



IAH-TERMINAL - SECURITY EXIT LANE

SECURE EXIT LANE BREACH CONTROL

GEORGE BUSH IAH

3500 NORTH TERMINAL RD.
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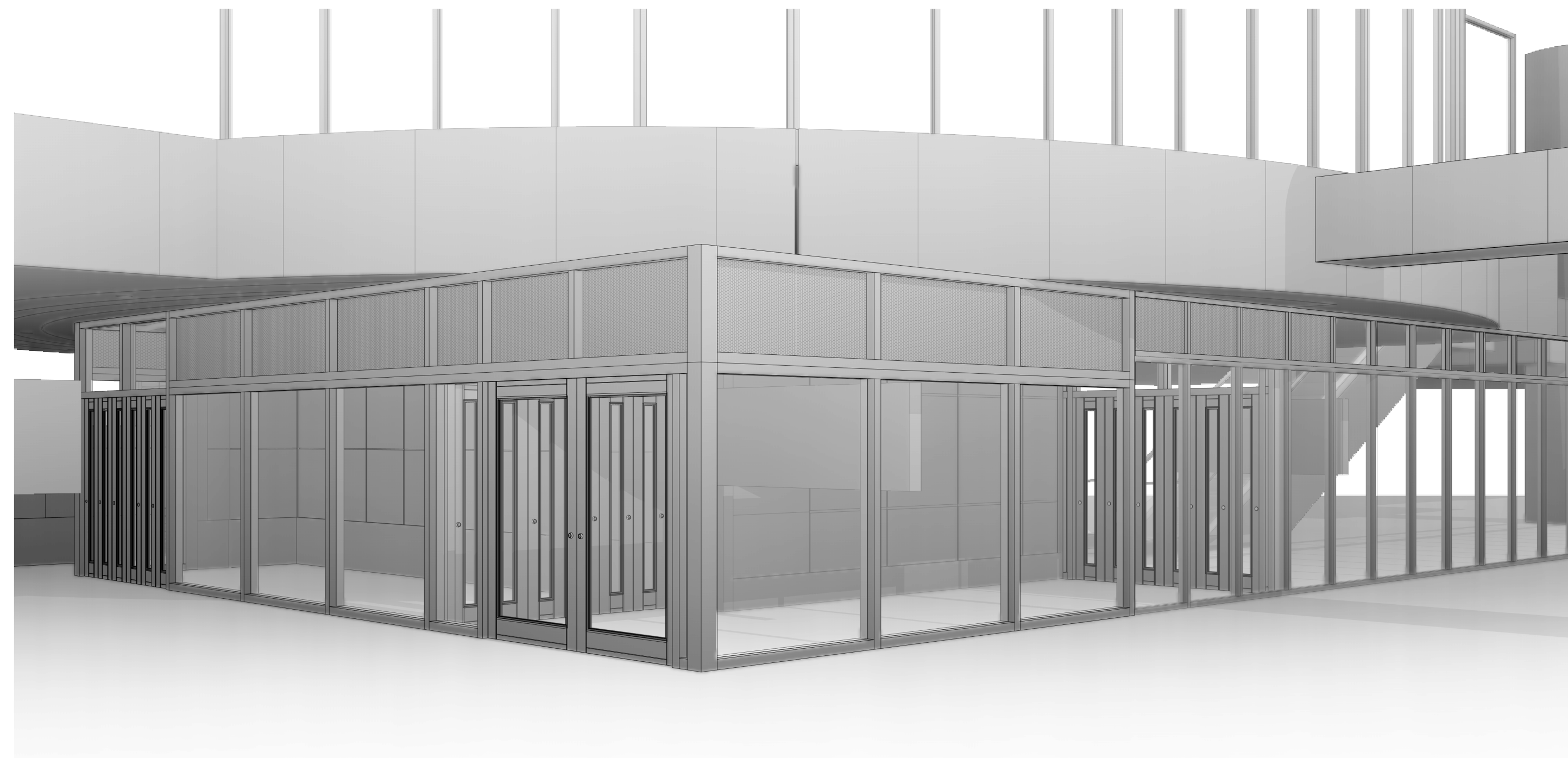


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FOR INFORMATION AND REFERENCE ONLY

PROJECT No. 1004345

09-09-21

HAS DESIGN SIGN-OFF

HAS - PROJECT MANAGER
DESIGN AS SUBMITTED IS APPROVED FOR CONSTRUCTION DOCUMENTATION

DEPARTMENT OF AVIATION RECOMMENDED:

HOUSTON AIRPORT SYSTEM DIRECTOR OR DESIGN REPRESENTATIVE

HAS TIP 21-156 - IAH

PROJECT NUMBER
1004345

SHEET TITLE
COVER SHEET / SHEET INDEX

SHEET NUMBER
G000

SHOP DRAWINGS & SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL, FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: MISC. STEEL, WAYFINDING AND SIGNAGE. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF DIGITAL PDF PRINTS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS.
2. CONTRACTOR NEEDS TO PROVIDE A COMPLETE MESSAGE SCHEDULE AND COMPLETE FABRICATION / ASSEMBLY DETAILS FOR ALL SIGNS FOR VERIFICATION PURPOSES AND SIGNED AND SEALED ENGINEERED DRAWINGS FOR SIGNAGE MOUNTING AND SUPPORTS.
3. THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS, AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE OR TO HAVE A LONG LEAD TIME, THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.
4. THE CONTRACTOR SHALL SUBMIT FINAL CLOSEOUT DOCUMENTS FOR REVIEW.

PATCHING, REPAIR & FINISH WORK

1. THE GENERAL CONTRACTOR SHALL INCLUDE ALL X-RAY AND CORE DRILL COSTS. THE GENERAL CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES. THE GENERAL CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CORE DRILLING AND SLAB OPENINGS TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
2. PATCH, REPAIR, AND INSTALL ALL FIREPROOFING AS REQUIRED BY CODE. FIREPROOFING ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
3. SLAB PENETRATIONS SHALL BE SEALED AS REQUIRED TO MAINTAIN FIRE RATING, USING MATERIALS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. EXPANSION MATERIAL SHALL BE APPROVED BY THE ARCHITECT.
4. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE BUILDING CREATED BY THE WORK PROVIDED UNDER THIS CONTRACT AND LEAVE ALL AREAS CLEAN. TRASH IS NOT PERMITTED TO BE BURNED ON SITE.
5. ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS. REMOVE ALL ABANDONED PIPE SLEEVES IN FLOOR SLABS. PATCH EXISTING SLAB AS REQUIRED TO MAINTAIN UL FIRE RATING OF FLOOR SLAB WHERE PIPES AND CONDUITS HAVE BEEN REMOVED.
6. THE GENERAL CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.
7. THE FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM, APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. THE FINISHED WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
8. GENERAL CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OF GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
9. ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES. THE DRAWINGS HIGHLIGHT SPECIAL CONDITIONS ONLY AND BY NO MEANS ILLUSTRATE EVERY CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING CONNECTION ACCORDINGLY.
10. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES. REQUIRED ACCESS PANELS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.

PROJECT CONDITIONS

1. THE TERM "BASE BUILDING" MEANS THE EXISTING STRUCTURES WITHIN THE PROPERTY SITE WHERE THE PROJECT AND THE WORK IS CONSTRUCTED.
2. DRAWING FOR THE WORK IS BASED ON OWNER-FURNISHED BASE BUILDING DOCUMENTS AND UPON THE ARCHITECT'S LIMITED VISUAL OBSERVATIONS OF LATENT EXPOSED CONDITIONS AT THE TIME OF COMMENCING THE ARCHITECT'S DESIGN CONSULTING SERVICES.
3. THE GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES, ERRORS, INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. THE GENERAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FINISHES, MATERIALS, AND EQUIPMENT AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE CLEANED AT THE COMPLETION OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.
5. THE GENERAL CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW WAYFINDING AND SIGNAGE (INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, PIPING, DUCT WORK, CONDUIT AND SPRINKLERS) AND THAT CLEARANCES FOR INSTALLATION ARE PROVIDED. ELEMENTS IN CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
6. IN THE EVENT OF CONFLICT BETWEEN DATA SHOWN ON DRAWINGS AND DATA PROVIDED IN THE SPECIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT OF ANY DISCREPANCIES, PRIOR TO PROCEEDING WITH THE WORK.
7. THE GENERAL CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. THE CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED IN STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, WILL RESULT IN ADDITIONAL WORK BEYOND THE SCOPE OF THE CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. ANY FIELD CONDITIONS THAT SIGNIFICANTLY VARY FROM THE CONTRACT DOCUMENTS OR WILL RESULT IN ADDITIONAL WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
8. DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR COORDINATION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED +.
9. MATERIALS INDICATED TO BE REUSED MUST BE FREE OF DEFECTS AND BE IN GOOD CONDITION OR SHALL BE REPLACED WITH NEW. UNDER THIS CONTRACT, ANY MATERIAL INDICATED TO BE REUSED WHICH IS NOT FREE OF DEFECTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT VIA A WRITTEN REQUEST FOR INFORMATION PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTORS USE OF BUILDING

1. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL BUILDING MANAGEMENT SECURITY REQUIREMENTS, INCLUDING PROJECT SITE ACCESS RULES.
2. LIMIT USE OF BASE BUILDING FOR THE WORK AND FOR CONSTRUCTION OPERATIONS, TO ALLOW CONTINUED OCCUPANCY AND USE.
3. CONFINE OPERATIONS WITHIN DESIGNATED STAGING AREAS AND COORDINATE USE OF BASE BUILDING FACILITIES AS APPROVED BY THE OWNER.
4. THIS PROJECT WILL REQUIRE WORK WITHIN THE SIDA (SECURITY IDENTIFICATION DISPLAY AREA) AREAS. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS ARE TO HAVE PROPER SECURITY TRAINING AND CREDENTIALS AS REQUIRED AND GRANTED BY HAS. THE CONTRACTOR AND THEIR SUBS ARE TO BE AWARE OF THEIR LOCATIONS WHILE WORKING IN THESE AREAS AND PROPER BADGING MUST BE DISPLAYED AT ALL TIMES. ALL COSTS ASSOCIATED WITH OBTAINING TRAINING AND CREDENTIALS TO ACCESS THE SIDA, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF WORK.
5. COORDINATE ANY SECURITY DEVICE REMOVAL / RELOCATION WITH HAS PRIOR TO COMMENCEMENT OF WORK.
6. MAINTAIN PROPER PATHS AND IDENTIFICATION OF EMERGENCY EGRESS.

PROJECT GENERAL DESCRIPTION

OVERALL PROGRAM NAME:
IAH TERMINAL - SECURITY EXIT LANE

PROJECT DESCRIPTION:
THE BASIS OF DESIGN IS TO PROVIDE AN EXIT LANE BREACH CONTROL (ELBC) SYSTEM THAT AUTOMATICALLY WATCHES PEOPLE AND OBJECTS FLOW THROUGH AIRPORT EXIT LANES (DEFINED AS A PASSENGER TRANSITION AREA CONTAINING A LINE OF DEMARCATION BETWEEN THE STERILE AND NON-STERILE AREA WHERE PASSENGERS ARE UNABLE TO RETURN WITHOUT SCREENING) AND PROVIDE AUTOMATED PHYSICAL BARRIER(S) PREVENTING ACCESS BACK INTO THE STERILE AREA.

THE ELBC SYSTEM SHALL CONTINUOUSLY, SILENTLY, RELIABLY AND AUTOMATICALLY MONITORS THE EXIT LANE TO ACCURATELY DETECT PEOPLE TRAVELLING THE WRONG WAY AND OBJECTS THROWN FROM THE PUBLIC TO THE STERILE SIDE IN THE EXIT LANE WITHIN THE PROTECTED ZONES OF DETECTION.

THIS DETECTION IS ACHIEVED UTILIZING THE EXITSENTRY VIDEO ANALYTICS SYSTEM. SOPHISTICATED AND HIGHLY SPECIALIZED VIDEO ANALYTICS SOFTWARE INTEGRATED WITH COMMERCIAL OFF THE SHELF (COTS) HARDWARE, THE SYSTEM SHALL PROVIDE LOCAL & REMOTE AUDIBLE AND VISUAL NOTIFICATIONS, LIVE AND RECORDED VIDEO OF THE EVENT, AND SYSTEM CONTROL FUNCTIONS UPON THEIR DETECTION.

EXITSENTRY IS THE INDUSTRY-LEADING SECURITY MONITORING AND ALARM SYSTEM. USING PATENTED,

AN INTERFACE VIA THE ACCESS CONTROL SYSTEM (ACS) FROM EXITSENTRY TO LAYERED CONTAINMENT MEASURES (AUTOMATIC DOORS) SHALL BE IMPLEMENTED AT THE ENTRANCE, CENTER, AND SECURE END OF THE EXIT LANE, THUS THE EXITSENTRY SYSTEM SHALL CONTROL THE CONTAINMENT AUTOMATED DOOR MEASURES THROUGH THE ACS AND PREVENT (CONTAIN) THE ADVANCING BREACH, WHETHER IT INVOLVES PEOPLE OR OBJECTS (OR BOTH).

LOCALLY, THE SYSTEM DEPLOYS A HIGH-DEFINITION MESSAGING LOUDSPEAKER, AUDIBLE ALARM SIGNAL AND A VISUAL STROBE FOR PASSENGER NOTIFICATIONS. SYSTEM MONITORING AND CONTROL AT THE REMOTE COMMAND TERMINAL LOCATED ADJACENT TO THE EXIT LANE.

IT ALSO PROVIDES LOCAL COMMUNICATIONS FOR THE SYSTEM SHALL UTILIZE THE EXISTING AIRPORT ETHERNET NETWORK. EVENTS THROUGH OBVIOUS CHANGES CONFIGURED ON THE AIRPORT ACCESS CONTROL SYSTEM (ACS) OPERATOR CONTROL WORKSTATIONS), AND CONTROL FUNCTIONS CAN ALSO BE CONFIGURED USING ACS OUTPUTS FOR REMOTE BYPASS, RESET AND MANUAL CONTROL OF AUTOMATIC CONTAINMENT MEASURES. VIDEO MONITORING IS PROVIDED FROM EXITSENTRY VIDEO OUTPUTS THROUGH A VIDEO PROCESSOR TO THE AIRPORT VIDEO MANAGEMENT SYSTEM (VMS). THE EXITSENTRY SYSTEM SHALL NOTIFY THE AIRPORT COMMUNICATIONS CENTER OF SYSTEM

PROJECT GENERAL NOTES

1. HOUSTON AIRPORT SYSTEMS (HAS) SHALL BE DESIGNATED AS "THE OWNER". PGAL ARCHITECTS SHALL BE DESIGNATED AS "THE ARCHITECT". GEORGE BUSH INTERCONTINENTAL AIRPORT (IAH) SHALL BE DESIGNATED AS "THE LANDLORD". THE GENERAL CONTRACTOR SHALL BE BOTH LICENSED AND BONDED IN TEXAS AND SHALL PROVIDE DOCUMENTS UPON REQUEST.
2. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING OBSERVING ALL RULES AND REGULATIONS IN AN AIRPORT SECURE ENVIRONMENT.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED FOR THE WORK AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.
4. THE CONTRACTOR SHALL VERIFY THAT THE DRAWINGS ARE THE LATEST ISSUE BEFORE COMMENCING CONSTRUCTION.

HAS STANDARDS

1. THIS PROJECT IS TO FOLLOW HOUSTON AIRPORT SYSTEM (HAS) STANDARDS FOR ALL DISCIPLINES. HAS STANDARDS CAN BE FOUND AT THEIR WEBSITE, [HTTP://WWW.HOUSTONAIRPORTS.BIZ/TIP](http://www.houstonairports.biz/tip).
2. ANY CONFLICTS BETWEEN HAS STANDARDS AND BID/CONSTRUCTION DOCUMENTS ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION VIA RFI.
3. ANY FLOOR PENETRATION WILL NEED TO BE X-RAY SCANNED. THIS INCLUDES BUT NOT LIMITED TO FLOOR ANCHORS, CORE, ETC. ALL SCANS ARE TO BE SUBMITTED TO HAS / EOR FOR REVIEW BEFORE WORK CAN BE PERFORMED.
4. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE PREMISES AND SHALL BASE THE BID ON THE EXISTING CONDITIONS IN CONJUNCTION WITH THESE DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO THE BID OF ANY DISCREPANCIES FOUND WITH THESE DOCUMENTS OR CONFLICTS WITH EXISTING CONDITIONS VIA WRITTEN REQUEST FOR INFORMATION.
5. PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION, THE CONTRACTOR SHALL VERIFY THE GENERAL LAYOUT AND EXACT LAYOUT OF ALL WAYFINDING AND SIGNAGE AND REPORT ANY QUESTIONS OR DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION VIA A WRITTEN REQUEST FOR INFORMATION.

FACILITIES

1. CORE DRILLING. THE CONTRACTOR SHALL SCAN THE AREA PRIOR TO CORE DRILLING OF CONCRETE STRUCTURES. THE CONTRACTOR SHALL USE THE GROUND PENETRATING RADAR (GPR) METHOD. THE CONTRACTOR SHALL SUBMIT A COPY OF THE GPR RESULTS TO AIRPORT STAFF, PRIOR TO CORE DRILLING, VERIFYING THAT THE AREA IS CLEAR OF CONDUITS/REBAR/PORT TENSION TENDONS/ETC.
2. HOT WORK PERMIT. THE CONTRACTOR SHALL OBTAIN A HOT WORK PERMIT FROM THE AIRPORT FOR WELDING, CUTTING, GRINDING, OR ANY OTHER ACTIVITY INVOLVING OPEN FLAMES, SPARKS, OR OTHER IGNITION SOURCES THAT MAY CAUSE SMOKE, FIRE, OR CAN TRIGGER THE FIRE DETECTION SYSTEM.

AIRSIDE / LANDSIDE

1. THE CONTRACTOR SHALL NOT BLOCK THE TERMINAL PASSENGER PATHS AND SHALL NOT BLOCK THE TSA CHECKPOINT AREAS.
2. THE CONTRACTOR SHALL MAINTAIN THE PATH OF TRAVEL, TO AND FROM THE WORK AREA IN A CLEAN MANNER. THE CONTRACTOR SHALL CLEAN THE PATH OF TRAVEL, AS NEEDED AND REMOVE ANY DUST/DEBRIS FROM THE PATH OF TRAVEL.

SECURITY

1. HAS APPROVAL OF THE REQUIRED "SECURITY PLAN" IS REQUIRED PRIOR TO THE START OF ANY WORK. THE SECURITY PLAN MUST BE SUBMITTED TO HAS FOR REVIEW AND APPROVAL. THE "SECURITY PLAN" SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

- DATES AND TIME OF WORK
- CONTRACTOR NAME & CONTACT INFORMATION
- BADGING OF CONSTRUCTION PERSONNEL
- SUMMARY OF WORK, INCLUDING ATTACHED PLAN
- PERSONNEL & VEHICLE SECURITY CLEARANCE INFORMATION
- PERSONNEL & VEHICLE ACCESS INFORMATION. SHOW ALL PENETRATIONS OF THE SECURITY BOUNDARY. DESIGNATED ROUTE FOR WORKERS TO ACCESS VARIOUS WORK AREAS MUST BE PROVIDED & APPROVED. IDENTIFY THE PATH OF TRAVEL TO THE WORK SITE AND IDENTIFY ANY ELEVATORS AND OR DOORS TO BE USED TO ACCESS THE SITE.
- CONSTRUCTION DEBRIS - SHOW HOW CONSTRUCTION DEBRIS WILL BE DISPOSED OF OR TRANSPORTED OFF SITE.
- SHOW PROPOSED LAYDOWN AREAS
- CONTACT AIRPORT SECURITY COMPLIANCE FOR TIMELINES FOR SUBMISSION AND COORDINATION OF WORK UNDER TSA GUIDELINES
- THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF WORK

CLIENT



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DEPARTMENT OF AVIATION
RECOMMENDED:

HOUSTON AIRPORT SYSTEM
DIRECTOR OR DESIGN REPRESENTATIVE

HAS TIP 21-156 - IAH

REGISTRATION

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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME

IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION

GEORGE BUSH IAH
3500 NORTH
TERMINAL RD.
HOUSTON, TX 77032

PROJECT NUMBER

1004345

SHEET TITLE

GENERAL PROJECT INFORMATION

SHEET NUMBER

G002

APPLICABLE CODES

BUILDING CODE: 2012 IBC - INTERNATIONAL BUILDING CODE (WITH COH AMENDMENTS)
 MECHANICAL CODE: 2012 UMC - UNIFORM MECHANICAL CODE (WITH COH AMENDMENTS)
 ELECTRICAL CODE: 2017 NEC - NATIONAL ELECTRICAL CODE (STATE MANDATED)
 PLUMBING CODE: 2012 UPC - UNIFORM PLUMBING CODE (WITH COH AMENDMENTS)
 FIRE CODE: 2012 IFC - INTERNATIONAL FIRE CODE (WITH COH AMENDMENTS)

APPLICABLE CODES

LIFE SAFETY CODE: NFPA - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 1.10, 13.14, 20, 70, 72, 101, 220, 221)
 ENERGY CODE: 2015 IECC - INTERNATIONAL ENERGY CONSERVATION CODE (WITH COH AMENDMENTS)
 ACCESSIBILITY: ASHRAE 90.1-2013 (WITH COH AMENDMENTS)
 2012 - TAS - (TEXAS ACCESSIBILITY STANDARDS / ADA)

CONSTRUCTION CLASSIFICATION

OCCUPANCY TYPE: A, NO CHANGE
 NUMBER OF STORIES: 3 STORY
 CONSTRUCTION TYPE: 1A
 SPRINKLED: YES
 FIRE RATING OF COLUMNS: 3 HRS
 STRUCTURAL ELEMENTS: BEAMS : 3HR
 ELEVATOR SHAFTS : 2HR
 FLOORS : 3 HR
 N/A - EXISTING, NO CHANGE IN OCCUPANCY

REQUIRED OCCUPANCY SEPARATION: NONE

FIRE PROTECTION

FIRE SPRINKLER: EXISTING TO COMPLY WITH NFPA 13
 FIRE ALARM: TO COMPLY WITH NFPA 72
 FIRE EXTINGUISHER: MAX DISTANCE TO FIRE EXTINGUISHER IS 75 FEET
 CABINETS:

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DEPARTMENT OF AVIATION
 RECOMMENDED:

HOUSTON AIRPORT SYSTEM
 DIRECTOR OR DESIGN REPRESENTATIVE
 HAS TIP 21-156 - IAH

REGISTRATION
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
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 HOUSTON, TX 77032

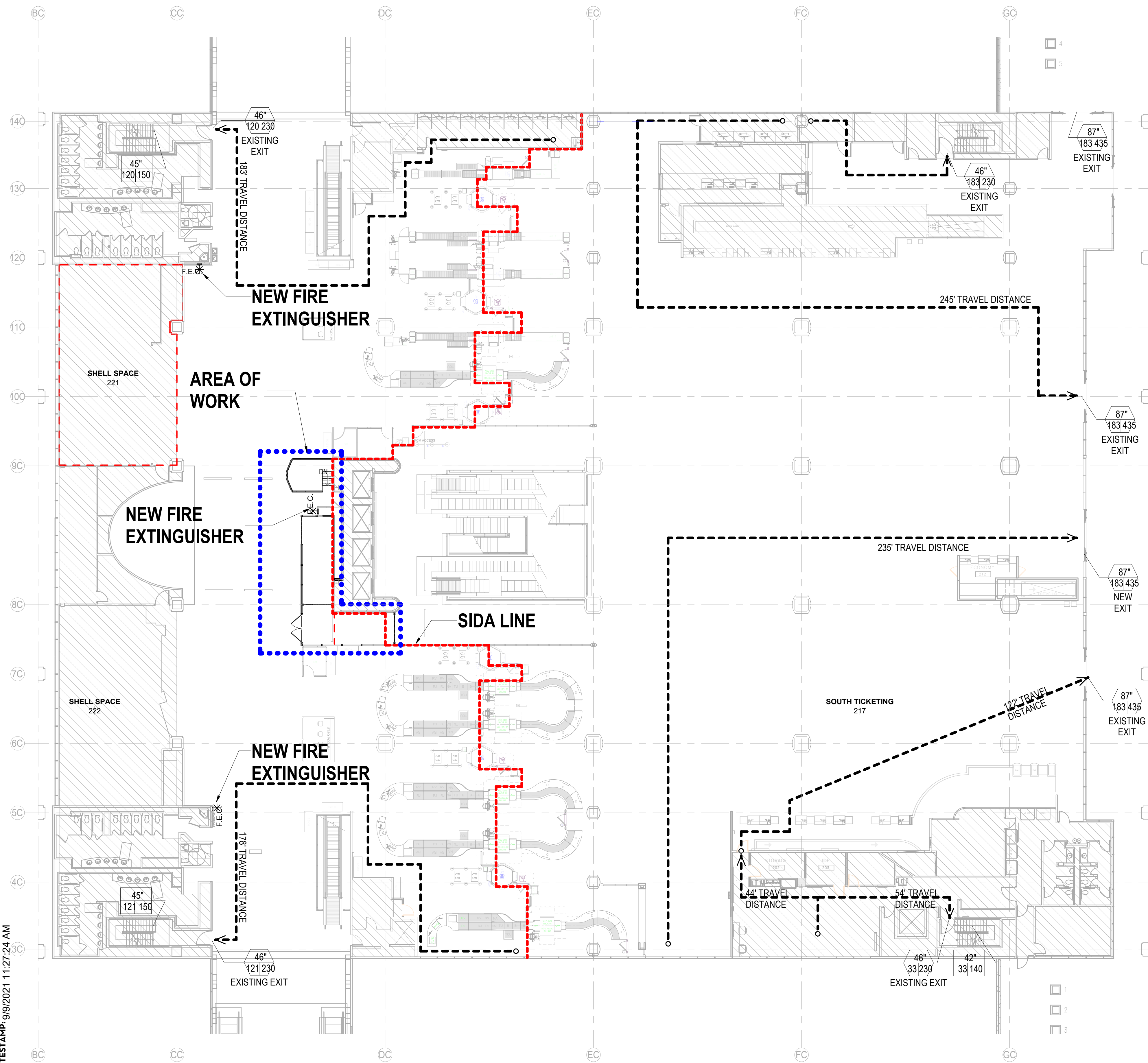
PROJECT NUMBER
 1004345

SHEET TITLE
 LIFE SAFETY
 ANALYSIS

SHEET NUMBER

G003

FILE NAME: C:\Revit\Local\IAH-TERM - SECURITY EXIT LANE_VQuijada@pgal.com(Recovery).rvt
 DATE/TIME: 9/9/2021 11:27:24 AM



EXIT ACCESS TRAVEL DISTANCE

TABLE 1016.2

OCCUPANCY	W/ SPRINKLER SYSTEM (FT)
A, E, F-1, M, R, S-1	250
I-1	250
B	300
F-2, S-2, U	400

COMMON PATH OF EGRESS TRAVEL

TABLE 1014.3

OCCUPANCY	W/ SPRINKLER SYSTEM (FT)
B, S	100
ALL OTHERS	75

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (IBC TABLE 803.9)

GROUP	SPRINKLERED		
	EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
A	B	B	C

FIRE PROTECTION SYSTEMS (IBC SECTION 903)

AUTOMATIC FIRE SPRINKLER SYSTEM PER NFPA 13 TO BE PROVIDED W/ 100% COVERAGE ON EACH LEVEL.
 FIRE EXTINGUISHERS PROVIDED. IFC TABLE 906.3(1)

OCCUPANCY CALCULATIONS (IBC TABLE 1004.1.2)

Room #	Name	Area	Occ. Type	OLF	Occ. Load	SIDA / NON-SIDA
LEVEL 2 - TICKETING						
201	BREAK ROOM	928.24 SF	A-3	15 SF	62	NON-SIDA
202	STORAGE	116.42 SF	S-1	300 SF	1	NON-SIDA
203	ID	106.49 SF	S-2	300 SF	1	NON-SIDA
204	STORAGE	122.03 SF	S-1	300 SF	1	NON-SIDA
205	MANAGER'S OFFICE	225.74 SF	B	100 SF	3	NON-SIDA
206	TSA IT	118.28 SF	S-2	300 SF	1	NON-SIDA
211	NEW LOBBY	1,073.6 SF	A-3	100 SF	11	NON-SIDA
212	ECONOMY	172.16 SF	B	100 SF	2	NON-SIDA
215	SOUTH QUEUEING	5,929.94 SF	A-3	100 SF	60	NON-SIDA
216	NORTH QUEUEING	5,378.38 SF	A-3	15 SF	359	NON-SIDA
217	SOUTH TICKETING	6,174.42 SF	A-3	15 SF	412	NON-SIDA
218	NORTH TICKETING	6,497.57 SF	A-3	100 SF	85	NON-SIDA
219	EXISTING LOBBY	7,946.79 SF	A-3	100 SF	80	NON-SIDA
223	GLOBAL SERVICES	789.58 SF	A-3	15 SF	53	NON-SIDA
207	REMOTE RESOLUTION ROOM	465.42 SF	B	100 SF	5	SIDA
208	PSR	56.88 SF	B	100 SF	1	SIDA
209	ELECTRICAL	15.08 SF	S-2	300 SF	1	SIDA
210	SOUTH SSCP	4,071.75 SF	A-3	100 SF	41	SIDA
213	ELECTRICAL	15 SF	S-2	300 SF	1	SIDA
214	NORTH SSCP	3,743.01 SF	A-3	100 SF	38	SIDA
220	CIRCULATION	9,745.6 SF	A-3	100 SF	98	SIDA
221	SHELL SPACE	1,602.32 SF	M	60 SF	27	SIDA
222	SHELL SPACE	1,700.2 SF	M	60 SF	29	SIDA
TOTAL					1372	1372

EGRESS WIDTH PER OCCUPANT SERVED (IBC TABLE 1005.1)

DOORS	MIN. REQUIRED	AVAILABLE CLEAR WIDTH PROVIDED
LEVEL 2: 0.2" X 1,131 OCC = 226.2 INCH/OCC	226.2"	527" PROVIDED
LEVEL 2: 0.2" X 241 OCC = 48.2 INCH/OCC	48.2"	92" PROVIDED

CORRIDOR FIRE-RESISTANCE RATING (IBC TABLE 1018.1)

GROUP	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (HOURS)
		WITH SPRINKLER SYSTEM
A,B,E,F,M,S,U	GREATER THAN 30	0

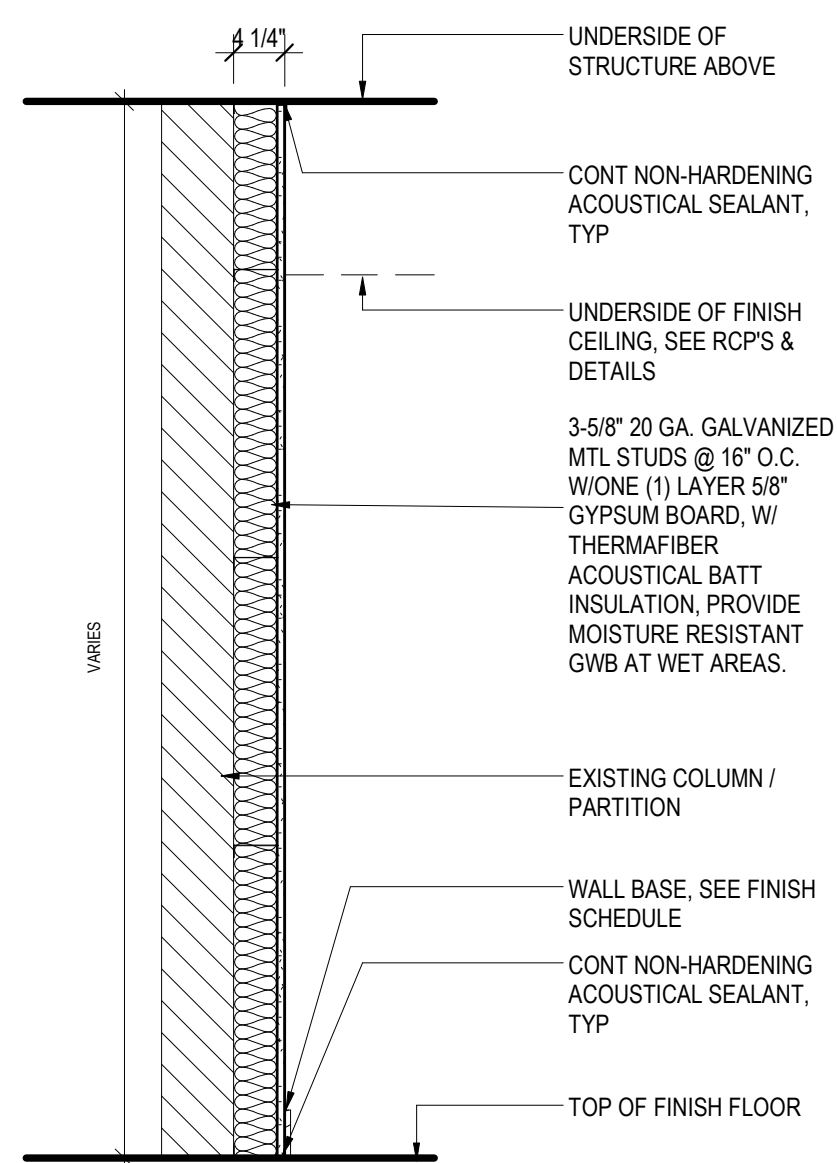
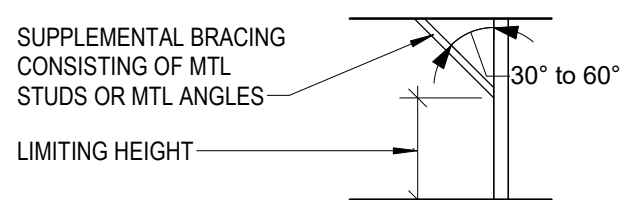
MINIMUM NUMBER OF EXITS PER OCCUPANT LOAD (IBC 1021)

OCCUPANT LOAD (PERSONS PER STORY)	MINIMUM # OF EXITS (PER FLOOR)(REQUIRED)	# OF EXITS PROVIDED
LEVEL 1: 1-500	2	5

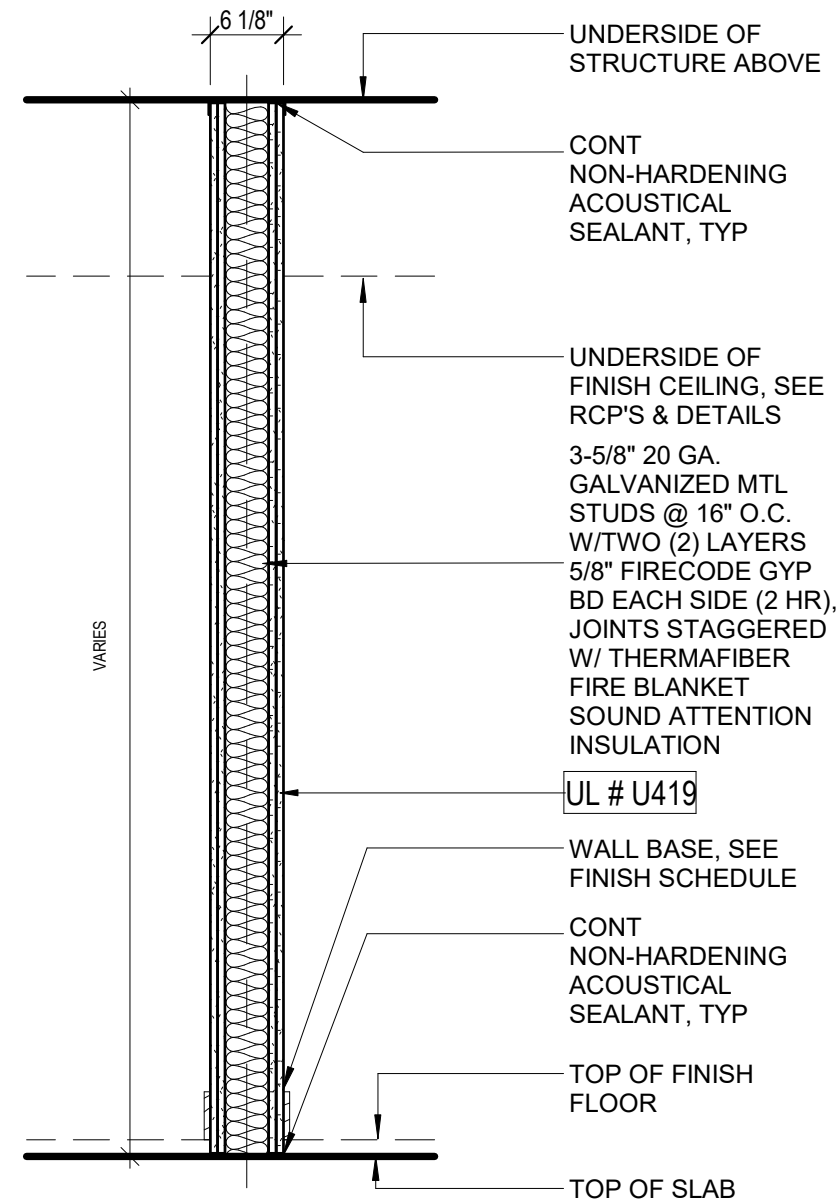
COLD FORMED FRAMING NOTES

ALL METAL STUDS TO BE 20 ga. AND PLACED AT 16 INCHES O.C. UNLESS NOTED OTHERWISE OR WHERE THE LIMITING HEIGHT REQUIRES 16ga AT 16" O.C.

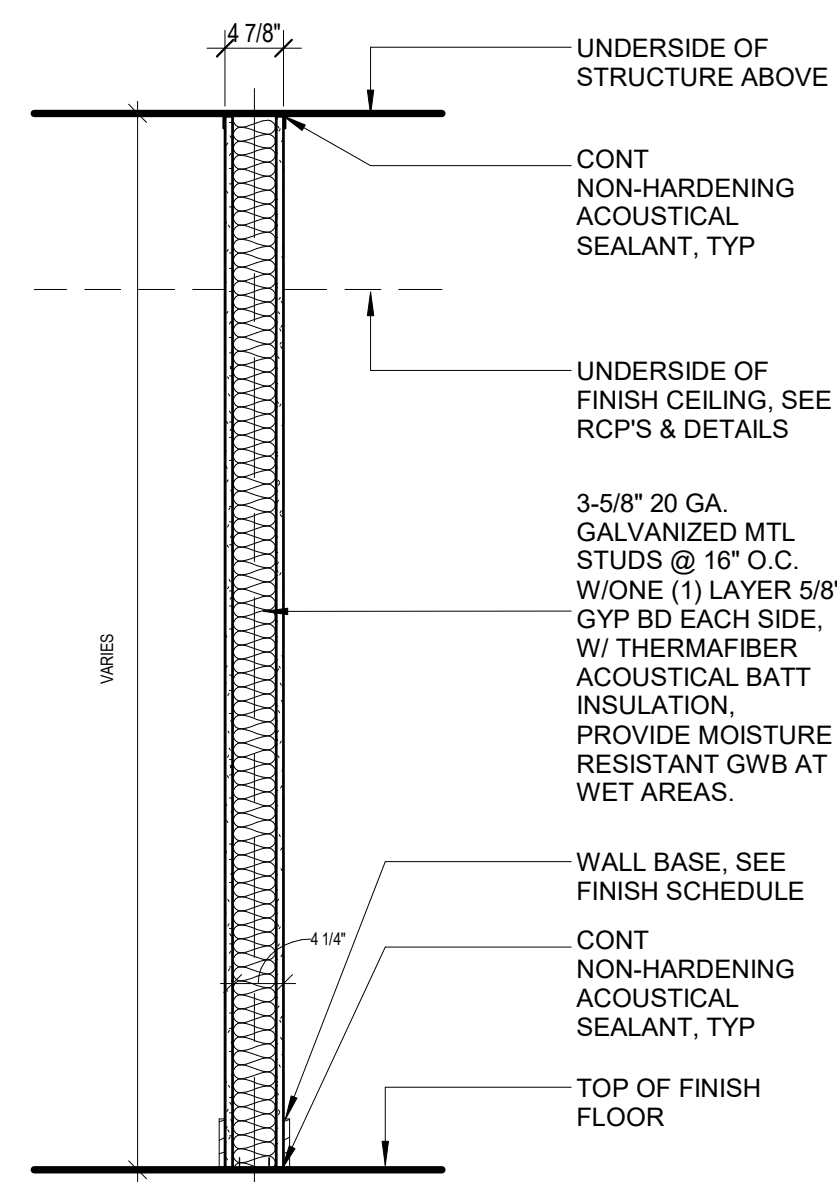
- ALL FURRING CHANNELS TO BE 25 ga. AND PLACED AT 16 INCHES O.C. UNLESS NOTED OTHERWISE.
- PARTITIONS SUPPORTING WALL HUNG PLUMBING FIXTURES SHALL BE 16 ga. AND PLACED 16 INCHES O.C.
- REFER TO STRUCTURAL DRAWINGS FOR STUD ga. SIZE AND SPACING FOR ALL STRUCTURALLY DESIGNED PARTITIONS.
- REFER TO ASTM C754 FOR LIMITING HEIGHTS CRITERIA. LIMITING HEIGHTS ARE TO BE DETERMINED BY DEFLECTION CRITERIA RATIO OF $L/240$ AND LATERAL PRESSURE OF 5 PSF UNLESS NOTED OTHERWISE OR DICTATED OTHERWISE BY PRESIDING BUILDING CODE. WHERE FLOOR TO STRUCTURE HEIGHT OF PARTITION EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN REQUIRED DEFLECTION RATIO.
- FOR PARTITIONS WITH "BRITTLE" FINISHES SUCH AS PLASTER AND CERAMIC TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN $L/360$. SUSPENDED CEILING SHALL NOT BE CONSIDERED AS BRACING.



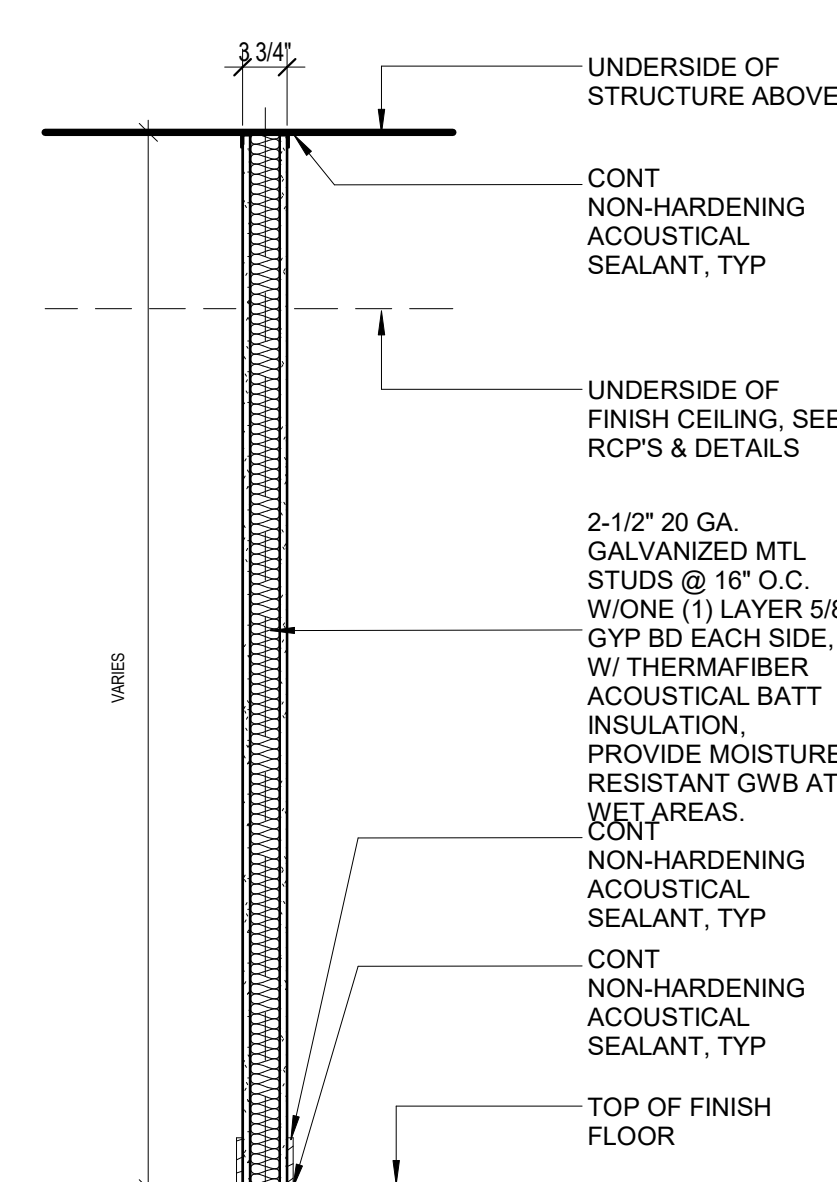
B7.1 FURRING WALL PARTITION 3-5/8" STUD | 3/4" = 1'-0" | 4



B2.1 RATED PARTITION 1 | 3/4" = 1'-0" | 2



B1.3 NON-RATED PARTITION 3-5/8" STUD 1 | 3/4" = 1'-0" | 3

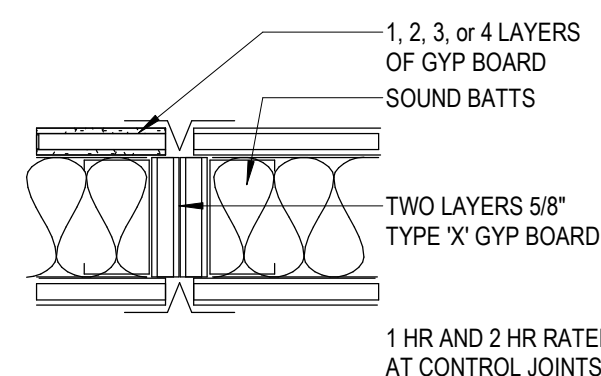


B1.1 NON-RATED PARTITION 2-1/2" STUD 1 | 3/4" = 1'-0" | 1

ACOUSTICAL NOTES

- ALL ACOUSTICALLY CLASSIFIED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE TO THE REFERENCED TEST.
- STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
- SEAL ALL PERIMETER GAPS, AIR TIGHT, AT THE FLOORS, HEAD, ADJACENT CONSTRUCTION AND AROUND ANY PENETRATING ELEMENTS WITH INTERIOR GRADE ACOUSTICAL SEALANT.
- ALL BATTS AND BLANKETS IN RATED WALLS MUST BEAR THE REQUIRED U.L. CLASSIFICATION MARKING AS TO FIRE-RESISTANCE. ALSO REFER TO CODE COMPLIANCE DETAILS IN G010 SERIES.
- AT ACOUSTICALLY RATED PARTITIONS, DO NOT FILL THE STUD CAVITY (DEPTH) FULLY WITH SOUND BATTS. THE WIDTH OF THE SOUND BATTS SHOULD BE SLIGHTLY SMALLER THAN CAVITY TO AVOID BATTS COMPRESSION. HOWEVER, THE ENTIRE LENGTH AND HEIGHT OF THE WALL SHOULD HAVE CONTINUOUS AND UNINTERRUPTED SOUND ATTENUATION BATTS.
- SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSIFIED PARTITIONS.
- SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS UNLESS THE PARTITION IS ALSO FIRE RATED WHERE THE CODE COMPLIANCE DETAILS.
- OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSIFIED PARTITIONS.

FIREWALL CONTROL JOINTS



FIRE RATING NOTES

- UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.
- ALL PARTITION TYPES SHOWN HERE ARE DRAWN AS "NON FIRE-RATED". WHERE FIRE RESISTIVE WALL CONSTRUCTION IS INDICATED, ON THE FLOOR PLANS, PROVIDE "TYPE X" GYPSUM WALLBOARD, AND FIRE RATED SEALANT AT PERIMETER JOINTS AND ALL PENETRATIONS. TYPICAL BOTH SIDES OF PARTITION AS INDICATED ON THE U.L. DETAILS AND ASSEMBLIES.
- REFER TO SHEET G010 FOR U.L. LISTED ASSEMBLIES.

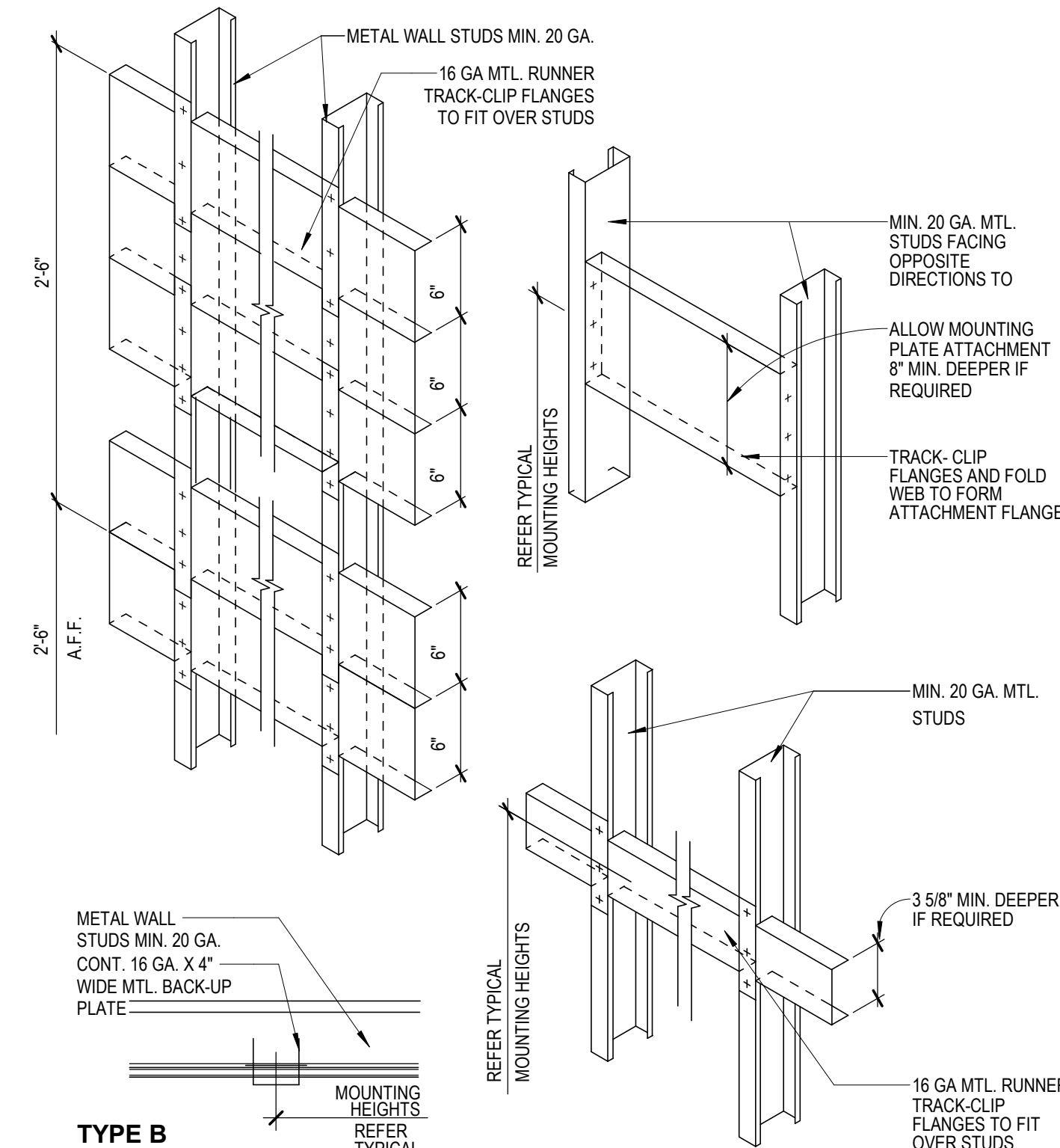
GYPSUM BOARD PARTITION PRIORITY LEGEND

PARTITION	DOOR RATING	PRIORITY
FOUR HOUR FIRE PARTITION	3 HOUR - A LABEL	PRIORITY 1 - HIGHEST
TWO HOUR FIRE/SMOKE PARTITION	1 1/2 HOUR - B LABEL	PRIORITY 2
TWO HOUR FIRE PARTITION	1 1/2 HOUR - B LABEL	PRIORITY 3
ONE HOUR FIRE/SMOKE PARTITION	3/4 HOUR - C LABEL	PRIORITY 4
ONE HOUR FIRE PARTITION	3/4 HOUR - C LABEL	PRIORITY 5
ONE HOUR FIRE PARTITION	20 MIN RATING	PRIORITY 6
NON-RATED PARTITION	NONE	PRIORITY 7 - LOWEST

GENERAL NOTES

- ALL POSSIBLE VARIATIONS OF PARTITIONS TYPES AND U.L. FIRE RATINGS ARE NOT NECESSARILY UTILIZED IN THIS PROJECT AND ARE SHOWN FOR REFERENCE ONLY. UNLESS RATED PARTITIONS ARE INDICATED ON THE FLOOR PLANS, WHERE U.L. RATED PARTITIONS ARE INDICATED, REFER TO FLOOR PLANS AND PROVIDE FIRE SEALANT AT THOSE LOCATIONS AS REQUIRED.
- WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF STRUCTURAL JOISTS OR GIRDERS, THE PARTITION SHALL EXTEND TO THE UNDERSIDE OF STRUCTURE AND FOLLOW THE LINE OF STRUCTURE.
- PROVIDE CEMENTITIOUS BACKER BOARD ON ALL WALLS TO RECEIVE CERAMIC TILE FINISH. PROVIDE WATER RESISTANT GYPSUM PANELS ON CEILINGS IN ROOMS THAT INCLUDE SHOWERS. FRAMING NOT TO EXCEED SPACING RECOMMENDED BY MANUFACTURER.
- PROVIDE ONE LAYER OF 5/8" MOISTURE RESISTANT GYPSUM BOARD AT WALLS BEHIND SINKS AND LAVATORIES WITHOUT TILE. MOISTURE RESISTANT GYPSUM BOARD SHALL BE INSTALLED WITHIN 2" OF ALL URINALS AND WATER CLOSETS, TO A HEIGHT OF 4' AFF.
- WHERE FIRE RESISTIVE CONSTRUCTION IS INDICATED, PROVIDE TYPE X-W/R BOARD. IN CONDITIONS WHERE NOTE 3 AND 4 APPLY, INSTALL 1 LAYER OF APPLICABLE MOISTURE RESISTANT BOARD OR CEMENTITIOUS BACKER BOARD OVER THE TYPE X-W/R BOARD. INSTALL PER MANUFACTURER LIMITATIONS.
- STC RATINGS SHOWN FOR SOUND WALLS ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK. PROVIDE MTL. DECK FILLERS WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF DECK. DECK FILLERS ARE TO BE COMPATIBLE WITH ALL FIRE RATED ASSEMBLIES AND ARE TO BE APPROVED BY ALL GOVERNING AGENCIES.
- PROVIDE FIRE TREATED WOOD BLOCKING, SHEET METAL OR STEEL BACKING IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT, ETC.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

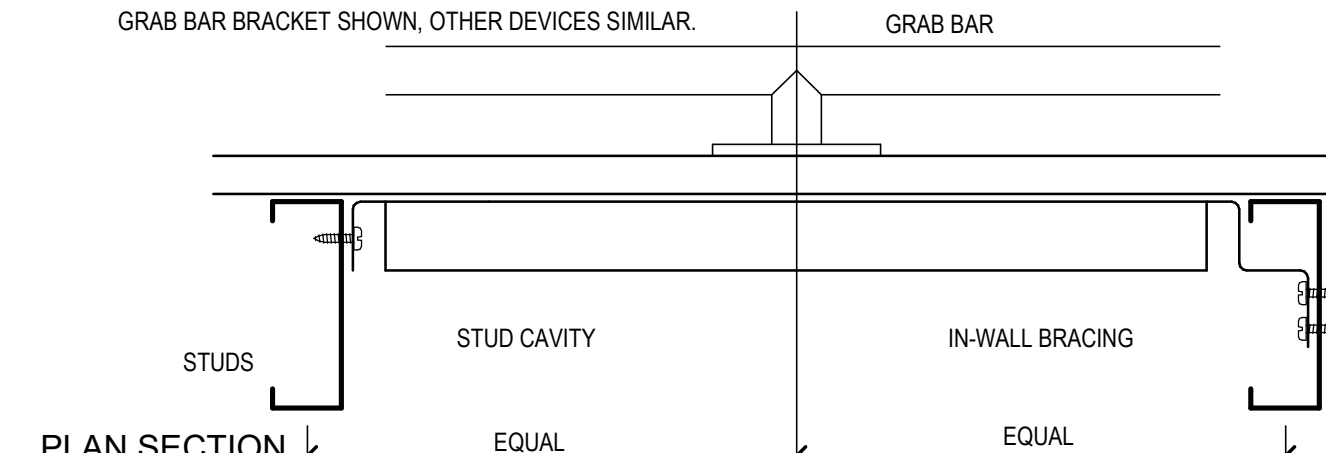
PARTITION DETAILS



TYPE B

MOUNTING SUPPORT DETAILS

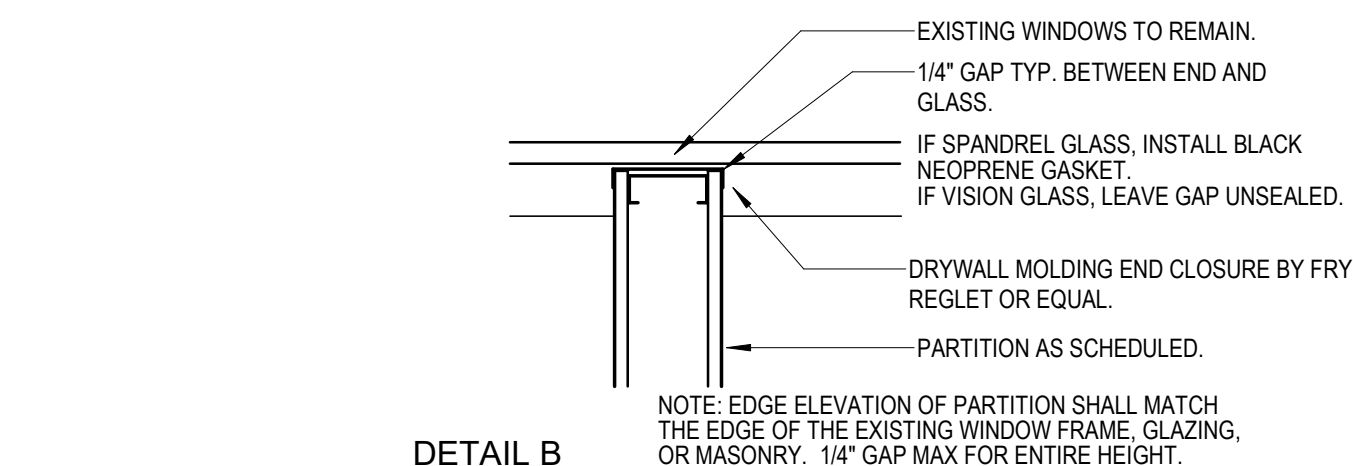
SCALE: NONE
 PROVIDE IN-WALL BRACING IN ALL PARTITIONS OR EXTERIOR WALLS WHERE GRAB BARS, HANDRAILS, SHOWER SEATS OR OTHER EQUIPMENT ANCHORS TO METAL STUD WALLS AND IN OTHER LOCATIONS AS NOTED ON THE DRAWINGS. CENTER STUDS ABOUT THE LOCATION OF THE DEVICE ANCHOR POINT. GRAB BAR BRACKET SHOWN, OTHER DEVICES SIMILAR.



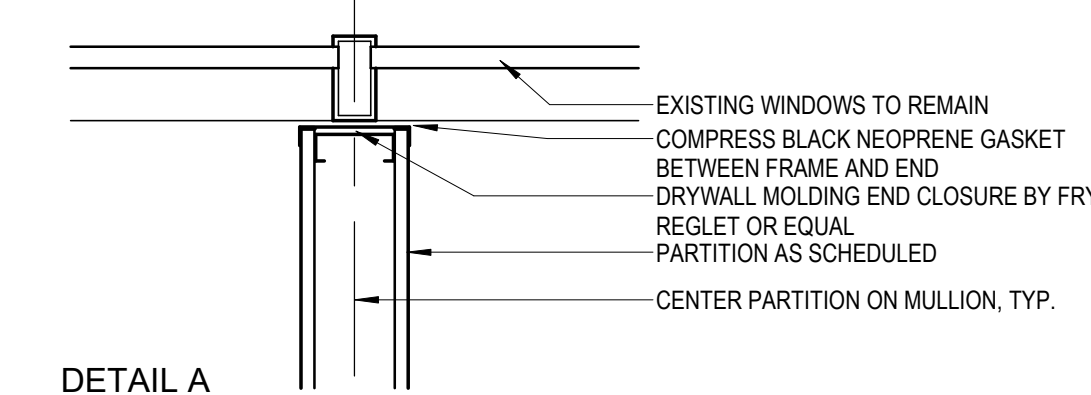
IN-WALL BRACING SHALL BE NO LESS THAN A 6" x 1 1/4" x 14 GAUGE CHANNEL STEEL $F_y = 50ksi$ AND SHALL SUPPORT A 250 POUND GRAVITY LOAD CONCENTRATED AT ANY POINT ON THE DEVICE BEING ANCHORED.

16 GA. x 4" WIDE MTL BACKUP PLATE MAY BE USED

IN-WALL BRACING



NOTE: EDGE ELEVATION OF PARTITION SHALL MATCH THE EDGE OF THE EXISTING WINDOW FRAME, GLAZING, OR MASONRY. 1/4" GAP MAX FOR ENTIRE HEIGHT.



DETAIL A

PARTITION AT MULLION DETAILS

SCALE: NONE

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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

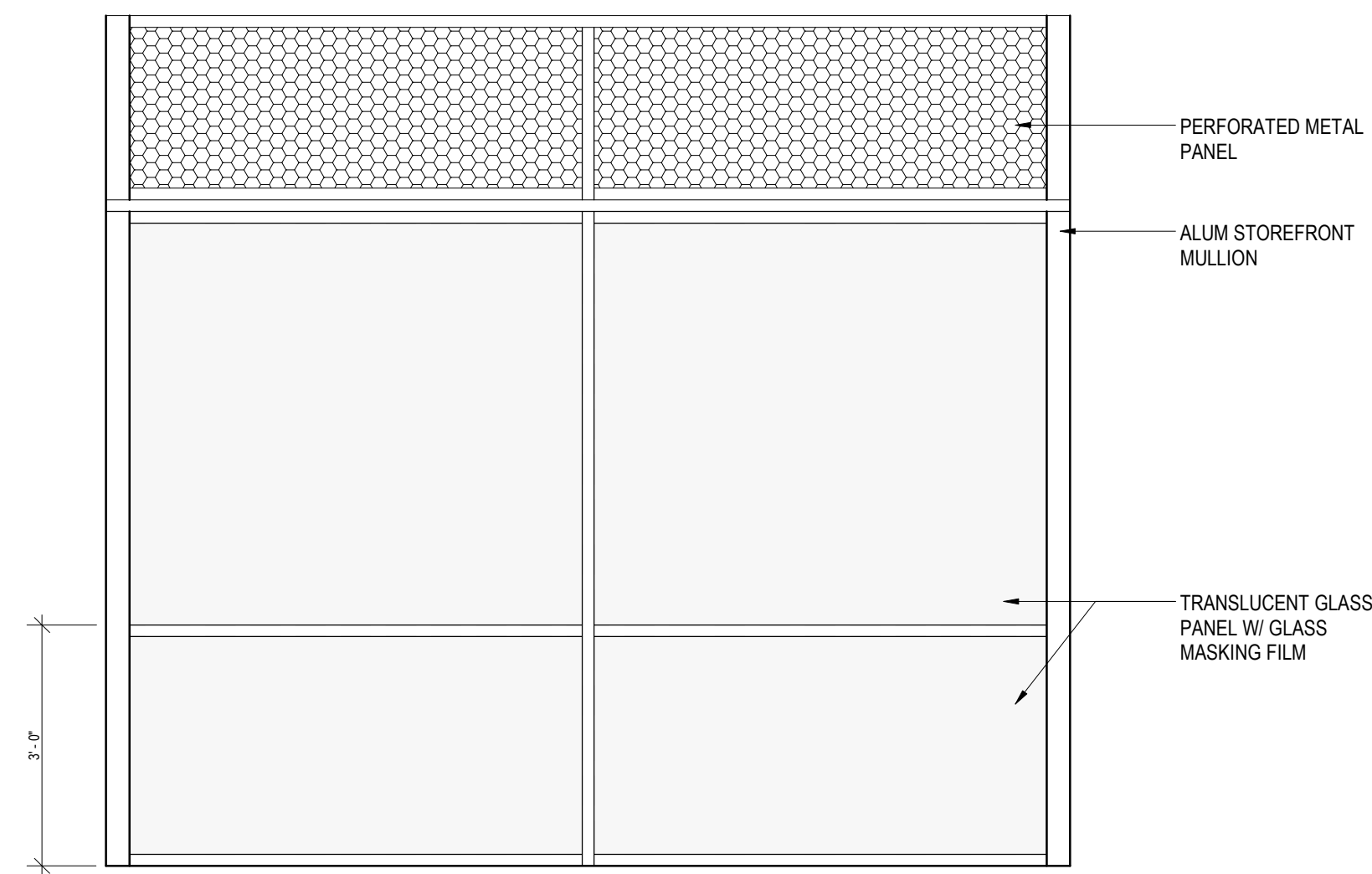
PROJECT NUMBER
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SHEET TITLE
 PARTITION TYPES

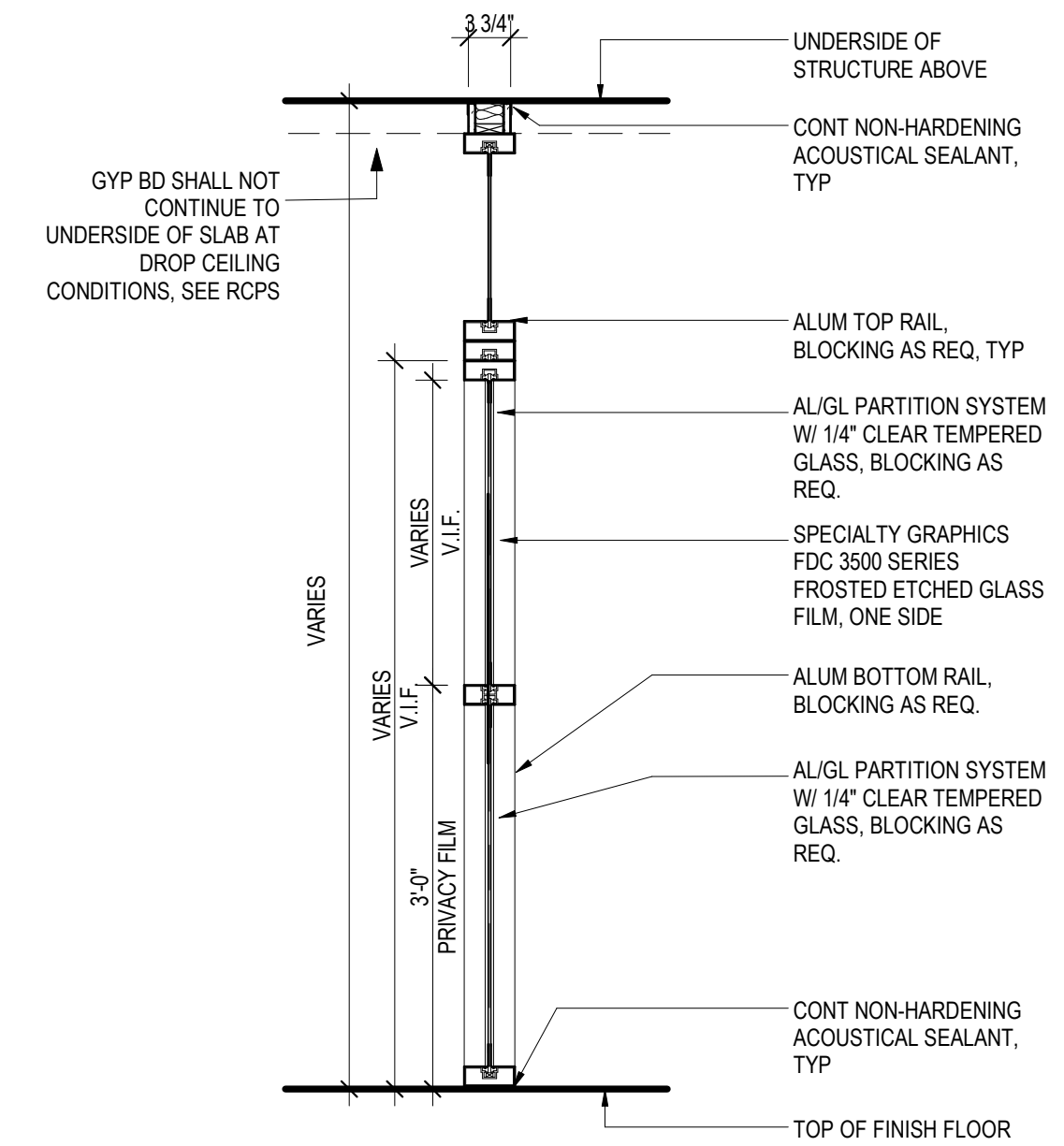
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A1 FULL HEIGHT STOREFRONT W/ GLASS & METAL INFILL 1/2" = 1'-0" 4



FULL HEIGHT STOREFRONT W/ GLASS & METAL INFILL 3/4" = 1'-0" 2

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 SECURITY EXIT
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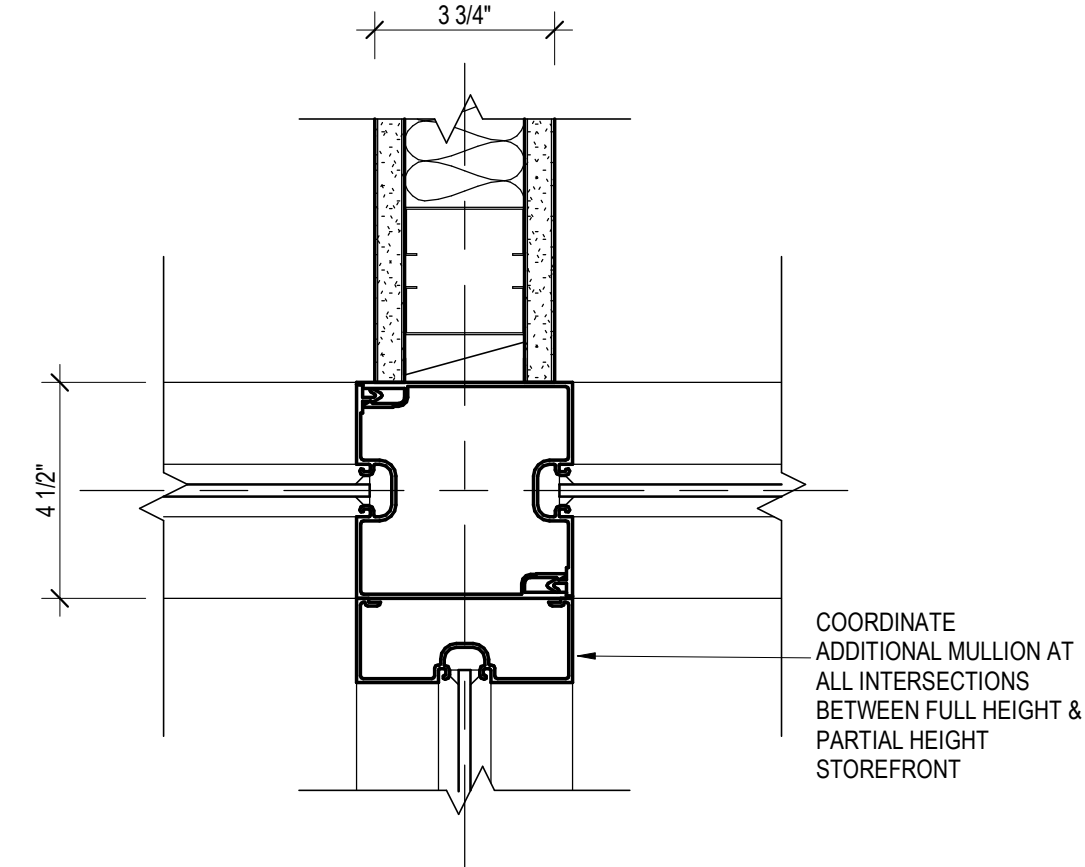
PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

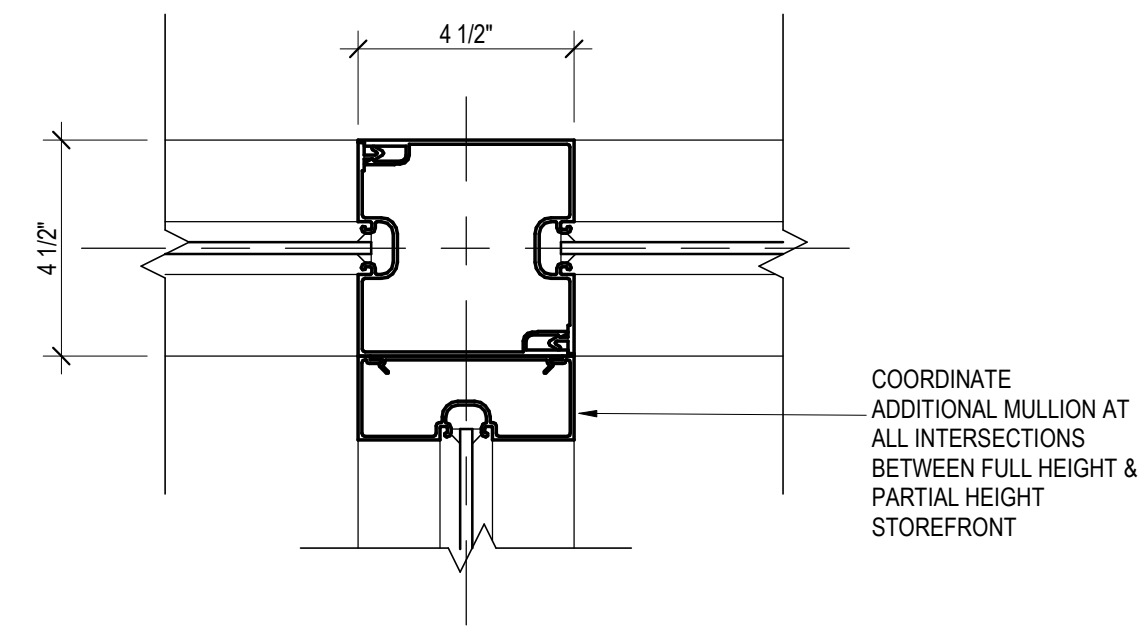
SHEET TITLE
 STOREFRONT
 TYPES

SHEET NUMBER

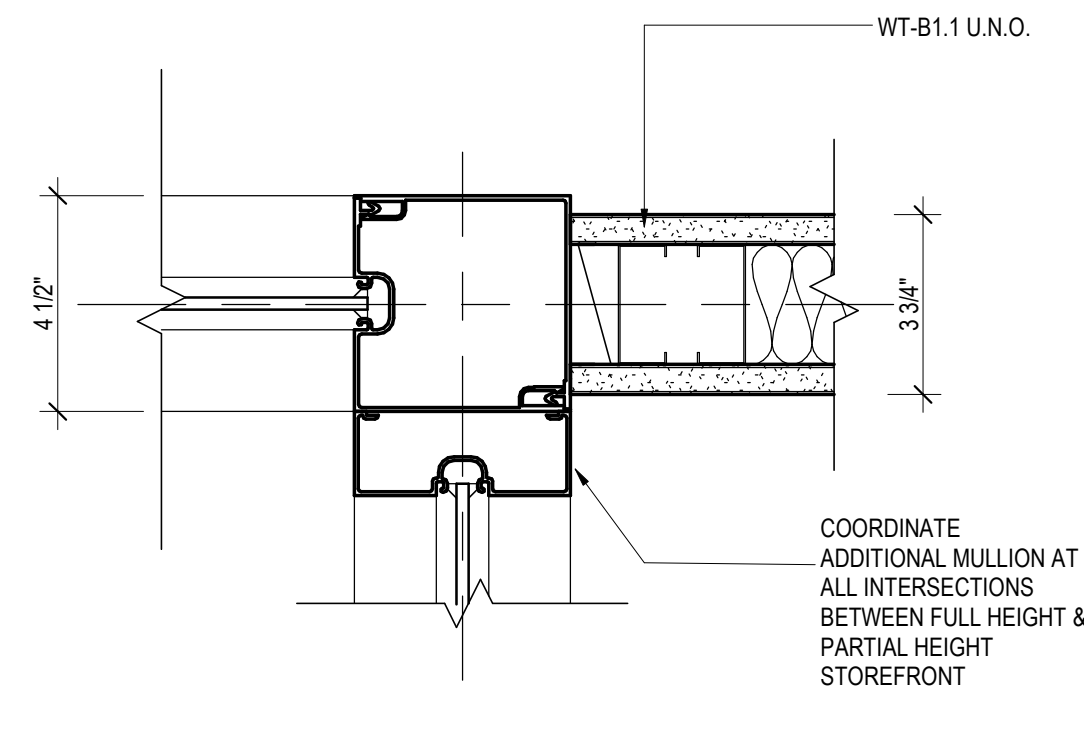
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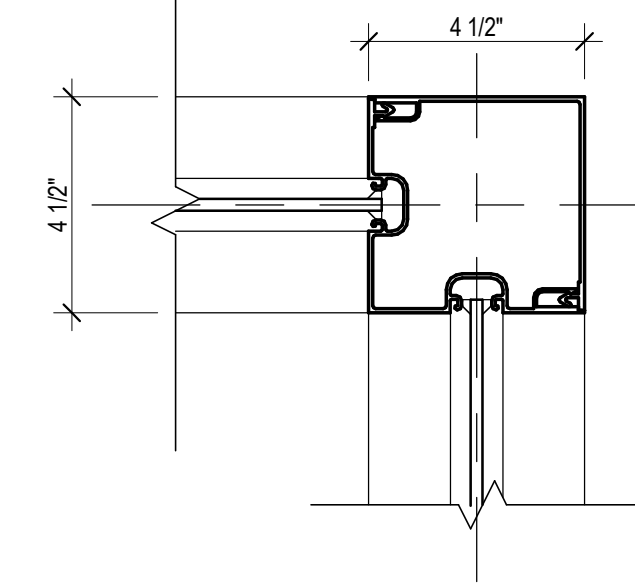
MULLION AT INTERSECTION 3" = 1'-0" 12



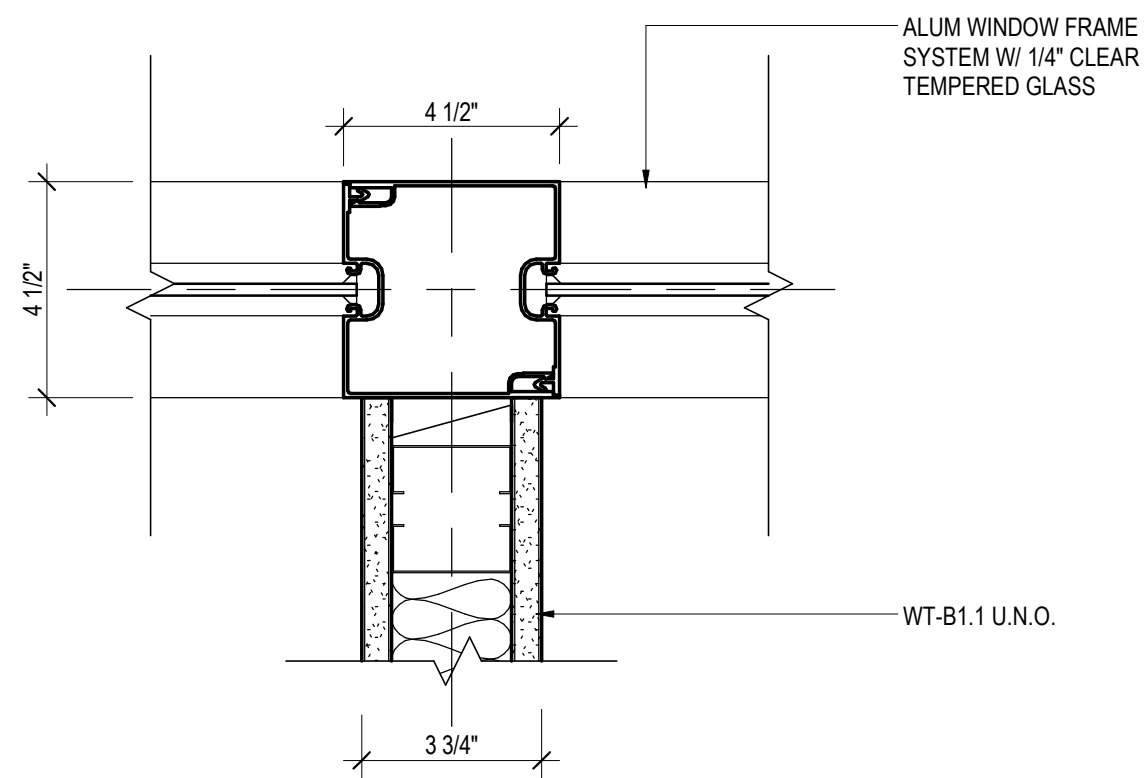
MULLION AT INTERSECTION 3" = 1'-0" 9



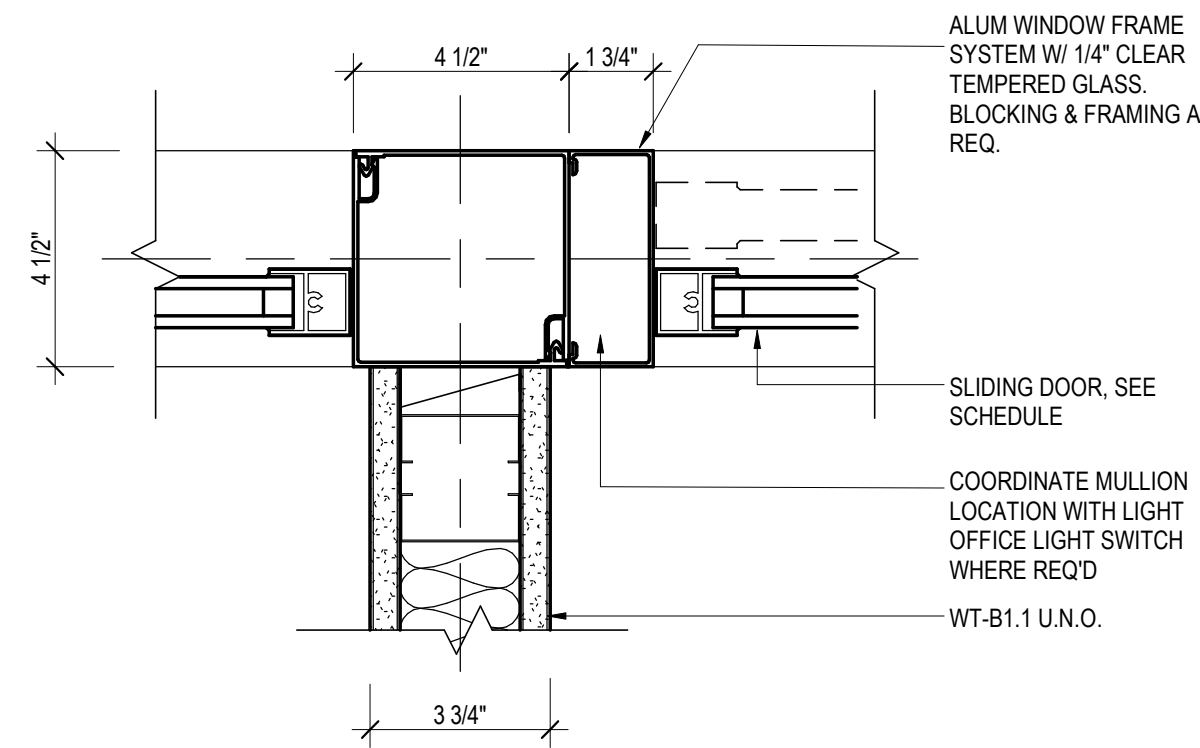
MULLION AT INTERSECTION 3" = 1'-0" 6



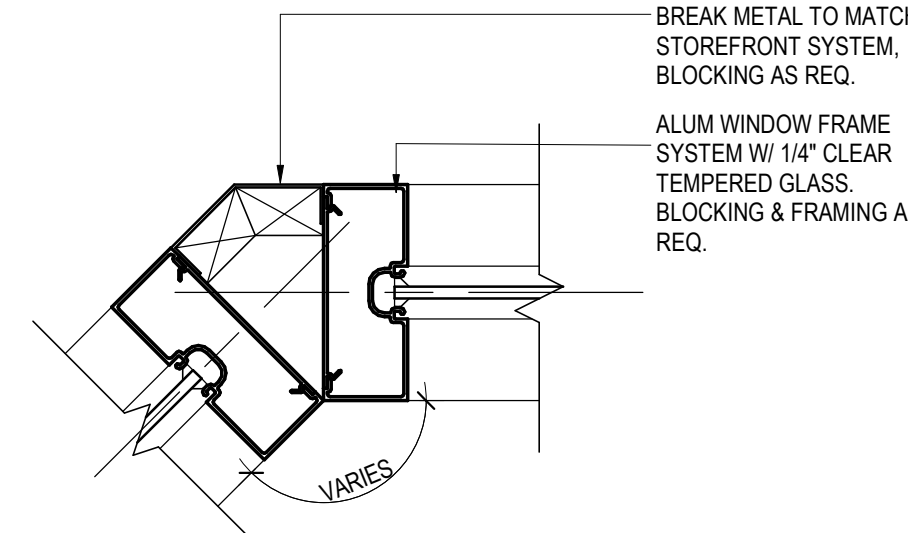
MULLION AT CORNER 3" = 1'-0" 3



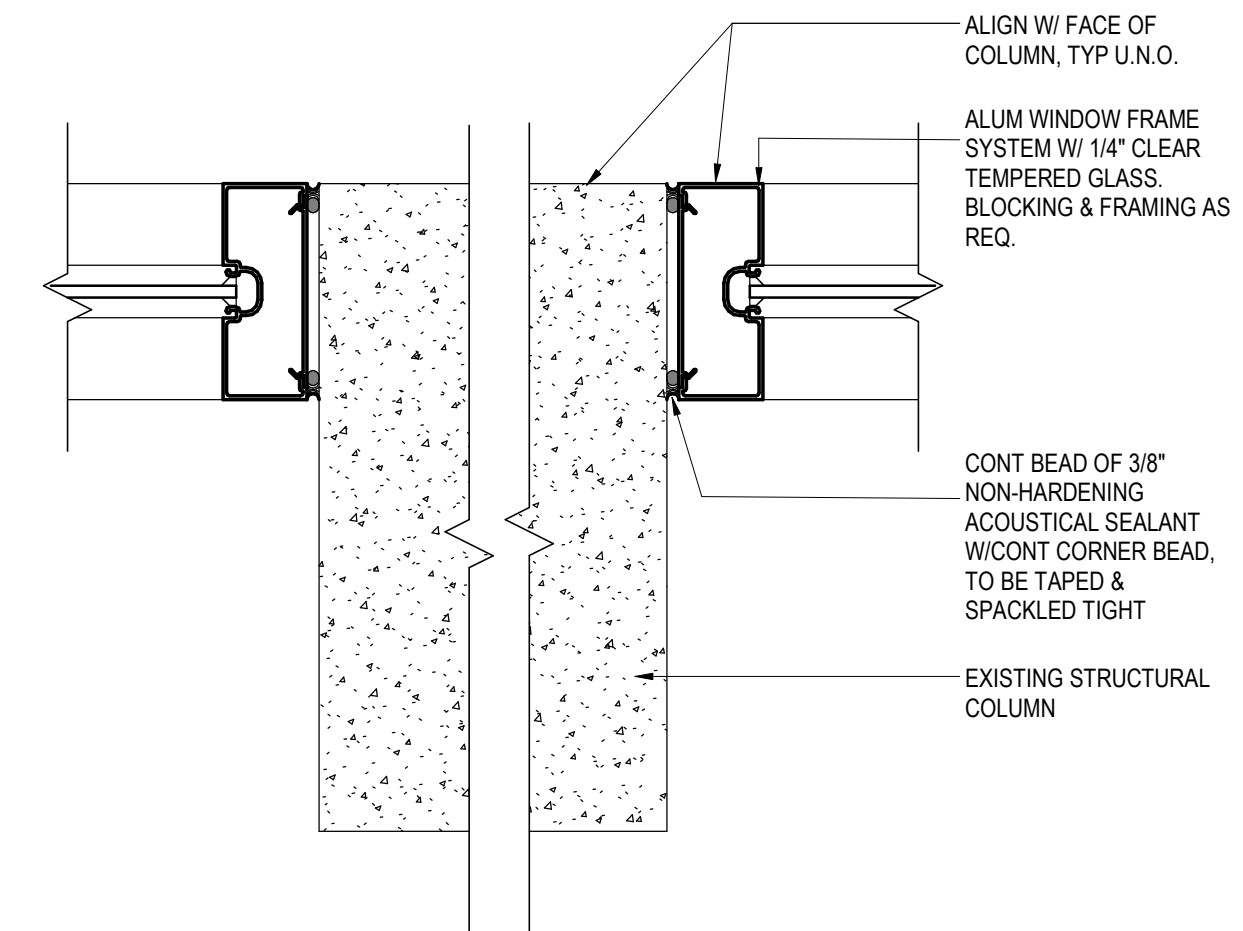
MULLION AT DIVIDING WALL 3" = 1'-0" 11



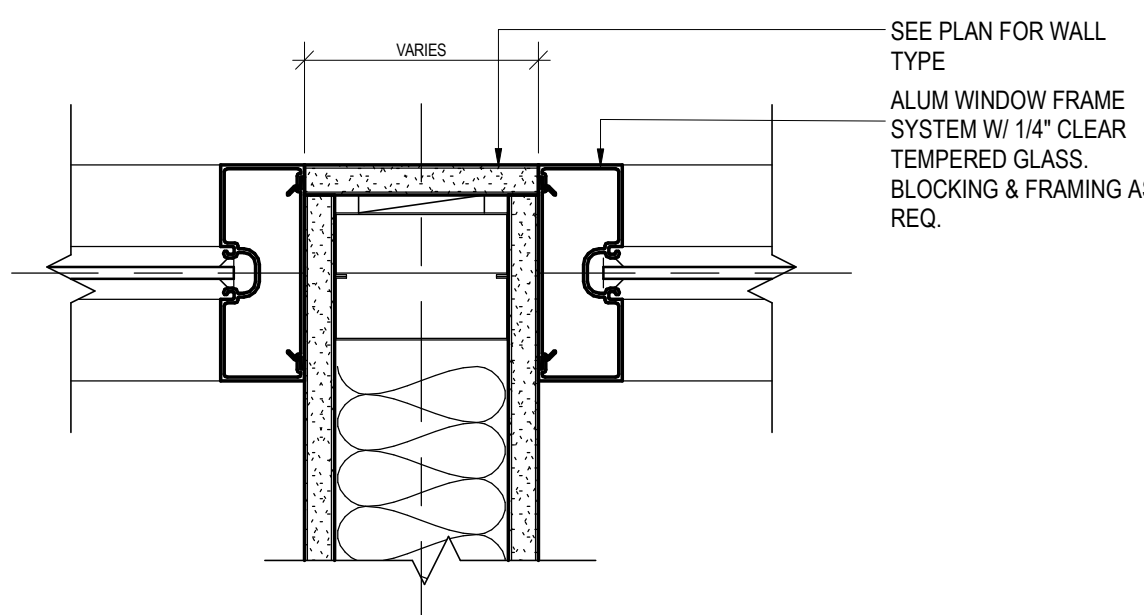
MULLION AT SLIDING DOORS & DIVIDING WALL 3" = 1'-0" 8



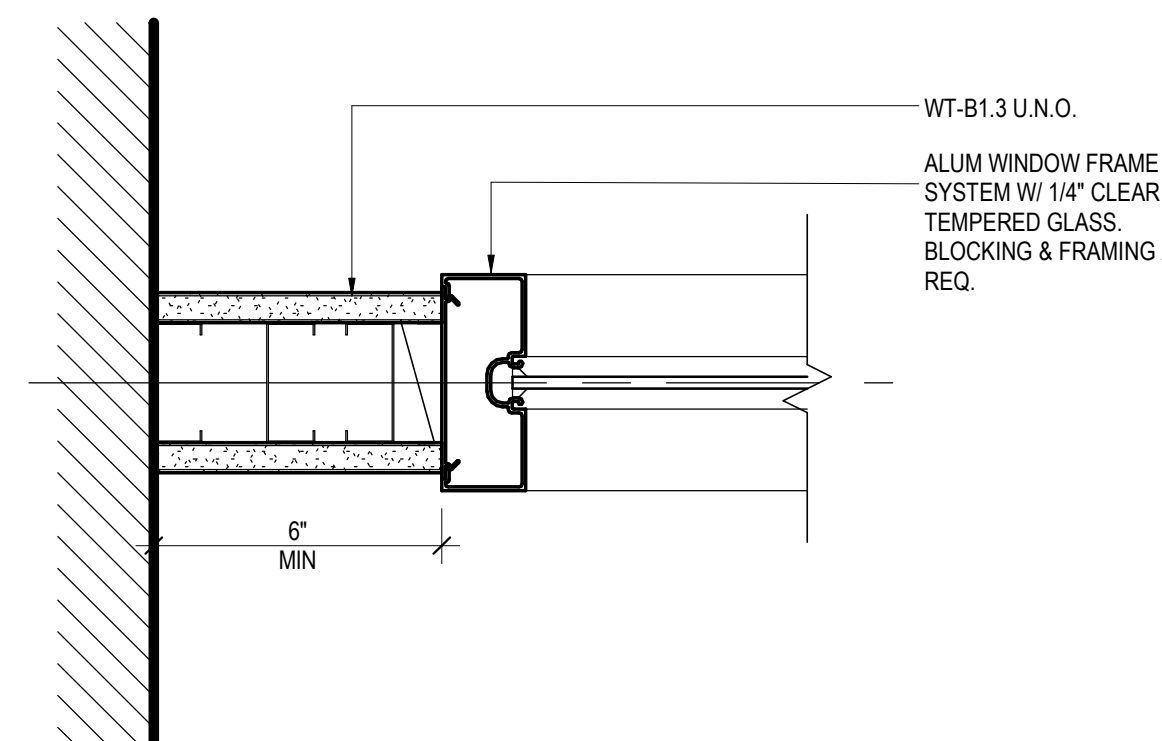
CUSTOM BREAK METAL DETAIL 3" = 1'-0" 5



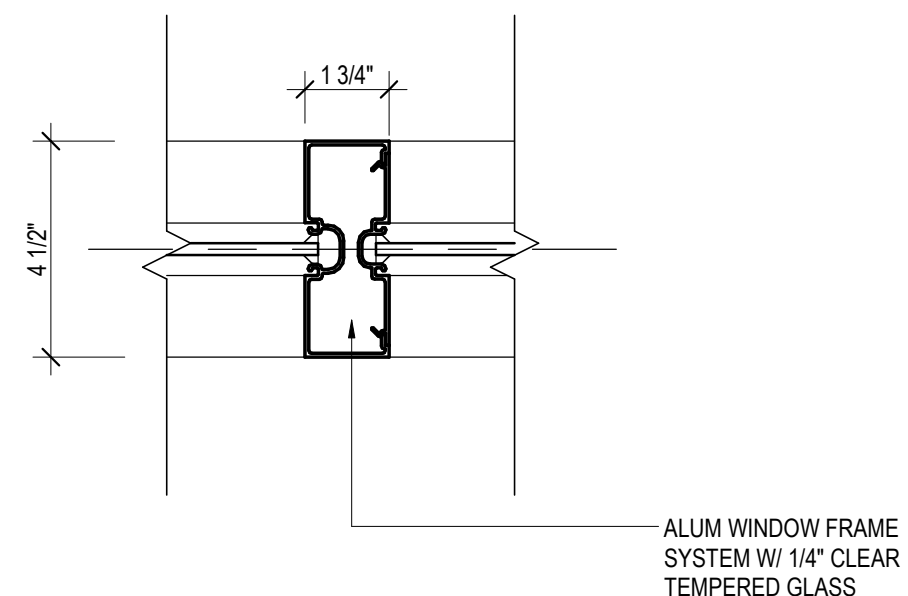
MULLION AT COLUMN 3" = 1'-0" 2



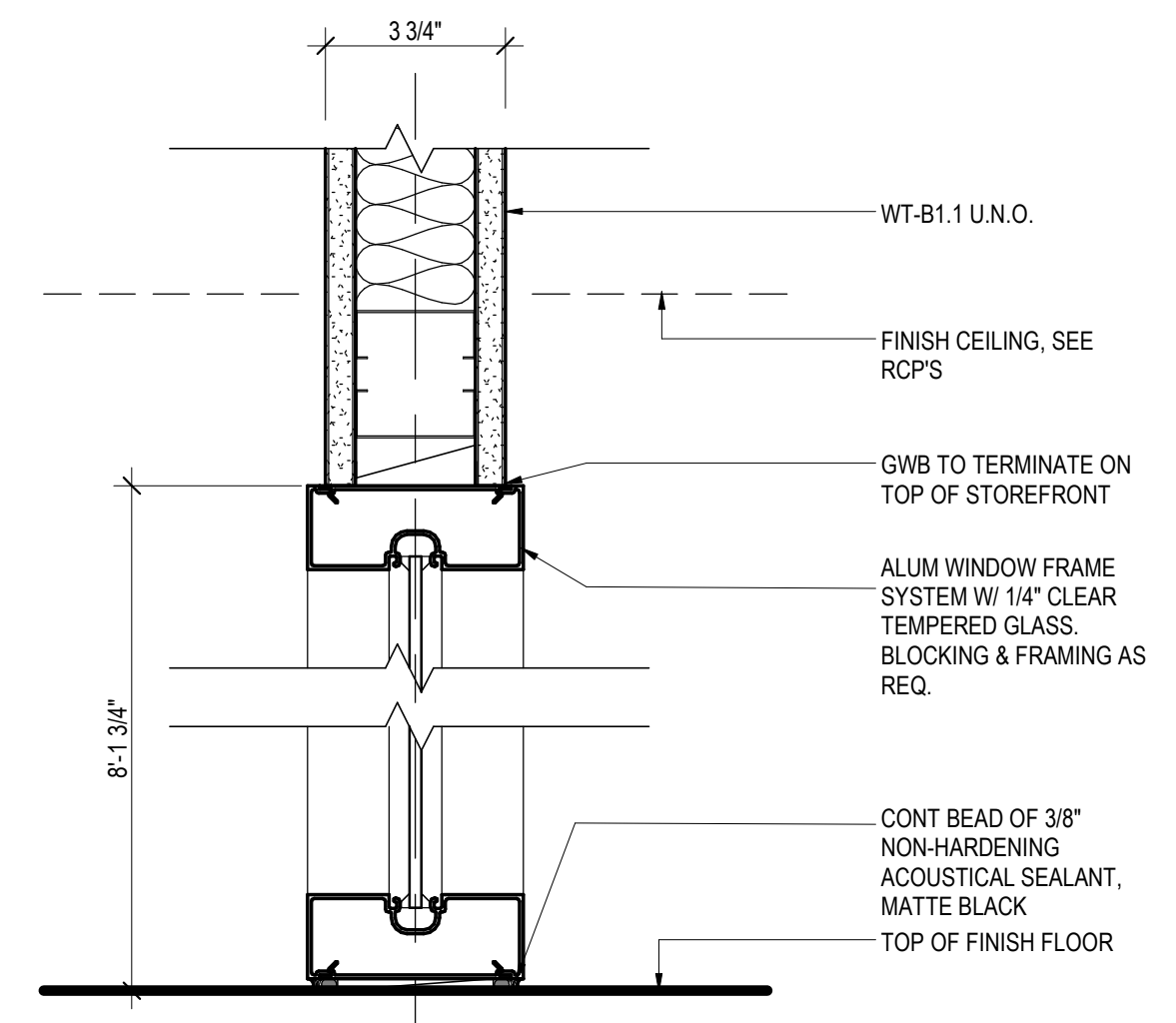
MULLION AT DIVIDING WALL 3" = 1'-0" 10



MULLION AT PERIMETER WALL 3" = 1'-0" 7



TYPICAL MULLION DETAIL 3" = 1'-0" 4



FULL HEIGHT STOREFRONT SYSTEM 3" = 1'-0" 1

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DRAWING HISTORY

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1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME

IAH-TERMINAL -
SECURITY EXIT
LANE

PROJECT LOCATION

GEORGE BUSH IAH
3500 NORTH
TERMINAL RD.
HOUSTON, TX 77032

PROJECT NUMBER

1004345

SHEET TITLE

STOREFRONT
DETAILS

SHEET NUMBER

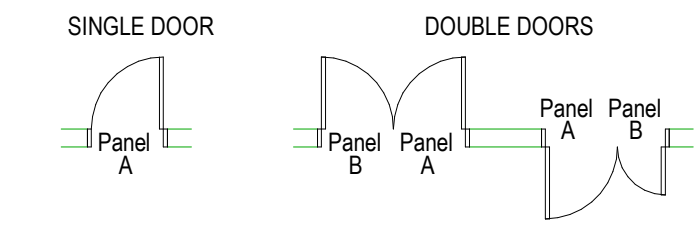
A013

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 DATESTAMP: 9/9/2021 11:29:04 AM

GENERAL NOTES

- A. PROVIDE UNDERCUT AS REQUIRED FOR THRESHOLD MECHANICAL REQUIREMENTS.
- B. PROVIDE TEMPERED GLASS WHERE REQUIRED BY CODE.
- C. PROVIDE SILICONE SEALANT OVER BACKER ROD AT ALL EXTERIOR FRAMES.
- D. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E. ALL HOLLOW METAL FRAMES TO BE WELDED FRAMES.
- F. SEE SHEETS A0.020 FOR FINISHES AND MATERIAL LEGENDS.
- G. USE GRAY GASKETS AT ALL GLASS DOORS UNLESS NOTED OTHERWISE.
- H. ALL ALUMINUM DOOR FRAMES TO BE CLEAR ANODIZED AS SPECIFIED U.N.O.
- I. ALL EXIT HARDWARE TO BE TIED TO FIRE ALARM SYSTEM

DOOR PANEL LEGEND



PANEL "A" WILL ALWAYS BE FROM LEFT HINGE SWINGING OUTWARD.

DOOR PANEL MATERIALS

- AL - Aluminum
- WD - Wood
- GL - Glass
- PL - Plastic Laminate

DOOR PANEL TYPES

- F - Flush Panel, Single
- DF - Flush Panel, Double
- SS - Storefront Panel, Single
- DS - Storefront Panel, Double
- MS - Storefront Panel, Multiple (More than 2)

FRAME MATERIALS

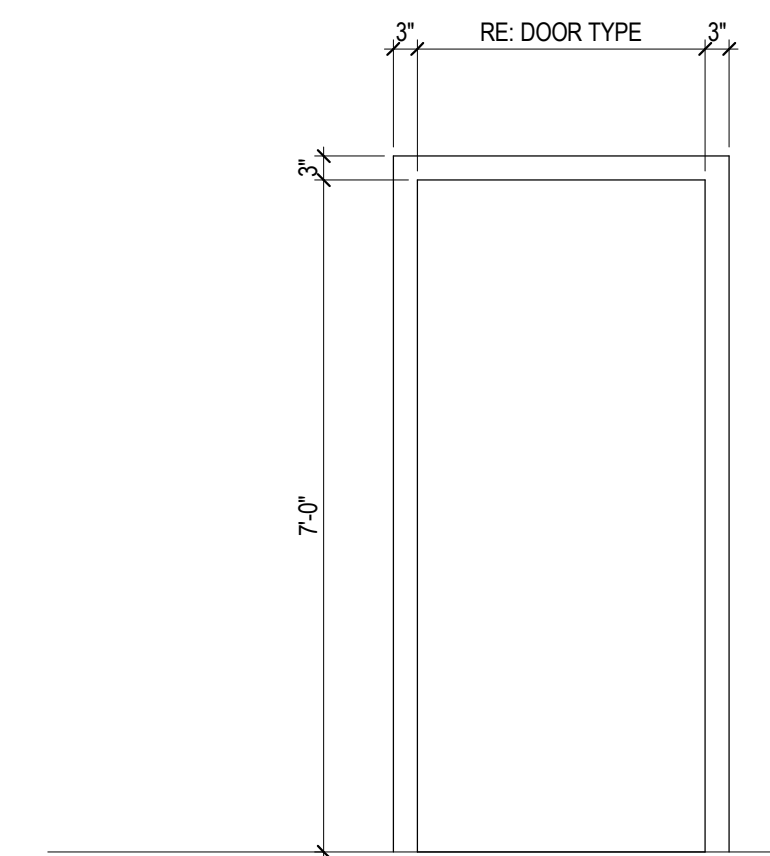
- AL - Aluminum
- HM - Hollow Metal
- WD - Wood
- DT - Detention Grade Steel

FRAME CONFIGURATION

- Transom: 0 - No Transom
 1 - Transom
- Sidelite: 0 - No Sidelite
 1 - 1 Sidelite
 2 - 2 Sidelites, 1 each side or both
- Frame Config: 1 - 2" Jamb/Head Wraps Wall
 2 - 2" Jamb/Head, Mir Standard
 3 - 2" Jamb, 4" Head, Masonry
 4 - ---
 5 - Transom & Sidelites Both Sides
 6 - Sidelite On Either Side
 7 - ---
 8 - ---
 H - Overhead Frame
 M - 4" Jamb/Head, Masonry
 W - Welded Wire
- Frame Legend: X ###
 ↑ Frame Configuration
 ↓ Side Lite
 ↓ Transom
 ↓ Material

DOOR SCHEDULE

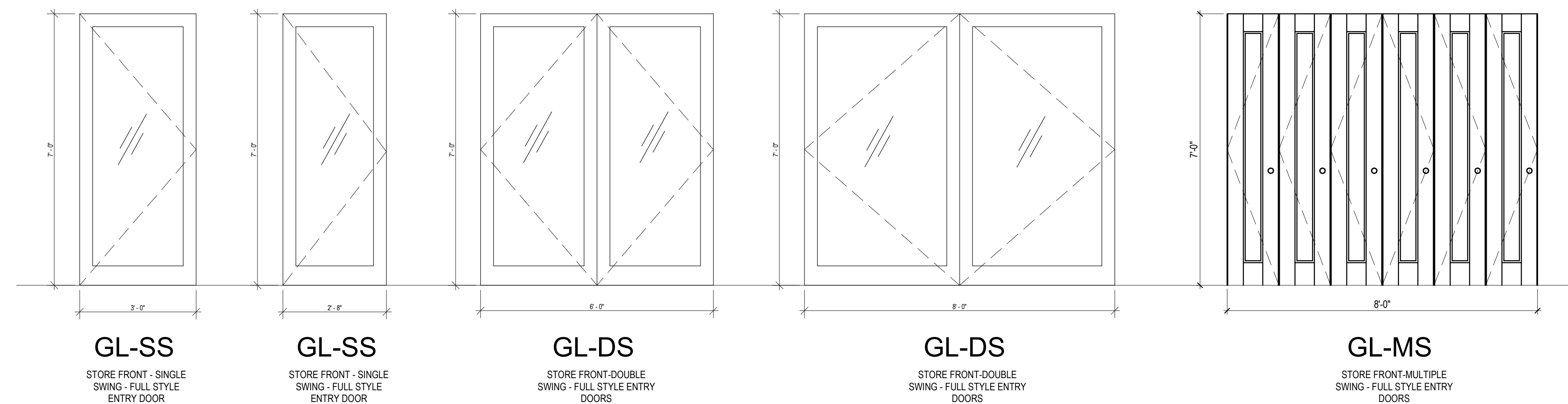
Mark	Room Name	Panel						Frame					General		Remarks
		Width	Height	THK	Matl	Panel	Finish	Matl	Type	Finish	Jamb	Head	Sill	Fire Rating	
LEVEL 02 - TICKETING DEPARTURES															
112	ELECTRIC PRE ALARM ZONE	8'-0"	7'-0"	1/2"	GL	MS	GL1	AL	002	PT1					
113	EXIT ALARM ZONE 01	8'-0"	7'-0"	1/2"	GL	DS	GL1	AL	002	PT1					
114	EXIT ALARM ZONE 02	8'-0"	7'-0"	1/2"	GL	MS	GL1	AL	002	PT1					
115	ELECTRICAL CHASEWAY	2'-8"	7'-0"	1/2"	GL	SS	GL1	AL	002	PT1					
116	EXIT ALARM ZONE 02	8'-0"	7'-0"	1/2"	GL	MS	GL1	AL	002	PT1					



AL-002

ALUMINUM FRAME - 3" WIDE

FRAME TYPES 1/2" = 1'-0" 4



DOOR TYPES 1/2" = 1'-0" 1

DOOR LEGEND 1/8" = 1'-0" 2

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 SECURITY EXIT
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PROJECT LOCATION
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 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

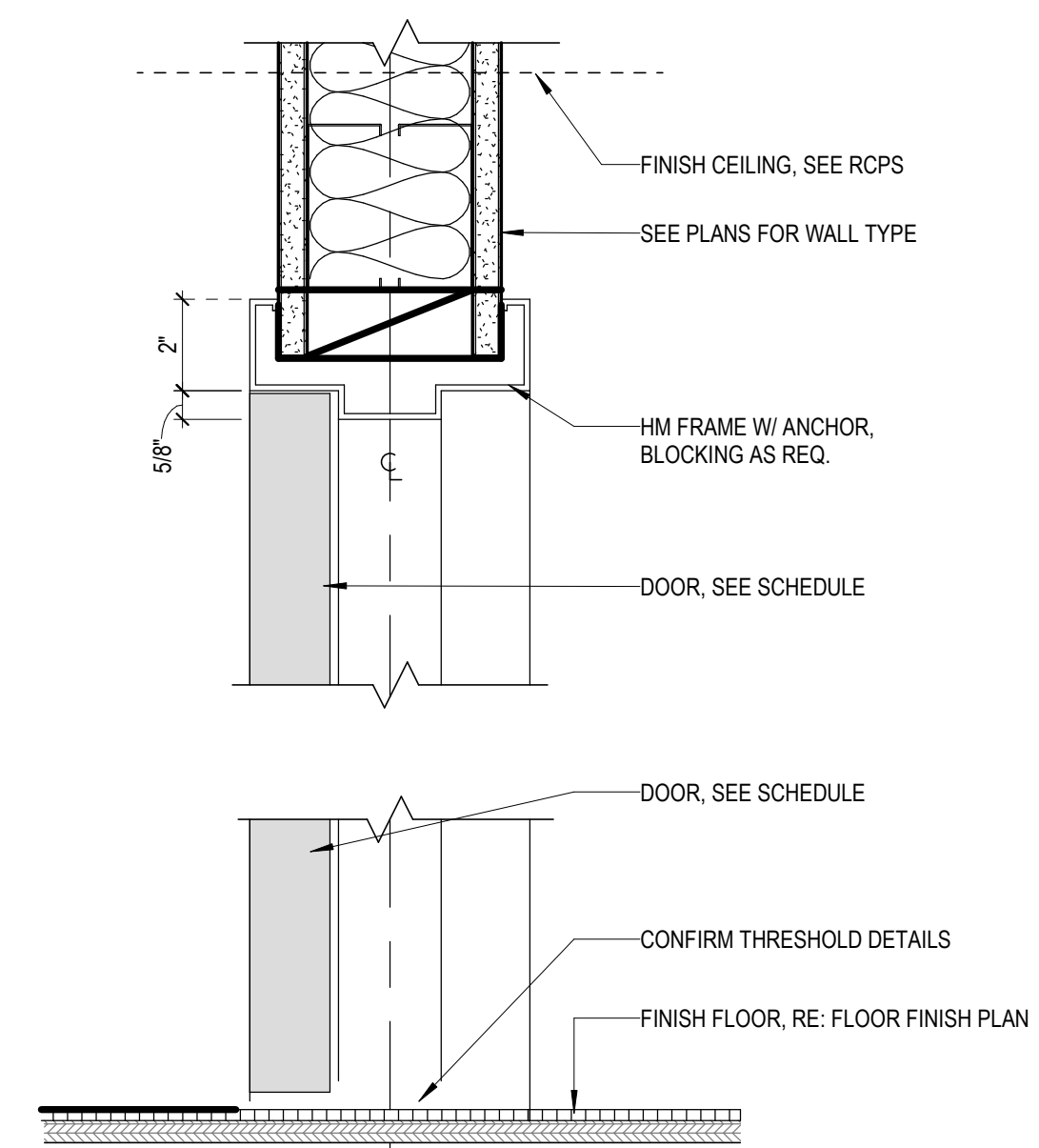
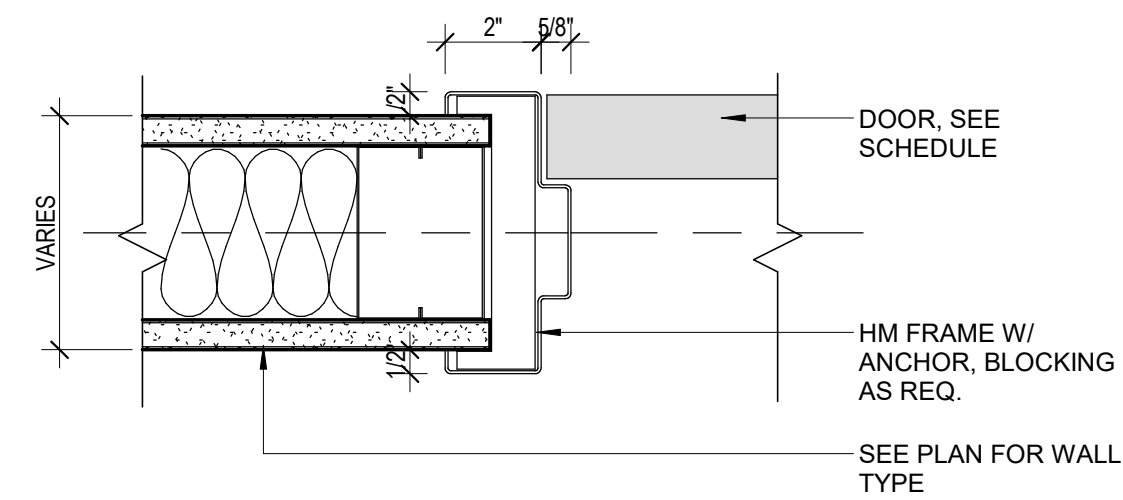
PROJECT NUMBER
 1004345

SHEET TITLE
 DOOR SCHEDULE

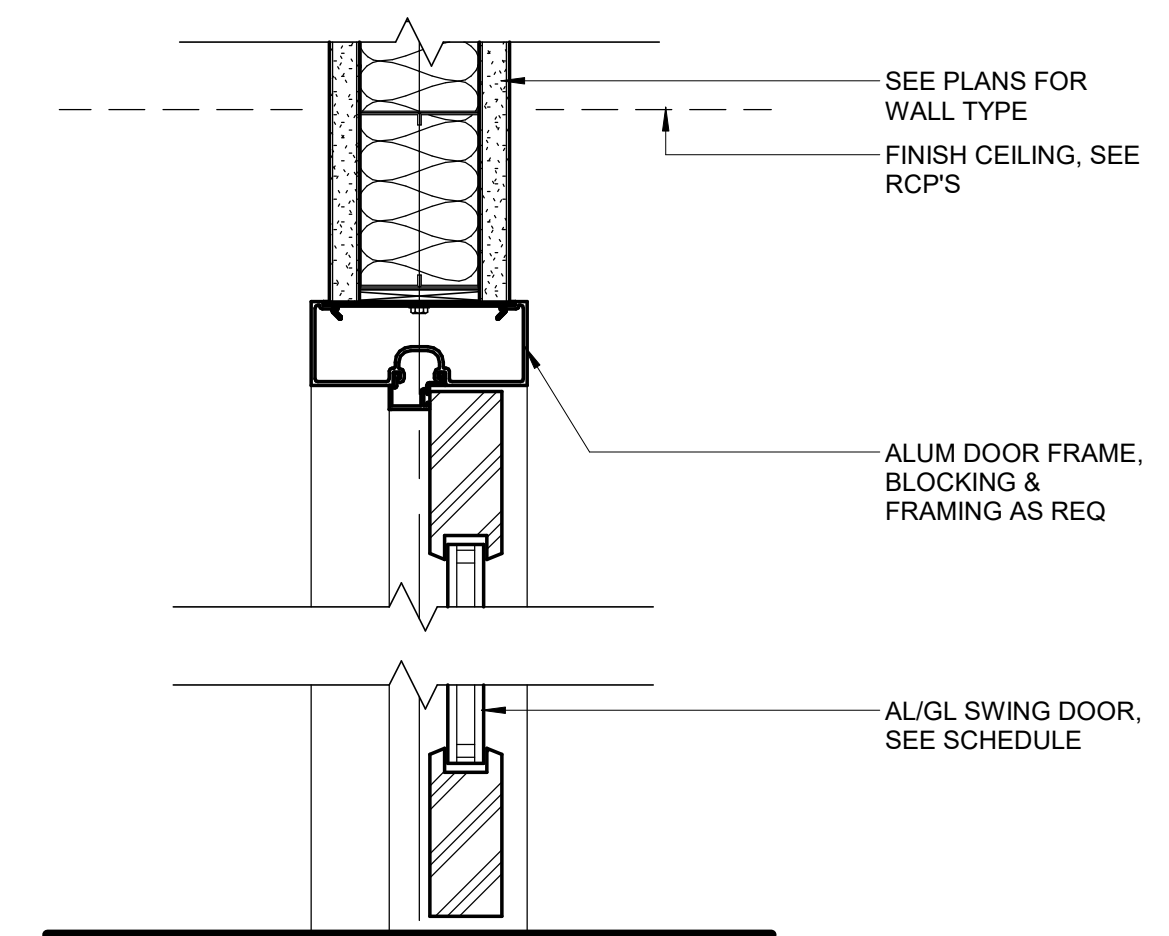
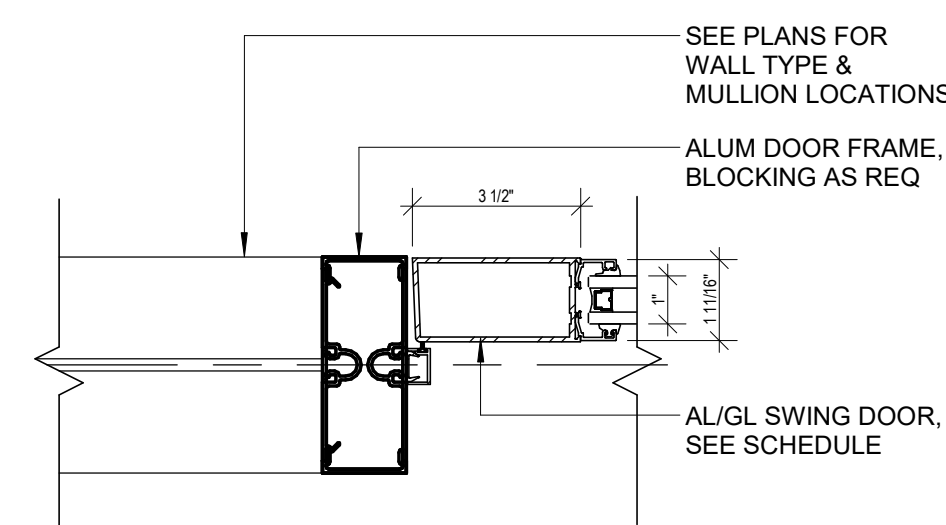
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A030

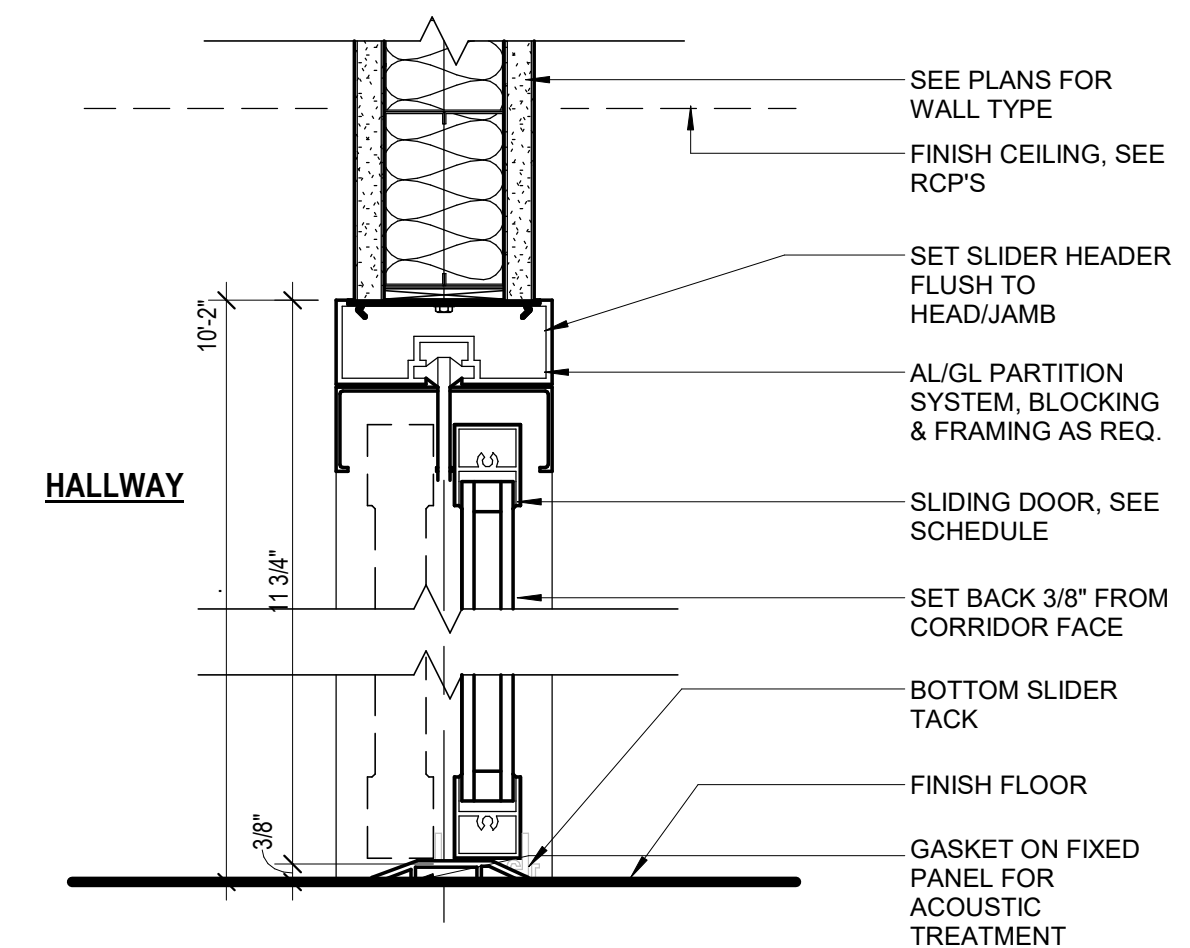
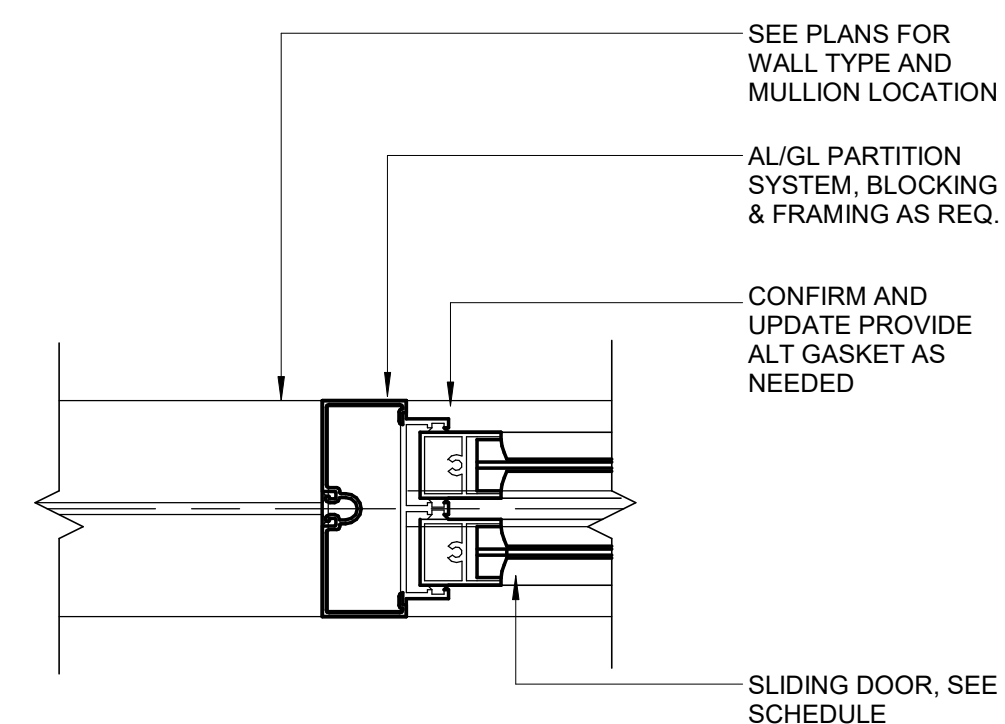
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 DATE/TIME: 8/11/2021 3:23:58 PM



FR3 - HOLLOW METAL FRAME TYPE 3" = 1'-0" **3**



FR2 - STOREFRONT SWING DOOR FRAME TYPE 3" = 1'-0" **2**



FR1 - STOREFRONT SLIDING DOOR FRAME TYPE 3" = 1'-0" **1**

CLIENT



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DEPARTMENT OF AVIATION
 RECOMMENDED:

HOUSTON AIRPORT SYSTEM
 DIRECTOR OR DESIGN REPRESENTATIVE
 HAS TIP 21-156 - IAH

REGISTRATION
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL -
 SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

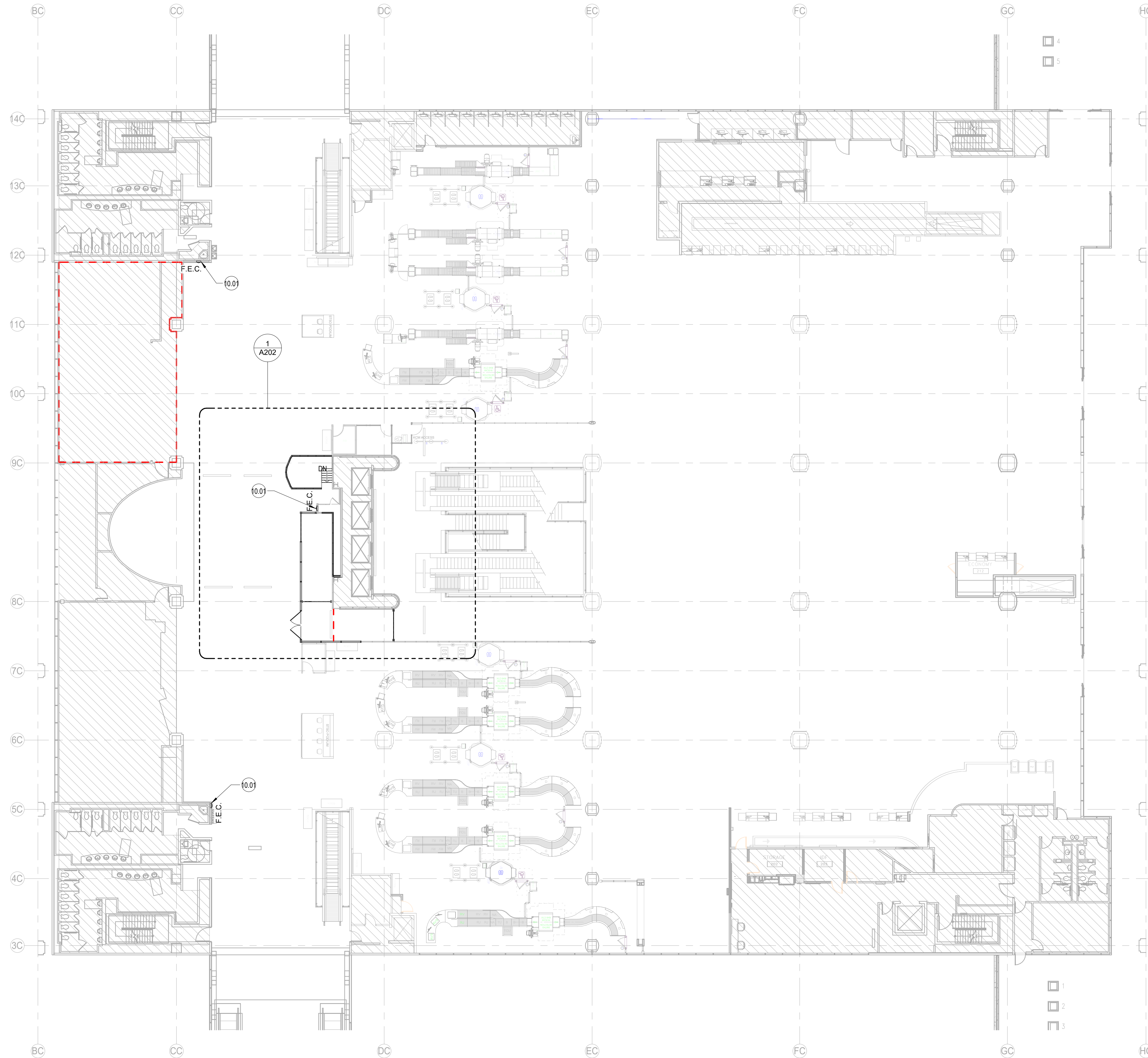
PROJECT NUMBER
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SHEET TITLE
 DOOR DETAILS

SHEET NUMBER

A035

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 DATE/TIME: 9/9/2021 11:30:49 AM



GENERAL NOTES

- DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
- REFER TO WALL PARTITION/STOREFRONT TYPES SHEET A011 FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.

LEGEND

- 1 A101 VIEW REFERENCE CALLOUT
- NOT INCLUDED IN SCOPE OF WORK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
10.01	PROVIDE NEW RECESSED MOUNTED FIRE EXTINGUISHER CABINET, REPAIR EXISTING FINISHES AS NEEDED

CLIENT



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ARCHITECT



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DEPARTMENT OF AVIATION
 RECOMMENDED:

HOUSTON AIRPORT SYSTEM
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL -
 SECURITY EXIT
 LANE

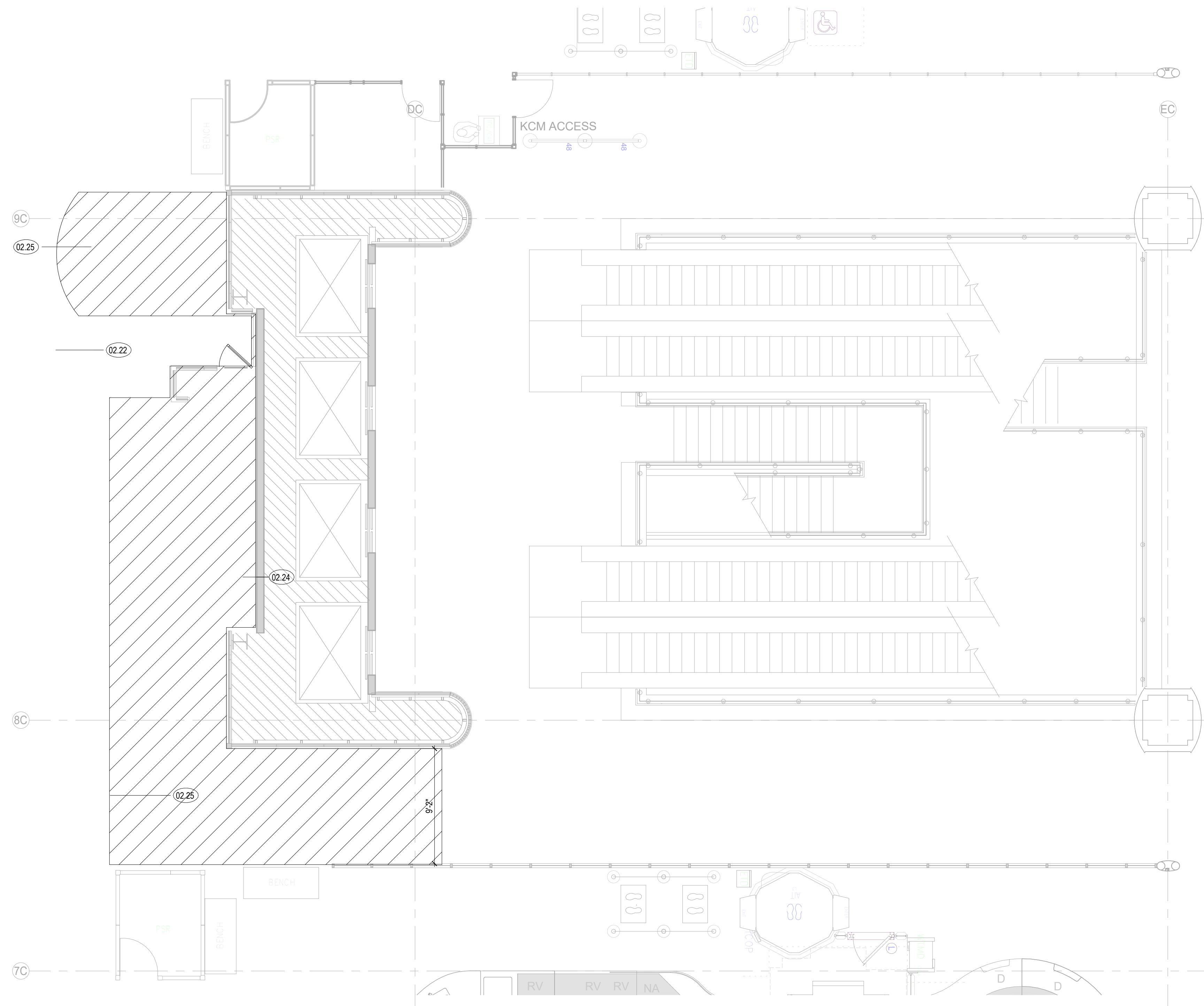
PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

SHEET TITLE
 OVERALL FLOOR
 PLAN - TERMINAL C
 CENTRAL

SHEET NUMBER

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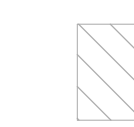
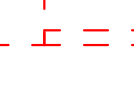

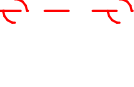
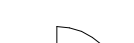


GENERAL NOTES - PLAN

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- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
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- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.
- REFER TO DOOR SCHEDULES AND DOOR TYPES SHEET A030.
- ALL SHAFT PENETRATING SLAB SHALL BE RATED 2H.
- CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (FRT).

GENERAL NOTES

- CONTRACTOR TO INSURE PROPER EXITING AT ALL TIMES DURING PHASING.
- PHASED WORK AND NIGHT HOURS, AS ALLOWED BY HAS, WILL BE REQUIRED AS A SCOPE OF THE WORK.
- THE WORK AREA SHALL BE LOCKED AND SECURED PER HAS AND TSA SECURITY REQUIREMENTS.
- PHASING PLANS SHOWN ARE GENERAL IN NATURE. THE CONTRACTOR IS TO PROVIDE AND MAINTAIN A DETAILED WORK PHASING PLAN FOR HAS/PGAL APPROVAL.

LEGEND

	EXISTING TO REMAIN
	NEW PARTITIONS
	KEYED NOTE
	NOT INCLUDED IN SCOPE OF WORK
	EXISTING WALL TO BE DEMOLISHED
	EXISTING DOOR TO BE DEMOLISHED
	EXISTING QUEING STATION TO BE DEMOLISHED
	TEMPORARY DUST WALLS
	EXISTING DOOR TO REMAIN
	SCOPE OF NEW WORK

PHASING PLAN KEYNOTES

02.22	PHASE TWO: INSTALL NEW DUST WALL. FIRE TREATED WOOD FRAME AND PLYWOOD, PAINTED WHITE TO PUBLIC SIDE. WALLS TO BE LOCKABLE.
02.24	PHASE THREE: DEMO WALLS SCOPE INSIDE THE WORK AREA.
02.25	PHASE FOUR: INSTALL NEW WORK PER SCOPE - TEST & CLOSEOUT.

CLIENT



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DEPARTMENT OF AVIATION
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

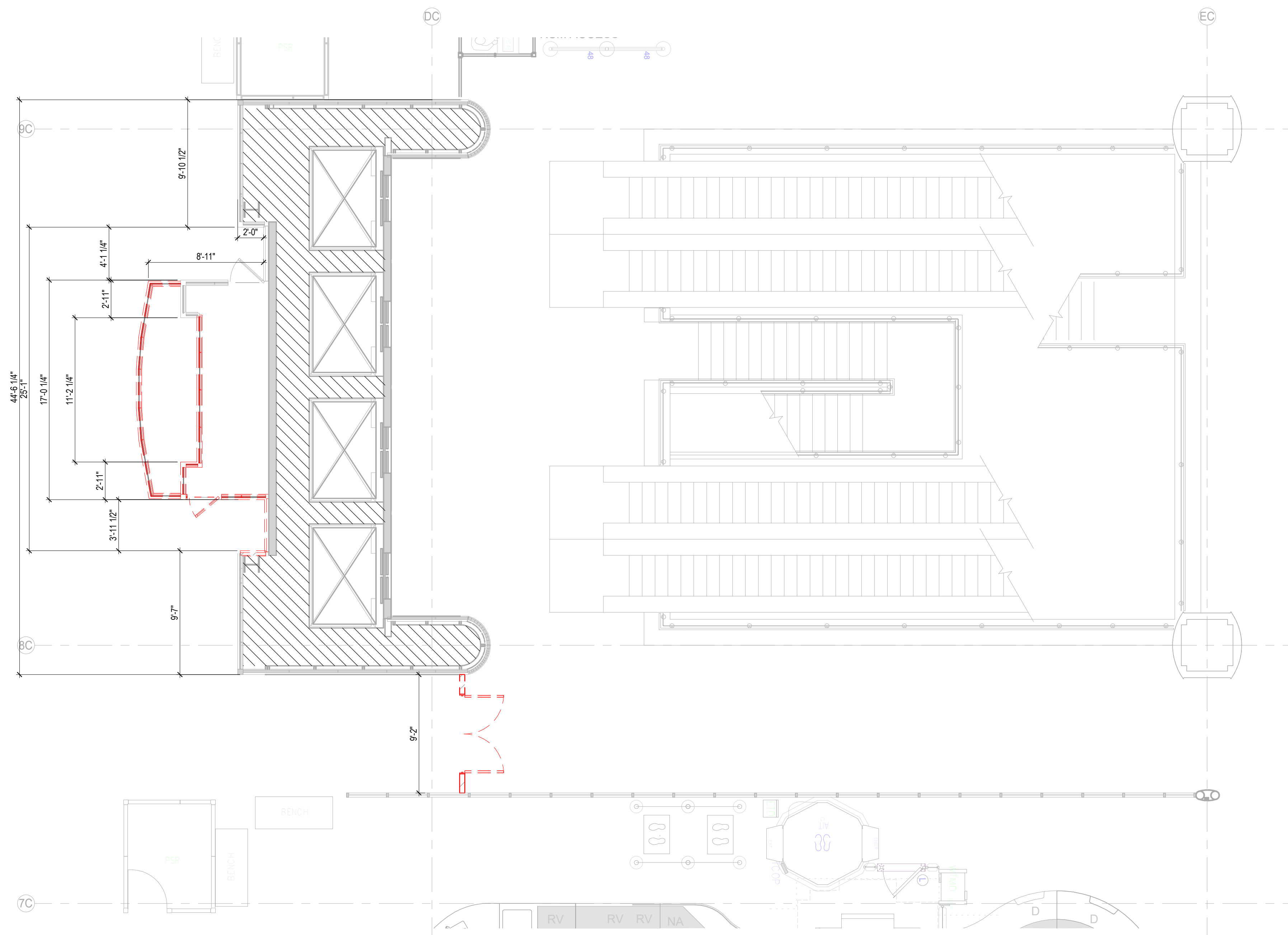
PROJECT NUMBER
 1004345

SHEET TITLE
 ENLARGED FLOOR
 PLAN - TERMINAL C
 CENTRAL -
 PHASING PLAN

SHEET NUMBER

AP202

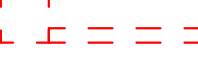






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GENERAL NOTES - DEMO

- DO NOT SCALE DIMENSIONS FROM DRAWINGS. ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
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- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.
- REFER TO DOOR SCHEDULES AND DOOR TYPES SHEET A030.
- ALL SHAFT PENETRATING SLAB SHALL BE RATED 2H.
- ARCHITECTURAL LIGHTING ARE FOR LOCATE AND TYPE REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS AND SPECIFICATIONS.
- USE UNISTRUT BELOW MECHANICAL DUCT OR STRUCTURAL BEAMS TO ACCOMMODATE LIGHT FIXTURES AS NEEDED.
- PATCH AND REPAIR EXISTING EXPOSED CEILING AS NEEDED.

LEGEND - DEMO

-  EXISTING WALL TO BE DEMOLISHED
-  EXISTING DOOR TO BE DEMOLISHED
-  EXISTING WALL TO REMAIN
-  EXISTING DOOR TO REMAIN
-  QUEUING STANCHION
-  KEYED NOTE
-  NOT INCLUDED IN SCOPE OF WORK

CLIENT



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DEPARTMENT OF AVIATION
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

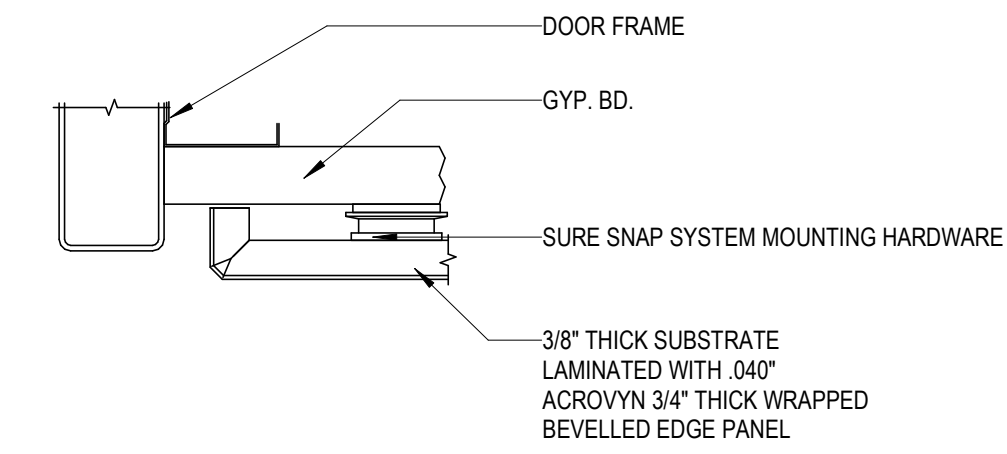
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SHEET TITLE
 DEMOLITION
 FLOOR PLAN -
 TERMINAL C
 CENTRAL

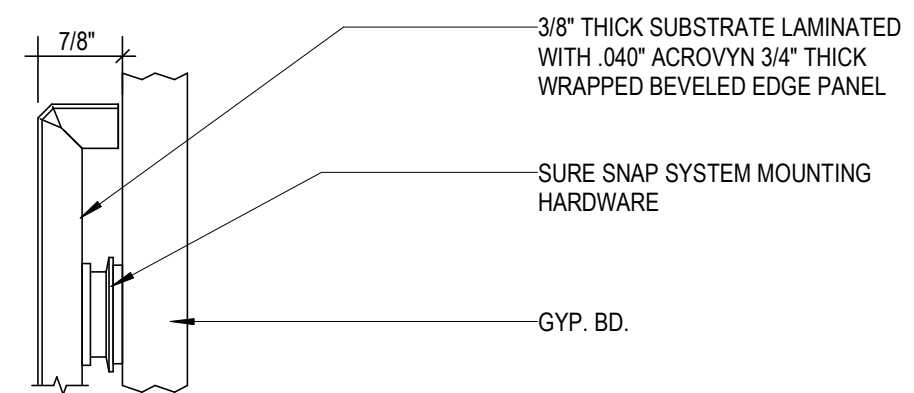
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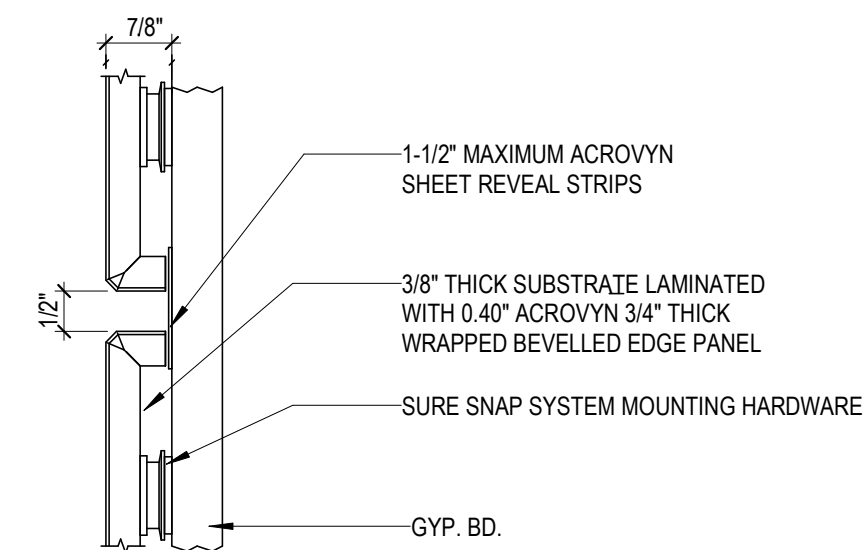
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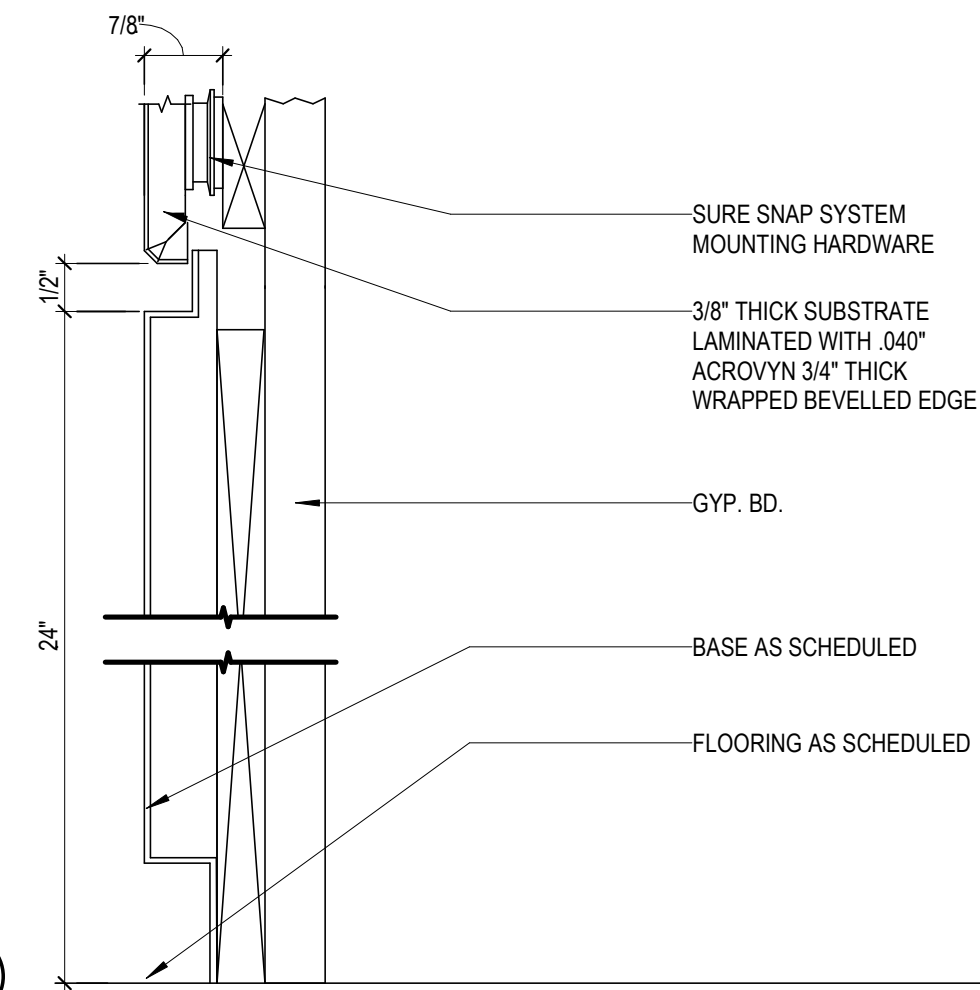
END WALL/DOOR FRAME DETAIL 6" = 1'-0" 5



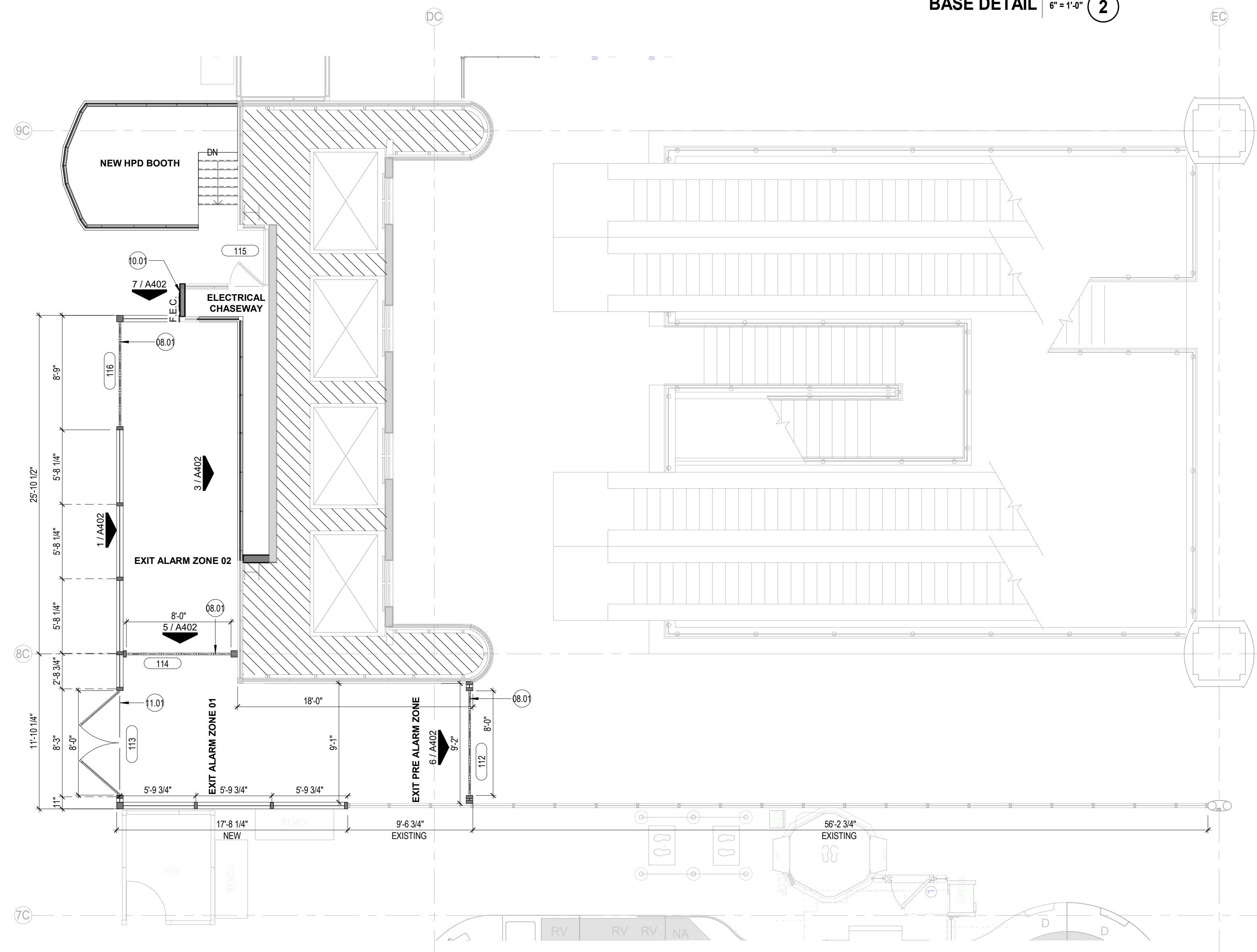
WAINSCOT TOP PANEL DETAIL 6" = 1'-0" 4



REVEAL DETAIL 6" = 1'-0" 3



BASE DETAIL 6" = 1'-0" 2



LEVEL 02 - TICKETING - FLOOR PLAN - TERMINAL C - ENLARGED 3/16" = 1'-0" 1

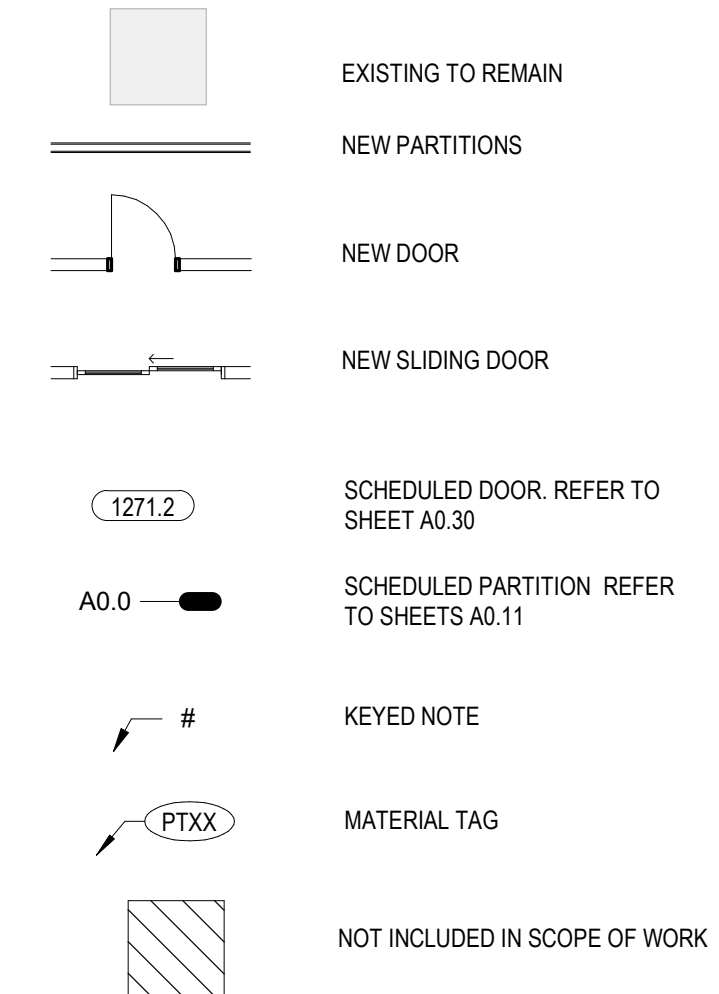
GENERAL NOTES - PLAN

- DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
- REFER TO WALL PARTITION/STOREFRONT TYPES SHEET A011 FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.
- REFER TO DOOR SCHEDULES AND DOOR TYPES SHEET A030.
- ALL SHAFT PENETRATING SLAB SHALL BE RATED 2H.
- CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (FRT).

GENERAL NOTES

- FIELD COORDINATE CONDUIT ROUTING
- EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES
- LABEL SECURITY CONDUITS. REFER TO NOTES ON SHEET G002.
- ALL SECURITY SYSTEM EQUIPMENT FURNISHINGS, CONDUIT, CABLING AND OTHER RELATED MATERIALS AND INTERFACES SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT CONSTRUCTION DOCUMENTS AND SCHEDULES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLING AND CONDUIT FROM SECURITY DEVICE LOCATIONS TO DESIGNATED NODES/ROOMS. CABLING SHALL BE OF APPROPRIATE TYPE AND GAUGE AS REQUIRED BY THE MANUFACTURER, FOR PROPER SYTEM OPERATION. CONTRACTOR SHALL ENSURE CABLES TO EACH DEVICE PROVIDE SUFFICIENT VOLTAGE, OR SIGNAL STRENGTH TO OPERATE WITHIN MANUFACTURERS SPECIFIED LIMITS.
- CONTRACTOR SHALL COORDINATE EXACT DEVICE MOUNTING LOCATIONS WITH OWNERS DESIGNATED REPRESENTATIVE AND OTHER TRADES PRIOR TO INSTALLATION OF DEVICES AND RELATED INFRASTRUCTURE.
- CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OWNERS DESIGNATED REPRESENTATIVE FINAL FIELD OF VIEW OF SECURITY CAMERAS.
- ALL SECURITY CAMERAS SHALL BE PROVIDED WITH APPROPRIATE HOUSING AND MOUNTS IN IDENTIFIED LOCATIONS.
- CONTRACTOR SHALL PATCH AND REPAIR ANY SURFACE AFFECTED FROM INSTALLATION IN THE COURSE OF THE SCOPE OF WORK TO ORIGINAL OR MATCHING CONDITIONS.
- EXISTING SECURITY INFRASTRUCTURE AND COMPONENTS AFFECTED BY CONSTRUCTION SHALL BE REROUTED AND/OR DECOMMISSIONED.

LEGEND



KEYNOTE LEGEND

NUMBER	DESCRIPTION
08.01	EXIT LANE 6 PANEL SLIDING DOORS
10.01	PROVIDE NEW RECESSED MOUNTED FIRE EXTINGUISHER CABINET, REPAIR EXISTING FINISHES AS NEEDED
11.01	VEHICULAR BYPASS DOORS

CLIENT



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DEPARTMENT OF AVIATION
 RECOMMENDED:

HOUSTON AIRPORT SYSTEM
 DIRECTOR OR DESIGN REPRESENTATIVE
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME

IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION

GEORGE BUSH IAH
 3500 NORTH TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER

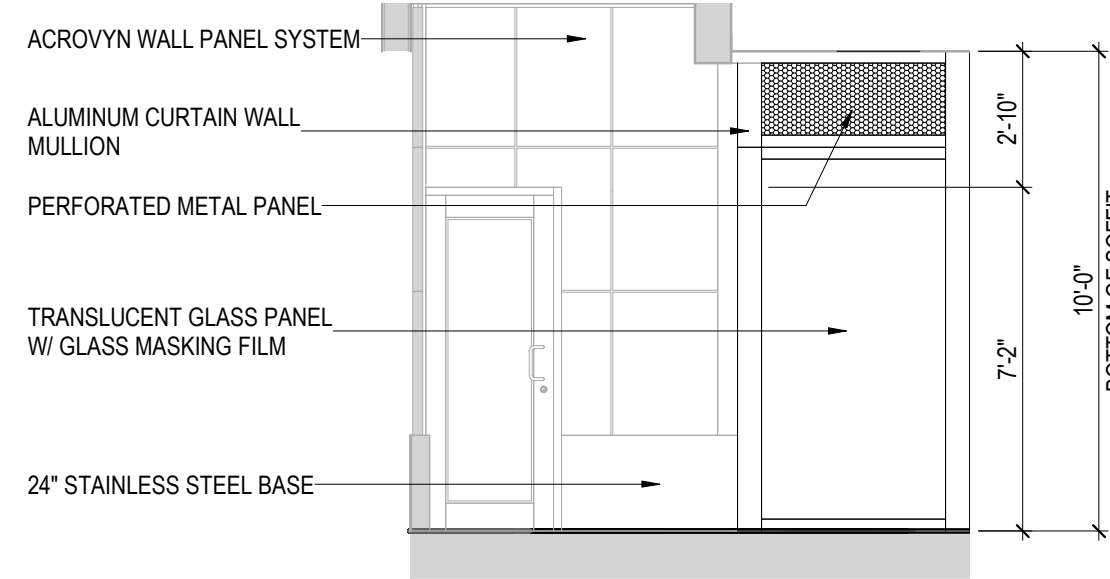
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SHEET TITLE

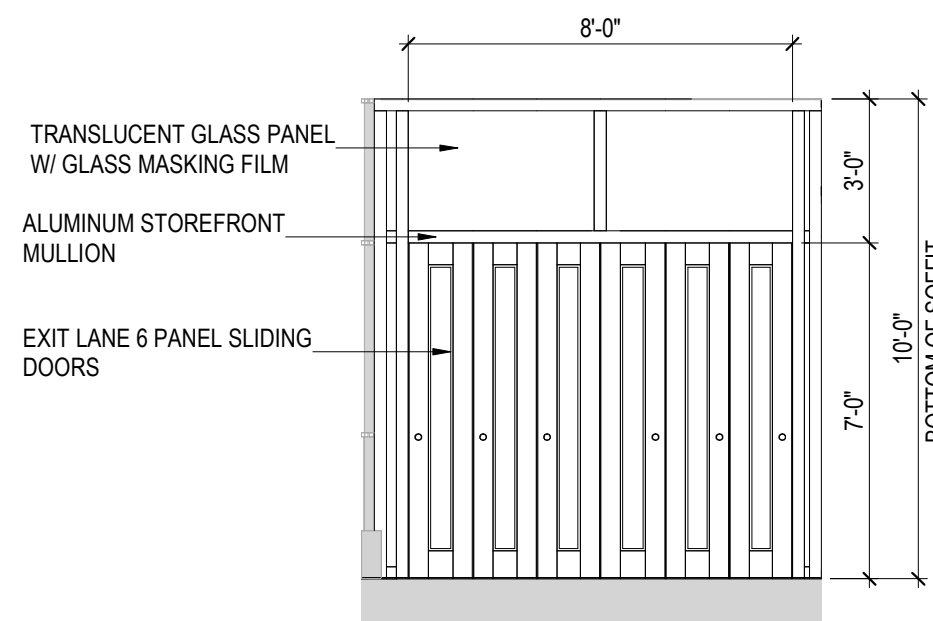
ENLARGED FLOOR PLAN - TERMINAL C CENTRAL

SHEET NUMBER

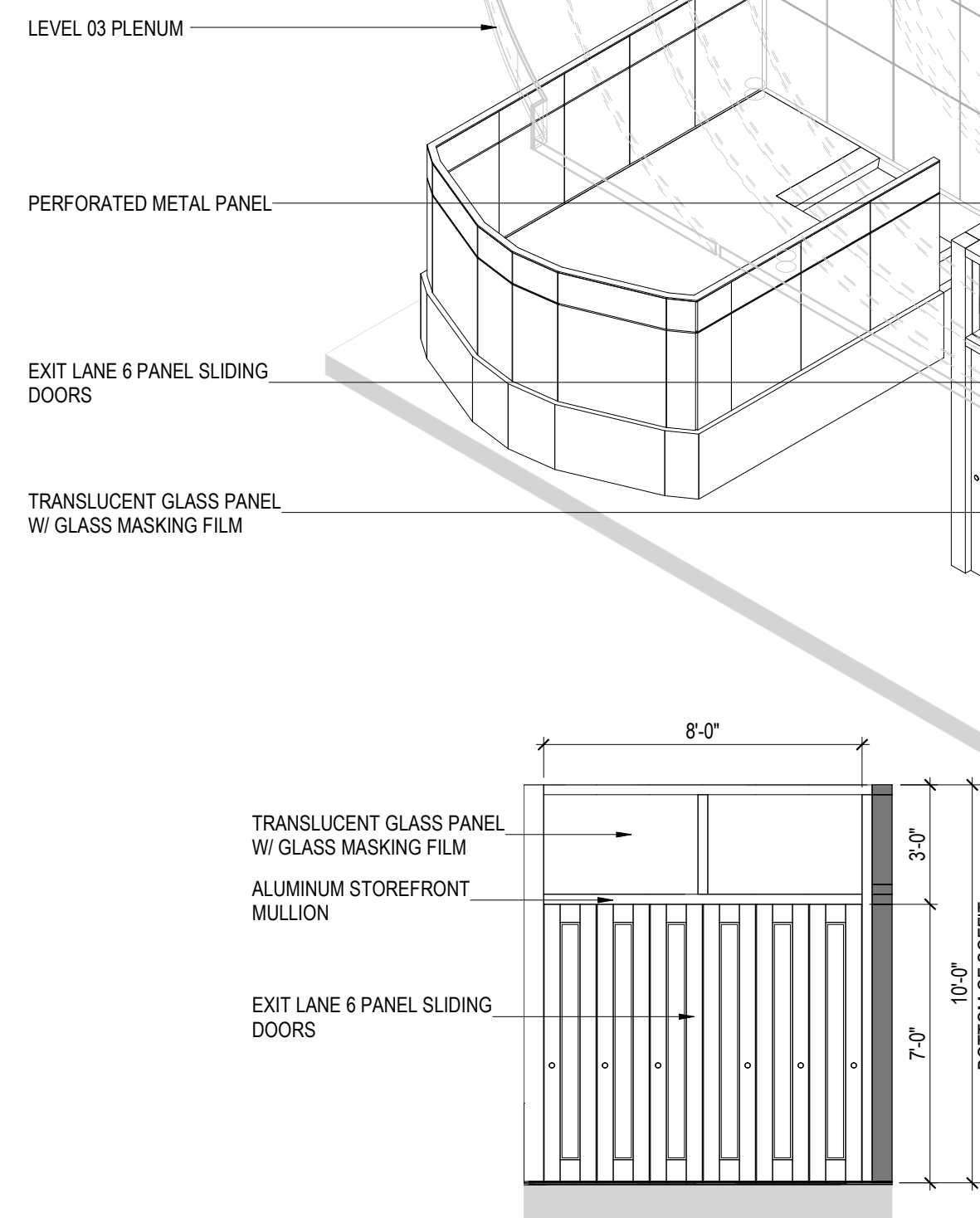
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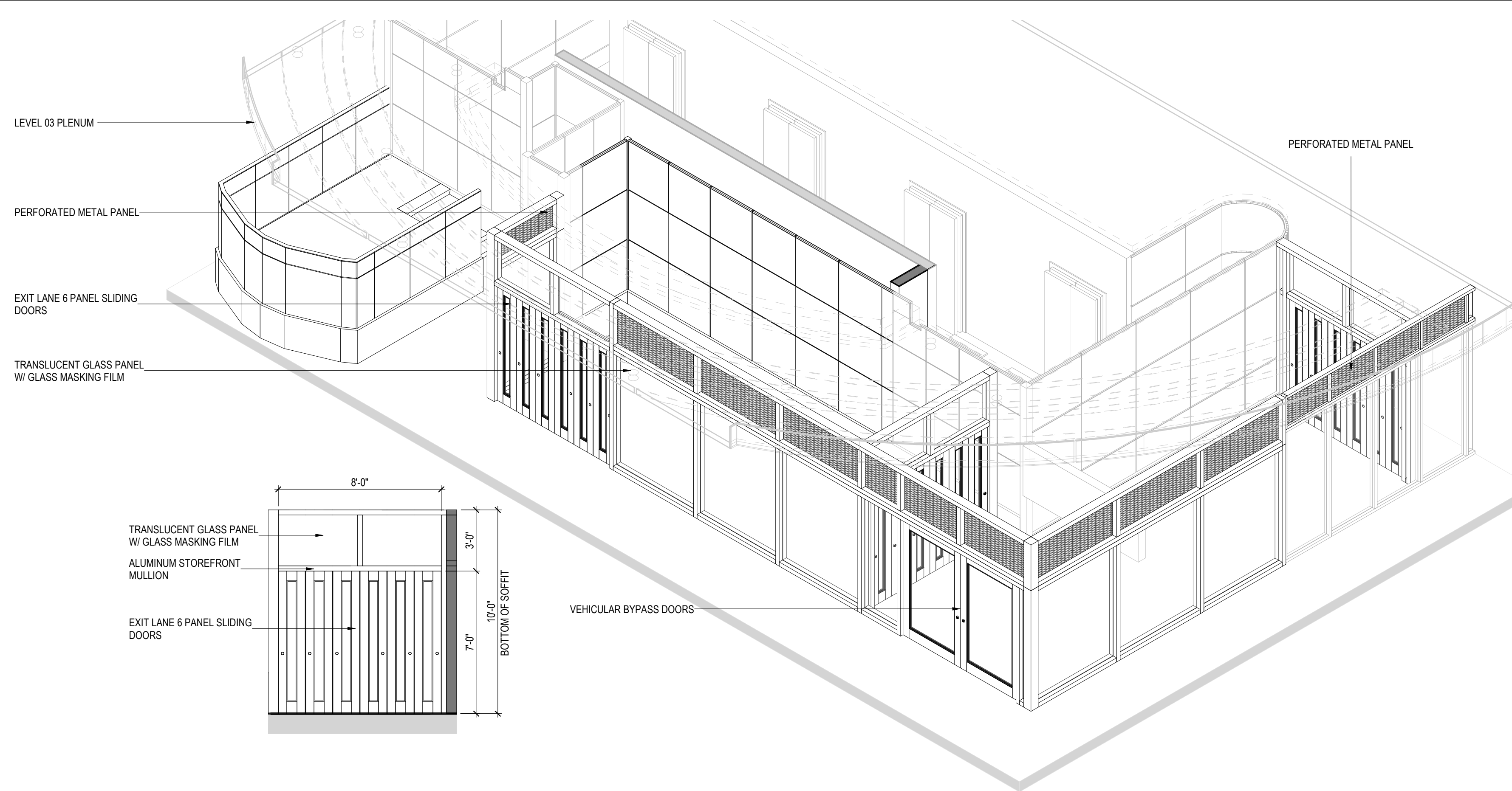
ELEVATION 07 - TERM C 1/4" = 1'-0" **7**



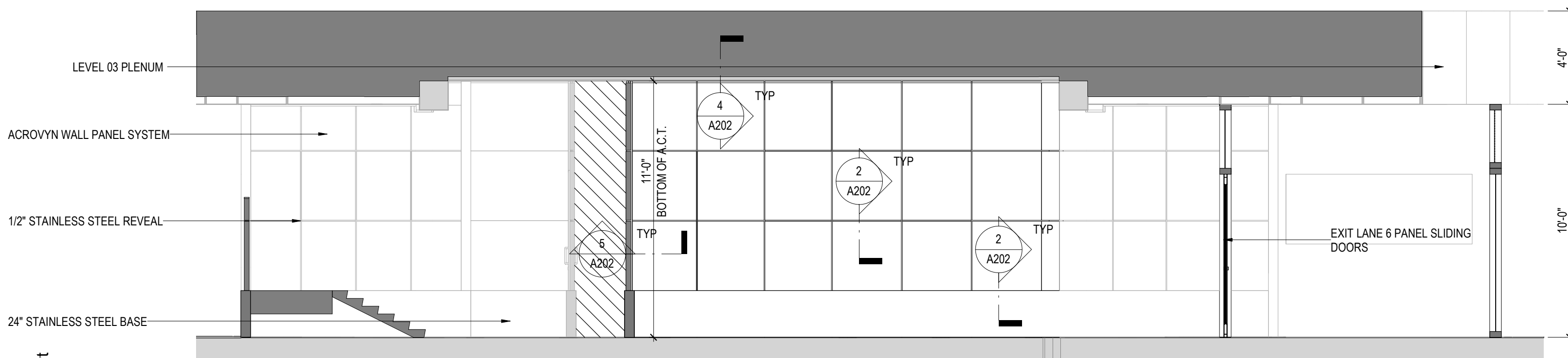
ELEVATION 06 - TERM C 1/4" = 1'-0" **6**



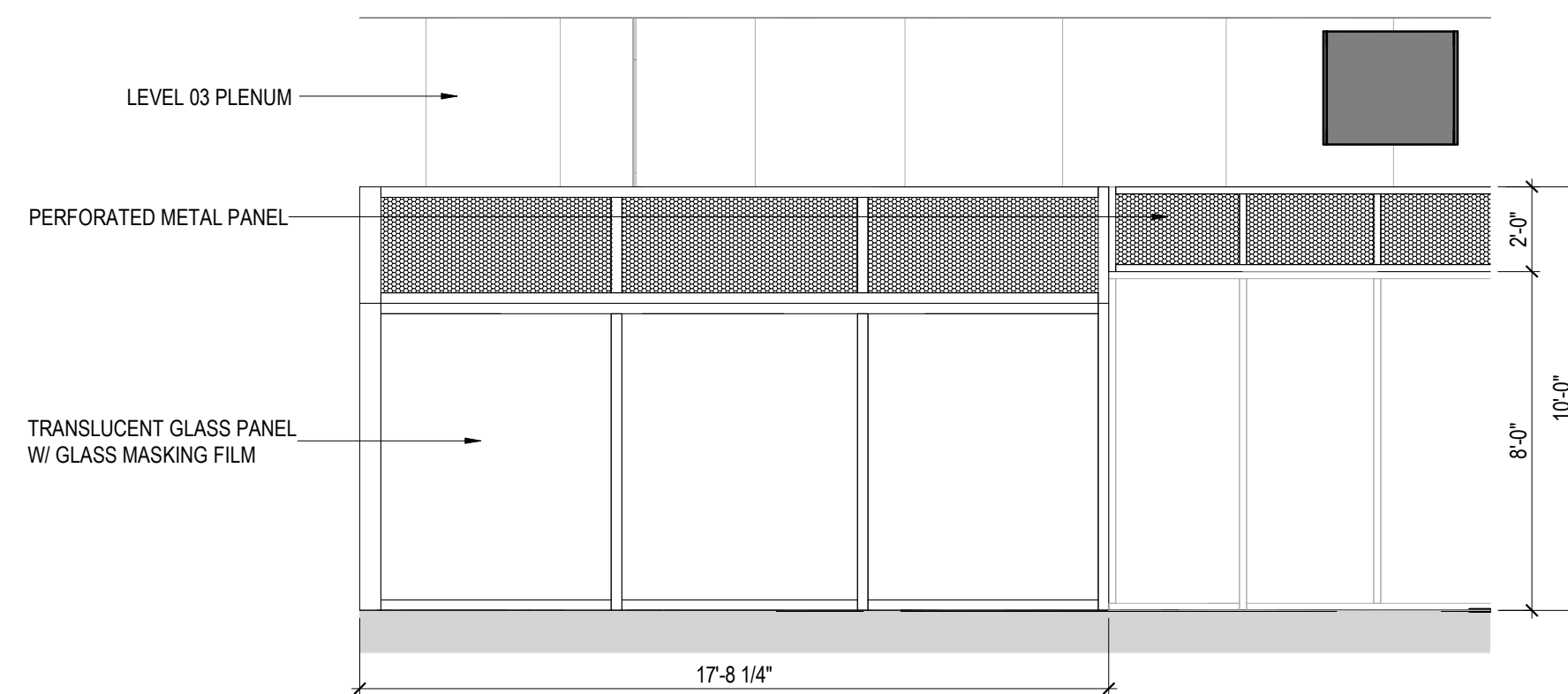
ELEVATION 05 - TERM C 1/4" = 1'-0" **5**



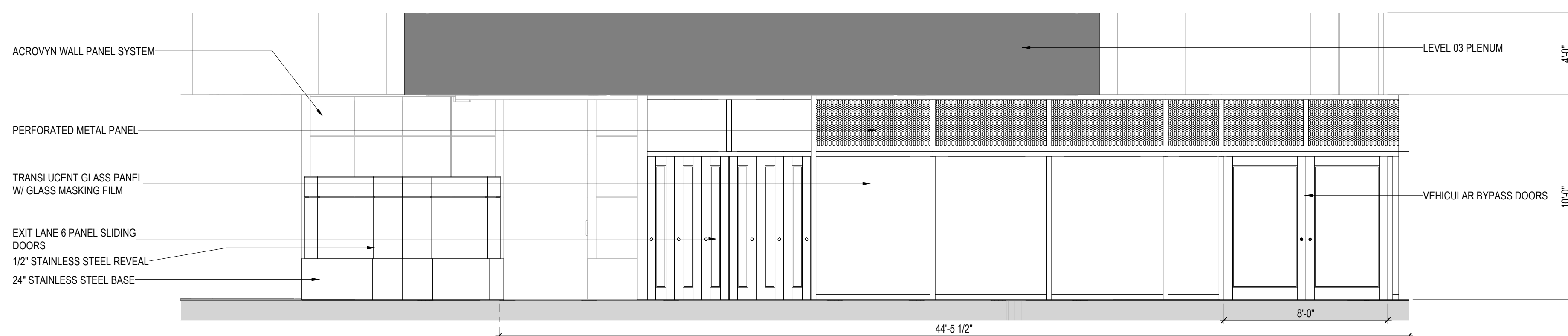
INTERIOR AXO - TERM C **4**



INTERIOR ELEVATION 03 - TERM C 1/4" = 1'-0" **3**



INTERIOR ELEVATION 02 - TERM C 1/4" = 1'-0" **2**



INTERIOR ELEVATION 01 - TERM C 1/4" = 1'-0" **1**

GENERAL NOTES

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- REFER TO WALL PARTITION/STOREFRONT TYPES SHEET A011 FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.

LEGEND

- SIM VIEW REFERENCE CALLOUT
- NOT INCLUDED IN SCOPE OF WORK

CLIENT



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DEPARTMENT OF AVIATION
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HOUSTON AIRPORT SYSTEM
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
GEORGE BUSH IAH
3500 NORTH
TERMINAL RD.
HOUSTON, TX 77032

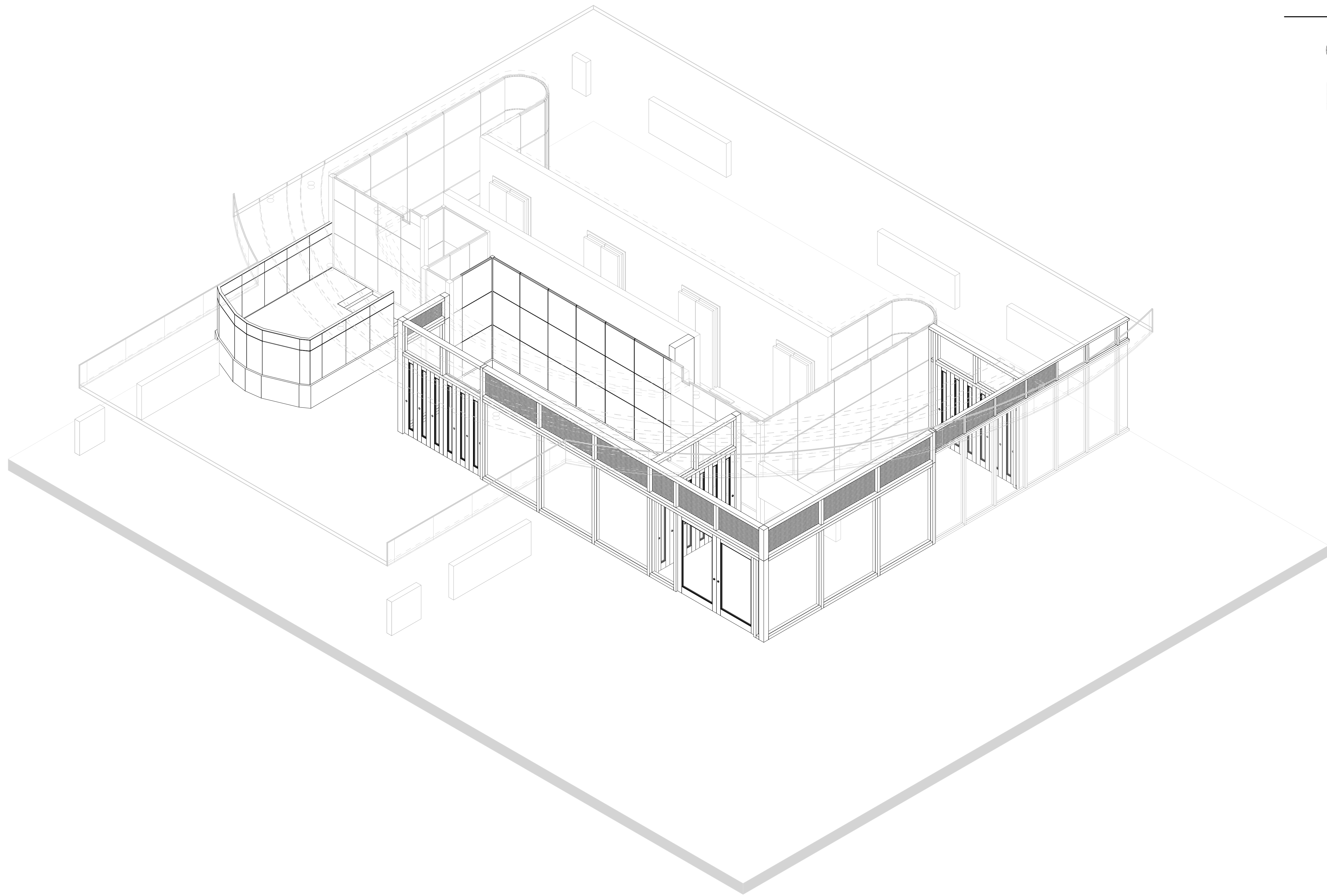
PROJECT NUMBER
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SHEET TITLE
ENLARGED
ELEVATIONS & AXO
- TERMINAL C
CENTRAL

SHEET NUMBER

A402

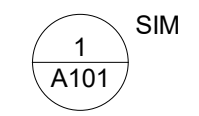
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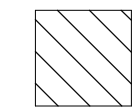
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- REFER TO WALL PARTITION/STOREFRONT TYPES SHEET A011 FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED ELEVATIONS AND AXO ON SERIES SHEETS A400.

LEGEND



SIM VIEW REFERENCE CALLOUT



NOT INCLUDED IN SCOPE OF WORK

CLIENT



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DEPARTMENT OF AVIATION
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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL -
 SECURITY EXIT
 LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

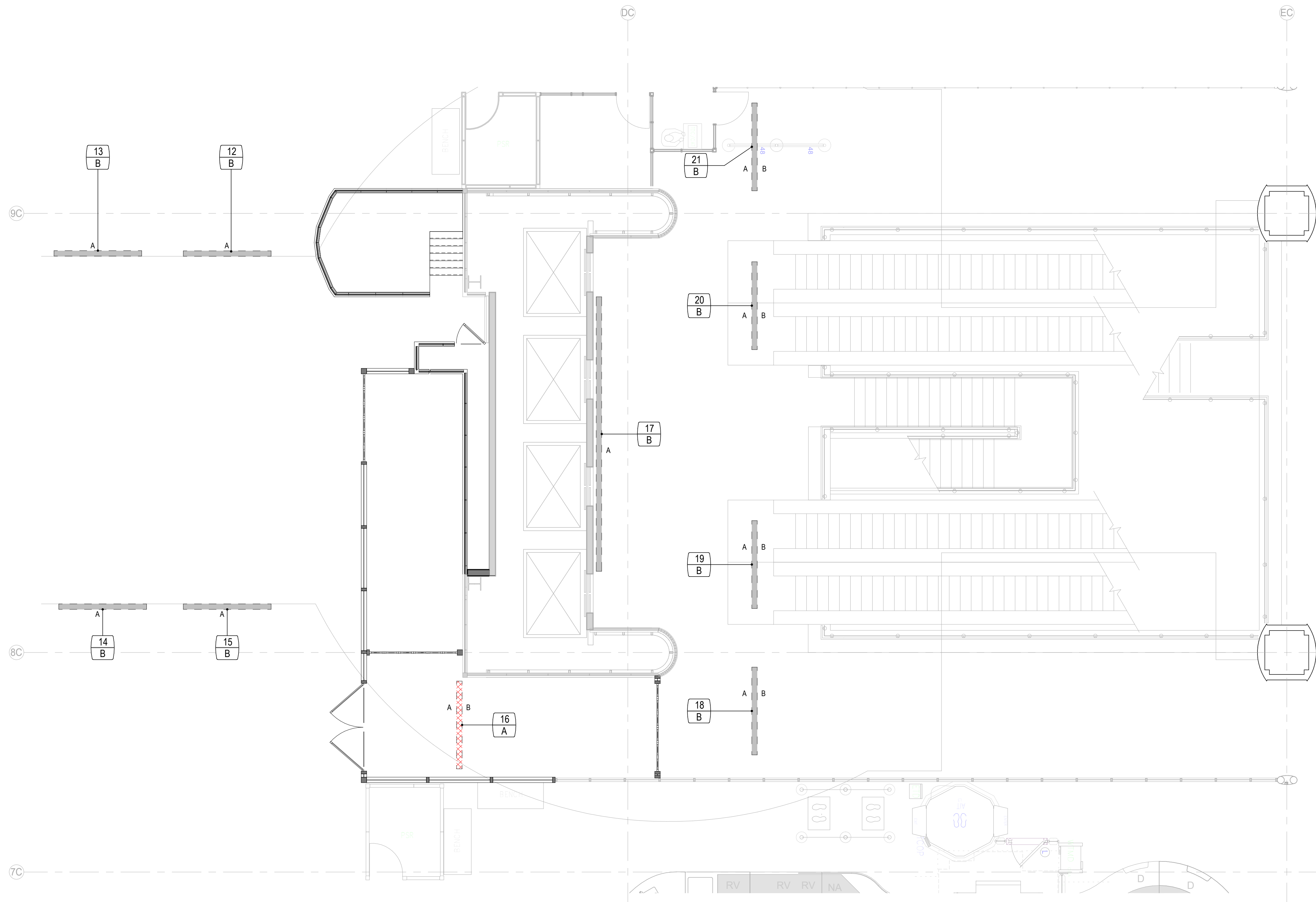
PROJECT NUMBER
 1004345

SHEET TITLE
 ENLARGED AXO -
 TERMINAL C
 CENTRAL

SHEET NUMBER

A502

FILE NAME: C:\Revit\Local\IAH-TERM - SECURITY EXIT LANE_VQuijada@pgal.com.rvt
 DATE/TIME: 8/11/2021 3:24:57 PM



LEVEL 02 - DEMO SIGNAGE - FLOOR PLAN - TERMINAL C - ENLARGED 3/16" = 1'-0" 2

KEYNOTES

- A EXISTING CEILING MOUNTED SIGN TO BE CAREFULLY REMOVED AND REMOUNTED. IF DAMAGED, SIGN SHALL BE REPLACED, PATCH/REPAIR AS REQUIRED.
- B EXISTING SIGN TO REMAIN, UNLESS NOTED OTHERWISE

GENERAL NOTES

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2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
4. ALL SHAFT PENETRATING SLAB SHALL BE RATED 2H.
5. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (FRT).

LEGEND

- EXISTING SIGNAGE TO REMAIN
- EXISTING TO BE REPLACED
- MARK KEYNOTE SIGNAGE TAG

IMAGE	MARK	NOTES
	12	B
	13	B
	14	B
	15	B
	16	A
	17	B
	18	B
	19	B
	20	B
	21	B

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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
 IAH-TERMINAL -
 SECURITY EXIT
 LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

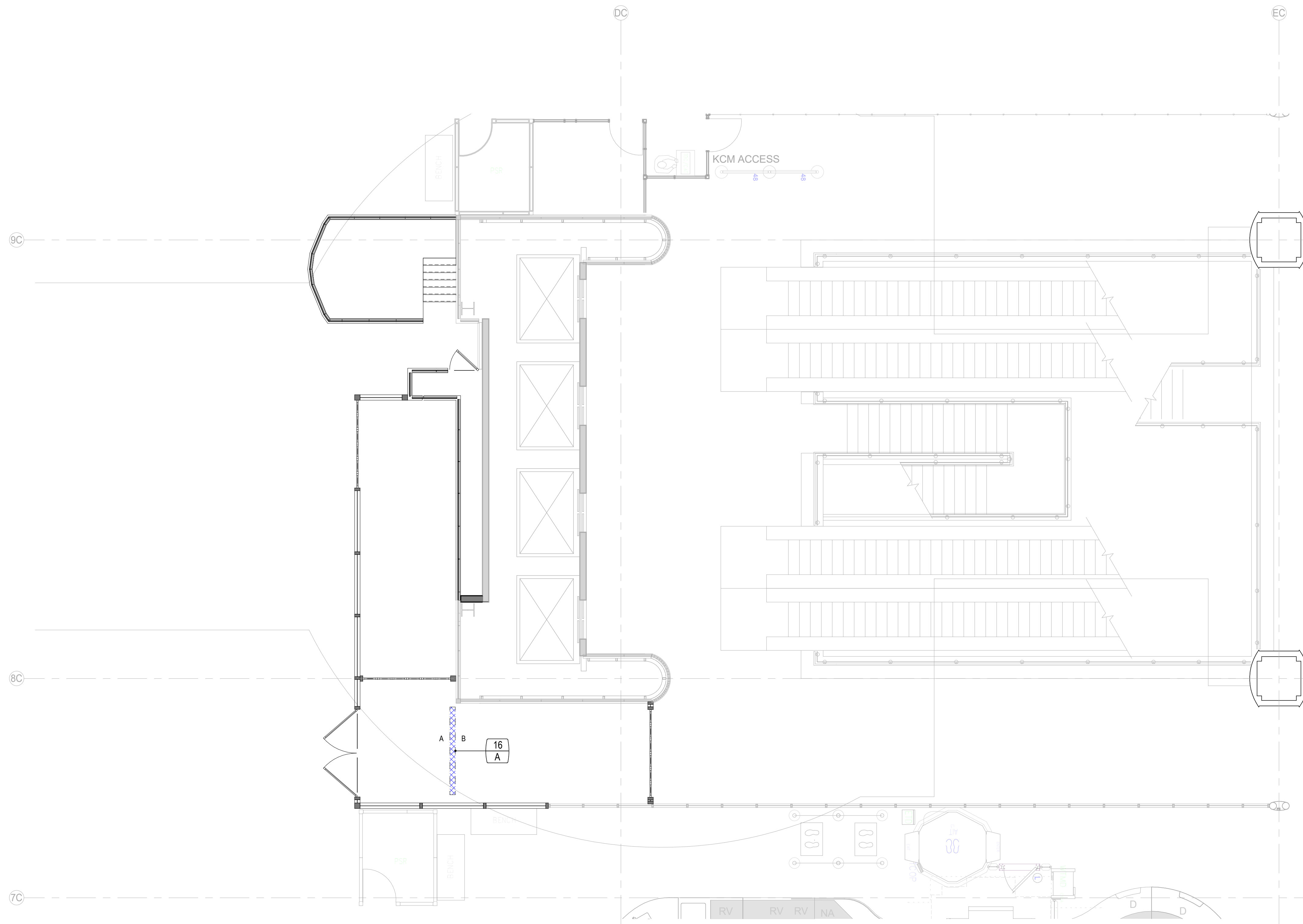
PROJECT NUMBER
 1004345

SHEET TITLE
 IAH TERMINAL C
 SIGNAGE DEMO
 PLAN

SHEET NUMBER

ADG202

FILE NAME: C:\Revit\Local\IAH-TERM - SECURITY EXIT LANE_VQuijada@pgal.com.rvt
 DATE/TIME: 8/11/2021 3:25:05 PM



KEYNOTES

A NEW MOUNTED SIGN IF EXISTING SIGN IS DAMAGED

GENERAL NOTES

- DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
- ALL SHAFT PENETRATING SLAB SHALL BE RATED 2H.
- CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (FRT).

LEGEND

- NEW SIGNAGE
- KEYNOTE SIGNAGE TAG

IMAGE	MARK	NOTES
	16	A

LEVEL 02 - SIGNAGE - FLOOR PLAN - TERMINAL C - ENLARGED 3/16" = 1'-0" 1

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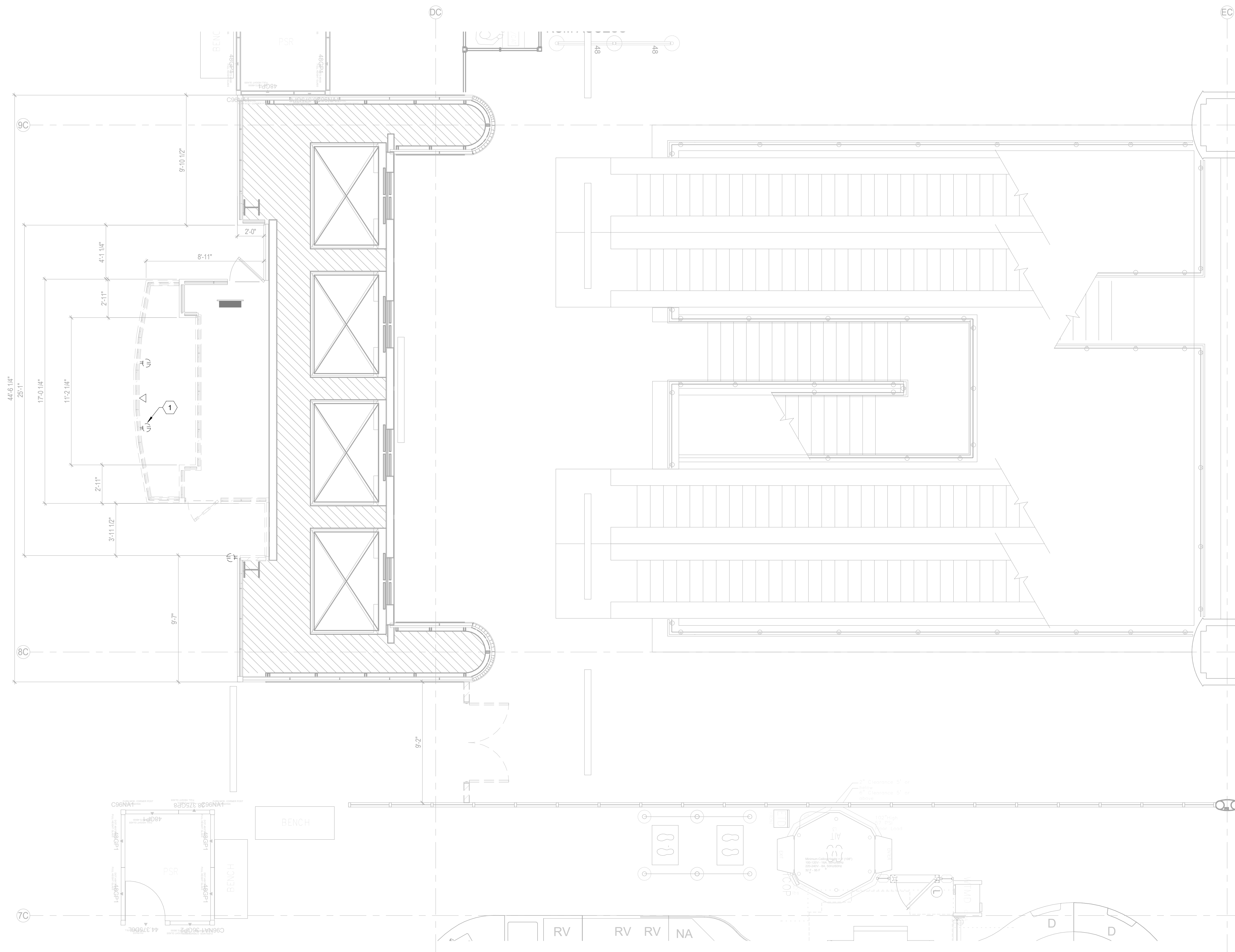
PROJECT NUMBER
 1004345

SHEET TITLE
 IAH TERMINAL C
 SIGNAGE PLAN

SHEET NUMBER

AG202

FILE NAME: C:\Users\jalexander\Documents\02.18018_HAS_Exit_Lanes_LOA_IAH_CENTRAL_R19_jalexander@voltageinc.com.rvt
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KEYNOTES

NUMBER	NOTES
1	REMOVE AND RELOCATE EXISTING CIRCUITS SERVING HPD BOOTH TO NEW LOCATION SHOWN. PROVIDE BLANK COVER PLATE FOR EXISTING OUTLETS ONCE CONDUCTORS HAVE BEEN REMOVED. ALL RELOCATED DEVICES SHALL BE INSTALLED PER H.A.S. STANDARDS AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO H.A.S. I.T. SPECIFICATIONS.

DEMOLITION NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS.
- THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS DEEMED USEABLE AS SPARE PARTS.
- EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM EXISTING DOCUMENTS AND FIELD INVESTIGATION. IT IS RECOMMENDED FOR CONTRACTOR TO VISIT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
- THE CONTRACTOR SHALL INSURE THAT CONDUITS REMAINING WITHIN THE PROJECT AREA ARE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. CONDUITS THAT ARE ATTACHED TO ITEMS BEING REMOVED DURING DEMOLITION SHALL BE SUPPORTED FROM THE STRUCTURE PRIOR TO REMOVING ITEM.
- EXISTING PANEL DIRECTORIES SHALL BE UPDATED TO REFLECT CURRENT CONDITIONS.
- CONTRACTOR SHALL PATCH, PAINT AND MATCH FINISH WITH EXISTING SURFACES TO REMAIN WHERE ELECTRICAL DEVICES ARE BEING REMOVED.
- CONTRACTOR SHALL REVIEW NEW FLOOR PLANS FOR DEVICES TO REMAIN PRIOR TO DEMOLITION. EXISTING DEVICES TO REMAIN ARE SHOWN LIGHT IN COLOR.
- CONTRACTOR SHALL REVIEW NEW FLOOR PLANS FOR CIRCUITS TO REMAIN AND BE REUSED FOR NEW DEVICES PRIOR TO DEMOLITION.
- ALL CONDUCTORS AND THAT ARE NOT BEING USED, SHALL BE DISCONNECTED BACK TO THE POWER SOURCE. REMOVE ALL CONDUIT AND CONDUCTORS TO THE EXISTING PANEL.
- ALL DEVICES SHOWN TO BE REMOVED OR REMOVED DUE TO INACTIVITY OR DEEMED NOT REQUIRED, SHALL BE DEMOLISHED (CONDUIT, CABLING, ETC.) BACK TO SOURCE AS PER NEC.

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DRAWING HISTORY

NO.	DATE	DESCRIPTION
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PROJECT NAME

IAH-TERMINAL -
 SECURITY EXIT
 LANE

PROJECT LOCATION

GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER

1004345

SHEET TITLE

DEMOLITION PLAN -
 TERMINAL C -
 ELECTRICAL
 POWER

SHEET NUMBER

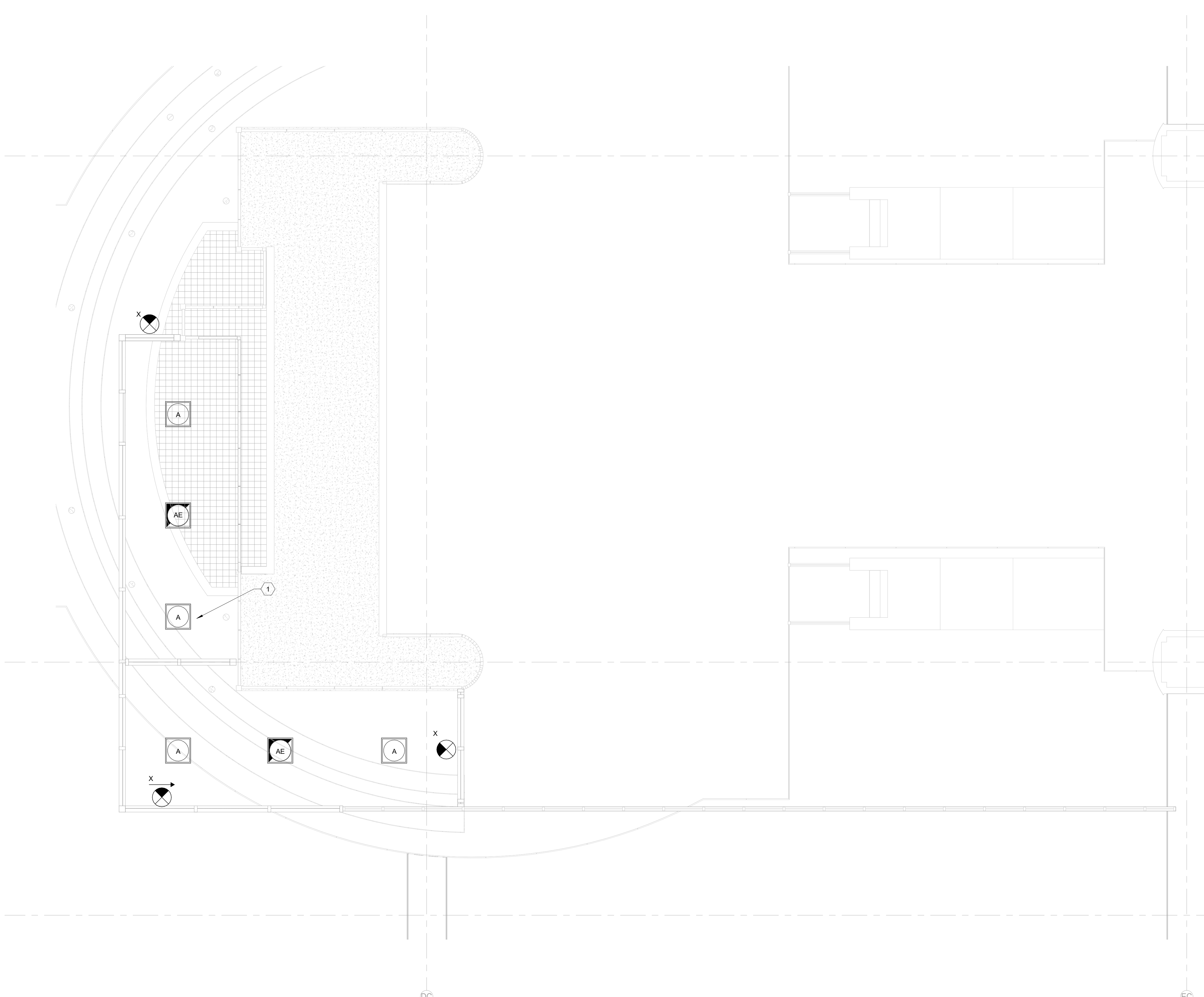
E203

LEVEL 02 - TICKETING - DEMOLITION PLAN - TERMINAL C - POWER 1/4" = 1'-0" 1

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 CONSULTING ENGINEERS

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 Texas Firm: F-14583 ProjectNo.: 02.18027

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KEYNOTES

NUMBER	NOTES
1	CONNECT NEW LIGHT AND EXIT LIGHT FIXTURES TO CLOSEST EXISTING LIGHTING CIRCUIT NEAR EXIT LANE STRUCTURE. INTERCEPT NEAREST JUNCTION BOX AND EXTEND CIRCUIT(CONDUCTORS) TO SERVE PROPOSED EXIT LIGHTS. TYPICAL FOR ALL WHERE SHOWN.

LIGHTING NOTES

- A. CONTRACTOR SHALL REFER TO FIXTURES SCHEDULE AND SPECIFICATIONS FOR EXACT LIGHTING REQUIREMENTS.
- B. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SWITCH CONDUCTORS WHERE MULTIPLE SWITCHES ARE SHOWN. PROVIDE NEUTRALS FOR ALL SWITCHES SHOWN.
- C. COORDINATE THE INSTALLATION OF ALL LIGHT FIXTURES WITH HVAC AND EQUIPMENT CURRENTLY SHOWN TO BE INSTALLED IN AND ABOVE CEILING.
- D. CONTRACTOR SHALL PROPERLY INSTALLED FIXURES PER MANUFACTURERS RECOMMENDATION AND CONSTRUCTION DRAWINGS.
- E. PROVIDE ALL MOUNTING ACCESSORIES AND EQUIPMENT REQUIRE FOR PROPER INSTALLATION.
- F. LED LAMP COLOR SHALL MATCH COLOR TEMPERATURE OF EXISTING LIGHTING CURRENTLY INSTALLED. FIELD VERIFY EXISITNG LIGHT TEMPERATURE/COLOR PRIOR TO ORDERING.

LUMINAIRE SCHEDULE

IMAGE	TYPE	DESCRIPTION	MANUFACTURER	LAMP TYPE
	A	LED 2x2 FLAT PANEL TROFFER. MINIMUM 4200 LUMENS DELIVERED.	METALUX PHILIPS	LED
	AE	LED 2x2 FLAT PANEL TROFFER. MINIMUM 4200 LUMENS DELIVERED. PROVIDE WITH 90 MINUTE BATTERY PACK.	METALUX PHILIPS	LED

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PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

SHEET TITLE
 FLOOR PLAN - TERMINAL C - LIGHTING

SHEET NUMBER

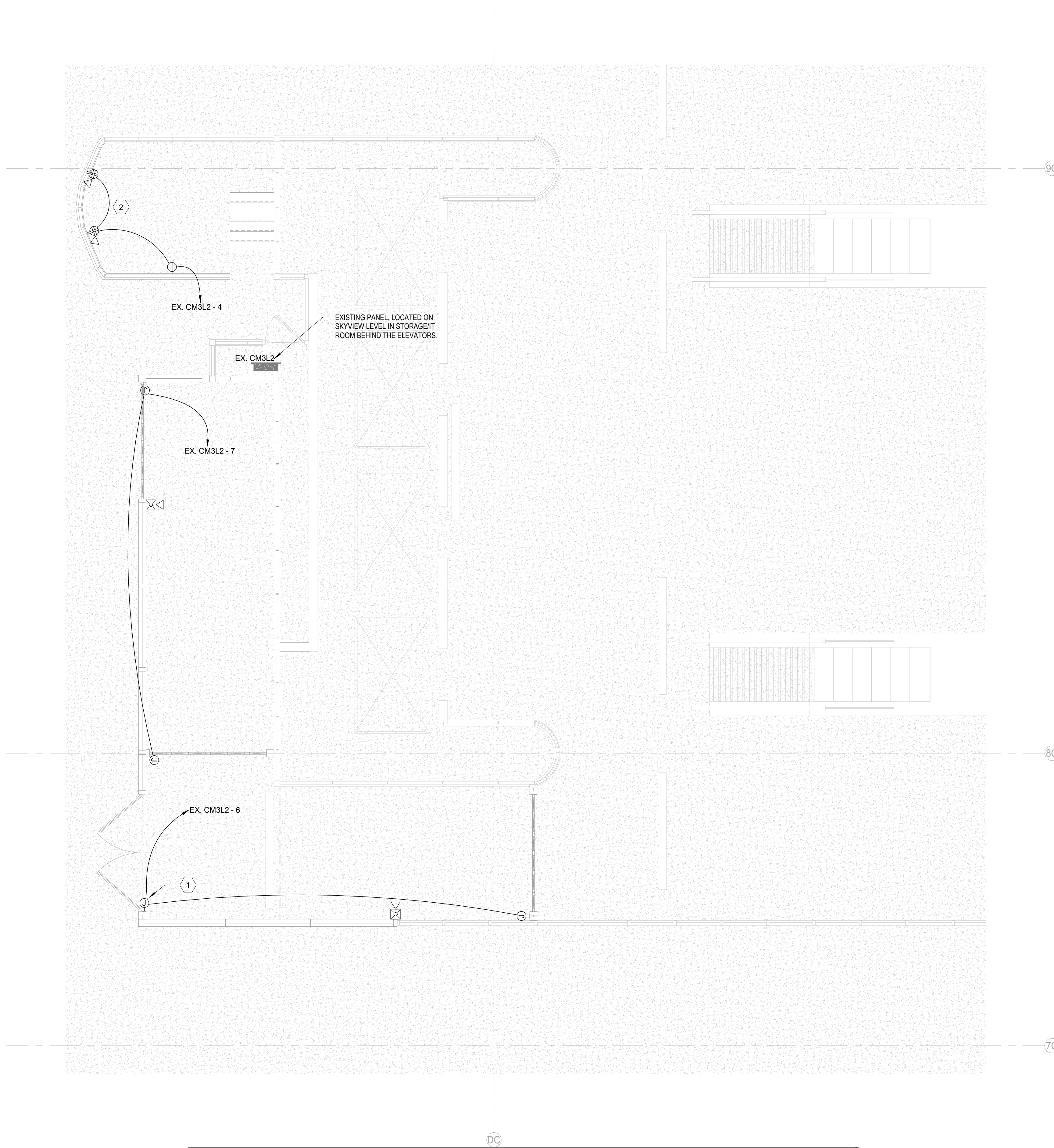
E303

LEVEL 02 - TICKETING - FLOOR PLAN - TERMINAL C - LIGHTING 1/4" = 1'-0" 1

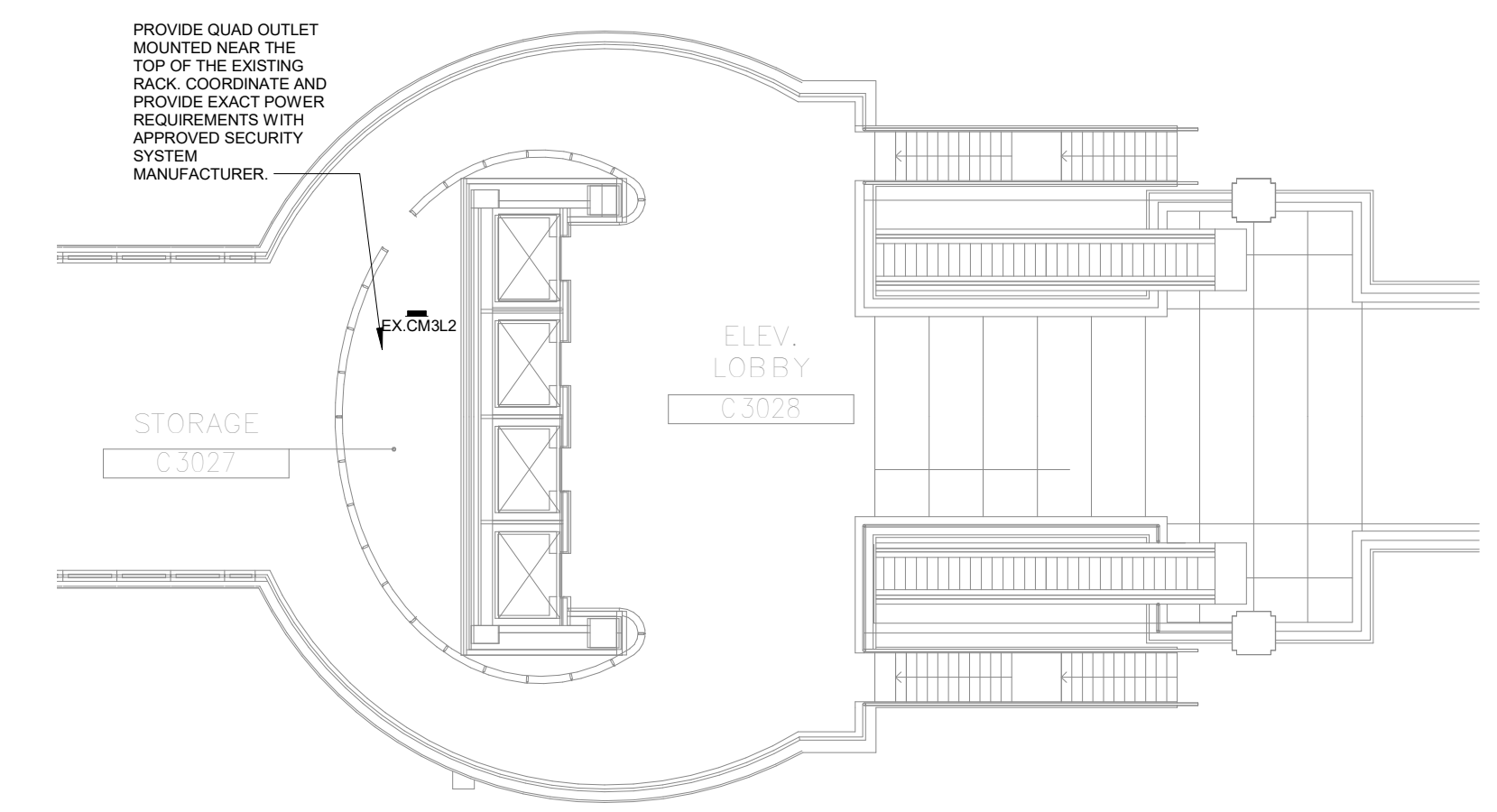


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LEVEL 02 - TICKETING - FLOOR PLAN - TERMINAL C - POWER 1/4" = 1'-0" 1



LEVEL 03 - SKYWAY - FLOOR PLAN - TERMINAL C - POWER 1/16" = 1'-0" 2

KEYNOTES ?

NUMBER	NOTES
1	PROVIDE 120V POWER FOR DOOR MOTOR AND CONTROLS. VERIFY WITH MANUFACTURERS DOCUMENTATION FOR PROPER INSTALLATION AND ROUTING OF CONCEALED CONDUIT. ADDITIONAL CIRCUIT MAY BE REQUIRED PER DOOR MANUFACTURER. FINAL VERIFICATION WILL OCCUR DURING SUBMITTAL PROCESS. ROUTE #10'S IN 1" CONDUIT FROM PANEL TO CLOSEST JUNCTION BOX LOCATION AT THE EXIT LANE HOUSING.
2	EXTEND EXISTING CIRCUITS, AND CONDUCTOR THAT SERVE THE PREVIOUS HPD WORKSTATIONS TO NEW PROPOSED LOCATION.

POWER NOTES

- A. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND TELECOMM DRAWINGS PRIOR TO ROUGH-IN OF ANY OUTLET DEVICES.
- B. PROVIDE ADHESIVE LABELS FOR ALL RECEPTACLE OUTLETS SHOWN ON PLANS.
- C. REFER TO TELECOMM (T-SERIES) DRAWINGS FOR EXACT LOCATIONS OF ALL BACKBONE/COMMUNICATION CONDUITS AND GROUND BARS.
- D. UPS AND BATTERY CABINET SHALL BE OWNER FURNISHED AND INSTALLED BY CONTRACTOR. COORDINATE WITH PROJECT MANAGER FOR EXACT REQUIREMENTS AND INSTALLATION DETAILS.
- E. COORDINATE EXACT RECEPTACLE TYPE WITH OWNER PRIOR TO COMMENCEMENT OF WORK. IF L6-20P ARE REQUESTED FROM OWNER, CONTRACTOR SHALL PROVIDE PLUG ADAPTER TO CONVERT TWIST-LOCK DEVICE TO A STRAIGHT PLUG. BASIS OF DESIGN REFLECTS THE PROVISION OF L5-30P DUPLEX RECEPTACLES.
- F. PROVIDE JUNCTION BOX AND OR HOUSINGS FOR ALL SURFACE MOUNTED RECEPTACLES.
- G. ALL WALL PENETRATIONS SHALL BE SEALED WITH UL LISTED FIRE RATED CAULKING MATERIAL.
- H. CONTRACTOR SHALL OBTAIN AND REVIEW TELECOMM (T-DRAWINGS) AND PROVIDE ALL POWER REQUIREMENTS PER NOTED LOCATION ON PLANS. PROVIDE ALL REQUIRED OUTLETS, BREAKERS, RACEWAYS, CONDUCTORS, ETC. FROM NEAREST UPS SUPPORTED ELECTRICAL PANELS.
- I. ROUTE ALL FIRE ALARM DEVICES SHOWN TO THE EXISTING FIRE ALARM CONTROL PANEL.
- J. ANY FIRE ALARM DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE SHOWN FOR BIDDING PURPOSES ONLY AND NOT FOR CONSTRUCTION OR INSTALLATION. THE FIRE ALARM CONTRACTOR SHALL MODIFY THE FIRE ALARM SYSTEM TO PROVIDE FULL COVERAGE OF THE PROJECT AREA IN ACCORDANCE WITH NFPA-72 AND ALL CITY, STATE, NATIONAL CODES AND STANDARDS, AND THE AUTHORITY HAVING LOCAL JURISDICTION. THE FIRE ALARM CONTRACTOR SHALL EXTEND THE EXISTING FIRE ALARM SYSTEM TO THE NEW SPACE. NEW DEVICES SHALL MATCH EXISTING FIRE ALARM SYSTEM DESIGN. TEXAS STATE FIRE MARSHALL FIRE ALARM PLANNING SUPERINTENDENT AND/OR NICET III CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR THE INSTALLATION OF THE FIRE ALARM SYSTEM TO THE AHJ FOR APPROVAL, INSTALLATION AND PROVIDE AN APPROVED COPY TO THE OWNER FOR RECORDS.

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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

SHEET TITLE
FLOOR PLAN - TERMINAL C - POWER

SHEET NUMBER
E403

VOLT AIR
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 Texas Firm: F-14583 ProjectNo.: 02.18027

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- ### GENERAL NOTES
- CONTRACTOR IS REQUIRED TO COORDINATE ALL INSTALLATIONS IN EACH SPACE WITH OTHER TRADES. PROVIDE SHOP DRAWINGS AND LAYOUTS FOR EACH ELECTRICAL ROOM WITH PROPOSED CONDUIT ROUTES TO ALLEVIATE POTENTIAL CONFLICTS WITH MECHANICAL, PLUMBING AND TELECOMMUNICATIONS.
 - CONTRACTOR SHALL CONDUCT AMPERAGE READINGS FOR THE EXISTING SWITCHGEAR TO VERIFY AMPERAGES FOR EACH PHASE. READINGS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF ANY ELECTRICAL INSTALLATIONS.
 - PROVIDE PROPER LABELING FOR ALL ELECTRICAL DEVICES. REFER TO SPECIFICATIONS AND DETAILS FOR LABEL TYPES AND REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING EQUIPMENT AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION OF ALL DEVICES TO BE INSTALLED.
 - CONTRACTOR SHALL PLACE A LAMINATED COPY OF THE LOAD CALCULATIONS ON THE BOTTOM INTERIOR BEZEL IN EACH PANEL. LOAD CALCULATIONS ARE LOCATED ON THE PANELBOARD SHEETS AT THE BOTTOM OF EACH PANEL.
 - ALL CONDUITS SHALL BE LABELED WITH THE VOLTAGE AND CIRCUITS THAT ARE HOUSED WITHIN. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.

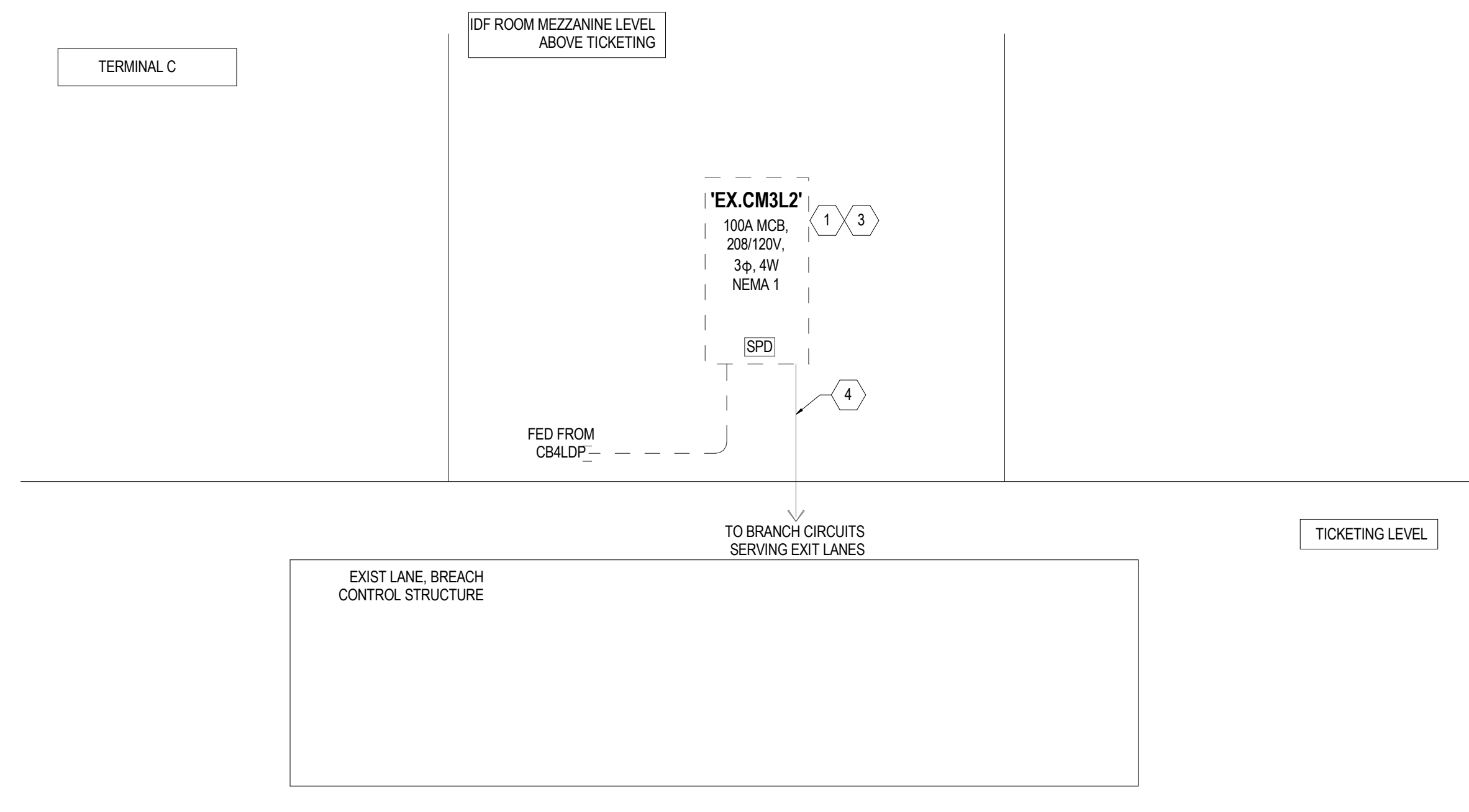
- ### KEYED NOTES
- REMOVE AND REPLACE EXISTING PANEL WITH NEW PANEL IN LOCATION SHOWN ON POWER PLANS.
 - FIELD VERIFY AND COORDINATE EXACT ROUTING OF CONDUIT PRIOR TO COMMENCEMENT OF WORK. CONDUIT SHALL BE LABELED AND MOUNTED PER H.A.S SPECIFICATIONS.
 - CONTRACTOR SHALL RELOCATE ALL EXISTING POWER SERVING EXISTING DEVICE PREVIOUSLY IN EX. UPS 1 IN TO NEW 24 SPACE PANEL. PREPARE ALL NEW CONDUITS, CONDUCTORS, JUNCTION BOX, ETC. TO REDUCE DOWN TIME DURING CHANGEOVER.
 - PROVIDE THREE(3) NEW 20A/1P BREAKERS IN EXISTING PANEL TO SERVE DEVICES AT EXIT LANE STRUCTURE. NEW BREAKERS SHALL HAVE THE SAME A.I.C. RATING AS THE BREAKERS THAT ARE CURRENTLY INSTALLED.
 - CONTRACTOR SHALL UTILIZE ANY OF THE EXISTING SPARES IN EX. PANEL 2LCW, TO SERVE DOOR MOTORS IN EXIT LANE STRUCTURE.
 - CONTRACTOR SHALL CONTACT CURRENT UPS MANUFACTURER REP TO SCHEDULE MAINTENANCE ON EXISTING UPS TO VERIFY IF ONLY THE BATTERIES NEED TO BE REPLACE OR IF THE UPS DEVICE IS DEFECTIVE. BASIS OF WORK SHALL BE TO ORDER NEW BATTERIES FOR THE UPS DEVICE. CONTRACTOR SHALL BE PROVIDED WITH \$40,000 ALLOWANCE FOR NEW UPS DEVICE AND BATTERIES IF DEVICE IS FOUND DEFECTIVE.
- ### LEGEND
- NEW EQUIPMENT
 - EXISTING EQUIPMENT TO REMAIN
 - SPD SURGE PROTECTION DEVICE

LOAD ANALYSIS

EXISTING MAX DEMAND LOAD = 8.5 KVA
 NEW LOAD = 2.720 KVA

TOTAL LOAD ON PANEL = 11,220KVA (31A)

NEW PROPOSED LOAD DOES NOT EXCEED 100A CAPACITY



ELECTRICAL POWER RISER DIAGRAM
 NOT TO SCALE

Branch Panel: EX. CM3L2

Location: ELECTRICAL CHASEWAY
 Supply From: Mains Type: MCB
 Mounting: Surface Phases: 3
 Enclosure: Type 1 Wires: 4

Volts: 120/208 Wye
 A.I.C. Rating: Mains Type: MCB
 Mains Rating: 100 A
 MCB Rating: 100 A

Notes:
 PROVIDE NEW BREAKERS WITH THE SAME A.I.C. RATINGS FOR ALL NEW BREKERS SHOWN TO BE INSTALLED.

Note	Ckt	Circuit Description	Wire Size	Trip (A)	Pole	A	B	C	Pole	Trip (A)	Wire Size	Circuit Description	Ckt	Note
	1	Ex. Load	20	1	360	520			1	20		Ex. Load	2	
	3	Ex. Load	20	1			600	900	1	20		Receptacle	4	1
	5	Ex. Load	20	1				420	360	1	20	Receptacle	6	1
	2	7 Receptacle	20	1	360	0			1	20		Spare (Quad Outlet)	8	
	2	9 Receptacle	20	1			1100	0	1	20		Spare	10	
													11	
													12	
													13	
													14	
													15	
													16	
													17	
													18	
	19	Existing Load	30	3	2200								20	
	21	--	--	--			2200						22	
	23	--	--	--				2200					24	
	25	--	--	--									26	
	27	--	--	--									28	
	29	--	--	--									30	
	31	--	--	--									32	
	33	--	--	--									34	
	35	--	--	--									36	
	37	--	--	--									38	
	39	--	--	--									40	
	41	--	--	--									42	
						Total Load	3440 VA	4800 VA	2980 VA					
						Total Amps	29 A	41 A	25 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	2720 VA	100.00%	2720 VA	Total Conn. Load: 11220 VA Total Est. Demand: 8245 VA Total Conn.: 31 A Total Est. Demand: 23 A
Spare	8500 VA	65.00%	5525 VA	

Notes:
 1. UTILIZE EXISTING 20A/1P BREAKERS FOR PROPOSED LOADS.
 2. PROVIDE AND INSTALL NEW 20A/1P BREAKERS FOR PROPOSED LOADS.



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DRAWING HISTORY

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PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

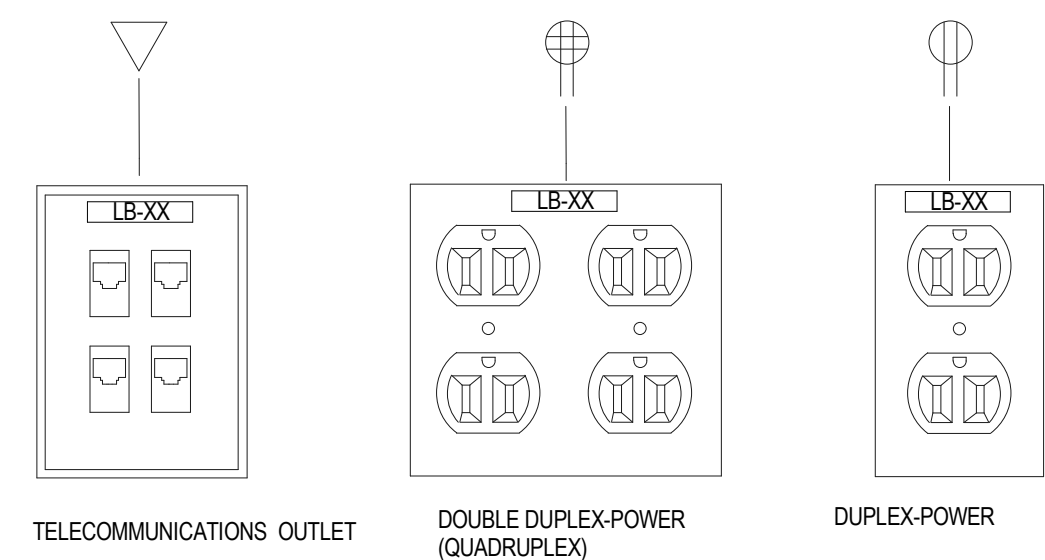
SHEET TITLE
 ELECTRICAL RISER DIAGRAMS

SHEET NUMBER

E601



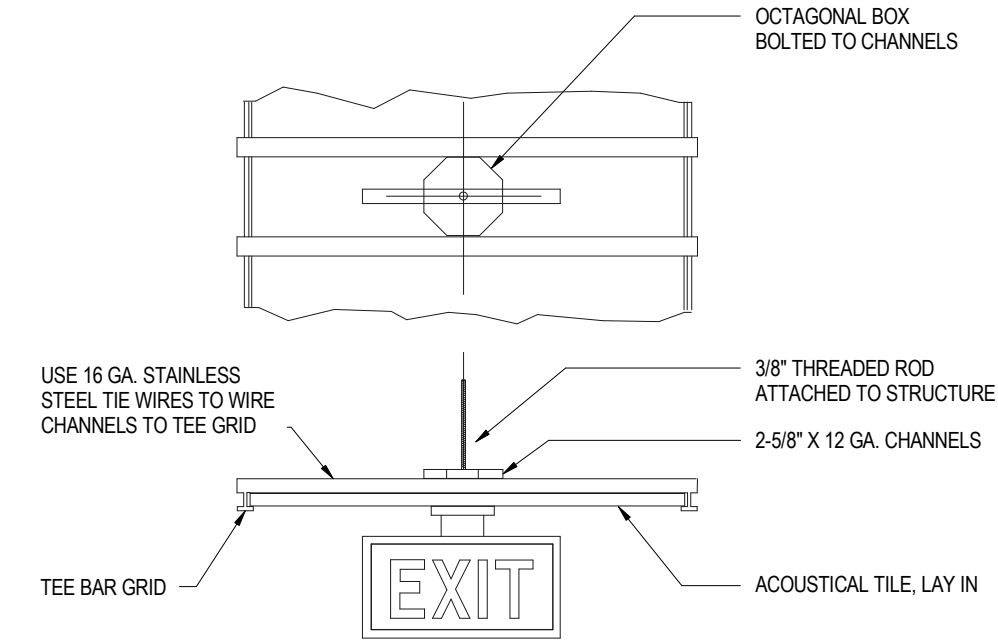
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 Houston, TX, 77056 Phone: 832.371.6181
 Texas Firm: F-14583 ProjectNo.: 02.18027



DETAIL NOTES:

- CONTRACTOR SHALL PROVIDE ALL WALL PLATES (STAINLESS STEEL), DEVICE, CONDUCTORS, ETC. REQUIRED FOR PROPER INSTALLATION OF A FULLY FUNCTIONING SYSTEM.
- ALL OUTLET DEVICE WALL PLATES (LIGHTING, POWER, AND DATA) SHALL BE PROVIDED WITH LABELS INDICATING ELECTRICAL CIRCUIT (EX. LB-21/POWER & LIGHTING) AND DATA OUTLETS SHALL REFLECT SWITCH PANEL LOCATION (EX. LSL-77/DATA).
- PROVIDE WHITE LABELS WITH RED LETTERING FOR ALL RECEPTACLE DEVICES THAT ARE SERVED BY EMERGENCY POWER.
- INSTALL OUTLETS WITH GROUND NODE ON THE BOTTOM OF THE OUTLET.

DEVICE OUTLET DEVICE DETAIL F

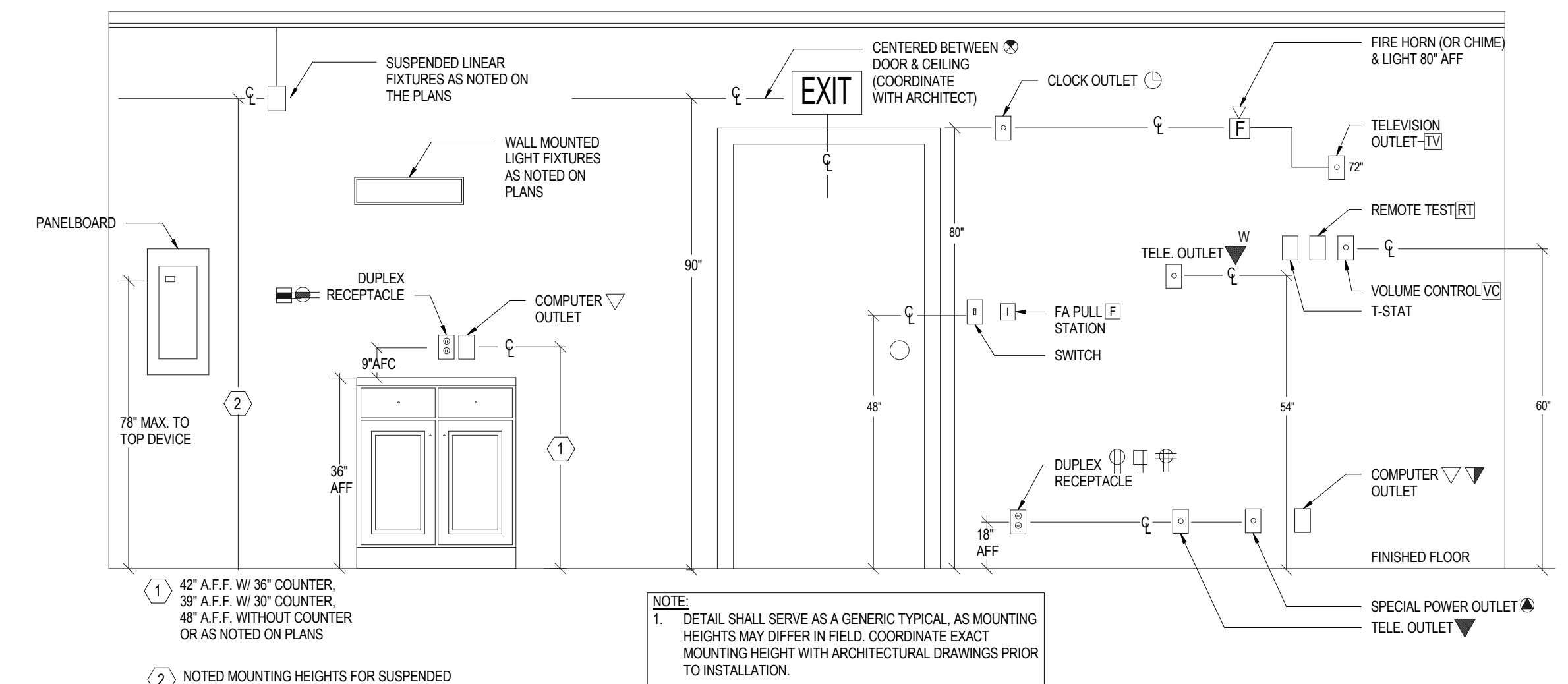
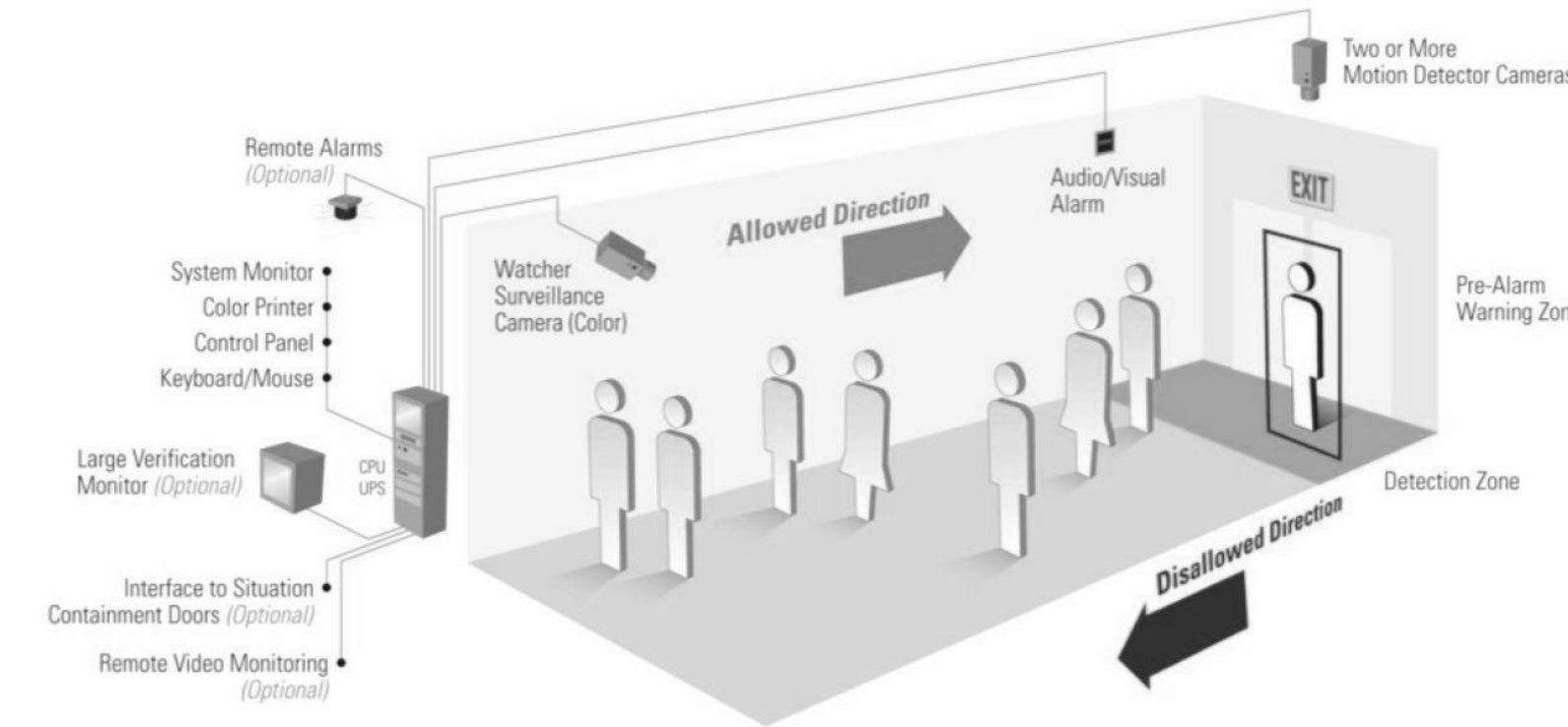


EXIT LIGHT MOUNTING DETAIL (CEILING ONLY) C

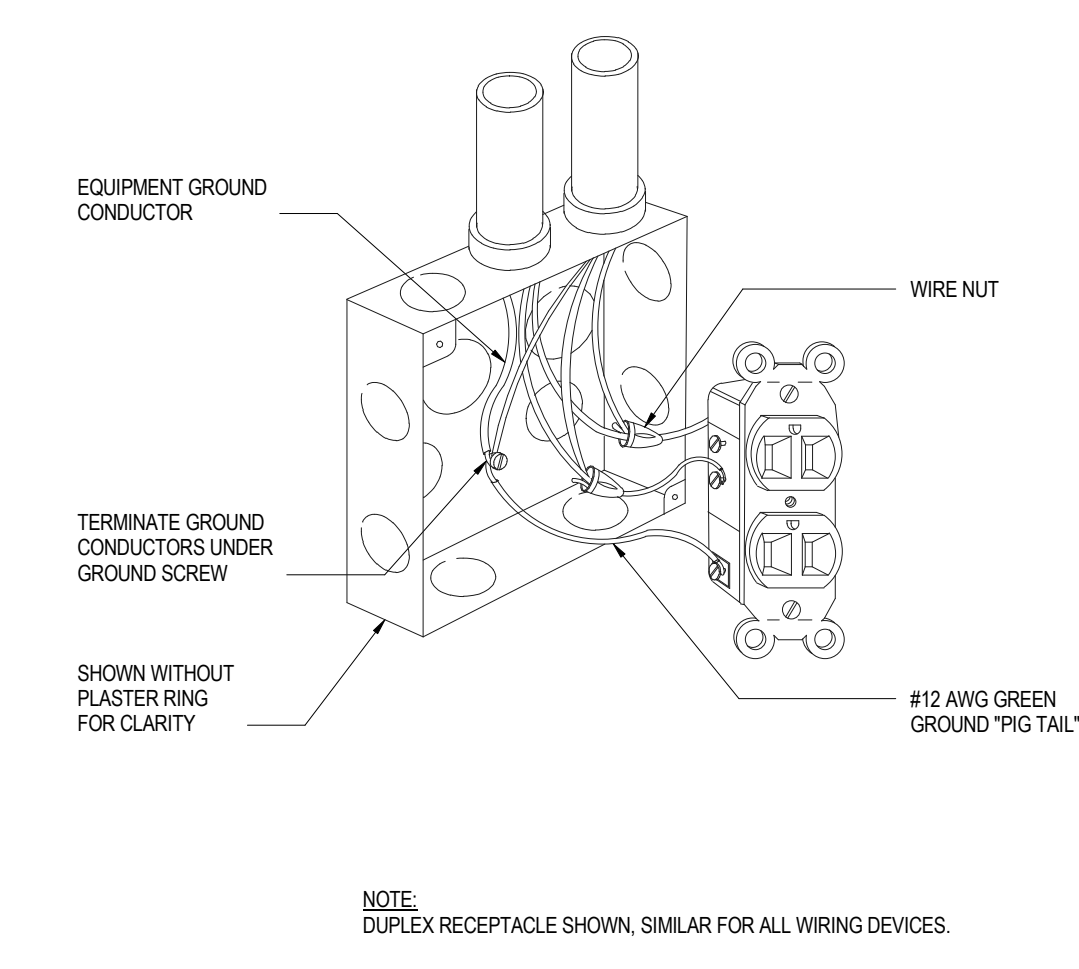
DETAIL NOTES:

- CONTRACTOR SHALL REFER TO LOW-VOLTAGE DRAWINGS AND PROVIDE CONDUIT, RACEWAY, BACKBOXES, ETC. FOR ALL ELECTRICAL AND LOW-VOLTAGE DEVICES.
- CONTRACTOR SHALL COORDINATE AND CONSULT WITH SYSTEMS MANUFACTURER FOR EXACT INSTALLATION REQUIREMENTS AS IT PERTAINS TO RACEWAY AND DEVICE INSTALLATION WITH THE EXIT LANE STRUCTURE HOUSING.

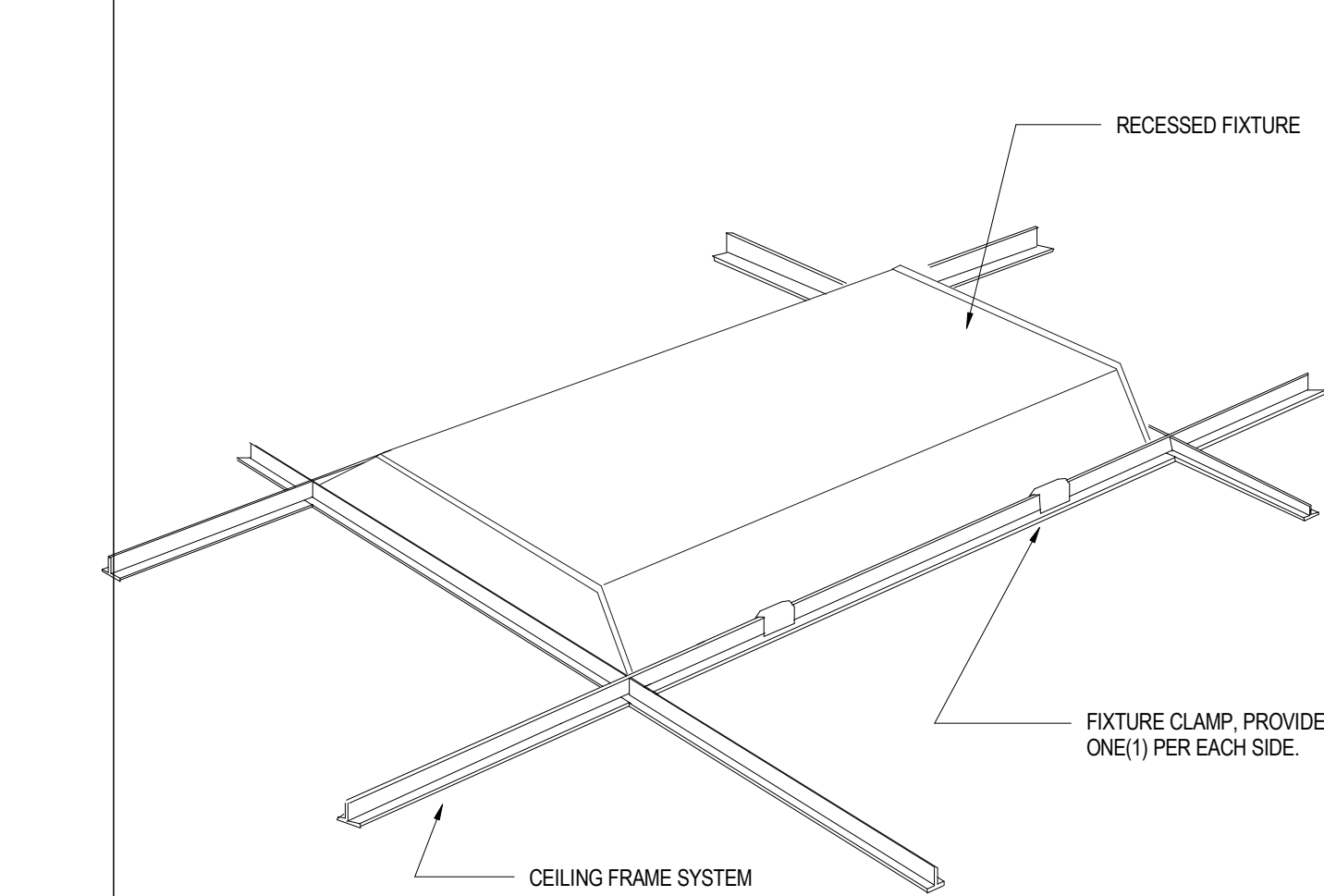
EQUIPMENT INSTALLATION DETAIL A



TYPICAL MOUNTING HEIGHT DETAIL D



WIRING DEVICE GROUNDING DETAIL G



FIXTURE SUPPORT DETAIL E

CODE COMPLIANCE NOTE: FAC-61G15

APPLICABLE CODES AND STANDARDS:

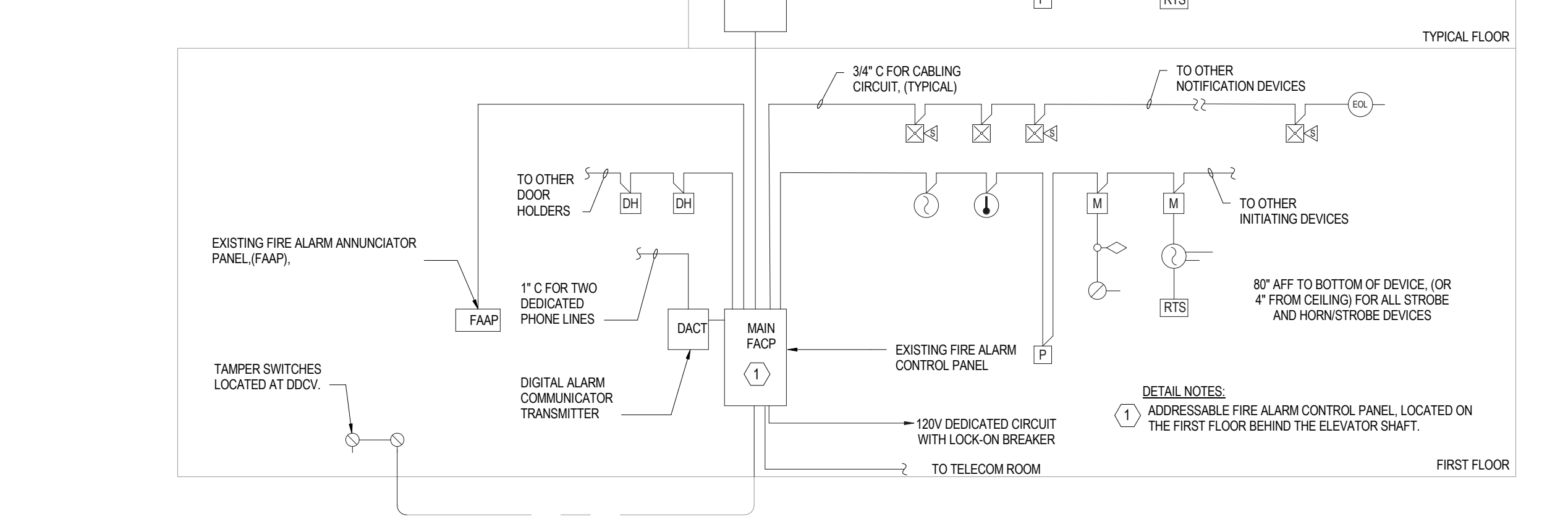
- NFPA-70, 2014 EDITION
- NFPA-72, 2015 EDITION

SCOPE OF WORK:

- ALL FIRE ALARM DEVICES SHOWN SHALL BE NEW AND ROUTED TO THE EXISTING FIRE ALARM TERMINAL CABINET AND CONTROL PANEL.
- THE EXISTING FIRE ALARM SYSTEM AN ADDRESSABLE SYSTEM WITH MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE ALARM SERVICE ONLY. REFER TO SPECIFICATIONS FOR ADDITIONAL CONTROL SYSTEM FUNCTIONS.
- ALL CABLING SHALL BE COMPATIBLE WITH FIRE INSTALLED FIRE ALARM MANUFACTURER.
- THE FIRE ALARM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 72.
- PROVIDE ADDITIONAL TERMINAL CABINETS AND BATTERIES WHERE REQUIRED FOR INSTALLATION OF ADDITIONAL FIRE ALARM DEVICE.
- ALL FIRE ALARM INSTALLATIONS SHALL MEET OR EXCEED THE CURRENT BUILDING STANDARDS.

DETAILS GENERAL NOTES:

ANY FIRE ALARM DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE SHOWN FOR BIDDING PURPOSES ONLY AND NOT FOR CONSTRUCTION OR INSTALLATION. THE FIRE ALARM CONTRACTOR SHALL MODIFY THE FIRE ALARM SYSTEM TO PROVIDE FULL COVERAGE OF THE PROJECT AREA IN ACCORDANCE WITH NFPA-72 AND ALL CITY, STATE, NATIONAL CODES AND STANDARDS, AND THE AUTHORITY HAVING LOCAL JURISDICTION. THE FIRE ALARM CONTRACTOR SHALL EXTEND THE EXISTING FIRE ALARM SYSTEM TO THE NEW SPACE. NEW DEVICES SHALL MATCH EXISTING FIRE ALARM SYSTEM DESIGN. TEXAS STATE FIRE MARSHALL FIRE ALARM PLANNING SUPERINTENDENT AND/OR NICET III CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR THE INSTALLATION OF THE FIRE ALARM SYSTEM TO THE AHJ FOR APPROVAL. INSTALLATION AND PROVIDE AN APPROVED COPY TO THE OWNER FOR RECORDS. TYPICAL.



FIRE ALARM RISER DIAGRAM B

GENERAL NOTES

- WIRING, RACEWAYS AND FIRE ALARM DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES, OREGON FIRE PREVENTION CODE, PORTLAND FIRE CODE AND NFPA 72.
- ALL FIRE ALARM NOTIFICATION DEVICES LOCATED IN THE INTERIOR SPACES OF THE BUILDING SHALL BE PROVIDED WITH WHITE HOUSING AND RED LETTERING.
- PROVIDE MINIMUM 3/4\"/>



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DRAWING HISTORY

NO.	DATE	DESCRIPTION
1	09-09-21	FOR INFORMATION AND REFERENCE ONLY

PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
GEORGE BUSH IAH 3500 NORTH TERMINAL RD. HOUSTON, TX 77032

PROJECT NUMBER
1004345

SHEET TITLE
ELECTRICAL DETAILS

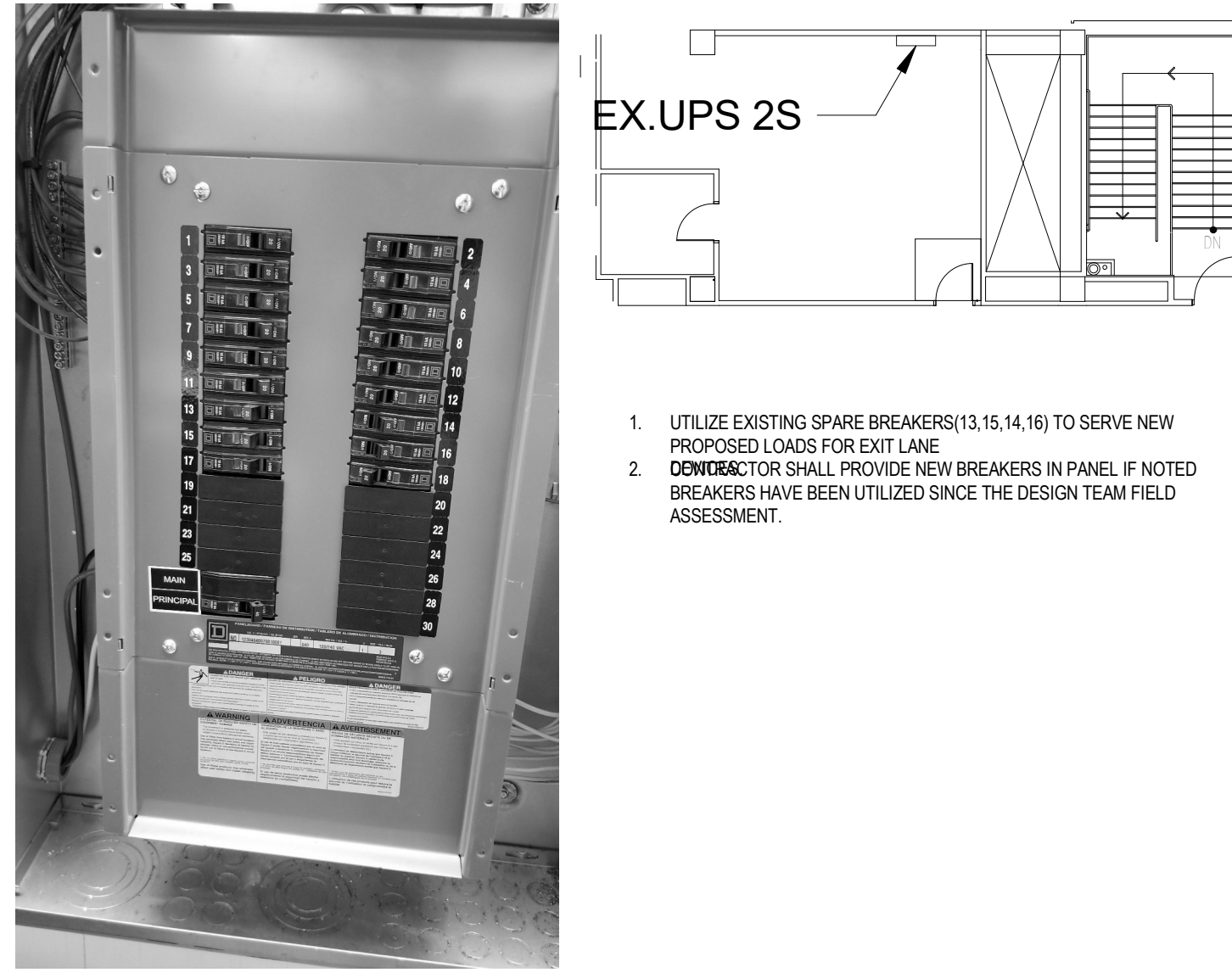


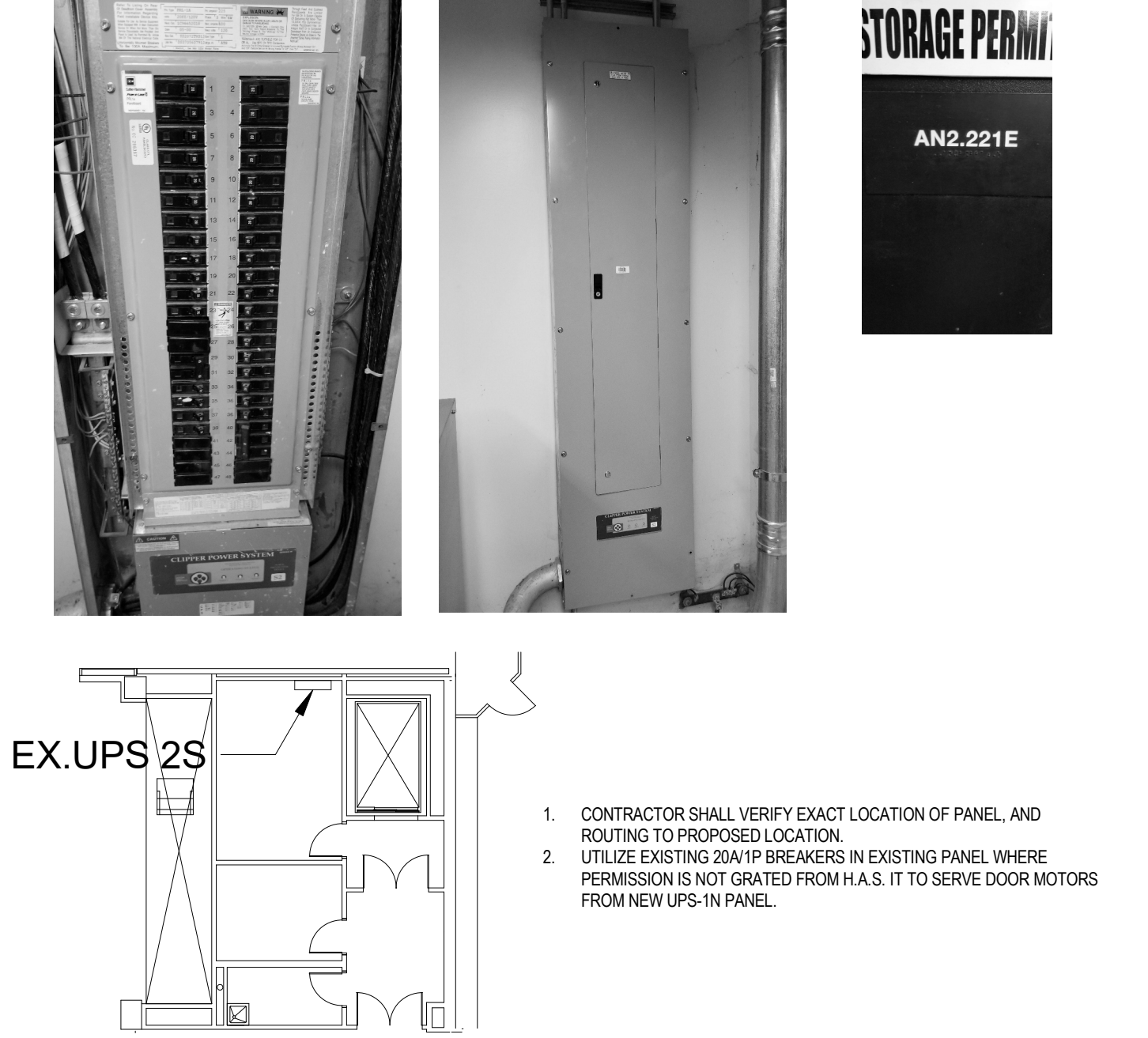
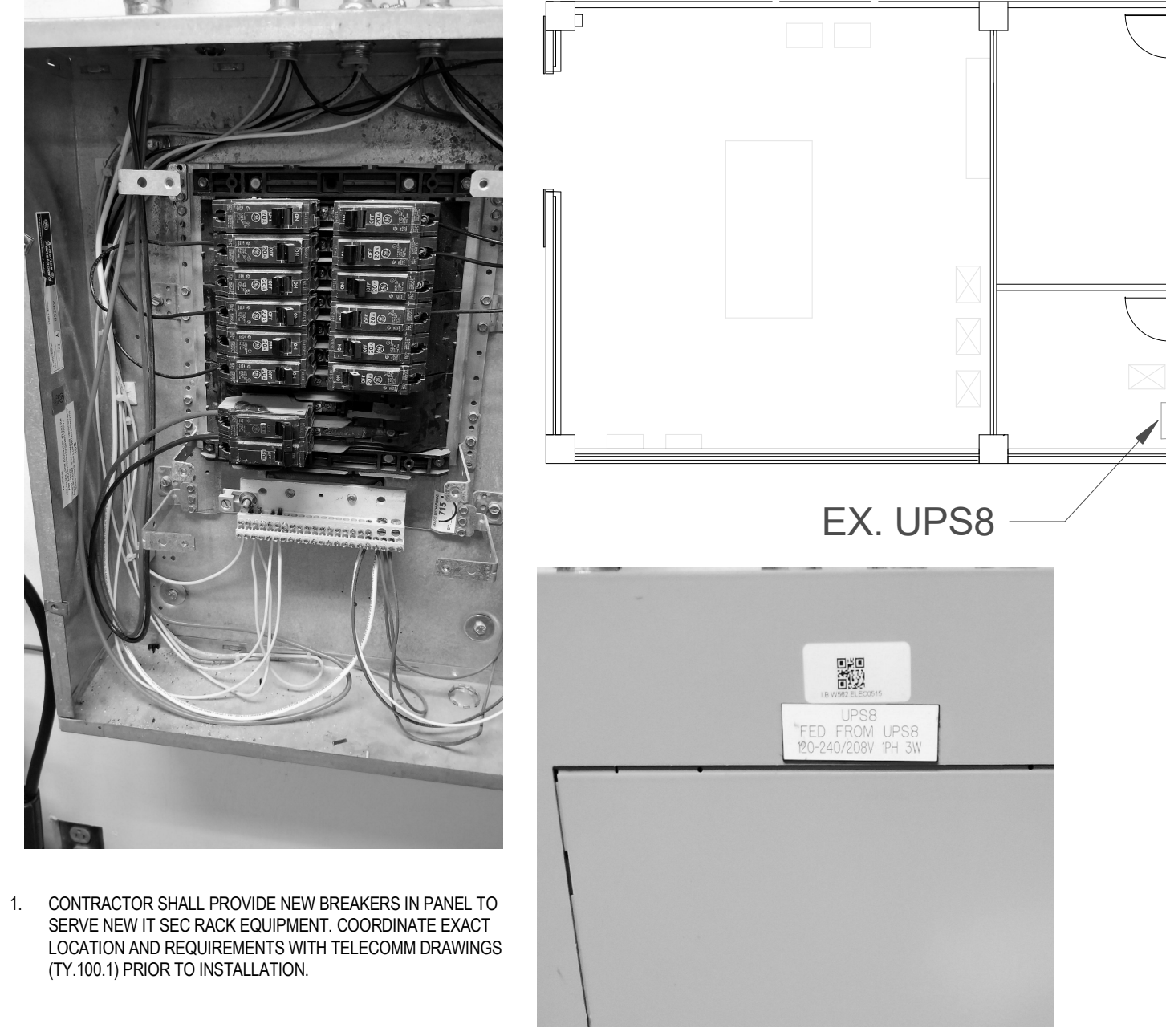

SHEET NUMBER

E901

VOLT AIR
CONSULTING ENGINEERS
5353 West Alabama Suite 205
Houston, TX, 77056 Phone: 832.371.6181
Texas Firm: F-14583 ProjectNo.: 02.18027

FILE NAME: C:\Users\jalexander\Documents\02_18018_HAS_Exit_Lanes_LOA_IAH_CENTRAL_R19_jalexander@voltageinc.com.rvt
DATE/TIME: 8/9/2021 5:40:18 PM

FILE NAME: C:\Users\jalexander\Documents\02_18018_HAS_Exit_Lanes_LOA_IAH_CENTRAL_R19_jalexander@voltageinc.com.rvt
 DATESTAMP: 8/9/2021 5:40:19 PM

 <p>EX. UPS 2S</p> <ol style="list-style-type: none"> UTILIZE EXISTING SPARE BREAKERS(13, 15, 14, 16) TO SERVE NEW PROPOSED LOADS FOR EXIT LANE CONTRACTOR SHALL PROVIDE NEW BREAKERS IN PANEL IF NOTED BREAKERS HAVE BEEN UTILIZED SINCE THE DESIGN TEAM FIELD ASSESSMENT. 		
<p>EXISTING PANEL UPS 2S - RM IDF A.2S</p> <p>E</p>	<p>EXISTING PANEL IN SKYVIEW IT ROOM</p> <p>C</p>	<p>FIRE ALARM CONTROL PANEL IDF ROOM TERMINAL A NORTH</p> <p>A</p>
 <p>EX. UPS 2S</p> <ol style="list-style-type: none"> CONTRACTOR SHALL VERIFY EXACT LOCATION OF PANEL, AND ROUTING TO PROPOSED LOCATION. UTILIZE EXISTING 20A/1P BREAKERS IN EXISTING PANEL WHERE PERMISSION IS NOT GRATED FROM H.A.S. IT TO SERVE DOOR MOTORS FROM NEW UPS- IN PANEL. 	 <p>EX. UPS 8</p> <ol style="list-style-type: none"> CONTRACTOR SHALL PROVIDE NEW BREAKERS IN PANEL TO SERVE NEW IT SEC RACK EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TELECOMM DRAWINGS (TY. 100-1) PRIOR TO INSTALLATION. 	 <p>DETAIL NOTES:</p> <ol style="list-style-type: none"> EXISTING DOWNLIGHTS AND LOW VOLTAGE DEVICES WILL BE RELOCATED PER OWNERS HAS DISCRETION. COORDINATE WITH HAS PM FOR EXACT LOCATION OF REMOVED DEVICES. REMOVE AND PATCH LOCATION OF EXISTING DOWNLIGHTS. REUSE EXISTING FIRE ALARM CONNECTIONS FOR NEW DEVICES TO BE INSTALLED.
<p>EXISTING PANEL UPS 2S - RM IDF A.2S</p> <p>F</p>	<p>EXISTING PANEL UPS 8 - RM. IDF A.8N</p> <p>D</p>	<p>EXISTING SOFFIT - TERMINAL C</p> <p>B</p>



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PROJECT NAME
IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

SHEET TITLE
 ELECTRICAL DETAILS

SHEET NUMBER

E902

VOLT AIR
 CONSULTING ENGINEERS
 5353 West Alabama Suite 205
 Houston, TX, 77056 Phone: 832.371.6181
 Texas Firm: F-14583 ProjectNo.: 02.18027

CCVS SYSTEM NOTES

1. ALL OUTDOOR CAMERAS, TERMINATION BOXES, AND PULLBOXES SHALL BE INSTALLED WITH WEATHER RESISTANT HARDWARE.
2. PROVIDE ALL INTEGRATION WITH ALARM ACCESS CONTROL SYSTEM COMPONENTS.
3. PROVIDE ALL COORDINATION WITH OTHER DISCIPLINES FOR INSTALLATION OF EQUIPMENT.
4. COORDINATE ALL SITE WORK WITH OWNER'S REP.
5. DRAWINGS INDICATE CAMERA 'HOME POSITIONS'. VERIFY FIELD OF VIEW WITH HOUSTON AIRPORT SYSTEM (HAS) REPRESENTATIVE AND DESIGN CONSULTANT DURING INSTALLATION. SUBSTITUTION OF LENS TYPE & SIZE TO ACCOMPLISH INTENDED FIELD OF VIEW SHALL BE AT NO ADDITIONAL COST.
6. CAMERAS MAY INCLUDE MULTIPLE TRANSMISSION METHODS. VERIFY EACH CAMERA PRIOR TO INSTALLATION.
7. FIELD VERIFY ALL CAMERA LOCATIONS PRIOR TO INSTALLATION. CAMERA MAY BE RELOCATED WITHIN 25' OF LOCATION SHOWN ON FLOOR PLANS WITHOUT ADDITIONAL COST.

CAMERA SERVER AND DIGITAL STORAGE NOTES

1. PROVIDE DIGITAL STORAGE FOR THIS PROJECT IN THE HAS ADMIN BUILDING AS REQUIRED.
2. THE EXISTING CAMERA SERVERS AND DIGITAL STORAGE ARE LOCATED AT THE HAS ADMINISTRATION BUILDING AND TERMINAL C. THEY ARE REDUNDANT.
3. PROVIDE HONEYWELL MAXPRO CAMERA LICENSING AS REQUIRED AT THE HAS ADMINISTRATION BUILDING AND TERMINAL C TO SUPPORT ALL HAS CAMERAS INSTALLED AS PART OF THIS PROJECT.

ACS SYSTEM NOTES

1. ALL OUTDOOR MOUNTED CARD READERS SHALL BE INSTALLED WITH WEATHER RESISTANT AND TAMPER PROOF HARDWARE.
2. CARD READER PEDESTALS SHALL BE SIZED FOR VOICE COMMUNICATIONS.
3. PROVIDE ALL INTEGRATION WITH CLOSED CIRCUIT VIDEO SURVEILLANCE COMPONENTS.
4. PROVIDE ALL COORDINATION WITH OTHER DISCIPLINES FOR INSTALLATION OF EQUIPMENT.
5. COORDINATE ALL SITE WORK WITH OWNERS REP.
6. PROVIDE ACCESS CONTROL LICENSES AS REQUIRED PART OF THIS PROJECT.
7. CARD READER ICLASS ELITE KEY SHALL BE REQUIRED, AND ONLY AUTHORIZED PURCHASER ARE AUTHORIZED TO PURCHASE. THE ICLASS ELITE PROGRAM INCLUDES A CREDENTIAL FORMAT AND CUSTOM AUTHENTICATION KEY.

EQUIPMENT SYMBOLS LIST

SYMBOL	DESCRIPTION
	CARD READER
	CALL BOX (VOIP) W/ CAMERA
	360 IP CAMERA
	FIXED CAMERA
	PTZ HD IP CAMERA
	DURESS BUTTON (UNDER DESK/TABLE/COUNTER)
	DOOR POSITION SWITCH (FLUSH MOUNT)
	REX MOTION SENSOR
	REMOTE COMMAND TERMINAL (BY OTHER)
	CENTRAL CONTROL RACK (BY OTHER)
	AUTO DOOR OPERATOR (BY OTHER)
	PHONE
	DATA
	CATEGORY 6 DATA OUTLET WHERE X= QUANTITY OF CABLES

SHEET INDEX

SHEET NO.	SHEET NAME
TY000	INDEX, SYMBOLS & NOTES
TY001	NOTES
TY002	EQUIPMENT SCHEDULES
TY102.2	OVERALL SECURITY FLOOR PLAN - TERMINAL C, LEVEL 02
TY102.3	OVERALL SECURITY FLOOR PLAN - TERMINAL C, LEVEL MEZZANINE
TY202	SECURITY FLOOR PLAN - TERMINAL C CENTRAL, LEVEL 02
TY404	ENLARGED PLAN AT BDF C3320
TY500	DOOR AND IFP DETAILS
TY501	CAMERA DETAILS
TY502	TELECOM DETAILS

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PROJECT NAME

**IAH-TERMINAL -
SECURITY EXIT
LANE**

PROJECT LOCATION

GEORGE BUSH IAH
3500 NORTH
TERMINAL RD.
HOUSTON, TX 77032

PROJECT NUMBER

1004345

SHEET TITLE

**INDEX, SYMBOLS &
NOTES**

SHEET NUMBER

TY000

FILE NAME: W:\2018.010 - HAS EXIT LANE MODIFICATIONS\REV\2018.010 - HAS EXIT LANE MODIFICATIONS_CENTRAL_90CD 080421 (2021).rvt
DATESTAMP 9/9/2021 11:01:14 AM

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FILE NAME: W:\2018.010 - HAS EXIT LANE MODIFICATIONS\REV\2018.010 - HAS EXIT LANE MODIFICATIONS_CENTRAL 90CD 080421 (2021).rvt
 DATESTAMP 9/9/2021 11:01:14 AM

TELECOM GENERAL NOTES

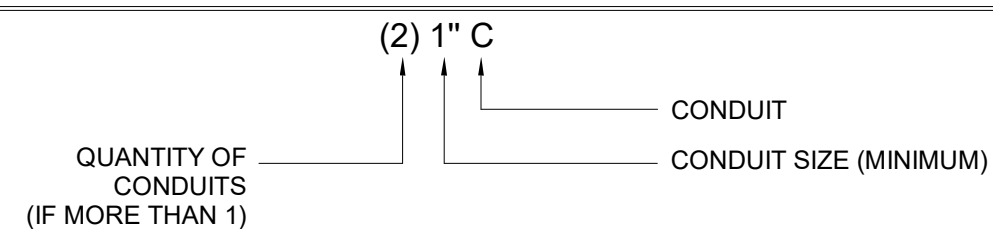
- FOLLOW TELECOM STANDARDS AND PRACTICES. SEE DIVISION 27 SPECIFICATIONS AND T DRAWINGS
- REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) SUPERVISOR SHALL REVIEW, APPROVE AND STAMP ALL SHOP DRAWINGS. COORDINATE DRAWINGS AND RECORD DRAWINGS.
- ALL WALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOPPING.
- REFER TO THE ELECTRICAL FLOOR PLAN DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS. WHERE THERE ARE DRAWING DISCREPANCIES, THE CONTRACTOR SHALL INSTALL THE GREATER QUANTITY OF DEVICES.
- REFER TO THE SITE PLAN ON AND RISER DIAGRAM FOR TELECOMMUNICATION BACKBONE CONDUITS/CABLES. FIELD COORDINATE EXACT ROUTING WITH OTHER TRADES.
- ALL COMMUNICATIONS EQUIPMENT SHOWN SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- BOND ALL COMMUNICATIONS CABINETS, RELAY RACKS, CABLE TRAYS, AND OTHER METALLIC SUPPORTING DEVICES TO TELECOMMUNICATIONS GROUND BUSBAR INSIDE COMMUNICATIONS ROOM. BOND WITH A #6 GROUND CONDUCTOR.
- ALL HORIZONTAL VOICE AND DATA CABLES SHALL BE DISTRIBUTED VIA MINIMUM 1" CONDUIT AND/OR CABLE TRAY. NO EXCEPTIONS.
- SINGLE LINE DIAGRAMS, SCHEMATICS, DETAILS AND CONDUIT PATHS SHOWN HEREIN ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM. ACCORDINGLY, FULL SHOP DRAWING DEVELOPMENT IS REQUIRED TO REALIZE THE SPECIFIED FUNCTIONS.
- DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY GC.
- REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
- PAINTING, PATCHING AND FINISHES FOR DEVICES LOCATED IN EXISTING AREAS SHALL MATCH EXISTING FINISHES AS APPROVED BY GC.
- FINISHES OF DEVICES IN NEW/REMODEL AREAS SHALL BE APPROVED BY GC.
- WORK AND MATERIALS SHALL CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY GC. WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- IN SOME INSTANCES THE IDF MAY BE OVER 90 METERS FROM THE IP DEVICE DUE TO LEGACY DESIGN STANDARDS WHEN THE BUILDING WAS CONSTRUCTED. IF TESTED CABLE DOES NOT PASS CERTIFICATION, CONTRACTOR MUST USE MIDSPAN EXTENDER INSTALLED INSIDE OF ENCLOSURE. REFERENCE DETAIL SHEETS FOR INSTALLATION DIAGRAM.

SECURITY CABLE DESIGNATION/TYPE *

DESIGNATION	DESCRIPTION	USAGE	PART #
A	1 PAIR 22AWG SHIELDED	ALARM MONITORING	BELDEN 5500FE
B	2 PAIR 20AWG SHIELDED	MOTION DETECTOR, BEAM DETECTORS	BELDEN 5441 FE
C	3 PAIR 22AWG SHIELDED	CARD READER	BELDEN 5542 FE
D	2/C 18AWG	CAMERA PWR, PUSH BUTTON, LOCK PWR	BELDEN 5300 UE
E	2 PAIR 22AWG SHIELDED	DATA, CCVS PTZ CONTROL	BELDEN 5541 FE
F	2/C 18AWG SHIELDED	HORN	BELDEN 5300 UE
G	COAXIAL W/2C POWER	VIDEO	
H	1 PAIR 20AWG TWISTED	INTERCOM	BELDEN 5400 FE
I	1 PAIR TWISTED SH 18AWG PLUS 2/C 18AWG	EMERGENCY PHONE	BELDEN 5302GE
J	ENHANCED CAT-5E BONDED-PAIR UTP	NETWORK AND CAMERA	BELDEN 7815A
K	ACCESS CONTROL COMPOSITE CABLE, 4C 18AWG, 3PR 22 AWG, 4C 22 AWG	LOCK PWR, CR, DOOR CONTACT, REX, 1 SPARE	WSECCOMP2835
L	CCTV COMPOSITE CABLE 2C 18AWG, UNSHIELDED, CABLE ETHERNET (PLENUM), R659 (PLENUM)	YELLOW JACKET CAM PWR, UTP/IP VIDEO ANALOG VIDEO CONNECT K112	WSECOMP-2817

* THIS TABLE IS REFERENCED AND IS SHOWN AS AN EXAMPLE OF ACCEPTABLE CABLE DESIGNATIONS. CONTRACTOR SHALL UTILIZE CABLE DESIGNATION TABLE FOR SHOP DRAWING AND RECORD DRAWING SUBMITTALS.

CONDUIT DESIGNATION KEY



SECURITY GENERAL NOTES

- THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, ON THE DRAWINGS OR IN THE BID SPECIFICATION.
- SINGLE LINE DIAGRAMS, SCHEMATICS, DETAILS AND CONDUIT PATHS SHOWN HEREIN ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM. ACCORDINGLY, FULL SHOP DRAWING DEVELOPMENT IS REQUIRED TO REALIZE THE SPECIFIED FUNCTIONS.
- DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE OWNER.
- REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
- INSTALL WALL MOUNTED CARD READERS, PUSH BUTTON SWITCHES, KEYPADS, KEY SWITCHES AND OTHER WALL MOUNTED FIELD DEVICES, AT 48 INCHES MAXIMUM ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. MOUNTING HEIGHT SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARD (TAS).
- PROVIDE PAINTING, PATCHING AND FINISHES, OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.
- DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS. ACTUAL ARCHITECTURAL CONDITIONS (SUCH AS DIRECTION OF SWING AND HAND OF DOOR) MAY VARY.
- WORK AND MATERIALS TO CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS, ASSOCIATED CODES REFERENCED BY THE (AHJ) AUTHORITY HAVING JURISDICTION, AND DETAILS FOR CONSTRUCTION, AS FURNISHED BY THE OWNER. WORK AND MATERIALS, NOT IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND DETAILS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- FOR INFORMATION REGARDING FIRE RATINGS AND OCCUPANCY SEPARATIONS, REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.
- NEW CONDUIT CONNECTIONS TO INCLUDE INTEGRAL PROTECTIVE BUSHINGS OR CHASE NIPPLES.
- NEW CONDUIT FOR FUTURE USE TO BE FILLED WITH 200 POUND STRENGTH PULL LINE. PROVIDE LABELING ON EACH END OF THE PULL LINE TO INDICATE LOCATION OF OTHER END.
- NEW CONDUITS SHALL BE CONCEALED WHENEVER POSSIBLE. SURFACE MOUNTED CONDUITS ARE PERMISSIBLE ONLY WHERE APPROVED. USE ONLY CONCEALED CONDUITS WITHIN FINISHED SPACES. THE ABOVE STANDARDS ALSO APPLY TO EXTERIOR SPACES. SEEK APPROVAL FROM THE OWNER FOR EACH AREA WHERE SURFACE CONDUIT IS NECESSARY.
- JUNCTION BOXES SHALL BE MINIMUM 4 INCH SQUARE DEEP STYLE, SIZED AS REQUIRED TO ACCOMMODATE CONDUITS UNLESS OTHERWISE NOTED. PROVIDE MOUNTING RING AS REQUIRED. PROVIDE A BLANK COVER PLATE FOR JUNCTION BOXES AND PULL BOXES WITH NO DEVICE.
- EXPOSED BOXES AND PANELS, MOUNTED IN OR ON EXTERIOR WALLS, TO BE NEMA 4.
- NEW CONDUIT TO BE 3/4 INCH EMT MINIMUM, UNLESS OTHERWISE NOTED. EXTERIOR CONDUIT TO BE RIGID.
- USE 120VAC CIRCUITS UNLESS OTHERWISE NOTED. VERIFY CURRENT LOAD ON EXISTING CIRCUITS BEFORE CONNECTING NEW LOADS. COORDINATE WITH OWNER IF ADDITIONAL CIRCUITS ARE REQUIRED.
- CONTRACTOR TO VERIFY CONDUIT AND PLENUM CABLE PATHS INDICATED ON THE DRAWINGS. CONTRACTOR MAY PROPOSE ALTERNATE ROUTING WHERE CONFLICTS ARE FOUND.
- CONTRACTOR IS RESPONSIBLE FOR CEILING INTEGRITY, THIS INCLUDES ROUTING ABOVE CONCEALED SPLINE INTERLOCKING TILES.
- CONTRACTOR TO OBTAIN RECERTIFICATION FOR FIRE RATED DOOR FRAME AND DOOR MODIFIED BY THIS PROJECT.
- ACCESS CONTROL LOW VOLTAGE WIRING TO BE PLENUM RATED.
- DO NOT EXCEED 180° IN AGGREGATE CONDUIT BENDS AND/OR 100' CONDUIT WITHOUT PULLBOX.
- PROVIDE GROUND BUSHING ON ALL CONDUIT END IN EQUIPMENT ROOM. BOND TO APPROVED BUILDING GROUND.
- LABEL CONDUIT EVERY 50' WITH DEVICE ID & EQUIPMENT ROOM ID WITH PERMANENT INK CABLE MADE WITH LASER CABLE MAKER. SECURE TO CONDUIT WITH CLEAR TAPE.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOP.
- ALL CABLES NOT IN CONDUIT ABOVE DROP CEILING SHALL BE INSTALLED IN MIN. 1" J-HOOK EVERY 5'-8". DO NOT EXCEED 40% FILL.
- LABEL CONDUIT EVERY 50' WITH DEVICE ID & EQUIPMENT ROOM ID WITH PERMANENT INK CABLE MADE WITH LASER CABLE MAKER. SECURE TO CONDUIT WITH CLEAR TAPE.
- LOCATE DEVICES AS SITE CONDITIONS REQUIRE.
- FIELD VERIFY ALL DIMENSIONS.
- REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK. CONTRACTOR TO PREPARE PROPOSAL FOR EACH DISCIPLINE. PROVIDE COORDINATION BETWEEN DISCIPLINES FOR CONSTRUCTION.
- NOTIFY DESIGN CONSULTANT AND OWNER WHERE EXISTING CONDITIONS REQUIRE REPAIR PRIOR TO INSTALLATION.
- COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- ALL CABLE PULLS WITHIN EXISTING AND NEW CONDUITS TO BE MADE AT SAME TIME.
- DEFINITION: BY DIVISION 8 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 8 CONTRACTOR.
- DEFINITION: BY DIVISION 26 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 26 CONTRACTOR.
- DEFINITION: BY DIVISION 27 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 27 CONTRACTOR.
- DEFINITION: BY DIVISION 28 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 28 CONTRACTOR.

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IAH-TERMINAL - SECURITY EXIT LANE

PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

SHEET TITLE

NOTES

SHEET NUMBER

TY001

SECURITY SENSITIVE INFORMATION – LAW ENFORCEMENT CONFIDENTIAL. DO NOT PHOTOCOPY. THIS INFORMATION IS PROTECTED AGAINST DISCLOSURE BY THE PROVISIONS CONTAINED IN THE HOMELAND SECURITY ACT OF 2002, 49 U.S.C. 114(s), AND TSA'S REGULATION IMPLEMENTING THIS AUTHORITY, SET FORTH IN 49 CFR PART 1520.

FILE NAME: W:\2018.010 - HAS EXIT LANE MODIFICATIONS\REV\2018.010 - HAS EXIT LANE MODIFICATIONS_CENTRAL 90CD 080421 (2021).rvt
 DATE/TIME: 9/9/2021 11:01:14 AM

ITEM	CAMERA NO.	SHEET NO.	LEVEL	CAMERA VIEW	CAMERA TYPE	CAMERA MOUNTING TYPE	TERMINATING IDF	REFERENCE MOUNTING DETAIL	DESCRIPTION
1	C2.C01	TY202	LEVEL 02	CR C2.R01	HD FIX	CEILING MOUNT	BDF C3320	1/TY501	NEW CAMERA
2	C2.C02	TY202	LEVEL 02	CR C2.R02	HD FIX	CEILING MOUNT	BDF C3320	1/TY501	NEW CAMERA
3	C2.C03	TY202	LEVEL 02	CR C2.R01	HD FIX	CEILING MOUNT	BDF C3320	1/TY501	NEW CAMERA
4	C2.C04	TY202	LEVEL 02	CR C2012	HD FIX	CEILING MOUNT	BDF C3320	1/TY501	NEW CAMERA
5	C2033	TY202	LEVEL 02	ACTIVITY AT LEVEL 2 LOBBY	360	CEILING MOUNT	BDF C3320	1/TY501	RELOCATE EXISTING CAMERA

CAMERA SCHEDULE NTS **1**

ITEM	READER NO.	SHEET NO.	LEVEL	LOCATION	ASSOCIATED CAMERA	TERMINATING IDF	DESCRIPTION
1	C2.R01	TY202	LEVEL 02	TER C EXIT LANE (MIDDLE DOOR)	C2.C01, C2.C03	BDF C3320	NEW CARD READER
2	C2.R02	TY202	LEVEL 02	TER C EXIT LANE (ENTRANCE DOOR)	C2.C02	BDF C3320	DOOR CONTACT
3	C2012	TY202	LEVEL 02	TER C EXIT LANE (EXIT DOOR)	C2033, C2.C04	BDF C3320	REUSE EXISTING CARD READER

CARD READER SCHEDULE NTS **2**

ITEM	ALARM NO.	SHEET NO.	LEVEL	LOCATION	ASSOCIATED CAMERA	TERMINATING IDF	DESCRIPTION
1	C2.A01	TY202	LEVEL 02	TER C EXIT LANE (DOUBLE DOOR)	C2031	BDF C3320	DOOR CONTACTS

ALARM POINT SCHEDULE NTS **3**

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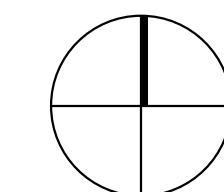
PROJECT NUMBER
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SHEET TITLE
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 SCHEDULES**

SHEET NUMBER

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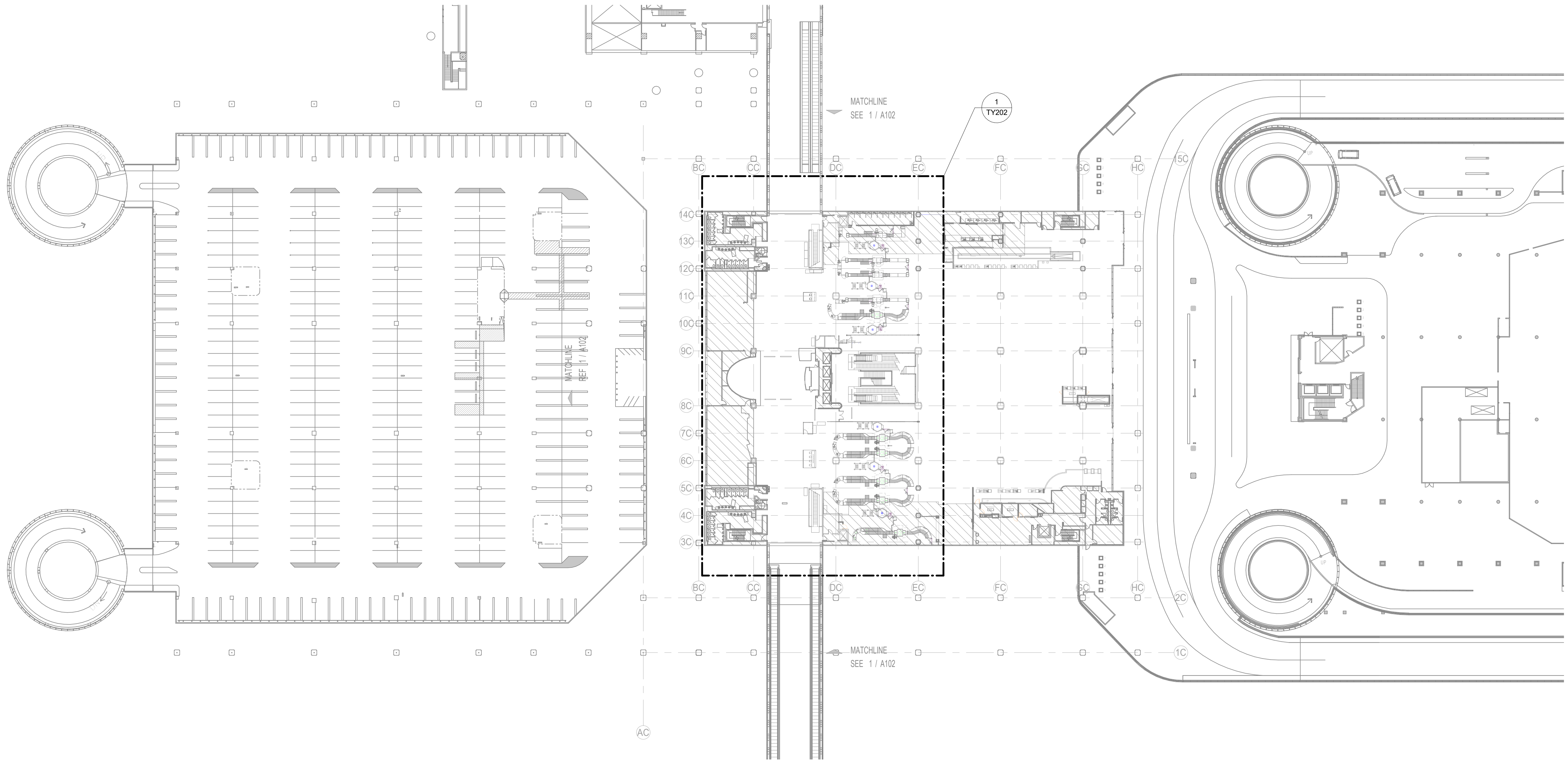
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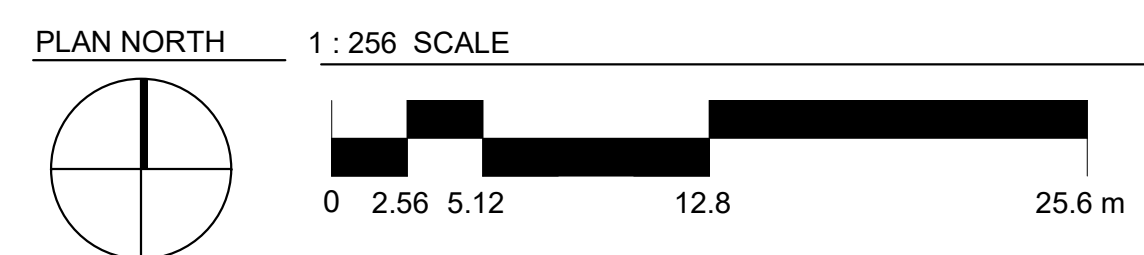


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OVERALL SECURITY FLOOR PLAN - TERMINAL C, LEVEL 02 1" = 40'-0" 1

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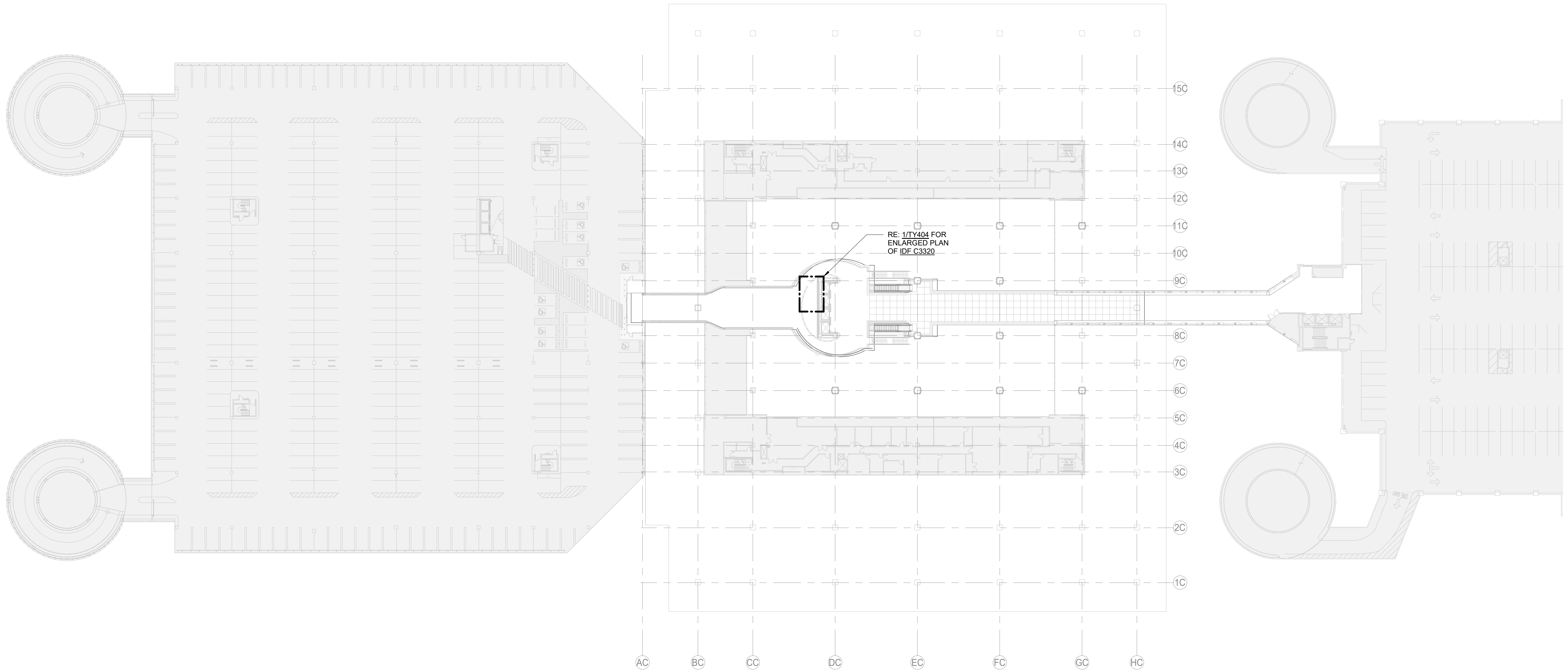
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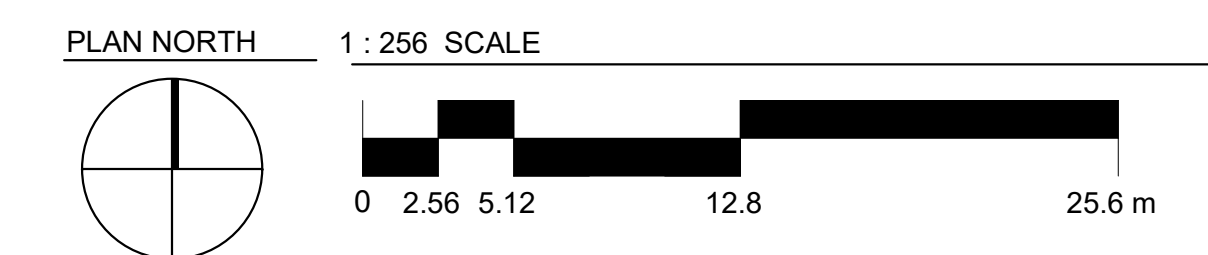
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OVERALL SECURITY FLOOR PLAN - TERMINAL C, LEVEL MEZZANINE 1" = 40'-0" 1

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PROJECT NUMBER
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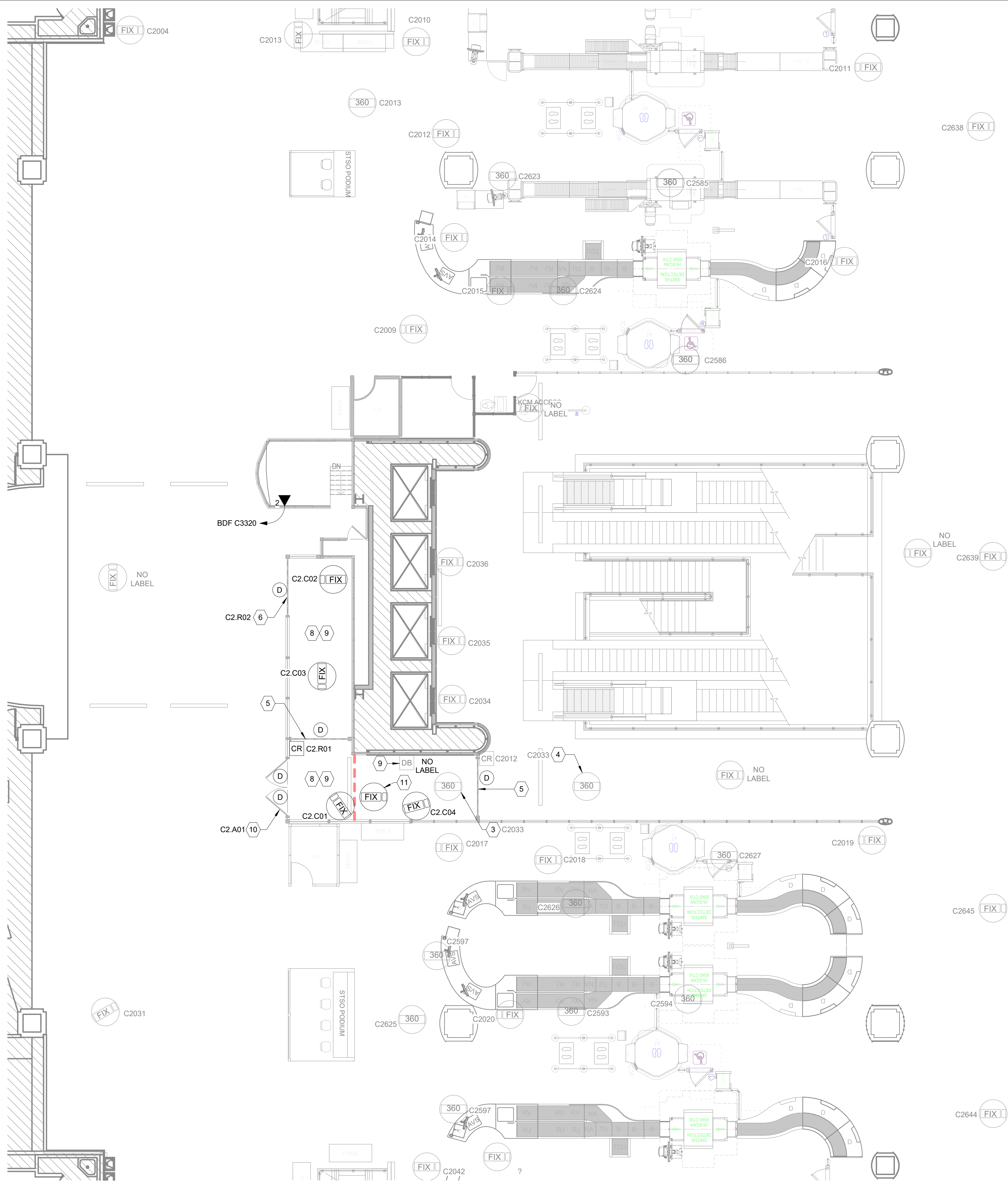
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SHEET NUMBER

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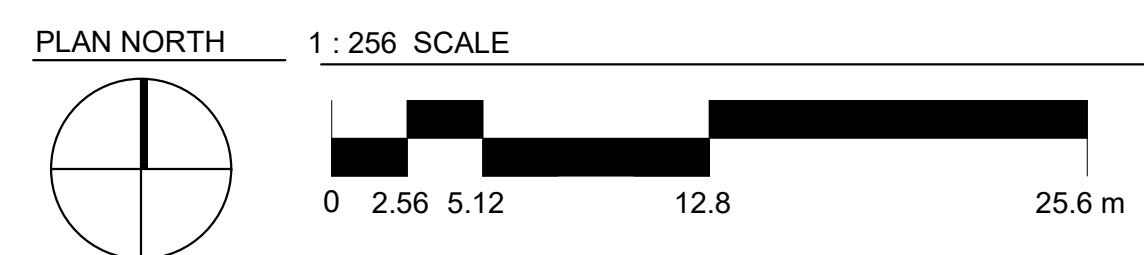
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- GENERAL NOTES:**
1. ALL SECURITY DEVICES SHALL TERMINATE IN BDF C3320.
 2. EXIT LANE CONTAINMENT DEVICES SHALL TERMINATE IN CCR AT BDF C3320.

- KEY NOTES:**
- 1 (E) CARD READER TO BE RELOCATED, REMOVE ALL UNUSED CABLES.
 - 2 RELOCATE (E) CARD READER TO THIS LOCATION.
 - 3 (E) CAMERA TO BE RELOCATED, REMOVE ALL UNUSED CABLES.
 - 4 RELOCATE (E) CAMERA TO THIS LOCATION.
 - 5 ADD (N) DOOR CONTACT AND CARD READER, RE: 1/TY500 FOR DOOR DETAIL.
 - 6 ADD DOOR CONTACT, RE: 2/TY500 FOR DOOR DETAIL.
 - 7 NOT USED.
 - 8 (E) SPEAKERS IN THE IMPACTED PROJECT AREA SHALL BE RELOCATED. COORDINATE SPEAKERS NEW LOCATIONS W/ HAS IT.
 - 9 (E) DURESS BUTTON IN THE IMPACTED AREA SHALL BE RELOCATED. COORDINATE NEW LOCATIONS W/ TSA REP.
 - 10 RE: 3/TY500 FOR DOOR DETAIL.
 - 11 EXIT LANE BREACH CONTROL CAMERA. PROVIDE QUANTITY AS REQUIRED BY SUPPLIER. TERMINATE IN CCR AT BDF C3320.



SECURITY FLOOR PLAN - TERMINAL C CENTRAL, LEVEL 02 1/8" = 1'-0" 1

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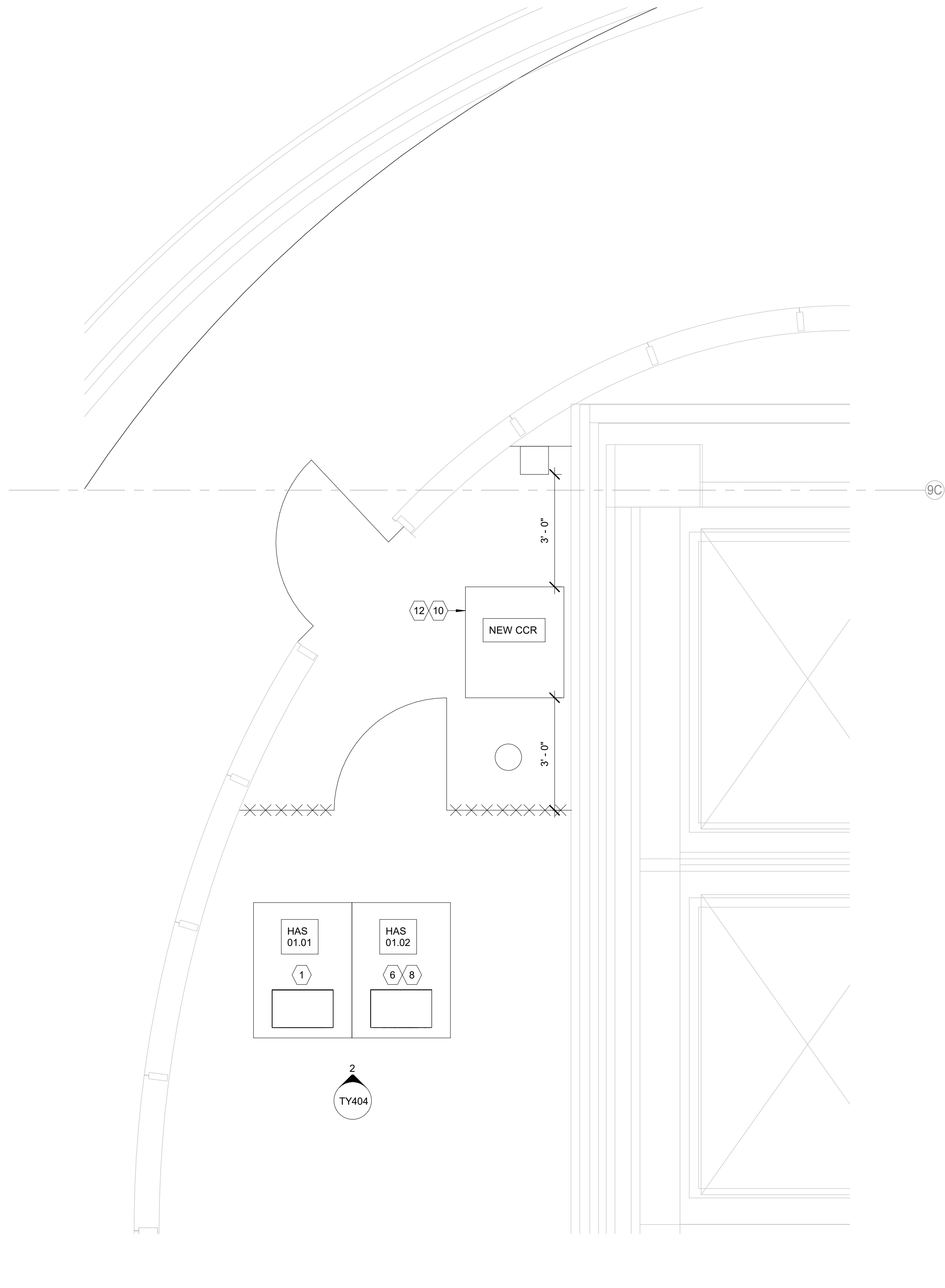
PROJECT NUMBER
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SHEET TITLE
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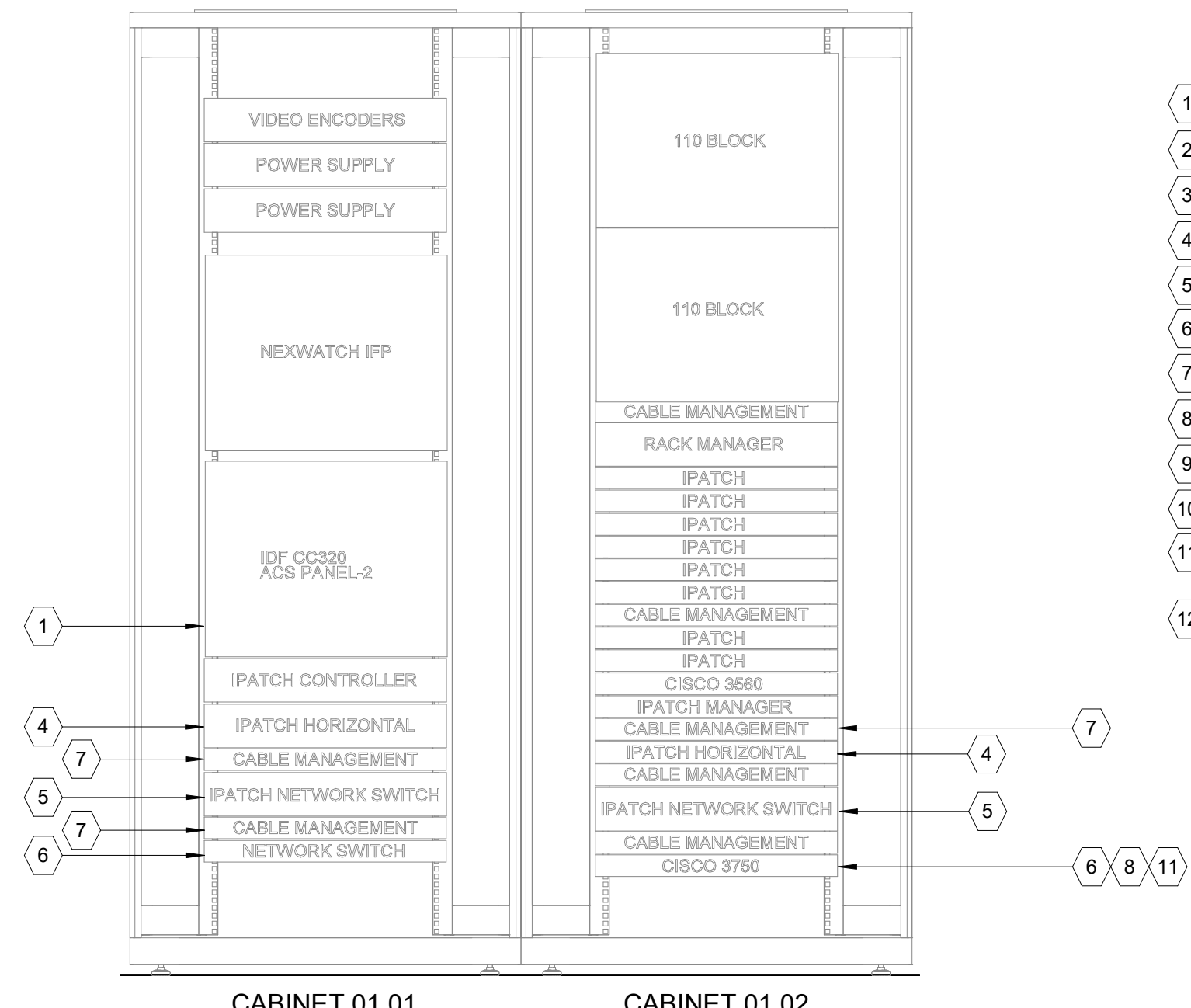
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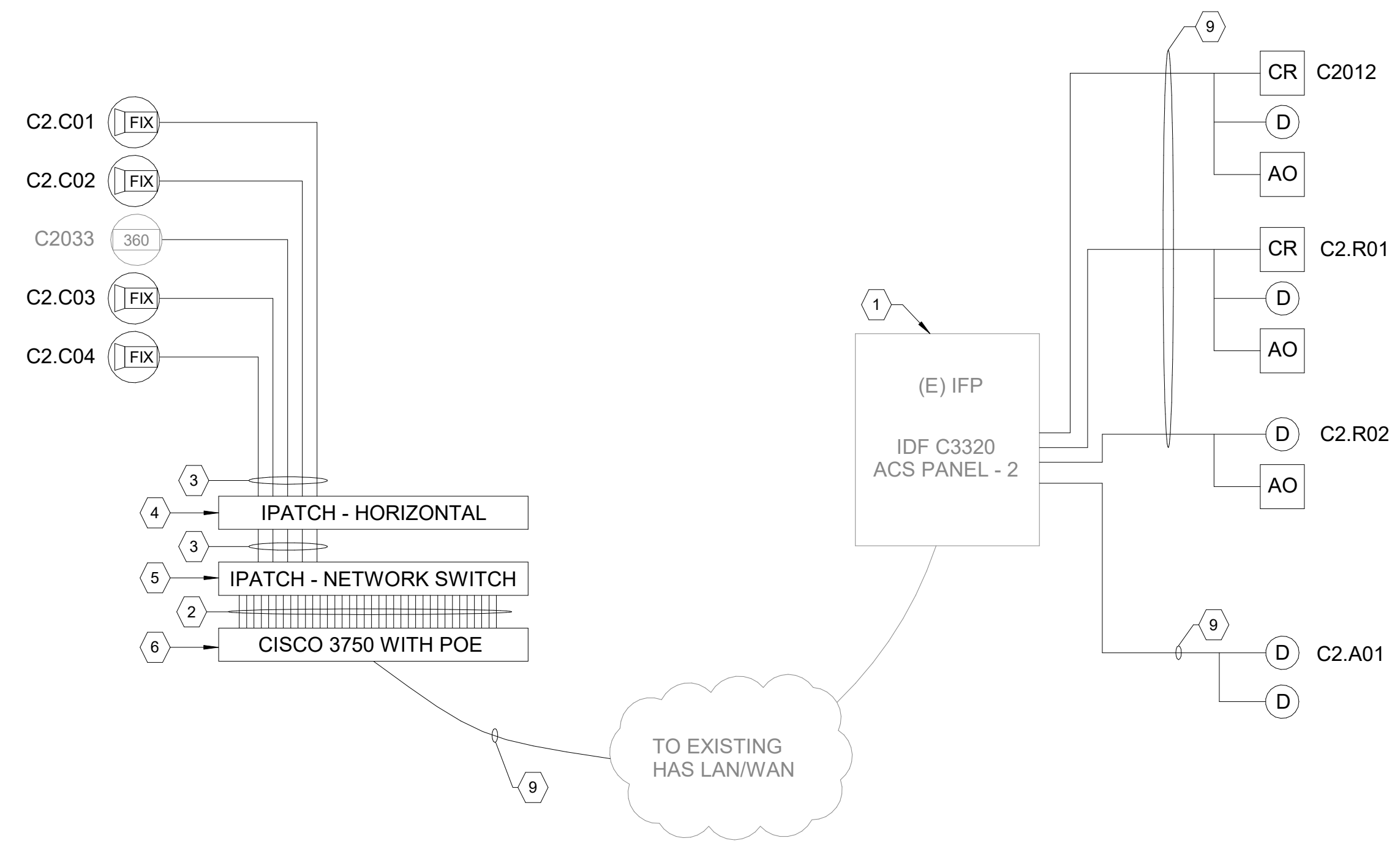


ENLARGED PLAN AT BDF C3320 1/2" = 1'-0" 1



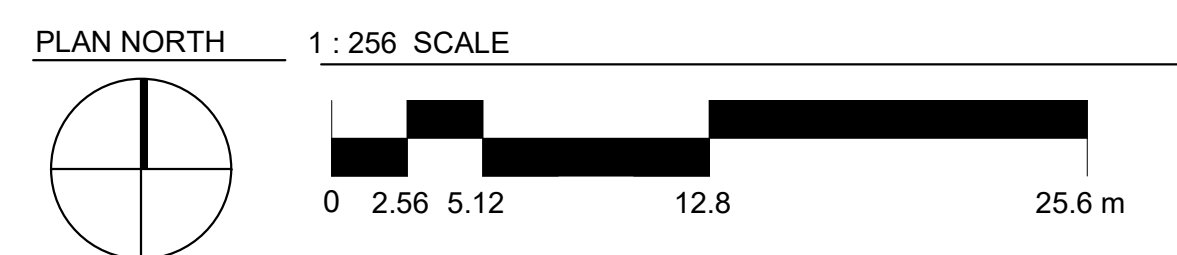
RACK ELEVATION AT BDF C3320 1" = 1'-0" 2

- KEY NOTES:**
- 1 (E) IFP. PROVIDE READER, INPUT, OUTPUT MODULES AS REQUIRED FOR THIS PROJECT.
 - 2 CAT6 PATCH CORD. ONE PER SWITCH PORT.
 - 3 CAT6 PATCH CORD. ONE (1) PER CAMERA (TYP).
 - 4 IPATCH HORIZONTAL, SYSTIMAX 360 48 PORT PATCH PANEL (EXISTING).
 - 5 IPATCH NETWORK SWITCH, SYSTIMAX 360 48 PORT PATCH PANEL (EXISTING).
 - 6 48 PORT NETWORK SWITCH (EXISTING).
 - 7 CABLE MANAGEMENT.
 - 8 TERMINATE CAMERAS IN THIS NETWORK SWITCH. COORDINATE PORTS ASSIGNMENT AND IP ADDRESSES W/ HAS IT.
 - 9 COMPOSITE ACCESS CONTROL CABLE, ONE (1) PER DOOR.
 - 10 THIS SPACE SHALL BE USED FOR CENTRAL CONTROL RACK (CCR). CCR RACK AND EQUIPMENT WILL BE BY OTHER.
 - 11 PROVIDE EIGHT (8) CAT 6 CABLES BETWEEN (E) HAS NETWORK SWITCH AND CCR FOR NETWORK CONNECTIVITY. COORDINATE WITH HAS IT FOR NETWORK PORTS AVAILABILITY.
 - 12 PROVIDE 120VAC 20A POWER CIRCUIT FOR CCR (BY DIV 26, ELECTRICAL).



BDF C3320 ONE-LINE DIAGRAM 12" = 1'-0" 3

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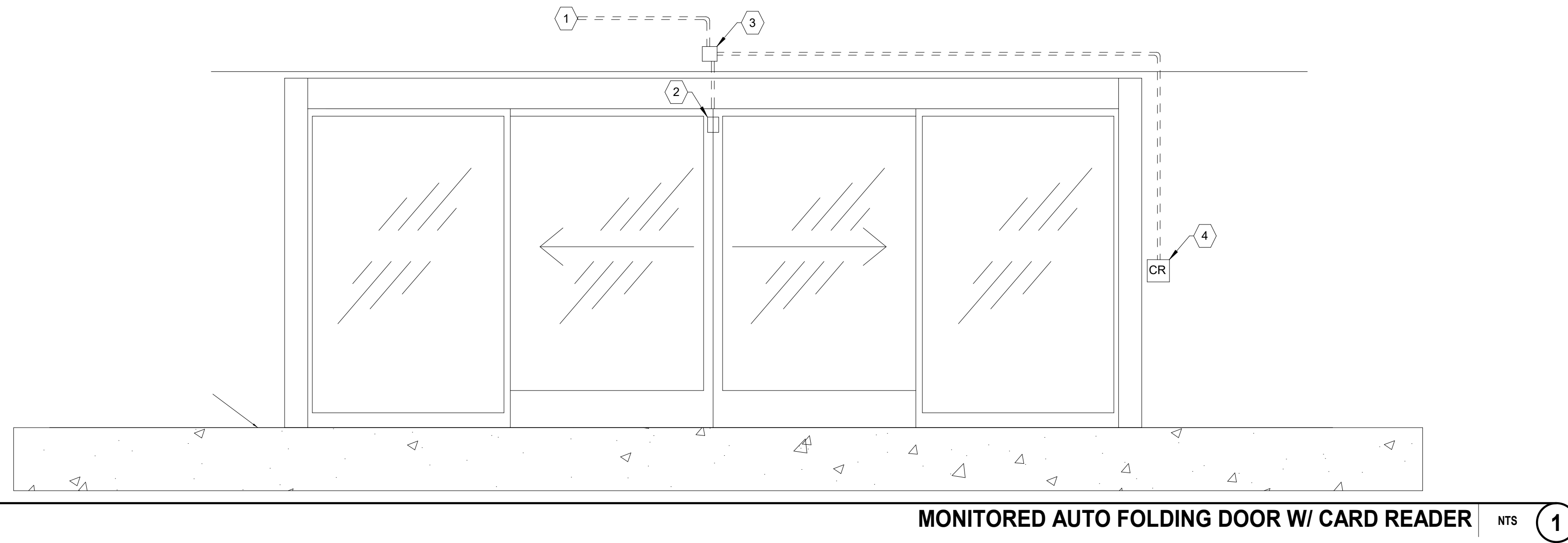
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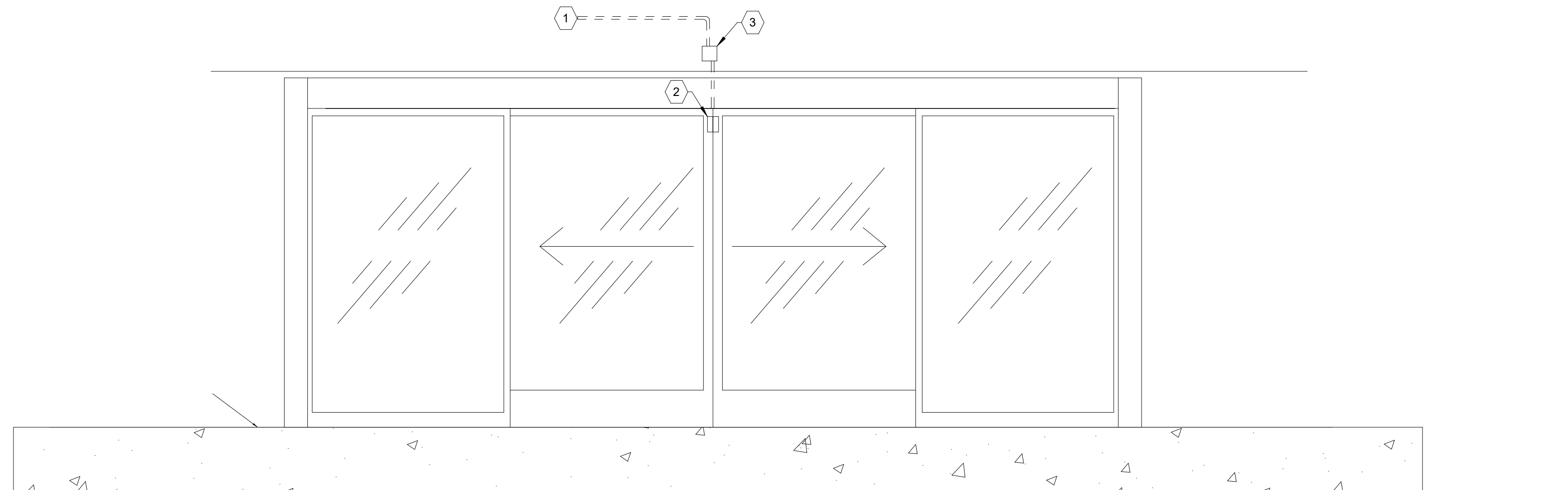
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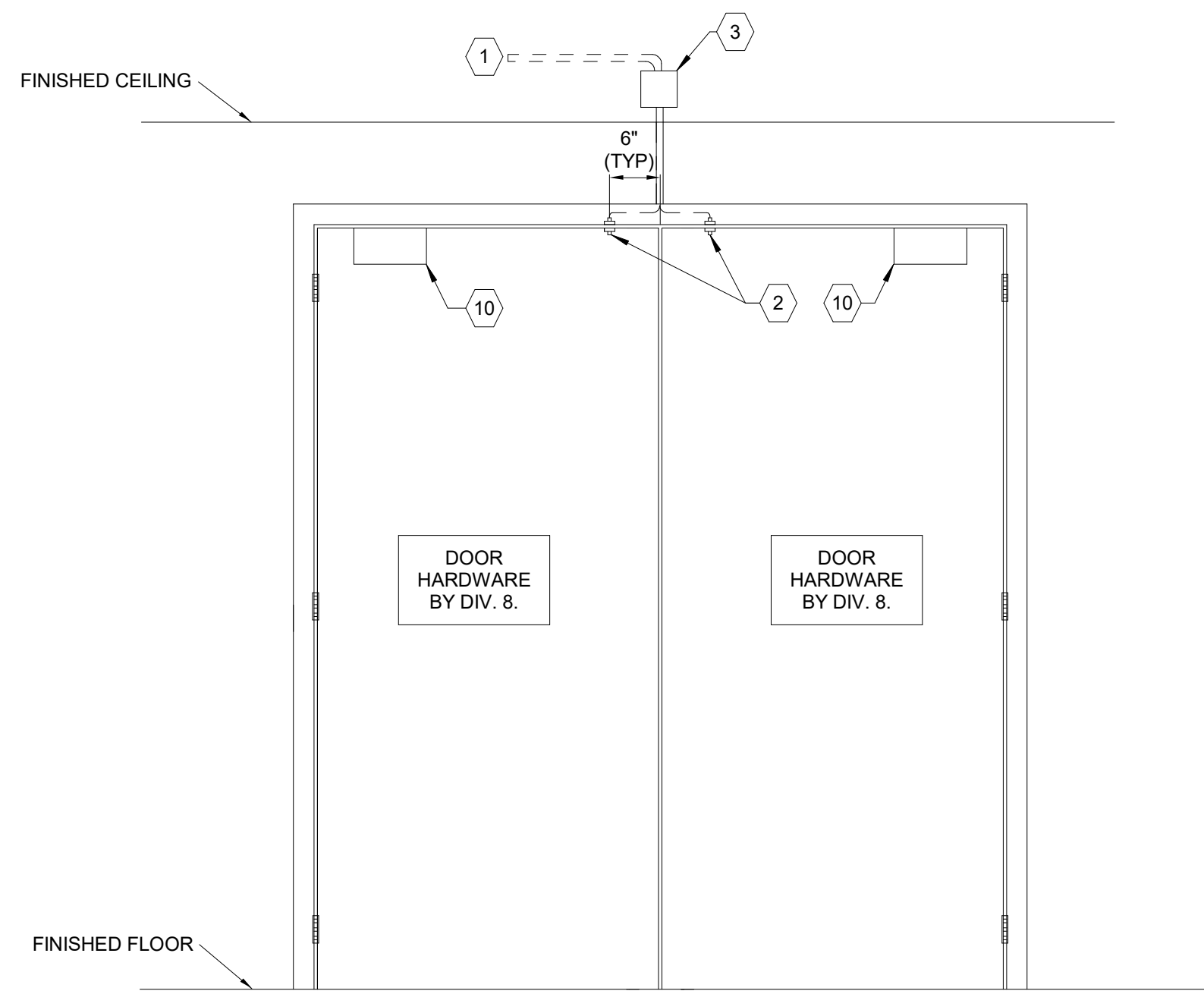
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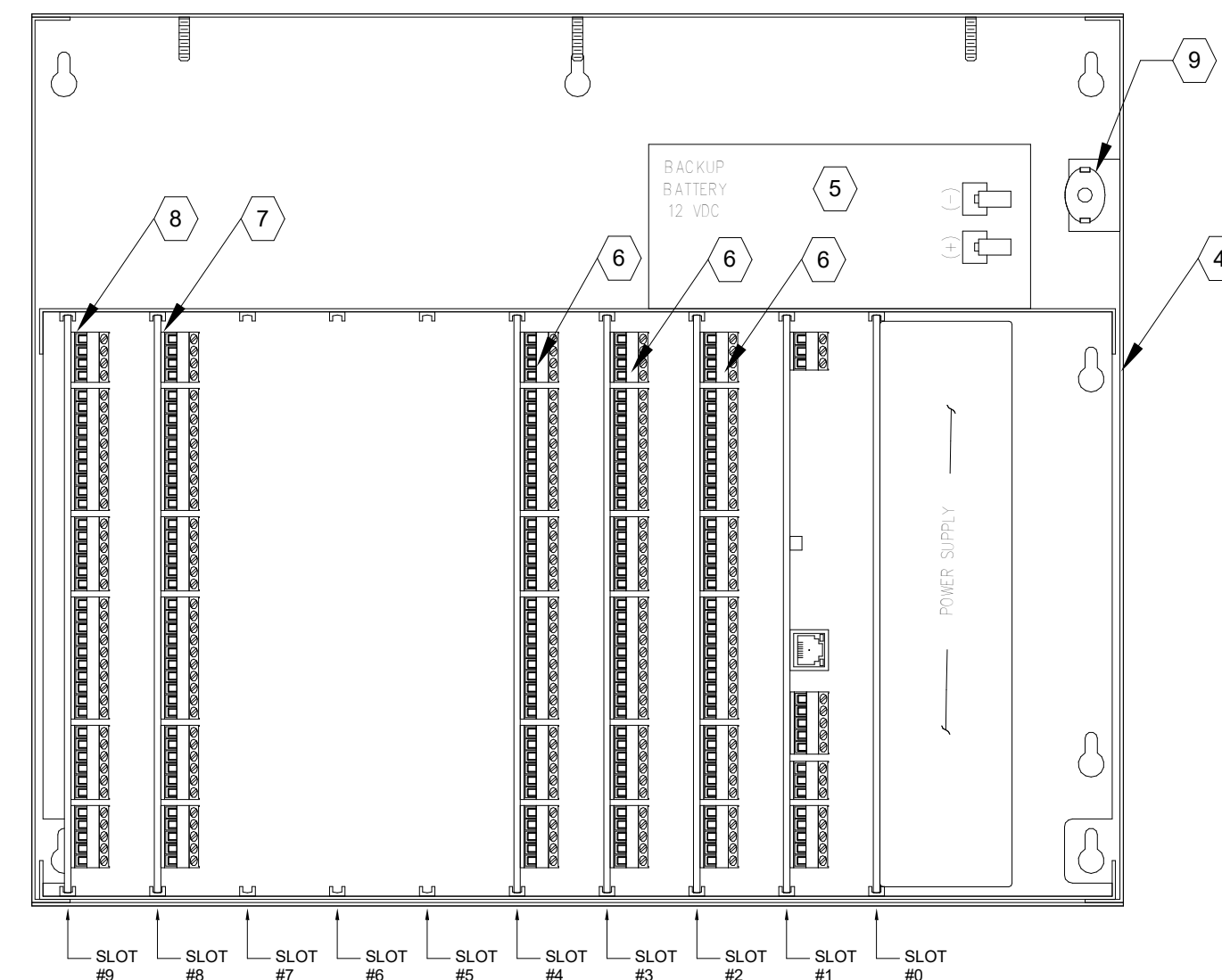
MONITORED AUTO FOLDING DOOR W/ CARD READER NTS 1



MONITORED AUTO FOLDING DOOR NTS 2



DOOR WITH ELECTRIFIED PANIC HARDWARE, DOOR SWITCHER, EPT, CARD READER NTS 3



IFP DETAIL NTS 4

GENERAL NOTES:

- VIEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT BOXED AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS OTHERWISE NOTED.
- CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS PER NEC.
- COORDINATE MOUNTING LOCATIONS, ROUGH-IN AND FINISHES WITH THE OWNER.
- CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY. ALL DOOR HARDWARE SHALL HAVE KEY CYLINDER UNLESS NOTED OTHERWISE. DOOR HARDWARE BY DIV. 8.
- PROVIDE CONDUIT ONLY WHERE WIRING CANNOT ROUTE IN DOOR FRAME.
- ALL SECURITY DOORS SHALL HAVE DOOR CLOSER.
- COORDINATE WITH HAS FOR ADDRESSING SCHEME.
- PROVIDE PATCH CABLE (CAT 6) FOR CONNECTIVITY TO THE NEAREST LAN/WAN.
- CONFIGURE THE INTELLIGENT CONTROLLER (IC) TO BE ABLE TO DETECT STATIC IP AUTOMATICALLY.
- PROVIDE BATTERY BACKUP TO SUPPORT FULL LOAD FOR 4 HOURS.
- SUBMIT PROGRAMMING WORK SHEETS AS GENERAL SUBMITTAL REQUEST FROM HAS IT.
- PROVIDE ADDITIONAL PANEL ENCLOSURE AND MODULE TO MEET REQUIREMENTS OF PROJECT.
- PROVIDE FIRE ALARM RELAY AS REQUIRED FOR AUTO DOOR.

KEY NOTES:

- 1" C. TO NEAREST IDF. TERMINATE CABLES IN IFP.
- DOOR POSITION SWITCH, FLUSH MOUNT.
- MOUNT 4S J-BOX 6" AFC. OR AS APPROVED BY THE OWNER.
- PROVIDE FIELD PANEL ENCLOSURE WITH POWER SUPPLY AND BATTERY BACK UP. THE FIRST FIELD PANEL SHALL HAVE THE INTELLIGENT CONTROLLED MOUNTED TO SLOT #1.
- BATTERY BACKUP SHALL BE SIZED TO CARRY FULL LOAD FOR FOUR (4) HOURS.
- DUAL READER MODULE. PROVIDE DUAL READER MODULES AS NECESSARY FOR THE PROJECT.
- PROVIDE INPUT MODULE IN SLOT 8. QTY AS REQUIRED FOR PROJECT.
- PROVIDE OUTPUT MODULE IN SLOT 9. QTY AS REQUIRED FOR PROJECT.
- TAMPER SWITCH
- DOOR CLOSER

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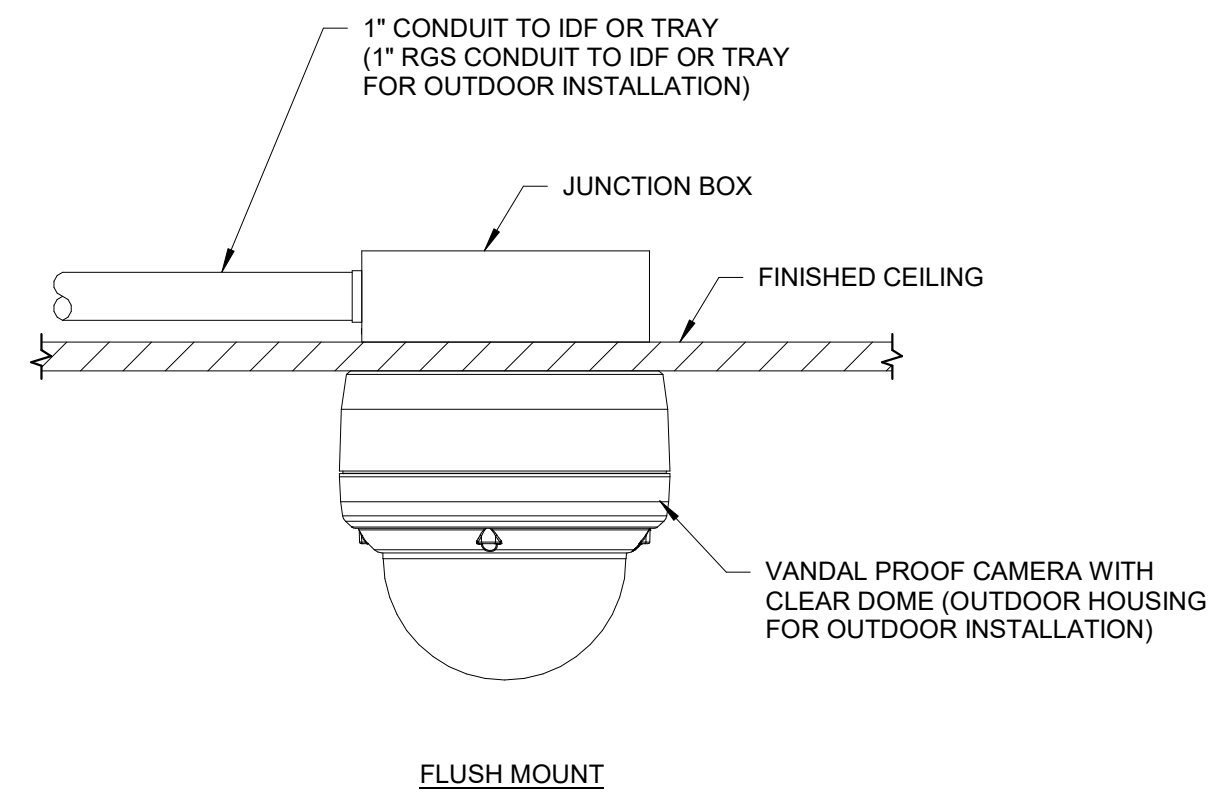
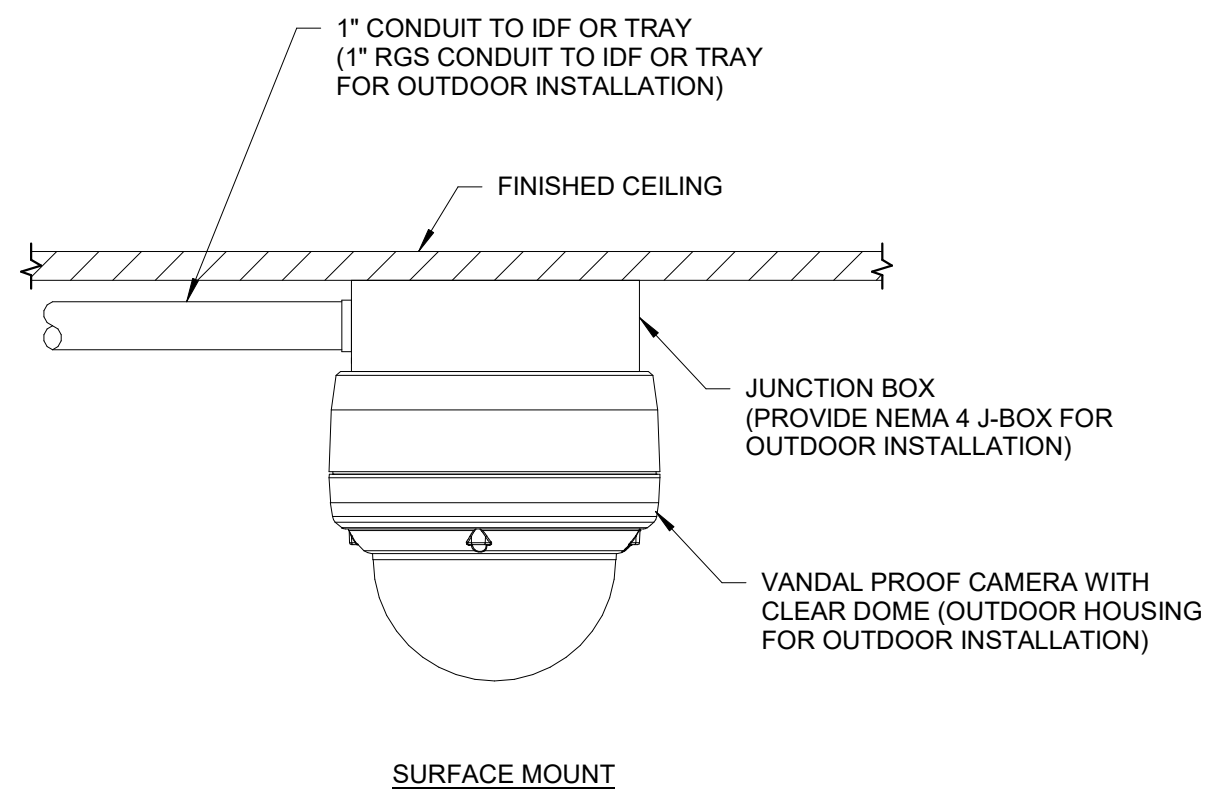
PROJECT LOCATION
 GEORGE BUSH IAH
 3500 NORTH
 TERMINAL RD.
 HOUSTON, TX 77032

PROJECT NUMBER
 1004345

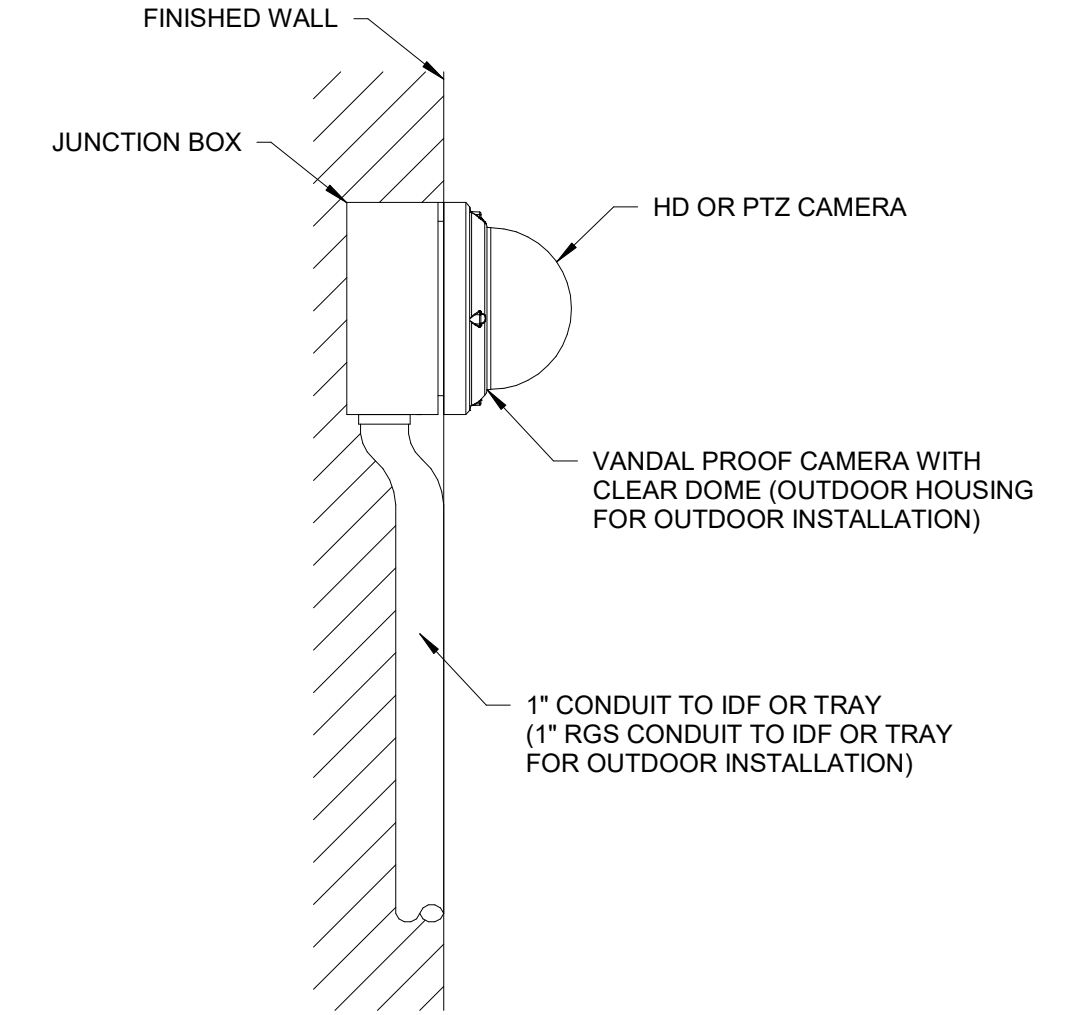
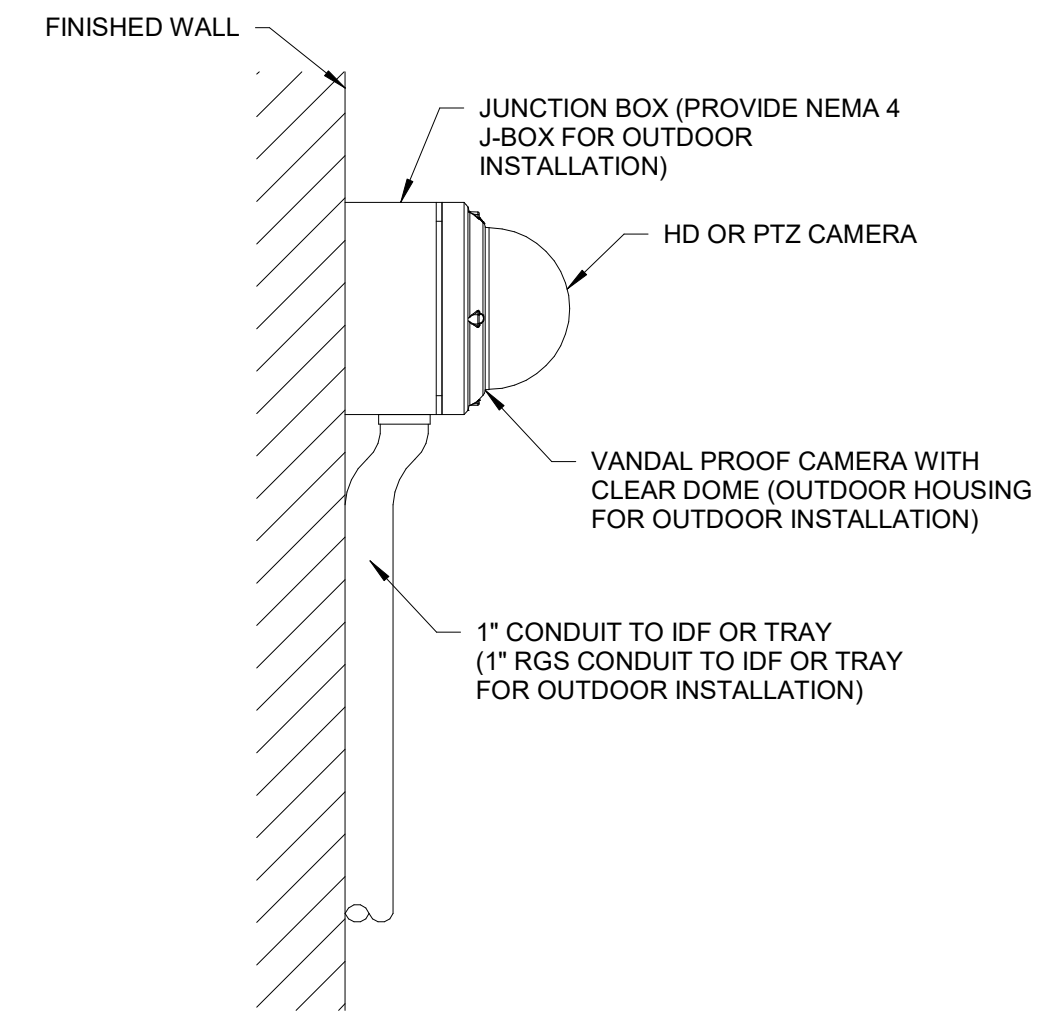
SHEET TITLE
 DOOR AND IFP
 DETAILS

SHEET NUMBER

TY500



TYPICAL CAMERA MOUNTING OPTION 1 - CEILING MOUNT FOR HD OR PTZ CAMERA NTS **1**



TYPICAL CAMERA MOUNTING OPTION 2 - WALL MOUNT FOR HD OR PTZ CAMERA NTS **2**

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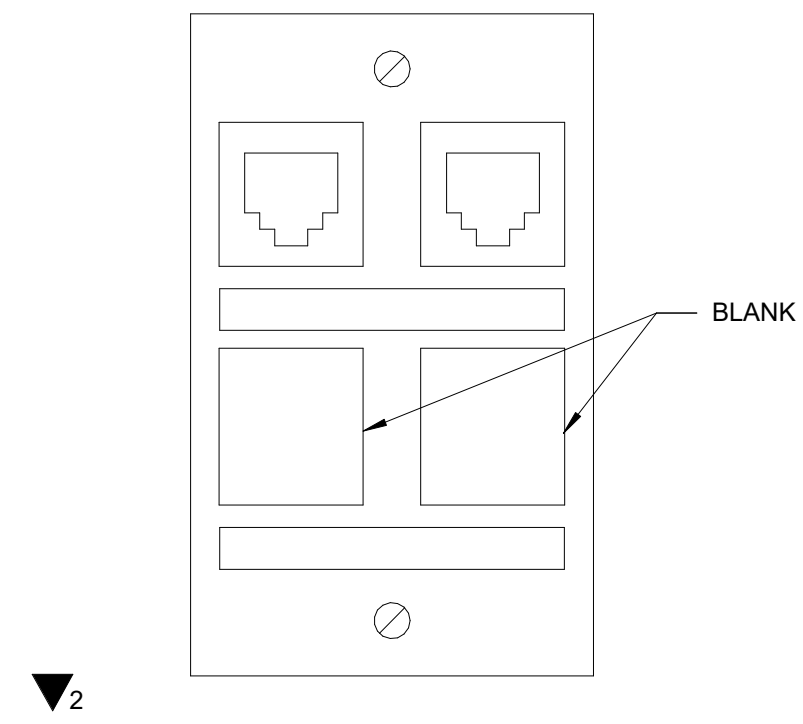
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SHEET TITLE
CAMERA DETAILS

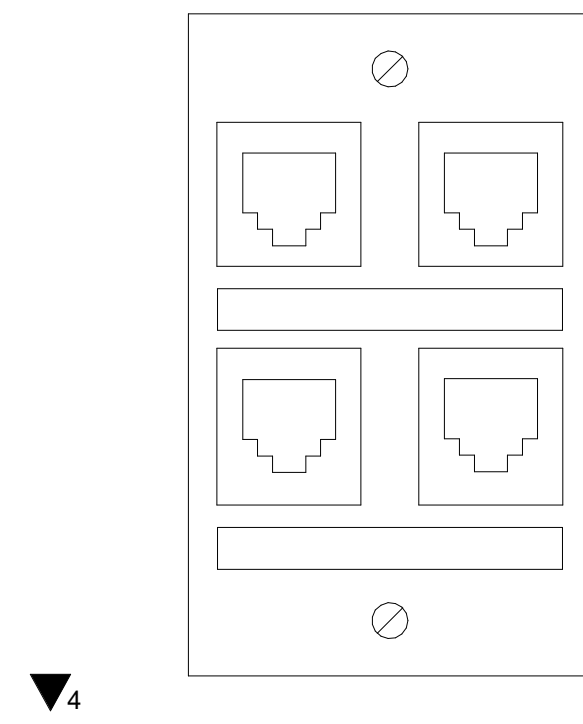
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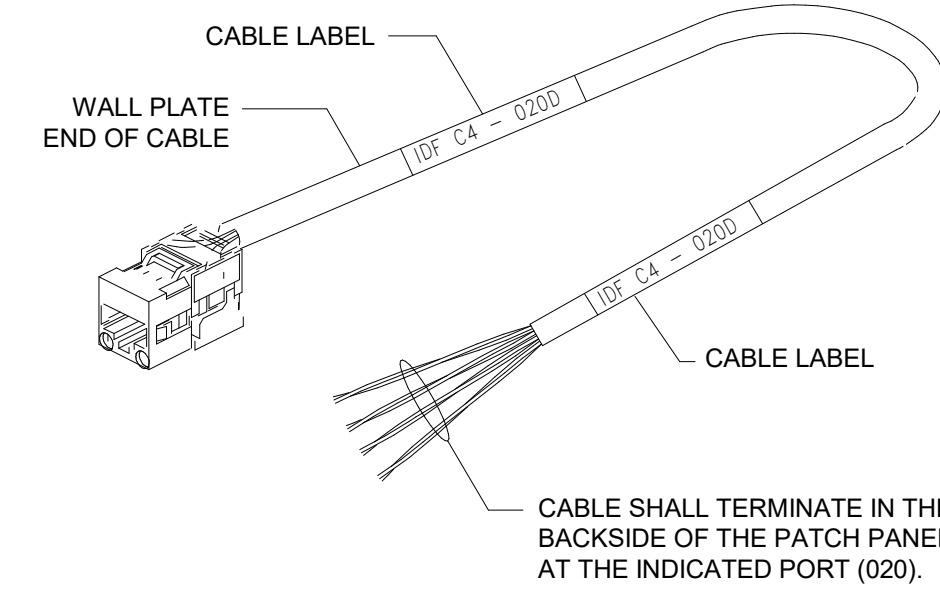
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WORK AREA OUTLET (2) NTS **1**



WORK AREA OUTLET (4) NTS **2**



COMMUNICATIONS CABLE LABELING NTS **3**

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SHEET TITLE
 TELECOM DETAILS

SHEET NUMBER

TY502