

MAYOR SYLVESTER TURNER

CITY COUNCIL MEMBERS

AMY PECK
JERRY DAVIS
ABBIE KAMIN
CAROLYN EVANS-SHABAZZ
DAVE MARTIN
TIFFANY THOMAS

GREG TRAVIS

KARLA CISNEROS

PLANS FOR CONSTRUCTION

OF _____

CONTROLLER CHRIS B. BROWN

CITY COUNCIL MEMBERS

ROBERT GALLEGOS
EDWARD POLLARD
MARTHA CASTEX-TATUM
MIKE KNOX
DAVID ROBINSON
MICHAEL KUBOSH
LETITIA PLUMMER
SALLIE ALCORN

WILL CLAYTON / JFK FLYOVER BRIDGE RECONSTRUCTION

AT

GEORGE BUSH INTERCONTINENTAL AIRPORT / HOUSTON

PROJECT NO. 931 TIP-20-52-IAH

PREPARED BY =

ATKINS

JUNE 26, 2020 100% SUBMITTAL



ATKINS

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REVISIONS

NO. DESCRIPTION DATE BY

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GEORGE BUSH INTERCONTINENTAL ARPORT (AR)

L CLAYTON PKWY / JFK FLYOV

BRIDGE RECONSTRUCTION

COVER SHEET

PROJECT MGR: JLV
DESIGNER: EW
DRAWN 8Y: KJV
CHECK 8Y: MS
SCALE:

EDMOND S. WOODS 3 122123 CENSES

Edmend Wood:

DRECTOR HOUSTON AIRPORT SYSTEM

PROJECT NO. 100066296 ALP, NO.

> P. NO. S. NO.

931 F NO.

HAS FILE: PLOT DATE:

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PROJECT SCOPE:

THE WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION PROJECT CONSISTS OF THE FOLLOWING MAJOR WORK ELEMENTS:

- 1. REMOVE EXISTING ALUMINUM GUARDRAIL AND RETROFIT THE EXISTING CONCRETE PARAPET RAILING WITH TXDOT SSTR STYLE RAILING.
- 2. REMOVE EXISTING SIDEWALK AND CURB, AND RESTORE DECK
- 3. REMOVE EXISTING SIDEWALK AND CURB, AND INSTALL ROADWAY PAVEMENT.
- 4. INSTALL CRASH CUSHION ATTENUATORS ON BRIDGE END ABUTMENTS.
- REMOVE EXISTING CONCRETE PARAPET RAILING AND REPLACE WITH TXDOT SSTR STYLE RAILING.
- 6. MILL EXISTING BRIDGE DECK AND REPLACE WITH LATEX MODIFIED CONCRETE OVERLAY.
- 7. MODIFY EXISTING, AND PROVIDE NEW TRAFFIC SIGNAGE. 8. REMOVE AND RESTORE EXISTING CENTERPOINT LIGHTS. (TO

ABBREVIATIONS:

BE DONE BY CENTERPOINT.)

		ND ONTROL PLAN		
	Will	Cayton/JFK Flyover Bridge Reconstruction Summary of Bid Quantites		
Item Number	Spec. Number	Description	Unit	Estimate
1	TxDOT-500-6001	Mobilization and Demobilization	LS	1
2	TxDOT-100-6001	Freparing Right of Way	AC	0.5
3	01572	Erosion Control	LS	1
4	TxDOT-104-6015	Concrete Removal - Sidewalk	SY	946
5	TxDOT-104-6021	Concrete Removal - Curb	LF	3400
6	TxDOT-105-6008	Femove Stabilized Base - 6-Inch	SY	175
7	TxDOT-275-6003	Cement Treated Base - 6-Inch	SY	175
		Concrete Pavement - Joint Reinforcement - 8		
8	TxDOT-360-6002	hches	SY	175
9	TxDOT-422-6015	Approach Slab	CY	60
10	TxDOT-429-6007		SF	60
11	TxDOT-439-6008	Concrete Structure Repair (Vertical and Overnead)	SY	4350
12	TxDOT-439-6008	latex - Modified Concrete Overlay - 2.5-Inch	15	4350
13	TxDOT-446-6028	Geaning and Painting Existing Structure Retrofit Railing	LS	3204
14	TxDOT-483-6017	Milling Concrete Slab - 2-Inch	SY	4350
15	TxDOT-495-6001	Faising Existing Structure - Span (6 Spans)	LS	1
16	TxDOT-496-6025	femove STR (Approach Slab)	EA	2
17	TxDOT-502-6001	Barricades, Signs and Traffic Handling	MONTH	4
.,	12001-202-0001	particular, signs and traine training	MONTH	-
18	TxDOT-512-6005	Fortable Concrete Safety Barrier (F-Shape) - "ype I	LF	1700
		Fortable Concrete Safety Barrier (Move)(SGL	-	2.00
19	TxDOT-512-6025	SLP)(TY 1)	LF	1700
		Fortable Concrete Safety Barrier (Remove)(SQL		
20	TxDOT-512-6049	SLP)(TY 1)	LF	1700
21	TxDOT-SS6056-6001	h-Lane/Transverse Rumble Strips	LF	160
22	TxDOT-544-6001	Guardrail End Treatment (Install)	EA	1
23	TxDOT-545-6001	(rash Cushion Attenuators	EA	1
24	TxDOT-618-6025	Conduit (PVC) (Sch 40) (2") (CONC ENCSE)	LF	3204
25	TxDOT-636-6001	Aluminum Signs - Type A	EA	30
26	TxDOT-636-6007	Replace Existing Aluminum Signs - Type A	EA	5
27	TxDOT-644-6078	Remove Small Road Sign (Sign Only) Faised Pavement Markers - Reflective Pavement	EA	13
28	TxDOT-672-6007		EA	250
20	14001-072-0007	Marker, Type I-C Reflective Pavement Marker, Type II - 4-inch	EA	250
29	TxDOT-666-6167	White Lane Line	LF	1700
4.9	1,2001-000-0107	Favement Marker, Type II - 4-Inch White Edge		1700
30	TxDOT-666-6170	line	LF	3400
31	TxDOT-678-6001	Favement Surface Preparation for Markings	LF	5100
32	TxDOT-685-6004	Traffic Signal - Radar Speed Sign (Solar)	EA	1
33	TxDOT-738-6001	Cleaning and Sweeping Highways	LS	1
34	TxDOT-780-6002	Concrete Crack Repair (Discrete Inject)	LF	25
35	TxDOT-785-6010	Eridge Joint Repair (Armor)	LF	543
	TxDOT-4002-6001	Replace Elastomeric Bearing Pad - Per Span	EA	6
36	•			
	nce:	Pebris Shield/Netting	LS	1
36	nce:	Pebris Shield/Netting Centerpoint (Lightpole Removal and	LS	1
36			LS	1



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GEORGE BUSH INTERCONTINENTAL AIRPORT (AM)

ILL CLAYTON PKWY / JFK FLYOVER

BRIDGE RECONSTRUCTION

INDEX OF DRAWINGS

PROJECT MGR: DESIGNER: DRAWN BY: CHECK BY: SCALE: JLV EW KJV MS

WILL

06/26/2020



100066296

CJ.P. NO.

HAS. NO.

G-002

GENERAL NOTES

- 1. THE EXISTING CONDITIONS ILLUSTRATED WITHIN THESE PROJECT PLANS ARE DEVELOPED FROM AS-BUILT INFORMATION SUPPLEMENTED BY A PROJECT SITE VISIT. THE DESIGNER DOES NOT WARRANT THIS EXISTING CONDITIONS INFORMATION AS ALL-INCLUSIVE OR EXACT BUT RATHER AS THE BEST AVAILABLE KNOWLEDGE TRANSFER AT THE TIME OF PROJECT DEVELOPMENT. THE SOURCE OF AS-BUILT INFORMATION IS PROJECT NO: 159, KENNEDY-JETERO INTERCHANGE MODIFICATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. SHOULD THE CONTRACTOR DISCOVER ANY CONDITIONS NOT REFLECTED WITHIN THE PROJECT DOCUMENTS, HE SHALL NOTIFY THE ENGINEER OF RECORD
- THE PROJECT PAY ITEMS PROVIDED SHALL BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PROJECT PLANS. WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEMS SHALL BE INCLUDED IN THE COST OF THE PROJECT PAY ITEMS OF WHICH IT IS A COMPONENT.
- THE LOCATION FOR THE CONTRACTOR'S STAGING AREA IS INDICATED ON DRAWING G-005. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL UTILITY CONNECTIONS AND SERVICES TO AND WITHIN THE STAGING AREA AS MAY BE NECESSARY. THE CONTRACTOR SHALL PROVIDE SECURITY FENCING AROUND THE STAGING AREA(S). THE CONTRACTOR SHALL RESTORE THE STAGING AREA UPON PROJECT COMPLETION, INCLUDING REPAIR OF EXISTING FACILITIES, REMOVAL OF INSTALLED UTILITIES. REGRADING, TOP SOILING AND RESEEDING, COMPLETE AND TO THE SATISFACTION OF THE ENGINEER AND AIRPORT MANAGER. THE WORK ASSOCIATED WITH ESTABLISHING, MAINTAINING, DEMOBILIZING AND RESTORING THE CONTRACTOR'S STAGING AREA IS NOT MEASURED FOR SEPARATE PAYMENT.
- ACCESS TO THE PROJECT SITE TO/FROM THE STAGING AREA SHALL BE AS SHOWN
- THE CONTRACTOR SHALL SECURE MATERIALS STOCKPILED WITHIN THE CONSTRUCTION AND STAGING AREAS TO PREVENT THEIR MOVEMENT OF REROSION RESULTING FROM WIND CONDITIONS AND/OR RAINFALL. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS ON THE PAVEMENT WITHIN THE PROJECT WORK AREA. THE CONTRACTOR SHALL SWEEP AND/OR VACUUM ALL ACTIVE PAVEMENT AREA. AFFECTED BY THE WORK ON A DAILY BASIS. IN ADDITION, THE CONTRACTOR SHALL SWEEP/CLEAN PAYED RODWAYS ALONG THE PROJECT HAUL ROUTES AND MEDIATELY CLEAN UP MUD FALLING ON ANY PAYEMENTS OUTSIDE OF THE LIMITS OF CONSTRUCTION OR RESULTING FROM HIS HAULING ACTIVITIES. MECHANICS WEEPER AND VACUUM TRUCK SHALL BE ON-SITE AT ALL TIMES TO CLEAN ANY DEBRIS OFF THE ROADWAY PAYEMENTS FOR THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY OO OBTAIN, MAINTAIN AND PAY ALL COSTS ASSOCIATED WITH ANY PERMITS AND LICENSES REQUIRED TO ACCOMPLISH THE WORK. THESE COSTS ARE INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE CONSTRUCTION OF THE PROJECT.
- MATERIALS PRODUCED AS A RESULT OF THE CONTRACTOR'S OPERATIONS THAT ARE NOT OTHERWISE USEABLE BY THE AIRPORT SHALL BE DISPOSED OF OFF AIRPORT PROPERTY IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THERE WILL BE NO SEPARATE PAY ITEM FOR WASTE MATERIAL DISPOSAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ACTIVITIES WITH THE APPROPRIATE ENTITY, INCLUDING BUT NOT LIMITED TO HAS, CITY OF HOUSTON, AND



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GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

L CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
GENERAL NOTES WILL

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: MS SCALE: 06/26/2020

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C.LP. NO.

H.A.S. NO.

G-003

SECURITY REQUIREMENTS

- GENERAL INTENT: IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN BY HOUSTON AIRPORT SYSTEM (HAS) OPERATIONS. THE CONTRACTOR SHALL DESIGNATE TO THE ENGINEER AND AIRPORT OPERATIONS, IN WRITING, THE NAME OF HIS "CONTRACTOR SECURITY AND SAFETY OFFICER (CSSO)." THE CSSO SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT
- 2. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE CSSO SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON SECURITY REQUIREMENTS. ALL CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON SECURITY REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
- 3. ACCESS TO THE SITE: CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY AIRPORT OPERATIONS. ALL CONTRACTOR TRAFFIC AUTHORIZED TO APPROVED BY AMPORT OF MAINTENANCED IN THE ROLL ON TRACTOR HEAT FIG. AUTHORIZED TO EXPERIENCE IN THE ROUTE OR GUIDED BY CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC ON FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG THE ACCESS ROUTE AS A RESULT OF THE
- 4. MATERIALS DELIVERY TO THE SITE: ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE A DELIVERY ADDRESS, THE STREET NAME ASSIGNED TO THE ACCESS POINT AT THE CONTRACTOR'S STAGING SITE. THE NAME "GEORGE BUSH INTERCONTINENTAL AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS AT ANY TIME. HAS WILL NOT BE RESPONSIBLE FOR ACCEPTING OR DIRECTING CONTRACTOR MATERIAL DELIVERIES. CONSTRUCTION ACCESS SHALL BE ONLY VIA DESIGNATED ROUTING AND LOCATIONS.
- CONSTRUCTION AREA LIMITS: FOR THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS, SUITABLE FENCING, MARKING AND/OR WARNING DEVICES VISIBLE FOR DAY/NIGHT USE, TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS, WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY AIRPORT OPERATIONS.

AIRPORT SAFETY REQUIREMENTS

- 1. THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE EMERGENCY REQUIREMENTS AND GUIDELINES ON SAFETY.
- 2. STOCKPILE EROSION AND DUST CONTROL STOCKPILED MATERIAL AND OPEN EXCAVATIONS SHALL BE TREATED IN SUCH A MANNER AS TO PREVENT MOVEMENT RESULTING FROM WIND CONDITIONS IN EXCESS OF 10 KNOTS.
- 3. PRIOR TO OPENING FOR PUBLIC TRANSIT USE. THE OWNER'S AUTHORIZED PRIOR TO DEFINING FOR PUBLIC IRANSIT USES, THE UNIVERS AUTHORIZED REPRESENTATIVE WILL ARRANGE FOR INSPECTION BY HAS OPERATIONS OF ANY PAVEMENT THAT HAS BEEN CLOSED FOR WORK, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR. THIS AREA MUST COMPLY WITH THE SAFETY REQUIREMENTS, AND BE APPROVED BY THE DESIGNATED OPERATION'S INSPECTOR REFORE PERMISSION FOR THE CONTRACTOR'S WORK CREWS TO DEPART WILL BE GRANTED.
- 4. THE CONTRACTOR SHALL SUBMIT A DESTRUCTIVE/INCLEMENT WEATHER PLAN TO SET FORTH GENERAL GUIDANCE AND INFORMATION FOR THE CONTRACTOR TO COORDINATE PREPAREDNESS PLANS WHEN DESTRUCTIVE WEATHER THREATENS THE IAH AIRPORT ENVIRONMENT.
- 5. MATERIALS STORED OR STOCKPILED ON THE SITE SHALL BE SO PLACED, AND THE WORK SHALL, AT ALL TIMES, BE SO CONDUCTED AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAFFIC THAN IS CONSIDERED NECESSARY BY THE OWNER'S REPRESENTATIVE.
- 6. THE CONTRACTOR SHALL CONFINE HIS/HER PERSONNEL, EQUIPMENT, OPERATIONS AND TRAVEL, TO THE AREA WITHIN THE DEFINED WORK LIMITS SHOWN ON THE
- 7. THE CONTRACTOR SHALL INFORM ALL CONSTRUCTION PERSONNEL AS TO THE PROPER ROUTES, SPEEDS, AND PROCEDURES, FOR TRANSPORTING EQUIPMENT AND MATERIALS TO THE CONSTRUCTION SITE. DELIVERIES SHALL BE AS SHOWN IN THE PLANS.

- 8. MEASURES SHALL BE ADOPTED TO PREVENT POTENTIAL POLLUTANTS FROM MEASURES SHALL BE ADOPTED TO PREVENT POTENTIAL POLLUTANTS FROM ENTERING ANY DRAINAGE SYSTEM OR WATERWAY. MATERIALS AND DEBRIS SHALL NOT BE STORED IN THE WORK AREA IN A MANNER THAT WOULD ALLOW THEM TO ENTER THE DRAINAGE SYSTEM AS A RESULT OF SPILLAGE, NATURAL RUNOFF OR FLODDING, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MIMEDIATELY NOTIFY THE SPONSOR SHOULD THERE BE A SPILLAGE OF MATERIAL WHICH MIGHT CONTAMINATE THE DRAINAGE SYSTEM. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND CLEAR UP SUCH SPILLAGE IN A MANNER ACCEPTABLE TO THE SPONSOR. MATERIAL SHALL BE SECURED SO THAT IT WILL NOT BE BLOWN BY THE WIND ONTO THE ADJACENT ROADWAYS.
- 9. SPECIAL ATTENTION TO DUST CONTROL WILL BE REQUIRED WHEN EARTHWORK OR HAULING OPERATIONS ARE IN PROGRESS OR WHEN WIND AND WEATHER CONDITIONS CAUSE EXCESSIVE BLOWING OF DUST. IN THIS REGARD, THE CONTRACTOR SHALL APPLY WATER TO THE AFFECTED SITES AS DIRECTED.
- 10. THE CONTRACTOR SHALL SUBMIT A SAFETY AND SECURITY PLAN TO THE HAS PROJECT MANAGER FOR REVIEW AND APPROVAL BY THE AIRPORT PRIOR TO CONSTRUCTION COMMENCING.
- 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SHEETING, SHORING AND BRACING IS DONE IN ACCORDANCE WITH CURRENT O.S.H.A REGULATIONS AND REQUIREMENTS. SHEETING, SHORING AND BRACING (EXCEPT TRENCH SAFETY), IS CONSIDERED TO BE AS AN INCIDENTAL PART OF THE WORK AND NO SEPARATE PAYMENT WILL BE ALLOWED.

UTILITY NOTES

- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED, A MINIMUM OF 72 HOURS IN ADVANCE OF ANY EXCAVATION OR BORINGS, TO HAVE THEIR UTILITIES LOCATED AND MARKED IN THE FIELD.
 - THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL (811) AND THE FOLLOWING LOCAL UTILITY OWNERS (LIST NOT INCLUSIVE OF ALL POTENTIAL UTILITY OWNERS) TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS IN THE VICINITY OF THE PROPOSED WORK:

CONTACT PERSON OPERATIONS PHONE NUMBER HOUSTON AIRPORT SYSTEM CENTERPOINT ENERGY SYSTEM UTILITY COORDINATION 713-207-1111

- ALL UNDERGROUND UTILITIES SHALL THEN BE LOCATED BY THE CONTRACTOR TO VERIFY LOCATION AND ELEVATION PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- C. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNER IF A UTILITY INSPECTOR MUST BE ON SITE WHEN LOCATING OR EXCAVATING
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING UP HIS/HER OWN WATER SOURCES WITH THE CITY. ALL CONSTRUCTION WATER WILL BE METERED BY THE CITY—OWNED METERS AND ONLY THOSE METERS. THE CONTRACTOR WILL RESPONSIBLE FOR PAYING ALL RELATED FEES TO THE CITY.
- 3. THE CONTRACTOR SHALL TAKE ALL STEPS TO PROTECT ALL COMMERCIAL AND AIRPORT UTILITIES DURING CONSTRUCTION IN ORDER TO ENSURE CONTINUOUS OPERATION WHEN NEEDED. THE CONTRACTOR SHALL, AT HIS/HER OWN EXPENSE, MAINTAIN IN PROPER WORKING ORDER AND WITHOUT INTERRUPTION OF SERVICE ALL EXISTING UTILITIES AND SERVICES WHICH MAY BE ENCOUNTERED IN THE WORK. WITH THE CONSENT OF THE OWNER'S REPRESENTATIVE, ENGINEER, AND/OR UTILITY OWNER, AS APPROPRIATE, SUCH SERVICE CONNECTIONS MAY BE TEMPORARILY INTERRUPTED TO PERMIT THE CONTRACTOR TO REMOVE DESIGNATED LINES OR TO MAKE TEMPORARY CHANGES IN THE LOCATIONS OF SERVICES. THE COST OF MAKING CHANGES SHALL BE AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.
- 4. ALL DAMAGED UTILITIES SHALL BE REPAIRED EXPEDITIOUSLY AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSPECTIONS, AS NECESSARY, OF ANY UTILITY WORK BY THE UTILITY OWNER THROUGHOUT THE PROJECT. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS OF THE PROJECT.





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JLV PROJECT MGR: EW CHECK BY: MS SCALE:

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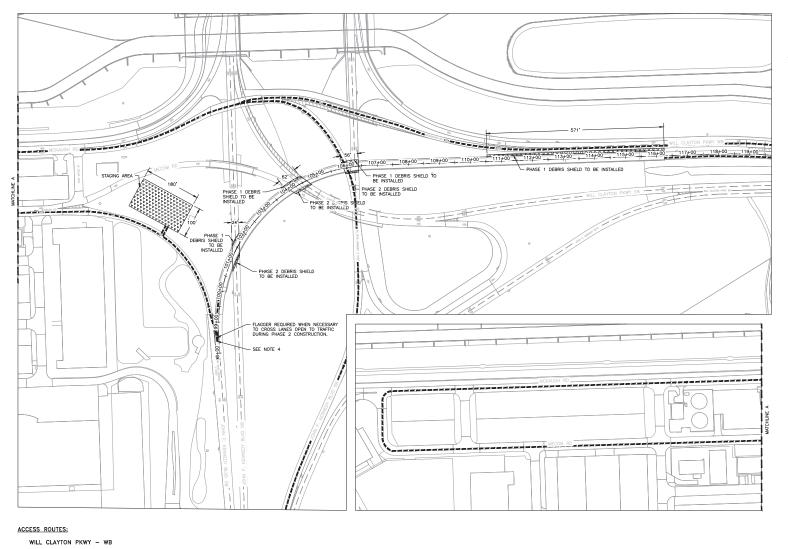


DIRECTOR HOUSTON AIRPORT

100066296

C.LP. NO.

H.A.S. NO.



JOHN F. KENNEDY BLVD. - NB TO MCKAUGH RD. TO MECOM RD.

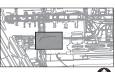
JOHN F. KENNEDY BLVD. NB TO WILL CLAYTON PKWY - EB TO WILL CLAYTON PKWY - WB

STAGING AREA

DEBRIS SHIELDS

----ACCESS ROUTE

- 1. ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT
 SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 3. DEBRIS SHIELDS SHALL BE INSTALLED BY THE CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. THE DEBRIS SHIELD SHALL EXTEND BEYOND THE EDGE
 OF PAVEMENT LIMITS OF THE
 ROADWAY BELOW FOR EXTENSIVE SAFFTY MEASURES.
- CONTRACTOR MUST BACK ALL VEHICLES ONTO BRIDGE WHEN ACCESSING FROM STAGING AREA. VEHICLE TURNING MOVEMENTS THAT UNNECESSARILY STOP PUBLIC TRAFFIC WILL NOT BE ALLOWED.
- CONTRACTOR SHALL PROVIDE FLAG PERSON AS NEEDED FOR CONSTRUCTION VEHICLES TO ACCESS BRIDGE FOR JFK BLVD AND MECOM RD.
- 6. INSTALL DEBRIS SHIELDS IN INSTALL DEBRIS SHIELDS IN
 LOCATIONS AS SHOWN ON THE
 PLANS, PROVIDE DUST AND
 PARTICULATE CONTROLS DURING
 DEMOLITION, OR OTHER MEASURES
 AS NECESSARY TO PREVENT DEMOLITION OR CONSTRUCTION
 DEBRIS OR TOOLS OR MATERIALS
 FROM FALLING ONTO SURFACE OF ROADWAYS LOCATED BENEATH OR ADJACENT TO THE BRIDGE.
- 7. CONTRACTOR SHALL ENGAGE A QUALIFIED AND COMPETENT FIRM TO DESIGN, INSTALL, MAINTAIN AND REMOVE THE DEBRIS SHIELDS. PLANS SHALL BE STAMPED AND SEALED BY A CURRENTLY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, AND SUBMITTED FOR REVIEW
- 8. DEBRIS SHIELDS SHALL NOT EXTEND BELOW THE LOWEST EXISTING GIRDER OR REDUCE EXISTING ROAD CLEARANCES UNDER BRIDGE. MATERIAL, MOUNTING SUPPORTS, ETC. SHALL BE AT THE CONTRACTOR'S DESIGN ENGINEER'S DISCRETION, AND
 MUST BE REMOVED FULLY AT THE
 END OF THE PROJECT.
- 9 THE MINIMUM LIMITS OF DERRIS SHIELDS SHALL BE AS SHOWN
 ON PLANS. IF ADDITIONAL LENGTH
 AND WIDTH OF DEBRIS SHIELD IS
 NECESSARY TO MEET NOTE 6 PERFORMANCE REQUIREMENT, IT SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 10. SUBMIT TRAFFIC CONTROL PLANS FOR INSTALLATION OF DEBRIS SHIELDS.







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ON PKWY / JFK FLYOVER E RECONSTRUCTION / AND ACCESS PLAN CLAYTON F BRIDGE REC SAFETY ANI

PROJECT MGR: JLV EW CHECK BY: MS SCALE:

06/26/2020

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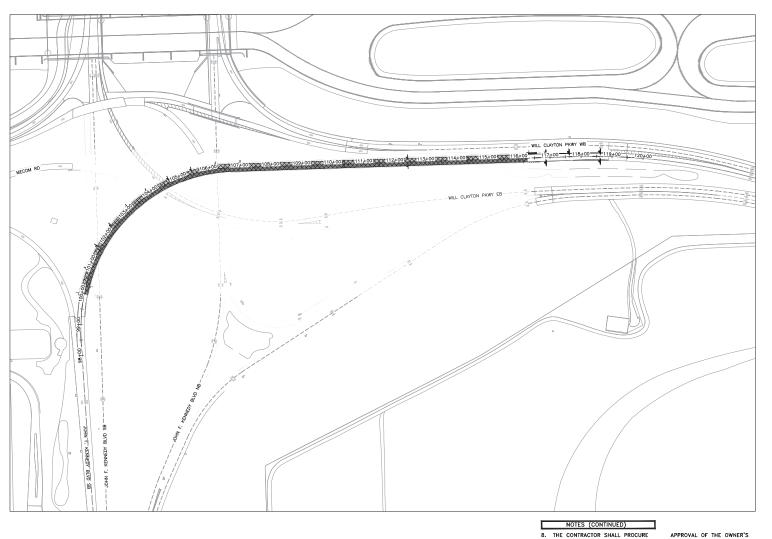


PROJECT NO. 100066296

C.LP. NO.

H.A.S. NO.

G-005



- 8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY ITEMS AND VERIFY SUFFICIENT THEMS AND VERIFY SUFFICIENT
 QUANTITIES TO SETUP THE PROPER
 TRAFFIC CONTROL IN ACCORDANCE
 WITH THE PLANS.
- 9. WORK IN PHASE 1 WILL BE
 PERFORMED DURING THE DAYTIME.
 THE CONTRACTOR HAS THE ABILITY
 TO PERFORM THIS PHASE OF WORK
 DURING THE NIGHT AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 10. WORK IN PHASE 2 WILL BE PERFORMED DURING THE DAYTIME. THE CONTRACTOR HAS THE ABILITY TO PERFORM THIS PHASE OF WORK DURING THE NIGHT AT THE

REPRESENTATIVE.

REPRESENTATIVE.

WORK IN PHASE 3 WILL BE PERFORMED DURING THE NIGHTIME ONLY. BRIDGE CLOURE IS REQUIRED FOR PHASE WORK. AND PHASE SWILL BE DURING THE SAME THE PERFORMEN OF THE SAME THE PERFOR PHASE A WILL STRICTLY BE DATTHE WORK. AND PHASE 3 WILL STRICTLY BE NIGHTIME WORK. NEITHER PHASE CAN BE PERFORMED SIMULTANEOUSLY. THE TRAFFIC CONTROL PLAN FOR PHASE 3 MUST BE RESTORED TO PHASE 1 TRAFFIC CONTROL PLAN BEFORE THE CONTROL PLAN REFORE THE OPENING UP TO TRAFFIC ON THE BRIDGE.

LEGEND

WORK ZONE - PHASE 1

WORK ZONE - PHASE 2

WORK ZONE - PHASE 3

NOTES

- THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASES OF WORK, DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE RESPONSIBILITY TO BE
 AWARE/KNOWLEDGEABLE OF AND
 IMPLEMENT THE GUIDELINES
 ESTABLISHED IN THE SAFETY AND
 SECURITY NOTES AND ELSEWHERE
 THROUGHOUT THE PLANS AND
 PROJECT MANUAL.
- 2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S REPRESENTATIVE AND AIRPORT OPERATIONS IF ANY PROBLEMS OR CHANGES ARISE DURING CONSTRUCTION SEQUENCING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S
 REPRESENTATIVE REQUESTING
 ACTIONS TO RESOLVE SAID
 PROBLEMS PRIOR TO CONTINUING THE WORK.
- 3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE DESIGNATED FLAGMAN AT ANY LOCATION WHERE CONSTRUCTION TRAFFIC CAUSES AN TEMPORARY INTERRUPTION TO THE FLOW OF TRAFFIC IN ORDER TO GUIDE CONSTRUCTION EQUIPMENT TO THE PROJECT WORK AREA.
- 4. THE CONTRACTOR SHALL DAILY BASIS AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 5 THE CONTRACTOR SHALL BE THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND TAKE APPROPRIATE MEASURES AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.
- FO THE COMPLETION OF ANY PHASE OF WORK AND SUBSEQUENT USAGE BY THE OWNER DOES NOT DEFINE FINAL ACCEPTANCE OF THE WORK IN THAT PHASE. WHEN ALL PHASES ARE COMPLETE, A FINAL INSPECTION OF THE ENTIRE PROJECT HAS OCCURRED ALL ASSOCIATED PUNCH LIST ITEMS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE AIRPORT MANAGEMENT AND OWNER'S REPRESENTATIVE, THEN THE ENTIRE PROJECT WILL BE ACCEPTED.
- 7. THE INSTALLATION OF THE TRAFFIC CONTROLS, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK
 IS TO COMMENCE DURING ALL PHASES.





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NO. DESCRIPTION DATE BY

CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION PHASING - OVERALL

THE CUNINGUIST SHALL
CONTINUOUSLY CLEAN DURING EACH
PHASE OF THE PROJECT AND SHALL
PERFORM FINAL CLEAN UP WORK
PRIOR TO A FINAL INSPECTION. THE
CONTRACTOR SHALL SWEEP ON A

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS

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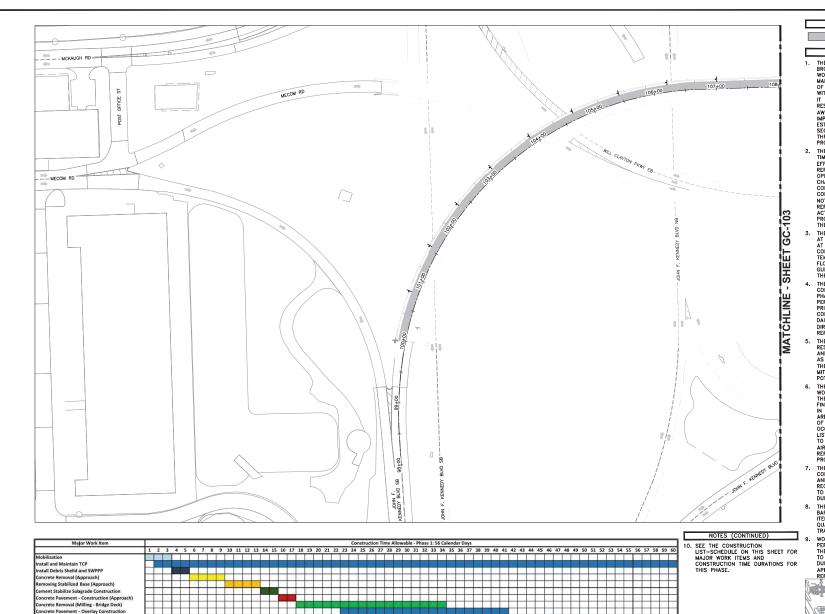
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SCALE:

DIRECTOR HOUSTON AIRPORT SH PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.

GC-101



WORK ZONE - PHASE 1

1. THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASING IS WORK. DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND PROJECT MANUAL.

THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S REPRESENTATIVE AND AIRPORT OPERATIONS IF ANY PROBLEMS OR CHANGES ARISE DURING CONSTRUCTION SEQUENCING THE CONTRACTION SEQUENCING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE REQUESTING REPRESENTATIVE REQUESTING ACTIONS TO RESOLVE SAID PROBLEMS PRIOR TO CONTINUING THE WORK.

THE WORK.

THE CONTRACTOR SHALL PROVIDE
AT LEAST ONE DESIGNATED FLAGMAN
AT ANY LOCATION WHERE
CONSTRUCTION TRAFFIC CAUSES AN
TEMPORARY INTERRUPTION TO THE
FLOW OF TRAFFIC IN ORDER TO
GUIDE CONSTRUCTION EQUIPMENT TO
THE POPILICY WORK AGE. THE PROJECT WORK AREA.

THE CONTRACTOR SHALL
CONTINUOUSLY CLEAN DURING EACH
PHASE OF THE PROJECT AND SHALL
PERFORM FINAL CLEAN UP WORK PRIOR TO A FINAL INSPECTION. THE CONTRACTOR SHALL SWEEP ON A DAILY BASIS AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL BE
RESPONSIBLE FOR DUST CONTROL
AND TAKE APPROPRIATE MEASURES
AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.

POTENTIAL DUST ISSUES.

THE COMPLETION OF AMY PHASE OF WORK AND SUBSEQUENT USAGE BY THE OWNER DOES NOT DEFINE FINAL ACCEPTANCE OF THE WORK IN THAT PHASE. WHEN ALL PHASES ARE COMPLETE, A FINAL INSPECTION OF THE ENTIRE PROJECT HAS OCCURRED ALL ASSOCIATED PUNCH LIST ITEMS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE APPORT HANDECHENT AND COMPLETE OF THE SATISFACTION OF THE APPORT HANDECHENT AND CONMERCES. AIRPORT MANAGEMENT AND OWNER'S REPRESENTATIVE, THEN THE ENTIRE PROJECT WILL BE ACCEPTED.

7. THE INSTALLATION OF THE TRAFFIC THE INSTALLATION OF THE TRAFFIC CONTROL PLAN, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK IS TO COMMENCE DURING ALL PHASES.

THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY ITEMS AND VERIFY SUFFICIENT QUANTITIES TO SETUP THE PROPER TRAFFIC CONTROL PLANS.

WORK IN PHASE 1 WILL BE WORK IN PHASE 1 WILL BY PERFORMED DURING THE DAYTIME. THE CONTRACTOR HAS THE ABILITY TO PERFORM THIS PHASE OF WORK DURING THE NIGHT AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.



HOLERON AIRPORT SYSTEM

ATKINS

NO. DESCRIPTION DATE BY

CEL OF BOCKERS

OVE L CLAYTON PKWY / JFK FLYOV BRIDGE RECONSTRUCTION PHASING - PHASE 1

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS SCALE:

06/26/2020

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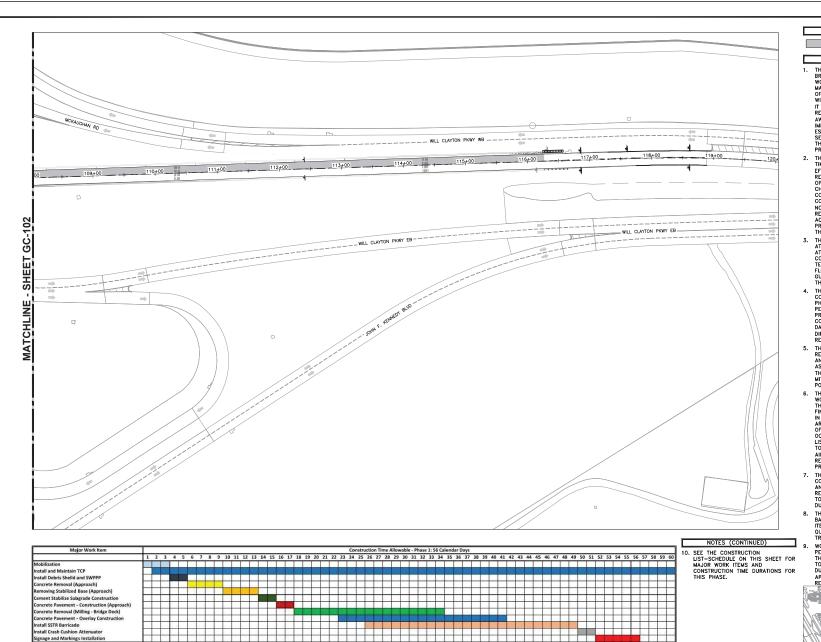
PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.

GC-102

nstall SSTR Barricade Install Crash Cushion Attenuato

Signage and Markings Installation



WORK ZONE - PHASE 1

1. THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASING IS WORK. DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND

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THE WORK.

3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE DESIGNATED FLAGMAN AT ANY LOCATION WHERE CONSTRUCTION TRAFFIC CAUSES AN TEMPORARY INTERRUPTION TO THE FLOW OF TRAFFIC IN GROER TO GUIDE CONSTRUCTION EQUIPMENT TO THE PROJECT WORK AREA.

PRIOR TO A FINAL INSPECTION. THE CONTRACTOR SHALL SWEEP ON A DAILY BASIS AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

POTENTIAL DUST ISSUES.

5. THE COMPLETION OF ANY PHASE OF WORK AND SUBSEQUENT USAGE BY THE OWNER DOES NOT DEFINE FINAL ACCEPTANCE OF THE WORK IN THAT PHASE. WHEN ALL PHASES ARE COMPLETE, A FINAL INSPECTION OF THE WORK IN THAT SUBJECTION OF THE WORK IN THAT SUBJECTION OF THE WORK IN THAT SUBJECTION OF THE WORK IN THE TO THE SATISFACTION OF THE AIRPORT MANAGEMENT AND OWNER'S REPRESENTATIVE, THEN THE ENTIRE PROJECT WILL BE ACCEPTED.

7. THE INSTALLATION OF THE TRAFFIC THE INSTALLATION OF THE TRAFFIC CONTROL PLAN, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK IS TO COMMENCE

WORK IN PHASE 1 WILL BE





HOLERON AIRPORT SYSTEM

ATKINS

NO. DESCRIPTION DATE BY

CEL OF BOCKERS

CLAYTON PKWY / JFK FLYOVEI BRIDGE RECONSTRUCTION PHASING - PHASE 1

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DIRECTOR HOUSTON AIRPORT S

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PROJECT NO.

C.I.P. NO.

4. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN DURING EACH PHASE OF THE PROJECT AND SHALL PERFORM FINAL CLEAN UP WORK

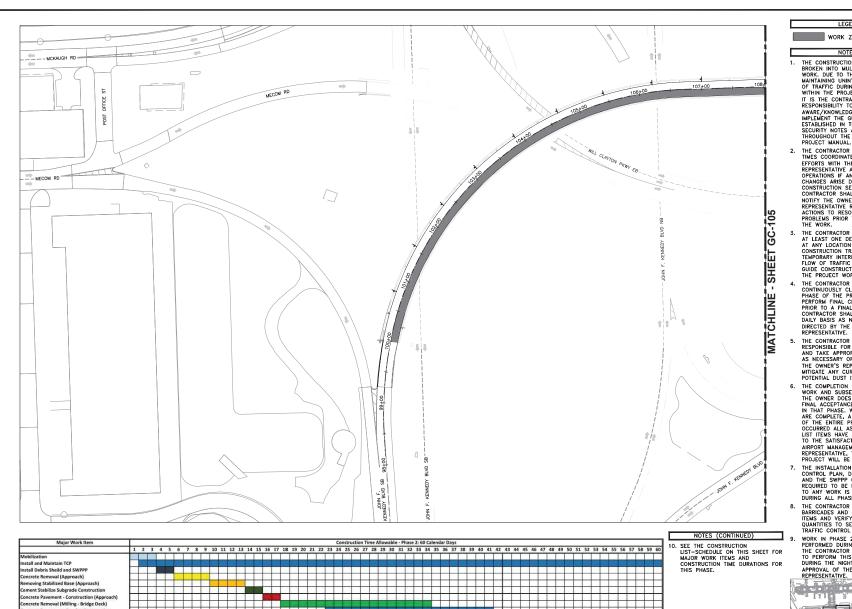
THE CONTRACTOR SHALL BE
RESPONSIBLE FOR DUST CONTROL
AND TAKE APPROPRIATE MEASURES
AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.

DURING ALL PHASES.

8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY ITEMS AND VERIFY SUFFICIENT QUANTITIES TO SETUP THE PROPER TRAFFIC CONTROL PLANS.

WORK IN PHASE 1 WILL BY PERFORMED DURING THE DAYTIME. THE CONTRACTOR HAS THE ABILITY TO PERFORM THIS PHASE OF WORK DURING THE NIGHT AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

H.A.S. NO. GC-103



WORK ZONE - PHASE 2

THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASES OF WORK. DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND

2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S REPRESENTATIVE AND AIRPORT OPERATIONS IF ANY PROBLEMS OR CHANGES ARES DURING CONSTRUCTION SCOUENCING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE PROBLEMS PRIOR TO CONTINUING ACTIONS TO RESOLVE SAID PROBLEMS PRIOR TO CONTINUING THE WORK. EFFORTS WITH THE OWNER'S

3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE DESIGNATED FLAGMAN AT ANY LOCATION WHERE CONSTRUCTION TRAFFIC CAUSES AN TEMPORARY INTERRUPTION TO THE FLOW OF TRAFFIC IN ORDER TO GUIDE CONSTRUCTION EQUIPMENT TO THE PROJECT WORK AREA.

THE PROJECT WORK AREA.

4. THE CONTRACTOR SHALL

CONTINUOUSLY CLEAN DURING EACH
PHASE OF THE PROJECT AND SHALL
PERFORM FINAL CLEAN UP WORK
PRIOR TO A FINAL INSECTION. THE
CONTRACTOR SHALL RESERVED AND
DIRECTED BY THE OWNER'S
REPRESENTATIVE.

THE CONTRACTOR SHALL IS

THE CONTRACTOR SHALL BE
RESPONSIBLE FOR DUST CONTROL
AND TAKE APPROPRIATE MEASURES
AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.

POTENTIAL DUST ISSUES.

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7. THE INSTALLATION OF THE TRAFFIC CONTROL PLAN, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK IS TO COMMENCE DURING ALL PHASES

8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY
ITEMS AND VERIFY SUFFICIENT
QUANTITIES TO SETUP THE PROPER
TRAFFIC CONTROL PLANS.

WORK IN PHASE 2 WILL BE WORK IN PHASE 2 WILL BE PERFORMED DURING THE DAYTIME. THE CONTRACTOR HAS THE ABILITY TO PERFORM THIS PHASE OF WORK DURING THE NIGHT AT THE





HOLERON AIRICRE SYSTEM

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NO. DESCRIPTION DATE BY

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L CLAYTON PKWY / JFK FLYOV BRIDGE RECONSTRUCTION PHASING - PHASE 2

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS

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PROJECT NO. 100066296

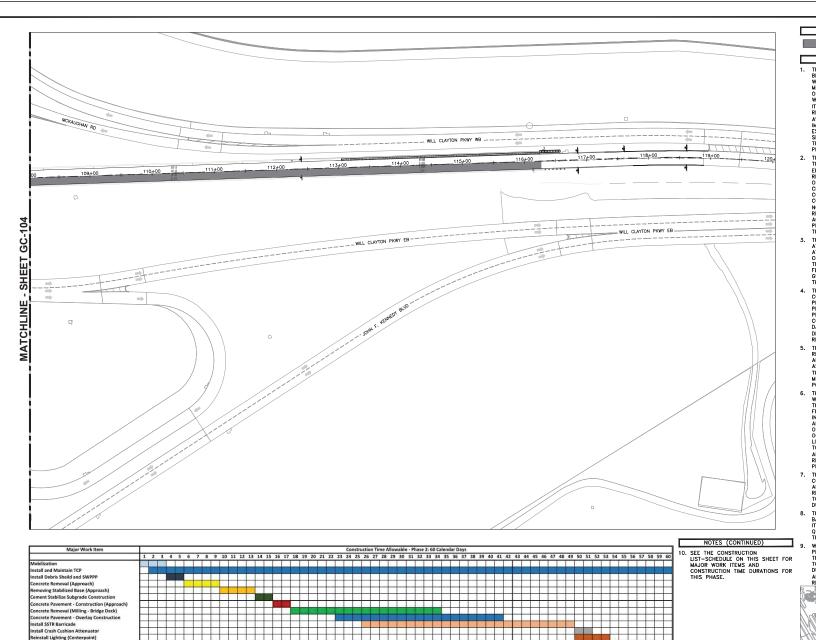
C.I.P. NO.

H.A.S. NO.

GC-104

stall SSTR Barricade stall Crash Cushion Attenuato

install Lighting (Centerpoint) nage and Markings Installation obilization



WORK ZONE - PHASE 2

THE CONSTRUCTION PHASING IS THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASES OF WORK. DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND PROJECT MANUAL.

2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S EFFORTS WITH THE OWNER'S
REPRESENTATIVE AND AIRPORT
OPERATIONS IF ANY PROBLEMS OR
CHANGES ARISE DURING
CONSTRUCTION SEQUENCING. THE
CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE REQUESTING ACTIONS TO RESOLVE SAID PROBLEMS PRIOR TO CONTINUING THE WORK.

3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE DESIGNATED FLAGMAN AT ANY LOCATION WHERE CONSTRUCTION TRAFFIC CAUSES AN TEMPORARY INTERRUPTION TO THE FLOW OF TRAFFIC IN ORDER TO GUIDE CONSTRUCTION EQUIPMENT TO THE PROJECT WORK AREA.

4. THE CONTRACTOR SHALL
CONTINUOUSLY CLEAN DURING EACH
PHASE OF THE PROJECT AND SHALL
PERFORM FINAL CLEAN UP WORK
PRIOR TO A FINAL INSPECTION. THE
CONTRACTOR SHALL
CONTRACTOR OF A SHALL
DATE OF THE CONTRACTOR OF AS
DIFFEREND BY THE CONTRACTOR
OF THE CONTRACTOR OF DIRECTED BY THE OWNER'S REPRESENTATIVE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND TAKE APPROPRIATE MEASURES AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.

6. THE COMPLETION OF ANY PHASE OF THE COMPLETION OF ANY PHASE OF WORK AND SUBSEQUENT USAGE BY THE OWNER POES NOT DEFINE FINAL ACCEPTANCE OF THE WORK IN THAT PHASE. WHEN ALL PHASES ARE COMPLETE, A FINAL INSPECTION OF THE ENTIRE PROJECT HAS COCURRED ALL ASSOCIATED PUNCH LIST ITEMS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE AIRPORT MANAGEMENT AND OWNER'S REPRESENTATIVE, THEN THE ENTIRE PROJECT WILL BE ACCEPTED.

7. THE INSTALLATION OF THE TRAFFIC CONTROL PLAN, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK IS TO COMMENCE DURING ALL PHASES

8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY
ITEMS AND VERIFY SUFFICIENT
QUANTITIES TO SETUP THE PROPER
TRAFFIC CONTROL PLANS.

WORK IN PHASE 2 WILL BE WORK IN PHASE 2 WILL BE PERFORMED DURING THE DAYTIME. THE CONTRACTOR HAS THE ABILITY TO PERFORM THIS PHASE OF WORK DURING THE NIGHT AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.





ATKINS

NO. DESCRIPTION DATE BY

CLAYTON PKWY / JFK FLYOVEI BRIDGE RECONSTRUCTION PHASING - PHASE 2

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS

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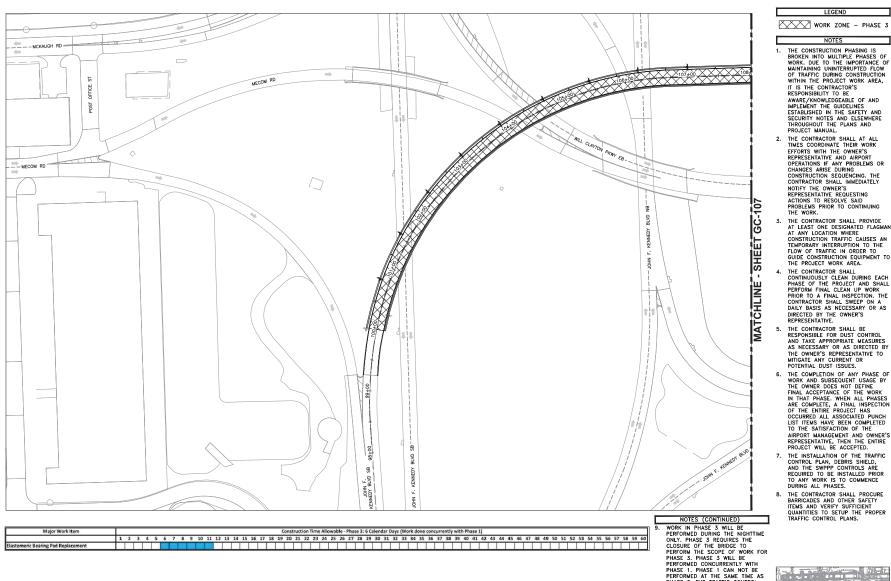


PROJECT NO. 100066296

C.L.P. NO. H.A.S. NO.

GC-105

nage and Markings Installation obilization



HOLERON AIRICRE SYSTEM

ATKINS

NO. DESCRIPTION DATE BY

OVER

L CLAYTON PKWY / JFK FLYOV BRIDGE RECONSTRUCTION PHASING - PHASE 3

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PROJECT MGR:

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JLV EW

KJV

MS 06/26/2020

THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASES OF WORK DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND PROJECT MANUAL.

2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S REPRESENTATIVE AND AIRPORT OPERATIONS IF ANY PROBLEMS OR CHANGES ARISE DURING CONSTRUCTION SEQUENCING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE REQUESTING ACTIONS TO RESOLVE SAID PROBLEMS PRIOR TO CONTINUING THE WORK. EFFORTS WITH THE OWNER'S

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4. THE CONTRACTOR SHALL
CONTINUOUSLY CLEAN DURING EACH
PHASE OF THE PROJECT AND SHALL
PERFORM FINAL CLEAN UP WORK
PRIOR TO A FINAL INSPECTION. THE
DURINGSTOR SHALLESESARY ON A
DIRECTED BY THE CONSERY OR AS
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POTENTIAL DUST ISSUES.

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8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY
ITEMS AND VERIFY SUFFICIENT
QUANTITIES TO SETUP THE PROPER
TRAFFIC CONTROL PLANS.



PHASE 3. THE TRAFFIC CONTROL PLAN FOR PHASE 3 MUST BE RESTORED TO PHASE 1 TRAFFIC

CONTROL PLAN BEFORE THE OPENING UP TO TRAFFIC ON THE

10. SEE THE CONSTRUCTION LIST-SCHEDULE ON THIS SHEET FOR MAJOR WORK ITEMS AND CONSTRUCTION TIME DURATIONS FOR THIS PHASE.

BRIDGE.

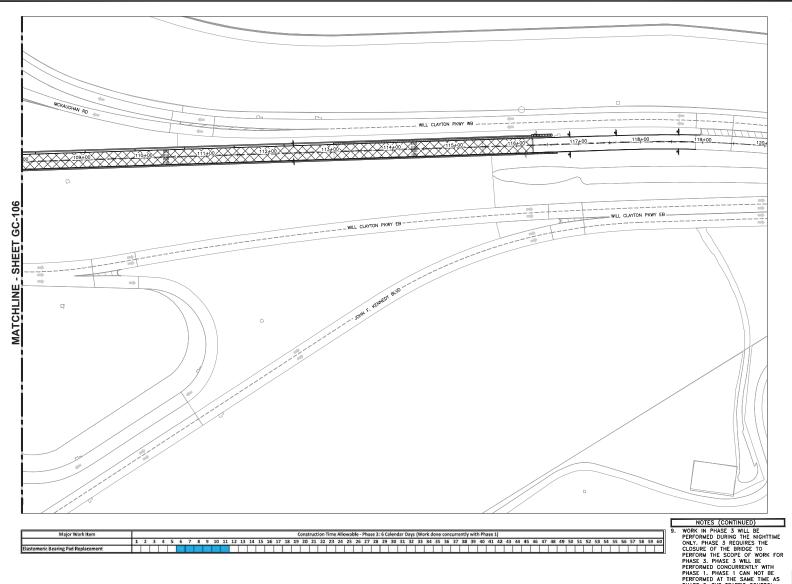
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100066296

GC-106



WORK ZONE - PHASE 3

- THE CONSTRUCTION PHASING IS THE CONSTRUCTION PHASING IS BROKEN INTO MULTIPLE PHASES OF WORK. DUE TO THE IMPORTANCE OF MAINTAINING UNINTERRUPTED FLOW OF TRAFFIC DURING CONSTRUCTION WITHIN THE PROJECT WORK AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE/KNOWLEDGEABLE OF AND AWARE/KNOWLEDGEABLE OF AND IMPLEMENT THE GUIDELINES ESTABLISHED IN THE SAFETY AND SECURITY NOTES AND ELSEWHERE THROUGHOUT THE PLANS AND PROJECT MANUAL.
- 2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THEIR WORK EFFORTS WITH THE OWNER'S REPRESENTATIVE AND AIRPORT OPERATIONS IF ANY PROBLEMS OR CHANGES ARISE DURING CONSTRUCTION SEQUENCING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE REQUESTING ACTIONS TO RESOLVE SAID PROBLEMS PRIOR TO CONTINUING THE WORK. EFFORTS WITH THE OWNER'S
- 3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE DESIGNATED FLAGMAN AT ANY LOCATION WHERE CONSTRUCTION TRAFFIC CAUSES AN TEMPORARY INTERRUPTION TO THE FLOW OF TRAFFIC IN ORDER TO GUIDE CONSTRUCTION EQUIPMENT TO THE PROJECT WORK AREA.
- 4. THE CONTRACTOR SHALL
 CONTINUOUSLY CLEAN DURING EACH
 PHASE OF THE PROJECT AND SHALL
 PERFORM FINAL CLEAN UP WORK
 PRIOR TO A FINAL INSPECION. THE
 COMMON SHALL
 CO DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND TAKE APPROPRIATE MEASURES AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO MITIGATE ANY CURRENT OR POTENTIAL DUST ISSUES.
- 6. THE COMPLETION OF ANY PHASE OF THE COMPLETION OF ANY PHASE OF WORK AND SUBSEQUENT USAGE BY THE OWNER POES NOT DEFINE FINAL ACCEPTANCE OF THE WORK IN THAT PHASE. WHEN ALL PHASES ARE COMPLETE, A FINAL INSPECTION OF THE ENTIRE PROJECT HAS COCURRED ALL ASSOCIATED PUNCH LIST ITEMS HAVE BEEN COMPLETED TO THE STATSACTION OF THE AIRPORT MANAGEMENT AND OWNER'S REPRESENTATIVE, THEN THE ENTIRE PROJECT WILL BE ACCEPTED.
- 7. THE INSTALLATION OF THE TRAFFIC CONTROL PLAN, DEBRIS SHIELD, AND THE SWPPP CONTROLS ARE REQUIRED TO BE INSTALLED PRIOR TO ANY WORK IS TO COMMENCE DURING ALL PHASES
- 8. THE CONTRACTOR SHALL PROCURE BARRICADES AND OTHER SAFETY
 ITEMS AND VERIFY SUFFICIENT
 QUANTITIES TO SETUP THE PROPER
 TRAFFIC CONTROL PLANS.





ATKINS

NO. DESCRIPTION DATE BY

OVER

L CLAYTON PKWY / JFK FLYOV BRIDGE RECONSTRUCTION PHASING - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS

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DIRECTOR HOUSTON AIRPORT SH

PROJECT NO. 100066296

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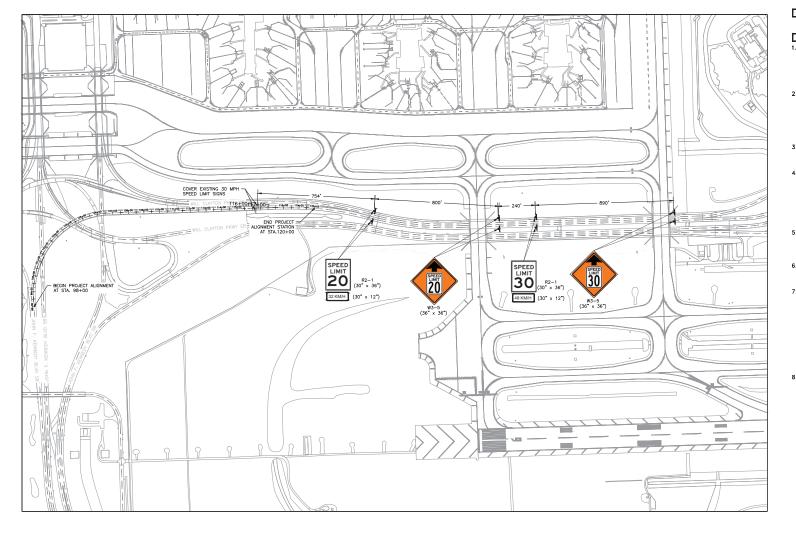
H.A.S. NO.

GC-107

OPENING UP TO TRAFFIC ON THE BRIDGE. 10. SEE THE CONSTRUCTION
LIST-SCHEDULE ON THIS SHEET FOR MAJOR WORK ITEMS AND CONSTRUCTION TIME DURATIONS FOR THIS PHASE.

PHASE 3. THE TRAFFIC CONTROL PLAN FOR PHASE 3 MUST BE RESTORED TO PHASE 1 TRAFFIC

CONTROL PLAN BEFORE THE



LEGEND TRAFFIC CONTROL SIGN

NOTES

 ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT
SPECIFICATIONS, AS WELL AS THE
MANUAL UNIFORM OF TRAFFIC CONTROL DEVICES (MUTCD).

2. INSTALL AND OPERATE TRAFFIC CONTROLS TO DIRECT AND MAINTAIN ORDERLY FLOW OF TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.

3. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.

4. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS)
DURING CONSTRUCTION.

5. CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS.

FLAGGERS(S) IS/ARE REQUIRED TO DIRECT TRAFFIC WHEN THE LANES ARE BLOCKED.

7. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS"
DURING THE CONSTRUCTION THAN
WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, HE/SHE SHALL BE RESPONSIBLE FOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING AN ALTERNATE SET OF PLANS TO THE HAS TRAFFIC ENGINEER FOR APPROVAL 14 WORKING DAYS
PRIOR TO IMPLEMENTATION.

8. APPROVED COPIES OF TRAFFIC CONTROL PLANS AND MOBILITY PERMITS SHALL BE MADE AVAILABLE FOR INSPECTION AT THE JOB SITE AT ALL TIMES. CONTRACTORS MUST SECURE MOBILITY PERMITS FROM THE CITY'S TRAFFIC MANAGEMENT AND MAINTENANCE BRANCH BEFORE MAINTENANCE BRANCH BEFORE
CLOSING A LANE/SIDEWALK. THE
REQUEST MUST BE MADE AT
LEAST 10 DAYS IN ADVANCE OF
THE CLOSURE. NOTE THAT
WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. CALL 832-395-3020 FOR AN APPLICATION OR LOG ON TO WWW.GIMS.HOUSTONTX.GOV.



ATKINS

NO. DESCRIPTION DATE BY

CITY OF BOCKESS

GEORGE BUSH INTERCONTINENTAL AIRPORT (BAH)
WILL CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
TRAFFIC CONTROL PLAN TEMPORARY SPEED REDUCTION

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

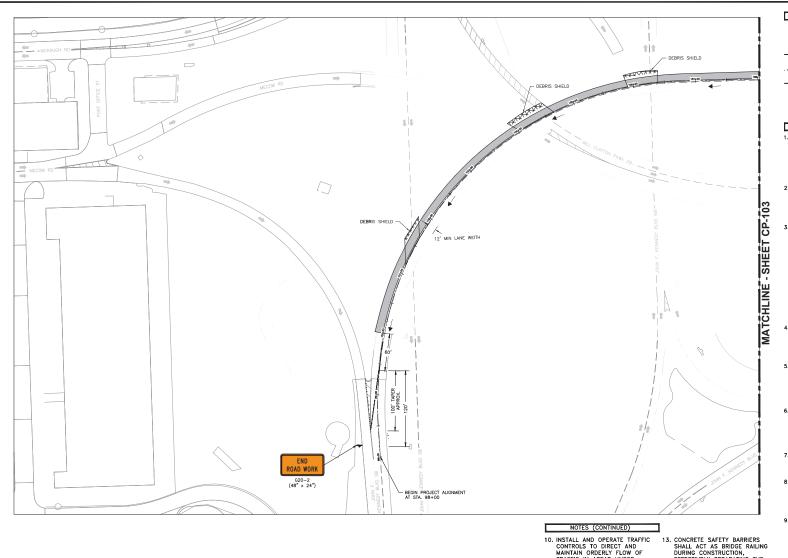
06/26/2020



100066296

C.L.P. NO.

H.A.S. NO.



- TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR
 WHERE ROADS CROSS UNDER
 THE BRIDGE. SEE SHEET G-005
 FOR MORE INFORMATION.
- DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

WORK ZONE-PHASE 1

TRAFFIC CONTROL SIGN

CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-PAVEMENT MARKING

DEBRIS SHIELD

TRAFFIC FLOW

NOTES

- 1. AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC
- CONTROL DEVICES (MUTCD). CONTROL DEVICES (MOTED).

 NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC
 CONTROL DEVICES HAVE BEEN
 INSTALLED AS PER PLANS ON THE
 PROJECT SO THAT THE
 DEPARTMENT'S RESPONSIBLE PERSON
 ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
 CONTROL DEVICES. COMMENCEMENT
 OF WORK WILL NOT BE AUTHORIZED
 NOR ALLOWED UNTIL THE HAS
 PROJECT ENGINEER GIVES THE
 APPROVAL TO PROCEED WITH THE
- WORK.

 CONTRACTOR SHALL HAVE A
 SUFFICIENT AMOUNT OF TRAFFIC
 CONTROL DEVICES IN A CCEPTABLE
 CONDITION TO REPLACE ANY
 DAMAGED TRAFFIC CONTROL DEVICE
 WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND
 BARRICADES AS NECESSARY TO
 ADDRESS FIELD CONSTRUCTIBILITY
 AND VISIBILITY. THESE ADDITIONAL
 SIGNS WILL BE CONSIDERED
 SUBSIDIARY TO ITEM 502 IN THE
 TXDOT SPECIFICATIONS.
- COORDINATE THE TRAFFIC CONTROL
 PLAN AND THE VARIOUS SEQUENCES
 OF CONSTRUCTION WITH ADJACENT
 CONSTRUCTION PROJECTS IF
 APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF
- REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE CHANGE
- 9. PHASE 1 INCLUDES THE RIGHT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE LEFT LANE OF THE PROJECT AREA.







ATKINS

NO. DESCRIPTION DATE BY



MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 1 WILL

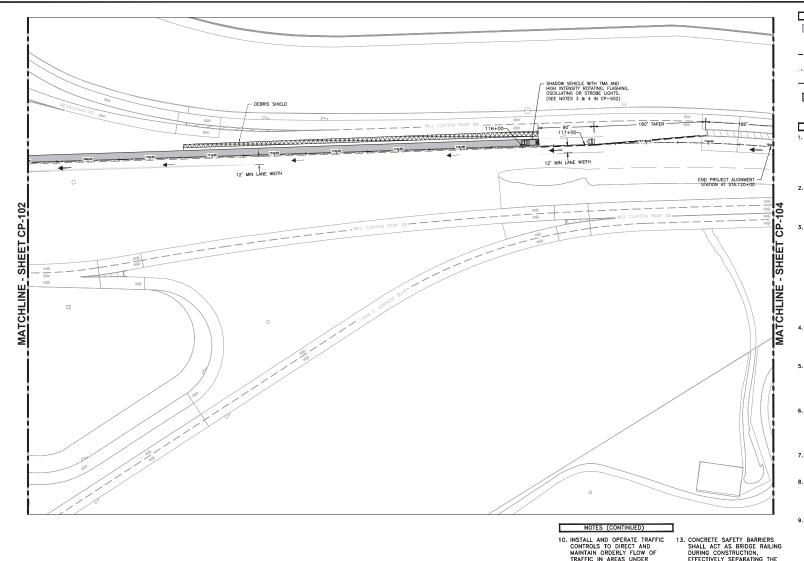
PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS 06/26/2020



DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



- TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR
 WHERE ROADS CROSS UNDER
 THE BRIDGE. SEE SHEET G-005
 FOR MORE INFORMATION.
- DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

WORK ZONE-PHASE 1

TRAFFIC CONTROL SIGN

CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-PAVEMENT MARKING

DEBRIS SHIELD TRAFFIC FLOW

NOTES

- 1. AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTROL DEVICES (MOTED).

 NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC
 CONTROL DEVICES HAVE BEEN
 INSTALLED AS PER PLANS ON THE
 PROJECT SO THAT THE
 DEPARTMENT'S RESPONSIBLE PERSON
 ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
 CONTROL DEVICES. COMMENCEMENT
 OF WORK WILL NOT BE AUTHORIZED
 NOR ALLOWED UNTIL THE HAS
 PROJECT ENGINEER GIVES THE
 APPROVAL TO PROCEED WITH THE
- WORK.

 CONTRACTOR SHALL HAVE A
 SUFFICIENT AMOUNT OF TRAFFIC
 CONTROL DEVICES IN A CCEPTABLE
 CONDITION TO REPLACE ANY
 DAMAGED TRAFFIC CONTROL DEVICE
 WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND
 BARRICADES AS NECESSARY TO
 ADDRESS FIELD CONSTRUCTIBILITY
 AND VISIBILITY. THESE ADDITIONAL
 SIGNS WILL BE CONSIDERED
 SUBSIDIARY TO ITEM 502 IN THE
 TXDOT SPECIFICATIONS.
- COORDINATE THE TRAFFIC CONTROL
 PLAN AND THE VARIOUS SEQUENCES
 OF CONSTRUCTION WITH ADJACENT
 CONSTRUCTION PROJECTS IF
 APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC
- CONTROL PLAN. 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE CHANGE
- 9. PHASE 1 INCLUDES THE RIGHT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE LEFT LANE OF THE PROJECT AREA.







ATKINS

NO. DESCRIPTION DATE BY



MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 1

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS

06/26/2020

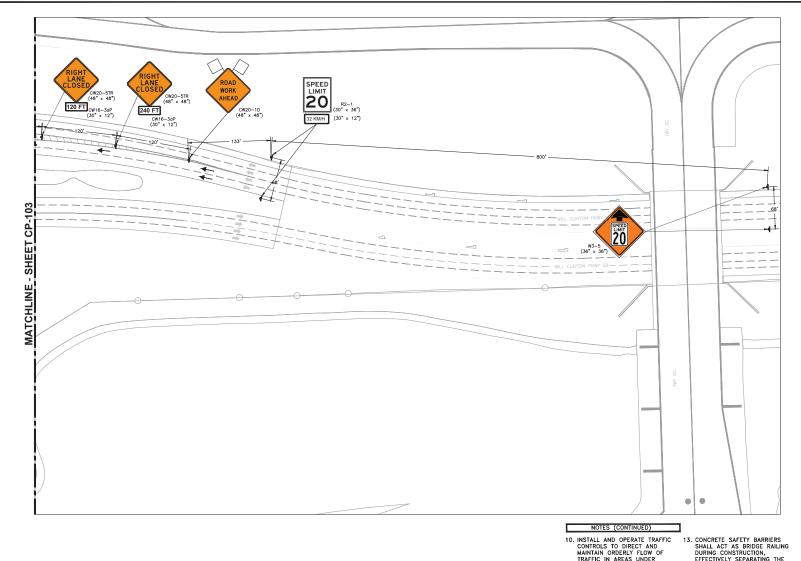
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DIRECTOR HOUSTON AIRPORT SH

PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



- TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR
 WHERE ROADS CROSS UNDER
 THE BRIDGE. SEE SHEET G-005
 FOR MORE INFORMATION.
- DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

WORK ZONE-PHASE 1

TRAFFIC CONTROL SIGN

CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-PAVEMENT MARKING XXXXXXX DEBRIS SHIELD

TRAFFIC FLOW

NOTES

- 1. AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTROL DEVICES (MOTCD).

 NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC
 CONTROL DEVICES HAVE BEEN
 INSTALLED AS PER PLANS ON THE
 PROJECT SO THAT THE
 DEPARTMENT'S RESPONSIBLE PERSON
 ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
 CONTROL DEVICES. COMMENCEMENT
 OF WORK WILL NOT BE AUTHORIZED
 NOR ALLOWED UNTIL THE HAS
 PROJECT ENGINEER GIVES THE
 APPROVAL TO PROCEED WITH THE
- WORK.

 4. CONTRACTOR SHALL HAVE A
 SUFFICIENT AMOUNT OF TRAFFIC
 CONTROL DEVICES IN ACCEPTABLE
 CONDITION TO REPLACE ANY
 DAMAGED TRAFFIC CONTROL DEVICE
 WITHIN 24 HOURS OF NOTIFICATION.
- 5. PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY AND VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502 IN THE TXDOT SPECIFICATIONS.
- COORDINATE THE TRAFFIC CONTROL
 PLAN AND THE VARIOUS SEQUENCES
 OF CONSTRUCTION WITH ADJACENT
 CONSTRUCTION PROJECTS IF
 APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC
- CONTROL PLAN. 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE CHANGE
- 9. PHASE 1 INCLUDES THE RIGHT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE LEFT LANE OF THE PROJECT AREA.





ATKINS

NO. DESCRIPTION DATE BY

MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 1

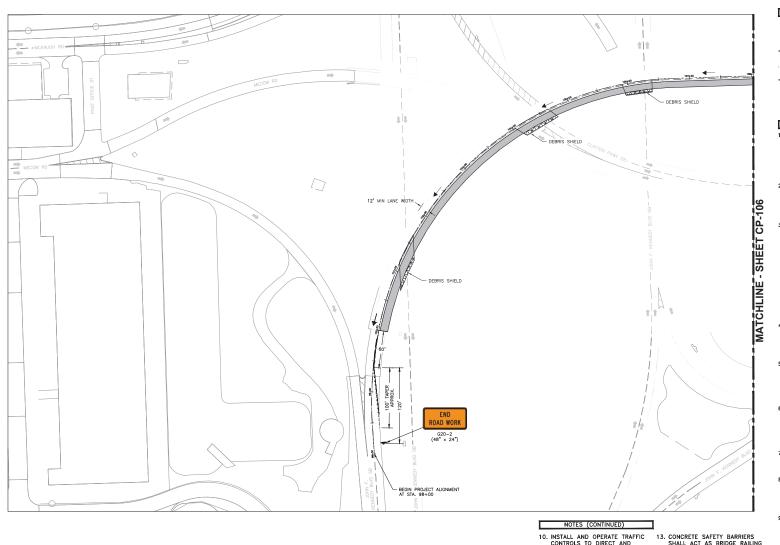
PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS

06/26/2020



DIRECTOR HOUSTON AIRPORT S PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



- 10. INSTALL AND OPERATE TRAFFIC CONTROLS TO DIRECT AND MAINTAIN ORDERLY FLOW OF TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005 FOR MORE INFORMATION.
- 13. CONCRETE SAFETY BARRIERS SHALL ACT AS BRIDGE RAILING DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

WORK ZONE-PHASE 2

TRAFFIC CONTROL SIGN

_CONCRETE SAFETY
BARRIERS

·····TRAFFIC BARRELS

-PAVEMENT MARKING

DEBRIS SHIELD

TRAFFIC FLOW

NOTES

- 1. AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL
 DEVICES SHALL BE IN ACCEPTABLE
 CONDITION AND MAINTAINED
 THROUGHOUT THE DURATION OF THE
 PROJECT, AS PER GUIDELINES FOR
 TEMPORARY TRAFFIC CONTROL
 DEVICES AND THE PROJECT AS T DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC IN WRITING ONCE ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE PROJECT SO THAT THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE CONTRACTOR'S RESPONSIBLE PERSON CAN CONDUCT A NIGHT INSPECTION OF THE SAID TOP AND TRAFFICIAL OF WORK WILL NOT BE AUTHORIZED FOR WORK WILL NOT BE AUTHORIZED FOR DEPARTMENT OF THE SAID APPROVAL TO PROCEED WITH THE WORK.
- WORK.

 CONTRACTOR SHALL HAVE A
 SUFFICIENT AMOUNT OF TRAFFIC
 CONTROL DEVICES IN A CCEPTABLE
 CONDITION TO REPLACE ANY
 DAMAGED TRAFFIC CONTROL DEVICE
 WITHIN 24 HOURS OF NOTIFICATION.
- 5. PROVIDE ADDITIONAL SIGNS AND PROVIDE ADDITIONAL SIGNS AND
 BARRICADES AS NECESSARY TO
 ADDRESS FIELD CONSTRUCTIBILITY
 AND VISIBILITY. THESE ADDITIONAL
 SIGNS WILL BE CONSIDERED
 SUBSIDIARY TO ITEM 502 IN THE TYDOT SPECIFICATIONS
- IXDUI SPECIFICATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER
 WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE
 CHANGE CHANGE.
- 9. PHASE 2 INCLUDES THE LEFT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE RIGHT LANE OF THE PROJECT AREA.







ATKINS

NO. DESCRIPTION DATE BY

CITY OF BOCKERS

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WILL CLAYTON PKWY / JFK FLYOVEI BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 2

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

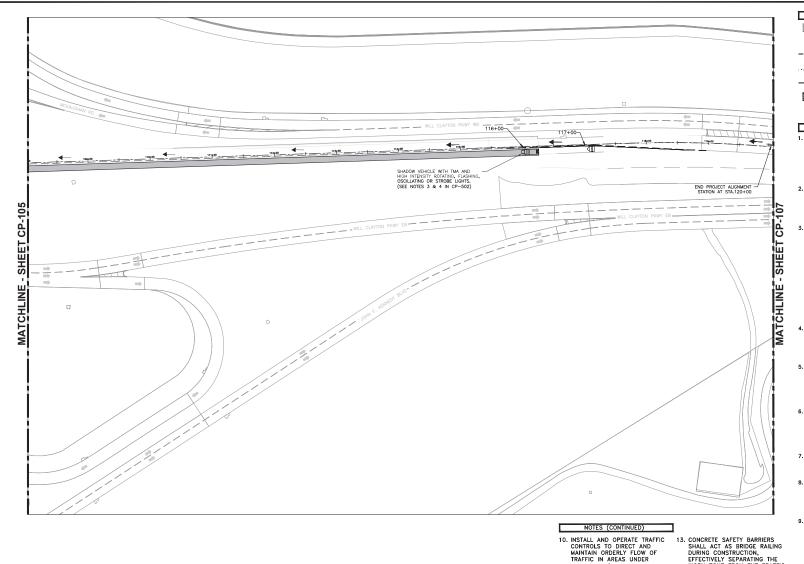
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06/26/2020 * 122123

DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



- CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005 FOR MORE INFORMATION.
- EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

WORK ZONE-PHASE 2

TRAFFIC CONTROL SIGN

__CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-PAVEMENT MARKING

DEBRIS SHIELD

TRAFFIC FLOW

NOTES

- 1. AT THE COMMENCEMENT OF THE AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES. DEVICES AND FEATURES.
- ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC IN WRITING ONCE ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE PROJECT SO THAT THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE CONTRACTOR'S RESPONSIBLE PERSON CAN CONDUCT A NIGHT INSPECTION OF THE SAID TOP AND TRAFFICIAL OF WORK WILL NOT BE AUTHORIZED FOR WORK WILL NOT BE AUTHORIZED FOR DEPARTMENT OF THE SAID APPROVAL TO PROCEED WITH THE WORK.
- WORK.

 CONTRACTOR SHALL HAVE A
 SUFFICIENT AMOUNT OF TRAFFIC
 CONTROL DEVICES IN A CCEPTABLE
 CONDITION TO REPLACE ANY
 DAMAGED TRAFFIC CONTROL DEVICE
 WITHIN 24 HOURS OF NOTIFICATION.
- 5. PROVIDE ADDITIONAL SIGNS AND PROVIDE ADDITIONAL SIGNS AND
 BARRICADES AS NECESSARY TO
 ADDRESS FIELD CONSTRUCTIBILITY
 AND VISIBILITY. THESE ADDITIONAL
 SIGNS WILL BE CONSIDERED
 SUBSIDIARY TO ITEM 502 IN THE TYDOT SPECIFICATIONS
- 6. COORDINATE THE TRAFFIC CONTROL
 PLAN AND THE VARIOUS SEQUENCES
 OF CONSTRUCTION WITH ADJACENT
 CONSTRUCTION PROJECTS IF
 APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER
 WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE
 CHANGE CHANGE.
- 9. PHASE 2 INCLUDES THE LEFT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE RIGHT LANE OF THE PROJECT AREA.





ATKINS

NO. DESCRIPTION DATE BY



MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 2

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

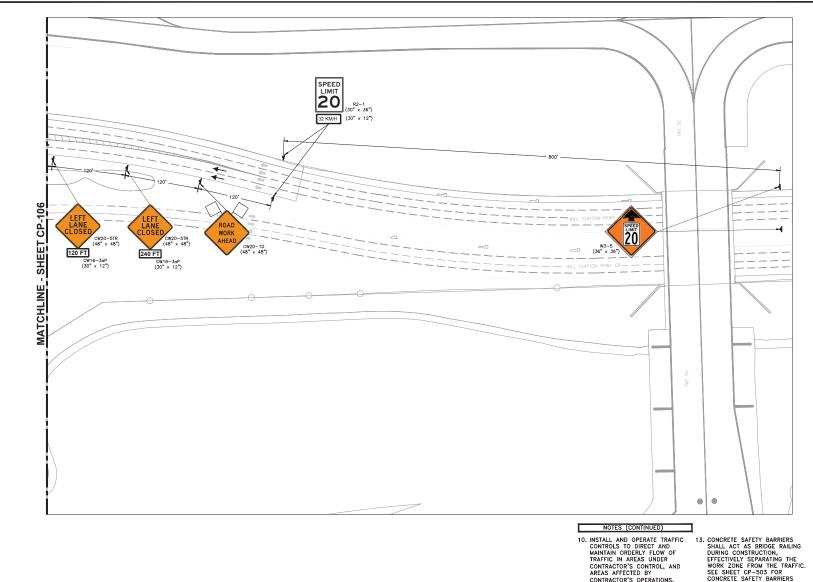
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DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



WORK ZONE-PHASE 2

TRAFFIC CONTROL SIGN

_CONCRETE SAFETY

·····TRAFFIC BARRELS

-PAVEMENT MARKING

DEBRIS SHIELD

◆ TRAFFIC FLOW

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE PROJECT SO THAT THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE CONTRACTOR'S RESPONSIBLE PERSON CAN CONDUCT A NIGHT INSPECTION OF THE SAID TOP AND TRAFFICIAL OF WORK WILL NOT BE AUTHORIZED FOR WORK WILL NOT BE AUTHORIZED FOR DEPARTMENT OF THE SAID APPROVAL TO PROCEED WITH THE
- WURN.

 4. CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.
- WITHIN 24 HOURS OF NOTHICATION

 PROVIDE ADDITIONAL SIGNS AND
 BARRICADES AS NECESSARY TO
 ADDRESS FIELD CONSTRUCTIBILITY
 AND VISIBILITY. THESE ADDITIONAL
 SIGNS WILL BE CONSIDERED
 SUBSIDIARY TO ITEM DOZ IN THE TYDOT SPECIFICATIONS
- IXDUI SPECIFICATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.
- 8. NOTIFY THE HAS PROJECT ENGINEER
 WHEN MAJOR TRAFFIC CHANGES ARE
 TO BE MADE. NOTIFICATIONS MUST
 BE GIVEN A MINIMUM OF THREE
 WORKING DAYS PRIOR TO THE
 CHANGE CHANGE.
- 9. PHASE 2 INCLUDES THE LEFT LANE CLOSURE AND DIVERGING ALL THROUGH TRAFFIC INTO THE RIGHT LANE OF THE PROJECT AREA.





CONTRACTOR'S OPERATIONS.

11. SEE SHEETS CP-501 THROUGH CP-509 FOR TRAFFIC CONTROL

DETAILS AND NOTES. 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005 FOR MORE INFORMATION. DETAILS AND NOTES.

14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.



ATKINS

NO. DESCRIPTION DATE BY



MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 2

WILL

PROJECT MGR:

DRAWN BY: CHECK BY:

SCALE:

JLV EW

KJV MS

06/26/2020

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DIRECTOR HOUSTON AIRPORT S

100066296

PROJECT NO.

C.I.P. NO.

H.A.S. NO.

- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.





- 10. INSTALL AND OPERATE TRAFFIC CONTROLS TO DIRECT AND MAINTAIN ORDERLY FLOW OF TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE
 INSTALLED BY CONTRACTOR
 WHERE ROADS CROSS UNDER
 THE BRIDGE. SEE SHEETS G-005,
 CD-101, AND CD-102 FOR MORE INFORMATION.
- 13. CONCRETE SAFETY BARRIERS SHALL ACT AS BRIDGE RAILING DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.



_CONCRETE SAFETY
BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. NOTIFY THE HAS PROJECT ENGINEER IN WRITING ONCE ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
 CONTROL DEVICES. COMMENCEMENT
 OF WORK WILL NOT BE AUTHORIZED
 NOR ALLOWED UNTIL THE HAS
 PROJECT ENGINEER GIVES THE
 APPROVAL TO PROCEED WITH THE
 WORK.
- CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY AND VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502 IN THE TXDOT SPECIFICATIONS.
- RADUL SPECIATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC. TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.
- CHANGE.

 9. PHASE 3 INCLUDES THE CLOSURE

 OF THE BRIDGE AND A DETOUR IS

 USED TO REPOUTE TRAFFIC FROM
 WILL CLAYTON TO JFK. PHASE 3

 WORK IS STRICTLY NIGHT WORK
 AND WILL RUN CONCURRENTLY WITH
 PHASE 1. ALL TRAFFIC CONTROL

 SCOUENCES SHALL BE RESTORED TO
 PHASE 1 CONDITIONS PRIOR TO

 PHASE 1 CONDITIONS PRIOR TO OPENING UP THE BRIDGE FOR THROUGH TRAFFIC DURING THE DAY DURING PHASE 1.







ATKINS

REVISIONS NO. DESCRIPTION DATE BY

CITY OF BOCKESS

MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

WILL



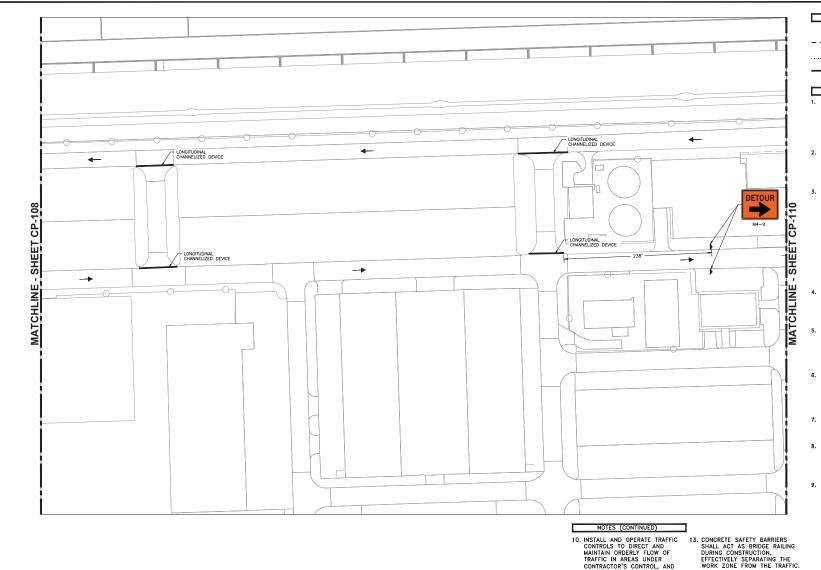
APPROVED BY:

DIRECTOR HOUSTON AIRPORT :

PROJECT NO. 100066296

C.L.P. NO.

H.A.S. NO.



- CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005, CD-101, AND CD-102 FOR MORE INFORMATION.
- SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

LEGEND TRAFFIC CONTROL SIGN

_CONCRETE SAFETY
BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- NOTIFY THE HAS PROJECT ENGINEER IN WRITING ONCE ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
 CONTROL DEVICES. COMMENCEMENT
 OF WORK WILL NOT BE AUTHORIZED
 NOR ALLOWED UNTIL THE HAS
 PROJECT ENGINEER GIVES THE
 APPROVAL TO PROCEED WITH THE
 WORK.
- 4. CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY AND VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502 IN THE TXDOT SPECIFICATIONS.
- 6. COORDINATE THE TRAFFIC CONTROL
 PLAN AND THE VARIOUS SEQUENCES PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.
- 9. PHASE 3 INCLUDES THE CLOSURE OF THE BRIDGE AND A DETOUR IS USED TO REROUTE TRAFFIC FROM WILL CLAYTON TO JFK. PHASE 3 WORK IS STRICTLY NIGHT WORK WORK IS STRICTLY NIGHT WORK
 AND WILL RUN CONCURRENTLY WITH
 PHASE 1. ALL TRAFFIC CONTROL
 SEQUENCES SHALL BE RESTORED TO
 PHASE 1 CONDITIONS PRIOR TO OPENING UP THE BRIDGE FOR THROUGH TRAFFIC DURING THE DAY DURING PHASE 1.







ATKINS

REVISIONS NO. DESCRIPTION DATE BY

CITY OF BOCKESS

ന

OVE WILL CLAYTON PKWY / JFK FLYOVE BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS

WILL



06/26/2020

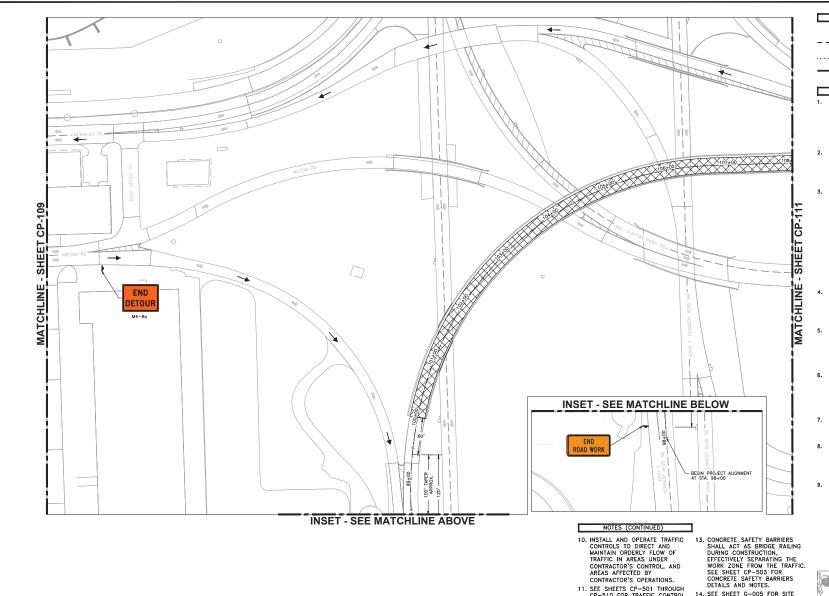
APPROVED BY:

SCALE:

DIRECTOR HOUSTON AIRPORT S PROJECT NO. 100066296

C.I.P. NO.

H.A.S. NO.



LEGEND TRAFFIC CONTROL SIGN

_CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED CONDITION AND MAINTAINED
 THE PROJECT, AS PER GUIDELINES FOR
 TEMPORARY TRAFFIC CONTROL
 DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTROL BEYIELS (MOTCH).

 NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC
 CONTROL DEVICES HAVE BEEN
 INSTALLED AS PER PLANS ON THE
 PROJECT SO THAT THE
 DEPARTIENT'S RESPONSIBLE PERSON
 ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
 OF THE SAID TCP AND TRAFFIC
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 APPROVAL TO PROCEED WITH THE
 WORK.
- CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY AND VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502 IN THE TXDOT SPECIFICATIONS.
- RADUL SPECIATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC. TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.
- CHANGE.

 9. PHASE 3 INCLUDES THE CLOSURE

 OF THE BRIDGE AND A DETOUR IS

 USED TO REPOUTE TRAFFIC FROM
 WILL CLAYTON TO JFK. PHASE 3

 WORK IS STRICTLY NIGHT WORK
 AND WILL RUN CONCURRENTLY WITH
 PHASE 1. ALL TRAFFIC CONTROL

 SCOUENCES SHALL BE RESTORED TO
 PHASE 1 CONDITIONS PRIOR TO

 PHASE 1 CONDITIONS PRIOR TO OPENING UP THE BRIDGE FOR THROUGH TRAFFIC DURING THE DAY DURING PHASE 1.





ATKINS

NO. DESCRIPTION DATE BY



WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV

WILL

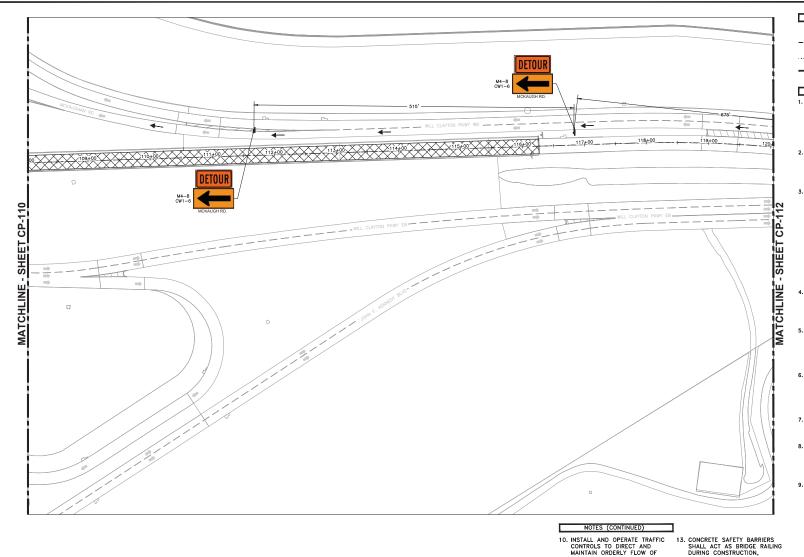
MS SCALE: 06/26/2020



PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.

- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE
 INSTALLED BY CONTRACTOR
 WHERE ROADS CROSS UNDER
 THE BRIDGE. SEE SHEETS G-005,
 CD-101, AND CD-102 FOR MORE INFORMATION
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.



- 10. INSTALL AND OPERATE TRAFFIC CONTROLS TO DIRECT AND MAINTAIN ORDERLY FLOW OF TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005, CD-101, AND CD-102 FOR MORE INFORMATION.
- EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.



_CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
- 2. ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
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- RADUL SPECIATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC. TRAFFIC.
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- CHANGE.

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ATKINS

NO. DESCRIPTION DATE BY

CITY OF BOCKERS

WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

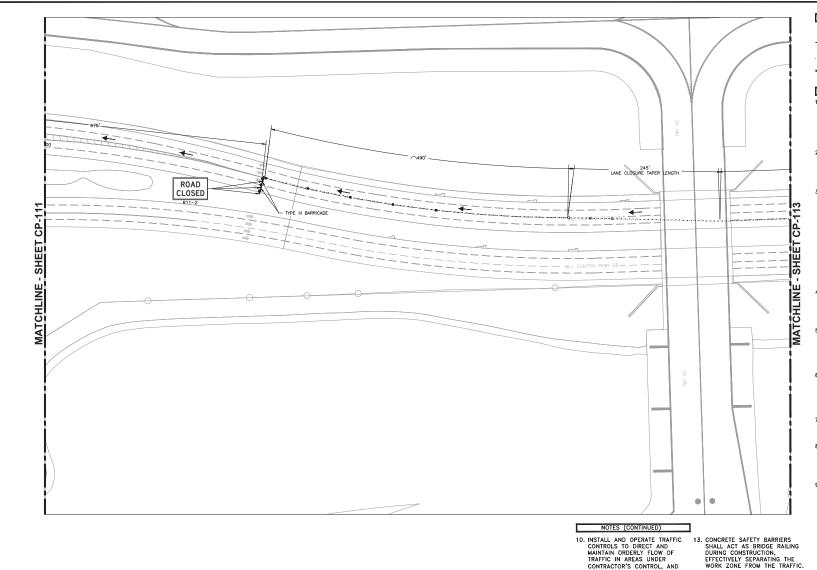
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DIRECTOR HIDIOTEC

PROJECT NO. 100066296

C.I.P. NO. H.A.S. NO.



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- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
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 CD-101, AND CD-102 FOR MORE INFORMATION.
- SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

LEGEND TRAFFIC CONTROL SIGN

_CONCRETE SAFETY
BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

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- RADUL SPECIATIONS.

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ATKINS

NO. DESCRIPTION DATE BY

CITY OF BOCKESS

WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS SCALE:

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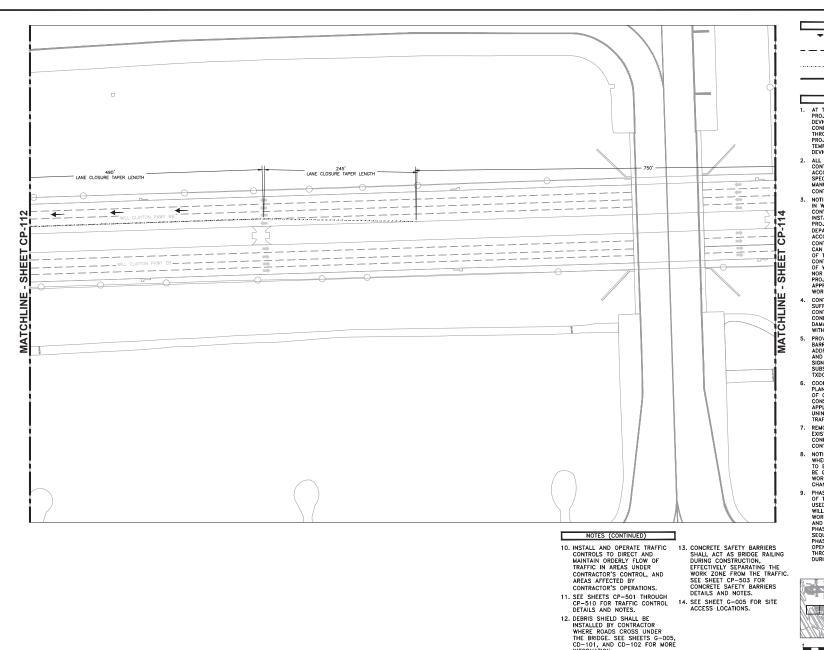


APPROVED BY:

DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

C.L.P. NO. H.A.S. NO.



INFORMATION.

LEGEND TRAFFIC CONTROL SIGN

_CONCRETE SAFETY
BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

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- 2. ALL WORK, SIGNING AND TRAFFIC ALL WORK, SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS, AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTROL BEYIELS (MOTCH).

 NOTIFY THE HAS PROJECT ENGINEER
 IN WRITING ONCE ALL TRAFFIC
 CONTROL DEVICES HAVE BEEN
 INSTALLED AS PER PLANS ON THE
 PROJECT SO THAT THE
 DEPARTIENT'S RESPONSIBLE PERSON
 ACCOMPANIED BY THE ACCOMPANIED BY THE
 CONTRACTOR'S RESPONSIBLE PERSON
 CAN CONDUCT A NIGHT INSPECTION
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 APPROVAL TO PROCEED WITH THE
 WORK.
- 4. CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.
- PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY AND VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502 IN THE TXDOT SPECIFICATIONS.
- RADUL SPECIATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC. TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
- 8. NOTIFY THE HAS PROJECT ENGINEER WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.
- CHANGE.

 9. PHASE 3 INCLUDES THE CLOSURE

 OF THE BRIDGE AND A DETOUR IS

 USED TO REPOUTE TRAFFIC FROM
 WILL CLAYTON TO JFK. PHASE 3

 WORK IS STRICTLY NIGHT WORK
 AND WILL RUN CONCURRENTLY WITH
 PHASE 1. ALL TRAFFIC CONTROL

 SCOUENCES SHALL BE RESTORED TO
 PHASE 1 CONDITIONS PRIOR TO

 PHASE 1 CONDITIONS PRIOR TO OPENING UP THE BRIDGE FOR THROUGH TRAFFIC DURING THE DAY DURING PHASE 1.





ATKINS

REVISIONS NO. DESCRIPTION DATE BY

CITY OF BOCKESS

MILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

WILL

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS SCALE:

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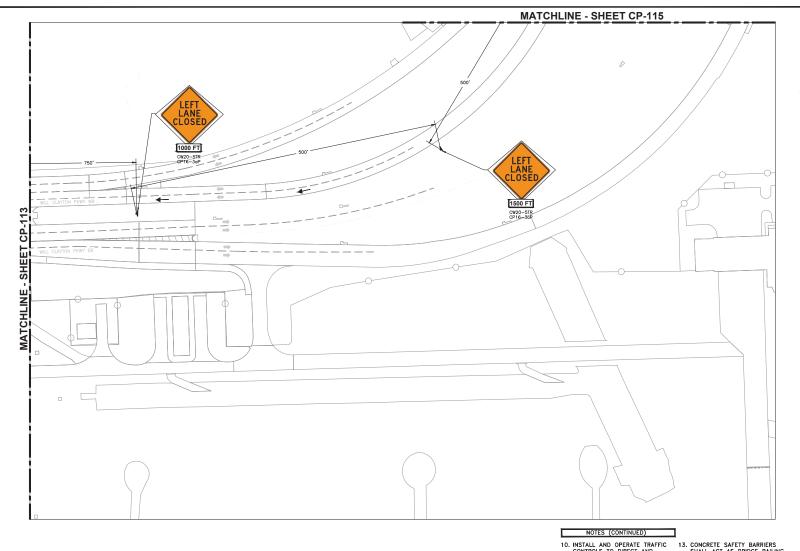


APPROVED BY:

DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

C.L.P. NO. H.A.S. NO.



- 10. INSTALL AND OPERATE TRAFFIC CONTROLS TO DIRECT AND MAINTAIN ORDERLY FLOW OF TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.
- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005, CD-101, AND CD-102 FOR MORE INSCRIPTION OF THE SHEETS SHEETS G-005, CD-101, AND CD-102 FOR MORE INSCRIPTION OF THE SHEET SHEETS G-005, CD-101, AND CD-102 FOR MORE INSCRIPTION OF THE SHEET S INFORMATION.
- 13. CONCRETE SAFETY BARRIERS SHALL ACT AS BRIDGE RAILING DURING CONSTRUCTION, EFFECTIVELY SEPARATING THE WORK ZONE FROM THE TRAFFIC. SEE SHEET CP-503 FOR CONCRETE SAFETY BARRIERS DETAILS AND NOTES.
- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

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TRAFFIC	CONTROL	SIGN	HOUSE

_CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

-LONGITUDINAL CHANNELIZED DEVICE

NOTES

- AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.
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- RADUL SPECIATIONS.

 6. COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC. TRAFFIC.
- 7. REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.
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- CHANGE.

 9. PHASE 3 INCLUDES THE CLOSURE

 OF THE BRIDGE AND A DETOUR IS

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 AND WILL RUN CONCURRENTLY WITH

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 SCOUENCES SHALL BE RESTORED TO

 PHASE 1 CONDITIONS PRIOR TO OPENING UP THE BRIDGE FOR THROUGH TRAFFIC DURING THE DAY DURING PHASE 1.





ATKINS

NO. DESCRIPTION DATE BY

CITY OF BOCKERS

WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE:

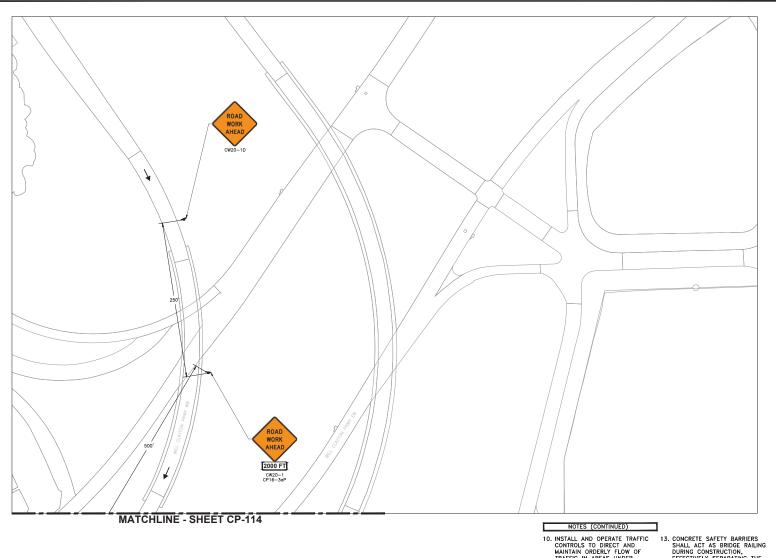
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DIRECTOR HOUSTON ARROWS

PROJECT NO. 100066296

C.LP. NO. H.A.S. NO.



TRAFFIC IN AREAS UNDER CONTRACTOR'S CONTROL, AND AREAS AFFECTED BY CONTRACTOR'S OPERATIONS.

- 11. SEE SHEETS CP-501 THROUGH CP-510 FOR TRAFFIC CONTROL DETAILS AND NOTES.
- 12. DEBRIS SHIELD SHALL BE INSTALLED BY CONTRACTOR WHERE ROADS CROSS UNDER THE BRIDGE. SEE SHEETS G-005, CD-101, AND CD-102 FOR MORE INFORMATION.
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- 14. SEE SHEET G-005 FOR SITE ACCESS LOCATIONS.

LEGEND TRAFFIC CONTROL SIGN

_CONCRETE SAFETY BARRIERS

·····TRAFFIC BARRELS

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REVISIONS NO. DESCRIPTION DATE BY

CITY OF BOCKESS

WILL CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL PLAN - PHASE 3

WILL

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV MS SCALE: 06/26/2020



DIRECTOR HIDIOTEC

PROJECT NO. 100066296

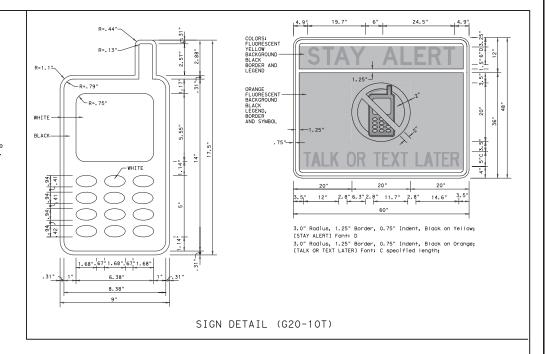
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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs.
 The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.
- 11. Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

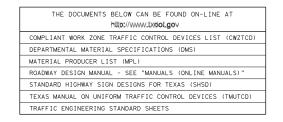
WORKER SAFETY APPAREL NOTES:

Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.



Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation Traffic Operations Division - TE Phone (512) 416-3118







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CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL DETAILS

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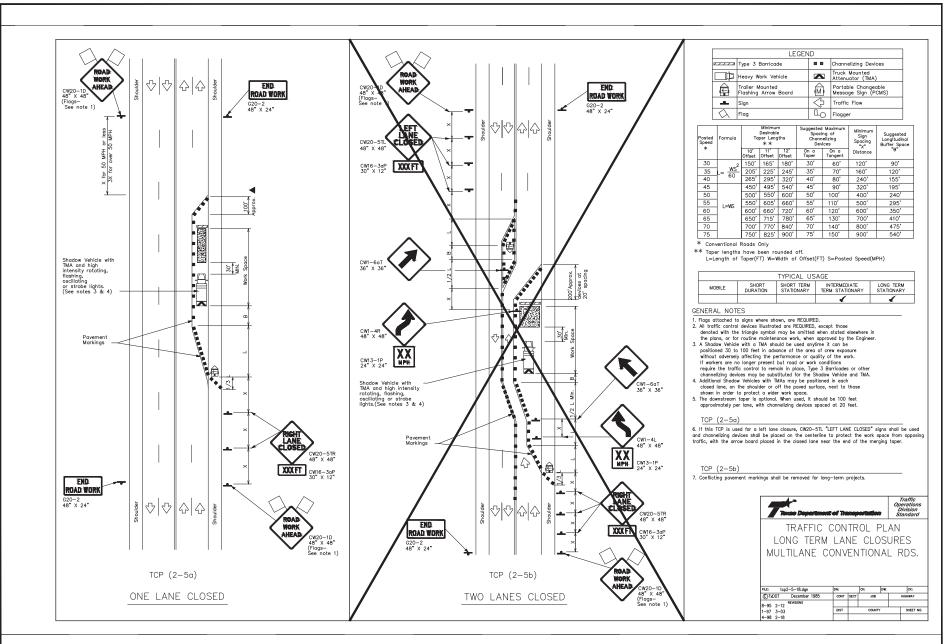
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DIRECTOR PROJECT NO. 100066296

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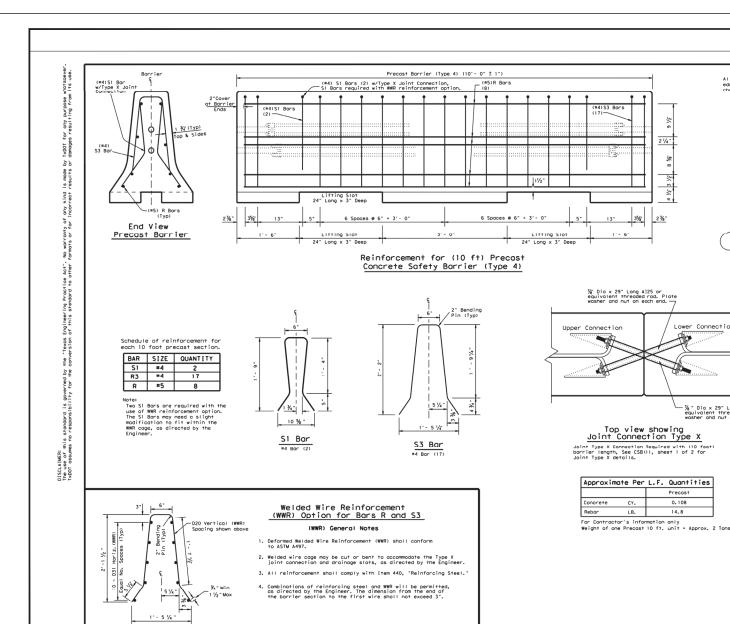
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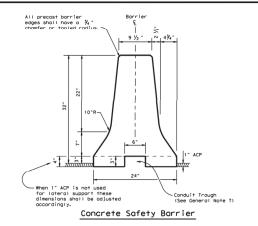


PROJECT NO. 100066296

C.L.P. NO.

H.A.S. NO.





2 1/4"

Lower Connection

Precast 0.108

14.8

CY.

LB.

 $\frac{1}{8}$ " Dia x 29" Long A325 or equivalent threaded rod. Plate washer and nut on each end.

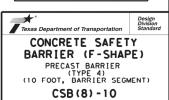
3%" 2%"

General Notes

- The 10 foot barrier is intended for maintenance applications of short duration periods. The 10 foot barrier is limited to use in temporary work zone conditions not to exceed 2 calendar months, unless approved in writing by the 1000 regineer, noting the duration and location of the barrier placement in the written approval.
- 2. 30 ft. (Type 1) barrier and 10 ft. (Type 4) barrier sections shall not be mixed in a single run of
- Barrier lengths other than 10 ft. for (Type 4) barrier are not allowed.
- 4. Concrete shall be Class H, with a minimum compressive strength of 3,600 psi.
- Where used, rebar reinforcement shall be Grade 60 and conform to ASTM A615.
- 6. Only the Type X joint connection system is to be used with Type 4 barrier and is considered subsidiary. See CSB(1), Sheet 1 of 2 , for (Type X) connection details.
- Conduit trough may be omitted, as shown elsewhere or as directed by the Engineer.

NOTE: USAGE OF THE 10 FT (TYPE 4) CSB BARRIER REQUIRES A MINIMUM OF 100 LINEAR FEET.

DISCUSSED WITH THE DESIGN DIVISION.



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HOUSIGN AIRIGIT SYSTEM

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CELL OF BOUSTERS

CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION TRAFFIC CONTROL DETAILS

JLV PROJECT MGR: EW DRAWN BY: KJV CHECK BY: MS SCALE:

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APPROVED BY:

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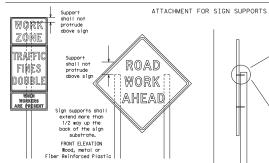
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* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

* * When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane.
Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.



Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

SIDE FLEVATION

be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means Wood supports shall not be extended or renaired by splicing or other means.

Attachment to wooden supports

will be by bolts and nuts

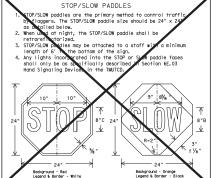
or screws. Use TxDOT's or

manufacturer's recommended

procedures for attaching sign substrates to other types of

sign supports

Nails shall NOT



CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.

 When permanent regulatory or warning signs conflict with work zone conditions,
- remove or cover the permanent signs until the permanent sign message matches the roadway condition
- the rodowdy condition.
 When existing permanent signs are moved and relocated due to construction
 purposes, they shall be visible to motorists at all times.
 If existing signs are to be relocated on their original supports, they shall be installed on grashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMI Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
- relocating existing signs.

 If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or to CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
- Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorlets. This will be subsidiary

GENERAL NOTES FOR WORK ZONE SIGNS

- 1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white
- modern sign posts sincine points white.

 All signs shall be installed in occordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and
- All signs shall be installed in occordance with the plans or as directed by the Engineer. Signs shall be used to regulate, worn, and guide the traveling public sofely through the work zone. The Contractor may furnish either the sign design shown in the plans or in the "standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMMICD but may have been and Itted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being inplemented. This can include documenting the changes in the Inspector's NADI diary and having both the inspector and Contractor in Italian and date the agreed upon changes. The Contractor shall furnish sign support in accordance with the Bray that the sign support is accordance with the manufacturer's recommendations. If there is a question reparation in South Contractor in the Inspector of the Contractor of t
- verify the correct procedures are being followed.
- verity the correct procedures are being followed.

 The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or married reflective sheeting as directed by the Engineer/Inspector.

 Identification markings may be shown only on the book of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.

 The Contractors shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

- DIRATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

 1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
- para to crashworthiness and auration of work requirements.
 Long-term stationary work that occupies a location more than 3 days.
 Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.

 Short-term stationary daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour. a. Short, duration - work that occupies a location up to 1 hour.
 e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

- SIGN MOUNTING HEIGHT
 1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plagues mounted below other signs. us stown for suppremental proques mountred below other signs.

 The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above.
- the ground. ground. -term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing
- Long-term/intermediate-term signs may be used in lieu of Short-term/Short Duration signing.

 Short-term/Short Duration signs shall be used only during doublight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.

 Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the poved surface regardless of work duration.
- The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.
- SIGN SUBSTRATES
- The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign
- Ine Contractor's shall ensure the sign substrate is installed in bocordance with the manufacturer's recommendations for the type of sign support shall be being used. The INIZED lists consistency in the contract of the state of
- centers. The Engineer may approve other methods of splicing the sign face. REFLECTIVE SHEETING
- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1). White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white bookground. Orange sheeting, meeting the requirements of DMS-8300 Type B_L or Type C_{LL}, shall be used for rigid signs with orange bookgrounds. SIGN LETTERS
- All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (Fish) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall it first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
- Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
 When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the
- minet signs are overest, intellined in lacest latin to exposure, such as leavy min flows prostric, or other instantials which will be entire sign face and maintain their opaque properties under outemable headlights at night, without damaging the sign sheeting. Burlap shall NOT be used to cover signs.
 Duct tape or other achies we material shall NOT be affixed to a sign face.

 Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

- SIGN SUPPORT WEIGHTS
- Where sign supports require the use of weights to keep from turning over.
- where sign supports require the use of weighns to keep from furning over, the use of sandbags with dry, cohesionless and should be used. The sandbags will be fied shut to keep the sand from spilling and to maintain a constant weight. Rock, concrete, iron, steel or other solid objects shall not be permitted

- for use as sign support weights. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs
- Sandbags shall be made of a durable material that tears upon vehicular impact Rubber (such as tire inner tubes) shall NOT be used
- Rubber ballasts designed for channelizing devices should not be used for
- nuover our issues designed for channel 12 mg devices should not be used for beliast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CMZTCD list. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support. Sandbags shall NOT be placed under the skid and shall not be used to level
- Sandbags shall NOT be placed under the skid and shall not be used to leve sign supports placed on slopes.

FLAGS ON SIGNS

Flags may be used to draw attention to warning signs. When used the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.



BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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FLYOVE ON PKWY / JFK FLYOV RECONSTRUCTION CONTROL DETAILS CLAYTON F BRIDGE REC TRAFFIC CO

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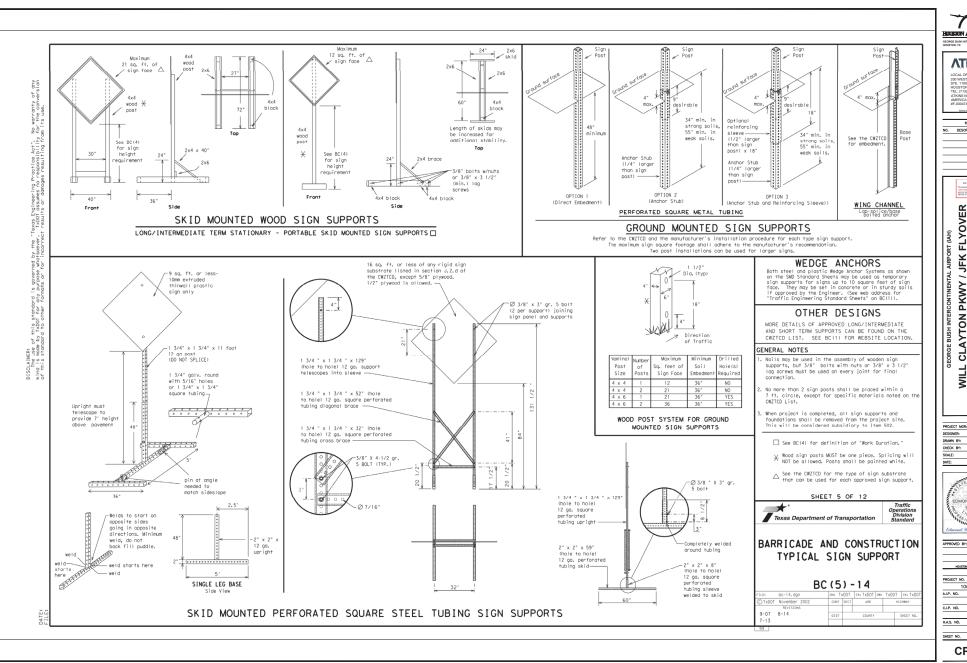
APPROVED BY:

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PROJECT NO. 100066296

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CITY OF BOCKESS

FLYOVER

CLAYTON PKWY / JFK FLYO BRIDGE RECONSTRUCTION TRAFFIC CONTROL DETAILS

JLV PROJECT MGR EW DRAWN BY: CHECK BY: MS

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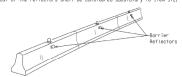
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- Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
- shown on BC(1).

 2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



CONCRETE TRAFFIC BARRIER (CTB)

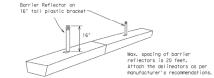
- . Where traffic is an one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attractment of a borrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located afteretly below the reflector mounted on the portier. But shown in the detail dove.

 Where CTB supportes two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces all before that only will be the constant of the control of the con
- side of the barrier shall have one vellow reflective face, as shown in the detail above.
- the detail obove.

 5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.

 6. Barrier Reflector units shall be yellow or white in color to match
- the edgeline being supplemented. Maximum spacing of Barrier Reflectors is forty (40) feet.
- Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
- 9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's
- recommendations.

 10. Missing or damaged Barrier Reflectors shall be replaced as directed
- by the Engineer.
 11. Single slope barriers shall be delineated as shown on the above detail.





DELINEATION OF END TREATMENTS

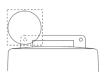
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet crashworthy standards as defined in the National Connerative way Research Report 350, Refer to treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



square. Must have a yellow reflective surface area of at least

WARNING LIGHTS

- 1. Warning lights shall meet the requirements of the TMUTCD.
- Warning lights shall NOT be installed on barricades.
- marning lights shall Not be installed on barricoses.
 Type A-Low Intensity Floating Marning Lights are commonly used with drums. They are intended to worn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_R or C_R, Sheeting meeting the requirements of Departmental Waterlal Specification DMS-8300.

- The condition of the co
- The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

- 1. Type A floating worning lights are intended to worn drivers that they are approaching or are in a potentially hazardous area.

 2. Type A random floating worning lights are intended to worn drivers that they are approaching or are in a potentially hazardous area.

 3. A series of sequential floating worning lights placed on channelizing devices to form a merging toper may be used for delineation. If used, the successive floating of the sequential worning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle poth. The rate of floating for each light shall be 65 floating be per minute, plus or minus 10 floating.

 4. Type C and D steady-burn worning lights are intended to be used in a series to delineate the edge of the travel lane on defours, on lane changes, on lane closures, and on other similar conditions.

 5. Type A, Type C and Type D worning lights shall be instabled at locations as detailed on other sheets in the plans.
- 6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- 7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

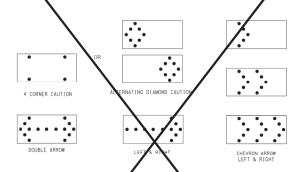
- 1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
- 2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed
- The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
- Round reflectors shall be fully reflectorized, including the area where attached to the drum.
 Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it
- Square substrates must have a minimum of 30 square incres of refrectorized sheeting, mey do not have to be refrectorized where in articles to the drum.

 The side of the worning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.

 When used near two-way traffic, both sides of the worning reflector shall be reflectorized.
- 8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
 9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the unstream side of traffic

The Flashing Arrow Board should be used for all lone closures on multi-lone roodways, or slow moving maintenance or construction activities on the travel lones. Flashing Arrow Boards should not be used on two-lone, two-vey roodways, detours, diversions or work on shoulders unless the "Callillo" display (see detail below) is used. See Enginee? Inspector shoil choose oil appropriate signs, borricodes and/or other traffic on train devices that should be used in conjunction with the Flashing Arrow Board should be able to display the following symbols:



ing simultaneously, or the Alternating corner lamps f

5. The "CAUTION" display consists of fy Diamond Coution mode as shown.
6. The straight line coution display in The Flashing Arrow Board shall be come to the flashing rate of the lamp shall.
8. Minimum lamp 'on time' shall be appointervals of 25 percent for Jeoch see m, splay is NOT ALLOWED.

Ill be capable of minimum 50 percent operations and the capable of minimum 50 percent for the approximately 50 percent for the each sequential phase of the flash 40 flashes per minute. than 40 flashes per mi flashing arrow and equal

hevron. is NOT ALLOWED.

by is the TxDOT standard; however, the sequence daylight operations. ial Chevron

of shall be mounted on a vehicle, trailer or o SHALL NOT BE USED to laterally shift traffic. suitable support.

intervals of appercent
9. The sequential arrow displaymay be used du
11. The Flashing Arrow Bair
12. A Flashing Arrow Bair
12. A Flashing Arrow Bair 11. The Flashing Arro 12. A Flashing Arrow 13. A full matrix PCM meets visibility.

may be used to simulate a Flashing Arrow Board provide ing requirements on this sheet for the same size arrow flash rate and 14. Minimum mount height of trailer mounted Arrow Boards should be 7 feet for to bottom of

REQUIREMENTS							
TYPE	MINIMUM SIZE	OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE				
В	30 x 6	13	3/4 mile				
С	48 96	15	1 mile				

ATTENTION lashing Arrow Boards shall be equipped with nutomatic dimming device THE ARROW BOARD ARROW BOARD BEHI RDRAIL.

Traffic

FLASHING ARROW BOARDS

SHEET 7 OF 12

TRUCK-MOUNTED ATTENUATORS

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the National Cooperative Highway Research Report No. 350 (NCHRP 350) or the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- Level 3 IMAS.

 3. Refer to the CWZTCD for a list of approved TMAs.

 4. TMAs are required on freeways unless otherwise noted
- in the plans. A TMA should be used anytime that it can be positioned
- a mm should be used dilythie that it can be post intimed 30 to 100 feet in advance of the area of crew exposure without odversely affecting the work performance. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

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SCALE: 06/26/2020



DIRECTOR HOUSTON AIRPORT S

PROJECT NO. 100066296

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GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the
- cones in proper position and location.

 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in topers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as
- sections by well-composed by the Engineers, and the second by the Engineers.

 4. Drums and all related items shall comply with the requirements of the current version of the "Texass Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
 The Contractor shall have a maximum of 24 hours to replace any plastic.
- drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "bose" shall be the bottom.
 The body and base shall lock together in souch a monner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal houding and/or air turbulence created by passing vehicles.

 3. Plastic drums shall be constructed of lightweight flexible, and
- deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports. 4. Drums shall present a profile that is a minimum of 18 inches in width
- at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.

 5. The top of the drum shall have a built-in handle for easy pickup and
- shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.

 6. The exterior of the drum body shall have a minimum of four alternating
- orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in
- 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footbolds of sufficient size to allow base to be held down while separating the drum body from the base.

 8. Plastic drums shall be constructed of ultra-violet stabilized, orange,
- high-density polyethylene (HDPE) or other approved material. 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10. Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

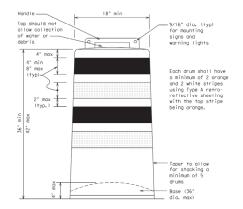
- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials," Type A reflective sheeting shall be supplied unless otherwise specified in the plans.
- Silvering shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular import, the sheeting shall remain adhered in-place and exhibit no delaminating, crocking, or loss of retroreflectivity other than that loss due to obrosion of the sheeting

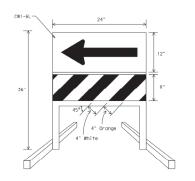
BALLAST

- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sandunballasted bases enail be large enough to hold up to builbs, of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- 2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or
- Built-in boiles can be constructed or an integral orune rubber base.

 3. Recycled truck tire sidewalls may be used for boilest on drums approved for this type of boilest on the CMZTCD list.

 4. The boilest shall not be heavy bleate, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle. 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.



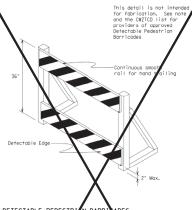


DIRECTION INDICATOR BARRICADE

- | The Direction Indicator Barricade may be used in topers, transitions, and other areas where specific directional guidance to drivers is necessory.

 2. If used, the Direction Indicator Barricade should be used in series to direct the necessory.

 3. The Direction Indicator Barricade should be used in series to direct the driver through the transition and into Inseries to direct the growing that the properties of the proper



DETECTABLE PEDESTR N BARR 1. When existing ped

- disrupted, closed, or

- le, do not comply with the design standards as with Disabilities Act Accessibility Guide dings and Facilities (ADAAG)" and should not troil for bedestrian movements.



R4 series or other signs as approved by Engineer



Vertical Panel mount with diagonals sloping down towards

Plywood. Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- 1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- 2. Chevrons and other work zone signs with an arange background shall be manufactured with Type $B_{\rm F_L}$ or Type $G_{\rm F_L}$ Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- 3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A
 Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- 7. Chevrons may be placed on drums on the outside of ourves on merging topers or on shifting topers. When used in these locations they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-14

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REVISIONS						
4-03 7-13	DIST		COUNTY			SHEET NO.
9-07 8-14						

REVISIONS NO. DESCRIPTION DATE BY

CELL OF BOX 1250

ATKINS

OVER

ON PKWY / JFK FLYOV RECONSTRUCTION CONTROL DETAILS CLAYTON F BRIDGE REC TRAFFIC CO WILL

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: MS SCALE: 06/26/2020

* 122123

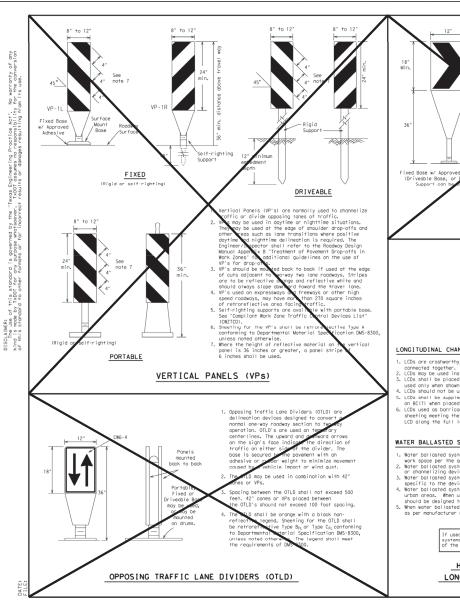
APPROVED BY:

Traffic

DIRECTOR HOUSTON AIRPORT SY PROJECT NO.

100066296 C.L.P. NO.

H.A.S. NO. 931 SHEET NO.



minimum size of 12 by 18 inches.

Chevrons are intended to give notice change of alignment with the direction and provide additional emphasis and dance for vehicle operators with report to horizontal alignment of the

3. Chevrons, when used, shall erected on the outorn, or on the far side shall be in line with of an intersection. and at right angle approaching traffic. ich that the motorist always need.

ective, the chevron should be visible least 500 feet.

hall be orange with a black nonreflec-Sheeting for the chevron shall be Type B_{FL} or Type C_{FL} conforming to crial Specification DMS-8300, The legend shall meet the

6. For Long Term Stationary transitions on freeways a ided highways self-righting chevrons may plastic drums but not to repla astic drums.

CHEVRONS

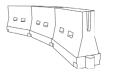
GENERAL NOTES

- 1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. Channelizing devices shown on this sheet may have a drivenble, fixed or 2. unantelizing devices snown on this sneer may have a or redout, rised or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.

 3. Channelizing devices on self-righting supports should be used in work zone
- areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gustas making all gimment of the channelizing devices difficult to maintain, Locations of these devices shall be detailed elsewhere in the plans. These devices shall be conform to the TMUICD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- device spacing and originals.

 5. Portable boses shall be forricated from virgin and/or recycled rubber. The portable boses shall weigh a minimum of 30 lbs.

 6. Powement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the powement surface. Adhesives shall be prepared and applied according to the manufacturer's
- The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discolaration or surface integrity. Driveable bases shall not be permitted on final payement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- 1. LCDs are creatworthy. Ifghtweight, deformable devices that are highly visible, have good target value and con be connected together. They are not designed to contain a redirect a vehicle on impact.

 2. LCDs may be used instead of a line of cones or drume.

 3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CMZTCD list.

 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.

- LCDs shall be supplemented with retroreflective delineation as required for temporary barriers
- on BC(7) when placed roughly parallel to the trovel lanes.

 LCOs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10) placed near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Notes buildated systems used as borriers shall not be used solely it channelize road users, but also to protect the
 work space per the appropriate NOMP 305 constanct hinser requirements based on roadway speed and borrier opplication.
 Water buildated systems used to channelize vehiculor traffic shall be supplemented with retroreflective delinaction
 or channelizing devices to improve day-time/inpritiem visibility. They may also be supplemented with potent marking
 3. Water buildated systems used as borriers shall be placed in accordance to application and installation requirements
 specific to the device, and used only water shown on the (MCTCD) list.
- specific to the device, and used only when shown on the cuziculitist.

 4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH)
- worth outboard system used as burler's should not be used for a line tying toped except in 11 was peet tress find in without areas. When used on a toper in a low speed urban area, the toper shall be delineated and the toper length should be designed to optimize road user operations considering the available generations of the should be designed to optimize road user operations considering the available to the first should be designed to optimize more should be designed to optimize the should be designed the should be designed to optimize the should be designed to optimi

f used to channelize pedestrians, longitudinal channelizing devices or water ballasted vatems must have a continuous detectable battem for users of long cames and the top the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Speed	Formula	Minimum Desirable Taper Lengths X X			Suggested Maximum Spacing of Channelizing Devices			
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	2	1501	165'	180′	30'	60′		
35	L = WS ²	205'	225'	245'	35′	70′		
40	80	2651	2951	320'	40'	80′		
45		450'	4951	540'	45′	90'		
50		500'	550'	600'	50′	100′		
55	L=WS	5501	6051	660'	55′	110'		
60	L 113	600'	660'	7201	60′	120'		
65		650'	715′	780′	65′	130′		
70		700'	770'	840'	70′	140'		
75		750′	8251	900'	75′	150'		
80		800′	8801	960'	80′	160′		

**X*Taper lengths have been rounded off.
L=Length of Taper (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12

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Texas Department of Transportation	ŝ

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-14

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© TxDOT	November 2002	CONT	SECT	J08		HIG	HWAY
	REVISIONS						
9-07	8-14	DIST		COUNTY			SHEET NO.
7-13							

ATKINS

NO. DESCRIPTION DATE BY

CEL OF BOCKERS

FLYOVER ON PKWY / JFK FLYOV RECONSTRUCTION CONTROL DETAILS CLAYTON F BRIDGE REC TRAFFIC CO WILL

PROJECT MGR: JLV EW CHECK BY: MS SCALE:

06/26/2020

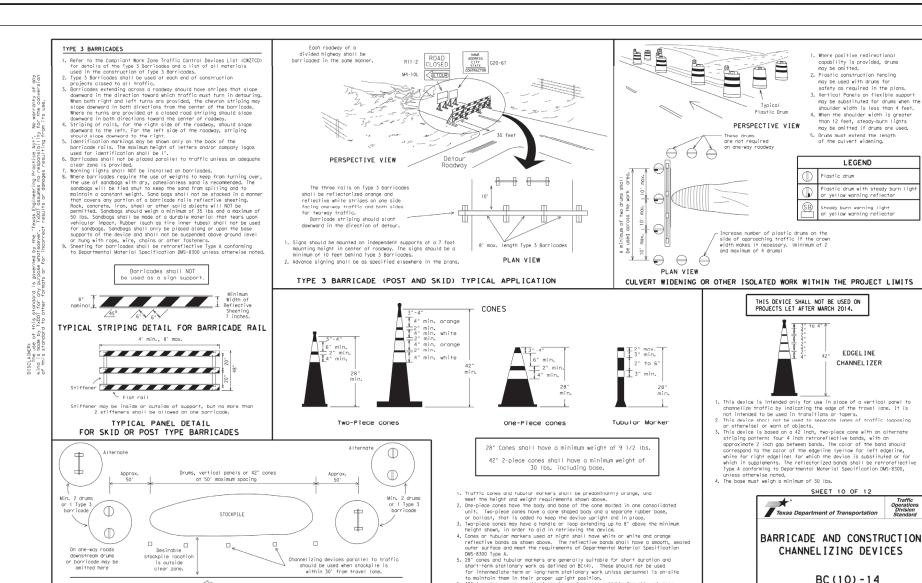


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H.A.S. NO.

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6. 42" two-piece cones, vertical panels or drums are suitable for all work zone

Cones or tubular markers used on each project should be of the same size and shape.

ATKINS NO. DESCRIPTION DATE BY CEL OF BOCKERS œ FLYOVEF

ON PKWY / JFK FLYOV RECONSTRUCTION CONTROL DETAILS CLAYTON F BRIDGE REC TRAFFIC CO WILL

PROJECT MGR: JLV EW DRAWN BY: KJV CHECK BY: MS SCALE: 06/26/2020

> * 122123

Traffic

BC(10)-14

9-07 8-14

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PROJECT NO. 100066296

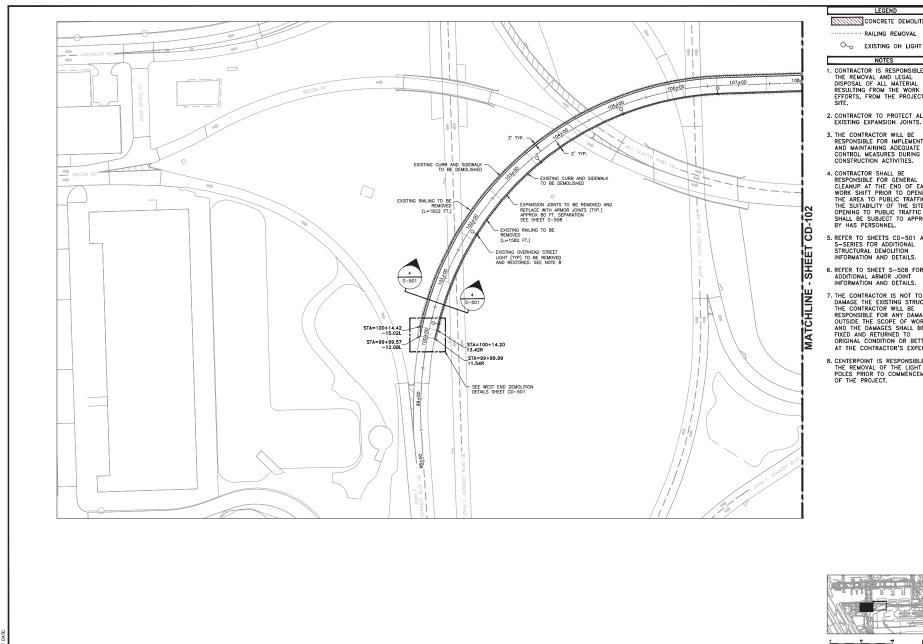
CJLP. NO. HAS. NO.

SHEET NO. **CP-509**

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TRAFFIC CONTROL FOR MATERIAL STOCKPILES



LEGEND

CONCRETE DEMOLITION

-/-/-/-/-/-/-RAILING REMOVAL

1. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIAL RESULTING FROM THE WORK EFFORTS, FROM THE PROJECT

- 2. CONTRACTOR TO PROTECT ALL EXISTING EXPANSION JOINTS.
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ADEQUATE DUST CONTROL MEASURES DURING ALL CONSTRUCTION ACTIVITIES.
- 4. CONTRACTOR SHALL BE
 RESPONSIBLE FOR GENERAL
 CLEANUP AT THE END OF EACH
 WORK SHIFT PRIOR TO OPENING
 THE AREA TO PUBLIC TRAFFIC.
 THE SUITABILITY OF THE SITE FOR
 OPENING TO PUBLIC TRAFFIC
 SHALL BE SUBJECT TO APPROVAL BY HAS PERSONNEL.
- 5. REFER TO SHEETS CD-501 AND S-SERIES FOR ADDITIONAL STRUCTURAL DEMOLITION INFORMATION AND DETAILS.
- 6. REFER TO SHEET S-508 FOR ADDITIONAL ARMOR JOINT INFORMATION AND DETAILS.
- 7. THE CONTRACTOR IS NOT TO DAMAGE THE EXISTING STRUCTURE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE SCOPE OF WORK, AND THE DAMAGES SHALL BE FIXED AND RETURNED TO ORIGINAL CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
- 8. CENTERPOINT IS RESPONSIBLE FOR THE REMOVAL OF THE LIGHT POLES PRIOR TO COMMENCEMENT OF THE PROJECT.



ATKINS

NO. DESCRIPTION DATE BY

CHTY OF BOX STATE

CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION CIVIL DEMOLITION PLAN

WILL JLV PROJECT MGR: EW DRAWN BY: CHECK BY: KJV

MS

SCALE: 06/26/2020 MOND S. WOODS 122123

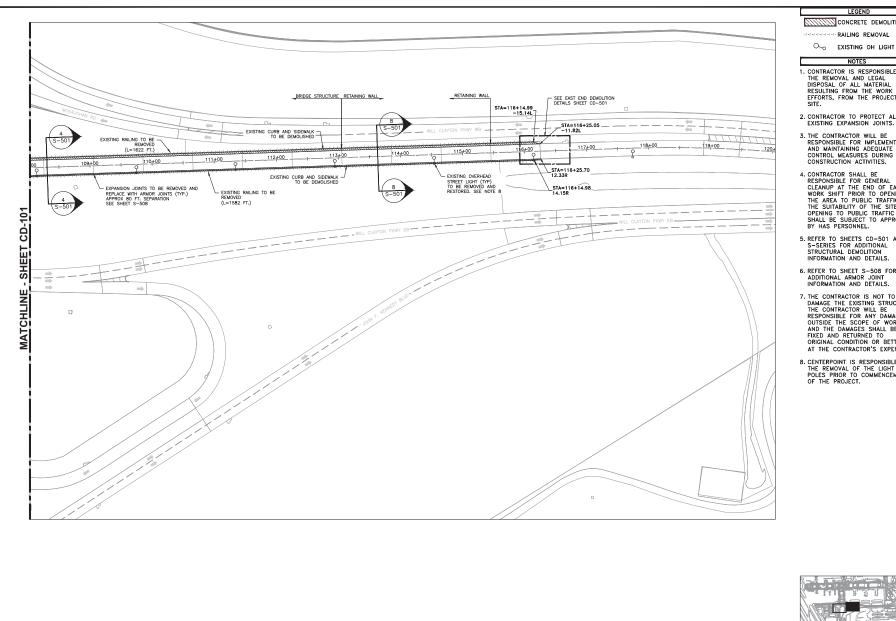
DIRECTOR HOUSTON AIRPORT SH

PROJECT NO. 100066296

C.LP. NO. H.A.S. NO.

SHEET NO.

CD-101



CONCRETE DEMOLITION

- 1. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIAL RESULTING FROM THE WORK EFFORTS, FROM THE PROJECT
- 2. CONTRACTOR TO PROTECT ALL EXISTING EXPANSION JOINTS.
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ADEQUATE DUST CONTROL MEASURES DURING ALL CONSTRUCTION ACTIVITIES.
- 4. CONTRACTOR SHALL BE
 RESPONSIBLE FOR GENERAL
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 THE AREA TO PUBLIC TRAFFIC.
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 SHALL BE SUBJECT TO APPROVAL BY HAS PERSONNEL.
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- 8. CENTERPOINT IS RESPONSIBLE FOR THE REMOVAL OF THE LIGHT POLES PRIOR TO COMMENCEMENT OF THE PROJECT.



ATKINS

NO. DESCRIPTION DATE BY

CHTY OF BOX STATE

CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION CIVIL DEMOLITION PLAN

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: KJV

WILL

MS SCALE: 06/26/2020



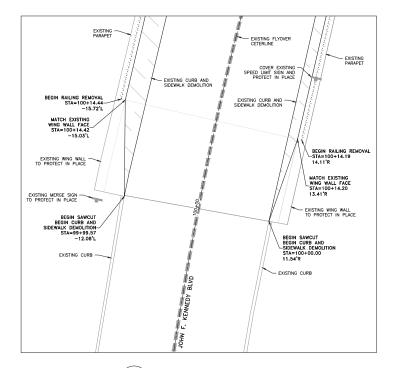
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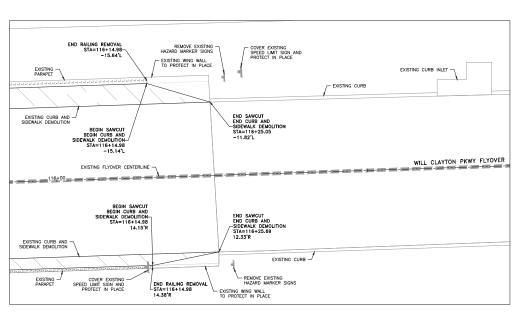
PROJECT NO. 100066296

C.LP. NO.

H.A.S. NO.

CD-102





1 WEST END DEMOLITION DETAILS
CD-501 SCALE: 1" = 5'

2 EAST END DEMOLITION DETAILS CD-501 SCALE: 1" = 5'



ATKINS LOCAL OFFICE: 200 WESTLAKE PARK BLVD. STE. 1100 HOUSTON, TX 77079 TEL: (713) 576-8500 ATKINS NORTH AMERICA PE FIRM REG. #F-000474

REVISIONS NO. DESCRIPTION DATE BY

CETY OF BOLISTIC

GEORGE BUSH INTERCONTINENTAL AIRPORT (AM)

ILL CLAYTON PKWY / JFK FLYOVER

BRIDGE RECONSTRUCTION

DEMOLITION DETAILS WILL

JLV EW PROJECT MGR: DESIGNER: DRAWN BY: CHECK BY: SCALE: KJV MS

06/26/2020



DIRECTOR HOUSTON ARPORT SYSTEM

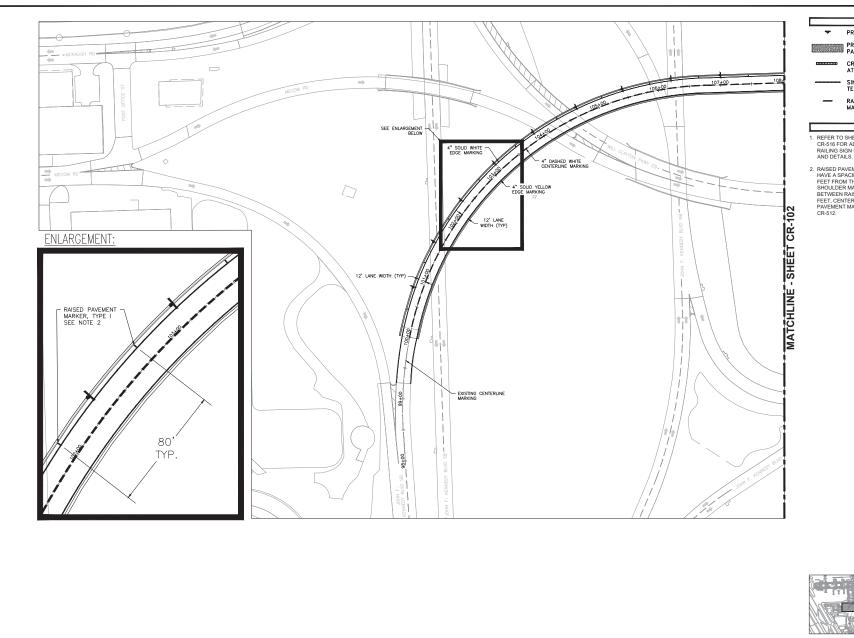
PROJECT NO.

100066296

C.LP. NO.

H.A.S. NO. SHEET NO.

CD-501



LEGEND

PROPOSED TRAFFIC SIGN

PROPOSED CONCRETE PAVEMENT

CRASH CUSHION ATTENUATOR

SINGLE GUARDRAIL TERMINAL MSKT MASH

RAISED PAVEMENT MARKER, TYPE I

NOTES

- REFER TO SHEETS CR-514 THROUGH CR-516 FOR ADDITIONAL BRIDGE RAILING SIGN MOUNTING INFORMATION AND DETAILS.
- 2. RAISED PAVEMENT MARKER SHALL HAVE A SPACING OF A MINIMUM OF 0.5 FEET FROM THE EDGE OF PAVEMENT SHAPPEN OF THE PAVEMENT SHAPPEN OF THE PAVEMENT SHAPPEN OF THE PAVEMENT OF THE PAVEMENT MARKER DETAILS, SHEET CR-512.



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GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)
WILL CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
PAVEMENT AND MARKING PLAN

PROJECT MGR: DESIGNER: DRAWN BY: CHECK BY: SCALE: JLV EW KJV MS

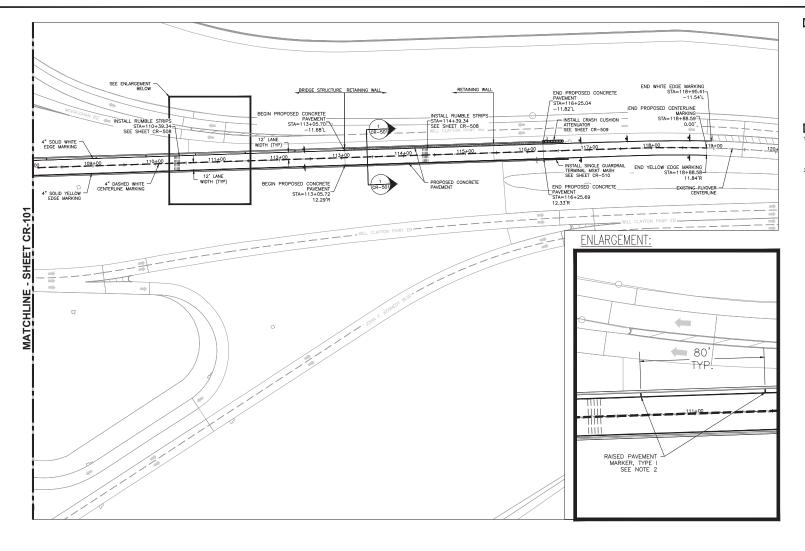
06/26/2020



100066296

C.LP. NO.

H.A.S. NO.



LEGEND

PROPOSED TRAFFIC SIGN

PROPOSED CONCRETE PAVEMENT

CRASH CUSHION ATTENUATOR

SINGLE GUARDRAIL TERMINAL MSKT MASH

RAISED PAVEMENT MARKER, TYPE I

NOTES

1. REFER TO SHEETS CR-514 THROUGH CR-516 FOR ADDITIONAL BRIDGE RAILING SIGN MOUNTING INFORMATION AND DETAILS.

2. RAISED PAVEMENT MARKER SHALL HAVE A SPACING OF A MINIMUM OF 0.5 FEET FROM THE EDGE OF PAVEMENT SHOULDER MARKING. TYPICAL SPACING BETWEEN RAISED EDGE MARKING IS 0.5 FEET, CENTER TO CENTER. SEE RAISED PAVEMENT MARKER DETAILS, SHEET CR-512.

HOLERON AIRPORT SYSTEM

ATKINS

NO. DESCRIPTION DATE BY

CELL OF BOUNDS

GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

MILL CLAYTON PKWY / JFK FLYOVER

BRIDGE RECONSTRUCTION

PAVEMENT AND MARKING PLAN

WILL

JLV EW PROJECT MGR: DESIGNER: DRAWN BY: CHECK BY:

KJV MS 06/26/2020



SCALE:

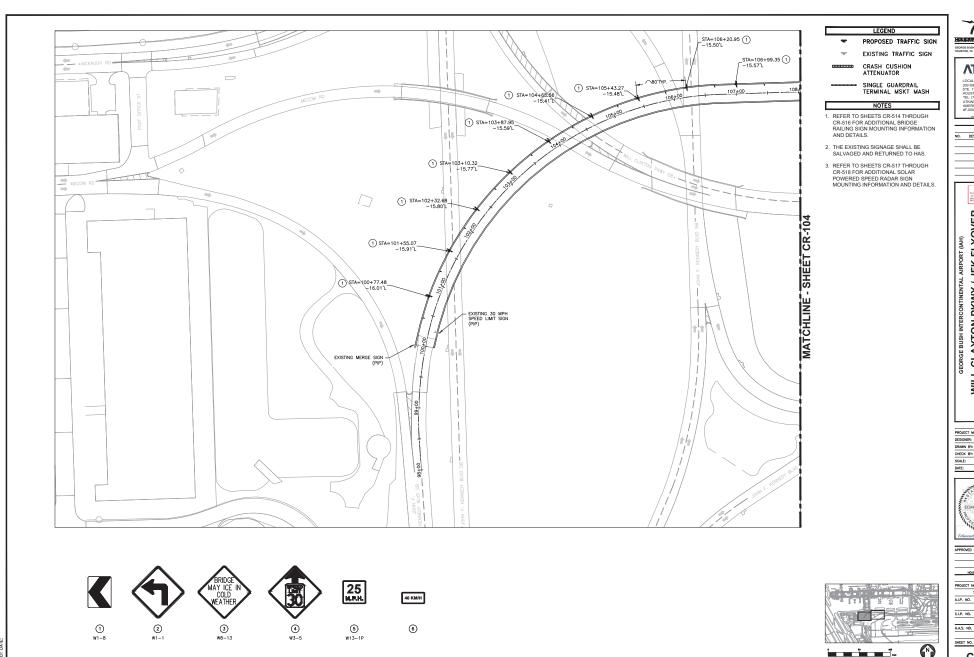
DIRECTOR HOUSTON AIRPORT SYS

PROJECT NO. 100066296

C.LP. NO.

H.A.S. NO.





NO. DESCRIPTION DATE BY

GEORGE BUSH INTERCONTINENTAL AIRPORT (AM)

ILL CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
SIGNAGE PLAN

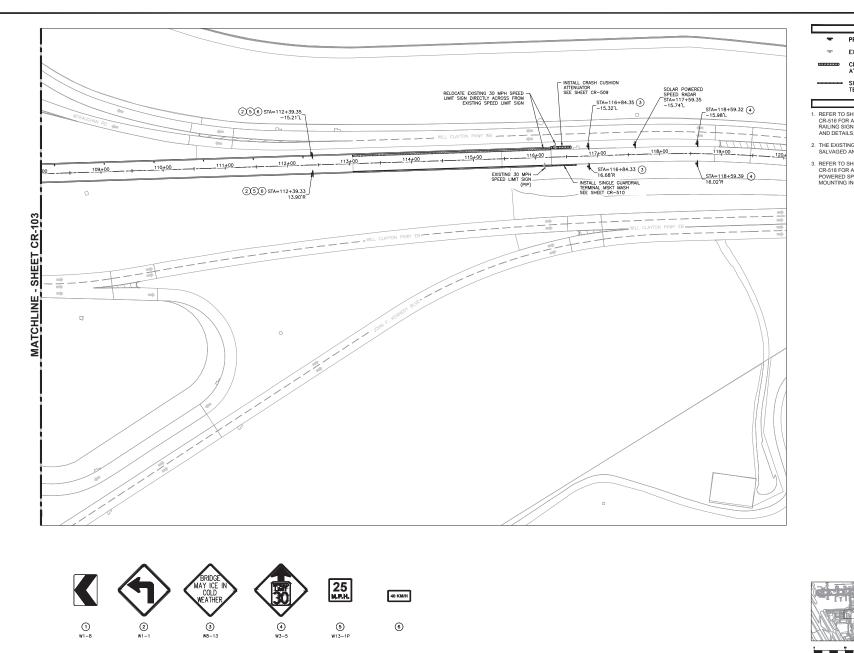
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06/26/2020



100066296



LEGEND

PROPOSED TRAFFIC SIGN

EXISTING TRAFFIC SIGN

CRASH CUSHION ATTENUATOR

SINGLE GUARDRAIL TERMINAL MSKT MASH

NOTES

- 1. REFER TO SHEETS CR-514 THROUGH CR-516 FOR ADDITIONAL BRIDGE RAILING SIGN MOUNTING INFORMATION AND DETAILS.
- THE EXISTING SIGNAGE SHALL BE SALVAGED AND RETURNED TO HAS.
- REFER TO SHEETS CR-517 THROUGH CR-518 FOR ADDITIONAL SOLAR POWERED SPEED RADAR SIGN MOUNTING INFORMATION AND DETAILS.

ATKINS

NO. DESCRIPTION DATE BY

GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

ILL CLAYTON PKWY / JFK FLYOVER

BRIDGE RECONSTRUCTION

SIGNAGE PLAN WILL (

PROJECT MGR:
DESIGNER:
DRAWN BY:
CHECK BY:
SCALE:
DATE: JLV EW KJV MS

06/26/2020



100066296

C.LP. NO.

H.A.S. NO.



NO. DESCRIPTION DATE BY

GEORGE BUSH INTERCONTINENTAL AIRFORT (AM)
WILL CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
TYPICAL PAVEMENT DETAILS

PROJECT MGR:
DESIGNER:
DRAWN BY:
CHECK BY:
SCALE:
DATE: JLV EW KJV MS

06/26/2020

MOND S. WOODS 122123

DIRECTOR HOUSTON AIRPORT SYSTEM

100066296

C.LP. NO.

HAS. NO.

SHEET NO. CR-501

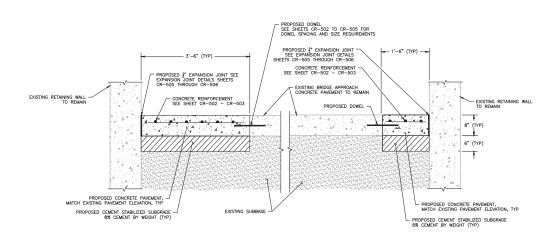
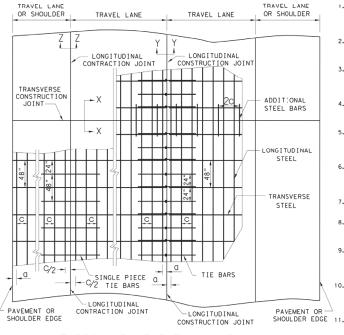


TABLE NO. 1 LONGITUDINAL STEEL ADDITIONAL STEEL SLAB THICKNESS REGULAR BARS AT TRANSVERSE CONSTRUCTION JOIN SPACING AND BAR SIZE STEEL BARS AT EDGE OR JOINT (SECTION X-X) SPACING SPACING SPACING LENGTH BAR (IN.) (IN.) SIZE (IN.) (IN.) 7.0 #5 6.5 3 TO 4 50 1.3 7.5 #5 6.0 3 TO 4 50 12 8.0 #6 9.0 3 TO 4 50 18 #6 8.5 3 TO 4 50 17 3 TO 4 9.0 #6 8.0 50 16 9.5 #6 7.5 3 TO 4 50 10.0 #6 7.0 3 TO 4 50 14 10.5 #6 6.75 3 TO 4 50 13.5 #6 3 TO 4 50 11.0 6.5 13 11.5 #6 6.25 3 TO 4 50 12.5 12.0 #6 50 6.0 3 TO 4 12 12.5 #6 5.75 3 TO 4 50 11.5 #6 13.0 5.5 3 TO 4 11 50

TABLE N	NO. 2	TRANS	VERSE	STEEL AN	D TIE I	BARS	
SLAB THICKNESS (IN.)		SVERSE TEEL	AT LON	E BARS IGITUDINAL TION JOINT TON Z-Z)	TIE BARS AT LONGITUDINAL CONSTRUCTION JOINT (SECTION Y-Y)		
	BAR SIZE	SPACING (IN.)	BAR SIZE	SPACING (IN.)	BAR SIZE	SPACING (IN.)	
7.0 - 7.5	#5	48	#5	48	#5	24	
8.0 - 13.0	#5	48	#6	48	#6	24	

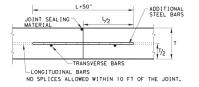


TYPICAL PAVEMENT LAYOUT

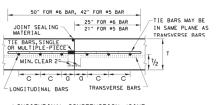
PLAN VIEW (NOT TO SCALE)

GENERAL NOTES

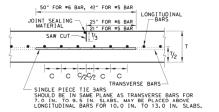
- DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS. PAVEMENTS WIDER THAN 100 FT. WITHOUT A FREE LONGITUDINAL JOINT ARE NOT COVERED BY THIS STANDARD.
- USE COARSE AGGREGATES WITH A RATED COEFFICIENT OF THERMAL EXPANSION (CoTE) OF NOT MORE THAN 5.5 X 10⁻⁶ IN/IN/ °F AS LISTED IN THE CONCRETE RATED SOURCE QUALITY CATALOG (CRSQC).
- 3. ALL THE REINFORCING STEEL AND TIE BARS SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615 (GRADE 60) OR ASTM A 996 (GRADE 60) OR ABOVE. STEEL BAR SIZES AND SPACINGS SHALL CONFORM TO TABLE NO. 1 AND TABLE NO. 2.
- 4. WHEN COARSE AGGREGATE WITH A RATED COTE OF NOT MORE THAN 4.3 X 10-6 IN/IN/ °F IS USED, TABLE NO. 1A MAY BE USED FOR LONGITUDINAL STEEL AS APPROVED BY THE ENGINEER.
- 5. STEEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1 IN. HORIZONTALLY AND -/- O. 5 IN. VERTICALLY. CALCULATED AVERAGE BAR SPACING (CONCRETE PLACEMENT WIDTH / NUMBER OF LONGITUDINAL BARS) SHALL CONFORM TO TABLE NO. 1 OR TABLE NO. 1.
- 6. PAVEMENT WIDTHS OF MORE THAN 15 FT. SHALL HAVE A LONGITUDINAL JOINT (SECTION Z-Z OR SECTION Y-Y). THESE JOINTS SHALL BE LOCATED WITHIN 6 IN. OF THE LANE LINE UNLESS THE JOINT LOCATION IS SHOWN ELSEWHERE ON THE PLANS.
- 7. THE SAW CUT DEPTH FOR THE LONGITUDINAL CONTRACTION JOINT (SECTION Z-Z) SHALL BE ONE THIRD OF THE SLAB THICKNESS (T/3).
- 8. WHEN TYING CONCRETE GUTTER AT A LONGITUDINAL JOINT, THE TIE BAR LENGTH OR POSITION MAY BE ADJUSTED. PROVIDE 3 IN. OF CONCRETE COVER FROM THE BACK OF GUTTER TO THE END OF TIE BAR.
- 9. REPLACE MISSING OR DAMAGED TIE BARS WITHOUT ADDITIONAL COMPENSATION BY DRILLING MIN. 10 IN. DEEP AND GROUTING TIE BARS WITH TYPE III, CLASS C EPOXY, MEET THE PULL-OUT TEST REQUIREMENTS IN ITEM 361.
- 10. OMIT TIE BARS LOCATED WITHIN 18-IN. OF THE TRANSVERSE CONSTRUCTION JOINTS (SECTION XXX). USE HAND-OPERATED IMMERSION VIBRATORS TO CONSOLIDATE THE CONCRETE ADJACENT TO ALL FORMED JOINTS.
- LONGITUDINAL REINFORCING STEEL SPLICES SHALL BE A MINIMUM OF 25 IN. STAGGER THE LAP LOCATIONS SO THAT NO MORE THAN 1/3 OF THE LONGITUDINAL STEEL IS SPLICED IN ANY GIVEN 12-FT. WIDTH AND 2-FT. LENGTH OF THE PAVEMENT.
- 12. THE DETAIL FOR THE JOINT SEALANT AND RESERVOIR IS SHOWN ON STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS,"



TRANSVERSE CONSTRUCTION JOINT SECTION X - X



LONGITUDINAL CONSTRUCTION JOINT SECTION Y - Y



LONGITUDINAL CONTRACTION JOINT SECTION Z - Z



CONCRETE PAVEMENT ONE LAYER STEEL BAR PLACEMENT T - 7 to 13 INCHES CRCP(1)-17

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7 ons	CONT SECT JOB			HIGHWAY			
" AND 6,5" EQUIREMENTS	DIST		COUNTY		I	SHEET NO.	

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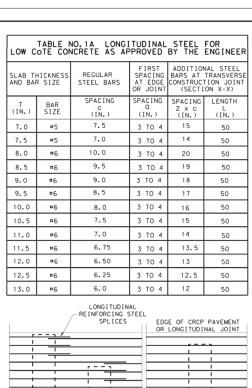
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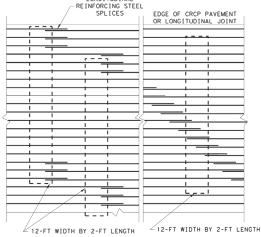
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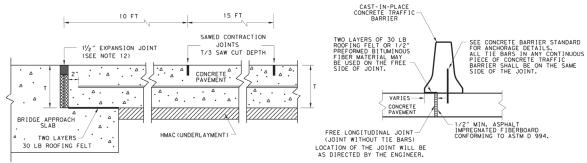
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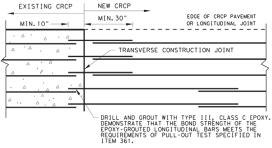


STAGGER THE LAP LOCATIONS SO THAT NO MORE THAN 1/3 OF THE LONGITUDINAL STEEL IS SPLICED IN ANY GIVEN 12-FT. WIDTH AND 2-FT. LENGTH OF THE PAVEMENT. ANY OTHER LAP CONFIGURATION MEETING THIS REQUIREMENT WILL BE ALLOWED.

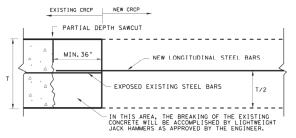
EXAMPLES OF LAP CONFIGURATION PLAN VIEW (NOT TO SCALE)



TRANSVERSE EXPANSION JOINT DETAIL AT BRIDGE APPROACH



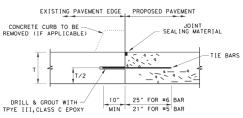
OPTION A: DRILL AND EPOXY PLAN VIEW (NOT TO SCALE)



OPTION B: BREAKBACK AND LAP

TRANSVERSE TIE JOINT DETAIL EXISTING CRCP TO NEW CRCP

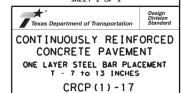
FREE LONGITUDINAL JOINT DETAIL



1. BEFORE WIDENING WORK, DEMONSTRATE THAT THE BOND STRENGTH OF THE EPOXY-GROUTED TIE BARS METS THE REQUENTMENTS OF PULL-OUT TEST SPECIFIED IN ITEM 361. 2. SPACE TIE BARS AT 24" SPACING. USE "6 TIE BARS FOR 8" AND THICKER SLABS, USE "5 TIE BARS FOR LESS THAN 8" THICK SLABS.

LONGITUDINAL WIDENING JOINT DETAIL

SHEET 2 OF 2



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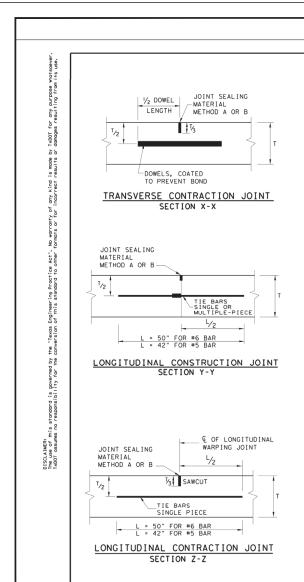
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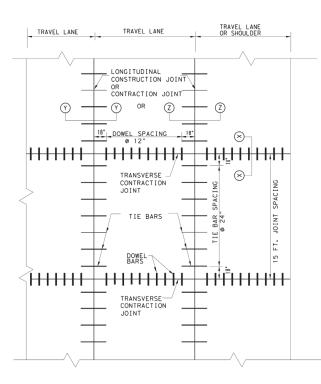
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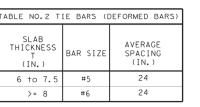




TYPICAL PAVEMENT LAYOUT PLAN VIEW (NOT TO SCALE)

TABLE	NO.1 DOWELS (S	MOOTH BARS)
SLAB THICKNESS T (IN.)	BAR DIA. AND LENGTH	AVERAGE SPACING (IN.)
6 to 7.5	1" X 18"	12
8 to 10	1 1/4" X 18"	12
>= 10.5	1 ½" X 18"	12

TABLE NO. 2 T	IE BARS ([DEFORMED BARS)
SLAB THICKNESS T (IN.)	BAR SIZE	AVERAGE SPACING (IN.)
6 to 7.5	#5	24
>= 8	#6	24



SHEET 1 OF 2 CONCRETE PAVEMENT DETAILS

GENERAL NOTES

NOT COVERED BY THIS STANDARD.

SPECIFICATION FOR "CONCRETE PAVEMENT".

CONCRETE ADJACENT TO ALL THE FORMED JOINTS.

LOCATION IS SHOWN ELSEWHERE ON THE PLANS.

METHODS APPROVED BY THE ENGINEER.

REQUIREMENTS IN ITEM 361.

MEANS APPROVED BY THE ENGINEER.

BASKETS ARE USED, REMOVE THE SHIPPING WIRES. 12. THE DETAIL FOR JOINT SEALANT AND RESERVOIR IS SHOWN ON STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS."

DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS. PAVEMENTS WIDER THAN 100 FT. WITHOUT A FREE LONGITUDINAL JOINT ARE

2. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING

3. THE SPACING BETWEEN TRANSVERSE CONTRACTION JOINTS SHALL BE 15 FT. UNLESS OTHERWISE SHOWN IN THE PLANS.

USE HAND-OPERATED IMMERSION VIBRATORS TO CONSOLIDATE THE

LOCATED WITHIN 6 IN. OF THE LANE LINE UNLESS THE JOINT

7. THE JOINT BETWEEN OUTSIDE LANE AND SHOULDER SHALL BE A

6. PAVEMENT WIDTHS OF MORE THAN 15 FT. SHALL HAVE A LONGITUDINAL JOINT (SECTION Z-Z OR SECTION Y-Y). THESE JOINTS SHALL BE

LONGITUDINAL CONTRACTION JOINT (SECTION Z-Z) UNLESS OTHERWISE SHOWN IN THE PLANS. THE SAW CUT DEPTH FOR THE LONGITUDIANL

CONTRACTION JOINT (SECTION Z-Z) SHALL BE ONE THIRD OF THE

8. WHEN TYING CONCRETE GUTTER AT A LONGITUDINAL JOINT, THE TIE BAR LENGTH OR POSITION MAY BE ADJUSTED. PROVIDE 3 IN. OF CONCRETE COVER FROM THE BACK OF GUTTER TO THE END OF TIE BAR.

REPLACE MISSING OR DAMAGED TIE BARS WITHOUT ADDITIONAL

COMPENSATION BY DRILLING MIN. 10 IN. DEEP AND GROUTING TIE BARS WITH TYPE III, CLASS C EPOXY. MEET THE PULL-OUT TEST

10. WHEN AN MONOLITHIIC CURB IS SPECIFIED, THE JOINT IN THE CURB SHALL COINCIDE WITH PAVEMENT JOINTS AND MAY BE FORMED BY ANY

11. DOWEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1/4 IN. HORIZONTALLY AND VERTICALLY UNLESS OTHERWISE SPECIFIED. WHERE DOWEL BAR

TRANSVERSE CONSTRUCTION JOINTS MAY BE FORMED BY USE OF METAL

OR WOOD FORMS EQUAL IN DEPTH TO THE DEPTH OF PAVEMENT, OR BY

CONTRACTION DESIGN T-6 to 12 INCHES

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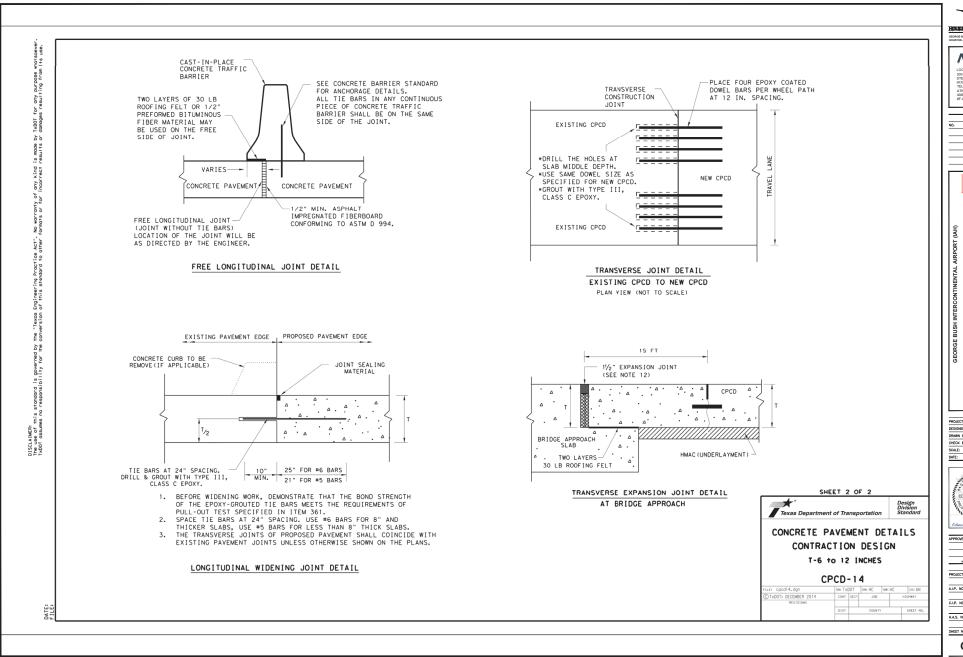
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CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION PAVEMENT DETAILS **DETAIL**§

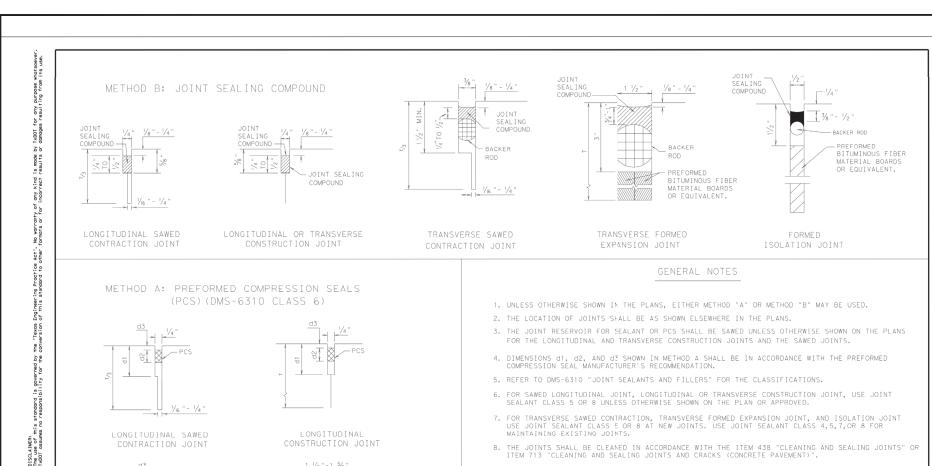
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PROJECT NO. 100066296

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- 5. REFER TO DMS-6310 "JOINT SEALANTS AND FILLERS" FOR THE CLASSIFICATIONS.
- 6. FOR SAWED LONGITUDINAL JOINT, LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT, USE JOINT SEALANT CLASS 5 OR 8 UNLESS OTHERWISE SHOWN ON THE PLAN OR APPROVED.
- 7. FOR TRANSVERSE SAWED CONTRACTION, TRANSVERSE FORMED EXPANSION JOINT, AND ISOLATION JOINT USE JOINT SEALANT CLASS 5 OR 8 AT NEW JOINTS. USE JOINT SEALANT CLASS 4,5,7,0R 8 FOR MAINTAINING EXISTING JOINTS.
- 8. THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 "CLEANING AND SEALING JOINTS" OR ITEM 713 "CLEANING AND SEALING JOINTS AND CRACKS (CONCRETE PAVEMENT)".
- 9. ISOLATION JOINTS ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS THAT OCCUR BETWEEN A PAVEMENT AND A STRUCTURE. ISOLATION JOINTS MAY BE USED FOR BRIDGE ABUTMENTS, INTERSECTIONS, CURB AND GUTTER, OLD AND NEW PAVEMENTS, OR AROUND DRAINAGE INLETS, MANHOLES, FOOTINGS AND LIGHTING STRUCTURES.





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CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION PAVEMENT DETAILS

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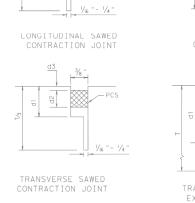
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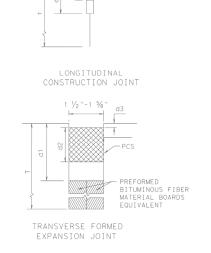
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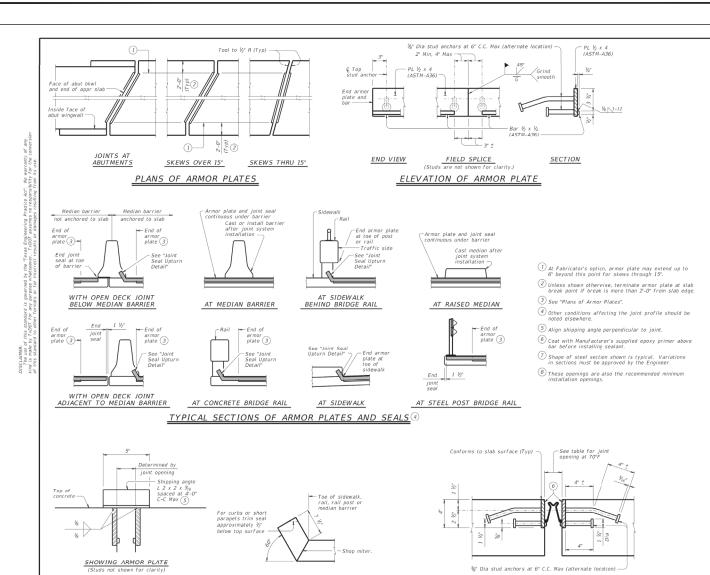
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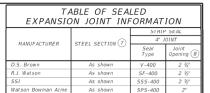
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JOINT SEAL UPTURN DETAIL



REDUCED LONGITUDINAL MOVEMENT RANGE SKEW 4.0"

4.0"

3.5"

DESIGN NOTES:

DESIGN NOTES:
Joints installed on a skew have
reduced ability to accommodate
longitudinal movement. Use table
values to determine the correct
joint size for skewed installations.
For other skews over 25 degrees,
calculate reduced movement range
by multiplying joint size by cosine

FABRICATION NOTES:

15

30

FABRICATION NOTES:
Temporarily shop assemble corresponding sections of sealed expansion joints (SEJ), check for fit, and match mark for shipment. Secure corresponding sections together for shipment with shipping angle. Do not use erection bolts.
The seal must be continuous and included in the price bid for sealed

expansion joint.
Ship steel sections in convenient lengths of 10'-0" Min and 24'-0" Max unless necessary for staged construction or widenings. One shop splice is permitted in each shipping length provided no piece is less than 2-d' long and sufficient studs are added to limit the stud to shop splice distance to 2" Min and 4" Max.

splice distance to 2" Min and 4" Max.

Weld studs in accordance with AWS D.I.d.

From the splice point preparations in the shop.

Paint the entire steel section with System II or IV primer in accordance with Item 446. "Felid Cleaning and Painting Steel." Provide paints in accordance with Item 446.4" AI and 446.4".

Accordance with Item 446.4". AI and 446.4".

AI accordance with Item 446.4" AI and 446.4".

The provide paints in accordance with Item 446.4" AI and 446.4".

AI accordance with Item 446.4" AI accordanc

CONSTRUCTION NOTES:
Secure the sealed expansion joint in position and place to the proper grade and alignment by welding braces to adjacent reinforcing steel, to prestressed beam stirrups, or to anchors cast in concrete diaphragms. Include cost of temporary bracing in the price bild for sealed expansion joint.
Remove shipping angle immediately after each joint half is secured

in place. Grind smooth, and touch up with organic zinc-rich paint. Clean and prepare seal cavity for seal installation as per the

Manufacturer's installation procedures.

Splice and install seal in accordance with the Manufacturer's directions and with the adhesive provided by the Manufacturer.

Splice in joint seal may be performed in the field.

GENERAL NOTES:

JOINT SECTION Showing R J Watson strip sea Other strip seals are similar. Provide sealed expansion joints in the size and at locations shown on the plans.

Minimum slab and overhang thickness required for the use of



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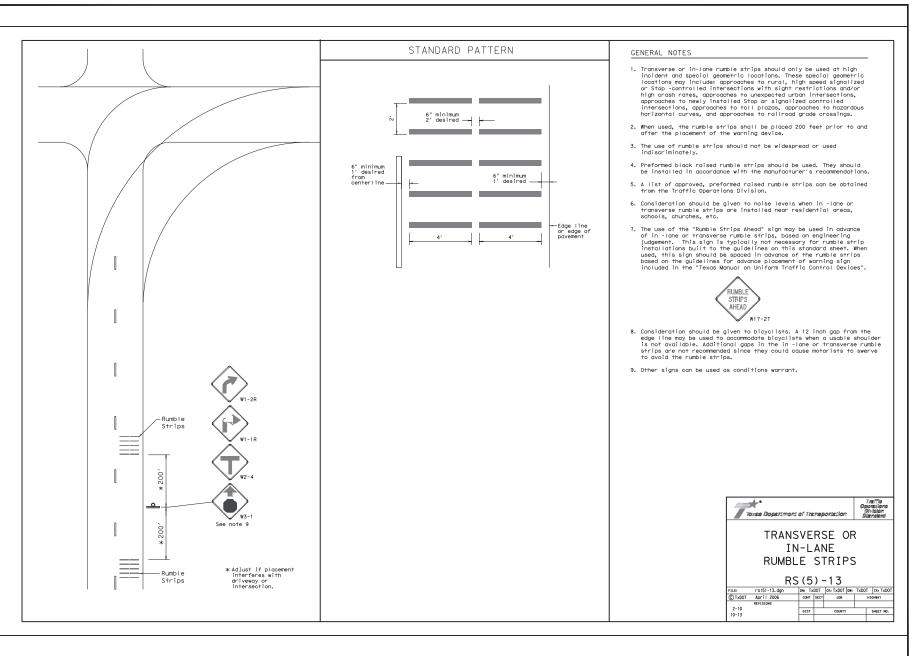
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SHIPPING ANGLE

An alternate method of securing joint sections may be used if approved by the Bridge Division.

Frection holts are not allowed





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CLAYTON PKWY / JFK FLYOVER BRIDGE RECONSTRUCTION PAVEMENT DETAILS

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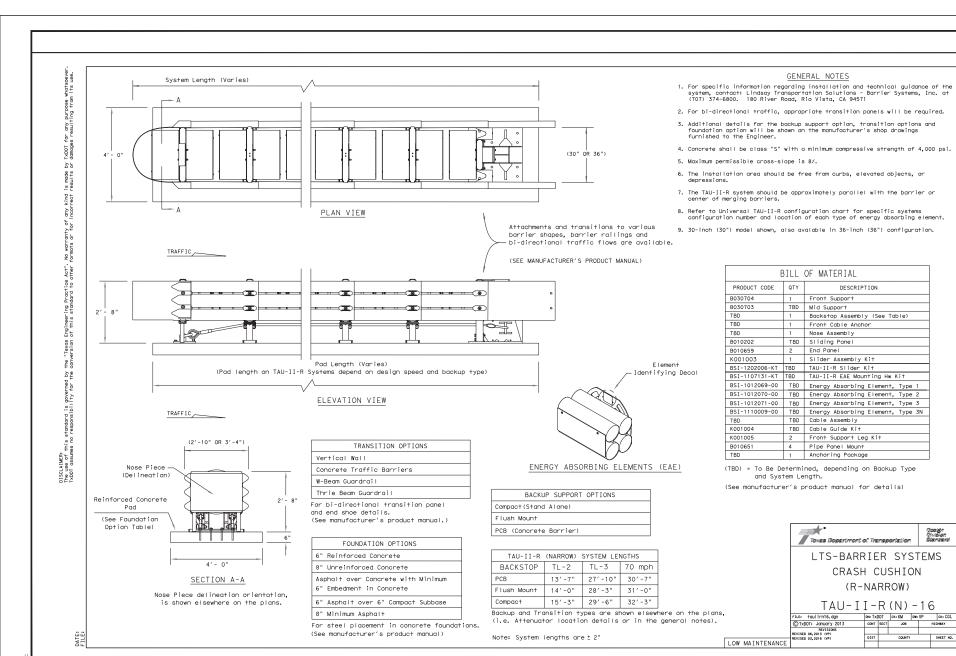


DIRECTOR HOUSTON AIRPORT

PROJECT NO. 100066296

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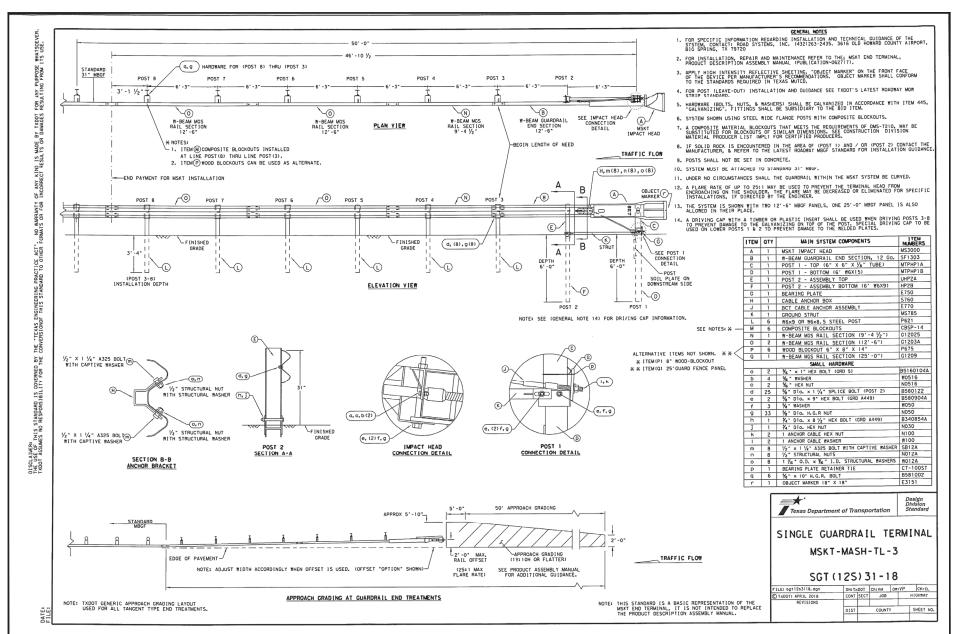


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DIRECTOR PROJECT NO.

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H.A.S. NO.





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FLYOVER MASH DETAIL

RECONSTRUCTION **CLAYTON PKWY / JFK** MSKT BRIDGE GUARDRAIL

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APPROVED BY:

PROJECT NO. 100066296

H.A.S. NO.

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WORK ZONE PAVEMENT MARKINGS

GENERAL

- 1. The Contractor shall be responsible for maintaining work zone and existing payement markings. In accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the s Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 4. Payement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- 1. Removable prefabricated pavement markings shall meet the requirements
- 2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

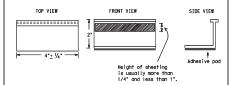
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 2. Work zone payement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

- Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- 2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- 3. Povement markings shall be removed to the fullest extent possible. so as not to leave a discernable marking. This shall be by any methy approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- 5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- 6. Blast cleaning may be used but will not be required unless specifically
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the
- Removal of existing pavement markings and markers will be paid for directly in accordance with 1tem 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NATLS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

- 1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- 2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the
 - A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall
- 3. Small design variances may be noted between tab manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new payements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

- 1. Raised pavement markers used as quidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete

Guidemarks shall be designated as: YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

DELAKTMENTAL MATERIAL STEETITEATTE	113
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).



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DIRECTOR PROJECT NO. 100066296

APPROVED BY:

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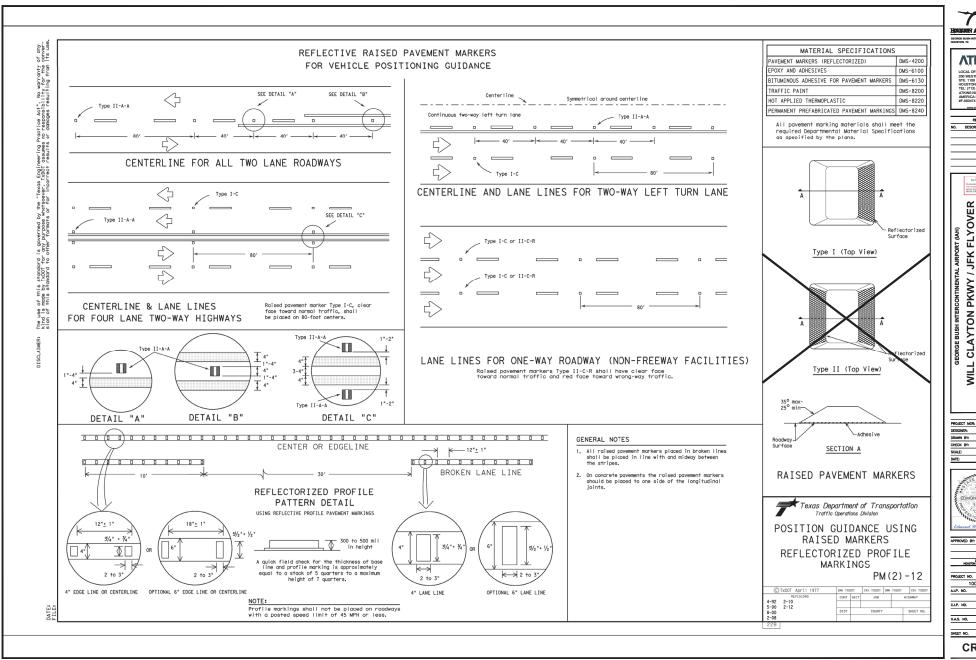
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BRIDGE RECONSTRUCTION
MARKING DETAILS

WILL

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

Texas Dopartment of Transportation

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©TxD0T February 1998	CONT	CONT SECT JOB			HIGHMAY	
REVISIONS 2-98 9-07						
1-02 7-13	DIST		COUNTY			SHEET NO.
11-02 8-14						



ATKINS LOCAL OFFICE: 200 WESTLAKE PARK BLV STE. 1100 HOUSTON, TX 77079 TEL: (713) 576-8500 ATKINS NORTH AMERICA PE FIRM REG. #F-000474

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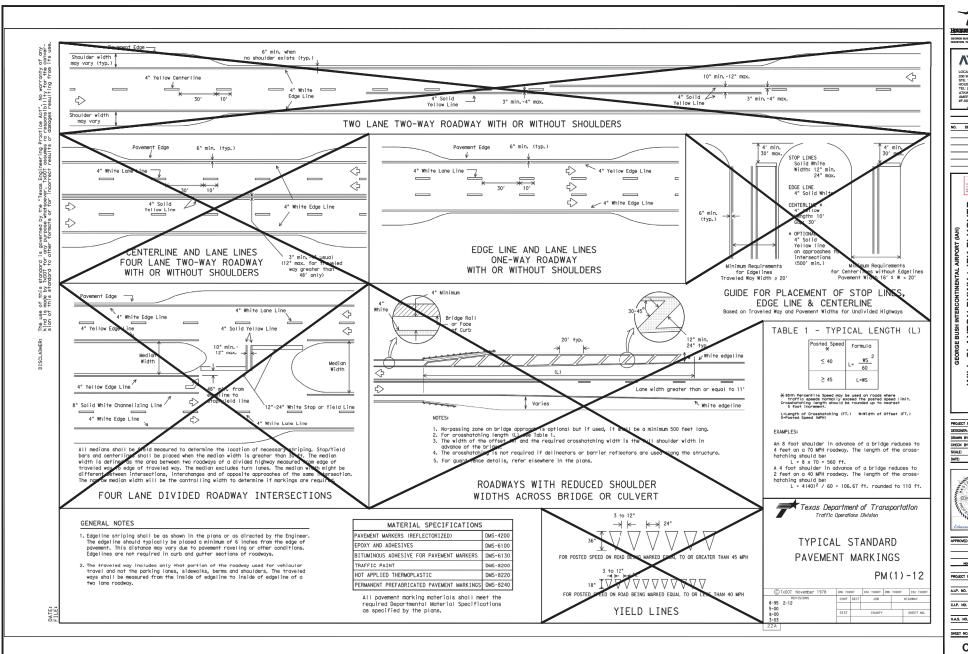
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LOCAL OFFICE: 200 WESTLAKE PARK STE. 1100 HOUSTON, TX 77079 TEL: (713) 576-8500 ATKINS NORTH

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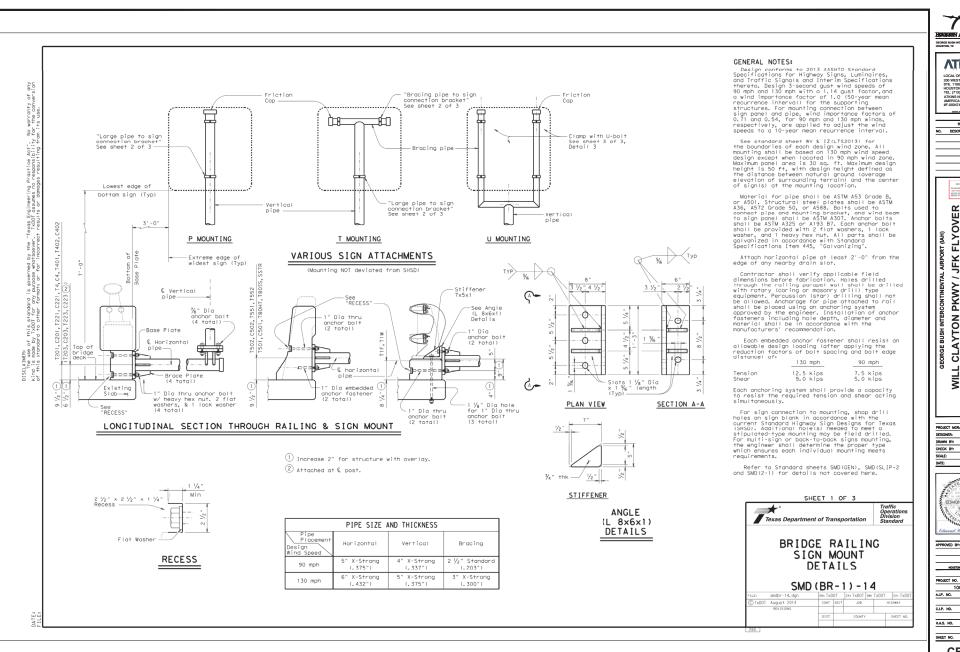
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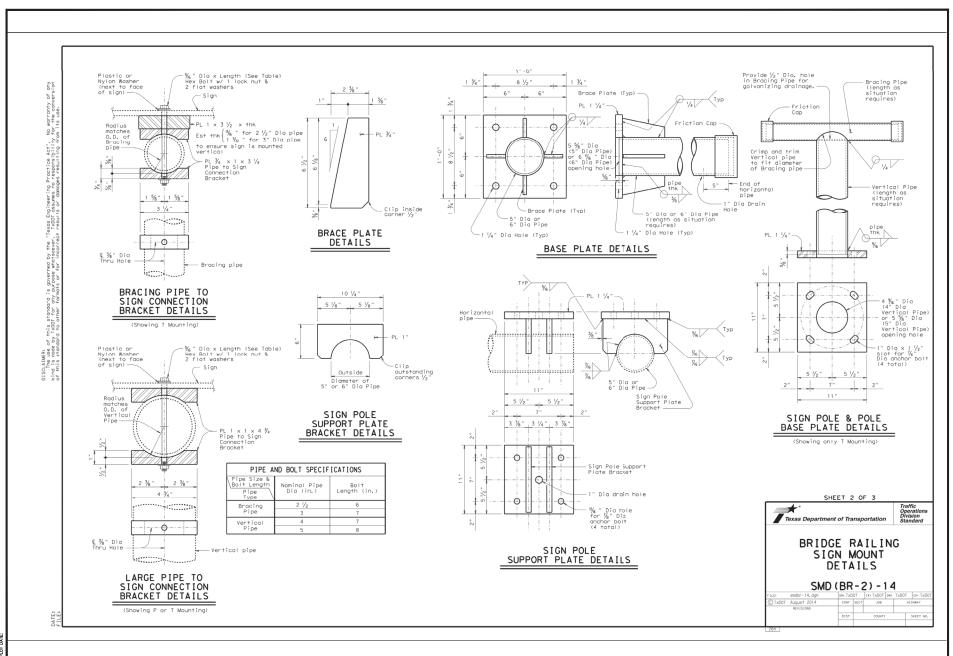
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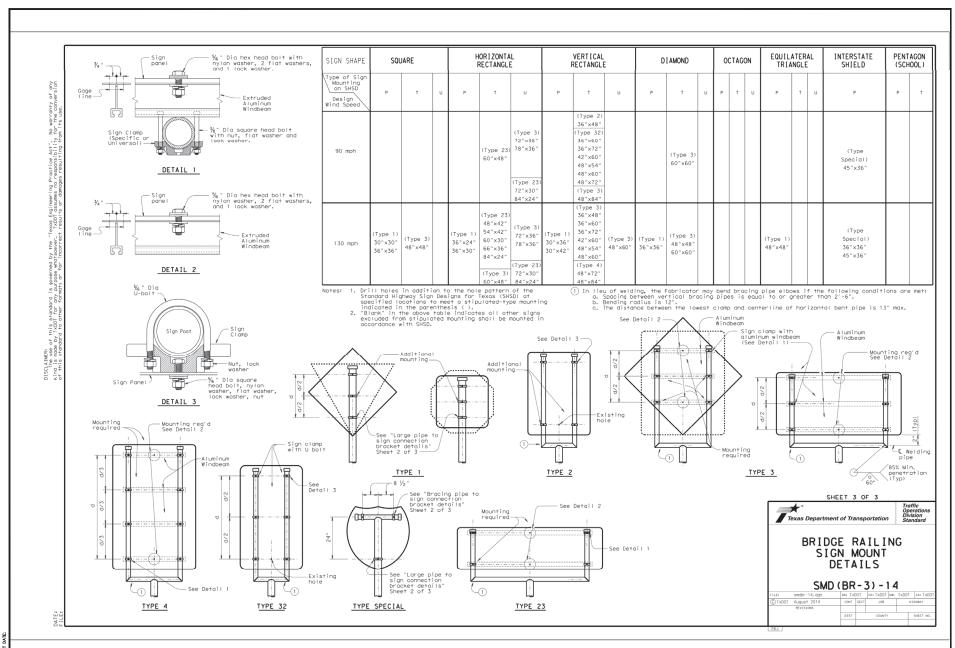


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ATKINS LOCAL OFFICE: 200 WESTLAKE PARK BLX STE. 1100 HOUSTON, TX 77079 TEL: (713) 578-8500 ATKINS NORTH AMERICA PE FIRM REG. #F-000474

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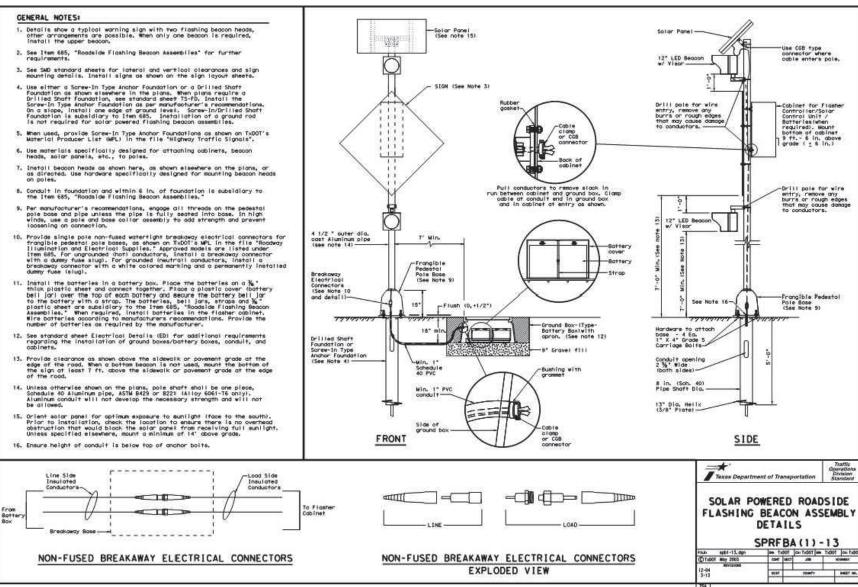


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ATKINS LOCAL OFFICE: 200 WESTLAKE PARK BLV STE. 1100 HOUSTON, TX 77079 TEL: (713) 576-8500 ATKINS NORTH AMERICA PE FIRM REG. #F-000474

Use CGB type connector where

ogble enters pole.

Cobinet for Flosher

-Drill pole for wire entry, remove any burns or rough edges that may cause damag to conductors.

-Frangible Pedestol Pole Base (See Note 9)

Traffic

- JOB

Controller/Solar Control Unit / Batteries when required). Mount bottom of agbinet 9 ft. 6 in. above grade (± 6 in.) NO. DESCRIPTION DATE BY

FLYOVER RECONSTRUCTION ۵ / JFK MOUNTING PKWY CLAYTON S S GE S BRID(RIDGE

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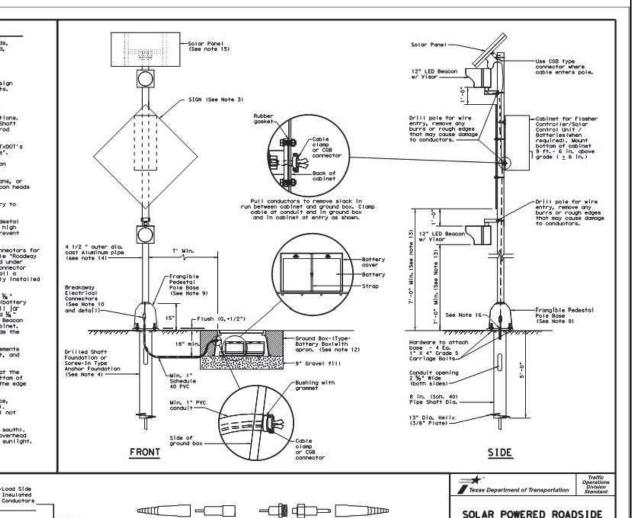
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Breakoway Base

NON-FUSED BREAKAWAY ELECTRICAL CONNECTORS

To Flasher



NON-FUSED BREAKAWAY ELECTRICAL CONNECTORS

EXPLODED VIEW



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LOCAL OFFICE: 200 WESTLAKE PARK BLV STE. 1100 HOUSTON, TX 77079 TEL: (713) 576-8500 ATKINS NORTH A/KINS NORTH AMERICA PE FIRM REG. IF-000474

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APPROVED BY:

FLASHING BEACON ASSEMBLY

DETAILS

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From Botter

SWPPP GENERAL NOTES

- 1. SEDIMENT WILL BE RETAINED ON SITE TO THE MAXIMUM EXTENT PRACTICABLE.
- IF DAMAGED OR RENDERED INEFFECTIVE, THE EROSION AND SEDIMENT CONTROLS WILL BE REPAIRED OR REPLACE IMMEDIATELY.
- 3. WHEN PUMPING (DEWATERING) STANDING STORM WATER FROM THE SITE, THE OPERATOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) FROM THE STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES THAT ADDRESS DEWATERING ACTIVITIES. UNTREATED/DIRECT DISCHARGE INTO A STORM SEWER WILL NOT BE ALLOWED.
- IF THE INTERIM PERIOD BETWEEN CONSTRUCTION OF UTILITIES AND STREET CONSTRUCTION WILL BE MORE THAN 21 DAYS, THE STREETS RIGHTS-OF-WAY WILL BE MULCHED OR OTHERWISE STABLIZED WITHIN 14 DAYS.
- AFTER PAVING COMPLETION, NEWLY GRADED AREAS AND ALL EXPOSED SOILS WILL BE COMPLETELY STABILIZED.
- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, UNLESS THEY ARE USING A PROPERLY DESIGNED AND DESIGNATED CONCRETE WASHOUT AREA.
- EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED, OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACE OR CORRECT IMMEDIATELY.
- MAINTENANCE AND REPAIRS WILL BE CONDUCTED WITHIN 24 HOURS OF INSPECTION REPORT.
- 9. ALL LITTER, TRASH AND FLOATABLE DEBRIS WILL BE CONTAINED.



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GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

ILL CLAYTON PKWY / JFK FLYOVER

BRIDGE RECONSTRUCTION

SWPPP GENERAL NOTES

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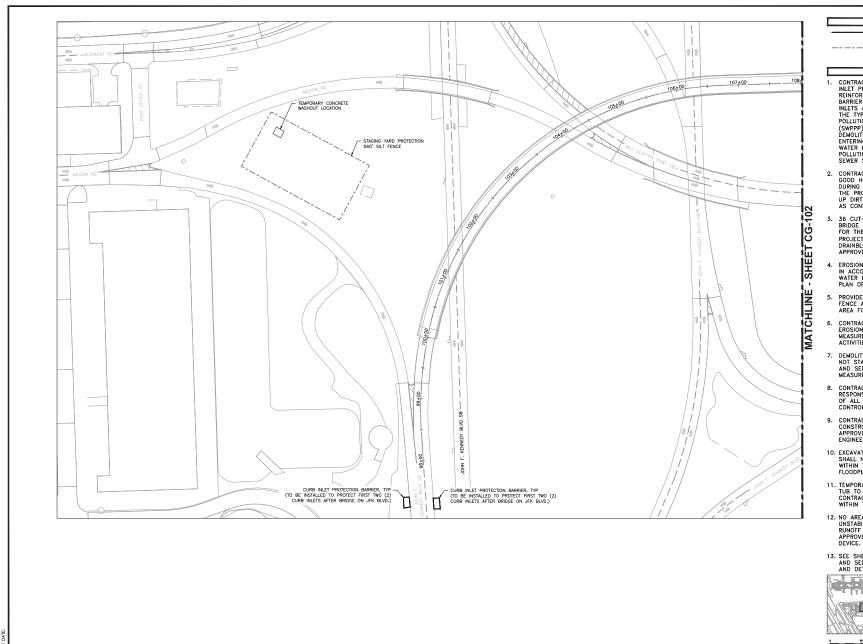
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CURB INLET PROTECTION
BARRIER

NOTES

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND INLETS AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION PLANS (SWPPP) TO KEEP SILT AND/OR DEMOLITION MATERIAL FROM ENTERING INTO THE STORM
 WATER INLETS, EVENTUALLY
 POLLUTING THE RECEIVING STORM SEWER SYSTEM.
- 2. CONTRACTOR SHALL FOLLOW
 GOOD HOUSEKEEPING PRACTICES
 DURING THE CONSTRUCTION OF
 THE PROJECT, ALWAYS CLEANING
 UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- 3. 36 CUT-OUT DRAIN SLOTS IN BRIDGE DECK TO BE COVERED FOR THE DURATION OF THE PROJECT WITH PIG 12" DIAMETER DRAINBLOCKER DRAIN COVER OR ARREDVED EQUAL APPROVED EQUAL.
- 4. EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN DRAWINGS.
- 5. PROVIDE AND MAINTAIN SILT FENCE AROUND THE STAGING AREA FOR EROSION CONTROL.
- 6. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DEMOLITION ACTIVITIES.
- 7. DEMOLITION ACTIVITIES SHALL NOT START UNTIL THE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN ACCEPTED.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED.
- 9. CONTRACTOR SHALL NOT INITIATE CONSTRUCTION UNLESS
 APPROVED BY RESIDENT ENGINEER.
- 10. EXCAVATED MATERIAL OR FILL SHALL NOT BE STOCKPILED WITHIN THE 100-YEAR FEMA FLOODPLAIN.
- 11. TEMPORARY CONCRETE WASHOUT TUB TO BE PROVIDED BY CONTRACTOR, AND LOCATED WITHIN THE STAGING AREA.
- 12. NO AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL
- 13. SEE SHEET CG 501 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.







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GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

L CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
SWPPP PLAN

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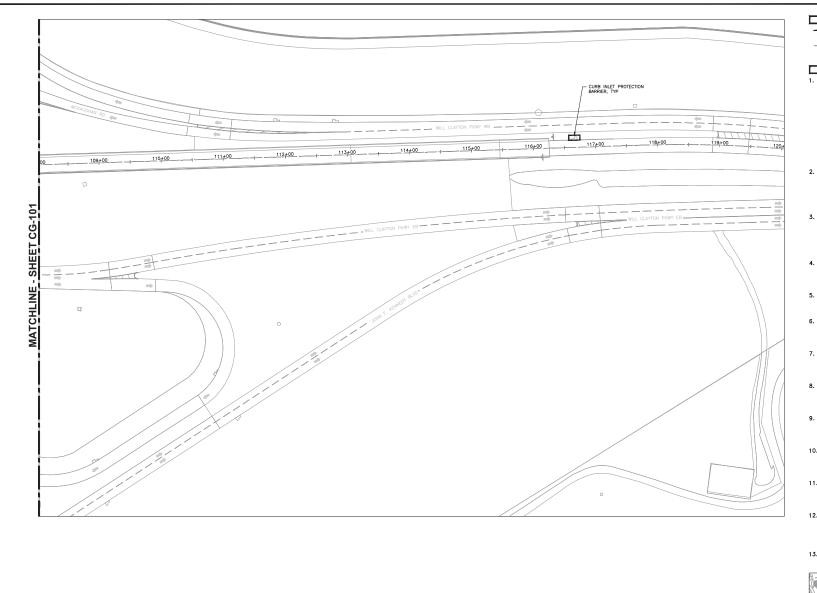
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CURB INLET PROTECTION
BARRIER

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NOTES

- 1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND INLETS AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION PLANS (SWPPP) TO KEEP SILT AND/OR DEMOLITION MATERIAL FROM ENTERING INTO THE STORM
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- 2. CONTRACTOR SHALL FOLLOW
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 THE PROJECT, ALWAYS CLEANING
 UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- 3. 36 CUT-OUT DRAIN SLOTS IN BRIDGE DECK TO BE COVERED FOR THE DURATION OF THE PROJECT WITH PIG 12" DIAMETER DRAINBLOCKER DRAIN COVER OR ARREDVED EQUAL APPROVED EQUAL.
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- ACTIVITIES.
- 7. DEMOLITION ACTIVITIES SHALL NOT START UNTIL THE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN ACCEPTED.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED.
- 9. CONTRACTOR SHALL NOT INITIATE CONSTRUCTION UNLESS
 APPROVED BY RESIDENT ENGINEER.
- FLOODPLAIN.
- 11. TEMPORARY CONCRETE WASHOUT TUB TO BE PROVIDED BY CONTRACTOR, AND LOCATED WITHIN THE STAGING AREA.





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GEORGE BUSH INTERCONTINENTAL AIRPORT (AH)

L CLAYTON PKWY / JFK FLYOVER
BRIDGE RECONSTRUCTION
SWPPP PLAN

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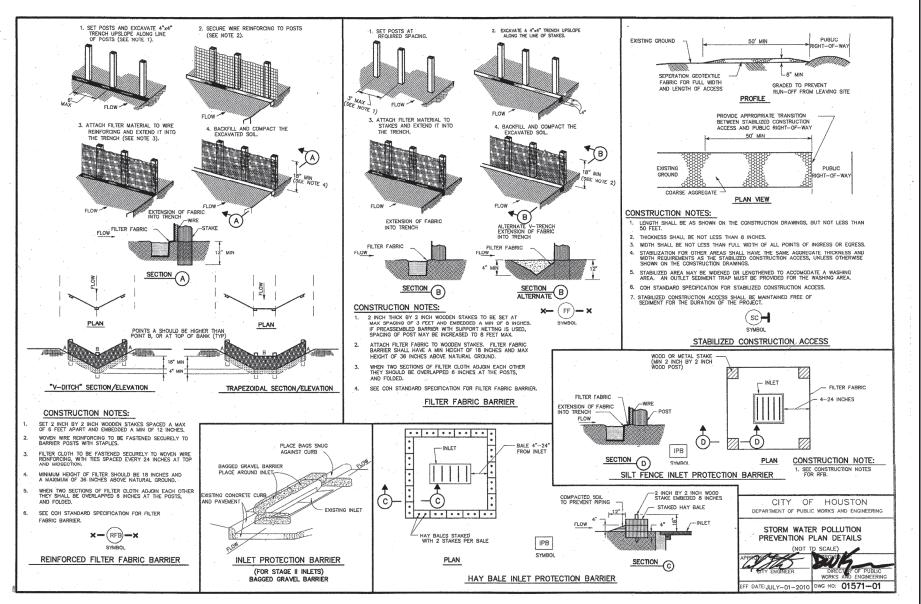
5. PROVIDE AND MAINTAIN SILT FENCE AROUND THE STAGING AREA FOR EROSION CONTROL.

6. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DEMOLITION

- 10. EXCAVATED MATERIAL OR FILL SHALL NOT BE STOCKPILED WITHIN THE 100-YEAR FEMA
- 12. NO AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE.
- 13. SEE SHEET CG 501 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.







NO. DESCRIPTION

FLYOVER CLAYTON PKWY / JFK FLYO BRIDGE RECONSTRUCTION SWPPP DETAILS

PROJECT MGR: JLV EW DRAWN BY: CHECK BY: MS

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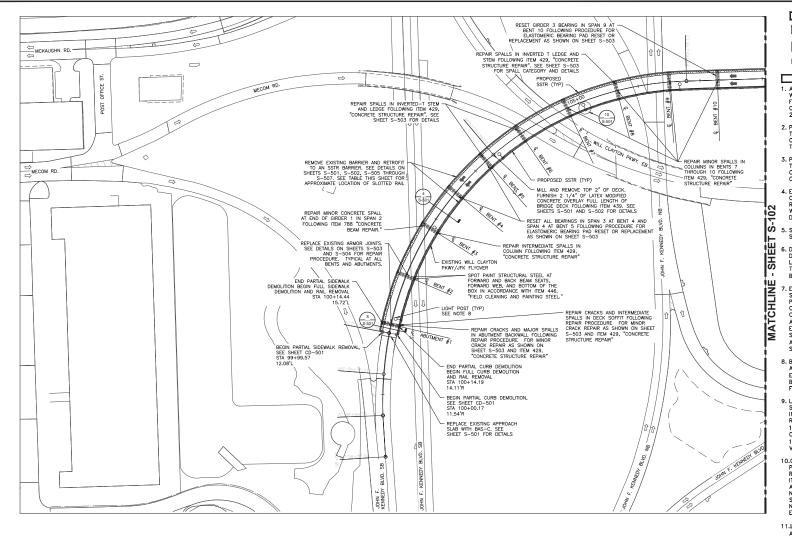
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APPROXIMATE SLOTTED SSTR LOCATIONS						
BEGIN STATION	END STATION	LOCATION				
107+80	113+55	LEFT				
100+00	100+72	RIGHT				
101+45	103+94	RIGHT				
104+79	105+93	RIGHT				
106+50	107+80	RIGHT				

PROPOSED ROADWAY SHOULDER PAVEMENTS

PROPOSED PARAPET

EXISTING SIDEWALK OR CURB TO BE REMOVED

- ALL WORK SHALL BE IN ACCORDANCE WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREET, AND BRIDGES,
- 2. PHASE 1 INCLUDES WORK ON RIGHT TRAFFIC LANE. SEE SHEETS ON CP-102, CP-103 AND CP-104 FOR TRAFFIC CONTROL PLANS.
- 3. PHASE 2 INCLUDES WORK ON LEFT TRAFFIC LANE. SEE SHEETS CP-105, CP-106 AND CP-107 FOR TRAFFIC CONTROL PLANS.
- 4. EXPANSION AND CONTROL OR CONSTRUCTION JOINTS IN PROPOSED RETROFITTED BARRIER WALL TO ALIGN
 WITH EXISTING. SEE SHEET S-505 FOR DETAILS.
- 5. SEE SHEETS S-501 TO S-512 FOR STRUCTURAL DETAILS AND NOTES.
 - 6. DO NOT TO DISTURB BIRD NESTS DURING NESTING SEASON, WHICH LASTS APPROXIMATELY FROM SPRING TO FARLY FALL PER THE MIGRATORY BIRD TREATY ACT OF 1918, (MBTA).
 - 7. EXISTING BRIDGE DRAINS ARE NOT SHOWN FOR CLARITY. THEY SHALL BE PLUGGED WITH GROUT BEFORE OVERLAYING, TYPICAL ON RIGHT SIDE OF THE BRIDGE IN SPANS 1-10 AT APPROXIMATELY EVERY 10'-30', EXCEPT OVER ROADWAYS, AND LEFT SIDE OF THE BRIDGE IN SPANS 10-17 AT APPROXIMATELY EVERY 18'-20'. SEE SHEET S-502 FOR DETAILS.
 - 8. BRIDGE LIGHT POSTS SHOWN ARE APPROXIMATE, LOCATIONS SHALL MATCH EXISTING WITHIN ±1'-0" IN FINAL BRIDGE CONDITION. SEE SHEET S-501 FOR DETAILS.
 - 9. LOCATIONS AND EXTENT OF REPAIRS SHOWN ARE BASED ON SURVEY INFORMATION, BRIDGE INSPECTION
 REPORT BY RIO ENGINEERING, INC ON 12/13/2017, AND BY BRIDGE CONDITION REPORT BY ATKINS ON 12/22/2019. THESE SHALL BE VÉRIFIÉD BY CONTRACTOR.
 - 10.CONTRACTOR SHALL FOLLOW REPAIR PROCEDURES AND TXDOT CONCRETE
 REPAIR MANUAL, JANUARY 2019 ON
 ITEMS IN THIS REHAB PLAN AND ON ANY ADDITIONAL SPALLS OR CRACKS NOT SPECIFIED IN PLANS. IF A SIGNIFICANT REPAIR IS NEEDED AND NOT SHOWN IN PLANS, NOTIFY THE ENGINEER.
 - 11.LOAD RATINGS: HS 21.1 INVENTORY) AND HS 46.5 (OPERATING).





REVISIONS DESCRIPTION DATE BY

HOUSION ARROR SYSTEM

ATKINS

FLYOVE GEORGE BUSH INTERCONTINENTAL AIRPORT (MA CLAYTON PKWY / JFK FL RECONSTRUCTION REHAB PLAN SHEET 1 OF 2

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DESIGNER: CHECK BY: JD

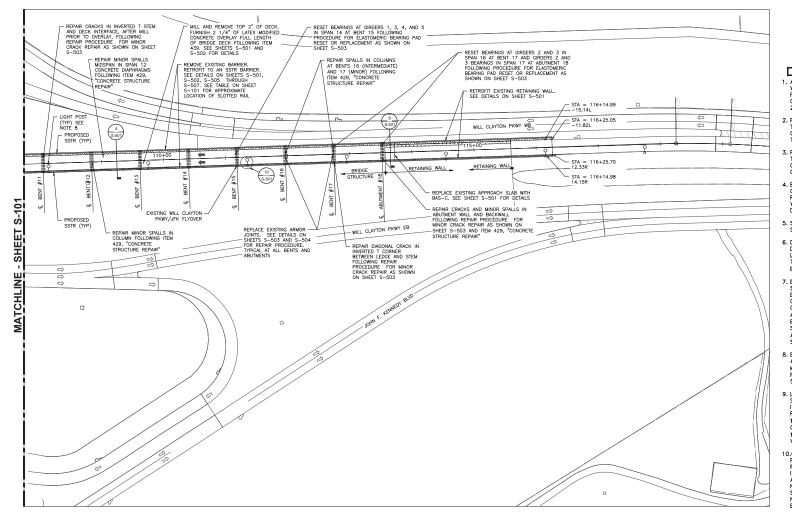
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HOUSTON APPORT SYSTEM

100066296 AJ.P. NO.

C.LP. NO. H.A.S. NO. 931



LEGEND PROPOSED ROADWAY HOUSION ARROR SYSTEM

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREET, AND BRIDGES,
- 2. PHASE 1 INCLUDES WORK ON RIGHT TRAFFIC LANE. SEE SHEETS ON CP-102, CP-103 AND CP-104 FOR TRAFFIC CONTROL PLANS.
- 3. PHASE 2 INCLUDES WORK ON LEFT TRAFFIC LANE. SEE SHEETS CP-105, CP-106 AND CP-107 FOR TRAFFIC CONTROL PLANS.
- 4. EXPANSION AND CONTROL OR CONSTRUCTION JOINTS IN PROPOSED RETROFITTED BARRIER WALL TO ALIGN WITH EXISTING. SEE SHEET S-505 FOR
- 5. SEE SHEETS S-501 TO S-512 FOR STRUCTURAL DETAILS AND NOTES.
- 6. DO NOT TO DISTURB BIRD NESTS DURING NESTING SEASON, WHICH LASTS APPROXIMATELY FROM SPRING TO FARLY FALL PER THE MIGRATORY BIRD TREATY ACT OF 1918, (MBTA).
- 7. EXISTING BRIDGE DRAINS ARE NOT EXISTING BRIDGE DRAINS ARE NOT SHOWN FOR CLARITY. THEY A SHALL BE PLUGGED WITH GROUT BEFORE OVERLAYING. TYPICAL ON RIGHT SIDE OF THE BRIDGE IN SPANS 1-10 AT APPROXIMATELY EVERY 10'-30', EXCEPT OVER ROADWAYS, AND LEFT SIDE OF THE BRIDGE IN SPANS 10-17 AT APPROXIMATELY EVERY 18'-20'. SEE SHEET S-502 FOR DETAILS.
- 8. BRIDGE LIGHT POSTS SHOWN ARE APPROXIMATE. LOCATIONS SHALL
 MATCH EXISTING WITHIN ±1'-0" IN FINAL BRIDGE CONDITION. SEE SHEET S-501 FOR DETAILS.
- 9. LOCATIONS AND EXTENT OF REPAIRS SHOWN ARE BASED ON SURVEY INFORMATION, BRIDGE INSPECTION
 REPORT BY RIO ENGINEERING, INC ON 12/13/2017, AND BY BRIDGE CONDITION REPORT BY ATKINS ON 12/22/2019. THESE SHALL BE VERIFIED BY CONTRACTOR.
- 10.CONTRACTOR SHALL FOLLOW REPAIR PROCEDURES AND TXDOT CONCRETE
 REPAIR MANUAL, JANUARY 2019 ON
 ITEMS IN THIS REHAB PLAN AND ON ANY ADDITIONAL SPALLS OR CRACKS NOT SPECIFIED IN PLANS. IF A SIGNIFICANT REPAIR IS NEEDED AND NOT SHOWN IN PLANS, NOTIFY THE ENGINEER.
- 11.LOAD RATINGS: HS 21.1 (INVENTORY) AND HS 46.5 (OPERATING).



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SHOULDER PAVEMENTS PROPOSED PARAPET **ATKINS** EXISTING SIDEWALK AND CURB TO BE REMOVED

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GEORGE BUSH INTERCONTINENTAL AIRPORT (IAN RECONSTRUCTION REHAB PLAN SHET 2 OF 2

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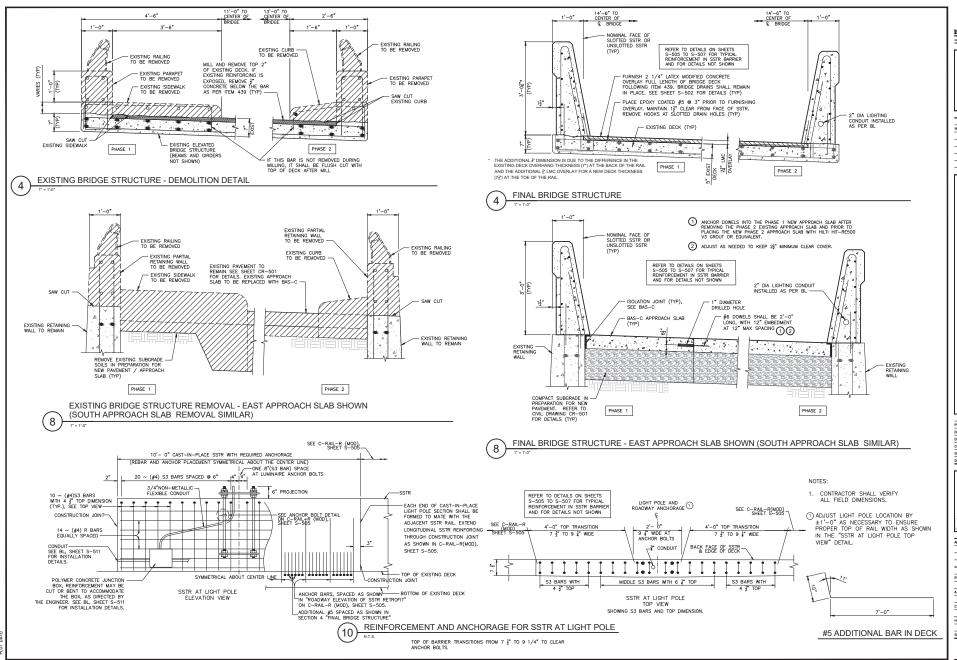
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HOUSTON APPORT SYSTEM

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C.LP. NO. H.A.S. NO. 931





LOCAL OFFICE:
200 WESTLAKE PARK BLVD.,
STE. 1100
HOUSTON. TX 77079
TEL: (713) 576-8500
ATKINS NORTH
AMERICA PE FIRM REG.

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GEORGE BUSH INTERCONTINENTAL AIRPORT (AN)
CLAYTON PKWY / JFK FLYOVEI
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DESIGNER: TS
DRAWN BY: DN
CHECK BY: JD

SCALE: DATE: 06/26/2020

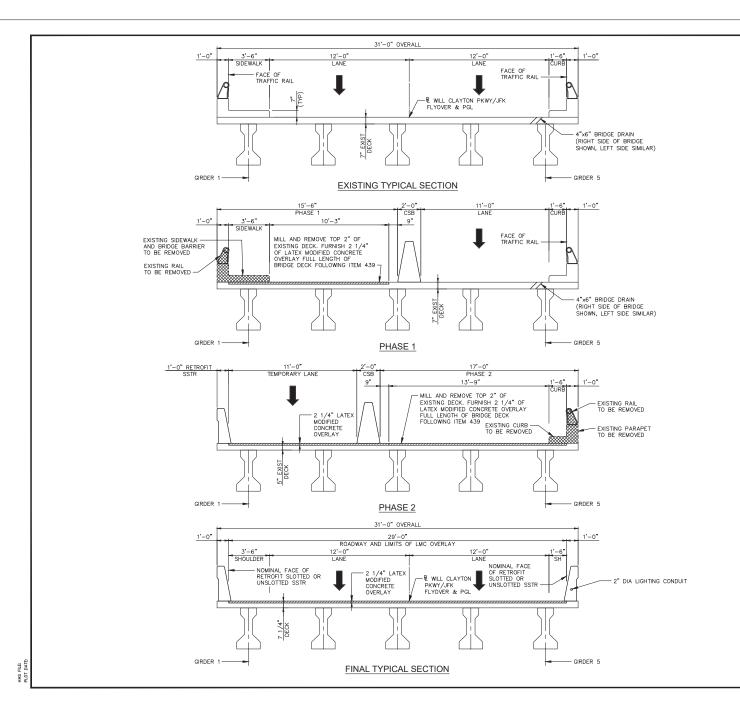


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HOUSTON APPORT SYSTEM

PROJECT NO. 100066296 AJ.P. NO.

C.LP. NO. H.A.S. NO. 931



NOTES:

- LATEX MODIFIED CONCRETE OVERLAY SHALL BE CLASS LMC WITH f'c = 4,000 PSI.
 - A) CARE SHALL BE TAKEN NOT TO CUT OR DAMAGE BARS IN THE APPROACH SLAB, INVERTED T, OR BRIDGE DECK. BARS THAT ARE DAMAGED OR BROKEN DURING MILLING, SHALL BE REPLACED USING DRILLING AND DOWELING.
 - B) DRILL AND EPOXY NOTE:
 EPOXY FOR EMBEDDED REINFORCEMENT SHALL CONFORM
 TO CURRENT TXOOT DMS—6100, "EPOXY AND ADHESIVES,"
 TYPE III DOWEL AND TIE BAR ADHESIVE. ALL EPOXIES
 AND ADHESIVES SHALL BE APPLIED PER THE
 MANUFACTURERS INSTRUCTIONS. PROVIDE WINHIMUM
 EMBEDMENT PER MANUFACTURER AS REQUIRED TO
 DEVELOP FULL TENSILE STRENGTH OF BAR OR WINHIMUM
 AS SHOWN, WHICHEVER IS GREATER. THIS PROCEDURE
 SHOKEN DURING APPROACH SLAB, BACKWALL
 INVERTIED T. OR ROIDOG DECK REMOVAL, INCLUDING BOTH
 TOP AND BOTTOM ROWS OF BARS IN THE APPROACH
 SLAB AND BRIDGE DECK.
- SEE CSB (8)-10 ON SHEET CP-503 FOR CONCRETE SAFETY BARRIER DETAILS.
- 3. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS.

CONSTRUCTION SEQUENCE:

- ADJUST TRAFFIC PER TCP.
- 2. REMOVE EXISTING SIDEWALK/CURB, PARAPET, AND RAILING.
- 3. MILL AND REMOVE EXISTING DECK AS SHOWN IN PHASE 1.
 REMOVAL SHALL LEAVE ROUGHENED SURFACE FOR THE LMC
- RESET THE BEARINGS AT LOCATIONS SHOWN ON S-101 AND S-102.
- REMOVE AND RECONSTRUCT THE ARMOR JOINTS AT ABUTMENT AND ALL BENTS AS SHOWN IN SHEET S-503
- 6. PLUG EXISTING DRAIN HOLES IN DECK WITH GROUT PRIOR TO PLACING LMC OVERLAY.
- PLACE LMC OVERLAY TO THE LIMITS SHOWN PER ITEM 439 AND CONSTRUCT RETROFIT SSTR.
- 8. MOVE TRAFFIC OVER TO THE NEWLY CONSTRUCTED DECK.
- 9. REPEAT STEPS 2 TO 6 AS SHOWN IN PHASE 2 CONSTRUCTION.



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COME BUSH INTERCONTINENTAL AIRPORT (AM)

LAYTON PKWY / JFK FLYOVE

RECONSTRUCTION

TYPICAL SECTION

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PROJECT MOR: JLV
DESIGNER: TS
DRAWN BY: DN
CHECK BY: JD

SCALE: 06/26/2020



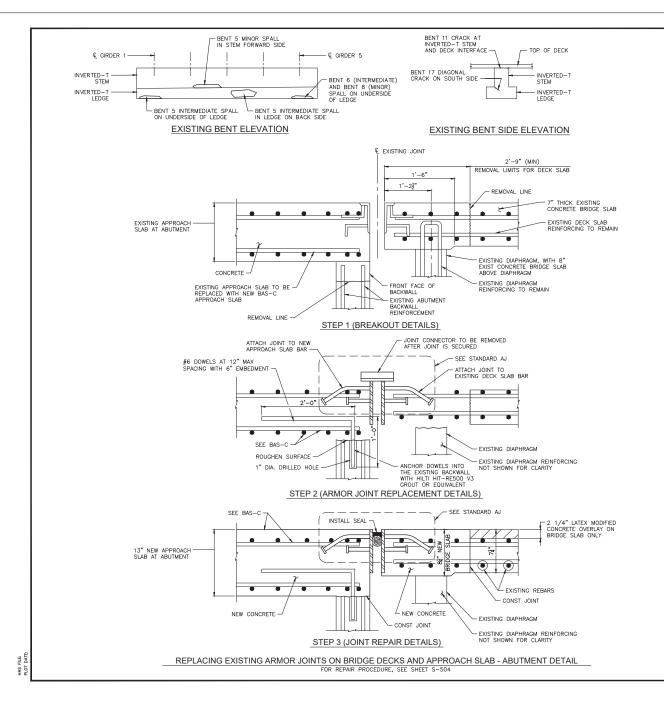
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PROJECT NO. 100066296 AJ.P. NO.

C.I.P. NO.

H.A.S. NO. 931



MATERIALS

 MATERIALS SHALL CONFORM TO CURRENT TXDOT DEPARTMENTAL MATERIALS SPECIFICATIONS (DMS) AND BE LISTED ON THE CURRENT MATERIAL PRODUCERS LIST (MPL). SAMPLING AND TESTING OF MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE DMS AND 2014 TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, AND THE TXDOT CONCRETE REPAIR MANUAL JANUARY 2019.

ELASTOMERIC BEARING PAD RESET & REPLACEMENT

RESET OR REMOVE AND REPLACE EXISTING ELASTOMERIC BEARINGS IN ACCORDANCE WITH THE PLANS, TXDOT STANDARD SPECIFICATIONS, AND THE FOLLOWING ITEMS:

- RESET PER THESE STEPS, IF REPLACEMENT IS DEEMED NECESSARY, REPLACEMENT OF ELASTOMERIC BEARING PADS SHALL BE PERFORMED IN ACCORDANCE WITH TXDOT SPECIAL SPECIFICATION 4002, "REPLACING ELASTOMERIC BEARING PADS." SEE SHEET S-512 FOR BEARING DETAILS.
- RAISING EXISTING STRUCTURES SHALL BE DONE IN ACCORDANCE WITH TXDOT ITEM 495, "RAISING EXISTING STRUCTURES." TRAFFIC IS PROHIBITED ON THE SPANS BEING RAISED UNTIL THE STRUCTURE IS SUPPORTED BY THE FINAL SUPPORTS.
- THE CONTRACTOR SHALL SUBMIT A WORK PLAN BEARING THE SEAL OF A REGISTERED PROFESSIONAL BEGINER IN ORDER TO RAISE THE STRUCTURE. APPROVAL OF THE PLAN IS REQUIRED BEFORE BEGINNING WORK.
- 4. ANY MODIFICATION TO THE BRIDGE OR APPURTENANCES SHALL BE APPROVED BY THE ENGINEER. MODIFICATION PROPOSALS SHALL INCLUDE CONDITION AFTER COMPLETION OF THE PROJECT.
- 5. ONCE THE SUPERSTRUCTURE IS FULLY SUPPORTED BY JACKS, ANY BEARING PAD THAT IS TO BE RESET IS THALL BE RESET TO ITS ORIGINAL LOCATION. ANY BEARING THAT IS TO BE REPLACED SHALL BE REPLACED IN KIND. IF, IN THE FIELD, A BEARING THAT IS TO BE RESET APPEARS TO HAVE FALLED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, AND THE BEARING PAD SHALL BE REPLACED. ELASTOWERIC BEARING RESETTING OR REPLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH TXDOT ITEM 434, "ELASTOMERIC BRIDGE BEARINGS."
- ANY FILL USED TO LEVEL JACKING TOWERS AND JACKING PADS SHALL BE REMOVED AFTER COMPLETION OF THIS ITEM.

MINOR CRACK REPAIR

- 1. FOR CRACKS THAT ARE LESS THAN $\frac{1}{8}$ ", SURFACE SEALANT WILL BE USED.
- FOR CRACKS FROM ½" TO ½", PRESSURE INJECT CRACKS WITH A MATERIAL MEETING THE REQUIREMENTS OF DMS—6100 TYPE IX. THE PRODUCT SHALL BE CHOSEN FROM THE PRE—APPROVED PRODUCT LIST.
- 3. FOR CRACKS GREATER THAN \(\frac{1}{2} \) BUT LESS THAN \(\frac{1}{2} \) PRESSURE INJECT CRACKS
 WITH A MATERIAL MEETING THE REQUIREMENTS OF DMS-6100 TYPE IX. A FILLER
 (FINE AGRECATE) MAY BE ADDED FOR CRACKS OF THIS SIZE, THE PRODUCT
 SHALL BE CHOSEN FROM THE PRE-APPROVED PRODUCT LIST.
- EPOXY INJECTION SHALL BE IN ACCORDANCE WITH TXDOT ITEM 780, "EPOXY INJECTION."
- 5. FOR CRACKS LARGER THAN $\mbox{\ensuremath{3}}\mbox{\ensuremath{7}}\mbox{\ensuremath{7}}$, follow procedures specified in item 780, "Concrete crack repair".



GEORGE BUSH INTERCONTINENTAL A HOUSTON, TX

ATKINS
LOCAL OFFICE:
200 WESTLAKE PARK BLVD.
STE. 1100
HOUSTON, TX 77079
TEL: (713) 576-8500
ATKINS NORTH
AMERICA PE FIRM REG.
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EORGE BUSH INTERCONTINENTAL AIRPORT (1841)
SLAYTON PKWY / JFK FLYOVEF
RECONSTRUCTION
REHAB DETAILS
SHEET 1 OF 2

PROJECT MGR: JLV
DESIGNER: TS
DRAWN BY: DN

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CHECK BY: JD

SCALE:

DATE: 06/26/2020

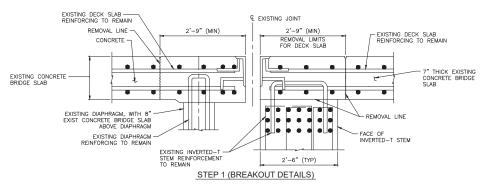


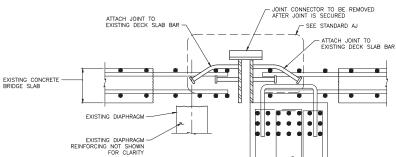
APPROVED BY:

SPECTOR HOUSTON APPORT SYSTEM

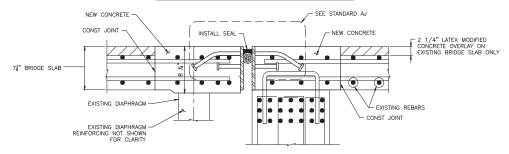
PROJECT NO. 100066296 AJ.P. NO.

C.LP. NO. H.A.S. NO. 931





STEP 2 (ARMOR JOINT REPLACEMENT DETAILS)



STEP 3 (JOINT REPAIR DETAILS)

REPLACING EXISTING ARMOR JOINTS ON BRIDGE DECKS AND APPROACH SLAB - INVERTED-T DETAIL

REPLACE EXISTING ARMOR JOINTS ON BRIDGE DECKS AND APPROACH SLABS

SEE SHEET S-502 FOR CONSTRUCTION SEQUENCE

- 1. EXISTING EXPANSION JOINTS SHALL BE REMOVED AND REPLACED. THE JOINTS SHALL BE REPLACED WITH "ARMOR JOINT (SEALED)". SEE STANDARD AJ FOR DETAILS. ARMOR JOINT (SEALED) SHALL CONFORM TO ITEM 454, "BRIDGE
- 2. STEP 1: REMOVE EXISTING APPROACH SLAB. REMOVE EXISTING BACKWALL (IF PRESENT) TO THE DEPTH OF THE BASE OF THE NEW APPROACH SLAB. REMOVE EXISTING DECK SLAB FOR A DISTANCE 2"-0" FROM THE PROPOSED JOINT OPENING. CONTRACTOR TO SCORE THE BREAKLINE AND USE CARE IN DEMOLITION TO AVOID DAMAGING EXISTING CONCRETE TO REMAIN IN PLACE. CARE SHOULD BE TAKEN NOT TO DAMAGE THE REMAINING REINFORCEMENT DURING REMOVAL OF THE DESIGNATED PORTION OF THE EXISTING STRUCTURE. REMOVAL OF EXISTING APPROACH SLAB, BACKWALL, AND DECK SLAB SHALL BE IN ACCORDANCE WITH ITEM 430, "EXTENDING CONCRETE STRUCTURES."
- 3. STEP 2: CLEAN THE SURFACE OF THE EXPOSED REINFORCING IN THE INVERTED—T AND DECK SLAB IN ACCORDANCE WITH ITEM 429, "CONCRETE STRUCTURE REPAIR," BARS COMPLETELY REMOVED IN THE INVERTED—T AND DECK SLAB REMOVAL SHALL BE REPLACED WITH THE SAME KIND OF REBARS, CUT BARS IN BACKWALL TO CUT LINE SHOWN, PLACE ANY ADDITIONAL REPINFORCING REQUIRED. DRILL AND GROUT THE DOWELS AS SHOWN IN THE ABUTMENT BACKWALL DETAIL FOLLOWING NOTE 6. ADDITIONAL REHINFORCING (IF REQUIRED) SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCING (IF REQUIRED) SHALL BETTED—T, AND RECYCLAD SECRIFIE ADDITIONAL REMINIOR OINT ASSETUTED IN IN PROTECTION. AND DECK SLAB. SECURE ARMOR JOINT ASSEMBLY IN PLACE.
- 4. STEP 3: FORM AND PLACE CONCRETE AROUND ARMOR JOINT ASSEMBLY AS STEP 3: FORM AND PLACE CONCRETE AROUND ARMOR JOINT ASSEMBLY AS SHOWN AND IN ACCORDANCE WITH ITEM 420, "CONCRETE STRUCTURES." REPLACE EXISTING APPROACH SLAB WITH "BAS-C" APPROACH SLAB. CONCRETE FOR THE BRIDGE DECK SHALL BE CLASS S. CARE SHALL BE TAKEN NOT TO CUT OR DAMAGE BARS IN INVERTED-T AND BRIDGE DECK. BARS THAT ARE DAMAGED OR BROKEN DURING BACKWALL, INVERTED-T, OR BRIDGE DECK REMOVAL SHALL BE REPLACED USING DRILLING AND DOWELLING.
- 5. DRILL AND EXPOXY NOTE: EPOXY FOR EMBEDDED REINFORCEMENT SHALL CONFORM TO CURRENT TXDOT DMS-6100, "EPOXY AND ADHESIVES," TYPE III-DOWEL AND TIE BAR ADHESIVE. ALL EPOXIES AND ADHESIVES SHALL BE APPLIED PER THE MANUFACTURER'S ALL EPUXES AND ADHESIVES SHALL BE APPLIED FER THE MANDFACTURER'S INSTRUCTIONS. PROVIDE WININUM EMBEDMENT PER MANUFACTURER AS REQUIRED TO DEVELOP FULL TENSILE STRENOTH OF BAR OR MINIMUM AS SHOWN, WHICHEVER IS GREATER. THIS PROCEDURE SHALL APPLY TO ALL BARS THAT ARE DAMAGED OR BROKEN DURING INVERTED—T OR BRIDGE DECK REMOVAL, INCLUDING BOTH TOP AND BOTTOM ROWS OF BARS IN THE BRIDGE DECK AND TO THE DOWELS CONNECTING THE BACKWALL TO THE NEW APPROACH SLAB.
- 6. ALL NEW CLASS C CONCRETE SHALL HAVE 1'c=3,600 PSI.
 ALL NEW CLASS S CONCRETE SHALL HAVE 1'c=4,000 PSI.
 LATEX MODIFIED CONCRETE OVERLAY STRENGTH SHALL BE CLASS LMC WITH
- CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY COLLATERAL DAMAGE TO ANY EXISTING CONCRETE OR OTHER ELEMENT OR COMPONENT.



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FLYOVE GEORGE BUSH INTERCONTINENTAL ARROORT (IMI RECONSTRUCTION REHAB DETAILS SHEET 2 OF 2

PROJECT MGR:	JLV
DESIGNER:	TS
DRAWN BY:	DN
CHECK BY:	JD

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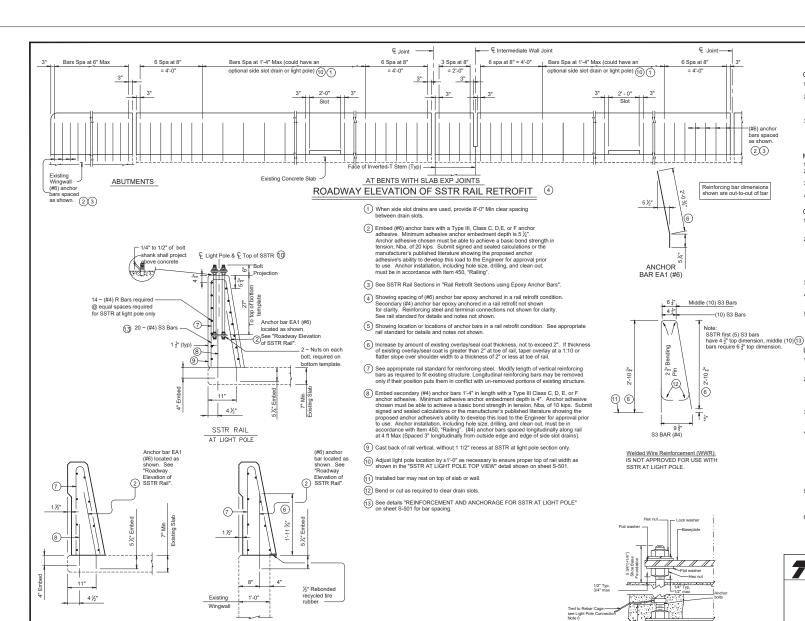


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H.A.S. NO. 931

C.LP. NO.



RAIL RETROFIT SECTIONS (5) **USING EPOXY ANCHOR BARS**

ON WINGWALLS AND RETAINING WALLS



- 1. Field verify dimensions before commencing work and ordering
- materials.

 2. By adding additional anchorage, welding can be performed at a minimum spacing of 3 ft between the cage and additional anchorage. By satisfying additional anchorage requirements slip forming is allowed. Do not weld to the required anchorage. 3. Test adhesive anchors in accordance with liter 450.33, "Tests".
- Test 3 anchors per 100 anchors installed. Perform corrective measures to provide adequate capacity if any of the tests do not meet the required test load. Repair damage from testing as directed.

MATERIAL NOTES:

1. All concrete shall be Class C.

(#6) anchor bars spaced as shown

23

- Provide Grade 60 reinforcing steel. Welded wire reinforcement shall not be used at SSTR at Light Pole.
 Epoxy coat or galvanize all reinforcing steel if required
- (#6) and (#4) anchor bars used for the epoxied anchorage
- system must not be epoxy coated within the required embedme

GENERAL NOTES:

- Use of these retrofit details will result in a railing acceptable for Test Level 3 regardless of the higher ratings that may be indicated on the rail standard.
- Rail anchorage details shown on this guide may require modification for select structure types. See appropriate details elsewhere in plans for these modifications. Not all possible combinations of existing railing, curbs, parapets etc. have been shown on this sheet. Other combinations and reinforcement arrangements are permissible if they meet the same strength requirements as indicated on this guide
- Do not remove any part of a curb until it has been evaluated to not be a load-carrying structural component.
 Removal and replacement of backfill, subgrade, and asphalt or concrete payement necessary for this installation is considered
- subsidiary to the retrofit railing.
 Payment for a rail retrofit will be as per Item 451, "Retrofit Railing", by the type of the rail retrofit. All details shown herein are subsidiary to rail retrofit. Examples are "Retrofit Rail (Ty T551)", "Retrofit Rail (Ty SSTR)", etc.

LIGHT POLE CONNECTION GENERAL NOTES

- Anchor bolts, junction box, non-metallic flexible conduit, and bonding to steel shall not be paid for directly, but will be
- considered subsidiary to the various bid items.
 For proper installation and material requirements for the anchor bolts and light pole, see Traffic Engineering RIP (4)-19 standard details "Concrete Traffic Barrier Base Baseplate" and "Concrete Traffic Barrier Base Anchor Bolt Assembly" on sheet S-513.
- 3. Junction boxes shall be polymer concrete, and shall be installed as per BL on sheet S-511. For details and material requirements on barrier junction box, see DMS-11030.
- Install 12 AWG stranded conductors from load side of fused breakaway connector to luminaire. Fused breakaway connectors shall be installed as required on Traffic Engineering RID Sheets. Typically fused breakaway connectors are installed in the barrier junction box adjacent to each light pole. If fused breakaway connectors are installed in the pole's handhole, increase the size of the 3/4" flexible non-metallic conduit according to the NEC as needed to accomodate the branch circuit conductors.
- Anchor bolts and their assemblies shall be in accordance with Item 449, "Anchor Bolts" High-Strength Steel or Alloy Steel. Galvanization requirements for anchor bolts are shown on RIF
- Bond anchor bolt to rebar cage with #6 bare stranded copper conductor. Use listed mechanical connectors rated for embedment in concrete. The bonded steel in the foundation creates a concrete encased grounding electrode which replaces the ground rod.



ANCHOR BOLT DETAIL Rip(4)-19, Sheet S-513

for additional Details

RETROFIT GUIDE FOR CONCRETE RAILS

SSTR

C-RAIL-R (MOD)

	DN: TxD	OT	cx: TxDOT	DW:	JTR		ск: ЈМН
C)TxDOT September_2019	CONT	SECT	JOB		HIGHWAY		
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RETROFIT

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DESIGNER:

CHECK BY JD SCALE: 06/26/2020



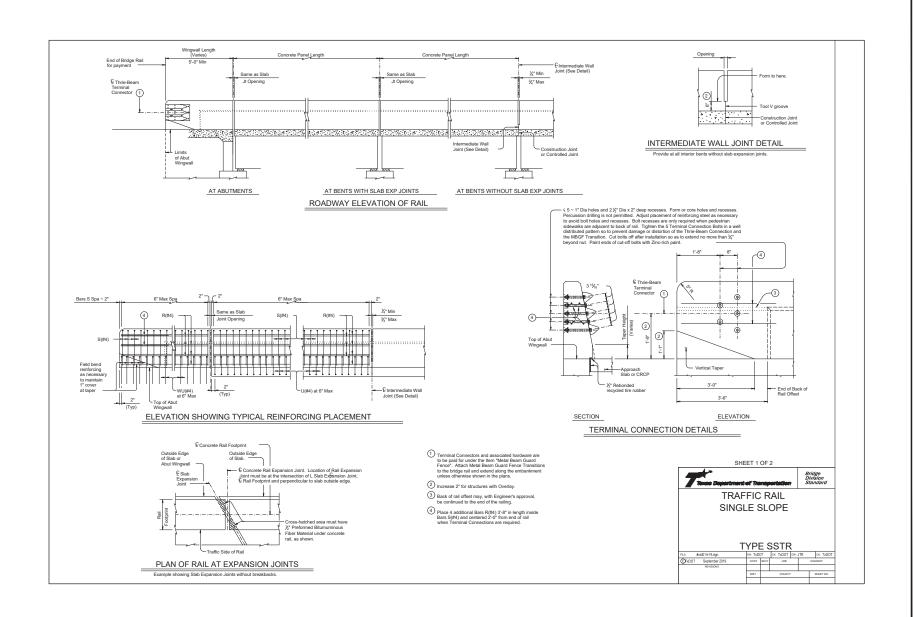
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C.I.P. NO.

H.A.S. NO. 93

S-505

SSTR RAIL ON CONCRETE SLABS





LOGAL OFFICE: 200 WESTLAKE PARK BLVD., STE. 1100 HOUSTON, TX. 77079 TEI: 1/21 ETS BEFO

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CLAYTON PKWY / JFK FLYOVE
RECONSTRUCTION
TYPE SSTR
SHEET 1 OF 2

PROJECT MOR: JLV
DESIGNER: TS
DRAWN 8Y: DN
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SCALE:



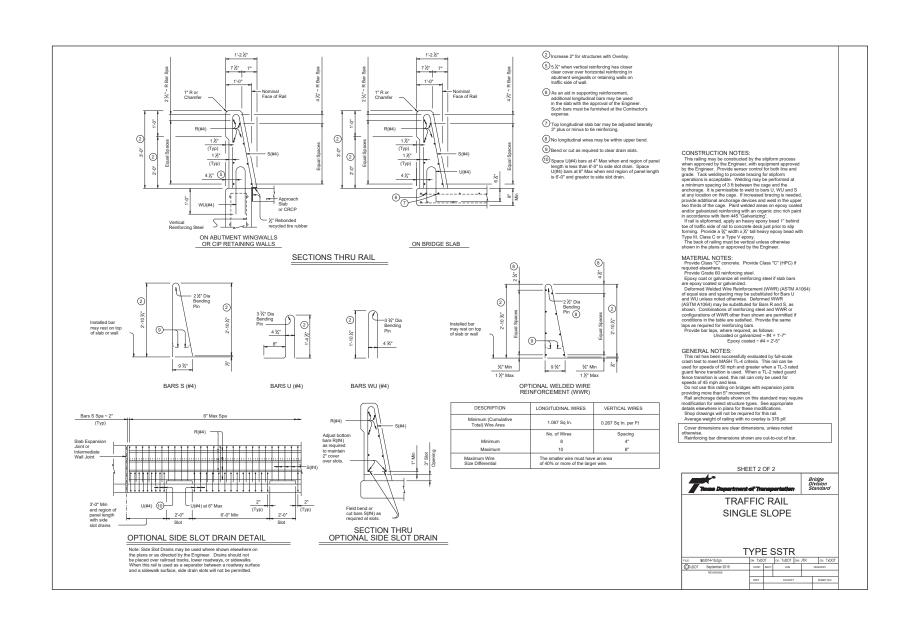
APPROVED BY:

DIRECTOR HOUSTON ARMONT SYSTEM

PROJECT NO. 100066296 AJ.P. NO.

C.LP. NO.

H.A.S. NO. 931



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REVISIONS DESCRIPTION DATE BY

CLAYTON PKWY / JFK FLYOVE
RECONSTRUCTION
TYPE SSTR
SHEET 2 OF 2

DESIGNER: DRAWN BY: CHECK BY: JD

SCALE: 06/26/2020

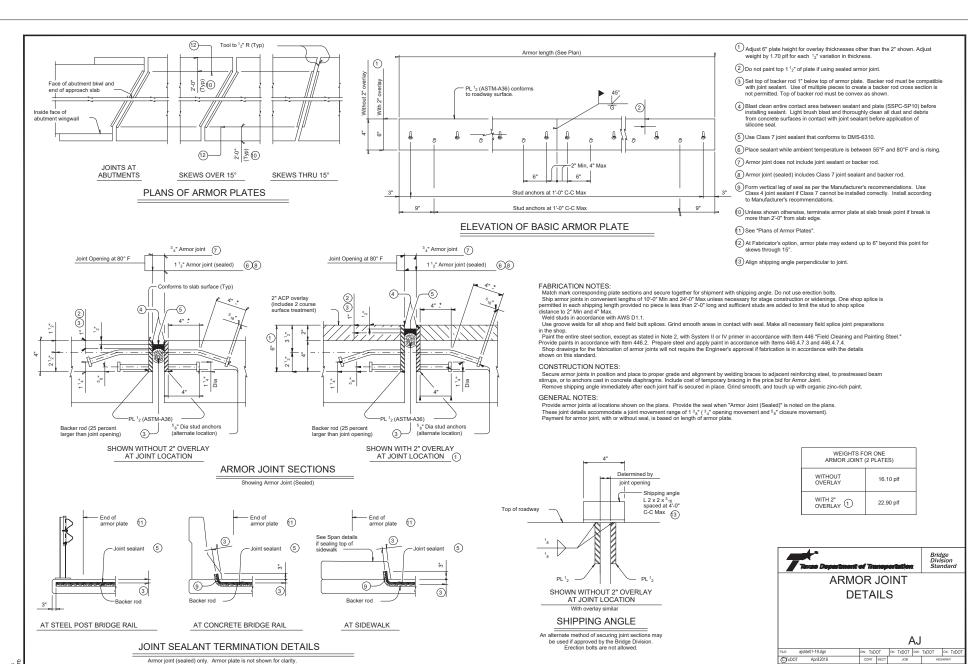


HOUSTON ARMORT SYSTEM

PROJECT NO. 100066296 AJ.P. NO.

H.A.S. NO. 931

C.I.P. NO.



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GEORGE BUSH INTERCONTINENTAL AIRPORT (JAH)
CLAYTON PKWY / JFK FLYOVEI
RECONSTRUCTION

DESIGNER: DRAWN BY CHECK BY: JD

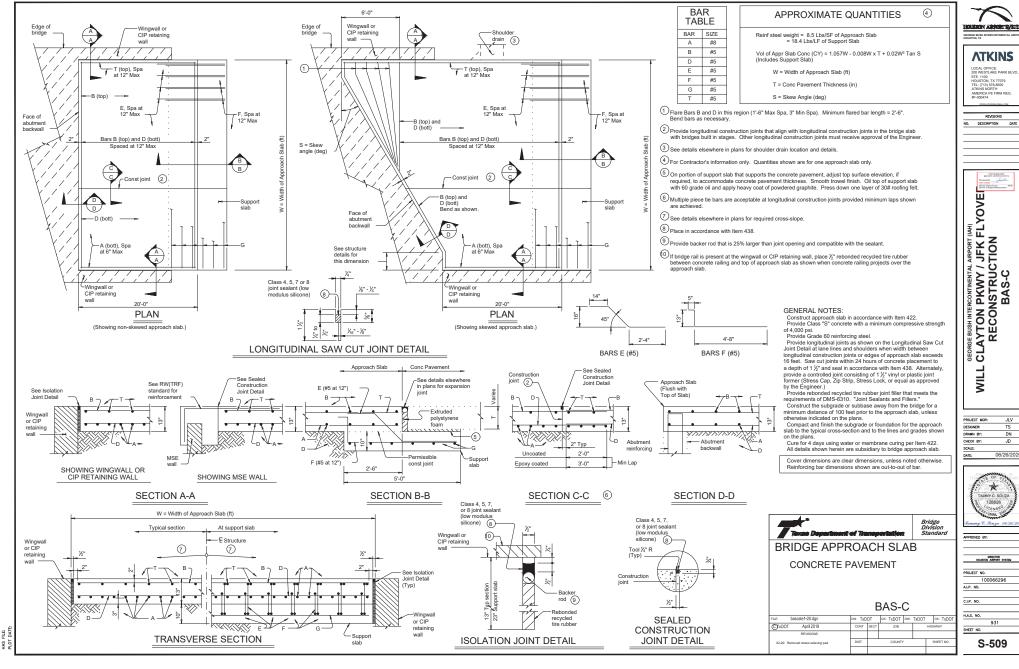
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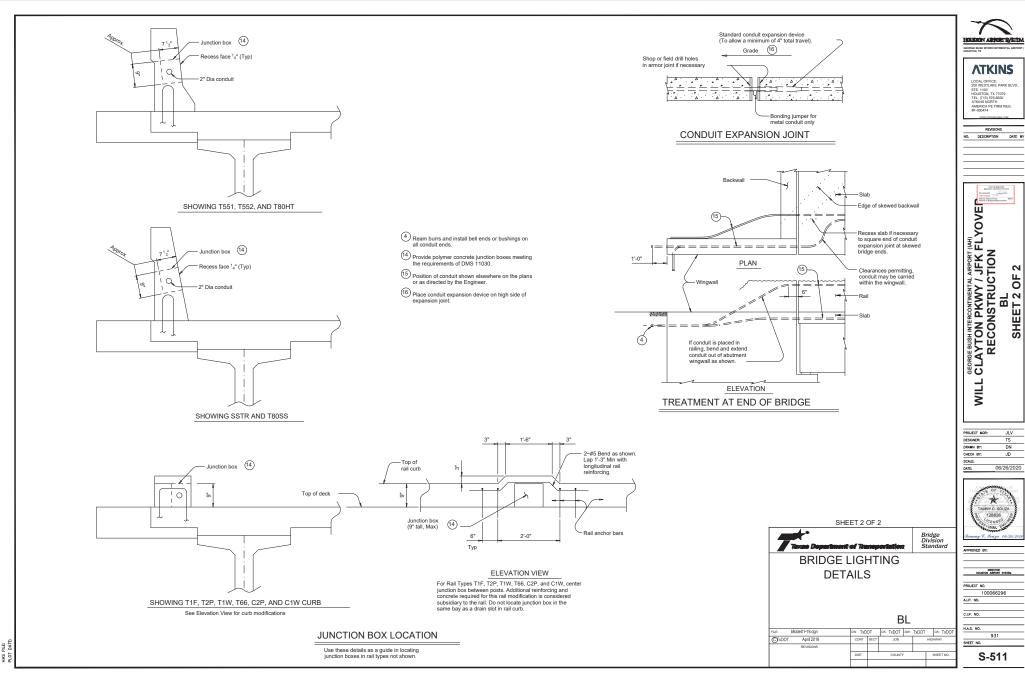
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931



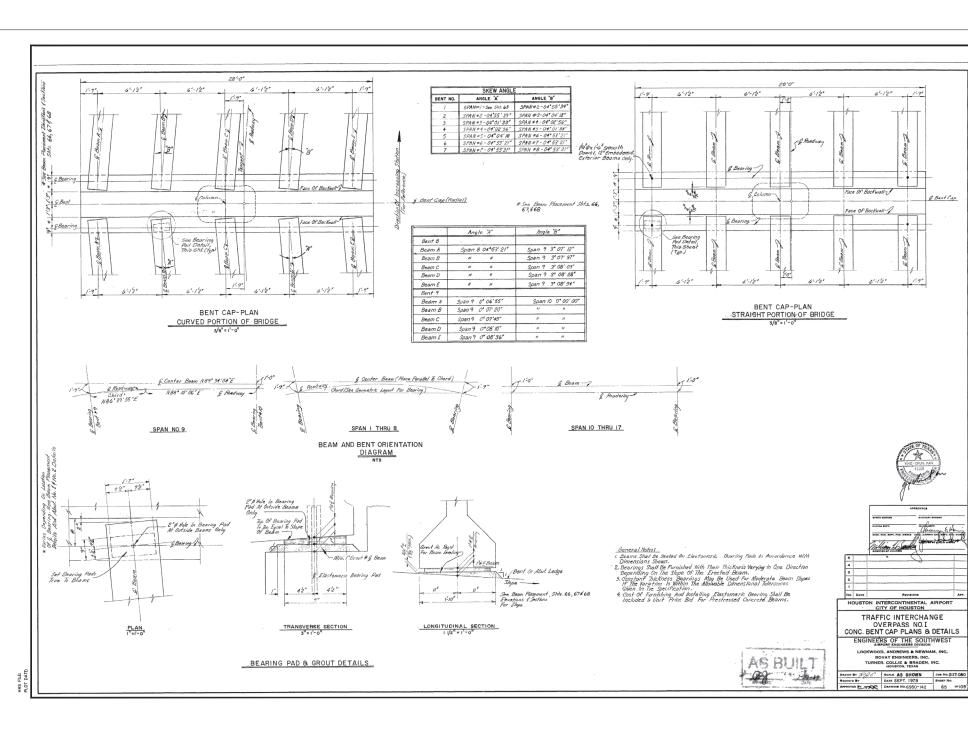
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GEORGE BUSH INTERCONTINENTAL AIRPORT (1941)
CLAYTON PKWY / JFK FLYOVET
RECONSTRUCTION
BEARING DETAILS

DESIGNER: DRAWN BY: CHECK BY: JD

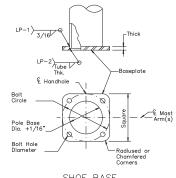
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PROJECT NO. 100066296 AJ.P. NO.

C.I.P. NO. H.A.S. NO.

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SHOE BASE BASEPLATE

	LATE TA	ABLE		
MOUNTING HEIGHTS (nominal)	BOLT CIRCLE	SQUARE	THICK	BOLT HOLE DIAMETER
20'- 39'	13"	13"	1 1/4"	1 1/4"
40'	15"	15"	1 1/4"	1 1/2"
50'	15"	15"	1 1/2"	1 1/2"

Anchor Bolt (A.B.) Dia Minimum 1/4" Thick

Template

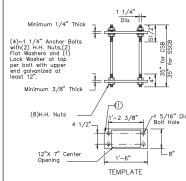
Minimum 3/8" Thick

(4) Anchor Bolts with (2) H.H. Nuts,(2) Flat Washers and (1) Lock Washer at top per bolt with upper end galvanized at least 11".

(8)H.H. Nuts 1

Center Hole

2x Anchor Bolt Diameter —

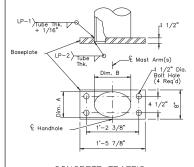


SHOE BASE ANCHOR BOLT ASSEMBLY

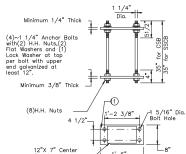
Bolt Circle Diameter

Bolt Hole Dia.

SHOE BA	SHOE BASE ANCHOR BOLT ASSEMBLY TABLE								
MOUNTING HEIGHTS (nominal)	A.B. Dia.	BOLT CIRCLE DIAMETER	CTR. HOLE DIAMETER	BOLT HOLE DIAMETER					
20'-39'	1"	13"	11"	1 1/16"					
40'-50' 1	1/4"	15"	12 1/2"	1 5/16"					

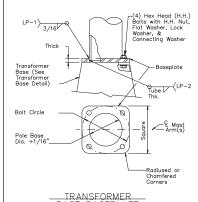


CONCRETE TRAFFIC BARRIER BASE BASEPLATE TABLE								
	RAZE RAZEN	TATE TABL	E.					
MOUNTING HEIGHTS POLE DIA. DIM. A DIM. B								
28'- 38'	9"	7"+_1/4"	10"+ _1/4"					
48'	10 1/2"	7"+_1/4"	13"+ _1/4"					



CONCRETE TRAFFIC BARRIER BASE ANCHOR BOLT ASSEMBLY

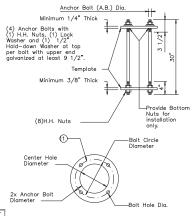
TRANSFORMER BASE ANCHOR BOLT ASSEMBLY TABLE									
MOUNTING HEIGHTS (nominal)	A.B. Dia.	BOLT CIRCLE DIAMETER	CTR. HOLE DIAMETER	BOLT HOLE DIAMETER					
20'- 39'	1"	14"	12"	1 1/16"					
40'- 50'	1 1/4"	17 1/4"	14 3/4"	1 5/16"					



BASE	BASEPLATE	

MOUNTING HEIGHTS (nominal)	BOLT CIRCLE	SQUARE	THICK	CONNECTING BOLT DIA.	BOLT HOLE DIAMETER	TRANSFOMER BASE TYPE
20'- 39'	13"	13"	1 1/4"	1"	1 1/4"	A
40'	15"	15**	1 1/4"	1 1/4"	1 1/2"	В
50'	15"	15"	1 1/2"	1 1/4"	1 1/2"	В

TRANSFORMER BASE BASEPLATE TABLE



TRANSFORMER BASE ANCHOR BOLT ASSEMBLY

TRANSFORMER BASE TABLE TOP B.C. BTM. B.C. 14"

Lock Washer

TYPE

Α

В 15" 17 1/4"

1/2" thk Hold-down

Connecting

Top Bolt Circle (B.C.) -

13"

II J

DETAIL B

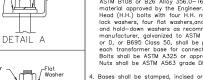
TOP PLAN

-Bottom

Circle (B.C.)

BOTTOM PLAN

the design moment.

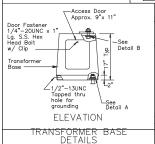


4. Bases shall be stamped, incised or by other approved permanent means, marked to show fabricator's name or logo, and model number. Such information shall be placed in a readily seen location, inside or outside the base, but shall not be placed on the door.

material approved by the Engineer and shall be attached with stainless steel screws or be attached with stainless steel screws or bolts. Transformer bases shall be cleaned by grit blast cleaning after heat treatment. Certification by the manufacturer of heat treatment shall be furnished with transformer bases. The certification shall show the metal alloy and temper and that the base meets those requirements, chemical and physical. The certification shall also show the material ASTM specification. Transformer bases shall be cast with a removable tab bar for material testing. Some bars may have been removed by the manufacturer for testing.

- aalvanized.
- (2) Pole diameter before ovalized.

ANCHOR BOLT FABRICATION TOLERANCES TABLE						
TOLLINANCES 17	TOLLIVANOLS TABLE					
DIMENSION	TOLERANCE					
Length	+_1/2"					
Threaded length	+_1/2"					
Galvanized length (if required)	- 1/4"					



SHEET 4 OF 4 Traffic Safety Division Standard ROADWAY

ILLUMINATION **POLES**

RIP(4)-19								
DN:		ск:	DW:	CK:				
CONT	SECT	708		HIGHWAY				
DIST	HST COUNTY SHEET NO			SHEET NO.				
	DN: CONT	DN: CONT SECT	DN: CK: CONT SECT JOB	DN: CK: DW:				

GENERAL NOTES:

1. For mounting heights between those shown in the table, use the values in the table for the larger mounting height.

 All breakaway bases shall meet the breakaway requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Lumingires and Traffic Signals, 6th Edition (2013) and Interim Revisions thereto, and shall have been tested by FHWA-approved methods. All bases shall have been structurally tested to resist 150% of

 Transformer bases shall be cast from aluminum, ASTM B108 or B26 Alloy 356.0—T6, or other material approved by the Engineer. Four Hex Head (H.H.) bolts with four H.H. nuts, four lock washers, four flat washers, and connecting and hold-down washers as recommended by the manufacturer, galvanized to ASTM A153 Class C or D, or B695 Class 50, shall be provided with each transformer base for connecting the pole. Bolts shall be ASTM A325 or approved equal. Nuts shall be ASTM A563 grade DH galvanized.

Doors for transformer bases shall be made of plastic, fiberglass or other non-metallic

NOTES:

(1) Anchor Bolt Templates do not need to be

JD

06/26/2020

DESIGNER:

DRAWN BY:

CHECK BY:

SCALE:

HOUSING ARRORS SYSTEM

ATKINS

REVISIONS DESCRIPTION

GEORGE BUSH INTERCONTINENTAL AIRPORT (JAH)
CLAYTON PKWY / JFK FLYOVE)
RECONSTRUCTION
RIP(4)-19

DATE BY

HOUSTON APPORT SYSTEM 100066296

AJ.P. NO. C.I.P. NO. H.A.S. NO. 931