE participation goals from the 00570) |
| | Document 00600 - List of Proposed Subcontractors and Suppliers |
| [X] | Document 00601 - Drug Policy Compliance Agreement |
| [] | Document 00602 - Contractor's Drug-free Workplace Policy (Contractor |
| | creates this document.) |
| [X] | Document 00604 - History of OSHA Actions and List of On-the-job Injuries |
| [X] | Document 00605 - List of Safety Impact Positions (Contractor |
| | pletes this list. Do not submit if submitting Document 00606.) |
| [] | Document 00606 - Contractor's Certification of No Safety Impact |
| | Positions (Do not submit if submitting Document 00605.) |
| [X] | Document 00607 - Certification Regarding Debarment, Suspension, and |
| | Other Responsibility Matters (For AIP Grant only) |
| [X] | Document 00608 - Contractor's Certification Regarding Non-segregated |
| | Facilities for Project Funded by AIP Grant (For AIP Grant only) |
| [] | Document 00609 – List of Nonroad Diesel Equipment (Do not need to |
| | submit if not participating in Clean Air Incentive under Document 00800 |
| | on 9.13.2) |
| | Document 00610 - Performance Bond (100% of total amount of bid) |
| [X] | Document 00611 - Statutory Payment Bond (100% of total amount of |
| | bid) |
| [X] | Document 00612 - One-year Maintenance Bond (100% of total amount |
| | of bid) |
| [] | Document 00613 - One-year Surface Correction Bond (4% of total |
| r V 1 | amount of bid) |
| | Document 00620 - Affidavit of Insurance |
| [\] | Document 00621 – City of Houston Certificate of Insurance (for |
| г 1 | guidance, see Document 00800, Article 11) |
| [] | Document 00622 - Name and Qualifications of Proposed rintendent |
| Supe | |
| [Y] | (Contractor creates this document.) Document 00628 - Affidavit of Compliance with DBE Program (For AIP |
| [\] | Grant only) |
| г 1 | Document 00629 - Affidavit for FAA Form 7460-1 |
| | Document 00630 – Agreement to comply with POP Program |
| | Document 00631 - City of Houston Pay or Play Program – List of |
| [\ | Participating Subcontractors |
| [X] | Document 00632 – EEO Certification by Material Suppliers, |
| | essional |
| | Service Providers |
| [X] | Document 00636 – Certificate of Interested Parties FORM 1295 |
| | |
| | Document 00810 – Wage Scale for Engineering Construction; Exhibit B, Certificate from Contractor Appointing Officer or Employee to Supervise |
| | Payment of Employees; Exhibit C, Certificate from Subcontractor |
| | Appointing Officer or Employee to Supervise Payment of Employees |
| | (For AIP Grant only) |



- Funded Project]; Exhibit B, Certificate from Contractor Appointing Officer or Employee to Supervise Payment of Employees; Exhibit C, Certificate from Subcontractor Appointing Officer or Employee to Supervise Payment of Employees
- B. Original forms contained in Document 00805 Equal Employment Opportunity Program Requirements:
 - 1. Original forms contained in Document 00805 Equal Employment Opportunity Program Requirements:
 - [X] EEO-3, Certification by Bidder Regarding Equal Employment Opportunity
 - [X] EEO-6, Total Work Force Composition of the Company or in lieu thereof, a copy of the latest Equal Employment Opportunity Commission's EEO-1 form (This information is required only if the Contractor has a work force of 50 or more people and the Contract is \$50,000 or more.)
 - [X] EEO-7, Company's Equal Employment Opportunity Compliance Program
 - [X] EEO-26, Certification by Proposed Subcontractor Regarding Equal Employment Opportunity

- C. Designations of Subcontractors and Suppliers, who have been selected by Bidder in Part B Schedule of Non-MWBE/PDBE/DBE/SBE Subcontractors and Suppliers of Document 00600 List of Proposed Subcontractors and Suppliers, and accepted by the City, may be changed only with prior notice and acceptance by Project Manager as provided in Conditions of the Contract.
- D. On Bidder's written request, Humberto De la Garza, Procurement Specialist may grant an extension of time, not to exceed 5 days, to furnish documents specified in Paragraphs 4.0.A and 4.0.B. If Bidder is required to resubmit documents specified in Paragraph 4.0.A or 4.0.B, Bidder shall do so within time limits provided in the request for resubmission.
- E. Designations of Subcontractors and Suppliers, who have been selected by Bidder in its Participation Plan, and accepted by the City, may be changed only with prior notice and acceptance by the Monitoring Authority as provided in Document 00808 Minority and Women-owned Business Enterprise (MWBE), Persons with Disabilities Business Enterprise (PDBE) and Small Business Enterprise (SBE)Program.

5.0 FAILURE OF BIDDER TO COMPLY WITH REQUIREMENTS

- A. Should Bidder, on receipt of Notice of Intent to Award, fail to comply with requirements of this Document 00495 within stated time, the City may declare award in default and require forfeiture of the Security Deposit.
- B. After the City's written notice of default to Low Bidder, the City may award the Contract to Bidder whose offer is the next lowest bid, and Security Deposit of Bidder in default shall be forfeited to the City in accordance with provisions of Document 00200 Instructions to Bidders.

6.0 NOTICE TO PROCEED

A. Upon the City's execution of the Agreement and delivery to Contractor, SCM will give Document 00551 - Notice to Proceed to Contractor, which establishes Date of Commencement of the Work.

RESOLUTION OF CONTRACTOR

| | ("Contractor"), |
|---|---|
| (Name of Contract | tor, e.g., "Biz. Inc.", "Biz LLP") |
| is a | |
| | imited Partnership, Limited Liability Partnership, Limited Liability Company, etc.) |
| which is bound by acts of | |
| , | nd Form of Governing Entity, e.g., "Biz Inc. Board of Directors", "Bill Smith, GP", |
| etc.) | |
| ("Governing Entity"). | |
| On the day of | , 20, the Governing Entity resolved, in |
| accordance with all documents, r | rules, and laws applicable to the Contractor, that |
| | , is authorized to act as the |
| (Contractor's Repres | sentative) |
| Contractor's Representative in all | I business transactions (initial one) conducted in |
| the State of Texas OR relate | ed to this Contract; and |
| The Governing Entity warr | rants that the above resolution (a) was entered into |
| | the Governing Entity, (b) has not been rescinded or |
| • | |
| amended, and (c) is now in full fo | |
| In authentication of the add | option of this resolution, I subscribe my name on this |
| day of, 20 | |
| | |
| | |
| (Authorized Signature for Governing Entity) | (Print or Type Name and Title of Authorized Signatory) |
| | |
| SWORN AND SUBSCRIBED be | fore me on |
| | |
| | Notary Public in and for the State of Texas |
| My Commission Expires: | |
| Expiration | Date Print or Type Name of Notary Public |

INSTRUCTIONS: Contractor must execute a Resolution of Contractor for each individual authorized to sign Contract Documents related to this Contract. Contractor may rescind Resolutions of Contractor through a written document in similar form.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II

Document 00520

AGREEMENT

| Project: | HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II |
|---------------------------|---|
| | WILLIAM P. HOBBY AIRPORT |
| Project No: | Project No. 957 |
| | |
| The City: THE CITY OF | HOUSTON, 900 Bagby Street, Houston, Texas 77002 (the "City") |
| and | |
| Contractor: | |
| | e) |
| | |
| Phone Number: | |
| E-mail Address: | |
| | |
| City Engineer, with respe | ect to Section 4.1.9 and 4.3 thru 4.5 of the General Conditions, is: |
| Eren Selcen, P.E., PMP – | HAS City Engineer, City of Houston Airport. Aviation Department, Infrastructure |
| <u>Divis</u> | sion (or his or her successor) |
| Address for Written Not | tice: 111 Standifer Street, Humble, TX 77338 |
| Phone Number: 281-23 | 3-1605 |
| Email Address: Eren.Se | |

City Engineer, City Employee designated by the Director of Department of Aviation to represent the City Engineer, with respect to all other terms of the General Conditions, is:

Roger Hebert - HAS Sr. Project Manager, City of Houston Airport, Aviation Department, Infrastructure Division (or his or her successor)

Phone Number: 832-244-3241

E-mail Address: Roger.Hebert@houstontx.gov

THE CITY AND CONTRACTOR AGREE AS FOLLOWS:

ARTICLE 1

THE WORK OF THE CONTRACT

1.1 Contractor shall perform the Work in accordance with the Contract.

ARTICLE 2

CONTRACT TIME

- 2.1 Contractor shall achieve Date of Substantial Completion within <u>One Hundred Twenty (120)</u> days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.
- 2.2 The Parties recognize that time is of the essence for this Agreement and that the City will suffer financial loss if the Work is not completed within the Contract Time. Parties also recognize delays, expense, and difficulties involved in proving in a legal or arbitration proceeding actual loss suffered by the City if the Work is not completed on time. Accordingly, instead of requiring any such proof, the Parties agree that as liquidated damages for delay (but not as a penalty), Contractor shall pay the City the amount stipulated in Document 00800 Supplementary Conditions, for each day beyond Contract Time.

ARTICLE 3

CONTRACT PRICE

- 3.1 Subject to terms of the Contract, the City will pay Contractor in current funds for Contractor's performance of the Contract, Contract Price of \$ [Original Contract Price], which includes Alternates, if any, accepted below.
- 3.2 The City accepts Alternates as follows:

ARTICLE 4 PAYMENTS

- 4.1 The City will make progress payments to Contractor as provided below and in Conditions of the Contract.
- 4.2 The Period covered by each progress payment is one calendar month ending on the <u>25th</u> day of the month.
- 4.3 The City will issue Certificates for Payment and will make progress payments on the basis of such Certificates as provided in Conditions of the Contract.
- 4.4 Final payment, constituting entire unpaid balance of Contract Price, will be made by the City to Contractor as provided in Conditions of the Contract.

ARTICLE 5

CONTRACTOR REPRESENTATIONS

- 5.1 Contractor represents:
- 5.1.1 Contractor has examined and carefully studied Contract documents and other related data identified in Bid Documents.
- 5.1.2 Contractor has visited the site and become familiar with and is satisfied as to general, local, and site conditions that may affect cost, progress, and performance of the Work.

- 5.1.3 Contractor is familiar with and is satisfied as to all federal, state, and local laws and regulations that may affect cost, progress, and performance of the Work.
- 5.1.4 Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in Contract documents and (2) reports and drawings of a hazardous environmental condition, if any, at the site which has been identified in Contract documents.
- 5.1.5 Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract to be employed by Contractor, and safety precautions and programs incident thereto.
- 5.1.6 Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for performance of the Work at Contract Price, within Contract Time, and in accordance with the Contract.
- 5.1.7 Contractor is aware of general nature of work to be performed by the City and others at the site that relates to the Work as indicated in Contract documents.
- 5.1.8 Contractor has correlated information known to Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract.
- 5.1.9 Contractor has given City Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract, and written resolution thereof by City Engineer is acceptable to Contractor.
- 5.1.10 Contract documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

ARTICLE 6

MISCELLANEOUS PROVISIONS

- 6.1 The Contract may be terminated by either Party as provided in Conditions of the Contract.
- 6.2 The Work may be suspended by the City as provided in Conditions of the Contract.

ARTICLE 7

ENUMERATION OF CONTRACT DOCUMENTS

- 7.1 The following documents are incorporated into this Agreement:
- 7.1.1 Document 00700 General Conditions.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 AGREEMENT

- 7.1.2 Document 00800 Supplementary Conditions.
- 7.1.3 General Requirements Division 01.
- 7.1.4 Technical Specs: Divisions 02 through 17 of Specifications (Division 17 Telecommunications may be substituted by the Division 27 under the CSI Masterformat 04 numbering system.)
- 7.1.5 Drawings listed in Document 00015 List of Drawings and bound separately.
- 7.1.6 Addenda [and Riders] which apply to the Contract, are as follows:

| [Addendum No. 1, dated [| | |
|--------------------------|----|----|
| Addendum No. 2, dated [| | _] |
| Addendum No. 3, dated [| | _] |
| Rider No. 1, dated [|] | |
| Rider No. 2. dated [| 11 | |

7.1.7 Other documents:

| Document No. | <u>Title</u> |
|--------------|--|
| [X] 00410B | Bid Form – Part B |
| [] 00470 | Pre-bid MWSBE Participation Plan |
| [X] 00470D | Pre-bid DBE Participation Plan for Project Funded by AIP Grant |
| [] 00471 | Pre-bid Good Faith Efforts |
| [] 00472 | Pre-bid Goal Deviation Request |
| [X] 00501 | Resolution of Corporation (if a corporation) |
| [] 00570 | Post-bid MWSBE Participation Plan |
| [] 00571 | Post-bid Good Faith Efforts |
| [] 00572 | Post-bid Goal Deviation Request |
| [X] 00607 | Contractor's Certification Regarding Debarment, Suspension for |
| | Project Funded by AIP Grant |
| [X] 00608 | Contractor's Certification Regarding Non-Segregated Facilities for |
| | Project Funded by AIP Grant |
| [X] 00610 | Performance Bond |
| [X] 00611 | Statutory Payment Bond |
| [X] 00612 | One-year Maintenance Bond |
| [] 00613 | One-year Surface Correction Bond |
| [X] 00620 | Affidavit of Insurance |
| [X] 00621 | City of Houston Certificate of Insurance |

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II

Project No. 957 AGREEMENT

| [X] | 00628 | Affidavit of Compliance with Disadvantaged Business Enterprise (DBE) |
|------|-------|--|
| | | Program for Project Funded By AIP Grant |
| [X] | 00630 | Agreement to Comply with Pay or Play Program |
| [X] | 00631 | List of Participating Subcontractors (POP-3) |
| [X] | 00801 | FAA Supplementary Conditions (for AIP Only) |
| [] | 00804 | ARRA requirements (for ARRA grants Only) |
| [X] | 00805 | EEO Program Requirements |
| [X] | 00806 | Disadvantaged Business Enterprise (DBE) Program (For AIP Only) |
| [X] | 00807 | Bidder/Contractor Requirements For Disadvantaged |
| | | Business Enterprise (DBE) Program (For AIP Only) |
| [] | 80800 | Bidder Requirements for MWSBE Program |
| [] | 00810 | Federal Wage Rate - Highway |
| [X] | 00811 | Federal Wage Rate - Building |
| [] | 00812 | Wage Rate for Engineering Heavy – Water & Sewer Line |
| [] | 00814 | Wage Rate for Engineering Heavy – Flood Control |
| [] | 00820 | Wage Rate for Engineering Construction |
| [] | 00821 | Wage Rate for Building Construction |
| [X] | 00840 | Pay or Play Program |
| [] | 00842 | Letter of Intent |
| [] | 00912 | Rider (Contractor Initials:) |
| | | |

ARTICLE 8 SIGNATURES

8.1 This Agreement is executed in two original copies and is effective as of the date of countersignature by City Controller.

| CONTRACTOR: | (If Joint Venture) | |
|----------------------------|--------------------|--|
| Ву: | Ву: | |
| Name: | | |
| Title: | | |
| Date: | | |
| Tax Identification Number: | | |

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II *Project No.* 957 **AGREEMENT**

| CITY OF HOUSTON, TEXAS | Tax Identification Number: |
|---|----------------------------|
| APPROVED: | |
| By: | |
| By: Director, Department of Aviation | SIGNED: |
| | By: |
| | COUNTERSIGNED: |
| ATTEST/SEAL: | By:City Controller |
| By:City Secretary | Date Countersigned: |
| | |
| 8.2 This Contract and Ordinance have been reviewed and have been found to meet established Legal Departre the content of these documents. | |
| Legal Assistant | Date |

LIST OF PROPOSED SUBCONTRACTORS AND SUPPLIERS

| PROJECT NAME: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II ORIG. CONTRACT PRICE: \$ | | | |
|---|--|---------------|-------------------------------|
| NAICS (6 digits) | SUBCONTRACTOR OR SUPPLIER (INCLUDE "MWSBE", "PDBE", "DBE", OR "HUB" DESIGNATION) ² | ADDRESS | SCOPE OF WORK ³ |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| NOTES: 1. RETURN FOR ALL PROJECTS AS REQUIRED IN DOCUMENT 00800 – SUPPLEMENTARY CONDITIONS. RETURN WITHIN THE SPECIFIED NUMBER OF DAYS AFTER RECEIPT OF NOTICE OF INTENT TO AWARD 2. DESIGNATE FIRMS CERTIFIED BY THE CITY OFFICE OF BUSINESS OPPORTUNITY ON THIS FORM. 3. DESCRIBE THE WORK TO BE PERFORMED, FOR WHICH THE FIRM IS CERTIFIED, SUCH AS "PAVING", "ELECTRICAL", ETC. 4. CONTRACTOR SHALL EXECUTE CONTRACTS WITH APPROVED SUBCONTRACTORS AND SUPPLIERS WITHIN 30 DAYS AFTER THE DATE OF THE NOTICE TO PROCEED. COPIES OF CONTRACTS WITH DESIGNNATED FIRMS MUST BE SENT TO THE OFFICE OF BUSINESS OPPORTUNITY. | | | |
| SIGNATURE | E: | COMPANY NAME: | |
| NAME: | (Type or Print) | TITLE: | |

PROJECT NAME: ____ DATE OF REPORT: _

Document 00600

Continuation Page

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II

| PROJECT NO.: 957 | | | |
|----------------------|--|---------------|-------------------------------|
| NAICS (6 digits) | SUBCONTRACTOR OR SUPPLIER (INCLUDE "MWSBE", "PDBE", "DBE", OR "HUB" DESIGNATION) ² | ADDRESS | SCOPE OF WORK ³ |
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| | | | |
| SIGNATURE: | | COMPANY NAME: | |
| NAME:(Type or Print) | | TITLE: | |

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957

DRUG POLICY COMPLIANCE AGREEMENT

Document 00601

DRUG POLICY COMPLIANCE AGREEMENT

| | l,, | , | |
|---|--|--|--|
| | Name | Title | |
| of | | | |
| contract that Co to desi | uthority to bind Contractor with respect to its Bid, cts it may enter into with the City of Houston; and ontractor is aware of and by the time the Contract gnate appropriate safety impact positions for come following requirements before the City issues a | that by making this Agreement, I affirm is awarded will be bound by and agree pany employee positions, and to comply | |
| 1. | Develop and implement a written Drug Free Worprocedures for Contractor that meet the criteria a Mayor's Amended Policy on Drug Detection and the Mayor's Drug Detection and Deterrence Proc No. 1-31). | and requirements established by the Deterrence (Mayor's Drug Policy) and | |
| 2. | Obtain a facility to collect urine samples consiste (HHS) guidelines and an HHS-certified drug-test | | |
| 3. | Monitor and keep records of drug tests given and of Houston, provide confirmation of such testing | | |
| 4. | Submit semi-annual Drug Policy Compliance De | clarations. | |
| Execut | I affirm on behalf of Contractor that full compliance with the Mayor's Drug Policy and Executive Order No. 1-31 is a material condition of the Contract with the City of Houston, | | |
| I further acknowledge that falsification, failure to comply with or failure to timely submit declarations or documentation in compliance with the Mayor's Drug Policy or Executive Order No. 1-31 will be considered a breach of the Contract with the City and may result in non-award or termination of the Contract by the City. | | | |
| | | | |
| | Contractor | Title | |
| | Signature | Date | |

END OF DOCUMENT

(Attachment A)

00601**-**1 02-01-2004

HISTORY OF OSHA ACTIONS AND LIST OF ON-THE-JOB INJURIES

Prior to award of the Contract, Low Bidder will be required to file the following with the City:

- 1. A history of all OSHA actions, advisories, etc., Contractor has received on all jobs worked in any capacity, prime or subcontractor. The history shall be for the two-year period preceding the Bid Date of the Project.
- 2. A list of all on-the-job injuries, accidents, and fatalities suffered by any present or former employees of Contractor during the same two-year period.
- 3. If less than the two-year period, give the date Contractor started doing business.

This information must be submitted to the City within the time period stated in Document 00498 - Notice of Intent to Award. An officer of the company must certify in a notarized statement that the information submitted is true and correct.

LIST OF SAFETY IMPACT POSITIONS

Employee Classification

Number of Employees

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

Contractor certifies to the best of its knowledge and belief that it and its principals:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal, State, or local department or agency;
- 2. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph 2 of this certification; and
- Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Section 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to five years, or both.

| Company: | |
|---|-------------------------------------|
| Typed Name & Title of Authorized Representative | _ |
| Signature of Authorized Representative | Date |
| ☐ I am unable to certify the above stat | ements. My explanation is attached. |

CONTRACTOR'S CERTIFICATION REGARDING NON-SEGREGATED FACILITIES FOR PROJECT FUNDED BY AIP GRANT

NOTICE TO PROSPECTIVE FEDERALLY ASSISTED CONSTRUCTION CONTRACTORS (41 CFR 60-1.8)

- (1) A Certification of Non-segregated Facilities must be submitted prior to the award of a federally assisted construction contract exceeding \$10,000 which is not exempt from the provisions of the equal opportunity clause.
- (2) Contractors receiving federally assisted construction contract awards exceeding \$10,000 which are not exempt from provisions of the equal opportunity clause shall forward the following notice to prospective subcontractors for supplies and construction contracts where subcontracts exceed \$10,000 and are not exempt from the provisions of the equal opportunity clause.

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENTS FOR CERTIFICATION OF NON-SEGREGATED FACILITIES

- (1) A Certification of Non-segregated Facilities must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the equal opportunity clause.
- (2) Contractors receiving subcontract awards exceeding \$10,000 which are not exempt from provisions of the equal opportunity clause shall forward this notice to prospective subcontractors for supplies and construction contracts where subcontracts exceed \$10,000 and are not exempt from provisions of the equal opportunity clause.

CERTIFICATION OF NONSEGREGATED FACILITIES

The federally assisted construction contractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally assisted construction contractor certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally assisted construction contractor agrees that a breach of this certification is a violation of the equal opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin, because of habit, local custom, or any other reason. The federally assisted construction contractor agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the equal opportunity clause, and that he will retain such certifications in his files.

NOTICE TO PROSPECTIVE CONTRACTORS OF REQUIREMENT FOR CERTIFICATION OF NON-SEGREGATED FACILITIES

Certification of Non-segregated Facilities must be submitted prior to the award of a contract or subcontract exceeding \$10,000 which is not exempt from provisions of the Equal Opportunity Clause.

Certification - The information above is true and complete to the best of my knowledge and belief.

| (Printed or typed Name of Signatory) | Title |
|--------------------------------------|----------------------------------|
| Signature | Date |
| Contractor's Firm Name | Contractor's IRS Employer ID No. |

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

PERFORMANCE BOND

| THAT WE, | , as Principal, |
|---|-----------------|
| (the "Contractor"), and the other subscriber hereto, | |
| as Surety, do hereby acknowledge ourselves to be held and firmly bound to Houston (the "City"), a municipal corporation, in the penal sum of \$ | for the |
| THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT: | |
| WHEREAS , the Contractor has on or about this day executed a Corwriting with the City for | ntract in |
| | |
| all of such work to be done as set out in full in said Contract documents the | rein referred |

all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall faithfully and strictly perform the Contract in all its terms, provisions, and stipulations in accordance with its true meaning and effect, and in accordance with the Contract documents referred to therein and shall comply strictly with each and every provision of the Contract and with this Bond, then this obligation shall become null and void and shall have no further force and effect; otherwise the same is to remain in full force and effect. Should the Contractor fail to faithfully and strictly perform the Contract in all its terms, including but not limited to the indemnifications thereunder, the Surety shall be liable for all damages, losses, expenses and liabilities that the City may suffer in consequence thereof, as more fully set forth herein.

It is further understood and agreed that the Surety does hereby relieve the City or its representatives from the exercise of any diligence whatever in securing compliance on the part of the Contractor with the terms of the Contract, and the Surety agrees that it shall be bound to take notice of and shall be held to have knowledge of all acts or omissions of the Contractor in all matters pertaining to the Contract. The Surety understands and agrees that the provision in the Contract that the City will retain certain amounts due the Contractor until the expiration of 30 days from the acceptance of the Work is intended for the City's benefit, and the City will have the right to pay or withhold such retained amounts or any other amount owing under the Contract without changing or affecting the liability of the Surety hereon in any degree.

It is further expressly agreed by Surety that the City or its representatives are at liberty at any time, without notice to the Surety, to make any change in the Contract documents and in the Work to be done thereunder, as provided in the Contract, and in

the terms and conditions thereof, or to make any change in, addition to, or deduction from the Work to be done thereunder; and that such changes, if made, shall not in any way vitiate the obligation in this Bond and undertaking or release the Surety therefrom.

It is further expressly agreed and understood that the Contractor and Surety will fully indemnify and save harmless the City from any liability, loss, cost, expense, or damage arising out of Contractor's performance of the Contract.

If the City gives Surety notice of Contractor's default, Surety shall, within 45 days, take one of the following actions:

- 1. Arrange for Contractor, with consent of the City, to perform and complete the Contract; or
- 2. Take over and assume completion of the Contract itself, through its agents or through independent contractors, and become entitled to the payment of the balance of the Contract Price.

If the Surety fails to take either of the actions set out above, it shall be deemed to have waived its right to perform and complete the Contract and receive payment of the balance of the Contract Price and the City shall be entitled to enforce any remedies available at law, including but not limited to completing the Contract itself and recovering any cost in excess of the Original Contract Price from the Surety.

This Bond and all obligations created hereunder shall be performable in Harris County, Texas. This Bond is given in compliance with the provisions of Chapter 2253, Texas Government Code, as amended, which is incorporated herein by this reference.

Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other Party at the address prescribed in the Contract documents, or at such other address as the receiving party may hereafter prescribe by written notice to the sending party.

Any party wishing to file a claim may call the Texas Department of Insurance at <u>1-800-252-3439</u> to obtain Surety's address for claims processing.

Legal Assistant

current Power of Attorney. ATTEST, SEAL: (if a corporation) WITNESS: (if not a corporation) Name of Contractor By: By: Name: Name: Title: Title: Date: ATTEST/SURETY WITNESS: Full Name of Surety (SEAL) Address of Surety for Notice Telephone Number of Surety By: By: _ Name: Name: Title: Attorney-in-Fact Title: Date: Date: This Ordinance or Contract has been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed

this instrument on the respective dates written below their signatures and have attached

END OF DOCUMENT

Date

Document 00611

STATUTORY PAYMENT BOND

| THAT WE, | , as Principal, |
|---|--|
| THAT WE, | for the payment of the form of the form of the form of the said the form of th |
| THE CONDITIONS OF THIS OBLIGATION ARE | SUCH THAT: |
| WHEREAS, the Contractor has on or about with the City of Houston for | |
| all of such work to be done as set out in full in said and adopted by the City Council, all of which are mompletely as if set out in full herein; | |
| NOW, THEREFORE , if the said Contracto and materials to him or a Subcontractor in the pro Contract, then, this obligation shall be void; other and effect; | secution of the Work provided for in the |

PROVIDED HOWEVER, that this Bond is executed pursuant to the provisions of Chapter 2253, Texas Government Code, as amended, and all liabilities on this Bond shall be determined in accordance with the provisions of said Article to the same extent as if it were copied at length herein.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

Any party wishing to file a claim may obtain Surety's address for claims processing on file with the Texas Department of Insurance by calling <u>1-800-252-3439</u>.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

STATUTORY PAYMENT BOND

| ATTEST, SEAL: (if a corporation) WITNESS: (if not a corporation) | Name of Contractor |
|--|------------------------------|
| Ву: | By: |
| Name: | Name: |
| Title: | Title: |
| | Date: |
| ATTEST/SURETY WITNESS: | |
| (SEAL) | Full Name of Surety |
| | Address of Surety for Notice |
| | |
| | Telephone Number of Surety |
| By: | By: |
| Name: | Name: |
| Title: | Title: Attorney-in-Fact |
| Date: | Date: |
| | |
| This Ordinance or Contract has been reviewed assistant and have been found to meet establi | |
| Legal Department has not reviewed the conter | |
| | 5. |
| Legal Assistant | Date |

END OF DOCUMENT

Document 00612

ONE-YEAR MAINTENANCE BOND

| THAT WE, | , as Principal, |
|---|---|
| hereinafter called Contractor, and the other | r subscriber hereto,, as Principal, |
| | ves to be held and firmly bound to the City of |
| mouston, a municipal corporation, in the su which sum well and truly to be made to the | um of \$, for the payment of e City of Houston and its successors, the said |
| | lves, their heirs, executors, administrators, |
| successors, jointly and severally. | voc, then home, executore, darminetations, |
| THE CONDITIONS OF THIS OBLIGATION | N ARE SUCH THAT: |
| WHEREAS, the Contractor has on o with the City of Houston for | or about this day executed a Contract in writing |
| all of such work to be done as set out in full | , in said Contract documents therein referred to |
| | n are made a part of this instrument as fully and |
| NOW THEREFORE, if the said Co | ontractor shall comply with the provisions of |
| | s, and correct work not in accordance with the |
| | established one-year period, then this obligation |
| | no further force and effect; otherwise, the same |
| is to remain in full force and effect. | |
| | inder shall be in writing and shall be deemed er, on the third day following deposit in a United |
| • | cle, with proper postage affixed (certified mail, |
| · | the respective other party at the address |
| prescribed in the Contract documents, or at hereafter prescribe by written notice to the | such other address as the receiving party may sending party. |
| IN WITNESS THEREOF the said C | Contractor and Surety have signed and sealed |
| | tten below their signatures and have attached |
| ATTEST, SEAL: (if a corporation) | |
| WITNESS: (if not a corporation) | Name of Contractor |
| Ву: | Ву: |
| Name: | Name: |
| Title: | Title: |
| | Date: |

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

ONE-YEAR MAINTENANCE BOND

| ATTEST/SURETY WITNESS: (SEAL) | Full Name of Surety Address of Surety for Notice | | | |
|--|---|--|--|--|
| By: | Telephone Number of Surety | | | |
| Name: Title: Date: | By: Name: Title: Attorney-in-Fact Date: | | | |
| This Ordinance or Contract has been review assistant and have been found to meet esta Legal Department has not reviewed the con | ablished Legal Department criteria. The | | | |
| Legal Assistant | Date | | | |

END OF DOCUMENT

Document 00620

AFFIDAVIT OF INSURANCE

| BEFORE ME, the undersigned author | ority, on this day personally appeared |
|--|---|
| Affiant | ,who |
| | |
| being by me duly sworn on his oath stated | that he is, of |
| | Tide |
| Contractor's Compa | ny Name |
| the Contractor named and referred to with | hin the Contract documents; that he is fully |
| competent and authorized to give this affid | lavit and that the attached original insurance |
| certificate truly and accurately reflects the in | surance coverage that is now available and will |
| be available during the term of the Contract | t. |
| | |
| | Affiant's Signature |
| SWORN AND SUBSCRIBED before me or | 1 |
| | Date |
| | Notary Public in and for the State of TEXAS |
| | Print or type Notary Public name |
| | My Commission Expires: |

END OF DOCUMENT



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). PRODUCER PHONE (A/C, No, Ext): ADDRESS: INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: INSURED INSURER B: INSURER C: INSURER D : INSURER E : INSURER F : **COVERAGES** CERTIFICATE NUMBER: REVISION NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. ADDL SUBR INSR WVD TYPE OF INSURANCE LIMITS POLICY NUMBER GENERAL LIABILITY EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) COMMERCIAL GENERAL LIABILITY \$ CLAIMS-MADE OCCUR MED EXP (Any one person) \$ PERSONAL & ADV INJURY GENERAL AGGREGATE GEN'L AGGREGATE LIMIT APPLIES PER: PRODUCTS - COMPIOP AGG \$ POLICY OMBINED SINGLE LIMIT AUTOMOBILE LIABILITY (Ea accident) BODILY INJURY (Per person) ANY AUTO SCHEDULED AUTOS NON-OWNED AUTOS ALL OWNED AUTOS BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) HIRED AUTOS \$ UMBRELLA LIAB EACH OCCURRENCE \$ OCCUR EXCESS LIAB CLAIMS-MADE AGGREGATE DED RETENTION \$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY
ANY PROPRIETOR/PARTNER/EXECUTIVE E.L. EACH ACCIDENT 2 OFFICE/MEMBER EXCLUDED? (Mandatory in NH) E.L. DISEASE - EA EMPLOYEE \$ If yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required) CANCELLATION CERTIFICATE HOLDER SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

Document 00628

AFFIDAVIT OF COMPLIANCE WITH DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM FOR PROJECT FUNDED BY AIP GRANT

BEFORE ME, the undersigned authority, on this day personally appeared Affiant being by me duly sworn on his oath stated that he is _____ the Contractor named and referred to within the Contract documents; that he is fully competent and authorized to give this affidavit and that the Contract is in compliance with the Disadvantaged Business Enterprise Program of the City and has done all that is required by the Contract documents, the Disadvantaged Business Enterprise Program, and pursuant to Chapter 15, Code of Ordinances, City of Houston, §15.16 et seq. Affiant's Signature SWORN AND SUBSCRIBED before me on this day of ______ , 20 . Notary Public in and for the State of TEXAS Print or Type Notary Public Name My Commission Expires: ______Expiration Date

END OF DOCUMENT



Please Print Name & Title

City of Houston Pay or Play Program Certification of Compliance



| | | USINESS OF |
|---|--|--|
| Prime Contractor: Subcontractor: | | |
| Address: | | |
| Outline Number:Contract Am | ount: \$ | |
| Project Name: [Legal Project Name] | | |
| Contracting Department | | |
| Contracting Department: | | |
| In accordance with the City of Houston Pay or Play Program authori. Order 1-7, Prime/Subcontractor agrees to abide by the terms of this F contractors for contracts subject to the program. You must agree eith employees. If selecting BOTH, the Contractor/Subcontractor may Pay Play on behalf of the remaining covered employees. | Program. This certificer to PAY, PLAY or | cation is required of all BOTH for all covered |
| The Prime/Subcontractor will comply with all provisions of the Pay or Pall information and reports requested to determine compliance of the Pa 7 for the terms of the Pay or Play program). | | |
| The Prime/Subcontractor may agree to "Pay" \$1.00 per hour for work p contract with the City. If independent contract labor is utilized the Contract worked by the independent contract laborer and pay \$1.00 per hour for | actor/Subcontractor | |
| The Prime/Subcontractor may agree to "Play" by providing health benefits must meet the following criteria: The employer contributes no less than 75% of the total premium co toward the total premium cost. The covered employee contributes, if any amount, no greater than 2 | sts per covered emp | loyee per month |
| Please select whether you choose to: | Play Bot | h |
| The Prime/Subcontractor will file compliance reports with the City, which subject to the program, in the form and to the extent requested by the adshall contain information including, but not limited to, documentation employee work records. Note: The contractor is responsible to the City for complian subcontractors. | ministering departme showing employee | ent. Compliance reports health coverage and |
| Please indicate the estimated number of: | PRIME | SUB |
| Total Employees on City Job | | |
| Covered Employees | | |
| Non-Covered Employees | | |
| Exempt Employees | | |
| I hereby certify that the above information is true and correct. | | |
| Please Sign | Date | |

Form POP-2 Document 00630 OBO - 01/23/2020

City of Houston Pay or Play Program Participating Subcontractors



| Prime Contractor: | | | | POP Contact Person: | | | | | | |
|---|-------------------------|--------------------------|--------------------|---------------------|------------------------------|-----------------|---|---|--|---|
| Project Number/Description: | | | | Address: | | | | | | |
| | | | | | | | | | | |
| | | | | | | | Email: | | | |
| Nata Indiala All aukaantaa (a | | | | | | | Phone: | | | |
| Note: Include ALL subcontractors (u | ise additioi | nai form if neces | ssary) | 01 | . 0 | | | | | |
| | 1 | ı | | Cnec | k One | | | | | |
| Subcontractor Name | Supplier Y/N? | Amount of Subcontract | Pay | Play | Both (Pay and Play) | N/A | Contact Person | Phone | Email Address | Mailing Address |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| *If the above information is found to be requirements from the inception of the | | | | | | 00.00 | | | | |
| I hereby solemnly affirm, certify and con labor or any payments in relation to the contract value includes all the costs rela- contracted work and re-submit POP-3 we the program requirements. | contracted ated to work | work and no sep | arate p act. Th | oaymer e conti | nt or co | ntract nd su | has been made for the sub-contractor(s) agree to in | ub-contract under con nform the Office of Bu | ntract no usiness Opportunity of any re | The above sub- elated cost(s) added to the |
| Contractor Authorized Representative & | & Title | | Date | | | | | | | |

Form POP-3 Document 00631 OBO - 01/23/2020

OFFICE OF BUSINESS OPPORTUNITY CERTIFICATION BY MATERIAL SUPPLIERS

Document 00632

CERTIFICATION BY PROPOSED MATERIAL SUPPLIERS, LESSORS, AND PROFESSIONAL SERVICE PROVIDERS REGARDING EQUAL EMPLOYMENT OPPORTUNITY

| Company Name: _ | (Supplier, Lessor, Professional Service Provider) \$ (Amount of Contract) |
|--|--|
| Company Address | : |
| Company Telepho | ne Number: Fax: |
| E-mail Address: | |
| Web Page/URL Ad | ddress: |
| Company Tax Ider | ntification Number: |
| Project Name & No | D.: HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II, PN 957 |
| Materials/Services | Provided: |
| Service Provider re Ordinance. This c | Chapter 15 of the City of Houston's Code of Ordinances, Supplier/Lessor/Professional epresents to be an equal opportunity employer and agrees to abide by the terms of the tertification is required of all Suppliers/Lessors/Professional Service Providers providing this project with agreements \$50,000 or more. |
| []Yes[]No | Supplier agrees not to discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, or age. |
| []Yes[]No | Supplier agrees that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin, or age. |
| []Yes[]No | Supplier will comply with all provisions of Executive Order No. 11246 and rules, regulations and applicable orders of the Department of Labor or other Federal Agency responsible for enforcement of applicable equal opportunity and affirmative action provisions and will likewise furnish all information and reports required by the Mayor or Contract Compliance Officers for the purpose of investigation to ascertain and effect compliance with the City of Houston's Office of Business of Opportunity. |
| []Yes[]No | The Supplier shall file and cause their sub-tier contractors to file compliance reports with the City in the form and to the extent as may be prescribed by the Mayor or Contract Compliance Officers. Compliance reports filed at such times as directed shall contain information including, but not limited to, the practices, policies, programs, and employment policies. |
| I hereby certify that | t the above information is true and correct. |
| COMPANY OFFIC | ER (Signature) DATE |
| NAME AND TITLE | (Print or type) END OF DOCUMENT |

Document 00636

Certificate of Interested Parties

In accordance with Texas Gov't Code §2252.908, the successful bidder must complete Form 1295, Certificate of Interested Parties. Form 1295 is available for downloading on the Texas Ethics Commission's (TEC) website: https://www.ethics.state.tx.us/forms/1295.pdf.

The successful bidder must use the application to enter the required information on Form 1295 and print a copy of the completed form, which will include a certification of filing that will contain a unique certification number.

No later than 30 days after the contract's effective date, the City will upload the successful bidder's completed Form 1295. The TEC will post the Contractor's completed Form 1295 within seven business days of receipt.

For your reference, Form 1295 is attached as part of this document.

END OF DOCUMENT

| CERTIFICATE OF INTE | RESTED PARTIES | | | FORM 1295 |
|--|---|---------------------|--|-------------------------|
| Complete Nos. 1 - 4 and 6 if the Complete Nos. 1, 2, 3, 5, and 6 | OFFI | DE USE ONLY | | |
| Name of business entity filing form, entity's place of business. | ness | | | |
| Name of governmental entity or stat which the form is being filed. | e agency that is a party to the contract fo | • | | |
| Provide the Identification number us and provide a description of the good | ed by the governmental entity or state ag ds or services to be provided under the co | ency to ontract, | track or ider | ntify the contract, |
| * Name of Interested Party | City, State, Country | Natur | e of Interest | (check applicable) |
| | (place of business) | Cor | ntrolling | Intermediary |
| | | | | · |
| | | | | |
| | | | | |
| | | | —————————————————————————————————————— | |
| | 100 | ···· | | |
| | | | | |
| | | | | |
| | | | | |
| 5 Check only if there is NO interested P | arty. | ····· | | |
| AFFIDAVIT | I swear, or affirm, under penalty of perjury, | that the | above disclosu | re is true and correct. |
| | | | | |
| | Signature of authorized ag | ent of cor | tracting busine | ss entity |
| AFFIX NOTARY STAMP / SEAL ABOVE | | | | |
| Sworn to and subscribed before me, by the sal | fd | | , this the | day |
| , to certify | ,on, williess my hand and seal of office. | | | |
| Signature of officer administering cath | Printed name of officer administering path | | Title of officer | administering oath |
| ADD | ADDITIONAL PAGES AS NECES | SARY | | |

Document 00700

GENERAL CONDITIONS

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ARTICLE 1 - GENERAL PROVISIONS

1.1 DEFINITIONS

- 1.1.1 Agreement: Document signed by the Parties and binding the Parties, containing the name of Contractor, title and location of the Project, Original Contract Time, Original Contract Price, enumeration of documents included in the Contract, and other provisions.
- 1.1.2 Bonds: Performance Bond, Payment Bond, Maintenance Bond, and other Surety instruments executed by Surety. When in singular form, refers to individual instrument.
- 1.1.3 Business Enterprise: Any business entity registered in a program authorized by 49 C.F.R. § 26 (where applicable) or City Code of Ordinances, Chapter 15, Article II, relating to Equal Opportunity Employment and taking affirmative action to ensure that applicants are employed and employees are treated without regard to race, religion, color, sex, national origin, or age. The term "Business Enterprise" may include Disadvantaged Business Enterprise ("DBE"), Minority Business Enterprise ("MBE"), Woman Business Enterprise ("WBE"), Small Business Enterprise ("SBE"), Person with Disability Enterprise ("PDBE"), and any Historically Underutilized Business ("HUB").
- 1.1.4 Business Enterprise Policy: Contract documents and applicable policies relating to Business Enterprises and authorized under 49 C.F.R. § 26 or City Code of Ordinances, Chapter 15, Article V.
- 1.1.5 Cash Allowance: An estimated sum of money to be used only for a limited class of expenditures such as utility relocation costs, fees for special licenses or permits, or other "pass-through" costs that would be the same for any contractor. Cash Allowances may not be used to purchase goods or services that are not specified in the Contract. The unspecified items must be purchased according to the terms of Article 7.
- 1.1.6 Change Order: Written instrument prepared by the City and signed by City Engineer and Contractor, specifying the following:
 - 1.1.6.1 a change in the Work;
 - 1.1.6.2 a change in Contract Price, if any; and
 - 1.1.6.3 a change in Contract Time, if any.

The value of a Change Order is the net amount after offsetting all deductions against all additions effected by the Change Order.

- 1.1.7 City: The City of Houston, a home rule municipality located principally within Harris County, Texas, including its successors and its authorized representatives.
- 1.1.8 City Engineer: The City Engineer, or the City employee representing the City Engineer, designated in the Agreement and authorized to represent the City, or successors.
- 1.1.9 Claim: Written demand or written assertion by one Party seeking adjustment of the Contract, payment of money, extension of time, or other relief under the Contract and includes, but is not limited to, claims for materials, labor, equipment, delay, changes, adjustments, substitutions, fees and third party claims. The Party making the Claim has the responsibility to substantiate the Claim.
- 1.1.10 Conditions of the Contract: General Conditions and Supplementary Conditions.
- 1.1.11 Construction Manager: Person or firm under contract with the City as its authorized representative to oversee and administer construction of the Work, and who may perform the role of Project Manager and Inspector, as designated by City Engineer in writing.
- 1.1.12 Contract: The Agreement; documents enumerated in and incorporated into the Agreement, Modifications, and amendments.
- 1.1.13 Contract Price: The monetary amount stated in the Agreement adjusted by Change Order, and increases or decreases in Unit Price Quantities, if any.
- 1.1.14 Contract Time: The number of days stated in the Agreement to substantially complete the Work, plus days authorized by Change Order.
- 1.1.15 Contract Year: a twelve (12) month period during the term of the contract commencing on the Effective Date of this Agreement and each anniversary thereof.
- 1.1.16 Contractor: Person or firm identified as such in the Agreement including its successors and its authorized representatives.
- 1.1.17 Date of Commencement of the Work: Date established in Notice to Proceed on which Contract Time will commence. This date will not be changed by failure of Contractor, or persons or entities for whom Contractor is responsible, to act.

- 1.1.18 Date of Substantial Completion: Date that construction, or portion thereof designated by City Engineer, is certified by City Engineer to be substantially complete.
- 1.1.19 Design Consultant: Person or firm, under contract with the City, to provide professional services during construction and its authorized representatives. If a Design Consultant is not employed for services during construction, Project Manager will perform duties of Design Consultant designated in the Contract in addition to usual duties of Project Manager.
- 1.1.20 Drawings: Graphic and pictorial portions of the Contract that define the character and scope of the Work.
- 1.1.21 Extra Unit Price: Unit Prices, which may be required for completion of the Work. These Unit Prices and Unit Price Quantities are in the Contract and are included in Original Contract Price.
- 1.1.22 Furnish: To supply, pay for, deliver to the site, and unload.
- 1.1.23 General Requirements: The sections of Division 01 Specifications that specify administrative and procedural requirements and temporary facilities required for the Work.
- 1.1.24 Inspector: City's employee or agent authorized to assist with inspection of the Work.
- 1.1.25 Install: Unpack, assemble, erect, place, anchor, apply, work to dimension, finish, cure, clean, protect, and similar operations.
- 1.1.26 Legal Holiday: Day established by the City Council as a holiday.
- 1.1.27 Major Unit Price Work: An individual Unit Price item,
 - 1.1.27.1 whose value is greater than five percent of Original Contract Price,
 - 1.1.27.2 whose value becomes greater than five percent of Original Contract Price as the result of an increase in quantity, or
 - 1.1.27.3 whose value is \$100,000, whichever is least.
- 1.1.28 Mayor's Office of Business Opportunity: any reference to, or use of, the "Office of Affirmative Action" shall mean the Mayor's Office of Business Opportunity, or any such future name to which it is changed.

- 1.1.29 Minor Change in the Work: A written change in the Work, ordered by City Engineer, that does not change Contract Price or Contract Time, and that is consistent with the general scope of the Contract.
- 1.1.30 Modification: Change Order, Work Change Directive, or Minor Change in the Work.
- 1.1.31 Notice of Noncompliance: A written notice by City Engineer to Contractor regarding defective or nonconforming work that does not meet the Contract requirements, and that establishes a time by which Contractor shall correct the defective or nonconforming work.
- 1.1.32 Notice to Proceed: A written notice by City Engineer to Contractor establishing Date of Commencement of the Work.
- 1.1.33 Original Contract Price: The monetary amount originally stated in the Agreement.
- *1.1.34 Parties:* Contractor and the City. When in singular form, refers to Contractor or the City.
- 1.1.35 Pollutant: Any materials subject to the Texas Solid Waste Disposal Act.
- 1.1.36 Pollutant Facility: Any facility regulated by the State of Texas to protect the health and environment from contamination by Pollutants, including without limitation, landfills, oil and gas production and storage facilities, wastewater facilities, waste injection wells, and storage tanks (including drums).
- 1.1.37 *Product:* Materials, equipment, or systems incorporated into the Work or to be incorporated into the Work.
- 1.1.38 Product Data: Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Contractor to illustrate a Product.
- 1.1.39 Project: Total construction, of which the Work performed under the Contract may be the whole or a part, and which may include construction by the City or by separate contractors.
- 1.1.40 Project Manager: City Engineer's authorized representative for administration of the Work. Titles used within the City's departments may be different than those used in this definition.
- 1.1.41 Provide: Furnish and Install, complete, ready for intended use.

- 1.1.42 Samples: Physical examples that illustrate Products, or workmanship, and establish standards by which the Work is judged.
- 1.1.43 Shop Drawings: Drawings, diagrams, schedules, and other data specially prepared for the Work by Contractor, Subcontractor or Supplier, to illustrate a portion of the Work.
- 1.1.44 Specifications: Divisions 01 through 16 of the documents that are incorporated into the Agreement, consisting of written General Requirements and requirements for Products, standards, and workmanship for the Work, and performance of related services.
- 1.1.45 Stipulated Price: Single lump sum amount stated in the Contract for completion of the Work, or for designated portion of the Work.
- 1.1.46 Subcontractor: Person or firm that has direct or indirect contract with Contractor or with another Subcontractor to perform a portion of the Work and its authorized representatives.
- 1.1.47 Superintendent: Employee of Contractor having authority and responsibility to act for and represent Contractor.
- 1.1.48 Supplementary Conditions: Part of Conditions of the Contract that amends or supplements General Conditions.
- 1.1.49 Supplier: Manufacturer, distributor, materialman, or vendor having a direct agreement with Contractor or Subcontractor for Products, or services and its authorized representatives.
- 1.1.50 Surety: Corporate entity that is bound by one or more Bonds, and is responsible for completion of the Work, including the correction period, and for payment of debts incurred in fulfilling the Contract. Surety shall include co-surety or reinsurer, as applicable.
- 1.1.51 Underground Facilities: Pipes, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments and encasements containing such facilities that exist below ground level.
- 1.1.52 Unit Price: An amount stated in the Contract for an individual, measurable item of work, which, when multiplied by actual quantity incorporated into the Work, amounts to full compensation for completion of the item, including work incidental to it.

- 1.1.53 Unit Price Quantities: Quantities indicated in the Contract that are approximations made by the City for contracting purposes.
- 1.1.54 Work: Entire construction required by the Contract, including all labor, Products, and services provided by Contractor to fulfill Contractor's obligations. The Work may constitute the whole or a portion of the Project.
- 1.1.55 Work Change Directive: A written change in the Work, ordered by City Engineer, that is within the general scope of the Contract and consisting of additions, deletions, or other revisions. A Work Change Directive will state proposed basis for adjustment, if any, in Contract Price or Contract Time, or both.

1.2 EXECUTION, CORRELATION, AND INTENT

- 1.2.1 Execution of the Contract by Contractor is conclusive that Contractor has visited the Work site, become familiar with local conditions under which the Work will be performed, and fully informed itself as to conditions and matters which can affect the Work or costs. Contractor further agrees that it has carefully correlated personal observations with requirements of the Contract.
- 1.2.2 The Contract and Modifications have been read and carefully considered by Contractor, who understands and agrees to their sufficiency for the Work. The Contract may not be more strongly construed against the City than against Contractor and Surety.
- 1.2.3 Contractor shall include all items necessary for proper execution and completion of the Work.
- 1.2.4 Reference to standard specifications, manuals, or codes of a technical society, organization, or association, or to laws or regulations of a governmental authority, whether specific or implied, mean the latest edition in effect as of date of receipt of bids, except as may be otherwise specifically stated in the Contract.
- 1.2.5 No provision of any referenced standard, specification, or manual changes the duties and responsibilities of the City, City Engineer, Contractor, or Design Consultant from those set forth in the Contract. Nor do these provisions assign to Design Consultant any duty or authority to supervise or direct performance of the Work or any duty or authority to undertake any actions contrary to provisions of the Contract.

- 1.2.6 Organization of Specifications into divisions, sections, and articles and arrangement of Drawings does not control Contractor in dividing the Work among Subcontractors or in establishing the extent of work to be performed by any trade.
- 1.2.7 Unless otherwise defined in the Contract, words which have well-known construction industry technical meanings are used in the Contract in accordance with these recognized meanings.

1.3 OWNERSHIP AND USE OF DOCUMENTS

- 1.3.1 Drawings, Specifications, and other documents prepared by the City or by Design Consultant are instruments of service through which the Work to be executed by Contractor is described. Contractor may retain one Contract record set.
- 1.3.2 Neither Contractor, Subcontractor, nor Supplier will own or claim a copyright to documents contained in the Contract or any part of the Contract.
- 1.3.3 Documents contained in the Contract, prepared by the City or by Design Consultant, and copies furnished to Contractor, are for use solely with respect to the Work. They may not be used by Contractor, Subcontractor or Supplier on other projects or for additions to the Work, outside the scope of the Work, without the specific written consent of City Engineer, and Design Consultant, when applicable.
- 1.3.4 Contractor, Subcontractors, and Suppliers are granted a limited license to use and reproduce applicable portions of the Contract appropriate to and for use in execution of their work under the Contract.

1.4 INTERPRETATION

- 1.4.1 Specifications are written in an imperative streamlined form and are directed to Contractor, unless noted otherwise. When written in this form, words "shall be" are included by inference where a colon (:) is used within sentences or phrases.
- 1.4.2 In the interest of brevity, the Contract frequently omits modifying words such as "all" and "any" and articles such as "the" and "an", but an absent modifier or article is not intended to affect interpretation of a statement.

ARTICLE 2 - THE CITY

2.1 LIMITATIONS OF THE CITY'S OFFICERS AND EMPLOYEES

2.1.1 No officer or employee of the City may authorize Contractor to perform an act or work contrary to the Contract, except as otherwise provided in the Contract.

2.2 DUTIES OF THE CITY

- 2.2.1 If a building permit is required, the City will process an application for, and Contractor shall purchase the building permit before Date of Commencement of the Work.
- 2.2.2 The City will make available to Contractor a reproducible set of Drawings. Additional copies will be furnished, on Contractor's request, at the cost of reproduction.
- 2.2.3 When necessary for performance of the Work, the City will provide surveys describing physical characteristics, legal limitations, legal description of site, and horizontal and vertical control adequate to lay out the Work.
- 2.2.4 Information or services that the City is required to provide under the Contract will be provided by the City with reasonable promptness to avoid delay in orderly progress of the Work.
- 2.2.5 The Contract imposes no implied duty on the City. The City does not warrant any plans or specifications associated with the Contract.
- 2.2.6 Except as expressly stated in this Article, the City owes no duty to the Contractor or any subcontractor.

2.3 AVAILABILITY OF LAND AND USE OF SITE

- 2.3.1 The City will furnish, as indicated in the Contract, rights-of-way, land on which the Work is to be performed, and other land designated in the Contract for use by Contractor unless otherwise provided in the Contract.
- 2.3.2 Contractor shall confine operations at site to those areas permitted by law, ordinances, permits, and the Contract, and may not unreasonably encumber site with materials or equipment.
- 2.3.3 In addition to land provided by the City under Section 2.3, Contractor shall provide all land and access to land that may be required for use by

Contractor for temporary construction facilities or for storage of materials and equipment, and shall indemnify the City during its use of the land as stated in Section 3.25.

2.4 THE CITY'S RIGHT TO STOP THE WORK

If Contractor fails to carry out the Work 2.4.1 in accordance with the Contract, or fails to correct work which is not in accordance with requirements of the Contract as required in Sections 12.1 and 12.2. the City may, by Notice of Noncompliance, order Contractor to stop the Work or any portion of the Work until the cause for the order has been eliminated. However, the right of the City to stop the Work will not give rise to a Claim for delay or to a duty on the part of the City to exercise this right for the benefit of Contractor or any other person or entity, except to the extent required by Section 6.2. If Contractor corrects the defective or nonconforming work within the time established in Notice of Noncompliance, City Engineer will give written notice to Contractor to resume performance of the Work.

2.5 THE CITY'S RIGHT TO CARRY OUT WORK

- 2.5.1 If Contractor fails to carry out work in accordance with the Contract, and fails within the period established in a Notice of Noncompliance to correct the nonconforming work, the City may, after expiration of the required period, correct the deficiencies without prejudice to other remedies the City may have, including rights of the City under Section 14.1.
 - 2.5.1.1 When the City corrects deficiencies, City Engineer will issue an appropriate Change Order and deduct from payments then or thereafter due Contractor the cost of correcting the deficiencies, including compensation for Design Consultant's and Construction Manager's additional services and expenses made necessary by such default, neglect, or failure. This action by the City and amounts charged to Contractor are both subject to prior approval of City Engineer. If payments, then or thereafter due Contractor, are not sufficient to cover these amounts. Contractor shall pay the difference to the City.
- 2.5.2 Notwithstanding the City's right to carry out work, maintenance and protection of the Work remains Contractor's responsibility, as provided in the Contract.

ARTICLE 3 - CONTRACTOR

3.1 RESPONSIBILITIES

- 3.1.1 Contractor shall maintain office with agent in the greater City of Houston area during the Contractor's performance under the Contract. Contractor shall file its street address with City Engineer.
- 3.1.2 Contractor and Contractor's employees shall not give or lend money or anything of value to an officer or employee of the City. Should this Paragraph 3.1.2 be violated, City Engineer may terminate the Contract under Section 14.1.

3.2 REVIEW OF CONTRACT AND FIELD CONDITIONS BY CONTRACTOR

- 3.2.1 Contractor shall carefully study and compare documents contained in the Contract with each other and with information furnished by the City pursuant to Section 2.2 and shall immediately report, in writing, any errors, inconsistencies, or omissions to City Engineer. If work is affected, Contractor shall obtain a written interpretation or clarification from City Engineer before proceeding with the affected work. However, Contractor will not be liable to the City for failure to report an error, inconsistency, or omission in the Contract unless Contractor had actual knowledge or should have had knowledge of the error, inconsistency, or omission.
- 3.2.2 Contractor shall take field measurements and verify field conditions, and shall carefully compare the conditions and other information known to Contractor with the Contract, before commencing activities. Contractor shall immediately report, in writing, to City Engineer for interpretation or clarification of discrepancies, inconsistencies, or omissions discovered during this process.
- 3.2.3 Contractor shall make a reasonable attempt to understand the Contract before requesting interpretation from City Engineer.

3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

3.3.1 Contractor shall supervise, direct, and inspect the Work competently and efficiently, devoting the attention and applying the skills and expertise as necessary to perform the Work in accordance with the Contract. Contractor is solely responsible and has control over construction

means, methods, techniques, sequences, and procedures of construction; for safety precautions and programs in connection with the Work; and for coordinating all work under the Contract.

3.3.2 Regardless of observations or inspections by the City or City's consultants, Contractor shall perform and complete the Work in accordance with the Contract and submittals approved pursuant to Section 3.18. The City is not liable or responsible to Contractor or Surety for work performed by Contractor that is not in accordance with the Contract regardless of whether discovered during construction or after acceptance of the Work.

3.4 SUPERINTENDENT

- 3.4.1 Contractor shall employ a competent Superintendent and necessary assistants who shall be present at the site during performance of the Work. Communications given to Superintendent are binding on the Contractor.
- 3.4.2 Contractor shall notify City Engineer in writing of its intent to replace the Superintendent. Contractor may not replace the Superintendent if City Engineer makes a reasonable objection in writing.

3.5 LABOR

- 3.5.1 Contractor shall provide competent, qualified personnel to survey and lay out the Work and perform construction as required by the Contract. The City may, by written notice, require Contractor to remove from the Work any employee of Contractor or Subcontractors to whom City Engineer makes reasonable objection.
- 3.5.2 Contractor shall comply with the applicable Business Enterprise Policy set out in this Agreement and in the Supplementary Conditions, as set out in Chapter 15, Article V of the City of Houston Code of Ordinances.
- 3.5.3 When Original Contract Price is greater than \$1,000,000, Contractor shall make Good Faith Efforts to award subcontracts or supply agreements in at least the percentages set out in the Supplementary Conditions for Business Enterprise Policy ("Stated MWBE goal"). If the Contractor is a certified MBE or WBE, Contractor may count toward goals the work that it commits to perform with its own work force, capped at 50% of the total advertised goal. Contractor acknowledges that it has reviewed the requirements for Good Faith Efforts on file with the City's Office of Business Opportunity and shall comply with them.

- 3.5.3.1 Contractor require written shall subcontracts with Business Enterprises and shall submit all disputes with Business Enterprises voluntary mediation. Business Enterprise subcontracts complying with City Code of Ordinances Chapter 15, Article II must contain the terms set out in Subparagraph 3.5.3.2. If Contractor is an individual person, as distinguished from а corporation, partnership, or other legal entity, and the amount of the subcontract is \$50,000 or less, the subcontract must also be signed by the attorneys of the respective parties.
- 3.5.3.2 Contractor shall ensure that subcontracts with Business Enterprise firms are clearly labeled "THIS CONTRACT MAY BE SUBJECT TO MEDIATION ACCORDING TO THE TEXAS ALTERNATIVE DISPUTE RESOLUTION ACT" and contain the following terms:
 - (Business Enterprise) shall 3.5.3.2.1 permit representatives of the City of Houston, at all reasonable times, to perform (1) audits of the and records of the Subcontractors and Suppliers. and (2) inspections of all places where work is to be undertaken in connection with this subcontract. (Business Enterprise) shall keep the books and records available for this purpose for at least four years after the end of its performance under this Nothing in this subcontract. provision shall affect the time for bringing a cause of action nor the applicable statute of limitations.
 - 3.5.3.2.2 Within five business days of execution of this subcontract, Contractor and (Business Enterprise) shall designate in writing to the Director an agent for receiving any notice required or permitted to be given pursuant to Chapter 15 of the Houston City Code of Ordinances, along with the street and mailing address and phone number of the agent.
- 3.5.3.3 If the term of this Agreement exceeds one Contract Year and Contractor's MWBE participation level in a Contract Year is less than the Stated MWBE goal, then within 30 calendar days of the end of each Contract Year, Contractor must provide a written detailed explanation to both the

Director and OBO Director of the following: (1) the discrepancy between Contractor's MWBE participation level and the Stated MWBE goal, (2) the reason for the discrepancy, and (3) Contractor's good faith efforts (in accordance with the City's policy) towards achieving the Stated MWBE goal. As part of the good faith efforts assessment, the OBO Director may consider Contractor's failure to timely submit the notice or explanation required by this provision and the OBO Director may impose sanctions or other penalties on Contractor for said failures in accordance with Chapter 15 of the Code of Ordinances, OBO's policies procedures, and the City's good faith efforts policy.

The requirements and terms of the City 3.5.4 of Houston Pay or Play Program, as set out in Executive Order 1-7, as revised from time to time, are incorporated into the Contract for all purposes. Contractor has reviewed Executive Order 1-7 and shall comply with its terms and conditions. CONTRACTOR DOES NOT PAY IN ACCORDANCE WITH THE PAY OR PLAY PROGRAM WITHIN 30 DAYS OF THE DATE CITY ENGINEER SENDS CONTRACTOR WRITTEN NOTIFICATION. **CITY** CONTROLLER MAY DEDUCT FUNDS UP TO THE **AMOUNT OWED** FROM **ANY** PAYMENTS CONTRACTOR OWED TO THIS **AND UNDER** CONTRACT. CONTRACTOR WAIVES ANY RECOURSE.

PREVAILING WAGE RATES 3.6

- Contractor shall comply with governing statutes providing for labor classification of wage scales for each craft or type of laborer, worker, or mechanic.
- 3.6.2 Prevailing wage rates applicable to the Work may be one or a combination of the following wage rates identified in Division 00:
 - 3.6.2.1 Federal Wage Rate General Decisions

3.6.2.1.1 **Highway Rates**

Building Rates 3.6.2.1.2

Heavy Construction Rates 3.6.2.1.3

Residential Rates 3.6.2.1.4

3.6.2.2 City Prevailing Wage Rates

Building Construction Rates 3.6.2.2.1 3.6.2.2.2

Engineering Construction

Asbestos Worker Rates 3.6.2.2.3

3.6.3 Each week Contractor shall submit to the City's Mayor's Office of Business Opportunity certified copies of payrolls showing classifications and wages paid by Contractor, Subcontractors, and Suppliers for each employee under the Contract, for any day included in the Contract.

3.7 LABOR CONDITIONS

- 3.7.1 In the event of labor disputes affecting Contractor or Contractor's employees, Contractor shall utilize all possible means to resolve disputes in order that the Work not be delayed to any extent. These means will include seeking injunctive relief and filing unfair labor practice charges, and any other action available to Contractor.
- When Contractor has knowledge that any actual or potential labor dispute is delaying or is threatening to delay timely performance of the Work, Contractor shall immediately notify City Engineer in writing. No Claims will be accepted by City Engineer for costs incurred as a result of jurisdictional or labor disputes.

3.8 DRUG **DETECTION** AND **DETERRENCE**

It is the policy of the City to achieve a drug-free work force and to provide a workplace that is free from the use of illegal drugs and alcohol. It is also the policy of the City that manufacture, distribution, dispensation, possession, sale, or use of illegal drugs or alcohol by contractors while on the City's premises is prohibited. By executing the Contract, Contractor represents and certifies that it meets and will comply with all requirements and procedures set forth in the Mayor's Policy on Drug Detection and Deterrence, City Council Motion No. 92-1971 ("Mayor's Policy") and the Mayor's Drug Detection and Deterrence Procedures Contractors, Executive Order No. 1-31, (Revised) ("Executive Order"). Mayor's Policy is on file in the office of the City Secretary. Copies of Executive Order may be obtained at the location specified in the Advertisement for Bids.

- 3.8.1.1 The Executive Order applies to the City's contracts for labor or services except the following:
 - 3.8.1.1.1 contracts authorized Emergency Purchase Orders,
 - 3.8.1.1.2 contracts which in imposition of requirements of the Executive Order would exclude all potential bidders or proposers, or eliminate meaningful would competition for the Contract,

- 3.8.1.1.3 contracts with companies that have fewer than 15 employees during any 20-week period during a calendar year and no safety impact positions,
- 3.8.1.1.4 contracts with non-profit organizations providing services at no cost or reduced cost to the public, and
- 3.8.1.1.5 contracts with federal, state, or local governmental entities.
- 3.8.1.2 Prior to execution of the Contract, Contractor shall have filed with the City:
 - 3.8.1.2.1 a Drug Policy Compliance
 Agreement form (Attachment "A"
 to the Executive Order), and
 - 3.8.1.2.2 a copy of Contractor's drug free workplace policy, and
 - 3.8.1.2.3 a written designation of all safety impact positions, if applicable, or a Contractor's Certification of a No Safety Impact Positions form (Attachment "C" to the Executive Order).
- 3.8.1.3 Every six months during performance of the Contract and upon completion of the Contract, Contractor shall file a Drug Policy Compliance Declaration form (Attachment "B" to the Executive Order). The Contractor shall submit the Drug Policy Compliance Declaration within 30 days of expiration of each six-month period of performance and within 30 days of completion of the Contract. The first six-month period shall begin on Date of Commencement of the Work.
- 3.8.1.4 Contractor shall have a continuing obligation to file updated designation of safety impact positions when additional safety impact positions are added to Contractor's employee workforce during performance of the Work.
- 3.8.1.5 Contractor shall require its Subcontractors and Suppliers to comply with the Mayor's Policy and Executive Order. Contractor is responsible for securing and maintaining required documents from Subcontractors and Suppliers for the City inspection throughout the term of the Contract.
- 3.8.1.6 Failure of Contractor to comply with requirements will be a material breach of the Contract entitling the City to terminate in accordance with Section 14.1.

3.9 MATERIALS & EQUIPMENT

- 3.9.1 Unless otherwise provided in the Contract, Contractor shall provide and assume full responsibility for Products, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, transportation, temporary facilities, supplies, and other facilities and incidentals necessary for Furnishing, performing, testing, starting-up, and completing the Work.
 - 3.9.1.1 Contractor, Subcontractors, and Suppliers shall use Ultra Low Sulfur Diesel Fuel in all diesel operating vehicles and motorized equipment utilized in performing the Work. Ultra Low Sulfur Diesel Fuel is defined as diesel fuel having 15 ppm or the applicable standard set by state or federal law or rules and regulations of the Texas Commission on Environmental Quality, or the Environmental Protection Agency, whichever is less in sulfur content. Offroad Ultra Low Sulfur Diesel Fuel may be used in lieu of on-road Ultra Low Sulfur Diesel Fuel. Contractor shall provide, upon request by City Engineer, proof that Contractor, Subcontractors, and Suppliers are using Ultra Low Sulfur Diesel Fuel.
- 3.9.2 Contractor shall provide Products that are:
 - 3.9.2.1 new, unless otherwise required or permitted by the Contract, and
 - 3.9.2.2 of specified quality.

If required by City Engineer, Contractor shall furnish satisfactory evidence, including reports of required tests, as to kind and quality of Products.

- 3.9.3 Contractor shall store Products in a safe, neat, compact, and protected manner. Contractor shall also store Products delivered during the work, along the right-of-way:
 - 3.9.3.1 so as to cause the least inconvenience to property owners, tenants, and general public; and
 - 3.9.3.2 so as not to block access to, or be closer than, three feet to any fire hydrant.

Contractor shall protect trees, lawns, walks, drives, streets, and other improvements that are to remain, from damage. If private or public property is damaged by Contractor, Contractor shall, at its sole expense, restore the damaged property to at least its original condition.

3.9.3.1 Contractor shall obtain City Engineer's approval for storage areas used for Products for which payment has been requested under Paragraph 9.6.1.

Contractor shall provide the City access to the storage areas for inspection purposes. Products, once paid for by the City, become the property of the City and may not be removed from place of storage, without City Engineer's written permission except for a movement to the site. Contractor's Installation Floater, required under Section 11.2, shall cover all perils, including loss or damage to Products during storage, loading, unloading, and transit to the site.

3.10 PRODUCT OPTIONS AND SUBSTITUTIONS

- 3.10.1 For Products specified by reference standards or by description only, Contractor may provide any Product meeting those standards or description.
- 3.10.2 For Products specified by naming one or more manufacturers with provision for substitutions or equal, Contractor may submit a request for substitution for any manufacturer not named.
- 3.10.3 City Engineer will consider requests for substitutions only within the first 15 percent of Contract Time, or first 90 days after date of Notice to Proceed, whichever is less.
- 3.10.4 Contractor shall document each request for substitution with complete data substantiating compliance of proposed substitution with the Contract.
- 3.10.5 A request for substitution constitutes a representation that Contractor:
 - 3.10.5.1 has investigated the proposed Product and determined that it meets or exceeds the quality level of the specified Product;
 - 3.10.5.2 shall provide the same warranty for the substitution as for the specified Product;
 - 3.10.5.3 shall coordinate installation of the proposed substitution and make changes to other work which may be required for the Work to be completed, with no additional cost or increase in time to the City:
 - 3.10.5.4 confirms that cost data is complete and includes all related costs under the Contract:
 - 3.10.5.5 waives Claim for additional costs or time extensions that may subsequently become apparent; and

- 3.10.5.6 shall provide review or redesign services by a design consultant with appropriate professional license and shall obtain re-approval and permits from authorities.
- 3.10.6 City Engineer will not consider and will not approve substitutions when:
 - 3.10.6.1 they are indicated or implied on Shop Drawing or Product Data submittals without separate written request; or
 - 3.10.6.2 acceptance will require revision to the Contract.
- 3.10.7 City Engineer may reject requests for substitution, and his decision will be final and binding on the Parties.

3.11 CASH ALLOWANCES

- 3.11.1 Contract Price includes Cash Allowances as identified in the Contract.
- 3.11.2 The City will pay the actual costs of Cash Allowance item exclusive of profit, overhead or administrative costs. If actual costs exceed the Cash Allowance, City Engineer must approve a Change Order for the additional costs.

3.12 WARRANTY

3.12.1 Contractor warrants to the City that Products furnished under the Contract are:

3.12.1.1 free of defects in title; 3.12.1.2 of good quality; and

3.12.1.3 new, unless otherwise required or permitted by the Contract.

If required by the City Engineer, Contractor shall furnish satisfactory evidence as to kind, quality and title of Products, and that Products conform to requirements of the Contract.

- 3.12.2 In the event of a defect in a Product, either during construction or warranty period, Contractor shall take appropriate action with manufacturer of Product to assure correction or replacement of defective Product with minimum delay.
- 3.12.3 Contractor warrants that the Work is free of defects not inherent in the quality required or permitted, and that the Work does conform with the requirements of the Contract. Contractor further warrants that the Work has been performed in a thorough and workmanlike manner.

- 3.12.4 Contractor warrants that the Work is free of concentrations on polychlorinated biphenyl (PCB) and other substances defined as hazardous by the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) or any other applicable law or regulation.
- 3.12.5 Work not conforming to requirements of Section 3.12, including substitutions not properly approved and authorized, may be considered nonconforming work.
- 3.12.6 Contractor's warranty excludes remedy for damage or defect caused by:
 - 3.12.6.1 improper or insufficient maintenance by the City;
 - 3.12.6.2 normal wear and tear under normal usage; or
 - 3.12.6.3 claim that hazardous material was incorporated into the Work, if that material was specified in the Contract.
- 3.12.7 Contractor warrants that title to all work covered by Contractor's request for payment passes to the City upon incorporation into the Work or upon Contractor's receipt of payment, whichever occurs first. The Contractor further warrants that the title is free of all liens, claims, security interests or other interests ("Encumbrances"). If not, upon written demand from City Engineer, Contractor shall immediately take legal action necessary to remove Encumbrances.

3.13 *TAXES*

- 3.13.1 Contractor shall pay all sales, consumer, use, and similar taxes, which are in effect or scheduled to go into effect on or before bids are received, related to work provided by Contractor.
- 3.13.2 Contractor shall obtain, and require Subcontractors and Suppliers to obtain, necessary permits from the state and local taxing authorities to perform contractual obligations under the Contract, including sales tax permits.
- 3.13.3 The City is exempt from the Federal Transportation and Excise Tax. Contractor shall comply with federal regulations governing the exemptions.
- 3.13.4 Products incorporated into the Work are exempt from state sales tax according to provisions of the Tex. Tax Code Ann. Ch. 151, Subsection H.

3.14 PERMITS, FEES, AND NOTICES

- 3.14.1 Unless otherwise provided in the Contract, Contractor shall secure and pay for all construction permits, licenses, and inspections:
 - 3.14.1.1 necessary for proper execution and completion of the Work; and
 - 3.14.1.2 legally required at time bids are received.

3.15 CONSTRUCTION SCHEDULES

- 3.15.1 On receipt of Notice to Proceed, Contractor shall promptly prepare and submit construction schedule for the Work for City Engineer's review. The schedule must reflect the minimum time required to complete the Work not to exceed Contract Time.
- 3.15.2 Contractor shall give 24-hour written notice to City Engineer before commencing work or resuming work where work has been stopped. Contractor shall also give the same notice to inspectors.
- 3.15.3 Contractor shall incorporate milestones specified in Summary of Work Specification into the construction schedule. Contractor's failure to meet a milestone, as determined by City Engineer, may be considered a material breach of the Contract.
- 3.15.4 Each month, Contractor shall submit to City Engineer a copy of an updated construction schedule indicating actual progress, incorporating applicable changes, and indicating courses of action required to assure completion of the Work within Contract Time.
- 3.15.5 Contractor shall keep a current schedule of submittals that coordinates with the construction schedule, and shall submit the initial schedule of submittals to City Engineer for approval.

3.16 DOCUMENTS AND SAMPLES AT THE SITE

- 3.16.1 Contractor shall maintain at the site, and make available to City Engineer, one record copy of Drawings, Specifications, and Modifications. Contractor shall maintain the documents in good order and marked currently to record changes and selections made during construction. In addition, Contractor shall maintain at the site, approved Shop Drawings, Product Data, Samples, and similar submittals, which will be delivered to City Engineer prior to final inspection as required in Paragraph 9.11.4.
- 3.16.2 Contractor shall maintain all books, documents, papers, accounting records, and other

relevant documentation pursuant to the Work and shall make the books, documents, papers, and accounting records available to representatives of the City for review and audits during the Contract term and for the greater of three years following Date of Substantial Completion or until all litigation or audits are fully resolved.

3.16.3 Contractor shall provide to City Attorney all documents and records that City Attorney deems necessary to assist in determining Contractor's compliance with the Contract, with the exception of those documents made confidential by federal or state law or regulation.

3.17 MANUFACTURER'S SPECIFICATIONS

- 3.17.1 Contractor shall handle, store, and Install Products and perform all work in the manner required by Product manufacturer. Should the Contract and manufacturer's instructions conflict, Contractor shall report conflict to City Engineer for resolution prior to proceeding with the affected work.
- 3.17.2 References in the Contract to the manufacturer's specifications, directions, or recommendations, mean manufacturer's current published documents in effect as of date of receipt of bids, or in the case of a Modification, as of date of Modification.

3.18 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

- 3.18.1 Shop Drawings, Product Data, and Samples are not part of the Contract. The purpose of Contractor submittals is to demonstrate, for those portions of the Work for which submittals are required, the way Contractor proposes to conform to information given and design concept expressed in the Contract.
- Contractor shall submit to Project 3.18.2 Manager for review the Shop Drawings, Product Data, and Samples, which are required by the Contract. Review by Project Manager is subject to limitations of Paragraph 4.1.4. Contractor shall transmit the submittals to the Project Manager with reasonable promptness and in a sequence, so as to cause no delay in the Work or in activities of the City or of separate contractors. Contractor shall transmit submittals in time to allow a minimum of 30 days for Project Manager's review prior to date Contractor needs reviewed submittals returned. This time may be shortened for a particular job requirement if approved by Project Manager in advance of submittal.

- 3.18.3 Contractor shall certify that the content of submittals conforms to the Contract without exception by affixing Contractor's approval stamp and signature. By certifying and submitting Shop Drawings, Product Data, and Samples, Contractor represents, and Contractor's stamp of approval shall state, that Contractor has determined and verified materials, quantities, field measurements, and field construction criteria related to the submittal, and has checked and coordinated information contained within the submittals with requirements of the Contract.
- 3.18.4 Contractor may not perform any work requiring submittal and review of Shop Drawings, Product Data, or Samples until the submittal has been returned with appropriate review decision by the Project Manager. Contractor shall perform work in accordance with the review.
- 3.18.5 If Contractor performs any work requiring submittals prior to review and acceptance of the submittals by Project Manager, such work is at Contractor's risk and the City is not obligated to accept work if the submittals are later found to be unacceptable.
- 3.18.6 If, in the opinion of Project Manager, the submittals are incomplete, or demonstrate an inadequate understanding of the Work or lack of review by the Contractor, then submittals may be returned to the Contractor for correction and resubmittal.
- 3.18.7 Contractor shall direct specific attention in writing and on the resubmitted Shop Drawings, Product Data, or Samples to any additional proposed revisions, other than those revisions requested by Project Manager on previous submittals.
- 3.18.8 Contractor is not relieved of responsibility for deviations from requirements of the Contract by Project Manager's review of Shop Drawings, Product Data, or Samples unless Contractor has specifically informed Project Manager in writing of the deviation at the time of the submittal, and Project Manager has given written approval of the deviation.
- 3.18.9 When professional certification of performance criteria of Products is required by the Contract, the City may rely upon accuracy and completeness of the calculations and certifications.
- 3.18.10 For Product colors or textures to be selected by the City, Contractor shall submit all

samples together to allow preparation of a complete selection schedule.

- 3.18.11 Contractor shall submit informational submittals, on which Project Manager is not expected to take responsive action, as required by the Contract.
- 3.18.12 Submittals made by Contractor which are not required by the Contract may be returned to Contractor without action.

3.19 CULTURAL RESOURCES AND ENDANGERED SPECIES

- 3.19.1 Contractor may not remove or disturb, or cause to be removed or disturbed, any historical, archaeological, architectural, or other cultural artifacts, relics, vestiges, remains, or objects of antiquity. If Contractor discovers one of these items, Contractor shall immediately notify City Engineer and further comply with the requirements of 13 Tex. Admin. Code Chs. 25 and 26 (2002), or successor regulation. Contractor shall protect site and cultural resources from further disturbance until professional examination can be made or until clearance to proceed is authorized in writing by City Engineer.
- 3.19.2 Should either threatened or endangered plant or animal species be encountered, Contractor shall cease work immediately in the area of encounter and notify City Engineer.

3.20 CUTTING AND PATCHING

- 3.20.1 Contractor is responsible for necessary cutting, fitting, and patching to accomplish the Work and shall suitably support, anchor, attach, match, and trim or seal materials to work of other contractors. Contractor shall coordinate the Work with work of other contractors to minimize conflicts, as provided in Article 6.
- 3.20.2 Contractor may not endanger work by cutting, digging, or other action, and may not cut or alter work of other contractors except by written consent of City Engineer and affected contractor.

3.21 CLEANING

3.21.1 Contractor shall perform daily cleanup of all dirt, debris, scrap materials and other disposable items resulting from Contractor's operations, whether on-site or off-site. Unless otherwise authorized in writing by City Engineer, Contractor shall keep all streets, access streets, driveways, areas of public access, walkways, and other designated areas clean and open at all times.

3.21.2 Failure of Contractor to maintain a clean site, including access streets, is the basis for City Engineer to issue a Notice of Noncompliance. Should compliance not be attained within the time period in the Notice of Noncompliance, City Engineer may authorize necessary cleanup to be performed by others and the cost of the cleanup will be deducted from monies due Contractor.

Contractor shall legally dispose off-site, all waste materials and other excess materials resulting from Contractor's operations.

3.22 SANITATION

3.22.1 Contractor shall provide and maintain sanitary facilities at site for use of all construction forces under the Contract. Newly-constructed or existing sanitary facilities may not be used by Contractor.

3.23 ACCESS TO WORK AND TO INFORMATION

- 3.23.1 Contractor shall provide the City, Design Consultant, testing laboratories, and governmental agencies which have jurisdictional interests, access to the Work in preparation and in progress wherever located. Contractor shall provide proper and safe conditions for the access.
- 3.23.2 If required by City Engineer, Contractor shall furnish information concerning character of Products and progress and manner of the Work, including information necessary to determine cost of the Work, such as number of employees, pay of employees, and time employees worked on various classes of the Work.

3.24 TRADE SECRETS

3.24.1 Contractor will not make any claim of ownership of trade secrets as to products used in the Work, or preparation of any mixture for the Work. City Engineer will at all times have the right to demand and Contractor shall furnish information concerning materials or samples of ingredients of any materials used, or proposed to be used, in preparation of concrete placed or other work to be done. Mixtures, once agreed on, shall not be changed in any manner without knowledge and consent of City Engineer. The City will make its best efforts to protect confidentiality of proprietary information.

3.25 INDEMNIFICATION

3.25.1 CONTRACTOR AGREES TO AND SHALL DEFEND, INDEMNIFY, AND HOLD THE

CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL **REPRESENTATIVES** (COLLECTIVELY THE "CITY") HARMLESS FOR ALL CLAIMS, CAUSES OF ACTION, LIABILITIES, FINES, AND EXPENSES (INCLUDING, WITHOUT ATTORNEYS' FEES. LIMITATION. COSTS, AND ALL OTHER DEFENSE COSTS AND INTEREST) FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THE CONTRACT INCLUDING, WITHOUT LIMITATION, THOSE CAUSED BY:

- 3.25.1.1 CONTRACTOR'S AND/OR **ITS** EMPLOYEES', AGENTS', OFFICERS', DIRECTORS', CONTRACTORS'. OR SUBCONTRACTORS' (COLLECTIVELY IN NUMBERED SUBPARAGRAPHS .1 through .3, "CONTRACTOR") ACTUAL ALLEGED NEGLIGENCE OR INTENTIONAL ACTS OR OMISSIONS;
- 3.25.1.2 THE CITY'S AND CONTRACTOR'S ACTUAL OR ALLEGED CONCURRENT NEGLIGENCE, WHETHER CONTRACTOR IS IMMUNE FROM LIABILITY OR NOT:
- 3.25.1.3 THE CITY'S AND CONTRACTOR'S ACTUAL OR ALLEGED STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY, WHETHER CONTRACTOR IS IMMUNE FROM LIABILITY OR NOT.

CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY HARMLESS DURING THE TERM OF THE CONTRACT AND FOR FOUR YEARS AFTER THE CONTRACT TERMINATES. CONTRACTOR SHALL NOT INDEMNIFY THE CITY FOR THE CITY'S SOLE NEGLIGENCE.

- 3.25.2 NOTWITHSTANDING ANYTHING TO THE CONTRARY, THE LIABILITY OF CONTRACTOR FOR THE CITY'S CONCURRENT NEGLIGENCE SHALL NOT EXCEED \$1,000,000.
- 3.26 RELEASE AND INDEMNIFICATION –
 PATENT, COPYRIGHT, TRADEMARK,
 AND TRADE SECRET
 INFRINGEMENT
- 3.26.1 UNLESS OTHERWISE SPECIFICALLY REQUIRED BY THE CONTRACT, CONTRACTOR AGREES TO AND SHALL RELEASE AND DEFEND, INDEMNIFY, AND HOLD HARMLESS THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") FROM ALL CLAIMS OR CAUSES OF ACTION BROUGHT AGAINST

THE CITY BY ANY PARTY. **INCLUDING** CONTRACTOR, ALLEGING THAT THE CITY'S OF ANY EQUIPMENT, USE SOFTWARE, OR DOCUMENTS CONTRACTOR PROCESS. FURNISHES DURING THE TERM OF THE CONTRACT INFRINGES ON A PATENT. COPYRIGHT. OR TRADEMARK. OR MISAPPROPRIATES Α TRADE SECRET. SHALL PAY ALL COSTS CONTRACTOR (INCLUDING, **WITHOUT** LIMITATION. ATTORNEYS' FEES, COURT COSTS, AND ALL OTHER DEFENSE COSTS, AND INTEREST) AND DAMAGES AWARDED.

- 3.26.2 CONTRACTOR SHALL NOT SETTLE ANY CLAIM ON TERMS WHICH PREVENT THE CITY FROM USING THE EQUIPMENT, SOFTWARE, PROCESS, OR PRODUCT WITHOUT THE CITY ENGINEER'S PRIOR WRITTEN CONSENT.
- 3.26.3 UNLESS OTHERWISE SPECIFICALLY REQUIRED BY THE CONTRACT, WITHIN 60 DAYS AFTER BEING NOTIFIED OF THE CLAIM, CONTRACTOR SHALL, AT ITS OWN EXPENSE, EITHER:
 - 3.26.3.1 OBTAIN FOR THE CITY THE RIGHT TO CONTINUE USING THE EQUIPMENT, SOFTWARE, PROCESS, OR PRODUCT, OR
 - 3.26.3.2 IF BOTH PARTIES AGREE, REPLACE OR MODIFY THEM WITH COMPATIBLE AND FUNCTIONALLY EQUIVALENT PRODUCTS.
- IF NONE OF THESE ALTERNATIVES IS REASONABLY AVAILABLE, THE CITY MAY RETURN THE EQUIPMENT, SOFTWARE, OR PRODUCT, OR DISCONTINUE THE PROCESS, AND CONTRACTOR SHALL REFUND THE PURCHASE PRICE.

3.27 INDEMNIFICATION PROCEDURES

- 3.27.1 Notice of Indemnification Claims: If the City or Contractor receives notice of any claim or circumstances which could give rise to an indemnified loss, the receiving party shall give written notice to the other Party within 10 days. The notice must include the following:
- 3.27.1.1 a description of the indemnification event in reasonable detail,
- 3.27.1.2 the basis on which indemnification may be due, and
- 3.27.1.3 the anticipated amount of the indemnified loss.

This notice does not estop or prevent the City from later asserting a different basis for indemnification or a different amount of indemnified loss than that

indicated in the initial notice. If the City does not provide this notice within the 10-day period, it does not waive any right to indemnification except to the extent that Contractor is prejudiced, suffers loss, or incurs expense because of the delay.

3.27.2 Defense of Indemnification Claims:

3.27.2.1 Assumption of Defense:
Contractor may assume the defense of the claim at its own expense with counsel chosen by it that is reasonably satisfactory to the City. Contractor shall then control the defense and any negotiations to settle the claim. Within 10 days after receiving written notice of the indemnification request, Contractor must advise the City as to whether or not it will defend the claim. If Contractor does not assume the defense, the City shall assume and control the defense, and all defense expenses constitute an indemnified loss.

3.27.2.2 Continued Participation: If
Contractor elects to defend the claim, the
City may retain separate counsel to
participate in, but not control, the defense
and to participate in, but not control, any
settlement negotiations. Contractor may
settle the claim without the consent or
agreement of the City, unless it:

3.27.2.2.1 would result in injunctive relief or other equitable remedies or otherwise require the City to comply with restrictions or limitations that adversely affect the City;

- 3.27.2.2.2 would require the City to pay amounts that Contractor does not fund in full: or
- 3.27.2.2.3 would not result in the City's full and complete release from all liability to the plaintiffs or claimants who are parties to or otherwise bound by the settlement.

3.28 CONTRACTOR DEBT

IF CONTRACTOR, AT ANY TIME DURING THE TERM OF THIS AGREEMENT, INCURS A DEBT, AS THE WORD IS DEFINED IN SECTION 15-122 THE HOUSTON CITY CODE ORDINANCES, IT SHALL IMMEDIATELY NOTIFY CITY CONTROLLER IN WRITING. IF CITY CONTROLLER BECOMES **AWARE THAT** CONTRACTOR HAS INCURRED A DEBT, IT SHALL IMMEDIATELY NOTIFY CONTRACTOR IN WRITING. IF CONTRACTOR DOES NOT PAY THE DEBT WITHIN 30 DAYS OF EITHER SUCH NOTIFICATION, CITY CONTROLLER MAY DEDUCT FUNDS IN AN AMOUNT EQUAL TO THE DEBT FROM ANY PAYMENTS OWED TO CONTRACTOR UNDER THIS AGREEMENT, AND CONTRACTOR WAIVES ANY RECOURSE THEREFOR. CONTRACTOR SHALL FILE A NEW AFFIDAVIT OF OWNERSHIP, USING THE FORM DESIGNATED BY CITY, BETWEEN FEBRUARY 1 AND MARCH 1 OF EVERY YEAR DURING THE TERM OF THE CONTRACT.

3.29 PRESERVATION OF CONTRACTING INFORMATION

3.29.1 The requirements of Subchapter J, Chapter 552, Texas Government Code, may apply to this Agreement and the Contractor agrees that this Agreement can be terminated if the Contractor knowingly or intentionally fails to comply with a requirement of that subchapter. If the requirements of Subchapter J, Chapter 552, Texas Government Code, apply to this Agreement, then for the duration of this Agreement (including the initial term, any renewal terms, and any extensions), Contractor shall preserve all Contracting Information, as defined by Section 552.003 of the Texas Government Code, related to this Agreement as provided by the records retention requirements applicable to the City pursuant to federal or state law or regulation, city ordinance or city policy, which record retention requirements include but are not limited to those set forth in Chapters 201 and 205 of the Texas Local Government Code and Texas Administrative Code Title 13, Chapter 7. Within five business days after receiving a request from the Director, Contractor shall provide any Contracting Information related to this Agreement that is in the custody or possession of Contractor. Upon the expiration or termination of this Agreement, Contractor shall, at the Director's election, either (a) provide, at no cost to the City, all Contracting Information related to this Agreement that is in the custody or possession of Contractor, or (b) preserve the Contracting Information related to this Agreement as provided by the records retention requirements applicable to the City pursuant to federal or state law or regulation, city ordinance or city policy.

3.29.2 If Contractor fails to comply with any one or more of the requirements of this Section, PRESERVATION OF CONTRACTING INFORMATION, or Subchapter J, Chapter 552, Texas Government Code, then, in accordance with and pursuant to the processes and procedures set forth in Sections 552.373 and 552.374 of the Texas Government Code, the Director shall provide notice to the Contractor and may terminate this Agreement. To effect final termination, the Director must notify Contractor in writing with a copy of the notice to the CPO. After receiving the notice, Contractor shall,

unless the notice directs otherwise, immediately discontinue all services under this Agreement, and promptly cancel all orders or subcontracts chargeable to this Agreement.

ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

4.1 CONTRACT ADMINISTRATION

- 4.1.1 City Engineer will provide administration of the Contract and City Engineer is authorized to issue Change Orders, Work Change Directives, and Minor Changes in the Work.
- 4.1.2 City Engineer may act through Project Manager, Design Consultant, or Inspector. When the term "City Engineer" is used in the Contract, action by City Engineer is required unless City Engineer delegates his authority in writing. The City Engineer may not delegate authority to render decisions under Section 4.4.

The City does not have control over or charge of, and is not responsible for, supervision, construction, and safety procedures enumerated in Section 3.3. The City does not have control over or charge of and is not responsible for acts or omissions of Contractor, Subcontractors, or Suppliers.

- 4.1.3 The City and Design Consultant may attend project meetings and visit the site to observe progress and quality of the Work. The City and Design Consultant are not required to make exhaustive or continuous on-site inspections to check quality or quantity of the Work.
- 4.1.4 Project Manager will review and approve or take other appropriate action on Contractor's submittals, but only for limited purpose of checking for conformance with information given and design concept expressed in the Contract.
- 4.1.5 Project Manager's review of the submittals is not conducted for purpose of determining accuracy and completeness of other details, such as dimensions and quantities, or for substantiating instructions for installation or performance of Products, all of which remain the responsibility of Contractor.
- 4.1.6 Project Manager's review of submittals does not relieve Contractor of its obligations under Sections 3.3, 3.12, and 3.18. Review does not constitute approval of safety precautions or, unless otherwise specifically stated by Project Manager in writing, of construction means, methods, techniques, sequences, or procedures. Project Manager's

review of a specific item does not indicate approval of an assembly of which the item is a component.

- 4.1.7 Based on field observations and evaluations, Project Manager will process Contractor's progress payments, certify amounts due Contractor, and issue Certificates for Payment in the amount certified.
- 4.1.8 Project Manager will receive and forward to City Engineer for his review and records, written warranties and related documents required by the Contract and assembled by Contractor.
- 4.1.9 Upon written request by Contractor or Project Manager, City Engineer will resolve matters of interpretation of or performance of the Contract, which are not Claims. City Engineer's decisions are final and binding on the Parties.
- 4.1.10 City Engineer may reject work which does not conform to the Contract.
- 4.1.11 When City Engineer considers it necessary to implement the intent of the Contract, City Engineer may require additional inspection or testing of work in accordance with Paragraphs 13.6.3 and 13.6.4, whether such work is fabricated, Installed, or completed.

4.2 COMMUNICATIONS IN ADMINISTRATION OF THE CONTRACT

4.2.1 Except as otherwise provided in the Contract or when authorized by City Engineer in writing, Contractor shall communicate with Project Manager. Contractor shall communicate with Design Consultant, Design Consultant's subconsultants, and separate contractors through Project Manager. The City will communicate with Subcontractors and Suppliers through Contractor.

4.3 CLAIMS AND DISPUTES

- 4.3.1 Documentation by Project Manager: Contractor shall submit Claims, including those alleging an error or omission by Project Manager or Design Consultant, to Project Manager for documentation and recommendation to City Engineer.
- 4.3.2 Decision of City Engineer: Upon submission of Claim by Project Manager or Contractor, City Engineer will resolve Claims in accordance with Section 4.4.

- 4.3.3 *Time Limits on Claims:* Claims by Contractor must be made within 90 days after occurrence of event giving rise to the Claim.
- 4.3.4 Continuing the Contract Performance: Pending final resolution of a Claim including referral to non-binding mediation, unless otherwise agreed in writing, Contractor shall proceed diligently with the performance of the Contract and the City will continue to make payments in accordance with the Contract.
 - 4.3.4.1 Pending final resolution of a Claim including referral to non-binding mediation, Contractor is responsible for safety and protection of physical properties and conditions at site.
- 4.3.5 Claims for Concealed or Unknown Conditions: Concealed or unknown physical conditions include utility lines, other man-made structures, storage facilities, Pollutants and Pollutant Facilities, and the like, but do not include conditions arising from Contractor operations, or failure of Contractor to properly protect and safeguard subsurface facilities. Concealed conditions also include naturally-occurring soil conditions outside the range of soil conditions identified through geotechnical investigations, but do not include conditions arising from groundwater, rain, or flood.
 - 4.3.5.1 If conditions are encountered at the site which are Underground Facilities or otherwise concealed or unknown conditions which differ materially from:
 - 4.3.5.1.1 those indicated by the Contract; or
 - 4.3.5.1.2 conditions which Contractor could have discovered through site inspection, geotechnical testing, or otherwise;

then Contractor will give written notice to City Engineer no later than five days after Contractor's first observation of the condition and before condition is disturbed. Contractor's failure to provide notice constitutes a waiver of a Claim.

4.3.5.2 City Engineer will promptly investigate concealed or unknown conditions. If City Engineer determines that conditions at the site are not materially different and that no change in Contract Price or Contract Time is justified, City Engineer will notify Contractor in writing, stating reasons. If City Engineer determines the conditions differ materially and cause increase or decrease in Contractor's cost or time required for performance of part of the

Work, City Engineer will recommend an adjustment in Contract Price or Contract Time, or both, as provided in Article 7. Opposition by a Party to the City Engineer's determination must be made within 21 days after City Engineer has given notice of the decision. If the Parties cannot agree on adjustment to Contract Price or Contract Time, adjustment is subject to further proceedings pursuant to Section 4.4.

- 4.3.6 Claims for Additional Cost: If Contractor wishes to make a Claim for increase in Contract Price, Contractor shall give written notice before proceeding with work for which Contractor intends to submit a Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.
 - 4.3.6.1 Contractor may file a Claim in accordance with Section 4.4 if Contractor believes it has incurred additional costs, for the following reasons:
 - 4.3.6.1.1 written interpretation of City Engineer;
 - 4.3.6.1.2 order by City Engineer to stop the Work when Contractor is not at fault:
 - 4.3.6.1.3 suspension of the Work by City Engineer;
 - 4.3.6.1.4 termination of the Contract by City Engineer; or
 - 4.3.6.1.5 The City's non-compliance with another provision of the Contract.
 - 4.3.6.2 No increase in Contract Price is allowed for delays or hindrances to the Work, except for direct and unavoidable extra costs to Contractor caused by failure of the City to provide information and services, or to make land and materials available, when required of the City under the Contract. Any increase claimed is subject to the provisions of Section 4.4 and Article 7.
 - 4.3.6.3 The City is not liable for Claims for delay when Date of Substantial Completion occurs prior to expiration of Contract Time.
- 4.3.7 Claims for Additional Time: If Contractor wishes to make a Claim for an increase in Contract Time, Contractor shall give written notice as provided in Section 8.2. In case of continuing delay, only one Claim is necessary.

4.4 RESOLUTION OF CLAIMS AND DISPUTES

- 4.4.1 City Engineer will review Claims and take one or more of the following preliminary actions within 30 days of receipt of Claim:
 - 4.4.1.1 submit a suggested time to meet and discuss the Claim with City Engineer;
 - 4.4.1.2 reject Claim, in whole or in part, stating reasons for rejection;
 - 4.4.1.3 recommend approval of the Claim by the other Party;
 - 4.4.1.4 suggest a compromise; or
 - 4.4.1.5 take other actions as City Engineer deems appropriate to resolve the Claim.
- 4.4.2 City Engineer may request additional supporting data from claimant. Party making Claim shall, within 10 days after receipt of City Engineer's request, submit additional supporting data requested by City Engineer.
- 4.4.3 At any time prior to rendering a written decision regarding a Claim, City Engineer may refer Claim to non-binding mediation. If Claim is resolved, City Engineer will prepare and obtain all appropriate documentation. If Claim is not resolved, City Engineer will take receipt of Claim and begin a new review under Section 4.4.
- 4.4.4 If Claim is not referred to or settled in non-binding mediation, City Engineer may conduct a hearing and will render a written decision, including findings of fact, within 75 days of receipt of Claim, or a time mutually agreed upon by the Parties in writing. City Engineer may notify Surety and request Surety's assistance in resolving Claim. City Engineer's decision is final and binding on the Parties.
- 4.5 CONDITION PRECEDENT TO SUIT; WAIVER OF ATTORNEY FEES AND INTEREST
- 4.5.1 A final decision by the City Engineer is a condition precedent to file suit in any jurisdiction for a claim made in connection with this Contract.
- 4.5.2 Neither the City nor Contractor may recover attorney fees for any claim brought in connection with this Contract.
- 4.5.3 Neither the City nor the Contractor may recover interest for any damages claim brought in connection with this Contract except as allowed by TEXAS LOCAL GOVERNMENT CODE Chapter 2251.

4.6 INTERIM PAYMENT WAIVER & RELEASE

- 4.6.1 In accordance with section 4.3, the Contractor shall use due diligence in the discovery and submission of any Claim against the City related to the Contractor's work.
- 4.6.2 The Contractor shall submit any Claim to the City not later than the 90th day after the occurrence of the event giving rise to the Claim.
- 4.6.3 Any failure to timely comply with the requirements of section 4.6.2 waives and releases any Claim when the Contractor submits an application for payment after the 90th day.
- 4.6.4 This waiver does not cover any retainage. In case of any conflict of law, this language shall be revised to the minimum extent necessary to avoid legal conflict. This waiver is made specifically for the benefit of the City.

ARTICLE 5 - SUBCONTRACTORS AND SUPPLIERS

- 5.1 AWARD OF SUBCONTRACTS OTHER
 CONTRACTS FOR PORTIONS OF
 THE WORK
- 5.1.1 Contractor may not contract with a Subcontractor, Supplier, person, or entity that City Engineer has made a reasonable and timely objection to.
- 5.1.2 If City Engineer has a reasonable objection to person or entity proposed by Contractor, Contractor shall propose another with whom City Engineer has no reasonable objection.
- 5.1.3 Contractor shall execute contracts with approved Subcontractors, Suppliers, persons, or entities before the Subcontractors or Suppliers begin work under the Contract. All such contracts must be executed and sent to the OBO Director and Contracting Department within 30 days after the date of the Notice to Proceed and must include provisions set forth in Articles 3 and 5 of this Document.
- 5.1.4 Contractor shall notify City Engineer in writing of any proposed change of Subcontractor, Supplier, person, or entity previously accepted by the City.
- 5.1.5 Contractor shall make timely payments to Subcontractors and Suppliers for performance of

the Contract. Contractor shall protect, defend, and indemnify the City from any claim or liability arising out of Contractor's failure to make the payments. Disputes relating to payment of Business Enterprise Subcontractors or Suppliers will be submitted to arbitration in same manner as other disputes under Business Enterprise subcontracts. Failure of Contractor to comply with decisions of arbitrator may be determined by City Engineer a material breach leading to termination of the Contract.

5.2 CONTRACTOR RESPONSIBILITY FOR SUBCONTRACTORS

- 5.2.1 Contractor is responsible to the City, as may be required by laws and regulations, for all acts and omissions of Subcontractors, Suppliers, and other persons and organizations performing or furnishing any of the Work under direct or indirect contract with Contractor.
- 5.2.2 Contractor shall make available to each proposed Subcontractor, prior to execution of subcontract, copies of the Contract to which Subcontractor is bound by this Section 5.2. Contractor shall notify Subcontractor of any terms of proposed subcontract which may be at variance with the Contract.
- 5.2.3 The City's approval of Subcontractor or Suppliers does not relieve Contractor of its obligation to perform, or to have performed to the full satisfaction of the City, the Work required by the Contract.
- 5.2.4 Unless there is contractual а relationship between Contractor and Subcontractor or Supplier to the contrary, Contractor more retainage shall withhold no Subcontractors or Suppliers than City withholds from Contractor under this Agreement. However, once a Subcontractor or Supplier completes performance, Contractor shall release all retainage to that Subcontractor or Supplier regardless if City continues to retain under this Agreement.
- 5.2.5 Prior to a Subcontractor or Supplier commencing performance for Contractor, Contractor shall meet with that Subcontractor or Supplier to provide instructions on invoicing procedures, dispute resolution procedures, and statutory rights, such as claim filing procedures under the McGregor Act. Subcontractors and Suppliers must certify to the City Engineer that Contractor has fulfilled the requirements of this Section.

ARTICLE 6 - CONSTRUCTION BY THE CITY OR BY SEPARATE CONTRACTORS

6.1 THE CITY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 The City may perform on-site construction operations related to the Work and as part of the Project with the City's workforce or with separate contractors.

6.2 COORDINATION

- 6.2.1 The City will coordinate activities of the City's workforce and of each separate contractor with work of Contractor, and Contractor shall cooperate with the City and separate contractors.
 - 6.2.1.1 Contractor shall participate with other separate contractors and the City in reviewing their construction schedules when directed to do so by the Project Manager. Contractor shall make revisions to construction schedule and Contract Price deemed necessary after joint review and mutual agreement. Construction schedules shall then constitute schedules to be used by Contractor, separate contractors. and the until Citv. subsequently revised.
- 6.2.2 Contractor shall afford to the City and to separate contractors reasonable opportunity for introduction and storage of their materials and equipment, and for performance of their activities.
- If part of Contractor's work depends on 6.2.3 proper execution of construction or operations by the City or a separate contractor, Contractor shall, prior to proceeding with that portion of the Work, inspect the other work and promptly report to City Engineer apparent discrepancies or defects in the other construction that would render it unsuitable for the proper execution of the Work. Failure of Contractor to report apparent discrepancies or defects in the other construction shall constitute acknowledgment that the City's or separate contractor's completed or partially completed construction is fit and proper to Contractor's work, except receive as discrepancies or defects not then reasonably discoverable.

6.3 MUTUAL RESPONSIBILITY

- 6.3.1 The responsible party bears the costs caused by delays, by improperly timed activities, or by nonconforming construction.
- 6.3.2 Contractor shall promptly remedy damage caused by Contractor to completed or

partially completed construction or to property of the City or separate contractor.

6.3.3 Claims or disputes between Contractor and other City contractors, or subcontractors of other City contractors, working on the Project must be submitted to binding arbitration in accordance with Construction Industry Arbitration Rules of the American Arbitration Association upon demand by any party to the dispute or by the City.

6.4 THE CITY'S RIGHT TO CLEAN UP

6.4.1 If dispute arises among Contractor, separate contractors, and the City as to responsibility under their respective contracts for maintaining premises and surrounding area free from waste materials and rubbish as described in Section 3.21, the City may clean up and allocate cost among those responsible, as determined by City Engineer.

ARTICLE 7 - CHANGES IN THE WORK

7.1 CHANGES

- 7.1.1 Changes in scope of the Work, subject to limitations in Article 7 and elsewhere in the Contract, may be accomplished without invalidating the Contract, or without notifying Surety by:
 - 7.1.1.1 Change Order;
 - 7.1.1.2 Work Change Directive; or
 - 7.1.1.3 Minor Change in the Work.
- 7.1.2 The following types of Change Orders require City Council approval:
 - 7.1.2.1 a single Change Order that exceeds five percent of Original Contract Price,
 - 7.1.2.2 a Change Order which, when added to previous Change Orders, exceeds five percent of Original Contract Price,
 - 7.1.2.3 a Change Order, in which the total value of increases outside of the general scope of work approved by City Council, when added to increases outside the general scope of work approved by City Council in previous Change Orders, exceeds 40 percent of the Original Contract Price, even if the net increase to the Original Contract Price is five percent or less.

In this context, "increase" means an increase in quantity resulting from the addition of locations not within the scope of work approved by City Council, or the addition of types of goods or services not bid as unit price items.

Nothing in this Section is intended to permit an increase of the Contract Price in excess of

the limit set out in TEX. LOC. GOV'T CODE ANN. §252.048 or its successor statute.

7.1.3 Contractor shall proceed promptly to execute changes in the Work provided in Modifications, unless otherwise stated in the Modification.

7.2 WORK CHANGE DIRECTIVES

- 7.2.1 A Work Change Directive cannot change Contract Price or Contract Time, but is evidence that the Parties agree that a change, ordered by directive, will be incorporated in a subsequently issued Change Order as to its effect, if any, on Contract Price or Contract Time.
- 7.2.2 Failure by Contractor to commence work identified in a Work Change Directive within the time specified by City Engineer, or to complete the work in a reasonable period of time, may be determined by City Engineer to be a material breach of Contract.
- 7.2.3 A Work Change Directive is used in the absence of total agreement of the terms of a Change Order. Interim payments are made in accordance with Paragraph 9.6.1.
- 7.2.4 If Contractor signs a Work Change Directive, then Contractor agrees to its terms including adjustment in Contract Price and Contract Time or method for determining them. Agreement by the Parties to adjustments in Contract Price and Contract Time are immediately recorded as a Change Order.
- 7.2.5 City Engineer, by Work Change Directive, may direct Contractor to take measures as necessary to expedite construction to achieve Date of Substantial Completion on or before expiration of Contract Time. When the Work is expedited solely for convenience of the City and not due to Contractor's failure to prosecute timely completion of the Work, then Contractor is entitled to an adjustment in Contract Price equal to actual costs determined in accordance with Article 7.

7.3 ADJUSTMENTS IN CONTRACT PRICE

- 7.3.1 Adjustments in Contract Price are accomplished by Change Order and are based on one of the following methods:
 - 7.3.1.1 mutual acceptance of fixed price, properly itemized and supported by sufficient data to permit evaluation;
 - 7.3.1.2 unit prices stated in the Contract or subsequently agreed upon;

- 7.3.1.3 cost to be determined in a manner agreed upon by the Parties and mutually acceptable fixed or percentage fee; or
- 7.3.1.4 as provided in Paragraph 7.3.2.
- 7.3.2 If Contractor does not agree with a change in Contract Price or Contract Time or the method for adjusting them specified in the Work Change Directive within 21 days from date of the Work Change Directive's issuance, method and adjustment are determined by City Engineer. If Project Manager or Contractor disagree with City Engineer's determination they then may file a Claim in accordance with Section 4.4.
 - 7.3.2.1 If City Engineer determines a method and adjustment in Contract Price under Paragraph 7.3.2, Contractor shall provide, in a form as City Engineer may prescribe, appropriate supporting data for items submitted under Paragraph 7.3.2. Failure to submit the data within 21 days of request for the data by City Engineer shall

| | Overhead | <u>Profit</u> |
|---|------------|---------------|
| to Contractor for change in the Work performed by Subcontractors: | 10 percent | 0 percent |
| to first tier Subcontractors for change in the Work performed by its Subcontractors: | 10 percent | 0 percent |
| to Contractor and Subcontractor for change in the Work performed by their respective firms: | 10 percent | 5 percent |

constitute waiver of a Claim.

- 7.3.2.2 Unless otherwise provided in the Contract, costs for the purposes of this Paragraph 7.3.2 are limited to the following:
 - 7.3.2.2.1 costs of labor, including labor burden as stated below for social security, unemployment insurance, customary and usual fringe benefits required by agreement or custom, and Workers' Compensation insurance:
 - 7.3.2.2.1.1 the maximum labor burden applied to costs of labor for changes in the Work is 55 percent;
 - 7.3.2.2.2 costs of materials, supplies, and equipment, including cost of

- transportation, whether incorporated or consumed;
- 7.3.2.2.3 rental costs of machinery and equipment, exclusive of hand tools, whether rented from Contractor or others, with prior approval of City Engineer;
- 7.3.2.2.4 costs of premiums for Bonds and insurance and permit fees related to the change in the Work:
- 7.3.2.2.5 additional costs of direct supervision of work and field office personnel directly attributable to the change; and
- 7.3.2.2.6 allowances for overhead and profit as stated below.
 - 7.3.2.2.6.1 the maximum allowances for overhead and profit on increases due to Change Orders:
 - 7.3.2.2.6.2 for changes in the performed Work by Contractor and Subcontractors, allowance for overhead and profit are applied to an amount equal to cost of all additions less cost of all deletions to the Work. Allowance for overhead to Contractor and first tier Subcontractors on changes performed by Subcontractors are applied to an amount equal to the sum of all increases to the Work by applicable Subcontractors.
- 7.3.3 If the City deletes or makes a change, which results in a net decrease in Contract Price, the City is entitled to a credit calculated in accordance with Paragraphs 7.3.1 and 7.3.2 and Subparagraphs 7.3.2.1, and 7.3.2.2.1 through 7.3.2.2.5. When both additions and credits covering related work or substitutions are involved in a change, allowance for overhead and profit is figured on the basis of a net increase, if any, with respect to that change in accordance with Subparagraph 7.3.2.2.6.
- 7.3.4 When Contractor agrees with the determination made by City Engineer concerning adjustments in Contract Price and Contract Time, or the Parties otherwise reach agreement upon the adjustments, the agreement will be immediately recorded by Change Order.

7.4 MINOR CHANGES IN THE WORK

7.4.1 A Minor Change in Work is binding on the Parties. Contractor shall acknowledge, in a written form acceptable to City Engineer, that there is no change in Contract Time or Contract Price and shall carry out the written orders promptly.

ARTICLE 8 - TIME

8.1 PROGRESS AND COMPLETION

- 8.1.1 Time is of the essence in the Contract. By executing the Contract, Contractor agrees that Contract Time is a reasonable period for performing the Work.
- 8.1.2 Computation of Time: In computing any period of time prescribed or allowed by the General Conditions, the day of the act, event, or default after which designated period of time begins to run is not to be included. Last day of the period so computed is to be included, unless it is a Sunday or Legal Holiday, in which event the period runs until end of next day which is not a Sunday or Legal Holiday. Sundays and Legal Holidays are considered to be days and are to be included in all other time computations relative to Contract Time.
- 8.1.3 Contractor may not commence the Work prior to the effective date of insurance and Bonds required by Article 11.
- 8.1.4 Contractor shall proceed expeditiously and without interruption, with adequate forces, and shall achieve Date of Substantial Completion within Contract Time.
- 8.1.5 Should progress of the Work fall behind construction schedule, except for reasons stated in Paragraph 8.2.1, Contractor shall promptly submit at the request of Project Manager, updated construction schedule to City Engineer for approval. Contractor's failure to submit updated schedule may, at City Engineer's discretion, constitute a material breach of the Contract. Contractor shall take action necessary to restore progress by working the hours, including night shifts and lawful overtime operations as necessary, to achieve Date of Substantial Completion within Contract Time.
- 8.1.6 Except in connection with safety or protection of persons or the Work or property at the site or adjacent to the site, and except as otherwise indicated in the Contract, all the Work at the site will be performed Monday through Saturday between the hours of 7:00 a.m. and 7:00 p.m. Contractor

may not perform work between 7:00 p.m. and 7:00 a.m., on a Sunday, or on a Legal Holiday, without giving City Engineer 24-hour prior written notice and receiving written consent of City Engineer.

8.2 DELAYS AND EXTENSIONS OF TIME

8.2.1 Contractor may request extension of Contract Time for a delay in performance of work that arises from causes beyond control and without fault or negligence of Contractor. Examples of these causes are:

| 8.2.1.1 | acts of God or of the public enemy; | | | |
|-----------------------------------|-------------------------------------|--|--|--|
| 8.2.1.2 | acts of government in its sovereign | | | |
| | capacity; | | | |
| 8.2.1.3 | fires; | | | |
| 8.2.1.4 | floods; | | | |
| 8.2.1.5 | epidemics; | | | |
| 8.2.1.6 | quarantine restrictions; | | | |
| 8.2.1.7 | strikes; | | | |
| 8.2.1.8 | freight embargoes; | | | |
| 8.2.1.9 | unusually severe weather; and | | | |
| 8.2.1.10 | discovery of Pollutants or | | | |
| Pollutant Facilities at the site. | | | | |

- 8.2.2 For any reason other than those listed in Section 4.3.6.2, if the Contractor's work is delayed in any manner or respect, the Contractor shall have no claim for damages and shall have no right of additional compensation from the City by reason of any delay or increased expense to the Contractor's work, except for an extension of time as provided in this provision.
- 8.2.3 Contractor may request an extension of Contract Time for delay only if:
 - 8.2.3.1 delay is caused by failure of Subcontractor or Supplier to perform or make progress; and
 - 8.2.3.2 cause of failure is beyond control of both Contractor and Subcontractor or Supplier.
- 8.2.4 Claims relating to Contract Time must be made in accordance with Paragraph 4.3.7.
- 8.2.5 Claims for extending or shortening Contract Time are based on written notice promptly delivered by the Party making Claim to other Party. Claim must accurately describe occurrence generating Claim, and a statement of probable effect on progress of the Work.
- 8.2.6 Claims for extension of Contract Time are considered only when a Claim is filed within the time limits stated in Paragraph 4.3.3.
 - 8.2.6.1 Notwithstanding paragraph 4.3.3, an extension of time for delays under this paragraph may be granted only upon

written application by the Contractor within 48 hours from the claimed delay.

- 8.2.7 Written notice of Claim must be accompanied by claimant's written statement that adjustment claimed is entire adjustment to which claimant is entitled as a result of the occurrence of the event. When the Parties cannot agree, Claims for adjustment in Contract Time are determined by City Engineer in accordance with Section 4.4.
- 8.2.8 Adjustments to Contract Time are accomplished by Change Order.

ARTICLE 9 - PAYMENTS AND COMPLETION

9.1 UNIT PRICE WORK

- 9.1.1 Where the Contract provides that all or part of the Work is based on Unit Prices, the Original Contract Price includes, for all Unit Price work, an amount equal to the sum of Unit Prices times Unit Price Quantities for each separately identified item of Unit Price work.
- 9.1.2 Each Unit Price includes an amount to cover Contractor's overhead and profit for each separately identified item.
- 9.1.3 The Contractor may not make a Claim against the City for excess or deficiency in Unit Price Quantities provided in the Contract, except as provided in Subparagraph 9.1.4. Payment at the prices stated in the Contract is in full for the completed work. Contractor is not entitled to additional payment for materials, supplies, labor, tools, machinery and all other expenditures incidental to satisfactory completion of the Work.
- 9.1.4 City Engineer may increase or decrease quantities of the Work within limitations stated in Paragraph 7.1.2. Contractor is entitled to payment for actual quantities of items provided at Unit Prices set forth in the Contract.
- 9.1.5 Where the final quantity of work performed by Contractor on Major Unit Price Work item differs by more than 25 percent from quantity of the item stated in the Contract, a Party may request an adjustment in Unit Price, for the portion that differs by more than 25 percent, by a Change Order under Section 7.3.

9.2 ESTIMATES FOR PAYMENT, UNIT PRICE WORK

9.2.1 Following the day of each month indicated in the Contract, Project Manager will

prepare a Certificate for Payment for the preceding monthly period based on estimated units of work completed. Prior to preparing Certificate of Payment, Contractor shall have submitted to City Engineer, on a form approved by the Director of the Office of Business Opportunity, evidence satisfactory to the City Engineer of payments made to Subcontractors and Suppliers for the month preceding the month for which the Certificate for Payment is prepared, including evidence of electronic submission of certified payrolls.

Before final completion, City Engineer 9.2.2 will review and confirm with Contractor the actual final installed Unit Price quantities. City Engineer's determination of actual final installed Unit Price quantities will be included in the final Certificate for Payment and any previous underpayments and overpayments will be reconciled with the actual final Unit Price quantities. Contractor shall file written notice of intent to appeal, if any, City Engineer's determination within 10 days of receipt of final Certificate for Payment. Upon expiration of the 10day period, City Engineer's decision is final and binding on the Parties. If Contractor submits notice within the 10-day period, Contractor shall submit a Claim in accordance with Section 4.4.

9.3 STIPULATED PRICE WORK

9.3.1 For work contracted on a Stipulated Price basis, 10 days before submittal of first Application for Payment, Contractor shall submit to City Engineer a Schedule of Values allocated to various portions of the Work, prepared in the form and supported by the data as City Engineer may require to substantiate its accuracy. This schedule, as approved by City Engineer, is used as a basis for approval of Contractor's Applications for Payment.

9.4 APPLICATIONS FOR PAYMENT, STIPULATED PRICE WORK

- 9.4.1 For work contracted on a Stipulated Price basis, Contractor shall submit Applications for Payment to City Engineer each month on a form acceptable to City Engineer in accordance with Schedule of Values. Application must indicate percentages of completion of each portion of the Work listed in Schedule of Values as of the end of the period covered by the Application for Payment.
- 9.4.2 Applications for Payment must be supported by substantiating data as City Engineer may require and must reflect retainages as provided below. Evidence satisfactory to the City Engineer of payments made to Subcontractors and Suppliers for the month preceding the month for which the Application for Payment is submitted must

accompany each Application for Payment on a form approved by the Director of the Office of Business Opportunity. Evidence of electronic submission of certified payrolls must be included. Application must be sworn and notarized.

9.5 CERTIFICATES FOR PAYMENT

- 9.5.1 City Engineer will, within 10 days after the date specified in the Contract for Unit Price work, or upon receipt of Contractor's Application for Payment for Stipulated Price work, issue a Certificate for Payment for work based on amount which City Engineer determines is properly due, with copy to Contractor.
- 9.5.2 Unless otherwise provided in the Contract, payment for completed work and for properly stored Products is conditioned upon compliance with procedures satisfactory to City Engineer to protect the City's interests. Procedures will include applicable insurance, storage, and transportation to site for materials and equipment stored off-site. Contractor is responsible for maintaining materials and equipment until Date of Substantial Completion.
- 9.5.3 Contractor shall document its use of Ultra Low Sulfur Diesel Fuel by providing invoices and receipts evidencing Contractor's use.

9.6 COMPUTATIONS OF CERTIFICATES FOR PAYMENT

- 9.6.1 Subject to the provisions of the Contract, the amount of each Certificate for Payment is calculated as follows:
 - 9.6.1.1 that portion of Contract Price allocated to completed work as determined by:
 - 9.6.1.1.1 multiplying the percentage of completion of each portion of the Work listed in the Schedule of Values by the value of that portion of the Work, or
 - 9.6.1.1.2 multiplying Unit Price quantities Installed times the Unit Prices listed in the Contract;
 - 9.6.1.2 plus progress payments for completed work that has been properly authorized by Modifications;
 - 9.6.1.3 less retainage of five percent;
 - 9.6.1.4 plus actual costs, properly substantiated by certified copies of invoices and freight bills, of non-perishable materials and equipment delivered and properly stored, if approved in advance by Project Manager, less 15 percent;
 - 9.6.1.5 less any previous payments by the City.

9.7 DECISIONS TO WITHHOLD CERTIFICATION

- 9.7.1 City Engineer may decline to certify payment and may withhold payment in whole or in part to the extent reasonably necessary to protect the City if, in City Engineer's opinion, there is reason to believe that:
 - 9.7.1.1 nonconforming work has not been remedied:
 - 9.7.1.2 the Work cannot be completed for unpaid balance of Contract Price;
 - 9.7.1.3 there is damage to the City or another contractor;
 - 9.7.1.4 the Work will not be completed within Contract Time and that unpaid balance will not be adequate to cover actual and liquidated damages;
 - 9.7.1.5 probable evidence that third party claims will be filed in court, in arbitration, or otherwise:
 - 9.7.1.6 Contractor has failed to make payments to Subcontractors or Suppliers for labor, material, or equipment; or
 - 9.7.1.7 Contractor has persistently failed to carry out work in accordance with the Contract.
 - 9.7.1.8 Contractor has not paid Subcontractors or Suppliers because of a payment dispute; or
 - 9.7.1.9 Contractor has failed to provide satisfactory evidence described in Paragraphs 9.2.1, 9.4.2, and 9.8.2.
- 9.7.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.
- 9.7.3 City Engineer may decline to certify payment and may withhold request for payment in whole or in part upon failure of Contractor to submit initial construction schedule or monthly schedule updates, as required in Paragraphs 3.15.1 and 3.15.3.

9.8 PROGRESS PAYMENTS

- 9.8.1 The City will make payment, in an amount certified by City Engineer, within 20 days after City Engineer has issued a Certificate for Payment.
- 9.8.2 The City has no obligation to pay or to facilitate the payment to a Subcontractor or Supplier, except as may otherwise be required by law. Contractor shall comply with the prompt payment requirements of Chapter 2251 of the Government Code. State law requires payment of Subcontractors and Suppliers by Contractor within 7

calendar days of Contractor's receipt of payment from the City, unless there is a payment dispute between Contractor and a Subcontractor or Supplier evidenced on a form approved by the Director of Mayor's Office of Business Opportunity and submitted to the City Engineer each month with Application for Payment or Estimate for Payment. CONTRACTOR SHALL DEFEND AND INDEMNIFY THE CITY FROM ANY CLAIMS OR LIABILITY ARISING OUT OF CONTRACTOR'S FAILURE TO MAKE THESE PAYMENTS.

- 9.8.2.1 The City may, upon request and at the discretion of City Engineer, furnish to Subcontractor information regarding percentages of completion or the amounts applied for by Contractor, and action taken thereon by the City because of work done by the Subcontractor.
- 9.8.2.2 Contractor shall prepare and submit to City Engineer a Certification of Payment to Subcontractors and Suppliers form to be attached to each monthly Estimate for Payment or Application for Payment.
- 9.8.3 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Work by the City, does not constitute acceptance of work which is not in accordance with the Contract.

9.9 DATE OF SUBSTANTIAL COMPLETION

- 9.9.1 When Contractor considers the Work, or a portion thereof designated by City Engineer, to be substantially complete, Contractor shall prepare and submit to Project Manager a comprehensive punch list of items to be completed or corrected. Failure to include an item on the punch list does not alter the responsibility of Contractor to comply with the Contract.
 - 9.9.1.1 By submitting the punch list to Project Manager, Contractor represents that work on the punch list will be completed within the time provided for in Subparagraph 9.9.4.3.
- 9.9.2 Upon receipt of Contractor's punch list, Project Manager will inspect the Work, or designated portion thereof, to verify that the punch list contains all items needing completion or correction. If Project Manager's inspection discloses items not on Contractor's punch list, the items must be added to the punch list of items to be completed or corrected. If Project Manager's inspection reveals that Contractor is not yet substantially complete,

Contractor shall complete or correct the deficiencies and request another inspection by Project Manager. The City may recover the costs of re-inspection from Contractor.

- 9.9.3 Prior to City Engineer's issuing a Certificate of Substantial Completion, Contractor shall also provide:
 - 9.9.3.1 Certificate of Occupancy for new construction, or Certificate of Compliance for remodeled work, as applicable, and
 - 9.9.3.2 compliance with Texas Accessibility Standards through state inspection of the Work, if required. If Contractor calls for inspection in a timely manner and the inspection is delayed through no fault of Contractor, and City Engineer so confirms, City Engineer may, upon request by Contractor, add the inspection to the punch list in Paragraph 9.9.2 and issue a Certificate of Substantial Completion.
- 9.9.4 When the Work, or designated portion thereof, is determined by City Engineer to be sufficiently complete in accordance with the Contract so the City can occupy or utilize the Work, or designated portion thereof, for the purpose for which it is intended, City Engineer will prepare a Certificate of Substantial Completion that incorporates the punch list in Paragraph 9.9.2 and establishes:
 - 9.9.4.1 Date of Substantial Completion;
 - 9.9.4.2 responsibilities of the Parties for security, maintenance, heating, ventilating and air conditioning, utilities, damage to the Work, and insurance: and
 - 9.9.4.3 fixed time within which Contractor shall complete all items on punch list of items to be corrected accompanying the certificate.
- 9.9.5 Warranties required by the Contract shall commence on the Date of Substantial Completion unless otherwise provided by City Engineer in Certificate of Substantial Completion. Warranties may not commence on items not substantially completed.
- 9.9.6 After Date of Substantial Completion and upon application by Contractor and approval by City Engineer, the City may make payment, reflecting adjustment in retainage, if any, as follows:
 - 9.9.6.1 with the consent of Surety, the City may increase payment to Contractor to 96 percent of Contract Price, less value of items to be completed and accrued liquidated damages.
- 9.9.7 Contractor shall complete or correct the items in Paragraph 9.9.2 within the time period set out in the Certificate of Substantial Completion. If

Contractor fails to do so, the City may issue a Notice of Noncompliance and proceed according to Section 2.5.

9.10 PARTIAL OCCUPANCY OR USE

- 9.10.1 The City may occupy or use any completed or partially completed portion of the Work at any stage, provided the occupancy or use is consented to by Contractor and Contractor's insurer and authorized by public authorities having jurisdiction over the Work. Consent of Contractor to partial occupancy or use may not be unreasonably withheld.
- 9.10.2 Immediately prior to the partial occupancy or use, Project Manager and Contractor shall jointly inspect the area to be occupied or portion of the Work to be used to determine and record condition of the Work.
- 9.10.3 Partial occupancy or use of a portion of the Work does not constitute acceptance of work not in compliance with requirements of the Contract.

9.11 FINAL COMPLETION AND FINAL PAYMENT

- 9.11.1 Contractor shall review the Contract and inspect the Work prior to Contractor notification to City Engineer that the Work is complete and ready for final inspection. Contractor shall submit affidavit that the Work has been inspected and that the Work is complete in accordance with requirements of the Contract.
- 9.11.2 Proiect Manager will make inspection within 15 days after receipt of Contractor's written notice that the Work is ready for final inspection and acceptance. If Project Manager finds the Work has been completed in accordance with the Contract, Contractor shall submit items set out in Paragraph 9.11.4 and, for stipulated price contracts, a final Application for Payment. Engineer will, within 10 days, issue Certificate of Final Completion stating that to the best of City Engineer's knowledge, information, and belief, the Work has been completed in accordance with the Contract, and will recommend acceptance of the Work by City Council.
- 9.11.3 Should work be found not in compliance with requirements of the Contract, City Engineer will notify Contractor in writing of items of noncompliance. Upon inspection and acceptance of the corrections by Project Manager, compliance with all procedures of Paragraph 9.11.2, and Contractor's submission of the items set out in Paragraph 9.11.4,

- the City Engineer will issue Certificate of Final Completion to Contractor as provided in Paragraph 9.11.2.
- 9.11.4 Contractor shall submit the following items to City Engineer before City Engineer will issue a Certificate of Final Completion:
 - 9.11.4.1 affidavit that payrolls, invoices for materials and equipment, and other indebtedness of Contractor connected with the Work, less amounts withheld by the City, have been paid or otherwise satisfied. If required by City Engineer, Contractor shall submit further proof including waiver or release of lien or claims from laborers or Suppliers of Products;
 - 9.11.4.2 certificate evidencing that insurance required by the Contract to remain in force after final payment is currently in effect, will not be canceled or materially changed until at least 30 days written notice has been given to the City;
 - 9.11.4.3 written statement that
 Contractor knows of no substantial reason
 that insurance will not be renewable to
 cover correction and warranty period
 required by the Contract;
 - 9.11.4.4 consent of Surety to final payment; and
 - 9.11.4.5 copies of record documents, maintenance manuals, tests, inspections, and approvals.

Upon City Engineer's issuance of a Certificate of Final Completion, Contractor may request increase in payment to 99 percent of Contract Price, less accrued liquidated damages.

- 9.11.5 If Contractor fails to submit required items in Paragraph 9.11.4 within 10 days of Project Manager's inspection of the Work under Paragraph 9.11.2 or Paragraph 9.11.3, City Engineer may, but is not obligated to:
 - 9.11.5.1 deduct liquidated damages accrued from monies held;
 - 9.11.5.2 proceed to City Council for acceptance of the Work, minus some or all of the items Contractor fails to submit under Paragraph 9.11.4; and,
 - 9.11.5.3 upon acceptance by City Council of the portion of the Work completed, make final payment as set out in Paragraph 9.11.8.
- 9.11.6 If final completion is materially delayed through no fault of Contractor, or by issuance of Change Orders affecting date of final completion, and City Engineer so confirms, the City may, upon

application by Contractor and certification by City Engineer, and without terminating the Contract, make payment of balance due for that portion of the Work fully completed and accepted.

- 9.11.7 If remaining balance due for work not corrected is less than retainage stipulated in the Contract, Contractor shall submit to City Engineer written consent of Surety to payment of balance due for that portion of the Work fully completed and accepted, prior to certification of the payment. The payment is made under terms governing final payment, except that it does not constitute waiver of Claims.
- 9.11.8 The City will make final payment to Contractor within 30 days after acceptance of the Work by City Council, subject to limitations, if any, as stated in the Contract.
- 9.11.9 Acceptance of final payment by Contractor shall constitute a waiver of all Claims, whether known or unknown, by Contractor, except those previously made in writing and identified by Contractor as unsettled at the time of final payment.

9.12 LIQUIDATED DAMAGES

- 9.12.1 Contractor, Surety, and the City agree that failure to complete the Work within Contract Time will cause damages to the City and that actual damages from harm are difficult to estimate accurately. Therefore, Contractor, Surety, and the City agree that Contractor and Surety are liable for and shall pay to the City the amount stipulated in Supplementary Conditions as liquidated damages, and that the amount of damages fixed therein is a reasonable forecast of just compensation for harm to the City resulting from Contractor's failure to complete the Work within Contract Time. The amount stipulated will be paid for each day of delay beyond Contract Time until Date of Substantial Completion.
- 9.12.2 Contractor shall pay the City an amount equal to \$1,200.00 per diesel operating vehicle or piece of motorized equipment per incident of high sulfur diesel fuel usage.

ARTICLE 10 - SAFETY PRECAUTIONS

10.1 SAFETY PROGRAMS

10.1.1 Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with performance of the Contract. Contractor shall submit a safety program to City Engineer prior to mobilizing for the Work, and

is solely responsible for safety, efficiency, and adequacy of ways, means, and methods, and for damage which might result from failure or improper construction, maintenance, or operation performed by Contractor.

10.2 POLLUTANTS AND POLLUTANT FACILITIES

- 10.2.1 If Contractor encounters material on-site which it reasonably believes to be a Pollutant or facilities which it reasonably believes to be a Pollutant Facility, Contractor shall immediately stop work in affected area and immediately notify City Engineer, confirming the notice thereafter in writing.
- 10.2.2 If City Engineer determines that the material is a Pollutant or facility is a Pollutant Facility, work in affected area may not be resumed except by Modification, and only if the work would not violate applicable laws or regulations.
- 10.2.3 If City Engineer determines that the material is not a Pollutant or a facility is not a Pollutant Facility, work in affected area will be resumed upon issuance of a Modification.
- 10.2.4 Contractor is not required to perform, unless authorized by Change Order, work relating to Pollutants or Pollutant Facilities except for that work relating to Pollutants or Pollutant Facilities specified in the Contract.

10.3 SAFETY OF THE ENVIRONMENT, PERSONS. AND PROPERTY

- 10.3.1 Contractor shall take reasonable precautions for safety and shall provide reasonable protection to prevent damage, injury, or loss from all causes. to:
 - 10.3.1.1 employees performing work on-site, and other persons who may be affected thereby;
 - 10.3.1.2 work, including Products to be incorporated into the Work, whether in proper storage, under control of Contractor or Subcontractor; and
 - 10.3.1.3 other property at or adjacent to the site, such as trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal or replacement in course of construction.
- 10.3.2 Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on safety of persons, property, or environment.

- 10.3.2.1 Contractor shall comply with requirements of Underground Facility Damage Prevention and Safety Act TEX. UTIL. CODE ANN. Ch. 251 (Vernon Supp. 2002).
- 10.3.2.2 Contractor shall comply with all safety rules and regulations of the Federal Occupational Health and Safety Act of 1970 and subsequent amendments (OSHA).
- 10.3.3 Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection of persons and property, including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.
- 10.3.4 Contractor shall designate responsible member of Contractor's organization at site whose duty is prevention of accidents. This person will be Contractor's Superintendent unless otherwise designated by Contractor in writing to City Engineer.
- 10.3.5 Contractor shall prevent windblown dust and may not burn or bury trash debris or waste products on-site. Contractor shall prevent environmental pollution, including but not limited to particulates, gases and noise, as a result of the Work.
- 10.3.6 When use or storage of hazardous materials or equipment, or unusual methods are necessary for execution of the Work, Contractor shall exercise utmost care and carry on the activities under supervision of properly qualified personnel.
- 10.3.7 Contractor shall promptly remedy damage and loss to property referred to in Subparagraphs 10.3.1.2 and 10.3.1.3, caused in whole or in part by Contractor, or Subcontractors, which is not covered by insurance required by the Contract. Contractor is not required to remedy damage or loss attributable to the City, Design Consultant, or other contractors.

10.4 EMERGENCIES

10.4.1 In emergencies affecting safety of persons or property, Contractor shall act at Contractor's discretion to prevent imminent damage, injury, or loss. Additional compensation or extension of time claimed by Contractor because of emergencies are determined as provided in Article 7

ARTICLE 11 - INSURANCE AND BONDS

11.1 GENERAL INSURANCE REQUIREMENTS

- 11.1.1 With no intent to limit Contractor's liability under indemnification provisions set forth in Paragraphs 3.25 and 3.26, Contractor shall provide and maintain in full force and effect during term of the Contract and all extensions and amendments thereto, at least the following insurance and available limits of liability.
- 11.1.2 If any of the following insurance is written as "claims made" coverage and the City is required to be carried as additional insured, then Contractor's insurance shall include a two-year extended discovery period after last date that Contractor provides any work under the Contract.
- 11.1.3 Aggregate amounts of coverage, for purposes of the Contract, are agreed to be amounts of coverage available during fixed 12-month policy period.

11.2 INSURANCE TO BE PROVIDED BY CONTRACTOR

- 11.2.1 Risks and Limits of Liability: Contractor shall maintain the insurance coverages in the listed amounts, as set out in Table 1.
- 11.2.2 If Limit of Liability for Excess Coverage is \$2,000,000 or more, Limit of Liability for Employer's Liability may be reduced to \$500,000.
- 11.2.3 Insurance Coverage: At all times during the term of this Contract and any extensions or renewals, Contractor shall provide and maintain insurance coverage that meets the Contract requirements. Prior to beginning performance under the Contract, at any time upon the Director's request, or each time coverage is renewed or updated, Contractor shall furnish to the Director current certificates of insurance, endorsements, all policies, or other policy documents evidencing adequate coverage, as necessary. Contractor shall be responsible for and pay (a) all premiums and (b) any claims or losses to the extent of any deductible amounts. Contractor waives any claim it may have for premiums or deductibles against the City, its officers, agents, or employees. Contractor shall also require all subcontractors or consultants whose subcontracts exceed \$100,000 to provide proof of insurance coverage meeting all requirements stated above except amount. The amount must be

commensurate with the amount of the subcontract, but no less than \$500,000 per claim.

- Form of insurance: The form of the 11.2.4 insurance shall be approved by the Director and the City Attorney; such approval (or lack thereof) shall never (a) excuse non-compliance with the terms of this Section, or (b) waive or estop the City from asserting its rights to terminate this Contract. The policy issuer shall (1) have a Certificate of Authority to transact insurance business in Texas, or (2) be an eligible non-admitted insurer in the State of Texas and have a Best's rating of at least B+, and a Best's Financial Size Category of Class VI or better, according to the most current Best's Key Rating Guide. Each insurer is subject to approval by City Engineer in City Engineer's sole discretion as to conformance with these requirements.
- Required Coverage: The City shall be an Additional Insured under this Contract, and all policies except Professional Liability and Worker's Compensation must name the City as an Additional Insured. Contactor waives any claim or right of subrogation to recover against the City, its officers, agents, or employees, and each of Contractor's insurance policies except professional liability must contain coverage waiving such claim. Each policy, except Workers' Compensation and Professional Liability, must also contain an endorsement that the policy is primary to any other insurance available to the Additional Insured with respect to claims arising under this Contract. If professional liability coverage is written on a "claims made" basis, Contractor shall also provide proof of renewal each year for two years after substantial completion of the Project, or in the alternative: evidence of extended reporting period coverage for a period of two years after substantial completion, or a project liability policy for the Project covered by this Contract with a duration of two years after substantial completion.
- 11.2.6 *Deductibles:* Contractor assumes and bears any claims or losses to extent of deductible amounts and waives any claim it may ever have for same against the City, its officers, agents, or employees.
- 11.2.7 Notice: CONTRACTOR SHALL GIVE
 30 DAYS' ADVANCE WRITTEN NOTICE TO THE
 DIRECTOR IF ANY OF ITS INSURANCE
 POLICIES ARE CANCELED OR NON-RENEWED.
 Within the 30-day period, Contractor shall provide
 other suitable policies in order to maintain the
 required coverage. If Contractor does not comply
 with this requirement, the Director, at his or her sole
 discretion, may immediately suspend Contractor
 from any further performance under this Agreement
 and begin procedures to terminate for default.

- 11.2.8 Subrogation: Contractor waives any claim or right of subrogation to recover against the City, its officers, agents, or employees. Each policy, except professional liability, must contain an endorsement waiving such claim.
- 11.2.9 Endorsement of Primary Insurance: Each policy, except Workers' Compensation policies, must contain an endorsement that the policy is primary insurance to any other insurance available to additional insured with respect to claims arising hereunder.
- 11.2.10 *Liability for Premium:* Contractor is solely responsible for payment of all insurance premium requirements hereunder and the City is not obligated to pay any premiums.
- 11.2.11 Additional Requirements for Workers' Compensation Insurance Coverage: Contractor shall, in addition to meeting the obligations set forth in Table 1, maintain throughout the term of the Contract Workers' Compensation coverage as required by statute, and Contractor shall specifically comply with requirements set forth in Paragraph 11.2.10. The definitions set out below shall apply only for purposes of this Paragraph 11.2.10.

11.2.12 Definitions:

- 11.2.12.1 Certificate of Coverage: A copy of certificate of insurance, or coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory Workers' Compensation insurance coverage for Contractor's, Subcontractor's, or Supplier's employees providing services for the duration of the Contract.
- 11.2.12.2 Duration of the Work: Includes the time from Date of Commencement of the Work until Contractor's work under the Contract has been completed and accepted by City Council.
- Persons providing services for the 11.2.12.3 Work (Subcontractor in Texas Labor Code includes all persons or § 406.096): entities performing all or part of services Contractor has undertaken to perform on the Work, regardless of whether that person contracted directly with Contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of the entity, or employees of entity which furnishes persons to provide services on Services include, without the Work.

limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to the Work. Services do not include activities unrelated to the Work, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

- 11.2.13 Contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of coverage agreements, which meets the statutory requirements of Tex. Lab. Code Ann., Section 401.011(44) for employees of Contractor providing services on the Work, for duration of the Work.
- 11.2.14 Contractor shall provide a Certificate of Coverage to the City prior to being awarded the Contract.
- 11.2.15 If coverage period shown on Contractor's original Certificate of Coverage ends during duration of the Work, Contractor shall file new Certificate of Coverage with the City showing that coverage has been extended.
- 11.2.16 Contractor shall obtain from each person providing services on the Work, and provide to City Engineer:
 - 11.2.16.1 Certificate of Coverage, prior to that person beginning work on the Work, so the City will have on file Certificates of Coverage showing coverage for all persons providing services on the Work; and
 - 11.2.16.2 no later than seven days after receipt by Contractor, new Certificate of Coverage showing extension of coverage, if coverage period shown on current Certificate of Coverage ends during the duration of the Work.
- 11.2.17 Contractor shall retain all required Certificates of Coverage for the duration of the Work and for one year thereafter.
- 11.2.18 Contractor shall notify City Engineer in writing by certified mail or personal delivery, within 10 days after Contractor knew or should have known, of any change that materially affects provision of coverage of any person providing services on the Work.
- 11.2.19 Contractor shall post on-site a notice, in text, form and manner prescribed by Texas Workers' Compensation Commission, informing all persons providing services on the Work that they are

required to be covered, and stating how person may verify coverage and report lack of coverage.

- 11.2.20 Contractor shall contractually require each person with whom it contracts to provide services on the Work to:
 - 11.2.20.1 provide coverage, based on proper reporting of classification codes, payroll amounts and filing of any coverage agreements, which meets statutory requirements of TEX. LAB. CODE ANN., Section 401.011(44) for all its employees providing services on the Work, for the duration of the Work;
 - 11.2.20.2 provide to Contractor, prior to that person's beginning work on the Work, a Certificate of Coverage showing that coverage is being provided for all employees of the person providing services on the Work, for the duration of the Work:
 - 11.2.20.3 provide Contractor, prior to the end of the coverage period, a new Certificate of Coverage showing extension of coverage, if the coverage period shown on the current Certificate of Coverage ends during the duration of the Work;
 - 11.2.20.4 obtain from each other person with whom it contracts, and provide to Contractor: (1) Certificate of Coverage, prior to other person's beginning work on the Work; and (2) new Certificate of Coverage showing extension of coverage, prior to end of coverage period, if coverage period shown on the current Certificate of Coverage ends during duration of the Work.
 - 11.2.20.5 retain all required Certificates of Coverage on file for the duration of the Work and for one year thereafter;
 - 11.2.20.6 notify City Engineer in writing by certified mail or personal delivery within 10 days after person knew, or should have known, of change that materially affects provision of coverage of any person providing services on the Work; and
 - 11.2.20.7 contractually require each person with whom it contracts to perform as required by Paragraphs 11.2.10.1 through 11.2.10.7, with Certificates of Coverage to be provided to person for whom they are providing services.
- 11.2.21 By signing the Contract or providing or causing to be provided a Certificate of Coverage, Contractor is representing to the City that all

employees of Contractor who will provide services on the Work will be covered by Workers' Compensation coverage for the duration of the Work, that coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with appropriate insurance carrier. Contractor is not allowed to self-insure Workers' Compensation. Contractor may be subject to administrative penalties, criminal penalties, civil penalties, or other civil actions for providing false or misleading information.

11.2.22 Contractor's failure to comply with Paragraph 11.2.10 is a breach of the Contract by Contractor, which entitles the City to declare the Contract void if Contractor does not remedy breach within 10 days after receipt of notice of breach from City Engineer.

Subcontractor Insurance Requirements: 11.2.23 Contractor shall require Subcontractors and Suppliers to obtain Commercial General Liability, Workers' Compensation, Employer's Liability and Automobile Liability coverage that meets all the requirements of Paragraph 11.2. The amount must be commensurate with the amount of the subcontract, but not less than \$500,000 per occurrence. Contractor shall require Subcontractors with whom it contracts directly, whose subcontracts exceed \$100,000, to provide proof of Commercial General Liability and Automobile Liability insurance coverage meeting the above requirements. Contractor shall comply with all requirements set out under Paragraph 11.2.10 as to Workers' Compensation Insurance for all Subcontractors and Suppliers.

TABLE 1 REQUIRED COVERAGE

| THE GOTTLED | NEGOTIED GOVERNOE | | | |
|--|--|--|--|--|
| Coverage | Limit of Liability | | | |
| 1. Workers' Compensation | Texas Statutory Limits for Workers' Compensation | | | |
| 2. Employer's Liability | Bodily Injury by Accident \$1,000,000 (each accident) Bodily Injury by Disease \$1,000,000 (policy limit) Bodily Injury by Disease \$1,000,000 (each employee) | | | |
| 3. Commercial General Liability: Including Broad Form Property Damage, Contractual Liability, Explosion, Underground and Collapse, Bodily Injury, Personal Injury, Products, and Completed Operations (for a period of one year following completion of the Work). | \$1,000,000 Limit (each occurrence), subject to general aggregate Limit of \$2,000,000 Products and Completed Operations \$2,000,000 aggregate Limit | | | |
| 4. Owner's and Contractor's Protective Liability | \$1,000,000 each Occurrence/ aggregate | | | |
| 5. Installation Floater (Unless alternative coverage approved by City Attorney) | Value of stored material or equipment, listed on Certificates of Payments, but not yet incorporated into the Work | | | |
| 6. Automobile Liability Insurance: (For automobiles furnished by Contractor in course of his performance under the Contract, including Owned, Non-owned, and Hired Auto coverage) | \$1,000,000 combined single limit each occurrence for (1) Any Auto or (2) All Owned, Hired, and Non-Owned Autos | | | |
| 7. Excess Coverage | \$1,000,000 each occurrence/ aggregate in excess of limits specified for Commercial General Liability, and Automobile Liability | | | |
| Aggregate Limits are per 12-month policy period unless otherwise indicated. | | | | |

11.3.1 Prior to commencing services and at time during the term of the Contract, Contractor shall furnish City Engineer with Certificates of Insurance, along with Affidavit from Contractor confirming that

Certificate accurately reflects insurance coverage that is available during term of the Contract. If requested in writing by City Engineer, Contractor shall furnish City Engineer with certified copies of Contractor's actual insurance policies. Failure of Contractor to provide certified copies, as requested, may be deemed, at City Engineer's or City Attorney's discretion, a material breach of the Contract.

- 11.3.2 Notwithstanding the proof of insurance requirements, Contractor shall continuously maintain in effect required insurance coverage set forth in Paragraph 11.2. Failure of Contractor to comply with this requirement does constitute a material breach by Contractor allowing the City, at its option, to immediately suspend or terminate work, or exercise any other remedy allowed under the Contract. Contractor agrees that the City has not waived or is not estopped to assert a material breach of the Contract because of any acts or omissions by the City regarding its review or non-review of insurance documents provided by Contractor, its agents, employees, or assigns.
- 11.3.3 Contractor shall provide updated certificates of insurance to the Director upon request. The Contractor shall be responsible for delivering a current certificate of insurance in the proper form to the Director as long as Contractor is required to furnish insurance coverage under Paragraph 11.2.
- 11.3.4 Every certificate of insurance Contractor delivers in connection with this Contract shall
 - 11.3.4.1 be less than 12 months old;
 11.3.4.2 include all pertinent identification information for the Insurer, including the company name and address, policy number, NAIC number or AMB number, and authorized signature;
 - 11.3.4.3 include in the Certificate
 Holder Box the Project name and
 reference numbers, contractor's email
 address, and indicates the name and
 address of the Project Manager;
 - 11.3.4.4 include the Contractor's email address in the Certificate Holder Box;
 - 11.3.4.5 include the Project reference numbers on the City address so the Project reference number is visible in the envelope window; and
 - 11.3.4.6 be appropriately marked to accurately identify all coverages and limits of the policy, effective and expiration dates, and waivers of subrogation in favor of the City for Commercial General Liability, Automobile Liability, and

Worker's Compensation/Employers' Liability.

11.4 PERFORMANCE AND PAYMENT BONDS

11.4.1 For Contracts over the value of \$25,000, Contractor shall provide Bonds on the City's standard forms covering faithful performance of the Contract and payment of obligations arising thereunder as required in the Contract pursuant to Chapter 2253 of the Government Code. The Bonds must be for 100 percent of Original Contract Price and in accordance with conditions stated on standard City Performance and Payment Bond and Statutory Payment Bond forms. Bonds may be obtained from Contractor's usual source and cost for the Bonds are included in Contract Price.

11.5 MAINTENANCE BONDS

11.5.1 One-year Maintenance Bond: Contractor shall provide Bond on standard City One-year Maintenance Bond form, providing for Contractor's correction, replacement, or restoration of any portion of the Work which is found to be not in compliance with requirements of the Contract during one-year correction period required in Paragraph 12.2. The Maintenance Bond must be for 100 percent of the Original Contract Price.

11.6 SURETY

- 11.6.1 A Bond that is given or tendered to the City pursuant to the Contract must be executed by a surety company that is authorized and admitted to write surety Bonds in the State of Texas.
- 11.6.2 If a Bond is given or tendered to the City pursuant to the Contract in an amount greater than 10 percent of Surety's capital and surplus, Surety shall provide certification that Surety has reinsured that portion of the risk that exceeds 10 percent of Surety's capital and surplus. The reinsurance must be with one or more reinsurers who are duly authorized, accredited, or trusted to do business in the State of Texas. The amount reinsured by reinsurer may not exceed 10 percent of reinsurer's capital and surplus. The amount of allowed capital and surplus must be based on information received from State Board of Insurance.
- 11.6.3 If the amount of a Bond is greater than \$100.000, Surety shall:
 - 11.6.3.1 also hold certificate of authority from the United States Secretary of Treasury to qualify as surety on

obligations permitted or required under federal law; or,

- 11.6.3.2 Surety may obtain reinsurance for any liability in excess of \$100,000 from reinsurer that is authorized and admitted as a reinsurer in the State of Texas and is the holder of a certificate of authority from the United States Secretary of the Treasury to qualify as surety or reinsurer on obligations permitted or required under federal law.
- 11.6.4 Determination of whether Surety on the Bond or the reinsurer holds a certificate of authority from the United States Secretary of the Treasury is based on information published in Federal Register covering the date on which Bond was executed.
- 11.6.5 Each Bond given or tendered to the City pursuant to the Contract must be on City forms with no changes made by Contractor or Surety, and must be dated, executed, and accompanied by power of attorney stating that the attorney in fact executing such the bond has requisite authority to execute such Bond. The Bonds must be dated and must be no more than 30 days old.
- 11.6.6 Surety shall designate in its Bond, power of attorney, or written notice to the City, an agent resident in Harris County to whom any requisite notices may be delivered and on whom service of process may be had in matters arising out of the suretyship.
- 11.6.7 Contractor shall furnish information to a payment bond beneficiary as required by Tex. Gov'T CODE ANN. CH. 2253.

11.7 DELIVERY OF BONDS

11.7.1 Contractor shall deliver required Bonds to the City within time limits stated in Notice of Intent to Award and prior to Date of Commencement of the Work.

ARTICLE 12 - UNCOVERING AND CORRECTION OF THE WORK

12.1 UNCOVERING OF THE WORK

12.1.1 If a portion of the Work has been covered which City Engineer has not specifically requested to observe prior to its being covered, City Engineer may request to see such work and it must be uncovered by Contractor. If such work is in accordance with the Contract, the costs of uncovering and covering such work are charged to the City by Change Order. If such work is not in accordance with the Contract, Contractor shall pay

for uncovering and shall correct the nonconforming Work promptly after receipt of Notice of Noncompliance to do so.

12.2 CORRECTION OF THE WORK

- 12.2.1 Contractor shall promptly correct or remove work rejected by City Engineer or work failing to conform to requirements of the Contract, whether observed before or after Date of Substantial Completion and whether fabricated, Installed, or completed.
- 12.2.2 Contractor bears costs of correcting the rejected or nonconforming work including additional testing and inspections, and compensation for Design Consultant's services and expenses made necessary thereby.
- 12.2.3 If within one year after Date of Substantial Completion, or after date for commencement of warranties established under Paragraph 9.9.5 or by other applicable special warranty required by the Contract, whichever is later in time, any of the Work is found not to be in accordance with the requirements of the Contract, Contractor shall correct such work promptly after receipt of Notice of Noncompliance to do so.
- 12.2.4 One-year correction period for portions of the Work completed after Date of Substantial Completion will begin on the date of acceptance of that portion of the Work. This obligation under this Paragraph survives acceptance of the Work under the Contract and termination of the Contract.
- 12.2.5 The one-year correction period does not establish a duration for the Contractor's general warranty under Paragraph 3.12. The City retains the right to recover damages from the Contractor as long as may be permitted by the applicable statute of limitations.
- If Contractor does not proceed with 12.2.6 correction of the nonconforming work within time fixed by Notice of Noncompliance, the City may nonconforming work or remove nonconforming work and store salvageable Products at Contractor's expense. Contractor shall pay the costs of correction of nonconforming work and removal and storage of salvageable Products to the City. If Contractor does not pay costs of the correction or removal and storage within 10 days after written notice, the City may sell the Products at auction or at private sale. The City will account for proceeds thereof after deducting costs and damages that would have been borne by Contractor, including compensation for services of Design Consultant and necessary expenses. If the proceeds of sale do not cover costs which Contractor should have borne.

Contractor shall pay the value of the deficiency to the City.

12.2.7 Contractor bears cost of correcting work originally installed by Contractor, the City, or by separate contractors and damaged by Contractor's correction or removal of Contractor's work.

12.3 ACCEPTANCE OF NONCONFORMING WORK

12.3.1 If City Engineer prefers to accept work which is not in accordance with requirements of the Contract, City Engineer may do so only by issuance of Change Order, instead of requiring its removal and correction. City Engineer will determine Contract Price reduction. The reduction will become effective even if final payment has been made.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

13.1 GOVERNING LAW AND VENUE

13.1.1 This Contract shall be construed and interpreted in accordance with the applicable laws of the State of Texas and City of Houston. Venue for any disputes relating in any way to this Contract shall lie exclusively in Harris County, Texas.

13.2 SUCCESSORS

13.2.1 The Contract binds and benefits the Parties and their legal successors and permitted assigns; however, this Paragraph 13.2.1 does not alter the restrictions on assignment and disposal of assets set out in Paragraph 13.3.1. The Contract does not create any personal liability on the part of any officer or agent of the City.

13.3 BUSINESS STRUCTURE AND ASSIGNMENTS

13.3.1 Contractor may not assign the Contract at law or otherwise, or dispose of all or substantially all of its assets without City Engineer's prior written consent. Nothing in this Section, however, prevents the assignment of accounts receivable or the creation of a security interest as described in §9.406 of the Texas Business & Commerce Code. In the case of such an assignment, Contractor shall immediately furnish the City with proof of the assignment and the name, telephone number, and address of the assignee and a clear identification of the fees to be paid to the assignee.

13.3.2 Any series, as defined by the TEX. BUS. ORG. CODE ANN., affiliate, subsidiary, or successor to

which Contractor assigns or transfers assets shall join in privity and be jointly and severally liable under this Contract.

13.4 WRITTEN NOTICE

- 13.4.1 All notices required or permitted by the Contract must be in writing and must be effected by hand delivery; registered or certified mail, return receipt requested; or facsimile with confirmation copy mailed to receiving Party. Notice is sufficient if made or addressed with proper postage to the address stated in the Agreement for each Party ("Notice Address") or faxed to the facsimile number stated in the Agreement for each Party. The notice is deemed delivered on the earlier of:
 - 13.4.1.1 the date the Notice is actually received:
 - 13.4.1.2 the third day following deposit in a United States Postal Service post office or receptacle; or
 - 13.4.1.3 the date the facsimile is sent unless the facsimile is sent after 5:00 p.m. local time of the recipient and then it is deemed received on the following day.

Any Party may change its Notice Address or facsimile number at any time by giving written notice of the change to the other Party in the manner provided for in this Paragraph at least 15 days prior to the date the change is affected.

13.5 RIGHTS AND REMEDIES

- 13.5.1 Duties and obligations imposed by the Contract and rights and remedies available thereunder are in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.
- 13.5.2 No act or failure to act by the City or Contractor is a waiver of rights or duties afforded them under the Contract, nor is the act or failure to act constitute approval of or acquiescence in a breach of the Contract. No waiver, approval or acquiescence is binding unless in writing and, in the case of the City, signed by City Engineer.

13.6 TESTS AND INSPECTIONS

- 13.6.1 Contractor shall give City Engineer, Construction Manager, and Design Consultant timely notice of the time and place where tests and inspections are to be made. Contractor shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- 13.6.2 The City will employ and pay for services of an independent testing laboratory to

perform inspections or acceptance tests required by the Contract except:

- 13.6.2.1 inspections or tests covered by Paragraph 13.6.3;
- 13.6.2.2 those otherwise specifically provided in the Contract; or
- 13.6.2.3 costs incurred in connection with tests or inspections conducted pursuant to Paragraph 12.2.2.
- 13.6.3 Contractor is responsible for and shall pay all costs in connection with inspection or testing required in connection with City Engineer's acceptance of a Product to be incorporated into the Work, or of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation into the Work.
- 13.6.4 Neither observations by the City, Construction Manager, or Design Consultant, nor inspections, tests, or approvals by others, relieves Contractor from Contractor's obligations to perform the Work in accordance with the Contract.

13.7 INTEREST

13.7.1 No interest will accrue on late payments by the City except as provided under Chapter 2251 of the Government Code.

13.8 PARTIES IN INTEREST

13.8.1 The Contract does not bestow any rights upon any third party, but binds and benefits the Parties only.

13.9 ENTIRE CONTRACT

13.9.1 The Contract merges the prior negotiations and understandings of the Parties and embodies the entire agreement of the Parties. No other agreements, assurances, conditions, covenants, express or implied, or other terms of any kind, exist between the Parties regarding the Contract.

13.10 WRITTEN AMENDMENT

13.10.1 Changes to the Contract that cannot be effected by Modifications, must be made by written amendment, which will not be effective until approved by City Council.

13.11 COMPLIANCE WITH LAWS

13.11.1 Contractor shall comply with the Americans with Disabilities Act of 1990 as amended (ADA) and Texas Architectural Barriers Act and all regulations relating to either statute.

13.11.2 Contractor shall comply with all applicable federal, state, and city laws, rules and regulations.

13.12 SEVERABILITY

13.12.1 If any part of the Contract is for any reason found to be unenforceable, all other parts remain enforceable to the extent permitted by law.

13.13 COMPLIANCE WITH CERTAIN STATE LAW REQUIREMENTS

- 13.13.1 Anti-Boycott of Israel. Contractor certifies that Contractor is not currently engaged in, and agrees for the duration of this Agreement not to engage in, the boycott of Israel as defined by Section 808.001 of the Texas Government Code.
- 13.13.2 Anti-Boycott of Energy Companies. Contractor certifies that Contractor is not currently engaged in, and agrees for the duration of this Agreement not to engage in, the boycott of energy companies as defined by Section 809.001 of the Texas Government Code.
- 13.13.3 Anti-Boycott of Firearm Entities or Firearm Trade Associations. Contractor certifies that Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association, or will not discriminate against a firearm entity or firearm trade association for the duration of this Agreement, as defined by Section 2274.001 of the Texas Government Code.
- 13.13.4 Certification of No Business with Foreign Terrorist Organizations. For purposes of Section 2252.152 of the Code, Contractor certifies that, at the time of this Agreement neither Contractor nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of Contractor, is a company listed by the Texas Comptroller of Public Accounts under Sections 2252.153 or 2270.0201 of the Code as a company known to have contracts with or provide supplies or to a foreign terrorist organization.

13.14 ZERO TOLERANCE POLICY FOR HUMAN TRAFFICKING & RELATED ACTIVITIES

13.14.1 The requirements and terms of the City of Houston's Zero Tolerance Policy for Human Trafficking and Related Activities, as set forth in Executive Order 1-56, as revised from time to time, are incorporated into this Agreement for all purposes. Contractor has reviewed Executive

Order 1-56, as revised, and shall comply with its terms and conditions as they are set out at the time of this Agreement's effective date. Contractor shall notify the City's Chief Procurement Officer, City Attorney, and the Director of any information regarding possible violation by the Contractor or its subcontractors providing services or goods under this Agreement.

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

14.1 TERMINATION BY THE CITY FOR CAUSE

- 14.1.1 Each of the following acts or omissions of Contractor or occurrences shall constitute an "Event of Default" under the Contract:
 - 14.1.1.1 Contractor refuses or fails to supply enough properly skilled workers or proper Products;
 - 14.1.1.2 Contractor disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction;
 - 14.1.1.3 Contractor is guilty of material breach of any duty or obligation of Contractor under the Contract, including, but not limited to, failure to submit certified payrolls electronically;
 - 14.1.1.4 Contractor has had any other contract with the City terminated for cause at any time subsequent to the effective date of the Contract as set out in the Agreement; or
 - 14.1.1.5 Contractor fails to utilize Ultra Low Sulfur Diesel Fuel, as required in Paragraph 3.9.1.1.
- If an Event of Default occurs, City Engineer may, at his option and without prejudice to any other rights or remedies which the City may have, deliver a written notice to Contractor and Surety describing the Event of Default and giving the Contractor 10 days to cure the Event of Default. If after the cure period, Contractor has failed or refused to cure the Event of Default, then City Engineer may deliver a second written notice to Contractor giving notice of the termination of the Contract or of the termination of Contractor's performance under the Contract ("Notice of Termination"). If City Engineer issues a Notice of Termination, then City Engineer may, subject to any prior rights of Surety and any other rights of the City under the Contract or at law:
 - 14.1.2.1 request that Surety complete the Work; or

- 14.1.2.2 take possession of the site and all materials, equipment, tools, and construction equipment and machinery on the site owned by Contractor; and
- 14.1.2.3 finish the Work by whatever reasonable method City Engineer may deem expedient.
- 14.1.3 After Contractor's receipt of a Notice of Termination, and except as otherwise directed in writing by City Engineer, Contractor shall:
 - 14.1.3.1 stop the Work on the date and to the extent specified in the Notice of Termination;
 - 14.1.3.2 place no further orders or subcontracts for Products or services:
 - 14.1.3.3 terminate all orders and subcontracts to the extent that they relate to performance of work terminated;
 - 14.1.3.4 assign to the City, in the manner, at the times, and to the extent directed by City Engineer, all rights, title, and interest of Contractor, under the terminated supply orders and subcontracts. The City may settle or pay claims arising out of termination of the orders and subcontracts:
 - 14.1.3.5 settle all outstanding liabilities and all claims arising out of the termination of supply orders and subcontracts with approval of City Engineer;
 - 14.1.3.6 take action as may be necessary, or as City Engineer may direct, for protection and preservation of property related to the Work that is in possession of Contractor, and in which the City has or may acquire an interest; and
 - 14.1.3.7 secure the Work in a safe state before leaving the site, providing any necessary safety measures, shoring, or other devices.
- 14.1.4 If the City terminates the Contract or terminates Contractor's performance under the Contract for any one or more of the reasons stated in Paragraph 14.1.1, Contractor may not receive any further payment until the Work is complete, subject to Paragraph 14.1.5.
- 14.1.5 If the unpaid balance of Contract Price exceeds the costs of finishing the Work, including liquidated damages and other amounts due under the Contract, the balance will be paid to Contractor. If the costs of finishing the Work exceed the unpaid balance, Contractor shall, within 10 days of receipt of written notice setting out the amount of the excess costs, pay the difference to the City. The amount to

be paid to Contractor or the City will be certified by City Engineer in writing, and this obligation for payment shall survive termination of the Contract or termination of Contractor's performance under the Contract. Termination of the Contractor for cause shall not relieve the Surety from its obligation to complete the project.

14.2 TERMINATION BY THE CITY FOR CONVENIENCE

- 14.2.1 City Engineer may, without cause and without prejudice to other rights or remedies of the City, give Contractor and Surety a Notice of Termination with a seven days written notice.
- 14.2.2 After receipt of the Notice of Termination, and except as otherwise approved by City Engineer, Contractor shall conform to requirements of Paragraph 14.1.3.
- 14.2.3 After receipt of the Notice of Termination, Contractor shall submit and substantiate to the City its termination Claim, in forms required by City Engineer. The Claim will be submitted and substantiated to the City promptly, but no later than six months from the effective date of termination, unless one or more extensions are granted by City Engineer in writing. If Contractor fails to submit its termination Claim within the time allowed, in accordance with Paragraph 14.2.4, City Engineer will determine, on the basis of available information, the amount, if any, due to Contractor because of termination, and City Engineer's determination is final and binding on the Parties. The City will then pay to Contractor the amount so determined.
- 14.2.4 City Engineer will determine, on the basis of information available to City Engineer, the amount due, if any, to Contractor for the termination as follows:
 - 14.2.4.1 Contract Price for all work performed in accordance with the Contract up to the date of termination determined in the manner prescribed for monthly payments in Article 9, except no retainage is withheld by the City either for payment determined by percentage of completion or for materials and equipment delivered to the site, in storage or in transit.
 - 14.2.4.2 Reasonable termination expenses, including costs for settling and paying Subcontractor and Supplier claims arising out of termination of the Work, reasonable cost of preservation and protection of the City's property after termination, if required, and the cost of Claim preparation. Termination expenses do not include field or central office

overhead, salaries of employees of Contractor, or litigation costs, including attorneys' fees.

No amount is allowed for anticipated profit or central office overhead on uncompleted work, or any cost or lost profit for other business of Contractor alleged to be damaged by the termination.

- 14.2.5 Contractor shall promptly remove from the site any construction equipment, tools, and temporary facilities, except the temporary facilities which City Engineer may wish to purchase and retain.
- 14.2.6 Contractor shall cooperate with City Engineer during the transition period.
- 14.2.7 The City will take possession of the Work and materials delivered to the site, in storage, or in transit, as of date or dates specified in the Notice of Termination, and is responsible for maintenance, utilities, security, and insurance, as stated in Notice of Termination.

14.3 SUSPENSION BY THE CITY FOR CONVENIENCE

- 14.3.1 City Engineer may, without cause, after giving Contractor and Surety 24-hour prior written notice, order Contractor to suspend, delay, or interrupt the Work in whole or in part for a period of time as City Engineer may determine.
- 14.3.2 An adjustment will be made in Contract Time equivalent to the time of suspension.
- 14.3.3 Adjustment will be made to Contract Price for increases in the cost of performance of the Work, including profit on increased cost of performance caused by suspension, delay, or interruption of the Work in accordance with Paragraph 7.3. No adjustment will be made to the extent that:
 - 14.3.3.1 performance was, or would have been, suspended, delayed, or interrupted by another cause for which Contractor is responsible; or
 - 14.3.3.2 adjustment is made or denied under another provision of the Contract.

14.4 TERMINATION BY CONTRACTOR

- 14.4.1 Contractor may terminate the Contract if the Work is stopped for a period of 30 days through no act or fault of Contractor, directly related to one of these events:
 - 14.4.1.1 issuance of an order of a court or other public authority having jurisdiction;

- 14.4.1.2 act of government, such as a declaration of national emergency which makes material unavailable; or
- 14.4.1.3 if repeated suspensions, delays, or interruptions by the City as described in Paragraph 14.3 constitute, in the aggregate, more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less;

No termination will be effective for the above reasons if Contractor delivers written notice to City Engineer describing the reason for termination, giving the proposed termination date, and granting the City a reasonable opportunity to respond and cure any City default before termination is effective.

14.4.2 If the Contract is terminated pursuant to this Paragraph 14.4, Contractor shall comply with the requirements of Paragraphs 14.2.2 through 14.2.7.

[END OF DOCUMENT]

Section 10

Definition of Terms

When the following terms are used in these specifications, in the contract, or in any documents or other instruments pertaining to construction where these specifications govern, the intent and meaning shall be defined as follows:

| Paragraph Number | Term | Definition | | |
|---------------------|-----------------------------------|---|--|--|
| 10-01 | AASHTO | The American Association of State Highway and Transportation Officials. | | |
| 10-02 | Access Road | The right-of-way, the roadway and all improvements constructed thereon connecting the airport to a public roadway. | | |
| 10-03 | Advertisement | A public announcement, as required by local law, inviting bids for work to be performed and materials to be furnished. | | |
| 10-04 | Airport | Airport means an area of land or water which is used or intended to be used for the landing and takeoff of aircraft; an appurtenant area used or intended to be used for airport buildings or other airport facilities or rights of way; airport buildings and facilities located in any of these areas, and a heliport. | | |
| 10-05 | Airport Improvement Program (AIP) | A grant-in-aid program, administered by the Federal Aviation Administration (FAA). | | |
| 10-06 | Air Operations Area (AOA) | The term air operations area (AOA) shall mean any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operation area shall include such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runway, taxiway, or apron. | | |
| 10-07 | Apron | Area where aircraft are parked, unloaded or loaded, fueled and/or serviced. | | |
| 10-08 | ASTM International (ASTM) | Formerly known as the American Society for Testing and Materials (ASTM). | | |
| 10-09 | Award | The Owner's notice to the successful bidder of the acceptance of the submitted bid. | | |
| 10-10 | Bidder | Any individual, partnership, firm, or corporation, acting directly or through a duly authorized representative, who submits a proposal for the work contemplated. | | |
| 10-11 | Building Area | An area on the airport to be used, considered, or intended to be used for airport buildings or other airport facilities or rights-of-way together with all airport buildings and facilities located thereon. | | |
| 10-12 | Calendar Day | Every day shown on the calendar. | | |
| 10-13 | Certificate of Analysis (COA) | The COA is the manufacturer's Certificate of Compliance (COC) including all applicable test results required by the specifications. | | |

| Paragraph Number | Term | Definition |
|---------------------|--|---|
| 10-14 | Certificate of Compliance (COC) | The manufacturer's certification stating that materials or assemblies furnished fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer's authorized representative. |
| 10-15 | Change Order | A written order to the Contractor covering changes in the plans, specifications, or proposal quantities and establishing the basis of payment and contract time adjustment, if any, for work within the scope of the contract and necessary to complete the project. |
| 10-16 | Contract | A written agreement between the Owner and the Contractor that establishes the obligations of the parties including but not limited to performance of work, furnishing of labor, equipment and materials and the basis of payment. The awarded contract includes but may not be limited to: Advertisement, Contract form, Proposal, Performance bond, payment bond, General provisions, certifications and representations, Technical Specifications, Plans, Supplemental Provisions, standards incorporated by reference and issued addenda. |
| 10-17 | Contract Item (Pay Item) | A specific unit of work for which a price is provided in the contract. |
| 10-18 | Contract Time | The number of calendar days or working days, stated in the proposal, allowed for completion of the contract, including authorized time extensions. If a calendar date of completion is stated in the proposal, in lieu of a number of calendar or working days, the contract shall be completed by that date. |
| 10-19 | Contractor | The individual, partnership, firm, or corporation primarily liable for the acceptable performance of the work contracted and for the payment of all legal debts pertaining to the work who acts directly or through lawful agents or employees to complete the contract work. |
| 10-20 | Contractors Quality Control (QC) Facilities | The Contractor's QC facilities in accordance with the Contractor Quality Control Program (CQCP). |
| 10-21 | Contractor Quality Control Program (CQCP) | Details the methods and procedures that will be taken to assure that all materials and completed construction required by the contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. |
| 10-22 | Control Strip | A demonstration by the Contractor that the materials, equipment, and construction processes results in a product meeting the requirements of the specification. |
| 10-23 | Construction Safety and Phasing Plan (CSPP) | The overall plan for safety and phasing of a construction project developed by the airport operator, or developed by the airport operator's consultant and approved by the airport operator. It is included in the invitation for bids and becomes part of the project specifications. |
| | | |

| Paragraph Number | Term | Definition | | |
|---------------------|------------------------|--|--|--|
| 10-24 | Drainage System | The system of pipes, ditches, and structures by which surface or subsurface waters are collected and conducted from the airport area. | | |
| 10-25 | Engineer | The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for engineering, inspection, and/or observation of the contract work and acting directly or through an authorized representative. | | |
| 10-26 | Equipment | All machinery, together with the necessary supplies for upkeep and maintenance; and all tools and apparatus necessary for the proper construction and acceptable completion of the work. | | |
| 10-27 | Extra Work | An item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, but which is found by the Owner's Engineer or Resident Project Representative (RPR) to be necessary to complete the work within the intended scope of the contract as previously modified. | | |
| 10-28 | FAA | The Federal Aviation Administration. When used to designate a person, FAA shall mean the Administrator or their duly authorized representative. | | |
| 10-29 | Federal Specifications | The federal specifications and standards, commercial item descriptions, and supplements, amendments, and indices prepared and issued by the General Services Administration. | | |
| 10-30 | Force Account | a. Contract Force Account - A method of payment that addresses extra work performed by the Contractor on a time and material basis. b. Owner Force Account - Work performed for the project | | |
| | | by the Owner's employees. | | |
| 10-31 | Intention of Terms | Whenever, in these specifications or on the plans, the words "directed," "required," "permitted," "ordered," "designated," "prescribed," or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation, or prescription of the Engineer and/or Resident Project Representative (RPR) is intended; and similarly, the words "approved," "acceptable," "satisfactory," or words of like import, shall mean approved by, or acceptable to, or satisfactory to the Engineer and/or RPR, subject in each case to the final determination of the Owner. Any reference to a specific requirement of a numbered paragraph of the contract specifications or a cited standard shall be interpreted to include all general requirements of the entire section, specification item, or cited standard that may be pertinent to such specific reference. | | |
| | | | | |

| Paragraph Number | Term | Definition | | |
|---------------------|------------------------------------|--|--|--|
| 10-32 | Lighting | A system of fixtures providing or controlling the light sources used on or near the airport or within the airport buildings. The field lighting includes all luminous signals, markers, floodlights, and illuminating devices used on or near the airport or to aid in the operation of aircraft landing at, taking off from, or taxiing on the airport surface. | | |
| 10-33 | Major and Minor Contract Items | A major contract item shall be any item that is listed in the proposal, the total cost of which is equal to or greater than 20% of the total amount of the award contract. All other items shall be considered minor contract items. | | |
| 10-34 | Materials | Any substance specified for use in the construction of the contract work. | | |
| 10-35 | Modification of Standards (MOS) | Any deviation from standard specifications applicable to material and construction methods in accordance with FAA Order 5300.1. | | |
| 10-36 | Notice to Proceed (NTP) | A written notice to the Contractor to begin the actual contract work on a previously agreed to date. If applicable, the Notice to Proceed shall state the date on which the contract time begins. | | |
| 10-37 | Owner | The term "Owner" shall mean the party of the first part or the contracting agency signatory to the contract. Where the term "Owner" is capitalized in this document, it shall mean airport Sponsor only. The Owner for this project is []. ******************************** | | |
| 10-38 | Passenger Facility Charge (PFC) | Per 14 Code of Federal Regulations (CFR) Part 158 and 49 United States Code (USC) § 40117, a PFC is a charge imposed by a public agency on passengers enplaned at a commercial service airport it controls. | | |
| 10-39 | Pavement Structure | The combined surface course, base course(s), and subbase course(s), if any, considered as a single unit. | | |
| 10-40 | Payment bond | The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will pay in full all bills and accounts for materials and labor used in the construction of the work. | | |
| 10-41 | Performance bond | The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will complete the work in accordance with the terms of the contract. | | |
| 10-42 | Plans | The official drawings or exact reproductions which show the location, character, dimensions and details of the airport and the work to be done and which are to be considered as a part of the contract, supplementary to the specifications. Plans may also be referred to as 'contract drawings.' | | |

| Paragraph Number | Term | Definition | | |
|---------------------|--|---|--|--|
| 10-43 | Project | The agreed scope of work for accomplishing specific airport development with respect to a particular airport. | | |
| 10-44 | Proposal | The written offer of the bidder (when submitted on the approved proposal form) to perform the contemplated work and furnish the necessary materials in accordance with the provisions of the plans and specifications. | | |
| 10-45 | Proposal guaranty | The security furnished with a proposal to guarantee that the bidder will enter into a contract if their own proposal is accepted by the Owner. | | |
| 10-46 | Quality Assurance (QA) | Owner's responsibility to assure that construction work completed complies with specifications for payment. | | |
| 10-47 | Quality Control (QC) | Contractor's responsibility to control material(s) and construction processes to complete construction in accordance with project specifications. | | |
| 10-48 | Quality Assurance (QA) Inspector | An authorized representative of the Engineer and/or Resident Project Representative (RPR) assigned to make all necessary inspections, observations, tests, and/or observation of tests of the work performed or being performed, or of the materials furnished or being furnished by the Contractor. | | |
| 10-49 | Quality Assurance (QA) Laboratory | The official quality assurance testing laboratories of the Owner or such other laboratories as may be designated by the Engineer or RPR. May also be referred to as Engineer's, Owner's, or QA Laboratory. | | |
| 10-50 | Resident Project Representative (RPR) | The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for all necessary inspections, observations, tests, and/or observations of tests of the contract work performed or being performed, or of the materials furnished or being furnished by the Contractor, and acting directly or through an authorized representative. | | |
| 10-51 | Runway | The area on the airport prepared for the landing and takeoff of aircraft. | | |
| 10-52 | Runway Safety Area (RSA) | A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to aircraft. See the construction safety and phasing plan (CSPP) for limits of the RSA. | | |
| 10-53 | Safety Plan Compliance Document (SPCD) | Details how the Contractor will comply with the CSPP. | | |
| 10-54 | Specifications | A part of the contract containing the written directions and requirements for completing the contract work. Standards for specifying materials or testing which are cited in the contract specifications by reference shall have the same force and effect as if included in the contract physically. | | |
| 10-55 | Sponsor | A Sponsor is defined in 49 USC § 47102(24) as a public agency that submits to the FAA for an AIP grant; or a private Owner of a public-use airport that submits to the FAA an application for an AIP grant for the airport. | | |

| Paragraph Number | Term | Definition |
|---------------------|---------------------------------------|--|
| 10-56 | Structures | Airport facilities such as bridges; culverts; catch basins, inlets, retaining walls, cribbing; storm and sanitary sewer lines; water lines; underdrains; electrical ducts, manholes, handholes, lighting fixtures and bases; transformers; navigational aids; buildings; vaults; and, other manmade features of the airport that may be encountered in the work and not otherwise classified herein. |
| 10-57 | Subgrade | The soil that forms the pavement foundation. |
| 10-58 | Superintendent | The Contractor's executive representative who is present on the work during progress, authorized to receive and fulfill instructions from the RPR, and who shall supervise and direct the construction. |
| 10-59 | Supplemental Agreement | A written agreement between the Contractor and the Owner that establishes the basis of payment and contract time adjustment, if any, for the work affected by the supplemental agreement. A supplemental agreement is required if: (1) in scope work would increase or decrease the total amount of the awarded contract by more than 25%: (2) in scope work would increase or decrease the total of any major contract item by more than 25%; (3) work that is not within the scope of the originally awarded contract; or (4) adding or deleting of a major contract item. |
| 10-60 | Surety | The corporation, partnership, or individual, other than the Contractor, executing payment or performance bonds that are furnished to the Owner by the Contractor. |
| 10-61 | Taxilane | A taxiway designed for low speed movement of aircraft between aircraft parking areas and terminal areas. |
| 10-62 | Taxiway | The portion of the air operations area of an airport that has been designated by competent airport authority for movement of aircraft to and from the airport's runways, aircraft parking areas, and terminal areas. |
| 10-63 | Taxiway/Taxilane Safety Area (TSA) | A defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an aircraft. See the construction safety and phasing plan (CSPP) for limits of the TSA. |
| 10-64 | Work | The furnishing of all labor, materials, tools, equipment, and incidentals necessary or convenient to the Contractor's performance of all duties and obligations imposed by the contract, plans, and specifications. |
| 10-65 | Working day | A working day shall be any day other than a legal holiday, Saturday, or Sunday on which the normal working forces of the Contractor may proceed with regular work for at least six (6) hours toward completion of the contract. When work is suspended for causes beyond the Contractor's control, it will not be counted as a working day. Saturdays, Sundays and holidays on which the Contractor's forces engage in regular work will be considered as working days. |

| Paragraph Number | Term | Definition |
|---------------------|---------------------|--|
| 10-66 | Owner Defined terms | [None] |
| | | The Engineer may add and define additional terms, if necessary. |
| | | On projects that utilize a Construction Manager (CM), a Construction Manager at Risk (CMAR), or a Construction Manager/General Contractor (CMGC), add a definition of their roles on the project. The CM generally acts as an agent of the owner and is not legally or financially responsible for completion of the work; a CMAR and CMGC are legally and financially obligated to complete the work. |

Section 20

Proposal Requirements and Conditions

The information provided in this section is often duplicated within the Instruction-to-bidders and Invitation-for-Bidders. For the purpose of limiting redundant requirements and potential discrepancies, modifications may be made to this section to include a reference that these requirements may be found in the procurement section of the project bid documents. The language provided in this section represents model language acceptable to the FAA. The Owner may make edits to the model language that reflect established written local and state procurement versions provided such requirements do not materially alter the intent and purpose of the FAA's model language; and such alterations do not conflict with the requirements of 2 CFR part 200 or 49 USC chapter 471.

20-01 Advertisement (Notice to Bidders). [___]

Insert the project advertisement documents here or indicate the location where the documents can be found.

The published advertisement shall state the time and place for submitting sealed proposals; provide a description of the proposed work; provide instructions to bidders about obtaining proposal forms, plans, and specifications; indicate the proposal guaranty required; and the Owner's right to reject any and all bids.

20-02 Qualification of bidders. Each bidder shall submit evidence of competency and evidence of financial responsibility to perform the work to the Owner at the time of bid opening. Evidence of competency, unless otherwise specified, shall consist of statements covering the bidder's past experience on similar work, and a list of equipment and a list of key personnel that

would be available for the work.

meeting. 1 1

Each bidder shall furnish the Owner satisfactory evidence of their financial responsibility. Evidence of financial responsibility, unless otherwise specified, shall consist of a confidential statement or report of the bidder's financial resources and liabilities as of the last calendar year or the bidder's last fiscal year. Such statements or reports shall be certified by a public accountant. At the time of submitting such financial statements or reports, the bidder shall further certify whether their financial responsibility is approximately the same as stated or reported by the public accountant. If the bidder's financial responsibility has changed, the bidder shall qualify the public accountant's statement or report to reflect the bidder's true financial condition at the time such qualified statement or report is submitted to the Owner.

Unless otherwise specified, a bidder may submit evidence that they are prequalified with the State Highway Division and are on the current "bidder's list" of the state in which the proposed work is located. Evidence of State Highway Division prequalification may be submitted as evidence of financial responsibility in lieu of the certified statements or reports specified above.

This paragraph should be edited as necessary to state what will be acceptable as evidence of financial responsibility to the Owner.

20-03 Contents of proposal forms. The Owner's proposal forms state the location and description of the proposed construction; the place, date, and time of opening of the proposals; and the estimated quantities of the various items of work to be performed and materials to be furnished for which unit bid prices are asked. The proposal form states the time in which the work must be completed, and the amount of the proposal guaranty that must accompany the proposal. The Owner will accept only those Proposals properly executed on physical forms or electronic forms provided by the Owner. Bidder actions that may cause the Owner to deem a proposal irregular are given in paragraph 20-09 *Irregular proposals*.

I Mobilization is limited to I 10 I percent of the total project cost.

| | | | . , | - | |
|---|-----------------------------|----------------------------------|------------------------------------|---|---|
| ******** | ****** | ****** | ***** | ***** | |
| Delete if Item C-105 Mobi | lization is | not included i | n the project. | | |
| ******** | ****** | ******* | ***** | ***** | |
| [A prebid conference is r material requirements; sub construction safety and pha airfield paving construction | mittals; Qu asing plan i | ality Control/Quincluding airpor | uality Assuranc t access and st | e requirements; the aging areas; and ເ | e |

Should the Owner require a prebid conference, state the time, date, and place in the proposal. Conduct a prebid conference for all projects with pavement construction costs that exceed \$500,000. As a minimum, include the following

items for discussion: material requirements; submittals; Quality Control/Quality Assurance requirements; the construction safety and phasing plan including airport access and staging areas; unique airfield paving construction requirements.

20-04 Issuance of proposal forms. The Owner reserves the right to refuse to issue a proposal form to a prospective bidder if the bidder is in default for any of the following reasons:

- **a.** Failure to comply with any prequalification regulations of the Owner, if such regulations are cited, or otherwise included, in the proposal as a requirement for bidding.
- **b.** Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contracts in force with the Owner at the time the Owner issues the proposal to a prospective bidder.
 - c. Documented record of Contractor default under previous contracts with the Owner.
 - d. Documented record of unsatisfactory work on previous contracts with the Owner.
- **20-05** Interpretation of estimated proposal quantities. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly, or by implication, agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in the Section 40, paragraph 40-02, Alteration of Work and Quantities, without in any way invalidating the unit bid prices.
- **20-06 Examination of plans, specifications, and site**. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. Bidders shall satisfy themselves to the character, quality, and quantities of work to be performed, materials to be furnished, and to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied to the conditions to be encountered in performing the work and the requirements of the proposed contract, plans, and specifications.
- [Boring logs and other records of subsurface investigations and tests are available for inspection of bidders. It is understood and agreed that such subsurface information, whether included in the plans, specifications, or otherwise made available to the bidder, was obtained and is intended for the Owner's design and estimating purposes only. Such information has been made available for the convenience of all bidders. It is further understood and agreed that each bidder is solely responsible for all assumptions, deductions, or conclusions which the bidder may make or obtain from their own examination of the boring logs and other records of subsurface investigations and tests that are furnished by the Owner.]
- **20-07 Preparation of proposal**. The bidder shall submit their proposal on the forms furnished by the Owner. All blank spaces in the proposal forms, unless explicitly stated otherwise, must be correctly filled in where indicated for each and every item for which a quantity is given. The

bidder shall state the price (written in ink or typed) both in words and numerals which they propose for each pay item furnished in the proposal. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

Prices should generally be written in whole dollars and cents. The extended total amount of each item should not be rounded.

The bidder shall correctly sign the proposal in ink. If the proposal is made by an individual, their name and post office address must be shown. If made by a partnership, the name and post office address of each member of the partnership must be shown. If made by a corporation, the person signing the proposal shall give the name of the state where the corporation was chartered and the name, titles, and business address of the president, secretary, and the treasurer. Anyone signing a proposal as an agent shall file evidence of their authority to do so and that the signature is binding upon the firm or corporation.

20-08 Responsive and responsible bidder. A responsive bid conforms to all significant terms and conditions contained in the Owner's invitation for bid. It is the Owner's responsibility to decide if the exceptions taken by a bidder to the solicitation are material or not and the extent of deviation it is willing to accept.

A responsible bidder has the ability to perform successfully under the terms and conditions of a proposed procurement, as defined in 2 CFR § 200.318(h). This includes such matters as Contractor integrity, compliance with public policy, record of past performance, and financial and technical resources.

20-09 Irregular proposals. Proposals shall be considered irregular for the following reasons:

- **a.** If the proposal is on a form other than that furnished by the Owner, or if the Owner's form is altered, or if any part of the proposal form is detached.
- **b.** If there are unauthorized additions, conditional or alternate pay items, or irregularities of any kind that make the proposal incomplete, indefinite, or otherwise ambiguous.
- **c.** If the proposal does not contain a unit price for each pay item listed in the proposal, except in the case of authorized alternate pay items, for which the bidder is not required to furnish a unit price.
 - **d.** If the proposal contains unit prices that are obviously unbalanced.
 - e. If the proposal is not accompanied by the proposal guaranty specified by the Owner.
 - f. If the applicable Disadvantaged Business Enterprise information is incomplete.

The Owner reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to local laws and ordinances pertaining to the letting of construction contracts.

20-10 Bid guarantee. Each separate proposal shall be accompanied by a bid bond, certified check, or other specified acceptable collateral, in the amount specified in the proposal form. Such bond, check, or collateral, shall be made payable to the Owner.

2 CFR 200.325 provides that for contracts exceeding the Simplified Acquisition Threshold, the Owner should use local bonding policy and requirements provided that the FAA has made a determination that the Government's interest is adequately protected. If such a determination has not been made, the bid guarantee shall be equivalent to 5% of the bid price. It shall consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

20-11 Delivery of proposal. [Each proposal submitted shall be placed in a sealed envelope plainly marked with the project number, location of airport, and name and business address of the bidder on the outside. When sent by mail, preferably registered, the sealed proposal, marked as indicated above, should be enclosed in an additional envelope. No proposal will be considered unless received at the place specified in the advertisement or as modified by Addendum before the time specified for opening all bids. Proposals received after the bid opening time shall be returned to the bidder unopened.]

Bid delivery requirements, including electronic delivery, to comply with local/state regulations may be substituted for this language.

20-12 Withdrawal or revision of proposals. A bidder may withdraw or revise (by withdrawal of one proposal and submission of another) a proposal provided that the bidder's request for withdrawal is received by the Owner [in writing] [by fax][by email] before the time specified for opening bids. Revised proposals must be received at the place specified in the advertisement before the time specified for opening all bids.

Edit to reflect local procurement requirements for withdrawal of proposals.

- **20-13 Public opening of proposals**. Proposals shall be opened, and read, publicly at the time and place specified in the advertisement. Bidders, their authorized agents, and other interested persons are invited to attend. Proposals that have been withdrawn (by written or telegraphic request) or received after the time specified for opening bids shall be returned to the bidder unopened.
- **20-14 Disqualification of bidders**. A bidder shall be considered disqualified for any of the following reasons:
- **a.** Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.

- **b.** Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner until any such participating bidder has been reinstated by the Owner as a qualified bidder.
- **c.** If the bidder is considered to be in "default" for any reason specified in paragraph 20-04, *Issuance of Proposal Forms*, of this section.
- **20-15 Discrepancies and Omissions.** A Bidder who discovers discrepancies or omissions with the project bid documents shall immediately notify the Owner's Engineer of the matter. A bidder that has doubt as to the true meaning of a project requirement may submit to the Owner's Engineer a written request for interpretation no later than **____**] days prior to bid opening.

Any interpretation of the project bid documents by the Owner's Engineer will be by written addendum issued by the Owner. The Owner will not consider any instructions, clarifications or interpretations of the bidding documents in any manner other than written addendum.

END OF SECTION 20

Award and Execution of Contract

The information provided in this section is often duplicated within the Instruction-to-bidders and Invitation-for-Bidders. For the purpose of limiting redundant requirements and potential discrepancies, modifications may be made to this section to include a reference that these requirements may be found in the procurement section of the project manual. The language provide in this section represents model language acceptable to the FAA. The Owner may make edits to the model language that reflect established written local and state procurement versions provided such requirements do not materially alter the intent of the FAA's model language; and such alterations do not conflict with the requirements of 2 CFR part 200 or 49 USC chapter 471.

30-01 Consideration of proposals. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. If a bidder's proposal contains a discrepancy between unit bid prices written in words and unit bid prices written in numbers, the unit bid price written in words shall govern.

Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

- **a.** If the proposal is irregular as specified in Section 20, paragraph 20-09, *Irregular Proposals*.
- **b.** If the bidder is disqualified for any of the reasons specified Section 20, paragraph 20-14, *Disqualification of Bidders*.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals, waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable state and local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise. All such actions shall promote the Owner's best interests.

30-02 Award of contract. The award of a contract, if it is to be awarded, shall be made within **[545]** calendar days of the date specified for publicly opening proposals, unless otherwise specified herein.

The award of contract is recommended to be made within 30 days, but shall not exceed the maximum time allowed by the contracting authority.

If the Owner elects to proceed with an award of contract, the Owner will make award to the responsible bidder whose bid, conforming with all the material terms and conditions of the bid documents, is the lowest in price.

If the Owner includes bid alternates (additive or deductive), the bid documents must clearly state the order of evaluation the Owner will apply during evaluation of bids. Practices that establish the basis of award on the base bid plus any arbitrary combination of bid alternates may jeopardize federal participation.

For AIP contracts, unless otherwise specified in this subsection, no award shall be made until the FAA has reviewed the Owner's recommendation to make such award in accordance with 2 CFR 200.324.

30-03 Cancellation of award. The Owner reserves the right to cancel the award without liability to the bidder, except return of proposal guaranty, at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with paragraph 30-07 *Approval of Contract*.

30-04 Return of proposal guaranty. All proposal guaranties, except those of the two lowest bidders, will be returned immediately after the Owner has made a comparison of bids as specified in the paragraph 30-01, *Consideration of Proposals*. Proposal guaranties of the two lowest bidders will be retained by the Owner until such time as an award is made, at which time, the unsuccessful bidder's proposal guaranty will be returned. The successful bidder's proposal guaranty will be returned as soon as the Owner receives the contract bonds as specified in paragraph 30-05, *Requirements of Contract Bonds*.

30-05 Requirements of contract bonds. At the time of the execution of the contract, the successful bidder shall furnish the Owner a surety bond or bonds that have been fully executed by the bidder and the surety guaranteeing the performance of the work and the payment of all legal debts that may be incurred by reason of the Contractor's performance of the work. The surety and the form of the bond or bonds shall be acceptable to the Owner. Unless otherwise specified in this subsection, the surety bond or bonds shall be in a sum equal to the full amount of the contract.

2 CFR 200.325 provides that for contracts exceeding the Simplified Acquisition Threshold, the Owner should use local bonding policy and requirements provided that the FAA has made a determination that the federal interest is adequately protected.

If such a determination has not been made, the Owner shall require separate performance and payment bonds in the full amount of the awarded contract. For AIP contracts awarded in an amount of \$150,000 or less, the Owner should specify bonding in accordance with local requirements.

30-06 Execution of contract. The successful bidder shall sign (execute) the necessary agreements for entering into the contract and return the signed contract to the Owner, along with the fully executed surety bond or bonds specified in paragraph 30-05, *Requirements of Contract Bonds*, of this section, within [15] calendar days from the date mailed or otherwise delivered to the successful bidder.

30-07 Approval of contract. Upon receipt of the contract and contract bond or bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance with local laws or ordinances, and return the fully executed contract to the Contractor. Delivery of the fully executed contract to the Contractor shall constitute the Owner's approval to be bound by the successful bidder's proposal and the terms of the contract. **30-08 Failure to execute contract**. Failure of the successful bidder to execute the contract and furnish an acceptable surety bond or bonds within the period specified in paragraph 30-06, *Execution of Contract*, of this section shall be just cause for cancellation of the award and forfeiture of the proposal guaranty, not as a penalty, but as liquidated damages to the Owner.

END OF SECTION 30

Scope of Work

40-01 Intent of contract. The intent of the contract is to provide for construction and completion, in every detail, of the work described. It is further intended that the Contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the plans, specifications, and terms of the contract.

40-02 Alteration of work and quantities. The Owner reserves the right to make such changes in quantities and work as may be necessary or desirable to complete, in a satisfactory manner, the original intended work. Unless otherwise specified in the Contract, the Owner's Engineer or RPR shall be and is hereby authorized to make, in writing, such in-scope alterations in the work and variation of quantities as may be necessary to complete the work, provided such action does not represent a significant change in the character of the work.

For purpose of this section, a significant change in character of work means: any change that is outside the current contract scope of work; any change (increase or decrease) in the total contract cost by more than 25%; or any change in the total cost of a major contract item by more than 25%.

Work alterations and quantity variances that do not meet the definition of significant change in character of work shall not invalidate the contract nor release the surety. Contractor agrees to accept payment for such work alterations and quantity variances in accordance with Section 90, paragraph 90-03, *Compensation for Altered Quantities*.

Should the value of altered work or quantity variance meet the criteria for significant change in character of work, such altered work and quantity variance shall be covered by a supplemental agreement. Supplemental agreements shall also require consent of the Contractor's surety and separate performance and payment bonds. If the Owner and the Contractor are unable to agree on a unit adjustment for any contract item that requires a supplemental agreement, the Owner reserves the right to terminate the contract with respect to the item and make other arrangements for its completion.

Applicable federal contract provisions for procurement and contracting under AIP are found on the following website:

www.faa.gov/airports/aip/procurement/federal_contract_provisions/

40-03 Omitted items. The Owner, the Owner's Engineer or the RPR may provide written notice to the Contractor to omit from the work any contract item that does not meet the definition of major contract item. Major contract items may be omitted by a supplemental agreement. Such omission of contract items shall not invalidate any other contract provision or requirement. Should a contract item be omitted or otherwise ordered to be non-performed, the Contractor shall be paid for all work performed toward completion of such item prior to the date of the order to omit such item. Payment for work performed shall be in accordance with Section 90, paragraph 90-04, *Payment for Omitted Items*.

40-04 Extra work. Should acceptable completion of the contract require the Contractor to

perform an item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, Owner may issue a Change Order to cover the necessary extra work. Change orders for extra work shall contain agreed unit prices for performing the change order work in accordance with the requirements specified in the order, and shall contain any adjustment to the contract time that, in the RPR's opinion, is necessary for completion of the extra work.

When determined by the RPR to be in the Owner's best interest, the RPR may order the Contractor to proceed with extra work as provided in Section 90, paragraph 90-05, *Payment for Extra Work*. Extra work that is necessary for acceptable completion of the project, but is not within the general scope of the work covered by the original contract shall be covered by a supplemental agreement as defined in Section 10, paragraph 10-59, *Supplemental Agreement*.

If extra work is essential to maintaining the project critical path, RPR may order the Contractor to commence the extra work under a Time and Material contract method. Once sufficient detail is available to establish the level of effort necessary for the extra work, the Owner shall initiate a change order or supplemental agreement to cover the extra work.

Any claim for payment of extra work that is not covered by written agreement (change order or supplemental agreement) shall be rejected by the Owner.

All change orders, supplemental agreements, and contract modifications must eventually be reviewed by the FAA. Unless specifically requested by the FAA, the Owner does not have to obtain prior FAA approval for contract changes except for the Buy American review, if required. However, if an Owner proceeds with contract changes without FAA approval, it is at the Owner's risk.

40-05 Maintenance of traffic. It is the explicit intention of the contract that the safety of aircraft, as well as the Contractor's equipment and personnel, is the most important consideration. The Contractor shall maintain traffic in the manner detailed in the Construction Safety and Phasing Plan (CSPP).

- **a.** It is understood and agreed that the Contractor shall provide for the free and unobstructed movement of aircraft in the air operations areas (AOAs) of the airport with respect to their own operations and the operations of all subcontractors as specified in Section 80, paragraph 80-04, *Limitation of Operations*. It is further understood and agreed that the Contractor shall provide for the uninterrupted operation of visual and electronic signals (including power supplies thereto) used in the guidance of aircraft while operating to, from, and upon the airport as specified in Section 70, paragraph 70-15, *Contractor's Responsibility for Utility Service and Facilities of Others*.
- **b.** With respect to their own operations and the operations of all subcontractors, the Contractor shall provide marking, lighting, and other acceptable means of identifying personnel, equipment, vehicles, storage areas, and any work area or condition that may be hazardous to the operation of aircraft, fire-rescue equipment, or maintenance vehicles at the airport in accordance with the construction safety and phasing plan (CSPP) and the safety plan compliance document (SPCD).

Refer to AC 150/5210-5, Painting, Marking and Lighting of Vehicles Used on an Airport and AC 150/5370-2, Operational Safety on Airports During Construction for applicable standards.

c. When the contract requires the maintenance of an existing road, street, or highway during the Contractor's performance of work that is otherwise provided for in the contract, plans, and specifications, the Contractor shall keep the road, street, or highway open to all traffic and shall provide maintenance as may be required to accommodate traffic. The Contractor, at their expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel. The Contractor shall furnish, erect, and maintain barricades, warning signs, flag person, and other traffic control devices in reasonable conformity with the Manual on Uniform Traffic Control Devices (MUTCD) (http://mutcd.fhwa.dot.gov/), unless otherwise specified. The Contractor shall also construct and maintain in a safe condition any temporary connections necessary for ingress to and egress from abutting property or intersecting roads, streets or highways. [Unless otherwise specified herein, the Contractor will not be required to furnish snow removal for such existing road, street, or highway.]

40-06 Removal of existing structures. All existing structures encountered within the established lines, grades, or grading sections shall be removed by the Contractor, unless such existing structures are otherwise specified to be relocated, adjusted up or down, salvaged, abandoned in place, reused in the work or to remain in place. The cost of removing such existing structures shall not be measured or paid for directly, but shall be included in the various contract items.

Should the Contractor encounter an existing structure (above or below ground) in the work for which the disposition is not indicated on the plans, the Resident Project Representative (RPR) shall be notified prior to disturbing such structure. The disposition of existing structures so encountered shall be immediately determined by the RPR in accordance with the provisions of the contract.

Except as provided in Section 40, paragraph 40-07, *Rights in and Use of Materials Found in the Work*, it is intended that all existing materials or structures that may be encountered (within the lines, grades, or grading sections established for completion of the work) shall be used in the work as otherwise provided for in the contract and shall remain the property of the Owner when so used in the work.

The removal of large or complicated existing structures such as box-culverts, underground storage tanks, large underground electrical vaults, large reinforced concrete structures or foundations, or similar existing airport facilities should be provided for in separate technical specifications. Contract pay items should also be provided in the contract proposal to cover payment for such work.

40-07 Rights in and use of materials found in the work. Should the Contractor encounter any material such as (but not restricted to) sand, stone, gravel, slag, or concrete slabs within the established lines, grades, or grading sections, the use of which is intended by the terms of the contract to be embankment, the Contractor may at their own option either:

- **a.** Use such material in another contract item, providing such use is approved by the RPR and is in conformance with the contract specifications applicable to such use; or,
 - b. Remove such material from the site, upon written approval of the RPR; or
 - **c.** Use such material for the Contractor's own temporary construction on site; or,
 - **d.** Use such material as intended by the terms of the contract.

Should the Contractor wish to exercise option a., b., or c., the Contractor shall request the RPR's approval in advance of such use.

Should the RPR approve the Contractor's request to exercise option a., b., or c., the Contractor shall be paid for the excavation or removal of such material at the applicable contract price. The Contractor shall replace, at their expense, such removed or excavated material with an agreed equal volume of material that is acceptable for use in constructing embankment, backfills, or otherwise to the extent that such replacement material is needed to complete the contract work. The Contractor shall not be charged for use of such material used in the work or removed from the site.

Should the RPR approve the Contractor's exercise of option a., the Contractor shall be paid, at the applicable contract price, for furnishing and installing such material in accordance with requirements of the contract item in which the material is used.

It is understood and agreed that the Contractor shall make no claim for delays by reason of their own exercise of option a., b., or c.

The Contractor shall not excavate, remove, or otherwise disturb any material, structure, or part of a structure which is located outside the lines, grades, or grading sections established for the work, except where such excavation or removal is provided for in the contract, plans, or specifications.

The engineer can modify this section if the Owner does not have rights to the material.

40-08 Final cleanup. Upon completion of the work and before acceptance and final payment will be made, the Contractor shall remove from the site all machinery, equipment, surplus and discarded materials, rubbish, temporary structures, and stumps or portions of trees. The Contractor shall cut all brush and woods within the limits indicated and shall leave the site in a neat and presentable condition. Material cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily, unless the Contractor has obtained the written permission of the property Owner.

END OF SECTION 40

Section 50

Control of Work

50-01 Authority of the Resident Project Representative (RPR). The RPR has final authority regarding the interpretation of project specification requirements. The RPR shall determine acceptability of the quality of materials furnished, method of performance of work performed, and the manner and rate of performance of the work. The RPR does not have the authority to accept work that does not conform to specification requirements.

50-02 Conformity with plans and specifications. All work and all materials furnished shall be in reasonably close conformity with the lines, grades, grading sections, cross-sections, dimensions, material requirements, and testing requirements that are specified (including specified tolerances) in the contract, plans, or specifications.

If the RPR finds the materials furnished, work performed, or the finished product not within reasonably close conformity with the plans and specifications, but that the portion of the work affected will, in their opinion, result in a finished product having a level of safety, economy, durability, and workmanship acceptable to the Owner, the RPR will advise the Owner of their determination that the affected work be accepted and remain in place. The RPR will document the determination and recommend to the Owner a basis of acceptance that will provide for an adjustment in the contract price for the affected portion of the work. Changes in the contract price must be covered by contract change order or supplemental agreement as applicable.

If the RPR finds the materials furnished, work performed, or the finished product are not in reasonably close conformity with the plans and specifications and have resulted in an unacceptable finished product, the affected work or materials shall be removed and replaced or otherwise corrected by and at the expense of the Contractor in accordance with the RPR's written orders.

The term "reasonably close conformity" shall not be construed as waiving the Contractor's responsibility to complete the work in accordance with the contract, plans, and specifications. The term shall not be construed as waiving the RPR's responsibility to insist on strict compliance with the requirements of the contract, plans, and specifications during the Contractor's execution of the work, when, in the RPR's opinion, such compliance is essential to provide an acceptable finished portion of the work.

The term "reasonably close conformity" is also intended to provide the RPR with the authority, after consultation with the Sponsor and FAA, to use sound engineering judgment in their determinations to accept work that is not in strict conformity, but will provide a finished product equal to or better than that required by the requirements of the contract, plans and specifications.

For Airport Improvement Program (AIP) contracts, the Owner must keep the FAA advised of the Engineer's determinations as to acceptance of work that is not in reasonably close conformity to the contract, plans, and specifications.

All change orders, supplemental agreements, and contract modifications must eventually be reviewed by the FAA. Unless specifically requested by the FAA, the Owner does not have to obtain prior FAA approval for contract changes except for the Buy American review, if required. However, if an Owner proceeds with contract changes without FAA approval, it is at the Owner's risk.

The RPR will not be responsible for the Contractor's means, methods, techniques, sequences, or procedures of construction or the safety precautions incident thereto.

50-03 Coordination of contract, plans, and specifications. The contract, plans, specifications, and all referenced standards cited are essential parts of the contract requirements. If electronic files are provided and used on the project and there is a conflict between the electronic files and hard copy plans, the hard copy plans shall govern. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of discrepancy, calculated dimensions will govern over scaled dimensions; contract technical specifications shall govern over contract general provisions, plans, cited standards for materials or testing, and cited advisory circulars (ACs); contract general provisions shall govern over plans, cited standards for materials or testing, and cited ACs; plans shall govern over cited standards for materials or testing and cited ACs. If any paragraphs contained in the Special Provisions conflict with General Provisions or Technical Specifications, the Special Provisions shall govern.

From time to time, discrepancies within cited testing standards occur due to the timing of the change, edits, and/or replacement of the standards. If the Contractor discovers any apparent discrepancy within standard test methods, the Contractor shall immediately ask the RPR for an interpretation and decision, and such decision shall be final.

The Contractor shall not take advantage of any apparent error or omission on the plans or specifications. In the event the Contractor discovers any apparent error or discrepancy, Contractor shall immediately notify the Owner or the designated representative in writing requesting their written interpretation and decision.

| 50-04 List of Special Provisions. [] |
|--|
| ********************** |
| The Engineer must list the Special Provisions in the order of precedence |
| ********************** |

50-05 Cooperation of Contractor. The Contractor shall be supplied with [five] hard copies or an electronic PDF of the plans and specifications. The Contractor shall have available on the construction site at all times one hardcopy each of the plans and specifications. Additional hard copies of plans and specifications may be obtained by the Contractor for the cost of reproduction.

The Contractor shall give constant attention to the work to facilitate the progress thereof, and shall cooperate with the RPR and their inspectors and with other Contractors in every way possible. The Contractor shall have a competent superintendent on the work at all times who is fully authorized as their agent on the work. The superintendent shall be capable of reading and

thoroughly understanding the plans and specifications and shall receive and fulfill instructions from the RPR or their authorized representative.

50-06 Cooperation between Contractors. The Owner reserves the right to contract for and perform other or additional work on or near the work covered by this contract. When separate contracts are let within the limits of any one project, each Contractor shall conduct the work not to interfere with or hinder the progress of completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.

Each Contractor involved shall assume all liability, financial or otherwise, in connection with their own contract and shall protect and hold harmless the Owner from any and all damages or claims that may arise because of inconvenience, delays, or loss experienced because of the presence and operations of other Contractors working within the limits of the same project.

The Contractor shall arrange their work and shall place and dispose of the materials being used to not interfere with the operations of the other Contractors within the limits of the same project.

The Contractor shall join their work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

50-07 Construction layout and stakes. The Engineer/RPR shall establish necessary horizontal and vertical control. The establishment of Survey Control and/or reestablishment of survey control shall be by a State Licensed Land Surveyor. Contractor is responsible for preserving integrity of horizontal and vertical controls established by Engineer/RPR. In case of negligence on the part of the Contractor or their employees, resulting in the destruction of any horizontal and vertical control, the resulting costs will be deducted as a liquidated damage against the Contractor.

Prior to the start of construction, the Contractor will check all control points for horizontal and vertical accuracy and certify in writing to the RPR that the Contractor concurs with survey control established for the project. All lines, grades and measurements from control points necessary for the proper execution and control of the work on this project will be provided to the RPR. The Contractor is responsible to establish all layout required for the construction of the project.

Copies of survey notes will be provided to the RPR for each area of construction and for each placement of material as specified to allow the RPR to make periodic checks for conformance with plan grades, alignments and grade tolerances required by the applicable material specifications. Surveys will be provided to the RPR prior to commencing work items that cover or disturb the survey staking. Survey(s) and notes shall be provided in the following format(s):

[___].)

Laser, GPS, String line, or other automatic control shall be checked with temporary control as necessary. In the case of error, on the part of the Contractor, their surveyor, employees or subcontractors, resulting in established grades, alignment or grade tolerances that do not concur with those specified or shown on the plans, the Contractor is solely responsible for correction, removal, replacement and all associated costs at no additional cost to the Owner.

The Engineer should specify the desired format and accuracy for electronic delivery of survey(s) in addition to hard copy(s). This should be applicable to all survey(s) throughout these specifications.

With FAA approval, additional survey criteria may be added.

No direct payment will be made, unless otherwise specified in contract documents, for this labor, materials, or other expenses. The cost shall be included in the price of the bid for the various items of the Contract.

50-08 Authority and duties of Quality Assurance (QA) inspectors. QA inspectors shall be authorized to inspect all work done and all material furnished. Such QA inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of the materials to be used. QA inspectors are not authorized to revoke, alter, or waive any provision of the contract. QA inspectors are not authorized to issue instructions contrary to the plans and specifications or to act as foreman for the Contractor.

QA Inspectors are authorized to notify the Contractor or their representatives of any failure of the work or materials to conform to the requirements of the contract, plans, or specifications and to reject such nonconforming materials in question until such issues can be referred to the RPR for a decision.

50-09 Inspection of the work. All materials and each part or detail of the work shall be subject to inspection. The RPR shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

If the RPR requests it, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standard required by the specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be paid for as extra work; but should the work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be at the Contractor's expense.

Provide advance written notice to the RPR of work the Contractor plans to perform each week and each day. Any work done or materials used without written notice and allowing opportunity for inspection by the RPR may be ordered removed and replaced at the Contractor's expense. Should the contract work include relocation, adjustment, or any other modification to existing facilities, not the property of the (contract) Owner, authorized representatives of the Owners of such facilities shall have the right to inspect such work. Such inspection shall in no sense make any facility owner a party to the contract, and shall in no way interfere with the rights of the parties to this contract.

50-10 Removal of unacceptable and unauthorized work. All work that does not conform to the requirements of the contract, plans, and specifications will be considered unacceptable,

unless otherwise determined acceptable by the RPR as provided in paragraph 50-02, *Conformity with Plans and Specifications*.

Unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner in accordance with the provisions of Section 70, paragraph 70-14, *Contractor's Responsibility for Work*. No removal work made under provision of this paragraph shall be done without lines and grades having been established by the RPR. Work done contrary to the instructions of the RPR, work done beyond the lines shown on the plans or as established by the RPR, except as herein specified, or any extra work done without authority, will be considered as unauthorized and will not be paid for under the provisions of the contract. Work so done may be ordered removed or replaced at the Contractor's expense.

Upon failure on the part of the Contractor to comply with any order of the RPR made under the provisions of this subsection, the RPR will have authority to cause unacceptable work to be remedied or removed and replaced; and unauthorized work to be removed and recover the resulting costs as a liquidated damage against the Contractor.

50-11 Load restrictions. The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the work. A special permit will not relieve the Contractor of liability for damage that may result from the moving of material or equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads will be permitted on a concrete pavement, base, or structure before the expiration of the curing period. The Contractor, at their own expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel.

The Engineer must check to see if the on-site project access roads and haul routes will support the construction equipment. Particular attention should be paid when sections of existing airfield pavements will be used as haul routes to assure that existing pavements are not overloaded. If questionable, the Engineer should add appropriate provisions to preserve or rehabilitate any access roads or haul routes to the bid documents. Various measures such as videotape or photographs may be required to document existing conditions prior to start of construction. Construction traffic should be kept off airport pavements to the extent possible.

50-12 Maintenance during construction. The Contractor shall maintain the work during construction and until the work is accepted. Maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the work is maintained in satisfactory condition at all times.

In the case of a contract for the placing of a course upon a course or subgrade previously

constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

All costs of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various contract items, and the Contractor will not be paid an additional amount for such work.

50-13 Failure to maintain the work. Should the Contractor at any time fail to maintain the work as provided in paragraph 50-12, *Maintenance during Construction*, the RPR shall immediately notify the Contractor of such noncompliance. Such notification shall specify a reasonable time within which the Contractor shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the exigency that exists.

Should the Contractor fail to respond to the RPR's notification, the Owner may suspend any work necessary for the Owner to correct such unsatisfactory maintenance condition, depending on the exigency that exists. Any maintenance cost incurred by the Owner, shall be recovered as a liquidated damage against the Contractor.

- **50-14 Partial acceptance**. If at any time during the execution of the project the Contractor substantially completes a usable unit or portion of the work, the occupancy of which will benefit the Owner, the Contractor may request the RPR to make final inspection of that unit. If the RPR finds upon inspection that the unit has been satisfactorily completed in compliance with the contract, the RPR may accept it as being complete, and the Contractor may be relieved of further responsibility for that unit. Such partial acceptance and beneficial occupancy by the Owner shall not void or alter any provision of the contract.
- **50-15 Final acceptance.** Upon due notice from the Contractor of presumptive completion of the entire project, the RPR and Owner will make an inspection. If all construction provided for and contemplated by the contract is found to be complete in accordance with the contract, plans, and specifications, such inspection shall constitute the final inspection. The RPR shall notify the Contractor in writing of final acceptance as of the date of the final inspection.
- If, however, the inspection discloses any work, in whole or in part, as being unsatisfactory, the RPR will notify the Contractor and the Contractor shall correct the unsatisfactory work. Upon correction of the work, another inspection will be made which shall constitute the final inspection, provided the work has been satisfactorily completed. In such event, the RPR will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.
- **50-16 Claims for adjustment and disputes.** If for any reason the Contractor deems that additional compensation is due for work or materials not clearly provided for in the contract, plans, or specifications or previously authorized as extra work, the Contractor shall notify the RPR in writing of their intention to claim such additional compensation before the Contractor begins the work on which the Contractor bases the claim. If such notification is not given or the RPR is not afforded proper opportunity by the Contractor for keeping strict account of actual cost as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor and the fact that the RPR has kept account of the cost of the work shall not in any way be construed as proving or substantiating the validity of the claim. When the work on which the claim for additional compensation is based has been

completed, the Contractor shall, within 10 calendar days, submit a written claim to the RPR who will present it to the Owner for consideration in accordance with local laws or ordinances. Nothing in this subsection shall be construed as a waiver of the Contractor's right to dispute final payment based on differences in measurements or computations.

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FAA concurrence must be obtained when this paragraph is included.

This paragraph may not be applied on construction management at-risk (CMAR) and Design-build project delivery methods after a gross maximum price (GMP) is established.

Use of this paragraph in project specifications is at the option of the Owner/Engineer.

This paragraph should not be incorporated into project specifications if State or local laws prohibit its use or if the project does not lend itself to value engineering.

The provisions of this paragraph will apply only to contracts awarded to the lowest bidder pursuant to competitive bidding.

On projects with original contract amounts in excess of \$100,000, the Contractor may submit to the RPR, in writing, proposals for modifying the plans, specifications or other requirements of the contract for the sole purpose of reducing the cost of construction. The value engineering cost proposal shall not impair, in any manner, the essential functions or characteristics of the project, including but not limited to service life, economy of operation, ease of maintenance, desired appearance, design and safety standards. This provision shall not apply unless the proposal submitted is specifically identified by the Contractor as being presented for consideration as a value engineering proposal.

Not eligible for value engineering cost proposals are changes in the basic design of a pavement type, runway and taxiway lighting, visual aids, hydraulic capacity of drainage facilities, or changes in grade or alignment that reduce the geometric standards of the project.

As a minimum, the following information shall be submitted by the Contractor with each proposal:

- a. A description of both existing contract requirements for performing the work and the proposed changes, with a discussion of the comparative advantages and disadvantages of each.
- b. An itemization of the contract requirements that must be changed if the proposal is adopted.
- c. A detailed estimate of the cost of performing the work under the existing contract and under the proposed changes.
 - d. A statement of the time by which a change order adopting the proposal must be issued.

- e. A statement of the effect adoption of the proposal will have on the time for completion of the contract.
- f. The contract items of work affected by the proposed changes, including any quantity variation attributable to them.

The Contractor may withdraw, in whole or in part, any value engineering cost proposal not accepted by the RPR, within the period specified in the proposal. The provisions of this subsection shall not be construed to require the RPR to consider any value engineering cost proposal that may be submitted.

The Contractor shall continue to perform the work in accordance with the requirements of the contract until a change order incorporating the value engineering cost proposal has been issued. If a change order has not been issued by the date upon which the Contractor's value engineering cost proposal specifies that a decision should be made, or such other date as the Contractor may subsequently have requested in writing, such value engineering cost proposal shall be deemed rejected.

The RPR shall be the sole judge of the acceptability of a value engineering cost proposal and of the estimated net savings from the adoption of all or any part of such proposal. In determining the estimated net savings, the RPR may disregard the contract bid prices if, in the RPR's judgment such prices do not represent a fair measure of the value of the work to be performed or deleted.

The Owner may require the Contractor to share in the Owner's costs of investigating a value engineering cost proposal submitted by the Contractor as a condition of considering such proposal. Where such a condition is imposed, the Contractor shall acknowledge acceptance of it in writing. Such acceptance shall constitute full authority for the Owner to deduct the cost of investigating a value engineering cost proposal from amounts payable to the Contractor under the contract.

If the Contractor's value engineering cost proposal is accepted in whole or in part, such acceptance will be by a contract change order that shall specifically state that it is executed pursuant to this paragraph. Such change order shall incorporate the changes in the plans and specifications which are necessary to permit the value engineering cost proposal or such part of it as has been accepted and shall include any conditions upon which the RPR's approval is based. The change order shall also set forth the estimated net savings attributable to the value engineering cost proposal. The net savings shall be determined as the difference in costs between the original contract costs for the involved work items and the costs occurring as a result of the proposed change. The change order shall also establish the net savings agreed upon and shall provide for adjustment in the contract price that will divide the net savings equally between the Contractor and the Owner.

The Contractor's 50% share of the net savings shall constitute full compensation to the Contractor for the value engineering cost proposal and the performance of the work. Acceptance of the value engineering cost proposal and performance of the work shall not extend the time of completion of the contract unless specifically provided for in the contract change order.

END OF SECTION 50

Control of Materials

60-01 Source of supply and quality requirements. The materials used in the work shall conform to the requirements of the contract, plans, and specifications. Unless otherwise specified, such materials that are manufactured or processed shall be new (as compared to used or reprocessed).

In order to expedite the inspection and testing of materials, the Contractor shall furnish documentation to the RPR as to the origin, composition, and manufacture of all materials to be used in the work. Documentation shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials.

Federal Contract Clauses are available at the following FAA website:
www.faa.gov/airports/aip/procurement/federal contract provisions/

At the RPR's option, materials may be approved at the source of supply before delivery. If it is found after trial that sources of supply for previously approved materials do not produce specified products, the Contractor shall furnish materials from other sources.

The Contractor shall furnish airport lighting equipment that meets the requirements of the specifications; and is listed in AC 150/5345-53, *Airport Lighting Equipment Certification Program* and *Addendum*, that is in effect on the date of advertisement.

60-02 Samples, tests, and cited specifications. All materials used in the work shall be inspected, tested, and approved by the RPR before incorporation in the work unless otherwise designated. Any work in which untested materials are used without approval or written permission of the RPR shall be performed at the Contractor's risk. Materials found to be unacceptable and unauthorized will not be paid for and, if directed by the RPR, shall be removed at the Contractor's expense.

Unless otherwise designated, quality assurance tests will be made by and at the expense of the Owner in accordance with the cited standard methods of ASTM, American Association of State Highway and Transportation Officials (AASHTO), federal specifications, Commercial Item Descriptions, and all other cited methods, which are current on the date of advertisement for bids.

The testing organizations performing on-site quality assurance field tests shall have copies of all referenced standards on the construction site for use by all technicians and other personnel. Unless otherwise designated, samples for quality assurance will be taken by a qualified representative of the RPR. All materials being used are subject to inspection, test, or rejection at any time prior to or during incorporation into the work. Copies of all tests will be furnished to the Contractor's representative at their request after review and approval of the RPR.

A copy of all Contractor QC test data shall be provided to the RPR daily, along with printed reports, in an approved format, on a weekly basis. After completion of the project, and prior to

final payment, the Contractor shall submit a final report to the RPR showing all test data reports, plus an analysis of all results showing ranges, averages, and corrective action taken on all failing tests.

[The Contractor shall employ a Quality Control (QC) testing organization to perform all Contractor required QC tests in accordance with Item C-100 Contractor Quality Control Program (CQCP).]

The Engineer may wish to include a requirement that all test data from the Contractor be furnished in electronic format. The Engineer shall provide detailed specifications to specify the acceptable format to be used.

Delete bracketed text when Item C-100 is not included in the specifications.

60-03 Certification of compliance/analysis (COC/COA). The RPR may permit the use, prior to sampling and testing, of certain materials or assemblies when accompanied by manufacturer's COC stating that such materials or assemblies fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer. Each lot of such materials or assemblies delivered to the work must be accompanied by a certificate of compliance in which the lot is clearly identified. The COA is the manufacturer's COC and includes all applicable test results.

Materials or assemblies used on the basis of certificates of compliance may be sampled and tested at any time and if found not to be in conformity with contract requirements will be subject to rejection whether in place or not.

The form and distribution of certificates of compliance shall be as approved by the RPR. When a material or assembly is specified by "brand name or equal" and the Contractor elects to furnish the specified "or equal," the Contractor shall be required to furnish the manufacturer's certificate of compliance for each lot of such material or assembly delivered to the work. Such certificate of compliance shall clearly identify each lot delivered and shall certify as to:

- **a.** Conformance to the specified performance, testing, quality or dimensional requirements; and,
 - **b.** Suitability of the material or assembly for the use intended in the contract work.

The RPR shall be the sole judge as to whether the proposed "or equal" is suitable for use in the work.

The RPR reserves the right to refuse permission for use of materials or assemblies on the basis of certificates of compliance.

When it is impractical to make a clear and accurate description of a technical requirement, Owner may specify a requirement by "Brand Name or approved Equal," provided the performance features and salient requirements that establish equivalency are explicitly and clearly stated. To avoid unfair influence, provide known vendors / suppliers who can meet the stated requirements.

60-04 Plant inspection. The RPR or their authorized representative may inspect, at its source, any specified material or assembly to be used in the work. Manufacturing plants may be inspected from time to time for the purpose of determining compliance with specified manufacturing methods or materials to be used in the work and to obtain samples required for acceptance of the material or assembly.

Should the RPR conduct plant inspections, the following conditions shall exist:

- **a.** The RPR shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- **b.** The RPR shall have full entry at all reasonable times to such parts of the plant that concern the manufacture or production of the materials being furnished.
- **c.** If required by the RPR, the Contractor shall arrange for adequate office or working space that may be reasonably needed for conducting plant inspections. Place office or working space in a convenient location with respect to the plant.

It is understood and agreed that the Owner shall have the right to retest any material that has been tested and approved at the source of supply after it has been delivered to the site. The RPR shall have the right to reject only material which, when retested, does not meet the requirements of the contract, plans, or specifications.

60-05 Engineer/ Resident Project Representative (RPR) field office. [The Contractor shall provide dedicated space for the use of the engineer, RPR, and inspectors, as a field office for the duration of the project. This space shall be located conveniently near the construction and shall be separate from any space used by the Contractor. The Contractor shall furnish water, sanitary facilities, heat, air conditioning, and electricity. **]** [An Engineer/RPR field office is not required. **] Not Applicable.**

Requirements for specifying the Engineer's (RPR) field office and a space for Quality Assurance mobile laboratory should be coordinated with the Owner and the Engineer since such facilities are not needed for all airport construction projects. If a field office is required for the project, a separate line item for payment may be established. Additional office space, with approval of the owner, may be appropriate based on the size and duration of the project.

60-06 Storage of materials. Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located to facilitate their prompt inspection. The Contractor shall coordinate the storage of all materials with the RPR. Materials to be stored on airport property shall not create an obstruction to air navigation nor shall they interfere with the free and unobstructed movement of aircraft. Unless otherwise shown on the plans and/or CSPP, the storage of materials and the location of the Contractor's plant and parked equipment or vehicles shall be as directed by the RPR. Private property shall not be used for storage purposes without written permission of the Owner or lessee of such property. The Contractor shall make all arrangements and bear all expenses for the storage of materials on private property. Upon request, the Contractor shall furnish the RPR a copy of the property Owner's permission.

All storage sites on private or airport property shall be restored to their original condition by the

Contractor at their expense, except as otherwise agreed to (in writing) by the Owner or lessee of the property.

60-07 Unacceptable materials. Any material or assembly that does not conform to the requirements of the contract, plans, or specifications shall be considered unacceptable and shall be rejected. The Contractor shall remove any rejected material or assembly from the site of the work, unless otherwise instructed by the RPR.

Rejected material or assembly, the defects of which have been corrected by the Contractor, shall not be returned to the site of the work until such time as the RPR has approved its use in the work.

60-08 Owner furnished materials. The Contractor shall furnish all materials required to complete the work, except those specified, if any, to be furnished by the Owner. Owner-furnished materials shall be made available to the Contractor at the location specified. All costs of handling, transportation from the specified location to the site of work, storage, and installing Owner-furnished materials shall be included in the unit price bid for the contract item in which such Owner-furnished material is used.

After any Owner-furnished material has been delivered to the location specified, the Contractor shall be responsible for any demurrage, damage, loss, or other deficiencies that may occur during the Contractor's handling, storage, or use of such Owner-furnished material. The Owner will deduct from any monies due or to become due the Contractor any cost incurred by the Owner in making good such loss due to the Contractor's handling, storage, or use of Owner-furnished materials.

END OF SECTION 60

Section 70

Legal Regulations and Responsibility to the Public

70-01 Laws to be observed. The Contractor shall keep fully informed of all federal and state laws, all local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. The Contractor shall at all times observe and comply with all such laws, ordinances, regulations, orders, and decrees; and shall protect and indemnify the Owner and all their officers, agents, or servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or the Contractor's employees.

70-02 Permits, **licenses**, **and taxes**. The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful execution of the work.

70-03 Patented devices, materials, and processes. If the Contractor is required or desires to use any design, device, material, or process covered by letters of patent or copyright, the Contractor shall provide for such use by suitable legal agreement with the Patentee or Owner. The Contractor and the surety shall indemnify and hold harmless the Owner, any third party, or political subdivision from any and all claims for infringement by reason of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Owner for any costs, expenses, and damages which it may be obliged to pay by reason of an infringement, at any time during the execution or after the completion of the work.

List all authorized work and include the following information as a minimum:

- Owner (Utility or Other Facility)
- Location (See Plan Sheet No.)
- Person to Contact (Name, Title, Address and Phone)

Except as listed above, the Contractor shall not permit any individual, firm, or corporation to excavate or otherwise disturb such utility services or facilities located within the limits of the work without the written permission of the RPR.

Should the Owner of public or private utility service, FAA, or NOAA facility, or a utility service of

another government agency be authorized to construct, reconstruct, or maintain such utility service or facility during the progress of the work, the Contractor shall cooperate with such Owners by arranging and performing the work in this contract to facilitate such construction, reconstruction or maintenance by others whether or not such work by others is listed above.

When ordered as extra work by the RPR, the Contractor shall make all necessary repairs to the work which are due to such authorized work by others, unless otherwise provided for in the contract, plans, or specifications. It is understood and agreed that the Contractor shall not be entitled to make any claim for damages due to such authorized work by others or for any delay to the work resulting from such authorized work.

The intention of this subsection is to provide for both foreseen and unforeseen work by Owners of utility services and other facilities on the airport. Such Owners have legal rights and obligations under some form of easement with the airport Owner. Every effort should be made, during the initial design phase, to coordinate the proposed contract work with such Owners so that their rights and obligations are provided for the in the contract, plans, and specifications. Where there is conflict between an existing utility service (or facility) and the proposed work or where the Owner of the utility or facility must perform work to construct, reconstruct, or maintain the utility or facility, such work should be listed in this subsection and provided for in the contract, plans and specifications. In addition, all known utility services or facilities that are within the limits of the proposed work should be shown on the plans (regardless of whether or not there is a conflict of work to be performed by the Owner) with enough detailed information to indicate the lack of conflicts.

70-05 Federal Participation. The United States Government has agreed to reimburse the Owner for some portion of the contract costs. The contract work is subject to the inspection and approval of duly authorized representatives of the FAA Administrator. No requirement of this contract shall be construed as making the United States a party to the contract nor will any such requirement interfere, in any way, with the rights of either party to the contract.

70-06 Sanitary, **health**, **and safety provisions**. The Contractor's worksite and facilities shall comply with applicable federal, state, and local requirements for health, safety and sanitary provisions.

70-07 Public convenience and safety. The Contractor shall control their operations and those of their subcontractors and all suppliers, to assure the least inconvenience to the traveling public. Under all circumstances, safety shall be the most important consideration. The Contractor shall maintain the free and unobstructed movement of aircraft and vehicular traffic with respect to their own operations and those of their own subcontractors and all suppliers in accordance with Section 40, paragraph 40-05, *Maintenance of Traffic*, and shall limit such operations for the convenience and safety of the traveling public as specified in Section 80, paragraph 80-04, *Limitation of Operations*.

The Contractor shall remove or control debris and rubbish resulting from its work operations at frequent intervals, and upon the order of the RPR. If the RPR determines the existence of

Contractor debris in the work site represents a hazard to airport operations and the Contractor is unable to respond in a prompt and reasonable manner, the RPR reserves the right to assign the task of debris removal to a third party and recover the resulting costs as a liquidated damage against the Contractor.

| 70-08 Construction Safety and Phasing Plan (CSPP). The Contractor shall complete the work in accordance with the approved Construction Safety and Phasing Plan (CSPP) developed n accordance with AC 150/5370-2, Operational Safety on Airports During Construction. The CSPP is on sheet(s) [] of the project plans. Not applicable. |
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| The Engineer must add the location of the CSPP. |
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70-09 Use of explosives. [The use of explosives is not permitted on this project.] [When the use of explosives is necessary for the execution of the work, the Contractor shall exercise the utmost care not to endanger life or property, including new work. The Contractor shall be responsible for all damage resulting from the use of explosives.

All explosives shall be stored in a secure manner in compliance with all laws and ordinances, and all such storage places shall be clearly marked. Where no local laws or ordinances apply, storage shall be provided satisfactory to the RPR and, in general, not closer than 1,000 feet (300 m) from the work or from any building, road, or other place of human occupancy.

The Contractor shall notify each property Owner and public utility company having structures or facilities in proximity to the site of the work of their intention to use explosives. Such notice shall be given sufficiently in advance to enable them to take such steps as they may deem necessary to protect their property from injury.

The use of electrical blasting caps shall not be permitted on or within 1,000 feet (300 m) of the airport property.]

70-10 Protection and restoration of property and landscape. The Contractor shall be responsible for the preservation of all public and private property, and shall protect carefully from disturbance or damage all land monuments and property markers until the Engineer/RPR has witnessed or otherwise referenced their location and shall not move them until directed.

The Contractor shall be responsible for all damage or injury to property of any character, during the execution of the work, resulting from any act, omission, neglect, or misconduct in manner or method of executing the work, or at any time due to defective work or materials, and said responsibility shall not be released until the project has been completed and accepted.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the non-execution thereof by the Contractor, the Contractor shall restore, at their expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.

70-11 Responsibility for damage claims. The Contractor shall indemnify and hold harmless the Engineer/RPR and the Owner and their officers, agents, and employees from all suits, actions, or claims, of any character, brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Workmen's Compensation Act." or any other law, ordinance, order, or decree. Money due the Contractor under and by virtue of their own contract considered necessary by the Owner for such purpose may be retained for the use of the Owner or, in case no money is due, their own surety may be held until such suits, actions, or claims for injuries or damages shall have been settled and suitable evidence to that effect furnished to the Owner, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that he or she is adequately protected by public liability and property damage insurance.

70-12 Third party beneficiary clause. It is specifically agreed between the parties executing the contract that it is not intended by any of the provisions of any part of the contract to create for the public or any member thereof, a third-party beneficiary or to authorize anyone not a party to the contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of the contract.

70-13 Opening sections of the work to traffic. If it is necessary for the Contractor to complete portions of the contract work for the beneficial occupancy of the Owner prior to completion of the entire contract, such "phasing" of the work must be specified below and indicated on the approved Construction Safety and Phasing Plan (CSPP) and the project plans. When so specified, the Contractor shall complete such portions of the work on or before the date specified or as otherwise specified.

The Engineer shall identify phase/description(s) and provide the following minimum information for each phase/description(s):

- Phase or Description
- Required Date or Sequence of Owner's Beneficial Occupancy
- Work Shown on Plan Sheet

The Owner's requirements for "phasing" the work should be coordinated with agencies having an interest in operational capability of the airport. Such coordination must be accomplished at the earliest possible time. See AC 150/5370-12, Quality Management for Federally Funded Airport Construction Projects.

The Engineer should include a section on airport safety in the bid documents that has, as a minimum, the information contained in AC 150/5370-2, Operational Safety on Airports During Construction; the Construction Safety and Phasing Plan

(CSPP); and any additional requirements as a result of a Safety Risk Management (SRM) review, if required.

Upon completion of any portion of work listed above, such portion shall be accepted by the Owner in accordance with Section 50, paragraph 50-14, *Partial Acceptance*.

No portion of the work may be opened by the Contractor until directed by the Owner in writing. Should it become necessary to open a portion of the work to traffic on a temporary or intermittent basis, such openings shall be made when, in the opinion of the RPR, such portion of the work is in an acceptable condition to support the intended traffic. Temporary or intermittent openings are considered to be inherent in the work and shall not constitute either acceptance of the portion of the work so opened or a waiver of any provision of the contract. Any damage to the portion of the work so opened that is not attributable to traffic which is permitted by the Owner shall be repaired by the Contractor at their expense.

The Contractor shall make their own estimate of the inherent difficulties involved in completing the work under the conditions herein described and shall not claim any added compensation by reason of delay or increased cost due to opening a portion of the contract work. The Contractor must conform to safety standards contained AC 150/5370-2 and the approved CSPP.

Contractor shall refer to the plans, specifications, and the approved CSPP to identify barricade requirements, temporary and/or permanent markings, airfield lighting, guidance signs and other safety requirements prior to opening up sections of work to traffic.

70-14 Contractor's responsibility for work. Until the RPR's final written acceptance of the entire completed work, excepting only those portions of the work accepted in accordance with Section 50, paragraph 50-14, *Partial Acceptance*, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part due to the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof except damage to the work due to unforeseeable causes beyond the control of and without the fault or negligence of the Contractor, including but not restricted to acts of God such as earthquake, tidal wave, tornado, hurricane or other cataclysmic phenomenon of nature, or acts of the public enemy or of government authorities.

If the work is suspended for any cause whatever, the Contractor shall be responsible for the work and shall take such precautions necessary to prevent damage to the work. The Contractor shall provide for normal drainage and shall erect necessary temporary structures, signs, or other facilities at their own expense. During such period of suspension of work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established planting, seeding, and sodding furnished under the contract, and shall take adequate precautions to protect new tree growth and other important vegetative growth against injury.

70-15 Contractor's responsibility for utility service and facilities of others. As provided in paragraph 70-04, *Restoration of Surfaces Disturbed by Others*, the Contractor shall cooperate

with the owner of any public or private utility service, FAA or NOAA, or a utility service of another government agency that may be authorized by the Owner to construct, reconstruct or maintain such utility services or facilities during the progress of the work. In addition, the Contractor shall control their operations to prevent the unscheduled interruption of such utility services and facilities.

To the extent that such public or private utility services, FAA, or NOAA facilities, or utility services of another governmental agency are known to exist within the limits of the contract work, the approximate locations have been indicated on the plans and/or in the contract documents.

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The Engineer shall list all known services and provide the following minimum information for each service:

- Utility Service or Facility, or FAA Air Traffic Organization (ATO)/ Technical Operations/System Support Center (SSC)
- Person to Contract (Name, Title, Address, and Phone)
- Owner's Emergency Contact (Phone)

The plans shall show the approximate location of the utilities or facilities known to exist within the limits of the contract work. The proposed contract plans and specifications shall be coordinated with the various Owners at the earliest possible time to avoid overlooking utility conflicts in the design and to obtain the best possible information needed to protect such utility services or facilities from damage resulting from the Contractor's operations. Where conflicts are indicated during the coordination, they shall be resolved by the airport Owner and the utility owner, in accordance with existing legal agreements, by providing for work in the proposed contract or by the utility owner. In such cases of conflict, regardless of how the conflict is resolved, the airport Owner and utility owner should also be advised of the need to furnish the best information possible as to location of the utility service or facility to ensure protection during the proposed contract work.

It is understood and agreed that the Owner does not guarantee the accuracy or the completeness of the location information relating to existing utility services, facilities, or structures that may be shown on the plans or encountered in the work. Any inaccuracy or omission in such information shall not relieve the Contractor of the responsibility to protect such existing features from damage or unscheduled interruption of service.

It is further understood and agreed that the Contractor shall, upon execution of the contract, notify the Owners of all utility services or other facilities of their plan of operations. Such notification shall be in writing addressed to "The Person to Contact" as provided in this paragraph and paragraph 70-04, *Restoration of Surfaces Disturbed By Others*. A copy of each notification shall be given to the RPR.

In addition to the general written notification provided, it shall be the responsibility of the Contractor to keep such individual Owners advised of changes in their plan of operations that

would affect such Owners.

Prior to beginning the work in the general vicinity of an existing utility service or facility, the Contractor shall again notify each such Owner of their plan of operation. If, in the Contractor's opinion, the Owner's assistance is needed to locate the utility service or facility or the presence of a representative of the Owner is desirable to observe the work, such advice should be included in the notification. Such notification shall be given by the most expeditious means to reach the utility owner's "Person to Contact" no later than two normal business days prior to the Contractor's commencement of operations in such general vicinity. The Contractor shall furnish a written summary of the notification to the RPR.

The Contractor's failure to give the two days' notice shall be cause for the Owner to suspend the Contractor's operations in the general vicinity of a utility service or facility.

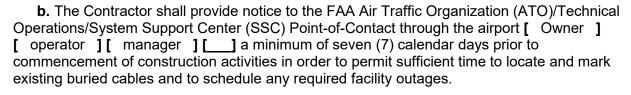
Where the outside limits of an underground utility service have been located and staked on the ground, the Contractor shall be required to use hand excavation methods within 3 feet (1 m) of such outside limits at such points as may be required to ensure protection from damage due to the Contractor's operations.

Should the Contractor damage or interrupt the operation of a utility service or facility by accident or otherwise, the Contractor shall immediately notify the proper authority and the RPR and shall take all reasonable measures to prevent further damage or interruption of service. The Contractor, in such events, shall cooperate with the utility service or facility owner and the RPR continuously until such damage has been repaired and service restored to the satisfaction of the utility or facility owner.

The Contractor shall bear all costs of damage and restoration of service to any utility service or facility due to their operations whether due to negligence or accident. The Owner reserves the right to deduct such costs from any monies due or which may become due the Contractor, or their own surety.

[70-15.1 FAA facilities and cable runs. The Contractor is hereby advised that the construction limits of the project include existing facilities and buried cable runs that are owned, operated and maintained by the FAA. The Contractor, during the execution of the project work, shall comply with the following:

a. The Contractor shall permit FAA maintenance personnel the right of access to the project work site for purposes of inspecting and maintaining all existing FAA owned facilities.



FAA Airports (ARP) will inform the Airport Owner of their requirement to notify the FAA preferably a minimum of 45 days prior to scheduled interruptions and airport projects with the potential to cause significant impacts to the National Airspace System (NAS). This is handled through the Internet Obstruction

| Evaluation/Airport Airspace Analysis (iOE/AAA) process and the airspace | е |
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| determination letter. | |

c. If execution of the project work requires a facility outage, the Contractor shall contact the FAA Point-of-Contact a minimum of 72 hours prior to the time of the required outage.

d. Any damage to FAA cables, access roads, or FAA facilities during construction caused by the Contractor's equipment or personnel whether by negligence or accident will require the Contractor to repair or replace the damaged cables, access road, or FAA facilities to FAA requirements. The Contractor shall not bear the cost to repair damage to underground facilities or utilities improperly located by the FAA.

Any displaced or relocated FAA facility or cables due to construction will require a signed and executed reimbursable agreement between the Owner and the FAA Tech Ops Division.

The splicing of cables may not be an acceptable form of repair for certain projects. If any FAA cables are damaged, the Owner shall replace the cables in their entirety.

e. If the project work requires the cutting or splicing of FAA owned cables, the FAA Point-of-Contact shall be contacted a minimum of 72 hours prior to the time the cable work commences. The FAA reserves the right to have a FAA representative on site to observe the splicing of the cables as a condition of acceptance. All cable splices are to be accomplished in accordance with FAA specifications and require approval by the FAA Point-of-Contact as a condition of acceptance by the Owner. The Contractor is hereby advised that FAA restricts the location of where splices may be installed. If a cable splice is required in a location that is not permitted by FAA, the Contractor shall furnish and install a sufficient length of new cable that eliminates the need for any splice. **1**

The Engineer should include paragraph 70-15.1 when existing FAA owned facilities and/or cable runs are located within the construction limits.

70-16 Furnishing rights-of-way. The Owner will be responsible for furnishing all rights-of-way upon which the work is to be constructed in advance of the Contractor's operations.

70-17 Personal liability of public officials. In carrying out any of the contract provisions or in exercising any power or authority granted by this contract, there shall be no liability upon the Engineer, RPR, their authorized representatives, or any officials of the Owner either personally or as an official of the Owner. It is understood that in such matters they act solely as agents and representatives of the Owner.

70-18 No waiver of legal rights. Upon completion of the work, the Owner will expeditiously make final inspection and notify the Contractor of final acceptance. Such final acceptance,

however, shall not preclude or stop the Owner from correcting any measurement, estimate, or certificate made before or after completion of the work, nor shall the Owner be precluded or stopped from recovering from the Contractor or their surety, or both, such overpayment as may be sustained, or by failure on the part of the Contractor to fulfill their obligations under the contract. A waiver on the part of the Owner of any breach of any part of the contract shall not be held to be a waiver of any other or subsequent breach.

The Contractor, without prejudice to the terms of the contract, shall be liable to the Owner for latent defects, fraud, or such gross mistakes as may amount to fraud, or as regards the Owner's rights under any warranty or guaranty.

70-19 Environmental protection. The Contractor shall comply with all federal, state, and local laws and regulations controlling pollution of the environment. The Contractor shall take necessary precautions to prevent pollution of streams, lakes, ponds, and reservoirs with fuels, oils, asphalts, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

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| Engineer may add project specific requirements. |
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70-20 Archaeological and historical findings. Unless otherwise specified in this subsection, the Contractor is advised that the site of the work is not within any property, district, or site, and does not contain any building, structure, or object listed in the current National Register of Historic Places published by the United States Department of Interior.

Should the Contractor encounter, during their operations, any building, part of a building, structure, or object that is incongruous with its surroundings, the Contractor shall immediately cease operations in that location and notify the RPR. The RPR will immediately investigate the Contractor's finding and the Owner will direct the Contractor to either resume operations or to suspend operations as directed.

Should the Owner order suspension of the Contractor's operations in order to protect an archaeological or historical finding, or order the Contractor to perform extra work, such shall be covered by an appropriate contract change order or supplemental agreement as provided in Section 40, paragraph 40-04, *Extra Work*, and Section 90, paragraph 90-05, *Payment for Extra Work*. If appropriate, the contract change order or supplemental agreement shall include an extension of contract time in accordance with Section 80, paragraph 80-07, *Determination and Extension of Contract Time*.

The contract language suggested in paragraph70-20 is intended to remind airport Owners that proper planning will prevent construction delays that may be caused when objects of archaeological or historical significance are encountered in the work. Airport Owners should include in their planning the coordination with state and local planning bodies as may be required by state and local laws pertaining to the National Historic Preservation Act of 1966.

| As a general rule, disposition of known archaeological or historic objects that are situated on the site of the work should be covered by a separate contract when such disposition is required as a part of FAA project approval. | |
|--|---|
| 70-21 Insurance Requirements. [Insert local insurance requirements for the project. |] |
| ****************** | |
| Insert local insurance requirements for commercial general and umbrella liability; commercial auto and umbrella liability; worker's compensation; property; and/or other types of coverage required by the project. | |
| ****************** | |

END OF SECTION 70

Section 80

Execution and Progress

80-01 Subletting of contract. The Owner will not recognize any subcontractor on the work. The Contractor shall at all times when work is in progress be represented either in person, by a qualified superintendent, or by other designated, qualified representative who is duly authorized to receive and execute orders of the Resident Project Representative (RPR).

The Contractor shall perform, with his organization, an amount of work equal to at least **[___]** percent of the total contract cost.

Should the Contractor elect to assign their contract, said assignment shall be concurred in by the surety, shall be presented for the consideration and approval of the Owner, and shall be consummated only on the written approval of the Owner.

The Engineer should determine the percentage of work to be performed by the prime Contractor on a project basis (typically at least 25%).

The Contractor shall provide copies of all subcontracts to the RPR [14] days prior to being utilized on the project. As a minimum, the information shall include the following:

- Subcontractor's legal company name.
- Subcontractor's legal company address, including County name.
- Principal contact person's name, telephone and fax number.
- Complete narrative description, and dollar value of the work to be performed by the subcontractor.
- Copies of required insurance certificates in accordance with the specifications.
- Minority/ non-minority status.

80-02 Notice to proceed (NTP). The Owners notice to proceed will state the date on which contract time commences. The Contractor is expected to commence project operations within <code>[___]</code> days of the NTP date. The Contractor shall notify the RPR at least <code>[24 hours]</code> in advance of the time contract operations begins. The Contractor shall not commence any actual operations prior to the date on which the notice to proceed is issued by the Owner.

Notification time in excess of 24 hours must be justified. Owner may allow limited mobilization to the work site provided such action does not require presence of the RPR and the Contractor assumes all risks associated with a delay to the NTP issuance.

80-03 Execution and progress. Unless otherwise specified, the Contractor shall submit their coordinated construction schedule showing all work activities for the RPR's review and acceptance at least [10 days] prior to the start of work. The Contractor's progress schedule, once accepted by the RPR, will represent the Contractor's baseline plan to accomplish the project in accordance with the terms and conditions of the Contract. The RPR will compare actual Contractor progress against the baseline schedule to determine that status of the Contractor's performance. The Contractor shall provide sufficient materials, equipment, and labor to guarantee the completion of the project in accordance with the plans and specifications within the time set forth in the proposal.

If the Contractor falls significantly behind the submitted schedule, the Contractor shall, upon the RPR's request, submit a revised schedule for completion of the work within the contract time and modify their operations to provide such additional materials, equipment, and labor necessary to meet the revised schedule. Should the execution of the work be discontinued for any reason, the Contractor shall notify the RPR at least [24 hours] in advance of resuming operations.

The Contractor shall not commence any actual construction prior to the date on which the NTP is issued by the Owner.

[The project schedule shall be prepared as a network diagram in Critical Path Method (CPM), Program Evaluation and Review Technique (PERT), or other format, or as otherwise specified. It shall include information on the sequence of work activities, milestone dates, and activity duration. The schedule shall show all work items identified in the project proposal for each work area and shall include the project start date and end date.]

For projects over \$500,000, insert the above bracketed language edited for project specific scheduling requirements.

The Contractor shall maintain the work schedule and provide an update and analysis of the progress schedule on a [twice] monthly basis, or as otherwise specified in the contract. Submission of the work schedule shall not relieve the Contractor of overall responsibility for scheduling, sequencing, and coordinating all work to comply with the requirements of the contract.

In general, it is important that the Owner issue the NTP for Airport Improvement Program (AIP) contracts because any actual construction work, performed prior to the execution of a grant agreement, (between the Owner and the FAA) may be ineligible for FAA participation in its cost. Check with the FAA for exceptions.

80-04 Limitation of operations. The Contractor shall control their operations and the operations of their subcontractors and all suppliers to provide for the free and unobstructed movement of aircraft in the air operations areas (AOA) of the airport.

When the work requires the Contractor to conduct their operations within an AOA of the airport, the work shall be coordinated with airport operations (through the RPR) at least [48 hours] prior to commencement of such work. The Contractor shall not close an AOA until so authorized by the RPR and until the necessary temporary marking, signage and associated lighting is in place as provided in Section 70, paragraph 70-08, *Construction Safety and Phasing Plan (CSPP)*.

When the contract work requires the Contractor to work within an AOA of the airport on an intermittent basis (intermittent opening and closing of the AOA), the Contractor shall maintain constant communications as specified; immediately obey all instructions to vacate the AOA; and immediately obey all instructions to resume work in such AOA. Failure to maintain the specified communications or to obey instructions shall be cause for suspension of the Contractor's operations in the AOA until satisfactory conditions are provided. The areas of the AOA identified in the Construction Safety Phasing Plan (CSPP) and as listed below, cannot be closed to operating aircraft to permit the Contractor's operations on a continuous basis and will therefore be closed to aircraft operations intermittently as follows:

| ***** | ****** | ****** | ****** | ***** |
|-------|--------|--------|--------|-------|

The Engineer shall identify areas of the AOA that cannot be closed to operating aircraft to permit the Contractor's operations on a continuous basis. As a minimum, the following information is required for each area:

- AOA
- Time periods AOA can be closed
- Type of communication(s) required when working in an AOA
- Control authority including driver training and/or safety training

It is intended that the contract provisions which limit the Contractor's operations be specified for all AOA of the airport that are not intended to be closed to permit continuous construction operations. These contract provisions vary widely from airport to airport and require careful coordination (during the early stages of designing the work) with the Owner, FAA, and the users of the airport. Advisory circular (AC) 150/5370-12, Quality Management for Federally Funded Airport Construction Projects, contains additional information on this subject.

The Engineer should include a section on airport safety in the bid documents that has, as a minimum, the information contained in AC 150/5370-2, Operational Safety on Airports During Construction; the Construction Safety and Phasing Plan (CSPP); and any additional requirements as a result of a Safety Risk Management (SRM) review, if required.

The Contractor shall be required to conform to safety standards contained in AC 150/5370-2, Operational Safety on Airports During Construction and the approved CSPP.

80-04.1 Operational safety on airport during construction. All Contractors' operations shall be conducted in accordance with the approved project Construction Safety and Phasing Plan (CSPP) and the Safety Plan Compliance Document (SPCD) and the provisions set forth within the current version of AC 150/5370-2, Operational Safety on Airports During Construction. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a SPCD that details how it proposes to comply with the requirements presented within the CSPP. The Contractor shall implement all necessary safety plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures. **Not applicable.**

The Contractor is responsible to the Owner for the conduct of all subcontractors it employs on the project. The Contractor shall assure that all subcontractors are made aware of the requirements of the CSPP and SPCD and that they implement and maintain all necessary measures. **Not applicable.**

No deviation or modifications may be made to the approved CSPP and SPCD unless approved in writing by the Owner. The necessary coordination actions to review Contractor proposed modifications to an approved CSPP or approved SPCD can require a significant amount of time. **Not applicable.**

The Owner must coordinate any changes to the CSPP with the FAA.

80-05 Character of workers, methods, and equipment. The Contractor shall, at all times, employ sufficient labor and equipment for prosecuting the work to full completion in the manner and time required by the contract, plans, and specifications.

All workers shall have sufficient skill and experience to perform properly the work assigned to them. Workers engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform the work satisfactorily.

Any person employed by the Contractor or by any subcontractor who violates any operational regulations or operational safety requirements and, in the opinion of the RPR, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the RPR, be removed immediately by the Contractor or subcontractor employing such person, and shall not be employed again in any portion of the work without approval of the RPR.

Should the Contractor fail to remove such person or persons, or fail to furnish suitable and sufficient personnel for the proper execution of the work, the RPR may suspend the work by written notice until compliance with such orders.

All equipment that is proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce a satisfactory quality of work. Equipment used on any portion of the work shall not cause injury to previously completed work, adjacent property, or existing airport facilities due to its use.

When the methods and equipment to be used by the Contractor in accomplishing the work are not prescribed in the contract, the Contractor is free to use any methods or equipment that will accomplish the work in conformity with the requirements of the contract, plans, and specifications.

When the contract specifies the use of certain methods and equipment, such methods and equipment shall be used unless otherwise authorized by the RPR. If the Contractor desires to use a method or type of equipment other than specified in the contract, the Contractor may request authority from the RPR to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed and of the reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor will be fully responsible for producing work in conformity with contract requirements. If, after trial use of the substituted methods or equipment, the RPR determines that the work produced does not meet contract requirements, the Contractor shall discontinue the use of the substitute method or equipment and shall complete the remaining work with the specified methods and equipment. The Contractor shall remove any deficient work and replace it with work of specified quality, or take such other corrective action as the RPR may direct. No change will be made in basis of payment for the contract items involved nor in contract time as a result of authorizing a change in methods or equipment under this paragraph.

80-06 Temporary suspension of the work. The Owner shall have the authority to suspend the work wholly, or in part, for such period or periods the Owner may deem necessary, due to unsuitable weather, or other conditions considered unfavorable for the execution of the work, or for such time necessary due to the failure on the part of the Contractor to carry out orders given or perform any or all provisions of the contract.

In the event that the Contractor is ordered by the Owner, in writing, to suspend work for some unforeseen cause not otherwise provided for in the contract and over which the Contractor has no control, the Contractor may be reimbursed for actual money expended on the work during the period of shutdown. No allowance will be made for anticipated profits. The period of shutdown shall be computed from the effective date of the written order to suspend work to the effective date of the written order to resume the work. Claims for such compensation shall be filed with the RPR within the time period stated in the RPR's order to resume work. The Contractor shall submit with their own claim information substantiating the amount shown on the claim. The RPR will forward the Contractor's claim to the Owner for consideration in accordance with local laws or ordinances. No provision of this article shall be construed as entitling the Contractor to compensation for delays due to inclement weather or for any other delay provided for in the contract, plans, or specifications.

If it becomes necessary to suspend work for an indefinite period, the Contractor shall store all materials in such manner that they will not become an obstruction nor become damaged in any way. The Contractor shall take every precaution to prevent damage or deterioration of the work performed and provide for normal drainage of the work. The Contractor shall erect temporary structures where necessary to provide for traffic on, to, or from the airport.

80-07 Determination and extension of contract time. The [number of calendar days] [the number of working days] [completion date] shall be stated in the proposal and contract and shall be known as the Contract Time.

If the contract time requires extension for reasons beyond the Contractor's control, it shall be adjusted as follows:

80-07.1 [Contract time based on working days. Contract time based on working days shall be calculated weekly by the Resident Project Representative (RPR). The RPR will furnish the Contractor a copy of their weekly statement of the number of working days charged against the contract time during the week and the number of working days currently specified for completion of the contract (the original contract time plus the number of working days, if any, that have been included in approved Change Orders or Supplemental Agreements covering Extra Work).

The weekly statement of contract time charged is based on the following considerations:

- (1) Time will be charged for days on which the Contractor could proceed with scheduled work under construction at the time for at least six (6) hours with the normal work force employed on such items. When normal work force is a double-shift, use 12 hours; and when the normal work force is on a triple-shift, use 18 hours. Conditions beyond the Contractor's control such as strikes, lockouts, unusual delays in transportation, temporary suspension of the scheduled work items under construction or temporary suspension of the entire work which have been ordered by the Owner for reasons not the fault of the Contractor, shall not be charged against the contract time.
- (2) The RPR will not make charges against the contract time prior to the effective date of the notice to proceed.
- (3) The RPR will begin charges against the contract time on the first working day after the effective date of the notice to proceed.
- (4) The RPR will not make charges against the contract time after the date of final acceptance as defined in Section 50, paragraph 50-14, *Final Acceptance*.
- (5) The Contractor will be allowed one (1) week in which to file a written protest setting forth their own objections to the RPR's weekly statement. If no objection is filed within such specified time, the weekly statement shall be considered as acceptable to the Contractor.

The contract time (stated in the proposal) is based on the originally estimated quantities as described in the Section 20, paragraph 20-05, *Interpretation of Estimated Proposal Quantities*. Should the satisfactory completion of the contract require performance of work in greater quantities than those estimated in the proposal, the contract time shall be increased in the same proportion as the cost of the actually completed quantities bears to the cost of the originally estimated quantities in the proposal. Such increase in contract time shall not consider either the cost of work or the extension of contract time that has been covered by change order or supplemental agreement and shall be made at the time of final payment.

For working day contracts, Engineer should include normal monthly weather information for the project location that bidders must take into account when preparing its proposal. As appropriate, the Engineer may include drying days. Unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

[Contract time based on calendar days. Contract Time based on calendar days shall consist of the number of calendar days stated in the contract counting from the effective date of the Notice to Proceed and including all Saturdays, Sundays, holidays, and non-work days. All calendar days elapsing between the effective dates of the Owner's orders to suspend and resume all work, due to causes not the fault of the Contractor, shall be excluded.

At the time of final payment, the contract time shall be increased in the same proportion as the cost of the actually completed quantities bears to the cost of the originally estimated quantities in the proposal. Such increase in the contract time shall not consider either cost of work or the extension of contract time that has been covered by a change order or supplemental agreement. Charges against the contract time will cease as of the date of final acceptance.

[Contract time based on specific completion date. When the contract time is a specified completion date, it shall be the date on which all contract work shall be substantially complete.

If the Contractor finds it impossible for reasons beyond their own control to complete the work within the contract time as specified, or as extended in accordance with the provisions of this paragraph, the Contractor may, at any time prior to the expiration of the contract time as extended, make a written request to the Owner for an extension of time setting forth the reasons which the Contractor believes will justify the granting of their own request. Requests for extension of time, caused by inclement weather, shall be supported with National Weather Bureau data showing the actual amount of inclement weather exceeded what could normally be expected during the contract period. The Contractor's plea that insufficient time was specified is not a valid reason for extension of time. If the supporting documentation justify the work was delayed because of conditions beyond the control and without the fault of the Contractor, the Owner may extend the time for completion by a change order that adjusts the contract time or completion date. The extended time for completion shall then be in full force and effect, the same as though it were the original time for completion.

| *************************** |
|--|
| Select the appropriate method identifying contract time for the contract |
| ************************** |

80-08 Failure to complete on time. For each calendar day or working day, as specified in the contract, that any work remains uncompleted after the contract time (including all extensions and adjustments as provided in paragraph 80-07, *Determination and Extension of Contract Time*) the sum specified in the contract and proposal as liquidated damages (LD) will be deducted from any money due or to become due the Contractor or their own surety. Such deducted sums shall not be deducted as a penalty but shall be considered as liquidation of a reasonable portion of damages including but not limited to additional engineering services that will be incurred by the Owner should the Contractor fail to complete the work in the time provided in their contract.

| Schedule | Liquidated Damages Cost | Allowed Construction Time |
|----------|----------------------------|---------------------------|
| | | |
| | | |

The Engineer should list the liquidated damages cost and allowed construction time in the proposal form or other appropriate contract document to clarify when more than one schedule of work is bid, or in the event all schedules bid cannot be awarded. If LD's are listed elsewhere in the contract, provide the cross-reference link.

The amount of the liquidated damages should not be unreasonable, excessive, or punitive. Liquidated damages must reflect a reasonable estimate of the actual costs which will be incurred by the Owner and users of the airport and must not be punitive. An excessive value for liquidated damages may not be enforceable.

| The maximum construction time allowed for Schedules [] will be the sum of the time allowed |
|---|
| for individual schedules but not more than [] days. Permitting the Contractor to continue and |
| finish the work or any part of it after the time fixed for its completion, or after the date to which |
| the time for completion may have been extended, will in no way operate as a wavier on the part |
| of the Owner of any of its rights under the contract. |

The Engineer shall modify this paragraph for each project.

The contract time is an essential part of each contract for construction on airports and should be considered carefully in the preparation of plans and specifications.

In selecting the method of specifying the contract time (working days, calendar days, or a specified completion date), the primary consideration should be the impact on the operations of the airport should the Contractor be unable to complete the work within the time specified. These considerations should be coordinated with the airport users as indicated in AC 150/5370-12, Quality Management for Federally Funded Airport Construction Projects.

The amount of liquidated damages to be specified should be tailored to each contract and should be based on the cost per day incurred by the Owner should the Contractor overrun the contract time. For large airports (where the impact on airport operations may be great), it is not practical for the Owner to attempt to recover all loss of revenue through liquidated damages. Consequently, the amount of liquidated damages specified must be balanced somewhere between the cost per day incurred for a time overrun and the cost that bidders would have to add to their bids to cover the contingency of a time overrun.

Generally speaking, contract time is based on working days when completion is not critical to operation of the airport. As the impact on airport operations increases, the use of calendar days will give more control. Use of a specified completion date should be used only in cases where the construction operations require long-range rescheduling of airport operations. Also, generally speaking, the amount of liquidated damages would be greater for a calendar day contract than for a working day contract and would be greatest for a specified completion date contract.

- **80-09 Default and termination of contract**. The Contractor shall be considered in default of their contract and such default will be considered as cause for the Owner to terminate the contract for any of the following reasons, if the Contractor:
- **a.** Fails to begin the work under the contract within the time specified in the Notice to Proceed, or
- **b.** Fails to perform the work or fails to provide sufficient workers, equipment and/or materials to assure completion of work in accordance with the terms of the contract, or
- **c.** Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, or
 - **d.** Discontinues the execution of the work, or
- **e.** Fails to resume work which has been discontinued within a reasonable time after notice to do so, or
- **f.** Becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency, or
- **g.** Allows any final judgment to stand against the Contractor unsatisfied for a period of 10 days, or
 - h. Makes an assignment for the benefit of creditors, or
 - i. For any other cause whatsoever, fails to carry on the work in an acceptable manner.

Should the Owner consider the Contractor in default of the contract for any reason above, the Owner shall immediately give written notice to the Contractor and the Contractor's surety as to the reasons for considering the Contractor in default and the Owner's intentions to terminate the contract.

If the Contractor or surety, within a period of 10 days after such notice, does not proceed in accordance therewith, then the Owner will, upon written notification from the RPR of the facts of such delay, neglect, or default and the Contractor's failure to comply with such notice, have full power and authority without violating the contract, to take the execution of the work out of the hands of the Contractor. The Owner may appropriate or use any or all materials and equipment that have been mobilized for use in the work and are acceptable and may enter into an agreement for the completion of said contract according to the terms and provisions thereof, or use such other methods as in the opinion of the RPR will be required for the completion of said contract in an acceptable manner.

All costs and charges incurred by the Owner, together with the cost of completing the work under contract, will be deducted from any monies due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the contract, then the Contractor and the surety shall be liable and shall pay to the Owner the amount of such excess.

80-10 Termination for national emergencies. The Owner shall terminate the contract or portion thereof by written notice when the Contractor is prevented from proceeding with the construction contract as a direct result of an Executive Order of the President with respect to the execution of war or in the interest of national defense.

When the contract, or any portion thereof, is terminated before completion of all items of work in

the contract, payment will be made for the actual number of units or items of work completed at the contract price or as mutually agreed for items of work partially completed or not started. No claims or loss of anticipated profits shall be considered.

Reimbursement for organization of the work, and other overhead expenses, (when not otherwise included in the contract) and moving equipment and materials to and from the job will be considered, the intent being that an equitable settlement will be made with the Contractor. Acceptable materials, obtained or ordered by the Contractor for the work and that are not incorporated in the work shall, at the option of the Contractor, be purchased from the Contractor at actual cost as shown by receipted bills and actual cost records at such points of delivery as may be designated by the RPR.

Termination of the contract or a portion thereof shall neither relieve the Contractor of their responsibilities for the completed work nor shall it relieve their surety of its obligation for and concerning any just claim arising out of the work performed.

80-11 Work area, storage area and sequence of operations. The Contractor shall obtain approval from the RPR prior to beginning any work in all areas of the airport. No operating runway, taxiway, or air operations area (AOA) shall be crossed, entered, or obstructed while it is operational. The Contractor shall plan and coordinate work in accordance with the approved CSPP and SPCD.

END OF SECTION 80

Section 90 Not applicable.

Measurement and Payment

90-01 Measurement of quantities. All work completed under the contract will be measured by the RPR, or their authorized representatives, using [United States Customary Units of Measurement] [the International System of Units].

The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice.

Unless otherwise specified, longitudinal measurements for area computations will be made horizontally, and no deductions will be made for individual fixtures (or leave-outs) having an area of 9 square feet (0.8 square meters) or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the plans or ordered in writing by the RPR.

Unless otherwise specified, all contract items which are measured by the linear foot such as electrical ducts, conduits, pipe culverts, underdrains, and similar items shall be measured parallel to the base or foundation upon which such items are placed.

The term "lump sum" when used as an item of payment will mean complete payment for the work described in the contract. When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.

When requested by the Contractor and approved by the RPR in writing, material specified to be measured by the cubic yard (cubic meter) may be weighed, and such weights will be converted to cubic yards (cubic meters) for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the RPR and shall be agreed to by the Contractor before such method of measurement of pay quantities is used.

Measurement and Payment Terms

| Term | Description |
|--|--|
| Excavation and Embankment Volume | In computing volumes of excavation, the average end area method will be used unless otherwise specified. |
| Measurement and Proportion by Weight | The term "ton" will mean the short ton consisting of 2,000 pounds (907 km) avoirdupois. All materials that are measured or proportioned by weights shall be weighed on accurate, independently certified scales by competent, qualified personnel at locations designated by the RPR. If material is shipped by rail, the car weight may be accepted provided that only the actual weight of material is paid for. However, car weights will not be acceptable for material to be passed through mixing plants. Trucks used to haul material being paid for by weight shall be weighed empty |

| Term | Description |
|------------------|---|
| | daily at such times as the RPR directs, and each truck shall bear a plainly |
| | legible identification mark. |
| Measurement by | Materials to be measured by volume in the hauling vehicle shall be |
| Volume | hauled in approved vehicles and measured therein at the point of |
| | delivery. Vehicles for this purpose may be of any size or type acceptable |
| | for the materials hauled, provided that the body is of such shape that the |
| | actual contents may be readily and accurately determined. All vehicles |
| | shall be loaded to at least their water level capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery. |
| Asphalt Material | Asphalt materials will be measured by the gallon (liter) or ton (kg). When |
| Aspiral Material | measured by volume, such volumes will be measured at 60°F (16°C) or |
| | will be corrected to the volume at 60°F (16°C) using ASTM D1250 for |
| | asphalts. Net certified scale weights or weights based on certified |
| | volumes in the case of rail shipments will be used as a basis of |
| | measurement, subject to correction when asphalt material has been lost |
| | from the car or the distributor, wasted, or otherwise not incorporated in |
| | the work. When asphalt materials are shipped by truck or transport, net |
| | certified weights by volume, subject to correction for loss or foaming, will |
| | be used for computing quantities. |
| Cement | Cement will be measured by the ton (kg) or hundredweight (km). |
| Structure | Structures will be measured according to neat lines shown on the plans or as altered to fit field conditions. |
| Timber | Timber will be measured by the thousand feet board measure (MFBM) |
| | actually incorporated in the structure. Measurement will be based on |
| | nominal widths and thicknesses and the extreme length of each piece. |
| Plates and | The thickness of plates and galvanized sheet used in the manufacture of |
| Sheets | corrugated metal pipe, metal plate pipe culverts and arches, and metal |
| | cribbing will be specified and measured in decimal fraction of inch. |
| Miscellaneous | When standard manufactured items are specified such as fence, wire, |
| Items | plates, rolled shapes, pipe conduit, etc., and these items are identified by |
| | gauge, unit weight, section dimensions, etc., such identification will be |
| | considered to be nominal weights or dimensions. Unless more stringently |
| | controlled by tolerances in cited specifications, manufacturing tolerances |
| Scales | established by the industries involved will be accepted. Scales must be tested for accuracy and serviced before use. Scales for |
| Ocales | weighing materials which are required to be proportioned or measured |
| | and paid for by weight shall be furnished, erected, and maintained by the |
| | Contractor, or be certified permanently installed commercial scales. |
| | Platform scales shall be installed and maintained with the platform level |
| | and rigid bulkheads at each end. |
| | Scales shall be accurate within 0.5% of the correct weight throughout the |
| | range of use. The Contractor shall have the scales checked under the |
| | observation of the RPR before beginning work and at such other times as |
| | requested. The intervals shall be uniform in spacing throughout the |
| | graduated or marked length of the beam or dial and shall not exceed |
| | 0.1% of the nominal rated capacity of the scale, but not less than one |
| | pound (454 grams). The use of spring balances will not be permitted. |

| Term | Description | |
|---------------------|---|--|
| | In the event inspection reveals the scales have been "overweighing" (indicating more than correct weight) they will be immediately adjusted. All materials received subsequent to the last previous correct weighting-accuracy test will be reduced by the percentage of error in excess of 0.5%. In the event inspection reveals the scales have been under-weighing (indicating less than correct weight), they shall be immediately adjusted. No additional payment to the Contractor will be allowed for materials previously weighed and recorded. Beams, dials, platforms, and other scale equipment shall be so arranged that the operator and the RPR can safely and conveniently view them. Scale installations shall have available ten standard 50-pound (2.3 km) weights for testing the weighing equipment or suitable weights and devices for other approved equipment. All costs in connection with furnishing, installing, certifying, testing, and maintaining scales; for furnishing check weights and scale house; and for all other items specified in this subsection, for the weighing of materials for proportioning or payment, shall be included in the unit contract prices for the various items of the project. | |
| Rental Equipment | Rental of equipment will be measured by time in hours of actual working time and necessary traveling time of the equipment within the limits of the work. Special equipment ordered in connection with extra work will be measured as agreed in the change order or supplemental agreement authorizing such work as provided in paragraph 90-05 <i>Payment for Extra Work</i> . | |
| Pay Quantities | When the estimated quantities for a specific portion of the work are designated as the pay quantities in the contract, they shall be the final quantities for which payment for such specific portion of the work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the RPR. If revised dimensions result in an increase or decrease in the quantities of such work, the final quantities for payment will be revised in the amount represented by the authorized changes in the dimensions. | |

90-02 Scope of payment. The Contractor shall receive and accept compensation provided for in the contract as full payment for furnishing all materials, for performing all work under the contract in a complete and acceptable manner, and for all risk, loss, damage, or expense of whatever character arising out of the nature of the work or the execution thereof, subject to the provisions of Section 70, paragraph 70-18, *No Waiver of Legal Rights*.

When the "basis of payment" subsection of a technical specification requires that the contract price (price bid) include compensation for certain work or material essential to the item, this same work or material will not also be measured for payment under any other contract item which may appear elsewhere in the contract, plans, or specifications.

90-03 Compensation for altered quantities. When the accepted quantities of work vary from the quantities in the proposal, the Contractor shall accept as payment in full, so far as contract

items are concerned, payment at the original contract price for the accepted quantities of work actually completed and accepted. No allowance, except as provided for in Section 40, paragraph 40-02, *Alteration of Work and Quantities*, will be made for any increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor which results directly from such alterations or indirectly from their own unbalanced allocation of overhead and profit among the contract items, or from any other cause.

90-04 Payment for omitted items. As specified in Section 40, paragraph 40-03, *Omitted Items*, the RPR shall have the right to omit from the work (order nonperformance) any contract item, except major contract items, in the best interest of the Owner.

Should the RPR omit or order nonperformance of a contract item or portion of such item from the work, the Contractor shall accept payment in full at the contract prices for any work actually completed and acceptable prior to the RPR's order to omit or non-perform such contract item. Acceptable materials ordered by the Contractor or delivered on the work prior to the date of the RPR's order will be paid for at the actual cost to the Contractor and shall thereupon become the property of the Owner.

In addition to the reimbursement hereinbefore provided, the Contractor shall be reimbursed for all actual costs incurred for the purpose of performing the omitted contract item prior to the date of the RPR's order. Such additional costs incurred by the Contractor must be directly related to the deleted contract item and shall be supported by certified statements by the Contractor as to the nature the amount of such costs.

90-05 Payment for extra work. Extra work, performed in accordance with Section 40, paragraph 40-04, *Extra Work*, will be paid for at the contract prices or agreed prices specified in the change order or supplemental agreement authorizing the extra work.

90-06 Partial payments. Partial payments will be made to the Contractor at least once each month as the work progresses. Said payments will be based upon estimates, prepared by the RPR, of the value of the work performed and materials complete and in place, in accordance with the contract, plans, and specifications. Such partial payments may also include the delivered actual cost of those materials stockpiled and stored in accordance with paragraph 90-07, *Payment for Materials on Hand*. No partial payment will be made when the amount due to the Contractor since the last estimate amounts to less than five hundred dollars.

Insert retainage option here.

The Owner has three options in determining whether retainage will be withheld on the project. The Owner must insert the clauses for the option that applies and delete the clauses for the other two options. Proper use of this language assists with meeting the requirements of 49 CFR § 26.29.

Option 1: The Owner may decline to hold retainage from prime Contractors and prohibit prime Contractors from holding retainage from subcontractors. Insert this clause if Option 1 is selected:

a. Retainage will not be withheld on this project. No retainage will be withheld by the Owner from progress payments due the prime Contractor. Retainage by the

prime or subcontractors is prohibited, and no retainage will be held by the prime from progress due subcontractors.

- b. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts no later than 30 days after the Contractor has received a partial payment. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented as required by the Owner. When the Owner has made an incremental acceptance of a portion of a prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.
- c. When at least 95% of the project work has been completed to the satisfaction of the RPR, the RPR shall, at the Owner's discretion and with the consent of the surety, prepare estimates of both the contract value and the cost of the remaining work to be done.
- Option 2: The Owner may decline to hold retainage from prime Contractors and require a contract clause obligating prime Contractors to make prompt and full payment of any retainage kept by prime Contractor to the subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Insert this clause if Option 2 is selected:
- a. No retainage will be held by the Owner from progress payments due the prime.
- b. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts no later than 30 days after the Contractor has received a partial payment. Contractor must provide the Owner evidence of prompt and full payment of retainage held by the prime Contractor to the subcontractor within 30 days after the subcontractor's work is satisfactorily completed. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented as required by the Owner. When the Owner has made an incremental acceptance of a portion of a prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.
- c. When at least 95% of the project work has been completed to the satisfaction of the RPR, the RPR shall, at the Owner's discretion and with the consent of the surety, prepare estimates of both the contract value and the cost of the remaining work to be done.
- Option 3: The Owner may hold retainage from prime Contractors and provide for prompt and regular incremental acceptances of portions of the prime contract, pay retainage to prime Contractors based on these acceptances, and require a contract clause obligating the prime Contractor to pay all retainage owed to the subcontractor for satisfactory completion of the accepted work within 30 days after the Owner's payment to the prime Contractor. If Option 3 is selected, the percent withheld may range from 0% to 10% but in no case may it exceed 10%. When establishing a suitable retainage value that protects the Owner's interests, give consideration that the performance and payment bonds also provide similar protection of Owner interests. Owner may elect to incrementally release retainage if owner is satisfied its interest with completion of the project are protected in an adequate manner. If Option 3 is selected, insert the following clause and specify a suitable value where indicated:

- a. From the total of the amount determined to be payable on a partial payment, [insert amount of retainage, not to exceed 10%] percent of such total amount will be deducted and retained by the Owner for protection of the Owner's interests. Unless otherwise instructed by the Owner, the amount retained by the Owner will be in effect until the final payment is made except as follows:
- (1) Contractor may request release of retainage on work that has been partially accepted by the Owner in accordance with Section 50-03. Contractor must provide a certified invoice to the RPR that supports the value of retainage held by the Owner for partially accepted work.
- (2) In lieu of retainage, the Contractor may exercise at its option the establishment of an escrow account per paragraph 90-08.
- b. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts no later than 30 days after the Contractor has received a partial payment. Contractor must provide the Owner evidence of prompt and full payment of retainage held by the prime Contractor to the subcontractor within 30 days after the subcontractor's work is satisfactorily completed. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented as required by the Owner. When the Owner has made an incremental acceptance of a portion of a prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.
- c. When at least 95% of the work has been completed to the satisfaction of the RPR, the RPR shall, at the Owner's discretion and with the consent of the surety, prepare estimates of both the contract value and the cost of the remaining work to be done. The Owner may retain an amount not less than twice the contract value or estimated cost, whichever is greater, of the work remaining to be done. The remainder, less all previous payments and deductions, will then be certified for payment to the Contractor.

It is understood and agreed that the Contractor shall not be entitled to demand or receive partial payment based on quantities of work in excess of those provided in the proposal or covered by approved change orders or supplemental agreements, except when such excess quantities have been determined by the RPR to be a part of the final quantity for the item of work in question.

No partial payment shall bind the Owner to the acceptance of any materials or work in place as to quality or quantity. All partial payments are subject to correction at the time of final payment as provided in paragraph 90-09, *Acceptance and Final Payment*.

The Contractor shall deliver to the Owner a complete release of all claims for labor and material arising out of this contract before the final payment is made. If any subcontractor or supplier fails to furnish such a release in full, the Contractor may furnish a bond or other collateral satisfactory to the Owner to indemnify the Owner against any potential lien or other such claim. The bond or collateral shall include all costs, expenses, and attorney fees the Owner may be compelled to pay in discharging any such lien or claim.

In some areas, release of liens prior to paying the full amount to the prime Contractor may void the contract. In those areas, revise the previous paragraph as required to meet all state and local regulations.

90-07 Payment for materials on hand. Partial payments may be made to the extent of the delivered cost of materials to be incorporated in the work, provided that such materials meet the requirements of the contract, plans, and specifications and are delivered to acceptable sites on the airport property or at other sites in the vicinity that are acceptable to the Owner. Such delivered costs of stored or stockpiled materials may be included in the next partial payment after the following conditions are met:

- **a.** The material has been stored or stockpiled in a manner acceptable to the RPR at or on an approved site.
- **b.** The Contractor has furnished the RPR with acceptable evidence of the quantity and quality of such stored or stockpiled materials.
- **c.** The Contractor has furnished the RPR with satisfactory evidence that the material and transportation costs have been paid.
- **d.** The Contractor has furnished the Owner legal title (free of liens or encumbrances of any kind) to the material stored or stockpiled.
- **e.** The Contractor has furnished the Owner evidence that the material stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the work.

It is understood and agreed that the transfer of title and the Owner's payment for such stored or stockpiled materials shall in no way relieve the Contractor of their responsibility for furnishing and placing such materials in accordance with the requirements of the contract, plans, and specifications.

In no case will the amount of partial payments for materials on hand exceed the contract price for such materials or the contract price for the contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant materials. The Contractor shall bear all costs associated with the partial payment of stored or stockpiled materials in accordance with the provisions of this paragraph.

- **90-08 Payment of withheld funds**. At the Contractor's option, if an Owner withholds retainage in accordance with the methods described in paragraph 90-06 *Partial Payments*, the Contractor may request that the Owner deposit the retainage into an escrow account. The Owner's deposit of retainage into an escrow account is subject to the following conditions:
- **a.** The Contractor shall bear all expenses of establishing and maintaining an escrow account and escrow agreement acceptable to the Owner.

- **b.** The Contractor shall deposit to and maintain in such escrow only those securities or bank certificates of deposit as are acceptable to the Owner and having a value not less than the retainage that would otherwise be withheld from partial payment.
 - c. The Contractor shall enter into an escrow agreement satisfactory to the Owner.
 - d. The Contractor shall obtain the written consent of the surety to such agreement.

90-09 Acceptance and final payment. When the contract work has been accepted in accordance with the requirements of Section 50, paragraph 50-15, *Final Acceptance*, the RPR will prepare the final estimate of the items of work actually performed. The Contractor shall approve the RPR's final estimate or advise the RPR of the Contractor's objections to the final estimate which are based on disputes in measurements or computations of the final quantities to be paid under the contract as amended by change order or supplemental agreement. The Contractor and the RPR shall resolve all disputes (if any) in the measurement and computation of final quantities to be paid within 30 calendar days of the Contractor's receipt of the RPR's final estimate. If, after such 30-day period, a dispute still exists, the Contractor may approve the RPR's estimate under protest of the quantities in dispute, and such disputed quantities shall be considered by the Owner as a claim in accordance with Section 50, paragraph 50-16, *Claims for Adjustment and Disputes*.

After the Contractor has approved, or approved under protest, the RPR's final estimate, and after the RPR's receipt of the project closeout documentation required in paragraph 90-11, Contractor Final Project Documentation, final payment will be processed based on the entire sum, or the undisputed sum in case of approval under protest, determined to be due the Contractor less all previous payments and all amounts to be deducted under the provisions of the contract. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

If the Contractor has filed a claim for additional compensation under the provisions of Section 50, paragraph 50-16, *Claims for Adjustments and Disputes*, or under the provisions of this paragraph, such claims will be considered by the Owner in accordance with local laws or ordinances. Upon final adjudication of such claims, any additional payment determined to be due the Contractor will be paid pursuant to a supplemental final estimate.

90-10 Construction warranty.

- **a.** In addition to any other warranties in this contract, the Contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, workmanship, or design furnished, or performed by the Contractor or any subcontractor or supplier at any tier.
- **b.** This warranty shall continue for a period of one year from the date of final acceptance of the work, except as noted. If the Owner takes possession of any part of the work before final acceptance, this warranty shall continue for a period of one year from the date the Owner takes possession. [However, this will not relieve the Contractor from corrective items required by the final acceptance of the project work. Light Emitting Diode emitting diode (LED) light fixtures with the exception of obstruction lighting, must be warranted by the manufacturer for a minimum of four (4) years after date of installation inclusive of all electronics. 1 []

Delete LED item if not included in the project.

Include any project specific materials that have a greater than one-year warranty period.

- **c.** The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Owner real or personal property, when that damage is the result of the Contractor's failure to conform to contract requirements; or any defect of equipment, material, workmanship, or design furnished by the Contractor.
- **d.** The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for one year from the date of repair or replacement.
- **e.** The Owner will notify the Contractor, in writing, within [seven (7)] days after the discovery of any failure, defect, or damage.
- **f.** If the Contractor fails to remedy any failure, defect, or damage within [14] days after receipt of notice, the Owner shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- **g.** With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall: (1) Obtain all warranties that would be given in normal commercial practice; (2) Require all warranties to be executed, in writing, for the benefit of the Owner, as directed by the Owner, and (3) Enforce all warranties for the benefit of the Owner.
- **h.** This warranty shall not limit the Owner's rights with respect to latent defects, gross mistakes, or fraud.

Notification times in Items e and f may be changed to meet specific project requirements.

Airport Improvement Program (AIP) will not typically participate in extended warranties beyond one (1) year.

Note that Engineering Brief (EB) #67, Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures, requires that all light-emitting diode (LED) light fixtures with the exception of obstruction lighting, (advisory circular (AC) 150/5345-43) must be warranted by the manufacturer for a minimum of four (4) years after date of installation inclusive of all electronics.

It is recommended the Owner and Engineer perform a warranty inspection with the Contractor approximately three (3) months before the end of the one year warranty period.

- **90-11 Contractor Final Project Documentation.** Approval of final payment to the Contractor is contingent upon completion and submittal of the items listed below. The final payment will not be approved until the RPR approves the Contractor's final submittal. The Contractor shall:
- **a.** Provide two (2) copies of all manufacturers warranties specified for materials, equipment, and installations.
- **b.** Provide weekly payroll records (not previously received) from the general Contractor and all subcontractors.
 - c. Complete final cleanup in accordance with Section 40, paragraph 40-08, *Final Cleanup*.
 - d. Complete all punch list items identified during the Final Inspection.
 - e. Provide complete release of all claims for labor and material arising out of the Contract.
- **f.** Provide a certified statement signed by the subcontractors, indicating actual amounts paid to the Disadvantaged Business Enterprise (DBE) subcontractors and/or suppliers associated with the project.
 - g. When applicable per state requirements, return copies of sales tax completion forms.
 - **h.** Manufacturer's certifications for all items incorporated in the work.
 - i. All required record drawings, as-built drawings or as-constructed drawings.
 - j. Project Operation and Maintenance (O&M) Manual(s).
 - k. Security for Construction Warranty.

| Equipment com | missioning documentation submitted, if required. | |
|-----------------------------------|--|-----|
| | | |
| | | |
| ******* | ********************** | *** |

Additional items may be added as necessary to address State requirements and specific project requirements. The intent of this section is to withhold final project payment until all necessary paperwork, project work, and cleanup of work/staging areas have been completed.

END OF SECTION 90

END OF DOCUMENT

ARTICLE 3 - THE CONTRACTOR

3.5

SUPPLEMENTARY CONDITIONS

Document 00800

SUPPLEMENTARY CONDITIONS

| Project Manager: Roger Herbert Project No.: 957 |
|--|
| The following Paragraphs amend and supplement the March 7, 2022 edition of the General Conditions. Unaltered portions of General Conditions remain in effect. |
| ARTICLE 1 - GENERAL PROVISIONS: |
| 1.1 DEFINITIONS: Insert the following Paragraphs 1.1.9.1, 1.1.23, and 1.1.25, and reorder the remaining definitions accordingly. Please insert the amended definition of "Specifications". |
| 1.1.9.1 The firm of has been employed by the City as Construction Manager for the Work. |
| 1.1.23 Good Faith Efforts: Steps taken to achieve an MBE, WBE, SBE, or PDBE good or other requirements which, by their scope, intensity, and usefulness, demonstrate the bidder's responsiveness to fulfill the business opportunity objective, as well as the Contractor's responsibility to put forth measures to meet or exceed the MBE, WBE, SBE, or PDBE good (Contract Goal). These steps apply from before a contract's award, through its duration, and after its conclusion, in the event the Contractor has been unsuccessful in meeting the Contract Goal. These efforts are required whether a Goal Oriented Contract or a Regulated Contract as defined in the Office of Business Opportunity's Policy & Procedures Manual, available a http://www.houstontx.gov/obo . |
| 1.1.25 Incidental Work: Work described as incidental shall be work defined in Document 01110 - Summary of Work, that do not have a direct pay item listed in the Document 00410B - Bid Form Part B, or less than 1% of the Contract Price and not capable of being measured. If Work is identified as Incidental Work and also covered by Bid Form Part B quantities, then the unit price item quantities in the Bid Form Part B shall govern. |
| 1.1.45 Specifications: Divisions 01 through 16 of the documents that are incorporated into the Agreement, consisting of written General Requirements and requirements for Products, standards, and workmanship for the Work, and performance of related services. All specifications are amended to include, under the Measurement and Payment Section, the following sentence: "Work described as Incidental Work shall not be paid as a separate unit price item." |

LABOR: Insert the following Paragraphs, 3.5.3.1.1, 3.5.3.1.2, and 3.5.3.1.3.

SUPPLEMENTARY CONDITIONS

- 3.5.3.1.1 If the Original Contract Price is greater than One Million Dollars, Contractor shall make Good Faith Efforts to comply with the City ordinances regarding Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Persons with Disabilities Business Enterprises (PDBE) and Small Business Enterprise (SBE) participation goals which are as follows:
 - 3.5.3.1.1.1 the MBE goal is <u>N/A</u>
 - 3.5.3.1.1.2 the WBE goal is N/A
 - 3.5.3.1.1.3 the PDBE goal is **6%**
 - 3.5.3.1.1.4 The bidder may substitute SBE participation of no more than <u>four</u> percent of the MBE goal, the WBE goal, or portions of the MBE Goal and WBE Goal.
 - 3.5.3.1.1.5 The bidder may not use Native-American-owned firms that are certified as MBEs to meet MBE contract goals. Native-Americans firms can only be used as SBEs in fulfillment of the above stated goals.
 - 3.5.3.1.1.6 The bidder may not use MWSBE Suppliers to account for more than 50% of the MWSBE participation plan.
- 3.5.3.1.2 The MBE, WBE, PDBE, and SBE goals are specific to this Agreement. The Contractor shall make reasonable efforts to achieve these goals.
- 3.5.3.1.3 Failure by Contractor to comply with the goals for MBE, WBE, SBE, or PDBE is a material breach of the Agreement, which may result in termination of the Agreement, or such other remedy permitted as the City deems appropriate.

ARTICLE 8 - TIME

- 8.1 PROGRESS AND COMPLETION: Add the following Paragraph 8.1.6.1.
- 8.1.6.1 Contractor shall credit the City by Change Order for inspection services for overtime work or work performed on Sundays or Legal Holidays. The amount Contractor credits the City will be \$50.00 per hour per inspector for inspection services.

ARTICLE 9 - PAYMENTS AND COMPLETION

- 9.12 LIQUIDATED DAMAGES: Insert the following Paragraph 9.12.1.1.
- 9.12.1.1 The amount of liquidated damages payable by Contractor or Surety for each and every day of delay beyond Contract Time, are Eight Hundred Dollars [\$800.00] per day.

ARTICLE 11 - INSURANCE AND BONDS

SUPPLEMENTARY CONDITIONS

TABLE 1 REQUIRED COVERAGES

| REQUI | RED COVERAGES |
|--|--|
| (Coverage) | (Limit of Liability) |
| .1 Workers' Compensation | Statutory Limits for Workers' Compensation |
| .2 Employer's Liability | Bodily Injury by Accident \$1,000,000 (each accident) Bodily Injury by Disease \$1,000,000 (policy limit) Bodily Injury by Disease \$1,000,000 (each employee) |
| .3 Commercial General Liability: Including Contractor's Protective, Broad Form Property Damage, Contractual Liability, Explosion, Underground and Collapse, Bodily Injury, Personal Injury, Products, and Completed Operations (for a period of one year following completion of the Work) "and property damage coverage for aircraft located on airport property." | Combined single limit of \$1,000,000 (each occurrence), subject to general aggregate of \$2,000,000; Products and Completed Operations \$1,000,000 aggregate. (Note to PDC PM: Add this statement when project involves work on aprons or in vicinity of aircraft.) |
| .4 Owner's and Contractor's Protective Liability | \$1,000,000 combined single limit each Occurrence/aggregate |
| .5 Installation Floater (Unless alternative coverage by City Attorney) | Value of stored equipment or material, listed on Certificates of Payments, but not yet incorporated into the Work |
| .6 Automobile Liability Insurance: (For automobiles furnished by Contractor in course of his performance under the Contract, including Owned, Non-owned, and Hired Auto coverage) | \$1,000,000 combined single limit each occurrence for (1) Any Auto or (2) All Owned, Hired, and Non-Owned Autos. *increase to \$10,000,000 for runway, taxiway, ramp, apron or in vicinity of aircraft construction projects. |
| .7 Excess Coverage (This coverage is not required if 8(c) below is required) | \$1,000,000 each occurrence/combined aggregate in excess of limits specified for Employer's Liability, Commercial General Liability, and Automobile Liability |
| .8 Optional Coverages | (Required when checked) |
| (a)Contractor's Pollution Liability including pollution coverage for Contractual Liability, Clean-up costs, Abatement, Transport and Non-owned disposal sites. Including Bodily Injury Liability, Property Damage Liability and environmental damage arising from pollution conditions caused in performance of operations. Include Asbestos and Lead if part of operations. | \$1,000,000 each occurrence (Note to PDC-PM: Add this coverage if there is pollution work on this project) |
| (MCS-90 endorsement: To Auto Policy and removal of Pollution Exclusion) | \$1,000,000 CSL |

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| | | SUPPLEMENTARY CONDITIONS | |
|----------------------------------|---|--|--|
| | (b)Property & Casualty Coverage: | 100% Contract price, including all change orders | |
| | | (Note to PDC-PM: Add this coverage if construction | |
| | Form for directing physical change to | involves a building) | |
| | building or plant construction on Work | | |
| | site and/or all land improvements | | |
| | including all work. [Including but not | | |
| | limited to earthquake, flood, boiler and | | |
| | machineryincluding testing, damage | | |
| | to existing or adjoining property, time | | |
| | element coverage, collapse, soft costs | | |
| | (management, architecture, financial | | |
| | costs, pre-opening costs, etc.), transit | | |
| | coverage, off-site storage]. | | |
| | (c)Increased Excess Coverage | \$each occurrence aggregate in excess of | |
| | (C)IIICI eased Excess Coverage | limits specified for Employer's Liability, Commercial | |
| | | General Liability, and Automotive Liability | |
| | | (Note to PDC PM: Add \$10,000,000 if project includes | |
| | | work on aprons or in vicinity of aircraft) | |
| | | , , , , , , , , , , , , , , , , , , , | |
| | *Defense costs are excluded from face amount | of policy. Aggregate Limits are per 12-month policy period | |
| unless otherwise indicated. | | | |
| | | | |
| | *Use Builder's Risk insurance for projects that i | nclude lift stations, plant or facility work. Include Building | |
| Wage rates in the project manual | | | |
| | *Flood Hazard Insurance: Contractor shall app | ly for flood insurance on all insurable structures built under | |
| | the Contract. A copy of the completed applicat | ion must be provided to City Engineer before commencing | |
| | construction of the Work. Contractor shall obtain flood hazard insurance as soon as possible and submit a | | |
| | copy of the policy to City Engineer. | | |
| | Use Flood Hazard Insurance only for projects that include structures. Do not include Flood Insurance for | | |
| | line projects, projects outside of the 100-year floodplain, or projects with structures less than \$10,000 in | | |
| | value. | | |
| | | | |

- INSURANCE TO BE PROVIDED BY CONTRACTOR: Insert the following 11.2 Paragraph 11.2.1.2., and Table 2, "Additional Required Coverage".
- Contractor shall purchase for the duration of the Contract the insurance set out in 11.2.1.2 Table 2 in addition to the minimum insurance coverage set out in section 11.2.1.

TABLE 2 ADDITIONAL REQUIRED COVERAGE DEFENSE COSTS EXCLUDED FROM FACE AMOUNT OF POLICY.

| Use Builder's Risk insurance only for projects that include lift stations, plant or facility work. Include Building Wage rates in the project manual and have Assistant Director initial the following block to signify approval {}. | | | | | | |
|--|----------------------|--|--|--|--|--|
| (Coverage) | (Limit of Liability) | | | | | |
| Property and Casualty Coverage: "All Causes of Loss" Builder's Risk Form for directing physical change to building or pla construction on the Work site and/or all lar | | | | | | |

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SUPPLEMENTARY CONDITIONS

improvements including all work. (Including but not limited to earthquake, flood, boiler, and machinery including testing, damage to existing or adjoining property, time element coverage, collapse, soft costs (management, architecture, financial costs, preopening costs, etc.), transit coverage, off-site storage).

Flood Hazard Insurance: Contractor shall apply for flood insurance on all insurable structures built under the Contract. A copy of the completed application must be provided to City Engineer before commencing construction of the Work. Contractor shall obtain flood hazard insurance as soon as possible and submit a copy of the policy to City Engineer.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

END OF DOCUMENT

DOCUMENT 00801

SUPPLEMENTARY CONDITIONS FOR PROJECT FUNDED BY AIP GRANT

The following supplements modify Document 00700 - General Conditions, January 1, 2020 Edition, and Document 00800- Supplementary Conditions. Where a portion of the General and Supplementary Conditions is modified or deleted by these Supplementary Conditions for Project Funded by AIP Grant, the unaltered portions of the General and Supplementary Conditions shall remain in effect. In case of conflicts with corresponding provisions of other Contract Documents, the provisions of this Document 00801 govern.

GENERAL:

 Requirements for acceptance testing specified in Sections in Divisions 2 through 16 shall be accomplished following Section 01455 - City's Acceptance Testing and Section 01457 -Estimating Percentage of Product Within Specification Limits.

ARTICLE 2 - OWNER:

Add the following:

"2.6 Federal Aid Participation

- 2.6.1 For Airport Improvement Program (AIP) contracts, the United States Government has agreed to reimburse City for some portion of the contract costs. Such reimbursement is made from time to time upon City's request to FAA. In consideration of the United Sates Government's (FAA's) agreement with City, City has included provisions in this contract pursuant to the requirements of the Airport Improvement Act of 1982, as amended by the Airport and Airway Safety and Capacity Expansion Act of 1987, and the Rules and Regulations of FAA that pertain to the Work.
- 2.6.2 As required by the Act, the Work is subject to inspection and approval of duly authorized representatives of the Administrator, FAA, and is further subject to those provisions of the rules and regulations that are cited in the Contract Documents.
- 2.6.3 No requirement of the Act, the rules and regulations implementing the Act, or this contract shall be construed as making the Federal Government a party to the contract nor will any such requirement interfere, in any way, with the rights of City or Contractor to the contract."

ARTICLE 3 - CONTRACTOR

Delete article 3.5.3 and replace with the following:

- "3.5.3 City has established a Disadvantaged Business Enterprise (DBE) program in accordance with regulations of the U.S. Department of Transportation (DOT), 49 CFR Part 26 and City Ordinance No. 99-893. City has received Federal financial assistance from the DOT and as a condition of receiving this assistance, City has signed an assurance that it will comply with 49 CFR Part 26. It is the policy of the DOT and City to ensure that DBEs as defined in Part 26, have an equal opportunity to receive and participate in DOT-assisted contracts. It is also their policy:
- a. To ensure nondiscrimination in the award and administration of DOT-assisted contracts;
 - To create a level playing field on which DBEs can compete fairly for DOTassisted contracts.

- c. To ensure that the DBE Program is narrowly tailored in accordance with applicable law;
- d. To ensure that only firms that fully meet 49 CFR Part 26 eligibility standards are permitted to participate as DBEs;
- e. To help remove barriers to the participation of DBEs in DOT-assisted contracts;
- f. To assist the development of firms that can compete successfully in the market place outside the DBE Program; and
- g. To provide appropriate flexibility to recipients of federal financial assistance in establishing and providing opportunities for DBEs.

The Director of the City's Office of Business Opportunity is the DBE Liaison Officer. In that capacity, s/he is responsible for implementing all aspects of the DBE program. Implementation of the DBE program is accorded the same priority as compliance with all other legal obligations incurred by City in its financial assistance agreements with the DOT.

DBE Obligation. City will never exclude any person from participation in, deny any person the benefits of, or otherwise discriminate against anyone in connection with the award and performance of any contract covered by 49 CFR Part 26 on the basis of race, color, sex, or national origin.

In administering its DBE program, City will not, directly or through contractual or other arrangements, use criteria or methods of administration that have the effect of defeating or substantially impairing accomplishment of the objectives of the DBE program with respect to individuals of a particular race, color, sex, or national origin.

Contract Goal. All bidders and proposers shall make Good Faith Efforts, as defined in 49 CFR Part 26, to subcontract 6.25% of the dollar value of the prime contract to small business concerns at least 51% owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51% of the stock is owned by one or more such individuals, and whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it. "Socially and economically disadvantaged individual" means a U.S. Citizen (or a lawfully admitted permanent resident of the United States) who is:

a. Any individual who the City finds to be socially and economically disadvantaged on a case-by-case basis.

- b. Any individual in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged:
 - (1) "Black Americans,"
 - (2) "Hispanic Americans,"
 - (3) "Native Americans,"
 - (4) "Asian-Pacific Americans,"
 - (5) "Subcontinent Asian-Americans,"
 - (6) "Women," or
 - (7) Any additional groups whose members are designated as socially and economically disadvantaged by the SBA, at such time as the SBA designation becomes effective.

The low Bidder will be required to submit information concerning the DBEs including the DBE prime contractor, if any, that will participate in this Contract. The information shall include the name and address of each DBE, a description of the work to be performed by each named firm, the dollar value of the Contract or Subcontract, Bidder's written commitment to use such DBEs; and written confirmation from the DBEs that they are participants in the Contract. If the Bidder fails to achieve the Contract goal stated therein, it will be required to provide documentation demonstrating that it made Good Faith Efforts. A Bid that fails to meet these requirements will be considered non-responsive.

DBE prime contractors must meet goals and make good faith efforts on the same basis as other contractors, but DBEs may count toward goals the work they commit to perform with their own work force, as well as work performed by DBE subcontractors and DBE suppliers.

The successful Bidder shall establish and maintain records and submit regular reports, as required by the Director of AAD, which shall identify and assess progress in achieving DBE subcontract goals and other DBE affirmative action efforts.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PN 957

SUPPLEMENTARY CONDITIONS FOR PROJECT FUNDED BY AIP GRANT

Compliance. All Bidders, potential Contractors and Subcontractors for this DOT-assisted Contract are hereby notified that failure to carry out the DOT policy and the DBE obligation, as set forth herein, shall constitute a breach of contract which may result in termination of the Contract or such other remedy as deemed appropriate by City.

Contract Assurance. A Contractor or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted Contracts. Failure by the Contractor to carry out these requirements is a material breach of the Contract, which may result in termination of the Contract or such other remedy, as the City deems appropriate.

Prompt Payment. Contractor agrees to pay each Subcontractor for satisfactory performance of the Contract no later than 30 days from receipt of each payment the prime contractor receives from City. The Contractor agrees further to return retainage payments to each Subcontractor within 30 days after the Subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the Director on behalf of City. This clause applies to both DBE and non-DBE subcontractors

Subcontract Clauses. Bidder and Contractors hereby assure that they will include the above clauses in all subcontracts, which offer further subcontracting opportunities. Agreements between Bidder and a DBE in which the DBE promises not to provide subcontracting quotations to other bidders are prohibited.

Termination of a DBE Subcontractor. Contractor may not terminate a listed DBE subcontractor without the City's prior written consent.

The City's consent will only be given if the Contractor provides satisfactory evidence (1) of good cause for termination, as "good cause" is defined in 49 CFR Part 26, or other documented compelling reason that necessitates termination; and (2) that Contractor provided the DBE subcontractor notice of termination and an opportunity to respond. The City must be copied on the notice of termination and the DBE subcontractor's responses if any.

Contract Assurance (§ 26.13) -

The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of Department of Transportation-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Owner deems appropriate, which may include, but is not limited to:

- 1) Withholding monthly progress payments;
- Assessing sanctions;
- 3) Liquidated damages; and/or
- 4) Disqualifying the Contractor from future bidding as non-responsible.

Prompt Payment (§26.29) – The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than 10 days from the receipt of each payment the prime contractor receives from the City. The prime contractor agrees further to return retainage payments to each subcontractor within 10 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the City. This clause applies to both DBE and non-DBE subcontractors.

"3.6.1.2 The prevailing wage rates applicable to the Work shall be Document 00810 - Wage Scale/Engineering/FAA, as bound in the Project Manual. Documents 00820 and 00821 shall not apply."

"3.23.2.1 Contractor shall maintain an acceptable cost accounting system. City, FAA, and the Comptroller General of the United States shall have access to any books, documents, paper, and records of Contractor which are directly pertinent to the specific contract for the purposes of making an audit, examination, excerpts, and transcriptions. Contractor shall maintain all required records for three years after City makes final payment and all other pending matters are closed."

ARTICLE 5- SUBCONTRACTORS AND SUPPLIERS

- "5.3 Buy American Program
- 5.3.1 Contractor shall incorporate provisions for certification regarding Buy American Program in all lower tier contracts, using Document 00456- Bidder's Certification of Compliance with Buy American Program for this purpose.
- 5.4 Debarment, Suspension, Ineligibility and Voluntary Exclusion
- 5.4.1 Contractor shall incorporate provisions for certification regarding debarment, suspension, ineligibility and voluntary exclusion in all lower tier transactions, solicitations, proposals, contracts, and subcontracts, using Document 00607- Bidder's Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion for this purpose. Where the lower tier participant is unable to certify to this statement, then participant shall attach an explanation to the form of agreement between Contractor and lower tier participant.

"5.5 Foreign Trade Restrictions

5.5.1 Contractor shall incorporate provisions for certification regarding foreign trade restrictions (use Document 00458- Bidder's Certification Regarding Foreign Trade Restrictions for this purpose) in all lower tier contracts. Contractor may rely upon the certification of Subcontractors and Suppliers unless Contractor has knowledge that the certification is erroneous. Contractor shall immediately notify City if Contractor learns that its certification or that of a Subcontractor or Supplier is erroneous by reason of changed circumstances. Contractor shall require each Subcontractor and Supplier to immediately notify Contractor, if at any time Subcontractor or Supplier learns its certification is erroneous by reason of changed circumstances."

"ARTICLE 15- PROVISIONS GOVERNING PROJECTS FUNDED BY AIP GRANTS

15.1 The Work is included in the Airport Improvement Project Number written in Document 00510 which is being undertaken and accomplished by City following the terms and conditions of a grant agreement between City and the United States, under the Airport and Airway Improvement Act of 1982 (P.L. 97-248) as amended by the Airport and Airway Safety and Capacity Expansion Act of 1987 (P.L. 100-223) and Part 152 of the Federal Aviation Regulations (14 CFR Part 152), pursuant to which the United States has agreed to pay a certain percentage of the costs under those Acts. The United States is not a party to this contract and no reference in this contract to FAA or any representative

thereof, or the United States, by the contract, makes the United States a party to this contract.

- 15.2 No convict labor shall be employed under this contract.
- 15.3 In the employment of labor (except in executive, administrative, and supervisory positions), preference shall be given to veterans of the Vietnam era and disabled veterans as defined in Section 515(c)(1) and (2) of the Act. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.
- 15.4 Whether or not payments or advances to City are withheld or suspended by FAA, City may withhold or cause to be withheld from Contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by Contractor or any Subcontractor on the work, the full amount of wages required by this contract.
- 15.5 If Contractor or Subcontractor fails to pay any laborer or mechanic employed or working on the site of the work any of the wages required by this contract, City may, after written notice to Contractor, take such action as may be necessary to cause the suspension of any further payment or advance of funds until the violations cease.
- 15.6 Contractor shall insert in each subcontract the provisions contained in paragraphs 15.1, 15.3 15.4 15.5, 15.6 and 15.7 requiring Subcontractors to include these provisions in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.
- 15.7 General Civil Rights Provisions:
- 15.7.1 The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

15.8 Davis-Bacon Act Requirements (29 CFR PART 5):

15.8.1 Minimum Wages:

- .1 All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between Contractor and such laborers and mechanics. Wage rates will be modified prior to award of the contract if a modification(s) is published in the Federal Register prior to contract award unless: (1) the notice is published within 10 days or less of bid opening and the FAA finds that there is not reasonable time still available before bid opening to notify bidders of the modification; or (2) the contract is awarded within 90 days of bid opening. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis Bacon Act on behalf of laborers or mechanics are considered wages paid to laborers or mechanics, subject to the provisions of paragraph (15.10.1)(d) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under (B-1)(b) of this section) and the Davis Bacon poster (WH 1321) shall be posted at all times by Contractor and its Subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.
- .2 .1 City Engineer shall require that any class of laborers or mechanics which is not listed in the wage determination, and which is to be employed under the contract shall be classified in conformance with the wage determination. City Engineer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
- 1) The work to be performed by the classification requested is not performed by a classification in the wage determinations; and

- 2) The classification is utilized in the area by the construction industry; and
- 3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- If Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and City Engineer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by City Engineer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise City Engineer or will notify City Engineer within the 30 day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215 0140).
- In the event Contractor, the laborers or mechanics to be employed in the classification or their representatives and City Engineer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), City Engineer shall refer the questions, including the views of all interested parties and the recommendation of City Engineer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise City Engineer or will notify City Engineer within the 30 day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215 0140).
- .4 The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (B-1)(b)(2) or (3) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- .3 Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- .4 If Contractor does not make payments to a trustee or other third person, Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of Contractor, that the applicable standards of the Davis Bacon Act have been met. The Secretary of Labor may require Contractor to set aside in a separate account asset for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215 0140).

15.8.2 Withholding: The Federal Aviation Administration or City shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally assisted contract subject to David Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by Contractor or any Subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to Contractor or City take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

15.8.3 Payrolls and Basic Records:

- Payrolls and basic records relating thereto shall be maintained by Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b)(2)(B) of the Davis Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis Bacon Act, Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (29 CFR 5.5(a)(3)(i) (Approved by the Office of Management and Budget under OMB Control Numbers 1215 0140 and 1215 0017).
- .2 .1. Contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to City for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph 5.5(a)(3)(i) above. This information may be submitted in any form desired. Optional Form WH 347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal

Stock Number 029 005 00014 1), U.S. Government Printing Office, Washington, D.C.20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1215 0149).

- .2 Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by Contractor and applicable Subcontractors or their agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- 1) That the payroll for the payroll period contains the information required to be maintained under paragraph 15.8.3.1 above and that such information is correct and complete;
- 2) That each laborer and mechanic (including each helper, apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;
- 3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- .3 The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH 347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 15.8.3.2.2 of this section.
- .4 The falsification of any of the above certifications may subject Contractor or Subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- .3 Contractor or Subcontractor shall make the records required under paragraph 15.8.3.1 of this section available for inspection, copying or transcription by authorized representatives of City, the Federal Aviation Administration or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If Contractor or a Subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to Contractor or City take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

15.8.4 Apprentices and Trainees:

.1 Apprentices: Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in Contractor's or Subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

.2 Trainees: Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training

Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- .3 The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- 15.8.5 Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.
- 15.8.6 Subcontracts: Contractor or Subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.
- 15.8.7 All rulings and interpretations of the Davis Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- 15.8.8 Disputes Concerning Labor Standards: Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between Contractor (or any of its Subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.
- 15.8.9 Certification of Eligibility:

- .1 By entering into this contract, Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis Bacon Act or 29 CFR 5.12(a)(1).
- .2 No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis Bacon Act or 29 CFR 5.12(a)(1).
- .3 The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.
- 15.8.10 Contract Termination, Debarment: A breach of the contract clauses in paragraph 15.8.1 through 15.8.9 and paragraphs 15.9.1 through 15.9.5 may be grounds for termination of the contract, and for the debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.
- 15.9 Contract Workhours and Safety Standards Act Requirements (29 CFR PART 5):
- 15.9.1 No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- 15.9.2 Violation; Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 15.11.1 above, Contractor or any Subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 15.11.1 above, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 15.11.1 above.
- 15.9.3 Withholding for Unpaid Wages and Liquidated Damages: The Federal Aviation Administration or City shall upon its own action or upon written request of an authorized

representative of the Department of Labor withhold or cause to be withheld, from any monies payable on account of work performed by Contractor or Subcontractor under any such contract or any other Federal contract with the same prime Contractor, or any other Federally assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 15.11.2 above.

- 15.9.4 Subcontractors: Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 15.11.1 through 15.11.4 and also a clause requiring the Subcontractor to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 15.11.1 through 15.11.4.
- 15.9.5 Working Conditions: No contractor or subcontractor may require any laborer or mechanic employed in the performance of any contract to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous to his health or safety as determined under construction safety and health standards (29 CFR Part 1926) issued by the Department of Labor.
- 15.10 Equal Employment Opportunity (41 CFR PART 60 1.4(b)):
- 15.10.1 Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following:
- 15.10.1.1 Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 15.10.2 Contractor will, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- 15.10.3 Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

- 15.10.4 Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- 15.10.5 Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 15.10.6 In the event of Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedure authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- 15.10.7 Contractor will include the portion of the sentence immediately preceding paragraph D-1 and the provisions of paragraphs D-1 through D-7 in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each Subcontractor. Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provision, including sanctions for noncompliance: Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor as a result of such direction by the administering agency Contractor may request the United States to enter into such litigation to protect the interests of the United States.

15.11 Clean Air and Water Pollution Control Requirements

15.11.1 Any other provision herein to the contrary notwithstanding, Contractor in carrying out work under this contract, shall at all times comply with all applicable state and federal air and water quality standards,; with all pollution control laws; and with such rules, regulations, and directives as may be lawfully issued by a local, state, or federal agency having within its jurisdiction the protection of the environment in the area surrounding where work under this contract will be performed. In addition, Contractor shall comply with directives given by the Project Engineer in implementation of the letter and intent of FAA Advisory Circular 150/5370-10, Item P-156, Temporary Air and Water Pollution, Soil Erosion and Siltation Control. Copies of this Advisory Circular can be obtained from Department of Transportation, Distribution Unit, TAD-484.3, Washington, D.C. 20590.

15.11.2 Contractors and Subcontractors agree:

- .1 That any facility to be used in the performance of the contract or subcontract or to benefit from the contract is not listed on the Environmental Protection Agency (EPA) List of Violating Facilities;
- .2 To comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 U.S.C. 740-7671q,1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. relating to inspection, monitoring, entry, reports, and information, as well as all other requirements specified in Section 114 and Section 308 of the Acts, respectively, and all other regulations and guidelines issued thereunder;
- .3 That, as a condition for the award of this contract, Contractor or Subcontractor will notify the awarding official of the receipt of any communication from the EPA indicating that a facility to be used for the performance of or benefit from the contract is under consideration to be listed on the EPA List of Violating Facilities;
- .4 To include or cause to be included in any construction contract or subcontract which exceeds \$100,000 the aforementioned criteria and requirements.
- 15.12 Compliance with Nondiscrimination Contractual Requirements Pursuant to Civil Rights Act of 1964, Title VI (49 CFR PART 21)

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor"), agrees as follows:

- 1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- 2. Nondiscrimination: The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
- 3. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified

by the Contractor of the contractor's obligations under this contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.

- 4. Information and Reports: The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
- 5. Sanctions for Noncompliance: In the event of a Contractor's noncompliance with the nondiscrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:

Withholding payments to the Contractor under the contract until the Contractor complies; and/or

Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

15.13 Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

• Title VI of the Civil Rights Act of 1964 (42 USC § 2000d et seq., 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);

- 49 CFR part 21 (Non-discrimination in Federally-assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 et seq.), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended (42 USC § 6101 et seq.) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 USC § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 USC §§ 12131 12189) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration's Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations.
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC 1681 et seq).

15.14 Copeland "Anti-Kickback" Act

Contractor must comply with the requirements of the Copeland "Anti-Kickback" Act (18 USC 874 and 40 USC 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

15.15 Distracted Driving

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving", (10/1/2009) and DOT Order 3902.10, "Text Messaging While Driving", (12/30/2009), the Federal Aviation Administration encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or subgrant.

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n support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 that involve driving a motor vehicle in performance of work activities associated with the project.

15.16 Energy Conservation Requirements

Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 USC 6201et seq).

15.17 Procurement of Recovered Materials

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PN 957

SUPPLEMENTARY CONDITIONS FOR PROJECT FUNDED BY AIP GRANT

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or

The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

15.18 Veteran's Preference

In the employment of labor (excluding executive, administrative, and supervisory positions), the Contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 USC 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

15.19 FAA AC 150/5370-10H Provision Requirements & Laws to be observed. The Contractor shall keep fully informed of all federal and state laws, all local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. The Contractor shall at all times observe and comply with all such laws, ordinances, regulations, orders, and decrees; and shall protect and indemnify the Owner and all their officers, agents, or servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or the Contractor's employees.

END OF DOCUMENT

DOCUMENT 00806-AIP

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

(Bidders Note: City of Houston Ordinance No. 89-226, which repealed an earlier Ordinance, establishing a Disadvantaged Business Enterprise Program, was passed and adopted on February 15, 1989, effective February 21, 1989. The Ordinance governs construction contracts funded in whole or part by United States DOT.

Portions of the Ordinance not related to construction work and portions dealing with administrative issues about the Ordinance are deleted from this Document for purpose of brevity.

Section names and numbers follow the Ordinance. Paragraph numbering within Sections, pagination and format varies from the Ordinance.

See Document 00807- Bidder Requirements for Disadvantaged Business Enterprise (DBE) Program for Project Funded by AIP Grant for specific procedures.)

Section 1 REPEAL [Paragraph Deleted]

Section 2 DEFINITIONS

- A. The following words and phrases have the meanings ascribed unless the context clearly indicates another meaning. Singular includes the plural, plural includes the singular, masculine includes the feminine and feminine includes the masculine.
- 1. Affirmative Action: Taking specific steps to eliminate discrimination and its effects, to ensure nondiscriminatory results and practices in the future, and to involve DBEs fully in contracts and programs funded by DOT.
- 2. Airport(s): Defined in Section 01423.
- 3. Business: An entity that under its current organization and ownership has evidence of: an office or an office-like space; a formal declaration of business in the name of the business such as: an assumed name certificate, a corporate charter, a partnership agreement, a joint venture agreement; or some comparable evidence of a business

structure; a business bank account, or evidence of cash receipt, or evidence of payments of money by the business such as canceled checks relating to the business; or an invoice with paid receipt or related canceled check relating to the business; one reference for whom work has been performed or to whom goods or materials have been sold; one reference from whom goods or materials have been purchased for the business or from whom major equipment has been purchased or leased; and visible signs of a business operation including but not limited to letterhead stationary, business cards, telephone directory or information listing, signage in the name of the business on buildings, doors, major equipment, or similarly placed locations, imprinted receipt books, or flyers.

- 4. Commercially Acceptable Function: A discrete task or group of tasks, the responsibility for performance of which is discharged by the DBE by using its own forces or by actively supervising on-site the execution of the task(s) by another entity for whose work the DBE is responsible. Without limiting the generality of the foregoing, a DBE is considered not to be performing a commercially acceptable function, if it subcontracts to non-DBE firms, more than 50% of a contract being counted toward the applicable DBE participation goal.
- 5. Contract: Defined in Document 00700.
- 6. Contractor: Defined in Document 00700, and one who participates in a contract or subcontract subject to the Ordinance.
- 7. Controlled: One or more socially and economically disadvantaged individuals who own the requisite interests in or assets of a business applying for DBE certification having and exercising independently the authority to control the business decisions of the business. Characteristic of such control is the authority to: sign bids and contracts; make price negotiation decisions; incur liabilities for the business; make personnel decisions; establish policy for the business; direct the management of the business; make any financial decision on behalf of the business; and sell or liquidate the business at will.
- 8. Disadvantaged Business Enterprise (DBE): An independent small business which is: at least 51% owned, as defined herein, by one or more socially and economically disadvantaged individuals, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individuals; and managed, as defined herein, and whose daily business operations are controlled, as defined herein, by one or more of the socially and economically disadvantaged individuals who own it; and which is certified by City as meeting this Paragraph H definition.
- 9. DOT: Defined in Section 01423.
- 10. DOT-assisted contract: Contract between City and Contractor which is paid for in whole or in part with DOT financial assistance.
- 11. FAA: Defined in Section 01423.

- 12. Good Faith Efforts: Those efforts required to be made and demonstrated by the apparent successful Bidder prior to award of a Contract in the event the apparent successful Bidder has been unsuccessful in meeting the contract DBE goal. Good Faith Efforts include at a minimum the following:
- a. Delivery of written notice to the following:
- 1) All local certified DBEs in the directory for the month prior to the month of the bid or proposal submission date and identified as performing work or services or providing commodities for all potential subcontracting or supply categories in the Contract; and
- 2) All minority and -women business organizations and associations identified in the directory for the month prior to the month of the bid or proposal submission date; and
- 3) All media focused toward minorities and women identified in the directory for the month prior to the month of the bid or proposal submission date; and
- 4) All local DBEs which requested information on the Contract.
- b. The written notices shall contain:
- 1) Adequate information about the Project Manual, Drawings, and relevant terms and conditions of the Contract and about the work to be subcontracted to or the goods to be obtained from Subcontractors and Suppliers;
- 2) A contact person within the apparent successful Bidder's office to answer questions;
- 3) Information as to the apparent successful Bidder's bonding requirements, the procedure for obtaining any needed bond, and the name and telephone number of one or more acceptable surety companies to contact;
- 4) Last date for receipt by the Bidder of DBE bids or price quotations;
- 5) Invitation to attend any special pre-bid meeting called to inform DBEs of subcontracting or supply opportunities, if set forth in the Bidding Documents.
- 6) Division of the contract, as recommended by Director of Aviation and in accordance with normal industry practice, into small, economically feasible segments that could be performed by DBEs; and
- 7) Explanation for rejection to any DBE whose bid or price quotation is rejected, unless another DBE is accepted for the same work, as follows:
- a) Where price competitiveness is not the reason for rejection, a written rejection notice including the reason for rejection will be sent to the rejected DBE;
- b) Where price competitiveness is the reason for rejection, a meeting will be held, if requested, with the price-rejected DBE to discuss the rejection.

- 8) Explanation for rejection of any DBE to Affirmative Action and Contract Compliance Division ("AAD"), unless another DBE is accepted for the same work, including the name of the non DBE firm proposed to be awarded the subcontract or supply agreement, and if price competitiveness is the reason for rejection, the DBE's price quotation and the successful non DBE's price quotation.
- c. Good Faith Efforts for construction mean at a minimum efforts which, in the joint opinion of Director of Aviation and Liaison Officer, given all relevant circumstances, would reasonably be expected to produce a level of DBE participation sufficient to meet the goal. The efforts must, in the joint opinion of Director of Aviation and Liaison officer, be those that a competitor actively and aggressively seeking to meet the goal would make.
- 13. Independent business: A business not dependent upon or connected with another business that is not a DBE, as evidenced by such items as multiple shared resources, common employees, common directors, or payment of the DBE's payroll by a non-DBE firm.
- 14. Joint Venture: An association of two or more businesses to carry out a single business enterprise for profit for which purpose they combine their property, capital, efforts, skills, and knowledge.
- 15. Managed: One or more socially and economically disadvantaged individuals, who own and control the business independently from the control or influence of a non-DBE business, shall operate the business by making the day-to-day decisions affecting the functional mission of the business. In instances where a license or permit is required in order to perform the functional mission of the business, one or more of the socially and economically disadvantaged individuals who own the business shall be licensed or have a permit in their name to perform the functional mission of the business.
- 16. OBO: The City of Houston Mayor's Office of Business Opportunity.
- Owned: One or more socially and economically disadvantaged individuals who 17. have ownership of the requisite interests in or assets of a business applying for DBE certification shall possess equivalent incidents of such ownership, including an equivalent interest in the profit and loss of the business, a commensurate position and reasonable salary therefor, and an equivalent contribution of capital, equipment and/or expertise to the business. Such contributions shall be real and substantial. Securities shall be held directly by the socially and economically disadvantaged person and not in trust on their behalf. For purposes of certification as a business owned by a woman, ownership shall be measured as though not subject to the community property interest of the applicant's husband, if (a) both spouses certify in writing that the nonparticipating spouse relinquishes control over his community property interest in the subject business (but by doing so is not required to transfer to his spouse his community property ownership interest or to characterize the property as the separate property of his wife), and (b) the husband does not exercise any ownership control over the business by virtue of his community property interest, including serving as a corporate director, being an employee

involved in the functional mission of the business or acting as a paid consultant to the business.

- 18. Small business: Defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto, except that a small business shall not include any business or group of businesses controlled by the same socially and economically disadvantaged individual or individuals which has annual average gross receipts in excess of \$14 million over the previous 3 fiscal years.
- 19. Socially and economically disadvantaged individuals: Individuals who are citizens of the United States (or lawfully admitted permanent residents) and who are women, Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, or Asian-Indian Americans and any other minorities or individuals found to be disadvantaged by the Small Business Administration pursuant to section 8(a) of the Small Business Act. City shall make a rebuttable presumption that individuals in the following groups are socially and economically disadvantaged, and may determine, on a case-by-case basis, that individuals who are not members of one of the following groups are socially and economically disadvantaged.
- a. Black Americans- persons having origins in any of the Black racial groups of Africa;
- b. Hispanic Americans- persons of Mexican, Puerto Rican, Cuban, Central or -South American, or other Spanish or Portuguese culture or origin, regardless of race;
- c. Native Americans- American Indians, Eskimos, Aleuts, or Native Hawaiians;
- d. Asian-Pacific Americans- persons whose origins are From Japan, China, Taiwan, Korea, Vietnam, Laos, Cambodia, the Philippines, Samoa, Guam, U.S. Trust Territories of the Pacific, and the Northern Marianas; and
- e. Asian-Indian Americans- persons whose origins are from India, Pakistan, and Bangladesh.

Section 3 POLICY STATEMENT-- The Policy Statement ("Attachment A", after Section 18 below), as executed by the Mayor, is adopted as the expression of commitment by City to use Disadvantaged Business Enterprises ("DBEs"), as defined herein, in all aspects of contracting subject to the Regulations to the maximum extent feasible. City shall comply with all provisions of the Regulations whether specifically recited herein or not.

Section 4 LIAISON OFFICER

A. The Mayor is hereby authorized to designate from time to time a Liaison Officer for the DBE Program. Director of Office of Business Opportunity (OBO) is the initial Liaison

officer. Liaison Officer will report directly to the Mayor and is charged with responsibility in conjunction with Director of Aviation for developing and executing procedures for implementation of the DBE Program.

- B. Duties of the Liaison Officer include:
- 1. Monitoring, managing and implementing the DBE Program;
- 2. Developing forms for certification applications, reporting and bid and contract clauses;
- 3. Monitoring, via periodic reviews, Contractor's compliance with the DBE Program;
- 4. Serving as liaison to economic development organizations and agencies working in support of economic development in the minority and women's communities;
- 5. Establishing procedures for certification of DBEs and maintaining and updating bimonthly a register of DBEs with specific information on areas of work experience;
- 6. Designing and conducting "in-house" DBE seminars, as well as providing assistance to interested bidders, as requested;
- 7. Disseminating information to DBEs concerning business opportunities in DOT-assisted contracts and subcontracts:
- 8. Attending pre-bid and pre-construction conferences to explain DBE requirements (when requested by Director of Aviation);
- 9. Coordinating with Director of Aviation to establish recommendations for contract and annual program-wide goals;
- 10. Maintaining records of DBE participation and regularly reporting to the Mayor, City Council and DOT, as required.

Section 5 COORDINATION OF CITY DEPARTMENTS

- A. Primary responsibility for the DBE Program rests with Liaison Officer. Assistance of other departments and technical resources are necessary for effective administration and execution of the DBE Program.
- B. Director of Aviation shall:
- 1. Provide Liaison Officer an opportunity to review bid invitations prior to advertisement to ensure that City's DBE requirements are adequately addressed;
- 2. When required, coordinate pre-bid conferences with Liaison Officer so that Liaison Officer may explain DBE requirements and respond to questions;

- 3. Ensure that Liaison Officer has the opportunity to evaluate DBE participation submissions in order to determine that Good Faith Efforts are made to meet DBE contract goals;
- 4. Report to Liaison Officer, upon request, but no more frequently than monthly, on Department of Aviation's efforts and success at achieving the DBE goals; and
- 5. Advertise contracts for which a goal has been established hereunder, in addition to publication in a newspaper of general circulation, in at least one minority or women focused newspaper or publication named by OBO.

Section 6 PROCEDURES TO ENSURE THAT DBES WILL HAVE AN EQUITABLE OPPORTUNITY TO COMPETE FOR CONTRACTS AND SUBCONTRACTS

- A. Affirmative action techniques employed by OBO and Department of Aviation to facilitate participation by DBEs in DOT-assisted contracting activities of City, include:
- 1. Arranging solicitations, time for submission of bids, quantities, specifications and deliveries to better accommodate participation of DBEs to the greatest extent practicable consistent with good procurement practices;
- 2. Implementing informational and communication programs on contracting opportunities and procedures, with such programs being bilingual where appropriate;
- 3. Providing assistance, as practical, in overcoming barriers such as inability to obtain bonding, financing or technical assistance;
- 4. Holding pre-bid conferences to explain procedures and forms used and to encourage prime contractors to use DBEs as Subcontractors;
- 5. Including City's goal for DBE participation in bid solicitation for DOT-assisted contracts;
- 6. Informing minority Chambers of Commerce, and minority and women contractors associations of upcoming bid dates and the scope of work through Liaison Officer;
- 7. Arranging with Designer for purchase of individual Project Manual Sections and Drawing sheets by interested firms; and
- 8. Making available, upon request, the list of plan holders of record for DOT-assisted projects.

Section 7 USE OF MINORITY OR WOMEN-OWNED BANKS (City encourages contractors to utilize services of minority and women-owned banks. OBO maintains a list of minority and women-owned banks located in Houston, Texas.)

Section 8 DBE DIRECTORY-- OBO maintains a current register of firms, updated bimonthly, listing certified DBEs, including address, telephone number and area(s) of work for which DBEs are certified. This register is available to Bidders as a tool to assist them in locating DBEs. City makes no representation that all firms listed in the register are currently eligible DBEs, nor does City endorse any DBE named. Bidders and Contractor are not limited to this register as a source of DBE Subcontractors; however, DBE's must be certified by OBO prior to being eligible.

Section 9 DBE ELIGIBILITY CERTIFICATION AND JOINT VENTURES INVOLVING DBEs

- A. AAD shall certify eligibility of DBE's and joint ventures involving DBEs. An applicant denied certification by OBO may avail itself of the DOT appeal procedures set out at 49 CFR Part 23. OBO shall not accept for review another application for certification from an applicant previously denied certification until 6 months after the date of denial. In the event of an appeal to DOT of denial of certification, OBO shall not accept for review another application for certification until 6 months after the date of denial by DOT.
- B. AAD shall take at least the following steps in determining whether to certify a firm:
- 1. Perform an on-site visit to the offices of the firm and to any job sites on which the firm is working at the time of the eligibility investigation;
- 2. Obtain resumes or work histories of the principal owners of the firm and personally interview those individuals;
- 3. Analyze ownership of stock in the firm, if it is a corporation;
- 4. Analyze bonding and financial capacity of the firm;
- 5. Determine the work history of the firm, including contracts received and work completed;
- 6. Obtain or compile a list of equipment owned or available to the firm and the licenses of the firm and its key personnel to perform the work it seeks to do as part of the DBE program;
- 7. Obtain a statement from the firm of the type of work it prefers to perform as part of the DBE program.
- C. City shall require apparent successful Bidder to meet or exceed the DBE goal or to make Good Faith Efforts to do so, prior to award of the contract. City shall also require apparent successful Bidder or Contractor to make Good Faith Efforts to subcontract with

a substitute DBE when one DBE is unable to perform successfully, though there is no requirement that the replacement perform the same subcontract services. City reserves the right to approve substitutions of Subcontractors and Suppliers in order to assure continued compliance with the goal.

Section 10 PERCENTAGE GOALS

- A. City Council shall establish, by motion, annual Program-wide goals. The goal for construction shall be established as a percentage of the DOT financial assistance to the airport that is expended in contracting and not that assistance used for reimbursement of City's own forces or for land acquisition ("DOT Financial Assistance Base").
- B. The following factors are considered in arriving at the goal:
- 1. Number and types of contracts to be awarded by City during its fiscal year;
- 2. Number and types of DBEs certified by City;
- 3. Number and types of DBEs likely to be available to compete for contracts during City's fiscal year; and
- 4. Past results of City's efforts to contract with DBEs.
- C. Program-wide goals shall be reviewed on an annual basis by Liaison Officer and Director of Aviation. The review process shall analyze the same factors listed in Paragraph B above. Recommendation for adoption of the Program-wide goals for the next fiscal year shall be made to City Council jointly by Liaison Officer and Director of Aviation, on or before May 1 of each year. Each motion setting Program-wide goals shall be submitted to DOT/Southwest Region.
- D. After consideration of the known availability of qualified DBEs in the areas to be contracted, Director of Aviation shall either:
- 1. Assign an appropriate DBE contract goal which may be less than, equal to or greater than the applicable Program-wide goal; or
- 2. For contracts not required to be competitively bid, designate the contract as one to be competed for only by DBEs (see Section 12 Set Asides); or
- 3. Determine that one of the following exceptions applies and the contract should be excepted from DBE goal setting: the contract is of such a specialized, technical or unique nature as to require City to be able to select Contractor without regard to DBE participation; or DBE participation would be negligible based on known availability of qualified DBEs. In the event an exception is determined to apply, Director of Aviation shall notify OBO, in writing, of this determination prior to advertisement or in the case of contracts for which no advertisement is published, prior to contract award. OBO may challenge this determination. The apparent successful Bidder, prior to award, shall meet

or exceed the contract goal or demonstrate that it could not meet it despite Good Faith Efforts.

- E. At the time City submits its Program-wide goals to DOT, it shall publish a notice announcing the goal, informing the public that the goal and a description of how it was selected is available for inspection during normal business hours at City Secretary's Office for 30 days following the date of the notice, and informing the public that DOT and City will accept comments on the goals for 45 days from the date of the notice. The notice shall include addresses to which comments may be sent, and shall be published in general circulation media, available media focused specifically toward minorities or women and trade association publications, and shall state that the comments are for informational purposes only.
- F. Bidders and Contractor shall at a minimum seek DBEs in the same geographic area in which contractors or Subcontractors are normally sought for a given solicitation.

Section 11 MEANS TO ENSURE THAT COMPETITORS MAKE GOOD FAITH EFFORTS TO MEET DBE-CONTRACT GOALS

- A. The apparent successful Bidder shall submit DBE participation information to City. Award of the contract will be contingent upon apparent successful Bidder meeting the DBE contract goal or satisfying City that Good Faith Efforts to do so have been made.
- B. The apparent successful Bidder shall submit the following information, following Documents 00495 and 00807, within the time period stated in Document 00495, so that a determination can be made of whether the DBE contract goal has been met:
- 1. Names and addresses of DBE firms that will participate in the contract;
- 2. Description of the work each named DBE firm will perform;
- 3. Dollar amount of work to be performed by each named DBE firm and the related percentage of participation; and
- 4. Certification number of the DBE (optional).

In the event that review of this submission by City reveals proposed DBE participation will not meet the goal, the apparent successful Bidder shall submit within 15 working days of notification information concerning sufficient DBEs to meet the goal in the opinion of Liaison Officer, or documentation of Good Faith Efforts to do so. Failure to timely submit required information may result in rejection of the Bidder's bid. The periods of time for submissions and actions to be taken by the apparent successful Bidder may be reduced or expanded in Bidding Documents or by Director of Aviation for contracts which do not result from bidding.

Section 12 DBE SET ASIDES-- State and local law prohibit City from including DBE set-asides (a technique which limits consideration of bids or Proposals to those submitted by DBEs) in its competitively bid contracts. The most relevant procurement regulations prohibiting set-asides, are contained in Chapter 252, Local Government Code (Vernon), and Article II, Section 19, "Contracts," of the Houston City Charter. Set asides may be used only in the instance of contracts for which competitive bidding is not required by law and only then when Director of Aviation and Liaison Officer agree that there are sufficient DBEs with the required capability to assure competition for the contract, but in no event fewer than 3, and that because of the nature of the contract, or conditions affecting its award, remediation of effects of historic discrimination would be impeded if a less restrictive measure were applied.

Section 13 COUNTING DBE PARTICIPATION TOWARD MEETING DBE GOALS

- A. DBE participation shall be counted toward meeting DBE goals as follows:
- 1. Once a firm is certified as a DBE, the total dollar value of a contract awarded to the DBE in its field or fields of certification will be counted toward the applicable DBE goals.
- 2. The apparent successful Bidder or Contractor may count toward the DBE goal that portion of the total dollar value of a contract with a joint venture equal to the percentage of ownership of the joint venture by the DBE joint venturer.
- 3. The apparent successful Bidder or Contractor may count toward the DBE goal only expenditures to DBEs that perform a Commercially Acceptable Function in the work of a contract. To determine whether a DBE is performing a Commercially Acceptable Function, City shall evaluate the amount of work subcontracted, industry practices, and other relevant factors.
- 4. Consistent with normal industry practices, a DBE may enter into subcontract. If a DBE subcontracts to non-DBEs a significantly greater portion of the work of the contract than would be expected on the basis of normal industry practices, and in any case more than fifty 50%, the DBE shall be presumed not to be performing a Commercially Acceptable Function. The DBE may present evidence to AAD, through Contractor, if applicable, to rebut this presumption. Liaison Officer's decision on the rebuttal of this presumption is final.
- 5. The apparent successful Bidder or Contractor may count, as specified below, toward the DBE goal expenditures or materials and supplies obtained from DBE Regular Dealers and Manufacturers provided that the DBE assumes the actual and contractual responsibility for the provision of the materials and supplies.
- a. The apparent successful Bidder or Contractor may count 100 percent of its expenditure to a DBE Manufacturer (a firm that operates or maintains a factory or

establishment that produces on-premises, or substantially alters before resale, products obtained by Contractor).

- b. The apparent successful Bidder or Contractor may count 60 percent of its expenditures for products obtained from DBE Regular Dealers, provided that the DBE Regular Dealer performs a Commercially Acceptable Function in the supply process. For purposes of this section, a Regular Dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the products required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the firm shall engage in, as its principal business, and in its own name, the purchase and sale of products in question. A Regular Dealer in bulk items such as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns or operates distribution equipment. Brokers and packagers are Manufacturers or Regular Dealers within the meaning of the section.
- c. The apparent successful Bidder or Contractor may count toward the DBE goal the following expenditures to DBE firms that are not "Manufacturers" or "Regular Dealers":
- 1) Fees or commissions for providing a bona fide service, such as professional, technical, consultant or managerial services and assistance in procurement of essential personnel, facilities, products (but not the cost of the products themselves) required for performance of the contract, provided the fee or commission is determined by AAD to be reasonable and not excessive as compared with fees customarily allowed for similar services.
- 2) Fees for delivery of products required on site (but not the cost of the products themselves) when the hauler, trucker, or delivery service is not also the "Manufacturer" of or "Regular Dealer" in the products, provided the fee is determined by AAD to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Section 14 POLICY CONCERNING LEASES [Paragraph Deleted]

Section 15 MAINTENANCE OF RECORDS AND REPORTS

A. AAD shall maintain a record keeping system to identify and assess DBE contract awards, prime contractors' progress in achieving DBE contract goals, and other DBE Affirmative Action efforts. Specifically, AAD shall: maintain records showing procedures adopted to comply with requirements of the ordinance; obtain regular reports from Contractor on Contractor's progress in meeting contractual DBE obligations. Contractor shall submit to AAD copies of all DBE agreements as they are executed; make specific efforts to identify and award contracts to DBEs.

- B. Such records will be available, upon request, to any authorized officer or employee of DOT.
- C. Liaison Officer shall submit quarterly reports to FAA, including at a minimum:
- 1. Number of DOT-assisted contracts awarded to DBEs by City through contractors;
- 2. Description of general categories of DOT-assisted contracts awarded to DBEs during the resorting period;
- 3. Dollar value of- the FAA share of DOT-assisted contracts awarded to DBEs;
- 4. Percentage of the dollar value of the FAA share of all DOT-assisted contracts awarded during this period which were awarded to DBEs; and,
- 5. Indication of whether and the extent to which the percentage met or exceeded the Program-wide goals.

Section 16 INFORMATION TO BE INCLUDED IN CONTRACT DOCUMENTS

- A. The following statements shall be included in their entirety in all advertisements, Bidding and Contract Documents related to DOT-assisted contracts:
- 1. "It is the policy of DOT that Disadvantaged Business Enterprises as defined in 49 CFR Part 23 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds. Consequently, the DBE requirement of 49 CFR Part 23 will be included in all contract documents for DOT-assisted contracts."
- 2. "City and the apparent successful Bidder, or Contractor, agree to ensure that Disadvantaged Business Enterprises, as defined in 49 CFR Part 23, have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds provided under this agreement. In this regard, City and the apparent successful Bidder, or Contractor, shall take all necessary and reasonable steps in accordance with 49 CFR Part 23 to ensure that DBEs have the maximum opportunity to compete for and perform contracts. City and the apparent successful Bidder, or Contractor, shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of DOT-assisted contracts."
- B. The following statements shall be included in their entirety, in addition to those in subsection A, in all advertisements, Bidding and Contract Documents for DOT-assisted contracts for which a DBE goal has been established:
- 1. "All Bidders shall make Good Faith Efforts, as defined in Document 00806-Disadvantaged Business Enterprise Program, to subcontract [percent value stated in Document 00801- Supplementary Conditions] of the dollar value of the prime contract to small business concerns Owned, Controlled and Managed by socially and economically

disadvantaged individuals (DBE). In the event that the apparent successful Bidder qualifies as a DBE, the contract goal shall be deemed to have been met. Individuals who are rebuttably presumed to be socially and economically disadvantaged include women, Blacks, Hispanics, Native Americans, Asian-Pacific Americans, and Asian-Indian Americans. The apparent successful Bidder shall submit information concerning DBEs that will participate in this contract. The information shall include the name and address of each DBE, a description of the work to be performed by each named firm, and the dollar value of the contract or subcontract. If Contractor fails to achieve the contract goal stated herein, Contractor shall provide documentation demonstrating Contractor's Good Faith Efforts in attempting to do so. A bid or contract that fails to meet these requirements will be considered nonresponsive."

- 2. "All bidders, potential contractors or Subcontractors for this DOT-assisted contract are hereby notified that failure to carry out the DOT policy and the DBE obligation, as set forth above, shall constitute a breach of contract which may result in termination of the contract or such other remedy deemed appropriate by City."
- 3. "All Bidders and Contractor hereby assure that they will include the above clauses in all subcontracts which offers further subcontracting opportunities."
- 4. "It is further understood and agreed that the award procedure for this solicitation will include the selection criteria of 49 CFR Part 23.45(I) to ensure that prime contracts are awarded to competitors that meet DBE goals."
- 5. "Notification is hereby given that DBE goals are established for this prime contract. The goal for firms owned and controlled by socially and economically disadvantaged individuals is [percent value stated in Document 00800- Supplementary Conditions] of the dollar value of this contract."
- 6. "As a prerequisite to contract execution, the apparent successful Bidder shall submit names and addresses of the certified DBE firms that will participate in the contract along with a description of the work to be performed by each named firm and the dollar value for each subcontract. If the responses do not clearly show DBE participation will meet the goals above, the apparent successful Bidder shall provide documentation clearly demonstrating, to the satisfaction of City, that it made Good Faith Efforts in attempting to do so and that meeting said goals is not reasonably possible. A bid that fails to meet these requirements will be considered nonresponsive."
- 7. "Agreements between Bidder and a DBE in which the DBE promises not to provide sub-contracting quotations to other Bidders are prohibited. The apparent successful Bidder or Contractor shall make good faith effort to replace a DBE Subcontractor that is unable to perform successfully with another DBE Subcontractor."
- C. "The apparent successful Bidder or Contractor shall establish and maintain records and submit regular reports, as required, which will identify and assess progress in achieving DBE subcontract goals and other DBE affirmative action efforts."

D. Bidding Documents shall include: DBE goals; DBE definitions; DBE selection criteria; Methods of counting DBE participation; Eligibility standards; Method for appeal of denial of certification; and Reporting forms.

Section 17 OPEN MEETINGS [Paragraph Deleted]

Section 18 EMERGENCY [Paragraph Deleted]

CONTRACTOR GOOD FAITH EFFORTS

("ATTACHMENT A")

- A. Good Faith Efforts for non DBEs in construction, procurement and professional services shall mean at a minimum the following:
- 1. Delivery of written notice to the following:
- a. All local certified DBEs in the directory for the month prior to the month of the bid or proposal submission date and identified as performing work or services or providing commodities for all potential subcontracting or supply categories in the Contract; and
- b. All minority and women focused associations identified in the directory for the month prior to the month of the bid or proposal submission date; and
- c. All news media focused toward minority persons and women identified in the directory for the month prior to the month of the bid or proposal submission date; and
- d. All DBEs which requested information on the Contract.
- 2. The written notices shall contain:
- a. Adequate information about plans, specifications, and relevant terms and conditions of the Contract and about the work to be subcontract or the goods to be obtained from Subcontractors and suppliers;
- b. A contact person within the apparent low bidder's or proposer's office to answer questions;
- c. Information as to the apparent low bidder's or proposer's bonding requirements, the procedure for obtaining any needed bond, and the name and telephone number of one or more acceptable surety companies to contact;

- d. The last date for receipt by the bidder or proposer of DBE bids or price quotations;
- 3. Attendance at any special pre bid meeting called to inform DBEs of subcontracting or supply opportunities, if set forth in the bidding or proposal documents.
- 4. Division of the Contract, as recommended by the department head of the initiating City department and in accordance with normal industry practice, into small, economically feasible segments that could be performed by DBE.
- 5. Providing an explanation for rejection to any DBE whose bid or price quotation is rejected, unless another DBE is accepted for the same work, as follows:
- a. Where price competitiveness is not the reason for rejection, a written rejection notice including the reason for rejection will be sent to the rejected DBE;
- b. Where price competitiveness is the reason for rejection, a meeting must be held, if requested, with the price rejected DBE to discuss the rejection; and
- 6. Providing an explanation for rejection of any DBE to the Affirmative Action and Contract Compliance Division, unless another DBE firm is accepted for the same work, including the name of the non DBE firm proposed to be awarded the subcontract or supply agreement, and if price competitiveness is the reason for rejection, the DBE's price quotation and the successful non-DBE's price quotation.
- B. Good Faith Efforts for DBEs in construction, procurement and professional services shall mean at a minimum the following:
- 1. Furnishing prompt written responses to any written inquiry from the Director or any employee of the Affirmative Action and Contract Compliance Division regarding the DBE's performance or information germane to the DBE's certification;
- 2. Ensuring that at all times during the performance of any Contract or subcontract subject to the requirements of Chapter 1 of the Code of Ordinances the DBE is engaging in a commercially acceptable function as that term is defined herein;
- 3. Ensuring that no application, response to a request for information, or other factual material submitted to the Director or any employee of the Affirmative Action and Contract Compliance Division contains any material misrepresentation; and
- 4. Furnishing prompt responses to requests from the department administering the Contract, the City Attorney and the city Controller for information, books and records needed to verify compliance.

END OF SECTION

DOCUMENT 00807

BIDDER/CONTRACTOR REQUIREMENTS FOR DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM

| PART | 1- | GEN | JERAL |
|------|----|------------|-------|
| | | | |

- 1.01 DOCUMENT INCLUDES
- A. General requirements of DBE Program.
- B. Bidder/Contractor and DBE requirements for compliance with DBE Program.
- C. Contractor Good Faith Efforts
- D. Form of DBE Monthly Utilization Report
- 1.02 SUBMITTALS
- A. Submit following within 10 days following date of "Notice of Intent to Award the Contract":
- 1. To City Engineer:
- a. One copy of Document 00600- List of Proposed Subcontractors and Suppliers, Part A-DBE Participation Plan ("Plan").
- b. One original copy of executed DBE subcontract(s), or Letter(s) of Intent for each DBE, or documentation (written on Bidder's stationery) of Good Faith Efforts if the Goal is not met, following Paragraph 1.04.B.
- 2. To Houston Airport System (HAS), Office of Business Opportunity (OBO):
- a. One copy of Document 00600 Part A.

- b. Original documents pursuant to Document 00806.
- c. Address to:

Houston Airport System, Office of Business Opportunity (OBO)

18600 Lee Road, Suite 131

Humble, Texas 77338

Attn: Manager of OBO

- B. Submit reports during progress of the Work:
- 1. Within 40 days after Notice to Proceed date, submit the first Report.
- 2. Thereafter on the 15th of each month, submit one Report outlining DBE participation, until DBE activity is complete.
- 3. Mail original of Reports to Affirmative Action Division at the address given in Paragraph 1.02.A.2.c above.
- 4. Mail one copy of Reports to City Engineer.

1.03 GENERAL DBE REQUIREMENTS

- A. City encourages full participation of DBEs in all phases of City's procurement activities to afford DBEs a full and fair opportunity to compete for City contracts at all levels.
- 1. DBE is defined in Document 00806, and further as used in this Document, means an entity acting as Subcontractor or Supplier, even if certified by another agency, whether proposed or subcontracted, whether as original or replacement DBE, which is certified as a DBE by City of Houston Office of Business Opportunity (OBO/Affirmative Action Division"), except:
- 2. Director of Affirmative Action ("Director/OBO") will consider priority certification of non-certified entities in cases where the apparent Low Bidder proposes entities for specific capabilities not found among at least 3 DBEs.
- B. Summary of Policy Elements:
- 1. Contractor agrees to ensure that DBEs have full and fair opportunity to participate in performance of City contracts, and to make Good Faith Efforts to meet the Goal.
- 2. Contractor, Subcontractors and Suppliers shall not discriminate on the basis of race, color, religion, national origin or sex in the performance of City contracts.

- 3. Contractor's performance in meeting the Goal will be monitored by Affirmative Action Division, including site visits, reviewing records and reports, and interviewing randomly selected personnel.
- C. The percentage goal for DBE participation ("Goal") for this Contract is stated in Document 00801.
- 1.04. BIDDER/CONTRACTOR AND DBE RESPONSIBILITIES
- A. Prior to Bid submission: Verify proposed DBEs are certified prior to bid date.
- B. Prior to Award:
- 1. Submit documents following Paragraph 1.02. Failure to properly submit documents may result in apparent low Bidder being considered non responsive and second Low Bidder being considered for award.
- a. Director/OBO will not unreasonably withhold approval of Good Faith Efforts.
- b. If Bidder fails to furnish Plan, or fails to document Good Faith Efforts, Bidder will be deemed non responsive and City Engineer will make recommendation to award the contract to second Low Bidder.
- 2. Designate an officer to administer the Plan and maintain records of Good Faith Efforts to subcontract with DBEs.
- 3. Execute a written contract with each DBE.
- C. After execution of the Agreement:
- 1. Follow the Plan or deviations therefrom approved by Director/OBO. Director/OBO may suspend Contractor for failure to make Good Faith Efforts to meet the Goal, or to suspend a DBE failing to make Good Faith Efforts to maintain DBE certification.
- 2. Submit Reports, following Paragraph 1.02.B.
- 3. Upon approval by Director/OBO, make Good Faith Efforts to replace a DBE displaced for any reason, with another DBE.
- D. Eligibility of DBEs:
- 1. Contact Affirmative Action Division (713/658 3800) regarding certifications.

- 2. Affirmative Action Division maintains, publishes and distributes the Minority and Women Disadvantaged Business Enterprise Directory ("Directory"). Contractor is not limited to use of listed DBEs, and is encouraged to solicit subcontractors and suppliers from other sources and direct them to apply for DBE certification.
- E. DBE participation shall be counted toward meeting the Goal as follows:
- 1. The total dollar value of each DBE, after being certified as a DBE, is counted toward the Goal.
- 2. When Contractor or Subcontractor or Supplier organizes as a joint venture with one or more members to satisfy the Goal, the Director/OBO shall determine the percent of participation resulting from the joint venture accountable toward the Goal.
- 3. Contractor may count toward the Goal only DBEs performing Commercially Acceptable Function in work of the Contract, as defined in Document 00806.
- 4. Subcontract at least 50 percent of the Goal to DBE Subcontractors.
- 5. Contractor may count 100 percent of DBE Supplier participation toward the Goal; however, DBE Supplier contracts shall not exceed 50 percent of the Goal.
- H. Records and Reports:
- 1. Submit Reports following Paragraph 2.A.
- 2. Maintain the following records for review by Affirmative Action Division upon request:
- a. Copy of subcontracts and purchase orders as executed.
- b. Documentation of payments to and other transactions with DBEs.
- c. Explanation of changes/replacements of DBEs, with other DBEs.
- 3. If the Goal is not being met, include in Reports a narrative description of progress being made in DBE participation. If sufficient DBEs to meet the Goals are being utilized, identify them by name and the dollar amount paid to date for work performed or products furnished by each DBE during the monthly period. Submit reports even when no activity occurs during a monthly period.

1.05 CONTRACTOR GOOD FAITH EFFORTS

A. If Contractor fails to meet or exceed the Goal set for the Contract, Affirmative Action Division will review documentation of Good Faith Efforts made by Contractor to meet the Goal.

- B. Burden of establishing minimum Good Faith Efforts is entirely upon Contractor and any determination made by Affirmative Action Division that minimum Good Faith Efforts were not made is appealable to City Council.
- C. Contractor shall submit to Affirmative Action Division, a detailed, acknowledged statement, in writing, with documentation attached, explaining in what ways Contractor complied with the following minimum standards for Good Faith Efforts:
- 1. Delivery of written notice to all applicable categories of local DBEs identified in the Directory, to contracting groups and media focused toward minorities and women on a list furnished by Affirmative Action Division, and to any local DBEs who requested information on the project. The notice shall contain:
- a. Adequate information about the scope of the Work, Drawings, Project Manual, and requirements of the Proposal;
- b. Identification of a person within the firm's office to answer questions.
- 2. Division of the Work into small, economically feasible segments which could be performed by DBEs, as recommended by Director of Aviation.
- 3. Provision of an explanation to any DBE whose bid is rejected, unless another DBE is accepted for the same work, as follows:
- a. Where price competitiveness is not the reason, a written rejection notice shall include the reason for rejection;
- b. Where price competitiveness is the reason, a meeting shall be held, if requested, with the price rejected DBE to discuss the rejection.

END OF DOCUMENT

City of Houston, Office of Business Opportunity DBE Monthly Utilization Report for HAS Projects Report Period: ______ through ______

| PROJECT NAME: | HOU Central Flooring Replacement Phase II | Date of Report: | |
|-------------------|---|--------------------------|------|
| PROJ/CIP/AIP No: | 957 | Contract No.: | |
| PRIME CONTRACTOR: | | Date of Commencement: | |
| ADDRESS: | | Est. Compl. Date: | |
| | | Contract Amount: \$ | |
| PHONE NUMBER: | | DBE Goal (6%): | TBD% |
| | | Est. % of Job Completed: | |

| SUBCONTRACTOR OR SUPPLIER | DATE OF AA CERTIFICATION | DATE OF SUBCONTRACT | POTENTIAL SUBCONTRAC T AMOUNT | SCHEDULED % OF CONTRACT PARTICIPATION | AMOUNT PAID THIS PERIOD | AMOUNT PAID TO DATE | % OF CONTRACT TO DATE |
|------------------------------|-----------------------------|------------------------|--|---------------------------------------|----------------------------------|---------------------------|-----------------------------|
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| TOTALS | | | | | | | |

Make as many copies of this page as required to list all DBE participation.

Submit the original of this report by the 25th day following the report period to Houston Airport System, Office of Business Opportunity: 18600 Lee Road, Suite 131, Humble, Texas 77338, and one copy to City Engineer at HAS.

Provide support documentation on all revenues paid to DBE Subcontractors/Suppliers, to reflect all up/down variances in Contract amount.

DOCUMENT 00811 - FAA

WAGE SCALE FOR BUILDING CONSTRUCTION FOR PROJECTS FUNDED BY AIP

- 1.01 Following 29 CFR 5.5 (a) (1) (v), use the rates listed on the Wage Determination Attachment for minimum wage and benefits for the labor classifications applicable to the Work.
- 1.02 These rates do not prohibit payment of more than the rates stated.
- 1.03 Apply rates in this Document 00811 to work on a building including an area within five (5) feet of the exterior wall.
- 1.04 The Contractor shall submit the "Certificate form Contractor Appointing Officer or Employee to Supervise Payment of Employees" (Exhibit "B") to the Monitoring Authority listed in Document 00495 prior to final execution of the contract.
- 1.05 During the course of the work, Subcontractors shall submit the "Certificate form Subcontractor Appointing Officer or Employee to Supervise Payment of Employees" (Exhibit "C") to the Monitoring Authority listed in Document 00495.
- 1.06 Contractor and Subcontractors will submit payrolls electronically to the Department through the online reporting system unless told otherwise by the Office of Business Opportunity.

Projected Wage Determination Publication Date:

[August 5, 2022 (or Later)]

for

General Decision Number **TX20220253 08/05/2022**Superseding General Decision Number **TX20210253**

State: TEXAS

Construction Type: BUILDING

County: Harris County in Texas

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to & including 4 stories). (Use current highway general wage determination for paving & utilities incidental to Building Construction for Harris County

| Modification Number: | Publication Date: |
|----------------------|-------------------|
| 0 | 01/07/2022 |
| 1 | 01/21/2022 |
| 2 | 02/18/2022 |
| 3 | 02/25/2022 |
| 4 | 03/11/2022 |
| 5 | 04/22/2022 |
| 6 | 07/08/2022 |

08/05/2022

EXHIBIT "A"

WAGE DETERMINATION ATTACHMENT:

"General Decision Number: TX20220253 08/05/2022 Superseded General Decision Number: TX20210253

State: Texas

Construction Type: Building County: Harris County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family

homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

| If the contract is entered | . Executive Order 14026 |into on or after January 30, | generally applies to the |2022, or the contract is | contract. |renewed or extended (e.g., an |. The contractor must pay |option is exercised) on or | all covered workers at |after January 30, 2022:

- | least \$15.00 per hour (or | the applicable wage rate | listed on this wage | determination, if it is | higher) for all hours | spent performing on the | contract in 2022.

| If the contract was awarded on | . Executive Order 13658 or between January 1, 2015 and generally applies to the |January 29, 2022, and the | contract. |contract is not renewed or |. The contractor must pay all| |extended on or after January | covered workers at least |30, 2022:

- | \$11.25 per hour (or the | applicable wage rate listed| on this wage determination, | if it is higher) for all | hours spent performing on | that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

| conformance request. Additional information on contra protections under the Executive https://www.dol.gov/agencies/whd Modification Number Publicat 0 01/07/2 1 01/21/2 2 02/18/2 3 02/25/2 4 03/11/2 5 04/22/2 6 07/08/2 7 08/05/2 ASBE0022-009 06/01/2021 | Orders is avail /government-cor ion Date 022 022 022 022 022 022 022 | able at |
|---|---|-----------------------|
| ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and | Rates | Fringes |
| Mechanical System Insulation) | .\$ 25.14 | 15.15 |
| BOIL0074-003 01/01/2021 BOILERMAKER | Rates .\$ 29.47 | Fringes 24.10 |
| CARP0551-008 04/01/2021 | Rates | Fringes |
| CARPENTER (Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work and Metal Stud Installation) | .\$ 25.86 | 9.08 |
| ELEC0716-005 08/30/2021 | Rates | Fringes |
| ELECTRICIAN (Excludes Low Voltage Wiring and Installation of Alarms) | .\$ 33.20 | 10.37 |
| ELEV0031-003 01/01/2022 | | |
| ELEVATOR MECHANIC | Rates .\$ 47.04 | Fringes 36.885+a+b |
| A. 6% under 5 years based on r hours worked. 8% over 5 years for all hours worked. | | |
| B. Holidays: New Year's Day; M Labor Day; Thanksgiving Day; F Christmas Day; and Veterans Da | riday after Tha | |
| ENGI0450-002 04/01/2014 | Rates | Fringes |
| POWER EQUIPMENT OPERATOR Cranes | | 9.85 |
| | | |

00811-1 08-05-2022

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

| * IRON0084-001 06/01/2022 | Dalas | To the same |
|---|-------------------|-------------------------|
| IRONWORKER, STRUCTURAL | Rates \$ 26.76 | Fringes 7.88 |
| * IRON0084-012 06/01/2022 | | |
| GLAZIER | | Fringes 7.12 7.88 |
| PLAS0783-001 04/01/2021 | | |
| PLASTERER | Rates \$ 26.04 | Fringes 9.02 |
| PLUM0068-002 10/01/2021 | | |
| PLUMBER | | Fringes 11.71 |
| PLUM0211-010 10/01/2021 | | |
| PIPEFITTER (Including HVAC | Rates | Fringes |
| Pipe Installation) | \$ 37.03 | 12.56 |
| SFTX0669-002 04/01/2021 | Rates | Fringes |
| SPRINKLER FITTER (Fire Sprinklers) | | 22.50 |
| SHEE0054-006 04/01/2020 | | |
| SHEET METAL WORKER Excludes HVAC Unit | Rates | Fringes |
| Installation | | 13.85 13.85 |
| * SUTX2014-029 07/21/2014 | | |
| ACOUSTICAL CEILING MECHANIC | Rates \$ 17.27 | Fringes 3.98 |
| BRICKLAYER | \$ 18.87 | 0.00 |
| CAULKER | \$ 15.36 | 0.00 |
| CEMENT MASON/CONCRETE FINISHER | \$ 13.93 ** | 0.00 |
| DRYWALL FINISHER/TAPER | \$ 16.27 | 3.66 |
| DRYWALL HANGER AND METAL STUD INSTALLER | \$ 17.44 | 3.93 |
| ELECTRICIAN (Alarm Installation Only) | \$ 17.97 | 3.37 |

| HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957 | WAGE SCALE FOR BUILDING / FAA |
|--|----------------------------------|
| ELECTRICIAN (Low Voltage Wiring Only)\$ 18.00 | 1.68 |
| FLOOR LAYER: Carpet\$ 20.00 | 0.00 |
| FORM WORKER\$ 12.77 ** | 0.00 |
| INSULATOR - BATT\$ 14.87 ** | 0.73 |
| IRONWORKER, REINFORCING\$ 12.14 ** | 0.00 |
| LABORER: Common or General\$ 11.76 ** | 0.00 |
| LABORER: Mason Tender - Brick\$ 13.47 ** | 0.00 |
| LABORER: Mason Tender - Cement/Concrete\$ 10.48 ** | 0.00 |
| LABORER: Pipelayer\$ 12.94 ** | 0.00 |
| LABORER: Roof Tearoff\$ 11.28 ** | 0.00 |
| LABORER: Landscape and Irrigation\$ 9.52 ** | 0.00 |
| LATHER\$ 19.73 | 0.00 |
| OPERATOR: Backhoe/Excavator/Trackhoe\$ 13.94 ** | 0.00 |
| OPERATOR: Bobcat/Skid Steer/Skid Loader\$ 13.93 ** | 0.00 |
| OPERATOR: Bulldozer\$ 22.75 | 0.00 |
| OPERATOR: Drill\$ 16.22 | 0.34 |
| OPERATOR: Forklift\$ 16.00 | 0.00 |
| OPERATOR: Grader/Blade\$ 13.37 ** | 0.00 |
| OPERATOR: Loader\$ 13.55 ** | 0.94 |
| OPERATOR: Mechanic\$ 17.52 | 3.33 |
| OPERATOR: Paver (Asphalt, Aggregate, and Concrete)\$ 16.03 | 0.00 |
| OPERATOR: Roller\$ 16.00 | 0.00 |
| PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping\$ 17.24 | 4.41 |

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HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

WAGE SCALE FOR BUILDING / FAA

| ROOFER\$ 15.40 | 0.00 |
|--|------|
| SHEET METAL WORKER (HVAC Unit Installation Only)\$ 20.05 | 2.24 |
| TILE FINISHER\$ 12.00 ** | 0.00 |
| TILE SETTER\$ 16.17 | 0.00 |
| TRUCK DRIVER: 1/Single Axle Truck\$ 14.18 ** | 0.00 |
| TRUCK DRIVER: Dump Truck\$ 12.39 ** | 1.18 |
| TRUCK DRIVER: Flatbed Truck\$ 19.65 | 8.57 |
| TRUCK DRIVER: Semi-Trailer Truck\$ 12.50 ** | 0.00 |
| TRUCK DRIVER: Water Truck\$ 12.00 ** | 4.11 |
| WATERPROOFER\$ 14.39 ** | 0.00 |

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

https://www.dol.gov/agencies/whd/government-contracts. Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier. Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II PN 957

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W.

Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISIO"

EXHIBIT "B"

CERTIFICATE FROM CONTRACTOR APPOINTING OFFICER OR EMPLOYEE TO SUPERVISE PAYMENT OF EMPLOYEES

| Project Name | |
|--|--|
| Project WBS#: | |
| (I) (We) hereby certify that (I am) (we | are) the prime Contractor for |
| payment of (my) (our) employees beg position to have full knowledge of the f of compliance required by the Copelar with (my) (our) full authority and appro | (Specify type of job) above-mentioned Project, and that (I) (we) have appointed, whose signature appears below, to supervise the inning, 20; that he/she is in a facts set forth in the payroll documents and in the statement Act and the City of Houston, which he/she is to execute oval until such time as (I) (we) submit to the City of Houston er person for the purposes hereinabove stated. Phone: |
| Attest: | (Name of Firm or Corporation) |
| By:(Signature) | By:(Signature) |
| (Title) | (Title) |

NOTE: This certificate must be executed by an authorized officer of a corporation or by a member of a partnership and shall be executed prior to and be submitted with the first payroll. Should the appointee be changed, a new certificate must accompany the first payroll for which the new appointee executes a statement of compliance required by the Copeland Act and the City of Houston.

EXHIBIT "C"

CERTIFICATE FROM SUBCONTRACTOR APPOINTING OFFICER OR EMPLOYEE TO SUPERVISE PAYMENT OF EMPLOYEES

| Project Name | |
|---|--|
| Project WBS#: | |
| (I) (We) hereby certify that (I a | m) (we are) the prime Contractor for |
| | (Specify type of job) n of the above-mentioned Project, and that (I) (we) have appointed _, whose signature appears below, to supervise the |
| payment of (my) (our) employed position to have full knowledge of compliance required by the with (my) (our) full authority are | ees beginning, 20; that he/she is in a e of the facts set forth in the payroll documents and in the statement Copeland Act and the City of Houston, which he/she is to execute ad approval until such time as (I) (we) submit to the City of Houston ome other person for the purposes hereinabove stated. |
| | Phone: |
| (Identifying Signate | ure of Appointee) |
| Attest: | (Name of Firm or Corporation) |
| By:(Signature) | By:(Signature) |
| (Title) | (Title) |

NOTE: This certificate must be executed by an authorized officer of a corporation or by a member of a partnership and shall be executed prior to and be submitted with the first payroll. Should the appointee be changed, a new certificate must accompany the first payroll for which the new appointee executes a statement of compliance required by the Copeland Act and the City of Houston.

END OF DOCUMENT

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Pay or Play Program Operating Procedures

Background

The Pay or Play Program was established with Ordinance 2007-534 on July 1, 2007 and is governed by Executive Order 1-7. The Pay or Play Program (POP) creates a more level playing field and enhances fairness in the bid process between competing contractors that choose to offer health benefits to their workforce and those who do not. The program also recognizes and accounts for the fact that there are costs associated with providing health care for the uninsured citizens of Houston and Harris County area.

Administration:

- Vendors are required to begin complying with POP within 30 days of contract award by utilizing the designated system, B2G Workforce Module, at https://houston.mwdbe.com to complete/review POP activities.
- Vendors are required to utilize JP Morgan Chase Pay Connexion (Pay Connexion)
 portal that will accept POP payments electronically. B2G Workforce Module will
 provide a direct link to Pay Connexion where contractors may submit payment via
 Debit Card, Credit Card, Automated Clearing House (ACH) and/or Electronic Checks
 (e-checks). Contractors will be charged a convenience fee per transaction.
- Vendors who onboard new employees are allowed a 60-day waiting period upon each new employee's start date to begin participating in POP. After the 60-day period has lapsed, Vendor must include the employee in POP reporting.
- The Office of Business Opportunity (OBO) has citywide administrative oversight of the program, including audit responsibilities. Vendor's compliance with POP requirements will be directly managed by the City Department with whom Vendor has contracted (Contracting Department). Questions about POP should be referred to the Contracting Department's POP Liaison. A contact list for POP Liaisons is available at http://www.houstontx.gov/obo/popforms.html or by contacting the OBO POP Administrator at 832-393-0633 or Brianne.Maxwell@houstontx.gov.





Pre-bid/Pre-Proposal Forms:

- Vendors must complete and return the following forms before contract award by the Contracting Department:
 - o Acknowledgment Form (POP-1)
 - Certification of Compliance (POP-2)
 - Participating Subcontractors Form (POP-3)

Prime/Subcontractor Waiver Request (Form POP-4):

- Completed by Contracting Department prior to City Council approval contract award, for contract(s) that may meet exemption criteria as stated in EO 1-7. Form POP-4 must be signed by Contracting Department and forwarded, along with supporting documentation, to OBO POP Administrator for final decision.
- A new Form POP-4 is not needed for contract amendments and/or extensions, as the POP requirements in the original contract continues to apply.
- Contractors that utilize self-employed, owner/operator individuals to complete services (e.g., Truck Drivers, Day Laborers, 10-99, etc.) are POP exempt.
- Vendors should not submit a Form POP-4 for contracts enumerated in section 4.2 of EO 1-7, as those contracts are not covered under POP.

Pay Option Reporting (Workforce Audit):

- Vendors will create a Workforce Employee List showcasing all active employees
 working on the City of Houston project. Vendors will complete a weekly workforce
 audit by the end of each month. Vendors must provide the Total Hours Worked and
 individual Hours Worked by each covered employee as part of the weekly workforce
 audit.
 - o Total Hours Worked = Total Number of Hours Employee worked for Employer.
 - Hours Worked = Total Number of Hours Employee worked on COH project.

Invoice Submission:

 Invoices are created from monthly Workforce Audits reports. Payments are due to the contracting department 30 business days after receipt of invoice. Payments





may be made through the *Pay Connexion*. Prime Vendor is responsible to the City for compliance of covered employees of covered subcontractors.

- Vendors will "Pay" by contributing \$1.00 per covered employee per regular hour for work performed under the contract with the City, not to exceed \$40.00 per employee.
 - POP will not accept partial payments; invoices must be paid in full.

Play Option Reporting (Workforce Audit):

- Vendors will create a Workforce Employee List showcasing all active employees working on the City of Houston project.
- Vendors will complete a quarterly workforce audits by month end of October, January,
 April, and July by providing proof of insurance for all active and covered employees
 for previous three (3) months.
- Vendors will "Play" by providing health benefits to covered employees. Health benefits must meet or exceed the following standards:
 - The employer will contribute no less than 75% of the monthly premium toward the total premium cost covered employee per month.
 - The employee contribution, if any amount, will be no greater than 25% of the monthly premium cost.

Note: Proof of coverage (in the form of the most current Company Insurance invoice or individual employee insurance card) for POP covered employees that work on the City Project.

Employee Waiver Request (Form POP-8):

- Vendor may request employee POP program waiver by submitting a request on the
 City of Houston Pay or Play (POP) Employee Waiver Request (Form POP-8); if a
 covered employee has refused health coverage through their employee or if a covered
 employee has acquired health coverage on their own.
 - Vendor will attach approved Form POP-8 to respective employees' workforce profile in the designated system.





Self-Insured Contractor Request (Form POP-9):

- Vendor may request for Self-Insured Status if the employer is using their own money to cover their employees' claims.
- Vendors awarded Self-Insured Status will be PLAY participants and required to report once a year.

SECTION 01110 SUMMARY OF WORK

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. Project description.
 - B. Work description.
 - C. City occupancy.
 - D. Contractor-salvaged products.
 - E. Separate contracts and work by City.
 - F. Extra copies of Contract Documents.
 - G. Permits, fees and notices.
- 1.02 THE PROJECT

The Project is the George Bush Intercontinental Airport/ Houston in Houston, Texas.

- 1.03 GENERAL DESCRIPTION OF THE WORK
 - A. Construct the Work under a single general construction contract as follows: **HOU CENTRAL CONCOURSE FLOORING REPLACEMENT PHASE II**, Project No. 957.
 - B. Construct the Work in a single stage following Section 01326 Construction Sequencing.
 - C. Not used
 - D. The Work is summarized as **HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II**.
 - 1. Project includes installation of engineered stone tile (Quartz Tile) flooring over existing terrazzo flooring at the Central Concourse level. Floor finish material to match existing recently installed tile at east and west passenger gates. Preparation of floor to receive custom cut quartz tile flooring following pattern shown on drawings.

- E. Contract limit lines are shown diagrammatically on Drawings.
- F. The construction budget for this construction project is \$1,500,000.00.

1.04 CITY OCCUPANCY

The City will occupy the site and remain in operation during the entire period of construction.

- A. Cooperate with the City to reduce conflict, and to facilitate the City's operations. Coordinate Contractor's activities with City Operations or Maintenance personnel through City Engineer.
- B. Schedule Work to fit these requirements.
- 1.05 CONTRACTOR-SALVAGED PRODUCTS (CSP) (NOT USED)
- 1.06 SEPARATE CONTRACTS AND WORK BY CITY (NOT USED)
- 1.07 EXTRA COPIES OF CONTRACT DOCUMENTS

Use reproducible documents, furnished by City following Document 00700 Paragraph 2.2.2, to make extra copies of Contract Documents (diazo prints of Drawings and electrostatic copies of Project Manual) as required by Contractor for construction operations, and for Contractor's records following Sections 01726 - Base Facility Survey and 01770 - Contract Closeout. Follow Document 00700 Paragraph 1.3.

1.08 PERMITS, FEES AND NOTICES

Refer to Document 00700 Paragraph 3.14. Reimburse City for City's payment of fines levied against City or its employees because of Contractor's failure to obtain proper permits, pay proper fees, and make proper notifications. Reimbursement will be by Change Order, reducing the Contract Price as based upon the dollar amount of fines imposed.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01145 CONTRACTOR'S USE OF PREMISES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Rights-of-way and access to the Work.
- B. Property and Base Facility outside contract limits.
- C. General requirements for exterior work.
- D. Work in AOA, including electrical lockout/tagout program.
- E. Interior work.
- F. Control of access into security areas.

1.02 SUBMITTALS

- A. Show start dates and duration of closures and impediments on construction schedule following Section 01325 Construction Schedules.
- B. Prepare written requests, using Document 00931 Request for Information, and submit requests at least 7 days before access is required, for following:
 - 1. Roadway, street, driveway, curbside and building main entrance/exit closures or impediments. Do not close or impede emergency exits intended to remain.
 - 2. Access to property outside contract limits, required to extend or connect work to utilities or environmental system controls in non-contract areas.
- C. For work involving electrical energy or other hazardous energy sources, submit a Lockout/Tagout Program.

1.03 RIGHTS-OF-WAY AND ACCESS TO THE WORK

- A. Confine access and operations and storage areas to contract limits and other areas provided by City, following Document 00700. Do not trespass on non-City-owned property or on airport occupants' spaces.
- B. Airport operates "around the clock." In cases of conflicts with construction operations, airport operations take precedence. Airport roads, streets, drives, curbsides and sidewalks, and ticketing, baggage claim, security check points, concessions, restrooms, aircraft gates

CONTRACTOR'S USE OF PREMISES

and similar passenger-related areas are intended for year-round uninterrupted use and access by the public and airport operations. Maintain uninterrupted traffic movement.

- 1. Aircraft and emergency vehicles have right-of-way in AOA.
- 2. Private vehicles, public transportation and emergency vehicles have right-of-way on roads, streets, driveways and curbsides.
- 3. Passengers have right-of-way in public spaces. Occupants have right-of-way in other occupied areas.
- C. Follow instructions of the City Engineer, Airport Manager and of ATCT. Follow FAA procedures.
- D. FAA will review Contractor's submittals for compliance with FAA requirements. Attend meetings with FAA to assist the City Engineer in obtaining approvals.
- E. Continued violations of or flagrant disregard for policies may be considered default, and individuals disregarding requirements may be determined as objectionable by the City Engineer, following provisions of Document 00700.

Do not close or impede rights-of-way without City Engineer approval.

- F. City Engineer may approve temporary storage of products, in addition to areas shown on Drawings, and other on-airport areas if storage piles do not interfere with airport operations.
 - 1. No permission will be granted for this type of storage in Terminal roadway areas.
 - 2. Restrict permitted storage along runways, taxiways and aprons to 500 lineal feet, 3 feet high and no closer than 100 feet to pavement.

1.04 PROPERTY AND BASE FACILITY OUTSIDE CONTRACT LIMITS

- A. Do not alter condition of property or Base Facility outside contract limits.
- B. Means, methods, techniques, sequences, or procedures which may result in damage to property outside of contract limits are not permitted.
- C. Repair or replace damage to property outside contract limits to condition existing at start of the Work, or better.

1.05 GENERAL REQUIREMENTS FOR EXTERIOR WORK

A. Obtain permits and City Engineer's approval prior to impeding or closing roadways, streets, driveways, Terminal curbsides and parking areas.

- B. Maintain emergency vehicle access to the Work and to fire hydrants, following Section 01505 Temporary Facilities.
- C. Do not obstruct drainage ditches or inlets. When obstruction is unavoidable due to requirements of the Work, provide grading and temporary drainage structures to maintain unimpeded flow.
- D. Locate by Section 01726 Base Facility Survey and protect by Section 01505 Temporary Facilities which may exist. Repair or replace damaged systems to condition existing at start of Work, or better.
- E. Public, Temporary, and Construction Roads and Ramps:
 - 1. Construct and maintain temporary detours, ramps, and roads to provide for normal public traffic flow when use of public roads or streets is closed by necessities of the Work.
 - 2. Provide mats or other means to prevent overloading or damage to existing roadways from tracked equipment or exceptionally large or heavy trucks or equipment.
 - 3. Construct and maintain access roads and parking areas following Section 01505 Temporary Facilities.
- F. Excavation in Streets and Driveways:
 - 1. Do not hinder or needlessly impede public travel on roadways, streets or driveways for more than two blocks at any one time, except as approved by City Engineer.
 - 2. Obtain the City Traffic Management and Maintenance Department and City Engineer's approval when the Work requires closing of off-airport roadways, streets or driveways. Do not unnecessarily impede abutting property.
 - 3. Remove surplus materials and debris and open each block for public use as work in that block is complete. Acceptance of any portion of the Work will not be based on return of street to public use.
 - 4. Provide temporary crossings, or complete work in one continuous operation. Minimize duration of obstructions and impediments at drives or entrances.
- G. Provide barricades and signs following Sections 01505 Temporary Facilities and 01507
 Temporary Signs.
- H. Traffic Control: Follow Section 01555 Traffic Control and Regulation.
- I. Surface Restoration:

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 CONTRACTOR'S USE OF PREMISES

- 1. Restore site to condition existing before construction, following Section 01731 Cutting and Patching, to satisfaction of City Engineer.
- 2. (Not Used.)
- 1.06 WORK IN AOA (NOT USED)
- 1.07 GENERAL REQUIREMENTS FOR INTERIOR WORK (NOT USED)
- 1.08 CONTROL OF SECURITY AREA ACCESS (NOT USED)
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

CONTRACTOR'S USE OF PREMISES

01145-4 ver. 12.15.17

SECTION 01210 CASH ALLOWANCES

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. City's allowances allocated to the items of work listed or as directed.
 - B. See Document 00700 General Conditions, Paragraph 3.11 for costs included and excluded from cash allowance values listed in 1.02 below.
 - C. Follow Section 01255 Modification Procedures for processing allowance expenditures. Cash Allowance sums remaining at Final Completion belong to the City, creditable by Change Order.
- 1.02 SCHEDULE OF CASH ALLOWANCES (TOTAL \$6,000.00)
 - A. Allowance Item 1 Building Permit: For obtaining the Building Permit from City of Houston, \$ 6,000.00.
 - B. Allowance Item 2 Tile Procurement and Fabrication, \$880,000.00.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01255 MODIFICATION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Signatories on behalf of City and Contractor.
- B. Contractor's documentation.
- C. Change Orders
- D. Requests for Proposal.
- E. Work Change Directives.
- F. Execution of Modifications.
- G. Resolving Discrepancies.
- H. Requests for Information or Clarification.
- I. Correlation of Submittals.

1.02 SIGNATORIES

A. Submit at the Preconstruction Conference (Section 01312 - Coordination and Meetings) a letter indicating the name and address of Contractor's personnel authorized to execute Modifications, and with responsibility for informing others in Contractor's employ or Subcontractors of same.

1.03 REFERENCES

- A. Blue Book: "Dataquest" Rental Rate Blue Book for Construction Equipment.
- B. Rental Rate: The full unadjusted base rental rate for the applicable item of equipment.

MODIFICATION PROCEDURES

1.04 CONTRACTOR'S DOCUMENTATION

- A. Maintain detailed records of changes in the Work. Provide full information required for identification and evaluation of proposed changes, and to substantiate costs of changes in the Work.
- B. Furnish sufficient data to allow City Engineer's evaluation of Contractor's responses to proposed changes.
- C. Include with each proposal the following minimum information (as applicable to form of Contract Price):
 - 1. Quantities of original Bid Schedule unit price work items (with additions, reductions, deletions, and substitutions).
 - 2. When work items are not included in Document 00410 Bid Tabulation Form, provide unit prices for the new items, with proper supporting information.
 - 3. For Stipulated Price changes, furnish breakdown of labor, products, taxes, insurance, bonds, temporary facilities and controls as applicable, and overhead and profit.
 - 4. Justification for change, if any, in Contract Time.
 - 5. Additional data upon request.
- D. Payment for rented equipment will be made to the Contractor by actual invoice cost for the duration of time required to complete additional work. If additional work comprises only a portion of the rental invoice where the equipment would otherwise be on the site, compute the hourly equipment rate by dividing the actual monthly invoice by 176. (One day equals 8 hours and one week equals 40 hours.) Operating costs shall not exceed the estimated operating costs given for the item of equipment in the Blue Book.
- E. For changes in the Work performed on a time-and-materials basis using Contractor-owned equipment, compute rates with the Blue Book as follows:
 - 1. Multiply the appropriate Rental Rate (the lowest cost combination of hourly, daily, weekly or monthly rates) by an adjustment factor of 70 percent plus the full rate shown for operating costs. Use 150 percent of the Rental Rate for double shifts (one extra shift per day) and 200 percent of the Rental Rate for more than two shifts per day. No other rate adjustments apply.
 - 2. Standby Rates: 50 percent of the appropriate Rental Rate shown in the Blue Book. Operating costs are allowed.

1.05 CHANGE ORDERS

- A. Changes to Contract Price or Time are made only by execution of a Change Order.
- B. Stipulated Price Change Order: Stipulated Price Change Orders are based on an accepted Proposal/Contract Modification including the Contractor's lump sum price quotation.

C. Unit Price Change Order:

- 1. Where Unit Prices for the affected items of Work are included in Document 00410 Bid Tabulation Form, Unit Price Change Orders are based on unit prices as originally bid, subject to requirements in Articles 7 and 9 of Document 00700 General Conditions.
- 2. Where unit prices of Work are not pre-determined in Document 00410 Bid Tabulation Form, Request for Proposal or Work Change Directive will state the unit prices to use.

D. Time-And-Material Change Order:

- 1. Provide an itemized account and supporting data after completion of change, within time limits indicated for claims in Document 00700 General Conditions.
- 2. City Engineer will determine the change allowable in Contract Price and Contract Time following Document 00700 General Conditions.
- 3. For changes in the Work performed on a time-and-material basis, furnish the following in addition to information specified in Paragraph 1.04.C:
 - a. Quantities and description of products and tools.
 - b. Taxes, insurance and bonds.
 - c. Overhead and profit, following Document 00700 General Conditions Paragraphs 7.3.2.2.6 or Document 00800 Supplementary Conditions.
 - d. Dates and times of work performance, and by whom.
 - e. Time records and certified copies of applicable payrolls.
 - f. Invoices and receipts for products, rented tools, and Subcontracts, similarly documented.
- E. Major Unit Price Change Order: (NOT USED)

1.06 REQUEST FOR PROPOSAL

A. City Engineer may issue a Request for Proposal, including a detailed description of proposed changes, supported by revised Drawings and Specifications, if applicable. Prepare and

submit Contractor's response to the Request for Proposal within 7 days or as specified in the request.

- B. This document does not authorize work to proceed.
- C. Follow instructions on back of the Request for Proposal.

1.07 WORK CHANGE DIRECTIVE (WCD)

- A. City Engineer may issue a WCD instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
- B. City Engineer may issue minor changes in the Work, not involving an adjustment to Contract Price or Time by using a WCD.
- C. The document will describe changes in the Work and will designate a method of determining change, if any, in Contract Price or Time. When properly executed, this document authorizes work to proceed. Follow instructions on back of the WCD.
- D. Promptly execute changes in the Work following the directions from the Work Change Directive.

1.08 RESOLVING DISCREPANCIES

- A. Complete Base Facility survey following Section 01726 Base Facility Survey prior to preparation of submittal data and commencing main construction operations. Submit survey data of inaccessible concealed conditions as cutting and patching or demolition operations proceed.
- B. Prepare and submit a Request for Information for each separate condition with a written statement of substantive discrepancies, including specific scope, location and discrepancy discovered.
- C. Based upon the Contractor's knowledge of Base Facility conditions "as-found" and the requirements for the Work, propose graphic or written alternatives to Drawings and Specifications to correct discrepancies. Include as supplementary data to the Request for Information.
- D. Modifications due to concealed conditions are allowed only for conditions which are accessible only through cutting or demolition operations.
 - 1. No changes in the Contract Sum or Time are permitted for sight-exposed conditions or conditions visible by entry into access doors or panels and above lay-in or concealed

spline acoustical ceilings, or by conditions described in Documents 00320 - Geotechnical Information or 00330 - Existing Conditions.

1.09 REQUEST FOR INFORMATION OR CLARIFICATION

- A. The Request for Information or Clarification does not authorize work that changes the Contract Price or Time.
- B. Request clarification of Contract Documents or other information by using the Request for Information or Clarification.
 - 1. If additional work is required, then the requirement will be requested by the City Engineer's issuance of a Request for Information or Clarification; Request for Proposal; Work Change Directive.
 - 2. This document does not authorize work to proceed.
- C. Changes may be proposed by the Contractor only by submitting a Request for Information following Paragraph 1.08.
- D. The City Engineer may issue minor changes in the Work, not involving an adjustment to Contract Price or Time using a Request for Information or Clarification and following Document 00700 General Conditions.
- E. Follow directions on back of the Request for Information or Clarification.

1.10 CORRELATION OF SUBMITTALS

- A. For Stipulated Price Contracts, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Price, following Section 01290 Payment Procedures.
- B. For Unit Price Contracts, revise the next monthly estimate of work after acceptance of a Change Order to include new items not previously included and the appropriate unit rates.
- C. Promptly revise progress schedules to reflect any change in Contract Time, revise schedules to adjust time for other items of work affected by the change and resubmit for review following Section 01325 Construction Schedules.
- D. Promptly record changes on record documents following Section 01770 Contract Closeout.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01270 MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for measurement and payment plus conditions for nonconformance assessment and nonpayment for rejected Products.

1.02 AUTHORITY

- A. Measurement methods delineated in Specification Sections are intended to complement criteria of this Section. In event of conflict, requirements of the Specification Section shall govern.
- B. Project Manager will take all measurements and compute quantities accordingly.
- C. Assist by providing necessary equipment, workers, and survey personnel
- D. Measurement and Payment paragraphs are included only in those Specification Sections of Division 01, where direct payment will be made. Include costs in the total bid price for those Specification Sections in Division 01 that do not contain Measurement and Payment paragraphs.

1.03 UNIT QUANTITIES SPECIFIED

- A. Quantity and measurement estimates stated in the Agreement are for contract purposes only. Quantities and measurements supplied or placed in the Work and verified by Project Manager will determine payment as stated in Article 9 of Document 00700 General Conditions.
- B. When actual work requires greater or lesser quantities than those quantities indicated in Document 00410 Bid Form, provide required quantities at Unit Prices contracted, except as otherwise stated in Article 9 of Document 00700 General Conditions.

1.04 MEASUREMENT OF QUANTITIES

A. Measurement by Weight: Reinforcing Steel, rolled or formed steel or other metal shapes are measured by CRSI or AISC Manual of Steel Construction weights. Welded assemblies are measured by CRSI or AISC Manual of Steel Construction or scale weights.

MEASUREMENT AND PAYMENT

- B. Measurement by Volume:
 - 1. Stockpiles: Measured by cubic dimension using mean length, width, and height or thickness.
 - 2. Excavation and Embankment Materials: Measured by cubic dimension using average end area method.
- C. Measurement by Area: Measured by square dimension using mean length and width or radius.
- D. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
- E. Stipulated Price Measurement: By unit designation in the Agreement.
- F. Other: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of the Work.
- G. Measurement by Each: Measured by each instance or item provided.
- H. Measurement by Lump Sum: Measure includes all associated work.

1.05 PAYMENT

- A. Payment includes full compensation for all required supervision, labor, Products, tools, equipment, plant, transportation, services, and incidentals; and erection, application or installation of an item of the Work; and Contractor's overhead and profit.
- B. Total compensation for required Unit Price work shall be included in Unit Price bid in Document 00410 Bid Form. Claims for payment as Unit Price work, but not specifically covered in the list of Unit Prices contained in Document 00410 Bid Form, will not be accepted.
- C. Interim payments for stored materials will be made only for materials to be incorporated under items covered in Unit Prices, unless disallowed in Document 00800 Supplementary Conditions.
- D. Progress payments will be based on Project Manager's observations and evaluations of quantities incorporated in the Work multiplied by Unit Price.
- E. Final payment for work governed by Unit Prices will be made on the basis of actual measurements and quantities determined by Project Manager multiplied by the Unit Price for work which is incorporated in or made necessary by the Work.
- 1.06 NONCONFORMANCE ASSESSMENT

- A. Remove and replace work, or portions of the Work, not conforming to the Contract documents.
- B. When not practical to remove and replace work, City Engineer will direct one of the following remedies:
 - 1. Nonconforming work will remain as is, but Unit Price will be adjusted lower at discretion of City Engineer.
 - 2. Nonconforming work will be modified as authorized by City Engineer, and the Unit Price will be adjusted lower at the discretion of City Engineer, when modified work is deemed less suitable than specified
- C. Specification sections may modify the above remedies or may identify a specific formula or percentage price reduction.
- D. Authority of City Engineer to assess nonconforming work and identify payment adjustment is final.
- 1.07 NONPAYMENT FOR REJECTED PRODUCT
 - A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in an unacceptable manner.
 - 2. Products determined as nonconforming before or after placement.
 - 3. Products not completely unloaded from transporting vehicles.
 - 4. Products placed beyond lines and levels of required work.
 - 5. Products remaining on hand after completion of the Work, unless specified otherwise.
 - 6. Loading, hauling, and disposing of rejected Products.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

MEASUREMENT AND PAYMENT

SECTION 01290 PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Schedule of Values.
- B. Billing forecast.
- C. Value/ time log.
- D. Expenditure of Cash Allowances.
- E. Applications for Payment.
- F. Payment for mobilization work.
- G. Final payment.

1.02 DEFINITIONS

- A. Schedule of Values: Itemized list, prepared by the Contractor, establishing the value of each part of the Work for a Stipulated Price contract, or for Major Stipulated Price items for a Unit Price contract. The Schedule of Values is the basis for preparing applications for payment. Quantities and unit prices may be included in the schedule when approved or required by City Engineer.
- B. *Major Stipulated Price Item*: Item listed in Document 00410 Bid Tabulation Form which qualifies as Major Unit Price Work following Document 00700 General Conditions Paragraph 9.1.5.

1.03 SUBMITTALS

A. The Contractor must utilize, a web-based system run by the Houston Airport System, to submit Invoices. Before doing so, the Contractor must attend a brief mandatory training session, which will be conducted by a member of HAS. The Contractor must contact the designated HAS trainer prior to the start of construction to schedule a time for training. Access to will not be given to the Contractor's team until training is completed. All document collaboration will be done using a web-based system.

PAYMENT PROCEDURES

- B. Submit electronic version in native format of preliminary Schedule of Values at the Preconstruction Conference (Section 01312 Coordination and Meetings). Submit electronic copy in native format of final and updated Schedule of Values with each copy of Application for Payment.
- C. Submit electronic version in native format of Billing Forecast and Value/Time Log at first Progress Meeting (Section 01312 Coordination and Meetings). Obtain approval before making first application for payment. Coordinate this submittal with Master Schedule specified in Section 01325 Construction Schedules.
- D. Produce electronic document for Billing Forecast and Value/Time Log on 8 1/2 by 11-inch white bond paper.

1.04 SCHEDULE OF VALUES

- A. Prepare Schedule of Values as follows:
 - 1. Prior to the submission of the initial Application for Payment, Contractor shall obtain Project Manager approval for the format and content of the schedule of values for all invoices including the grouping of costs along the lines of specific equipment, asset or deliverable produced as a result of the work performed.
 - 2. For Stipulated Price contracts, use the Table of Contents of the Project Manual as the outline for listing the value of work by Sections.
 - 3. For Unit Price contracts, use Document 00410 as the outline. Include a proportional share of Contractor's overhead and profit in each Unit Price item so the sum of all items equals the Contract Price.
 - 4. List mobilization, bonds, insurance, accepted Alternates and Cash Allowances as separate items.
- B. Round off values for each item to the nearest \$100.00, except for the value of one item of the Contractor's choice, if necessary, to make the total of all items in the Schedule of Values equal the Contract Price.
- C. At direction of City Engineer revise the Schedule of Values and resubmit for items affected by Modifications, at least 10 days prior to submitting the next Application for Payment. List each Change Order as a separate item.

1.05 BILLING FORECAST

Prepare an electronic graphic or tabular Billing Forecast of estimated monthly applications for payment for the Work.

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- A. This information is not required in the monthly updates, unless significant changes in work require resubmittal of the schedule. Allocate the units indicated in the bid schedule or the schedule of values to Construction Schedule activities (weighted allocations are acceptable, where appropriate). Spread the dollar value associated with each allocated unit across the duration of the activity on a monthly basis. Indicate the total for each month and cumulative total.
- B. Billing forecast is only for planning purposes of City Engineer. Monthly payments for actual work completed will be made by City Engineer following Document 00700 General Conditions.

1.06 VALUE/ TIME LOG

Prepare an electronic Value/ Time Log as a slope chart, showing:

- A. Original Contract Time/ Modified Contract Time: x coordinate, in weeks.
- B. Original Contract Value/ Modified Contract Value: y coordinate, in thousands of dollars.

1.07 EXPENDITURE OF CASH ALLOWANCES

- A. Verify with City Engineer that work and payment requested is covered by Cash Allowance.
- B. Prepare electronic version of Document 00685 Request for Information following Section 01726 Base Facility Survey, include following minimum data to support Contractor's request for expenditure of Cash Allowances listed in Section 01210 Cash Allowances, and process in a timely manner to allow detailed review by City Engineer:
 - 1. Statement of fact indicating reason(s) expenditure is required. Include photographs or video following Section 01321 Construction Photographs documenting existing conditions.
 - 2. Quantity survey, made from on-site measurements, of quantity and type of work required to properly complete work.
 - 3. Cost of work, including detailed proposals from trade(s) responsible. For work governed by unit prices, applying unit prices following this Section.
 - 4. Trade(s) responsible for corrective work.
 - 5. Change in Contract Time.
 - 6. Administrative data, including contract name and number, and Contractor's name.

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PAYMENT PROCEDURES

- C. Do not commence affected work without written authorization.
- D. Process approved expenditures following Section 01255 Modification Procedures and Application for Payment process below.

1.08 APPLICATIONS FOR PAYMENT

A. Submit each Application for Payment following Document 00700 and as directed via SharePoint which utilizes an electronic version of the American Institute of Architects Document G702 including G703 continuation sheets.

1.09 PAYMENT FOR MOBILIZATION WORK

- A. Measurement for mobilization is on a lump sum basis if included as a unit price in Document 00410.
- B. Mobilization payments paid upon application by Contractor subject to:
 - 1. Authorization for payment of 50 percent of the contract price for mobilization will be made upon receipt and approval by City Engineer of the following submittal items, as applicable:
 - a. Schedule of values.
 - b. Trench safety program.
 - c. Construction schedule.
 - d. Photographs.
 - e. Submit QC Program
- C. Authorization for payment of the remaining 50 percent of the Contract Price for mobilization will be made upon completion of Work amounting to 5 percent of the Contract Price less the mobilization unit price.
- D. Mobilization payments are subject to retainage amounts stipulated in the Document 00700.

1.10 FINAL PAYMENT

- A. When Contractor considers the Work is complete, submit written certification that:
 - 1. Work is fully inspected by the Contractor for compliance with Contract Documents.

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- 2. Work follows the Contract Documents, and deficiencies noted on the Punch List are corrected.
- 3. Products are tested, demonstrated and operational.
- 4. Work is complete and ready for final inspection.
- B. In addition to submittals required by Document 00700 and other Sections:
 - 1. Furnish submittals required by governing authorities, such as Certificate of Occupancy and Certificates of Inspection.
 - 2. Submit a final statement of accounting giving total adjusted Contract Price, previous payments, and sum remaining due (final Application for Payment).
- C. When the Work is accepted, and final submittals are complete, a final Certificate for Payment will be issued.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01292 SCHEDULE OF VALUES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preparation and submittal of Schedule of Values for Stipulated Price Contracts or for Major Unit Price Work on Unit Price Contracts.

2.01 PREPARATION

- A. For Stipulated Price Contracts, subdivide the Schedule of Values into logical portions of the Work, such as major work items or work in contiguous construction areas. Use Section 01325 Construction Schedule as a guide to subdivision of work items. Directly correlate Items in the Schedule of Values with tasks in the Construction Schedule. Organize each portion using the Project Manual Table of Contents as an outline for listing value of the Work by Sections. A pro rata share of mobilization, Bonds, and insurance may be listed as separate items for each portion of the Work.
- B. For Unit Price Contracts, items should include a proportional share of Contractor's overhead and profit so that total of all items will equal Contract Price.
- C. For lump sum equipment items, where submittal of operation and maintenance data and testing are required, include separate items for equipment operation and maintenance data where:
 - 1. submittal of maintenance data is valued at five percent of the lump sum amount for each equipment item and
 - 2. submittal for testing and adjusting is valued at five percent of the lump sum amount for each equipment item.

Round off figures for each item listed to the nearest \$100. Set the value of one item, when necessary, to make total of all values equal the Contract Price for Stipulated Price Contracts or the lump sum amount for Unit Price Work.

3.01 SUBMITTAL

A. Submit the Schedule of Values, in accordance with requirements of Section 01330 - Submittal Procedures, at least 10 days prior to processing of the first Certificate for Payment.

SCHEDULE OF VALUES

- B Submit the Schedule of Values in an approved electronic spreadsheet file and an 81/2•inch by 11•inch print on white bond paper.
- C. Revise Schedule of Values for items affected by Contract Modifications. After City Engineer has reviewed changes, resubmit at least 10 days prior to the next scheduled Certificate for Payment date.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION – NOT USED

END OF SECTION

SECTION 01312 COORDINATION AND MEETINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General coordination is required throughout the documents and the Work. Refer to all of the Contract Documents and coordinate as required to maintain communications between Contractor, City and Designer; Subcontractors and Suppliers. Assist City with communications between Contractor and City's separate contractors.
- B. Preconstruction conference.
- C. Progress meetings.
- C. Daily briefings.

1.02 SUBMITTALS

In addition to submittals related to meetings and described elsewhere in this Section, see following Sections for submittals prepared under those Sections, but submitted under this Section:

- A. Section 01255 Modification Procedures: Individual authorized to execute Modifications.
- B. Section 01506 Temporary Controls: "Airport Construction Control Plans", containing submittals prepared under Section 01506 and other Sections referenced therein.

1.03 RESPONSIBILITIES FOR MEETINGS

A. City Engineer may act directly or through designated representatives identified by name at the Preconstruction Conference, and will schedule, chair, prepare agenda, record and distribute minutes and provide facilities for conferences and meetings.

B. Contractor:

- 1. Present status information and submittal data for applicable items.
- 2. Record and distribute Contractor's corrections to meeting minutes.
- 3. Provide submittal data for attendees. Prepare, reproduce and issue Contractor's documents to support conferences and meetings. Issue typically as part of each session

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unless more frequent publication is necessary. Issue one copy to each conference attendee, and to others as directed by City Engineer and as required by Contractor.

- a. Transmit documents requiring urgent action by email or messenger.
- b. Provide electronic and/or hard copies as required to properly document the project or project actions. The Contractor shall coordinate the submittal format with the City Engineer.
- c. Initiate and provide facilities for Coordination Meetings as required in 1.04. H.1.
- d. Costs for documentation are the Contractor's responsibility.

1.04 CONTRACTOR COORDINATION

- A. Coordinate scheduling, submittals, and work of Sections to achieve efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify characteristics of products are compatible with existing or planned construction. Coordinate work of various Sections having interdependent responsibilities for installing, connecting to, and placing products in service.
- C. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. Conceal pipes, ducts, wiring and fasteners in finished areas, except as otherwise indicated. Coordinate locations of fixtures and outlets with finish elements. Locate work requiring accessibility to coordinate with existing access panels and doors.
- E. Coordinate completion and clean up of work for Substantial Completion and for portions of the Work designated for partial occupancy.
- F. Coordinate access to site and within the work area(s) for correction of nonconforming work. Minimize disruption of occupants' activities where work areas are occupied.
- G. Do not proceed with affected work until discrepancies in contract requirements are resolved and unsatisfactory substrate and site conditions are corrected.
- H. Coordination Drawings: Before materials are fabricated or Work begun, prepare coordination Drawings including plans, elevations, sections, and other details as required to clearly define relationships between sleeves, piping, ductwork, conduit, ceiling grid, lighting, fire sprinkler, HVAC equipment and other mechanical, plumbing and electrical equipment with other components of the building such as beams, columns, ceilings, and walls.
 - 1. Hold Coordination Meetings with trades providing the above Work, to coordinate Work

of the trades for each floor and mechanical areas.

- 2. Prepare coordination Drawings to 1/4" = 1'-0" scale for general layout and 3/8" = 1'-0" for plans and sections in congested areas such as equipment spaces.
- 3. Resolve conflicts between trades, prepare composite coordination Drawings and obtain signatures on original composite coordination Drawings.
- 4. When conflicts cannot be resolved, Contractor shall request clarification prior to proceeding with that portion of the Work affected by such conflicts or discrepancies. Prepare interference Drawings to scale and include plans, elevations, sections, and other details as required to clearly define the conflict between the various systems and other components of the building such as beams, columns, and walls, and to indicate the Contractor's proposed solution.
- 5. Submit Drawings for approval whenever job measurements and an analysis of the Drawings and Specifications by the Contractor indicate that the various systems cannot be installed without significant deviation from the intent of the Contract. When such an interference is encountered, cease Work in the general areas of the conflict until a solution to the question has been approved by the project Architect/Engineer.
- 6. Submit original composite coordination Drawings as part of record document submittals specified in Section 01770.

1.05 PRECONSTRUCTION CONFERENCE

- A. Attendance Required: City Engineer's representatives, Construction Manager (when so employed), Designer(s), Contractor, Contractor's Superintendent, and major Subcontractors.
- B. Submittals for review and discussion at this conference:
 - 1. Draft Schedule of Values, following Section 01290 Payment Procedures.
 - 2. Bound draft of Airport Construction Plans, following Sections 01506 Temporary Controls and 01555 Traffic Control and Regulation.
 - 3. Draft construction schedule(s), following Section 01325 Construction Schedules.
 - 4. Draft Submittal Schedule, following Sections 01325 Construction Schedules and 01340
 Shop Drawings, Product Data and Samples.

C. Agenda:

- 1. Status of governing agency permits.
- 2. Procedures and processing of:

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- a. Submittals (Section 01340 Shop Drawings, Product Data and Samples).
- b. Permitted substitutions (Section 01630 Product Options and Substitutions).
- c. Applications for payment (Section 01290 Payment Procedures).
- d. Document 00685- Request for Information.
- e. Modifications Procedures (Section 01255 Modification Procedures).
- f. Contract closeout (Section 01770 Contract Closeout).
- 3. Scheduling of the Work and coordination with other contractors (Sections 01325 Construction Schedules, 01326 Construction Sequencing and this Section).
- 4. Agenda items for Site Mobilization Conference, if any, and Progress Meetings.
- 5. Procedures for Daily Briefings, when applicable.
- 6. Procedures for City's acceptance testing Sections 01450 Contractor's Quality Control, 01455 City's Acceptance Testing.
- 7. Record documents procedures (Section 01770 Contract Closeout).
- 8. Finalization of Contractor's field office and storage locations (Section 01505 Temporary Facilities).
- 9. Use of premises by City and Contractor Section 01145 Use of Premises.
- 10. Status of surveys (NOT USED).
- 11. Review of temporary controls and traffic control (Sections 01506 Temporary Controls and 01555 Traffic Control and Regulation).
- 12. Construction controls provided by City.
- 13. Temporary utilities and environmental systems (Section 01505 Temporary Facilities).
- 14. Housekeeping procedures (Section 01505 Temporary Facilities).

1.06 PROGRESS MEETINGS

- A. City Engineer will hold Progress Meetings weekly, or at other frequency determined by progress of the Work, at Department of Aviation office at
 - 111 Standifer Street at George Bush Intercontinental Airport/ Houston), Houston, Texas 77338 (281) 233-3000.

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- B. Attendance Required: Contractor's Superintendent, major Subcontractors' and Suppliers' superintendents, City Engineer representatives, and Designer(s), as appropriate to agenda topics for each meeting.
- C. Submittals for review and discussion at this conference:
 - 1. Project schedule (Section 01325 Construction Schedules).
 - 2. Submittal Log (Section 01340 Shop Drawings, Product Data and Samples).
 - 3. Log of Document 00685 Request for Information.

D. Agenda:

- 1. Review minutes of previous meetings to note corrections and to conclude unfinished topics.
- 2. Review of: progress schedule; coordination issues if any; corrective measures if any to regain planned progress; planned progress during succeeding work period; off-site fabrication and product delivery schedules.
- 3. Field observations, problems, and decisions.
- 4. Identification of problems which impede planned progress and Contractor's proposals for resolution.
- 5. Review of submittals schedule and status of submittals.
- 6. Review of RFI status.
- 7. Review of Request for Proposal, Work Change Directive and Change Order status.
- 8. Closings and impediments (Section 01145 Contractor's Use of Premises).
- 9. Maintenance of quality and work standards (Sections 01450 Contractor's Quality Control and 01455 City's Acceptance Testing).
- 10. Effect of proposed changes on progress schedule and coordination.
- 11. Other items affecting completion of the Work within contracted cost and time.

1.07 DAILY BRIEFINGS

A. In addition to Progress Meetings, hold briefings as frequently as required, at place designated by the City Engineer, to coordinate details of construction and airport operations. Discuss specific requirements, procedures and schedule changes, and closures and impediments.

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- B. When required, hold briefing before start of work each day, to confirm that required activities are properly allocated and unchanged.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

COORDINATION AND MEETINGS

SECTION 01321 CONSTRUCTION PHOTOGRAPHS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Progress photographs to supplement Applications for Payment.
- B. Detail photographs and video to supplement Request for Information.

1.02 MEASUREMENT AND PAYMENT

- A. Cost of photographs is incidental to the Contract Price. No additional costs will be paid for other than administrative costs of extra copies and photographs resulting from additional station points.
- B. Following work will be paid on a Unit Price basis:
 - 1. Extra Prints: Per print.
 - a. Extra prints provided direct from the photographer to parties authorized by the City Engineer up to date of Substantial Completion, priced at prevailing local commercial rates. Include photographer's costs and Contractor's administrative costs only.
 - b. Extra prints provided direct from the photographer to the City Engineer up to 3 years after the date of Substantial Completion, priced at prevailing local commercial rates. Include photographer's costs but not Contractor's costs for this service.
 - 2. Additional Station Points: Per stationpoint, for photographs made during same trips as Paragraph 2.01.
- C. Emergencies: Per trip to site. Take additional photographs or video, as appropriate to conditions, within 24 hours of the City Engineer's request. This applies to professional photography required by conditions stated in Paragraph 8.2.1 in Document 00700 General Conditions.
- D. Following photography will be commissioned by Modification: Publicity photographs; special events at site; photographs taken at fabrication locations off-site.

1.03 SUBMITTALS

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- A. Station point Plan: One copy of the Site Plan, marked to show plan, altitude and cone-of-view of each stationpoint selected by the City Engineer or Designer. Submit at least 10 days prior to taking Preconstruction Photographs.
- B. Preconstruction Photographs: Same as Paragraph B., except one-time only, and marked as such.
- C. Progress Photographs: 3 prints (or digital copies) on approved media of each view. Submit 2 prints and 1 color aerial photograph of the project site (or digital copies) with each Application for Payment. Retain 1 print (or digital copy) by the Contractor at the work site and available at all times for reference. Retain photographic digital files, at the photographer's office, for 3 years after Substantial Completion.
- D. Photographs and Video Supporting RFI: Identify following with RFI number and date of photographs:
 - 1. Submit 1 copy of 3x5 inch prints on white card stock in clear plastic sleeves.
 - 2. Submit video on CD's or other approved media. Include video identification number, date of record, approximate location, and brief description of record.
- E. Contract Closeout: Follow Section 01770, Contract Closeout to:
 - 1. Return electronic copies of RFI photographs and video on CD's or other approved media device, identified by Project name, Contractor, and date photographs were taken.
 - 2. Return video on CD's or other approved media device, identified with contents, by RFI number, and each CD or other approved media device numbered sequentially and with "Date From/ To" on each.
- F. Aerial Progress Photographs: Submit 5 prints and 1 CD of 2 consistent oblique views with each Application for Payment. Retain 1 print by the contractor at the work site and available at all times for reference. The photos shall be large format oblique angles taken from a height and viewpoint to be selected by the City Engineer.

1.04 QUALITY ASSURANCE

- A. Timely take and produce photographs from proper station points and provide proper image quality.
- B. Cooperate with the photographer's work. Provide reasonable auxiliary services as requested, including access and use of temporary facilities including temporary lighting.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 CONSTRUCTION PHOTOGRAPHS

- C. Qualifications of Photographer for General Progress Photographs: A firm or individual of established reputation regularly engaged as a professional building or scene photographer for not less than 3 years.
- D. Qualifications of Photographer for RFI Photographs and Video: An employee of the Contractor knowledgeable in photography and videotaping technique, including proper use of video pan-zoom, close-ups, lighting, audio control, clear narrative, smooth transition between subjects, and steady camera support.
- E. Qualifications of Aerial Photographer: A firm or individual of established reputation, regularly engaged in aerial photography with prior experience at IAH.

PART 2 PRODUCTS

2.01 MEDIA

A. Fixed-Film: 35mm color print film or color slide film, as determined by City Engineer; ASA 100 minimum, higher when required by lighting conditions.

B. Paper Prints:

- 1. For Progress Photographs: 8x10 inch matte-finish color, in clear plastic envelop with reinforced 3-ring binding.
- 2. For RFI Photographs: 3x5 inch minimum size, matte-finish color, contact-mounted on flexible white paper card stock in clear plastic envelop with reinforced 3-ring binding.
- C. Video: Approved playable PC digital format; record at slowest speed or speed capable of freezing a clear image on "Pause"; date and time stamp as part of recording process. Use audio function for slate data below.
 - 1. Provide color playback equipment at Contractor's site office, with minimum 13-inch (diagonal) screen size.
- D. Bitmapped (Digital) Images: TIFF, JPG, PNG, GIF, JPEG, BMP, TGA, or TIFF format, maximum 1280x480 and minimum 480x480 pixels, digitally date and time stamped.

2.02 PRECONSTRUCTION, PROGRESS AND RFI PHOTOGRAPHS

- A. Preconstruction Photographs: Prior to beginning on-site construction, take five sets of fixed-film photographs of the project area from approved stationpoints. Show condition of existing site area, and particular features as directed, within contract limits.
 - 1. At exterior views, surrounding situs, showing streets, curbs, esplanades, landscaping, runway, taxiway and apron pavement.

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- 2. At interior views, surrounding situs, showing floors, walls, ceilings and architectural signs.
- 3. Take pan-view photographs as required to encompass existing conditions.
- B. Progress Photographs for Applications for Payment: Take 3 fixed-film photographs from each of 2 station-points (same station points each time to show a time-lapse sequence), coinciding with the cutoff date associated with each application for payment, and at Substantial Completion of each stage of the Work.
- C. Photographs and Video for Request for Information: Take photographs and video as required to support Document 00685, Request for Information:
 - 1. Details of existing conditions before construction begins.
 - 2. Details of construction.
 - 3. Details of damage or deficiencies in existing construction and work of separate contractors.
 - 4. Take number of images as required to fully show conditions.

PART 3 EXECUTION

3.01 GENERAL

- A. Do not record over previous video records.
- B. Provide clear, sharp, vibration-less video data and clear audio without detrimental background noise.

END OF SECTION

SECTION 01325 CONSTRUCTION SCHEDULES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.
- B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.
- C. City of Houston (City) Policies, Standards and Procedures, as applicable.

2.01 SECTION INCLUDES

- A. Project Schedules and Progress Reporting
- B. Construction Sequencing and Phasing

3.01 DEFINITIONS

- A. Contractor: With respect to the Division 01 requirements, the entity contracted by the City to deliver the preconstruction and construction services defined in the Contract Documents.
- B. Design Consultant Person or firm and its authorized representatives, under contract with the City, to provide professional services during pre-construction and construction.
- C. Project Scheduling Techniques
 - 1. CPM: Critical Path Method
 - 2. PDM: Precedence Diagramming Method

D. Section Definitions

1. **Activity:** A discrete element of Work or task performed during the course of the Project. Each schedule activity shall be clearly defined depicting duration, start and finish dates, logic links to predecessor and successor activities and supported by defined resources where applicable. The activities shall be detailed in such a way,

CONSTRUCTION SCHEDULES

that they shall support the planning and measurement of physical percent complete for the purposes of Earned Value Management reporting.

- 2. **Baseline Schedule:** The schedule prepared by the Contractor and approved by the City which is the basis for representing the full scope of Work, the time scales and phasing for delivery, providing a means against which progress can be determined.
- 3. Commissioning and Integration Testing Schedule: Activities contained within the Project Schedule depicting startup, testing and commissioning phase of the Project, including activities associated with the transition to revenue service and required for achievement of Final Acceptance.
- 4. **Constraint:** Scheduling restriction imposed on start or finish of an activity. A constraint restricts the movement of an activity based on the type of constraint and the date used and may override the logic relationship also assigned to the activity.
- 5. **Construction Schedule:** Activities within the Project Schedule which depicts the construction activities performed or to be performed by the Contractor as a part of the Project.
- 6. **Contractor's Project Management Plan:** A formal document prepared by the Contractor and approved by the City which describes how the Project will be planned and progressed and delivered by the Contractor and the necessary reviews and acceptances by the City.
- 7. **Cost Breakdown Structure:** The breakdown structure the Contractor shall use to distribute contract costs in the various estimates, Schedule of Values and in alignment to the Work Breakdown Structure.
- 8. Critical Path Method (CPM): Scheduling technique utilizing activities, durations, and interrelationships/dependencies (logic), such that activities are interrelated with logic ties from the beginning of Project to Final Acceptance.
- 9. **Data Date:** Date when the status of schedule activities is determined for a Monthly Progress Schedule report. Any data prior to the Data Date is considered historical information and data after is the forecast of remaining work.
- 10. **Design Schedule:** Activities within the Project Schedule which includes the design activities of the Project. The Design Schedule shall demonstrate the interdependence between design activities and the Owner's requirements. The Design Schedule shall also demonstrate the relationships between design activities and the requirements to successfully deliver the activities within the Construction Schedule.
- 11. **Float:** The term "float" shall refer to "end float", also called "terminal float" End or terminal float is the period by which the finish of the longest path through a schedule

(the critical path) can be delayed, brought forward, or extended without affecting the completion date.

- 12. **Float Suppression:** Any technique that causes an activity to show less float, including but not limited to, as late as possible constraints and unnecessary lags.
- 13. **Fragnet:** A group of interrelated activities taken from or to be added to a Schedule that can stand on their own representing only a portion of a CPM schedule. For example, a Fragnet can be used to portray a scope of work being added to, or changed from, a Project Schedule.
- 14. **Key Plans:** Graphic representations on prints of Contract Documents of Contractor's planned breakdown of Project for scheduling purposes. Key plans shall clearly define boundaries of work for each designated segment, locations, and sub-locations. Alphanumeric codes on plans shall match code values for activity code designation in the Project Schedule.
- 15. **Lag:** Time that an activity follows or is offset from the start or finish of its predecessor.
- 16. **Materials Plan:** A plan for purchase, fabrication, delivery, storage and issuing of materials and products to the Project which must be integrated into the Project Schedule.
- 17. **Look-Ahead Schedule:** An element schedule prepared by the Contractor detailing the status of the work as of the Progress Date and Contractor's plan for executing the remaining work before recalculation and/or re-sequencing.
- 18. **Longest Path:** The Longest Path is the Path through a Project network from start to finish where the total duration is longer than any other path. The Longest Path is determined by the string of activities, relationships that push the Project to its latest early finish dates.
- 19. **Monthly Progress Schedules:** The updates to the Project Schedules prepared by Contractor and submitted to the City on a monthly basis with the Application for Payment. There are two versions of Monthly Progress Schedules submitted; a Progress Only (PO) version and a Contractor Adjusted (CA) version.
- 20. Preconstruction Schedule: An element of the Project Schedule prepared by the Contractor which includes activities prior to approval to proceed with construction activities.
- 21. **Project Schedule:** A CPM Schedule prepared by the Contractor that includes all elements of the Scope of Work of the Contract. The Project Schedule clearly identifies all relationships that exist within the Scope of Work. The Project Schedule

communicates the sequencing of the multiple phases of work. The Project Schedule identifies interfaces, both internal and external to the Scope of Work of the Contract. The Project Schedule encompasses the Baseline Schedule, Look Ahead Schedules, Delivery Phase Schedules (Design, Procurement, Detailing, Fabrication, Shipment, Installation, Construction, Startup, Testing and Commissioning), updated or revised Baseline Schedules. The Project Schedule also includes Monthly Progress Schedules, Proposed Schedules, Schedule Fragnets, Recovery Schedules.

- 22. **Program Schedule:** When multiple Projects are logically linked into a Program, the Program Schedule is prepared by the City and incorporates all the interrelated projects by combining the individual Project Schedules. Project Schedules become element schedules of the Program Schedule.
- 23. **Proposed or Preliminary Schedule:** A schedule prepared by Contractor, prior to approval of the schedule by the City and subsequent incorporation into the Project Schedule. Also referred to as Draft or Initial Schedule.
- 24. **Recovery Schedule:** A schedule prepared by the Contractor and to be approved by the City which details the Contractor's plan for recovery of time lost on the Project and associated costs.
- 25. **Revised Baseline Schedule:** A revision to the Baseline Schedule that is necessitated to accurately reflect a significant change in scope or phasing of the scheduled Activities. The Baseline Schedule shall not be revised without prior approval by the City.
- 26. **Status Data Date:** The "as-of" date up to which all progress has been updated and reflected in the Status report. The Status Data Date is also the date from which a Lookahead Schedule predicts future activities and progress.
- 27. **Submittal Schedule:** A register (list) of the Submittals to be made for materials, products, shop drawings, plans which is prepared by the Contractor and includes durations needed for submittal, reviews and processing. The dates and durations are to be coordinated with the associated activities within the Project Schedule.
- 28. **Delay Analysis:** Technique that demonstrates comparison of time impact for each schedule revision or proposed revision against the current Project Schedule. Methodology shall follow Association for the Advancement of Cost Engineering International (AACEI) Delay Analysis as applied in Construction (Recommended Practice No. 52R-06.) as a guideline or method submitted by the Contractor and approved by the PMT.
- 29. **Work Breakdown Structure (WBS):** A deliverable-oriented breakdown of a project into decreasingly smaller components, also described as a hierarchical decomposition of the project team's work into manageable sections.

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30. **Working Day:** Day scheduled for active execution of Work in the Project Schedule Calendar in accordance with the Contract and as approved by the City.

4.01 SUMMARY

- A. Acceptance of Schedule Requirements by Contractor
 - 1. The Contractor accepts the responsibility to complete the project on time as called for in the contact.

B. Schedule Requirements

- 1. The Contractor is responsible for determining the sequence of activities, the time estimates for the detailed construction activities and the means, methods, techniques and procedures to be employed. The Project Schedule shall represent the Contractor's plan of how it will prosecute the Work in compliance with the Contract requirements. Contractor shall ensure that the Project Schedule is current and accurate and is properly and timely monitored, updated and revised as Project conditions may require and as required by the Contract Documents. Unless the context indicates otherwise, the term "schedule" used herein will be read to include updated schedules.
- 2. Schedules shall contain logic and necessary components to perform Critical Path Method (CPM) network analysis. Contractor's schedule shall also be able to illustrate Precedence Diagraming Method (PDM).
- 3. Contractor shall include in the Project schedule contractual milestones and all interface points with City, Design Consultant(s), Subcontractors, Suppliers, and other Contractors. These points shall be in the form of Start Milestones for deliverables due to the Contractor from others, and as Finish Milestones for deliverables that Contractor must supply to City, Design Consultant(s), Subcontractors, Suppliers and other Contractors. Finish milestones must be determinate by predecessor activity, not by constrain.
- 4. Schedule shall contain activities for preparation and approval of contractor's design and submittal deliverables. Procurement, fabrication and delivery of mayor materials and long lead items. Obtain permits and construction activities.
- 5. Contractor shall allocate duration uncertainty to the scheduled activities within the contract schedule to enable a Quantitative Schedule Risk Analysis (QSRA) to be performed by the Program Management Team. Duration uncertainty (minimum duration, maximum duration, most likely duration) according to the relevant risk exposure shall be captured by the contractor against the scheduled activities. The PMT must rely on the data being supplied by the Contractor and incorporated and updated in line with the monthly schedule update process.

- 6. Contractor shall utilize the most current version of Primavera P6 (15.1 or Later) for all schedules governed by these provisions.
- 7. The Contractor is responsible for assigning appropriate material, equipment and labor resource loading of the key quantities necessary to execute the activity. This will demonstrate realistic productivity rates as well as measure and report Key Performance Indicators (KPIs).
- 8. The City Engineer reserves the right to reject any schedule or report that fails to realistically or satisfactorily reflect completion of the Project scope of work or any agreed intermediate milestone. Failure of the Contractor to deliver satisfactory schedules or reports as required in the Contract Documents may result in actions by the City General Conditions.
- 9. The schedule shall show all activities in Work Days, with allowance for holidays or other periods when work is not permitted to be performed.
- 10. Detailed schedule requirements shall be contained within the City Policies, Standards and Procedures).
- 11. Contractor shall prepare schedules which assure that all work sequences are logical, and the network shows a coordinated plan for complete performance of the Work. Failure of the Contractor to include any element of work required for performance of the Contract in the network shall not excuse the Contractor from completing all Work within the Contract Time.
- 12. Contractor must have an approved workhour plan as noted in the approved Work Authorization Notification (WAN) prior to commencing work on the project site. Changes to the approved work-hours plan shall require 48-hour written notice and subsequent written approval by the City.

5.01 SUBMITTAL REQUIREMENTS

The Contractor must utilize the City's web-based application management system for submittals. The Project Manager will coordinate training and access to the web-based application management system. The submittal processes are further defined in Section 01330 Submittal Procedures and in the City Policies, Standards and Procedures, as applicable.

- A. In addition to the PDF versions of the schedule required in this Section, submit one electronic copy of schedule in Primavera compressed format (.XER). Filename shall have a unique identifier and shall include a sequential number for each monthly update. PDF prints and reports shall be generated from same version of the Schedule that is provided in electronic form.
- B. Submittal of Contractor Schedules

- 1. Submit Preconstruction Schedule for approval within 30 days of NTP for Preconstruction Services
- 2. Submit the initial proposed Project Schedule for approval as a Baseline Schedule within 30 days of NTP for Construction Services.
- 3. Submit Monthly Progress Schedule and Narrative no later than 12:00 noon (local time) on the Wednesday before the last Friday of the month. The Data Date for the Monthly Progress is 00:00 hours on the Saturday following the last Friday of the Month. The Monthly Progress Schedule is required for each Application for Payment. Contractor may request to meet with the City prior to the submittal of the Monthly Progress Schedule and Application for Payment to resolve issues prior to submittal.
- 4. The weekly 3 weeks Look-Ahead Schedule shall be submitted every Tuesday at 08:00 hours with the previous week's progress updated. The Status Date of the Look-Ahead Schedule shall be the previous Saturday at 00:00 hours, progressed weekly.
- 5. Submit Delay Analysis per the AACEI recommended practice 52R-06 as follows:
 - a. Within ten work days after receipt of written change modification.
 - b. Within ten work days after receipt of written notice by City.
 - c. Within ten work days from beginning of delay caused by unforeseeable circumstances.
- 6. Submit Recovery Schedule following the event of a forecast delay. Contractor shall submit a Recovery Schedule within the 21 calendar days of Contractor receiving City's written request that is resource and cost justified indicating how the Contractor will recoup the impacted contract time.
- 7. Submit an As-Built Schedule within 30 work days after the City's Final Acceptance of the Work.
- 8. Submit a Submittal Log as a supplement documents for Monthly Progress Schedule, showing all submittals for products, materials, plans, and shop drawings, RFI's and administrative submittals required per the Technical Specifications including associated Specification Section numbers and headings.
 - Include durations and dates for processing by Reviewers and/or other parties as required. Indicate submittals requiring special processing such as short-duration reviews.
 - b. The Contractor shall coordinate packaging of individual submittals in a logical and organized fashion so that they may be reviewed in part or in whole with related

elements of work with the Reviewers.

c. Include durations and dates based on frequency of Contractor's submittals to City for items such as of administrative submittals such as Applications for Payment, Labor Reports, Safety Reports, MWBE Reports.

6.01 SCHEDULE CONTROL PROCEDURES AND QUALITY ASSURANCE

A. Control Procedures

- 1. Procedures for schedule control shall be included in the Contractor's Project Management Plan as part of the plan implementation and reporting requirements. Prior to submission of Monthly Progress Schedule contractor should call for scheduling workshop with Houston Airports to propose schedule changes to remove out of sequence logic and to present accurate critical path. Allowed changes are only for removing or adding logic links. Changes in original durations, resources etc. are not permitted. After approval of schedule changes contractor can proceed with Monthly Progress Schedule submission. All changes must be recorded in schedule change control log and submitted as supplementary document in Monthly progress report.
- 2. If any in-progress activity is delayed for any reason, that activity will be split to track the reason for the delay. A separate activity for the delay will be created and placed in between the split.
- 3. Procedures for preparing and monitoring the Project Schedule and other required reporting.,
- 4. Procedures for performing quality oversight of the schedule review/forecast.
- 5. Earned Valued Methodology Procedures shall be implemented for performance measurement using data from the schedule to provide an effective means of comparing Work scheduled/planned versus Work performed. Please see Section 0 Section 01 32 16, 1.3.D1.Provide, as a minimum, a continuous review of actual progress against the most recent Project Schedule. This is to assure that revised resource allocation and/or other corrective action can be considered and undertaken proactively and as early as possible.

B. Qualifications of Contractor's Scheduler

1. Contractor shall have within its employ or under separate Contract, throughout the execution of the Work under this Contract, such expertise in CPM scheduling and P6 software so as to insure its effective and efficient performance under this Specification. It shall be the responsibility of the Contractor to prepare input information for the Contract Schedule, monitor progress, provide input for updating

and revising logic diagrams when necessary and otherwise fulfilling its obligations hereunder. Contractor shall submit the qualifications of the CPM Specialist for acceptance by the City.

7.01 SCHEDULING PRINICIPLES AND REQUIREMENTS

A. General

- 1. Contractor shall prepare the Schedules identified in this Section during the performance of Contract. The Schedules shall:
 - a. Be detailed, time-scaled, computer-generated schedules, using the Critical Path Method, that accurately depict activities representing each portion of the Work from the current Data Date through Final Acceptance.
 - b. Be used for planning and coordinating the Work.
 - c. Be the basis for reporting all the Work to be performed in fulfillment of the Contract Documents.
 - d. Accurately depict the Contractor's current logical activity sequences and activity durations necessary to complete the Work in accordance with the requirements of the Contract Documents.
 - e. Assist Contractor and City in preparation and evaluation of Contractor's monthly progress payments.
 - f. Assist the City in evaluating progress (including payment) of the Work.
 - g. Assist Contractor and City in monitoring progress of Work and evaluating proposed changes to the Contract and requests for additional contract time.
 - h. Provide for optimum coordination by Contractor of its trades, Subcontractors, and Suppliers, and of its Work with the Work or services provided by any separate Contractors.
 - i. Permit the timely prediction or detection of events or occurrences which may affect the timely prosecution of the Work.
 - j. Provide a mechanism or tool for use by the City, and Contractor in determining and monitoring any actions of the Contractor which may be required in order to comply with the requirements of the Contract Documents relating to the completion of the various portions of the Work by the Contract Time specified in the Contract Documents.
- 2. Contractor shall include in the Contract schedule all interface points with City, Design

Consultant(s), Subcontractors, Suppliers, and other Contractors. These points shall be in the form of Start Milestones for deliverables due to the Contractor from others, and as Finish Milestones for deliverables which Contractor must supply to City, Design Consultant(s), Subcontractors, Suppliers and other Contractors. The PMT will assist in obtaining the relevant data from other parties when required.

3. Contractor shall provide to the City duration uncertainty and risk events for scheduled activities within the contract schedule to enable a Quantitative Schedule Risk Analysis (QSRA) to be performed by the City. Duration uncertainty (minimum duration, maximum duration, most likely duration) according to the relevant risk exposure shall be captured by the contractor against the scheduled activities.

4. Calendar

- a. Anticipated work and non-work periods shall be included for each activity.
- b. Agreed Holidays shall be included as non-work days assigned to the appropriate day as they occur.
- c. Anticipated Weather Lost Days
- d. As the basis for establishing a "Weather Calendar", use the National Oceanic and Atmosphere Administration's (NOAA) historical monthly averages for days with precipitation, using a nominal 30- year, greater than 2.5 mm 0.10-inch amount parameter, as indicated on the Station Report for the NOAA location closest to the project site. In addition, incorporate into the Weather Calendar, other non-workdays such as Saturdays, Sundays and Federal Holidays.

B. Activities

- 1. Contractor shall use and/or implement generally accepted recommended industry practices and the City Policies, Standards and Procedures, as applicable.
- 2. Schedule activities shall be sufficiently named or titled to include what is to be accomplished and identified by the applicable work areas. Activities shall be grouped to assist in the understanding of the activity sequence. Examples of the types of activities to include in each schedule are as follows:
 - a. Design Activities: If and when Contractor has responsibility for the design as a part of the Contract, design activities shall be logically tied to the Construction Activities without constraints and Contractor shall develop an agreed design progress and performance measurement system based on design package deliverables and division of responsibilities. At a minimum, design work shall be divided to have an agreed number of deliverables per area/facility/system/subsystems and the governing jurisdictions. Actual design

packaging scheme shall be agreed upon with the City prior to implementation. When Contractor does not have responsibility for design as a part of the Contract the design activities shall be logically tied to the Construction Activities as start Milestones. Include Contractor's agreed design packaging scheme to support timely procurement of material, obtaining permits, and construction plan and include:

- 1) Agency review and approval cycles based on applicable Governmental Persons, Authority(s) Having Jurisdiction (AHJ) and other applicable Laws, Regulations, and Ordinances.
- 2) Activities for each design phase (Concept, Schematic (30%), Design Development (60%) and Issued for Permit and Issued for Construction (100%) documents.
- 3) Application for, and receipt, of required permits.
- 4) Contractor's submittal of design and construction documents for City review and approval.
- 5) Design review cycles and logical ties to subsequent fabrication, delivery, and construction activities.
- 6) Other design related deliverables.
- b. Procurement Activities: Contractor's procurement activities included in schedules shall be logically tied with no constraints and shall be resource and cost loaded. Examples of Procurement activities include, but are not limited to:
 - 1) Bid and award cycles.
 - 2) Shop Drawing development and approval.
 - 3) Equipment and Materials submittal preparation and approval
 - 4) Equipment and Materials, fabrication, factory acceptance testing, and delivery.
 - 5) Purchased and Stored Material/Equipment.
 - 6) Material/Equipment delivery requirements by the City.
- c. City Activities: Activities of City and other third-party activities shall be clearly identified in the Project Schedule. These activities include, but are not limited to, the following and the precursor processes:

- 1) Right-of-Way property acquisition and site access.
- 2) Submittal reviews.
- 3) Inspections and tests as necessary.
- 4) Environmental permit approvals by regulators.
- 5) Notice to Proceed.
- 6) Delivery of City-furnished material/equipment.
- d. Construction Activities: Construction activities shall be resource and cost loaded as described in this Section and shall include, but not be limited to:
 - 1) Mobilization or demobilization.
 - 2) Installation of temporary and permanent Work by trades, areas, and facilities as described in the Contract Documents.
 - 3) Activities to describe the Work in sufficient detail identified according to the WBS.
 - 4) Testing and inspections of installed work by technicians, inspectors or engineers as well as the outages.
 - 5) Final clean-up.
 - 6) Scheduled Substantial Completion.
- e. Commissioning and Integration Testing Activities shall be resource and cost loaded and shall include, but not be limited to:
 - 1) Start-up and Testing of equipment and systems.
 - 2) Commissioning of building and related systems.
 - 3) Scheduling of specified manufacturer's representatives.
 - 4) Dynamic Testing Readiness.
 - 5) Pre-Final inspection.
 - 6) Final Acceptance inspection.

- 7) System Demonstration Performance Tests.
- 8) Training to be provided.
- 9) Administrative tasks and processes necessary to start, proceed with, accomplish, or finalize the Work.

C. Activity Durations:

- 1. Contractor shall maintain individual schedule activity durations of 20 work days or less.
- 2 Activities exceeding 20 work days in duration shall contain appropriate production projections so that entries can be maintained, and remaining durations adjusted according to physical progress.
- 3 Items such as Procurement, Fabrication, and Delivery activities may exceed 20 work days with the approval of City.
- 4. The Contractor is not permitted to modify (increase or decrease) an activity's original duration after it is approved by the City. During the monthly updating process, only the activity's remaining duration may be modified.

D. Summary Level Activities

- 1. Contractor may use Summary Level activities to represent the Work under the following conditions:
 - a. In the Preconstruction Schedule, those activities starting at least 180 days after the NTP or as otherwise agreed with the City.
 - b. In the Project Schedule and Monthly Progress Schedules, those activities starting at least 360 days after the NTP or as otherwise agreed with the City.
 - c. Summary Level activities should not exceed 90 work days without City approval and shall match the Work Breakdown Structure.
 - d. All Summary Level activities shall be detailed and supported by appropriate key resource information resource and cost loaded as agreed to in the Scheduling Conference.
 - e. Contractor shall replace Summary Level activities in the Preconstruction and Proposed Project Schedule with detailed activities through an updating process as the information becomes available and as the above-defined or agreed day limits roll forward.

- 2. Activity Relationships/Use of Constraints, Lags and Milestones
 - a. Except for the Notice to Proceed and Project Completion milestone activities, no activities shall be open-ended, open-start or open finish. Each activity shall have predecessor and successor relationships to present sequence of work and movement of resources (hard and soft logic). Once an activity exists on an approved Project Schedule it may not be deleted, renamed, or renumbered, unless approved by City.
 - b. Finish-to-Start relationships shall be the primary relationship used in all Project Schedules unless valid reasons are demonstrated for other logic relationships. Start-to-Start with lags shall be permitted provided the lag is updated and no gaps exist between contiguous activities due to the lag. Activities linked to successors only with Start-to-Start relationships shall not be permitted and must also include a Finish-to-Start or Finish-to-Finish relationship with one or more successors. Finish to Start relationship with lag shall not be permitted.
 - c. Lags shall not be used when the creation of an activity will perform the same function (e.g., concrete cure time). Use of lag must be minimized and restricted to only those situations where it is not possible to properly define the start or finish of an activity by the use of a normal Finish-to-Start, Start-to-Start or Finish-to-Finish relationship. Duration of a lag shall not exceed the duration of the predecessor activity. Negative lags shall not be permitted. Contractor shall identify any lag proposed and provide an explanation for the purpose of the lag in the activity notebook and Narrative Report.
 - d. Date/time constraints, other than those required by the Contract Documents, shall not be used unless jointly agreed to by City and Contractor. If Contractor seeks approval to include constraints in the schedule, Contractor shall identify any constraints proposed and provide an explanation for the purpose of the constraint in the activity notebook and Narrative Report.
 - e. Actual Start and Finish dates shall not be automatically updated by default mechanisms that may be included in the CPM scheduling software system. Actual Start and Actual Finish dates shall be included on the Monthly Progress Schedule and shall be consistent with other project reporting, such as daily reports, and the Contractor's monitoring and performance measuring system. In-progress activities will be updated by revising the activity's remaining duration according to actual measured or estimated work progression.
 - f. Allowable activity dates are early start, late start, early finish, late finish, actual start, and actual finish. Use of activity dates such as "expected" are prohibited.
 - g. Float Suppression techniques (i.e. as late as possible constraints) shall not be allowed. All Float shall be shown in the Project Schedule. Float shall be

monitored, accounted for, and maintained in accordance with this Section.

h. Activity constraints or use of activity durations, logic ties and sequences unapproved by the City shall not be used in any Project Schedule.

3. Resource Loading Project Schedule

a. The Activities within the construction schedule shall be resource loaded with key quantities and updated on a weekly basis to track the production of construction activities. The update of key quantities will be used to track Key Performance Indicators (KPIs) set forth by the PMT.

E. Software Settings

- 1. De-Link Remaining Duration and Percent Complete. Construction activity progress will be calculated using Remaining Duration and Physical Percent Complete.
- 2. Set Resource Data to "Two decimal places".
- 3. All activity durations and Float values will be shown in days.
- 4. Schedule calculations and Out-of-Sequence progress (if applicable) shall be handled through Retained Logic, not Progress Override and not Actual Dates. Out-of-Sequence activities shall be updated to reflect actual project conditions.
- 5. Date format will be DDMMMYY (i.e., 01DEC15.)
- 6. Default activity type will be set to "Task Dependent"."
- 7. The Duration Type for each activity shall be set to "Fixed Duration and Units" before assigning any costs or resources to the activity.

F. Activity IDs

- 1. The naming and coding of activities will strictly be per the City policies, standards and procedures, as applicable. Activity IDs shall be provided for each Activity with up to 15 characters as detailed in the City Policies, Standards and Procedures, as applicable. The purpose of the structure for the Activity ID is for easier identification and for improved organization in all Project Schedules. Each part of the ID will also need to be included in the schedule as an activity code.
- 2. Activity IDs shall not be deleted and/or re-assigned. If during the course of the project, an activity is needed to be deleted, that Activity shall move to the inactive WBS titled "Deleted Activities" in order to avoid re-using of the same Activity IDs, should the need of adding new activities arise.

3. Activities to be deleted: Remove logic, relationships and Activity Codes.

G. Activity Names

1. Activity

- a. Location Verb Names shall be brief but shall convey the scope of work described. Non-Standard abbreviations shall be explained in the Narrative Report. Percentages shall not be used in activity descriptions (e.g., Pour West Footing (0 50%)) unless the City agrees with the use of percentage for a particular activity. Contractor shall submit samples of activity names for approval prior to establishing the schedule.
- b. All activities shall have a unique activity name/description.
- c. Activity names can only be modified to add detail describing an activity's scope, correct the spelling or grammar, or to improve for clarity, but cannot be revised to completely change the scope of the activity.
- d. Each activity name should follow the following format:
 - (1) Noun.
 - (2) Station numbers, column numbers, or other description for the location, may be included at the end of the activity name if it will provide a better description of the activity.
- e. Example values for Location include but are not limited to:
 - (1) Segment Number.
 - (2) Column Line Numbers.
 - (3) Stationing Value.
 - (4) Other Unique Identification schemes.
- f. Examples of Verbs include, but are not limited to:
 - (1) Design.
 - (2) Install.
 - (3) Procure.

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- (4) Fabricate.
- (5) Deliver.
- (6) Erect.
- (7) Describe the work being performed.

H. Work Breakdown Structure

1. Activities in Project Schedules shall be tied to the Work Breakdown Structure as provided in the City Policies, Standards and Procedures, as applicable.

I. Activity Codes

- 1. The purpose of the activity codes is to further sort and filter the schedule activities to enhance reporting capability. The activity codes required include both those that are already part of the Activity ID and those that are not.
- 2. Activities shall be coded as indicated in the City Policies, Standards and Procedures, as applicable.

J. Resource Loading

- 1. Resource loading shall be done on every construction activity, representing quantifiable work or materials of that Work Package.
- 2. Each resource-loaded activity shall have an estimate of the key quantities.
- 3. Failure to incorporate resource loading and establish planned productivity and/or production rates (defined as the planned quantity of work to be executed in a given time), may result in the Contractor's waiver of any right to compensation and time extension for loss of productivity. Submission of any such claim may be rejected for failure to establish baseline productivity by which any claimed loss would be measured.
- 4. Failure to incorporate resource loading and establish planned productivity may also result in the rejection of any schedule by the City Engineer.

K. Schedules as the Basis for Payment

1. The approved Project Schedule of Values shall be the basis for monitoring and calculating the Contractor's progress during each update period and therefore the amount of each progress payment. Lack of an approved Project Schedule or Monthly Progress Schedule Update will result in the inability of the City to evaluate contract

progress for the purposes of payment. Failure of the Contractor to provide all information, as specified in this Section, will result in the disapproval of the Monthly Progress Schedule (City Engineer may decline to certify payment and may withhold request for payment in whole or in part as set forth in the General Conditions, Article 9, Subparagraph 9.7.3.).

2. Percent complete for activities in the Schedule of Values shall be based on proportion of the overall quantity of the physical work complete. Contractor and City to jointly assess and agree on actual values for easily discernible units of measure (square feet, each, linear feet) on a weekly basis.

L. Cash Flow Report

- 1. The Contractor shall generate Cash Flow Reports based on each submitted Project Progress Schedule. Report shall be grouped and formatted to be consistent with the approved schedule of values from the contract. Reports shall indicate a time-phased distribution of Schedule of Values. Alternate Cash Flow Reports, if requested by the PMT, shall be submitted for approval prior to submission of the first report.
- 2. The Cash Flow Report shall display in tabular and graphic format, projections of monthly values of anticipated cost. Each schedule of values line item is to be represented within the project. The Cash Flow Report should also contain the adjusted forecast of estimated costs to achieve completion of the project.

M. Use of Float

1. Float shall be monitored and accounted for. The Float in any schedule shall not be considered for the exclusive use of either the City or Contractor; rather it is for the benefit of the Project. As such, Float is considered an expiring resource available to both parties on a nondiscriminatory basis, so long as the parties act in good faith and work in the best interests of completing the Project on time.

N. Contractor and City Responsibilities for Schedules and Acceptance

- 1. Any schedule or schedule update rejected or otherwise marked by the City as requiring revision and resubmission shall be revised by the Contractor and resubmitted within 5 days of such revision or resubmission Notice by the Project Manager. Any schedule or schedule update that has not been approved or accepted is presumed lacking a reasonable degree of accuracy and will not be considered by the City to be reasonable, feasible, or accurate when used by Contractor as a basis for a Time Impact Analysis or other type of delay analysis or claim.
- 2. If Contractor fails to submit its initial construction schedule or monthly schedule updates, or any such schedule or updates are not acceptable to the City, the City Engineer or Director may take such action to decline certifying payment and may

withhold request for payment in whole or part) as set forth in Article 9 - General Conditions, §9.7.3 or any other remedy set forth in the Contract or at law of equity.

3. Contractor Responsibilities

- a. Contractor shall have the responsibility to develop and update the schedules according to all requirements described herein. All schedules shall accurately represent to the City the Contractor's plan for execution of Work. Contractor shall use the most current Project Schedule to execute the Work in compliance with Contract Documents.
- b. In developing and updating the Project Schedules, Contractor represents that it shall require its Subcontractors to actively participate in such development and updating processes. The Contractor represents that all schedules are consistent with Contractor-approved Subcontractor schedules with sufficient agreed details.
- c. Contractor is required to provide its Subcontractors' schedules and updates in native format upon request by City.
- d. Costs incurred by the Contractor in complying with the requirements of this Section or other scheduling obligations contained in the Contract Documents, including but not limited to Contractor's Scheduler, and preparation of all Project Schedules, creation of Recovery Schedules, and the preparation of Time Impact Analysis shall be included in the Contract Price, and shall not be the subject of requests to the City for contractual relief.

4. City's Responsibilities

- a. All Project Schedules shall be submitted to the City for review and approval, consistent with the specific requirements set forth herein. The City shall have the right to disapprove any schedule if the schedule fails to comply with the requirements herein, provided, that such disapproval is based on a reasonable determination by the City that such schedule contains deviations from the specifications. City shall have the right to waive what it considers to be, in its sole discretion, minor defects in a schedule. City recognizes its responsibility to act in a reasonable manner with respect to approvals and agrees that approvals shall not be unreasonably withheld (i.e. for matters that do not impact the effective functioning of the schedule.)
- b. Any approval by City of the schedules submitted by the Contractor to City shall mean that in the opinion of the City, Contractor has complied with the requirements of this Section. No such review shall release or relieve the Contractor from full responsibility for the accurate and complete performance of the Work, including the accuracy and completeness of the schedules, or any other duty, obligation or liability imposed on it by the Contract including, the responsibility

for completing the Work within the time set forth in the Contract. The review or approval will not constitute a representation by City that the Contractor will be able to proceed or complete the Work in accordance with the dates contained in submitted schedule.

- c. In reviewing schedules submitted by designers, contractors, or others, the City will review the schedules to determine if the respective schedule appears "feasible and reasonable"; and, determine if the services or work could logically be accomplished in the time frames allotted in the schedule. Approving, accepting, or assenting to (hereafter referred to collectively as "approval" or "approving") a schedule only means that the City considers that the schedule appears "feasible and reasonable."
- d. By approving a schedule, the City is not agreeing that the work or services will be accomplished according to and within times set forth in the schedule. Nor by approving a schedule does the City accept or bear some responsibility or liability if the work or services are not accomplished according to and within times set forth in the schedule or if factors upon which the schedule is based thereafter change during the execution of the works or services. Approval of any schedule showing completion beyond milestone dates and/or beyond contract completion times indicated in the contract shall not change any milestone or completion times in the contract and approval of a schedule is without any prejudice to the rights of the City.

O. Schedule Workshops and Review Meetings

1. A record of all Schedule Workshops and Schedule Review Meetings shall be made by the Contractor stating the place and time of the meeting, the names and identification of those present, and a description of the topics discussed, and the agreements reached. Meeting minutes for these meetings, subject to the City's review and approval, shall be prepared immediately after the meeting and issued within three days, with distribution to the City and all attendees.

2. Project Scheduling Workshops:

- a. Proposed Schedule Workshop
- b. Contractor shall meet with the City within 14 days after the Notice to Proceed for Preconstruction Services to conduct a Post-Award Kick-Off Meeting and Project Scheduling Workshop to review and coordinate schedule requirements including, but not limited to, the following:
 - (1) Review software limitations and content and format for reports.
 - (2) Verify availability of qualified personnel needed to develop and update

schedule.

- (3) Discuss physical constraints to the project, including phasing, work stages, area separations, and interim milestones.
- (4) Review delivery dates for City-furnished products.
- (5) Review of Contractor and Subcontractor procurement cycles and their work plans.
- (6) Review schedule for work of the City's separate contracts.
- (7) Review submittal requirements and procedures.
- (8) Review time required for review of submittals and re-submittals.
- (9) Review requirements for tests and inspections by independent testing and inspecting Governmental Authority(s)
- (10) Review time required for Project closeout and City startup procedures, including commissioning activities.
- (11) Review and finalize list of construction activities to be included in schedule.
- c. Baseline Schedule Workshop
 - (1) Contractor shall meet with the City within 30 days after the Notice to Proceed for Construction Services to conduct another Post Award Kick-Off Meeting and Project Scheduling Workshop. This Workshop shall involve scheduling personnel from Contractor and City with the objective of working together to establish procedures for the development of the Baseline Schedule, and to ensure that the City requirements are satisfied and to review and coordinate schedule requirements Contractor shall present the draft Baseline Schedule including a description of intended methodology and assumptions used to accomplish the Work. Presentation shall include:
 - (a) Contract scope.
 - (b) Submittals with City's review.
 - (c) Activity durations.
 - (d) Logic.
 - (e) Activity coding.

- (f) Weather assumptions.
- (g) Resource Loading
- (h) Cost Loading and Resource Loading
- (i) Performance and Progress measurement.
- (j) Consequence of potential risks including:
 - (i) Long lead times (procurement/deliveries).
 - (ii) Labor and materials shortages.
 - (iii) Accidents.
- (k) Environmental factors.
- (l) Contractor's plan to mitigate any potential risks should they occur.
- (m) Establish Key Performance Indicators (KPI's) for actual progress compared to projected progress.
 - (i) Workshops shall be conducted no more than every 14 calendar days, until the Baseline Schedule is accepted and approved by City.
- P. Joint Monthly Progress Schedule Review Meetings
 - 1. Joint Project Status and Monthly Progress Schedule Review Meetings will be held between the City and Contractor consistent with the Contractor's submission of a Monthly Progress Schedule. Contractor is responsible for gathering all supporting documentation, presenting the data for the applicable Monthly Progress Schedule and recording the meeting minutes. The primary purpose of these meetings shall be to review the Monthly Progress Schedule, the monthly Pay Application, and construction progress, including but not limited to:
 - a. Actual start and finish dates of work accomplished, or actual start date and physical percent complete. Identify activities started and completed during the previous period and enter the Actual Start and Actual Finish dates. It shall be understood that Actual Start is defined as the date that work begins on an activity with the intent to pursue the work represented by the activity to its substantial completion, and Actual Finish is defined as the date that the activity's work is complete.
 - b. The amount of the Work remaining for the next period as incorporated in the

schedule. Indicate activity progress and/or revise remaining duration (in workdays) to update each activity started, but not completed (remaining duration.) The remaining duration of an activity shall over-ride the calculated percent complete of an activity's duration when preparing the Monthly Progress Schedule.

- c. Changes in the critical path(s) of the schedule.
- d. Modifications that affect durations, sequencing or logic of activities for which the City, Governmental Authority(s) or other third parties are responsible.
- e. The assessment of any delays to Longest Path(s).
- f. Determination of delays, and, as applicable, adjustment of Force Majeure Reserve.
- g. All other schedule changes as reflected in the accompanying narrative will be reviewed for relevance and effect on remaining Work.
- h. Resource constraints, if any and proposed work-around sequences.
 - (i) Review proposed schedule changes, future Work and potential problems or impact.
 - (j) Review the Application for Payment to determine the accuracy of, in accordance with the Project Schedule, all progress achieved, the satisfaction all requirements relating to invoicing for Stored Materials, Time and Material (T&M) Change Orders, and whether it is otherwise complete and accurate.

Q. Modifications – Time Impact Analysis

- 1. Proposed modifications, including potential delays that are anticipated or experienced shall be submitted to City. Contractor has a duty to mitigate delays through modified sequences to minimize cost and time impact caused by the change or potential delay.
- 2. The Contractor shall prepare a Delay Analysis for each modification, potential delay, delay event, or Contractor request that may affect the Scheduled Substantial Completion Date. The Delay Analysis shall be developed and submitted in accordance with Contract Documents or as requested by City and shall conform to all scheduling principles described in this Section. Preparation of Time Impact Analyses is considered part of construction process and shall be performed at no additional cost to City.
- 3. Delay Analysis methodology shall follow the guidelines contained in the Association for the Advancement of Cost Engineering International (AACEI) Time Impact Analysis as Applied in Construction.

- 4. City will strive to approve or reject each Delay Analysis within ten Work Days after receipt of each Time Impact Analysis, unless subsequent negotiations are required, or multiple analyses are submitted at one time. Upon Approval, a copy of the Time Impact Analysis signed by City shall be returned to Contractor and incorporated into Schedule at next Monthly Progress Schedule update which will then become the current approved Schedule.
- 5. Delay Analysis shall meet requirements for submittal of Schedules including a Fragnet, with sufficient supporting documentation to enable City to make a determination of Contractor's request for a time extension.
- 6. Upon execution of a Change Order adjusting the Schedule Substantial Completion Date, the agreed upon event and impact shall be included in the next Monthly Progress Schedule if the parties agree to the extent of the impact. Changes in the schedule should be clearly identifiable by specific Activity IDs and activity coding and Work Breakdown Structure for changes as agreed upon with City. Inclusion of changed conditions shall conform to all scheduling principles noted in this Section. Changes included as an adjustment to the existing schedule activity durations are not allowed.
- 7. Once the Delay Analysis has been approved, the activities associated with that Time Impact Analysis should be added to the next Monthly Progress Schedule or Look-Ahead Schedule.
- 8. If the parties are unable to reach an agreement about how to forward-look the effect of the impact on the Monthly Progress Schedule's Critical Path(s), City may allow the Contractor to insert a Fragnet into the schedule on a preliminary basis following agreement of the proposed Fragnet activities. The duration of the Fragnet activities and/or the impact to the Scheduled Substantial Completion Date will be adjusted through the monthly update process as the actual duration of the delay becomes known.

R. Other Schedules

1. The Contractor may use other schedules and report in other formats to manage its work on a day-to-day basis, but these other schedules do not represent or replace the Project Schedules as specified in this Section.

8.01 PRE-CONSTRUCTION SCHEDULE

- A. When Preconstruction Services are to be provided by the Contractor, upon receipt of the NTP for Preconstruction Services, Contractor shall prepare a Preconstruction Schedule which includes those activities prior to approval to proceed with construction activities.
- B. The Preconstruction Schedule shall include the activities described in the plans developed during Preconstruction including design plans, subcontracting plans, procurement plan,

construction plans and development and negotiation of a Guaranteed Maximum Price (if applicable) at a summary level which can be replaced with detailed information as the Project Schedule is finalized and the construction is authorized.

8.02 PROJECT SCHEDULES

A. Proposed Project Schedule

- 1. Prepare an initial Proposed Project Schedule (Proposed Schedule) representing the Contractor's plan for the Work in accordance with the requirements of this Section. The Proposed Project Schedule will include the elements of the Preconstruction Schedule and be the initial draft of the Project Schedule. The Proposed Schedule will be the basis for Monthly Progress Schedules and monthly Pay Applications until the approval of the Baseline Schedule.
- 2. The Proposed Schedule shall be updated on a monthly basis until the approval of the Baseline Schedule after which the Baseline Schedule becomes the Project Schedule.

B. Baseline and Project Schedule

- 1. The Baseline Schedule is the Project Schedule at the point in time when the Contractor and City agree and approve the Proposed Schedule as the accepted basis for the Project. Requirements described in this subsection shall apply to the all Baseline Schedule submissions.
- 2. Baseline Schedule submitted by Contractor and approved by the City shall contain no progress for any activities and shall have a Data Date of the Notice to Proceed date.
- 3. Prepare a draft Baseline Schedule after the Baseline Schedule Workshop has been conducted.
- 4. Within 14 calendar days after the draft Baseline Schedule is accepted the Contractor shall provide its final Baseline Schedule for City's review and comments.
- 5. The final Baseline Schedule submission shall include the following:
 - a. The approved final Baseline Schedule shall be version 00.
 - b. One full-color time-scaled network document in PDF format organized by WBS. Print sizes shall be 11 inches by I7 inches standard sized sheets. Provide following information on the document:
 - (i) Activity ID.
 - (ii) Activity Description.

- (iii) Original Duration.
- (iv) Remaining Duration.
- (v) Duration Percent Complete.
- (vi) Early Start.
- (vii) Early Finish.
- (viii) Late Start.
- (ix) Late Finish
- (x) Total Float
- (xi) Activities Gantt Chart
- 6. The Baseline Schedule narrative which shall address the following:
 - a. Description of the Contractor's plan to perform the work through the entire contract performance period.
 - b. Description of primary, secondary and tertiary Critical Paths.
 - c. Explanation of calendars used, including days of the week, holidays, etc.
 - d. Discuss calendar assignment to activities.
 - e. Description of major pieces of equipment that will be used on the site.
 - f. Discuss procurement of long lead items.
 - g. A discussion of monthly cash flow planned costs, and cumulative expenditures.
 - h. A general description of the means and methods proposed for the execution of the Work including, but not limited to:
 - (1) Discussion of operating areas and the proposed sequences.
 - (2) Description of the planned crews sizes, equipment used, etc.
 - (3) Number of shifts to perform the Work.
 - (4) Significant activities that may inhibit the Work.

CONSTRUCTION SCHEDULES

- (5) A listing of all milestones.
- 7. Contractor shall represent that the final Baseline Schedule is an accurate representation of Contractor's plan for performing the entire Work and that Contractor intends to use such schedule to execute the Work in compliance with the Contract Documents. Once the final Baseline Schedule is accepted it shall be the initial Project Schedule and used as the baseline in the Monthly Progress Schedules.

C. Monthly Progress Schedules

- 1. Monthly Progress Schedules are Project Schedules with progress achieved indicated for each Activity.
- 2. Project Schedules shall be progressed (updated) on a monthly basis until Final Acceptance is accomplished. Progress of Schedule activities shall be a physical percent complete as agreed with the City.
- 3. The Contractor shall not reduce activity durations in an attempt to reduce negative float. If the Contractor intends to execute activities quicker than the original duration, this shall be mentioned in the float analysis.
- 4. Approved Changes shall be included in each Monthly Progress Schedule.
- 5. Contractor shall meet with City each month in a Joint Monthly Progress Schedule Meeting,
- 6. Contractor shall make two submittals (Progress Only and Contractor's Adjusted) of the Project Schedule each month:
 - a. Shall incorporate the Contractor's Monthly Update (i.e. logic, durations, and calendar) made to the schedule including progress update information. This submission shall follow the scheduling principles described in this Section.
- 7. Each version of the Monthly Progress Schedule submitted by the Contractor shall require approval by City.
- 8. The Data Date for the Monthly Progress Schedule is 00:00 hours on Saturday following the last Friday of the Month. For each update of the Proposed and Baseline Schedules, the Version number shall increase by 1, and the previous schedule shall be archived to permit an audit trail.
 - a. Designations for the Progress Only (PO) and the Contractor's Adjusted (CA) shall clearly define the submission.
 - b. City will review and approve Monthly Progress Schedules based on remaining

durations provided for each activity.

- c. Each Monthly Progress Schedule (PO and CA) shall contain activity progress measured through the Data Date and shall be submitted to the City for its review.
- 9. The City will review the Monthly Progress Schedule and provide comments at the Joint Monthly Progress Schedule Meeting to be held five working days after submission of the Monthly Progress Schedule.
- 10. Monthly Progress Schedule submissions shall be comprised of the following:
 - a. One full-color time-scaled network document in PDF format organized by WBS. Print sizes shall be 11 inches by I7 inches standard sized sheets.

Provide following information on the document:

- (1) Activity ID.
- (2) Activity Description.
- (3) Original Duration.
- (4) Remaining Duration.
- (5) Duration Percent Complete.
- (6) Early Start.
- (7) Early Finish.
- (8) Late Start.
- (9) Late Finish.
- (10) Total Float.
- b. The Monthly Progress Schedule narrative shall address the following:
 - (1) Description of the Work completed by the Contractor in the past performance period and Contractor's plan to perform the work through the entire next performance period, including shift work.
 - (2) Description of primary, secondary, and tertiary Critical Paths.
 - (3) Description of problem areas and anticipated problem areas and an

CONSTRUCTION SCHEDULES

explanation of corrective actions taken or planned to be taken.

- (4) Current and anticipated delays including cause of delay, corrective actions taken, and impact of delay on other activities, milestones, and completion dates.
- (5) Pending items (Minor Changes in the Work, Change Orders, Time Impact Analyses) and status thereof.
- (6) A list of fully executed Changes issued by the Wednesday of the week before the last Friday of every reporting period.
- (7) A description of any changes made to the schedule and reasons.
- (8) A narrative to show revisions since previous submissions for changes in scope of work, sequencing and other identifiable changes.
- (9) Progress made on critical activities indicated on CPM schedule.
- (10) Status of critical project components (percent complete, amount of time ahead or behind schedule) and if delays have occurred provide an analysis of how they may be mitigated.
- (11) Explanations for any lack of work on critical path activities planned to be performed during last month. Identify any changes to the critical path and the drivers for each change.
- (12) List of critical activities scheduled to be performed next month.
- (13) Status of major material and equipment procurement.
- (14) Any delays encountered during the reporting period.
- (15) Updated schedule duration uncertainty to coincide with the Project status and risk exposures.

D. Look-Ahead Schedules:

- 1. The Look-Ahead Schedule shall be the actual detailed work plan used by the Contractor in meeting the Contract schedule and milestones. The Look-Ahead Schedule shall be an element of the Contractor's Project Schedule.
- 2. The Look-Ahead Schedule shall be the basis of the weekly Progress Meetings.
- 3. The Look-Ahead Schedule shall display:

- a. Past Week Activities
- b. Current Week Activities
- c. Three Week Look ahead Activities
- 4. Look-Ahead Schedules shall include as-built data, forecasted activity sequences, activity durations, through the Scheduled Substantial Completion Date and Final Acceptance, demonstrating the entire scope of Work.
- 5. In months coinciding with a Look-Ahead Schedule submission, PO Monthly Progress Schedule shall be based on the last approved Monthly Progress Schedule
- 6. Submission of Look-Ahead Schedules shall not replace the requirement for Contractor to prepare a Time Impact Analysis indicating delay to Scheduled Substantial Completion Date.

E. Commissioning and Integration Testing Schedule:

- 1. Testing and Commissioning is expected to be carried as a summary activity in the Baseline Schedule and Project Schedules until a draft Commissioning and Integration Testing Schedule shall be submitted not later than 90 days prior to the first testing / commissioning before the Scheduled Substantial Completion Date.
- 2. A final Commissioning and Integration Testing Schedule shall be submitted no later than 60 days prior to the first testing / commissioning activity before the Scheduled Substantial Completion Date and upon approval shall be incorporated into the Project Schedule with a Monthly Progress Schedule.
- 3. The Commissioning and Integration Testing Schedule shall display scheduled Work so that each activity is shown with duration of no more than 15 workdays.

F. Recovery Schedule

- 1. Should any of the following conditions exist, City may require the Contractor to prepare, at no extra cost to City, a plan of action and a Recovery Schedule as to how the Contractor plans to reorganize its work and resources to complete the Work by the Scheduled Substantial Completion Date and recover any lost time and/or delays that have been determined by the City to be caused by the Contractor:
 - a. Contractor's monthly progress report indicates delays that are, as determined by City, of sufficient magnitude that the Contractor's ability to complete the Work by the Scheduled Substantial Completion Date is brought into question.
 - (1) If the Work is delayed on the Critical Path item for a period which exceeds

the greater of either a) thirty (-30) days in the aggregate, or b) that number of days in the aggregate equal to five percent of the days remaining until the approved Substantial Completion. For example, If the remaining duration during the period update is 300 Days, then five percent of the remaining 300 Days is 15 Days. The greater of (-30) days or (-15) days is (-15) days.

- (2) Contractor 's performance and resource utilization are not as planned to result in unnecessary consumption of the float.
- (3) Contractor desires to make changes in the logic (sequencing of Work) or the planned duration of future activities in the schedule to recover lost time.
- b. Contractor shall submit a Recovery Schedule according to the requirements described in this Section. A Recovery Schedule, when required, shall be submitted to City for review and approval within 21 calendar days of Contractor receiving City's written request.
- c. Changes included in Recovery Schedule shall be documented. Contractor shall submit to City an audit report that has been prepared using schedule comparison software (i.e. Claim Digger, Project Investigator, or other software approved by City.
- d. If a recovery schedule is required hereunder, the City, at its sole discretion, may withhold the Contractor's Fee for that period in the Payment Application until such time the Contractor has prepared, and the City has accepted such recovery schedule.
- e. The Recovery Schedule submission shall include the following:
 - (1) Detailed narrative describing (with an explanation for the reason of) any revised sequences, durations, and resources.
 - (2) Anticipated effect of revision on the current Project Schedule and Scheduled Substantial Completion Date, including describing change in affected activities' Total Float value.
 - (3) Contractor shall furnish sufficient labor, resources and equipment to ensure the prosecution of the Work meets the current Scheduled Substantial Completion Date. If in the opinion of City, Contractor falls behind in the prosecution of the Work as indicated in the current Schedule, Contractor shall take such steps as may be necessary to improve its progress. City may require Contractor to increase the number of shifts, days of work, and/or the amount of plant and equipment, all without additional cost to City.
 - (4) If Contractor fails or refuses to implement such measures to bring the Work back to conformity within the Scheduled Substantial Completion Date, City

shall have the right to declare such failure or refusal a Contractor Event of Default under the Contract.

G. Revised Baseline Schedule

- 1. Either City or Contractor may request a Revised Baseline Schedule (Re-Baseline Schedule). The Monthly Progress Schedule to reflect actual progress shall not be considered as a Revised Baseline Schedule.
- 2. A Revised Baseline Schedule is considered necessary under the following conditions:
 - a. Additions, deletions, or revisions to activities required by Contract modification.
 - b. City determines there is reasonable doubt that milestones or the Scheduled Substantial Completion Date will be met. A Schedule Revision shall demonstrate how Contractor intends to reschedule remaining work by the Scheduled Substantial Completion Date. There shall not be additional cost to City, through re-sequencing and reallocating its forces to complete Work by Scheduled Substantial Completion Date.
- 3. Revised Baseline Schedule, when required, shall be submitted to City for review and approval within 21 days of Contractor receiving City's written request.
- 4. Revised Baseline Schedule shall conform to all requirements described in this Section for Project Schedules and shall include:
 - a. An audit report that has been prepared using schedule comparison software (i.e. Claim Digger, Project Investigator, or other software approved by the City.)
 - b. Detailed narrative explaining reason for revision.
 - c. Anticipated effect of the Revised Baseline Schedule on the Scheduled Substantial Completion Date, including describing change in affected activities Total Float value.
 - d. Appropriate Fragnet demonstrating the necessary changes.

H. As Built Schedule

1. Contractor shall prepare and submit an As-Built Schedule documenting actual start and actual finish dates for all activities and logic ties for all activities to show actual sequence in which Work was performed.

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Project No. 957

CONSTRUCTION SCHEDULES

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 CONSTRUCTION SEQUENCING

SECTION 01326 CONSTRUCTION SEQUENCING

PART 1 - GENERAL

- 1.01 SECTION INCLUDES
 - A. Work periods.
 - B. Mobilization and demobilization.
 - C. Construction sequence.
- 1.02 WORK PERIODS
 - A. No work is permitted at IAH [HOU during the following periods:
 - 1. Beginning at 6:00 a.m. CST (0600 hours) on Tuesday prior to Thanksgiving Day and to 10:00 p.m. CST (2000 hours) the following Monday.
 - 2. Beginning at 6:00 a.m. CST (0600 hours) one week prior to Christmas Day and to 11:59 p.m. CST (2359 hours) January 2 following.
 - 3. Beginning at 6:00 a.m. CST (0600 hours) on Friday prior to Houston Area Spring Break, and to 11:59 p.m. CST (2359 hours) the following Monday. These dates maybe adjusted by HAS operations depending on scheduling of Spring Break for Houston Area School Districts.

No pavements shall be closed during these periods. The Contractor shall prepare any closed pavements to be opened during these periods, including, but not limited to, removal of all barricades and pavement closure devices, replacement of pavement markings. Coordinate requirements with HAS operations. This work shall be considered subsidiary to the cost of the project and shall not be measured or paid for separately.

A. Reference the project phasing sheets of the plan set for details and required work hours, by phase. The contractor is required to complete the work by phase within the calendar days noted in the project phasing sheets of the plan set. Each Bid Schedule will be initiated only with a Notice to Proceed by the Owner. The Notices to Proceed may or may not be numerically sequential and may or may not be issued immediately after completion of the preceding Bid Schedule. The Contractor may not perform work without an authorized Notice to Proceed.

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- B. For purposes of on-site construction operations for interior work, work may be accomplished in one or more of the following daily schedules (shifts) and as specified elsewhere herein:
 - 1. "Day (D) Shift": For work fully confined behind dust-resistant enclosures and where airborne or structure-borne noise is abatable by temporarily ceasing operations, work from 0000 hours through 2400 hours each day of the week, meaning a 24 hour shift is available whether or not all hours are used; however, deliver products and remove debris only during "N Shift."
 - 2. "Night (N) Shift": For work that cannot, due to dust or noise-producing operations, be done during "D Shift", work from 1900 hours through 0600 hours each day of the week (8-hour shift, one-hour lunch break), with the following restrictions on access:
 - a. Move products into and remove debris only during "N shift" period.
 - b. Complete work of the shift and entirely evacuate the work area by 0600 of the next day, including rubbish removal, leaving enclosures or barricades in place.
- C. For purposes of on-site construction operations for exterior work within the AOA, work shall conform to the following:
 - 1. The contractor shall not perform lane closures with the Terminal Roadways unless approved in advance and in writing by HAS Airport Operations.
 - 2. Fire station access must be maintained at all times.
 - 3. Maintain access through work zone to terminal buildings and garages at all times unless indicated on the plans. Temporary closures of any access must only be completed between the hours of 10:00 p.m. CST (2200 hours) to 6:00 a.m. CST (0600 hours) on weekend days unless indicated on the plans. Temporary closures of delivery entrances and exits may only occur from 8:00 p.m. CST (2000 hours) to 4:00 a.m. CST (0400 hours) on weekend days unless indicated on the plans.
 - 4. The contractor shall coordinate staging areas for equipment with HAS Airport operations.
 - 5. See additional traffic control sequencing notes in the plans.

1.03 MOBILIZATION AND DEMOBILIZATION

- A. Payment for mobilization is specified in Section 01290 Payment Procedures.
- B. General mobilization applicable to the Work, regardless of construction sequencing specified herein includes:

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 CONSTRUCTION SEQUENCING

- 1. Construction and Submittal Schedule processing following Sections 01325 Construction Schedules and 01340 Shop Drawings, Product Data and Samples.
- 2. Obtain and pay for permits.
- 3. Submittal of other documents following Section 01312 Coordination and Meetings.
- 4. Survey Base Building Following Section 01726- Base Facility Survey and process related Document 00685- Request for Information, including accessibility by cutting, following Section 01731- Cutting and Patching, into concealed areas.
- 5. Security badging following Section 01506 Temporary Controls.
- 6. Approval of construction schedules following Section 01325 Construction Schedules.
- 7. Product acquisition for other tasks; except products with short lead times may be acquired later as required to maintain schedule performance.
- 8. Acquisition of major construction equipment and set-up of on-site storage and office space.
- 9. Other activities necessary to maintain schedule performance.
- 10. Construction of exterior and interior barricades and enclosures following Section 01505 Temporary Facilities.

C. Demobilization:

1. Processing of closeout documents, following Section 01770 - Contract Closeout, and activities not otherwise completed at the end of previous tasks.

1.04 CONSTRUCTION SEQUENCE

- A. Sequence of work or tasks indicated in the schedule included in the Drawings is intended only as a guide for Bidding.
- B. Prepare and process Contractor's construction schedule following Section 01325-Construction Schedules.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 CONSTRUCTION SEQUENCE

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE IIProject No. 957 **CONSTRUCTION SEQUENCING**

A. Construct the Work in sequence as shown on Drawings.

END OF SECTION

SECTION 01330 SUBMITTAL PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittal procedures for:
 - 1. Construction Schedules and Cash Flow Curve (billing forecast).
 - 2. Shop Drawings, Product Data and Samples
 - 3. Manufacturer's Certificates
 - 4. Construction Photographs
 - 5. Project Record Documents and monthly certification.
 - 6. Design Mixes

1.02 SUBMITTAL PROCEDURES

A. Scheduling and Handling:

- 1. The Contractor must utilize Microsoft SharePoint, and/or a web-based system run by the Houston Airport System, to submit RFIs, Submittals and Invoices. Before doing so, the Contractor must attend a brief mandatory SharePoint training session, which will be conducted by a member of HAS. The Contractor must contact the designated HAS trainer prior to the start of construction to schedule a time for training. Access to SharePoint will not be given to the Contractor's team until training is completed. All document collaboration will be done using SharePoint.
- 2. Submit Shop Drawings, Data and Samples for related components as required by Specifications and Project Manager.
- 3. Schedule submittals well in advance of need for construction Products. Allow time for delivery of Products after submittal approval.
- 4. Develop submittal schedule that allows sufficient time for initial review, correction, resubmission and final review of all submittals. Allow a minimum of 30 days for initial review. Project Manager will review and return submittals to

SUBMITTAL PROCEDURES

Contractor as expeditiously as possible, but time required for review will vary depending on complexity and quantity of data submitted.

- 5. Project Manager's review of submittals covers only general conformity to Drawings, Specifications and dimensions that affect layout. Contractor is responsible for quantity determination. No quantities will be verified by Project Manager. Contractor is responsible for errors, omissions or deviations from Contract requirements; review of submittals does not relieve Contractor from the obligation to furnish required items in accordance with Drawings and Specifications.
- 6. Submit five copies of documents unless otherwise specified.
- 7. Revise and resubmit submittals as required. Identify all changes made since previous submittal.
- 8. Assume risk for fabricated Products delivered prior to approval. Do not incorporate Products into the Work, or include payment for Products in periodic progress payments, until approved by Project Manager.
- B. Transmittal Form and Numbering:
 - 1. Transmit each submittal to Project Manager with Transmittal letter which includes:
 - a. Date and submittal number
 - b. Project title and number
 - c. Names of Contractor, Subcontractor, Supplier and manufacturer
 - d. Identification of Product being supplied
 - e. Location of where Product is to be installed
 - f. Applicable Specification section number
 - 2. Identify deviations from Contract documents clouding submittal drawings. Itemize and detail on separate 8-1/2 by 11-inch sheets entitled "DEVIATIONS FOR _______." When no deviations exist, submit a sheet stating no deviations exist.
 - 3. Have design deviations signed and sealed by an appropriate design professional, registered in the State of Texas.
 - 4. Sequentially number transmittal letters beginning with number one.
 - 5. Use original number for resubmittals with an alphabetic suffix (i.e., 2A for the first resubmittal of submittal 2, or 15C for third resubmittal of submittal 15, etc.).

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 SUBMITTAL PROCEDURES

Show only one type of work or Product on each submittal. Mixed submittals will not be accepted.

C. Contractor's Stamp:

- 1. Apply Contractor's Stamp certifying that the items have been reviewed in detail by Contractor and that they comply with Contract requirements, except as noted by requested variances.
- 2. As a minimum, Contractor's Stamp shall include:
 - a. Contractor's name.
 - b. Job number.
 - c. Submittal number.
 - d. Certification statement Contractor has reviewed submittal and it is in compliance with the Contract.
 - e. Signature line for Contractor
- D. Submittals will be returned with one of the following Responses:
 - 1. "REVIEWED AS SUBMITTED" when no response and resubmittal is required.
 - 2. "NO EXCEPTION" when sufficient information has supplied to determine that item described is accepted and that no resubmittal is required.
 - 3. "MAKE CORRECTIONS AS NOTED WHEN EXCEPTIONS DO NOT REQUIRE FUTURE CHANGES" when sufficient information has been supplied to determine that item will be acceptable subject to changes, or exceptions, which will be clearly stated. When exceptions require additional changes, the changes must be submitted for approval. Resubmittal is not required when exceptions require no further changes.
 - 4. "REVISE AND RESUBMIT" when submittal do not contain sufficient information, or when information provided does not meet Contract requirements. Additional data or details requested by Project Manager must be submitted to obtain approval.

1.03 MANUFACTURER'S CERTIFICATES

A. When required by Specification sections, submit manufacturers' certificate of compliance for review by Project Manager.

- B. Place Contractor's Stamp on front of certification.
- C. Submit supporting reference data, affidavits, and certifications as appropriate.
- D. Product certificates may be recent or from previous test results, but must be acceptable to Project Manager.

1.04 DESIGN MIXES

- A. When required by Specification sections, submit design mixes for review.
- B. Place Contractor's Stamp, as specified in this section, on the front of each design mix.
- C. Mark each mix to identify proportions, gradations, and additives for each class and type of mix submitted. Include applicable test results from samples for each mix. Perform tests and certifications within 12 months of the date of the submittal.
- D. Maintain copies of approved mixes at mixing plant.

1.05 CHANGES TO CONTRACT

- A. Changes to Contract may be initiated by completing a Request for Information form. Project Manager will provide a response to Contractor by completing the form and returning it to Contractor.
 - 1. If Contractor agrees that the response will result in no increase in cost or time, a Minor Change in the Work will be issued by City Engineer.
 - 2. If Contractor and Project Manager agree that an increase in time or cost is warranted, Project Manager will forward the Request for Proposal for negotiation of a Change Order.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

Project No. 957

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

SECTION 01340

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General procedural requirements for submittal data:
 - 1. Shop drawings.
 - 2. Product data.
 - 3. Samples, including control samples.
 - 4. Product certifications and compliance statements.
 - 5. Submittal logging.
- B. Submittal quantities specified in other Sections supersedes those specified herein.
- C. Product interface control documents.

1.02 GENERAL PROCEDURES

- A. Review submittal data and indicate results of review on documents submitted to Designer.
 - 1. Obtain review and indicate results of Subcontractors' and applicable Separate Contractors' reviews before submittal to Designer.
 - 2. Include on each shop drawing, sample or product data submittal the following minimum language, signed (by individuals authorized to make binding agreements on behalf of their respective firms) and dated on behalf of each responsible party:

"The Subcontractor and the Contractor named below hereby certify this submittal has been checked prior to submission to Designer and conforms to the requirements of the Contract Documents for work represented hereby. This submittal does not deviate from requirements of the Contract Documents. It has been checked for: field conditions; correlation of dimensions and quantities; safety precautions; construction means, methods, techniques, schedules, sequences, procedures and fabrication processes; for errors and omissions in this submittal; and for coordination of the work of the trades.

SHOP DRAWINGS,

| Project No. 95 | PRODUCT DATA AND SAMPLES | | |
|----------------|--|--|--|
| | (Subcontractor Firm) (Authorized Signature) (Date) | | |
| | This submittal has also been checked by the following Subcontractors and Separate Contractors for coordination of substrate/superstrate conditions and applicable product interfaces. (List company names, place authorized signature and date for each.) | | |
| | (Contractor) (Authorized Signature) (Date)" | | |

- B. Transmit submittals under original transmittal to Designer, with a copy of the transmittal only to City Engineer. Number each submittal by specification number, for future reference.
 - 1. Furnish number of copies specified herein or in other Sections, for Designer's and City Engineer's records, plus additional copies as the Contractor requires for construction operations and coordination of the Work.
 - 2. Identify Project, Contractor, Subcontractor, Supplier, and generic name of component or system. Allow space on submittal data to accommodate required stamps by Contractor, applicable Subcontractors, applicable Separate Contractors, Designers, and other reviewers.
 - 3. Indicate applicable Drawing detail and Section number.
 - 4. For submittals using SI (metric) measure as the manufacturer's or fabricator's standard, include corresponding Imperial measure conversions. Follow requirements in Section 01610.
- C. After Designer's review, revise and resubmit until resubmittal is no longer required; identify and log changes made to previous submittals.
- D. Distribute copies of reviewed submittals to concerned parties, including Separate Contractors. Instruct recipients to promptly report inability to comply with requirements indicated therein.
- E. Shop Drawings, Product Data and Samples: Follow Contractor's progress schedule for submittals related to work progress. Coordinate submittal of related items. Partial submittals will be returned unreviewed.
- F. Transmit submittals far enough in advance to provide time required for reviews, for securing necessary approvals, for revisions and resubmittals. Allow 14 days after receipt for

Project No. 957

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- Designer's review, except where shorter processing time is approved due to extraordinary conditions.
- G. Do not submit data where no submittal requirements occur. Unsolicited submittals will be returned unreviewed.
- H. Incomplete, uncoordinated, inaccurate and illegible submittals, and submittals without evidence of review by Contractor, applicable Subcontractors and applicable Separate Contractors will be returned unreviewed.
- I. Responsibility for costs of Designer's additional reviews resulting from improper submittal data remains with the Contractor, deductible from the Contract Sum or Time by Change Order.

1.03 SHOP DRAWINGS

- A. Submit one vellum sepia or electrostatic transparency (emulsion side "up") with one diazo print. After Designer's review, reproduce and distribute copies required for the Contractor's use. The Designer will reproduce copies for Designer and City Engineer.
- B. Sheet Size: 8-1/2 x 11 inches minimum; 36 x 24 inches maximum.
- C. If CADD is used, prepare documents readable, writable and printable using IBM PC-compatible hardware and software, based on AutoCAD (13 or later versions) or software translated thereto. Provide AutoCAD data disks following Section 01770 Contract Closeout.
- D. Prepare shop drawings by qualified drafters, accurately and distinctly showing:
 - 1. Field and erection dimensions clearly identified as such.
 - 2. Arrangement and section views.
 - 3. Relation to adjacent materials or structure including complete information for making connections between work under this Contract and work under other contracts.
 - 4. Kinds of materials and finishes.
 - 5. Parts list and descriptions.
 - 6. Assembly drawings of equipment components and accessories showing their respective positions and relationships to the complete equipment package.
 - 7. Where necessary for clarity, identify details by reference to drawing sheet and detail numbers, schedule or room numbers as shown on the Contract Drawings.

PRODUCT DATA AND SAMPLES

SHOP DRAWINGS,

Project No. 957

- E. Drawing to scale, and accurately represent specific products furnished.
- 1.04 PRODUCT DATA/MANUFACTURERS' LITERATURE
 - A. Submit 4 original copies plus additional copies required for Contractor's use. Designer will retain four copies for distribution to City. Distribute remaining copies.
 - B. Mark each copy to clearly identify applicable products, models, options, and other data; supplement manufacturers' standard data to provide information unique to the Work.
 - C. When available, submit "SpecData" sheets.
 - D. Include manufacturers' installation instructions.
 - E. For products specified only by reference standard, give manufacturer's name, product name, model or catalog number, copy of referenced standard, and manufacturer's descriptive technical literature.
- 1.05 CONTRACTOR-PREPARED SAMPLES
 - A. Submit 4 original sets of samples plus additional copies required for Contractor's use. Designer will retain three copies for distribution to City. Distribute remaining copies.
 - B. Demonstrate functional and visual characteristics of products, complete with integral parts and attachment devices.
 - C. Submit a reasonable range of manufacturers' standard colors, textures, sheens, and patterns for selection where specific requirements are not specified, where deviations are proposed, and where the nature of the product may vary in color, vein or "grain," texture, sheen and other visible characteristics.
 - D. Sample characteristics are specified in individual Sections.
 - E. Size, unless otherwise specified:
 - 1. Paint and Liquid Coated Products: 8-1/2 x 11 inches; tape edges of samples using gypsum board as the base or substrate.
 - 2. Flat or Sheet Products: 8-1/2 x 11 inches.
 - 3. Linear Products: 11 inches long.
 - 4. Bulk Products: Copy of container label, only where label submittal is specified.

Project No. 957

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

F. Full size or on-site samples or mock-ups may be used in the Work if approved.

1.06 CONTROL SAMPLES

- A. Certain Base Facility construction establishes performance, product, workmanship, or aesthetic quality requirements for this contract.
- B. Required control samples include:
 - 1. Paint and other applied decorative coatings at sight-exposed surfaces in public spaces, regardless of substrate types; for matching compatibility, color, texture, sheen and other visual and performance characteristics of analogous new work.
- C. Include control samples with submittal to which they apply.
- D. For items transmittable by mail or hand, remove one representative sample, following Section 01312 Coordination and Meetings, and nondestructively label as "Control Sample." Process following Paragraph 1.06.
- E. Obtain control samples following Section 01731 Cutting and Patching. The control sample will be returned to the Contractor.
- F. For items impractical to remove or mail, temporarily and non-destructively tag each item in place and maintain until submittal processing is complete. Request submittal evaluation to occur on-site. Include request with submittal to which it applies.
 - 1. Provide temporary facilities following Section 01505 Temporary Facilities to provide access to and protection of control samples.
 - 2. Handle, store and protect control samples following Section 01610- Basic Product Requirements.
- G. Maintain control samples until applicable new work is completed or until directed.

1.07 PRODUCT INTERFACE CONTROL DOCUMENTS

- A. Following requirements apply where specified in other Sections.
- B. Prepare submittal data as required, to indicate proper interface between work of Subcontractors and Separate Contractors, for products of one Section or Contract required to be supported by or affixed or connected to products of another Section or Contract. Follow Section Paragraph 1.02 for review and processing requirements.
 - 1. Fully describe mating surfaces between products.

Project No. 957

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- 2. Fully describe predecessor and successor staging and sequencing of product fabrications and installations.
- C. Field corrections to mating surfaces are not permitted, unless field modification is specified in Sections.

1.08 CERTIFICATIONS AND COMPLIANCE STATEMENTS

- A. Submit 4 original copies plus additional copies required for Contractor's use. Designer will retain three copies for distribution to City. Distribute remaining copies. Include original signature and applicable original seal(s) on each copy.
- B. Certifications may be in the form of recent test results, research reports, reference data, or affidavits, as applicable to certifications required.

1.09 SUBMITTAL LOG

- A. If approved, submittal log may be incorporated into submittal schedules following Section 01325 Construction Schedules.
- B. Coordinate shop drawings, samples, product data and certifications schedule in Section 01325 Construction Schedules. Log submittals showing proposed submittal number and expected processing period for each.
- C. Denote submittals requiring special attention, such as requested shorter review time due to extraordinary conditions. Indicate reasons for special attention.
- D. Update and distribute following Sections 01312 Coordination and Meetings and 01325 Construction Schedules.

1.10 DESIGNER'S ACTIONS

- A. Comments may be added by Designer to submittal data, to inform the Contractor of detected failure of submittal data to follow contract requirements and the design concept expressed therein.
- B. Commencing work governed by submittal requirements without proper processing of required submittals is the risk of the Contractor.
 - 1. Cost increases attributable thereto are the sole responsibility of the Contractor without increase in Contract Sum.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II SHOP DRAWINGS, Project No. 957 PRODUCT DATA AND SAMPLES

- 2. Time increases attributable thereto are the sole responsibility of the Contractor under provisions of Article 9.13 (Liquidated Damages) in Document 00700 General Conditions.
- C. Responsibility for Contractor's errors and omissions or construction of defective or deficient work remains with the Contractor and is not relieved by Designer's review.
- D. Following is Designer's submittal review statement, which may be affixed to Contractor's submittal by stamp, label or separate sheet:

DESIGNER'S SUBMITTAL REVIEW STATEMENT

| | SUBMITTAL FILE NO.: |
|---------------------------------|---------------------|
| To: (Contractor) | |
| | |
| Project: Project/CIP/[AIP] No.: | |

END OF DESIGNER'S SUBMITTAL REVIEW STATEMENT

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

- 3.01 CONTROL SAMPLES
 - A. Reinstall control samples following Section 01731 Cutting and Patching.

END OF SECTION

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

01340-7 ver. 12.29.03

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

Project No. 957

DO NOT USE DOA'S STAMP AS A SUBSTITUTE FOR DESIGNER'S STAMP!

DELETE FOLLOWING EXAMPLE.

DOA/PDC SUBMITTAL REVIEW STATEMENT

SUBMITTAL FILE NO.:

SHOP DRAWINGS,

| Project No. 957 | PRODUCT DATA AND SAMPLES |
|---|---|
| To: (Contractor) | |
| • | Department of Aviation/ PDC Group/ Design Division review of this mments, if any, are on the back of this page or attached separately. |
| Product/Data: | |
| B [] MAKE CORD is not required respond to exceed C [] REVISE AND D [] RESUBMIT Contractor's secondition for responding to the condition for respondin | IONS TAKEN No further review of Submittal is required. RECTIONS AS NOTED Incorporate corrections in work; resubmittal d. If Contractor cannot comply with corrections as noted, revise to reptions and resubmit. DRESUBMIT Revise as noted and resubmit for further review. PROPERLY Submittal not reviewed because it does not contain ignature indicating its review and approval, and/or is not in proper review. WED Submittal is not required by Contract Documents. |
| for general conformance of to the requirements of the checking for deviations be for correlating and confir means, methods, techniq errors and omissions in | wed (but not if "E" is marked) only for the limited purposes of checking with the design concept as expressed in the Contract Documents, subject Contract Documents. The Contractor, not Designer, is responsible for etween the submittal and the Contract Documents and field conditions, rming dimensions and quantities, for safety precautions, construction ues, schedules, sequences, procedures and fabrication processes, for the submittals, for coordination of the work of the trades, and for a safe and satisfactory manner and following requirements of the |
| substitution of products, | other submittal as a substitute for request or approval of change or or other procedures required by the Contract Documents. Notify City intent to make any claim based on the submittal or notations thereon. |
| | al review comment appears on the submittal, the most stringent action apply. Signature does not imply that the signatory has reviewed work of essional discipline. |
| Comments: | |
| | |

| HOU CENTRAL CONCOURSE FLOOP PHASE II | SHOP DRAWINGS, |
|---|--------------------------|
| Project No. 957 | PRODUCT DATA AND SAMPLES |
| | |
| | |
| | |
| | |
| By | Date |
| (INF/ Design Division) | |
| | |

END OF DOA/PDC SUBMITTAL REVIEW STATEMENT

SECTION 01410 TPDES REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Documentation to be prepared and signed by Contractor/Operator before conducting construction operations, in accordance with the Texas Pollutant Discharge Elimination System (TPDES) Construction General Permit Number TXR150000 issued on February 8, 2018 (the Construction General Permit).
- B. Implementation, maintenance inspection, and termination of storm water pollution prevention control measures including, but not limited to, erosion and sediment controls, storm water management plans, waste collection and disposal, off-site vehicle tracking, and other appropriate practices shown on the Drawings or specified elsewhere in the Contract.
- C. Review of the Storm Water Pollution Prevention Plan (SWP3) implementation in a meeting with Project Manager prior to start of Construction.

1.02 DEFINITIONS

- A. Commencement of Construction Activities: The exposure of soil resulting from activities such as clearing, grading, and excavation activities, as well as other construction related activities (e.g. stock piling of fill material, demolition).
- B. Large Construction Activity: Project that:
 - 1. disturbs five acres or more, or
 - 2. disturbs less than five acres but is part of a larger common plan of development that will disturb five acres or more of land.
- C. Small Construction Activity: Project that:
 - 1. disturbs one or more acres but less than five acres, or
 - 2. are part of a larger common plan of development that will disturb at least 1 but less than 5 Ac.

D. TPDES Operator:

- 1. Operator The person or persons associated with a large or small construction activity that is either a primary or secondary as defined below:
 - a. Primary Operator the person or persons associated with a large or small construction activity that meets either of the following two criteria:
 - (1) the persons have operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or, the person or persons have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a storm water pollution prevention plan (SWP3) for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).
 - b. Secondary Operator –The person or entity, often the property owner, whose operational control is limited to:
 - (1) the employment of other operators, such as a general contractor, to perform or supervise construction activities, or
 - (2) the ability to approve or disapprove changes to construction plans and specifications, but who does not have day-to-day on-site operational control over construction activities at the site.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWP3)

- A. Prepare a SWP3 following Part III of the Construction General Permit and the Storm Water Management Handbook for Construction Activities issued under City Ordinance Section 47-695(b). If conflicts exist between the Construction General Permit and the handbook, the more stringent requirement will apply.
- B. Update or revise the SWP3 as needed during the construction following Part III, Section E of the Construction General Permit.
- C. Submit the SWP3 and any updates or revisions to Project Manager for review and address comments prior to commencing, or continuing, construction activities.

3.02 NOTICE OF INTENT for Large Construction Activity

- A. Fill out, sign, and date TCEQ Form 20022 (03/06/2018) Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000, ATTACHMENT 1 of this Section 01410.
- B. Transmit the signed Contractor's copy of TCEQ Form 20022 (03/06/2018), along with a \$325.00 check, made out to Texas Commission on Environmental Quality, and the completed Payment Submittal Form to Project Manager.
- C. Project Manager will complete a separate TCEQ Form 20022 (03/06/2018) for City's Notice of Intent, and will submit both Notices, along with checks for application fees, to the TCEQ.
- D. Submission of the Notice of Intent form by both the City and Contractor to CEQ if mailing is required a minimum of seven days before Commencement of Construction Activities.

3.03 CONSTRUCTION SITE NOTICE FOR SMALL CONSTRUCTION ACTIVITY

- A. Fill out, sign, and date the Construction Site Notice, Attachment 2 to TPDES General Permit TXR150000, "Small Construction Site Notice", ATTACHMENT 2 of this Section 01410.
- B. Transmit the signed Construction Site Notice to Project Manager at least seven days prior to Commencement of Construction Activity.

3.04 CERTIFICATION REQUIREMENTS

- A. Fill out TPDES Operator's Information form, ATTACHMENT 3 of this Section 01410, including Contractor's name, address, and telephone number, and the names of persons or firms responsible for maintenance and inspection of erosion and sediment control measures. Use multiple copies as required to document full information.
- B. Contractor and Subcontractors shall sign and date the Contractor's/ Subcontractor's Certification for TPDES Permitting, ATTACHMENT 4 of this Section 01410. Include this certification with other Project certification forms.
- C. Submit properly completed certification forms to Project Manager for review before beginning construction operations.
- D. Conduct inspections in accordance with TCEQ requirements. Ensure persons or firms responsible for maintenance and inspection of erosion and sediment control measures read, fill out, sign, and date the Erosion Control Contractor's certification for Inspection and Maintenance. Use the City of Houston Storm Water Pollution Prevention Plan,

Construction Site Inspection Report, ATTACHMENT 5 of this Section 01410 to record maintenance inspections and repairs.

3.05 RETENTION OF RECORDS

A. Keep a copy of this document and the SWP3 in a readily accessible location at the construction site from Commencement of Construction Activity until submission of the Notice of Termination (NOT) for Storm Water Discharges Associated with Construction Activity under TPDES Construction General Permit (TXR150000). Contractors with day-to-day operational control over SWP3 implementation shall have a copy of the SWP3 available at a central location, on-site, for the use of all operators and those identified as having responsibilities under the SWP3. Upon submission of the NOT, submit all required forms and a copy of the SWP3 with all revisions to Project Manager.

3.06 REQUIRED NOTICES

- A. Post the following notices from effective date of the SWP3 until date of final site stabilization as defined in the Construction General Permit:
 - 1. Post the TPDES permit number for Large Construction Activity, with a signed TCEQ Construction Site Notice for large or Small Construction Activity. Signed copies of the City's and Contractor's NOI must also be posted.
 - 2. Post notices near the main entrance of the construction site in a prominent place where it is safely and readily available for viewing by General Public, Local, State, and Federal Authorities. Post name and telephone number of Contractor's local contact person, brief project description and location of the SWP3.
 - a. If posting near a main entrance is not feasible due to safety concerns, coordinate posting of notice with Project Manager to conform to requirements of the Construction General Permit.
 - b. If Project is a linear construction project (e.g.: road, utilities, etc.), post notice in a publicly accessible location near active construction. Move notice as necessary.
 - 3. Post a notice to equipment and vehicles operators, instructing them to stop, check, and clean tires of debris and mud before driving onto traffic lanes. Post at each stabilized construction access area.
 - 4. Post a notice of waste disposal procedures in a readily visible location on site.

3.07 ON-SITE WASTE MATERIAL STORAGE

A. On-site waste material storage shall be self-contained and shall satisfy appropriate local, state, and federal rules and regulations.

- B. Prepare list of waste material to be stored on-site. Update list as necessary to include upto-date information. Keep a copy of updated list with the SWP3.
- C. Prepare description of controls to reduce pollutants generated from on-site storage. Include storage practices necessary to minimize exposure of materials to storm water, and spill prevention and response measures consistent with best management practices. Keep a copy of the description with the SWP3.

3.8 NOTICE OF TERMINATION

- A. Submit a NOT, ATTACHMENT 6 of this Section 01410, to Project Manager within 30 days after:
 - 1. Final stabilization has been achieved on all portions of the site that are the responsibility of the Contractor; or,
 - 2. Another operator has assumed control over all areas of the site that have not been stabilized; and
 - 3. All sit fences and other temporary erosion controls have either been removed, scheduled to be removed as defined in the SWP3, or transferred to a new operator if the new operator has sought permit coverage.
- B. Project Manager will complete City's NOT and submit Contractor and City's notices to the TCEQ and MS4 entities.

END OF SECTION

TPDES REQUIREMENTS

ATTACHMENT 1

TCEQ Office Use Only Permit No:

CN: RN:



Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000

IMPORTANT INFORMATION

Please read and use the General Information and Instructions prior to filling out each question in the NOI form.

Use the NOI Checklist to ensure all required information is completed correctly. **Incomplete applications delay approval or result in automatic denial.**

Once processed your permit authorization can be viewed by entering the following link into your internet browser: http://www2.tceq.texas.gov/wq_dpa/index.cfm or you can contact TCEQ Stormwater Processing Center at 512-239-3700.

ePERMITS

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

To submit an NOI electronically, enter the following web address into your internet browser and follow the instructions: https://www3.tceq.texas.gov/steers/index.cfm

APPLICATION FEE AND PAYMENT

The application fee for submitting a paper NOI is \$325. The application fee for electronic submittal of a NOI through the TCEQ ePermits system (STEERS) is \$225.

Payment of the application fee can be submitted by mail or through the TCEQ ePay system. The payment and the NOI must be mailed to separate addresses. To access the TCEQ ePay system enter the following web address into your internet browser: http://www.tceq.texas.gov/epay.

Provide your payment information for verification of payment:

- If payment was mailed to TCEQ, provide the following:
 - o Check/Money Order Number:
 - Name printed on Check:
- If payment was made via ePay, provide the following:
 - Voucher Number:
 - A copy of the payment voucher is attached to this paper NOI form.

| RE | ENEWAL (This portion of the NOI is not applica | ble after June 3, 2018) | | |
|------|--|------------------------------------|--|--|
| Is 1 | this NOI for a renewal of an existing authoriza | tion? □ Yes □ No | | |
| If Y | Yes, provide the authorization number here: | TXR15 Click here to enter text | | |
| NC | OTE: If an authorization number is not provide | ed, a new number will be assigned. | | |
| SE | ECTION 1. OPERATOR (APPLICANT) | | | |
| a) | If the applicant is currently a customer with T (CN) issued to this entity? CN | ΓCEQ, what is the Customer Number | | |
| | (Refer to Section 1.a) of the Instructions) | | | |
| b) | What is the Legal Name of the entity (applicar legal name must be spelled exactly as filed w County, or in the legal document forming th | vith the Texas Secretary of State, | | |
| c) | What is the contact information for the Open | rator (Responsible Authority)? | | |
| | Prefix (Mr. Ms. Miss): | | | |
| | First and Last Name: | Suffix: Mick here to enter text | | |
| | Title: Credentials: | ck here to enter text. | | |
| | Phone Number: Fax N | Jumber: Tick here to enter text | | |
| | E-mail: Thek here to enter text | | | |
| | Mailing Address: | | | |
| | City, State, and Zip Code: | (ext. | | |
| | Mailing Information if outside USA: | | | |
| | Territory: | | | |
| | Country Code: Posta | l Code: | | |
| d) | Indicate the type of customer: | | | |
| | □ Individual | ☐ Federal Government | | |
| | ☐ Limited Partnership | ☐ County Government | | |
| | ☐ General Partnership | ☐ State Government | | |
| | ☐ Trust | ☐ City Government | | |
| | ☐ Sole Proprietorship (D.B.A.) | ☐ Other Government | | |
| | ☐ Corporation | ☐ Other: | | |
| | □ Estate | | | |
| e) | Is the applicant an independent operator? | □ Yes □ No | | |

| £) | (If a governmental entity, a subsidiary, or part of a larger corporation, check No.) |
|------|---|
| f) | Number of Employees. Select the range applicable to your company. |
| | □ 0-20 □ 251-500 |
| | □ 21-100 □ 501 or higher |
| | □ 101-250 |
| g) | Customer Business Tax and Filing Numbers: (Required for Corporations and Limited Partnerships. Not Required for Individuals, Government, or Sole Proprietors.) |
| | State Franchise Tax ID Number: |
| | Federal Tax ID: |
| | Texas Secretary of State Charter (filing) Number: |
| | DUNS Number (if known): |
| SE | CTION 2. APPLICATION CONTACT |
| | the application contact the same as the applicant identified above? |
| 13 (| |
| | ☐ Yes, go to Section 3 |
| _ | □ No, complete this section |
| | efix (Mr. Ms. Miss): |
| | st and Last Name: Suffix: |
| | cle: Credential: |
| | ganization Name: |
| | one Number: Fax Number: |
| E-r | nail: Click here to enter text |
| Ma | iling Address: |
| Int | ernal Routing (Mail Code, Etc.): |
| Cit | ry, State, and Zip Code: |
| Ma | uling information if outside USA: |
| Te | rritory: Mak hara to enter text |
| Co | untry Code: Postal Code: |
| SE | CTION 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE |
| a) | If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN |
| | (Refer to Section 3.a) of the Instructions) |
| | |

| b) | Name of project or site (the name known by the community where it's located): |
|----------|--|
| c) | In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): |
| d) | County or Counties (if located in more than one): |
| e) | Latitude: Longitude: |
| f) | Site Address/Location |
| | If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete <i>Section A</i> . |
| | If the site does not have a physical address, provide a location description in <i>Section B</i> . Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1. |
| | Section A: |
| | Street Number and Name: |
| | City, State, and Zip Code: |
| | Section B: |
| | Location Description: |
| | City (or city nearest to) where the site is located: |
| | The Code where the site is leasted. |
| | Zip Code where the site is located: |
| SE | CTION 4. GENERAL CHARACTERISTICS |
| SE a) | |
| | CTION 4. GENERAL CHARACTERISTICS |
| | CTION 4. GENERAL CHARACTERISTICS Is the project or site located on Indian Country Lands? Pes, do not submit this form. You must obtain authorization through EPA Region |
| a) | CTION 4. GENERAL CHARACTERISTICS Is the project or site located on Indian Country Lands? ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6. ☐ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources? |
| a) | Is the project or site located on Indian Country Lands? ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6. ☐ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal |
| a) | Is the project or site located on Indian Country Lands? □ Yes, do not submit this form. You must obtain authorization through EPA Region 6. □ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources? □ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA |
| a) b) | Is the project or site located on Indian Country Lands? ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6. ☐ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources? ☐ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6. |
| a) b) | Is the project or site located on Indian Country Lands? ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6. ☐ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources? ☐ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6. ☐ No What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? |
| a) b) | Is the project or site located on Indian Country Lands? ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6. ☐ No Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources? ☐ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6. ☐ No What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? |

| | □ Yes |
|----|---|
| | □ No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites. |
| g) | What is the estimated start date of the project? |
| h) | What is the estimated end date of the project? |
| i) | Will concrete truck washout be performed at the site? \square Yes \square No |
| j) | What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? |
| k) | What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? |
| 1) | Is the discharge into a Municipal Separate Storm Sewer System(MS4)? |
| | □ Yes □ No |
| | If Yes, provide the name of the MS4 operator: |
| | Note: The general permit requires you to send a copy of this NOI form to the MS4 operator. |
| m) | Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213? |
| | ☐ Yes, complete the certification below. |
| | □ No, go to Section 5 |
| | I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented. |
| SE | CTION 5. NOI CERTIFICATION |
| a) | I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000). |
| b) | I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. \Box Yes |
| c) | I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. $\hfill\square$ Yes |
| d) | I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the Construction General Permit (TXR150000). |
| | Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3, provided all obligations are confirmed by at least one operator. |

| SECTION 6. APPLICANT CERTIFICATION SIGNATURE |
|--|
| Operator Signatory Name: Operator Signatory Title: |
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. |
| I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request. |

Signature (use blue ink): ______Date: _____

NOTICE OF INTENT CHECKLIST (TXR150000)

Did you complete everything? Use this checklist to be sure!

Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

Confirm each item (or applicable item) in this form is complete. This checklist is for use by the applicant to ensure a complete application is being submitted. **Missing information may result in denial of coverage under the general permit.** (See NOI process description in the General Information and Instructions.)

| APPLICATION FEE |
|---|
| If paying by check: |
| ☐ Check was mailed separately to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.) |
| ☐ Check number and name on check is provided in this application. |
| If using ePay: |
| ☐ The voucher number is provided in this application and a copy of the voucher is attached. |
| RENEWAL |
| ☐ If this application is for renewal of an existing authorization, the authorization number is provided. |
| OPERATOR INFORMATION |
| ☐ Customer Number (CN) issued by TCEQ Central Registry |
| ☐ Legal name as filed to do business in Texas. (Call TX SOS 512-463-5555 to verify.) |
| \square Name and title of responsible authority signing the application. |
| □ Phone number and e-mail address |
| ☐ Mailing address is complete & verifiable with USPS. <u>www.usps.com</u> |
| ☐ Type of operator (entity type). Is applicant an independent operator? |
| □ Number of employees. |
| \square For corporations or limited partnerships – Tax ID and SOS filing numbers. |
| ☐ Application contact and address is complete & verifiable with USPS. http://www.usps.com |
| REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE |
| □ Regulated Entity Number (RN) (if site is already regulated by TCEQ) |
| ☐ Site/project name and construction activity description |
| □ County |
| ☐ Latitude and longitude http://www.tceq.texas.gov/gis/sqmaview.html |

| ☐ Site Address/Location. Do not use a rural route or post officebox. |
|---|
| GENERAL CHARACTERISTICS |
| ☐ Indian Country Lands –the facility is not on Indian Country Lands. |
| □ Construction activity related to facility associated to oil, gas, or geothermal resources |
| ☐ Primary SIC Code that best describes the construction activity being conducted at the site. www.osha.gov/oshstats/sicser.html |
| □ Estimated starting and ending dates of the project. |
| □ Confirmation of concrete truck washout. |
| \square Acres disturbed is provided and qualifies for coverage through a NOI. |
| □ Common plan of development or sale. |
| □ Receiving water body or water bodies. |
| □ Segment number or numbers. |
| □ MS4 operator. |
| □ Edwards Aquifer rule. |
| CERTIFICATION |
| ☐ Certification statements have been checked indicating Yes. |
| ☐ Signature meets 30 Texas Administrative Code (TAC) §305.44 and is original. |

Instructions for Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit(TXR150000)

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

By Regular Mail: By Overnight or Express Mail:

TCEQ

Stormwater Processing Center (MC228) Stormwater Processing Center (MC228)

P.O. Box 13087 12100 Park 35 Circle

Austin, Texas 78711-3087 Austin, TX

Application Fee:

The application fee of \$325 is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit. Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

Mailed Payments:

Use the attached General Permit Payment Submittal Form. The application fee is submitted to a different address than the NOI. Read the General Permit Payment Submittal Form for further instructions, including the address to send the payment.

ePAY Electronic Payment: http://www.tceq.texas.gov/epay

When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

TCEQ Contact List:

Application – status and form questions: 512-239-3700, swpermit@tceq.texas.gov Technical questions: 512-239-4671, swgp@tceq.texas.gov

Environmental Law Division: 512-239-0600 Records Management - obtain copies of forms: 512-239-0900

Reports from databases (as available): 512-239-DATA (3282)

Cashier's office: 512 239-0357 or 512-239-0187

Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

Administrative Review: Each item on the form will be reviewed for a
complete response. In addition, the operator's legal name must be
verified with Texas Secretary of State as valid and active (if applicable).
The address(es) on the form must be verified with the US Postal service
as receiving regular mail delivery. Do not give an overnight/express
mailing address.

- **Notice of Deficiency:** If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.

or

Denial of Coverage: If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

General Permit (Your Permit)

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For paper NOIs, provisional coverage under the general permit begins **7 days** after a completed NOI is postmarked for delivery to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site http://www.tceq.texas.gov. Search using keyword TXR150000.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated project or site changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number, if one has not already been assigned to this customer or site.

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser: http://www15.tceq.texas.gov/crpub/ or you can contact the TCEQ Stormwater Processing Center at 512-239-3700 for assistance. On the website, you can search by your permit number, the Regulated Entity (RN) number, or the Customer Number (CN). If you do not know these numbers, you can select "Advanced Search" to search by permittee name, site address, etc.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For this permit, a Notice of Change form must be submitted to the programarea.

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

Renewal of General Permit. Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied, a new permit number will be issued.

Section 1. OPERATOR (APPLICANT)

a) Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number**.

If the applicant is an existing TCEQ customer, the Customer Number is available at the following website: http://www15.tceq.texas.gov/crpub/. If the applicant is not an existing TCEQ customer, leave the space for CN blank.

b) Legal Name of Applicant

Provide the current legal name of the applicant. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, as filed in the county. You may contact the SOS at 512-463-5555, for more information related to filing in Texas. If filed in the county, provide a copy of the legal documents showing the legal name.

c) Contact Information for the Applicant (Responsible Authority)

Provide information for the person signing the application in the Certification section. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: https://tools.usps.com/go/ZipLookupAction!input.action.

The phone number should provide contact to the applicant.

The fax number and e-mail address are optional and should correspond to the applicant.

d) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for an authorization.

Individual

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEO.

Partnership

A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). If the customer is a 'General Partnership' or 'Joint Venture' filed in the county (not filed with TX SOS), the legal name of each partner forming the 'General Partnership' or 'Joint Venture' must be provided. Each 'legal entity' must apply as a co-applicant.

Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

Sole Proprietorship (DBA)

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- 1. be under the person's name
- 2. have its own name (doing business as or DBA)
- 3. have any number of employees.

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

Corporation

A customer that meets all of these conditions:

- 1. is a legally incorporated entity under the laws of any state or country
- 2. is recognized as a corporation by the Texas Secretary of State
- 3. has proper operating authority to operate in Texas

The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

Government

Federal, state, county, or city government (as appropriate)

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization is not recognized as the 'legal name'.

Other

This may include a utility district, water district, tribal government, college district, council of governments, or river authority. Provide the specific type of government.

e) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

f) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

g) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter the Tax ID number.

Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512-463-5555.

DUNS Number

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

Section 2. APPLICATION CONTACT

Provide the name and contact information for the person that TCEQ can contact for additional information regarding this application.

Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) Regulated Entity Number (RN)

The RN is issued by TCEQ's Central Registry to sites where an activity is regulated by TCEQ. This is not a permit number, registration number, or license number. Search TCEQ's Central Registry to see if the site has an assigned RN at http://www15.tceq.texas.gov/crpub/. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, an RN may already be assigned for the larger site. Use the RN assigned for the larger site.

If the site is found, provide the assigned RN and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

b) Name of the Project or Site

Provide the name of the site or project as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

c) Description of Activity Regulated

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

d) County

Provide the name of the county where the site or project is located. If the site or project is located in more than one county, provide the county names as secondary.

e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to: http://www.tceq.texas.gov/gis/sqmaview.html.

f) Site Address/Location

If a site has an address that includes a street number and street name, enter the complete address for the site in *Section A*. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street number and street name, provide a complete written location description in *Section B.* For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and zip code of the site location.

Section 4. GENERAL CHARACTERISTICS

a) Indian Country Lands

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA Region 6, Dallas. Do not submit this form to TCEQ.

b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas (RRC) and may need to obtain authorization from EPA Region 6.

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a

carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

For more information about the jurisdictions of the RRC and the TCEQ, read the Memorandum of Understanding (MOU) between the RRC and TCEQ at 16 Texas Administrative Code, Part 1, Chapter 3, Rule 3.30, by entering the following link into an internet browser:

http://texreg.sos.state.tx.us/public/readtac\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30 or contact the TCEQ Stormwater Team at 512-239-4671 for additional information.

c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 Construction of Single Family Homes
- 1522 Construction of Residential Buildings Other than Single Family Homes
- 1541 Construction of Industrial Buildings and Warehouses

- 1542 Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 Highway and Street Construction, except Highway Construction
- 1622 Bridge, Tunnel, and Elevated Highway Construction
- 1623 Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser: http://www.osha.gov/pls/imis/sicsearch.html or you can contact the TCEQ Small Business and Local Government Assistance Section at 800-447-2827 for assistance.

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser: http://www.osha.gov/pls/imis/sicsearch.html or you can contact the TCEQ Small Business and Environmental Assistance Section at 800-447-2827 for assistance.

e) Total Number of Acres Disturbed

Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at 512-239-4671 or by email at swgp@tceq.texas.gov.

f) Common Plan of Development

Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on what a common plan of development is, refer to the definition of "Common Plan of Development" in the Definitions section of the general permit or enter the following link into your internet browser: www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

For further information, go to the TCEQ stormwater construction webpage enter the following link into your internet browser: www.tceq.texas.gov/goto/construction and search for "Additional Guidance and Quick Links". If you have any further questions about the Common Plan of Development you can contact the TCEQ Stormwater Team at 512-239-4671 or the TCEQ Small Business and Environmental Assistance at 800-447-2827.

g) Estimated Start Date of the Project

This is the date that any construction activity or construction support activity is initiated at the site. If renewing the permit provide the original start date of when construction activity for this project began.

h) Estimated End Date of the Project

This is the date that any construction activity or construction support activity will end and final stabilization will be achieved at the site.

i) Will concrete truck washout be performed at the site?

Indicate if you expect that operators of concrete trucks will washout concrete trucks at the construction site.

j) Identify the water body(s) receiving stormwater runoff

The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

k) Identify the segment number(s) of the classified water body(s)

Identify the classified segment number(s) receiving a discharge directly or indirectly. Enter the following link into your internet browser to find the segment number of the classified water body where stormwater will flow from the site: www.tceq.texas.gov/waterquality/monitoring/viewer.html or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

You may also find the segment number in TCEQ publication GI-316 by entering the following link into your internet browser: www.tceq.texas.gov/publications/gi/gi-316 or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at 512-239-4671 for further assistance.

l) Discharge into MS4 - Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a

copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512-239-4671.

m) Discharges to the Edwards Aquifer Recharge Zone and Certification

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer by entering the following link into an internet browser: www.tceq.texas.gov/field/eapp/viewer.html or by contacting the TCEQ Water Quality Division at 512-239-4671 for assistance.

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site-specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

Section 5. NOI CERTIFICATION

Note: Failure to indicate Yes to all of the certification items may result in denial of coverage under the general permit.

a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. Electronic applications submitted through ePermits have immediate provisional coverage. You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site by entering the following link into an internet browser: www.tceq.texas.gov/goto/construction or you may contact the TCEQ Stormwater processing Center at 512-239-3700 for assistance.

b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512-463 5555, for more information related to filing in Texas.

c) Understanding of Notice of Termination

A permittee shall terminate coverage under the Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

Section 6. APPLICANT CERTIFICATION SIGNATURE

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

If you are a corporation:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

If you are a municipality or other government entity:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at 512-239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

- (a) All applications shall be signed as follows.
- (1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the

corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

- (2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.
- (3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

Project No. 255

Texas Commission on Environmental Quality General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are mailing your payment.

Instructions:

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- Do not mail this form with your NOIform.
- Do not mail this form to the same address as your NOI.

Mail this form and your check to either of the following:

By Regular U.S. Mail
Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, TX 78711-3088

By Overnight or Express Mail
Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, TX 78753

| ice douci din denerali elimici inici | Fee Code: | GPA | General Permit: | TXR15000 |
|--------------------------------------|-----------|-----|-----------------|----------|
|--------------------------------------|-----------|-----|-----------------|----------|

- 1. Check or Money Order No:
- 2. Amount of Check/Money Order:
- 3. Date of Check or Money Order:
- 4. Name on Check or Money Order:
- 5. NOI Information:

If the check is for more than one NOI, list each Project or Site (RE) Name and Physical Address exactly as provided on the NOI. **Do not submit a copy of the NOI with this form, as it could cause duplicate permit application entries!**

If there is not enough space on the form to list all of the projects or sites the authorization will cover, then attach a list of the additional sites.

Project/Site (RE) Name:
Project/Site (RE) Physical Address:

Staple the check or money order to this form in this space.

CITY OF HOUSTON STANDARD GENERAL REQUIREMENT

TPDES REQUIREMENTS

ATTACHMENT 2



SMALL CONSTRUCTION SITENOTICE

FOR THE

Texas Commission on Environmental Quality (TCEQ) Stormwater Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.E.2.** of the TCEQ General Permit Number TXR150000 for discharges of stormwater runoff from small construction sites. Additional information regarding the TCEQ stormwater permit program may be found on the internet at:

http://www.tceq.state.tx.us/nav/permits/wq construction.html

| Operator Name: | | | |
|---|---|--|--|
| Contact Name and Phone Number | | | |
| | | | |
| Project Description: Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized | | | |
| Location of Stormwater Pollution Prevention Plan: | | | |
| the following certification must be completed: | Inder Part II.E.2. (Obtaining Authorization to Discharge) | | |
| I | | | |
| Signature and Title | Date | | |
| | Date NoticeRemoved | | |
| | MS4 operator notified per Part II.F.3. | | |

CITY OF HOUSTON STANDARD GENERAL REQUIREMENT

TPDES REQUIREMENTS

ATTACHMENT 3

TPDES OPERATOR'S INFORMATION

| Owner's Name and Address: | City of Houston |
|---|--|
| | Mr(City Official) |
| Contractors' Names and Addre | (Department) 1002 Washington Ave, 2 nd FL Houston, TX 77002 (832) 394-9108 esses: |
| | |
| General Contractor: | |
| Telepho | ne: |
| Site Superintendent: | |
| | |
| Telepho | ne: |
| Erosion Control and Maintenance Inspection: | |
| Telepho | ne: |
| Subcontractors' Names and Ad | ddresses: |
| | |
| Phone: | Phone: |

Note: Insert name, address, and telephone number of person or firms

CITY OF HOUSTON STANDARD GENERAL REQUIREMENT

TPDESREQUIREMENTS

ATTACHMENT 4

CONTRACTOR'S / SUBCONTRACTOR'S

CERTIFICATION FOR TPDES PERMITTING

I certify under penalty of law that I understand the terms and conditions of TPDES General Permit No. TXR150000 and the Storm Water Pollution Prevention Plan for the construction site identified as part of this certification.

| Signature: | |
|--------------------------|--|
| Name: (printed or typed) | |
| Title: | |
| Company: | |
| Address: | |
| Date: | |
| | |
| Signature: | |
| Name: (printed or typed) | |
| Title: | |
| Company: | |
| Address: | |
| Date: | |
| | |
| Signature: | |
| Name: (printed or typed) | |
| Title: | |
| Company: | |
| Address: | |
| Date: | |

CITY OF HOUSTON
STANDARD GENERAL REQUIREMENT

TPDES REQUIREMENTS

ATTACHMENT 5

| City of Houston Storm Water Quality Construction Site Activities Inspection Report TCEQ Stormwater Discharge Permit Number | | | | | | |
|--|---|--|--|--|--|--|
| | | | | | | |
| COH Storm Water Quality Perr | nit Number | | | | | |
| COH Building Permit Log | gin Number | | | | | |
| NAME | DATE | | | | | |
| ADDRESS | | | | | | |
| ■ No exceptions noted. | | | | | | |
| The following deficiencies | | | | | | |
| NOI / Construction Site Notic | 186 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 1 184 | | | | | |
| Stormwater Pollution Preven requires updating | tion Plan Incomplete or | | | | | |
| Copy of NOI / CSN not on sit | te | | | | | |
| ☐ Storm Water Pollution Preven | | | | | | |
| ☐ Erosion and sediment contro | | | | | | |
| ☐ Erosion and sediment contro | | | | | | |
| maintained | | | | | | |
| ☐ Fueling/washout/chemical st | orage areas not properly | | | | | |
| protected Portocan or other sanitary fa | cilities not properly protected | | | | | |
| or leaking | clittles not properly protected | | | | | |
| ☐ Self-inspection and maintena | ance records incomplete | | | | | |
| ■ Sediment from site outside a | rea of construction | | | | | |
| Other (see description below | ') | | | | | |
| | - | | | | | |
| | | | | | | |
| The deficiencies mediately; | within 48 hours; | | | | | |
| Should the noted deficiencies not indicated, further enforcement re | | | | | | |
| For questions concerning the above: Please contact the Storm Water Quality Group at 1002 Washington Avenue, 2nd Floor, Houston TX 77002 832-394-9108 | | | | | | |
| Inspector's Name | Operator's Signature | | | | | |
| Inspector's Cell Phone | Operator's Name ☐ not present | | | | | |
| Distribution: white – Stormwater Quality | Engineer gold – operator | | | | | |

CITY OF HOUSTON STANDARD GENERAL REQUIREMENT

TPDES REQUIREMENTS

ATTACHMENT 6





Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

IMPORTANT INFORMATION:

Please read and use the General Information and Instructions prior to filling out each question in the form.

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

ePermits: This form is available on our online permitting system. Sign up for online permitting at: https://www3.tceq.texas.gov/steers/

TXR15 of the permit number has TXRCW man permit number has

What is the permit number to be terminated?

| Se | ction 1. OPERATOR (Permittee) | | | | |
|----|---|--|--|--|--|
| a) | What is the Customer Number (CN) issued to this entity? | | | | |
| | CN intercustomer number here | | | | |
| b) | What is the Legal Name of the current permittee? | | | | |
| | inter legal name of current permittee here | | | | |
| c) | Provide the contact information for the Operator (Responsible Authority). | | | | |
| | Prefix (Mr. Ms. or Miss): | | | | |
| | First and Last Name: Suffix: | | | | |
| | Title: Credentials: | | | | |
| | Phone Number: Fax Number: | | | | |
| | Email: enter email address here | | | | |
| | Mailing Address: | | | | |
| | City, State, and Zip Code: | | | | |
| | Country Mailing Information, if outside USA: | | | | |

Section 2. APPLICATION CONTACT

This is the person TCEQ will contact if additional information is needed regarding this application.

Is the application contact the same as the permittee identified above?

 \square Yes, go to Section 3.

IAH TB & TC SKYWAY STATION CARPET REPLACEMENT Project No. 255 □ No, complete section below Prefix (Mr. Ms. or Miss): First and Last Name: Suffix: Credentials: Title: Phone Number: Fax Number: Email: Mailing Address: City, State, and Zip Code: Country Mailing Information, if outside USA: Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE a) TCEQ issued RE Reference Number (RN): RN b) Name of project or site as known by the local community: c) County, or counties if more than 1: Longitude: d) Latitude: e) Site Address/Location: If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete Section 3A. If the site does not have a physical address, provide a location description in Section 3B. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1. Section 3A: Physical Address of Project or Site: Street Number and Name: City, State, and Zip Code: **Section 3B: Site Location Description: Location description:** City where the site is located or, if not in a city, what is the nearest city: Zip Code where the site is located:

Section 4. REASON FOR TERMINATION

Check the reason for termination:

☐ Final stabilization has been achieved on all portions of the site that are the responsibility of the Operator and all silt fences and other temporary erosion controls have been removed, or scheduled for removal as defined in the SWP3.

Another permitted Operator has assumed control over all areas of the site that have not been finally stabilized, and temporary erosion controls that have been identified in the SWP3 have been transferred to the new Operator. ☐ The discharge is now authorized under an alternate TPDES permit. ☐ The activity never began at this site that is regulated under the general permit. Section 5. CERTIFICATION Signatory Name: Signatory Title: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and

submit this document, and can provide documentation in proof of such authorization upon

Signature (use blue ink):

Date:

IAH TB & TC SKYWAY STATION CARPET REPLACEMENT

Project No. 255

request.

Instructions for Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

GENERAL INFORMATION

Where to Send the Notice of Termination (NOT):

BY REGULAR U.S. MAIL: BY OVERNIGHT/EXPRESS MAIL:

Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)

Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)

P.O. Box 13087 12100 Park 35 Circle Austin, Texas 78711-3087 Austin, TX 78753

TCEQ Contact List:

Application status and form questions: 512-239-3700, swpermit@tceq.texas.gov
Technical questions: 512-239-4671, swpermit@tceq.texas.gov

Environmental Law Division: 512-239-0600 Records Management - obtain copies of forms: 512-239-0900

Reports from databases (as available): 512-239-DATA (3282)

Cashier's office: 512 239-0357 or 512-239-0187

Notice of Termination Process:

A Notice of Termination is effective on the date postmarked for delivery to TCEQ.

When your NOT is received by the program, the form will be processed as follows:

- 1) Administrative Review: The form will be reviewed to confirm the following:
 - the permit number is provided;
 - the permit is active and has been approved;
 - the entity terminating the permit is the current permittee;
 - the site information matches the original permit record; and
 - the form has the required original signature with title and date.
- 2) Notice of Deficiency: If an item is incomplete or not verifiable as indicated above, a phone call will be made to the applicant to clear the deficiency. A letter will not be sent to the permittee if unable to process the form.
- 3) Confirmation of Termination: A Notice of Termination Confirmation letter will be mailed to the operator.

Change in Operator:

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted not later than 10 days prior to the change in Operator status.

INSTRUCTIONS FOR FILLING OUT THE FORM

The majority of permit information related to the current operator and regulated entity are available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

Section 1. Operator (Current Permittee):

a) Customer Number (CN)

TCEQ's Central Registry assigns each customer a number that begins with CN, followed by nine digits. This is not a permit number, registration number, or license number. The Customer Number, for the current permittee, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

b) Legal Name of Operator

The operator must be the same entity as previously submitted on the original Notice of Intent for the permit number provided. The current operator name, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

c) Contact Information for the Operator (Responsible Authority)
Provide information for person signing the NOT application in the Certification section.
This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. Update the address if different than previously submitted for the Notice of Intent or Notice of Change. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: https://tools.usps.com/go/ZipLookupAction!input.action.

The phone number should provide contact to the operator.

The fax number and e-mail address are optional and should correspond to the operator.

Section 2. Application Contact:

Provide the name, title and contact information of the person that TCEQ can contact for additional information regarding this application.

Section 3. Regulated Entity (RE) Information on Project or Site:

a) Regulated Entity Reference Number (RN)
 A number issued by TCEQ's Central Registry to sites where an activity regulated by TCEQ.
 This is not a permit number, registration number, or license number. The Regulated Entity Reference Number is available at the following website:
 http://www2.tceq.texas.gov/wq_dpa/index.cfm.

- b) Name of the Project or Site Provide the name of the site as known by the public in the area where the site is located.
- c) County Identify the county or counties in which the regulated entity is located.
- d) Latitude and Longitude Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. The latitude and longitude as provided on the current authorization is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.
- e) Site/Project (RE) Physical Address/Location Information
 The physical address/location information, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

- Section 3A. If a site has an address that includes a street number and street name, enter the complete address for the site. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate the site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.
- Section 3B. If a site does not have an address that includes a street number and street name, provide a complete written location description. For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and Zip Code of the facility location.

Section 4. Reason for Termination:

The Notice of Termination form is only for use to terminate the authorization (permit). The Permittee must indicate the specific reason for terminating by checking one of the options. If the reason is not listed then provide an attachment that explains the reason for termination.

Please read your general permit carefully to determine when to terminate your permit. Permits will not be reactivated after submitting a termination form. The termination is effective on the date postmarked for delivery to TCEQ.

Section 5. Certification:

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code §305.44.

IF YOU ARE A CORPORATION:

The regulation that controls who may sign an application form is 30 Texas Administrative Code §305.44(a), which is provided below. According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a), which is provided below. According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statutes under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a) (3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at 512-239-0600.

30 Texas Administrative Code §305.44. Signatories to Applications

- (a) All applications shall be signed as follows.
- (1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.
- (2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.
- (3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957 REFERENCES

SECTION 01423 REFERENCES

PART 1 **GENERAL**

1.01 **SECTION INCLUDES**

- A. General quality assurance related to Reference Standards.
- B. List of references.
- C. List of definitions.
- D. List of phrases.

AGC

1.02 **QUALITY ASSURANCE**

- A. For work specified by association, trade, or Federal Standards, follow requirements of the standard, except when more rigid requirements are specified or are required by applicable codes or by Contract Documents.
- Follow reference standard effective on the date stated in Document 00700 General B. Conditions.
- Submit Document 00685- Request for Information before proceeding if specified reference C. standards conflict with Contract Documents, or if no standards apply.

PARTIAL LIST OF REFERENCES 1.03

AA Aluminum Association ASME American Soc. of Mech. Engrs. 900 19th St. N.W. Three Park Ave. Washington, DC 20006 New York, NY 10016-5902

Ph: 202-862-5100 Ph: 212-591-7733 AASHTO Amer. Assoc. of State Hwy. Officials ΑI Asphalt Institute 444 North Capitol Street, N.W. #249 Research Park Dr. Washington, DC 20001 P.O. Box 14052

Ph: 202-624-5800 Lexington, KY 40512-4052 Ph: 859-288-4960 ACI American Concrete Institute

P.O. Box 9094 AITC American Institute of Timber Construction Farmington Hills, MI 48333-9094 7012 S. Revere Pkwy, #140

Englewood, CO 80112 Ph: 248-848-3700 Ph: 303-792-9559 Associated General Contractors of America

333 John Carlyle St., #200 **AISC** American Institute of Steel Construction

Alexandria, VA 22314 1 E. Wacher Dr., #3100 Ph: 703-548-3118 Chicago, IL 60601-2001

REFERENCES

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957 REFERENCES

| | Ph: 312-670-2400 | | |
|-------|---------------------------------------|-------------|---|
| AISI | American Iron & Steel Institute | CRSI | Conc. Reinforced Steel Institute |
| | 1101 17th Street, N.W., #1300 | | 933 N. Plum Grove Road |
| | Washington, DC 20036 | | Schaumburg, IL 60173-4758 |
| | Ph: 202-452-7100 | | Ph: 847-517-1200 |
| ANSI | American Natl. Stds. Institute | EJMA | Expansion Joint Manufacturers Assoc. |
| | 25 W. 43 rd St., 4 Floor | | 25 N. Broadway |
| | New York, NY 10036 | | Tarrytown, NY 10591 |
| | Ph: 212-642-4900 | | Ph: 914-332-0040 |
| APA | The Engineered Wood Assoc. | FS | Federal Standardization Documents |
| | 7011 So. 19 th , | | Gen. Svcs. Admin. Specifictns. Unit (WFSIS) |
| | Tacoma, WA 98466 | | 7th and D Streets, S.W. #6039 |
| | Ph: 253-565-6600 | | Washington, DC 20407 |
| API | American Petroleum Institute | | Ph: 202-472-2205 |
| | 1220 L Street, N.W. | HAS | (City of) Houston Airport System |
| | Washington, DC 20005-4070 | | P.O. Box 60106 (16930 JFK Blvd., 77032) |
| | Ph: 202-682-8000 | | Houston, TX 77205-0106 |
| AREA | Amer. Railway Engrg. Assoc. | | Ph: 281-233-3000 |
| | 8201 Corporate Dr., #1125 | HOU | William P. Hobby Airport (Airport Manager) |
| | Landover, MD 20785 | | 7800 Airport Blvd. |
| | Ph: 301-459-3200 | | Houston, Texas 77061 |
| ASTM | American Soc. for Testing & Materials | | Ph: 713-640-3000 |
| | 100 Barr Harbor Dr., | IAH | George Bush Intercontinental Airport Houston |
| | PO Box C700 | | (Airport Manager) |
| | West Conshohocken, PA 19428-2959 | | 2800 N. Terminal Road |
| | Ph: 610-832-9585 | | Houston, TX 77032 |
| AWPA | American Wood-Preservers' Association | | Ph: 281-230-3100 |
| | PO Box 388 | ICEA | Insulated Cable Engineer Association |
| | Selma, AL 36702-0388 | | P.O. Box 1568 |
| | Ph: 334-874-9800 | | Carrollton, GA 30112 |
| AWS | American Welding Society | IEEE | Institute of Electrical and Electronics Engineers |
| | 550 N.W. LeJeune Rd. | | 445 Hoes Lane, or P.O. Box 1331 |
| | Miami, FL 33126 | | Piscataway, NJ 08854-1331 |
| | Ph: 800-443-9353 | | Ph: 732-981-0060 |
| AWWA | Amer. Water Works Assoc. | MIL | Military Specifications (see "FS" for address) |
| | 6666 West Quincy Avenue | NACE | National Association of Corrosion Engineers |
| | Denver, CO 80235 | | 440 1 st St. N.W. |
| | Ph: 303-794-7711 | | Washington, DC 20001 |
| BICSI | Bldg. Industry Consulting Svc. Intl. | | Ph: 202-393-6226 |
| | 8610 Hidden River Pkwy. | NARTE | National Association of Radio and |
| | Tampa, FL 33637-1000 | | Telecommunications Engineers, Inc. |
| | Ph: 800-242-7405 | | 167 Village Street |
| СОН | City of Houston | | P.O. Box 678 |
| | 900 Bagby Street (Box 1562) | | Medway, MA 02053 |
| | Houston, TX 77251-1562 | | Ph: 508-533-8333, 800-896-2783 |
| | Ph: 713-837-0311 | NEMA | National Electrical Manufacturers' Association |
| CLFMI | Chain Link Fence Mfgrs Inst. | | 1300 North 17 th Street, Suite 1847 |
| | 10015 Old Columbia Rd., #B-215 | | Rosslyn, VA 22209 |
| | Columbia, MD 21046 | | Ph: 703-841-3200 |

REFERENCES

Ph: 301-596-2583

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II

Project No. 957 REFERENCES

| NFPA | National Fire Protection Association 1 Batterymarch Park, P.O. Box 9101 Quincy, MA 02169-7471 Ph: 617-770-3000 | SDI | Steel Deck Institute P.O. Box 25 Fox River Grove, IL 60021 Ph: 847-458-4647 |
|------|---|--------|--|
| OSHA | Occupational Safety Health Administration 200 Constitution Avenue, NW Washington, DC 20210 Ph: 866-487-2365 | SSPC | The Society for Protective Coatings 40 24 th Street, 6 th Floor Pittsburgh, PA 15222-4656 Ph: 412-281-2331 |
| PCA | Portland Cement Association 5420 Old Orchard Road Skokie, IL 60077-1083 Ph: 847-966-6200 | TAC | Texas Admin. Code, Texas Water Development Board Box 13231, Capitol Station Austin, TX 78711-3231 |
| PCI | Prestressed Concrete Institute 201 North Wacker Drive Chicago, IL 60606 Ph: 312-786-0300 | UL | Ph: 512-463-7926 Underwriters' Laboratories, Inc. 333 Pfingston Road Northbrook, IL 60062-2096 Ph: 877- 854-3577, 800-285-4476 |
| | | UNI-BI | ELL UNI-BELL Pipe Association 2655 Villa Creek Dr., Suite 155 Dallas, TX 75234 Ph: 972-243-3902 |

1.04 PARTIAL LIST OF DEFINITIONS

Airport: Area of land or water used or intended to be used for landing and takeoff of aircraft and includes buildings and facilities. Airports under control of City are certificated by FAA under FAR Part 139 and operate under specific safety requirements applicable to maintenance and construction activities.

Airport Manager: Individual delegated by Director of Department of Aviation, with absolute responsibility and authority for overall airport operation and compliance with FAR Part 139. Airport Manager shall communicate with Contractor through City Engineer except in case of emergency when City Engineer is not present. The Airport Manager may delegate responsibilities to other persons, such as airport electricians to coordinate lockouts/tag-outs.

Air Operations Area (AOA): Any area of Airport used or intended to be used for landing, takeoff, or surface maneuvering of aircraft, including paved or unpaved areas used or intended to be used for unobstructed movement of aircraft in addition to associated runway, taxiway, or apron. The AOA includes any adjacent areas (such as general aviation areas) that are not separated by adequate security systems, measures, or procedures.

Airport Security Officers: 1) Uniformed City of Houston Police (HPD) officers enforcing airport regulations and apprehension of unauthorized personnel in security areas; 2) Non-uniformed federal or local government personnel authorized to test for compliance with existing regulations. Air Traffic Control Tower (ATCT): Person responsible for positive control of aircraft and vehicle traffic, including Contractor's, on and around runways, taxiways, and aprons.

Base Facility: Existing structure upon and within which the Work is constructed. "Existing construction" and "existing" mean the same as Base Facility.

> 1. By way of general description, Base Facility includes sidewalks and pavement; foundations; superstructure columns, beams and floors; exterior and interior walls, partitions and doors; mechanical and electrical systems; conveying systems; interior finish materials.

REFERENCES

- a. Underground structures include sewer, water, gas, fuel and other piping, and manholes, chambers, electrical and signal conduits, ducts, tunnels, manholes and other means of access, foundations and below-ground extensions of surface structures and other existing subsurface Work located within or adjacent to the limits of the Work.
- b. Surface structures include existing buildings, tanks, masts and poles, navigational aids, walls, bridges, roads, dams, channels, open drainage, piping, wires, posts, signs, markers, curbs, walks, pavements and surfaces for wheeled vehicles (including aircraft), guard cables, fencing, lighting and similar constructs above the ground surface or visible without excavation, demolition or cutting.

DOT: Acronym for U.S. Department of Transportation.

Emergency Medical Service: Operational division of Houston Fire Department.

Emergency Vehicles: ARFF, HPD and EMS vehicles operating in emergency mode.

Federal Aviation Administration (FAA): Agency of U.S. Department of Transportation. FAA also means FAA's Administrator or Administrator's duly authorized representative.

Ground Support Equipment (GSE): Mobile and stationary vehicles and equipment for servicing aircraft.

Navigation Aids (NAVAIDS): Equipment used to locate aircraft and direct movement while airborne.

Public areas: Areas where no accessibility restrictions are imposed, generally including roadways, streets, parking lots and structures, and building interiors up to but not including baggage and passenger checkpoints at concourses.

Secured Area: Any portion of the airport where aircraft operators (and foreign air carriers that have a security program under part 1544 or 1546) enplane and deplane passengers, sort and load baggage, and any adjacent areas not separated by adequate security measures.

Security Areas, Security Identification Areas (SIDAs): 1.) AOA; 2) Secured Areas: Exterior or interior areas the access to which is controlled by authorized security personnel or by keyed or electronic locks, and which may have posted notice of restricted access.

Traffic Activity: In-the-air or on-the-ground aircraft and emergency vehicle activity that, determined by ATCT, Airport Manager or City Engineer because of safety reasons, prohibits the start, continuation or completion of construction operations.

Transportation Security Administration (TSA): Agency of U.S. Department of Transportation charged with implementing and enforcing federal airport security rules and regulations. TSA also means TSA's Undersecretary or the Undersecretary's duly authorized representative(s).

TSR: an acronym for Transportation Security Regulation.

1.05 PARTIAL LIST OF PHRASES

- A. Read "includes" and "including" as having the phrase "but not necessarily limited to" immediately following the words, if not otherwise written out.
- B. "Required" means products, labor and services provided by the Contractor to properly complete the Work following the Contract Documents and the design concept expressed therein, such required work being determined and governed by field or shop conditions.

1.06 PARTIAL LIST OF ABBREVIATIONS AND ACRONYMS

- A. Following abbreviations and acronyms may appear on Drawings and in other Sections:
 - 1. CFP: City-furnished product(s).
 - 2. CSP: Contractor-salvaged product(s).
 - 3. NIC or N.I.C.: Not in contract.
 - 4. NOTAM: Notice to Airman.
 - 5. PDC: Department of Aviation Planning Design Construction Group.
 - 6. RFI: Request for Information/Clarification.
 - 7. RFP: Request for Proposal.
 - 8. WCD: Work Change Directive.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957 REFERENCES

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

REFERENCES

01423-6 rev. 10.10.06

SECTION 01450 CONTRACTOR'S QUALITY CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General requirements for Contractor's quality control services.
- B. Contractor's responsibilities related to City's testing are specified in Section 01455 City's Acceptance Testing.

1.02 GENERAL

- A. Maintain source and on-site quality control over suppliers, manufacturers, products, services, site conditions, quality assurance programs, and workmanship, to provide work of required quality at no additional cost to the City.
- B. Follow manufacturers' installation instructions, including each step-in sequence.
- C. Request clarification from City Engineer before proceeding should manufacturers' instructions conflict with Contract Documents.
- D. Follow specified standards as minimum requirements for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce the specified level of workmanship.
- F. Observe, inspect, collect samples and test samples of the Work as it progresses and as required for compliance with Document 00700 General Conditions Paragraph 3.2.
 - 1. At Contractor's discretion, retain a testing laboratory to supplement manufacturers' own product testing programs, except do not retain the same testing laboratory retained by City under Section 01455 City's Acceptance Testing.

2

Additional responsibilities of Contractor related to testing are specified in Section 01455City's Acceptance Testing.

1.03. CONTRACTOR'S QUALITY ASSURANCE PROGRAM (QAP)

- A. Implement and maintain a QAP of inspection, sampling, testing, and observation and test results reporting for the Work, applicable to product source, fabrication, mixing, and through final installation, to provide proper work.
- B. Submit required submittals and requests for information (RFIs) into the HAS's web-based application, Microsoft SharePoint. Access to the SharePoint portal and required training will be coordinated through the Project Manager. Submit Contractor's Quality Assurance Program (QAP), following Section 01340 Shop Drawings, Product Data and Samples, with following minimum information:
 - 1. Organization chart indicating Contractor's QAP personnel.
 - 2. Inspection, Sampling and Testing Matrix/ Schedule: Overlaid with requirements of Section 01325 Construction Schedules and Section 01455 City's Acceptance Testing.
 - 3. Sample QAP reporting forms.
 - 4. Procedures for action to correct defective work.
 - 5. Procedures to implement and manage the QAP.
 - 6. Submit one copy of Contractor's written QAP Inspection, Test, and Daily Reports to City and one copy to ITL, on a daily basis, indicating:
 - a. Project Name, Number, CIP Number.
 - b. Date/time of inspection/sampling/test, and quantity of product involved.
 - c. Product or installation batch, mill number, or production run number, and method used to assure statistically based random sampling following ASTM D3665.
 - d. Environmental conditions where applicable to results.
 - e. Name and signature of observer or tester, certifying as follows:
 - "The above work was inspected/sampled and tested in the manner described, and the result(s) are hereby certified by the undersigned as complete and accurate."
 - f. Product or installation inspected, by Section number, and location of inspection (such as product source, fabrication shop, or on site), and quantity of product tested.

- g. Location in the Work, by Drawing/detail number, floor number, range/station number, or other specific identifier traceable to the Drawings.
- h. Type of inspection or test (such as visual; non-destructive X-ray), and type of test by referenced standard test number.
- i. Type of inspection, sample or test products used.
- j. Performance standard required.
- k. Factual evidence and results of inspections, measurements or tests stated as "pass" or "fail."
- 1. Factual evidence and record of observations and tests. Include nature and type of failure, and comments as applicable.

C. Contractor's QAP Personnel for Sitework:

- 1. Quality Control Manager: Sole responsibility for management, implementation and control of the QAP; an employee of Contractor and specialist in type of applicable construction. If not an officer of firm, this person shall report to an officer.
 - a. Duties and Responsibilities: Plan, organize, staff, direct and control the QC Program; supervise QCTs (below); collate and review detail reports of QC activities for accuracy and completeness before publication, and prepare factual summary reports. The QCM may work projects other than this project, except QCM shall be present at times of sampling, testing or observation, within 2 hours of notice.
 - b. Demonstrated experience in parking garage paving construction and quality assurance compliance equivalent in scope and complexity to work of this contract, plus one of the following minimums:
 - 1) Registered civil engineer, with 1 year above experience.
 - 2) Engineer-in-Training, with 2 years above experience.
 - 3) Graduate Bachelor of Science degree in Civil Engineering, Civil Engineering Technology or Construction, with 3 years above experience.
 - 4) National Institute for Certification in Engineering Technologies (NICET), Level III, certified Construction Materials Technician, Highway Materials Technician, or Highway Construction Technician, with 4 years above experience.

- 5) NICET-certified Civil Engineering Technician, with 5 years above experience, and approved by the City Engineer.
- 2. Quality Control Technicians (QCT): Responsibility for processing this QC Program; report to the QCM.
 - a. Duties and Responsibilities: Inspect work, collect samples, take measurements, test work, collate test and measurement data, and prepare factual, accurate and complete reports. Use as many QCTs as required. QCTs may be Contractor's employees or personnel of a qualified ITL subcontracted to the Contractor, except do not use City's ITL to fulfill Contractor's testing requirements.
 - b. Demonstrated experience in same construction as QCM, and quality assurance compliance equivalent in scope and complexity to work of this contract, plus one of the following minimums:
 - 1) Engineer or Engineering Technician, with 1 year above experience.
 - 2) NICET Level II or higher certification as Construction Materials Technician, Highway Materials Technician, or Highway Construction Technician, with 2 years above experience.
 - 3. Equivalent certifications by authorities other than NICET may be substituted following Section 01630.
- D. Contractor's QAP Personnel for Buildings:
 - 1. Quality Control Manager: Sole responsibility for management, implementation and control of the QAP; an employee of the Contractor and specialist in type of applicable construction. If not an officer of firm, this person shall report to an officer.
 - a. Duties and Responsibilities: Plan, organize, staff, direct and control the QC Program; supervise QCT staff (below); collate and review detail reports of QC activities for accuracy and completeness before publication, and prepare factual summary reports. The QCM may work projects other than this project, except QCM shall be present at times of sampling, testing or observation, within 2 hours of notice.
 - b. Demonstrated experience in building Structural construction and quality assurance compliance equivalent in scope and complexity to work of this contract, plus one of the following minimums:
 - 1) Registered structural engineer, with 1 year above experience.
 - 2) Engineer-in-Training, with 2 years above experience.

CONTRACTOR'S QUALITY CONTROL

- 3) Graduate Bachelor of Science degree in structural engineering, with 3 years above experience.
- 2. Quality Control Technicians (QCT): Responsibility for processing QAP; report to the QCM.
 - a. Duties and Responsibilities: Inspect work, collect samples, take measurements, test work, collate test and measurement data, and prepare factual, accurate and complete reports. Use as many QCTs as required. QCTs may be Contractor's employees or personnel of a qualified ITL subcontracted to the Contractor, except do not use City's ITL to fulfill Contractor's testing requirements.
 - b. Engineer or Engineering Technician, with minimum 1 year demonstrated experience in same construction as QCM, and quality assurance compliance equivalent in scope and complexity to work of this contract.

1.03 REFERENCES

A. Obtain copies of referenced standards and maintain at site when required by other Sections.

1.04 MANUFACTURER'S FIELD SERVICES

- A. When specified in other Sections or when conditions are required to maintain schedule, cost or quality control, provide services of properly qualified manufacturer's or supplier's technical representative(s) to observe field conditions, conditions of substrates and installation, quality of workmanship, startup, testing, adjusting, balancing, demonstration and City-personnel training as required.
- B. Within 14 days of observation, submit a written report to City Engineer, prepared by manufacturer's representative, documenting their observations, supplementary instructions and instructions at variance with manufacturer's written instructions, and, where applicable, recommendations for corrective action. Costs and time for corrective action is Contractor's responsibility, without increase in Contract Sum or Time.

1.05 SUBCONTRACTS

- A. Coordinate work of subcontractors. Inform subcontractors of relation of their work to that of other subcontractors and Separate Contractors and direct scheduling of work to prevent conflicts or interferences.
- B. Employ subcontractors with documented proof of proper completion of two projects during the past 3 years of work similar in scope, type and quality as that required for this contract.

1.06 EXAMINATION AND PREPARATORY WORK

- A. Carefully examine substrates whether Base Facility or provided as part of the Work before commencing work applied to or accommodated by substrates. Proceed after unsatisfactory conditions are corrected, and after substrate work is properly prepared and complete.
- B. Take field dimension and establish and maintain lines, dimensions, and benchmarks as required to control proper fabrication and installation of work.
- C. Do not proceed with affected work until unsatisfactory site conditions and substrates are correct.
 - 1. Make written notification of scope and type of corrections required of separate contracts.
- D. Repair remaining substrates following Section 01731 Cutting and Patching.

1.07 CONTRACTOR'S TESTING

A. Follow Document 00700 - General Conditions Paragraphs 3.9.2 and this Section 01450.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 INSPECTIONS BY BUILDING OFFICIALS AND OTHER AGENCIES

A. Immediately notify City Engineer of the date of inspections by governing authorities, in order for City Engineer to attend.

END OF SECTION

SECTION 01455 CITY'S ACCEPTANCE TESTING

PART 1 GENERAL

| 1 | .01 | 1 C | EC' | $\Gamma I C$ | M | M | \neg T I | ID | FS |
|---|-------|-----|-------|--------------|-------|------|------------|----|-------|
| | . () | | 1 7 / | 110 | , I N | 1111 | | | 1 7 1 |

- A. City [has retained _____ as] [will retain an] Independent Testing Laboratory (ITL) for following services:
 - 1. Collect product samples at source, site of fabrication, or project site as required by referenced test procedure, as specified herein or in other Sections.
 - 2. Test product samples at source, site of fabrication, project site or in ITL's laboratory as required by referenced test procedure, as specified herein or in other Sections.
 - 3. Inspect execution of work at source, site of fabrication, or project site, as applicable, as specified herein or in other Sections.
 - 4. Record and distribute observations of work during inspections, indicating "pass" or "fail."
 - 5. Record and distribute results of tests, indicating "pass" or "fail."
 - 6. ITL does not have authority to:
 - a. Release, revoke, alter, or enlarge requirements of Contract Documents.
 - b. Approve or accept work.
 - c. Assume duties of Contractor.
 - d. Stop the Work or a part thereof.
- B. Where requirements for acceptance testing appear in other Sections, without reference to this Section 01455, inspect and test that work following requirements in those Sections and this Section 01455.

1.02 CONTRACTOR'S RESPONSIBILITIES

A. Notify City Engineer, ITL and Designer minimum 24 hours prior to expected time for inspections or sample collections. Schedule ITL's, City Engineer's, and Designer's presence for timely inspections, observations, and sample collection without delay to the

CITY'S ACCEPTANCE TESTING

Work.

- B. Provide access to the Work and cooperate with ITL for inspection and sample collection.
- C. Furnish samples of manufactured products to ITL for inspection and testing.
- D. Provide incidental labor, products, services and facilities for sample collection and for transportation and handling of samples to ITL's vehicle or to ITL's on-site test facility.
- E. Reimburse City by Modification (Section 01255 Modification Procedures) for costs of retesting previously "failed" work, including time expended by City's personnel related thereto.
- F. Time delays and costs resulting from ill-timed QC work are the Contractor's responsibility, without increase in Contract Time or Price.
- G. Follow Document 00700 General Conditions Paragraph 3.2 and Section 01450-Contractor's Quality Control.
- H. Perform work following requirements of Contract Documents.
- I. Read reports of failed tests or measurements. Implement corrective actions to prevent defective work from proceeding farther.
- J. Stop affected work when corrective action fails to bring work to required standards.
- K. Remove defective work following Section 01731 and replace with proper work.
- L. Inspect, sample and test Base Facility Section 01726, as required to determine and confirm acceptability of existing construction as substrate for new construction.
- M. If Contractor employs a testing laboratory, follow ASTM D3740 and ASTM E329, plus other test standards specified in other Sections.
- N. Not Used.
- O. Not Used.
- P. Contractor shall not:
 - 1. Employ for Contractor's quality assurance testing the same ITL employed by the City for this Project.
 - 2. Retain possession of ITL's samples.
- 1.03 SUBMITTALS BY ITL

- A. Submit 3 copies of following to City:
 - 1. Written certification of compliance with following:
 - a. ASTM D3740 Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
 - b. ASTM E329 Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.
 - 2. Copy of latest inspection report by Materials Reference Laboratory/ National Bureau of Standards (NBS) or inspection traceable thereto, with statement of remedies of deficiencies.
 - 3. Invoice for retesting previously "failed" work.
- B. Submit 5 copies of following, 3 to City, 2 to Contractor. Immediately transmit "fail" reports by facsimile directly to City and to Contractor.
 - 1. Project Name, Number, CIP Number
 - 2. Identify ITL, Contractor, Subcontractor or Supplier, Section number and name, generic and manufacturer's name of product, numerical sequence when more than one inspection, sample or test of the same product is made, date and time of each inspection, sample collection or test, and applicable Drawing detail number.
 - 3. Date/time of inspection/sampling/test, and quantity of product involved.
 - 4. Product or installation batch, mill number, or production run number, and method used to assure statistically based random sampling following ASTM D3665.
 - 5. Environmental conditions where applicable to results.
 - 6. Name and signature of observer or tester, certifying as follows: "The above work was inspected/sampled and tested in the manner described, and the result(s) are hereby certified by the undersigned as complete and accurate."
 - 7. Product or installation inspected, by Section number, and location of inspection (such as product source, fabrication shop, or on site), and quantity of product tested.
 - 8. Location in the Work, by Drawing/detail number, floor number, range/station number, or other specific identifier traceable to the Drawings.
 - 9. Type of inspection or test (such as visual; non-destructive X-ray), and type of test by ASTM or other reference standard test number.

- 10. Type of inspection, sample or test equipment used.
- 11. Performance standard required
- 12. Factual evidence and results of inspections, measurements or tests stated as "pass" or "fail."
- 13. Factual evidence and record of observations and tests. Include nature and type of failure, and comments as applicable. Furnish graphic or narrative data, or both, indicating nominal requirements and actual test values. Indicate type and numerical value of deviations from specified requirements.
- 14. For submittals using SI (metric) measure as the ITL's standard, include corresponding Imperial measure conversions. Follow Section 01610 Basic Product Requirements.
- C. Print and distribute copies of records.
- D. Transmit reports within 7 days of observations, inspections or test completion, except where shorter processing time is required due to possibility of Contractor continuing installation of "failing" work.
- E. For data in the form of drawings:
 - 1. Submit one vellum sepia or electrostatic transparency (emulsion side "up") with one diazo print to City Engineer. Submit one diazo print to Contractor.
 - 2. Sheet Size: 8-1/2 x 11 inches minimum; 44 x 34 inches maximum.
 - 3. If CADD is used, prepare documents readable, writable and printable using IBM PC-compatible hardware and software, based on AutoCAD (11 or later versions) or software translated thereto. Provide copy of AutoCAD data disks to City Engineer
 - 4. Prepare drawings by qualified drafters.
 - 5. Draw to scale, and accurately represent products.
- F. For statistical records in the form of spreadsheets or graphs:
 - 1. Submit electrostatic prints.
 - 2. Sheet Size: 8-1/2 x 11 inches minimum; 11 x 17 inches maximum.
 - 3. Provide copy of data disks to City Engineer at completion of the Work.

PART 2 PRODUCTS

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II Project No. 957 CITY'S ACCEPTANCE TESTING

2.01 SAMPLING AND TEST EQUIPMENT

A. Provide and maintain in proper function sampling and test equipment of type and quantity required, with calibration and accuracy traceable to NBS.

PART 3 EXECUTION

3.01 GENERAL PROCEDURES

- A. Follow requirements of individual Sections.
- B. Not Used.
- C. Coordinate inspections, sampling and testing with construction progress and Contractor's schedule specified in Section 01325 Construction Schedules.
- D. At least once per shift inspect mixing, fabrication and installation of soil, cementitious and petroleum-based products for proper operation or tolerances. Confirm installers and tool operators are qualified, and tools are properly functioning.
- E. Sample at frequencies following requirements of applicable Sections or as specified herein and test each sample.
- F. Take quantity, linear, volume and bulk measurements as frequently as necessary to control mixing, fabrication and installation.
- G. Properly calibrate test equipment and measuring tools before use.
- H. Immediately report failed tests or measurements.
- I. Test work for proper function and performance as specified herein and in other Sections.

INSPECTION AND OBSERVATION

- A. Inspect work by properly experienced personnel. Observe mixing, fabrication and installation procedures. Record observations.
- B. Inspect at frequency indicated, using visual observation and measuring tools appropriate to the work. If not otherwise required in other Sections, inspect product source at the site of origin.

3.03 SAMPLING

A. Unless otherwise indicated in Sections or otherwise required by test standard, randomly collect 3 samples and maintain possession until observation and testing is complete and results documented.

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- B. Collect and handle samples following test standard.
- C. Coordinate operations with Contractor.

3.04 TESTING

- A. Test products *in situ* as approved by City Engineer or in laboratory where destructive tests are required, test to product failure. Note factual observations, test results, and measuring equipment setup, typed or legibly handwritten. For graph illustrations, use computerized database or spreadsheets.
- B. Store and cure samples following test standards or as required to maintain samples in pristine condition until tested.
- C. Test samples for conformance with requirements.
- D. Follow test standards specified herein and in other Sections.

3.05 SCHEDULE OF INSPECTIONS, SAMPLES AND TESTS

A. Observe mixing, fabrication and installation, and inspect, collect samples and test, as indicated in applicable Sections.

END OF SECTION

SECTION 01505 TEMPORARY FACILITIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General temporary facilities:
 - 1. Utilities and environmental systems.
 - 2. Sanitary facilities.
 - 3. Field office.
 - 4. Storage sheds, buildings and lay-down areas.
 - 5. General-purpose radios. ATCT radios are specified in Section 01640 City-Furnished Products.
 - 6. Fire protection.
 - 7. Protection of the Work and property.
 - 8. Interim cleaning.
 - 9. Disposal of trash and debris.
- B. Temporary facilities for exterior work:
 - 1. Barricades.
 - 2. Hazard lighting.
 - 3. Access roads and parking.
 - 4. Environmental controls.
 - 5. Disposal of excavated material.
 - 6. Control of erosion and water runoff.
- C. Temporary facilities for interior work:

TEMPORARY FACILITIES

- 1. Barricades and enclosures, including those for accessways and exit ways.
- 2. Hazard lighting.
- 3. Environmental controls.
- 4. Existing electrical power, water, and HVAC are available at interior construction projects for Contractor's use at no charge by City Engineer.
- D. Provide temporary product handling facilities and construction aids, such as scaffolds, staging, ladders and stairs, protective railings, hoists, chutes and other facilities, as required for construction operations and to protect persons, property and products. Follow governing agency requirements for scope, type and location if not otherwise specified.
- E. Follow Section 01326 Construction Sequencing for mobilization and demobilization requirements.
- F. Temporary facilities specified herein are minimum standards. Provide additional facilities as required for proper execution of the Work and to meet responsibilities for protection of persons and property.
- G. Properly install temporary facilities.
- H. Maintain in proper operating condition until use is no longer required or as otherwise approved.
- I. Modify and extend temporary facilities as required by Work progress.
- J. Restore existing facilities used temporarily, to specified or original condition following Section 01731 Cutting and Patching.
- K. Provide weather protection and environmental controls as required to prevent damage to remaining Base Facility, the Work, and to other property.
- L. Not Used.
- M. Follow regulatory agency requirements for required temporary facilities not specified herein.
- N. Where disposal of spoil and waste products, whether or not they are contaminated, is required under this or other Sections, make legal dispositions off site following governing authorities' requirements, unless on-site disposition is allowed under this or other Sections.

1.02 SUBMITTALS

A. Follow Section 01340 - Shop Drawings, Product Data and Samples.

- B. Submit shop drawings and descriptive data showing:
 - 1. Enclosure and barricade construction.
 - 2. Enclosure and barricade layout if different from that shown on Drawings, including for each stage if applicable.
- C. Not Used.
- 1.03 GENERAL REQUIREMENTS FOR UTILITIES AND ENVIRONMENTAL SYSTEMS
 - A. Make arrangements with utility service companies for temporary services.
 - B. Follow rules and regulations of utility service companies or authorities having jurisdiction.
 - C. Maintain utility service until Substantial Completion, including fuel, power, light, heat, and other utility services necessary for execution, completion, testing, and initial operation of the Work.
 - D. Follow Section 01312 Coordination and Meetings for advance notifications and approvals of shutdowns of existing services and systems.

Designer must obtain approval of City Engineer and edit following for source of water and electrical service applicable to this project PRIOR TO ISSUING FINAL PLANS TO BIDDERS:

- E. Water: Provide water for construction, at Contractor's sole cost and expense except as otherwise required below. Coordinate location and type of temporary water service with and obtain approval from City Engineer.
 - 1. For water obtained direct from water mains or fire hydrants, obtain permit or license from proper authorities, and install temporary meter if applicable.
 - 2. For water obtained downstream from Department of Aviation meter, City will provide water without cost for construction operations. Obtain approval of tap types, locations, and pipe routing. Provide valves and pipe as required.
 - 3. For drinking water for personnel, provide potable water in proper dispensing containers, except public drinking fountains close to interior construction projects are available as long as use by Contractor does not impede airport operations or increase airport maintenance.
- F. Electrical Power: Provide power for lighting, operation of Contractor's plant or tools, or other uses by Contractor, at Contractor's sole cost and expense, except as otherwise required

below. Coordinate location and type of temporary power service with and obtain approval from City Engineer.

- 1. For power obtained direct from electric mains, obtain permit or license from proper authorities, and install temporary meter if applicable.
- 2. For power obtained downstream from Department of Aviation meter, City will provide power, without cost for construction operations, however, this shall be solely at the discretion of the City Engineer. Tap existing electrical panels and circuits at locations and ampacities approved by City Engineer. Obtain approval of tap types, locations, and conduit/wire routing. Provide switches as required.
- 3. Provide temporary power service or generators to power construction operations and to power existing facilities during main service shutdowns, and at locations where proper commercial power is not available.
- G. Lighting: Provide lighting in construction areas, or other areas used by Contractor, at Contractor's sole cost and expense, except as otherwise required below. Coordinate location and type of temporary light fixtures with and obtain approval from City Engineer.
 - 1. Provide explosion-resistant fixtures in areas where fuel is stored, handled or dispensed.
 - 2. Minimum Lighting Level: 5-foot candles for open areas; 10-foot candles for exitways. Provide minimum of one 300W lamp per 20 square feet of work area.
- H. Heat and Ventilation: Provide temporary heat and ventilation as required for protection or completion of the Work and to control dust, odors and other environmental contaminants. Provide safe working conditions. Maintain enclosed work areas, including interior work areas, at minimum of 50 degrees F.

1.04 SANITARY FACILITIES

- A. Provide one portable self-contained chemical toilet/urinal for each 25 workers for exterior construction projects or construction areas not close to existing public restrooms. Place at reasonably secluded locations conveniently accessible to workers. Follow regulations of State and local departments of health.
- B. Enforce use of sanitary facilities.
- C. Supply and service temporary sanitary units at least twice per week. Legally dispose of waste off-site.

1.05 CONTRACTOR'S FIELD OFFICE

- A. Furnish and maintain portable building(s) for Contractor's field office, located on-site as shown on Drawings or in a place approved by City Engineer. Include furnishings and equipment as required by Contractor for proper construction operations and with following minimums when used by City Engineer or Designer:
 - 1. Structurally sound foundation and superstructure.
 - 2. Completely weathertight with insulated roof and walls.
 - 3. Exterior finish acceptable to City Engineer.
 - 4. Slip-resistant entry ramp sloped 1:12 maximum, with handrail platform (5x5 feet) with mud scraper at door. Supplemental and railings and slip-resistant stairs as required. Follow requirements of Americans with Disabilities Act.
 - 5. Interior finishes acceptable to City Engineer.
 - 6. Screened windows sufficient for light, view, and ventilation.
 - 7. Minimum Parking: 2 all weather hard surfaced parking spaces, all-weather paving, for use by City Engineer and Designer, connected to office by walkway.
- B. Not Used.
- C. Field Office Using Existing Interior Facilities: (Not Used)
- D. Minimum Services for Contractor's Field Office:
 - 1. Interior lighting of 50 foot-candles at desktop height.
 - 2. Exterior light at entrance.
 - 3. Automatic HVAC to maintain 65 degrees F in winter, 70 degrees F in summer.
 - 4. Electric power service.
 - 5. Two telephone lines:
 - a. One for voice, with telephone instrument.
 - b. One for facsimile, with facsimile instrument.
 - c. For use by Contractor's personnel and others performing work or services. Pay for cost of local calls. Directly bill applicable parties for cost of long distance, without cost to the contract.
 - 6. Minimum one cellular telephone, in possession of Superintendent at all times.

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- 7. One digital pager per shift supervisor.
- 8. Base station for general-purpose radios, if radios are used.
- 9. Chilled drinking water.
- 10. Unisex restroom with plumbing facilities and sewers as required, one water closet, one urinal, one lavatory, one mirror. Protect from freezing.
- 11. Conference table and chairs to accommodate [__] persons.
- E. Maintenance for Field Office:
 - 1. Continuous maintenance of office, accessways, and services; clean not less than once per week;
 - 2. Provide soap, paper towels, cleansers, janitorial service and appurtenances;
 - 3. Immediately repair damage, leaks or defective service.
- 1.06 STORAGE SHED, BUILDINGS AND LAY-DOWN AREAS
 - A. Store products neatly and orderly onsite, arranged to allow inspection, identification and inventory, at locations approved by City Engineer.
 - B. When lack of or ill-timed environmental control systems could damage products, store in bonded off-site facilities approved by manufacturer, supplier or fabricator.
 - C. Provide suitable and substantial storage sheds, rooms, covers, or other facilities, for storage of material subject to contamination or damage from other construction operations. Provide environmental control to maintain products within manufacturers' required limits, when required. Storage of materials not susceptible to weather damage may be on blocks off the ground.
 - D. Do not overload Base Facility structure. Provide temporary shoring or bracing as required to prevent damage to structures.
- 1.07. GENERAL-PURPOSE RADIOS
 - A. Not Used.
 - B. Provide proper FCC licenses for operators.

TEMPORARY FACILITIES

1.08 FIRE PROTECTION

- A. Follow fire protection and prevention requirements specified herein and those established by Federal, State, or local governmental agencies.
- B. Follow applicable provisions of NFPA Standard No. 241, Safeguarding Building Construction and Demolition Operations.
- C. Provide portable fire extinguishers, rated not less than 2A or 5B following NFPA Standard No. 10, Portable Fire Extinguishers, for field office and for every 3000 square feet of floor area of facilities under construction, located within 50 feet maximum from any point in the protection area.
- D. Prohibit smoking in hazardous areas. Post suitable warning signs in areas which are continuously or intermittently hazardous.
- E. Use metal safety containers for storage and handling of flammable and combustible liquids.
- F. Do not store flammable or combustible products inside occupied buildings or near stairways or exits.
- G. Maintain clear exits from all points in the Work.

1.09 PROTECTION OF THE WORK AND PROPERTY

- A. Take precautions, provide programs, and take actions necessary to protect the Work and public and private property from damage.
- B. Prevent damage to existing public and private utilities and systems during construction. Utilities are shown on Drawings at approximate locations, but this information is not warranted as complete or accurate. Give City Engineer at least 48 hours notice before commencing work in the area, for locating the utilities during construction, and for making adjustments or relocation of the utilities when they conflict the Work.
 - 1. Utilize the Utility Coordinating Committee One Call System, telephone number, (713) 223-4567, called 48 hours in advance. The toll-free telephone number is 1-800-245-4545, Texas One Call System.
 - 2. Follow Section 01726 Base Facility Survey, to determine existing utilities and systems.
 - 3. Follow Section 01761 Protection of Existing Services, to make coordination efforts for each existing Service that requires protection.
- C. Provide safe barricades and guard rails around openings, for scaffolding, for temporary stairs and ramps, around excavations, accessways, and hazardous areas.

- D. Obtain written consent from proper parties, before entering or occupying with workers, tools, or products on privately-owned land, except on easements required by the Contract Documents.
- E. Assume full responsibility for preservation of public and private property on or adjacent to the site. If direct or indirect damage is done by or on account of any act, omission, neglect, or misconduct in execution of the Work by Contractor, restore by Contractor, at no cost or time increase, to a condition equivalent to or better than that existing before the damage was done.
- F. Where work is performed on or adjacent to roadways, rights-of-way, or public places, provide barricades, fences, lights, warning signs, and danger signals sufficient to prevent vehicles from being driven on or into Work under construction.
 - 1. Paint barricades to be visible from sunset to sunrise
 - 2. Install at least one flashing hazard light at each barricade section.
 - 3. Furnish watchmen in sufficient numbers to protect the Work.
 - 4. Other measures for protection of persons or property and protection of the Work.
- G. Protect existing trees, shrubs, and plants on or adjacent to the site against unnecessary cutting, breaking or skinning of branches, bark, or roots.
 - 1. Do not store products or park vehicles within drip lines.
 - 2. Install temporary fences or barricades in areas subject to damage from traffic.
 - 3. Water trees and plants to maintain their health during construction operations.
 - 4. Cover exposed roots with burlap and keep continuously wet. Cover exposed roots with earth as soon as possible. Protect root systems from physical damage and damage by erosion, flooding, run-off, or noxious materials contamination.
 - 5. Repair branches or trunks if damaged, prune branches immediately and protect the cut or damaged areas with emulsified asphalt compounded specifically for horticultural use in a manner approved by City Engineer.
 - 6. Remove and replace damaged trees and plants that die or suffer permanent injury. Replace with product of equivalent size and in good health.
 - 7. Coordinate this work with Division 2 requirements for clearing and landscaping.
- H. Protection of Existing Structures:

- 1. Fully sustain and support in place and protect from direct or indirect injury underground and surface structures located within or adjacent to the limits of the Work.
 - a. Before proceeding with sustaining and supporting work on property of others, satisfy City Engineer that the owner of the property approves the methods and procedures proposed.
- 2. Do not move or in any way change the property of public utilities or private service corporations without prior written consent of a responsible official of that service or public utility. Representatives of these utilities reserve the right to enter within the limits of the Work for the purpose of maintaining their properties, or of making changes or repairs to their property considered necessary by performance of the Work.
 - a. Notify the owners and/or operators of utilities and pipelines of the nature of construction operations proposed and the date or dates on which those operations will be performed. When construction operations are required in the immediate vicinity of existing structures, pipelines, or utilities, give minimum 5 working days advance notice. Probe and securely flag locations of underground utilities prior to beginning excavation.
- 3. Assume all risks attending presence or proximity of existing construction within or adjacent to the limits to the Work including but not limited to damage and expense for direct or indirect injury caused by the Work to existing construction. Immediately repair damage caused, following Section 01731.
- I. Protect installed products to prevent damage from subsequent operations. Remove protection facilities when no longer needed.
 - 1. Control traffic to prevent damage to products and surfaces.
 - 2. Provide coverings to protect products from damage. Cover projections, wall corners, jambs, sills, and off-site of openings in areas used for traffic and for passage of product in subsequent work.

1.10 ACCESS ROADS AND PARKING

- A. Not Used.
- B. Not Used.
- C. Public, Temporary, and Construction Roads and Ramps:
 - 1. Public Roads: Follow laws and regulations of governing authorities when using public roads. If Contractor's work requires public roads be temporarily impeded or closed, obtain approvals from governing authorities and pay for permits before starting work.

Coordinate activities with City Engineer following Section 01312 - Coordination and Meetings.

- 2. On-Site Roads: Prepare temporary roads, construction roads, ramps, and areas on the site to be accessible for trucking and equipment.
- 3. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage. Extend and relocate as approved by City Engineer as Work progress requires, provide detours as necessary for unimpeded traffic flow. Maintain 12-foot width access road with turning space between and around combustible materials. Provide and maintain access for fire trucks to fire hydrants free of obstructions.
 - a. Do not use limestone for paving.
- 4. Obtain approval of special requirements covering handling exceptionally large or heavy trucks, cranes, or other heavy equipment. Provide mats or other means, so roadways are not overloaded or otherwise damaged.
- D. Submit access road and parking locations to City Engineer for approval.

PART 2 PRODUCTS

2.01 GENERAL

- A. Provide products for temporary construction using equivalent type as required for permanent construction, except "construction grade" quality may be used (such as for wood framing, enclosures and barricades, and construction locks).
- B. Where materials for use in this Section are not specified or detailed, propose products in writing and obtain approval from City Engineer before commencing work.

2.02 TEMPORARY EXTERIOR ENCLOSURES AND BARRICADES

- A. Not Used.
- B. Provide temporary fencing as required to enclose exterior storage/staging and demolition areas, during on-site operations, chain link fence at remote areas (away from Terminal buildings), and chain link fence with plywood overlay at on-site areas (adjacent to or near Terminal buildings and AOA).
 - 1. Chain Link: Minimum 6-foot high commercial quality galvanized fabric, galvanized steel or minimum 4 x 4 treated wood posts at 8 feet on center maximum, gate frames as required, with barbed wire at top if required by Contractor. For natural earth areas, provided minimum 8-inch diameter by 3-foot deep hole for posts. Fill annular space with pea gravel or crushed stone. For paved areas, provide welded base plate on each

post and attach to paving with drill-in or powder actuated fasteners of size and quantity required to resist imposed loads. Provide corner bracing and struts as required to maintain erect fencing and taut fabric. Provide gate locks of Contractor's choice. Provide one set of keys to City Engineer.

- 2. Plywood Overlay: Exterior grade, minimum 3/4 inch-thick, 8-feet-high. Tie plywood with wire to public side of chain link fence and gates. Paint exterior (public) face with flat latex-based paint to match "Nevamar Pepperdust" plastic laminate.
- C. Barricades in Safety Areas of Taxiways and Aprons at AOA: Preservative-treated wood construction, maximum 3 feet high sawhorse legs at both ends of one 8-inch-high top rail, with 45 degree-angled white and orange hashmarks, on 4 by 4-inch wood posts and struts bolted to 12 by 12-inch continuous timber base. Install hazard lights at maximum 6 feet centers and at each end and corners of the barricade. Sandbag wood frame to prevent overturning by jet blast or prop wash.
- D. Not Used.
- 2.03 TEMPORARY INTERIOR ENCLOSURES AND BARRICADES (NOT USED)
- 2.04 HAZARD LIGHTS (NOT USED)
- 2.05 TEMPORARY UTILITY AND ENVIRONMENTAL SYSTEMS WORK (NOT USED)

PART 3 EXECUTION

- 3.01 CONTRACTOR'S FIELD OFFICE
 - A. Install field office ready for occupancy, 10 days after date fixed in Notice to Proceed.
- 3.02 ENCLOSURE AND BARRICADE, SIGN, AND HAZARD LIGHT INSTALLATION
 - A. Fill and grade site for temporary structures to provide drainage away from buildings. Follow Section 01506- Temporary Controls and 01572 Erosion and Sedimentation Control for erosion and sedimentation control.
 - B. Follow Section 01507 Temporary Signs.
 - C. Install and maintain enclosures and barricades, passageways, signs and lights at locations shown on Drawings, or as directed by City Engineer, or as required to safely divert unauthorized parties away from or around construction operations.
 - 1. Maintain minimum 3-foot candles of illumination at exitways, including those remaining adjacent to permanent barricades.
- 3.03 TEMPORARY UTILITY AND ENVIRONMENTAL SYSTEMS

TEMPORARY FACILITIES

- A. Install temporary HVAC, plumbing and electrical products as required to maintain adequate environmental conditions to facilitate progress of Work, to meet specified minimum conditions for installation of materials, to protect materials and finishes from damage due to temperature or humidity beyond specified or otherwise required ranges, and to maintain proper Base Facility systems operation outside contract limits.
- B. Provide ventilation of enclosed areas for proper curing of installed products, to disperse or control humidity, and to prevent hazardous accumulations of dust, fumes, vapors or gases inside or outside of enclosures.
- 3.04 CONSTRUCTION EQUIPMENT (NOT USED)
- 3.05 BRIDGING OF TRENCHES AND EXCAVATIONS AT ROADS (NOT USED)
- 3.06 REMOVAL OF TEMPORARY FACILITIES
 - A. Maintain temporary facilities until Substantial Completion inspection, or when use is no longer required, or as directed by City Engineer.
 - B. Clean and repair damage caused by installation or use of temporary facilities.
 - C. Restore existing facilities used during construction to specified or original condition following Section 01731 Cutting and Patching.
- 3.07 DISPOSAL OF DEBRIS, EXCESS PRODUCTS
 - A. Legally dispose of waste and excess products off site. Do not burn or bury on site.
 - 1. Prepare and file with Texas Department of Health (TDH) "TDH Demolition/ Renovation Notification" related to compliance with National Emissions Standards for Hazardous Air Pollutants. Obtain form from TDH, 10500 Forum Place Drive, Suite 300, Houston, TX 77036-8599, (713) 414-6125, or (800) 572-5548.
 - B. Not Used.
 - C. Not Used.
 - D. Remove and legally dispose of excess and other products not designated for salvage.
- 3.08 INTERIM CLEANING
 - A. Temporarily store debris in areas concealed from public, occupants' and AOA view. Prevent migration of debris and dust following Section 01506 Temporary Controls.

- B. Clean-up dirt and debris in vicinity of construction entrances each day. Clean up debris, scrap materials, and other disposable items before completion of each day's work. Keep streets, driveways, and sidewalks clean of dirt, debris and scrap materials.
 - 1. Failure to maintain clean site is the basis for City Engineer take action following Section 2.5 in Document 00700 General Conditions.
- C. Remove debris daily unless otherwise approved by City Engineer.
- D. Prevent hazardous conditions due to product or debris storage in work areas and storage areas.
- E. Keep streets used for entering or leaving the job area free of excavated material, debris, and foreign material, including carryout dust and mud, resulting from construction operations. Follow Section 01575 Stabilized Construction Exit for vehicle wash areas. Follow City of Houston Ordinance No. 5705, Construction or Demolishing Privileges.
- F. As frequently as necessary, sweep and damp mop floors of spaces in public spaces adjoining access points through barricades or enclosures.

3.09 ACCESS THROUGH JETWAYS OR EXTERIOR WALL

- A. Obtain City Engineer's approval to use City-owned jetways for bringing material into and out of flight station areas. Do not use privately owned or leased jetways.
- B. Where approved by City Engineer, remove and salvage curtainwall glazing at one light, provide temporary enclosure and building protection, and reinstall salvaged products upon completion of required accessibility.

END OF SECTION

SECTION 01506 AIRPORT TEMPORARY CONTROLS

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. Dust control.
 - B. Noise control.
 - C. Pest and rodent control.
 - D. Pollution and environmental control.
 - E. Security controls, security plan and procedures. Work in AOA or the airport's secured area is not intended as part of this Contract; however, TSA may be involved in reviews of Contractor's construction plans to verify no TSA requirements or restrictions apply.
 - F. Safety requirements and safety plan.
 - G. Emergency procedures.
- 1.02 REFERENCES
 - A. U.S. Department of Transportation Federal Aviation Administration Advisory Circular AC 150/5370-2C.
- 1.03 SUBMITTALS
 - A. Make following submittals in 3-ring "D" binders, with clear spine and cover pockets and label "Airport Construction Control Plans" on white card-stock inserts. Prepare submittals as work of this and other Sections but submit following Section 01312 Coordination and Meetings.
 - B. Preliminary "Airport Construction Control Plans": Submit, under provisions of Section 01325, 3 copies in draft form of the following, with section dividers labeled as and containing:
 - 1. Construction Traffic Control Plan prepared under Section 01555 Traffic Control and Regulation.

- 2. Emergency Response Plan Listing Safety Officers (Paragraph 1.09) with names, positions, office and home telephone numbers, and pager and portable telephone numbers.
- 3. Safety Plan, including Trench Safety Plan prepared under Section 01561 Trench Safety System.
- 4. Security Plan.
- 5. Dust Control Plan.
- 6. Ground Water and Surface Water Control Plan prepared under Section 01578 Control of Ground and Surface Water.
- 7. Revise as required and submit 5 final copies, in same form as preliminary copies under Section 01312 Coordination and Meetings.
- C. Pesticides and Poisons: Submit following Section 01340 Shop Drawings, Product Data and Samples. Include Material Safety Data Sheets and manufacturers' recommendations for use and application. Include copy of applicator's certification from manufacturer.

1.04 DUST CONTROL

- A. Prevent uncontrolled dust creation and movement. Prevent airborne particulates from reaching receiving streams or storm water conveyance systems, building interiors and AOA.
- B. Use spray-on adhesives or plastic covers on exposed soil piles.
- C. Follow Section 01505 Temporary Facilities for interior enclosures.
- D. Implement dust control methods immediately whenever dust migration is observed.

1.05 NOISE CONTROL

- A. Provide vehicles and tools with noise suppressors and use methods and products that minimize noise to the greatest degree practicable. Follow OSHA standards and City Ordinances regarding noise. Do not create noise levels which interfere with the Work, with work by City, with airport operations, or which create a nuisance in surrounding areas.
- B. Do not use impact-type or powder-actuated-type tools adjacent to occupied office-type areas.

1.06 PEST AND RODENT CONTROL

A. Provide pest and rodent control as required to prevent infestation of construction or storage areas using legal chemicals applied by a licensed applicator.

- B. Provide methods and products with no adverse effect on the Work or adjoining properties.
- C. Use and store chemicals following manufacturers' recommendations and with local, state, and federal regulations. Avoid overuse of pesticides that produce contaminated runoff. Prevent spillage. Do not wash pesticide containers in or near flowing streams or storm water conveyance systems, or inside buildings.

1.07 POLLUTION AND ENVIRONMENTAL CONTROL

- A. Prevent contamination of soil, water or atmosphere by discharge of noxious substances from construction operations.
- B. Contain spillage and remove contaminated soils or liquids. Excavate and dispose of contaminated earth off-site and replace with suitable compacted fill and topsoil.
- C. Prevent harmful substances from entering public waters. Prevent disposal of wastes, effluents, chemicals, or other such substances adjacent to streams, or in sanitary or storm sewers.
- D. Provide systems for control of atmospheric pollutants. Prevent toxic concentrations of chemicals. Prevent harmful dispersal of pollutants into the atmosphere.
- E. Use equipment during construction following Federal, State, and local laws and regulations.
- F. Follow statutes, regulations, and ordinances governing prevention of environmental pollution and preservation of natural resources, including but not limited to the National Environmental Policy Act of 1969, PL 91-190, Executive Order 11514.
- G. Undeveloped areas on the airport site have considerable natural value. Do not cause unnecessary excavation or filling of terrain, unauthorized destruction of vegetation, air or stream pollution, nor harassment or destruction of wildlife.
- H. Follow environmental requirements. Limit disturbed areas to boundaries established by the Contract Documents. Do not pollute on-site streams, sewers, wells, or other water sources.

1.08 SECURITY CONTROLS, PLAN AND PROCEDURES

- A. Protect products and property from loss, theft, damage, and vandalism. Protect City property and other private property from injury or loss in connection with the Work.
- B. Employ watchmen as needed to provide required security and prevent unauthorized entry.
- C. Repair damage or replace property vandalized.

- D. If existing fencing or barriers are breached or removed for purposes of construction, provide an appropriate (as determined by the airport manager or designee) number of guards and/or maintain temporary security fencing equivalent to existing and approved by City Engineer.
- E. Maintain security program through construction until City's acceptance and occupancy precludes need for Contractor's security program.
- F. Provide chain link fence Terminal area staging areas, following Section 01505 Temporary Facilities.
- G. Airport Security Requirements:
 - 1. Airport Manager and TSA monitor effectiveness of airport security by attempting to gain unauthorized entry into security areas. When TSA gains unchallenged access to security areas, City and/or the responsible individual may be fined. When unauthorized entry into security areas is made through contract limits or other areas under the Contractor's control:
 - a. Reimburse the City, without increase in contract price, the amount of imposed fines levied against the City, accomplished by Change Order following Section 01255 Modification Procedures.
 - b. Cease work in breached areas until proper security measures are in place, without change in contract price or time.
 - 2. Immediately notify HPD of discovered presence of unbadged or unknown persons, vehicles or animals in security areas. Dial (IAH) (281) 231-3100.
 - 3. Obtain permitted AOA gate and other security area access locations from Airport Manager. Assign personnel to control passage through entry points not staffed by airport personnel.

4. Badges:

- a. After contract award and before preparation of the Safety Plan (Paragraph 1.09D) and construction schedule (Section 01325), obtain permitted security badges.
- b. Security identification badges are required for access into AOA/Secured areas. Badges are valid for one year or for the period of the contract, whichever is shorter.
- c. TSA TSR Part 1542.209 applies to personnel engaged in work of this contract occurring within the AOA or secured area, and reads in part as follows:

- "...each airport operator must ensure that no individual is granted unescorted access authority unless the individual has undergone a fingerprint-based criminal history records check (CHRC) that does not disclose that he or she has a disqualifying criminal offense."
- d. Obtain from City Engineer and fill out one security badge application package (application form and all associated paperwork) per person (including subcontractors' personnel) needing unescorted access in security areas.
- e. Contact the airport ID badging office to arrange for collection and submittal of fingerprints. Prepare and maintain a file for each applicant, including a copy of the completed application. Keep in Contractor's main office until expiration of the warranty period.
 - (1) Short-term or temporary personnel are permitted in security areas but only under constant escort by a properly badged escort, who shall have no duty other than to escort short-term or temporary personnel.
 - (2) Badged and escorted personnel are limited to access to and from work areas and shall remain in the work area.
 - (3) Personnel under constant escort shall be continuously observed by and in the immediate company of badged personnel.
 - (4) City Engineer may limit the number of badged personnel and personnel under constant escort.
- f. Submit completed applications to City Engineer for further review.
- g. Attend required security training sessions.
- h. Pick up completed badges and pay badging fees (as of November 2019, \$55.00 per badge for a 1-year period--verify fee and duration with Airport Manager).
- 5. Do not leave fence breaks unattended. Restore fence or erect equivalent secure temporary fencing before departing the work area.
- 6. Provide proper identification on Contractor's vehicles permitted in AOA.

1.09 SAFETY REQUIREMENTS

- A. Contractor and not City, City Engineer or Designer is solely and without qualification responsible for observation and compliance with safety regulations without reliance or superintendence of or direction by City, City Engineer or Designer.
- B. Safety measures, including but not limited to safety of personnel, provision of first-aid equipment, installation, operation and removal of temporary ventilation and safety

- equipment, in the Contract Documents are a subsidiary obligation of Contractor compensated through various payment items.
- C. Follow Document 00700 General Conditions Paragraph 10.1 and this Section for safety plan and procedures.
- D. Prepare a written detailed Safety Plan for the Work describing:
 - 1. Specific methods used to maintain airport safety procedures, based on requirements of the Contract Documents, airport procedures, FAA/TSA requirements and Contractor's own safety and security program.
 - 2. Contractor's emergency procedures in event of following minimum set of circumstances: airport's-, tenants'- or Contractor's on-site property damage; accidents; fire emergency; medical emergency; Airport Manager's intervention in construction operations; detainment or arrest of unauthorized Contractor's employees and subcontractors in Security areas; discovery of hazardous materials.
 - 3. Provisions for temporary removal of security fencing (including culvert and drain-way grates). Include proposed actions to prevent entry of people or animals into security areas when security fence is breached. Do not breach fencing without approval.
 - 4. Requirements for closing safety areas.
 - 5. Submit draft Safety Plan at the Preconstruction Conference, following Section 01312 Coordination and Meetings.
- E. City Engineer will review the safety program with FAA and ATCT for compliance with applicable regulations. If the plan fails to demonstrate compliance, modify it until approval is obtained.
- F. Contractor's Safety Officers: Refer to Section 01550 Public Safety & Contractor Safety Staffing, Paragraph 1.05, Contractor's Safety Staffing Requirements.
- G. Submit final Safety Plan at the first Progress Meeting following Section 01312 Coordination and Meetings.
 - 1. Include in the safety plan Contractor's response to trench safety requirements following Section 01561 Trench Safety System.
- H. Follow applicable Federal, State and local safety codes and statutes and with proper construction practice. Establish and maintain procedures for safety of work, personnel and products involved in the Work.
- I. Follow Texas Occupational Safety Act (Art. 5182a, V.C.S.) and promulgations of Secretary of Labor under Section 107 of Contract Work Hours and Standards Act, published in 29 CFR Part 1926 and adopted by Secretary of Labor as occupational safety

and health standards under the Williams-Steiger Occupational Safety and Health Act of 1970. Follow other legislation enacted for safety and health of Contractor employees. These safety and health standards apply to Contractor, Subcontractors and Suppliers and their respective employees.

- J. Immediately notify City Engineer of investigation or inspection by Federal Safety and Health inspectors of the Work or place of work on the job site, and after such investigation or inspection inform City Engineer of results. Submit 1 copy of accident reports to City Engineer within 10 days of date of inspection.
- K. Protect areas occupied by workmen by the best available devices for detection of lethal and combustible gases. Frequently test devices to assure their functional capability. Monitor liquids and gases infiltrating into work areas for visual or odor evidences of contamination. Take immediate appropriate steps to seal off entry of contaminants into to the Work.
- L. Maintain coordination with City's Police and Fire Departments during the Work.

1.10 EMERGENCY PROCEDURES

- A. If an emergency situation occurs, including involvement in or witness to aircraft or motor vehicle emergencies and emergencies involving other parties or property regardless of fault, or a violation of requirements of this Section, or a violation of FAA/TSA regulations, take one or more of the following minimum actions as appropriate to the situation.
- B. Immediately report to City Engineer accident or damage to pavement, buildings, utilities, and vehicles involving or caused by Contractor, Subcontractors, Suppliers, personnel, equipment or others.

C. In general:

- 1. Immediately notify HFD or HPD (public areas) as appropriate and applicable to location of emergency.
- 2. Notify City Engineer by telephone or in person.
- 3. Stop work in the area. Secure site as required to prevent further damage to property and persons.
- 4. Evacuate non-essential personnel from the scene. Keep involved personnel and witnesses on-site until otherwise directed by City Engineer or security officers.
- 5. Impound involved vehicles in "as-is condition" until otherwise directed.
- 6. Do not resume work in the area until released by City Engineer.

- D. For discovery of actual or suspected hazardous material contamination, proceed with Paragraph B above while simultaneously initiating Contractor's own hazardous material response program.
- E. Follow City Engineer's instructions for emergencies affecting the Work but occurring outside the Contract Limits. Certain situations may require the Work or work to be temporarily stopped under provisions of Document 00700 General Conditions.
 - 1. Maintain a log documenting cost and time impact of the stop-work order.
 - 2. Submit data to the City Engineer in form as instructed at that time.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

TEMPORARY SIGNS

SECTION 01507 TEMPORARY SIGNS

PART 1- GENERAL

1.01 SECTION INCLUDES

- A. Temporary signs at construction access points.
- B. Maintenance.
- C. Removal.
- D. Project and Contractor identity signs are not permitted.

1.02 QUALITY ASSURANCE

- A. Design signs and supporting sign structure to remain in place and withstand 50 miles-per-hour wind velocity.
- B. Sign Manufacturer/Maker/Painter: Experienced professional sign company.
- C. Finishes, Painting: Withstand weathering, fading, and chipping for duration of construction.
- D. Appearance: Fresh, new-looking, legible and neat look during the entire period during which required.

1.03 SUBMITTALS

- A. Follow Section 01340 Shop Drawings, Product Data and Samples.
- B. Submit shop drawings including:
 - 1. Signboards and Copy: Show to-scale size, dimensions, content, layout, font style and size, and colors.
 - 2. Location of each sign during each stage Section 01326 Construction Sequencing.

PART 2 PRODUCTS

2.01 TEMPORARY SIGNS FOR ACCESS POINTS

A. Posts for Exterior Signs: New 4x4 inch moisture-resistant-treated wood or 2-1/2-inch diameter by 12-foot long galvanized steel.

TEMPORARY SIGNS

| 1. [[Pain | t [black] [v | white] [|] [as scheduled or sho | own on Drawings.]] |
|-----------|--------------|-----------|------------------------|--------------------|
| *****OR | ***** [Un | painted.] | | |

- 2. Fabricate to length required for 3-foot direct-bury plus aboveground length required for proper height of signboard mounting.
- 3. Furnish number of posts as required for proper support of signboard

B. Signboards:

- 1. For Exterior Signs: 3/4-inch-thick exterior grade medium density overlay (MDO) plywood, or 3/16-inch sheet aluminum. Paint background [black] [white] [______] [as shown on Drawings].
 - a. Contractor's Option: Use colored vinyl film in lieu of paint for aluminum.
- 2. For Interior Signs: 3/4-inch-thick fire-retardant treated medium density overlay plywood, or colored plastic laminate cladding both faces and with painted edges, or 1/8-inch sheet aluminum. Paint background black.
 - a. Contractor's Option: Use colored vinyl film in lieu of paint for aluminum.
- C. Color Coating for Signboards and Hashmarks: Flat ultraviolet inhibited acrylic polyurethane or matte vinyl, all visible surfaces.
- D. Copy and Borders: Flat color (color as scheduled) vinyl die-cut, Helvetica Medium typeface, size as shown or scheduled.
- E. Rough Hardware: [For wood, galvanized steel or brass for fasteners and other hardware] [For aluminum, cadmium-plated steel or stainless steel].
- F. Skid-mounted Signs: Allowed only when approved by the City Engineer. Approval does not release Contractor from responsibility of maintaining temporary signs on site and does not make City responsible for security of temporary signs.

2.03 SIGN FABRICATION

A. Fabricate signboards and install copy in the shop.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install temporary signs at construction area access points, including within security areas and AOA, at following location:

- 1. As scheduled below.
- 2. Where shown on Drawings.
- 3. Where required by City Engineer.
- B. Install signs fully visible, legible, level and plumb.
- 3.02 MAINTENANCE
 - A. Maintain signs and supports and markings clean. Repair deterioration and damage.
 - B. Relocate signs as work progresses [at each site] [at each stage] [at both] at no additional cost to the City.
- 3.03 REMOVAL
 - A. Remove temporary sign work when control is no longer needed or as directed by City Engineer.

Edit schedule for applicability. Following are basic conditions.

- 3.04 MESSAGE SCHEDULE
 - A. Construction Entrance Warning Sign: 3 by 2-foot signboard, white copy and border on black background. Surface-mount on access gates through fences and on doors through barricades or enclosures; at 50 feet on center unless otherwise required by governing agencies:

Edit following copy as applicable. Security badge requirement applies to access points into security areas and AOA.

NO ENTRANCE (4 inch)

CONSTRUCTION AREA (4 inch)

(45-degree hash marks, full width) (2 inch)

Hard Hat Required (2 inch)

Security Badge Required (2 inch)

B. Emergency Egress Sign: One-foot square signboard, white copy and border, with directional arrow, on black background. Surface-mount on fences, barricades or enclosures, or

TEMPORARY SIGNS

freestanding, spaced 50 feet on center along path of egress, unless otherwise required by governing agencies.

EXIT (4 inch)

(Arrow direction as appropriate to egress path) (6 inch)

Edit following types and copy as applicable to closure of parking areas.

C. No Entrance to Closed Parking Area: 8 by 4-foot signboard, white copy and border on black background, free-standing; at each ramp access to floor on which work occurs:

NO ENTRANCE (6 inch)

CONSTRUCTION AREA (6 inch)

(45-degree hash marks, full width (4 inch)

This Parking Area Closed (4 inch)

Until (Insert Date) (4 inch)

D. Notice of Intent to Close Parking Area: 8 by 4-foot signboard, white copy and border on black background, free-standing; at each ramp access to floor on which work occurs:

WARNING (6 inch)

THIS PARKING LEVEL (6 inch)

WILL BE CLOSED (6 inch)

(45-degree hash marks, full width) (4 inch)

Do Not Park on This Level (4 inch)

From (Insert Date) (4 inch)

Until (Insert Date) (4 inch)

END OF SECTION

TEMPORARY SIGNS

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Project No. 957

SECTION 01550

PUBLIC SAFETY & CONTRACTOR'S SAFETY STAFFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Public Safety and Convenience
- B. General Requirements
- C. Street Markers and Traffic Control Signs
- D. Contractor's Safety Staffing Requirements

1.02 RELATED SECTIONS

- A. Section 00700 General Conditions
- B. Section 01555 Traffic Control & Regulations
- C. Section 01561 Trench Safety System

1.03 PUBLIC SAFETY AND CONVENIENCE

- A. The Work in this Project is to be performed [edit wording for scope of work and coord. w/other const. Projects going on in the immediate area]. The Contractor shall furnish and maintain appropriate barricades and signage required to maintain a safe work environment for the HAS employees, the public and construction staff working at the project site.
- B. Contractor shall plan and execute his operations in a manner that will cause a minimum interference with other construction projects.
- C. Signs, barricades and warning devices informing public of construction features will be placed and maintained by Contractor, who shall be solely responsible for their maintenance.
- D. Contractor shall perform the necessary cleanup and finishing immediately after all or a portion of the Work is completed.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT – PHASE II

Project No. 957

PUBLIC SAFETY & CONTRACTOR'S SAFETY STAFFING

- E. All fire hydrants and water control valves shall be kept free from obstruction and available for use at all times.
- 1.04 GENERAL REQUIREMENTS
 - A. The Contractor shall observe the rules and regulations of the State of Texas and agencies of the U.S. Government which prohibit the pollution of any lake, stream, river, or wetland by dumping of any refuse, rubbish, dredge material, or debris therein.
 - B. The Contractor is specifically cautioned that disposal of materials into any water of the State must conform to the requirements of the Texas Natural Resource Conservation Commission (TNRCC), and any applicable permit from the US Army Corps of Engineers.
 - C. Waste material must be disposed of at sites approved by the Owner's Representative and permitted by the City.
- 1.05 CONTRACTOR'S SAFETY STAFFING REQUIREMENTS
 - A. Refer to Section 00700 General Conditions, Article 10 Safety Precautions
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF DOCUMENT

SECTION 01576 WASTE MATERIAL DISPOSAL

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. Disposal of waste material and salvageable material.
- 1.02 SUBMITTALS
 - A. Conform to requirements of Section 01330 Submittal Procedures.
 - B. Submit copy of approved "Development Permit", as defined in Chapter 19 of Floodplain Ordinance (City Ordinance Number 81-914 and Number 85- 1705), prior to disposal of excess material in areas designated as being in "100-year Standard Flood Hazard Area" within the City and areas designated as being in "500-year Standard Flood Hazard Area". Contact the City of Houston Floodplain Management Office at the Houston Permitting Center (1002 Washington Avenue, 3rd Floor), at (832) 394-8854 for floodplain information.
 - C. Obtain and submit disposal permits for proposed disposal sites, if required by local ordinances.
 - D. Submit copy of written permission from property owner, with description of property, prior to disposal of excess material adjacent to Project. Submit written and signed release from property owner upon completion of disposal work.
 - E. Describe waste materials expected to be stored on-site and a description of controls to reduce Pollutants from these materials, including storage practices to minimize exposure of materials to storm water; and spill prevention and response measures in the Project's Storm Water Pollution Prevention Plan (SWPPP). Refer to Section 01410 TPDES Requirements.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

- 3.01 SALVAGEABLE MATERIAL
 - A. Excavated Material: When indicated on Drawings, load, haul, and deposit excavated material at location or locations shown on Drawings outside limits of Project.

WASTE MATERIAL DISPOSAL

- B. Base, Surface, and Bedding Material: Load shell, gravel, bituminous, or other base and surfacing material designated for salvage into City trucks.
- C. Pipe Culvert: Load culverts designated for salvage into City trucks.
- D. Other Salvageable Materials: Conform to requirements of individual Specification Sections.
- E. Coordinate loading of salvageable material on City trucks with Project Manager.

3.02 EXCESS MATERIAL

- A. Remove and legally dispose of vegetation, rubble, broken concrete, debris, asphaltic concrete pavement, excess soil, and other materials not designated for salvage from job site.
- B. Excess soil may be deposited on private property adjacent to Project when written permission is obtained from property owner. See Paragraph 1.02 D above.
- C. Verify floodplain status of any proposed disposal site. Do not dispose of excavated materials in area designated as within 100-year and 500-year Standard Flood Hazard Areas unless "Development Permit" has been obtained. Remove excess material placed in "100-year and 500-year Standard Flood Hazard Areas" within the City without "Development Permit", at no additional cost to the City.
- D. Remove waste materials from site daily, in order to maintain site in neat and orderly condition.

END OF SECTION

SECTION 01610 BASIC PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 **SECTION INCLUDES**

A. Requirements for transportation, delivery, handling, and storage of Products.

1.02 **PRODUCTS**

- Products: Defined in Document 00700 General Conditions. Does not include machinery A. and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components designated for reuse.
- B. For material and equipment specifically indicated or specified to be reused in the work:
 - 1. Use special care in removal, handling, storage and reinstallation, to assure proper function in completed work.
 - 2. Arrange for transportation, storage and handling of products which require off-site storage, restoration or renovation. Include cost in unit price for related items.
- C. When contract documents require that installation of work comply with manufacturer's printed Instructions, obtain and distribute copies of such instructions to parties involved in installation, including two copies to Project Manager. Maintain one set of complete instructions at job site during installation until completion.
- D. Provide Products from the fewest number of manufacturers as practical, in order to simplify spare parts inventory and to allow for maximum interchangeability of components. For multiple components of the same size, type or application, use the same make and model of component throughout the Work.

1.03 TRANSPORTATION

- Make arrangements for transportation, delivery, and handling of Products required for A. timely completion of the Work.
- B. Transport and handle Products in accordance with manufacturer's instructions.
- C. Consign and address shipping documents to proper party giving name of the Project and its complete street address. Shipments shall be delivered to Contractor.

BASIC PRODUCT REQUIREMENTS

1.04 DELIVERY

- A. Arrange deliveries of Products to accommodate short-term site completion schedules and in ample time to facilitate inspection prior to Installation. Avoid deliveries that cause lengthy storage or overburden of limit storage space.
- B. Coordinate deliveries to avoid conflict with the Work and conditions at the site and to accommodate the following:
 - 1. Work of other contractors or the City.
 - 2. Limitations of storage space.
 - 3. Availability of equipment and personnel for handling Products.
 - 4. The City's use of premises.
- C. Have Products delivered to the site in manufacturer's original, unopened, labeled containers.
- D. Immediately upon delivery, inspect shipment to assure:
 - 1. Product complies with requirements of the Contract.
 - 2. Quantities are correct.
 - 3. Containers and packages are intact; labels are legible.
 - 4. Products are properly protected and undamaged.

1.05 PRODUCT HANDLING

- A. Coordinate off-loading of Products delivered to the site. If necessary, during construction, move and relocate stored Products at no additional cost to the City.
- B. Provide equipment and personnel necessary to handle Products, including those provided by the City, by methods to prevent damage to Products or packaging.
- C. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging Products or surrounding areas.
- D. Handle Products by methods to prevent over-bending or overstressing.
- E. Lift heavy components only at designated lifting points.

- F. Handle Products by methods to prevent over-bending or overstressing.
- G. Do not drop, roll, or skid Products off delivery vehicles. Hand-carry or use Suitable materials handling equipment.

STORAGE OF PRODUCTS 1.06

- Store and protect Products in accordance with manufacturer's recommendations and A. requirements of these Specifications.
- Make necessary provisions for safe storage of Products. Place Products so as to prevent В. damage to any part of the Work or existing facilities and to maintain free access at all times to all parts of the Work and to utility service company installations in the vicinity of the Work. Keep Products neatly and compactly stored in locations that will cause minimum inconvenience to other contractors, public travel, adjoining owners, tenants, and occupants. Arrange storage in a manner so as to provide easy access for inspection.
- C. Restrict storage to areas available on the site for storage of Products as shown on Drawings or approved by Project Manager.
- Provide off-site storage and protection when on-site storage is not adequate. Provide D. addresses of, and access to, off-site storage locations for inspection by Project Manager.
- Do not use lawns, grass plots, or other private property for storage purposes without written E. permission of owner or other person in possession or control of premises.
- F. Protect stored Products against loss or damage.
- G. Store in manufacturers' unopened containers.
- Neatly, safely, and compactly stack Products delivered and stored along the line of the Η. Work to avoid inconvenience and damage to property owners and general public and maintain at least 3 feet clearance around fire hydrants. Keep public, private driveways and street crossings open.
- I. Repair or replace damaged lawns, sidewalks, streets or other improvements to satisfaction of Project Manager. Total length that Products may be distributed along route of construction at one time is 1000 linear feet, unless otherwise approved in writing by Project Manager.

HOU CENTRAL CONCOURSE FLOORING REPLACEMENT - PHASE II

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01731 CUTTING AND PATCHING

PART 1 **GENERAL** 1.01 **SECTION INCLUDES** Edit following for CSP or control samples. Delete if neither. ************************* Obtain CSP and control samples. Α. В. Repair remaining Base Facility. C. Connect work to Base Facility. D. Remove construction required to enable required alteration or addition to Base Facility. Uncover work for inspection or reinspection of covered work by authorities having E. jurisdiction. F. Connect work not done in proper sequence. G. Make connections or alterations to Base Facility or to work. H. Provide openings, channels, chases and flues as required. Delete following if no terrazzo repair or replacement. Repair existing damaged terrazzo flooring. I. J. Replace designated panels of existing terrazzo flooring. Delete following if no demolition. ****************************** K. Demolition is specified in Division 2. 1.02 REFERENCES National Terrazzo and Mosaic Association, Inc. (NTMA). Α. **SUBMITTALS** 1.03

CUTTING AND PATCHING

- A. Submit Document 00931 Request for Information, with supporting data, in advance of cutting or patching not shown on the Drawings or which affects:
 - 1. Contract Sum or Time.
 - 2. Visual quality of remaining sight-exposed surfaces exposed after work is complete and for which no work is required other than to gain access.

Delete following if no separate contracts or work by City.

- 3. Work of separate contractors and work by City (Section 01110 Summary of Work).
- 4. Warrantability, value, integrity, serviceability, or life expectancy of any component of the Base Facility and the Work.
- 5. Integrity or serviceability of weather-exposed, moisture-resistant, or fire-resistant components or systems.
- 6. Work outside indicated contract limits.
- B. Include in each request:
 - 1. Identification of the Project.
 - 2. Description of affected Work.
 - 3. The necessity for cutting and patching.
 - 4. Effect on Base Facility construction, on the Work, or on work of separate contractors and work by City.
 - 5. Description of proposed work:
 - a. Scope of cutting and patching.
 - b. Contractor, Subcontractor or trades executing work.
 - c. Products proposed.
 - d. Extent and type of refinishing.
 - e. Schedule of operations.
 - 6. Alternatives to cutting and patching, if any.

CUTTING AND PATCHING

- 7. Written permission of separate contractors or installers of work by City whose work will be affected, countersigned by City Engineer.
- C. Should Base Facility conditions require change of products, follow Section 01630 Product Options and Substitutions.
- D. Submit product data and samples following Section 01340 Shop Drawings, Product Data and Samples.
 - 1. Submit manufacturer's technical literature for each patch material and fully describe compatibility with each substrate.
 - 2. Submit samples of paint colors and sheen on gypsum board with taped edges.

Delete following if no terrazzo work.

4. Submit samples of proposed new terrazzo showing finished match of chip and matrix color- and density-match and surface texture and sheen to Base Facility terrazzo.

Delete following if no mixes.

- 5. Submit mix designs following Section 01455 City's Acceptance Testing.
- E. Submit written notice to City Engineer designating time work will be uncovered for observation. Do not cut until authorized by City Engineer, except when documentable emergency conditions require immediate cutting.
- F. Should conditions of work or schedule indicate change of products or methods, submit Document 00931 Request for Information stating conditions indicating change, recommendations for alternative products or methods and submittals. Follow Section 01630 Product Options and Substitutions.
- 1.04 QUALITY ASSURANCE
 - A. Cut and patch by persons qualified to perform work.
 - B. Remove minimum construction necessary. Return surfaces to appearance of new work and match Base Facility.
 - 1. Cut finish surfaces such as masonry, tile, plaster or metals in a straight line at a natural line or plane of division from abutting work.

- C. Make patch work visually undetectable at 5-feet for exposed and semi-exposed interior work, and at 10-feet for exposed and semi-exposed exterior work under Base Facility lighting conditions.
- D. Presence of a damaged or defective product, finish or type of construction requires patching, extending or matching be performed as necessary to make work complete and consistent to standards of quality identical to Base Facility.
- E. Promptly notify City Engineer by Document 00931 Request for Information of discoveries of construction, such as furnishings and articles having possible historic or private value to City.
 - 1. Protect discovery until disposition.
 - 2. Legally dispose of items not removed by City.

1.05 INSPECTION, HANDLING, STORAGE AND PROTECTION OF CSP AND CONTROL SAMPLES

- A. Follow Section 01610 Basic Product Requirements and following minimum standards.
- B. After removal CSP and control samples, inspect and tag each item. Prepare a written inventory.
 - 1. Describe damage or deficiencies discovered. Process claims and obtain replacement products.
 - 2. Inspect and inventory in presence of City Engineer if necessary.
- C. Store CSP following Section 01610 Basic Product Requirements until delivery to City. Package CSP in weatherproof containers, labeled with inventory on outside of containers.
- D. Load, transport, off-load and provide other incidental labor required to place CSP inside City's facility. Notify City Engineer at least 7 days before delivery is scheduled.
- E. Provide CSP manufacturer's labor if required to properly handle, store and protect products.
- F. Obtain written receipt or transfer of title from City Engineer.
- 1.06 SCHEDULING AND SEQUENCING
 - A. Provide specific time and date information to City Engineer 48 hours in advance of proposed Work involving temporary shutdown of utilities and environmental systems.

CUTTING AND PATCHING

- B. Notify City Engineer at least 7 days before starting work in areas or conditions affecting data, communications, security and paging systems. Do not cut or patch such systems without approval of City Engineer.
- C. Submit a detailed schedule of proposed connections, including shutdowns and tie-ins. Include in the submittal the proposed time and date as well as the anticipated duration of the Work. Submit the detailed schedule coordinated with the construction schedule.

PART 2 PRODUCTS

2.01 MATERIALS

A. Based on the Designer's knowledge of available "as-builts" of the Base Facility, and observation of sight-exposed construction, patching materials required include:

Edit following and related portions of Part 3. This is a list of previously encountered basic conditions. Make certain referenced Sections are included in the Project Manual.

- 1. Paint: Follow Section 09____
- 2. Gypsum Drywall: Follow Section 09 .
- 3. Lath and Plaster: Follow Section 09____.
- 4. Spray-on Fireproofing (do not submit product data) on corrugated metal deck, for UL D870, ½-inch thick, 2-hour design; "Spray-Don Type JN," no substitutions, with accessories as required for complete work.
- 5. Firestopping: Follow Section 07____.
- 6. Concrete-filled Steel Deck:
 - a. Concrete: Cement ASTM C150, Type I or III; minimum 4000 psi compressive strength; 110 to 116 pcf, maximum 1-inch aggregate size and per ASTM C330; maximum allowable unit shrinkage of 0.03 percent at 28 days per ASTM C157.
 - b. Deck: Hot-dip zinc coating ASTM A525 Class E (1.25 oz./s.f.) on sheet steel ASTM A446, Grade A; minimum 33,000 psi yield strength, maximum 20,000 psi working stress; minimum 22 gage, 2-inches deep; Granco Steel Products Co., Inland Steel Products Co., or H.H. Robertson.
 - c. Reinforcing: ASTM A615, Grade 60.
 - d. Supporting steel framing: ASTM A36.

CUTTING AND PATCHING

- e. Epoxy (do not submit product data if following products are used):
 - 1) For reinforcing steel: Rescon Technology Corp. "R606," or Sika Corp. "Sikadur 31 Hi-Mod Gel."
 - 2) For concrete-to-concrete: Rescon Technology Corp. "R649," or Sika Corp. "Sikastix 370" or "Sikadur 31 Hi-Mod Gel."
- 7. Concrete Masonry Units (CMU): Follow Section 04 .
- 8. Concrete Repair: Master Builders "Emaco T430" or substitution following Section 01630- Product Options and Substitutions.

Delete following bracketed words if no 00330.

1. Contract Documents do not define products or standards of quality present in the Base Facility [unless indicated otherwise in Document 00330 - Existing Conditions].

2. Determine products required following Section 01726 - Base Facility Survey. Determine required workmanship by using equivalent Base Facility products as control samples.

PART 3 EXECUTION

3.01 GENERAL PERFORMANCE

Edit following "demolition" for applicability.

A. In addition to demolition work, cut, move or remove discovered non-hazardous-material Base Facility items as necessary to provide access or to allow alterations and new work to proceed, as approved or directed, including:

- 1. Repair or remove dangerous and unsanitary conditions.
- 2. Remove abandoned items and items serving no useful purpose, such as Base Facility abandoned HVAC components, piping, data cables, conduit and wiring back to panels, and ductwork.
 - a. Confirm abandonment with City Engineer prior to removal.

- 3. Remove unsuitable or extraneous products not designated for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals and deteriorated concrete.
- B. Patch, repair and refinish Base Facility items intended or designated to remain, to match analogous Base Facility conditions for each product, with proper transition between new work and Base Facility.
- C. Remove and replace defective or deficient new work and work not following Contract Documents.
- D. Remove samples of Base Facility and work for Contractor's surveillance testing and for tests in Section 01455 City's Acceptance Testing.

- E. Provide routine penetrations and applicable fire-rated (Section 07___) or weather-resistant (Section 07___) separations for plumbing piping, electrical conduit, HVAC ducts, and similar items required to complete the work, including incidental conditions occurring outside the indicated contract limits, which occur in walls, floors, ceilings, partitions and roofs.
- F. Repair damage to Base Facility resulting from work under this contract.
- G. Perform activities to avoid interference with facility operations and work of other contractors, following Document 00700 General Conditions and Sections 01145 Use of Premises, 01312 Coordination and Meetings, 01505 Temporary Facilities and 01506 Temporary Controls.
- H. Restore Base Facility to a state equivalent to or better than that before cutting and patching. Restore new work to standards of these Specifications.
- I. Support, anchor, attach, match, trim and seal materials to work of other contractors. Unless otherwise specified, provide sleeves, inserts, and hangers, required for the execution of the Work.
- J. Provide shoring, bracing and support as required to maintain structural integrity and protect adjacent work from damage during cutting and patching. Before cutting beams or other structural members, anchors, lintels or other supports, request written instructions from City Engineer. Follow such instructions, as applicable.
- K. Cut and patch as recommended by manufacturers of patch products, and where possible by manufacturer of affected Base Facility products.

- L. Fit and adjust products to provide finished installation complying with specified products, functions, tolerances and finishes.
- M. Restore Base Facility damaged as a result of the Work. Install work following Contract Documents, Base Facility documents, trade standards, or governing agencies, as applicable.
 - 1. Follow Section 01726 Base Facility Survey to document Base Facility damage Base Facility prior to commencing work.
- N. Refinish entire exposed and semi-exposed surfaces.
 - 1. For continuous surfaces, refinish to nearest change in plane. Remove and reinstall remaining signs, hardware and similar interferences.
 - 2. For an assembly, refinish entire unit.
- O. Where cutting and patching fails to match Base Facility work, provide complete replacement work.
- 3.02 TEMPORARY FACILITIES AND PROTECTION
 - A. Follow Section 01505 Temporary Facilities.
- 3.03 INSPECTION AND COORDINATION
 - A. Inspect Base Facility following Section 01726 Base Facility Survey, and if required provide Contractor's testing following Section 01450 Contractor's Quality Control, for Base Facility conditions subject to this Section.
 - B. Report by Document 00931 Request for Information Questionable Base Facility conditions that affect the Work.
 - C. Obtain written authorizations before beginning utility or environmental systems work affecting Base Facility outside the contract limits.

Edit following "demolition" for applicability.

- D. Coordinate work with demolition work specified in Division 2.
- 3.04 REMAINING FLOORS, WALLS, CEILINGS AND DOORWAYS
 - A. Where only partitions are removed, patch remaining floors, walls and ceilings, with substrate and finish materials to match Base Facility.

- 1. Where removal of partitions results in adjacent spaces becoming one, rework floors and remaining walls and ceilings to provide smooth planes without breaks, steps or bulkheads.
- 2. Where extreme change of plane occurs, obtain direction by Document 00931 Request for Information.
- B. Trim and refinish Base Facility doors as necessary to clear plane of new floors.

Delete following if not applicable.

- - 1. Repair partitions as required to receive future resilient base.

3.05 DAMAGED SURFACES

- A. Replace or patch any portion surfaces of the Work and Base Facility found damaged, lifted, discolored, or showing other imperfections resulting from work, with matching sound material and finish.
 - 1. Provide proper support of substrate before patching.
 - 2. Refinish patched portions of painted or coated surfaces scheduled for new finish, to produce uniform color and texture over entire surface.
 - a. Tape, float, sand and apply two coats of latex paint to repaired Base Facility drywall, plaster, doors and doorframes.
 - 3. Exceptions: Fully patch remaining Base Facility surfaces exposed and semi-exposed to public view to match all visual characteristics of Base Facility.

3.06 TRANSITION FROM BASE FACILITY TO NEW CONSTRUCTION

- A. Where new work abuts or finishes against Base Facility work, make smooth and workmanlike transition. Match patched work adjacent to Base Facility work for all visual characteristics.
 - 1. Where smooth transition is not possible, terminate Base Facility surface neatly along a straight line at a natural line or plane of division, and provide edge trim appropriate to substrate and finish.
 - 2. Exceptions: Fully patch remaining Base Facility surfaces exposed and semi-exposed to public view to match all visual characteristics of Base Facility.

CUTTING AND PATCHING

3.07 SITE UTILITY AND BUILDING ENVIRONMENTAL SYSTEMS

- A. Perform work needed to complete connections and tie-ins to Base Facility. Keep Base Facility in continuous operation unless otherwise specifically permitted or approved by City Engineer.
- B. Base Facility electrical and mechanical systems and site utilities are intended to be functioning properly prior to start of the Work. Follow Section 01505 to confirm proper function.
 - 1. Notify City Engineer by Document 00931 Request for Information of non-operating systems prior to commencing affected work in each area.
 - 2. Do not proceed with work affecting improperly functioning utilities or systems until corrective work is complete.
- C. Make required cuts, plugs and terminations. Tag remaining lines with contents names and direction of flow, whether or not flow is active, using weather-resistant tags and permanent markers.
- D. Plumbing Systems and HVAC Systems:
 - 1. Provide temporary or permanent by-passes, test plugs and stop valves in plumbing waste and supply lines, and in HVAC system piping as individual fixtures and equipment are removed. Do not bypass wastewater or sludge into waterways. Provide temporary pumping facilities to handle wastewater if necessary. Provide temporary power supply and piping to facilitate construction where necessary.
 - a. Scope, type and locations of temporary plugs and valves are at the Contractor's option, as approved, based on Base Facility conditions encountered.
 - b. Unless otherwise required, install permanent plugs and valves as follows:
 - 1) For risers tapped into remaining lateral lines cut and plug risers as close as practical to laterals.
 - 2) For laterals, cut and plug approximately one foot from surface of Base Facility demising walls intended to remain.
 - 3) For risers extending through floors in unoccupied areas, cut and plug approximately one foot above top surface of Base Facility floor.
 - 4) For risers extending through floors in occupied areas and which cannot be fully removed following Paragraph 1) above, cut and plug flush with surface of Base Facility floor.

CUTTING AND PATCHING

E. Electrical Power Systems:

- 1. Provide temporary or permanent bypasses and terminations of electrical systems. Do no work on Base Facility data, communications, security or paging systems following Paragraph 1.05.B above.
 - a. Scope, type and location of terminations are at the Contractor's option, as approved, determined by Base Facility conditions encountered.
 - b. Unless otherwise required, terminate electrical lines as follows:
 - 1) For circuits tapped into remaining laterals intended to remain and which occur above Base Facility ceiling planes, terminate circuits in approximately sized junction boxes as close as practical to the lateral. Attach boxes to building structure, install wire nuts on unconnected wires, and permanently label outside of box with panel/circuit number and voltage.
 - 2) For abandoned circuits, remove wire, conduit, boxes, breakers and related components back to the respective panel boxes or terminal boards, and provide a blank plate in the breaker slot, and identify plate as "SPARE CIRCUIT/ (CAPACITY) AMP" minimum.
 - c. Unless otherwise required by demolition work, and where Base Facility ceilings are indicated for removal, leave paging and security system components in place, using at least two hanger wires per device.
- 2. Provide permanent support for risers and laterals intended to remain.
- 3. Fit ductwork, conduit and pipes water-tight, air-tight and fire-stopped, following Section 07(), at penetrations through walls, floors and ceiling, whether or not Base Facility penetrations are constructed as water-, air- or fire-tight.
 - a. If not otherwise shown on Drawings, provide properly sized fire dampers for remaining Base Facility ducts which penetrate fire-rated construction, and which do not already have fire dampers.

Edit following "demolition requirements" for applicability.

- 4. Temporarily or permanently seal penetrations of removed laterals and risers through floors and full-height walls with firestopping, following demolition requirements, as work progresses.
- 5. Provide minimum 20-gauge galvanized sheet metal plate with self-tapping screws at openings in ductwork. Seal joints as required to prevent air intake or exhaust.

6. Remove hangers or supports where associated mechanical and electrical work is removed, if not accomplished as part of Section [02 - Demolition].

- 7. Remove site utility lines without disturbing underlying soil or sub-base.
- F. Insofar as possible, test work under operating conditions before final tie-ins are made to connect equipment to the Base Facility. Test remaining utilities and service in presence of City Engineer before covering up. Repair defects and deficiencies.

Edit following Paragraphs 3.08, 3.09, 3.10, 3.11, 3.12, 3.13, and 3.14 for applicability, following editing note at beginning of Part 2.

3.08 REPAIRING FIREPROOFING

- A. Repair fireproofing to achieve UL resistances and minimum thickness specified in Part 2.
- B. Inspect substrates from which Base Facility fireproofing is removed. Repair damage and deficiencies, including primers, which prevent proper completion of new fireproofing work.
- C. Coordinate with other Sections to minimize cutting into completed fireproofing work.
- D. Proportion and mix fireproofing materials to proper consistency for spray or hand-trowel application.
- E. Cover exposed steel beams and floor decks formerly fireproofed. Feather material onto adjoining Base Facility fireproofing.
- F. Patch damaged or deficient material prior to ceiling or other work preventing accessibility.

3.09 SALVAGING CONTROL SAMPLES AND CSP

- A. Remove Base Facility designated as CSP and control samples using methods and procedures specified herein.
 - 1. Control samples located outside contract limits are intended to remain in place.
 - 2. Remove control samples of sufficient size and proper quantity to establish standards for comparison.
- B. Inspect, handle, store, and protect control samples and CSP following this Section. Package CSP in impact- and moisture-resistant containers.

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- C. Where applicable, reinstall control samples following this Section.
- 3.10 CONCRETE MASONRY UNITS (CMU)
 - A. Remove Base Facility CMU to lines required to receive new work.
 - B. Install new units and joints to match Base Facility coursing following Section 04___. Unless otherwise required, tie new CMU into Base Facility MU with running bond pattern, not stack bond.

3.11 CONCRETE-FILLED METAL DECK

- A. Clean metal deck, reinforcing, inserts and fasteners, and remaining concrete as required to properly bond with concrete and epoxies. Prepare Base Facility concrete mating surfaces with a "needle scaler," not more than one day before installation of new concrete.
- B. Drill required holes with carbide-tipped masonry bits. For reinforcing steel, make hole diameter 1/8 inch larger than bar diameter and depth at least 10 times bar diameter.
 - 1. For inserts, make hole same diameter as insert, depth as required for proper embedment, and straight.
 - 2. Make holes in sound Base Facility concrete.
 - 3. Clean holes of dust and debris.

C. Epoxying:

- 1. Mix epoxy in strict accordance with manufacturer's instructions.
- 2. Apply material and set reinforcing and fresh concrete within the first 25 percent of manufacturer's stated curing time. Prevent displacement of mating surfaces while curing.
- 3. For reinforcing steel, fill hole full depth without air pockets and install reinforcing centered on axis of hole and reinforcing. Remove exudation.
- 4. For fresh concrete-to-Base Facility concrete, "butter" entire Base Facility mating surface. Force epoxy onto and into entire surface, removing air pockets.

D. Installation:

1. Drill required holes, clean surfaces, and install inserts. Fill unused and improper holes fully with non-shrink grout.

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- 2. Fasten steel framing to inserts and install remainder of steel cross members following Section 05500.
- 3. Install and fasten metal deck on framing.
- 4. Install reinforcing steel dowels.
- 5. Install reinforcing steel over metal deck and tie to dowels.
- 6. Install epoxy on Base Facility concrete mating surface and install fresh concrete. Strike top surface of new concrete flush with Base Facility concrete. Texture as required to receive floor finish.
- 7. Cure concrete with methods to provide proper bond with floor finish.
- 8. Apply fireproofing to underside of deck and framing, lapping at least 4 inches onto abutting Base Facility structure, and of thickness required for two-hour rating.

3.12 GYPSUM DRYWALL SYSTEMS

- A. Follow Section 09 .
- B. Fasten new framing to Base Facility with powder-actuated or drill-in fasteners at conditions subject to shear and compression loads, with drill- in fasteners at conditions subject to tension loads, and with drywall screws firmly secured to Base Facility metal framing.
- C. Fire-tape only at concealed surfaces following Section 07 .
- 3.13 PLASTER
 - A. Follow Section 09__.
- 3.14 PAINT
 - A. Prepare and prime substrates following manufacturer's recommendations.
 - B. Apply paint with equipment as required to achieve match with Base Facility. Apply at rates recommended by manufacturer.

| | Follow Section 09 | · |
|---------|-----------------------|---------------------|
| Edit 3. | 15 and 3.16 for appli | cability. |
| **** | ****** | ******************* |

3.15 TERRAZZO REPAIR

A. Follow recommendations of National Terrazzo and Mosaic Association.

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- B. Repair existing cracks as follows after sample approval:
 - 1. Remove sealer from surface adjacent to cracks using stripper or ammonia.
 - 2. Rout cracks with a power tool. Remove foreign matter and clean surfaces with water. Allow to dry.
 - 3. Blend resin patch material to match color of adjacent existing matrix. Add marble dust or non-fading pigment as required.
 - 4. Following resin manufacturer's instructions. Force mixed resin as deeply into void as possible.
 - 5. If cracks are large enough, insert marble chips of the same blend as adjacent existing terrazzo while patching resin is still wet.
 - 6. Trowel surface smooth to slightly above level of adjacent existing terrazzo.
 - 7. Cure following resin manufacturer's instructions.
 - 8. Grind surface of repaired cracks with progressively finer-grit stones to match texture and sheen of adjacent existing terrazzo.
 - 9. If repairs do not match existing, repeat steps 2 through 8 until match is achieved.
 - 10. Seal repaired areas and adjacent existing terrazzo with penetrating-type terrazzo sealer.
 - 11. Buff sealer to match sheen of existing adjacent sealed terrazzo.
- C. Repair existing holes as follows after sample approval:
 - 1. Remove sealer from surface adjacent to cracks using stripper or ammonia.
 - 2. Remove metal or plastic conduit, bolts, studs, junction boxes or metal plates.
 - 3. Carefully enlarge holes as required to complete removal of foreign matter. Slightly undercut vertical wall around resulting voids. Remove foreign matter and clean surfaces with water. Allow to dry.
 - 4. Prepare and install 4:1 sand-cement leveling bed as required for installation of terrazzo patches. Moist cure minimum 24 hours.
 - 5. Fully moisten surfaces in void with water immediately before installing bonding paste. Remove standing water.

- 6. Mix and install cement-rich bonding paste on moist remaining surfaces. Scrub into surfaces. Moist cure minimum 24 hours with plastic cover taped to existing terrazzo.
- 7. Before bonding paste dries, prepare terrazzo topping (mixture of matrix and marble chips) and install. Trowel surface smooth to slightly above level of adjacent existing terrazzo.
- 8. Seed additional marble chips into moist terrazzo topping mixture as required to match color and density of chips and matrix in adjacent existing terrazzo.
- 9. Consolidate terrazzo topping as required to remove air pockets and extract excess water. Trowel-finish to slightly above level of adjacent existing terrazzo.
- 10. Cover repaired areas with full sheet (tape joints) plastic curing membrane taped to adjacent terrazzo. Prevent excess moisture loss. Cure following topping manufacturer's instructions, minimum 72 hours.
- 11. After proper cure, grind new terrazzo with progressively finer-grit stones, starting with No. 40-grit, flush with adjacent surfaces and finish matching sheen of unsealed terrazzo.
- 12. Polish new terrazzo with No. 80-grit stone, and progressively finer-grit stones if required, to match sheen of existing adjacent unsealed terrazzo.
- 13. If repairs do not match existing, repeat steps 2 through 11 until match is achieved.
- 14. Seal repaired areas and adjacent existing terrazzo with penetrating-type terrazzo sealer.
- 15. Buff sealer to match sheen of existing adjacent sealed terrazzo.

3.16 TERRAZZO REPLACEMENT

- A. Follow recommendations of National Terrazzo and Mosaic Association.
- B. Replace designated existing terrazzo flooring as follows after sample approval:
 - 1. Remove sealer from surface adjacent to designated panels using stripper or ammonia.
 - 2. Remove existing terrazzo topping and existing sand-and-cement setting bed down to existing concrete slab or subfloor. Remove metal base-plate covers, metal or plastic conduit, bolts, studs, junction boxes, buried conduit and abandoned wiring. Verify abandoned wiring following Section 01726 Base Facility Survey.

- 3. Leave existing metal divider strips in place and protect from damage. If damaged, provide new divider strips matching existing metal alloy, thickness (minimum 16 gage), depth and patterns. Install new strips true and plumb.
- 4. Remove foreign matter and clean surfaces with water. Allow to dry.
- 5. Fully moisten surfaces in void with water immediately before installing bonding paste. Remove standing water.
- 6. Mix and install cement-rich bonding paste to moist structural slab and face of divider strips. Scrub into concrete. Moist cure minimum 24 hours with plastic cover taped to existing terrazzo.
- 7. Mix and install 4:1 sand-cement leveling bed. Moist cure minimum 24 hours with plastic cover taped to existing terrazzo.
- 8. Before bonding paste dries, mix terrazzo product at ratio of two parts blended marble chips to one-part Portland cement plus minimum quantity of marble dust, adding water for proper plasticity. Provide blend of marble chips, dust, pigments and matrix as required to match existing terrazzo after finishing.
- 9. Seed additional marble chips into moist terrazzo topping mixture as required to match color and density of chips and matrix in adjacent existing terrazzo.
- 10. Consolidate terrazzo topping as required to remove air pockets and extract excess water. Trowel-finish to slightly above level of adjacent existing terrazzo.
- 11. Cover repaired areas with full sheet (tape joints) plastic curing membrane taped to adjacent terrazzo. Prevent excess moisture loss. Cure following topping manufacturer's instructions, minimum 72 hours.
- 12. After proper cure, grind new terrazzo with progressively finer-grit stones, starting with No. 40-grit, flush with adjacent surfaces and finish matching sheen of unsealed terrazzo. Fill discovered pinholes with matching matrix.
- 13. Polish new terrazzo with No. 80-grit stone, and progressively finer-grit stones if required, to match sheen of existing adjacent unsealed terrazzo.
- 14. If repairs do not match existing, repeat steps 3 through 10 until match is achieved.
- 15. Seal repaired areas and adjacent existing terrazzo with penetrating-type terrazzo sealer.
- 16. Buff sealer to match sheen of existing adjacent sealed terrazzo.

3.17 INTERIM CLEANING

- A. Clean occupied areas daily. Immediately remove spillage, overspray, dust and debris in occupied areas and at points of access into contract limits. Sweep and wet mop floors as required, using safety cones and tape barricades as required cleaning operations.
- B. Make surfaces ready for work of successive trades.
- C. At completion of work in each area, provide final cleaning following Section 01770 Contract Closeout.

END OF SECTION

CUTTING AND PATCHING

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SECTION 01761

PROTECTION OF EXISTING SERVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements to protect existing services and minimize impact of interruptions.

1.02 DEFINITIONS:

- A. Service is defined to include utilities (natural gas, water, or power); lighting and emergency lighting; data and telecommunications; closed-circuit video, control and monitoring circuits, and air conditioning, heating, and ventilating. Service types include:
 - 1. Power.
 - 2. Lighting, and emergency lighting.
 - 3. Paging.
 - 4. Telephone.
 - 5. Video.
 - 6. Data and computer networks.
 - 7. Water.
 - 8. Natural gas.
 - 9. Heating, ventilating, and air conditioning
- B. Data and Telecom Service is defined to include:
 - 1. Wiring and cable used for the transmission of data, voice, or video information.
 - 2. Wiring for low voltage monitoring and control of various types of devices.
- C. Service interruption is defined to include any temporary or permanent inability to provide the service as contracted or as intended and includes interference with or disruption to source, distribution, or terminal items of a service system.
- D. Response time is defined to be the time elapsed between the time that a Service Interruption becomes known to the Contractor and the time that a person is at the site of the interruption

1.03 PERFORMANCE REQUIREMENTS

- A. Contractor is required to protect and maintain existing services to those operating areas of the Airport.
 - 1. Where services are affected by construction activities and interruption of service is required to complete the Work, schedule service interruption to minimize impact.
 - 2. Where services cannot be interrupted, provide alternate services or circuits as required to maintain affected services. Design and implement service "cut-over" so that services are maintained without interruption.
- B. Train employees and subcontractors to ensure that accidental service interruptions are promptly recognized, and appropriate responses can be initiated.
- C. Maintain personnel, equipment, and parts at hand or on call to provide the response times indicated.
- D. Interruptions to Existing Service are classified as follows:
 - 1. Security Service Interruption:
 - a. Any service interruption of power, lighting, or data and telecom service that affects and compromises one of the following:
 - (1) FAA Security
 - (2) Airline Security
 - (3) Airport Security
 - (4) Other government entity charged with enforcing security at the Airport (Houston Police Department, FBI, Secret Service, etc.).
 - b. Security Services must be active at all times.
 - 2. Life Safety Service Interruption:
 - a. Any service interruption of power, lighting, or data and telecom service affecting or compromising one or more of the following life safety systems.
 - (1) Fire/smoke alarms.

- (2) Emergency lighting.
- (3) Elevator operations in "Fire" mode.
- (4) Emergency intercom systems.
- b. Life Safety Services must be active at all times.
- 3. Business Service Interruption:
 - a. 'Any service interruption of utility service (power, lighting, natural gas, data and telecom, etc.) that affects and compromises the ability of a profit-seeking entity to earn revenue, including:
 - (1) Airline: Includes FIDS network, reservation/confirmation systems, paging systems.
 - (2) Tenants Other Than Airlines: Point of sale systems, reservation/confirmation systems, utilities for storing, cooking, or maintaining food for sale to the public.
 - b. Business Services must be active at all times in the areas of the Airport served by Airlines or other tenants during hours of their operation.
- 4. Comfort / Convenience Service Interruption:
 - a. Any service interruption of power, lighting, or data and telecom services affecting or compromising the comfort or convenience of those using the Airport (passengers, visitors, employees, concessionaires, etc.) including:
 - (1) Lighting.
 - (2) Air Conditioning.
 - (3) Heating.
 - (4) Public telephones.
 - (5) Elevators.
 - b. Minimize Comfort/Convenience Service Interruptions except in construction areas.

1.04 **SUBMITTALS**

- Schedule of service interruptions. A.
- Emergency Response Plan.

1.05 QUALITY ASSURANCE

A. Develop emergency response plan for each class of service interruption indicated. Notify other contractors responsible for services and obtain contact information. Where possible, obtain written instructions for emergency repairs from the contractor responsible for each service. Where required, arrange for contractor personnel to be available to meet required response times.

1.06 COORDINATION AND SEQUENCING

A. Schedule and execute construction activities to prevent service interruption or, where service interruption is required to complete the Work, minimize service interruption.

1.07 SCHEDULING

- A. Follow Section 01325.
- B. Develop a schedule of required service interruptions. Coordinate with the schedules required by Section 01325 and revise as required by the City or project conditions.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 CONTRACTOR RESPONSIBILITIES:

- A. Follow Section 01726.
- B. Scheduled Service Interruptions: Notify the City Engineer in writing not less than 7 days in advance of a scheduled service interruption. In notifying of the Scheduled Service Interruptions, click on the weblink https://hasonbase.houstonairportsystem.net/OnBaseWeb_Prod_WF/UnityForm.aspx?key=UFK_ey and review the checklist. At the bottom of the checklist, check the box confirming attendance of the Contractor Safety Requirement meeting, and Contractor and all Subcontractors understands and will comply with all Houston Airport System (HAS) and OSHA requirements.
- C. Complete a Work Area Notification form by clicking on the weblink https://hasonbase.houstonairportsystem.net/OnBaseWeb_Prod_WF/UnityForm.aspx?key=UFK ey for any/all service interruptions and/or; for,
- D. Unscheduled Service Interruptions to Data and Telecom Service:
 - 1. Immediately notify IAH 24-Hour Emergency Dispatch Service at (281) 230-3024 [HOU 24-Hour Emergency Dispatch Service at (713) 641-4000; EFD Dispatch

Service during 0800-1700, M-F, call 713-847-4234, (after hours call: 713-847-4200]. *Do not attempt to repair these lines. Include the following information:*

- a. Location.
- b. Area(s) affected.
- c. Type and classification of service (if known).
- d. Entities affected (if known).
- 2. In addition to the notification requirements above, immediately notify the City Engineer of interruption.
- Unscheduled Service Interruptions to Service Other Than Data and Telecom Service: E.
 - 1. When executing Work in an area known to have existing services, maintain on-site or on-call capability to initiate repairs to unscheduled service interruptions within the response times required.
 - 2. Immediately notify the City Engineer of interruption.
 - a. Location.
 - b. Area(s) affected.
 - c. Type and classification of service (if known).
 - d. Entities affected (if known).
 - 3. Response Times to Interruptions to Existing Service:
 - a. Security Service Interruption: 15 minutes.
 - b. Life Safety Service Interruption: 15 minutes.
 - c. Business Service Interruption:
 - (1) Service Interruptions to Airlines: 15 minutes.
 - (2) Service Interruptions to Tenants other than Airlines: 1 hour.
 - d. Comfort/Convenience Service Interruption: 1 hour.

END OF SECTION

SECTION 01770 CONTRACT CLOSEOUT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittal of Operation and Maintenance (O & M) manual, lien releases, record documents, badges, and keys.
- B. O & M manual format and contents.
- C. Final cleaning. Interim cleaning is specified in Section 01505.
- D. Systems demonstrations and personnel training.
- E. Notification of Substantial Completion.
- F. Contractor's punch list.
- G. Record of the Work.
- H. Forwarding of Contractor-Salvaged products (CSP), and extra products.

1.02 SUBMITTALS

- A. Two weeks before Substantial Completion inspection, submit 2 sets of Preliminary O & M manual (Paragraph 1.03), 1 copy to Designer and 1 copy direct to City Engineer.
- B. Subsequent to Preliminary O & M manual submittal and precedent to final Certificate for Payment, submit the following:
 - 1. The Contractor shall submit Preliminary O&M Manuals to the City for review and acceptance a minimum of 60 calendar days prior to starting the commissioning process.
 - 2. Release or Waiver of Liens and consents of sureties following Documents 00700-General Conditions and 00800 Supplementary Conditions.
 - 3. BIM As-Built and BIM Record Documents
 - a. Provide the final coordinated trade construction as-built and/or fabrication models in native format, to the City at regular intervals at the end of the Construction Phase that will have incorporated all addenda, approved Change Orders, and the

modifications and deliver the final record model to the City as part of the project close-out documents.

- b. The format of the delivered documents shall consist of:
 - 1) PDF files of drawings and specifications.
 - 2) HAS approved AutoCAD version of drawings.
 - 3) Native formats of the BIM model including HAS approved Revit version.
 - 4) HAS approved version of Navisworks files and Civi3D
 - 5) All information, drawings and manuals should conform with HAS approved BIM standards and BPxP.
- 4. File organization, File directory structure, Sheet Borders, titles, method of delivery and other specifications should be in conform to HAS CAD/GIS Data Standards and HAS BIM Standards, available in www.fly2houston.com/tip.
- 5. Security identification badges.
- 6. Construction and other master keys.

1.03 O&M MANUAL CONTENTS AND FORMAT

A. Provide O & M Manual with full information to allow matching products under future contracts to products under this contract, and to allow City to operate, maintain and repair (for user-serviceable aspects) products, including trade names, model or type numbers, colors dimensions, and other physical characteristics.

B. Electronic Format:

Submit in searchable PDF to reflect 8.5" x 11" inch page and margins shall be formatted
for double-sided print out or copy. Large format shall be pre-approved by the City.2.
Sections within the O & M Manual shall also be formatted to reflect dividers if a
printout copy is desired.3. Cover of the O& M Manual shall be titled "OPERATION
AND MAINTENANCE MANUAL, title of project and subject matter and "Number_
of_if multiple volumes are developed. Include the City's Project Number and AIP/CIP
Number.

C. Contents:

1. Table of Contents for each volume, naming each Part.

- 2. Part 1: Directory with name, address, and telephone number of Designer, Contractor, and Subcontractors and Suppliers for each Project Manual Section.
- 3. Part 2: Operation and maintenance instructions, arranged by Project Manual Section number where practical, and where not, by system. Include:
 - a. For finish materials, maintenance instructions prepared by manufacturers, including recommended cleaning methods and materials and special precautions identifying detrimental agents.
 - b. Utility, door and window hardware, HVAC, plumbing and electrical products, prepared by product manufacturer, including:
 - 1) Product design criteria, functions, normal operating characteristics, and limiting conditions.
 - 2) Assembly, installation, alignment, adjustment, checking instructions, and troubleshooting guide.
 - 3) Operating instructions for start-up, normal operation, regulation and control, normal shutdown, and emergency shutdown.
 - 4) Lubrication and detailed maintenance instructions; detailed drawings giving location of each maintainable part and lubrication point and detailed instructions on disassembly and reassembly of products.
 - 5) Spare parts list for operating products, prepared by manufacturers, including detailed drawings giving location of each maintainable part; describe predicted life of parts subject to wear, lists of spares recommended for user-service inventory, and nearest source of in-stock spares.
 - 6) Outline, cross-section, and assembly drawings; engineering data; wiring diagrams.
 - 7) Test data and performance curves.
- 4. Part 3: Project documents and certificates, including:
 - a. Shop drawings, product data, and where practical, samples.
 - b. Air and water balance reports.
 - c. Certificates of occupancy or use.
 - d. Product certifications and mix designs.

- e. Material Safety Data Sheets.
- 5. Part 4: Copy (not original) of each warranty form containing language of final warranty.
- 6. Part 5: Meeting notes from systems demonstrations.
- 7. Revise content and arrangement of preliminary Manual until approval by City Engineer.

1.04 FINAL CLEANING

- A. Execute final cleaning prior to Substantial Completion [of each Stage].
- B. Clean surfaces exposed to view; remove temporary labels and protective coverings, stains and foreign substances; polish transparent and glossy surfaces; vacuum carpeted and soft surfaces. Clean equipment and fixtures to sanitary condition. Clean permanent filters and install new replaceable filters at equipment. Clean HVAC diffusers.
- C. Remove and legally dispose of waste and surplus products and rubbish, including from roofs, gutters, downspouts, drainage systems, pavements, lawn and landscaped areas, and elsewhere from site.
- D. Sweep streets and parking areas, rake lawn and landscaped areas.
- E. Wash roofs, opaque building walls and sidewalks.
- F. Remove temporary facilities and controls.
- G. Leave premises in spotless condition, requiring no further cleaning of construction by City.
- H. Adjust products to proper operating condition.
- I. Correct defective function of products.

1.05 SYSTEMS DEMONSTRATIONS AND PERSONNEL TRAINING

- A. Demonstrate proper operation and maintenance of each product to City's maintenance personnel precedent to Substantial Completion inspection.
 - 1. Operate HVAC, plumbing, and electrical systems 7 continuous days precedent to personnel training.
- B. Precedent to submittal of O & M Manual, train City's maintenance personnel in proper operation, adjustment, and maintenance of products and systems, using the preliminary O

- & M Manual as the basis of instruction. Continue training until City's personnel demonstrate proper knowledge and skills.
- C. Take minutes of meetings, including sign-in sheet, and record subjects covered in each session. Bind minutes in O&M Manual.

1.06 NOTIFICATION OF SUBSTANTIAL COMPLETION

- A. When Contractor considers the Work (or a designated portion or stage thereof identified in Section 01326 Construction Sequencing) substantially complete, submit written notice and Punchlist (Paragraph 1.04) to City Engineer.
 - 1. Do not claim Substantial Completion until authorities having jurisdiction issue certificates of occupancy or use and related inspections affirming compliance.
 - 2. Attach copy of each certificate to Substantial Completion form.
- B. Within a reasonable time after receipt of certificates, an inspection will be made by City Engineer and Designer to determine status of completion.
- C. Should the Work be determined by City Engineer as not substantially complete as a result of any Substantial Completion inspection, Contractor will be notified in writing.
 - 1. Remedy deficiencies.
 - 2. Send written notice of Substantial Completion as above.
 - 3. City Engineer and Designer will reinspect the Work.
 - 4. Pay costs of Designer's second and subsequent Substantial Completion inspections, by Change Order.
- D. When the Work is determined as substantially complete, the Certificate of Substantial Completion will be executed.

1.07 CONTRACTOR'S PUNCHLIST

- A. Prior to and in connection with Substantial Completion procedures, prepare a written Punchlist on a [room-by-room] [area-by-area] basis [for each stage] and as follows:
 - 1. Designer will provide one reproducible copy of then-current floor plans. These drawings are the basis of Contractor's Punchlist.
 - 2. Inspect the Work and mark applicable comments on the floor plans. Prepare written notes as required to supplement notes made on drawings.

- 3. Continue completion of the Work including Punchlist items, marking off completed items.
- 4. Forward 3 diazo prints of the annotated Drawings to City Engineer accompanied by notification that Substantial Completion Inspection is ready.
- B. Schedule Punchlist Inspection and other closeout inspections through City Engineer.
- C. Punchlist inspection will be attended by the following as a minimum:
 - 1. Contractor, Contractor's Superintendent, and applicable Subcontractors' superintendents. Attend with Punchlist drawing.
 - 2. City Engineer.
 - 3. Designer.
 - 4. Others of City Engineer's choice.
- D. Substantial Completion inspection will be made during one or more mutually agreed times to inspect the Work, to review and amend Contractor's Punchlist. If the work is substantially complete, Document 00645 Certificate of Substantial Completion will be executed.
 - 1. Amendments to the Contractor's Punchlist will be made on the reproducible.
 - 2. Within 5 days of execution of Document 00645, provide 4 copies of the amended Punch List and original Document 00645 to City Engineer.
- E. Expeditiously correct work.
- F. Process each reinspection as above and in Paragraph 1.04.
- G. Punchlist items and corrections required after execution of Document 00650 Certificate of Final Completion will be processed as warranty work following Document 00700 General Conditions, Paragraph 3.12.

1.08 RECORD OF THE WORK

- A. Following requirements expand Paragraph 3.16 of Documents 00700 General Conditions and 00800 Supplementary Conditions.
- B. Record information concurrently with construction progress. Do not conceal work until required information is recorded.

- C. Keep in a secure location in the [field office (Section 01505- Temporary Facilities) at the site] [Contractor's office] and timely record the Work as actually built as the Work progresses.
 - 1. Contractor shall maintain one full size set of Construction Documents and one set of the Project Manual(s) in the Contractor's Field office. In addition, the Contractor shall maintain one record set of submittal data, video and photographic data, and other record data as required by to support and supplement record changes made on Drawings and the Project Manual(s).
 - 2. Legibly note variations from Contract Documents on Drawings, Project Manual and submittal data, whichever most clearly shows the change.
 - 3. Clearly mark each document in red ink "RECORD OF THE WORK. Use only for recording field deviations and actual constructed conditions and arrangements."
- D. Keep documents current and make available for inspection by City Engineer.
- E. Show following minimum information, as applicable to type of work, marked in fine-point red ink:
 - 1. Measured depths of foundation elements in relation to finish first floor datum.
 - 2. Measured horizontal locations and elevations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Elevations of underground utilities referenced to City's benchmark utilized for project.
 - 4. Measured locations of internal utilities, environmental systems and appurtenances concealed in construction, referenced to visible and accessible features of construction.
 - 5. Field changes of dimension and detail.
 - 6. Changes made by RFI (Document 00931).
 - 7. Changes made by Modifications.
 - 8. Details not on original Contract Documents.
 - 9. References to related shop drawings, product data, samples, RFIs and Modifications.
- F. Upon completion of the Work, collect diazo prints of marked-up Drawings, one single-sided copy of marked-up Project Manual, one set of shop drawings (including diskettes of CADD files prepared as part of the Contract, such as data required by Section 01340- Shop Drawings, Product Data and Samples), one original set of product data (Section 01340), one set of RFIs, one set of Modifications, one set of originals of video tapes and one copy of photographs (Section 01321 Construction Photographs), and other required documents.

| 1. | Clearly mark | each | document, | immediately | adjacent | to | the | "RECORD | OF | THE |
|----|------------------------------|------|-----------|-------------|----------|----|-----|---------|----|-----|
| | WORK" mark, in red ink thus: | | | | | | | | | |

| "CERTIFIED AS THE CORREPERFORMED. | CT AND | COMPLETE | RECORD | OF | WORK |
|-----------------------------------|----------------------|---------------|--------|----|------|
| | | or Firm Name) | | | |
| | (Authorize (Date) | ed Signature) | | | |
| | (') | | | | |

- G. Transmit all records to City Engineer.
- H. Transmit reproducible copies of Drawings (see Section 01110 Summary of Work) to City Engineer.
- I. Submit proper record of the Work, in addition to other requirements in the Contract Documents, precedent to City Engineer's authorization for release of final payment.
- 1.09 FORWARDING CSP AND EXTRA PRODUCTS
 - A. Before submitting final application for payment, forward remaining proper CSP (Section 01110 Summary of Work), extra products, including spare parts (specified in other Sections) to location designated by City Engineer.
 - B. Furnish pallets and containers as required for proper product storage.
 - C. Unload products from Contractor's vehicles. Place pallets, containers and products as directed by City Engineer.
 - D. Obtain written transfer of title or receipt.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01782 OPERATIONS AND MAINTENANCE DATA

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittal requirements for equipment and facility Operations and Maintenance (O&M) Manuals

1.02 MEASUREMENT AND PAYMENT

A. Measurement for equipment O&M Manuals is on a lump sum basis equal to five percent of the individual equipment value contained in Schedule of Unit Prices or Schedule of Values. The lump sum amount may be included in the first Progress Payment following approval of the O&M Manuals by Project Manager.

1.03 SUBMITTALS

- A. Conform to requirements of Section 01330 Submittal Procedures. Submit a list of O&M Manuals and parts manuals for equipment to be incorporated into the Work.
- B. Submit documents with 8-1/2 x 11-inch text pages, bound in 3-ring/D binders with durable plastic covers.
- C. Print "OPERATION AND MAINTENANCE INSTRUCTIONS", Project name, and subject matter of binder on covers when multiple binders are required.
- D. Subdivide contents with permanent page dividers, logically organized according to the Table of Contents, with tab titling clearly printed under reinforced laminated plastic tabs.
- E. O&M Manual contents: Prepare a Table of Contents for each volume, with each Product or system description identified.
 - 1. Part 1 Directory: Listing of names, addresses, and telephone numbers of Design Consultant, Contractor, Subcontractors, and major equipment Suppliers.
 - 2. Part 2 O&M instructions arranged by system. For each category, identify names, addresses, and telephone numbers of Subcontractors and Suppliers and include the following:
 - a. Significant design criteria.
 - b. List of equipment.

- c. Parts list for each component.
- d. Operating instructions.
- e. Maintenance instructions for equipment and systems.
- f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions identifying detrimental agents.
- 3. Part 3 -Project documents and certificates including:
 - a. Shop Drawings and relevant data.
 - b. Air and water balance reports.
 - c. Certificates.
 - d. Photocopies of warranties.
- F. Submit two copies of O&M Manuals and parts manuals, for review, within one month prior to placing the equipment or facility in service.
- G. Submit one copy of completed volumes in final form 10 days prior to final inspection. One copy with Project Manager comments will be returned after final inspection. Revise content of documents based on Project Manager's comments prior to final submittal.
- H. Revise and resubmit three final volumes within 10 days after final inspection.

1.04 EQUIPMENT O&M DATA

- A. Furnish O&M Manuals prepared by manufacturers for all equipment. Manuals must contain, as a minimum, the following:
 - 1. Equipment functions, normal operating characteristics, and limiting conditions.
 - 2. Assembly, Installation, alignment, adjustment, and checking instructions.
 - 3. Operating instructions for start-up, normal operation, regulation and control, normal shutdown, and emergency shutdown.
 - 4. Detailed drawings showing the location of each maintainable part and lubrication point with detailed instructions on disassembly and reassembly of the equipment.
 - 5. Troubleshooting guide.

- 6. Spare parts list, predicted life of parts subject to wear, lists of spare parts recommended to be on hand for both initial start-up and for normal operating inventory, and local or nearest source of spare parts availability.
- 7. Outline, cross-section, and assembly drawings with engineering data and wiring diagrams.
- 8. Test data and performance curves.
- B. Furnish parts manuals for all equipment, prepared by the equipment manufacturer, which contain, as a minimum, the following:
 - 1. Detailed drawings giving the location of each maintainable part.
 - 2. Spare parts list with predicted life of parts subject to wear, lists of spare parts recommended on hand for both initial start-up and for normal operating inventory, and local or nearest source of spare parts availability.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01785 PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Maintenance and submittal of record documents and Samples.

1.02 MAINTENANCE OF DOCUMENTS AND SAMPLES

- A. Maintain one record copy of documents at the site in accordance with Document 00700 General Conditions,
- B. Store record documents and Samples in field office, if a field office is required by the Contract, or in a secure location. Provide files, racks, and secure storage for record documents and Samples.
- C. Label each document "PROJECT RECORD" in neat, large, printed letters.
- D. Maintain record documents in a clean, dry, and legible condition. Do not use record documents for construction purposes. Do not use permit drawings to record Modifications to the Work.
- E. Keep record documents and Samples available for inspection by Project Manager.
- F. Bring record documents to progress review meetings for viewing by Project Manager and, if applicable, Design Consultant.

1.03 RECORDING

- A. Record information legibly with red ink pen on a set of blueline opaque drawings, concurrently with construction progress. Maintain an instrument on site at all times for measuring elevations accurately. Do not conceal work until required information is recorded
- B. Contract Drawings and Shop Drawings: Mark each item to record completed Modifications, or when minor deviations exist, the actual construction including:
 - 1. Measured depths of elements of foundation in relation to finish first floor datum.
 - 2. Measured horizontal locations and elevations of Underground Facilities and appurtenances, referenced to permanent surface improvements.
 - 3. Elevations of Underground Facilities referenced to City of Houston benchmark utilized for the Work.

PROJECT RECORD DOCUMENTS

- Project No. 957
 - 4. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 5. Dimensions and details of field changes.
 - 6. Changes made by Modifications.
 - 7. Details not on original Drawings.
 - 8. References to related Shop Drawings and Modifications.
 - Survey all joints of water mains at the time of construction. Record on Drawings, water main invert elevation, elevation top of manway, and centerline horizontal location relative to baseline.
 - D. For large diameter water mains, mark specifications and addenda to record:
 - 1. Manufacturer, trade name, catalog number and Supplier of each Product actually installed.
 - 2. Changes made by Modification or field order.
 - 3. Other matters not originally specified.
 - E. Annotate Shop Drawings to record changes made after review.
- **SUBMITTALS** 1.04
 - At closeout of the Contract, deliver Project record documents to Project Manager. A.
- PART 2 PRODUCTS (NOT USED)
- **EXECUTION (NOT USED)** PART 3

END OF SECTION

SECTION 02 4119

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes selective removal and subsequent offsite disposal of portions of existing building indicated on drawings and as required to accommodate new construction.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner's designated storage area.
- C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 MATERIALS OWNERSHIP

A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.4 INFORMATIONAL SUBMITTALS

- A. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 - 2. Interruption of utility services.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Use of elevator and stairs.
 - 5. Locations of temporary partitions and means of egress.
 - 6. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- B. Inventory: After selective demolition is complete, submit a list of items that have been removed and salvaged.

C. Pre-demolition Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.

1.5 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Professional Engineer Qualifications: Professional engineer legally authorized to practice in jurisdiction where Project is located and experienced in providing engineering services of kind indicated for demolitions similar to this Project and has a record of successful in-service performance
- C. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction. Comply with applicable regulations, codes and ordinances.
- D. Standards: Comply with ANSI A10.6 and NFPA 241.
- E. Proposed Dust-Control and Noise-Control Measures: Written statement or drawing that indicates the measures proposed for use, proposed locations, and proposed time frame for their operation. Identify options if proposed measures are later determined to be inadequate.
- F. Pre-demolition Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to selective demolition including, but not limited to, the following:
 - 1. Inspect and discuss condition of construction to be selectively demolished.
 - 2. Review structural load limitations of existing structure.
 - 3. Review and finalize selective demolition schedule.
 - 4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.

1.6 PROJECT CONDITIONS

A. Occupied Buildings:

- 1. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.
- 2. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- B. Owner assumes no responsibility for condition of areas to be selectively demolished. Conditions existing at time of inspection for bidding will be maintained by Owner as far as practical.

- C. Hazardous Materials: If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- D. Storage or sale of removed items or materials on-site will not be permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

1.7 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
 - 1. If identical materials are unavailable or cannot be used for exposed surfaces, fully use materials that visually match existing adjacent surfaces possible.
 - Use materials whose installed performance equals or surpasses that of existing materials.
- B. Comply with material and installation requirements specified in individual Specification Sections.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate, and measure the nature and extent of conflict. Promptly submit a written report to Architect.

- E. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.
- F. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

3.2 UTILITY SERVICES

- A. Existing Utilities: Maintain services indicated to remain and protect them against damage during selective demolition operations.
- B. Occupied Buildings: Do not interrupt existing utilities serving occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to authorities having jurisdiction.
 - 1. Provide at least 72 hours' notice to Owner if shutdown of service is required during changeover.
- C. Utility Requirements: Locate, identify, disconnect, and seal or cap off indicated utilities serving areas to be selectively demolished.
 - 1. Arrange with Owner to shut off indicated utilities.
 - 2. If utility services are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary utilities that bypass area of selective demolition and that maintain continuity of service to other parts of building.
 - 3. Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
 - 2. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 3. Protect existing site improvements, appurtenances, and landscaping to remain.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and

to and from occupied portions of building.

- 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
- 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
- 4. Cover and protect furnishings, and equipment that have not been removed.
- C. Temporary Enclosures: Provide temporary enclosures for protection of existing building and construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
 - 1. Where heating or cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
- D. Temporary Partitions: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
- E. Temporary Shoring: Provide and maintain shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of construction to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished. Strengthen or add new supports when required during progress of selective demolition.

3.4 POLLUTION CONTROLS

- A. Dust Control: Use water mist, temporary enclosures, and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.
 - 1. Do not use water when it may damage existing construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.
 - 2. Wet mop floors to eliminate trackable dirt and wipe down walls and doors of demolition enclosure. Vacuum carpeted areas.
- B. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- C. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

3.5 SELECTIVE DEMOLITION

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

- Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
- 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
- 3. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
- 4. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
- 5. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, verify condition and contents before starting flame-cutting operations.
- 6. Maintain portable fire-suppression devices during flame-cutting operations.
- 7. Maintain adequate ventilation when using cutting torches.
- 8. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
- 9. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
- 10. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- 11. Dispose of demolished items and materials promptly.
- 12. Return elements of construction and surfaces that are to remain to condition existing before selective demolition operations began.
- B. Existing Facilities: Comply with building manager's requirements for using and protecting elevators, stairs, walkways, loading docks, building entries, and other building facilities during selective demolition operations.
- C. Removed and Salvaged Items: Comply with the following:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers.
 - 3. Store items in a secure area until delivery to Owner.
 - 4. Transport items to Owner's storage area designated by Owner.
 - 5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items: Comply with the following:
 - 1. Clean and repair items to functional condition adequate for intended reuse. Paint equipment to match new equipment.
 - 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 - 3. Protect items from damage during transport and storage.
 - 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable,

protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
 - 1. Completely fill holes and depressions in existing concrete or masonry that are to remain with an approved masonry patching material applied according to manufacturer's written recommendations.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.8 SELECTIVE DEMOLITION SCHEDULE

A. Refer to the drawings.

END OF SECTION

SECTION 07 9500

EXPANSION CONTROL JOINT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Expansion control assemblies and supplementary items necessary for installation.

1.2 DEFINITIONS

- A. Maximum Joint Width: Widest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- B. Minimum Joint Width: Narrowest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- C. Movement Capability: Value obtained from the difference between widest and narrowest widths of a joint opening typically expressed in numerical values (mm or in) or a percentage (plus or minus) of nominal value of joint width.
- D. Nominal Joint Width: The width of the linear opening specified in practice and in which the joint system is installed.

1.3 ACTION SUBMITTALS

- A. Product Data: Manufacturer's technical literature for each product and system indicated.
 - 1. Include manufacturer's specifications for materials, finishes, construction details, installation instructions, and recommendations for maintenance.
- B. Shop Drawings: Show details of fabrication and installation, including plans, elevations, sections, details of components and attachments to other work. Distinguish between shop and field-assembled work.
 - Placement Drawings: Include line diagrams showing plans, elevations, sections, details, splices, blockout requirements, entire route of each joint system, and attachments to other work. Where joint systems change planes, provide isometric or clearly detailed drawings depicting how components interconnect to achieve continuity and termination of joint covers and fillers.
 - 2. Architectural Joint System Schedule: Prepared by or under the supervision of the supplier. Include the following information in tabular form:
 - a. Manufacturer and model number for each joint system.
 - b. Joint system location cross-referenced to Drawings.
 - c. Nominal joint width.
 - d. Movement capability.

- e. Materials, colors, and finishes.
- f. Product options.
- g. Fire-resistance ratings.
- Samples for Verification Purposes: For each type of architectural joint systemindicated.
 - 1. Full width by 6 in (150 mm) long, for each system required.

1.4 INFORMATIONAL SUBMITTALS

- A. Manufacturer's Project Acceptance Document: Certification by the manufacturer that its product(s) are approved, acceptable, suitable for use in specific locations, for specific details, and for applications indicated, specified, or required, and that a warranty will be issued.
- B. Field Quality Control Reports: Written report of testing and inspection required by "Field Quality Control".

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer with not less than 5 years of experience in the successful production and in-service performance of products and systems similar to scope of this Project.

B. Installer Qualifications:

- 1. Experience: Installer's personnel with not less than 5 years of experience in the successful performance of Work similar to scope of this Project.
- 2. Supervision: Installer shall maintain a competent supervisor at Project while the Work is in progress, and who has not less than 5 years of experience installing products and systems similar to scope of this Project.
- 3. Manufacturer Acceptance: Installer shall be certified, approved, licensed, or acceptable to manufacturer to install products.

1.6 PRE-INSTALLATION CONFERENCE

- A. Pre-Installation Conference: Before Work begins, conduct conference at Project site.
 - 1. Participants:
 - a. Architect.
 - b. Contractor, including superintendent.
 - c. Installer, including project manager and supervisor.
 - d. If requested, Manufacturer's qualified technical representative.
 - e. Installers of other construction interfaced with Work.
 - Minimum Agenda: Installer shall demonstrate understanding of the Work required by describing detailed procedures for preparing, installing, and cleaning the Work.
 Demonstration shall include, but not be limited to, following topics:

EXPANSION JOINT CONTROL

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- a. Tour representative areas of Work, inspect and discuss condition of substrate, and other preparatory work performed by other trades.
- b. Review Contract Document requirements.
- c. Review approved submittals.
- d. Review inspection and testing requirements.
- e. Review environmental conditions and procedures for coping with unfavorable conditions.
- f. Resolve deviations or differences between Contract Documents and the manufacturer's specifications.
- 3. Record discussions, including decisions and agreements, and prepare report.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original undamaged packages or acceptable bulk containers.
- B. Store packaged materials to protect them from elements or physical damage.

1.8 PROJECT CONDITIONS

A. Field Measurements: Where products and systems are indicated to fit walls and other construction, verify dimensions by field measurements before fabrication.

1.9 COORDINATION

- A. Coordinate installation of products and systems with interfacing and adjoining construction to provide a successful installation without failure.
- B. Coordinate installation of exterior expansion control assemblies to ensure that transitions are watertight.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

- A. Available Manufacturers and Products: Subject to compliance with requirements of Contract Documents as judged by the Architect, manufacturers offering products that may be incorporated into the Work include, but are not limited to, those listed.
- B. Basis of Design (Product Standard): Contract Documents are based on products and systems specified to establish a standard of quality. Other available manufacturers offering products having equivalent characteristics may be considered, provided deviations are minor and comply with requirements of Contract Documents as judged by the Architect.

2.2 MATERIALS, GENERAL

A. Single Source Responsibility: Furnish each type of product from single manufacturer. Provide secondary materials only as recommended by manufacturer of primary materials.

2.3 PERFORMANCE REQUIREMENTS

- A. General: Provide factory-fabricated expansion joint assemblies capable of withstanding the types of loads and of accommodating the kinds of movement, and the other functions for which they are designed including those specified below, without failure. Types of failure include those listed in Appendix X3 of ASTM E 1399.
 - 1. Joints in Fire-Resistance-Rated A s s e m b l i e s : Maintain fire-resistance ratings of assemblies.
 - 2. Joints in Smoke Barriers: Maintain integrity of smoke barrier.
 - 3. Joints in Acoustically Rated Assemblies: Maintain STC rating of penetrated partition. Refer to plans and to partition type sheet(s) for STC ratings of partitions.
 - 4. Other Joints: Where indicated, provide joint systems that prevent penetration of water, moisture, and other substances deleterious to building components or content.
 - 5. Joints in Surfaces with Architectural Finishes: Serve as finished architectural joint closures.
- B. Accessibility Requirements for Floor Expansion Joint Systems: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines (ADAAG)" and ICC A117.1.
- C. Fire-Test-Response Characteristics: Where indicated, provide architectural joint system and fire-barrier assemblies identical to those of assemblies tested for fire resistance per UL 2079 or ASTM E 1966 by a testing and inspecting agency acceptable to authorities having jurisdiction.

2.4 MATERIALS

- A. Aluminum: ASTM B 221 / B 221M, Alloy 6063-T5 for extrusions; ASTM B 209 / B 209M, Alloy 6061-T6 for sheet and plate.
 - Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious materials.
- B. Elastomeric Seals: Manufacturer's standard; pre-formed elastomeric membranes or extrusions to be installed in metal frames.
- C. Compression Seals: Manufacturer's standard; pre-formed rectangular elastomeric extrusions having internal baffle system and designed to function under compression.
- D. Strip Seals: Manufacturer's standard; pre-formed elastomeric membrane or tubular extrusions having an internal baffle system and secured in or over a joint by a metal locking rail.
- E. Cellular Foam Seals: Manufacturer's standard; extruded, compressible foam designed to function under compression.

- F. Fire Barriers: Manufacturer's standard; material or material combination, when fire tested after cycling, designated to resist the passage of flame and hot gases through a movement joint and to meet performance criteria for required rating period. Fire barriers shall comply with requirements specified in "Performance Requirements" Article for fire-test-response characteristics and be designed for dynamic structural movement without material degradation or fatigue when tested according to ASTM E 1399. Provide fire-rated expansion assemblies with manufacturer's continuous, standard, flexible fire-barrier seals behind joint system at locations indicated to provide fire-resistance rating not less than rating of adjacent construction.
- G. Accessories: Manufacturer's standard: anchors, clips, fasteners, set screws, spacers, and other accessories compatible with material in contact, as indicated or required for complete installations.

2.5 ARCHITECTURAL JOINT SYSTEMS, GENERAL

- A. General: Provide architectural joint systems of design, basic profile, materials, and operation indicated. Provide units with capability to accommodate variations in adjacent surfaces.
 - 1. Furnish units in longest practicable lengths to minimize field splicing. Install with hairline mitered corners where joint changes direction or abuts other materials.
 - 2. Include factory-fabricated closure materials and transition pieces, tee-joints, corners, curbs, cross-connections, and other accessories as required to provide continuous joint systems.
 - 3. Fire Barrier: Not less than rating of adjacent construction.
- B. Design architectural joint systems for the following size and movement characteristics:
 - 1. Nominal Joint Width: As indicated on Drawings.
 - 2. Maximum Joint Width: As indicated on Drawings.
 - 3. Minimum Joint Width: As indicated on Drawings.
 - 4. Movement Capability: As indicated on Drawings.
 - 5. Type of Movement: Thermal.

2.6 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING INTERIORS

- A. Floor-to-Floor Joint Systems: Manufacturers and Products:
 - 1. Type 10:
 - a. Balco, Inc.; PS Series.
 - b. Construction Specialties, Inc. (C/S Group); SSR Series.
 - c. InPro Corporation JointMaster; 501 Series.
 - d. MM Systems Corporation; PDS Series.
 - e. Watson Bowman Acme Corp.; SPJ Series.
- B. Floor-to-Wall Joint (Corner) Systems: Manufacturers and Products:
 - 1. Type 13:

- a. Construction Specialties, Inc. (C/S Group); SSRW Series. (Basis of Design)
- b. InPro Corporation JointMaster; 501 Series.
- c. MM Systems Corporation; PDSE Series.
- d. Watson Bowman Acme Corp.; SPJ Series.

2.7 MISCELLANEOUS MATERIALS

- A. Elastomeric Sealant: ASTM C 920, elastomeric silicone polymer sealant; of type, grade, c, and use cifications required to seal joints in sheet metal flashing and trim and to remain watertight as recommended by manufacturer.
- B. Mineral-Fiber Blanket Insulation: ASTM C 665.
- C. Flexible Cellular Sponge or Expanded Rubber: ASTM D 1056.
- D. Silicone Extrusions: Cified according to ASTM D 2000, UV stabilized, and do not propagate flame.
- E. Fasteners: Manufacturer's recommended fasteners suitable for application and designed to withstand design loads.
 - Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.

F. Epoxy Grout Fill:

- 1. General: Use epoxy grout fill in accordance with manufacturer's application limitations, precautions, and directions for use, including but not limited to surface preparation, mixing, placing, curing, and compatibility with substrate conditions.
- 2. Description: Multi-component, high strength epoxy grout.
- 3. Manufacturers and Products:
 - a. BASF Construction Chemicals; MasterFlow 648.
 - b. Laticrete; L&M EpoGrout 758 Epoxy Structural Grout.
 - c. MAPEI Corp: Planigrout 350.

2.8 ALUMINUM FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of accepted Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of accepted Samples and are assembled or installed to minimize contrast.

- D. Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
- E. Clear Anodic Finish for Wall and Ceiling Covers: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Acceptance of Surfaces and Conditions: Examine substrates to receive products and systems and associated work for compliance with requirements and other conditions affecting performance. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents. Starting work within a particular area will be construed as acceptance of surface conditions.

3.2 INSTALLATION, GENERAL

- A. Installation Quality Standards: In addition to standards listed elsewhere, perform Work according to following, unless otherwise specified:
 - 1. Respective manufacturer's written installation instructions.
 - 2. Accepted submittals.
 - 3. Contract Documents.
- B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

3.3 PREPARATION

- A. General: Comply with manufacturer's instructions, recommendations and specifications for cleaning and surface preparation. Surfaces shall have no defects, contaminants, or errors which would result in poor or potentially defective installation or would cause latent defects in Work.
- B. Repair concrete slabs and blockouts using manufacturer's recommended repair grout of compressive strength adequate for anticipated structural loadings.
- C. Coordinate and furnish anchorages, setting drawings, and instructions for installing joint systems. Provide fasteners of metal, type, and size to suit type of construction indicated and to provide for secure attachment of joint systems.

3.4 INSTALLATION

- A. Metal Frames: Perform cutting, drilling, and fitting required to install joint systems.
 - 1. Install in true alignment and proper relationship to joints and adjoining finished surfaces

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- measured from established lines and levels.
- 2. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature at time of installation. Notify Architect where discrepancies occur that will affect proper joint installation and performance.
- 3. Cut and fit ends to accommodate thermal expansion and contraction of metal without buckling of frames.
- 4. Locate in continuous contact with adjacent surfaces.
- 5. Standard-Duty Systems: Shim to level where required. Support underside of frames continuously to prevent vertical deflection when in service.
- 6. Heavy-Duty Systems: Repair or grout blockout as required for continuous frame support and to bring frame to proper level. Shimming is not allowed.
- 7. Locate anchors at interval recommended by manufacturer, but not less than 3 in (75 mm) from each end and not more than 24 in (600 mm) on center.
- B. Elastomeric Seals in Metal Frames: Install elastomeric seals and membranes in frames to comply with manufacturer's written instructions. Install with minimum number of endjoints.
 - 1. Provide in continuous lengths for straight sections.
 - 2. Seal transitions according to manufacturer's written instructions. Vulcanize or heat-weld field-spliced joints as recommended by manufacturer.
 - 3. Installation: Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by manufacturer.
- C. Epoxy-Bonded Seals: Pressurize seal for time period and to pressure recommended by manufacturer. Do not over-pressurize.
- D. Cellular Foam Seals: Apply adhesive or lubricant adhesive as recommended by manufacturer to both sides before installing cellular foam seals.
- E. Terminate exposed ends of joint assemblies with field- or factory-fabricated termination devices.
- F. Fire-Resistance-Rated Assemblies: Coordinate installation of architectural joint assembly materials and associated work so complete assemblies comply with assembly performance requirements.
 - 1. Fire Barriers: Install fire barriers to provide continuous, uninterrupted fire resistance throughout length of joint, including transitions and field splices.

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Manufacturer's qualified technical representative shall periodically inspect Work to ensure installation is proceeding in accordance with manufacturer's designs, recommendations, instructions, and warranty requirements. Representative shall submit written reports of each visit indicating observations, findings, and conclusions of inspection.
 - 1. Manufacturer's Technical Representative Qualifications: Direct employee of technical

services department of manufacturer with experience in providing recommendations, observations, evaluations, and problem diagnostics.

3.6 PROTECTION

- A. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.
- B. Protect the installation from damage by work of other Sections. Where necessary due to heavy construction traffic, remove and properly store cover plates or seals and install temporary protection over joints. Reinstall cover plates or seals prior to Substantial Completion of the Work.
- C. Provide final protection and maintain conditions in a manner acceptable to manufacturer and Installer that ensures that expansion joint assemblies are without damage or deterioration at time of Substantial Completion.

END OF SECTION

SECTION 09 0565 FLOOR PREPARATION FOR RENOVATION WORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

- 1. Floor substrate testing for flatness, moisture vapor transmission, alkalinity.
- 2. Floor substrate preparation and remediation.
- 3. Installation of trowel applied and self-leveling floor leveling materials.
- 4. Installation of moisture floor treatment for moisture vapor transmission problems.
- B. Allowances: Provide the following under the allowances indicated as specified in Division 01 Section "Allowances":
 - 1. Flooring Preparation Allowance: include an Allowance of <Insert \$ amount here> for repair and remediation of the substrate. Repair and remediation includes:
 - a. Removal of unacceptable coatings on existing substrates.
 - b. Removal of high spots by sanding or grinding.
 - c. Installation of trowelable polymer-modified cementitious underlayment to fill depressions to a maximum variation of 1/8 in (3 mm) gap under a 10 ft (3 m) straightedge.
 - d. Installation of self-leveling cementitious underlayment where required under this section, and where depression depth exceeds 3/8 in (10 mm) and is recommended by manufacturer in lieu of trowelable underlayment.
 - 2. Moisture Floor Treatment Allowance: include an Allowance of <Insert \$ amount here> for installation of moisture vapor reducing membrane for all areas indicated to receive impervious and/or resinous floorings to include:
 - a. Removal of unacceptable coatings on existing substrates.
 - b. Installation of moisture vapor reducing membrane for finishes indicated.
 - c. Post-installation verification testing of moisture vapor transmission rate.
 - 3. Provide pro-rated unit costs for work performed under allowances, by dividing total cost under the allowance by square feet estimated for work under the allowance. Provide unit price for work in 100 sq ft (9 sq m) increments.
 - Unit price shall be used for determining payment of work under the allowance.
- C. Unit Prices: Furnish the following under the unit prices indicated as specified in Division 01 Section "Unit Prices":
 - 1. Unit Price Trowelable Polymer-Modified Cementitious Underlayment:
 - a. Provide unit price to furnish and install a sufficient quantity of trowelable polymer-modified cementitious underlayment to cover an area of 50 sq ft (4.5 sq m) to a depth of up to 1/8 in (3 mm), equivalent to 0.5 cubic ft (0.14 cubic m) of

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material.

- b. Unit of measurement: 0.5 cubic ft (0.14 cubic m) of material, according to manufacturers expected yield for material mixed in accordance with written directions
- 2. Unit Price Self-leveling Cementitious Underlayment:
 - a. Provide unit price to furnish and install a sufficient quantity of self-leveling cementitious underlayment to cover an area of 50 sq feet (4.5 sq m) to a depth of up to 1/4 in (6 mm), equivalent to 1 cubic ft (0.28 cubic m) of material.
 - b. Unit of measurement: 1 cubic ft (0.28 cubic m) of material, according to manufacturers expected yield for material mixed in accordance with written directions.
- 3. Unit Price Moisture Floor Treatment:
 - a. Provide a unit price to furnish and install moisture vapor reducing membrane to cover an area of 100 sq ft (9 sq m), in areas indicated to receive impervious and/or resinous floorings.
 - b. Unit of measurement: Sufficient material to cover 100 sq ft (9 sq m).
 - c. Unit price shall include:
 - Any required additional substrate preparation for moisture vapor reducing membrane.
 - 2) Post-installation verification testing of moisture vapor transmission rate.
- D. Alternates: Provide the following under the alternate indicated as specified in Division 01 Section "Alternates":
 - 1. Alternate No. 09-0565-1: Moisture Vapor Reducing Membrane: Provide moisture vapor reducing membrane for all areas indicated to receive impervious and/or resinous floorings to include:
 - a. Removal of unacceptable coatings on existing substrates.
 - b. Installation of moisture vapor reducing membrane for finishes indicated.
 - c. Post-installation verification testing of moisture vapor transmission rate.

1.2 ACTION SUBMITTALS

- A. Product Data: Manufacturer's technical literature for each product and system indicated.
 - 1. Include manufacturer's specifications for materials, finishes, construction details, installation instructions, and recommendations for maintenance.
 - 2. Preparation Instructions: Finished flooring manufacturer's written preparation instructions.
- B. Shop Drawings: Plans indicating substrates, locations, and average depths of underlayment based on survey of substrate conditions.
 - 1. Maintain as-built mark-up plans on site, indicating the quantity of underlayment installed in each area indicated, areas added or deleted, and date underlayment was installed.
- 1.3 INFORMATIONAL SUBMITTALS

- A. Field Quality Control Reports: Written report of testing and inspection required by "Field Quality Control".
 - 1. Provide test reports for each type and location of field test, indicating type of test, location of test site, test values, values required to pass, and identification of testing agency.
- B. Quality Assurance submittals:
 - Certifications:
 - a. Submit certification of qualification from the installer.
 - b. Submit certification of compliance with specifications and flooring manufacturer's requirements for floor preparation.
 - 1) Furnish copies with Operating and Maintenance Manual.
 - 2. Test reports: submit copies of field test reports, with location of test indicated, for the following:
 - a. Concrete slab moisture vapor transmission rate
 - b. Concrete slab alkalinity
 - c. Concrete floor flatness and levelness
 - 3. Flooring preparation plan: Provide written plan indicating locations, flooring material, substrate, proposed remediation products, and proposed preparation steps based on known or anticipated conditions.
 - a. Coordinate plan with written preparation and installation instructions provided by finished flooring manufacturer and written instructions of remediation products specified under this Section.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with not less than 5 years of experience in the successful production and in-service performance of products and systems similar to scope of this Project.
- B. Installer qualifications:
 - 1. Experience: Installer's personnel with not less than 3 years of experience in the successful performance of Work similar to scope of this Project.
 - 2. Supervision: Installer shall maintain a competent supervisor at Project while the Work is in progress, and who has not less than 3 years of experience installing products and systems similar to scope of this Project.

1.5 PRE-INSTALLATION CONFERENCE

- A. Pre-Installation Conference: Before Work begins, conduct conference at Project site.
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review requirements for verification and testing of subfloor condition, subfloor

- preparation, and environmental conditions required at time of flooring installation.
- 3. Review requirements for installation and protection of moisture vapor reducing membrane.
- 4. Review flooring product requirements for subfloor flatness, subfloor surface profile, moisture vapor transmission, and alkalinity.
- B. Testing Agency Qualifications: An independent agency qualified according to ASTM E 329 for testing indicated.
 - 1. Flatness and levelness testing: Floor flatness and levelness testing shall be performed by a technician trained in the use of the testing equipment and the procedures of ASTM E 1155.
- C. Preconstruction Testing Service: Engage a qualified independent testing agency to test flooring substrate for compliance with specified requirements for performance and test methods.
- 1.6 DELIVERY, STORAGE, AND HANDLING
 - A. Deliver materials to jobsite or offsite warehouse in unopened wrapping, boxes or containers.
 - B. Storage:
 - 1. Store materials in a covered, climate controlled facility, with temperatures between 40 deg F and 90 deg F (4 deg C and 32 deg C).
 - 2. Store material off ground or floor in protective packaging.
 - 3. Do not permit materials to become wet.

1.7 PROJECT CONDITIONS

A. Field Measurements: Indicate measurements on Shop Drawings.

1.8 COORDINATION

- A. Coordinate installation of products and systems with interfacing and adjoining construction to provide a successful installation without failure.
- B. Coordinate schedule and location of testing to minimize disruption of Work.
- C. Coordinate requirements for testing, preparation, and remediation work with work specified in other sections.

1.9 WARRANTY

- A. Manufacturer's Warranty: Furnish manufacturer's written material and labor warranty signed by an authorized representative using manufacturer's standard form agreeing to furnish materials and labor required to repair or replace work which exhibits material defects caused by manufacture or design and installation of product. "Defects" are defined to include but not limited to deterioration or failure to perform as required.
 - 1. Defects include, but are not limited to, the following:
 - a. Structural failures including delamination or blistering.
 - b. Incompatibility with or failure of product to adhere to substrate material up to the

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tensile strength of concrete.

- 2. Replacement includes removal of existing flooring and underlayment or moisture vapor reducing membrane, replacement of defective or non-performing material, and replacement of finish flooring with new flooring of the same type.
- 3. Period of warranty: As specified.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

A. Available Manufacturers and Products: Subject to compliance with requirements of Contract Documents as judged by the Architect, manufacturers offering products that may be incorporated into the Work include, but are not limited to, those listed.

2.2 MATERIALS, GENERAL

A. Single Source Responsibility: Furnish each type of product from single manufacturer. Provide secondary materials only as recommended by manufacturer of primary materials.

2.3 TROWELABLE POLYMER-MODIFIED CEMENTITIOUS UNDERLAYMENT

- A. Underlayment: Hydraulic-cement-based, polymer-modified, trowelable product that can be applied to a maximum uniform thickness of 3/8 in (10 mm) and that can be feathered at edges to match adjacent floor elevations.
 - 1. Manufacturers and Products:
 - a. ARDEX Engineered Cements; SD-F Feather Finish.
 - b. BASF:
 - 1) MasterEmaco R300 (FormerlySonneborn Sonocrete Sonopatch PC).
 - MasterTop 115 FC (Formerly Sonneborn Sonoskim).
 - 3) MasterTop 116 FC (Formerly Thoro Underlayment (Trowel Grade)).
 - c. Bonsal American; B-1 Leveler.
 - d. Dayton Superior Corporation; Sure Finish.
 - e. Dependable Chemical Co., Inc.; Skimcrete.
 - f. L&M Construction Chemicals, Inc.; Durathin.
 - g. MAPEI Corporation; Planiprep SC
 - h. TEC; VersaPatch.
 - 2. Cement Binder: ASTM C 150, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C 219.
 - a. Do not use air entraining agents or cements.
 - 3. Compressive Strength: Not less than 3500 psi (24 MPa) at 28 days when tested according to ASTM C 109/C 109M.
- B. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer formulated for use with underlayment when applied to substrate and conditions indicated.

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2.4 SELF-LEVELING CEMENTITIOUS UNDERLAYMENTS

- A. Underlayment: Hydraulic-cement-based, polymer-modified, self-leveling product that can be applied in minimum uniform thicknesses of 1/8 in (3 mm) and that can be feathered at edges to match adjacent floor elevations.
 - 1. Manufacturers and Products:
 - a. ARDEX Engineered Cements; K-15 Self-Leveling Underlayment Concrete.
 - b. BASF:
 - 1) MasterTop 110 SL (Formerly MBT Mastertop 110 Plus Underlayment)
 - 2) MasterTop 110 SL (Formerly Sonneborn Sonocrete Sonoflow).
 - c. Bonsal American; ProSpec Self-Leveling Underlayment.
 - d. Dayton Superior Corporation; LeveLayer I.
 - e. Dependable Chemical Co., Inc.; Skimflow ES.
 - f. L&M Construction Chemicals, Inc.; Levelex.
 - g. MAPEI Corporation; Ultraplan 1 Plus.
 - h. Maxxon Corporation; Level-Right.
 - i. US Mix Products Company; US SPEC Self Leveling Underlayment.
 - 2. Cement Binder: ASTM C 150, Portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C 219.
 - a. Do not use air entraining agents or cements.
 - 3. Compressive Strength: Not less than 4100 psi (28 MPa) at 28 days when tested according to ASTM C 109/C 109M.
 - 4. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer formulated for use with underlayment when applied to substrate and conditions indicated.
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 in (3 to 6 mm), or coarse sand as recommended by underlayment manufacturer.
 - 1. Provide aggregate when recommended in writing by underlayment manufacturer for underlayment thickness required.

2.5 TOPPING MORTAR

- A. Mortar: Premixed, Portland-cement-based, polymer-modified, trowelable product that can be applied to a minimum uniform thickness of 3/8 in (10 mm), level or sloped up to 4 in (100 mm), in one or more lifts.
 - 1. Manufacturers and Products:
 - a. ARDEX Engineered Cemetns: ERM.
 - b. MAPEI Corporation; Planislope RS.
 - c. Sika Corporation; SikaTop 122 Plus.
 - 2. Cement Binder: ASTM C 150, Portland cement.

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- Do not add air entraining agents, cements, or other additives.
- 3. Compressive Strength: Not less than 6500 psi (24 MPa) at 28 days when tested according to ASTM C 109/C 109M.

2.6 MOISTURE FLOOR TREATMENT

- A. Epoxy-Based Moisture Floor Treatment: Two-component, high-performance, non-flammable, rapid drying, water based, low odor, low VOC, two-component, penetrating epoxy; formulated to reduce moisture vapor transmission and surface alkalinity from concrete substrates, including aged or freshly placed ("green") concrete, prior to installation of impervious glued-down finish flooring specified in other Division 09 sections.
 - 1. Basis of Design (Product Standard): Bostik, Inc.; D-250.
 - 2. MAPEI Corp: Planiseal VS
- Cementitious Overcoat: Fast-setting latex-fortified Portland cement skim coating intended for interior uses.
 - 1. Basis of Design (Product Standard): Bostik, Inc.; Webcrete 95.
 - 2. MAPEI Corp; Ultraplan LSC

2.7 PRIMER

A. Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.

2.8 WATER

A. Potable, at a temperature of not more than 70 deg F (21 deg C).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Acceptance of Surfaces and Conditions: Examine substrates to receive products and systems and associated work for compliance with substrate condition, maximum moisture content, adhesive bond, substrate alkalinity, subfloor levelness and flatness tolerances, and other conditions affecting performance. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents. Starting work within a particular area will be construed as acceptance of surface conditions.
 - 1. Ensure that existing adhesives have been totally removed prior to new installation.
 - Furnish written report to the Architect/Engineer describing and locating non-conforming substrates. Do not proceed with Work until non-conforming substrates are corrected.
 - 3. Re-inspect corrected areas as required for initial examination, to confirm substrate is ready for application of flooring.
 - 4. The start of flooring installation shall indicate that substrate conditions are acceptable for application of flooring, including the following conditions:
 - a The moisture vapor transmission rate and alkalinity of the concrete subfloor and patching materials is within the acceptable limits as defined by the flooring manufacturer's requirements.
 - b. Proper bond will be obtained between the finished flooring, adhesive, moisture floor

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treatment, patching materials and concrete subfloor.

c. Subfloor flatness and levelness are within specified tolerances.

B. Site Verification of Conditions:

- 1. Test concrete floor moisture vapor transmittance rate (MVTR) using the calcium chloride test, ASTM F1869 or internal relative humidity using in-situ probes per ASTM F 2170; as acceptable to the flooring manufacturer.
 - a Pre-installation Testing:
 - 1) Perform testing prior to flooring installation, permitting enough time for additional drying or remediation of high moisture transmittance conditions.
 - 2) Test in areas scheduled to receive impervious and/or resinous floorings.
 - Perform a minimum of 3 tests for the first 1000 sq ft (90 sq m) per floor, with 1 test per additional 1000 sq ft (90 sq m).
 - 4) Maximum tested value shall be 3 pounds per 1000 sq ft (90 sq m) per 24 hours or 75 percent relative humidity at 1/4 slab depth; as acceptable to the flooring manufacturer.
 - 5) Where MVTR or relative humidity test fails, retest each non-complying area, after remediation, per requirements for initial testing.
- 2. Test alkalinity (pH) of concrete subfloor in accordance with ASTM F 710, or using method recommended by flooring manufacturer.
 - Perform test in area adjacent to each pre-installation MVTR test. Report alkalinity on the same form used for reporting results of adjacent MVTR test.
 - b. Do not apply flooring if pH is equal to or greater than 10, or maximum level acceptable to flooring manufacturer.
- 3. Floor Flatness and Levelness Testing:
 - a Verify flatness and levelness of area to receive underlayment using a 10 ft (3 m) straightedge or Type I or Type II floor profilometer capable of producing a graphic record of floor elevation changes, measured in accordance with ASTM E 1155.
 - b. Tolerances: Areas exceeding tolerances shall receive cementitious underlayment to meet or exceed installation tolerances specified in the Section.
 - 1) Flatness:
 - a) Straightedge: 1/8 in (3 mm) gap under a 10 ft (3 m) unleveled straightedge, when measured between any 2 high points.
 - b) Profilometer: any aggregate area with a maximum flatness variation exceeding 1/8 in (3 mm) from highpoint to low-point
 - 2) Level Alignment: Variance in elevation of top of slab in any structural bay shall not exceed 3/4 in (19 mm).
 - c Test Sections less than 8 feet on a side or less than 320 sq ft (30 sq m) or at slab boundaries, block-outs or other discontinuities excluded by ASTM E 1155: measure surface so gap to at any point between concrete surface and an unleveled freestanding 10 ft (3 m) long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/8 in (3 mm).

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3.2 INSTALLATION, GENERAL

- A. Installation Quality Standards: In addition to standards listed elsewhere, perform Work according to following, unless otherwise specified:
 - 1. Respective manufacturer written installation instructions.
 - 2. Accepted submittals.
 - 3. Contract Documents.

3.3 PREPARATION FOR FLOORING INSTALLATION

- A. General: Comply with manufacturer's instructions, recommendations, and specifications for cleaning and surface preparation. Surfaces shall have no defects, contaminants, or errors which would result in poor or potentially defective installation or would cause latent defects in Work.
- B. Concrete Substrates: Prepare according to ASTM F710.
- C. Prepare substrates according to floor covering manufacturer's written recommendations to ensure adhesion of floor coverings.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Perform tests recommended by manufacturer and as specified. Proceed with installation only after substrates pass testing.
- D. Remove existing flooring, including underlayments, and setting beds (where applicable) to expose a sound substrate. Grind substrate if required to thoroughly remove any traces of the floor material adhesive or other foreign material.
 - 1. Remove adhesives from all existing floors receiving new covering, where recommended or required by finished flooring manufacturer, using methods recommended or approved by the flooring manufacturer.

E. Surface preparation:

- Concrete subfloors and cementitious underlayments shall cure a minimum of 28 days before flooring is installed.
- 2. Scrape, grind, or otherwise remove projections from the face of subfloor to level with the subfloor.
- 3. Neatly patch, fill, or otherwise repair all cracks, marks, irregularities, and other conditions in the subfloors that may telegraph through the finished installation.
- 4. Apply moisture floor treatment where moisture vapor transmission rate or internal relative humidity exceeds limits indicated in specifications.
- 5. Apply trowelable polymer modified cementitious underlayment where required to correct subfloor irregularities and floor depressions greater than a 1/8 in (3 mm) gap under a 10 ft (3 m) straightedge.
- 6. Apply trowelable polymer modified cementitious underlayment at transition edge between resilient flooring and dissimilar flooring materials to allow for a "flush" transition. The slope of the underlayment shall provide for a gradual transition to the thicker flooring material.
- 7. Trowelable polymer modified cementitious fill shall be steel troweled smooth. Trowel marks showing through installed flooring shall be reason to remove flooring and sand out trowel marks.

- 8. For areas scheduled to receive epoxy flooring or tile, remove concrete surface and contaminants using bead blasting methods, to a maximum profile depth of 1/8 in (3 mm).
- 9. Apply topping mortar in areas scheduled to receive tile requiring slope to drain. Slope bed 1/4 in (6 mm) per foot minimum.
- 10. Apply self-leveling cementitious underlayment in areas scheduled to receive large-format (greater than 12 in (300 mm) in length) paver tile, to correct floor depressions greater than 3/8 in (10 mm), and where indicated
- F. Sweep and vacuum clean substrates to be covered by floor coverings immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Testing Services: Testing and inspecting of completed applications of moisture floor treatments and underlayments shall take place in successive stages, in areas of extent and using methods as specified. Do not proceed with application for the next area until test results for previously completed applications show compliance with requirements.
- C. Remove and replace applications of moisture floor treatment and underlayment where test results indicate that it does not comply with specified requirements.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.5 CLEANING

- A. Clean floors thoroughly, using dry methods, after completion of preparation work.
- B. Clean excess material, splatter, dust, or other foreign material from non-floor surfaces.

3.6 PROTECTION

A. Protect moisture floor treatments from damage until finish flooring is installed.

END OF SECTION

SECTION 09 3010

ENGINEERED STONE TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Modular engineered stone tiling, membrane underlayments, setting materials, grouting materials, accessories, and supplementary items necessary for installation.

1.2 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 and ANSI A137.3 apply to Work of this Section unless otherwise specified.
- Module Size: Actual tile size plus joint width indicated.
- C. Face Size: Actual tile size, excluding spacer lugs.
- D. LHT: Large and Heavy Tile. Tiles are typically larger than 8 in by 8 in (200 mm by 200 mm) or with at least one side greater than 15 in (375 mm) or weigh 5 psf (239 Pa) or heavier and have an ungauged thickness.

1.3 ACTION SUBMITTALS

- A. Product Data: Manufacturers technical literature for each product and system indicated.
 - 1. Include manufacturers specifications for materials, finishes, construction details, installation instructions, and recommendations for maintenance.

B. Shop Drawings:

- 1. Include plans of rooms and elevations of walls showing tile and patterns; include sections showing underlayments, setting materials, and grouting materials.
- 2. Include details showing widths and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.
- C. Samples for Verification Purposes: Submit samples for each item listed below of size and construction indicated. Where products involve normal color and texture variations, include sample sets showing the full range of variations expected.
 - Tile: Each type and composition of tile and for each color and finish required, at least 12 in (300 mm) square, mounted on rigid panel, and with grouted joints using product complying with specified requirements and in color approved for completed work.
 - 2. Tile Trim and Accessories: Full-size units of each type and for each color required.
 - 3. Transition strips: 6 in (150 mm) lengths of specified profile.

1.4 INFORMATIONAL SUBMITTALS

- A. List of Materials for Layered Mock-Up for Construction Quality Purposes:
 - 1. Product, material, and equipment names, model numbers, lot numbers, batch numbers,

- source of supply, and other information required to identify items used.
- 2. Receipt of list does not constitute acceptance of deviations from Contract Documents, unless such deviations are specifically approved by Architect in writing.
- B. Field Quality Control Reports: Written report of testing and inspection required by Field Quality Control.
- C. Warranty:
 - 1. Provide manufacturers written warranty covering materials and installation (labor) stating obligations, remedies, limitations, and exclusions.
- D. Manufacturer's Project Acceptance Document: Certification by the manufacturer that its product(s) are approved, acceptable, suitable for use in specific locations, for specific details, and for applications indicated, specified

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Instructions: Include in operation and maintenance manual required by Division 01 Section Closeout Requirements. Submit manufacturers instructions for maintenance of installed work, including methods and frequency for maintaining optimum condition under anticipated use. Include precautions against cleaning materials and methods which may be detrimental to finishes and performance.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with not less than 10 years of experience in the successful production and in-service performance of products and systems similar to scope of this Project.
- B. Mock-ups: Prior to fabrication and installation, build mock-up for each form of construction and finish required to verify selections made under sample Submittals and to demonstrate aesthetic effects and qualities of materials and execution. Build mock-up to comply with the following requirements, using materials indicated for the completed Work:
 - 1. Build mock-up in the location and of the size indicated or, if not indicated, as directed by Architect. Contractor shall provide structural support framework.
 - a. Show typical components, attachments to building structure, and requirements of installation.
 - b. Build mock-ups in a layered fashion omitting tile in particular areas to reveal underlayment membranes and setting bed installation including but not limited to the following:
 - 1) Tiled floor conditions at LHT mortar setting beds.
 - 2) Movement joints at tiled floor conditions.
 - Notify Architect seven days in advance of the dates and times when mock-up will be installed.
 - 3. Obtain Architect's acceptance of mock-ups before starting fabrication or installation.
 - 4. Acceptance of mock-ups does not constitute acceptance of deviations from the Contract Documents contained in mock-ups unless such deviations are specifically noted by Contractor and accepted by Architect in writing.

5. Demolish and remove mock-ups when directed by Architect unless accepted to become part of the completed Work.

1.7 PRE-INSTALLATION CONFERENCE

A. Pre-Installation Conference: Before Work begins, conduct conference at Project site.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.
- E. Handle tile that has temporary protective coating on exposed surfaces to prevent coated surfaces from contacting backs or edges of other units. If coating does contact bonding surfaces of tile, remove coating from bonding surfaces before setting tile.

1.9 PROJECT CONDITIONS

A. Environmental Limitations: Install tile only when construction in room is completed and ambient temperature and humidity conditions are being maintained to comply with referenced standards and manufacturer's written instructions

1.10 COORDINATION

A. Coordinate installation of products and systems with interfacing and adjoining construction to provide a successful installation without failure.

1.11 WARRANTY

- A. Installer's Warranty: Furnish installer's written workmanship warranty signed by an authorized representative using installer's standard form agreeing to provide labor required to repair or replace work which exhibits workmanship defects. Defects is defined to include but not limited to deterioration or failure to perform as required.
 - 1. Warranty Period: Installer shall warrant the installation to be free from workmanship Defects for a period of 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

- A. Available Manufacturers and Products: Subject to compliance with requirements of Contract Documents as judged by the Architect, manufacturers offering products that may be incorporated into the Work include, but are not limited to, those listed.
- B. Basis of Design (Product Standard): Contract Documents are based on products and systems

specified to establish a standard of quality. Other manufacturers offering products having equivalent characteristics may be considered, provided deviations are minor and comply with requirements of Contract Documents as judged by the Architect. Color selections are scheduled in Plans. Approved manufacturers include:

- 1. Trend 1565 NW 36th Street; Miami, FL 33142
- 2. Nurazzo 1205 Fanfare Drive; Dalton, GA 30721

2.2 MATERIALS, GENERAL

- A. Single Source Responsibility: Furnish each type of product from single manufacturer. Provide secondary materials only as recommended by manufacturer of primary materials.
 - 1. Tile: For each tile, obtain of same color, finish, composition, and type, from same source and production run.
 - 2. Setting and Grouting Materials: Obtain ingredients of uniform quality for each mortar and grout component from single source manufacturer. Manufacturer shall provide a system warranty for a minimum of 5 years.

2.3 PERFORMANCE REQUIREMENTS

- A. Slip Resistance Requirements for Floor Tile:
 - 1. Standards: Products and installation shall comply with ANSI A137.1, and state and local accessibility standards.
 - 2. Floor Tile Slip Resistance: For tile installed on walkway surfaces, provide products with the following value as determined by testing identical products by the DCOF AcuTest Method per ANSI A326.3:
 - a. Walkway Surfaces: Minimum 0.42.

2.4 ENGINEERED STONE TILE PRODUCTS

- A. Engineered Stone Tile, General: Composite of natural and manufactured materials, including resin, glass, quartz, quartzite and pigment formed into modular tiles, with polished finish, having uniform and consistent dimensional tolerances.
- B. Material Characteristics:
 - 1. Tile Size: Nominal 48-inches x 48-inches. See plans for locations.
 - 2. Tile Thickness: 1/4 inch
- C. Material Testing:
 - 1. Water Absorption: ASTM C373, less than 0.2 percent
 - 2. Thermal Shock: ASTM C484, No damage
 - 3. Pendulum Impact: ASTM D 256 (2018); 7.4 /0.5
 - 4. Flexural Strength: ASTM D 790M; mpa 28.1
 - 5. Abrasive Wear: ASTM C1243-93 (2015); 102.7 / 9.2
 - 6. Friction Coefficient: ASTM C1028-96 0.91 Dry / 0.63 Wet
- D. Basis of Design: Trend Group; TREND Q

2.5 CRACK ISOLATION MEMBRANE UNDERLAYMENTS

- A. General: Manufacturers standard product that complies with ANSI A118.12 as selected from one of the following available options. Include primer, pre-fabricated corners, seaming cement, detail tape, sealant, and other standard accessory products required for application provided by membrane manufacturer.
- B. Fluid-Applied Crack Isolation Membrane Underlayment: Not permitted or allowed within shower and bathtub areas.
 - 1. Description: Manufacturers proprietary system consisting of liquid applied component and synthetic fabric sheet reinforcement.
 - 2. Manufacturers and Products:
 - a. MAPEI Corp.; Mapelastic CI or equal
- C. Fabric-Reinforced, Modified-Bituminous Sheet Membrane
 - 1. Description: Self-adhering, modified-bituminous sheet with fabric reinforcement facing; 0.040-inch (1.01-mm) nominal thickness.
 - 2. Manufacturers and Product:
 - a. MAPEI Corp: Mapeguard 2 or equal

2.6 SETTING (MORTAR AND GROUT) MATERIALS

- A. Material Quality Standards: ANSI A118 Series as indicated.
- B. Mortar and Grout must be suitable for large format tile and as acceptable or as recommended by the engineered stone manufacturer.
- C. LHT Latex-Portland Cement Mortar:
 - 1. Material Quality Standard: ANSI A118.4, ANSI A118.11, ANSI A118.15 and ISO 13007 C2TFS2P2, with the following physical properties:
 - a. Manufacturer's premium polymer modified LHT mortar product; gray color. Use white color with light colored stone, translucent marble or light color grout as recommended by manufacturer.
 - b. Integral antimicrobial product added during manufacturing to resist mold and mildew growth.
 - c. Non-sag capability.
 - d. Suitable for use installing large and heavy tiles and using mortar trowels up to 1/2 in (12 mm) thick.
 - 2. Manufacturers and Products Floor Tiling:
 - a. MAPEI Corp.; Granirapid, No Subsitutions!
 - 3. Sanded Grout:
 - a. Material Quality Standard: ANSI A118.7, with following physical properties:
 - 1) Manufacturer's premium polymer modified sanded grout product.

- Integral antimicrobial product added during manufacturing to resist moldand mildew growth.
- b. Manufacturers and Products:
 - 1) Mapei Corp.; Ultracolor Plus FA Grout or equal
- c. Locations: Tile Joints 1/16 in (3 mm) wide and larger.

2.7 ELASTOMERIC SEALANTS

- A. Sealant Colors: Match color of adjacent grout unless otherwise indicated.
- B. Mildew-Resistant Floor or Wall Joint Sealant:
 - 1. Material Quality Standard: ASTM C 920, Type S, Grade NS, Class 25, with following physical properties:
 - a. Integral antimicrobial product added during manufacturing to resist mold and mildew growth.
 - b. Intended for sealing interior ceramic tile joints and other nonporous substrates.
 - c. Resistant to in-service exposures of high humidity and temperature extremes.
 - 2. Description: One-part mildew-resistant silicone sealant.
 - 3. Manufacturers and Products:
 - a. MAPEI Corp: Mapesil T or equal

C. Backer Rods:

- 1. Material Quality Standard: ASTM C 1330, Type B.
- 2. Description: Non-gassing (when punctured), bi-cellular polyethylene or polyolefin foam rod with a surface skin, of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- 3. Manufacturers and Products:
 - a. BASF Construction Chemicals; MasterSeal 921 (Formerly Sonneborn Soft Backer Rod).
 - b. Nomaco Inc.; Sof Rod.
- D. Backer Tape: Bond-breaking polyethylene or other plastic tape, self-adhesive where applicable, recommended by sealant manufacturer for preventing sealant from adhering to back of joint where such adhesion would result in sealant failure.

2.8 RELATED MATERIALS

- A. Cementitious Underlayments: Trowelable or self-leveling as required by conditions; pre-mixed, latex-modified, Portland cement based formulation provided by or specifically approved by setting material manufacturer; include primers if required for concrete substrate condition.
- B. Products Recommended by the Engineered Stone Tiling Manufacturer:
 - 1. If the sub-floor is not perfectly level, the use of a self-leveling or trowelable product is

necessary before installation. Provide recommended products acceptable to the tile manufacturer.

- Product Standard:
 - a. MAPEI Corp: Ultraplan 1 Plus self-leveling underlayment with Primer L or equal
- C. Patching Compounds: Trowelable pre-mixed, latex-modified, Portland cement based formulation provided by or specifically approved by setting material manufacturer; include primers if required for concrete substrate condition.
 - 1. MAPEI Corp: Mapecem Quickpatch or equal
- D. Metal Transition Strips (Tile to Adjacent Flooring Material):
 - 1. Refer to design selections for transitions from tile to carpet or tile to other adjacent finishes. Transitions must be flush with all adjacent materials.
- E. Glass-Fiber Tape: Self-adhering, alkali-resistant, glass-fiber tape, 10 by 10 or 10 by 20 threads per 1 in (25 mm).; minimum 2 in (50 mm) wide.
- F. Tile Cleaner: Neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, provided by or specifically approved by tile and grout manufacturers.
- G. Grout Sealer: Manufacturers standard silicone product for sealing grout joints and that does not change color or appearance of grout.

2.9 MIXING MORTARS AND GROUT

- A. General Procedures:
 - 1. Mix to comply with referenced quality standards and manufacturers written instructions.
 - 2. Add materials, water, and additives in accurate proportions.
 - 3. Use type of mixing equipment, speeds, containers, time, and other procedures to produce uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Acceptance of Surfaces and Conditions: Examine substrate surfaces to which tile will be installed for compliance with requirements, installation tolerances, and other conditions affecting performance. Proceed only when unsatisfactory conditions have been corrected in a manner complying with the Contract Documents. Starting work within a particular area will be construed as acceptance.
 - 1. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
 - 2. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- 3.2 INSTALLATION, GENERAL

- A. Installation Quality Standard: In addition to standards listed elsewhere, perform tile work according to following, unless otherwise specified:
 - 1. Respective manufacturers written installation instructions.
 - 2. Accepted submittals.
 - 3. Contract Documents.
 - 4. ANSI A108 installation method indicated.
 - 5. TCNA installation method indicated.

B. General Requirements:

- 1. Extend tile into recesses and under or behind equipment and fixtures to form a complete covering without interruptions unless otherwise indicated.
- 2. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- 3. Accurately form intersections and returns.
- 4. Perform cutting and drilling of tile without marring visible surfaces.
- 5. Grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints, to form smooth edges.
- 6. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so that plates, collars, or covers overlap tile by not less than 1/8 in (3 mm).

C. Jointing Pattern:

- 1. Unless otherwise indicated, lay tile in grid pattern.
- 2. Align joints when adjoining tiles on floor, base, walls, and trim are same size.
- 3. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting.
- 4. Provide uniform joint widths of size recommended by tile and grout manufacturer unless otherwise indicated.
- 5. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so that extent of each sheet is not apparent in finished work.
- D. Wainscots: Lay out tile to next full tile beyond dimensions indicated, and finish with bullnose shape.

3.3 PREPARATION

- A. General: Comply with manufacturers instructions, recommendations, and specifications for cleaning and surface preparation. Surfaces shall have no defects, contaminants, or errors which would result in poor or potentially defective installation or would cause latent defects in Work.
- B. Engineered Stone Manufacturer written requirements for floor flatness, leveling and preparation must be followed.
- C. Substrate Cleaning: Remove curing compounds, coatings, laitance, efflorescence, concrete dust, dirt, oil, gypsum board dust, paint, and other residue that would adversely affect or reduce bonding.
- D. Concrete Floor Preparation:
 - 1. Prepare concrete floor substrates to comply with flatness tolerance of 1/4 in in 10 ft (6

mm in 3 m) for standard format tiles or 1/8 inch in 10 ft for large format tiles per TCNA as follows:

- a. Fill cracks, holes and depressions with trowelable cementitious underlayments and patching compounds.
- b. Remove concrete protrusions, bumps, and ridges by sanding or grinding.
- 2. If substrate does not have fine broom finish, mechanically scarify concrete substrates to not less than ICRI CSP 4 finish.
- 3. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 in per foot (1:50) toward drains.
- E. Substrate Joints, Gaps, Penetrations, and Different Substrates within Shower and Tub Enclosures: Prior to installing tile, seal the following joints, gaps, and spaces between differing materials as follows:
 - 1. Penetrations: Apply wall joint sealant at penetrations through wall substrates to create water resistant barrier; especially at piping and valve penetrations.
 - 2. Joints and Corners: Apply glass-fiber tape to joints and corners of substrates within Showers and Tub Enclosures with thin-set mortar.
- F. Blending: Verify tile has been factory blended and packaged as specified; if not, either return to manufacturer or blend tiles at site before installing.
- G. Field-Applied Temporary Protective Coating: Where needed to prevent grout from staining or adhering to exposed tile surfaces, pre-coat with continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.

3.4 CRACK ISOLATION MEMBRANE UNDERLAYMENT INSTALLATION

- A. General Requirements:
 - 1. If required by manufacturer, prime concrete substrate.
 - 2. Install to produce a continuous crack isolation membrane of uniform thickness bonded securely to substrate, without wrinkles, bubbles, buckles, or kinks.
 - 3. For sheets, overlap and seal seams.
 - 4. For liquid applied products, brush or roll liquid uniformly over area in number of coats required and install reinforcing fabric.
 - 5. Roll installed sheet if required by manufacturer.
 - 6. After installation of tile, install floor joint sealant in tile joints recommended by manufacturer to coordinate with membrane strips.

3.5 TILE INSTALLATION

- A. Comply with TCNAs Handbook for Ceramic Tile Installation for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 Series Specifications for Installation of Ceramic Tile that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
- B. Installation Quality Standard: Install tile according to following standards:
 - 1. LHT Mortar: ANSI A108.5; for floor tiles larger than 8 in by 8 in (200 mm by 200 mm) or with at least one side greater than 15 in (375 mm) and where subfloor is not recessed.

- 2. Latex-Portland Grout: ANSI A108.10, typical unless indicated otherwise.
- C. Back Buttering: For following installations, obtain minimum 95 percent mortar coverage as in referenced ANSI A108 series of installation standards:
 - 1. Tile floors and ceilings in wet and limited water exposures.
 - 2. Tile floors composed of tiles 12 in by 12 in (300 mm by 300 mm) or larger.
- D. Grout Joint Widths: Install the respective types of tile with the following grout joint widths, unless otherwise recommended by tiling and grout manufacturers.
- E. Metal Trim: Install at locations indicated and where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile.
- F. Grout Sealer: Apply grout sealer to cementitious grout joints in tile floors according to groutsealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.6 MOVEMENT JOINTS

- A. Movement Joints, General: Installation Quality Standard: In accordance with TCNA Movement Joint Design Essentials EJ171 and as specified below.
- B. Wall Joints: The following conditions shall not be grouted; install wall joint sealant and backer rod or backer tape:
 - Gypsum board assembly control joints.
 - 2. Building expansion joints, unless scheduled for expansion joint cover.
 - 3. At one side of changes in direction or plane of wall.
 - 4. At joint closest and parallel to changes in substrates supporting tile between wall and floor.
- C. Interior Floor Joint Installation Schedule: Seal interior floor movement joints, as defined by TCNA, according to following schedule:
 - 1. Construction Joints: Floor joint sealant and backer rod.
 - 2. Contraction (Control) Joints: Floor joint sealant and backer rod.
 - 3. Isolation Joints: Floor joint sealant and backer rod.
 - 4. Tile Expansion Joints: Floor joint sealant and backer rod.
 - 5. Perimeter Joints between Wall and Floors: Floor joint sealant with backer tape.

3.7 FIELD QUALITY CONTROL

- A. Shower Receptor Test: Where shower floors and receptors are made water-tight by the application of the waterproof membrane, the completed membrane installation shall be tested at each installation.
 - 1. The pipe from the shower drain shall be plugged and the receptor area shall be filled with water to a depth of not less than 2 in (50 mm) measured at the threshold.
 - 2. Where a threshold of adequate height does not exist a temporary threshold shall be constructed to retain the test water to the stated depth.
 - 3. The water shall be retained for a test period of not less than 24 hours, and there shall not be evidence of leakage.

- 4. Report results of tests, both successful and unsuccessful. In addition to results, report shall include date of test, project name, list of products being applied and tested, name of applicator, name of Contractor, and conditions causing failure of waterproofing membrane in event of an unsuccessful test.
- 5. Materials and installations failing to meet specified requirements shall be replaced at Contractor's expense. Retesting of materials and installations failing to meet specified requirements shall be done at Contractor'¢¢s expense

3.8 CLEANING

A. Cleaning:

- 1. Acids are not permitted, nor will they be allowed.
- 2. Clean tile surfaces so they are free of foreign matter.
- 3. Remove grout residue from tile as soon as possible.
- 4. No sooner than 10 days after installation, clean grout smears and haze from tile according to tile and grout manufacturer's written instructions. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned.
- 5. Protect metal surfaces and plumbing fixtures from effects of cleaning.
- 6. Flush surfaces with clean water before and after cleaning.
- 7. Remove temporary protective coating by method recommended by coating manufacturer that is acceptable to tile and grout manufacturer. Trap and remove coating to prevent it from clogging drains.

3.9 DEMONSTRATION

A. Cleaning and Maintenance Training: Provide instruction to Owner's personnel for cleaning and maintenance of installed work, including methods and frequency for maintaining optimum condition under anticipated use; include precautions against cleaning materials and methods which may be detrimental to finishes and performance.

3.10 PROTECTION

- A. Coverings: When recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.
- B. Traffic Restrictions: Prohibit foot and wheel traffic from tiled floors for at least 7 days after grouting is completed.

3.11 INTERIOR TILE INSTALLATION SCHEDULE

- A. Floors, Concrete Substrate:
 - 1. TCNA Installation Method F125-Full (Crack Isolation Membrane; full coverage): Thin-set Latex-Portland cement mortar over crack isolation membrane over concrete subfloor; Latex-Portland Cement Grout.
 - a. Location: Where scheduled in the Room Finish Schedule located on the drawings and in all thin-set tile locations which have neither waterproofing nor sound

isolation schedule.

END OF SECTION

SECTION 09 3011

ELEVATOR CAB FLOOR

PREPARATION

PART 1- GENERAL

1.1 SECTION INCLUDES

- A. Setting materials.
- B. Grout materials.
- C. Bonding agents.
- D. Flexible sealant.
- E. Tile and stone sealers, finishes, maintenance, cleaners and grout haze removers.

1.2 RELATED SECTIONS

A. Section 093010 Engineered Stone Tile

1.3 REFERENCES

- A. ANSI A108 Series/A118 Series American National Standard Specifications for Installation of Ceramic Tile.
- B. ANSI A108.19 American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs.
- ANSI A137. 1 American National Standard Specifications for Ceramic Tile.
- ANSI A137.3 American National Standard Specifications for Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs.
- E. ANSI A138.1 American National Standard Specifications for Green Squared Certification for Tiles and Installation Materials.
- F. TCNA (HB) Handbook for Ceramic, Glass, and Stone Tile Installation; Tile Council of North America.
- G. TTMAC Tile Specification Guide 09 30 00 Tile Installation Manual; Terrazzo, Tile & Marble Association of Canada.
- H. ISO 13007 International Standards Organization; classification for Grout and Adhesives.
- I. LEED® Leadership in Energy and Environmental Design.
- J. LIVING BUILDING CHALLENGE (LBC) International Living Future Institute (ILFI).
- K. WELL BUILDING STANDARD International Well Building Institute (IWBI).

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. [Product Data]: Manufacturer's technical information for each product specified.
- C. Samples: Color charts for selection of grout.
- D. Installation Instructions: Manufacturer's printed instructions for each product.

1.5 QUALITY ASSURANCE

Project No. 957

- A. To ensure warranty requirements and compatibility of products; please provide all tile grout, setting materials, additives, accessories, and factory-prepared dry-set mortars from the same manufacturer.
- B. Installer Qualifications:
 - Installer is a five-star member of the National Tile Contractors Association or a Trowel
 of Excellence member of the Tile Contractors' Association of America.
 - 2. Installer's supervisor for the Project holds the International Masonry Institute's Foreman Certification.
 - 3. Installer employs Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers.

1.6 PRE-INSTALLATION CONFERENCE

- A. Convene one week prior to commencing work of this section.
- B. Require attendance of installation material manufacturer, tile supplier, tile installer and installers of related work. Review installation procedures and coordination required with related work.
- C. Meeting agenda includes but is not limited to:
 - 1. Tile and installation material compatibility.
 - 2. Grouting procedure.
 - 3. Maintenance and cleaning products and methods.
 - 4. Surface Preparation.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Prevent damage or contamination to materials by water, freezing, foreign matter or other causes.
- B. Do not use frozen materials unless specifically allowed by manufacturer.
- C. Deliver and store materials on site at least 24 hours before work begins.
- D. Provide heated and dry storage facilities on site.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions and protect work during and after installation to comply with referenced standards and manufacturer's printed recommendations.
- B. Vent temporary heaters to exterior to prevent damage to tilework from carbon dioxide build-up.
- C. Maintain temperatures at not less than 50°F (10°C) in tiled areas during installation and for 7 days after completion, unless higher temperatures are required by referenced installation standards or manufacturer's written instructions.

PART 2-PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: MAPEI Corporation, 1144 E. Newport Center Drive, Deerfield Beach, FL 33442, USA. Toll-Free Tel.: 1-800-992-6273. Rep: Sean Leich. Rep Tel: 832-276-8291.
- B. Other manufacturers offering products having equivalent characteristics may be considered, provided deviations are minor and comply with requirements of Contract Documents as judged by the Architect.

2.1 TILE

- A. Acceptable manufacturers: Subject to conformity with the enclosed requirements, provide products coming from one of the following manufacturers:
 - 1. Basis of design: Trend.
 - 2. Other manufacturers offering products having equivalent characteristics may be considered, provided deviations are minor and comply with requirements of Contract Documents as judged by the Architect.

2.3 SETTING MATERIALS

- A. Improved, Modified Dry-Set Cement Mortar for Large and Heavy Tile, Rapid Setting ANSI A118.4F, ANSI A118.11, ANSI A118.15F, and ISO 13007 C2FS2P2.
 - 1. Product: Subject to compliance with requirements, provide MAPEI, Granirapid System.

2.4 ADHESIVE

- A. Tile and Stone Setting, Improved Reaction Resin Adhesive: Highly flexible and adheres to properly prepared steel substrates; ISO 13007 R2.
 - 1. Product: Subject to compliance with requirements, provide MAPEI, Planicrete W.

2.5 WATERPROOF/CRACK ISOLATION MEMBRANE

- A. Fluid-Applied Membrane: Advanced liquid-rubber; extremely quick-drying, premium waterproofing and crack- isolation membrane, IAPMO-listed, ANSI A118.10 and ANSI A118.12.
 - 1. Product: Subject to compliance with requirements, provide MAPEI, Mapelastic AquaDefense.
 - With MAPEI, Reinforcing Fabric.

2.6 GROUT MATERIALS

A. Premium, Rapid-Setting, Cement Grout: For grout joints from 1/16 inch to 1/2 inch (1.5 mm to 12 mm).

1. Product: Subject to compliance with requirements, provide MAPEI, MAPEI Ultracolor Plus FA.

2.7 FLEXIBLE SEALANT

- A. Professional-grade, 100%-silicone sealant specifically formulated for heavy traffic expansion and movement joints, horizontal and vertical complying with ASTM standards; shore "A" hardness (ASTM C661), joint movement (ASTM C920), elongation at break (ASTM D412), flexibility (ASTM C734) and passes weatherability (Accelerated Weathering Tester QUV).
 - 1. Product: Subject to compliance with requirements, provide MAPEI, Mapesil T.

2.8 CERAMIC TILE SEALERS, FINISHES, CLEANERS AND MAINTENANCE PRODUCTS

- A. Complete line of sealers, finishes, cleaners, grout haze removers, and maintenance products for use with ceramic tile and grout.
 - 1. MAPEI, UltraCare Stone, Tile & Grout Care Solutions, www.mapei.us.

2.9 MIXES

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A. Proportion and mix materials in accordance with manufacturer's most current written instructions and applicable ANSI standards.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with tilework until surfaces and conditions comply with requirements indicated in reference tile installation standard and manufacturer's printed instructions.
- B. Installation of setting materials indicates the acceptance of substrate.

3.2 INSTALLATION

- A. Install tile in accordance with manufacturer's printed instructions and the applicable requirements of ANSI A108.19 for the materials being used.
- B. Install tile using TCNA methods specified on the drawings.
- C. Install expansion and control joints in accordance with TCNA method EJ171.

3.3 GROUTING

- A. Grout joints in accordance with manufacturer's instructions and ANSI A108.10 or ANSI A108.6.
- B. Clean standing water, dust, and foreign substances from joints to be grouted.
- C. Clean and dry tile surfaces.
- D. After grouting, remove all grout residues promptly.

3.4 PROTECTION

- A. Protect installed tile work and stone work from damages by other trades and general abuse until substantial work completion and acceptance.
- B. Refer to manufacturer's product data sheet for recommendations regarding protection.

END OF SECTION

END OF SECTION