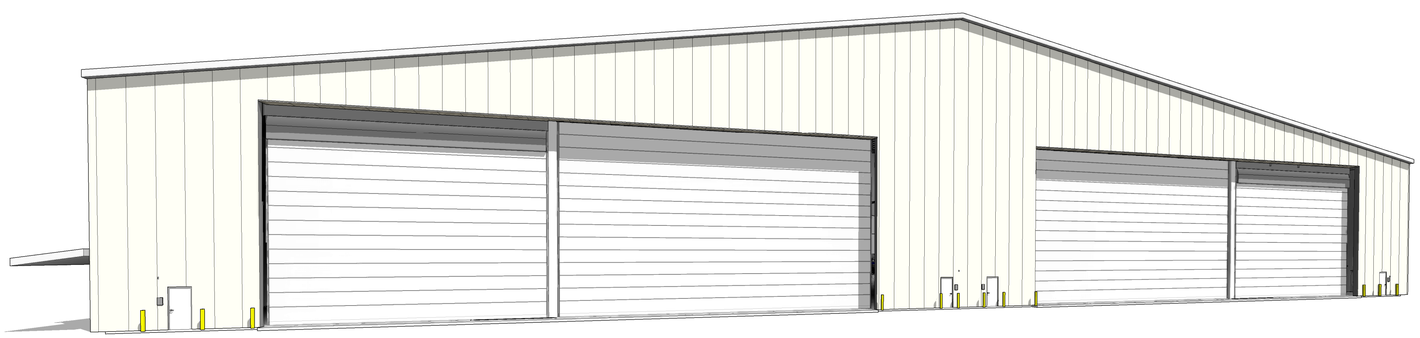
US Army Corps of Engineers ®
FORT WORTH DISTRICT

Larson Design Group

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT



PROJECT LOCATION

LOCATION

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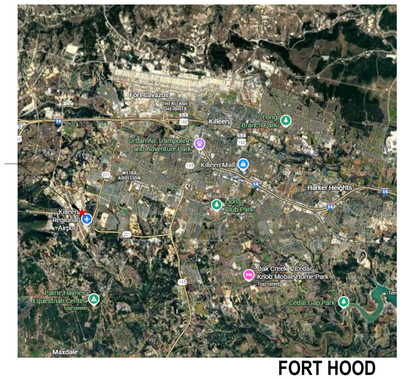

VICINITY

SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:
ISSUE DATE: MAY 28, 2026
VOLUME: DESIGN PACKAGE

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

Larson Design Group
3817 NW EXPRESSWAY
SUITE 840
OKLAHOMA CITY, OK 73112
(405) 722-7270

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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DESIGNED BY: B. BOURN
DRAWN BY: B. BOURN
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
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819 TAYLOR ST, FORT WORTH, TX 76102

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OKLAHOMA CITY, OK 73112

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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

COVER SHEET

SHEET ID
G-001

Plot Date: 5/26/2026 3:36:27 PM
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MATERIALS LEGEND

FOR PLANS AND DETAILS

- EXISTING WALL
- FACE BRICK
- CONCRETE BLOCK
- CONCRETE
- FRAME PARTITION (METAL STUD)
- ROUND STEEL COLUMN
- SQUARE STEEL COLUMN
- WIDE FLANGE STEEL COLUMN
- SQUARE CONCRETE COLUMN

FOR DETAILS

- GYPSUM BOARD
- GYPSUM SHEATHING
- PLYWOOD
- RIGID INSULATION BOARD
- INSULATED PANEL
- WOOD FRAMING (CONTINUOUS MEMBER)
- WOOD BLOCKING (DISCONTINUOUS MEMBER)
- FINISH WOOD
- MISCELLANEOUS METAL
- ALUMINUM
- BATT INSULATION
- EARTH FILL

NOTE: ABOVE MATERIAL INDICATIONS ARE STANDARD AND ARE NOT INTENDED AS A COMPLETE LISTING OF MATERIALS ON THE JOB.

SYMBOLS LEGEND

- PROPERTY LINE
- PAVING (CONCRETE)
- PAVING (ASPHALT)
- CONCRETE WALK
- TEST HOLE
- BENCHMARK / SPOT ELEVATION
- EXISTING BUILDING TO REMAIN
- EXISTING BUILDING TO BE REMOVED
- EXISTING BUILDING TO BE MODIFIED
- NEW BUILDING
- FENCE
- L8 / A-201: ELEV INDICATED / SHEET WHERE ELEV IS DRAWN — EXTERIOR ELEVATION REF.
- L8 / A-201: ELEV INDICATED / SHEET WHERE ELEV IS DRAWN — INTERIOR ELEVATION REF.
- 101: DOOR NUMBER
- 1t: FRAME ELEVATION
- 1i: PARTITION TYPE
- 0 / 0: STRUCTURAL GRID COORDINATES
- SIM 1 A101: BUILDING SECTION CUT MARK
- SIM 1 A101: WALL SECTION CUT MARK
- SIM 1 A101: DETAIL SECTION CUT MARK
- SIM 1 A101: DETAIL INDICATED / SHEET WHERE DETAIL IS DRAWN
- LARGER SCALE DETAIL MARK
- Room name 101: ROOM NAME AND NUMBER
- 512: CASEWORK SECTION IDENTIFICATION NUMBER — CASEWORK TAG, REF. CASEWORK SECTION SHEETS
- 1/A101: GENERAL DIRECTION OF VIEW / SHEET WHERE VIEW IS DRAWN / VIEW INDICATED — 3-DIMENSIONAL ISOMETRIC VIEW REF.
- 1/A101: VIEW INDICATED / SHEET WHERE VIEW IS DRAWN / GENERAL DIRECTION OF VIEW — 3-DIMENSIONAL CAMERA/ PERSPECTIVE VIEW REF.

SYMBOLS LEGEND

- PLAN NORTH / TRUE NORTH — NORTH ARROW SYMBOLS
- PLAN NORTH — 3-DIMENSIONAL ISOMETRIC NORTH ARROW SYMBOL
- 100.25: EXISTING SPOT ELEVATION
- 103: FINISH SPOT ELEVATION
- 100: EXISTING GRADE CONTOUR
- 103: FINISH GRADE CONTOUR
- 15' OAK: EXISTING TREE TO BE PROTECTED
- 18' ELM: EXISTING TREE TO BE REMOVED

NOTE: ADDITIONAL SYMBOLS/ABBREVIATIONS NOT SHOWN OR DEFINED WITHIN THIS SHEET MAY OCCUR AND ARE DEFINED ON OTHER DRAWINGS.

ABBREVIATIONS

AB	ABOVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
APPROX, APP	APPROXIMATELY
ATFP, AT/FP	ANTI-TERRORISM/FORCE PROTECTION
AWC	ACOUSTICAL WALL COVERING
BLDG	BUILDING
BM	BENCH MARK
BRG	BEARING
BTM	BOTTOM
℄	CENTERLINE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CJ	CONTROL JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DTL	DETAIL
DWR	DRAWER
EJ, EXP JT	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EXIST, EXSTG	EXISTING
EXT, EXTR	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF, FIN FLR	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIO	FOR INFORMATION ONLY
FL	FLOW LINE
GA	GAUGE
GI	GALVANIZED IRON
GWB, GYP BD	GYPSUM BOARD
HC, HDCP	HANDICAPPED (ACCESSIBLE)
HD	HEAD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
INSUL	INSULATION
INT, INTR	INTERIOR
JST	JOIST
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LP	LIGHT POLE
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MFR, MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
PL	PLATE
PLYWD	PLYWOOD
R	RADIUS OR RISER
RE:, REF	REFER
REINF	REINFORCING / REINFORCED
REQD	REQUIRED
RI	ROUGH IN
RM	ROOM
RO	ROUGH OPENING
SB	SMART BOARD
SC	SOLID CORE
SCHED	SCHEDULE / SCHEDULED
SIM	SIMILAR
SJ	SCORED JOINT
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL
TB	TACK BOARD
TOC	TOP OF CURB
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WD	WOOD

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LP101	LIFE SAFETY FLOOR PLAN - OVERALL
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GC001	GENERAL NOTES
CD101	DEMOLITION PLAN
CS101	SITE PLAN
CS102	PROJECT LOCATION AND STAGING AREA MAP
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S-002	GENERAL STRUCTURAL NOTES
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SD102	ENLARGED DEMO FLOOR PLAN AREA HB & HC
SD201	DEMO ELEVATION PLAN AREA HB & HC
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SD203	ENLARGED DEMO ELEVATION PLAN - AREA HC
S-101	OVERALL NEW FOUNDATION PLAN
S-102	ENLARGED NEW FOUNDATION PLAN
S-111	OVERALL NEW CATWALK FRAMING PLAN - AREA HB & HC
S-112	NEW CATWALK FRAMING PLAN - AREA HB
S-113	NEW CATWALK FRAMING PLAN - AREA HC
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S-200	NEW CONSTRUCTION OVERALL ELEVATION AREA HB & HC
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S-202	ENLARGED NEW CONSTRUCTION ELEVATION AREA - HC
S-203	OVERALL INTERIOR FRAMING ELEVATION AREA - HB & HC
S-204	ENLARGED INTERIOR FRAMING ELEVATION - AREA HB
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S-206	NEW CATWALK FRAMING ELEVATIONS AND SECTION
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S-501	TYPICAL STRUCTURAL DETAILS
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S-503	STRUCTURAL DETAILS
S-504	STRUCTURAL DETAILS
S-505	STRUCTURAL DETAILS
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6	

NUMBER	NAME
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FAD101	FIRE ALARM DEMO FLOOR PLAN - HB
FAD102	FIRE ALARM DEMO FLOOR PLAN - HC
FA101	FIRE ALARM FLOOR PLAN - OVERALL
FA102	FIRE ALARM FLOOR PLAN - HB
FA103	FIRE ALARM FLOOR PLAN - HC
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P-100	FLOOR PLAN - PLUMBING - OVERALL
P-101	FLOOR PLAN - PLUMBING - AREA HB
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E-601	EXISTING ONE-LINE DIAGRAM
E-602	HANGAR DOOR ELECTRICAL LOAD DIAGRAM
15	
TOTAL SHEETS IN SET: 95	

STATE OF OKLAHOMA — BRIAN BOURN — MAY 28, 2026 — A08515 — LICENSED ARCHITECT

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SHEET INDEX, SYMBOLS AND ABBREVIATIONS

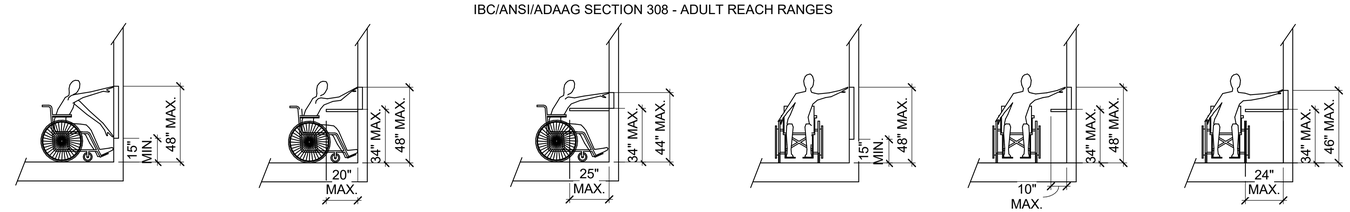
SHEET ID
G-002

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt
Plot Date: 5/26/2026 3:36:29 PM

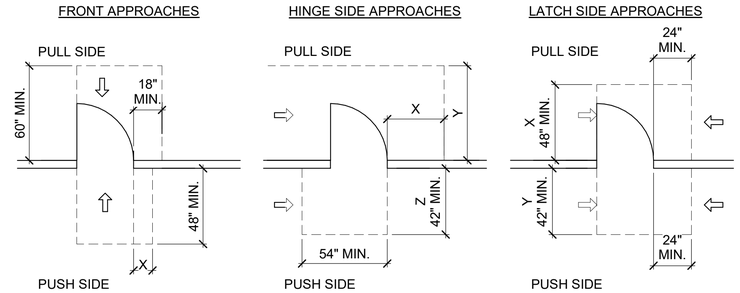
TYPICAL HANDICAP ACCESSIBLE MOUNTING HEIGHTS ABOVE FINISH FLOOR

DIMENSION NAME	ELEMENT	ANSI A117.1 GUIDELINE REFERENCE	MOUNTING HEIGHT REFERENCE ABOVE F.F.	ADDITIONAL COMMENTS
M1	DRINKING FOUNTAIN (STANDING)	602.4	SPOUT HT.	
M2	DRINKING FOUNTAIN (WHEELCHAIR)	602.4	SPOUT HT.	FOR SPOUT 30" OR LESS, 24" KNEE AND 12" TOE CLEARANCE NOT REQUIRED IF PARALLEL APPROACH IS PROVIDED
M3	GRAB BAR AT TOILET - 18" VERTICAL	604.5	TO BOTTOM OF RAIL	
M4	GRAB BARS AT TOILET - HORIZONTAL	604.9 & 609.4	TO TOP SURFACE OF RAIL	THE GRAB BAR ON REAR WALL OF NON-ADULT TOILETS CAN BE SPLIT WHEN IT CONFLICTS WITH WATER VALVE
M5A	HANDRAILS	505.4	TO TOP SURFACE OF RAIL	M5A = ADULT DIMENSION, DIMENSION OF SECOND HANDRAIL TO F.F.
M6	LAVATORY	606.3	TO HIGHEST POINT OF LAVATORY RIM OR COUNTER	
M7	MIRROR	606.3	TO BOTTOM EDGE OF REFLECTING SURFACE	
M8	MIRROR ABOVE LAVATORY	606.3	TO BOTTOM EDGE OF REFLECTING SURFACE	
M9	TOILET PAPER DISPENSOR	604.7 & 604.10	TO BOTTOM OF DISPENSER OUTLET	
M10	URINAL	605	TO RIM, 13-1/2" MIN PROJECTION	
M11	URINAL FLUSH CONTROLS	605.4 & 309	TO TOP OF CONTROL	
M12	TOILET SEAT HEIGHT	604.4		
M13	WATER CLOSET FLUSH CONTROLS	604.6	LOCATED ON WHEELCHAIR SIDE	
P1	WATER CLOSET CENTERLINE FROM WALL	604.2	WALL TO CENTERLINE OF WATER CLOSET	
	FIRE EXTINGUISHER	308	TO RELEASE CLAMP	

IBC/ANSI/ADAAG SECTION 308 - ADULT REACH RANGES



IBC/ANSI/ADAAG - ACCESSIBLE ROUTE (TYPICAL FOR ALL DOORS)



NOTE: X=12 IN. IF DOOR HAS BOTH A CLOSER AND LATCH

NOTE: X=36 IN. MIN. IF Y=60 IN.
X=42 IN. MIN. IF Y=54 IN.

NOTE: Z=48 IN. MIN. IF DOOR HAS BOTH A CLOSER AND LATCH.

NOTE: X=54 IN. MIN. IF DOOR HAS CLOSER

NOTE: Y=48 IN. MIN. IF DOOR HAS CLOSER

HANDICAP ACCESSIBILITY ANALYSIS

I. APPLICABLE CODES AND CRITERIA

IN ORDER TO PROVIDE THE BEST ACCESSIBILITY, THE MOST STRINGENT REQUIREMENTS OF THE GUIDELINES BELOW HAVE BEEN EMPLOYED IN THIS DESIGN.

A. INTERNATIONAL BUILDING CODE 2018 (IBC) INTERNATIONAL CODE COUNCIL / AMERICAN NATIONAL STANDARDS INSTITUTE ICC / ANSI A117.1 - 2003

B. ARCHITECTURAL BARRIERS ACT (ABA) STANDARD (DESIGN REQUIREMENTS MANUAL, SECTION 1.9)

II. PROJECT SCOPE

A. REMODEL

III. PRIMARY USER GROUPS

A. ADULTS

IV. ASSEMBLY SEATING ANALYSIS -

NOT APPLICABLE

LEGEND

- ACCESSIBLE PARKING SPACE FOR CARS OR VANS OR ACCESSIBLE SEAT
- ACCESSIBLE ENTRANCE
- ACCESSIBLE ROUTE TO ACCESSIBLE ENTRANCES OR FACILITIES
- 60" WHEELCHAIR TURNING AREA
- HC — ACCESSIBLE ELEMENT
- AR — AREA OF REFUGE
- T-TURN FOR WHEELCHAIR ACCESS

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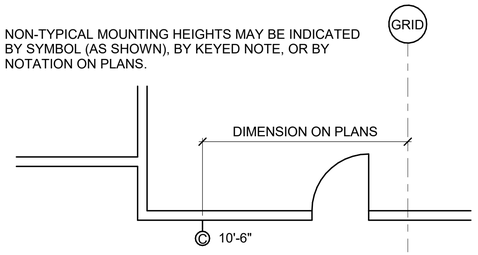
TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS, LOCATIONS AND CONFIGURATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED (BOTH HORIZ AND VERT) BY A PLAN OR DETAIL PLAN.

SPECIFIC VERT DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, OR DETAIL ELEVATIONS AND SPECIFIC HORIZ DIM SHOWN BY PLANS AND DETAIL PLANS TAKE PRECEDENCE OVER TYPICAL MOUNTING HEIGHTS AND LOCATION RULES.

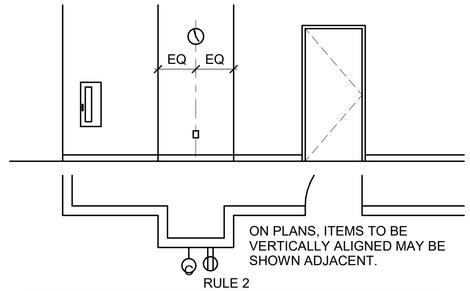
NON-TYPICAL MOUNTING HEIGHTS MAY BE INDICATED BY SYMBOL (AS SHOWN), BY KEYED NOTE, OR BY NOTATION ON PLANS.



RULE 1

WHEN COMPLETELY DIMENSIONED ON PLANS

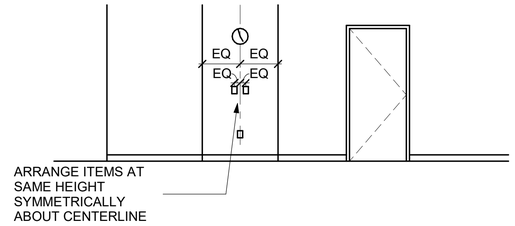
WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZONTALLY CENTER ITEM ON FACE OF COLUMN OR PILASTER. ALIGN VERTICALLY CENTERS OF MULTIPLE ITEMS HAVING DIFFERING TYPICAL MOUNTING HEIGHTS.
WHEN MULTIPLE ITEMS HAVING THE SAME TYP MOUNTING HEIGHT ARE INDICATED, HORIZONTALLY CENTER GROUP OF ITEMS ON FACE OF COLUMN OR PILASTER (SEE RULE 3).



RULE 2

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZ CENTER GROUP OF SIMILAR ITEMS HAVING THE SAME MOUNTING HEIGHT(S) ABOUT THE CENTERLINE OF THE COLUMN OR PILASTER.
WHEN APPLICABLE, COMBINE THIS RULE WITH RULE 2 (PREVIOUS) TO SYMMETRICALLY ARRANGE GROUPS OF ITEMS HAVING BOTH DIFFERING AND SIMILAR MOUNTING HEIGHTS.

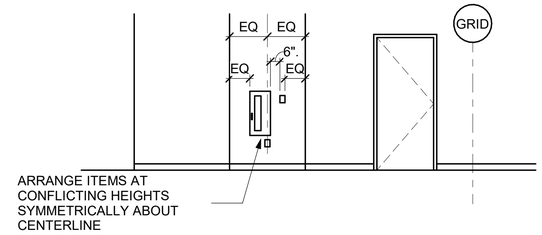


RULE 3

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZONTALLY CENTER GROUP OF DISSIMILAR ITEMS HAVING CONFLICTING MOUNTING HEIGHT(S) ABOUT THE CENTERLINE OF THE COLUMN OR PILASTER.

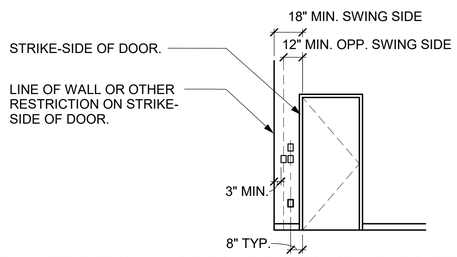
WHEN APPLICABLE, COMBINE THIS RULE WITH RULE 2 AND/OR RULE 3 (PREVIOUS) TO SYMMETRICALLY ARRANGE GROUPS OF ITEMS HAVING DIFFERING, SIMILAR, AND CONFLICTING MOUNTING HEIGHTS.



RULE 4

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJ TO STRIKE SIDE OF DOOR, AND WHEN STRIKE-SIDE CLEARANCE IS BETWEEN 12 INCHES AND 18 INCHES, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO FRAME USING TYP OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.

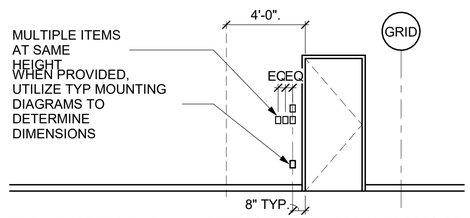


WHEN MULTIPLE ITEMS HAVING THE SAME TYP MTG HGT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO FRAME USING TYP OFFSET DIM AND PLACE REMAINING ADJ TO FIRST ON SIDE OPP FRAME AS ILLUSTRATED BY THIS DIAGRAM. DO NOT CROWD MULTIPLE ITEMS AGAINST WALL OR RESTRICTION.

RULE 5

NOT DIMENSIONED AND LOCATED ADJ TO MIN STRIKE-SIDE OF DOOR

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO DOOR, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO FRAME USING TYP OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.
WHEN MULTIPLE ITEMS HAVING THE SAME TYP MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO FRAME USING TYP OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE FRAME AS ILLUSTRATED BY THIS DIAGRAM.

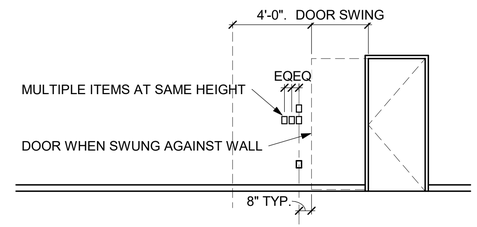


SIMILAR RULE APPLIES WHEN ADJACENT TO WINDOW. FOR PURPOSES OF THESE RULES, ITEMS SHOWN APPROX LOCATED WITHIN 4 FEET OF DOOR ARE CONSIDERED TO BE ADJACENT TO DOOR (OR WINDOW).

RULE 6

NOT DIMENSIONED AND LOCATED ADJACENT TO DOOR (OR WINDOW)

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO DOOR, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO SWING USING TYP OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.
WHEN MULTIPLE ITEMS HAVING THE SAME TYP MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO SWING USING TYP OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE FRAME AS ILLUSTRATED BY THIS DIAGRAM.

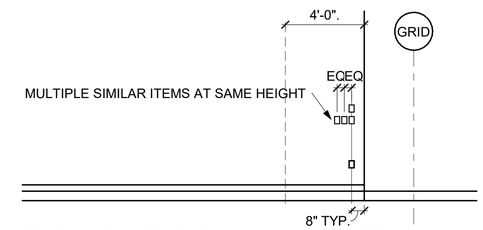


FOR PURPOSES OF THESE RULES, ITEMS SHOWN APPROX. LOCATED WITHIN 4 FEET OF OPEN DOOR ARE CONSIDERED TO BE ADJACENT TO DOOR.

RULE 7

NOT DIMENSIONED AND LOCATED ADJ TO DOOR AND ON WALL AGAINST WHICH DOOR SWINGS

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJ TO CHANGE IN PLANE OF WALL, AND WHEN NO OTHER TYP CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO PLANE CHANGE USING TYP OFFSET DIM. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.
WHEN MULTIPLE SIMILAR ITEMS HAVING THE SAME TYP MTG HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO PLANE CHANGE USING TYP OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE PLANE CHANGE AS ILLUSTRATED BY THIS DIAGRAM.



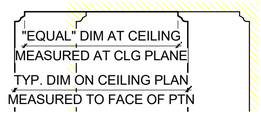
FOR PURPOSES OF THESE RULES, ITEMS SHOWN APPROX LOCATED WITHIN 4 FEET OF PLANE CHANGE ARE CONSIDERED TO BE ADJACENT TO CHANGE IN PLANE.

RULE 8

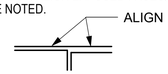
WHEN NOT DIMENSIONED AND LOCATED ADJACENT TO CHANGE IN WALL DIRECTION

ARCHITECTURAL DIMENSIONING CONVENTIONS

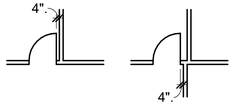
1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE THE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ONT HE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS AND SPECIFICATIONS. SEE THE NOTES BELOW AND "SYMBOLS AND ABBREVIATIONS" SHEET FOR DIMENSIONING, GRAPHIC AND OTHER TYPICAL CONVENTIONS USED ON THIS PROJECT.
3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:
   A. GENERALLY, DIMENSIONS ARE MEASURED TO:
   - STRUCTURAL OR DIMENSIONAL GRID LINES.
   - CENTERLINE OF STUD (EXCLUSIVE OF GWB, AND ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION TYPES" SCHEDULE TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
   - FACE OF CONCRETE OR MASONRY WALL (EXCLUSIVE OF ANY FURRING OR APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT WALLS WITH CONCRETE OR MASONRY COMPONENTS. REFER TO STRUCTURAL DRAWINGS AND "PARTITION TYPES" SCHEDULE TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
   - FACE OF APPLIED FINISH IF NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION. SEE NOTE 'B' BELOW.
   - OUTSIDE EDGE OF HOLLOW METAL DOOR AND WINDOW FRAMES. REFER TO THE "DOOR SCHEDULE" AND "FRAME ELEVATIONS" FOR ADDITIONAL DIMENSIONAL INFORMATION.
   - INSIDE EDGE OF FINISHED WALL OPENING AT OTHER DOORS, WINDOWS AND CURTAIN WALLS. REFER TO THE "DOOR SCHEDULE" AND "FRAME ELEVATIONS" FOR ADDITIONAL DIMENSIONAL INFORMATION.
   - DIMENSION OR WORK POINTS AS INDICATED ON RELATED ARCH DETAIL, PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.
   B. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
   - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINT OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. IN THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
   - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
   C. WHERE "EQUAL" DIMENSIONS ARE USED:
   - IN CASEWORK AND OTHER SUCH ELEMENTS, "EQUAL" DIMENSIONS ARE NOT INTENDED TO REQUIRE CUSTOM COMPONENTS. SUCH "EQUAL" ELEMENTS SHALL BE THE SAME SIZE, AT THE STANDARD SIZE INCREMENT THAT MOST NEARLY EQUALS THE DESIGNED OVERALL DIMENSION. IN THESE CONDITIONS, EQUAL SIZE FILLER PANELS ARE INTENDED AND REQUIRED AT EACH END OF THE RUN.
   D. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
   - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH, MEASURED AT THE PLANE OF THE CEILING.
   - CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES (THE THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR BY THE DIMENSIONS SHOWN ON THE FLOOR PLANS, EXCEPT AS INDICATED BY "FACE OF FINISH" OR "CLEAR"), THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT THE PLANE OF THE CEILING.



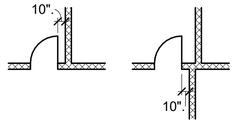
4. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.



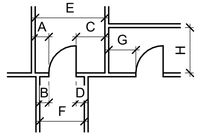
5. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL, OR WALLS, PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:
   - AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



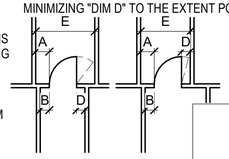
   - AT DOORS OCCURRING IN WALLS OF CONCRETE OR CONCRETE MASONRY CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL, AND EITHER "DIM E" OR "DIM F" IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
   - DIMENSION A = 18 INCHES MIN
   - DIMENSION B = 12 INCHES MIN
   - DIMENSIONS C = DOOR WIDTH + 2 INCHES MINIMUM
   - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS
   - DIMENSIONS E AND F = AS SHOWN ON PLANS
   - DIMENSION G = 36 INCHES MIN
   - DIMENSION H = 60 INCHES MIN
   - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C", OR "DIM B" EQUALS "DIM D".



   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE 4C ABOVE FOR "DIM A", "DIM B", AND "DIM D" ARE MET, MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE.



STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

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OKLAHOMA CITY, OK 73112
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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:36:30 PM

DESIGNED BY: B. BOURN
DRAWN BY: B. BOURN
CHECKED BY: B. BOURN
CHECKED BY: E. HUNTER
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

GENERAL CONVENTIONS

SHEET ID
G-004

PROJECT DATA AND CODE INFORMATION

PROJECT DATA

THIS PROJECT CONSISTS OF THE REPLACEMENT OF TWO EXISTING ROLLING SECTIONAL HANGAR DOORS WITH NEW 120-FOOT-WIDE VERTICAL LIFT FABRIC DOORS. THE HANGAR WAS ORIGINALLY DESIGNED FOR HOUSING UNMANNED AERIAL SYSTEMS AND WILL BE RENOVATED WITH LARGER HANGAR BAY DOORS TO ACCOMMODATE THE ME-11B AIRCRAFT. ALL AREAS OUTSIDE OF HANGAR BAYS ARE OUT OF SCOPE.

PROJECT DATA	
PROJECT NAME	B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
PROJECT ADDRESS	FORT HOOD, TX
OWNER	US ARMY CORPS OF ENGINEERS

APPLICABLE CODES	
UFC 1-200-01, CHANGE 4	DOD BUILDING CODE
UFC 3-600-01, CHANGE 6	FIRE PROTECTION ENGINEERING FOR FACILITIES
UFC 4-010-01, CHANGE 3	DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS
UFC 4-021-01, DATED 04/09/2008	DESIGN AND O&M: MASS NOTIFICATION SYSTEMS
UFC 4-211-01, CHANGE 3	AIRCRAFT MAINTENANCE HANGARS
2024 EDITION NFPA 1	FIRE CODE
2024 EDITION NFPA 101	LIFE SAFETY CODE
2024 EDITION NFPA 220	STANDARD ON TYPES OF BUILDING CONSTRUCTION
2022 EDITION NFPA 409	STANDARD ON AIRCRAFT HANGARS
2025 EDITION NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
2025 EDITION NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE
2024 EDITION IBC	INTERNATIONAL BUILDING CODE
2024 EDITION IEBC	INTERNATIONAL EXISTING BUILDING CODE

LIFE SAFETY INFORMATION		REFERENCE
USE OR OCCUPANCY CLASSIFICATION		UFC 3-600-01 TABLE 10-1
OCCUPANCY (OCCUPANT LOAD)	AIRCRAFT HANGAR, AIRCRAFT STORAGE AND SERVICING AREAS	NFPA 101 CHAPTER 7
OCCUPANCY (MEANS OF EGRESS)	GENERAL INDUSTRIAL	IBC SECTION 311.2
OCCUPANCY (CONSTRUCTION TYPE)	S-1 STORAGE	
TYPE OF CONSTRUCTION		
CONSTRUCTION TYPE	IIB (SPRINKLERED, SINGLE-STORY)	2024 IBC, SECTION 602
	II (000)	NFPA 220 TABLE 4.1.1 AS REFERENCED BY NFPA 101 SECTION 8.2.1.2

FIRE PROTECTION REQUIREMENTS	REQUIRED	PROVIDED	
BEARING WALLS: INT./EXT.	0 HR. / 0 HR.	0 HR. / 0 HR.	2024 IBC, SECTION 602
NONBEARING WALLS: INT./EXT.	0 HR. / 0 HR.	0 HR. / 0 HR.	2024 IBC, SECTION 602
ROOF / CEILING	0 HR. / 0 HR.	0 HR. / 1 HR.	2024 IBC, SECTION 602
FLOOR / CEILING	0 HR. / 0 HR.	0 HR. / 0 HR.	2024 IBC, SECTION 602
HANGAR SEPARATIONS	1 HR.	1 HR. & 0 HR.	UFC 4-211-01 section 3-3.1.3

DESIGN LIMITATIONS	MAX. ALLOWED	PROVIDED	
HEIGHT	75'-0"	71'-0"	2024 IBC, TABLE 504.3
AREA	UNLIMITED	121,200 SQ. FT.	2024 IBC, SECTION 507.4
STORIES	1	1	2024 IBC, SECTION 507.4

MEANS OF EGRESS	MAX. ALLOWED		PROVIDED		
	HANGAR BAY		HANGAR BAY		
TRAVEL DISTANCE TO EXIT	250'-0"		224'-0"		NFPA 101 SECTION 40.2.6
OCCUPANT LOAD	184 PERSONS				UFC 3-600-01 TABLE 10-1
TRAVEL DISTANCE TO HANGAR EXITS	150'-0"				NFPA 101 SECTION 40.6.2.2

EGRESS WIDTH PER OCCUPANT	MIN. ALLOWED		PROVIDED		
	HIGH-HAZARD		HIGH-HAZARD		
STAIRS	N/A		N/A		NFPA 101 TABLE 7.3.3.1
DOORS	32"		36" (33" CLEAR)		NFPA 101 SECTION 7.3.4.1(2)

COLORADO LICENSED
64076
JAMES WHITCOMB
James Whitcomb
05/28/2026
PROFESSIONAL ENGINEER

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MARK	DESCRIPTION	DATE

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Plot Date: 5/26/2026 8:35:29 AM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. WHITCOMB
DRAWN BY: N. CHAPA
CHECKED BY: P. TUNES
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

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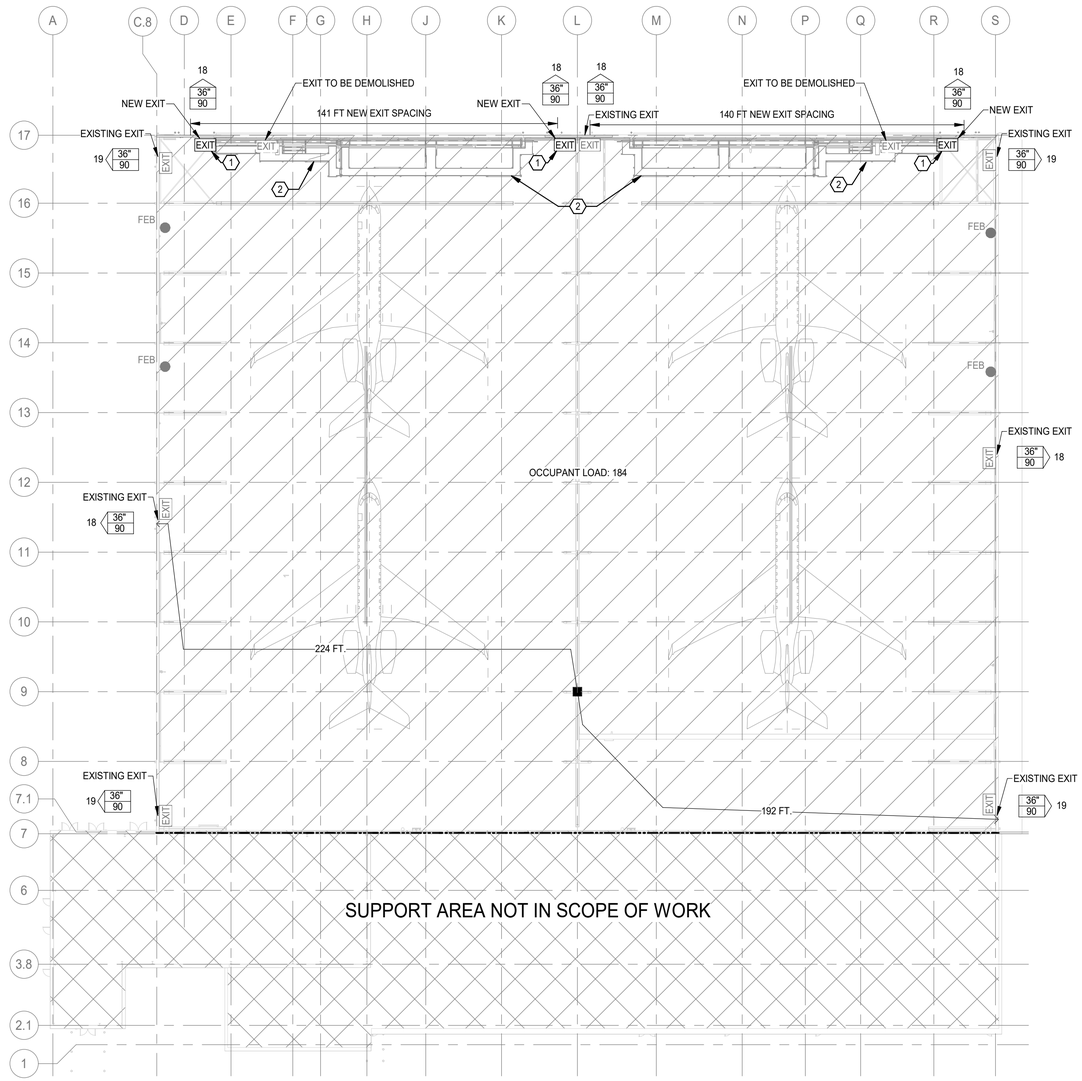
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

LIFE SAFETY CODE COMPLIANCE PLAN

SHEET ID

LP001



1 LIFE SAFETY FLOOR PLAN - OVERALL
1" = 30'-0"

EGRESS LEGEND

- START OF COMMON PATH AND TRAVEL DISTANCE
- END OF COMMON PATH
- TRAVEL DISTANCE
- DEAD END PATH
- PATH OF EXIT
- MAX EXPECTED OCCUPANTS AT EXIT BASED ON OCCUPANT LOAD FACTOR ACTUAL WIDTH OF EXIT (X / XX" / XXX)
- MAX ALLOWABLE OCCUPANTS AT EXIT BASED ON EXIT WIDTH

EGRESS DATA

OCCUPANCY EXIT ROUTE TYPE	MAXIMUM ALLOWABLE
MAXIMUM TRAVEL DISTANCE TO EXIT (NFPA 101 SECTION 40.2.6)	250'-0"
COMMON PATH (NFPA 101 SECTION 40.2.5)	100'-0"

SYMBOLS LEGEND

- FEC — FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET
- FEB — WALL BRACKET - MOUNTED FIRE EXTINGUISHER
- WALL MOUNTED EMERGENCY LIGHT WITH BATTERY PACK
- EXIT LIGHT FIXTURE DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)
- WALL MOUNTED EMERGENCY LIGHT WITH BATTERY PACK
- EXISTING 1 HOUR FIRE BARRIER

REFER TO ELECTRICAL SHEETS FOR EMERGENCY LIGHT AND EXIT LIGHT SCHEDULES AND DETAILS.

REFER TO ARCHITECTURAL SHEETS FOR FIRE EXTINGUISHER CABINET SCHEDULES AND DETAILS.

OCCUPANT LOAD

HATCH PATTERN	OCCUPANCY FUNCTION	AREA (SF) APPROXIMATE	CODE OCCUPANT LOAD FACTOR (SF/PERSON)	OCCUPANT LOAD
	NOT IN SCOPE OF WORK			
	AIRCRAFT HANGAR, AIRCRAFT STORAGE AND SERVICING AREAS (UFC 3-600-01 TABLE 10-1)	92,000	500 GROSS	184

NOTE: ALL EXISTING AREAS OUTSIDE OF THE HANGAR BAYS ARE OUT OF SCOPE OF WORK AND ARE NOT INCLUDED IN THE OCCUPANT LOAD FACTORS FOR THE HANGAR BAY.

GENERAL SHEET NOTES

A. MEANS OF EGRESS TRAVEL DISTANCE REQUIREMENTS ARE BASED ON NFPA 101 INDUSTRIAL OCCUPANCY AS DIRECTED BY UFC 4-211-01 SECTION 3-3.1.9 FOR ARMY BASES.

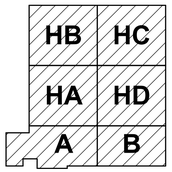
B. OCCUPANT LOADS ARE BASED ON UFC 3-600-01 TABLE 10-1 FOR AIRCRAFT HANGARS - AIRCRAFT STORAGE AND SERVICING AREAS.

C. EXITS REQUIRED AT MAXIMUM OF 150 FT INTERVALS IN EXTERIOR HANGAR WALLS IN ACCORDANCE WITH NFPA 101 SECTION 10.6.2.2.

XX SHEET KEYNOTES

1. REFER TO ELECTRICAL SHEETS FOR EXIT SIGNS.
2. A MEANS OF EGRESS PATH IS NOT REQUIRED FROM THE CATWALKS PER NFPA 101 SECTION 7.14.3, AS THEY ARE CONSIDERED NORMALLY UNOCCUPIED BUILDING SERVICE EQUIPMENT SUPPORT AREAS PER NFPA 101 SECTION 7.14. REFER TO RFI-016 FOR INFORMATION REGARDING THE OCCUPANCY OF THE CATWALK SYSTEMS.

KEY PLAN



N

0 15' - 0" 30' - 0" 60' - 0"
SCALE: 0' - 1" = 30' - 0"

COLORADO LICENSED PROFESSIONAL ENGINEER
JAMES WHITCOMB
64076
James Whitcomb
05/28/2026

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MARK	DESCRIPTION	DATE

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ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
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DESIGNED BY: J. WHITCOMB
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SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
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GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

LIFE SAFETY FLOOR PLAN - OVERALL

SHEET ID
LP101

GENERAL NOTES

1. ALL REFERENCES CONTAINED WITHIN THESE PLANS TO THE ENGINEER ARE HEREBY A REFERENCE TO OLSSON.
2. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY NECESSARY DIG PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "811", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING EXCAVATION ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
3. UTILITIES AS SHOWN WERE OBTAINED FROM INFORMATION INDICATED ON THE SURVEY OR BY FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE GOVERNMENT IMMEDIATELY UPON DISCOVERY OF A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS.
4. CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE GOVERNMENT.
5. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
6. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE GOVERNMENT.
7. ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS TO COMPLETE CONSTRUCTION AS SHOWN ON PLANS.
8. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, RUNWAY, CURB AND GUTTER, SIDEWALK, DRIVEWAYS OR STRUCTURE UNLESS SHOWN TO BE REMOVED. DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE GOVERNMENT.
9. ALL TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. THE CONTRACTOR IS RESPONSIBLE FOR ATTENDING TO AND CORRECTING UNSUITABLE SOIL CONDITIONS RELATED TO PLOW ZONES, WET SOILS AND OTHER CONDITIONS. THE UNSUITABLE CONDITIONS MUST BE CORRECTED PER THE GEOTECHNICAL ENGINEER'S REPORT, WHERE REQUIRED, TO MEET PROJECT NEEDS.
11. CONTRACTOR SHALL BE PROHIBITED FROM DISRUPTING UTILITY SERVICES TO THE EXISTING BUILDING.
12. CONTRACTOR SHALL MAINTAIN SAFETY PRACTICES THAT CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND USACE EM385-1-1.

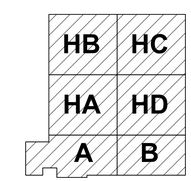
POLLUTION PREVENTION NOTES

1. CONTAINERS MUST BE PROVIDED FOR COLLECTION OF WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, AND OTHER MATERIALS GENERATED ON-SITE. CONTRACTOR MUST CONDUCT THREE (3) FOREIGN OBJECT DEBRIS CHECKS DAILY OF THE CONSTRUCTION SITE.
2. WASTE MATERIALS MUST NOT BE BURIED ON-SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF PROPERLY PER LOCAL, STATE AND FEDERAL REGULATIONS.
3. THE CONTRACTOR MUST KEEP ALL POLLUTANTS, INCLUDING BUT NOT LIMITED TO SEDIMENT, CONSTRUCTION DEBRIS, CONSTRUCTION RELATED CHEMICALS, UNTREATED DEWATERING DISCHARGES, AND POTENTIALLY HAZARDOUS MATERIALS FROM ENTERING THE STORM SEWER SYSTEM OR WATER COURSES.
4. THE DISCHARGE OF CONCRETE WASHWATERS TO THE STORMWATER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED OF AT AN APPROPRIATE LOCATION. THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS TO BE RESTRICTED TO APPROVED LOCATIONS. IF CONCRETE WASHWATERS ARE TO BE GENERATED ONSITE, THE CONTRACTOR SHALL CONSTRUCT, UTILIZE AND MAINTAIN A CONCRETE TRUCK WASH OUT BASIN ON-SITE.
5. THE CONTRACTOR SHALL STORE FUEL AND OIL AS FAR FROM ANY STORM SEWER, WETLAND OR SURFACE WATER AS PRACTICABLE (UNLESS A SPECIFIED DISTANCE IS DESIGNATED BY AUTHORITY HAVING JURISDICTION). EQUIPMENT FUELING AND MAINTENANCE SHALL BE PERFORMED ONLY IN AN AREA DESIGNATED FOR THAT PURPOSE. BEST MANAGEMENT PRACTICES (BMPS) SUCH AS CONTAINMENT BERMS AND DRIP PANS SHALL BE IN PLACE AT THE DESIGNATED AREA TO MINIMIZE THE SPILLING OR LEAKING OF HAZARDOUS MATERIALS.
6. ALL PAINT, SOLVENTS, PETROLEUM PRODUCTS, PETROLEUM WASTE PRODUCTS, AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SHALL BE STORED ACCORDING TO BMPS. THE MATERIALS EXPOSED TO PRECIPITATION SHALL BE STORED IN WATERTIGHT, STRUCTURALLY SOUND, CLOSED CONTAINERS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO SOIL, THE SOIL SHALL BE DUG UP AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S REQUIREMENTS. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR PRODUCT DESIGNED FOR THAT PURPOSE AND DISPOSED OF AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CONCRETE CURING COMPOUNDS REQUIRE SPECIAL HANDLING. THESE MATERIALS WILL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S SPECIFIC REGULATIONS.
7. SPILLS INCLUDING, BUT NOT LIMITED TO, PETROLEUM PRODUCTS, SOLVENTS AND CEMENT SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. FEDERAL LAW REQUIRES THE RESPONSIBLE PARTY TO REPORT ANY RELEASE OF OIL IF IT REACHES OR THREATENS A STORM SYSTEM, LAKE, CREEK, STREAM, RIVER, GROUNDWATER, WETLAND OR AN AREA THAT DRAINS INTO ONE OF THESE ENTITIES (E.G. ROADSIDE DITCH).
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT TEMPORARY SANITARY WASTE FACILITIES TO SERVE THE NUMBER OF WORKERS ON THE SITE. THE FACILITIES SHALL BE PLACED, AND SECURED TO PREVENT TIPPING. FACILITIES SHALL NOT BE PLACED ON ROADS OR ON TOP OF STORMWATER INLETS. FACILITIES SHALL BE MAINTAINED PER MANUFACTURER'S SPECIFICATIONS.
9. CONTRACTOR SHALL RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT AN OFF-SITE FACILITY. CONTRACTOR TO CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF-SITE.
10. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.
11. CONTRACTOR SHALL PROTECT ANY STORM INLETS FROM SEDIMENT THAT TAKE STORM WATER FROM THE AREA OF CONSTRUCTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SURROUNDING STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL/MUD AND DEBRIS DURING ALL PHASES OF CONSTRUCTION.
13. CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITEWORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE GOVERNMENT.
14. CONTRACTOR SHALL COORDINATE WITH ADJACENT CONTRACTORS FOR RAMP CLOSURES.

ACCESS AND STAGING

1. ACCESS AND HAUL ROUTES FOR ALL CONTRACTOR PERSONNEL, VEHICLES, AND EQUIPMENT ARE SUBJECT TO THE APPROVAL OF THE GOVERNMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMMUNICATE OFF-SITE HAUL ROUTES WITH THE APPROPRIATE AUTHORITY WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ACCESS ROUTES AND HAUL ROUTES ARE SUBJECT TO CHANGE AT THE DIRECTION OF THE GOVERNMENT AND MAY CHANGE BASED ON OPERATIONAL REQUIREMENTS OF THE PROJECT SITE.
2. CONTRACTOR SHALL COMMUNICATE ACTIVITIES AND MAINTAIN ALL ACCESS AND HAUL ROUTES IN A MANNER THAT ALLOWS UNOBSTRUCTED EMERGENCY ACCESS TO ALL PROJECT AREAS AND EXISTING ROADWAYS AT ALL TIMES WITHOUT DELAY TO EMERGENCY AND SECURITY VEHICLE RESPONSE TIME.
3. IF ANY EMERGENCY ROUTES REQUIRE CLOSURE DUE TO CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL NOTIFY THE BASE, POLICE, LOCAL FIRE AUTHORITY AND ALL OTHER EMERGENCY SERVICES OF CLOSURE.
4. CONTRACTOR SHALL MAINTAIN ACCESS AND HAUL ROUTES TO BE FREE FROM DEBRIS CAUSED FROM CONSTRUCTION ACTIVITIES ON A DAILY BASIS.
5. CONTRACTOR SHALL RESTRICT ALL OPERATIONS TO AREAS WITHIN THE CONSTRUCTION LIMITS UNLESS COMMUNICATED OTHERWISE WITH THE GOVERNMENT.
6. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A STAGING AND STOCKPILE AREA FOR MATERIALS AND EQUIPMENT. LOCATION OF CONTRACTOR'S STAGING IS SUBJECT TO THE APPROVAL OF THE GOVERNMENT. CONTRACTOR MAY SUBMIT ALTERNATIVES TO THE STAGING AREA LOCATIONS AS SHOWN. CONTRACTOR'S STAGING AREA IS SUBJECT TO CHANGE AT THE DIRECTION OF THE GOVERNMENT AND MAY CHANGE BASED ON OPERATIONAL REQUIREMENTS OF THE PROJECT SITE.
7. WHEN NOT ENGAGED IN CONSTRUCTION ACTIVITIES, CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL BE PARKED IN THE STAGING AREA.
8. CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF 48 HOURS TO THE GOVERNMENT REGARDING CONSTRUCTION DELIVERIES PRIOR TO THOSE DELIVERIES.
9. ALL CONTRACTOR VEHICLES AND PERSONNEL SHALL BE RESPONSIBLE FOR COMMUNICATING AND COMPLYING WITH FORT HOOD BASE SECURITY POLICY.

KEY PLAN



STATE OF TEXAS
DERICK M. HOLMES
143621
LICENSED PROFESSIONAL ENGINEER
05/28/2026

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: D. HOLMES
DRAWN BY: C. FERGUSON
CHECKED BY: A. SLYTER
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRANDE AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273
GENERAL CIVIL NOTES

SHEET ID
GC001

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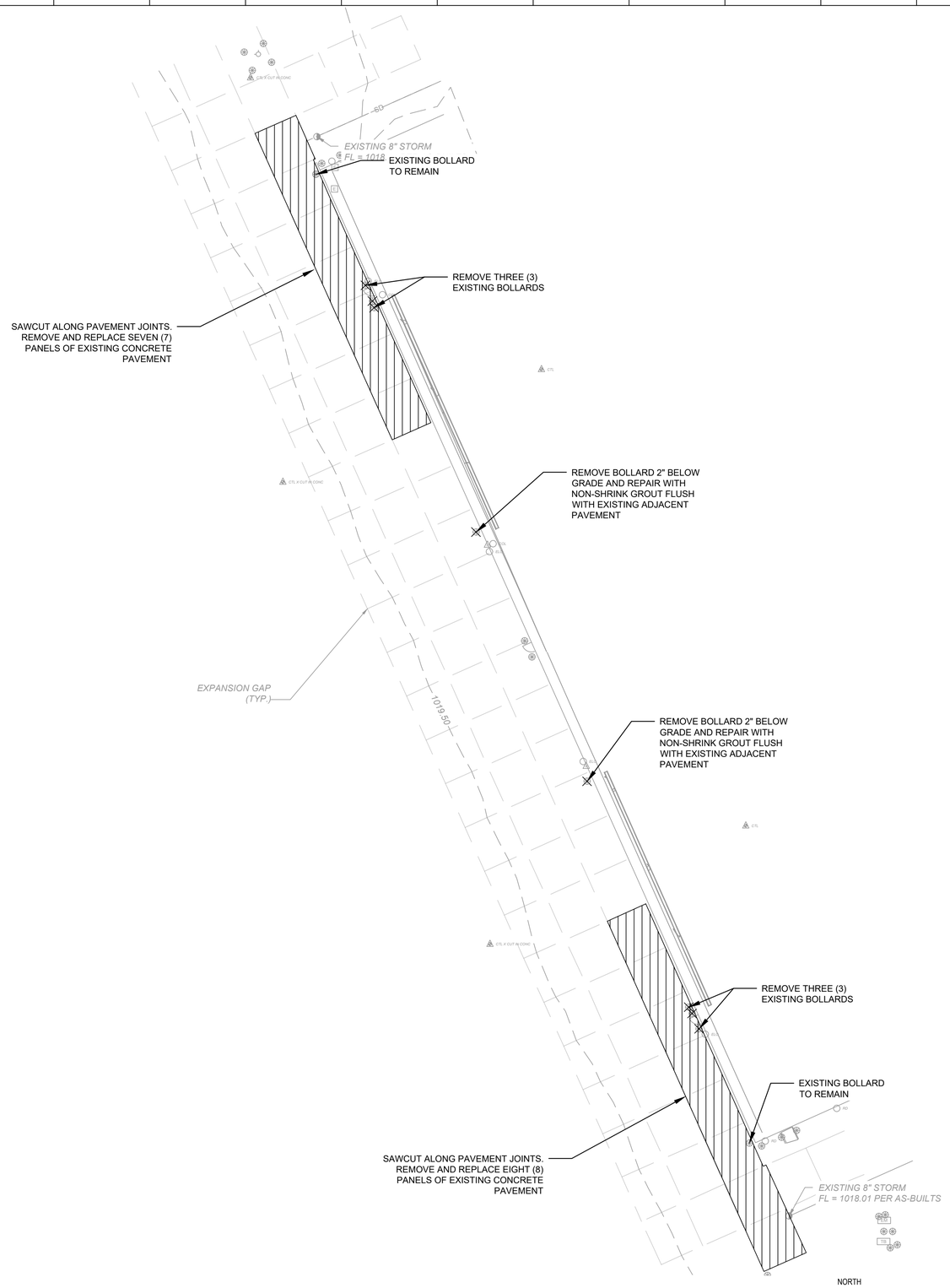

A1 DEMOLITION PLAN

1" = 20' HORIZONTAL

NORTH

0 10' 20' 40' 60' 80'

1" = 20'-0" GRAPHIC SCALE

GENERAL SHEET NOTES

1. REFER TO GC001 FOR GENERAL NOTES APPLICABLE TO THIS DRAWING.
2. UTILITY DEMOLITION MUST BE COORDINATED WITH THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK.

LEGEND

SITE FEATURE TO BE REMOVED

CONCRETE PAVEMENT TO BE REMOVED

KEY PLAN

HB	HC
HA	HD
A	B

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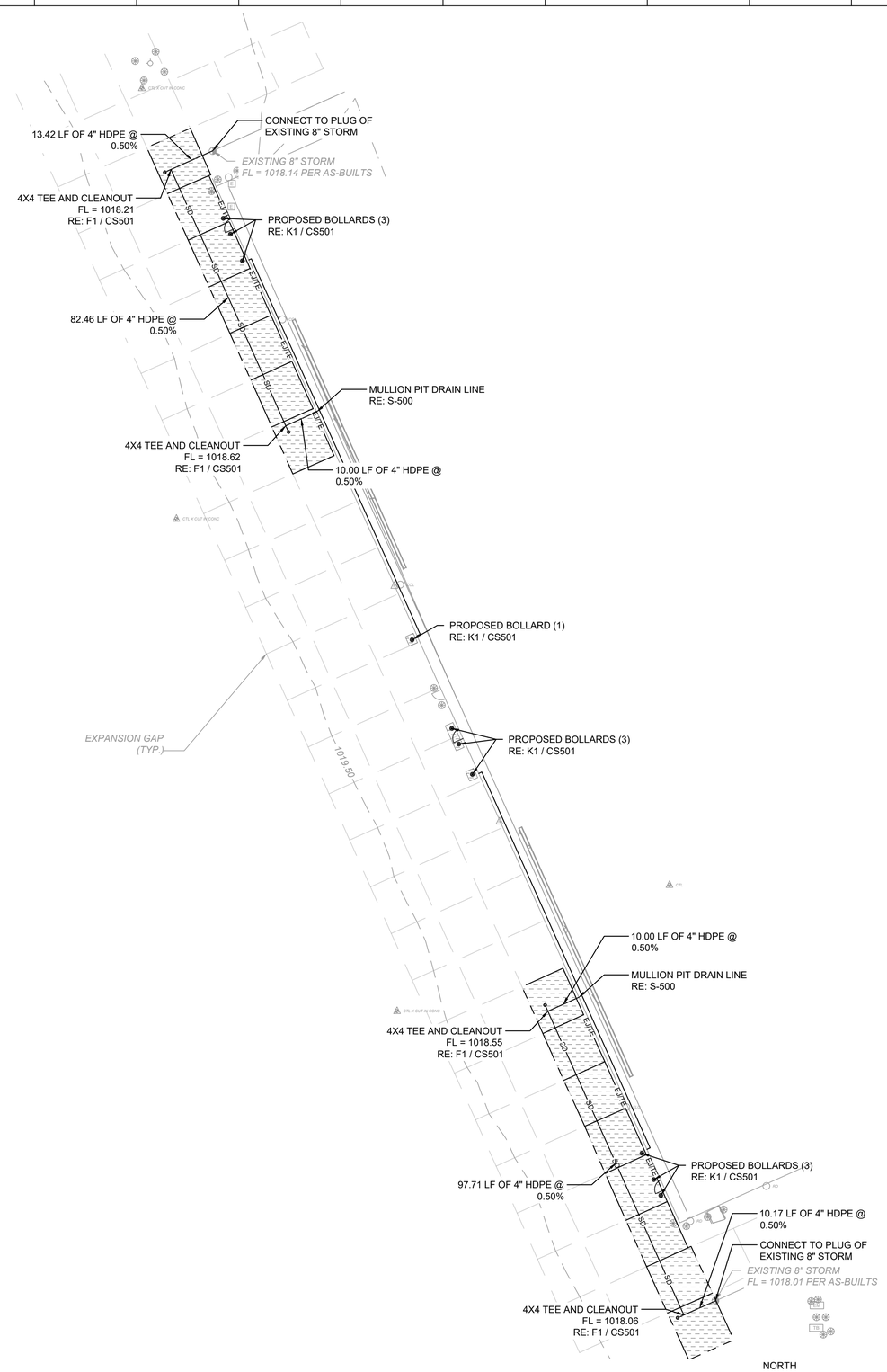
DEMOLITION PLAN

SHEET ID

CD101

Plot Date: 2/17/2016 12:09:44 PM File Path:



A1 SITE PLAN

1" = 20' HORIZONTAL

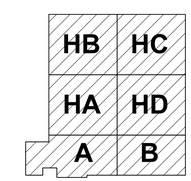
GENERAL SHEET NOTES

1. REFER TO GC001 FOR GENERAL NOTES APPLICABLE TO THIS DRAWING.

LEGEND

SD	STORMWATER LINE
EJ/TE	THICKENED EDGE EXPANSION JOINT RE: B14 AND F7 / CS501
	CONTRACTION JOINT RE: K14 / CS501
	DOWELED CONSTRUCTION JOINT RE: B7 AND B14 / CS501
	10.50" CONCRETE PAVEMENT RE: K7 / CS501

KEY PLAN



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SITE PLAN

SHEET ID

CS101

Plot Date: 2/17/2016 12:09:44 PM File Path:

A1 PROJECT LOCATION AND STAGING AREA MAP

1" = 500' HORIZONTAL

NORTH

0 250' 500' 1000' 1500' 2000'

1" = 500'-0" GRAPHIC SCALE

GENERAL SHEET NOTES

1. REFER TO GC001 FOR GENERAL NOTES APPLICABLE TO THIS DRAWING.
2. CONTRACTOR TO REFER TO DIVISION 00 AND 01 OF THE SPECIFICATIONS FOR ADDITIONAL ACCESS REQUIREMENTS.

KEY PLAN

HB	HC
HA	HD
A	B

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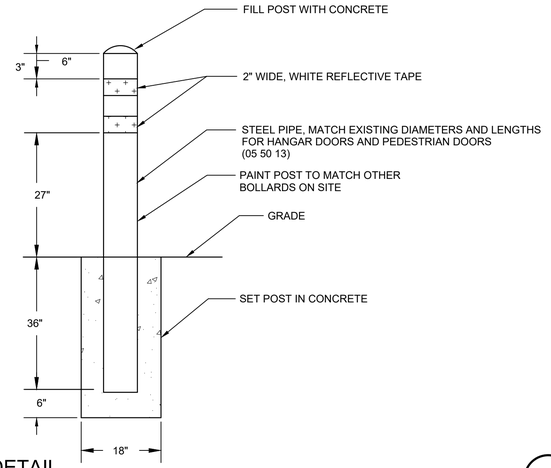
PROJECT LOCATION AND STAGING AREA MAP

SHEET ID

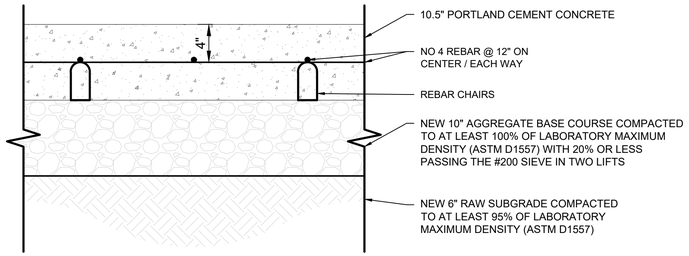
CS102

Plot Date: 2/17/2016 12:09:44 PM File Path:



K1 BOLLARD DETAIL

SCALE: NTS

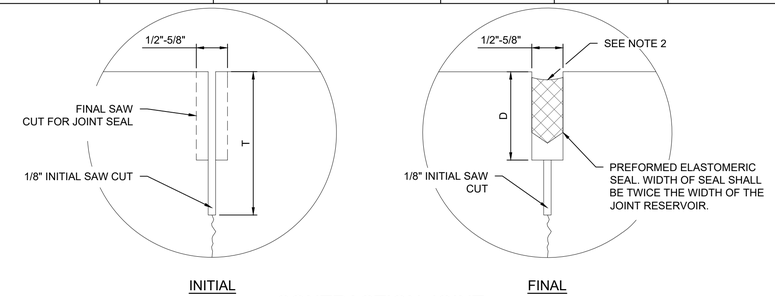


NOTES:

1. CONTRACTOR SHALL USE FLOW FILL MATERIAL FOR BACKFILL (BEDDING TO BOTTOM OF PROPOSED CONCRETE) OF 4" STORMWATER LINE WITHIN NEW PAVEMENT PANELS.

K7 10.50" CONCRETE PAVEMENT

SCALE: NTS



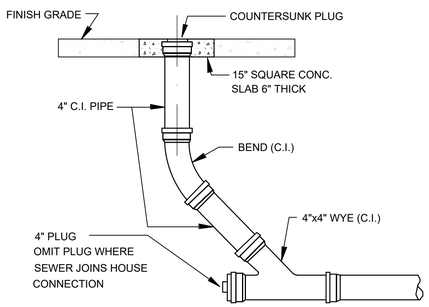
CONTRACTION JOINT

NOTES:

1. D = DEPTH AS RECOMMENDED BY MANUFACTURER OF JOINT SEAL.
   T = DEPTH OF INITIAL SAWCUT TYPE JOINT FORMER (CONTRACTION JOINT)
   A. 1/4 SLAB THICKNESS +/- 1/2" FOR PAVEMENT LESS THAN 12 INCHES
   B. 3 INCHES FOR PAVEMENTS 12-18 INCHES
   C. 1/6 SLAB THICKNESS FOR PAVEMENTS MORE THAN 18 INCHES
2. TOP OF SEALANT SHALL BE 1/8 INCH TO 1/4 INCH BELOW PAVEMENT SURFACE. IN AREAS TO BE GROOVED, THE JOINT SEAL SHALL BE RECESSED BELOW THE DEPTH OF THE GROOVES.
3. JOINTS TO BE IN CONFORMANCE WITH SPECIFICATION 32 13 73.19.
4. COMPRESSION SEALS MUST BE IN COMPRESSION AT ALL TIMES.

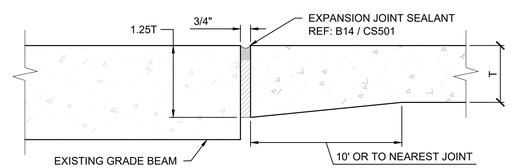
K14 PREFORMED COMPRESSION JOINT SEALANTS

SCALE: NTS



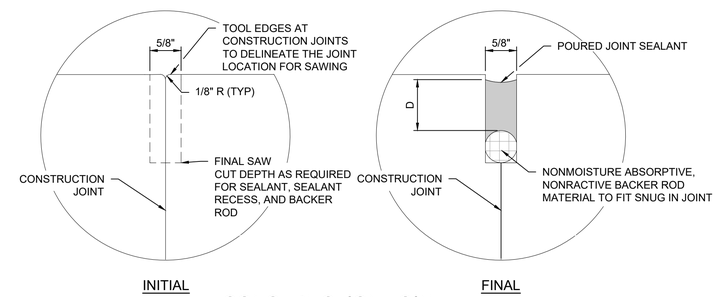
F1 ONE-WAY CLEANOUT

SCALE: NTS

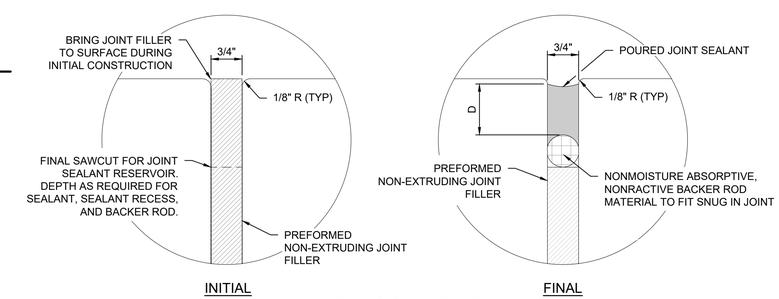


F7 THICKENED EDGE EXPANSION JOINT

SCALE: NTS



CONSTRUCTION JOINT



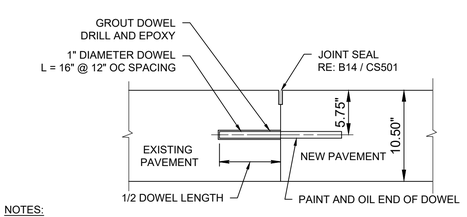
EXPANSION JOINT

NOTES:

1. D = DEPTH OF SEALANT (1.0 TO 1.5 x WIDTH OF JOINT) OR AS RECOMMENDED BY MANUFACTURER.
2. TOP OF SEALANT SHALL BE 1/8 INCH TO 1/4 INCH BELOW PAVEMENT SURFACE OR 1/8 INCH BELOW BOTTOM EDGE OF RADIUS. IN AREAS TO BE GROOVED, THE JOINT SEAL SHALL BE RECESSED BELOW THE DEPTH OF THE GROOVES.
3. JOINTS TO BE IN CONFORMANCE WITH SPECIFICATION 32 01 19.61.
4. A HEAT-RESISTANT BACKER ROD MUST BE USED WITH ASTM D6690 (HOT-POURED) SEALANT.
5. DIAMETER OF BACKER ROD MATERIAL = WIDTH OF SEALANT + 1/8".

B14 POURED JOINT SEALANTS

SCALE: NTS



NOTES:

1. HOLES APPROXIMATELY 1/8 INCH GREATER IN DIAMETER THAN THE DOWELS SHALL BE DRILLED IN THE EXISTING CONCRETE AND THE DOWELS SHALL BE BONDED IN THE DRILLED HOLES USING AN EPOXY RESIN GROUT.
2. STOP PROPOSED PAVEMENT REINFORCEMENT 3" FROM THE CONSTRUCTION JOINT. REBAR SHALL BE PLACED ABOVE DOWEL.

B7 DOWELED CONSTRUCTION JOINT

SCALE: NTS

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MARK	DESCRIPTION	DATE

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CONTRACT NO.:

DESIGNED BY: D. HOLMES
DRAWN BY: C. FERGUSON
CHECKED BY: A. SLYTER
SUBMITTED BY: CITRINE-OLSSON JV
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W912GZ25F0273

SITE DETAILS

SHEET ID
CS501

File Path:
Plot Date: 2/17/2016 12:09:44 PM

GENERAL NOTES

NO.	GENERAL NOTES DESCRIPTION
1	THE PROJECT SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.
2	THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE CONTRACTING OFFICER OF ANY DISCEPANCIES BEFORE PROCEESING WITH ANY WORK
3	THE DRAWINGS AND SPECFICATIONS REPRESENT THE COMPLETED STRUCTURE. THEY DO NOT INDICATED THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING, ETC. OBSERVATION BY THE ARCHITECT, ENGINEER OR CONTRACTING OFFICER DOES NOT INCLUDE REVIEW OF THESE MEASURES.
4	NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5	ALL WORK NOT DETAILED OR NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTHER SIMILAR WORK SHOWN ON THE DRAWINGS AND TYPICAL DETAILS. DIMENSIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
6	NO PIPES OR DUCTS SHALL BE PLACED IN OR PENETRATE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DESIGNED AND DETAILED.
7	REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: A) SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED. B) SIZE AND LOCATION OF INTERIOR AND EXTERIOR NONBEARING PARTITIONS. C) SIZE AND LOCATION OF CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, RAMPS, CHAMFERS GROOVES, INSERTS, ETC. D) SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS IF NOT DIMENSIONED ON THESE DRAWINGS. E) FLOOR AND ROOF FINISHES. F) STAIR FRAMING AND DETAILS EXCEPT AS SHOWN HEREIN. G) DIMENSIONS NOT SHOWN ON STRUCT DWGS.
8	REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: A) PIPE RUNS, SLEEVES, HANGERS, EQUIPMENT, SLAB OPENINGS, NOT SHOWN OR NOTED HEREIN. B) ELECTRICAL CONDUIT, BOXES, OUTLETS. C) CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES. D) SIZE AND LOCATION OF MACHINE AND EQUIPMENT BASES. CONTRACTOR'S ENGINEER SHALL DESIGN SEISMIC ANCHORAGE FOR MECHANICAL AND ELECTRICAL EQUIPMENT PER SPEC.
9	CONTRACTOR/JOIST MANUFACTURER TO COORDINATOR EXACT WEIGHT, WEIGHT DISTRIBUTION, SIZE AND LOCATION OF ROOF MECHANICAL UNITS/DUCTS AND VERIFY SIZE OF OPEN-WEB STEEL JOIST SHOWN ON THE DRAWINGS.
10	ASTM REFERENCES ARE FOR LATEST REVISIONS AND ISSUE, UON.
11	CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EXCAVATION FOR UNSUITABLE CONDITIONS. UNCONSOLIDATED AND UNDOCUMENTED FILLS, BURIED STRUCTURES, UTILITIES, ETC, SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY SITE CONDITIONS NOT REFLECTED ON THE DRAWINGS OR DIFFERENT FROM MAXIMUM OR MINIMUM DIMENSIONS INDICATED, INCLUDING CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, GROUND WATER PRESENT, DEEPENED FOOTINGS, UNCOVERED AND UNEXPECTED UTILITY LINES, ETC.
12	CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON STRUCTURAL FRAMES SUCH THAT THE LOADING DOES NOT EXCEED THE DESIGN LIVE LOADS. PROVIDE SHORING AND BRACING WHERE DESIGN STRENGTH HAS NOT BEEN ATTAINED OR STRUCTURE IS NOT COMPLETE.
13	THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE CAUTION IN EXCAVATING AND TRENCHING.
14	STRUCTURE DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS HEREIN.

STRUCTURAL ABBREVIATIONS

ABBREVIATION	ABBREVIATION NAME
#	NUMBER
&	AND
=	EQUAL, EQUALS
@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISEHD FLOOR
AH, AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT/FP	ANTI-TERRORISM/ FORCE PROTECTION
AWS	AMERICAN WELDING SOCIETY
BET	BETWEEN
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAIL
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
C	CHANNEL
CE	CARBON EQUIVALENT
CENT	CENTERED
CFMF	COLD-FORMED METAL FRAMING
CFS	COLD-FORMED STEEL
CIP	CAST IN PLACE
CJ	CONTROL JOINT/CEILING JOIST
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CWB	CAPILLARY WATERBARRIER
D	DEEP, DEPTH
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DL	DEADLOAD
DO	DITTO
DT	DRAG TRUSS
DWG(S)	DRAWINGS
DWL	DOWEL
EA	EACH
EF	EACHFACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EN	EDGE NAIL
EQN	EQUATION
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST OR (E)	EXISTING
EXT	EXTERNAL, EXTERIOR
FF	FAR FACE
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FJ	FLOOR JOIST
FMG	FRAMING
FN	FIELD NAIL
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FS	FAR SIDE
FT, '	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAUGE
GLB	GLUED LAMINATED BEAM
GT	GIRDER TRUSS
GUSS	GUSSET
GYP BD	GYPSUM BOARD
HD	HOLD DOWN
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATNG/ VENTILATING/ AIR CONDITIONING
I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICF	INSULATED CONCRETE FORM
ID	INSIDE DIAMETER
IN, "	INCH

STRUCTURAL ABBREVIATIONS

ABBREVIATION	ABBREVIATION NAME
INCL	INCLUDE
INFO	INFORMATION
INS	INSULATED, INSULATION
JST	JOIST
K, KIPS	THOUSAND POUNDS
L	LENGTH, ANGLE
LB	POUND
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUTSTANDING
LLV	LONG LEG VERTICAL
LOC	LOCATE, LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LW	LIGHT WEIGHT
MAS	MASONRY
MB	MACHINE BOLT
MBR	MEMBER
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFG	MANUFACTURING
MIN	MINIMUM
MO	MASONRY OPENING
MOD	MODIFY, MODIFIED
MRF	MANUFACTURER
NF	NEAR FACE
NOM	NOMINAL
NS	NEAR SIDE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND, OVERHEAD
OWSJ	OPEN WEB STEEL JOIST
P/C	PIN CONNECTED
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PFJ	PERIMETER FELT JOINT
PL	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED, POINT, PRETENSIONED
REINF	REINFORCING, REINFORCED
REQ	REQUIRED
RET	RETURN, RETAINING
REV	REVISION, REVISED
RF	ROOF
RFT	RAFTERS
RPM	REVOLUTIONS PR MINUTE
RS	ROUGH SAWN
RT	ROOF TRUSS
S	SECTION MODULUS
SC	SLIP CRITICAL
SCBRW	SEGMENTAL CONCRETE BLOCK RETAINING WALL
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SEIS	SEISMIC
SEP	SEPARATION
SHT	SHEET
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLO	SHORT LEG OUTSTANDING
SMS	SHEET METAL SCREW
SPEC(S)	SPECIFICATION(S)
SPRT	SUPPORT
SQ	SQUARE
SS	STAINLESS STEEL
ST	SNUG TIGHT
STD	STANDARD
STIF/STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TGB	TOP OF GRADE BEAM
THK	THICK, THICKNESS
TL	TOTAL LOAD
TN	TOE NAIL
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UFC	UNITED FACILITES CRITERIA
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VERT	VERTICAL
W	WIDTH, WEST, WIDE FLANGE
w/	WITH
WF	WIDE FLANGE
WPT	WORKING POINT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
x	BY, TIMES

STATE OF TEXAS
WESTON McCANN
115262
LICENSED
PROFESSIONAL ENGINEER
5/27/2026

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MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/S_B90176 Hangar Door Expansion_D25-04414_R24.rvt

Plot Date: 5/27/2026 2:49:35 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

GENERAL STRUCTURAL NOTES, DESIGN LOADS & ABBREVIATIONS

SHEET ID
S-001

BUILDING CODE AND STANDARDS

UFC 1-200-01 DOD BUILDING CODE W/ CHANGE 4, 17 DECEMBER 2024
UFC 3-301-01 STRUCTURAL ENGINEERING WITH CHANGE 4, 3 JUNE 2025
UFC 4-010-01 DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS W/ CHANGE 3, 24 MAY 2024
IBC 2024 INTERNATIONAL BUILDING CODE WITH STANDARDS AS REFERENCED IN IBC CHAPTER 35
IEBC 2024 INTERNATIONAL EXISTING BUILDING CODE
ASCE 7-22 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES, 2022

STRUCTURAL DESIGN LOADS:

	UNIFORM (PSF)	CONCENTRATED (LB)
DEAD LOAD (IN ADDITION TO WEIGHT OF STRUCTURAL MEMBERS AND NON-LOAD-BEARING WALLS/PARTITIONS, ADD THE FOLLOWING):		
ALLOWANCE FOR MEP/FIREPROOFING/MISC:	5 PSF	
ALLOWANCE FOR ROOFING SYSTEM	3 PSF	
FLOOR LIVE & MISC LOADS		
AIRCRAFT WEIGHT	100 KIPS	
AIRCRAFT WHEEL LOAD	40 KIPS (ASSUMED MAX)	
CATWALK	40 PSF	
RAILING (LATERAL LOAD AT TOP)	50 PLF	200
ROOF LIVE LOAD	20 PSF	
SNOW DESIGN DATA		
GROUND SNOW LOAD, P_G	14 PSF	
FLAT ROOF SNOW LOAD, P_F	9.4 PSF	
MINIMUM SNOW LOAD FOR LOW-SLOPE ROOFS, P_M	14 PSF	
RAIN-ON-SNOW SURCHARGE	0.0 PSF	
SNOW EXPOSURE FACTOR, C_E	0.80	
SNOW LOAD IMPORTANCE FACTOR, I_S	1.0	
THERMAL FACTOR, C_T	1.2	

WIND DESIGN DATA

BASIC WIND SPEED, V	105 MPH
RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT, GC_{PI}	±0.18 TYPICAL ±0.55 FOR NEW VERTICAL LIFT FABRIC HANGAR DOORS

COMPONENTS AND CLADDING (ULT. PSF FOR FULLY ENCLOSED)

	10 SF	50 SF	100 SF
INTERIOR ROOF (ZONE 1)	-53.0 / +23.6	-38.6 / +16.1	-38.6 / +16.0
EDGE ROOF (ZONE 2)	-69.1 / +23.6	-53.2 / +16.1	-46.4 / +16.0
CORNER ROOF (ZONE 3)	-74.4 / +23.6	-57.2 / +16.1	-49.7 / +16.0
INTERIOR WALL (ZONE 4)	-96.1 / +23.6	-75.9 / +16.1	-67.2 / +16.0
CORNER WALL (ZONE 5)	-103.3 / +23.6	-80.1 / +16.1	-70.1 / +16.0

END ZONE DISTANCE (a) 22.6 FT

EARTHQUAKE DESIGN DATA

RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR, I_e	1.00
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS	S_S = 0.07 g; S_1 = 0.041 g
DESIGN SPECTRAL RESPONSE COEFF'S	S_{DS} = 0.065 g; S_{D1} = 0.062 g
SEISMIC DESIGN CATEGORY	A
SEISMIC FORCE-RESISTING SYSTEM	STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR	V = 0.010W
SEISMIC RESPONSE COEFFICIENT	C_S = 0.01
RESPONSE MODIFICATION COEFFICIENT	R = 3
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN DATA

ALLOWABLE CAPACITIES FOR EXISTING DRILLED PIERS	
END BEARING	30 KSF
SKIN FRICTION	1 KSF
EMBEDMENT INTO BEARING STRATA	3 FEET
TOTAL ASD CAPACITY FOR EXISTING DRILLED PIERS	
30" DIAMETER	338 KIPS
42" DIAMETER	624 KIPS

MATERIAL DATA:

CONCRETE & REINFORCING

DESIGN CONCRETE MIXES TO PROVIDE THE FOLLOWING PROPERTIES:

MIX	USE	28-DAY COMP. STRENGTH (MIN PSI)	28-DAY FLEXURAL STRENGTH (MIN PSI)	WATER/ CEMENT (MAX RATIO)	AIR CONTENT (%)
A	TRENCH FTGS AND HANGAR SLAB	4,000	650	0.45	<3

CONCRETE WEIGHT	NORMAL WEIGHT CONCRETE - TYPICAL, UON
CEMENT TYPE	ORDINARY PORTLAND CEMENT (OPC) TYPE I/II - ASTM C150 OR PORTLAND LIMESTONE CEMENT (PLC) TYPE IL - ASTM C595
AGGREGATES	REGULAR WEIGHT HARDROCK TYPE - ASTM C33
ADMIXTURES	ASTM C494
AIR-ENTRAINMENT	ASTM C260
REINFORCING STEEL	ASTM A615, GRADE 60, DEFORMED
WELDABLE REINFORCING STEEL	ASTM A706, GRADE 60, DEFORMED
DEFORMED BAR ANCHORS	ASTM 1064-18, GRADE 70, DEFORMED
WELDED WIRE REINFORCEMENT	ASTM A1064, PROVIDE SHEET-TYPE; ROLL-TYPE IS NOT ACCEPTABLE
NON-SHRINK GROUT (8,000 PSI, MIN.)	ASTM C1107, FACTORY PREMIXED
PREFORMED EXPANSION JOINT (1/2", UON)	ASTM D1751

STEEL

W SHAPES, WT SHAPES	ASTM A992
PLATES, ROUND BAR	ASTM A572, GRADE 50
ANGLES	ASTM A572, GRADE 50
C AND MC SHAPES	ASTM A992
HSS SQUARE AND RECTANGULAR TUBES	ASTM A500 GRADE C, F_y = 50 ksi
HSS ROUNDS	ASTM A500, GRADE C, F_y = 46 ksi
PIPES	ASTM A53, GRADE B, F_y = 35 ksi
ANCHOR RODS	ASTM F1554, GRADE 55 WITH SUPPLEMENT S1
HIGH STRENGTH BOLTS	ASTM F3125, GRADE 325, TYPE 1, UON ASTM F3125, GRADE 490, TYPE 1
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436
DIRECT-TENSION INDICATING WASHERS	ASTM F959
HEAVY HEX NUTS	ASTM A563
STICK ELECTRODES	AWS CLASS E70XX AWS CLASS E6010 OR E6011 (GALV. SURFACES)
HEADED STUDS	ASTM A108 GRADES C1010 THRU C1020 (Fu = 55 ksi)

GENERAL NOTES

1. THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH [ARCHITECTURAL] DRAWINGS AND IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES. REFER TO OTHER DISCIPLINE DRAWINGS FOR ADDITIONAL OPENINGS, SLEEVES, UNDER-FLOOR DUCTS, FLOOR DEPRESSIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE LOCATION, SIZE, AND REINFORCEMENT OF ALL OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION.
2. OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
5. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
6. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE CONTRACTING OFFICER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MISLOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
7. NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE CONTRACTING OFFICER.
8. PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH CONCRETE STRUCTURAL MEMBERS FOR ALL TRADES.
9. EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS, AND INSERTS, SHALL BE IN PLACE BEFORE CONCRETE PLACEMENT.
10. ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM ROOFS SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY THE CONTRACTING OFFICER PRIOR TO ERECTION OF EQUIPMENT.
11. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL DRAWINGS FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
12. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION.
13. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURBS, OPENINGS, AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND, ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (ROOF, LATERAL FRAMES, ETC), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE. A DETAILED SHORING AND ERECTION PLAN WITH CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
15. THE ENGINEER HAS ASSUMED THAT THE EXISTING CONSTRUCTION WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD PRACTICES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY INCLUDING BRACING OR SHORING TO PREVENT DAMAGE AND/OR SETTLEMENT TO THE EXISTING STRUCTURE. FURTHERMORE, THEY SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE EXISTING STRUCTURE.
16. IF DURING CONSTRUCTION, MOVEMENTS OR SETTLEMENTS OF THE EXISTING STRUCTURE ARE OBSERVED, TAKE PRECAUTIONS NECESSARY TO SECURE THE SAFETY OF THE SUBJECT AND/OR ADJOINING PREMISES, AND CONTACT THE CONTRACTING OFFICER.
17. THE EXISTING INFORMATION SHOWN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED INSOFAR AS BUILDING CONSTRUCTION AND EXISTING CONDITIONS ARE CONCERNED. EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED FOR THE ASSISTANCE OF THE CONTRACTOR IN ACHIEVING THE END RESULTS. MANY OF THE DIMENSIONS AND CONDITIONS NOTED ON THE DRAWINGS ARE BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DRAWINGS AND MAY OR MAY NOT BE CORRECT. EXACT LOCATIONS, MEASUREMENTS, DISTANCES, LEVELS, ETC. WILL BE GOVERNED BY CONDITIONS AT THE JOB SITE. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING EXISTING MEMBER SIZES, DIMENSIONS, AND ELEVATIONS WHICH AFFECT WORK TO BE PERFORMED AS PART OF THIS PROJECT, PRIOR TO ANY NEW CONSTRUCTION OR MATERIAL FABRICATION. ALL FIELD VERIFIED DIMENSIONS AND DISCREPANCIES MUST BE SHOWN ON THE STRUCTURAL SHOP DRAWINGS OR ON A SEPARATE SUBMITTAL SO THAT THE CONTRACTING OFFICER CAN MAKE ANY ADJUSTMENT IN MEMBER SIZES OR DETAILS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION CHANGES WHICH ARE A RESULT OF EXISTING JOB SITE CONDITIONS, AND WHICH ARE NOT ACCURATELY DOCUMENTED FOR THE CONTRACTING OFFICER IMMEDIATELY AFTER THE CONTRACTOR'S FIELD VERIFICATION EFFORTS.

SHOP DRAWINGS

1. EACH SHOP DRAWING AND SUBMITTAL THAT HAS BEEN PREPARED BY THE GENERAL CONTRACTOR'S SUBCONTRACTOR SHALL BE REVIEWED, APPROVED, AND STAMPED BY THE SUBCONTRACTOR, PRIOR TO SUBMITTING TO THE CONTRACTING OFFICER FOR REVIEW.
2. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
3. ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE BOLDLY NOTED AND CLOUDED ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL TO BRING TO THE EOR'S ATTENTION.
4. ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.

DEFERRED SUBMITTALS

THE FOLLOWING ELEMENTS ARE DELEGATED DESIGN AND SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.

1. SHORING AND ERECTION PLAN AND CALCULATIONS.

FOUNDATIONS

1. !!STOP!! CALL BEFORE YOU DIG! THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "811" AND COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. NOTIFY THE CONTRACTING OFFICER WHENEVER CONFLICTS ARE ENCOUNTERED. THE CONTRACTOR SHALL PROTECT ANY EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING CONSTRUCTION.
2. A GEOTECHNICAL ENGINEER SHALL BE RETAINED FOR TESTING, OBSERVATIONS, AND SPECIAL INSPECTIONS DURING ALL EARTHWORK AND FOUNDATION CONSTRUCTION PHASES TO VERIFY THAT THE RECOMMENDATIONS OF THE SUBSOIL INVESTIGATION ARE BEING IMPLEMENTED. THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS AND SLAB SUBGRADE IMMEDIATELY PRIOR TO PLACEMENT OF ANY CONCRETE AND SHALL TEST ALL FILL FOR PROPER COMPACTION.
3. NONEXPANSIVE STRUCTURAL FILL MATERIALS SHALL CONSIST OF SUITABLE ON-SITE OR BORROW MATERIALS MEETING THE REQUIREMENTS OF TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR BASE COURSE, ITEM 247, TYPE A, GRADE 1 OR 2, WITH PLASTICITY INDEX OF NOT LESS THAN 4 PERCENT NOR GREATER THAN 12 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D 4318. AND SHALL BE PLACED IN CONTROLLED LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND COMPACTED TO AT LEAST 95 PERCENT OF LABORATORY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557.
4. CAPILLARY WATER BARRIER SHALL CONSIST OF CLEAN, CRUSHED, NONPOROUS ROCK, CRUSHED GRAVEL, OR UNCRUSHED GRAVEL. THE MAXIMUM PARTICLE SIZE SHALL BE 1.5 INCHES AND NO MORE THAN 2 PERCENT BY WEIGHT SHALL PASS THE 3/16-INCH SIZE (NO. 4) SIEVE.
5. GENERAL CONTRACTOR SHALL COMPACT EXPOSED FOOTING BOTTOMS WITH HAND-OPERATED, MECHANICAL COMPACTION EQUIPMENT AFTER EACH FOOTING EXCAVATIONS IS COMPLETED AND PRIOR TO PLACING STEEL OR CONCRETE.
6. SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE CONTRACTING OFFICER BEFORE CONTINUING WITH CONSTRUCTION.
7. PONDING OF WATER IN EXCAVATION IS UNACCEPTABLE AT ANY TIME. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM PONDING, TO CONTINUALLY AND EFFECTIVELY REMOVE WATER FROM THE SITE AT ALL TIMES. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
9. RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES, OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CIVIL CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE CONTRACTING OFFICER FOR REVIEW.
10. THE CONTRACTOR SHALL REVIEW ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL, AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE ACCREDITED TESTING LABORATORY AND CONTRACTING OFFICER.
11. TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE SUBGRADE, FILL, AND BACKFILL MATERIALS ARE PROPERLY COMPACTED.
    A. IN-PLACE DENSITY OF THE SUBGRADE, FILLS, AND BACKFILLS SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET PER LIFT IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922.
    B. OPTIMUM MOISTURE AND LABORATORY MAXIMUM DENSITY OF NONEXPANSIVE FILL AND BACKFILL SHALL BE PERFORMED FOR EVERY 500 CUBIC YARDS OR WHEN ANY CHANGE IN MATERIAL OCCURS.

STRUCTURAL CONCRETE

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF:
    A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
    B. ACI 302.1R "GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION"
    C. ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
    D. ACI 311.1R "MANUAL OF CONCRETE INSPECTION"
    E. ACI 315R "GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS"
    F. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
    G. ACI 347 "GUIDE TO FORMWORK FOR CONCRETE"
2. SUBMIT A CONCRETE MIX DESIGN FOR EACH CLASS OF CONCRETE FOR APPROVAL BY THE PROJECT ENGINEER. THE MIX DESIGN SHALL INCLUDE THE PROPORTIONS AND TEST RESULTS OR CERTIFICATIONS FOR ALL COMPONENTS OF THE MIX IN ACCORDANCE WITH THE LATEST ACI 301. SUBMIT DOCUMENTED RESULTS OF "FIELD TEST DATA" OR "TRIAL MIXTURES" IN ACCORDANCE WITH ACI 301 FOR EACH CLASS OF CONCRETE TO BE USED. THE MIX DESIGNS SHALL MEET THE GUIDELINES AS LISTED IN THE "MATERIAL DATA" SECTION, EXCEPT AS APPROVED BY THE PROJECT ENGINEER.
3. THE ADDITION OF WATER TO THE MIX ON SITE WILL NOT BE ALLOWED, UNLESS SPECIFICALLY APPROVED.
4. CONCRETE MAY NOT BE PLACED DURING FREEZING WEATHER UNLESS SUITABLY PROTECTED, PER ACI 306.1. CONFORM TO ACI 305.1 FOR HOT WEATHER CONCRETING.
5. CONCRETE MIXES FOR INTERIOR CONCRETE SLABS-ON-GROUND SHALL ADHERE TO THE FOLLOWING CRITERIA:
    A. FLY ASH MAY REPLACE UP TO 15% OF PORTLAND CEMENT (MAXIMUM).
        a. DO NOT USE POZZOLANS IN MIXES FOR FINISHED FLOOR SLABS.
    B. AGGREGATE SHALL BE WELL-GRADED WITH 1-1/2" MAXIMUM DIAMETER.
    C. THE MIX SHALL CONTAIN NO ADMIXTURES THAT EXACERBATE SHRINKAGE.
    D. AIR ENTRAINMENT SHALL NOT BE USED.
    E. NO MORE THAN 658 LBS OF PORTLAND CEMENT (7 BAGS), WILL BE ALLOWED PER CUBIC YARD.
6. FLY ASH (CLASS 'C') MAY REPLACE UP TO 25% OF PORTLAND CEMENT, MAXIMUM, EXCEPT AS NOTED FOR INTERIOR SLABS.
7. MINIMUM FLEXURAL STRENGTH, WHERE REQUIRED, SHALL BE TESTED IN ACCORDANCE WITH ASTM C78.
8. CURE SPECIFIC CONCRETE ELEMENTS FOR 72 HOURS AS INDICATED BELOW:
    SLABS-ON-GRADE: MEMBRANE FORMING COMPOUND
9. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC, PRIOR TO FABRICATION. DETAILS SHALL INCLUDE BAR SIZES, LAPS, SPACING, AND PLACEMENT.
10. WELDED WIRE FABRIC SHALL BE LAPPED TWO PANELS AT EDGES AND ENDS, AND TIED SECURELY.
11. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
    A. CONCRETE CAST AGAINST/PERMANENTLY EXPOSED TO EARTH: 3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER:
        a. NO 6 THROUGH NO 18 BARS 2"
        b. NO 5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
    C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
        a. SLABS, WALLS, JOISTS:
            - NO 14 AND NO 18 BARS 1 1/2"
            - NO. 11 BAR AND SMALLER 3/4"
        b. BEAMS, COLUMNS:
            - PRIMARY REINFORCEMENT 1 1/2"
        c. TIES, STIRRUPS, SPIRALS 1 1/2"
12. PROVIDE LAP SPLICES AS INDICATED BELOW UNLESS OTHERWISE NOTED IN THE DRAWINGS.

BAR SIZE	SPLICE LENGTH: TOP BARS*	SPLICE LENGTH: OTHER BARS
#3	1'-3"	1'-0"
#4	1'-8"	1'-3"
#5	2'-5"	1'-10"
#6	3'-4"	2'-7"

* TOP BAR CONDITION OCCURS WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE.

13. SEE PLANS FOR SLABS-ON-GROUND THICKNESS AND REINFORCING. ALL SLABS SHALL BE PLACED OVER A VAPOR BARRIER AND 6-INCHES MINIMUM OF GRANULAR FILL.
14. VAPOR RETARDER SHALL BE ASTM E1745, CLASS A (10 MIL MIN) POLYETHYLENE SHEETS, UNLESS OTHERWISE SPECIFIED, WITH ALL LAPS SEALED AND EDGES TURNED UP 1/2-INCH BELOW FINISH FLOOR SLABS.
15. CONCRETE WITH PORTLAND LIMESTONE CEMENT (PLC) MUST HAVE PERFORMANCE AT LEAST EQUIVALENT TO SPECIFIED CONCRETE WITH OPC, SUCH AS STRENGTH AND DURABILITY. THEREFORE, ITEMS SUCH AS LIMESTONE CONTENT AND PARTICLE SIZE DISTRIBUTION MAY NEED TO BE MODIFIED.
16. UNLESS DETAILED OTHERWISE, BEND DIAMETERS AND HOOK LENGTHS FOR "STANDARD HOOKS" USED FOR STIRRUPS, TIES, AND HOOPS SHALL BE AS SHOWN IN ACI 318-14, TABLE 25.3.2. BEND DIAMETERS AND HOOK LENGTHS FOR "STANDARD HOOKS" EMBEDDED INTO FOOTINGS SHALL BE PER TABLE 25.3.1. (SEE DRAWINGS FOR EMBEDMENT LENGTH OF HOOK INTO FOOTING).
17. MECHANICAL COUPLERS CAPABLE OF SUSTAINING 125% OF THE BAR ULTIMATE TENSILE CAPACITY MAY BE USED IN LIEU OF LAP SPLICES.

POST-INSTALLED ANCHORS

1. LARGE DIAMETER SCREW ANCHORS:
    A. MINIMUM EMBEDMENT, UNLESS OTHERWISE NOTED, SHALL BE:
        a. 4" FOR 1/2" DIAMETER.
        b. 5" FOR 5/8" DIAMETER.
        c. 6" FOR 3/4" DIAMETER.
2. ADHESIVE ANCHORS:
    A. MINIMUM EMBEDMENT SHALL BE 9 TIMES ANCHOR DIAMETER, UNLESS OTHERWISE SPECIFIED, OR LIMITED BY THICKNESS OF CONCRETE OR CONCRETE MASONRY.
    B. ANCHOR RODS TO BE GRADE 55 THREADED ROD, UNLESS OTHERWISE SPECIFIED.
    C. USE SCREENS AT MASONRY HOLLOW BASE CONDITIONS.
3. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED BY QUALIFIED INDIVIDUALS IN STRICT CONFORMANCE TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS INCLUDING FINISH, MINIMUM EMBEDMENT, ADHESIVE TYPES, RECOMMENDED ACCESSORIES FOR BASE CONDITIONS, AND CURE TIMES FOR WEATHER CONDITIONS.
4. ALL POST-INSTALLED ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT VERSIONS OF ACI 355.2 OR ACI 355.4.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".
2. THE STEEL FABRICATOR/ERECTOR SHALL DOCUMENT ANY CONSTRUCTION RELATED DISCREPANCIES AND SHALL FURNISH SAID INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE CONTRACTING OFFICER FOR REVIEW. THERE SHALL BE RESOLUTION TO THE NOTED DISCREPANCIES PRIOR TO FABRICATION OF ANY NEW STRUCTURAL ELEMENTS.
3. THE FABRICATOR SHALL SUBMIT TO THE CONTRACTING OFFICER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL ELEMENTS.
4. ALL BEAMS AND JOISTS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP.
5. ALL WELDING SHALL BE PERFORMED BY CERTIFIED/QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
6. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01.
7. WHERE GALVANIZED TENSION-CONTROLLED (T/C) BOLTS ARE SPECIFIED, COLD-GALVANIZED PAINT SHALL BE APPLIED TO THE UNCOATED ENDS OF THE TC BOLTS FOLLOWING INSTALLATION.
8. BOLTS INDICATED AS "FULLY-TENSIONED" TO BE ASTM F3125, GRADE F1852, GRADE 1.
9. ANCHOR RODS, NUTS, WASHER PLATES SHALL BE G90 HOT-DIPPED GALVANIZED.
10. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.

MISCELLANEOUS STEEL

1. ALL KICK PLATES SHALL EXTEND A MINIMUM OF 4" ABOVE WALKING SURFACE WITH A MAXIMUM OF 1/2" BETWEEN KICKPLATE AND FINISHED FLOOR.
2. PROVIDE GALVANIZED FASTENERS FOR ALL BOLTED CONNECTIONS WHERE ONE OR MORE MEMBERS OR ELEMENTS ARE OF GALVANIZED MATERIAL.
3. MISCELLANEOUS ANCHOR BOLTS, EXPANSION ANCHORS, AND FASTENERS NOT INDICATED, BUT REQUIRED FOR ANCHORAGE OF EQUIPMENT AND MATERIALS, SHALL BE PROVIDED (AS RECOMMENDED BY MANUFACTURER OF ITEMS). ANCHORAGE WILL BE SUBJECT TO REVIEW BY CONTRACTING OFFICER.
4. ALL LADDERS THAT ARE OVER 24 FEET TALL SHALL HAVE A LADDER SAFETY SYSTEM OR PERSONAL FALL ARREST SYSTEM.

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MARK	DESCRIPTION	DATE

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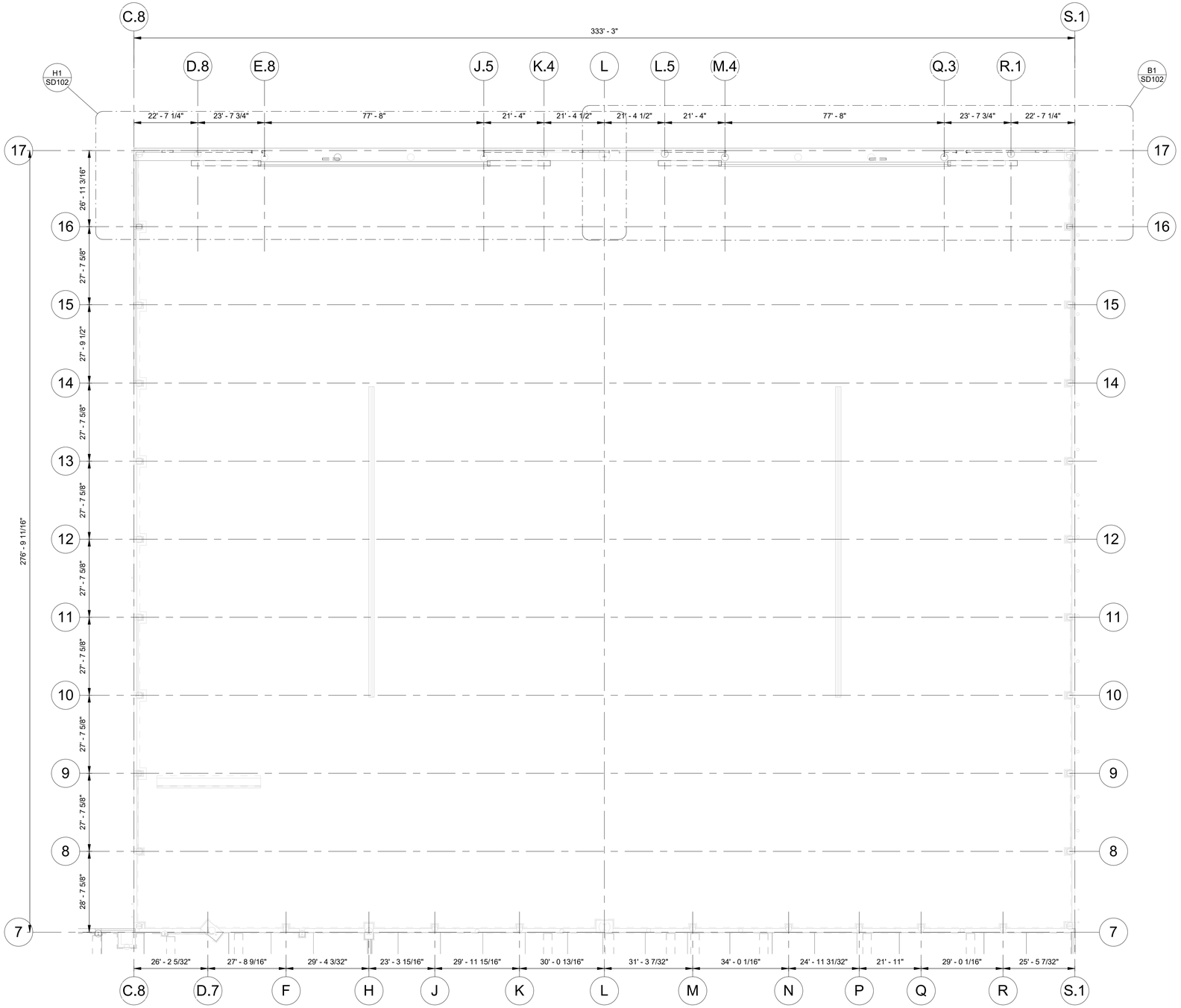


B2 01_OVERALL DEMO FOUNDATION PLAN AREA - HA, HB, HC & HD

1" = 20'-0"

DEMO FOUNDATION PLAN NOTES

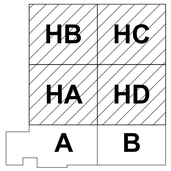
A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. TOP OF EXISTING SLAB ELEVATION = 1020.0'. THIS IS THE DATUM ELEVATION = 100'-0". ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
D. ALL CONSTRUCTION SHALL BE COORDINATED WITH NEW VERTICAL LIFT HANGAR DOOR VENDOR.
E. GENERAL CONTRACTOR TO SUBMIT A DETAILED DEMOLITION, ERECTION, AND SHORING PLAN WITH CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

DEMO PLAN LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEY PLAN



PLAN NORTH

N

0 120" 240" 480"

SCALE: 1" = 240"

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Plot Date: 5/27/2026 2:49:36 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

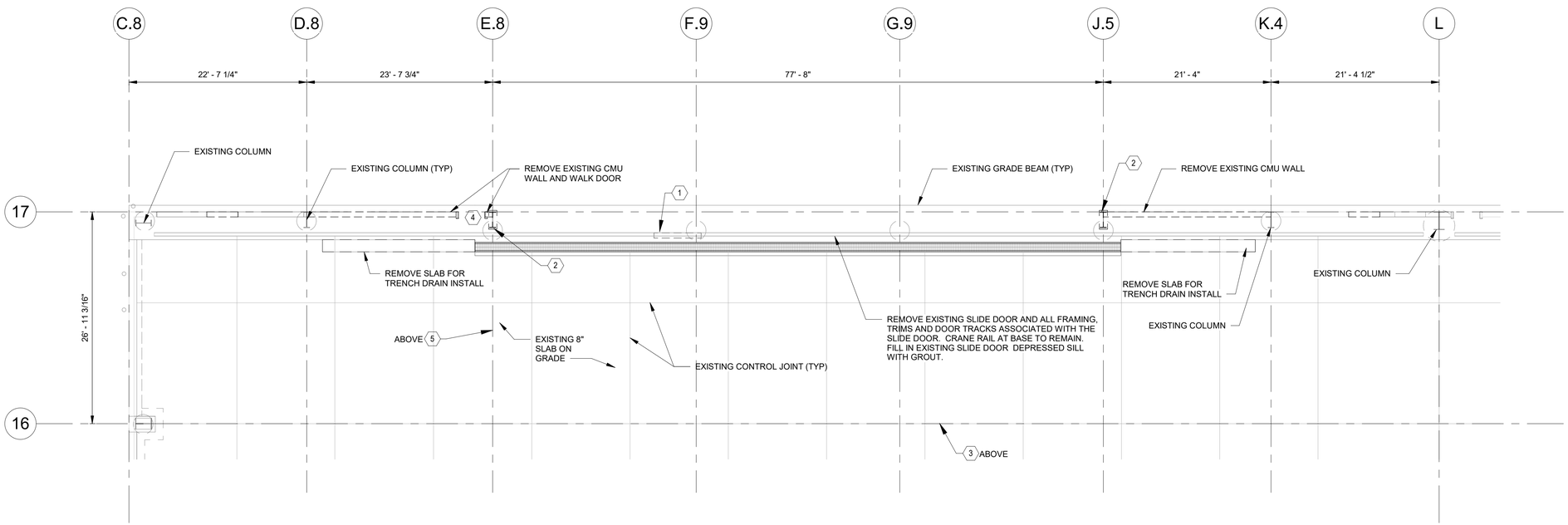
CITRINE-OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W912BG25F0273

DEMO FOUNDATION PLAN AREA -HA, HB, HC & HD

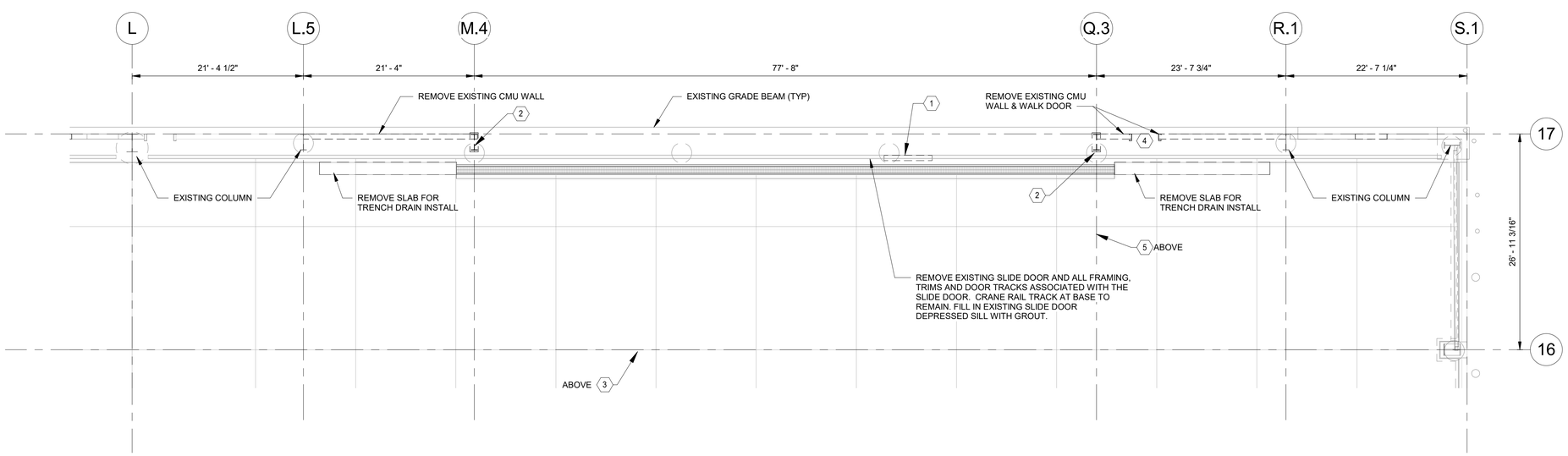
SHEET ID

SD101



H1 01_ENLARGED DEMO FOUNDATION PLAN -AREA HB

1/8" = 1'-0"



B1 01_ENLARGED DEMO FOUNDATION PLAN-AREA HC

1/8" = 1'-0"

DEMO FOUNDATION PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. TOP OF EXISTING SLAB ELEVATION = 1020.0'. THIS IS THE DATUM ELEVATION = 100'-0". ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
D. ALL CONSTRUCTION SHALL BE COORDINATED WITH NEW VERTICAL LIFT HANGAR DOOR VENDOR.
E. GENERAL CONTRACTOR TO SUBMIT A DETAILED DEMOLITION, ERECTION, AND SHORING PLAN WITH CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

DEMO PLAN KEY NOTES

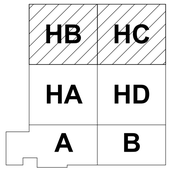
1. CUT NEW MULLION PIT INTO EXISTING GRADE BEAM. COORDINATE LOCATION, DIMENSIONS, AND ALL REQUIREMENTS WITH VERTICAL LIFT HANGAR DOOR VENDOR. DO NOT OVERCUT. MAXIMUM NUMBER OF EXISTING #8 TOP BAR REINFORCING IN THE GRADE BEAM THAT CAN BE CUT IS 2. LOCATE ALL REINFORCING PRIOR TO DEMOLITION. CUT OUT EXISTING CRANE RAIL AS NECESSARY.
2. DEMOLISH COLUMN UP TO NEW HANGAR DOOR CLEARANCE HEIGHT. REMOVE EXISTING SECONDARY CONCRETE POUR AROUND COLUMN TO A DEPTH OF APPROXIMATELY 7" TO GAIN ACCESS TO EXISTING ANCHOR BOLTS. DO NOT OVER CUT AND DO NOT CUT INTO EXISTING GRADE BEAM. TOP OF EXISTING GRADE BEAM IS AT 8" BELOW SLAB. CUT ANCHOR RODS TO A MINIMUM DEPTH OF 6" BELOW TOP OF SLAB.
3. CAREFULLY DECONSTRUCT EXISTING DRAFT CURTAIN ATTACHED TO EXISTING MAIN FRAME BEAM AT GRID 16. SET ASIDE FOR RE-ATTACHMENT AFTER BEAM RETROFITS ARE COMPLETED.
4. CAREFULLY DECONSTRUCT EXISTING DOOR OPENING FRAMING AND SET ASIDE FOR RE-USE IN NEW DOOR OPENINGS.
5. REMOVE HSS8.625 PIPE KICKER ABOVE

DEMO PLAN LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEY PLAN



PLAN NORTH

N

0 48" 96" 192"

SCALE: 1/8" = 12"

STATE OF TEXAS
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115262
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10/28/2024

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

ENLARGED DEMO FLOOR PLAN AREA HB & HC

SHEET ID

SD102

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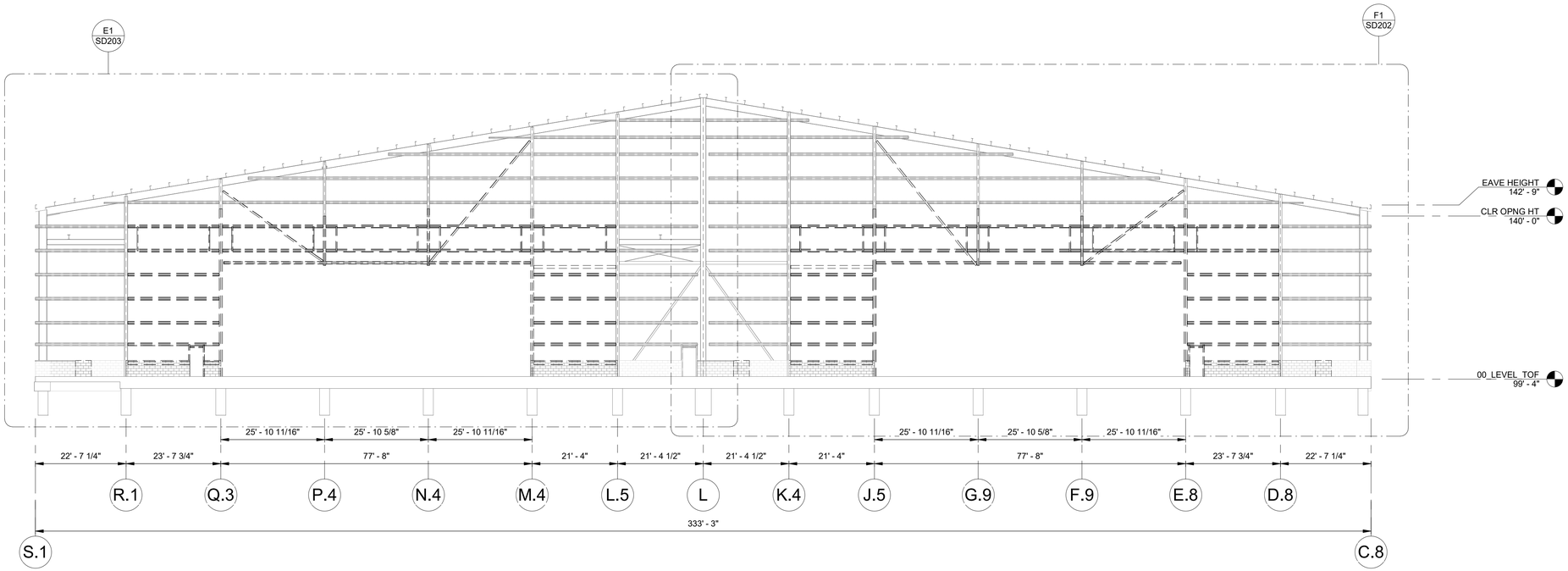


H1 DEMO OVERALL ELEVATION AREA HB & HC

1/16" = 1'-0"

DEMO FRAMING ELEVATION NOTES

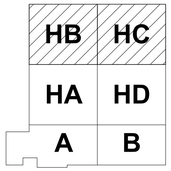
A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. DASHED LINE INDICATES EXISTING FRAMING TO BE REMOVED.
D. GENERAL CONTRACTOR TO SUBMIT A DETAILED DEMOLITION, ERECTION, AND SHORING PLAN WITH CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

DEMO LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEY PLAN



0 96" 192" 384"

SCALE: 1/16" = 12"

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819 TAYLOR ST, FORT WORTH, TX 76102

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2801 GRANDE AVE
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DEMO ELEVATION PLAN AREA HB & HC

SHEET ID

SD201

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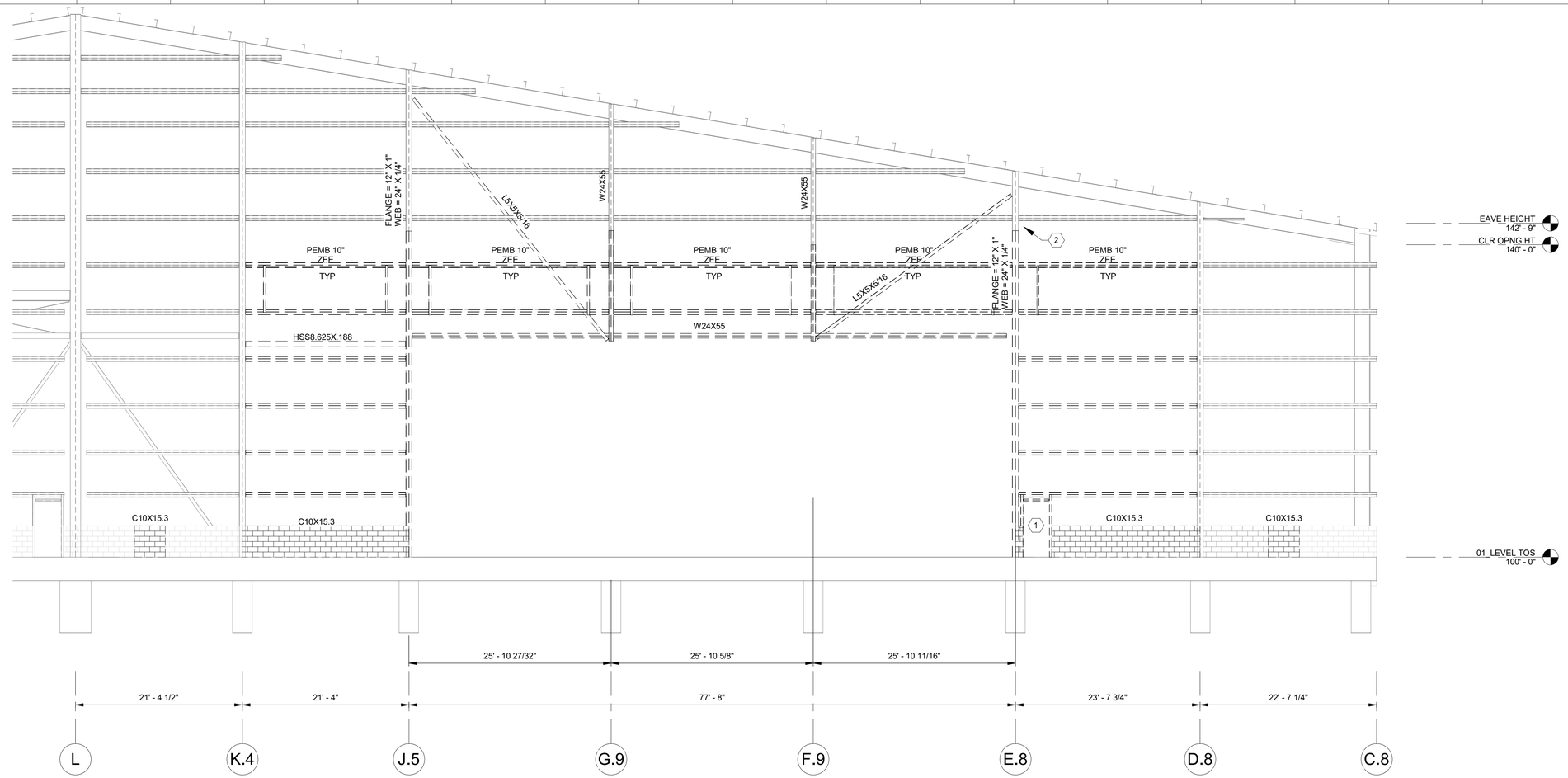

F1 ENLARGED DEMO ELEVATION - AREA HB

1/8" = 1'-0"

DEMO FRAMING ELEVATION NOTES

A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. DASHED LINE INDICATES EXISTING FRAMING TO BE REMOVED.
D. GENERAL CONTRACTOR TO SUBMIT A DETAILED DEMOLITION, ERECTION, AND SHORING PLAN WITH CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

DEMO KEY NOTES

1. CAREFULLY DECONSTRUCT EXISTING DOOR OPENING FRAMING AND SET ASIDE FOR RE-USE IN NEW DOOR OPENINGS.
2. DEMOLISH HSS8.625 PIPE KICKER THAT SPANS BETWEEN GRIDS 16 AND 17

DEMO LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEY PLAN

HB	HC
HA	HD
A	B

0 48" 96" 192"

SCALE:1/8" = 12"

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MARK	DESCRIPTION	DATE

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ENLARGED DEMO ELEVATION PLAN - AREA HB

SHEET ID

SD202

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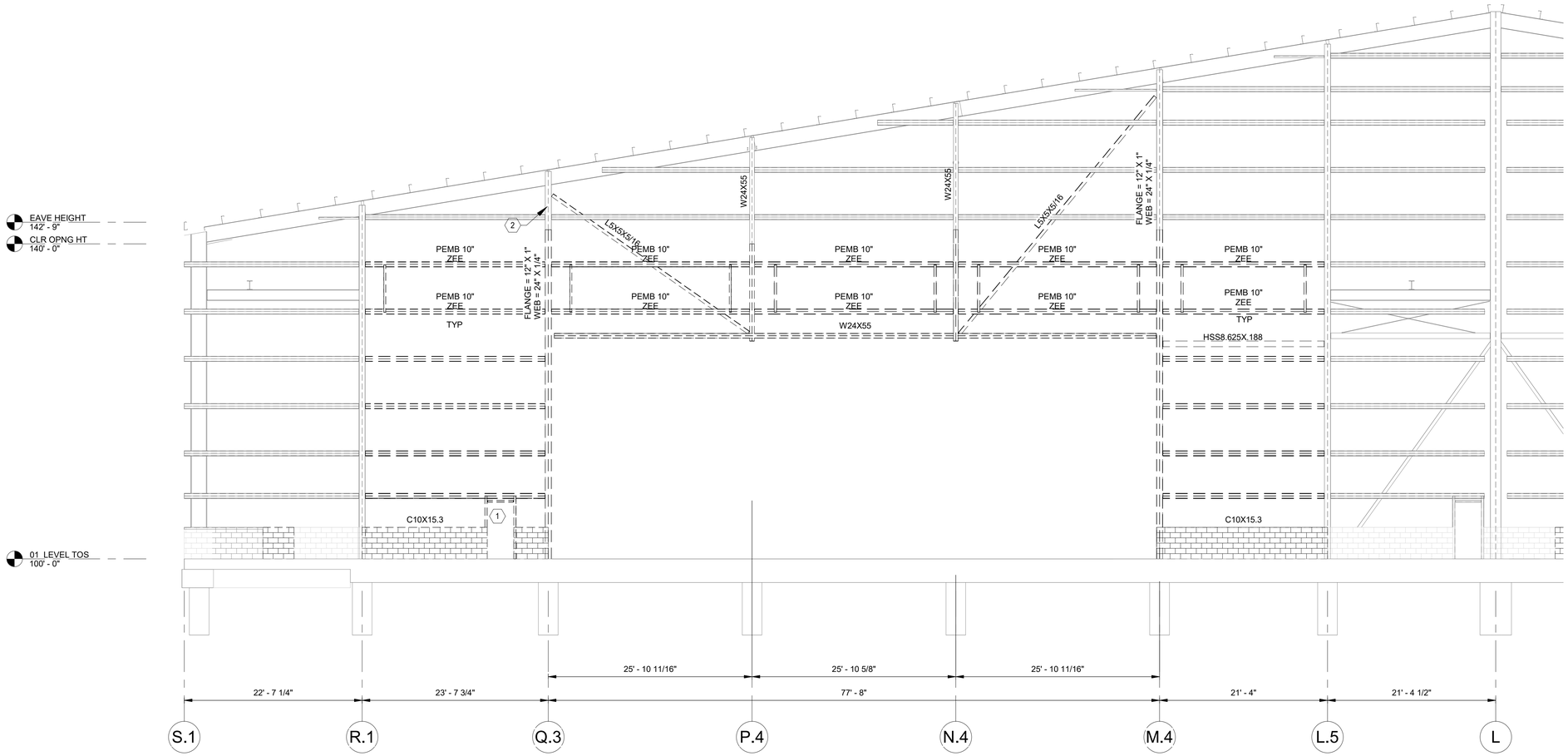

E1 ENLARGED DEMO ELEVATION - AREA HC

1/8" = 1'-0"

DEMO FRAMING ELEVATION NOTES

A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. DASHED LINE INDICATES EXISTING FRAMING TO BE REMOVED.
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DEMO KEY NOTES

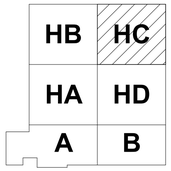
1. CAREFULLY DECONSTRUCT EXISTING DOOR OPENING FRAMING AND SET ASIDE FOR RE-USE IN NEW DOOR OPENINGS.
2. DEMOLISH HSS8.625 PIPE KICKER THAT SPANS BETWEEN GRIDS 16 AND 17

DEMO LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

KEY PLAN



0 48" 96" 192"

SCALE:1/8" = 12"

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MARK	DESCRIPTION	DATE

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DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

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ENLARGED DEMO ELEVATION PLAN - AREA HC

SHEET ID

SD203

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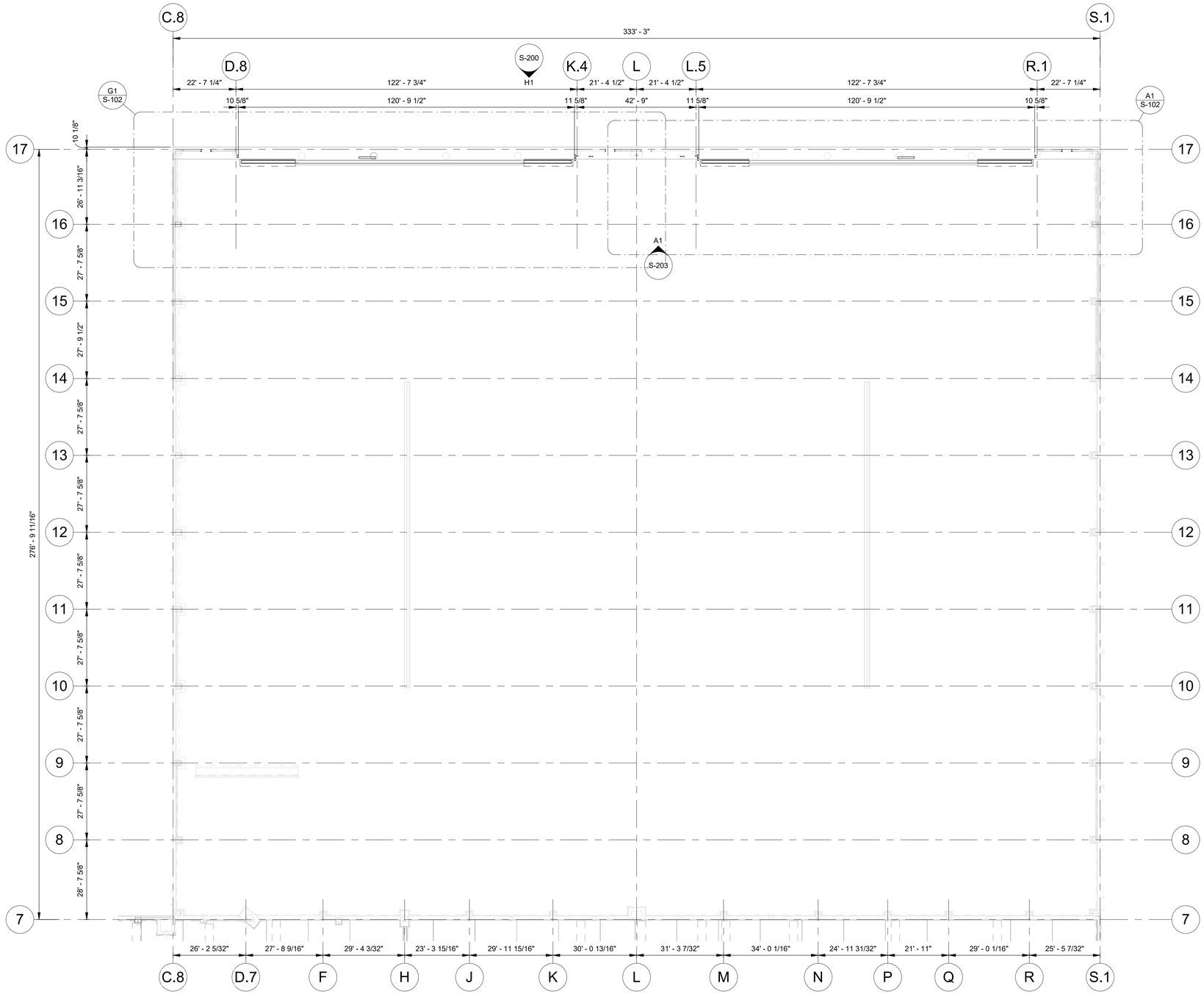
Plot Date: 5/27/2026 2:49:38 PM



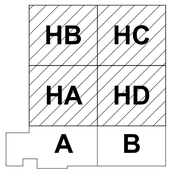
B1 OVERALL NEW FOUNDATION PLAN

1" = 20'-0"

0 120" 240" 480"

SCALE: 1" = 240"

KEY PLAN



PLAN NORTH

N

0 120" 240" 480"

SCALE: 1" = 240"

STATE OF TEXAS
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115262
LICENSED
PROFESSIONAL ENGINEER

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MARK	DESCRIPTION	DATE

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

OVERALL NEW FOUNDATION PLAN

SHEET ID

S-101

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/S_B90176 Hangar Door Expansion_D25-04414_R24.rvt

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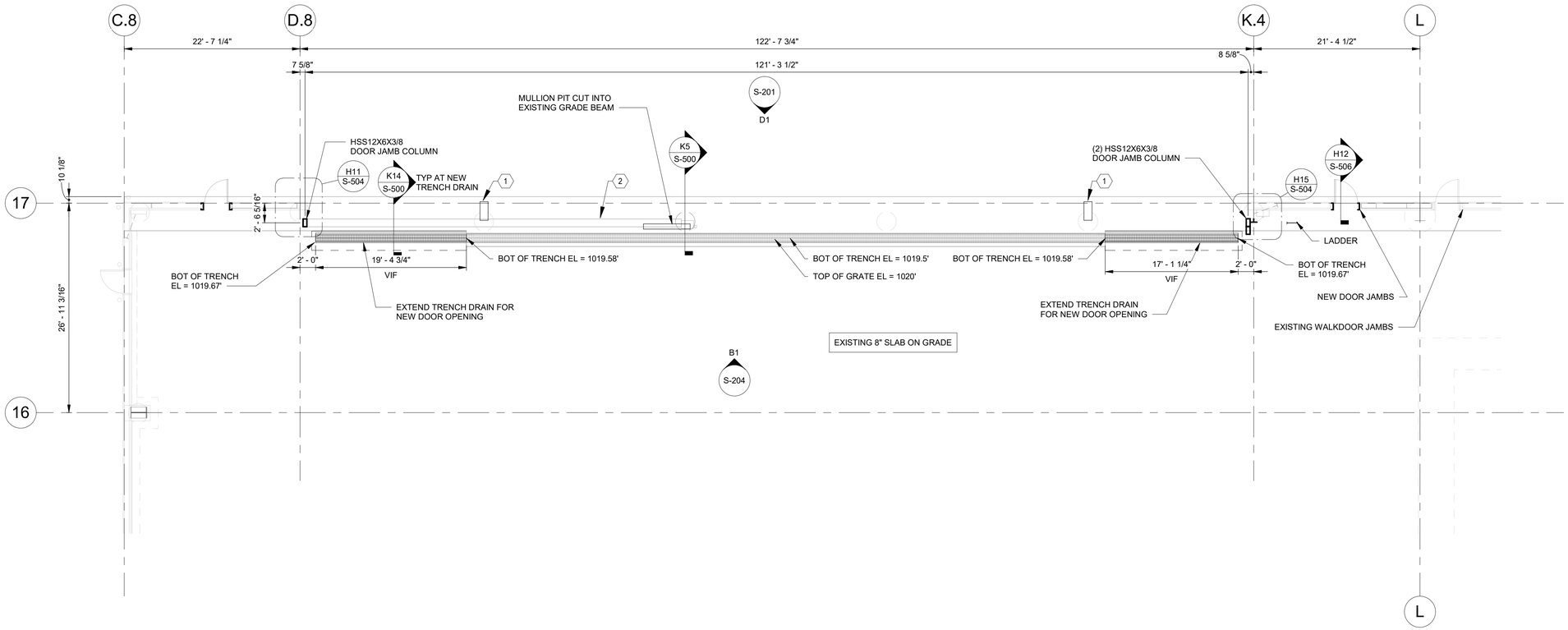
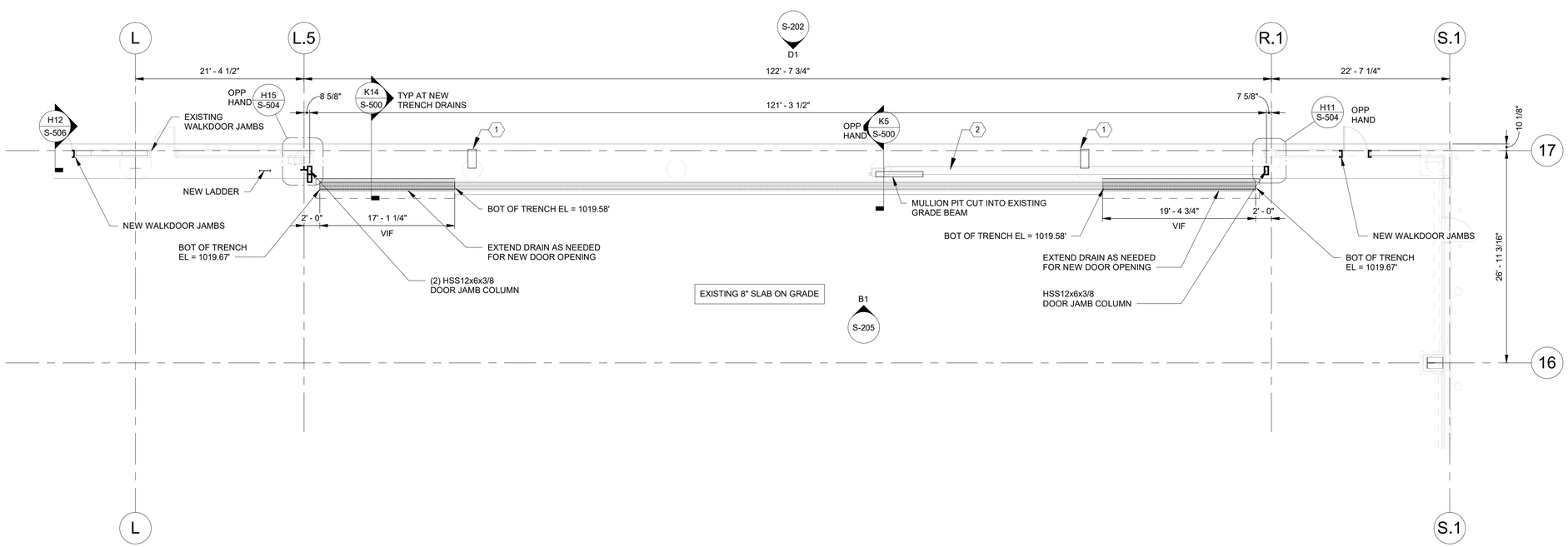


G1 01_ENLARGED NEW FOUNDATION PLAN - AREA HB

1/8" = 1'-0"



A1 ENLARGED NEW FOUNDATION PLAN - AREA HC

1/8" = 1'-0"

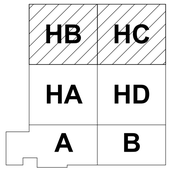
FOUNDATION PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. TOP OF EXISTING SLAB ELEVATION = 1020.0'. THIS IS THE DATUM ELEVATION = 100'-0". ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
D. REFER TO CS101 FOR NEW BOLLARDS AT NEW HANGAR AND MAN DOORS.
E. ALL NEW CONSTRUCTION SHALL BE COORDINATED WITH NEW VERTICAL LIFT HANGAR DOOR VENDOR.
F. REPAIR ALL REMOVED ANCHOR LOCATIONS, CRACKS, AND JOINT SEALANTS IN EXISTING CONCRETE FLOOR SLABS AT AREAS WITH NEW FLOOR FINISH AND STRIPING. COORDINATE WITH SHEET I-114.

FOUNDATION PLAN KEY NOTES

1. REPAIR CONCRETE AT COLUMN DEMO LOCATIONS. RE: D5 / S-500
2. FILL EXISTING DOOR RAIL POCKET WITH NON-SHRINK GROUT, FULL LENGTH OF EXISTING DOOR TRACK

KEY PLAN



PLAN NORTH

N

0 48" 96" 192"

SCALE: 1/8" = 12"

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Plot Date: 5/27/2026 2:49:38 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

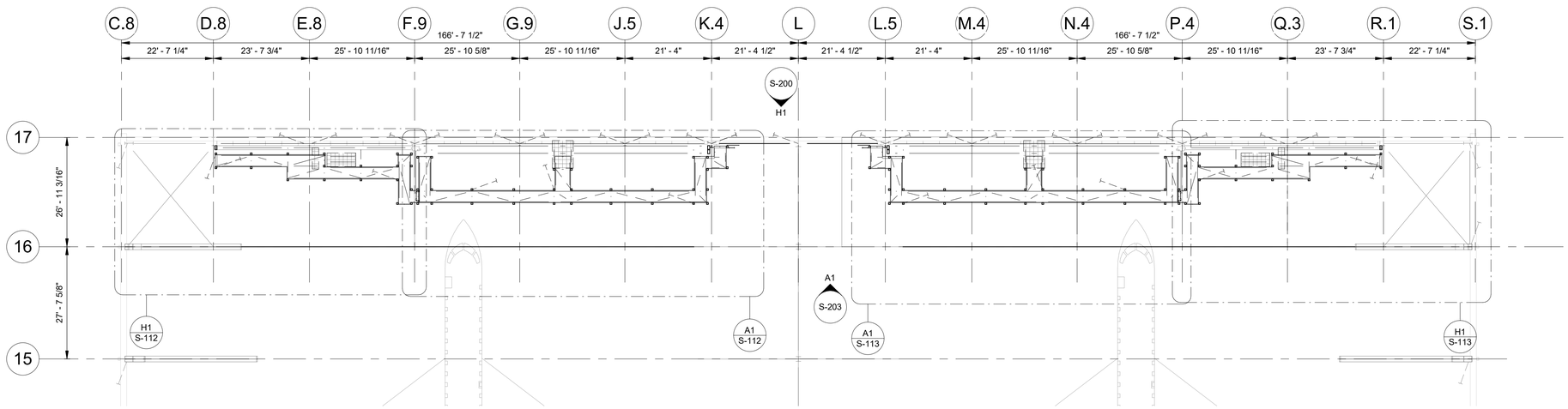
CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

ENLARGED NEW FOUNDATION PLANS

SHEET ID

S-102



H1 OVERALL NEW CATWALK FRAMING PLAN - AREAS HB & HC

1/16" = 1'-0"

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 96" 192" 384"

SCALE: 1/16" = 12"

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File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion, Ft Hood/S_B90176 Hanger Door Expansion_025-04414_R24.rvt

Plot Date: 5/27/2026 2:49:39 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
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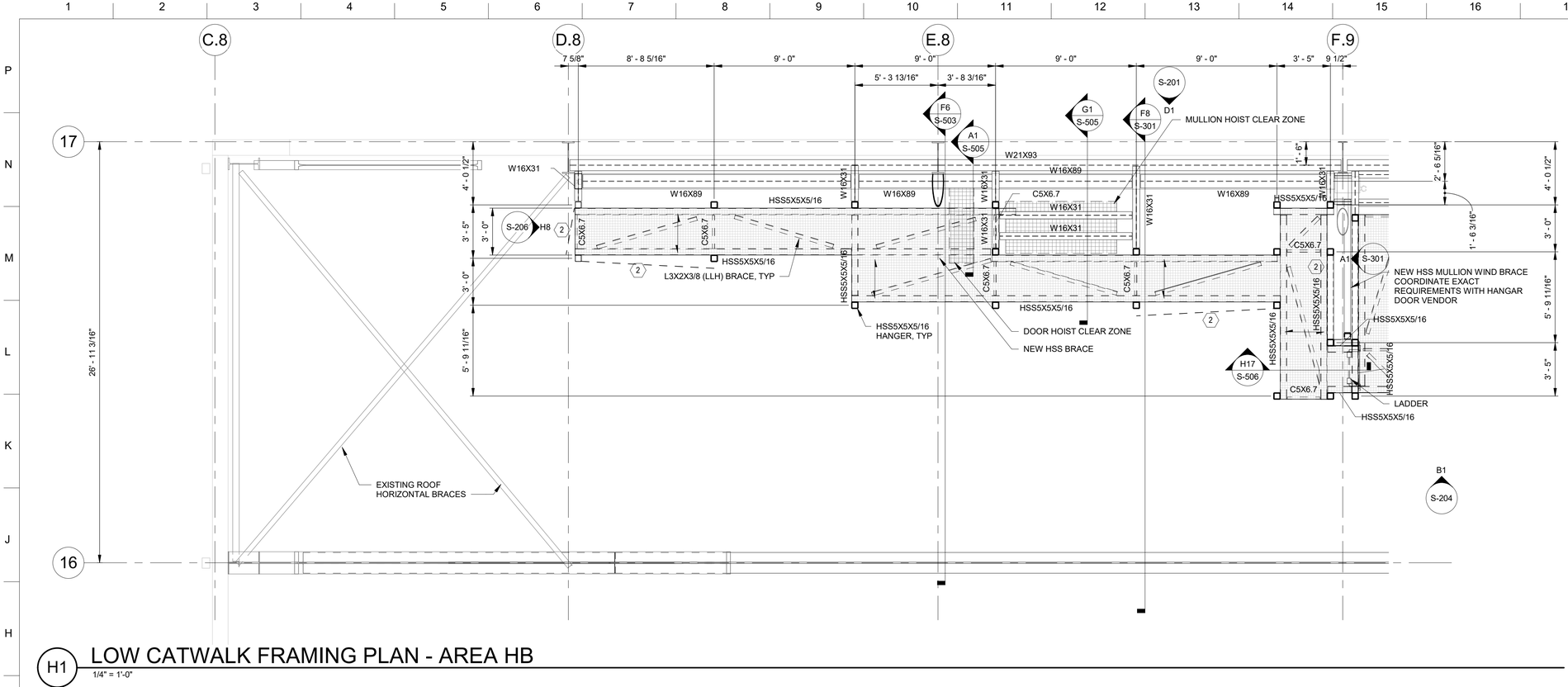
W9126G25F0273

OVERALL NEW CATWALK FRAMING PLAN - AREA HB & HC

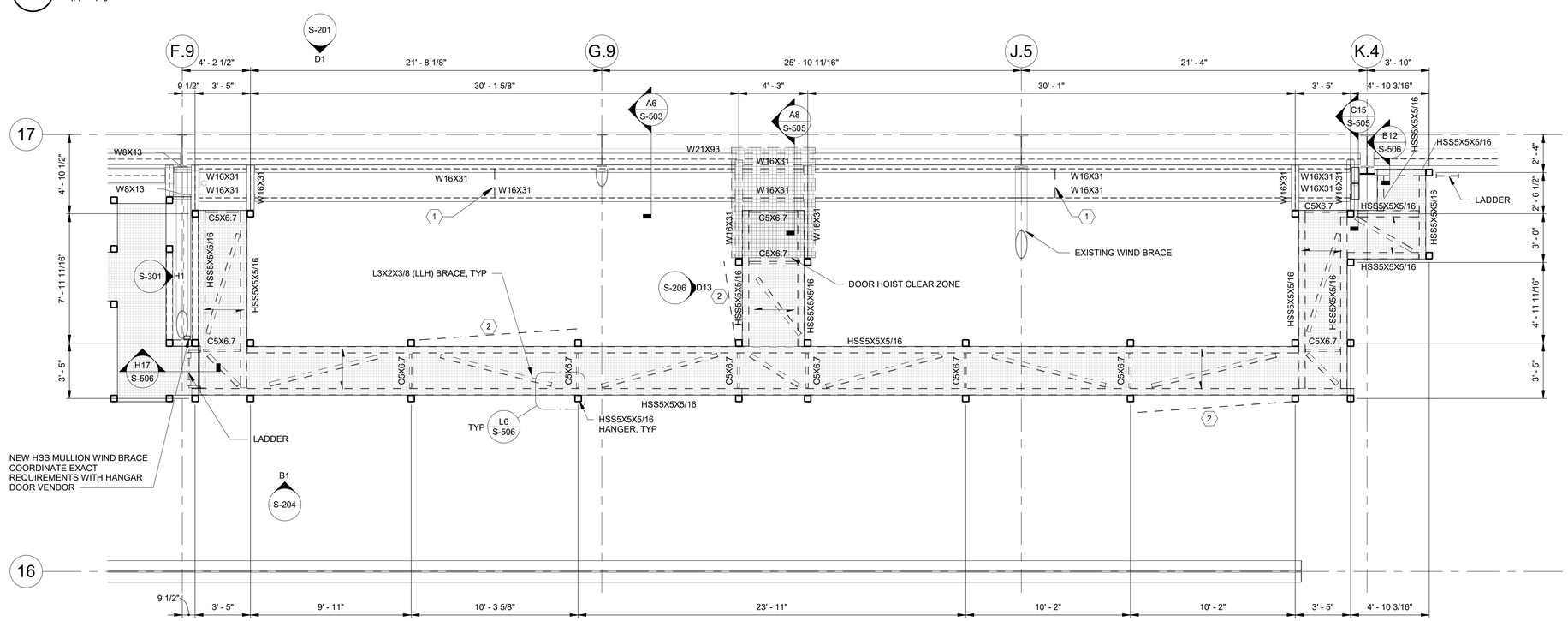
SHEET ID

S-111



H1 LOW CATWALK FRAMING PLAN - AREA HB

1/4" = 1'-0"



A1 HIGH CATWALK FRAMING PLAN - AREA HB

1/4" = 1'-0"

CATWALK FRAMING PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. LOCATIONS OF THE NEW DOORS AND EQUIPMENT SHOWN ON THE PLAN HAVE BEEN ASSUMED FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE FINAL UNIT LOCATIONS AND WEIGHTS (AND ADDITIONAL UNITS) AND SUBMIT TO CONTRACTING OFFICER FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.
D. PROVIDE GUARDRAIL AT PERIMETER OF ALL CATWALKS REFER TO E1/S-501.

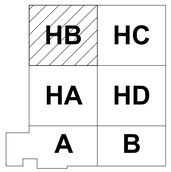
FRAMING PLAN KEY NOTES

1. PROVIDE FLANGE BRACING AT MIDSPAN OF BEAM PER K16 / S-501
2. HSS 5X5X5/16 VERTICAL BRACE BAY

FRAMING PLAN LEGEND

SPAN DIRECTION OF 19W4 1-1/4 X 1/8 GALVANIZED SERRATED CATWALK GRATING

KEY PLAN



PLAN NORTH

N

0 24" 48" 96"

SCALE: 1/4" = 12"

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Plot Date: 5/27/2026 2:49:39 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

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FORT HOOD, TX
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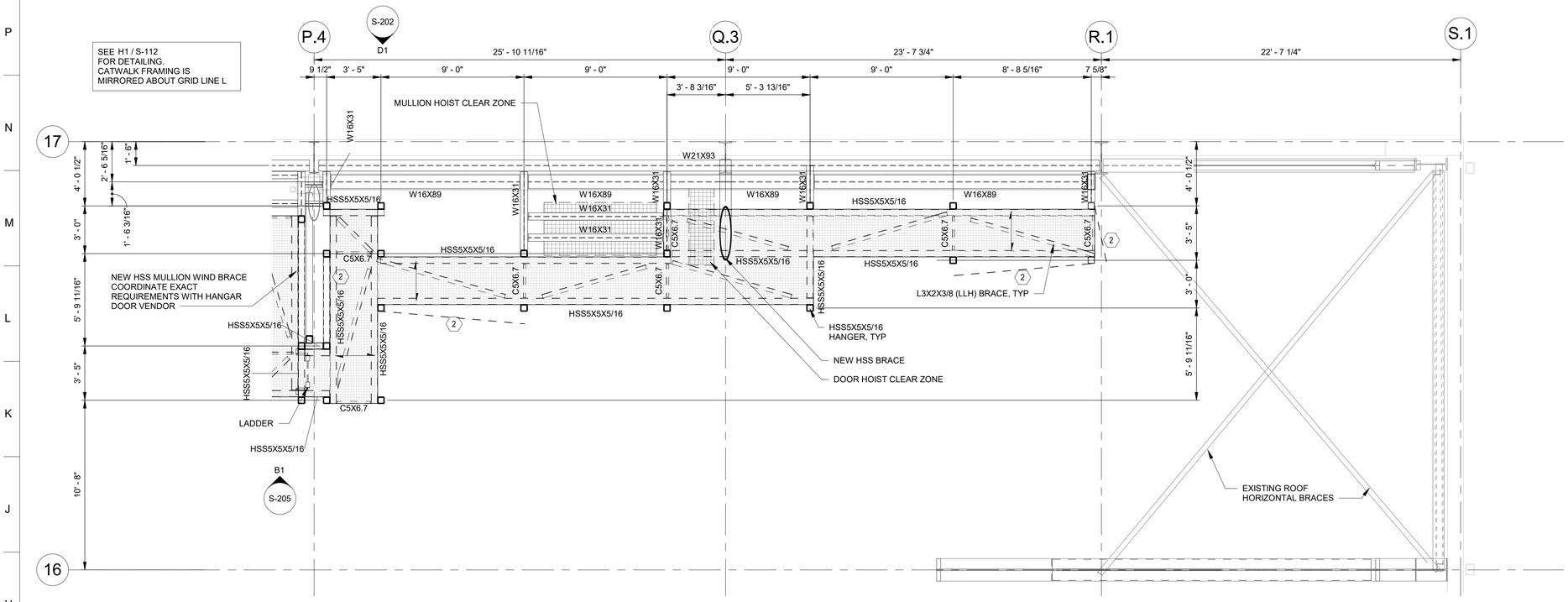
W9126G25F0273

NEW CATWALK FRAMING PLAN - AREA HB

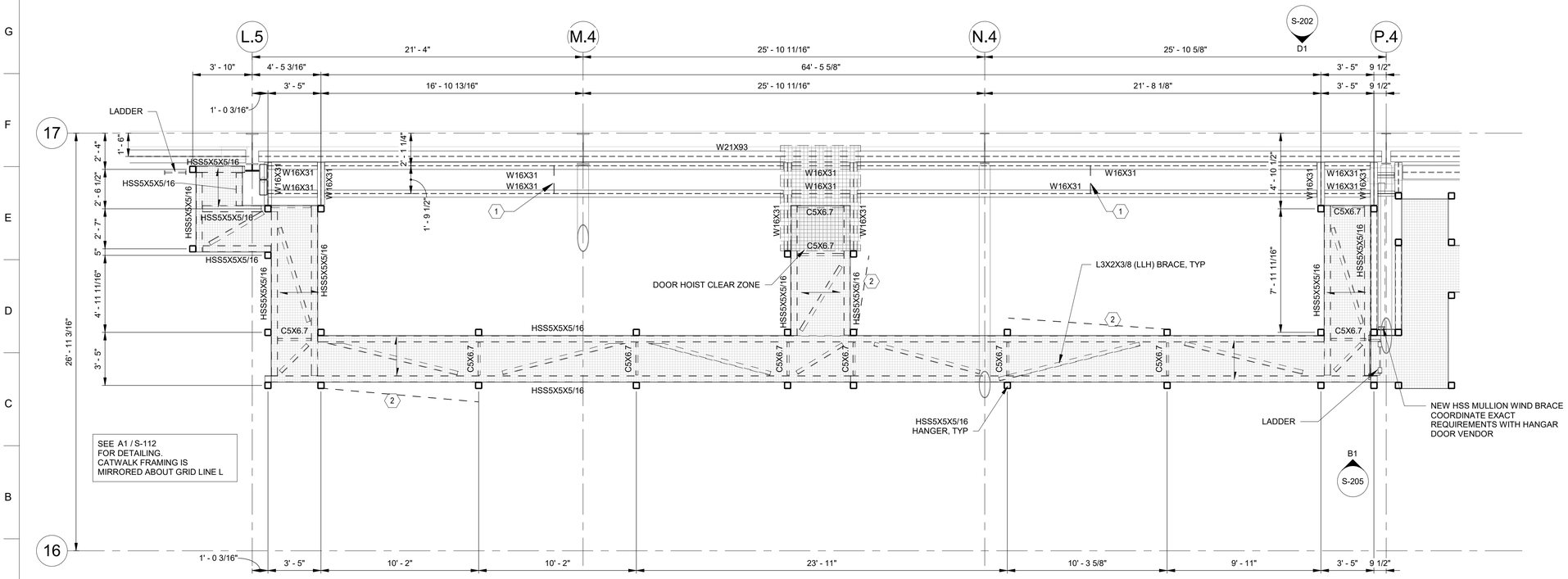
SHEET ID

S-112



H1 LOW CATWALK FRAMING PLAN - AREA HC

1/4" = 1'-0"



A1 HIGH CATWALK FRAMING PLAN - AREA HC

1/4" = 1'-0"

CATWALK FRAMING PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. LOCATIONS OF THE NEW DOORS AND EQUIPMENT SHOWN ON THE PLAN HAVE BEEN ASSUMED FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE FINAL UNIT LOCATIONS AND WEIGHTS (AND ADDITIONAL UNITS) AND SUBMIT TO CONTRACTING OFFICER FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.
D. PROVIDE GUARDRAIL AT PERIMETER OF ALL CATWALKS REFER TO E1/S-501.

FRAMING PLAN KEY NOTES

1. PROVIDE FLANGE BRACING AT MIDSPAN OF BEAM PER K16 / S-501
2. HSS 5X5X5/16 VERTICAL BRACE BAY

FRAMING PLAN LEGEND

SPAN DIRECTION OF 19W4 1-1/4 X 1/8 GALVANIZED SERRATED CATWALK GRATING

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 24" 48" 96"

SCALE: 1/4" = 12"

STATE OF TEXAS
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Plot Date: 5/27/2026 2:49:40 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

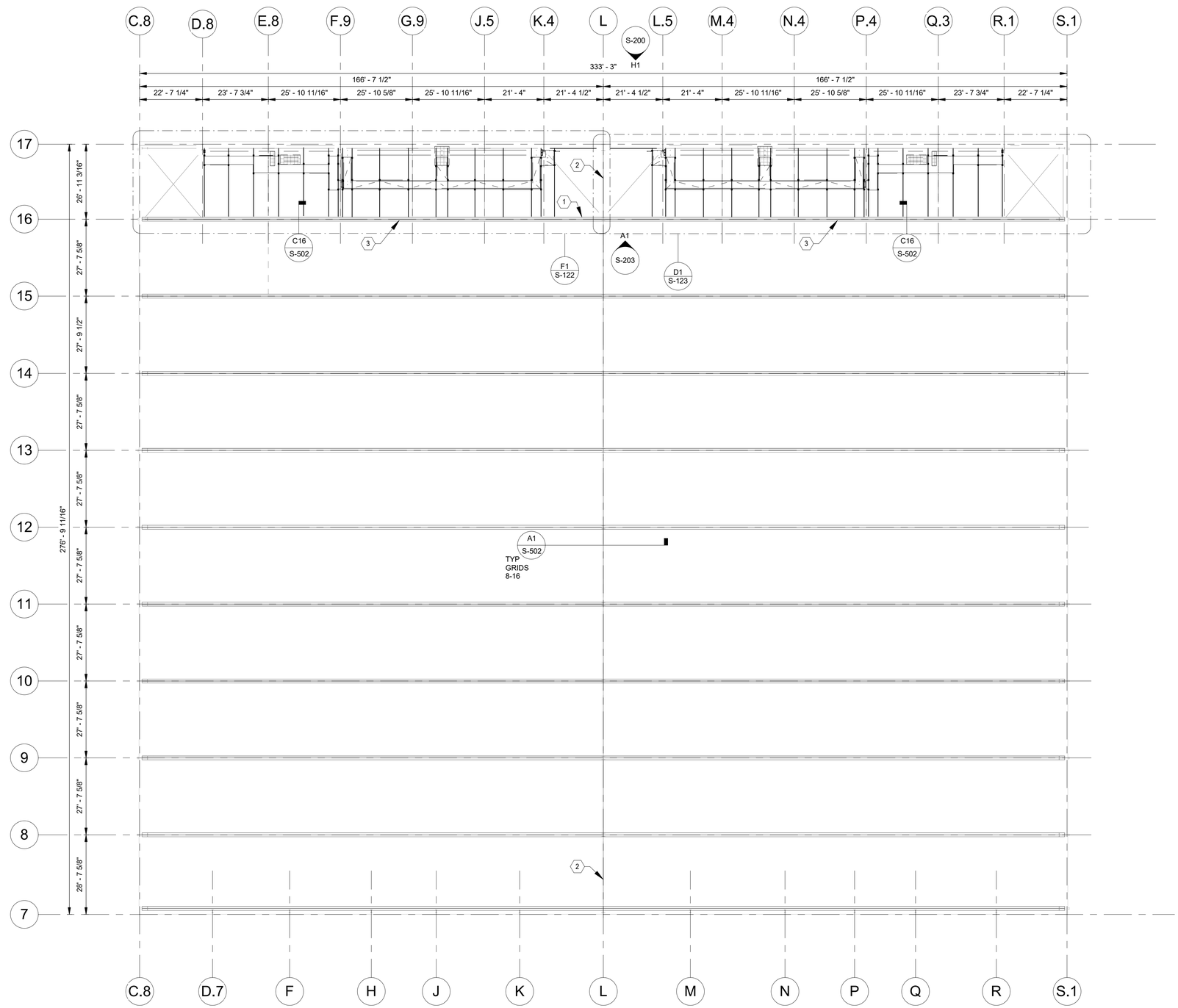
CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

NEW CATWALK FRAMING PLAN - AREA HC

SHEET ID

S-113



A1 OVERALL ROOF FRAMING PLAN

1" = 20'-0"

ROOF FRAMING PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.

B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.

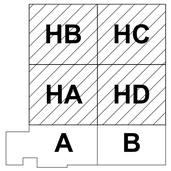
C. LOCATIONS OF THE DOORS AND EQUIPMENT SHOWN ON THE PLAN HAVE BEEN ASSUMED FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE FINAL UNIT LOCATIONS AND WEIGHTS (AND ADDITIONAL UNITS) AND SUBMIT TO CONTRACTING OFFICER FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.

D. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.

FRAMING PLAN KEY NOTES

1. RETROFIT EXISTING 12-3/4" PIPE KICKER. RE: L6 / S-502
2. RETROFIT EXISTING W14X90 TRUSS DIAGONAL AT END BAY, RE: L1 / S-502
3. REINSTALL EXISTING DRAFT CURTAIN AFTER WT REINFORCING IS ADDED TO EXISTING MAIN FRAME BEAM.

KEY PLAN



PLAN NORTH

N

0 120" 240" 480"

SCALE: 1" = 240"

STATE OF TEXAS
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MARK	DESCRIPTION	DATE

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
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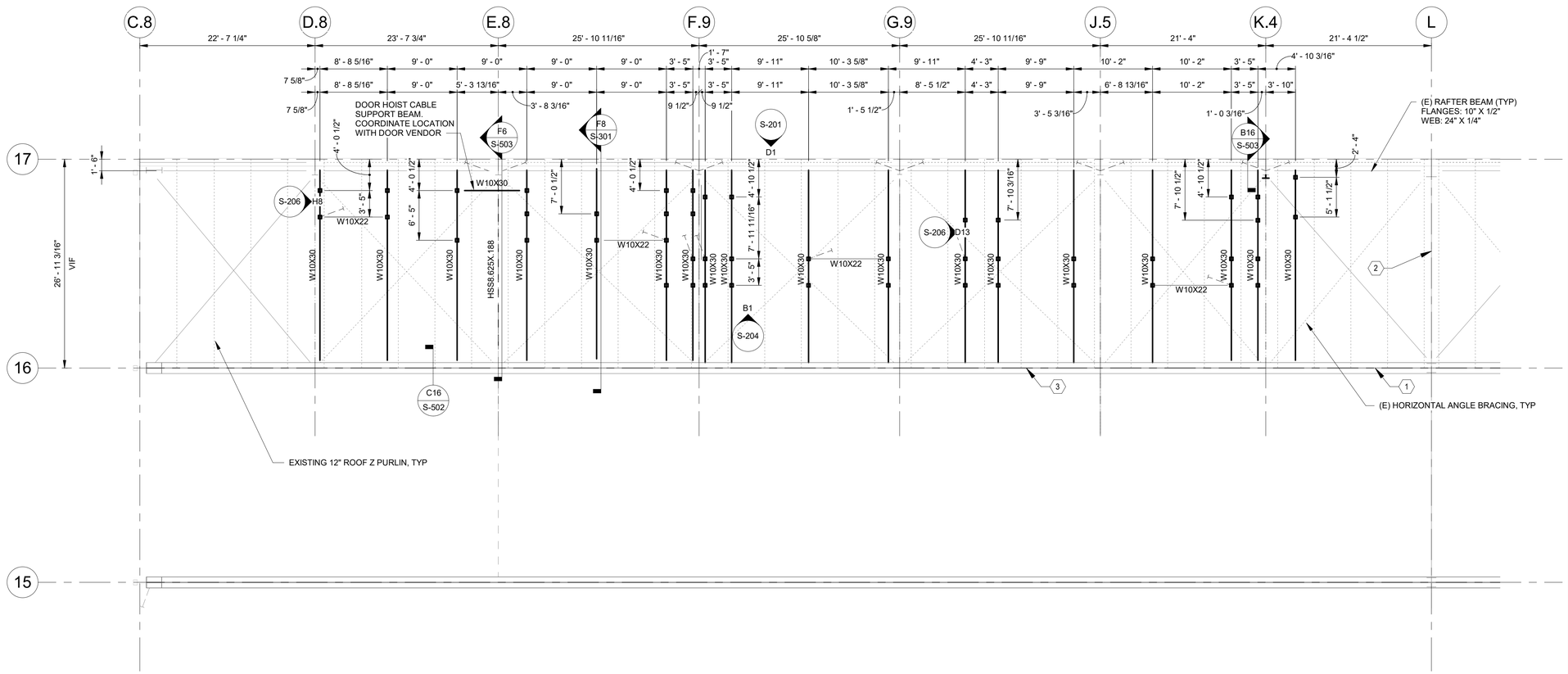
OVERALL ROOF FRAMING PLAN

SHEET ID

S-121

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion - Ft Hood/S_B90176 Hanger Door Expansion_D25-04414_R24.rvt

Plot Date: 5/27/2026 2:49:40 PM



F1 NEW ROOF FRAMING PLAN - AREA HB

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.

B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.

C. LOCATIONS OF THE DOORS AND EQUIPMENT SHOWN ON THE PLAN HAVE BEEN ASSUMED FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE FINAL UNIT LOCATIONS AND WEIGHTS (AND ADDITIONAL UNITS) AND SUBMIT TO CONTRACTING OFFICER FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.

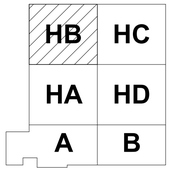
D. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.

FRAMING PLAN KEY NOTES

1. RETROFIT EXISTING 12-3/4" PIPE KICKER. RE: L6 / S-502
2. RETROFIT EXISTING W14X90 TRUSS DIAGONAL AT END BAY. RE: L1 / S-502
3. REINSTALL EXISTING DRAFT CURTAIN AFTER WT REINFORCING IS ADDED TO EXISTING MAIN FRAME BEAM.

FRAMING PLAN LEGEND

KEY PLAN



PLAN NORTH

N

0 48" 96" 192"

SCALE: 1/8" = 12"

STATE OF TEXAS
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Plot Date: 5/27/2026 2:49:41 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY:
SIZE: ANSI D

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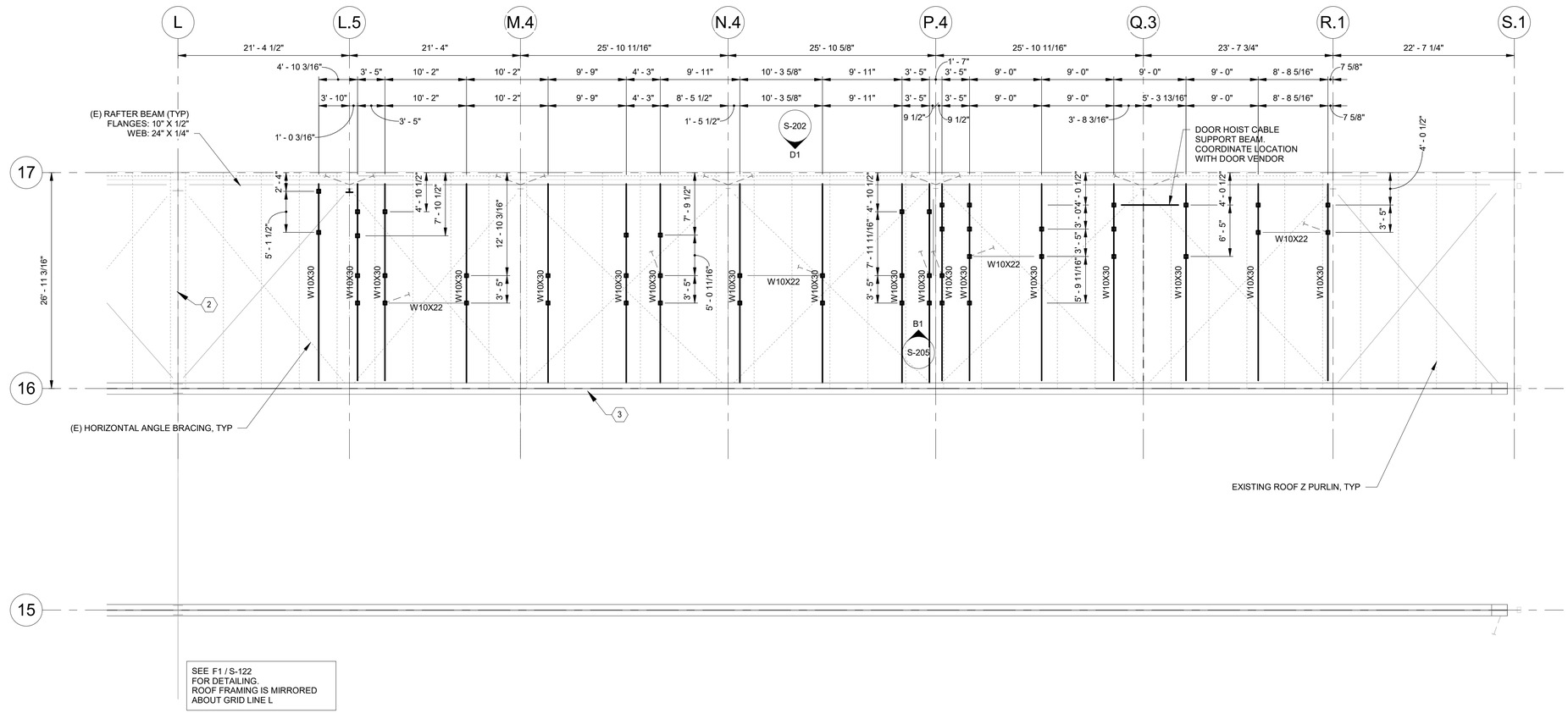
W9126G25F0273

NEW ROOF FRAMING PLAN - AREA HB

SHEET ID

S-122



SEE F1 / S-122
FOR DETAILING.
ROOF FRAMING IS MIRRORED
ABOUT GRID LINE L

D1 NEW ROOF FRAMING PLAN - AREA HC

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

A. REFER TO DRAWINGS S-001 THROUGH S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
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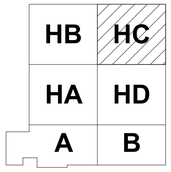
D. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.

FRAMING PLAN KEY NOTES

1. RETROFIT EXISTING 12-3/4" PIPE KICKER. RE: L6 / S-502
2. RETROFIT EXISTING W14X90 TRUSS DIAGONAL AT END BAY. RE: L1 / S-502
3. REINSTALL EXISTING DRAFT CURTAIN AFTER WT REINFORCING IS ADDED TO EXISTING MAIN FRAME BEAM.

FRAMING PLAN LEGEND

KEY PLAN



PLAN NORTH
N

0 48" 96" 192"
SCALE: 1/8" = 12"

STATE OF TEXAS
05/28/2026
WESTON McCANN
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MARK	DESCRIPTION	DATE

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DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
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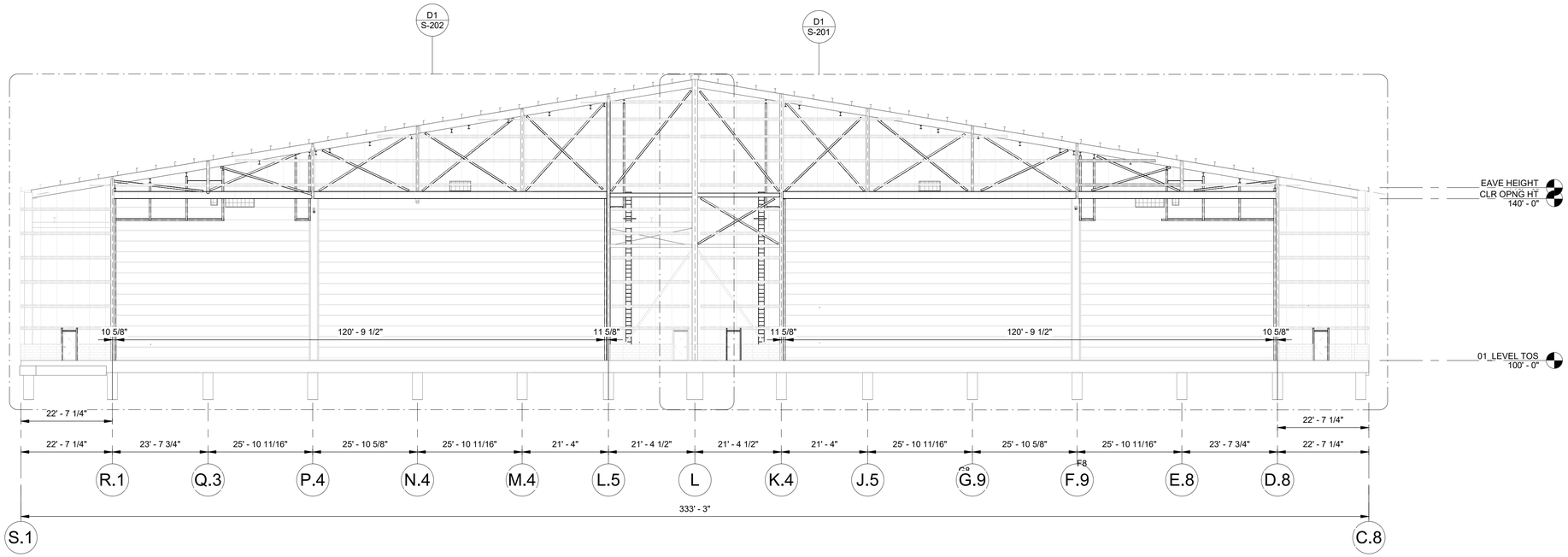
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

NEW ROOF FRAMING PLAN - AREA HC

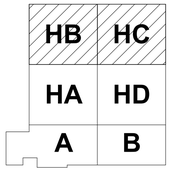
SHEET ID
S-123



H1 NEW CONSTRUCTION OVERALL ELEVATION - AREA HB & HC

1/16" = 1'-0"

KEY PLAN



0 96" 192" 384"

SCALE: 1/16" = 12"

STATE OF TEXAS
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File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion - Ft Hood/S_B90176 Hanger Door Expansion_D25-04414_R24.rvt

Plot Date: 5/27/2026 2:49:41 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

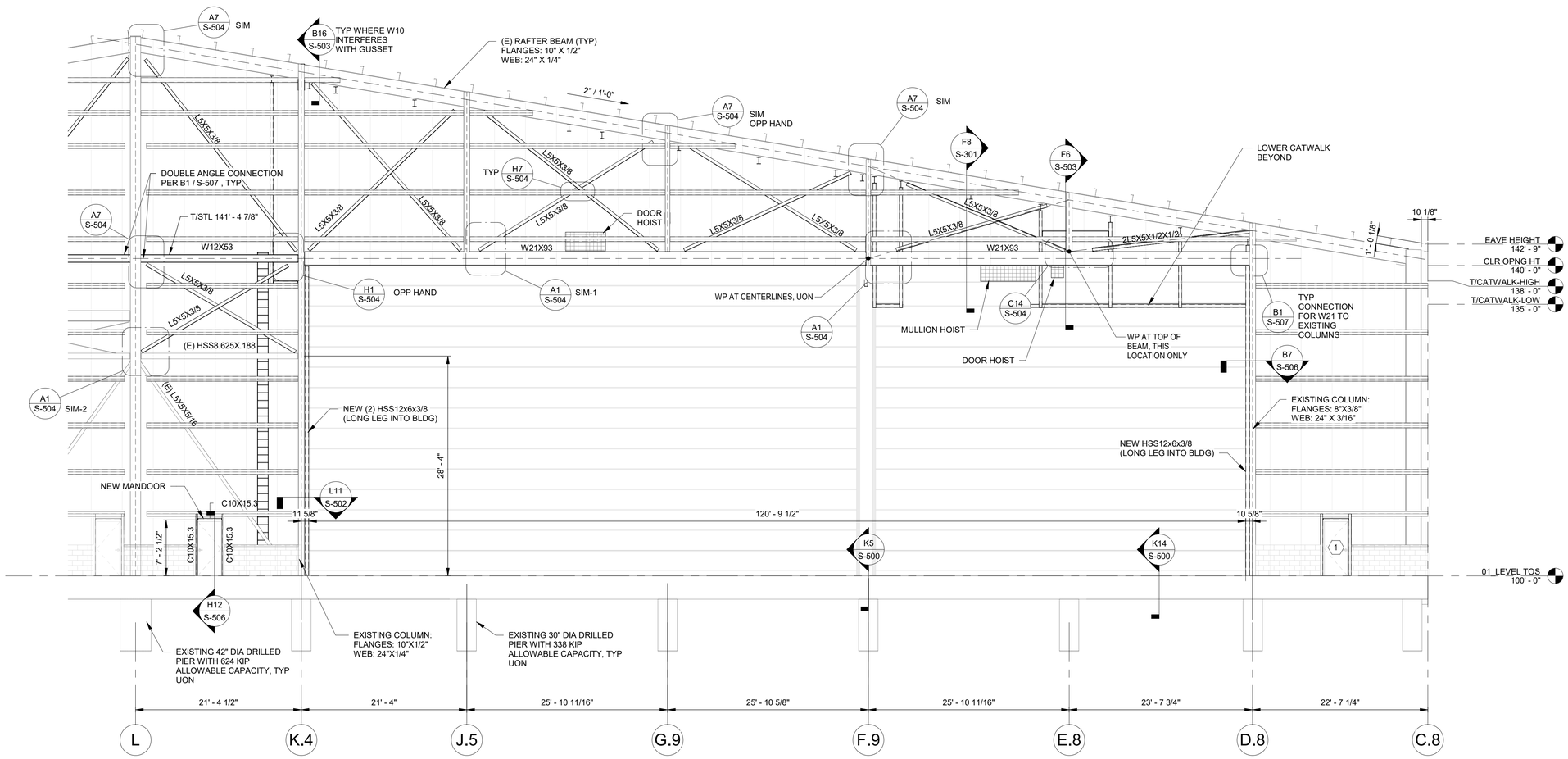
CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

NEW CONSTRUCTION OVERALL ELEVATION
AREAS HB & HC

SHEET ID

S-200



D1 ENLARGED NEW CONSTRUCTION ELEVATION - AREA HB

1/8" = 1'-0"

FRAMING ELEVATION NOTES

A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.
D. RAILING NOT SHOWN FOR CLARITY

FRAMING ELEVATION KEY NOTES

1. NEW MANDOOR. RE-USE EXISTING OPENING FRAMING FROM DEMOED DOORS. CLEAN AND REFINISH STEEL.

KEY PLAN

HB	HC
HA	HD
A	B

0 48" 96" 192"

SCALE: 1/8" = 12"

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US ARMY CORPS OF ENGINEERS
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ENLARGED NEW CONSTRUCTION ELEVATION
AREA - HB

SHEET ID

S-201

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion, Ft Hood/S_B90176 Hangar Door Expansion_D25-04414_R24.rvt

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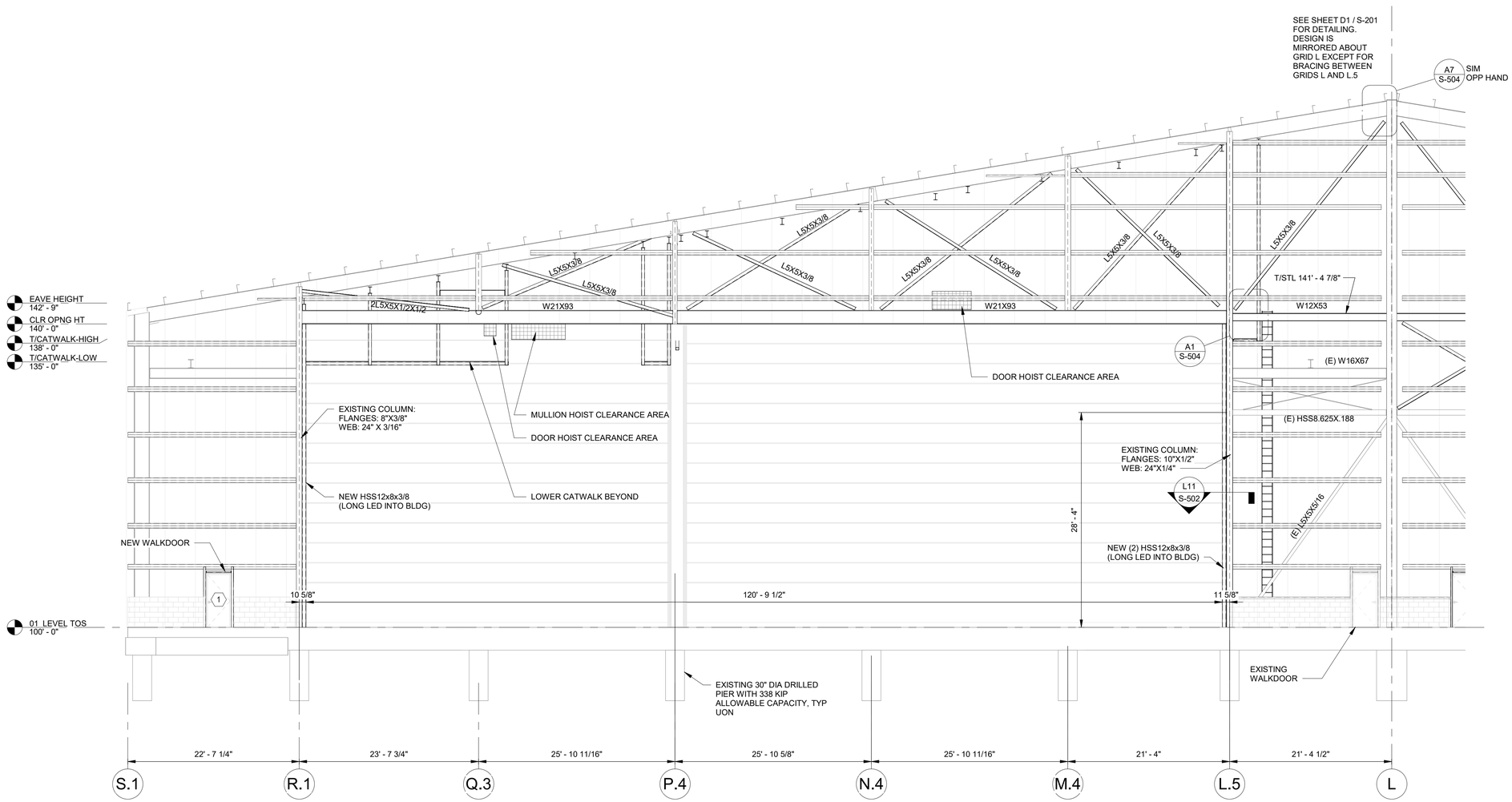

D1 ENLARGED NEW CONSTRUCTION ELEVATION - AREA - HC

1/8" = 1'-0"

FRAMING ELEVATION NOTES

A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.
D. RAILING NOT SHOWN FOR CLARITY

FRAMING ELEVATION KEY NOTES

1. NEW MANDOOR. RE-USE EXISTING OPENING FRAMING FROM DEMOED DOORS. CLEAN AND REFINISH STEEL.

KEY PLAN

HB	HC
HA	HD
A	B

0 48" 96" 192"

SCALE:1/8" = 12"

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CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

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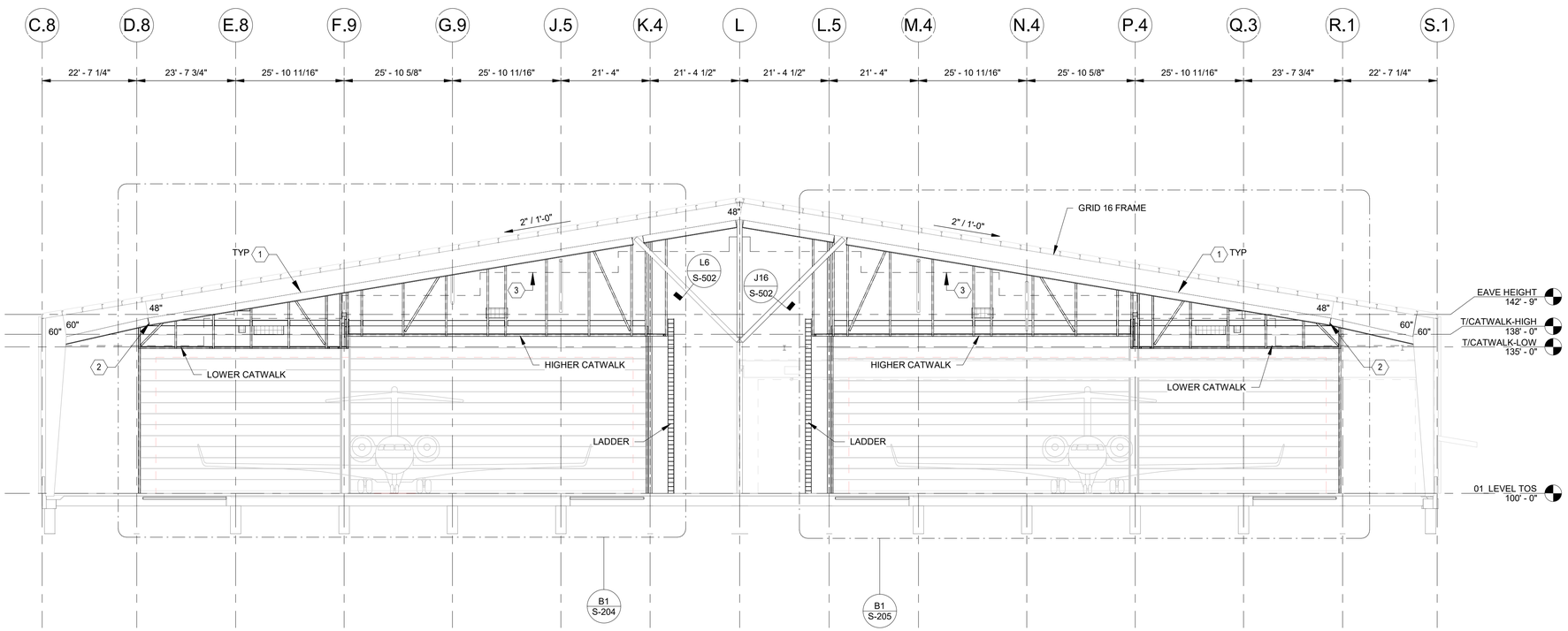
ENLARGED NEW CONSTRUCTION ELEVATION
AREA - HC

SHEET ID

S-202

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion_Ft Hood/S_B90176 Hangar Door Expansion_025-04414_R24.rvt

Plot Date: 5/27/2026 2:49:42 PM



A1 OVERALL INTERIOR FRAMING ELEVATION AREAS HB & HC

1/16" = 1'-0"

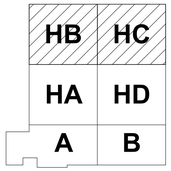
FRAMING ELEVATION NOTES

A. REFER TO DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE ENDS.
D. RAILING NOT SHOWN FOR CLARITY

FRAMING ELEVATION KEY NOTES

1. NEW CONT WT REINFORCING AT FRAME AT GRID 16.
2. PROVIDE FULL PEN BROKE BACK CONNECTION AT CHANGE IN SLOPE
3. RE-ATTACH DRAFT CURTAIN AFTER INSTALLATION OF NEW WT REINFORCING.

KEY PLAN



0 96" 192" 384"

SCALE: 1/16" = 12"

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DRAWN BY: D. FAVAZZA
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SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

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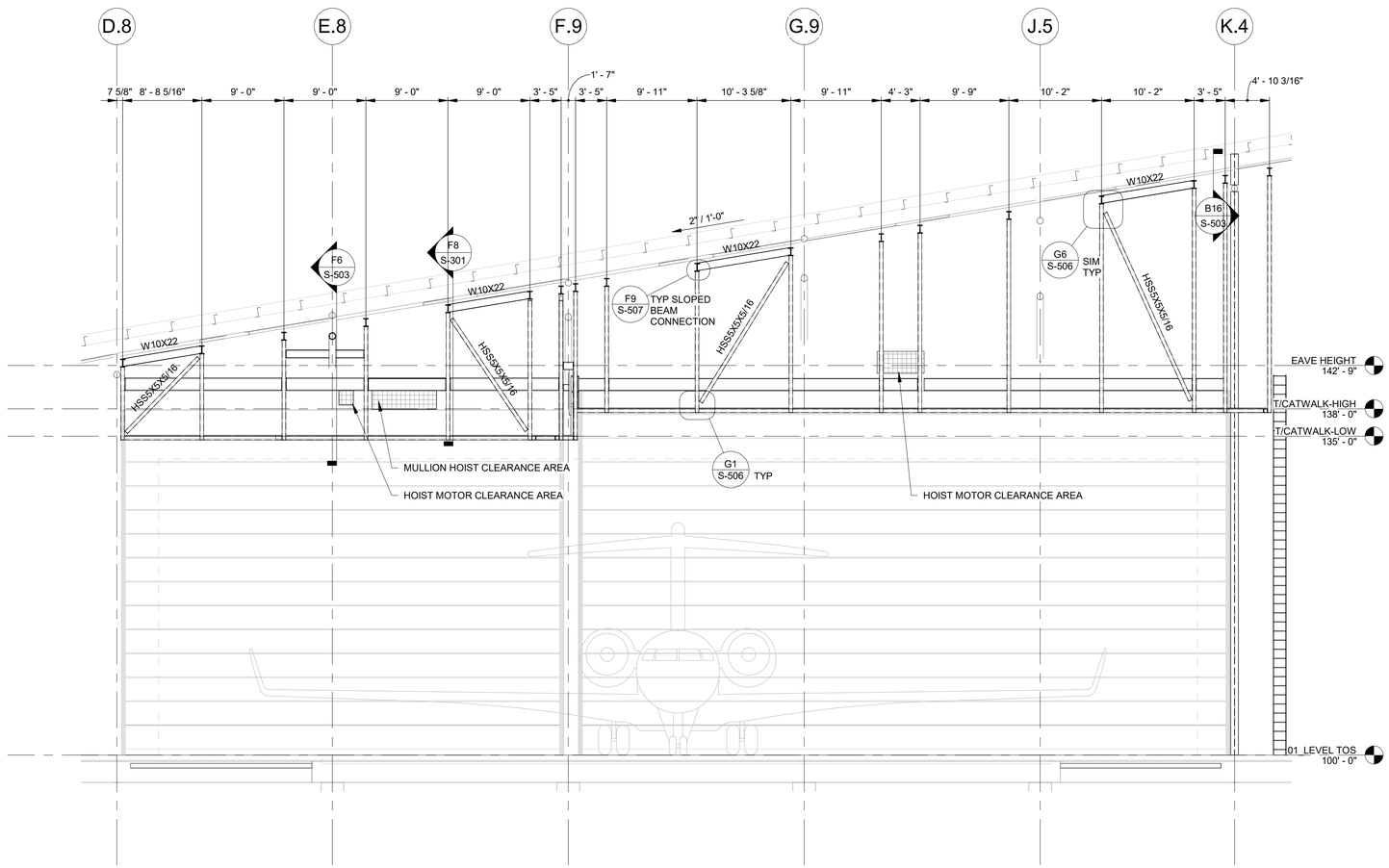
OVERALL INTERIOR FRAMING ELEVATION AREA - HB & HC

SHEET ID

S-203

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion, Ft Hood/S_B90176 Hangar Door Expansion_D25-04414_R24.rvt

Plot Date: 5/27/2026 2:49:42 PM



B1 NEW INTERIOR ELEVATION - AREA HB

1/8" = 1'-0"

FRAMING ELEVATION NOTES

A. RE: DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. SEE FRAMING PLANS FOR EXACT LOCATIONS OF VERTICAL DIAGONAL BRACES.
D. RAILING NOT SHOWN FOR CLARITY

KEY PLAN

HB	HC
HA	HD
A	B

0 48" 96" 192"

SCALE: 1/8" = 12"

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DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

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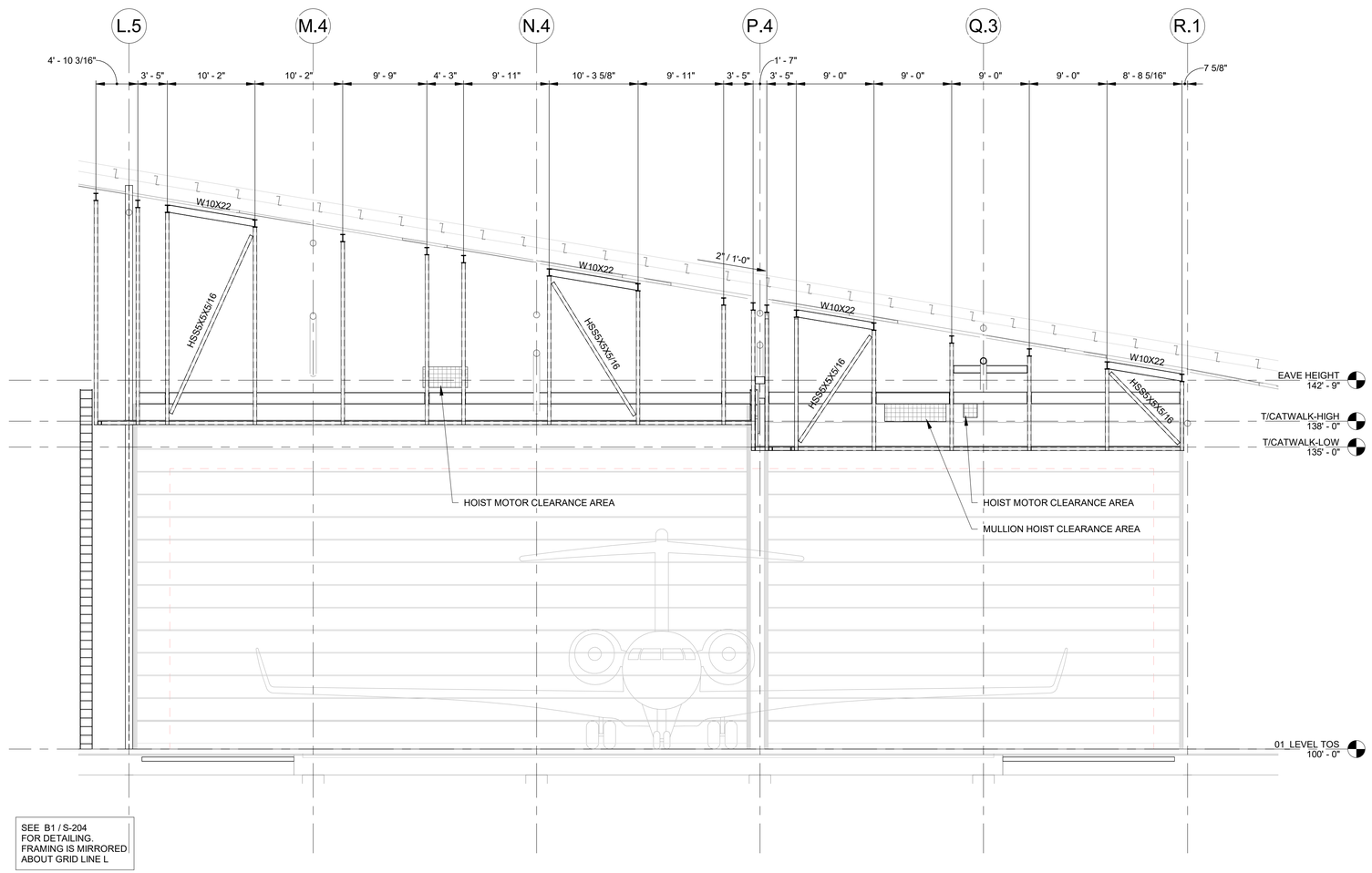
ENLARGED INTERIOR FRAMING ELEVATION - AREA HB

SHEET ID

S-204

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion, Ft Hood/S_B90176 Hanger Door Expansion_D25-04414_R24.rvt

Plot Date: 5/27/2026 2:49:43 PM



SEE B1 / S-204
FOR DETAILING.
FRAMING IS MIRRORED
ABOUT GRID LINE L

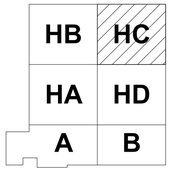
B1 NEW INTERIOR ELEVATION - AREA HC

1/8" = 1'-0"

FRAMING ELEVATION NOTES

A. RE: DRAWINGS S-001 THRU S-002 FOR GENERAL NOTES, DESIGN CRITERIA, AND ABBREVIATIONS.
B. COORDINATE DIMENSIONS, WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DWGS.
C. SEE FRAMING PLANS FOR EXACT LOCATIONS OF VERTICAL DIAGONAL BRACES.
D. RAILING NOT SHOWN FOR CLARITY

KEY PLAN



0 48" 96" 192"

SCALE:1/8" = 12"

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DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
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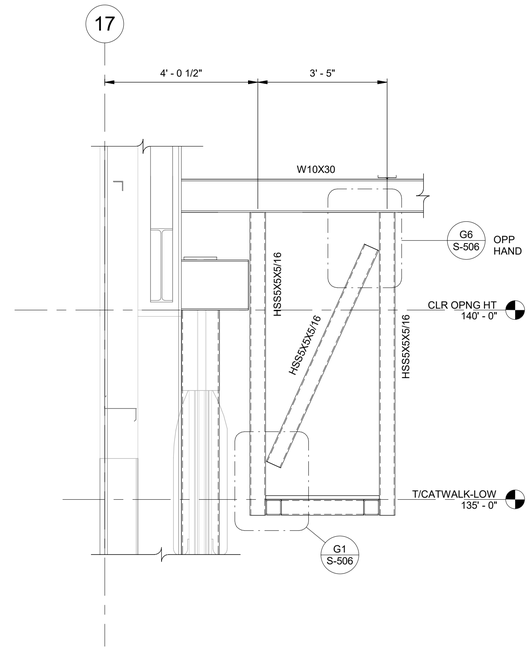
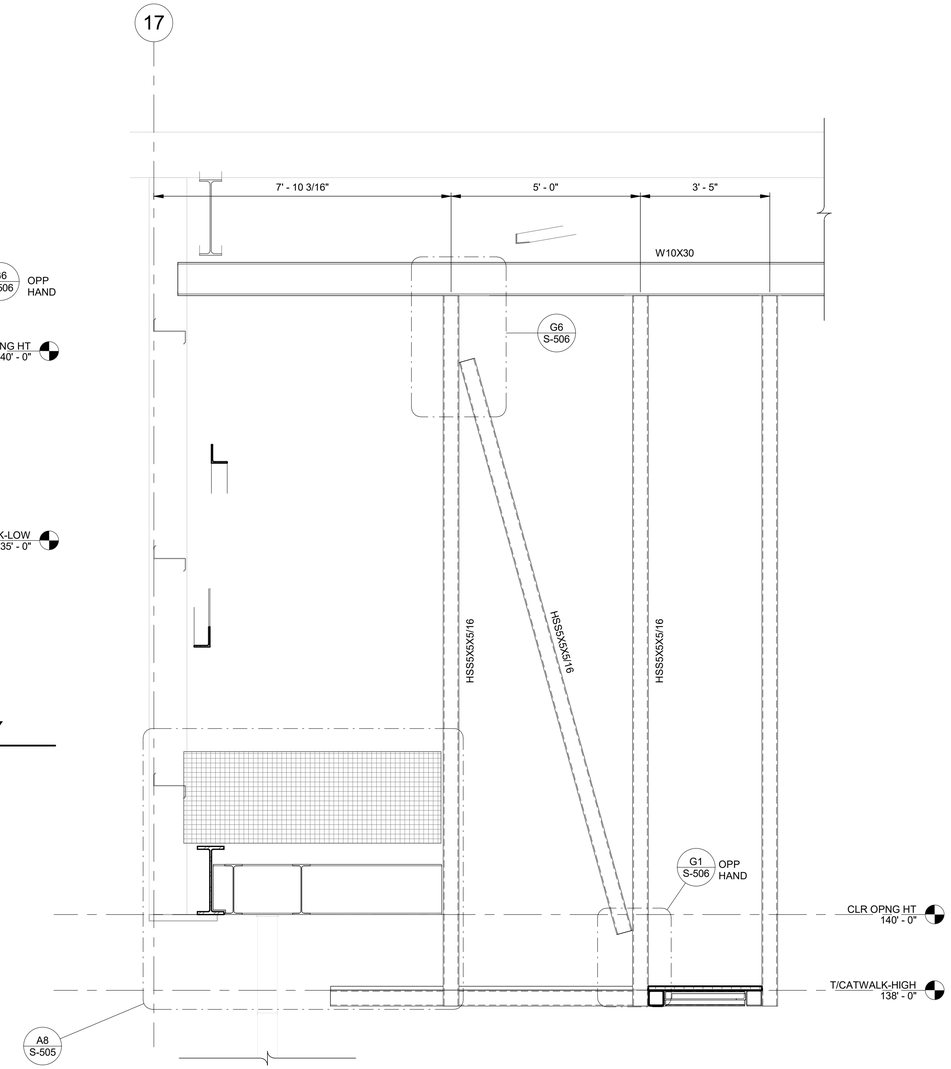
ENLARGED INTERIOR FRAMING ELEVATION-
AREA HC

SHEET ID

S-205



H8 LOW CATWALK BRACE BAY
1/2" = 1'-0"



D13 HIGH CATWALK BRACED BAY
1/2" = 1'-0"

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Plot Date: 5/27/2026 2:49:44 PM

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

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FORT WORTH DISTRICT
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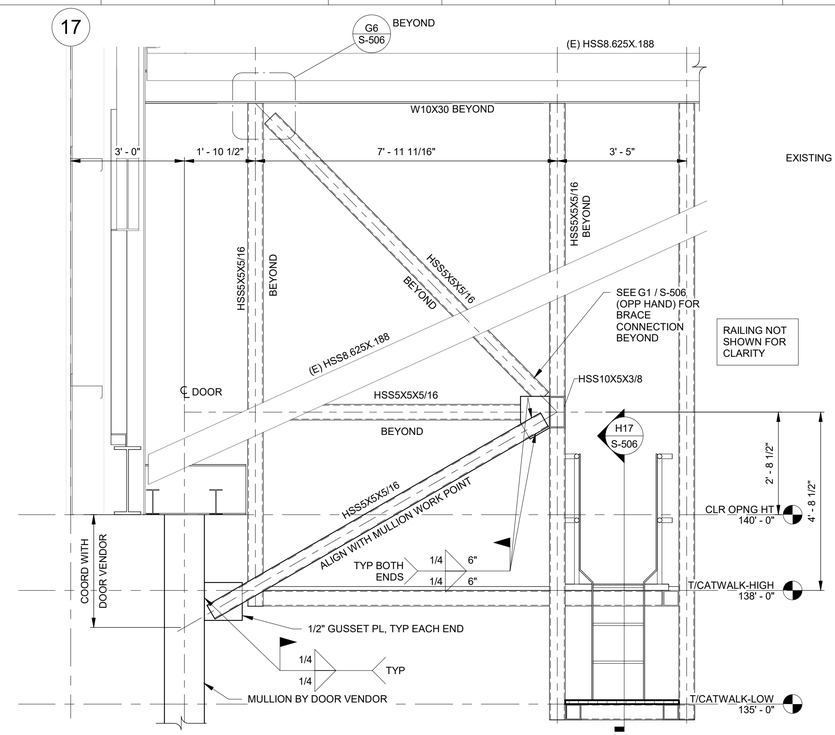
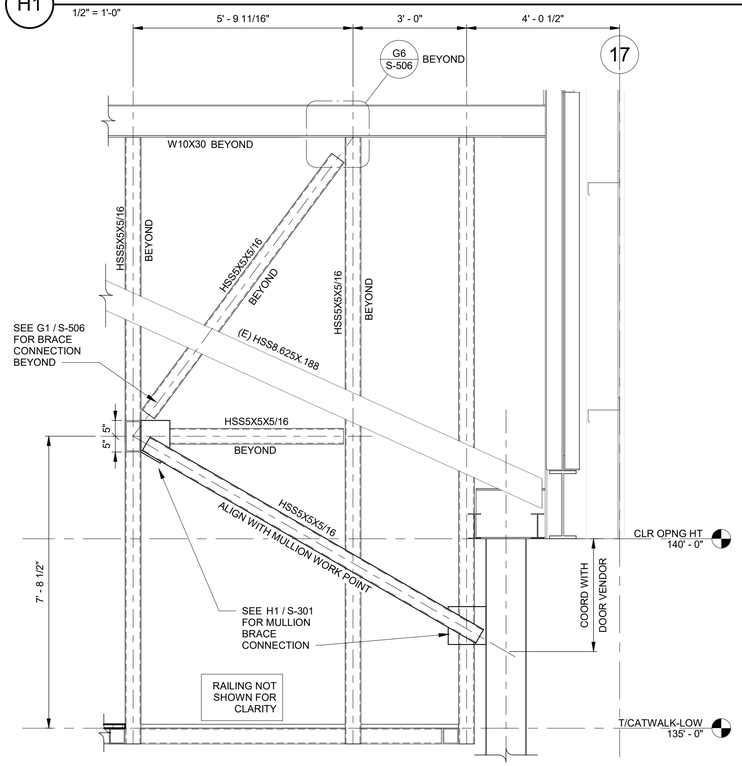
NEW CATWALK FRAMING ELEVATIONS AND SECTION

SHEET ID
S-206



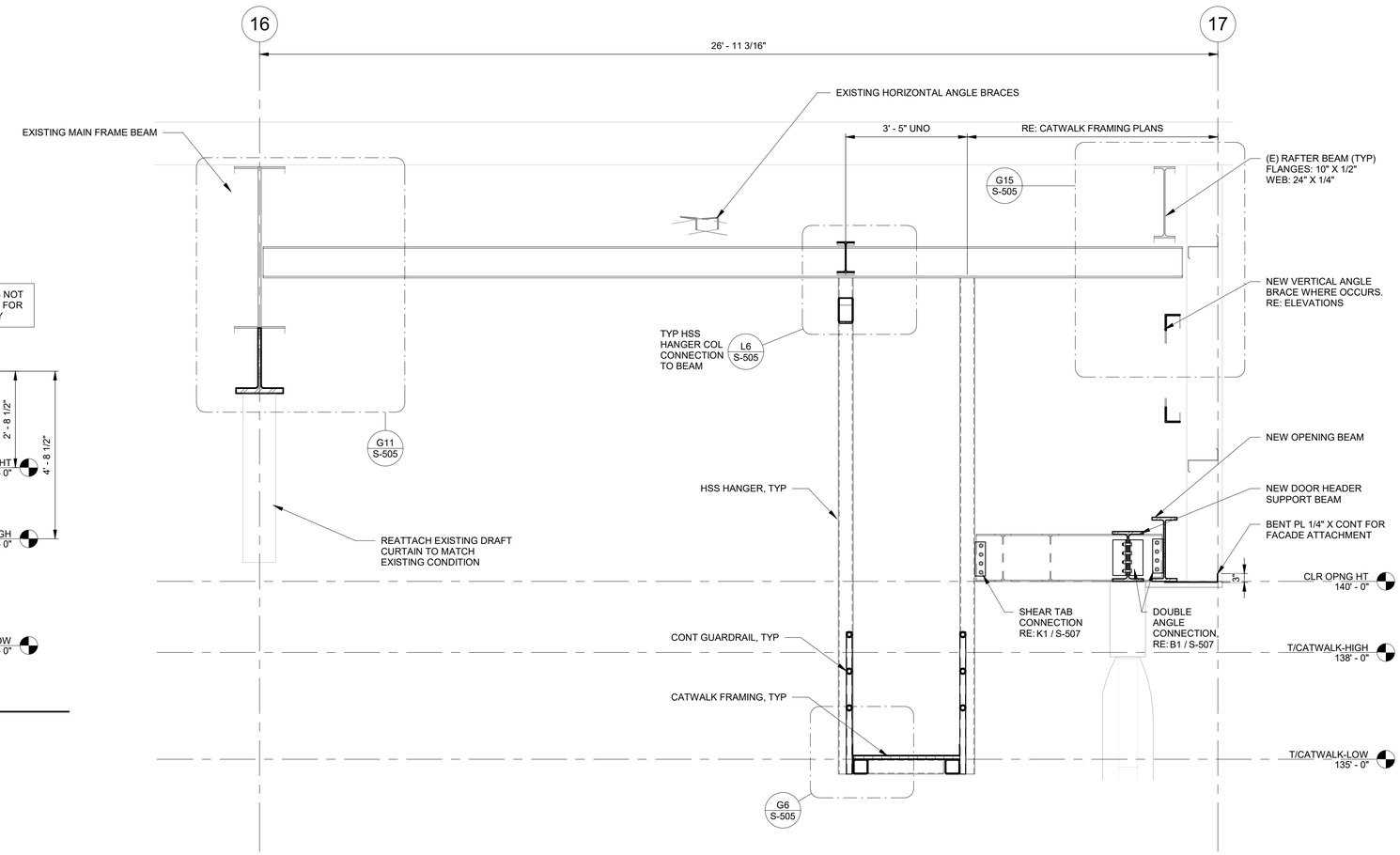
H1 MULLION BRACE ELEVATION AT HIGH CATWALK

1/2" = 1'-0"



A1 MULLION BRACE ELEVATION AT LOW CATWALK

1/2" = 1'-0"



F8 TYPICAL CATWALK SECTION

1/2" = 1'-0"

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MARK	DESCRIPTION	DATE

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STRUCTURAL SECTIONS

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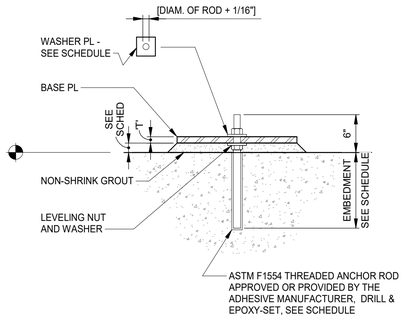
S-301

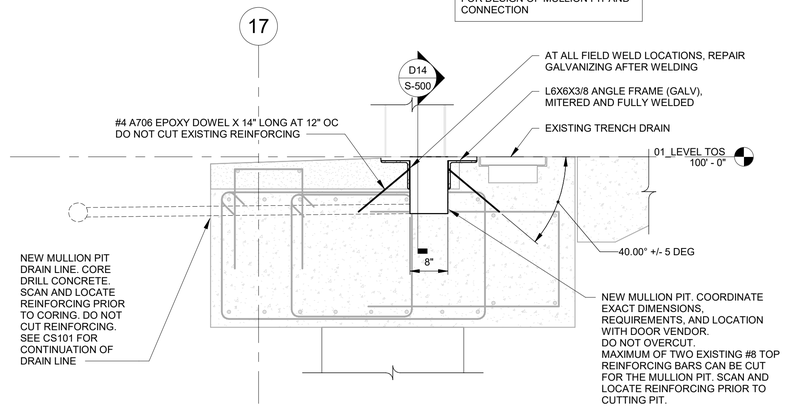


NOTES:
1. DETAIL IS REPRESENTATIVE ONLY.
2. DO NOT USE ADHESIVE INSTALLED ANCHOR FOR CAST-IN-PLACE FOR REPAIRS UNLESS APPROVED BY EOR FOR EACH INSTANCE.
3. WASHER PLATE NOT REQUIRED IF BASE PLATE ANCHOR ROD HOLES ARE STANDARD HOLES [DIAM. OF ROD + 1/16"].

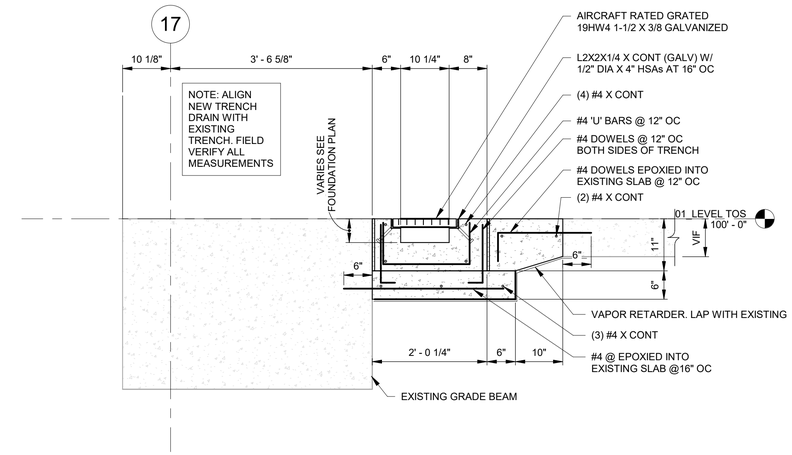
TYPICAL EPOXY ANCHOR ROD DETAIL

K1 TYPICAL EPOXY ANCHOR DETAIL
NTS

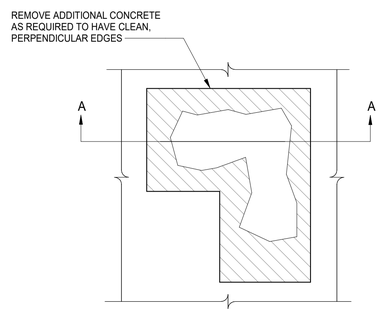
NOTE: MAXIMUM VERTICAL SERVICE LOAD DEFLECTION OF STRUCTURE ABOVE DOOR IS 2" FOR DESIGN OF MULLION PIT AND CONNECTION



K5 SECTION AT MULLION PIT
3/4" = 1'-0"

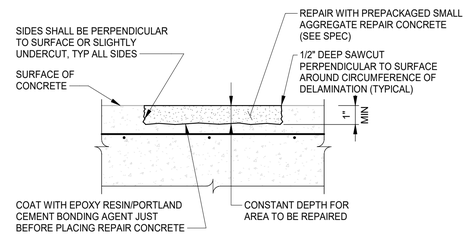


K14 SECTION AT NEW TRENCH DRAIN
NTS

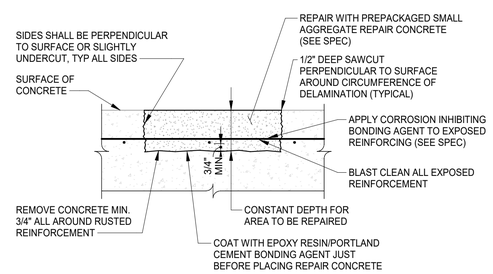


PLAN

NOTES:
1. SAW CUT EDGES OF AREA WHERE CONCRETE WILL BE REMOVED A MINIMUM OF 1/2" DEEP. DO NOT CUT REINFORCING BARS. DO NOT CUT PAST OUTSIDE CORNERS.
2. CHIP OUT DAMAGED OR DEFECTIVE CONCRETE WITH HAND HELD PNEUMATIC CHIPPING GUN. DO NOT CUT OR DAMAGE REINFORCING BARS.
3. IF MORE THAN 1/3 OF BAR DIAMETER IS EXPOSED REMOVING DAMAGED OR DEFECTIVE CONCRETE, REMOVE ADDITIONAL CONCRETE TO A MINIMUM 1" BEHIND BARS.
4. CONCRETE SURFACES TO BE REPAIRED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
5. CONCRETE IN REPAIR AREA TO BE REPAIRED SHALL BE SATURATED AND SURFACE DAMP WHEN REPAIR CONCRETE IS PLACED.
6. FOR THE REPAIR OF VERTICAL CONCRETE SURFACES, SLOPE TOP SURFACE OF CHIPPED OUT AREA SLIGHTLY TOWARD FORMS TO ALLOW AIR TO ESCAPE DURING PLACEMENT OF REPAIR CONCRETE.
7. WATER CURE REPAIRED CONCRETE FOR MINIMUM OF 7 DAYS. KEEP REPAIRED AREA CONTINUOUSLY MOIST.
8. FOLLOW MANUFACTURER INSTRUCTIONS FOR REPAIR MATERIALS.

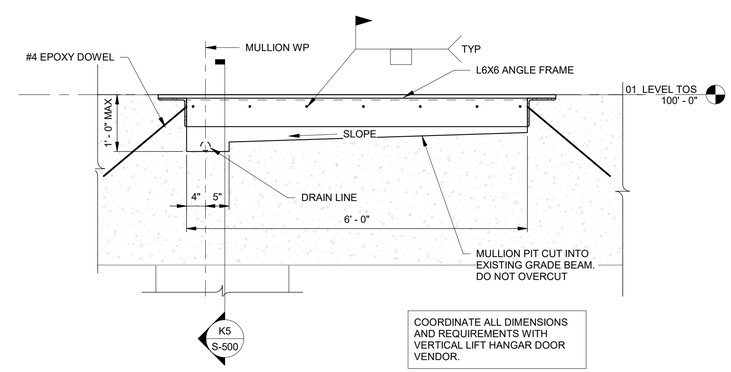


SECTION A-A IF NO REBAR IS EXPOSED



SECTION A-A IF REBAR IS EXPOSED

D5 TYPICAL CONCRETE SURFACE REPAIR DETAIL
NTS



COORDINATE ALL DIMENSIONS AND REQUIREMENTS WITH VERTICAL LIFT HANGAR DOOR VENDOR.

D14 MULLION SECTION
3/4" = 1'-0"

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

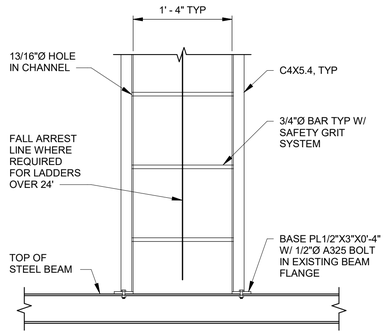
CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

CONCRETE DETAILS

SHEET ID
S-500

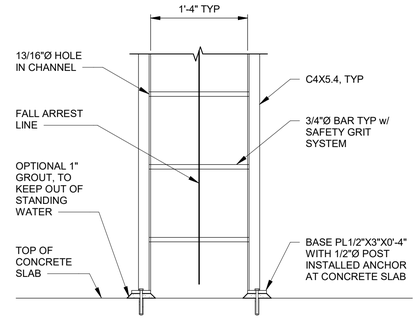
File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion_Ft Hood/S_B90176 Hangar Door Expansion_025-04414_R24.rvt
Plot Date: 5/27/2026 2:49:45 PM



NOTE: PROVIDE PERSONAL FALL ARREST STSTEM FOR LADDERS ABOVE 24'.

K1 TYP BOT. LADDER CONN. TO STEEL DETAIL

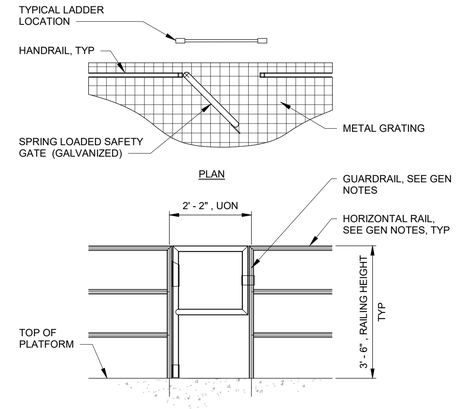
NTS



NOTE: PROVIDE PERSONAL FALL ARREST STSTEM FOR LADDER.

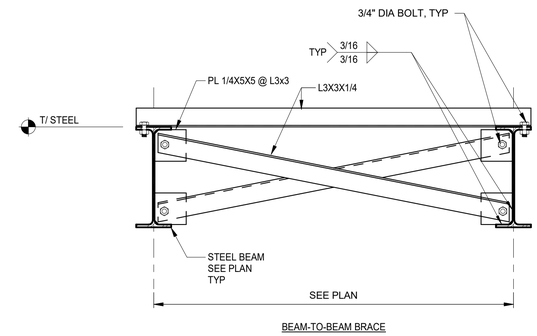
K7 TYP BOT. LADDER CONN. DETAIL

NTS



K11 TYP SAFETY GATE DETAIL

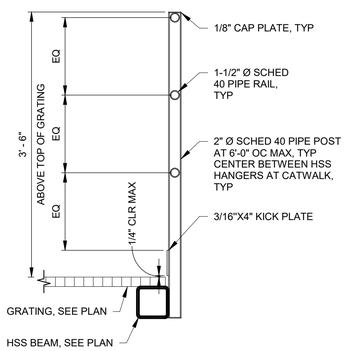
NTS



NOTES:
1. SEE PLAN FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF 1/4" CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.
3. BRACE SIZES SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLAN.

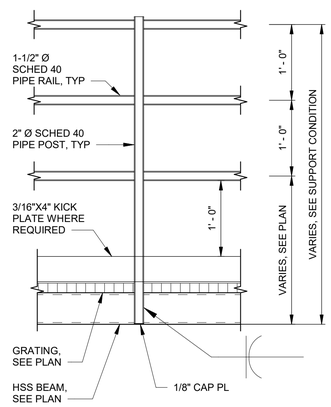
K16 BEAM BOTTOM FLANGE BRACE DETAIL

NTS



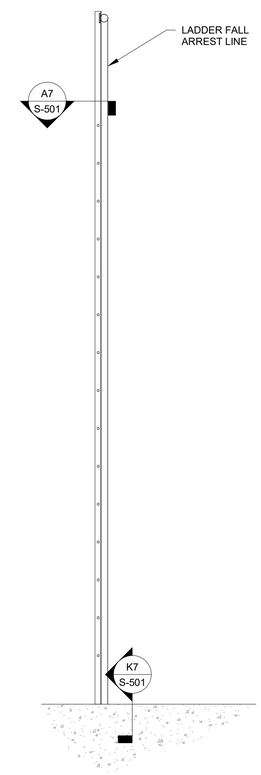
E1 TYP PERMANENT GUARDRAIL DETAIL

NTS



E7 TYP GUARDRAIL DETAIL

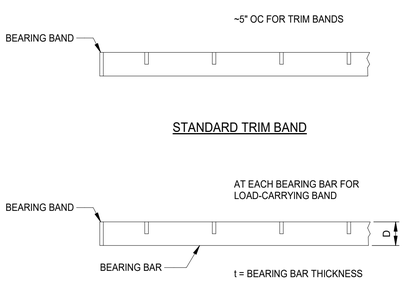
NTS



NOTE:
1. PROVIDE PERSONAL FALL ARREST SYSTEM IF LADDER HEIGHT IS GREATER THAN 24 FEET.
2. LADDER TO EXTEND A MINIMUM OF 42" ABOVE LANDING LEVEL.
3. PROVIDE LADDERS PER OSHA REQUIREMENTS

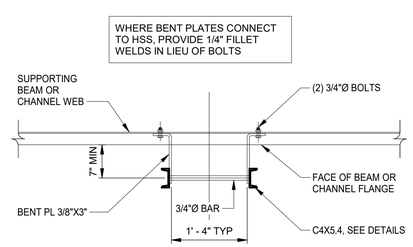
A12 TYP LADDER ELEVATION

NTS



A1 TYP GRATING WELD DETAILS

NTS



A7 TYP TOP LADDER CONN. DETAIL

NTS

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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

TYPICAL STRUCTURAL DETAILS

SHEET ID

S-501

STATE OF TEXAS 05/28/2026 WESTON McCANN 115262 LICENSED PROFESSIONAL ENGINEER

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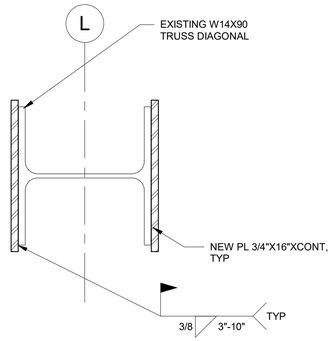
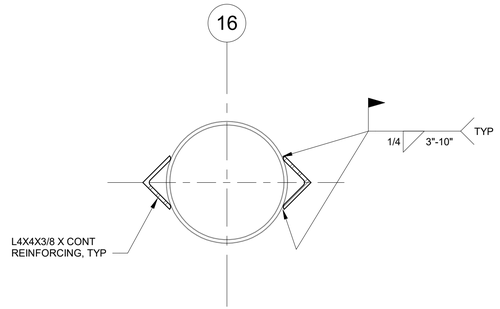
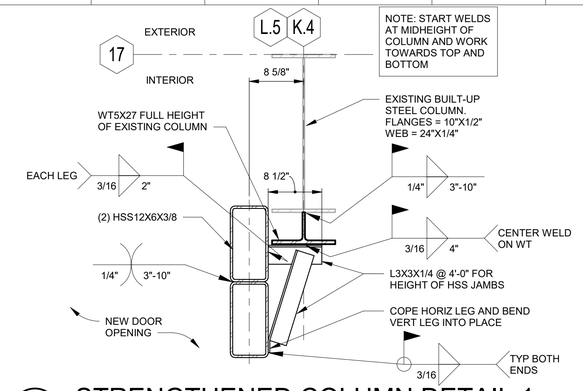


L1 TRUSS END BAY DIAGONAL REINF
1 1/2" = 1'-0"



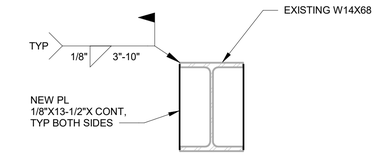
L6 GRID 16 PIPE KICKER REINFORCING
1 1/2" = 1'-0"



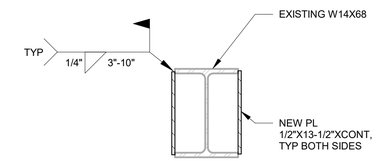
L11 STRENGTHENED COLUMN DETAIL 1
1" = 1'-0"

DETAIL SHEET NOTES

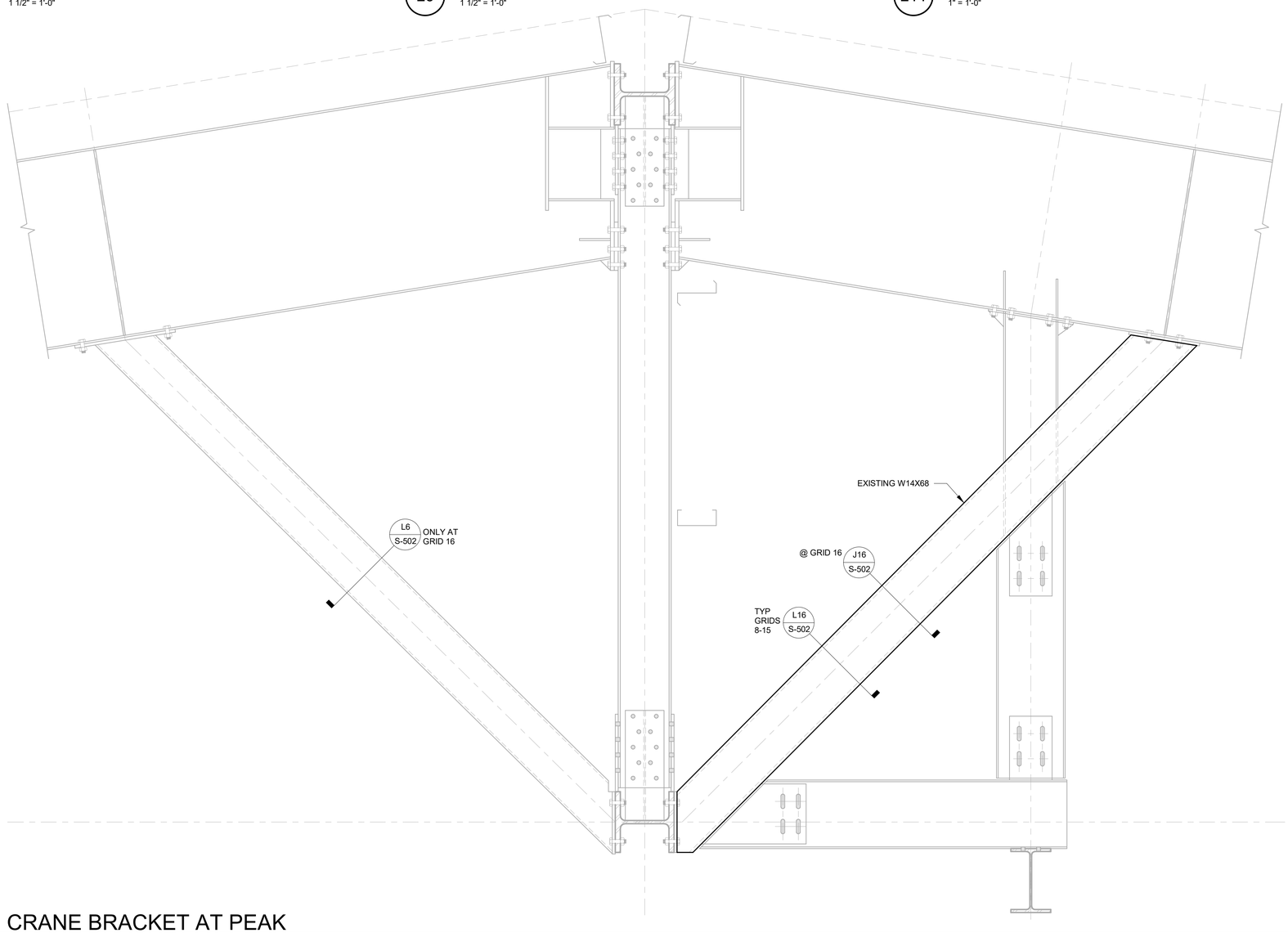
A. WHEN STRENGTHENING EXISTING MEMBERS, THE CONTRACTOR SHALL BEGIN THE WELD OPERATIONS AT THE CENTER OF THE MEMBER AND WORK TOWARD THE END



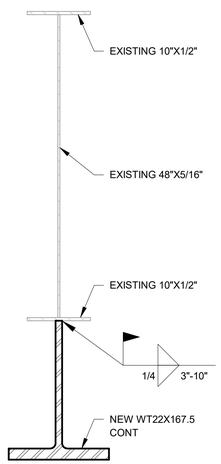
L16 TYP CRANE BRACKET SUPPORT
1" = 1'-0"



J16 GRID 16 KICKER REINFORCING
1" = 1'-0"



A1 CRANE BRACKET AT PEAK
3/4" = 1'-0"



C16 ROOF BEAM SUPPORT
1" = 1'-0"

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WESTON McCANN
115262
LICENSED
PROFESSIONAL ENGINEER
05/28/2026

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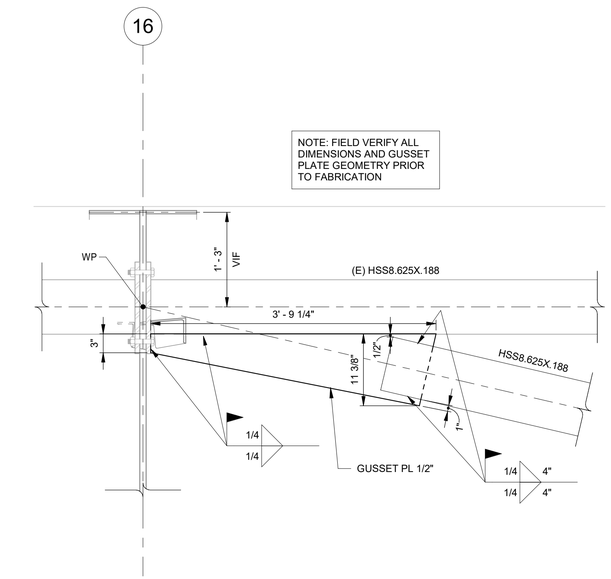
STRUCTURAL DETAILS

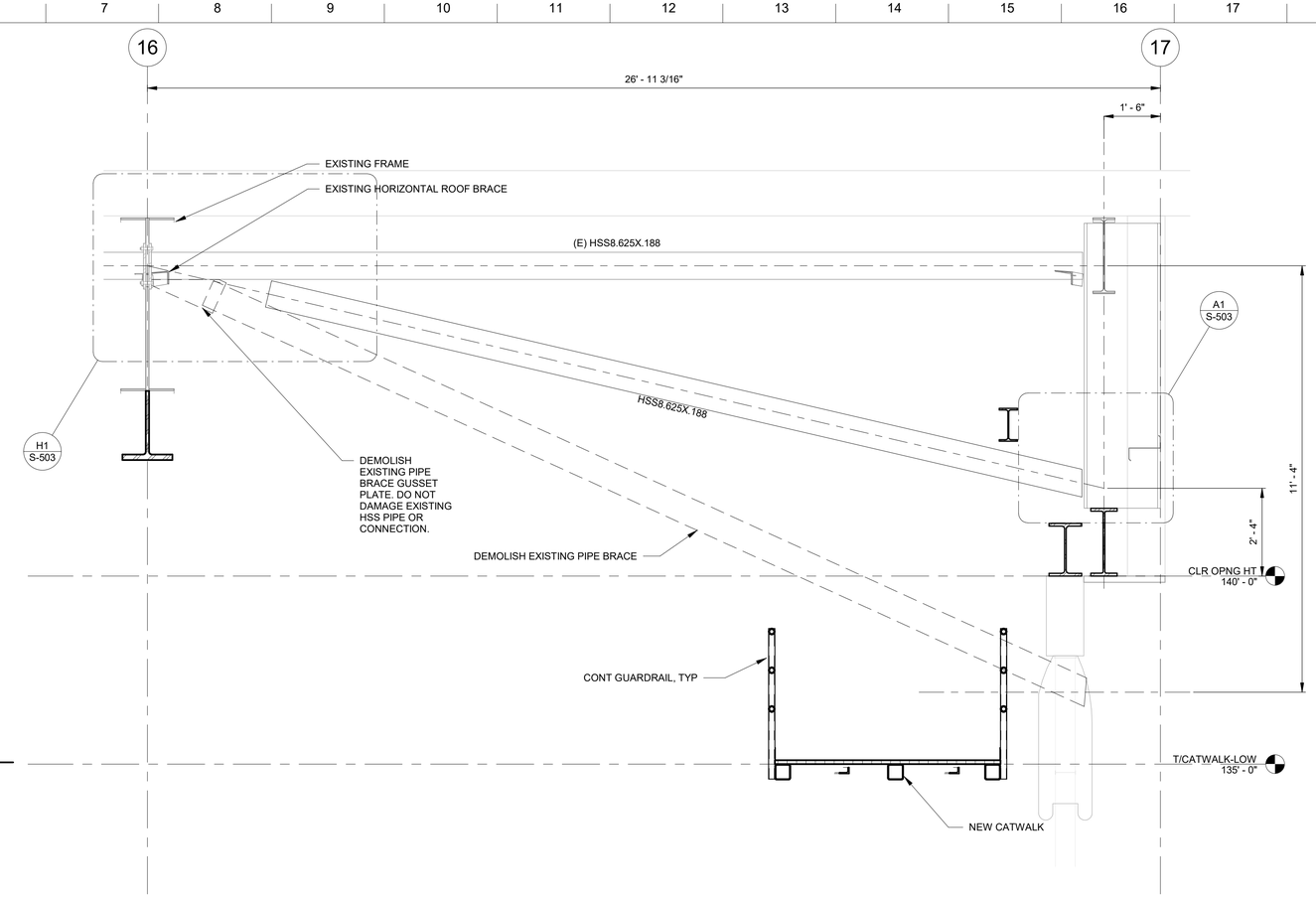
SHEET ID

S-502



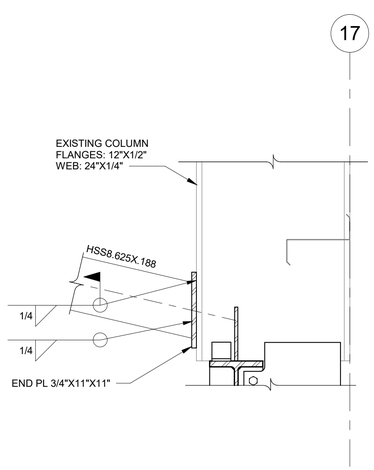
H1 NEW KICKER BRACE AT GRID 16

1" = 1'-0"



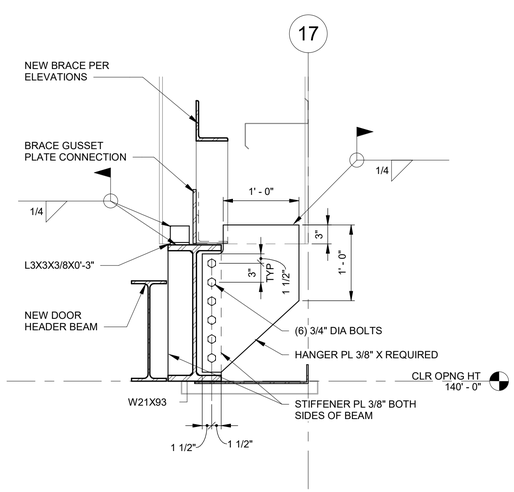
F6 NEW KICKER BRACE AT GRIDS E.8 AND Q.3

1/2" = 1'-0"



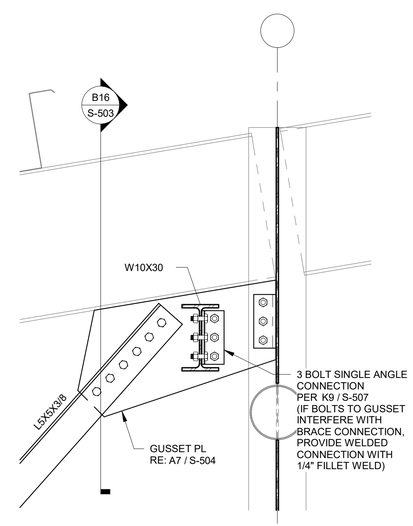
A1 NEW KICKER BRACE AT GRID 17

1" = 1'-0"



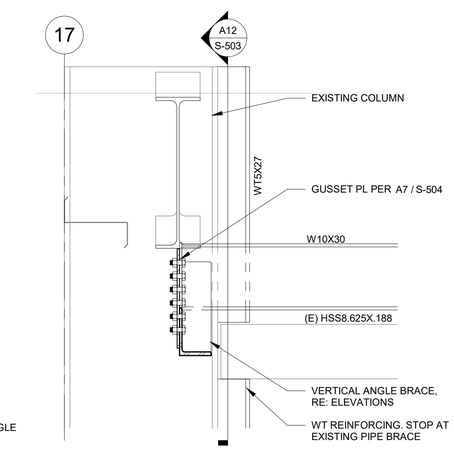
A6 TYP (E) COLUMN CONNECT TO NEW BEAM

1" = 1'-0"



A12 W10 BEAM AT GUSSET PL

1" = 1'-0"



B16 W10 BEAM SUPPORT AT GUSSET PL

1" = 1'-0"

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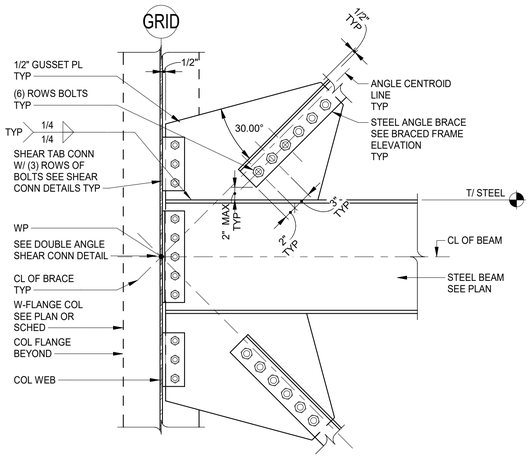
STRUCTURAL DETAILS

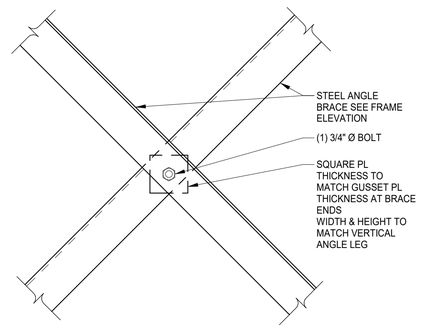
SHEET ID

S-503

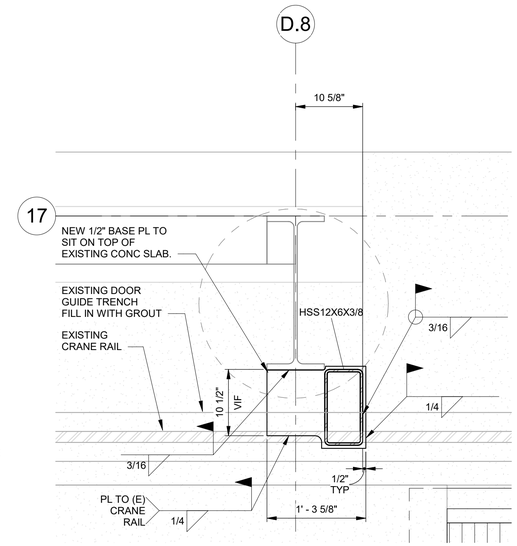


NOTES:
1. ALL BOLTS AT BRACE & GUSSET PL SHALL BE 1"Ø, CONFORMING TO ASTM F3125, GRADE A325-N, AND FULLY-PRETENSIONED. ASTM F1852 'TWIST-OFF' BOLTS MAY BE PROVIDED AT CONTRACTOR'S OPTION. BOLT HOLES SHALL BE STANDARD IN BEAM AND OVERSIZED IN ANGLES AND WEB PLATES. ALL FAYING SURFACES SHALL BE SLIP-CRITICAL CLASS 'A'.
2. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01

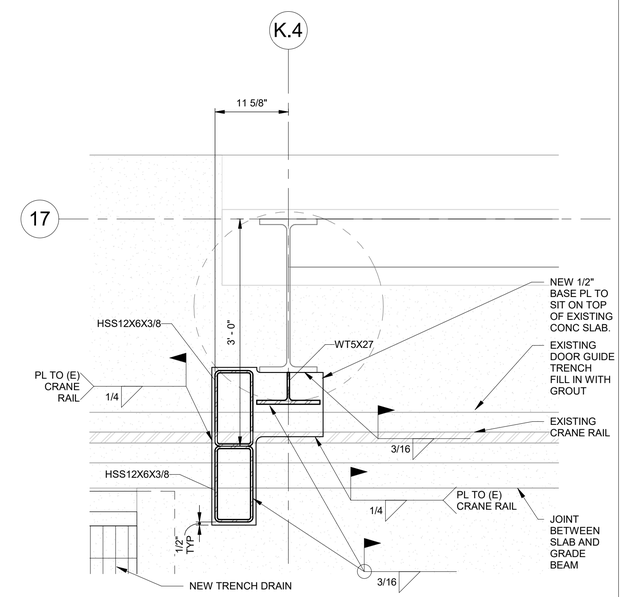
H1 ANGLE BRACE ABOVE & BELOW CONNECTION
NTS



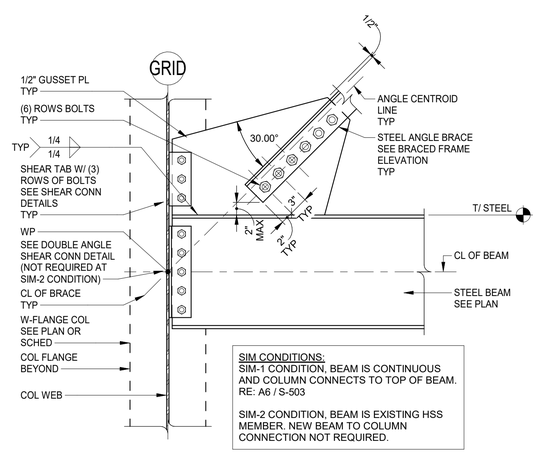
H7 BRACING SPACER PLATE DTL
NTS



H11 JAMB DTL AT GRIDS D.8 AND R.1
1" = 1'-0"



H15 JAMB DTL GRIDS K.4 AND L.5
1" = 1'-0"

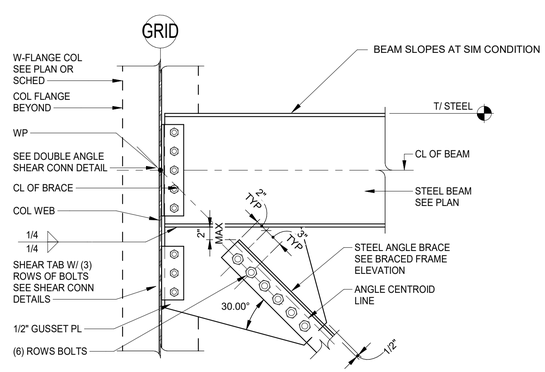


SIM CONDITIONS:
SIM-1 CONDITION, BEAM IS CONTINUOUS AND COLUMN CONNECTS TO TOP OF BEAM. RE: A6 / S-503

SIM-2 CONDITION, BEAM IS EXISTING HSS MEMBER. NEW BEAM TO COLUMN CONNECTION NOT REQUIRED.

NOTES:
1. ALL BOLTS AT BRACE & GUSSET PL SHALL BE 1"Ø, CONFORMING TO ASTM F3125, GRADE A325-N, AND FULLY-PRETENSIONED. ASTM F1852 'TWIST-OFF' BOLTS MAY BE PROVIDED AT CONTRACTOR'S OPTION. BOLT HOLES SHALL BE STANDARD IN BEAM AND OVERSIZED IN ANGLES AND WEB PLATES. ALL FAYING SURFACES SHALL BE SLIP-CRITICAL CLASS 'A'.
2. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01

A1 ANGLE BRACE ABOVE CONNECTION
1" = 1'-0"



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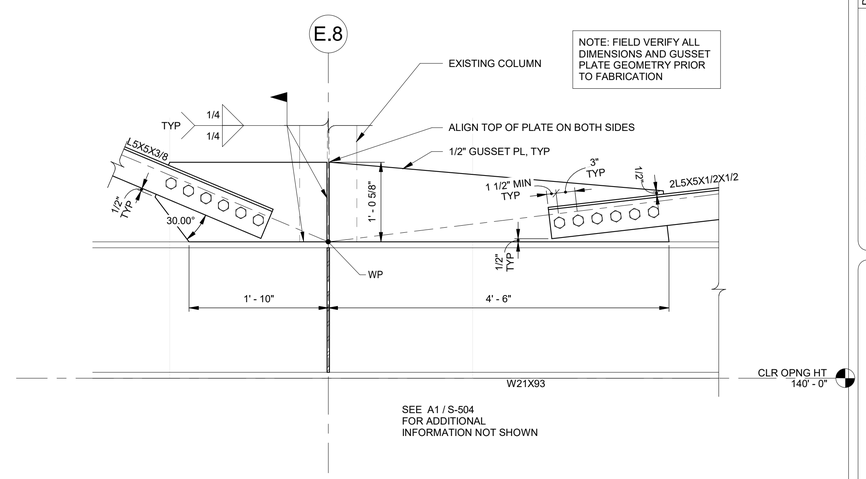
A7 ANGLE BRACE BELOW CONNECTION
NTS



SEE A1 / S-504 FOR ADDITIONAL INFORMATION NOT SHOWN

C14 BRACE CONNECTION WP TOP OF BEAM
1" = 1'-0"

STATE OF TEXAS — WESTON McCANN — 115262 — LICENSED PROFESSIONAL ENGINEER — 5/27/2026

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STRUCTURAL DETAILS

SHEET ID
S-504

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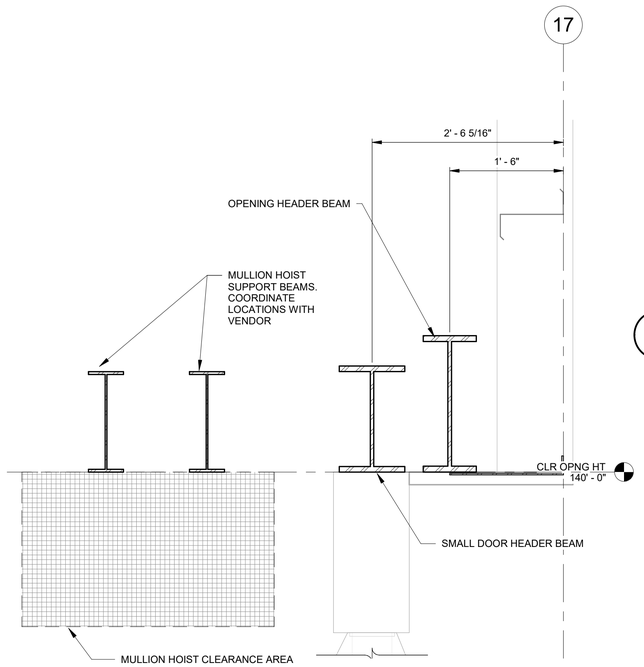
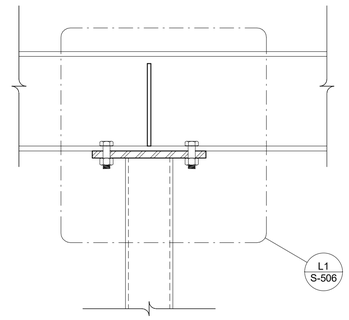
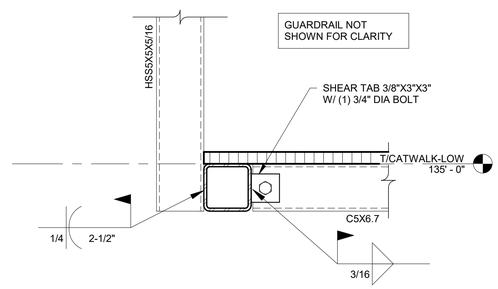


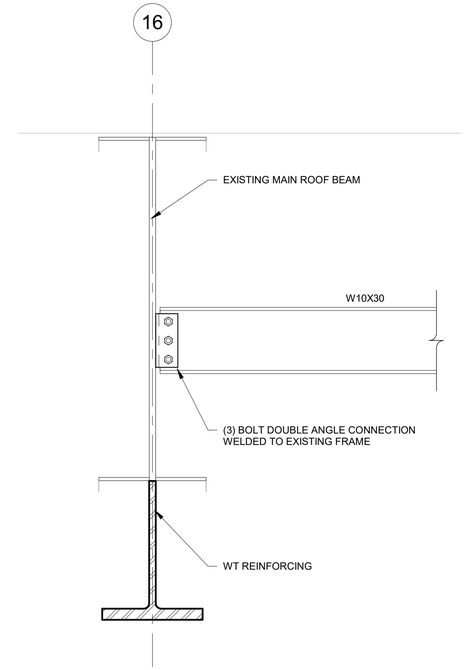
G1 SECTION AT MULLION HOIST
1" = 1'-0"



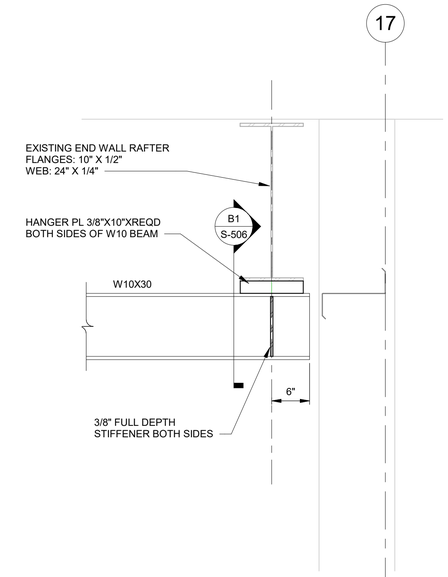
L6 TYP HANGER CONNECTION
1 1/2" = 1'-0"



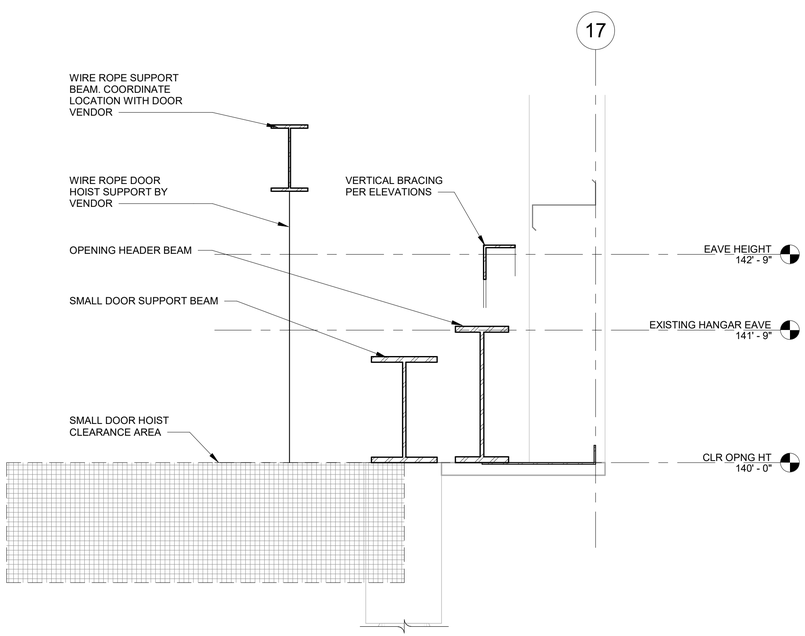
G6 TYP CATWALK CONN TO HANGER
1 1/2" = 1'-0"



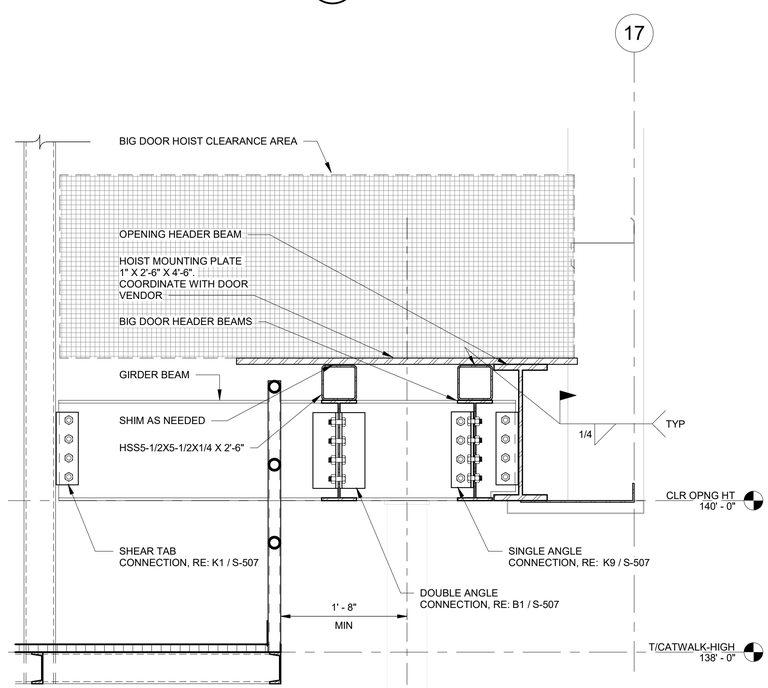
G11 TYP ROOF BEAM CONN AT GRID 16
1" = 1'-0"



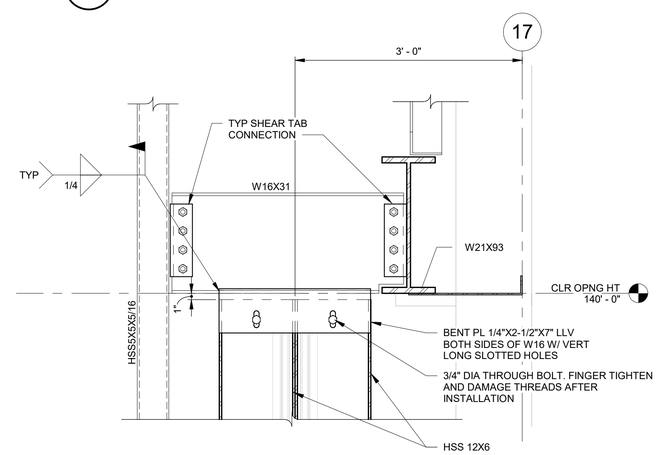
G15 TYP ROOF BEAM CONN AT RAFTER BEAM
1" = 1'-0"



A1 SECTION AT SMALL DOOR HOIST
1" = 1'-0"



A8 SECTION AT BIG DOOR HOIST
1" = 1'-0"



C15 SECTION AT TOP OF JAMB
1" = 1'-0"

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MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion, Ft Hood/S_B90176 Hanger Door Expansion_025-04414_R24.rvt

Plot Date: 5/27/2026 2:49:48 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

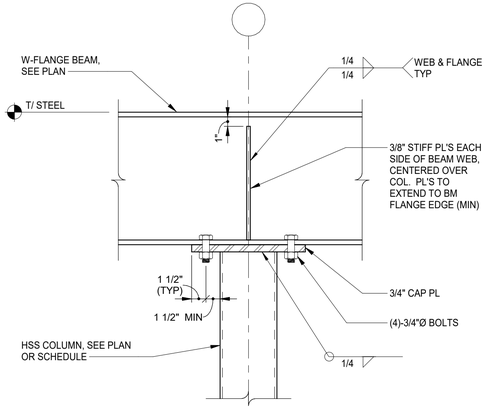
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

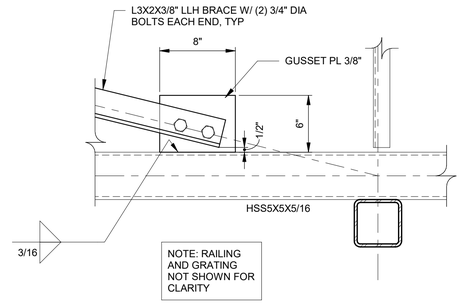
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

STRUCTURAL DETAILS

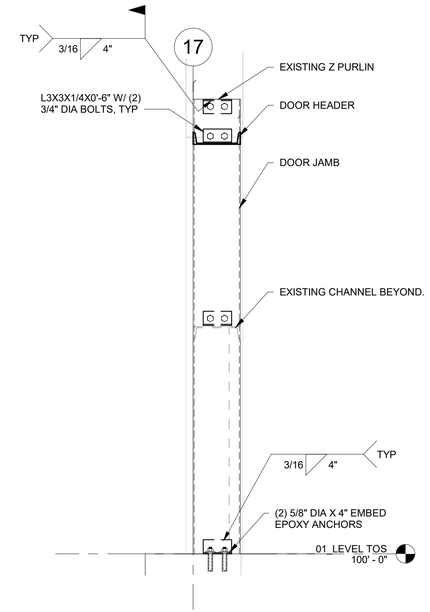
SHEET ID
S-505



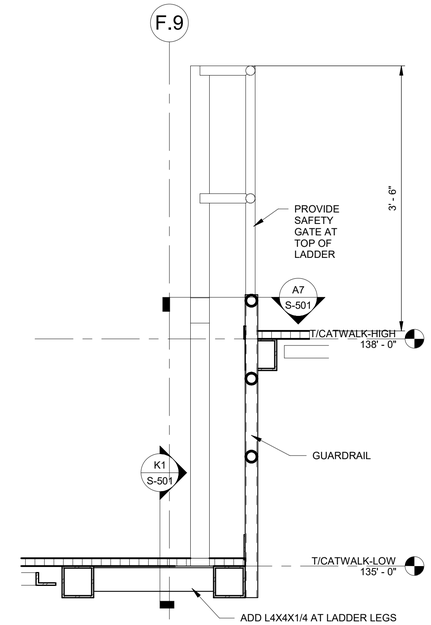
L1 TYP HSS COL HANGING FROM BEAM
NTS



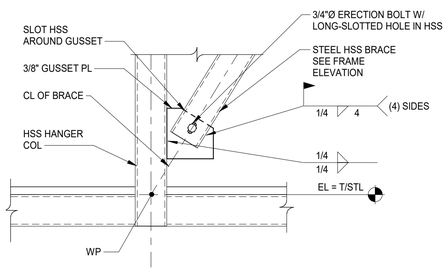
L6 TYP CATWALK HORIZ BRACE CONN
NTS



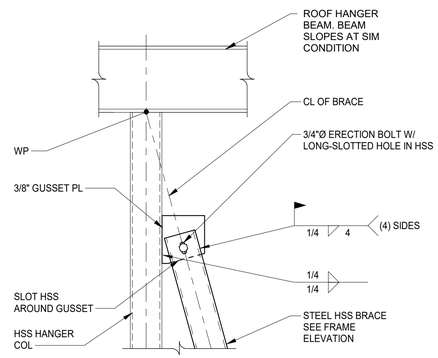
H12 TYPICAL MAN DOOR FRAMING
NTS



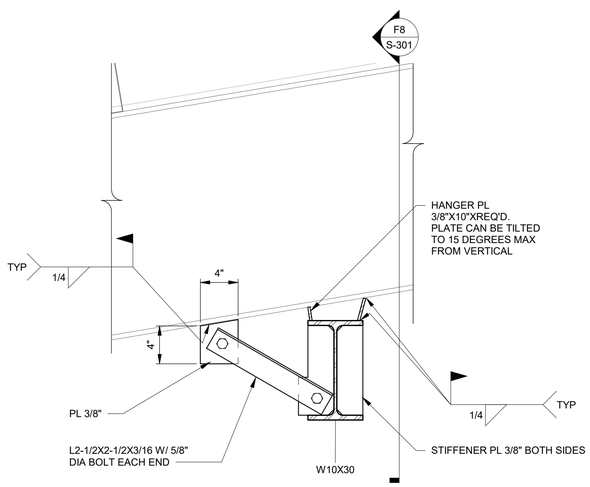
H17 SECTION AT LADDER
1" = 1'-0"



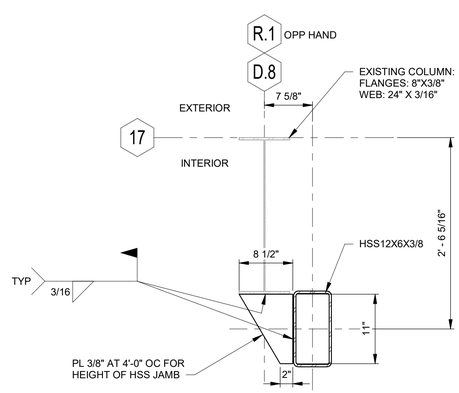
G1 HSS BRACE CONNECT DTL BOTTOM
1" = 1'-0"



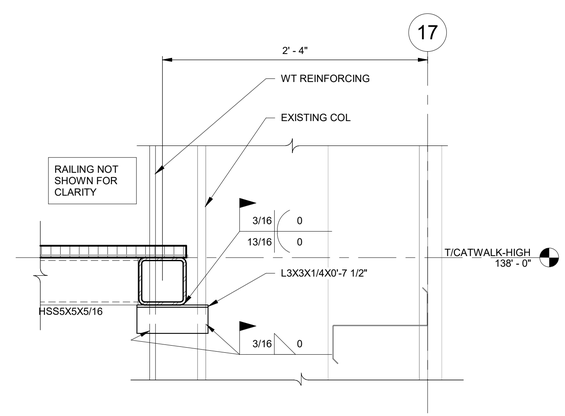
G6 HSS BRACE CONNECTION TOP
1" = 1'-0"



B1 W10 BEAM HANGER CONNECT AT GRID 17
1 1/2" = 1'-0"



B7 JAMB DETAIL
1" = 1'-0"



B12 CATWALK HSS TO COL CONNECTION
1 1/2" = 1'-0"

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
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CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

STRUCTURAL DETAILS

SHEET ID
S-506

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hanger Door Expansion, Ft Hood/S_B90176 Hanger Door Expansion_D25-04414_R24.rvt
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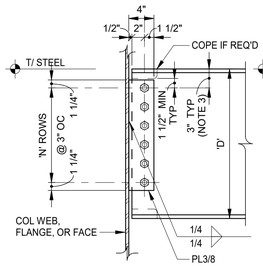
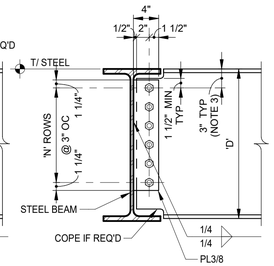


TYPICAL CONNECTION AT COLUMNS



TYPICAL CONNECTION AT BEAMS

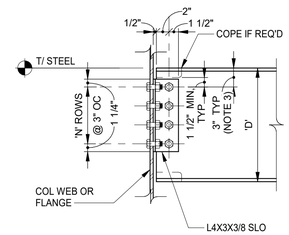
CONNECTION SCHEDULE	
NOMINAL BEAM SIZE 'D'	NUMBER OF BOLT ROWS 'N'
W8, C8, C9, W10, C10	2
W12, C12, W14	3
C15, W16	4
W18	5
W21, W24	6
W27	7
W30	8
W33	9
W36, W40, W44	10

NOTES:

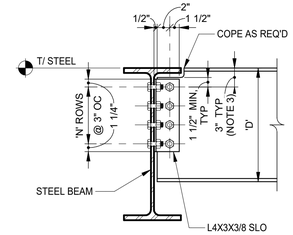
1. PROVIDE SINGLE PL CONNECTIONS AT ALL BEAM TO COLUMN AND GIRDER CONNECTIONS, UNLESS OTHERWISE NOTED.
2. ALL BOLTS SHALL BE 3/4"Ø, CONFORMING TO ASTM F3125, GRADE A325-N. BOLT HOLES SHALL BE STANDARD IN BEAM WEB AND HORIZ. SHORT-SLOTTED IN PLATES.
3. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01.
4. MIN. EDGE DISTANCE FROM TOP OR BOTTOM BOLT TO A COPE SHALL BE 1 1/2". WHERE DEEP COPES ARE REQUIRED, INCREASE DISTANCE FROM TOP OF BEAM TO CL OF TOP BOLT.

K1 TYPICAL SINGLE PLATE SHEAR TAB W/ 3/4"Ø BOLTS

NTS



TYPICAL CONNECTION AT COLUMNS

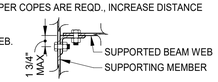


TYPICAL CONNECTION AT BEAMS

CONNECTION SCHEDULE	
NOMINAL BEAM SIZE 'D'	NUMBER OF BOLT ROWS 'N'
W8, C8, C9, W10, C10	2
W12, C12, W14	3
C15, W16	4
W18	5
W21, W24	6
W27	7
W30	8
W33	9
W36, W40, W44	10

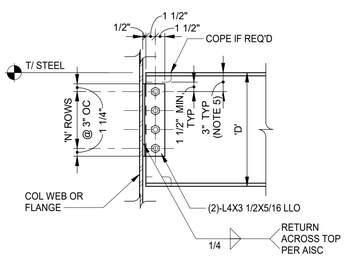
NOTES:

1. PROVIDE SINGLE ANGLE CONNECTIONS AT ALL BEAM TO WIDE-FLANGE COLUMN AND GIRDER CONNECTIONS, UNLESS OTHERWISE NOTED.
2. ALL BOLTS SHALL BE 3/4"Ø, CONFORMING TO ASTM F3125, GRADE A325-N. BOLT HOLES SHALL BE AS FOLLOWS:
   A. SUPPORTING MEMBER: STANDARD HOLES IN BEAM/COLUMN WEB/FLANGE AND ANGLE.
   B. SUPPORTED BEAM: STANDARD HOLES IN BEAM WEB AND STANDARD OR HORIZ. SHORT-SLOTTED HOLES IN ANGLES.
3. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01.
4. MIN. EDGE DISTANCE FROM TOP OR BOTTOM BOLT TO A COPE SHALL BE 1 1/2". WHERE DEEPER COPES ARE REQD., INCREASE DISTANCE FROM TOP OF BEAM TO CL OF TOP BOLT.
5. BOLTS IN SUPPORTING MEMBER MUST BE INSTALLED 1 3/4" MAX FROM SUPPORTED BEAM WEB.

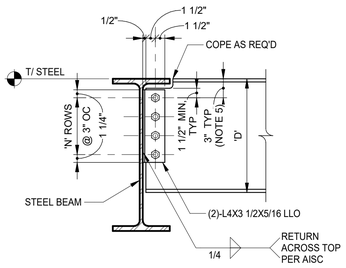


K9 TYPICAL SINGLE ANGLE CONNECTION W/ 3/4"Ø BOLTS

NTS



TYPICAL CONNECTION AT COLUMNS



TYPICAL CONNECTION AT GIRDERS

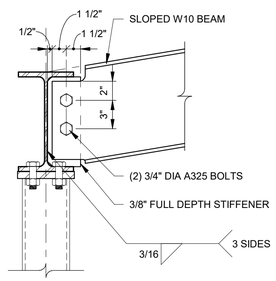
CONNECTION SCHEDULE	
NOMINAL BEAM SIZE 'D'	NUMBER OF BOLT ROWS 'N'
W8, C8, C9, W10, C10	2
W12, C12, W14	3
C15, W16, W18	4
W21, W24	6
W27, W30, W33	7
W36, W40, W44	8

NOTES:

1. PROVIDE DOUBLE ANGLE CONNECTION AT ALL BEAM TO WIDE-FLANGE COLUMN AND GIRDER CONNECTIONS, UNLESS OTHERWISE NOTED.
2. ALL BOLTS SHALL BE 3/4"Ø, CONFORMING TO ASTM F3125, GRADE A325-N. BOLT HOLES SHALL BE STANDARD IN BEAM WEB AND STANDARD OR HORIZ. SHORT-SLOTTED IN ANGLES.
3. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION CONTROL BOLTS CONFORMING TO RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS SHALL BE PROVIDED AT ALL HIGH-STRENGTH BOLTED CONNECTIONS IN ACCORDANCE WITH UFC 3-301-01.
4. WHERE BEAMS FRAME INTO BOTH SIDES OF SUPPORTING MEMBER, THE DETAILER SHALL ENSURE CONFORMANCE WITH OSHA ERECTION GUIDELINES. ADD ADDITIONAL ROWS OF BOLTS OR STAGGER ANGLES AS REQUIRED.
5. MIN. EDGE DISTANCE FROM TOP OR BOTTOM BOLT TO A COPE SHALL BE 1 1/2". WHERE DEEP COPES ARE REQD., INCREASE DISTANCE FROM TOP OF BEAM TO CL OF TOP BOLT.

B1 TYPICAL DOUBLE ANGLE SHEAR CONNECTION DETAIL

NTS



F9 SLOPED BEAM CONNECTION

1 1/2" = 1'-0"

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

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W9126G25F0273

STRUCTURAL SHEAR CONNECTION DETAILS

SHEET ID

S-507

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/S_B90176 Hangar Door Expansion_D25-04414_R24.rvt

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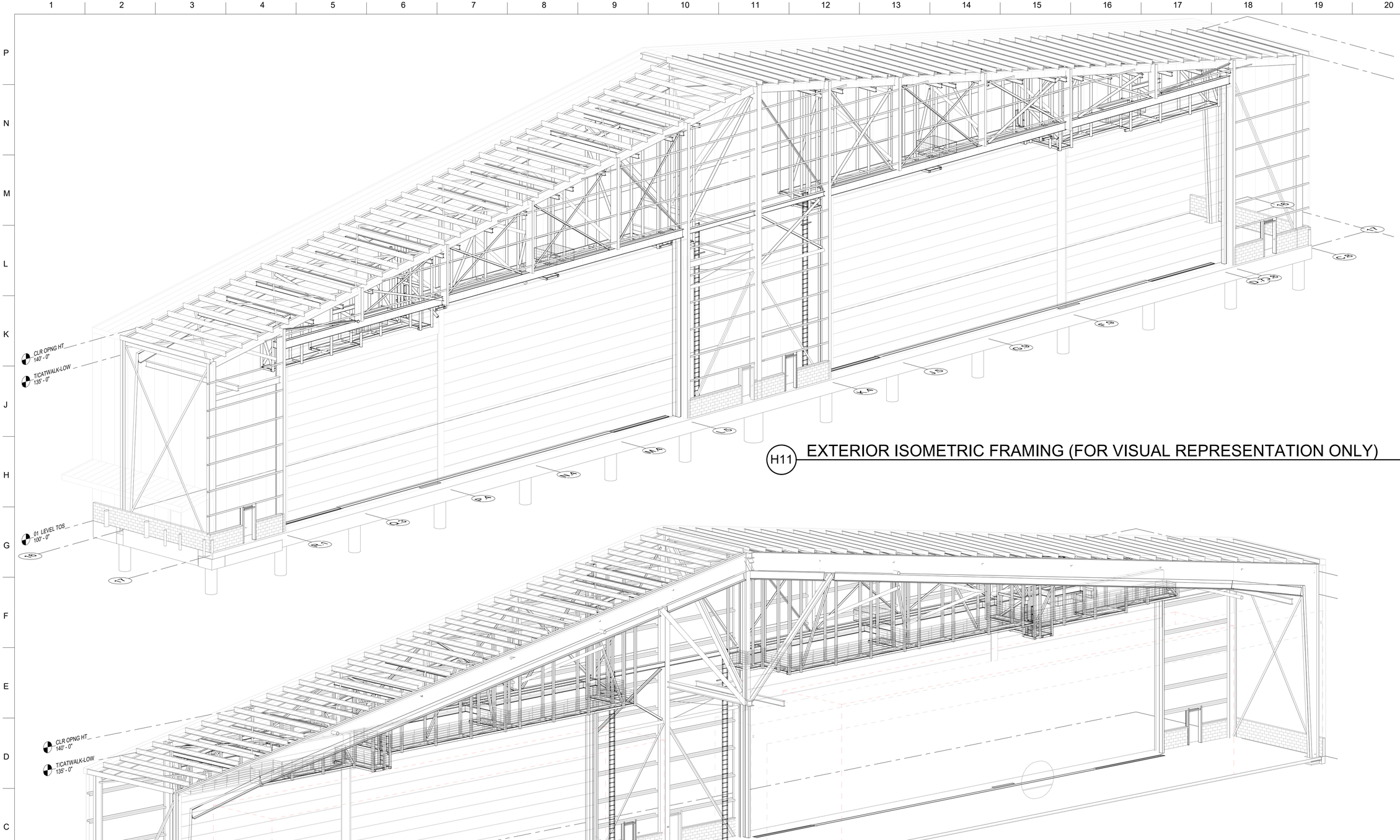
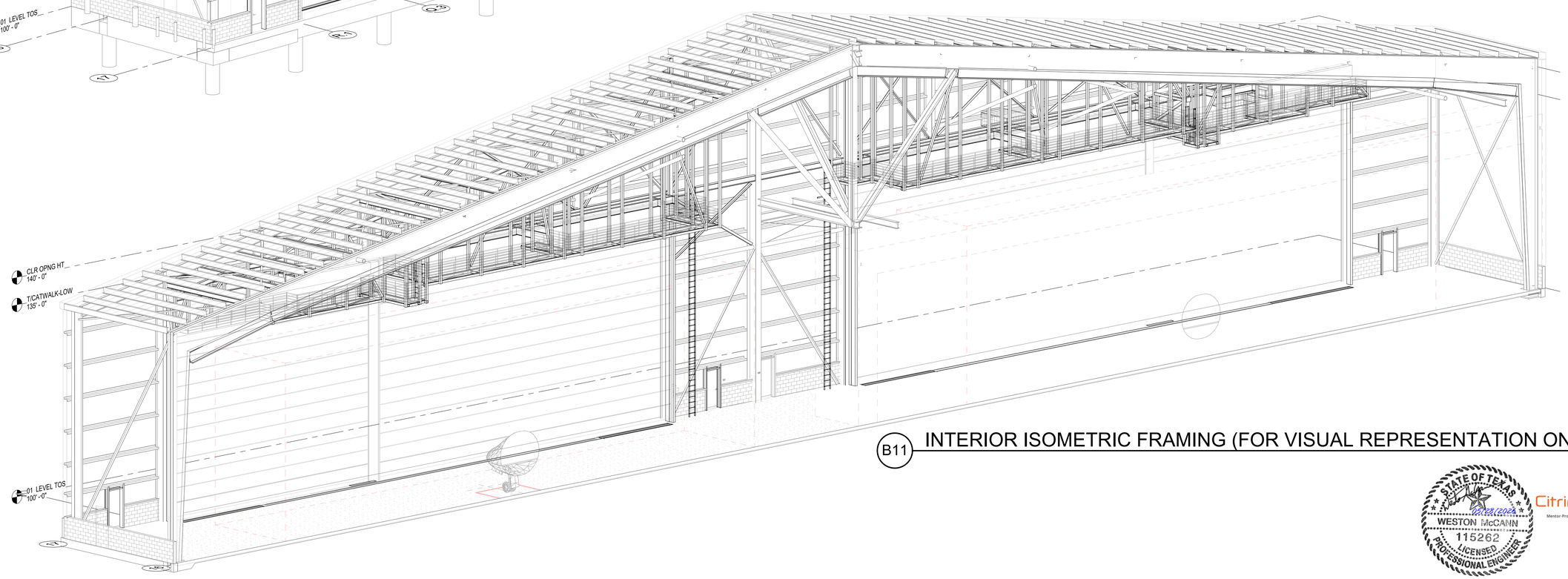


H11 EXTERIOR ISOMETRIC FRAMING (FOR VISUAL REPRESENTATION ONLY)



B11 INTERIOR ISOMETRIC FRAMING (FOR VISUAL REPRESENTATION ONLY)

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MARK	DESCRIPTION	DATE

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Plot Date: 5/27/2026 2:49:51 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: J. BATY
DRAWN BY: D. FAVAZZA
CHECKED BY: W. McCANN
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

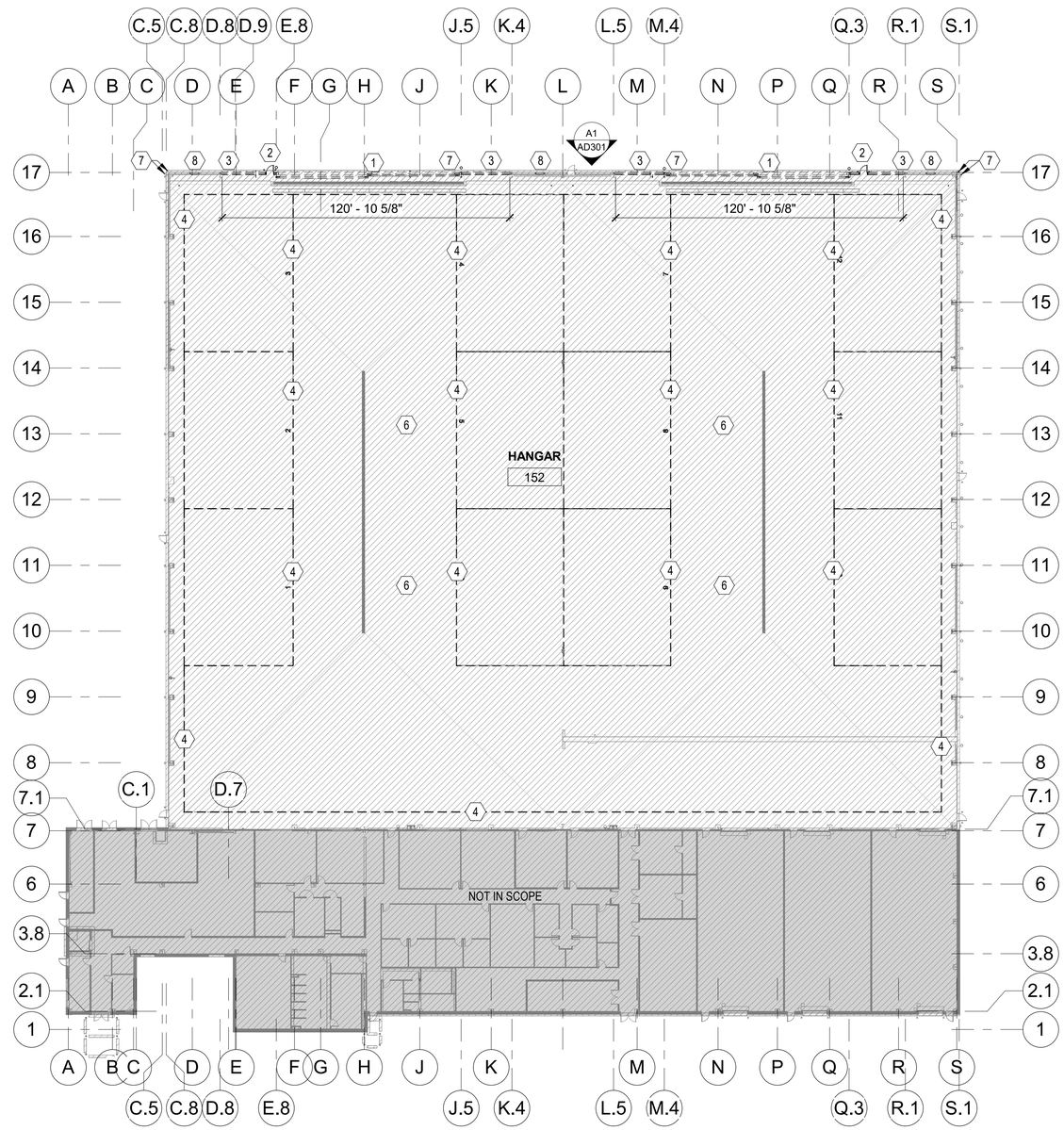
CITRINE OLSSON JV
2801 GRANDE AVE
GRAND JUNCTION, CO 81508

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

STRUCTURAL FRAMING ISOMETRIC

SHEET ID

S-901



A1 DEMOLITION FIRST FLOOR PLAN
1" = 30'-0"

DEMO FLOOR PLAN KEYNOTES

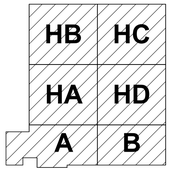
NOTE NUMBER	DESCRIPTION
1	DEMOLISH EXISTING ROLLING HANGAR DOOR, FRAMES, AND BOLLARDS
2	DEMOLISH EXISTING DOOR AND BOLLARDS
3	DEMOLISH EXISTING WALL TO EXTENT OF NEW FABRIC DOOR FRAME AND PREPARE FOR NEW DOOR
4	REMOVE STRIPING FOR EXISTING MISSION AND PREPARE FOR RESTRIPING TO MEET NEW MISSION REQUIREMENTS
6	PREPARE EXISTING SLAB TO MANUFACTURER REQUIREMENTS TO RECEIVE NEW FINISH.
7	DEMOLISH EXISTING BOLLARDS
8	DEMOLISH EXISTING WALL AND PREPARE FOR NEW DOOR

LEGEND	
	EXISTING - IN SCOPE
	EXISTING - NOT IN SCOPE

DEMOLITION NOTES

1. AN ATTEMPT HAS BEEN MADE TO SHOW ON THE DRAWINGS EXISTING BUILDING CONSTRUCTION AND CONDITIONS, HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND VERIFYING ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES TO THE CONTRACTING OFFICER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL REMOVE ALL EXISTING CONSTRUCTION, WALKS, LANDSCAPING AND GRADE NECESSARY TO CONSTRUCT NEW ADDITION. ANY DEMOLITION IN ADDITION TO WHAT IS REFERENCED ON THE DRAWINGS SHALL BE APPROVED BY CONTRACTING OFFICER PRIOR TO BEGINNING. ANY ADDITIONAL DEMOLITION REQUIRED AS A CONVENIENCE TO THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

KEY PLAN



N

0 15' 30' 60'
SCALE: 1"=30'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

Larson Design Group
3817 NW EXPRESSWAY
SUITE 840
OKLAHOMA CITY, OK 73112
(405) 722-7270

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:36:32 PM

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

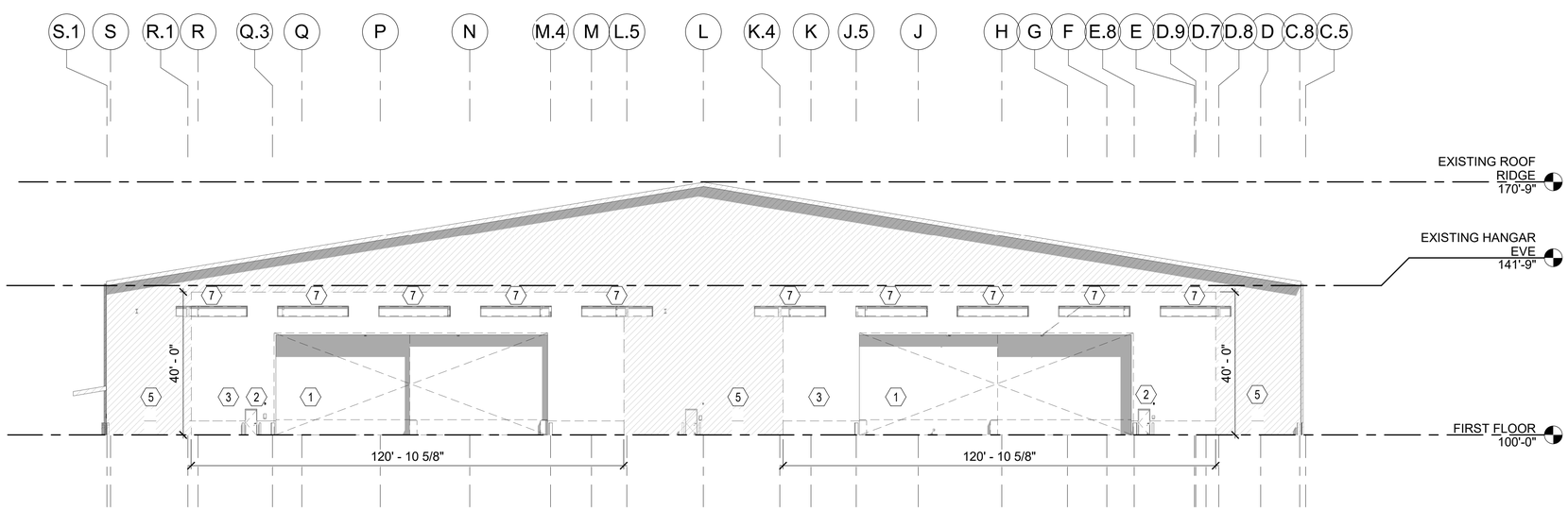
DEMOLITION FIRST FLOOR PLAN

SHEET ID
AD101

DEMO FLOOR PLAN KEYNOTES

NOTE NUMBER	DESCRIPTION
1	DEMOLISH EXISTING ROLLING HANGAR DOOR, FRAMES, AND BOLLARDS
2	DEMOLISH EXISTING DOOR AND BOLLARDS
3	DEMOLISH EXISTING WALL TO EXTENT OF NEW FABRIC DOOR FRAME AND PREPARE FOR NEW DOOR
5	DEMOLISH EXISTING WALL AND PREPARE FOR NEW DOOR
7	DEMOLISH EXISTING WINDOWS

LEGEND	
	EXISTING - IN SCOPE
	EXISTING - NOT IN SCOPE



A1 DEMOLITION BUILDING ELEVATION
1" = 20'-0"

0 10' 20' 40'
SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
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MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:36:34 PM

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

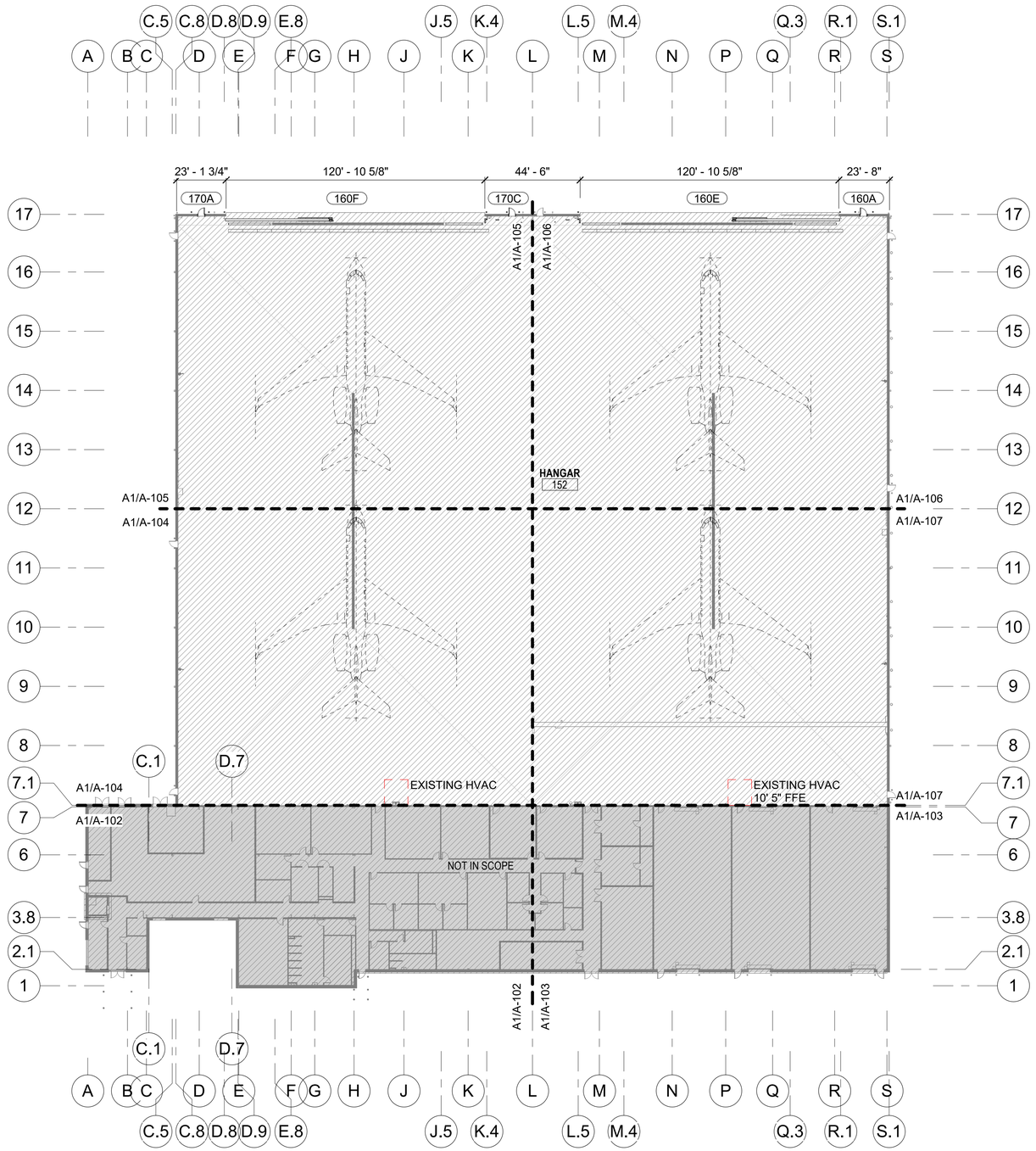
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DEMOLITION BUILDING ELEVATION

SHEET ID
AD301

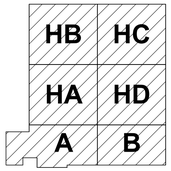


A1 FIRST FLOOR PLAN - OVERALL
1" = 30'-0"

GENERAL NOTES (PLANS):

1. DIMENSIONS SHOWN ARE LOCATED TO FACES OF CORE.
2. REFER SHEET ***I-600*** FOR FINISH SCHEDULE.
3. REFER SHEET SERIES ***A-101*** FOR OVERALL PLANS, EXTERIOR DIMENSIONS AND OPENING DIMENSIONS.

KEY PLAN



N

0 15' 30' 60'
SCALE: 1"=30'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

Larson Design Group
3817 NW EXPRESSWAY
SUITE 840
OKLAHOMA CITY, OK 73112
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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:36:34 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
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OKLAHOMA CITY, OK 73112

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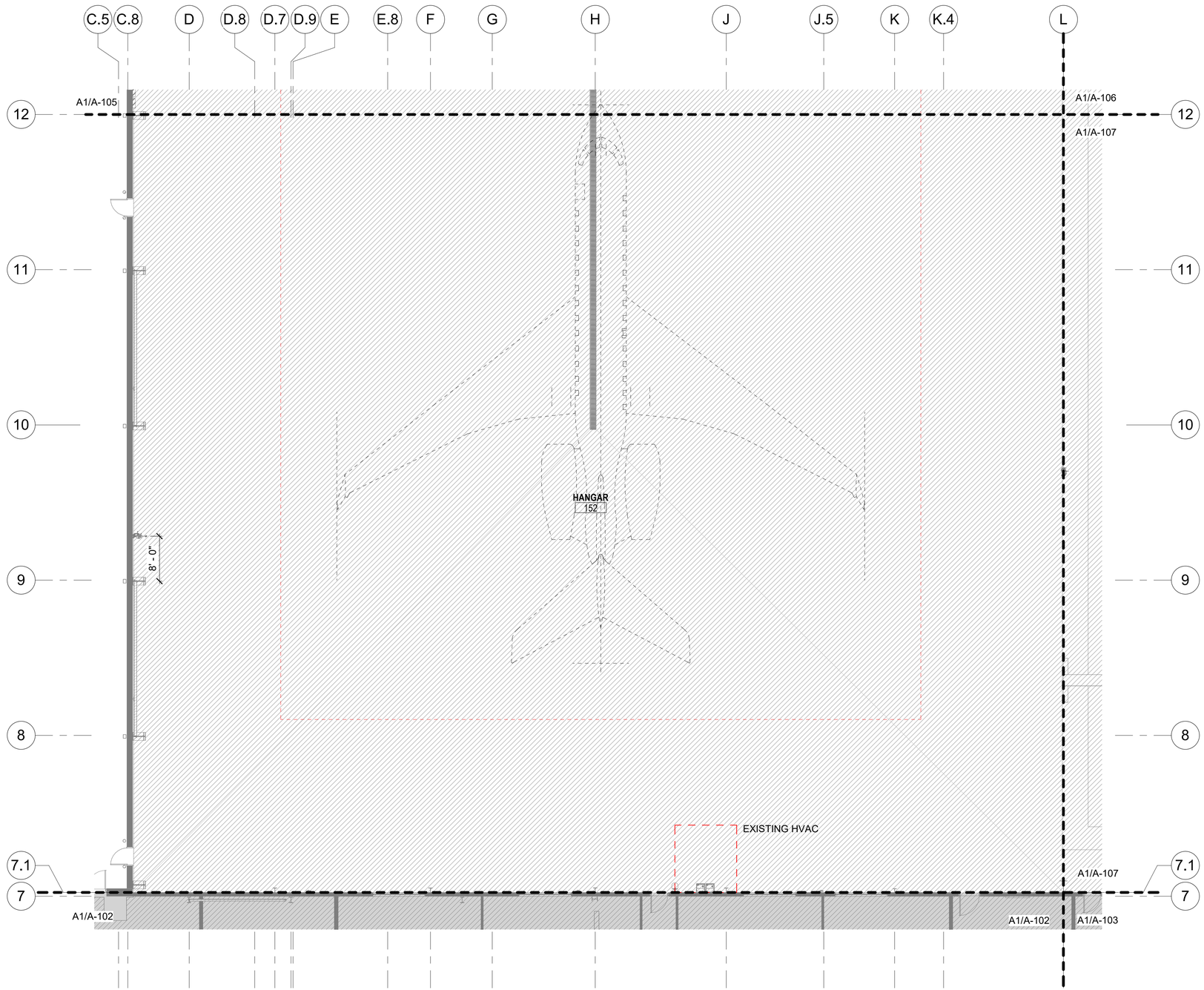
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FIRST FLOOR PLAN - OVERALL

SHEET ID
A-101



A1 FIRST FLOOR PLAN - AREA HA

1" = 10'-0"

GENERAL NOTES (PLANS):

1. DIMENSIONS SHOWN ARE LOCATED TO FACES OF CORE.
2. REFER SHEET ***I-600*** FOR FINISH SCHEDULE.
3. REFER SHEET SERIES ***A-101*** FOR OVERALL PLANS, EXTERIOR DIMENSIONS AND OPENING DIMENSIONS.

LINETYPE LEGEND	
- - -	CLEARANCE LINE

KEY PLAN

HB	HC
HA	HD
A	B

N

0 5' 10' 20'

SCALE: 1"=10'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
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FIRST FLOOR PLAN - AREA HA

SHEET ID
A-104

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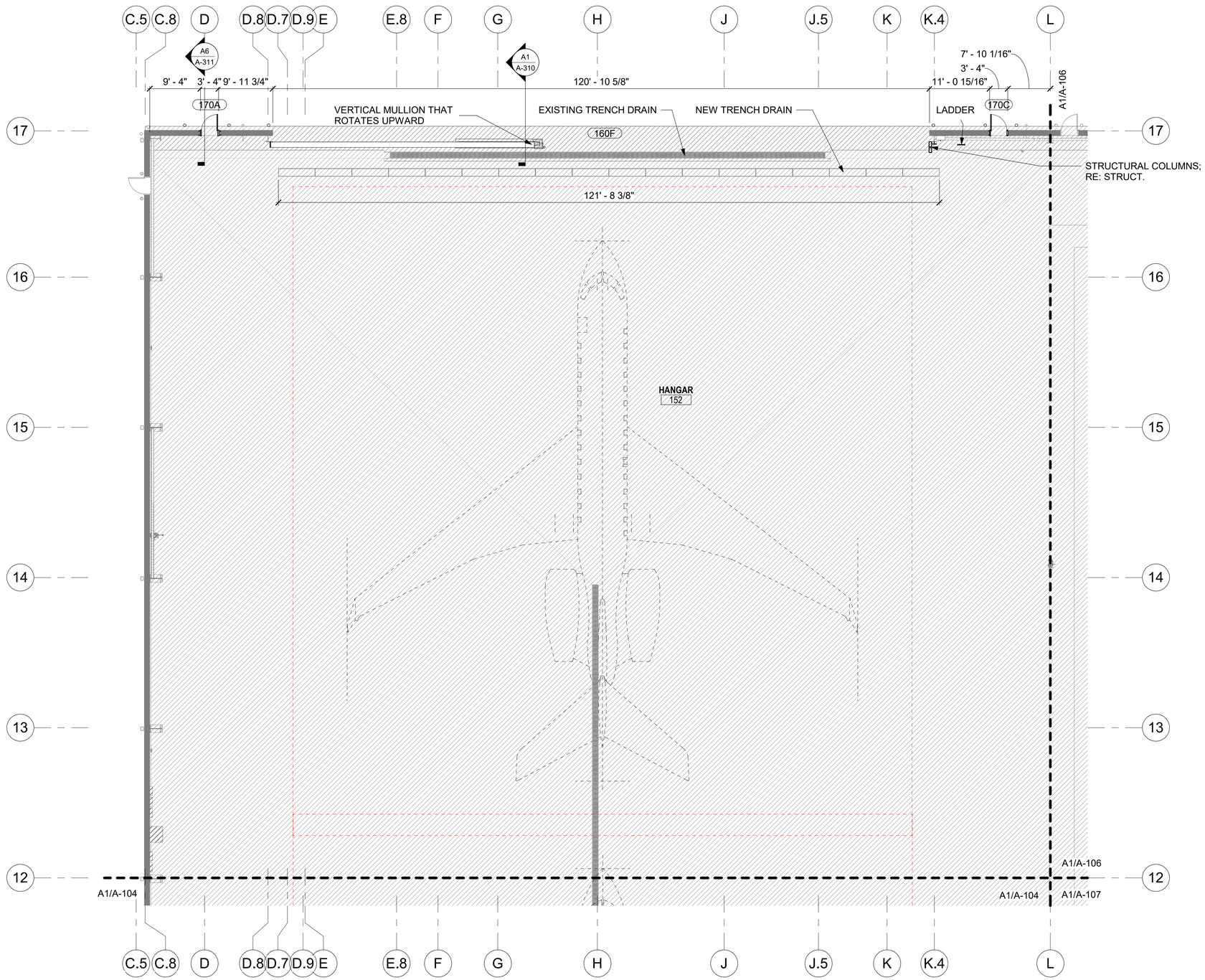
Plot Date: 5/26/2026 3:36:37 PM



A1 FIRST FLOOR PLAN - AREA HB

1" = 10'-0"

GENERAL NOTES (PLANS):

1. DIMENSIONS SHOWN ARE LOCATED TO FACES OF CORE.
2. REFER SHEET ***I-600*** FOR FINISH SCHEDULE.
3. REFER SHEET SERIES ***A-101*** FOR OVERALL PLANS, EXTERIOR DIMENSIONS AND OPENING DIMENSIONS.

LINETYPE LEGEND	
- - -	CLEARANCE LINE

KEY PLAN

HB	HC
HA	HD
A	B

N

0 5' 10' 20'

SCALE: 1"=10'

STATE OF OKLAHOMA
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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9128G26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. HAYES
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

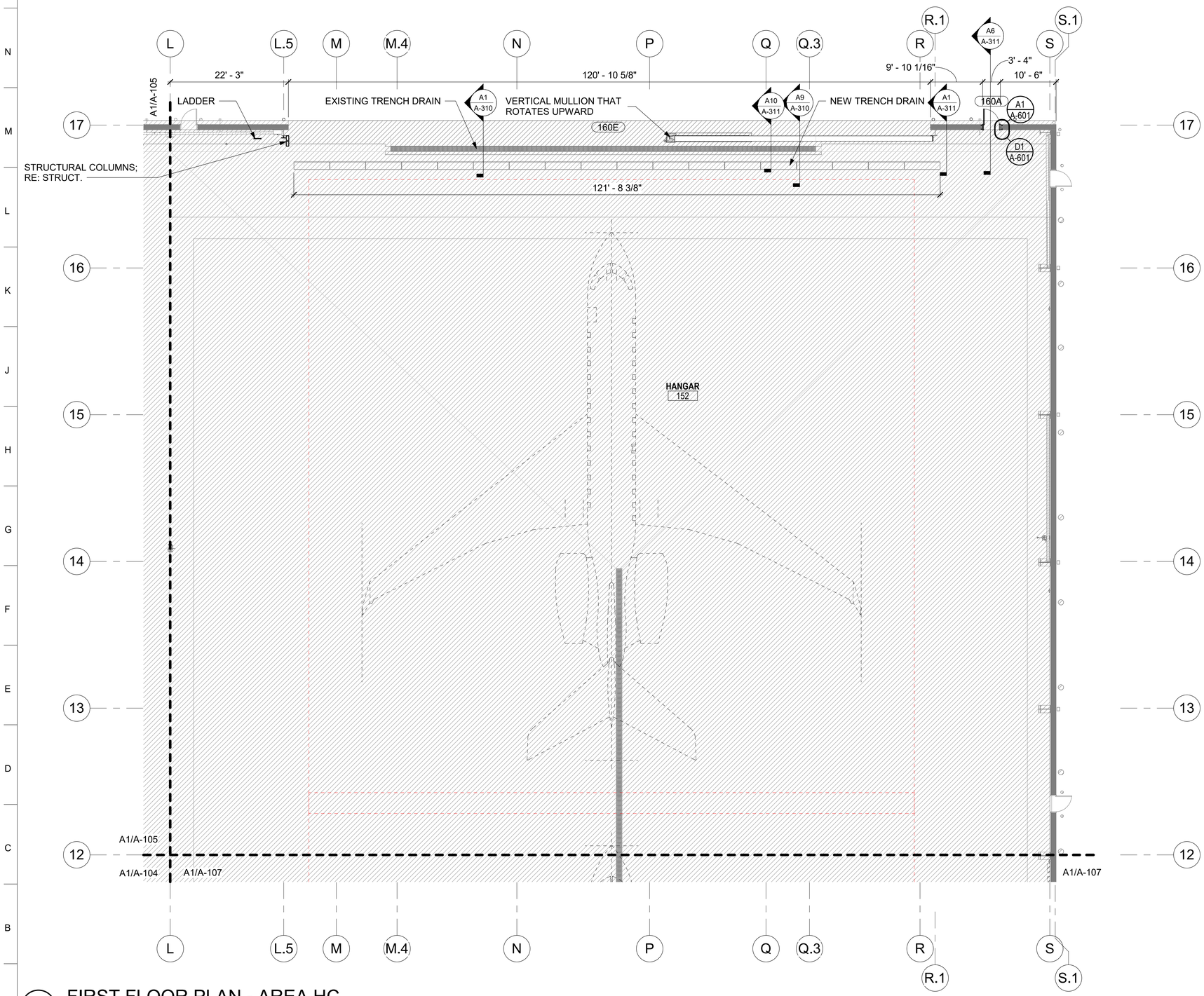
FIRST FLOOR PLAN - AREA HB

SHEET ID

A-105

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:36:39 PM



A1 FIRST FLOOR PLAN - AREA HC

1" = 10'-0"

GENERAL NOTES (PLANS):

1. DIMENSIONS SHOWN ARE LOCATED TO FACES OF CORE.
2. REFER SHEET ***I-600*** FOR FINISH SCHEDULE.
3. REFER SHEET SERIES ***A-101*** FOR OVERALL PLANS, EXTERIOR DIMENSIONS AND OPENING DIMENSIONS.

LINETYPE LEGEND	
- - -	CLEARANCE LINE

KEY PLAN

HB	HC
HA	HD
A	B

N

0 5' 10' 20'

SCALE: 1"=10'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
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Plot Date: 5/26/2026 3:36:41 PM

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: C. HUNTER
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9128G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
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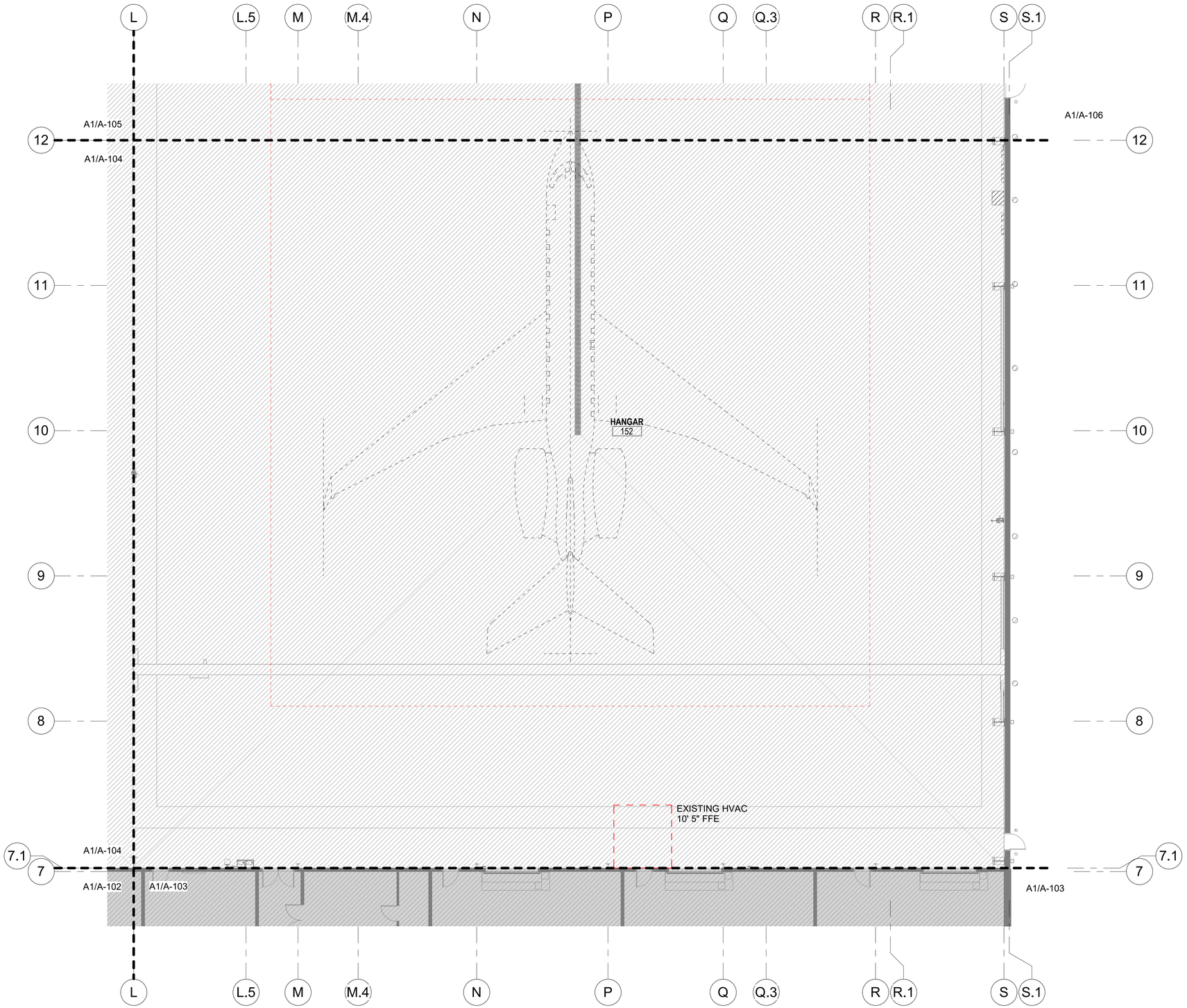
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FIRST FLOOR PLAN - AREA HC

SHEET ID

A-106



A1 FIRST FLOOR PLAN - AREA HD

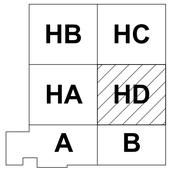
1" = 10'-0"

GENERAL NOTES (PLANS):

1. DIMENSIONS SHOWN ARE LOCATED TO FACES OF CORE.
2. REFER SHEET ***I-600*** FOR FINISH SCHEDULE.
3. REFER SHEET SERIES ***A-101*** FOR OVERALL PLANS, EXTERIOR DIMENSIONS AND OPENING DIMENSIONS.

LINETYPE LEGEND	
- - -	CLEARANCE LINE

KEY PLAN



N

0 5' 10' 20'

SCALE: 1"=10'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
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MARK	DESCRIPTION	DATE

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Plot Date: 5/26/2026 3:36:43 PM

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

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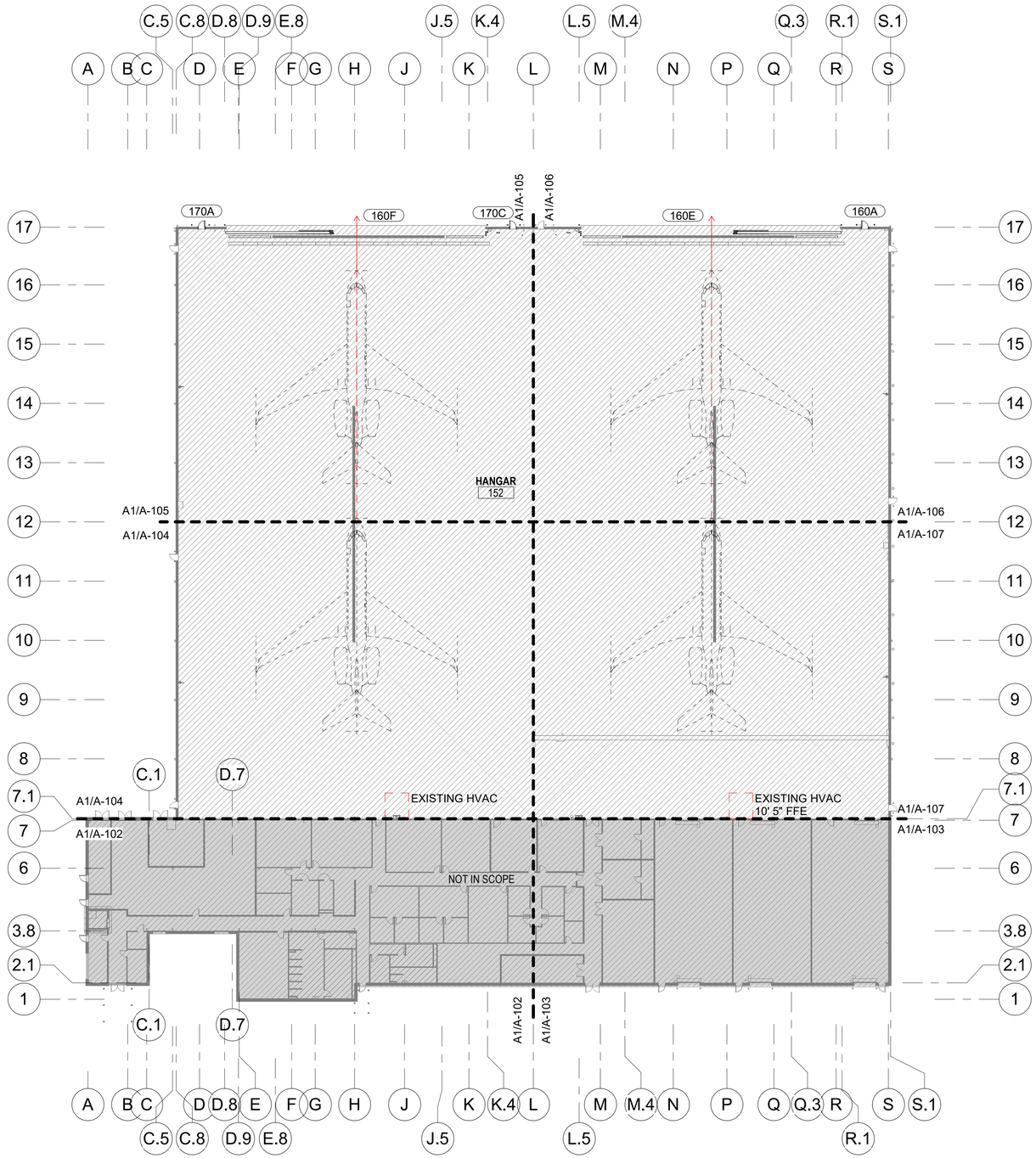
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FIRST FLOOR PLAN - AREA HD

SHEET ID

A-107



A1 FIRST FLOOR PLAN - OVERALL
1" = 30'-0"

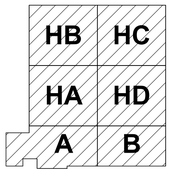
GENERAL NOTES (PLANS):

1. NO DEDICATED TOW EGRESS IS PROVIDED. TOW VEHICLES WILL ENTER AND EXIT THROUGH THE VERTICAL LIFT FABRIC DOORS.

VEHICLE TOW PATH LEGEND:

———	2ND VEHICLE TOW PATH
- - - -	1ST VEHICLE TOW PATH

KEY PLAN



N

0 15' 30' 60'
SCALE: 1"=30'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

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MARK	DESCRIPTION	DATE

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Plot Date: 5/26/2026 3:36:46 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
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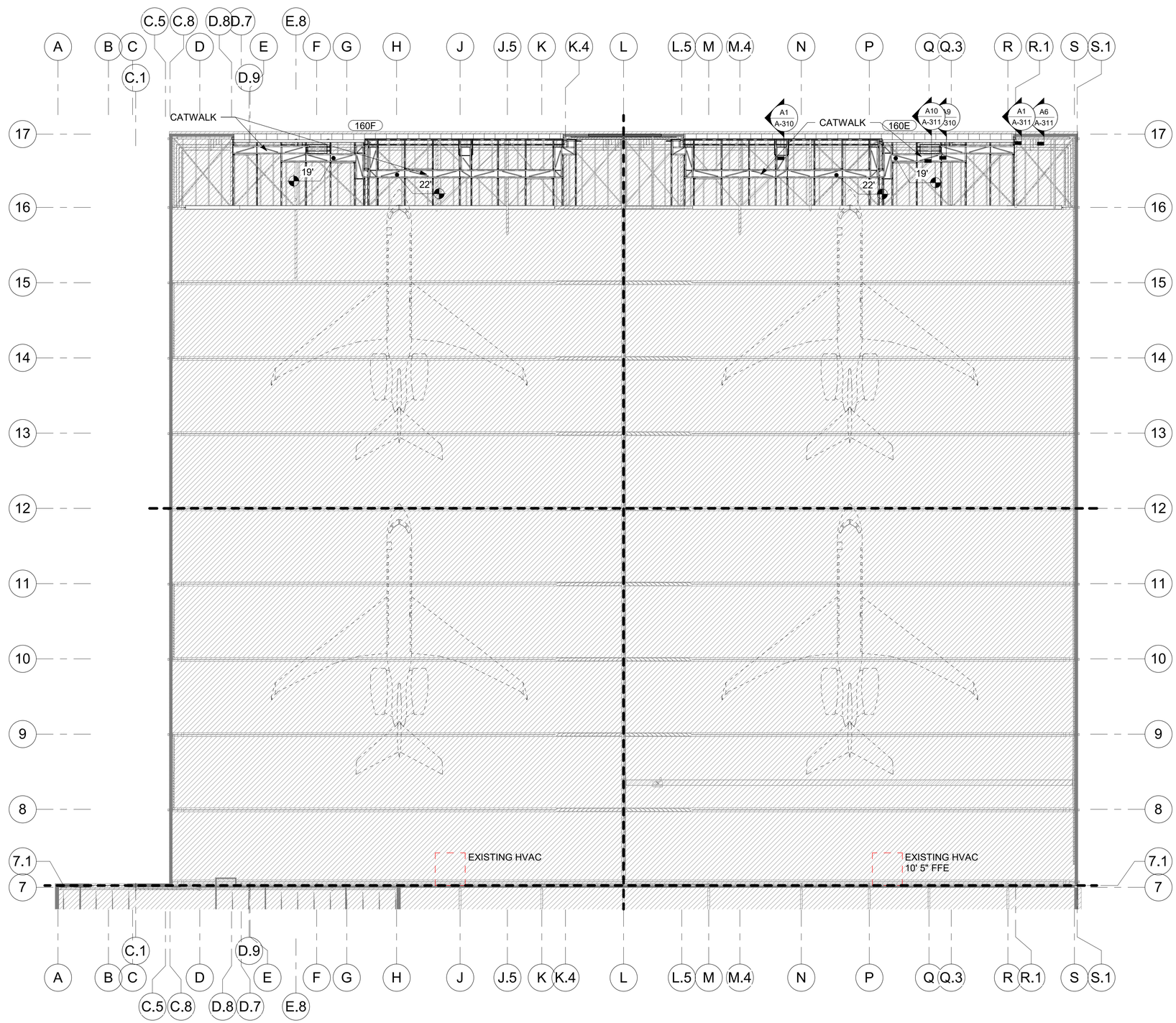
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

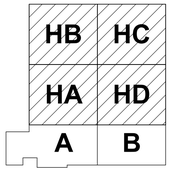
FIRST FLOOR PLAN - OVERALL - VEHICLE TOW PLAN

SHEET ID
A-109



A1 HANGAR CEILING PLAN
1" = 20'-0"

KEY PLAN



N

0 10' 20' 40'
SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

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OKLAHOMA CITY, OK 73112
(405) 722-7270

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MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - R24 - Arch/A1

Plot Date: 5/26/2026 3:36:51 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

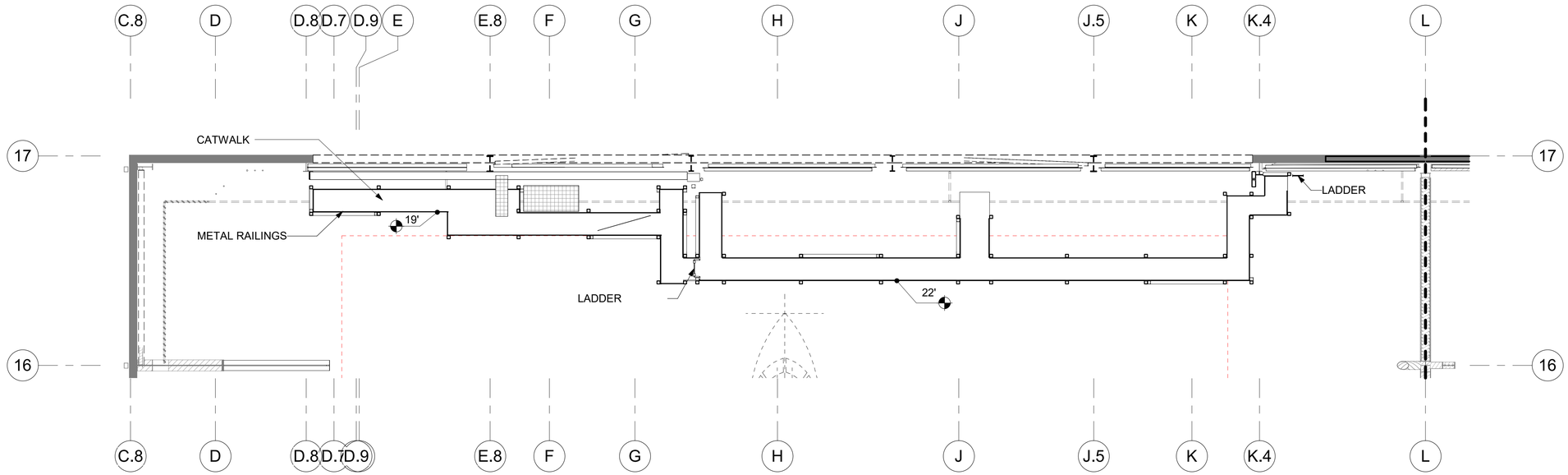
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

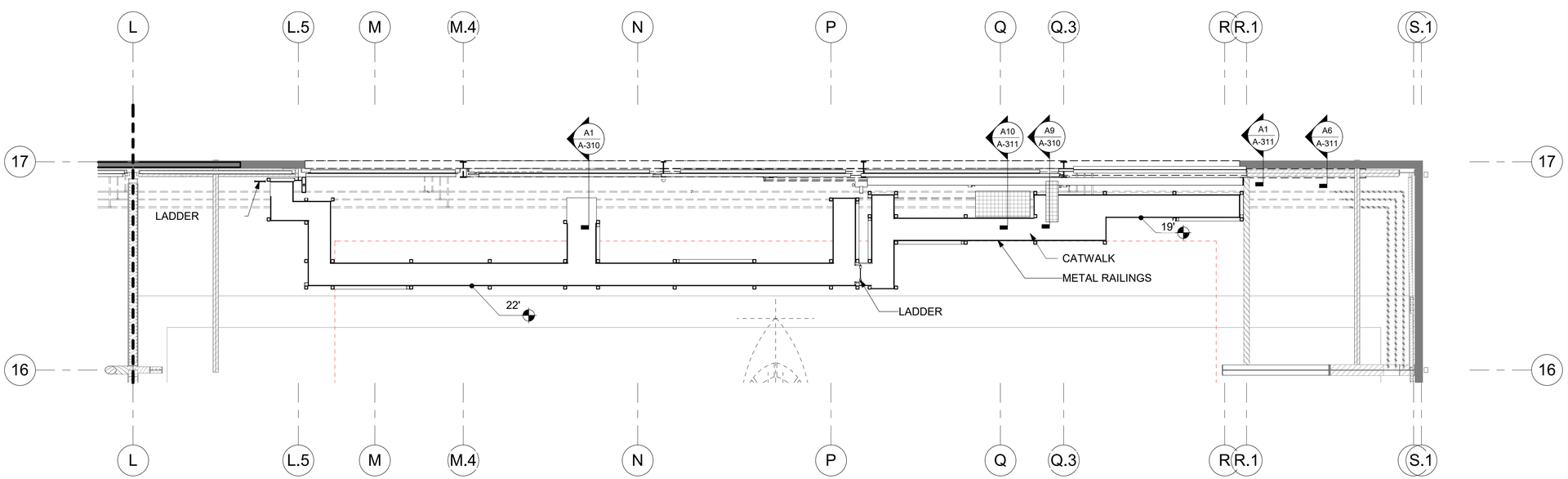
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

HANGAR REFLECTED CEILING PLAN

SHEET ID
A-111



H1 A-16 A-113 CATWALK ENLARGED PLAN - AREA HB
SCALE: 1/8" = 1'-0"



A1 A-16 A-113 CATWALK ENLARGED PLAN - AREA HC
SCALE: 1/8" = 1'-0"

KEY PLAN

HB	HC
HA	HD
A	B

N

0 10' 20' 40'
SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

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DESIGNED BY: B. BOURN	ISSUE DATE: MAY 28, 2026
DRAWN BY: M. MILLER	SOLICITATION NO.: W9126G26BA005
CHECKED BY: B. BOURN	CONTRACT NO.:
SUBMITTED BY: T. KURGAN	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
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OKLAHOMA CITY, OK 73112

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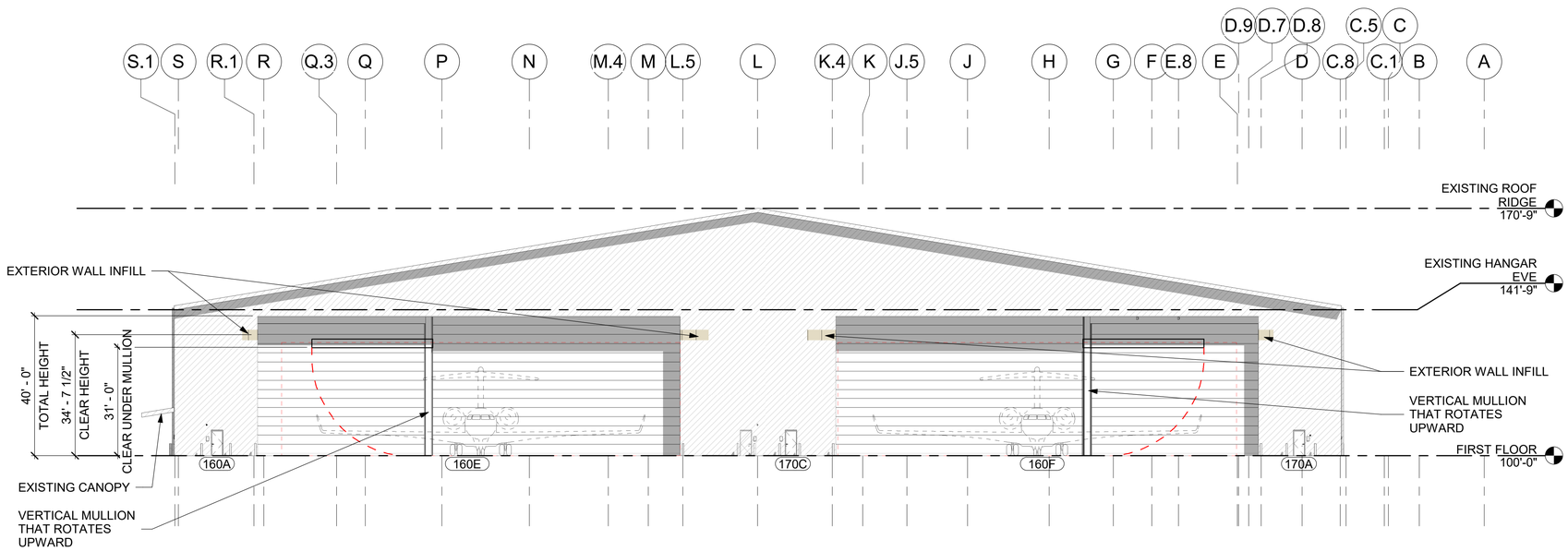
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

HANGAR CATWALK ENLARGED PLAN

SHEET ID
A-113

GENERAL NOTES:

1. EXTERIOR FINISH MATERIALS TO MATCH EXISTING.



G3 SOUTH ELEVATION

1" = 20'-0"

0 10' 20' 40'

SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
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Plot Date: 5/26/2026 3:36:55 PM

DESIGNED BY: B. BOURN
DRAWN BY: B. BOURN
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

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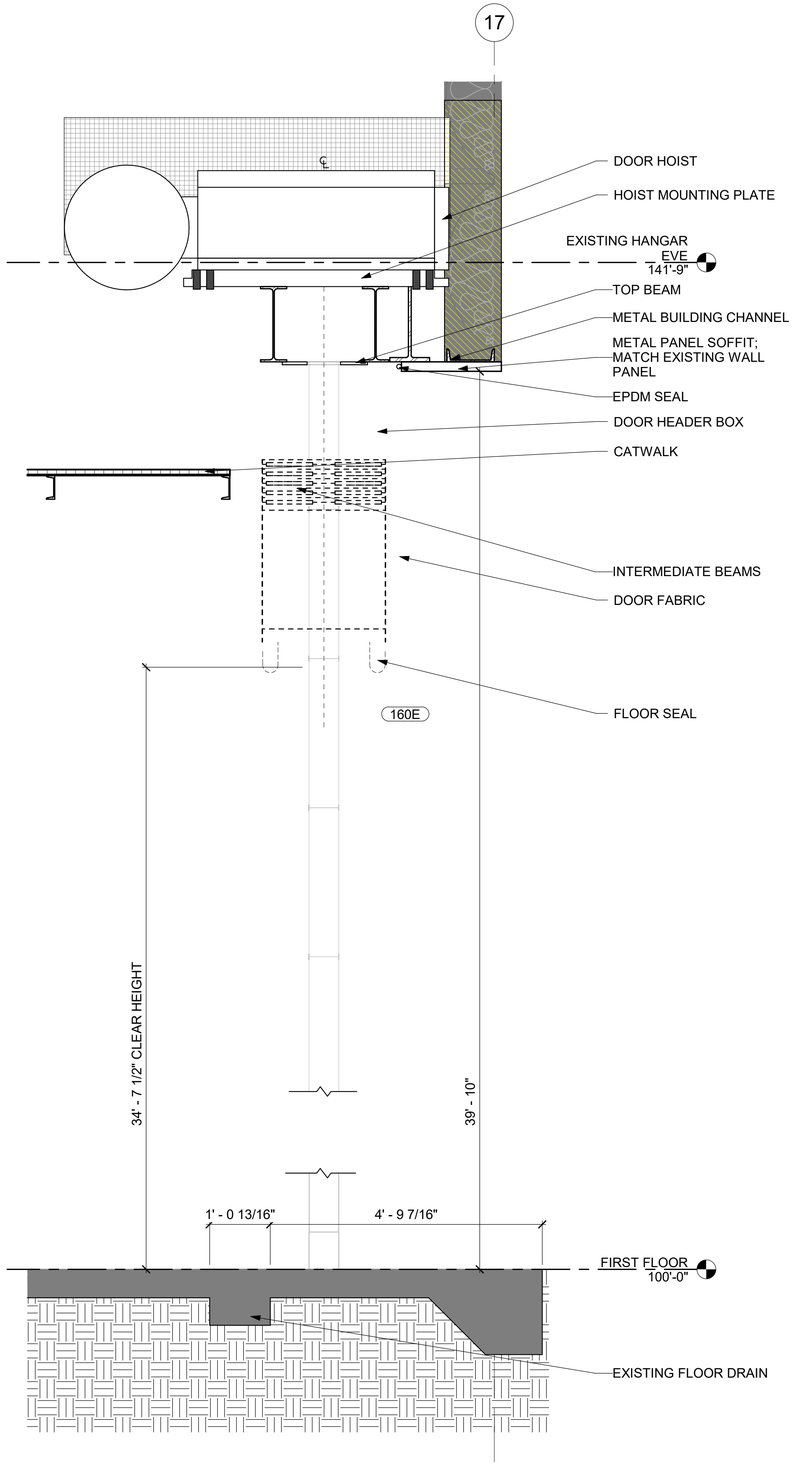
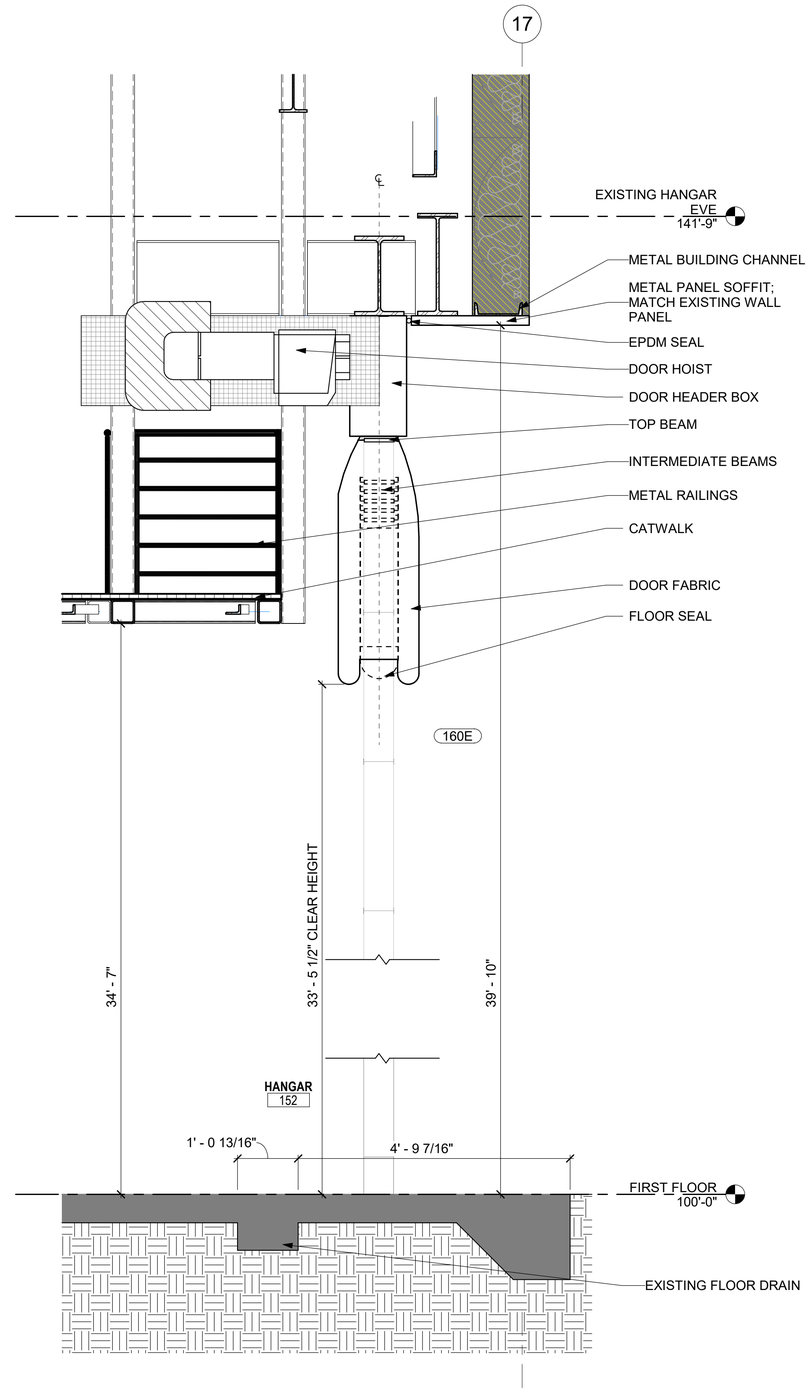
EXTERIOR ELEVATIONS

SHEET ID

A-201



A1 WALL SECTION
3/4" = 1'-0"



A9 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES (WALL SECTION):

1. R-VALUES FOR EXTERIOR ENVELOPE IN CLIMATE ZONE **2A**:

LOCATION	MATERIAL	R-VALUE
ROOF	METAL BUILDING	R-16
WALLS	METAL BUILDING	R-13
FLOOR	SLAB ON GRADE	NR

EXISTING VS. NEW	
	EXISTING WALL

0 0.5' 1' 2' 3'
SCALE: 3/4"=1'-0"

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

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Plot Date: 5/26/2026 3:36:58 PM

DESIGNED BY: B. BOURN
DRAWN BY: B. BOURN
CHECKED BY: B. BOURN
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

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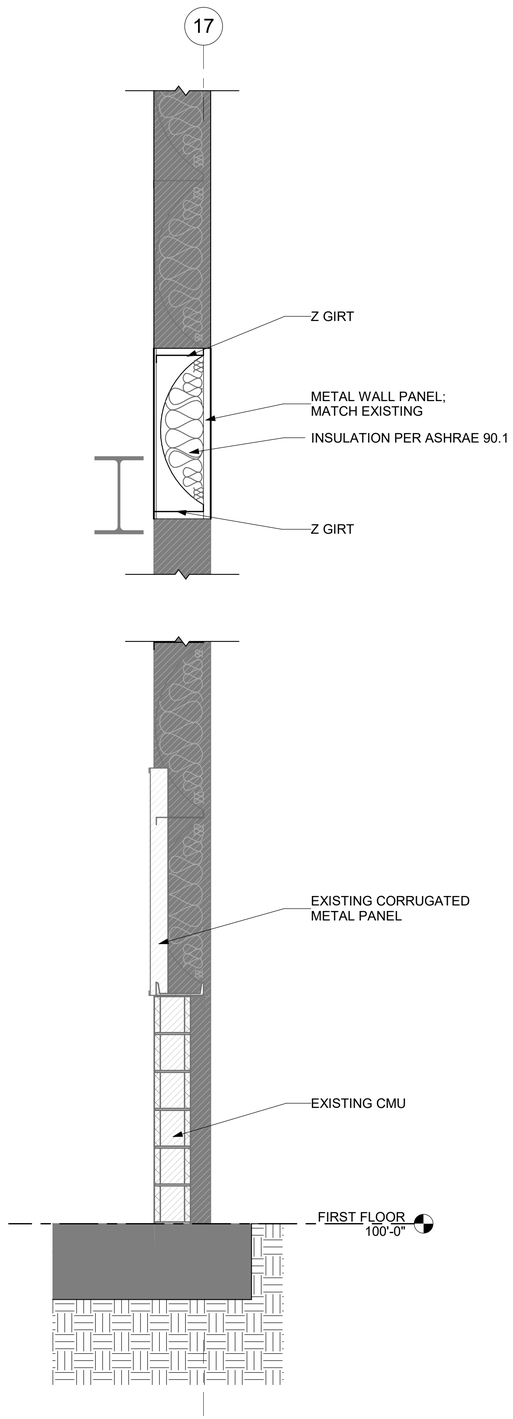
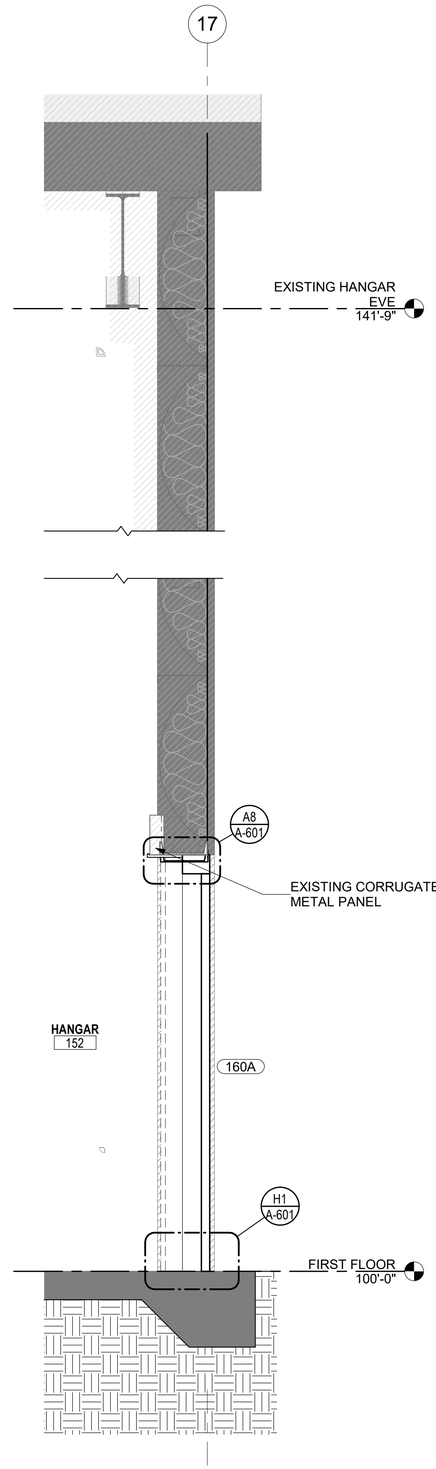
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

WALL SECTIONS

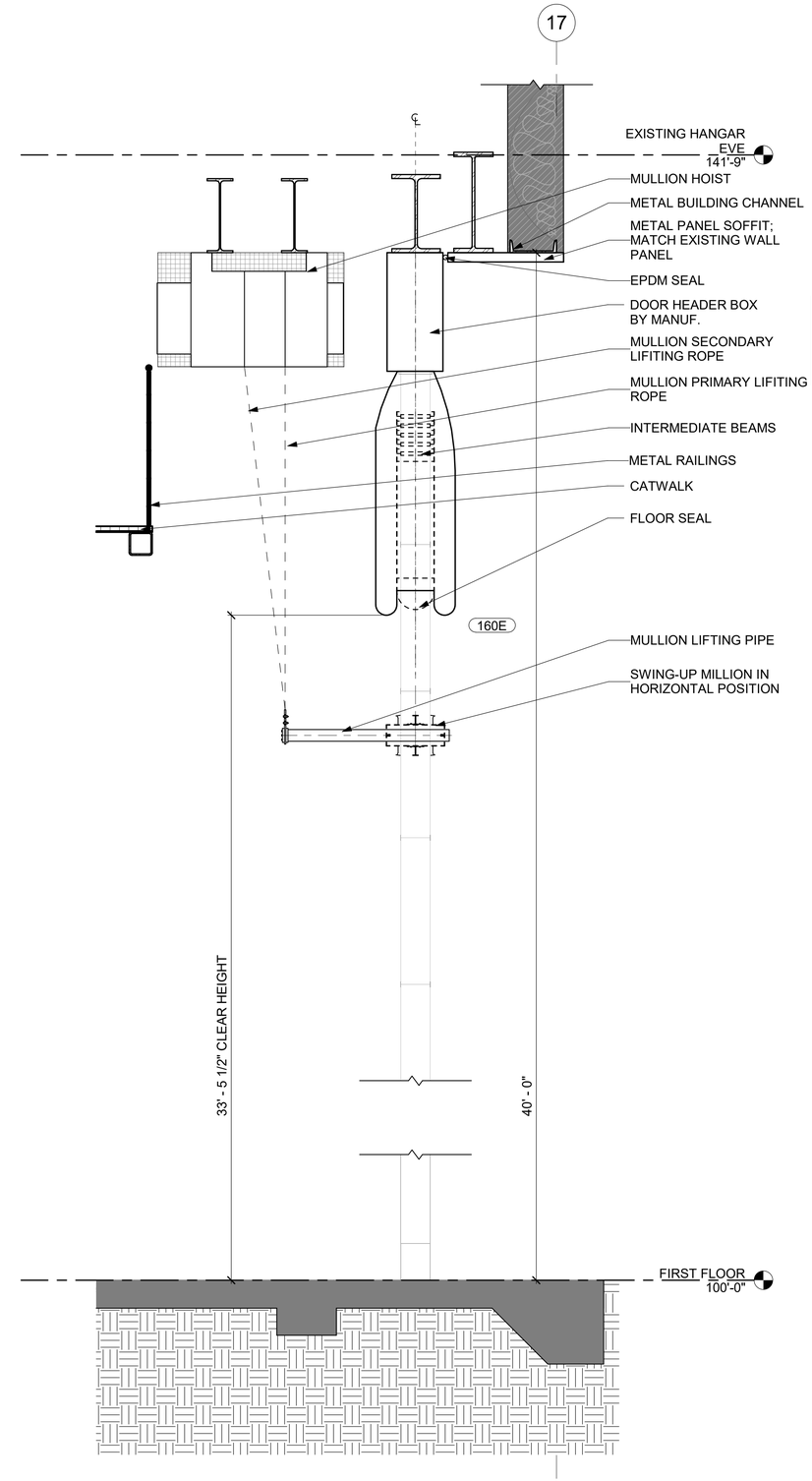
SHEET ID
A-310



A1 WALL SECTION
3/4" = 1'-0"



A6 WALL SECTION
3/4" = 1'-0"



A10 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES (WALL SECTION):

1. R-VALUES FOR EXTERIOR ENVELOPE IN CLIMATE ZONE **2A**:

LOCATION	MATERIAL	R-VALUE
ROOF	METAL BUILDING	R-16
WALLS	METAL BUILDING	R-13
FLOOR	SLAB ON GRADE	NR

EXISTING VS. NEW	
	EXISTING WALL

0 0.5' 1' 2' 3'
SCALE: 3/4"=1'-0"

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

Larson Design Group
3817 NW EXPRESSWAY
SUITE 840
OKLAHOMA CITY, OK 73112
(405) 722-7270

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:37:01 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

DESIGNED BY: B. BOURN
DRAWN BY: B. BOURN
CHECKED BY: B. HAYES
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

WALL SECTIONS

SHEET ID
A-311

DOOR + FRAME SCHEDULE - EXISTING & NEW

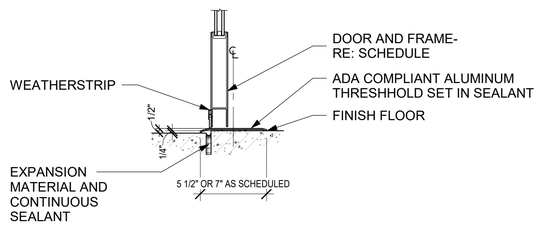
MARK	ROOM	DOOR ELEV.	DOOR WIDTH	DOOR HEIGHT	DOOR THK.	DOOR MAT'L	DOOR FINISH	DOOR COLOR	FRAME ELEV.	FRAME DEPTH	FRAME MAT'L	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS SILL	STC RATING	FIRE RATING	HARDWARE SET	COMMENTS TYPE	COMMENTS OTHER
NEW CONSTRUCTION FIRST FLOOR																						
160A		F	3'-0"	7'-0"	1 3/4"	HM	PT	PT-1	1		HM	PT	PT-2	A8 / A-601	A1 / A-601 & D1 / A-601	A1 / A-601 & D1 / A-601	H1 / A-601	0		1		
160E			120'-10 5/8"	34'-7 1/2"																		
160F			120'-10 5/8"	34'-7 1/2"																		
170A		F	3'-0"	7'-0"	1 3/4"	HM	PT	PT-1	1		HM	PT	PT-2	A8 / A-601	A1 / A-601 & D1 / A-601	A1 / A-601 & D1 / A-601	H1 / A-601	0		1		
170C		F	3'-0"	7'-0"	1 3/4"	HM	PT	PT-1	1		HM	PT	PT-2	A8 / A-601	A1 / A-601 & D1 / A-601	A1 / A-601 & D1 / A-601	H1 / A-601	0		1		

GENERAL DOOR SCHEDULE NOTES:

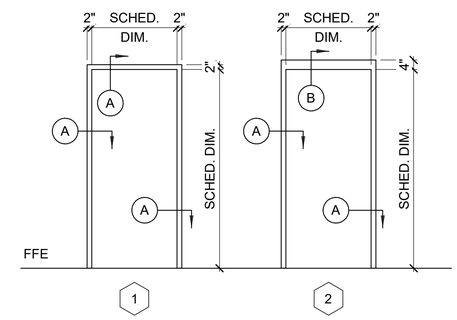
1. REFER SHEET ***I-601*** FOR BASIS-OF-DESIGN MANUFACTURER AND COLOR INFORMATION FOR WOOD, ANODIZED ALUMINUM, & PAINTED STEEL OR HOLLOW METAL DOORS & TRIM.
2. REFER SHEET ***A-601*** FOR DOOR TYPES AND FRAME ELEVATIONS
3. REFER SHEET ***A-601*** FOR FRAME TYPES
4. REFER TO SHEET ***I-501*** FOR INTERIOR FLOOR MATERIAL TRANSITION DETAILS.
5. BACK PRIME ALL HOLLOW METAL DOOR FRAMES
6. HARDWARE BY DOOR MANUFACTURER
7. HANGAR DOOR JAMB DETAILS PER MANUFACTURER

DOOR FRAME NOTES:

1. SEE SPECIFICATIONS FOR ALLOWABLE HOLLOW METAL FRAME TYPES (WELDED, KNOCK-DOWN, ETC.)
2. FRAME SECTIONS SHOWN APPLY AT HOLLOW METAL FRAMES ONLY. WHERE ALUMINUM IS SCHEDULED, PROVIDE A FRAME OF THE SCHEDULED DEPTH, WITH FACE DIMENSIONS AS SHOWN IN THE FRAME ELEVATION. ALUMINUM FRAME SECTION TO BE THE MANUFACTURER'S PROFILE AS SPECIFIED.

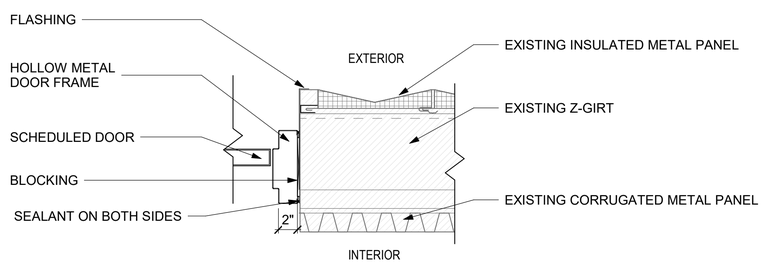


H1 EXTERIOR DOOR THRESHOLD
1 1/2" = 1'-0"

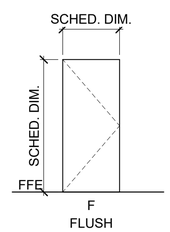


NOTE: NOT ALL FRAME ELEVATIONS MAY BE USED

F15 DOOR FRAME ELEVATIONS (TYPICAL)
3/8" = 1'-0"



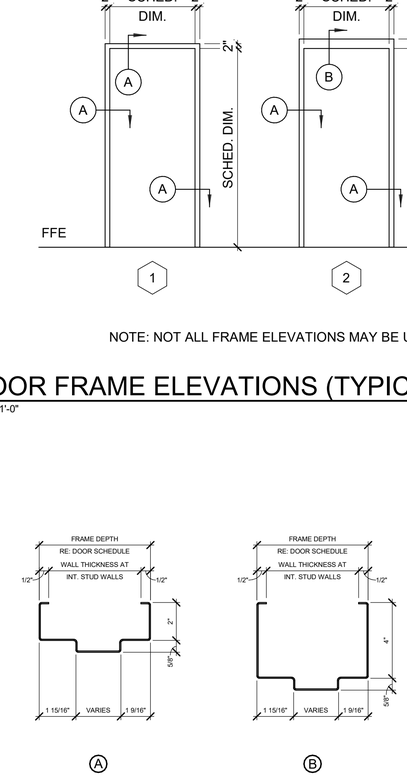
D1 HOLLOW METAL FRAME JAMB @ METAL PANEL DETAIL
1 1/2" = 1'-0"



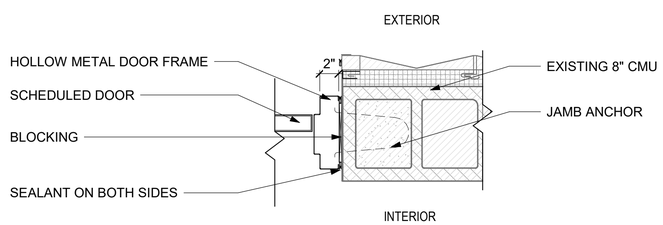
DOOR ELEVATION NOTES:

1. WHERE POSSIBLE, DOOR ELEVATION TYPE ABBREVIATIONS CONFORM TO ANSI DOCUMENT A250.7-1997 - NOMENCLATURE FOR STANDARD DOOR DESIGNS.
2. SEE THE DOOR + FRAME SCHEDULE FOR DOOR MATERIAL(S).

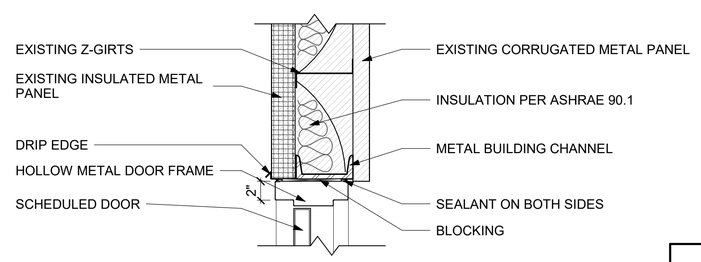
D8 DOOR ELEVATIONS (TYPICAL) CONDENSED
1/4" = 1'-0"



B15 HOLLOW METAL FRAME PROFILES (TYPICAL)
3" = 1'-0"



A1 HOLLOW METAL FRAME JAMB @CMU DETAIL
1 1/2" = 1'-0"



A8 HOLLOW METAL FRAME HEAD DETAIL
1 1/2" = 1'-0"

EXISTING VS. NEW	
	EXISTING WALL

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: B. BOURN
DRAWN BY: M. MILLER
CHECKED BY: B. HUNTER
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST.; FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DOOR SCHEDULE

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
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0 4' 8' 16'
SCALE: 1/8"=1'-0

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3817 NW EXPRESSWAY
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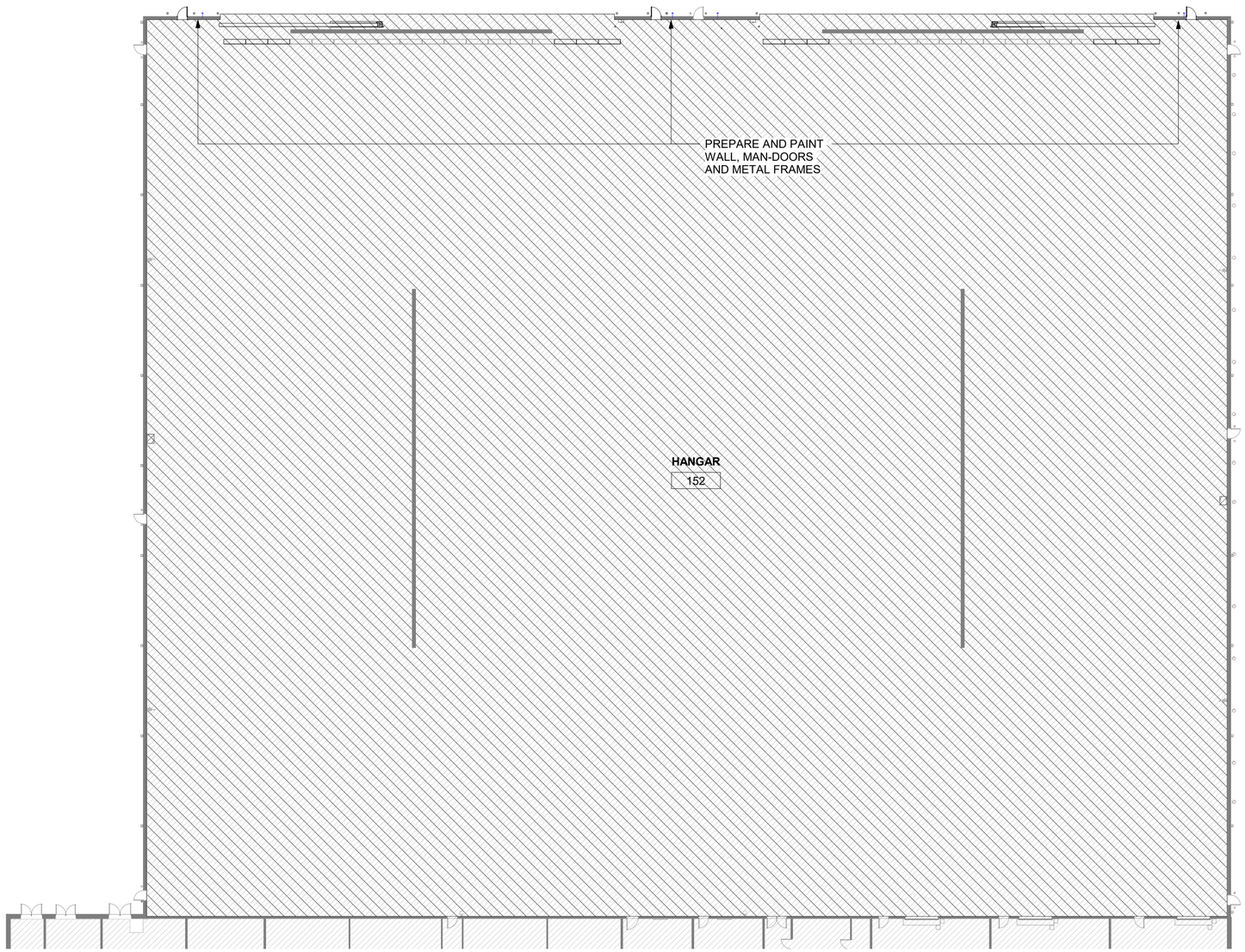
OKLAHOMA CITY, OK 73112
(405) 722-7270

SHEET ID
A-601

Plot Date: 5/26/2026 3:37:02 PM
File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt



A1 FINISH FLOOR PLAN
1" = 20'-0"

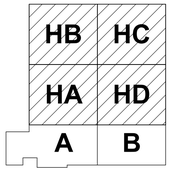
GENERAL NOTES (INTERIOR FINISHES):

1. RE-STRIPE EXISTING EPOXY FLOOR, PATCH AND REPAIR AS NEEDED.
2. NEW MARKINGS FOR ME-11B AIRCRAFT TO COMPLY WITH UFC MAINTAINANCE HANGAR CLEARANCE REQUIREMENTS.
3. THESE DRAWINGS INDICATE THE LIMITS OF FINISHES FOR AREAS THAT HAVE MULTIPLE TYPES AND COLORS. SEE FINISH MATERIAL COLOR LEGEND, SHEET **I-601**, FOR FINISHES AND COLORS NOT IDENTIFIED OR CALLED OUT ON THIS SHEET.
4. INTERIOR MATERIAL COLOR LEGEND REPRESENTS THE BASIS OF DESIGN MANUFACTURER, PATTERN AND COLOR INFORMATION FOR THE INTERIOR FLOOR, WALL, CEILING AND MISCELLANEOUS MATERIALS.
5. TYPICAL FIELD PAINT PT-1, LATEX PAINT.
6. REFERENCE SHEET **I-114** OVERALL STRIPING PLAN.
7. PAINT ALL WALLS, COLUMNS, ACCESS PANELS AND DOORS TO MATCH ADJACENT SURFACES.
8. PAINT EXPOSED STRUCTURE INCLUDING ALL PIPES, DUCTS, ETC.
9. REFERENCE SHEET **I-601** FOR DOOR FRAME COLOR.
10. REFER TO REFLECTED CEILING PLAN, SHEET **A-111** FOR CEILING HEIGHTS.
11. NOTIFY CONTRACTING OFFICER BEFORE STARTING TO PAINT. DO NOT BEGIN PAINTING UNTIL CONTRACTING OFFICER'S REPRESENTATIVE HAS VISITED THE SITE AND INDICATED EXACTLY THE EXTENT OF EACH COLOR.

FINISH LEGEND:

CONC-1A
EPOXY FLOOR, INDUSTRIAL THREE-PART EPOXY FLOOR SYSTEM OVER EIXSTING SLAB.

KEY PLAN



N

0 15' 30' 60'
SCALE: 1"=30'

STATE OF OKLAHOMA
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A08515
LICENSED ARCHITECT

LDG
Larson Design Group
3817 NW EXPRESSWAY
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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: A. MCFALL
DRAWN BY: A. MCFALL
CHECKED BY: Checker
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX. 76102

LARSON DESIGN GROUP
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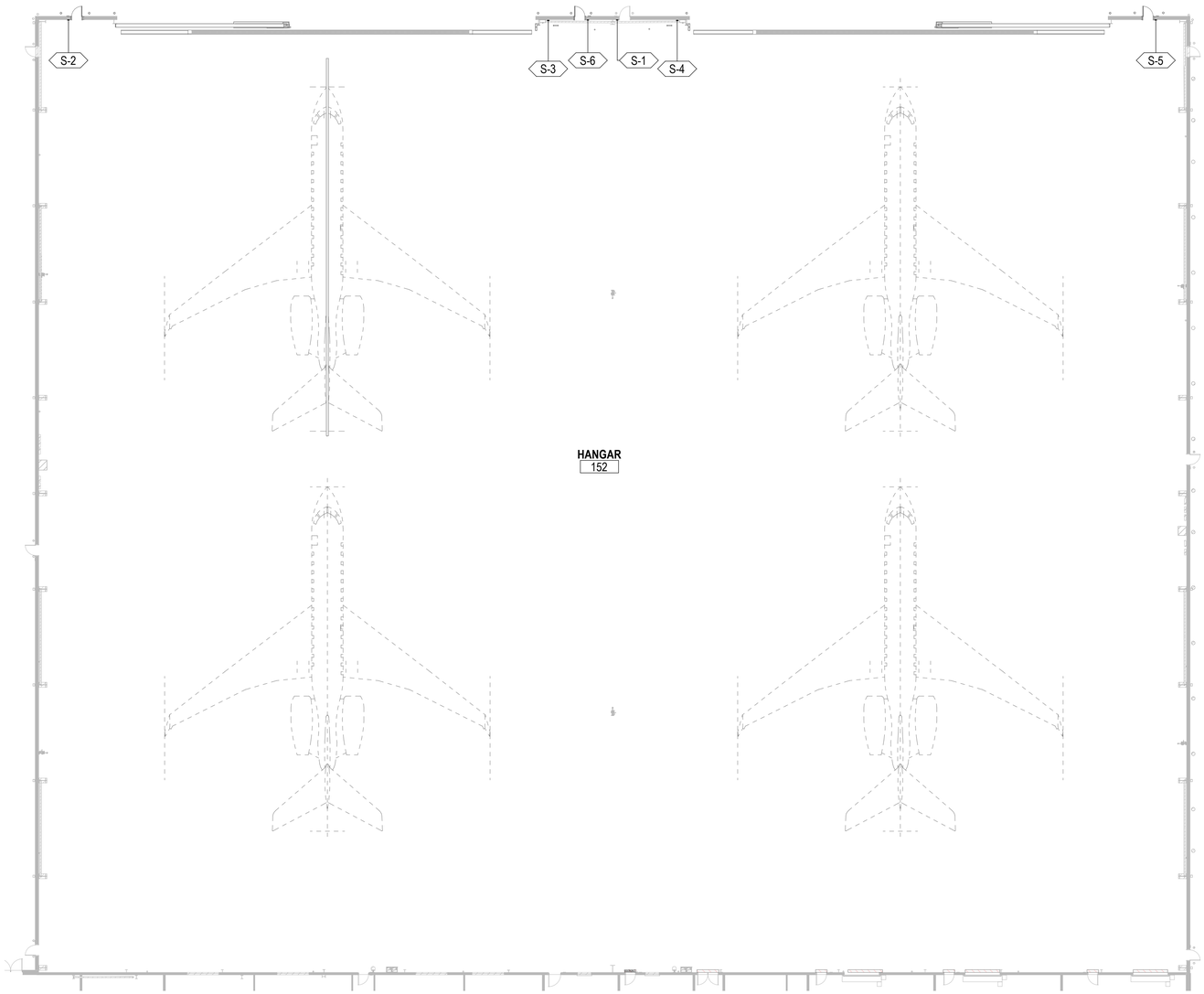
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

OVERALL FINISH FLOOR PLAN

SHEET ID
I-100

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R26 - Arch.rvt
Plot Date: 5/26/2026 3:37:03 PM



SIGNAGE SCHEDULE			
Mark	Sign Type Model	Sign Copy / Verbiage Title / Name	Type Comments
S-1	EX1	EXIT	TACTILE W/ BRAILLE
S-2	EX1	EXIT	TACTILE W/ BRAILLE
S-3	DD2	DANGER - DOORS MUST BE CLOSED IF WINDS ARE IN EXCESS OF 60 MPH	REGULATORY
S-4	DD2	DANGER - DOORS MUST BE CLOSED IF WINDS ARE IN EXCESS OF 60 MPH	REGULATORY
S-5	EX1	EXIT	TACTILE W/ BRAILLE
S-6	EX1	EXIT	TACTILE W/ BRAILLE

A1 SIGNAGE PLAN
1" = 20'-0"

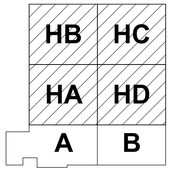
SYMBOL LEGEND:

1001 — INDICATES SIGN **MARK**. REFER SIGN SCHEDULE (**I-110**)

Suite A / A100 — INDICATES ROOM NAME AND NUMBER THAT WILL APPEAR ON PERMANENT ROOM IDENTIFICATION SIGN.

(101 Name) — INDICATES ROOM NUMBER & NAME AS THEY APPEAR IN THE REMAINDER OF BUILDING CONSTRUCTION DRAWINGS.

KEY PLAN



N

0 10' 20' 40'
SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
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US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

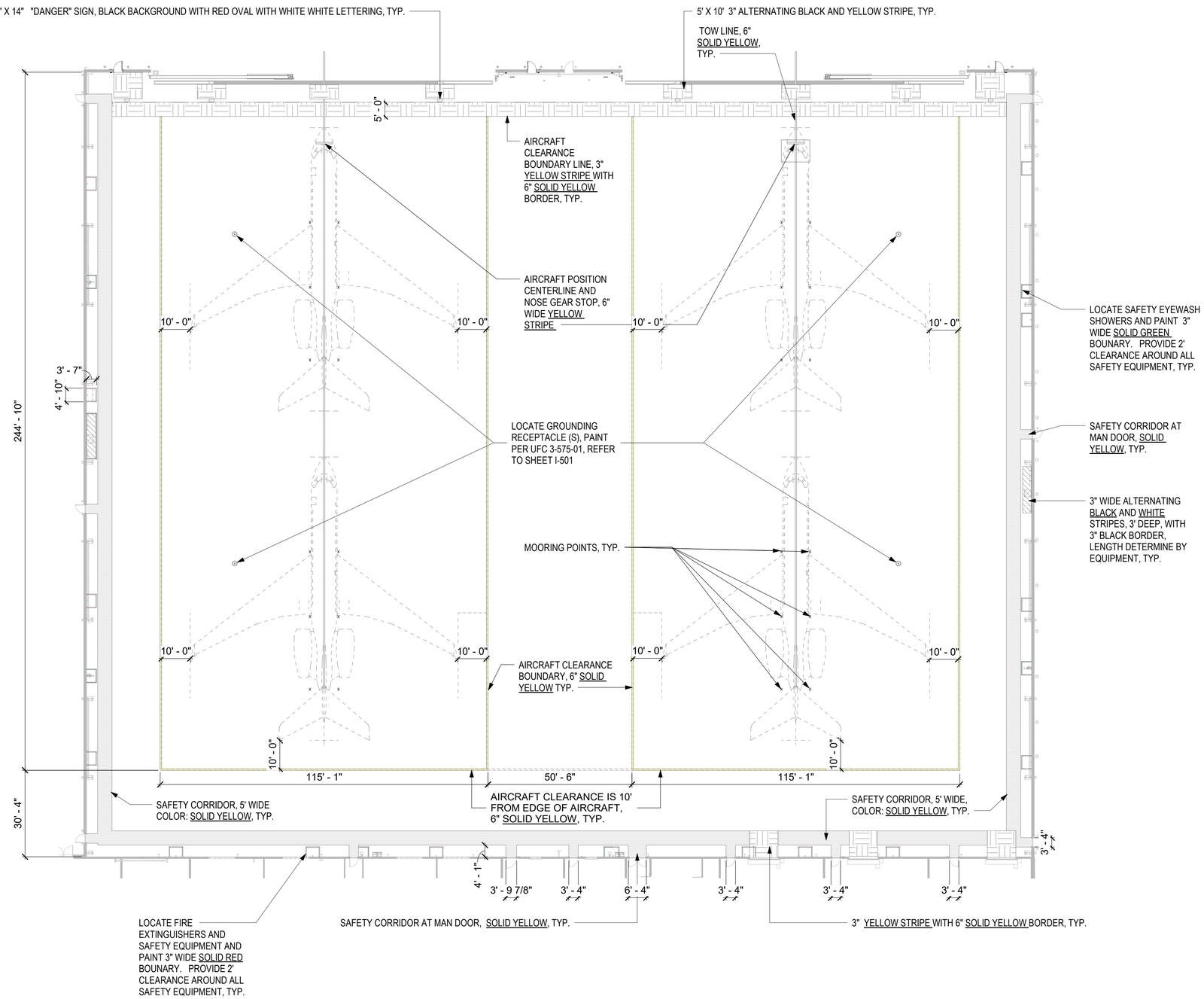
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

OVERALL SIGNAGE PLAN

SHEET ID
I-110

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:37:07 PM



A1 STRIPING PLAN

1" = 20'-0"

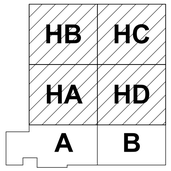
GENERAL NOTES (STRIPING):

1. REMOVE EXISTING EPOXY FLOOR AND STRIPING. PREPARE FLOOR TO RECEIVE NEW EPOXY PER MANUFACTURER'S INSTRUCTION.
2. FIELD VERIFY LOCATIONS OF GROUNDING RECEPTACLES.

STRIPING LEGEND:

- INDICATES SOLID YELLOW
- INDICATES 3" WIDE ALTERNATING BLACK AND WHITE STRIPES 3' DEEP WITH 3" SOLID BLACK BORDER, EXTENDS THE LENGTH OF EQUIPMENT
- 3" SOLID YELLOW STRIPES WITHIN A 6" SOLID YELLOW BORDER
- INDICATES 3" WIDE SOLID RED
- INDICATES 3" WIDE SOLID GREEN

KEY PLAN



N

0 10' 20' 40'

SCALE: 1"=20'

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

OVERALL STRIPING PLAN

SHEET ID

I-114

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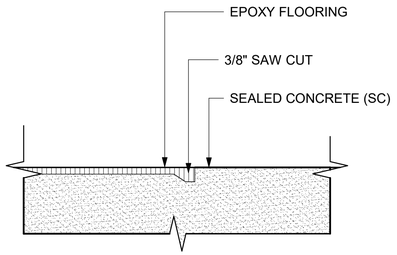
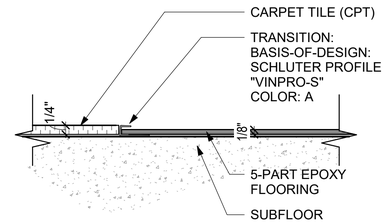


L1 TRANSITION EPOXY TO CONC

6" = 1'-0"

0 1 1/2" 3" 6"

SCALE: 6" = 1'-0"

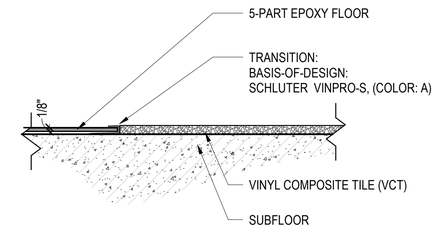


L8 TRANSITION EPOXY TO CPT

6" = 1'-0"

0 1 1/2" 3" 6"

SCALE: 6" = 1'-0"

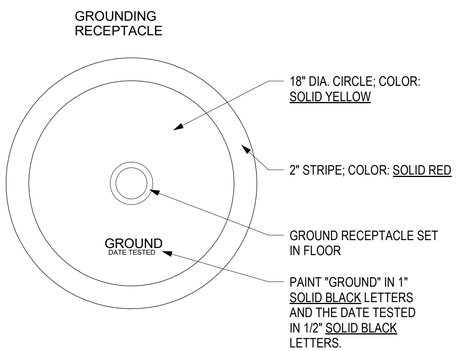


L13 TRANSITION EPOXY TO VCT

6" = 1'-0"

0 1 1/2" 3" 6"

SCALE: 6" = 1'-0"

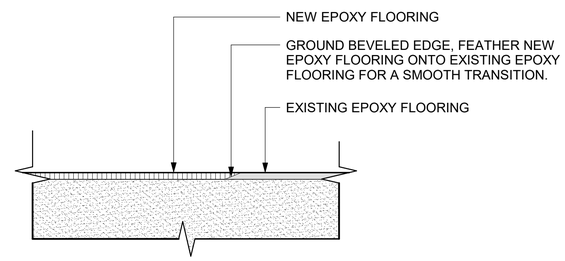


F1 SAFETY SIGN - HANGAR DOOR OPERATION

1/16" = 1'-0"

0 8'-0" 16'-0" 32'-0"

SCALE: 1/16" = 1'-0"



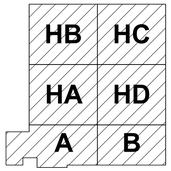
G8 TRANSITION NEW EPOXY TO EXISTING EPOXY

6" = 1'-0"

0 1 1/2" 3" 6"

SCALE: 6" = 1'-0"

KEY PLAN



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ISSUE DATE: MAY 28, 2026
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DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY: T. KURGAN
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
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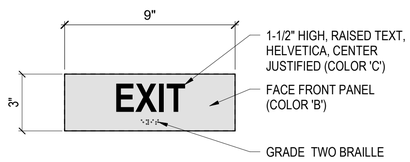
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FINISH DETAILS

SHEET ID

I-501

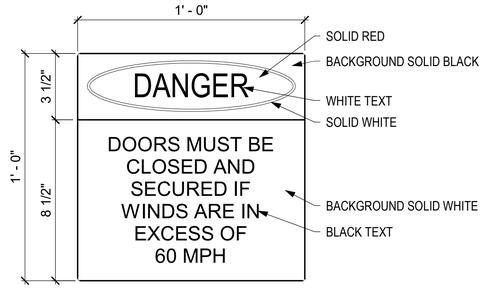


L1 SIGN EX.1 TACTILE EXIT

3" = 1'-0"

0 3" 6" 1'-0"

SCALE: 3" = 1'-0"

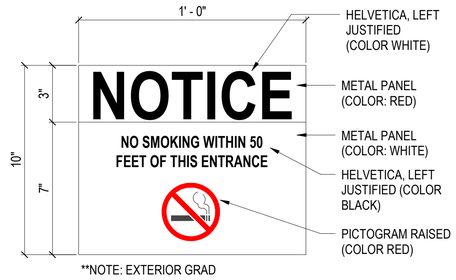


H6 SAFETY - HANGAR DOOR

3" = 1'-0"

0 3" 6" 1'-0"

SCALE: 3" = 1'-0"

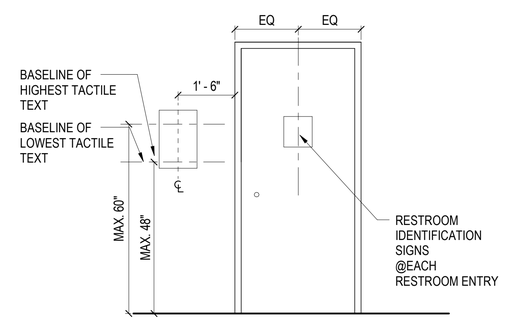


H12 SAFETY - O.8 NO SMOKING

3" = 1'-0"

0 3" 6" 1'-0"

SCALE: 3" = 1'-0"



NOTE: MOUNT SIGN ON LATCH SIDE OF DOOR. WHERE THESE IS NO WALL SPACE, INCLUDING DOUBLE LEAF DOOR, SIGN SHALL BE PLACED ON THE NEAREST WALL, PREFERABLY TO THE RIGHT.

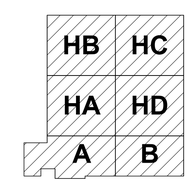
A11 ROOM ID SIGN INSTALLATION

1/2" = 1'-0"

0 1'-0" 2'-0" 4'-0"

SCALE: 1/2" = 1'-0"

KEY PLAN



PLAN NORTH

N

STATE OF OKLAHOMA
BRIAN BOURN
MAY 28, 2026
A08515
LICENSED ARCHITECT

Larson Design Group
3817 NW EXPRESSWAY
SUITE 840
OKLAHOMA CITY, OK 73112
(405) 722-7270

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Arch.rvt

Plot Date: 5/26/2026 3:37:12 PM

DESIGNED BY: A. MCFALL
DRAWN BY: A. MCFALL
CHECKED BY: Checker
SUBMITTED BY: T. KURGAN
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

LARSON DESIGN GROUP
3817 NW EXPRESSWAY, SUITE 840
OKLAHOMA CITY, OK 73112

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

SIGNAGE DETAILS

SHEET ID

I-502

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FIN.	BASE FIN.	WALLS MAT'L	WALLS FIN.	CEILING MAT'L	CEILING FIN.	COMMENTS
152	HANGAR	EP-1	NA		PT-1			HANGAR DOOR WALL ONLY

INTERIOR FINISH MATERIAL COLOR LEGEND

FLOOR FINISH MATERIAL

Code	Material	Manufacturer	Pattern / Color	Dimensions	Comments
CONC-1A	3-PART, NON-SKID, LIGHT REFLECTIVE, NON-OXIDIZING COATING: FLOROCK THICK MIL SYSTEM; FLOROPOXY & FLOROTHANE - 4700 PRIMER, 4805 INTERMEDIATE COAT, FLOROTHANE MC ULTRA 100 TOPCOAT	...	CUSTOM MATCH SW SW4005 CYLINDER CREAM - (HEX NUMBER/COLOR TBD) FINISH: GLOSS	N/A	MIN. LRV=70
CONC-1B	3-PART, NON-SKID, LIGHT REFLECTIVE, NON-OXIDIZING COATING: FLOROCK THICK MIL SYSTEM; FLOROPOXY & FLOROTHANE - 4700 PRIMER, 4805 INTERMEDIATE COAT, FLOROTHANE MC ULTRA 100 TOPCOAT		COLOR: SAFETY YELLOW, FINISH GLOSS	N/A	6" STRIPING FOR TOW-LANE CENTER AND EDGE OF AIRCRAFT PARKING MODULE
CONC-1C	3-PART, NON-SKID, LIGHT REFLECTIVE, NON-OXIDIZING COATING: FLOROCK THICK MIL SYSTEM; FLOROPOXY & FLOROTHANE - 4700 PRIMER, 4805 INTERMEDIATE COAT, FLOROTHANE MC ULTRA 100 TOPCOAT		COLOR: SAFETY RED, FINISH GLOSS	N/A	6" STRIPING FOR 10' 'SAFETY ZONE' BORDER AT PERIMETR OF MAINTENCE BAY, FIRE EXTINGUISHERS AND ALARMS
CONC-1D	3-PART, NON-SKID, LIGHT REFLECTIVE, NON-OXIDIZING COATING: FLOROCK THICK MIL SYSTEM; FLOROPOXY & FLOROTHANE - 4700 PRIMER, 4805 INTERMEDIATE COAT, FLOROTHANE MC ULTRA 100 TOPCOAT		COLOR: BLACK, FINISH GLOSS	N/A	3" STRIPING FOR PINCH POINTS AND ELECTRICAL
CONC-1E	3-PART, NON-SKID, LIGHT REFLECTIVE, NON-OXIDIZING COATING: FLOROCK THICK MIL SYSTEM; FLOROPOXY & FLOROTHANE - 4700 PRIMER, 4805 INTERMEDIATE COAT, FLOROTHANE MC ULTRA 100 TOPCOAT		COLOR: GREEN, FINISH GLOSS	N/A	SOLID GREEN AT EYEWASH STATIONS
CONC-2	SEALED CONCRETE (PAINT): LOW VOC CONCRETE SEALER		COLOR: CLEAR, FINISH GLOSS	N/A	...

WALL FINISH MATERIAL

Code	Material	Manufacturer	Pattern / Color	Dimensions	Comments
PT-1	ZERO VOC INTERIOR LATEX	...	MATCH EXISTING, FINISH: EGGSHELL - CONFIRM COLOR WITH THE ACTIVITY	...	WALLS - MIN. LRV=70
PT-2	ZERO VOC INTERIOR ACRYLIC	...	MATCH EXISTING, FINISH: SEMI-GLOSS - CONFIRM COLOR WITH THE ACITIVTY	...	DOOR FRAME

MISCELLANEOUS FINISH MATERIALS

Code	Material	Manufacturer	Pattern / Color	Dimensions	Comments
S	SIGNAGE	...	REFER TO SIGNAGE DETAILS SHEET I-501	...	INTERIOR ROOM IDENTIFICATION SIGNAGE

GENERAL FINISH MATERIAL COLOR LEGEND NOTES:

1. MATERIALS LISTED IN THE FINISH MATERIAL COLOR LEGEND ESTABLISH THE BASIS OF DESIGN MANUFACTURERS, PATTERNS AND COLORS OF INTERIOR FNISH MATERIALS.
2. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
3. NOTIFY CONTRACTING OFFICER BEFORE STARTNG TO PAINT. DO NOT BEGIN PAINTING UNTIL CONTRACTING OFFICER'S REPRESENTATIVE HAS VISITED THE SITE AND INDICATED EXACTLY THE EXTENT OF EACH COLOR.
4. REFER TO DETAILS, CEILING PLANS ETC. FOR ADDITIONAL PAINT ITEMS NOT SPECIFICALLY CALLED OUT IN THE ROOM FINISH SCHEDULE.

ABBREVIATION LEGEND

ACT	ACOUSTIC CEILING TILE
AL	ALUMINUM
ALUM	ANODIZED ALUMINUM
AWP	ACOUSTIC WALL PANEL
BRK	BRICK
CJ	CONTROL JOINTS
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET TILE
CST	CAST STONE
DCMU	DECORATIVE CONCRETE MASONRY UNIT
EJ	EXPANSION JOINTS
EPT	EPOXY PAINT
EXS	EXPOSED STRUCTURE
FRP	FIBERGLASS REINFORCED PANEL
GCMU	GLAZED CONCRETE MASONRY UNIT
GLZ	GLAZING
GLCW	GLAZED CURTAIN WALL
GRT	GROUT
GWB	GYPSUM WALLBOARD
HPL	HIGH PRESSURE LAMINATE
HR	HANDRAIL
MB	MARKER BOARD
MCS	METAL CEILING SYSTEM
MTR	MORTAR
MWP	METAL WALL PANEL
OCD	OVERHEAD COILING DOORS
PCT	PORCELAIN CERAMIC TILE
PT	PAINT
RAF	RAISED ACCESS FLOOR
RB	RUBBER BASE
RF	ROOF
RST	RUBBER STAIR TREADS AND RISERS
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SG	INTERIOR SIGNAGE
SSCG	STAINLESS STEEL CORNER GUARD
SSM	SOLID SURFACE MATERIAL
TB	TACK BOARD
TP	TOILET PARTITION
TPO	THERMOPLASTIC OLEFIN
US	URINAL SCREEN
WOC	WALK-OFF CARPET
XMT	EXTERIOR METAL TRIM
XPT	EXTERIOR PAINT
XSG	EXTERIOR SIGNAGE
--	NONE

DISCLAIMER: MANUFACTURERS NAMES ARE USED TO ESTABLISH MATERIAL, QUALITY, COLOR, AND PATTERN ONLY. THERE IS NO INTENT TO BE PROPRIETARY.

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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FINISH MATERIAL COLOR LEGEND

SHEET ID
I-601

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FIRE ALARM SHEET LIST

SHEET NO.	SHEET NAME
FA001	GENERAL FIRE ALARM INFORMATION
FAD101	FIRE ALARM DEMO FLOOR PLAN - HB
FAD102	FIRE ALARM DEMO FLOOR PLAN - HC
FA101	FIRE ALARM FLOOR PLAN - OVERALL
FA102	FIRE ALARM FLOOR PLAN - HB
FA103	FIRE ALARM FLOOR PLAN - HC

FIRE ALARM

M	MAGNETIC DOOR HOLD DEVICE
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
F	MANUAL PULL STATION; MOUNT ACCORDING TO MOUNTING HEIGHT DETAIL AT 46" TO CENTER OF DEVICE AFF. ADA COMPLIANT
F	HORN & STROBE; MOUNT SO BOTTOM OF DEVICE IS AT 80" AFF UNLESS OTHERWISE NOTED. ADA COMPLIANT
F	STROBE WITH CLEAR OR WHITE STROBE MARKED WITH THE WORD "ALERT"; MOUNT SO BOTTOM OF DEVICE IS AT 80" AFF UNLESS OTHERWISE NOTED. ADA COMPLIANT
F	SPEAKER & STROBE WITH CLEAR OR WHITE STROBE MARKED WITH THE WORD "ALERT"; MOUNT SO BOTTOM OF DEVICE IS AT 80" AFF UNLESS OTHERWISE NOTED. ADA COMPLIANT
F	FIRE ALARM CEILING MOUNTED CLEAR OR WHITE STROBE MARKED WITH THE WORD "ALERT"
S	FIRE ALARM VOICE WALL MOUNT SPEAKER
S	FIRE ALARM VOICE CEILING MOUNT SPEAKER
S	FIRE ALARM CEILING MOUNT SPEAKER STROBE WITH CLEAR OR WHITE STROBE MARKED WITH WORD "ALERT"
2	SMOKE DETECTOR
2 P	CEILING MOUNTED SMOKE DETECTOR PHOTOELECTRIC
2 D	DUCT MOUNTED SMOKE DETECTOR
HD	THERMAL HEAT DETECTOR
PIV	POST INDICATOR VALVE
B	BELL
R	SHUTDOWN RELAY WITH REMOTE TEST SWITCH
RT	SHUTDOWN RELAY AND TEST SWITCH
FMCP	COMBINATION FIRE ALARM / MASS NOTIFICATION CONTROL PANEL
LOC	REMOTE ANNUNCIATOR PANEL
TXT	MASS NOTIFICATION LED TEXT SIGN
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE

NOTE: NOT ALL FIRE ALARM SYMBOLS MAY BE USED

DEMOLITION GENERAL NOTES

A. COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.

B. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

C. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY CONTRACTING OFFICER AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID ADDITIONAL COMPENSATION WILL NOT BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION AND/OR ALLOWANCE.

D. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

E. CONTRACTING OFFICER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE CONTRACTING OFFICER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO CONTRACTING OFFICER'S DESIGNATED STORAGE LOCATION. PROPERLY DISPOSE OF MATERIALS THAT ARE REMOVED AND ARE NOT REQUESTED TO BE SALVAGED BY THE CONTRACTING OFFICER.

F. EQUIPMENT TO BE REMOVED SHALL BE KEPT FOR REINSTALLATION DURING THE CONSTRUCTION PHASE WHEN POSSIBLE AND/OR INDICATED ON THE DRAWINGS. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE GOVERNMENT.

G. SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

H. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.

I. REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.

J. SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.

K. INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY CONTRACTING OFFICER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.

L. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

FIRE ALARM REQUIRED SUBMITTALS

A. SUBMIT MANUFACTURER'S CATALOG DATA WITH PRINTED LOGO OR TRADEMARK FOR EACH TYPE OF PRODUCT TO BE PROVIDED AS PART OF THIS PROJECT. CATALOG DATA SHALL BE MARKED TO INDICATE THE TYPE, SIZE, RATING, STYLE, AND CATALOG NUMBER FOR ALL ITEMS PROPOSED TO MEET THE SYSTEM PERFORMANCE DETAILED IN THE CONTRACT DOCUMENTS. PROPOSED EQUIPMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER. REFERENCE SPECIFICATIONS FOR MORE DETAILS.

B. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.

C. COMPLY WITH RECOMMENDATIONS IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72.

D. INCLUDE PERFORMANCE PARAMETERS AND INSTALLATION DETAILS FOR EACH DETECTOR, VERIFYING THAT EACH DETECTOR IS LISTED FOR COMPLETE RANGE OF AIR VELOCITY, TEMPERATURE, AND HUMIDITY POSSIBLE WHEN AIR-HANDLING SYSTEM IS OPERATING.

E. INCLUDE PLANS DRAWN TO SCALE AND COORDINATING INSTALLATION OF DUCT SMOKE DETECTORS AND ACCESS TO THEM. SHOW PLACEMENT AND SUPPORT OF SAMPLING TUBES, DETECTOR HOUSING, AND REMOTE STATUS AND ALARM INDICATORS. LOCATE DETECTORS ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

F. INCLUDE CONTROL PANEL WIRING AND INTERCONNECTION SCHEMATICS.

G. INCLUDE FIRE ALARM SIGNALING - SERVICE EQUIPMENT RACK OR CONSOLE LAYOUT, GROUNDING SCHEMATIC AND SINGLE-LINE CONNECTION DIAGRAM.

H. INCLUDE FLOOR PLANS TO INDICATE FINAL OUTLET LOCATIONS OF EACH ADDRESSABLE DEVICE INCLUDING DEVICE ADDRESS.

I. INCLUDE COMPLETE POINT-TO-POINT WIRING DIAGRAMS SHOWING RACEWAY SIZE AND ROUTING, JUNCTION BOXES, AND CONDUCTOR SIZE AND QUANTITY.

J. INCLUDE COMPLETE SYSTEM RISER DIAGRAM.

K. INCLUDE FIRE ALARM SYSTEM OPERATIONAL MATRIX AS REFERENCED BY NFPA 72. THE MATRIX SHALL ILLUSTRATE ALL INPUT-OUTPUT EVENTS IN ASSOCIATION WITH INITIATION DEVICES. MATRIX SHALL INCLUDE SYSTEM SUPERVISORY AND TROUBLE OUTPUT FUNCTIONS.

L. THE SERVICES OF A REGISTERED PROFESSIONAL ENGINEER (PE) SHALL BE RETAINED TO REVIEW AND CERTIFY ALL DRAWINGS FOR LOCAL COMPLIANCE.

FIRE ALARM GENERAL NOTES

A. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES, THE AUTHORITY HAVING JURISDICTION. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.

B. DEVICES, PANELS, AND CONDUIT TO BE PERMANENTLY IDENTIFIED WITH A UNIQUE LABEL.

C. POWER TO ALL POWER SUPPLIES AND FIRE ALARM PANELS TO BE PROVIDED FROM A DEDICATED EMERGENCY CIRCUIT PER NFPA 72.

D. FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR THE LOCATION AND QUANTITIES OF TAMPER, PRESSURE, AND WATER FLOW SWITCHES.

E. THE NOTIFICATION APPLIANCE LOCATIONS, SPEAKER POWER TAPS, AND CANDELA RATINGS SHOWN ON THE PLANS ARE A GENERAL GUIDELINE INTENDED TO COMMUNICATE DESIGN INTENT. THE CONTRACTOR SHALL PROVIDE A QUANTITY OF APPLIANCES IN EACH ROOM WITH THE NECESSARY SPEAKER POWER TAPS AND CANDELA RATINGS TO ACHIEVE THE REQUIRED DESIGN CRITERIA. WALL OR CEILING MOUNTED APPLIANCES ARE ACCEPTABLE.

F. MAINTAIN A CLEAN, PROPER SAFE WORK ENVIRONMENT PER OSHA AND LOCAL AHJ REQUIREMENTS

G. AS NEW EQUIPMENT IS INSTALLED, LABEL IT "NOT IN SERVICE" UNTIL IT IS ACCEPTED.

H. PROTECTIVE DUST COVERS SHALL REMAIN ON ALL NEW DETECTORS UNTIL FINAL CONSTRUCTION CLEANUP IS COMPLETED.

I. PERFORM RE-ACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF ADDED OR REPLACED DEVICES AND APPLIANCES.

J. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY CONTRACTING OFFICER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

K. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.

L. DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.

M. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

N. WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING HONEYWELL SILENT KNIGHT IFP-1000. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPACTS.

COLORADO LICENSED
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JAMES WHITCOMB
05/28/2026
PROFESSIONAL ENGINEER

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DESIGNED BY: J. WHITCOMB
DRAWN BY: N. CHAPA
CHECKED BY: P. TURNER
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

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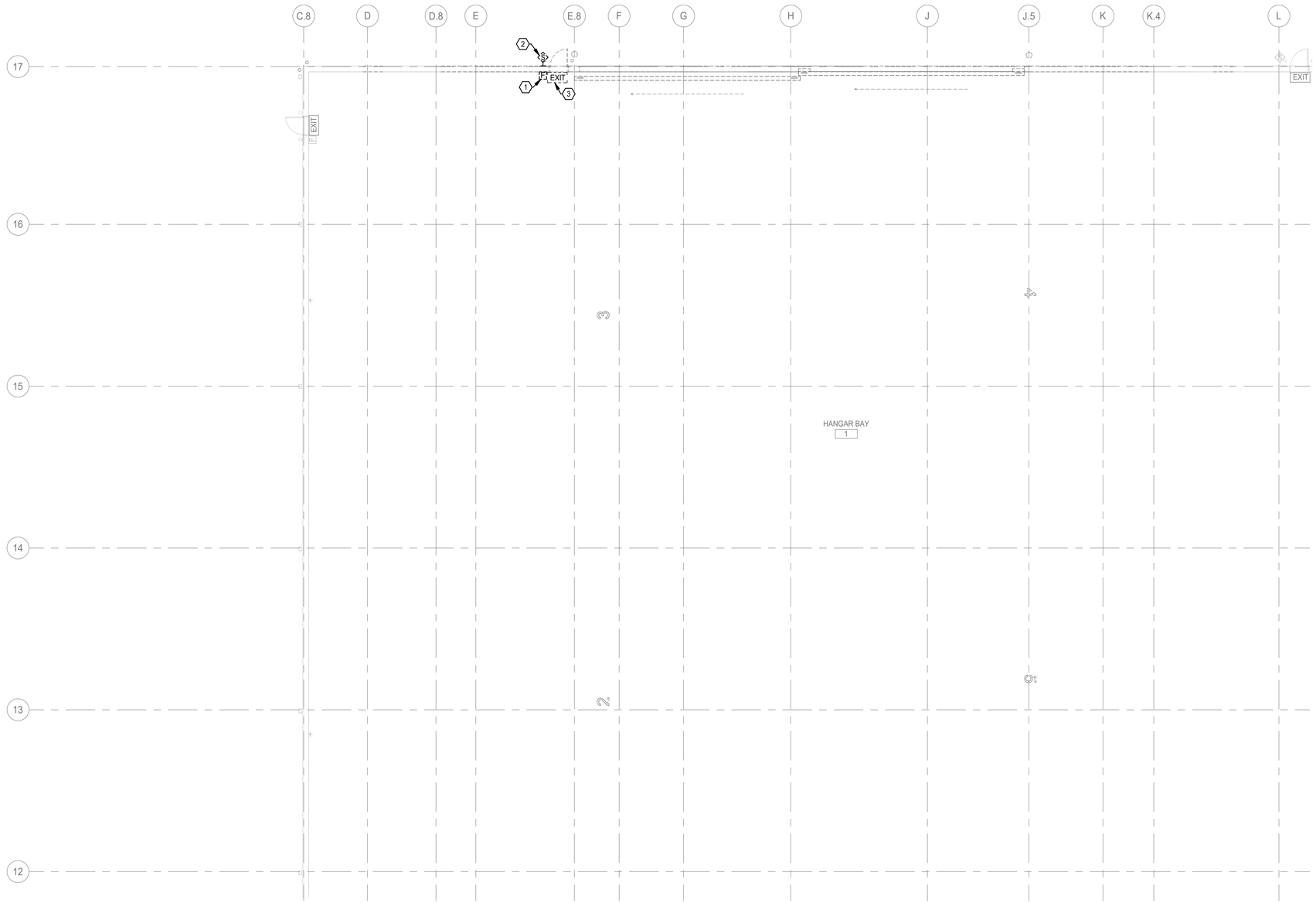
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

GENERAL FIRE ALARM INFORMATION

SHEET ID

FA001



1 FIRE ALARM DEMO FLOOR PLAN - HB
1" = 10'-0"

GENERAL SHEET NOTES

A. REFER TO SHEET FA001 FOR DEMOLITION GENERAL NOTES.

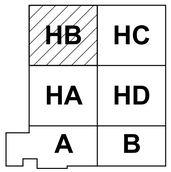
B. EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES THAT ARE NOT IN SCOPE ARE NOT SHOWN.

C. EXISTING DEVICES NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTES.

XX SHEET KEYNOTES

1. DEMOLISH EXISTING MANUAL PULL STATION ADJACENT TO HANGAR DOOR.
2. DEMOLISH EXISTING FIRE ALARM SPEAKER DEVICE.
3. REFER TO ELECTRICAL SHEETS FOR EXIT SIGNS.

KEY PLAN



N

0 5' - 0" 10' - 0" 20' - 0"
SCALE: 0' - 1" = 10' - 0"

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FIRE ALARM DEMO FLOOR PLAN - HB

SHEET ID
FAD101

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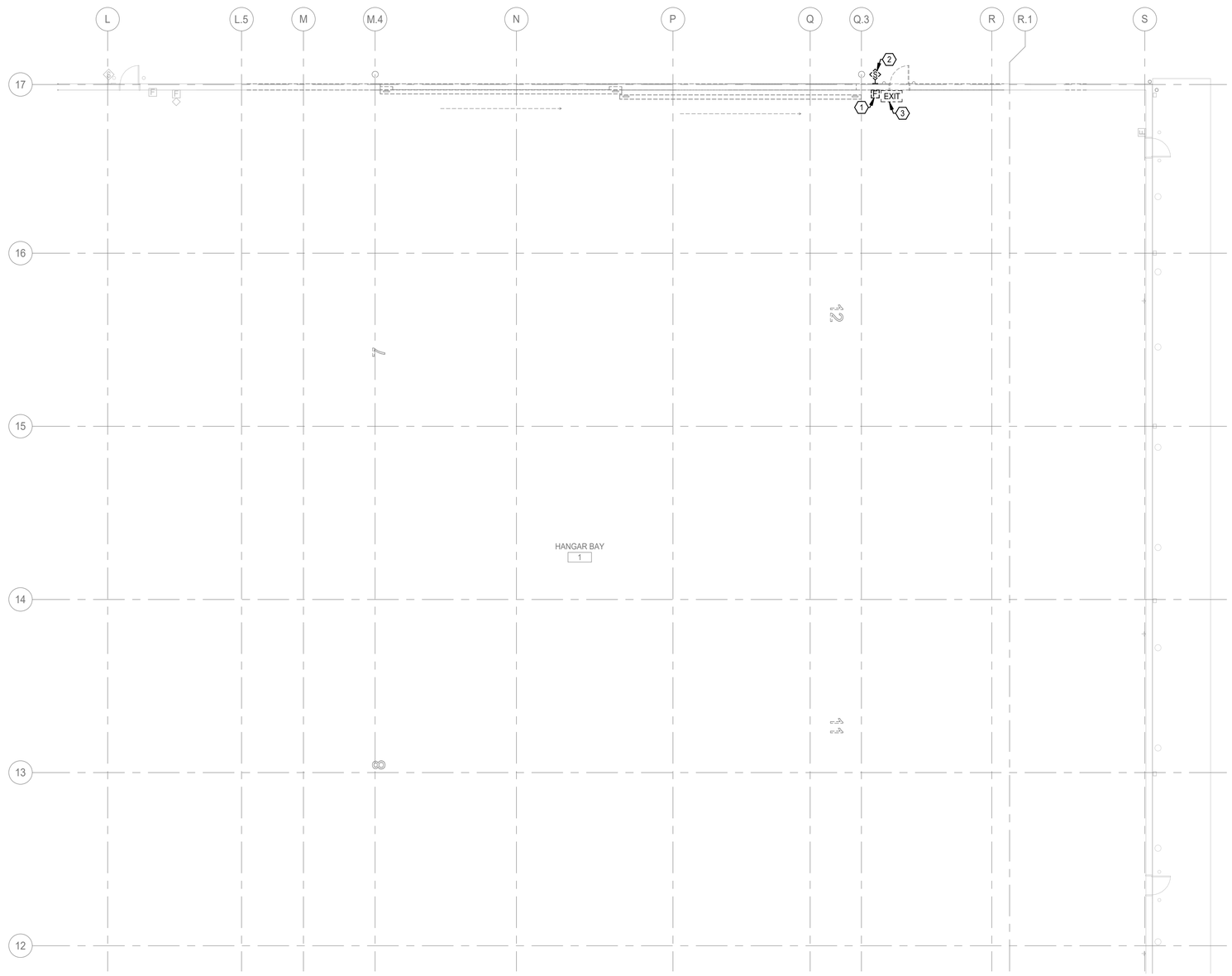

1 FIRE ALARM DEMO FLOOR PLAN - HC
1" = 10'-0"

GENERAL SHEET NOTES

A. REFER TO SHEET FA001 FOR DEMOLITION GENERAL NOTES.

B. EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES THAT ARE NOT IN SCOPE ARE NOT SHOWN.

C. EXISTING DEVICES NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.

XX SHEET KEYNOTES

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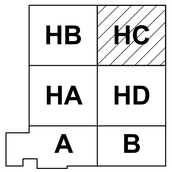

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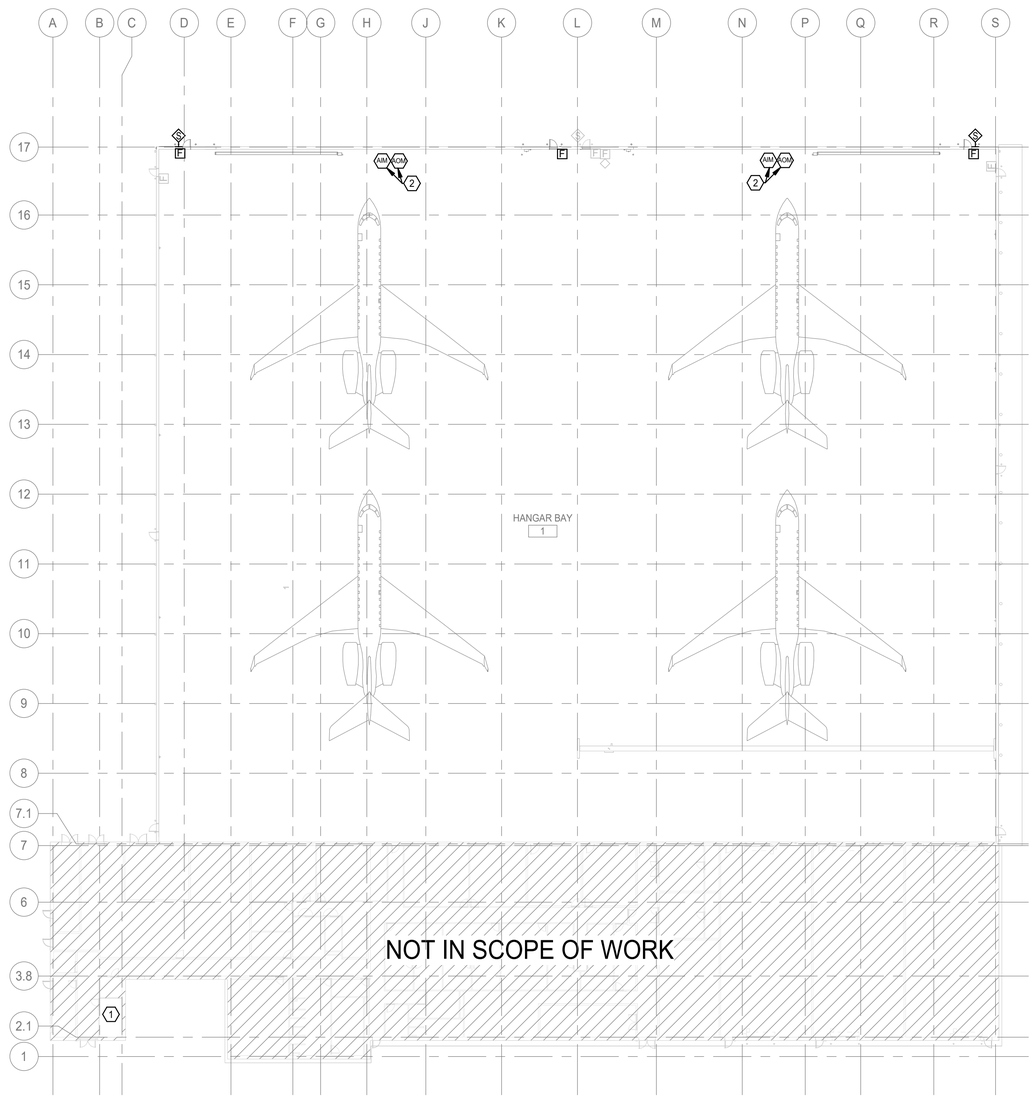
FIRE ALARM DEMO FLOOR PLAN - HC

SHEET ID
FAD102



1 FIRE ALARM FLOOR PLAN - OVERALL
1" = 30'-0"

GENERAL SHEET NOTES

A. REFER TO SHEET FA001 FOR FIRE ALARM GENERAL NOTES.

B. EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES THAT ARE NOT IN AREA OF SCOPE ARE NOT SHOWN.

C. EXISTING DEVICES NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.

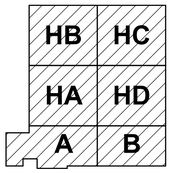
D. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING HONEYWELL SILENT KNIGHT IFP-1000 FIRE ALARM CONTROL PANEL.

XX SHEET KEYNOTES

1. LOCATION OF EXISTING HONEYWELL SILENT KNIGHT FIRE ALARM CONTROL PANEL IFP-1000, WHEELOCK SAFEPATH 4 MASS NOTIFICATION CONTROL PANEL, AND ASSOCIATED EQUIPMENT TO REMAIN.

2. PROVIDE ADDRESSABLE DUAL MONITOR MODULES TO MONITOR AND CONTROL ALL NEW HANGAR BAY DOOR EQUIPMENT. NEW HANGAR DOOR SHALL CLOSE UPON HANGAR SPRINKLER WATERFLOW SWITCH ACTIVATION.

KEY PLAN



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SCALE: 0' - 1" = 30' - 0"

COLORADO LICENSED
JAMES WHITCOMB
64076
James Whitcomb
05/28/2026
PROFESSIONAL ENGINEER

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MARK	DESCRIPTION	DATE

DESIGNED BY: J. WHITCOMB	ISSUE DATE: MAY 28, 2026
DRAWN BY: N. CHAPA	SOLICITATION NO.: W9126G26BA005
CHECKED BY: P. TUNNER	CONTRACT NO.:
SUBMITTED BY: CITRINE-OLSSON JV	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT
W9126G25F0273

FIRE ALARM FLOOR PLAN - OVERALL

SHEET ID

FA101

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Fire.rvt

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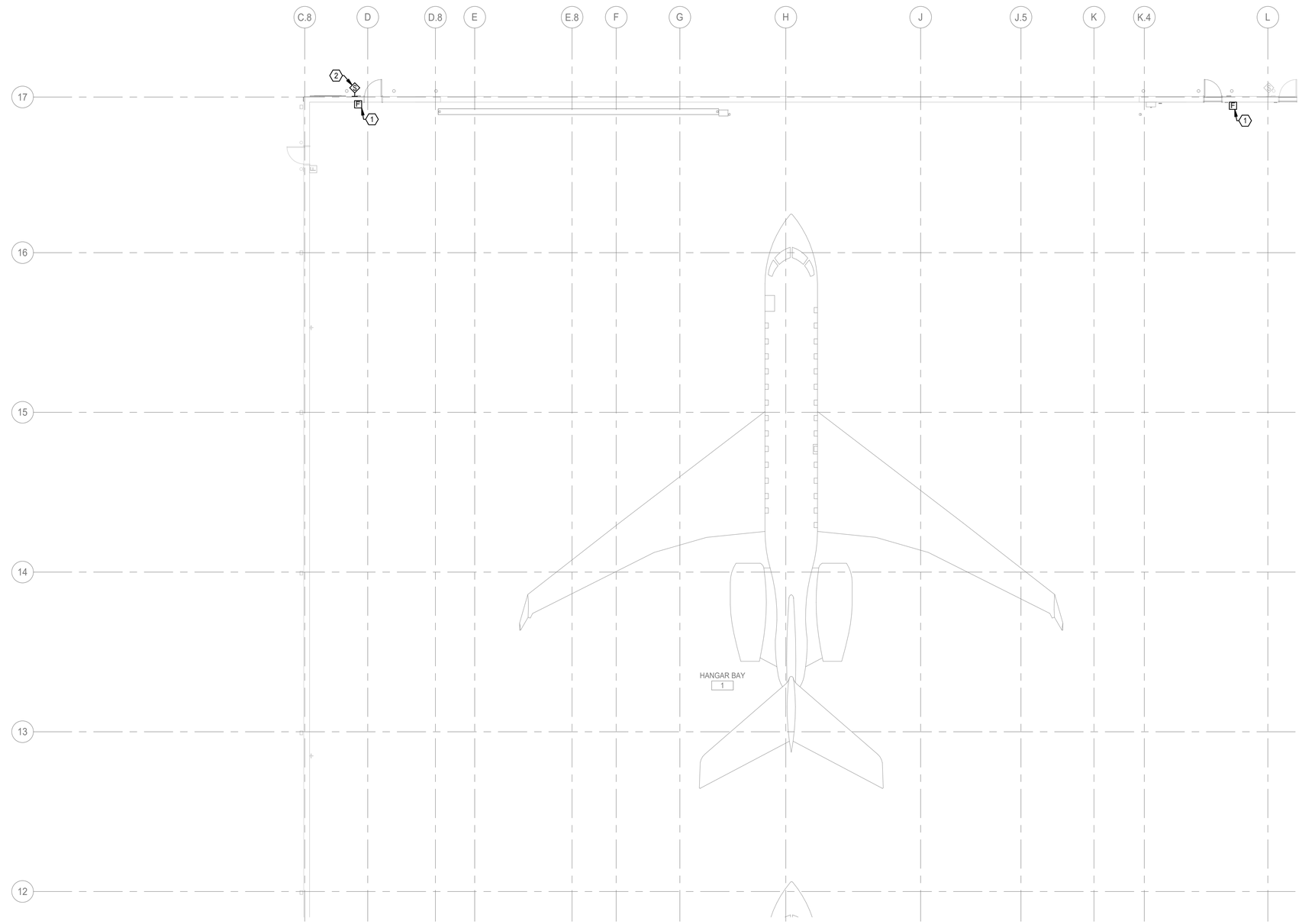

1 FIRE ALARM FLOOR PLAN - HB
1" = 10'-0"

GENERAL SHEET NOTES

A. REFER TO SHEET FA001 FOR FIRE ALARM GENERAL NOTES.

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C. EXISTING DEVICES NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.

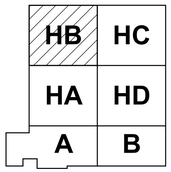
D. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING HONEYWELL SILENT KNIGHT IFP-1000 FIRE ALARM/ MASS NOTIFICATION CONTROL PANEL.

XX SHEET KEYNOTES

1. PROVIDE NEW DOUBLE-ACTION MANUAL PULL STATIONS AT NEW EXIT DOOR IN ACCORDANCE WITH UFC 3-600-01 SECTION 9-18.7.4.2.

2. PROVIDE NEW FIRE ALARM/MASS NOTIFICATION WEATHERPROOF SPEAKER IN ACCORDANCE WITH UFC 4-021-01 SECTION 5-7.1.

KEY PLAN



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GRAND JUNCTION CO, 81501

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W9126G25F0273

FIRE ALARM FLOOR PLAN - HB

SHEET ID
FA102

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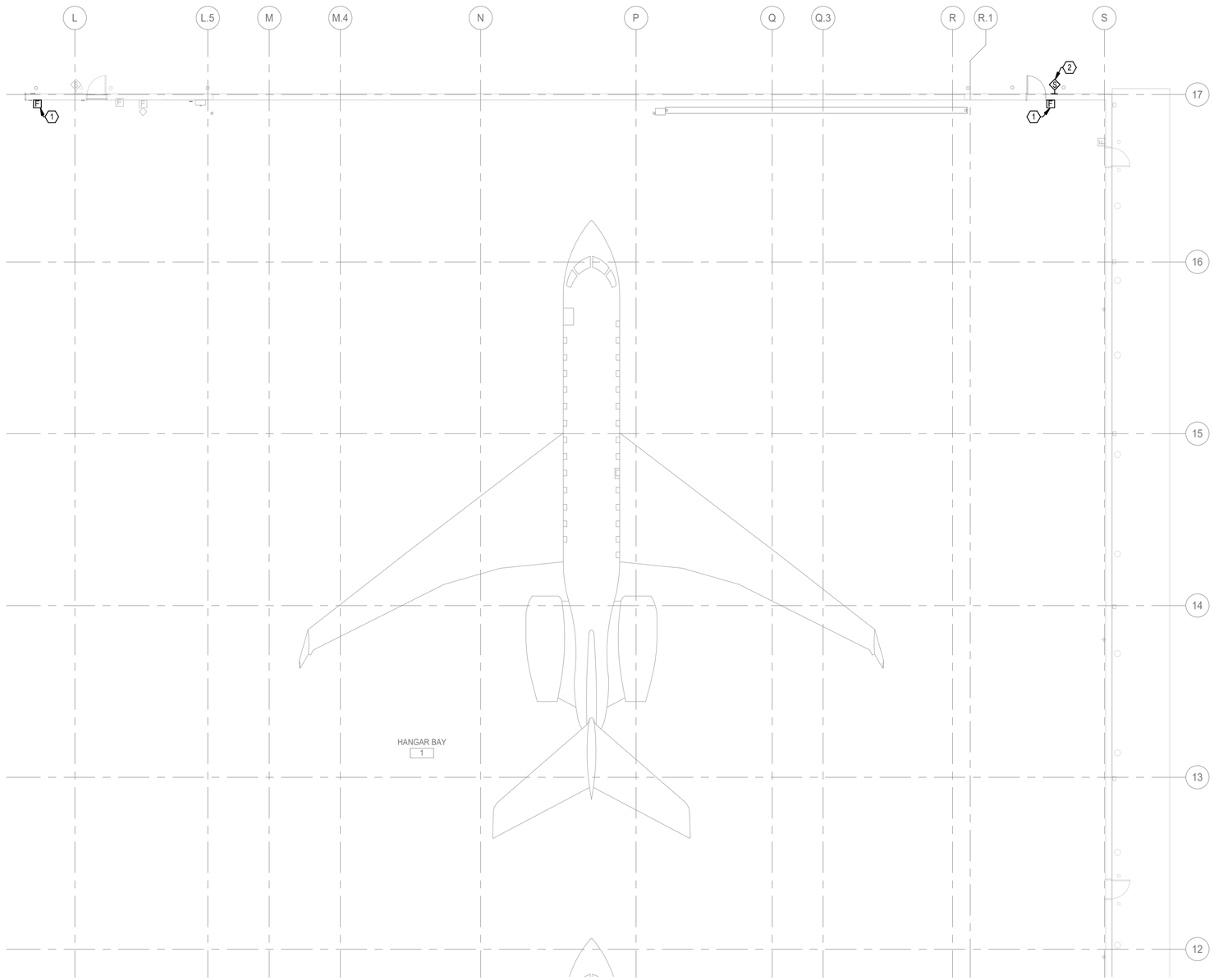

1 FIRE ALARM FLOOR PLAN - HC
1" = 10'-0"

GENERAL SHEET NOTES

A. REFER TO SHEET FA001 FOR FIRE ALARM GENERAL NOTES.

B. EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES THAT ARE NOT IN AREA OF SCOPE ARE NOT SHOWN.

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D. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING HONEYWELL SILENT KNIGHT IFP-1000 FIRE ALARM/ MASS NOTIFICATION CONTROL PANEL.

XX SHEET KEYNOTES

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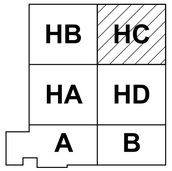

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FIRE ALARM FLOOR PLAN - HC

SHEET ID
FA103

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Plot Date: 5/26/2026 8:35:29 AM

FIRE PROTECTION SHEET LIST

SHEET NO.	SHEET NAME
FP001	GENERAL FIRE PROTECTION INFORMATION
FP101	FIRE PROTECTION FLOOR PLAN - OVERALL

DEMOLITION GENERAL NOTES

A. COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.

B. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

C. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY CONTRACTING OFFICER AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID ADDITIONAL COMPENSATION WILL NOT BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION AND/OR ALLOWANCE.

D. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

E. OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO CONTRACTING OFFICER DESIGNATED STORAGE LOCATION. PROPERLY DISPOSE OF MATERIALS THAT ARE REMOVED AND ARE NOT REQUESTED TO BE SALVAGED BY THE OWNER.

F. EQUIPMENT TO BE REMOVED SHALL BE KEPT FOR REINSTALLATION DURING THE CONSTRUCTION PHASE WHEN POSSIBLE AND/OR INDICATED ON THE DRAWINGS. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE GOVERNMENT.

G. SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

H. PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.

I. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.

J. ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE CONTRACTING OFFICER PER SPECIFICATIONS.

K. REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.

L. SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.

M. INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY CONTRACTING OFFICER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.

N. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

O. REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.

FIRE PROTECTION GENERAL NOTES

A. MODIFY THE EXISTING FIRE SUPPRESSION SYSTEM FOR THE NEW CATWALKS BEING ADDED. THE AFFF FOAM WATER CONCENTRATE FIRE SPRINKLER SYSTEM IS BEING ADDRESSED UNDER A SEPARATE PROJECT WHICH IS A TASK ORDER MANAGED BY THE HUNTSVILLE DISTRICT AND SCHEDULED FOR COMPLETION BY THE END OF FISCAL YEAR 2026. THE SCOPE OF WORK AS OUTLINED IN THE DRAWINGS IS TO BE PERFORMED AFTER THE REPLACEMENT OF THE EXISTING AFFF WITH MIL-SPEC FLUORINE FREE FOAM. THE MIL-SPEC FLUORINE FREE FOAM SYSTEM IS NON-COMPLIANT FOR A GROUP I HANGAR IN ACCORDANCE WITH NFPA 409 SECTION 8.1.1. THIS DEFICIENCY IN THE EXISTING SYSTEM HAS BEEN IDENTIFIED AND DOCUMENTED VIA RFI-015. NO CORRECTIVE MODIFICATIONS ARE INCLUDED IN THIS CONTRACT. CONTRACTOR SHALL INSTALL THE SYSTEM STRICTLY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

B. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY CONTRACTING OFFICER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

C. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

D. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, AND ENGINEER.

E. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.

F. DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.

G. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

H. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET CONTRACTING OFFICER REQUIREMENTS AT NO ADDITIONAL COST TO THE GOVERNMENT.

I. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE CONTRACTING OFFICER. COORDINATE WORK WITH ALL OTHER TRADES.

J. PROVIDE 100% FIRE SPRINKLER COVERAGE THROUGHOUT BUILDING AREA INDICATED ON CONTRACT DOCUMENTS. FIRE SPRINKLER PIPING SHALL BE DESIGNED IN ACCORDANCE WITH LOCAL BUILDING CODES, AND NFPA 13.

K. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING DETAILS. CONTRACTOR SHALL DETERMINE LOCATION, CENTER IN CEILING TILES IN LAY-IN CEILING AREAS, ALIGN WITH LIGHTS AND OTHER CEILING ELEMENTS IN HARD CEILING AREAS. COORDINATE EXACT LOCATION WITH CONTRACTING OFFICER DURING SHOP DRAWING SUBMITTAL PROCESS.

L. WHERE NOT SHOWN, PIPING LAYOUT AND SIZE SHALL BE DETERMINED BY FIRE PROTECTION CONTRACTOR.

M. SHOW ALL DUCTWORK AND OTHER OBSTRUCTIONS IN ROOMS THAT ARE WITHOUT CEILINGS ON SHOP DRAWINGS. PROVIDE COVERAGE AROUND AND UNDER ALL OBSTRUCTIONS AS REQUIRED BY NFPA 13 INCLUDING BUT NOT LIMITED TO COVERAGE UNDER DUCTWORK AND/OR OBSTRUCTIONS WIDER THAN 48". SPRINKLERS THAT ARE BELOW 7'-0" SHALL BE PROVIDED WITH WIRE CAGE GUARDS.

N. CONTRACTOR SHALL VERIFY LOCATION OF ANY EQUIPMENT, PIPING, CONDUIT, CABLE TRAY, STRUCTURAL MEMBERS, ETC. THAT MAY CONFLICT WITH ROUTING OF FIRE PROTECTION PIPING PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL SUBMIT REPORT OF CONFLICT DIRECTLY TO ENGINEER.

O. NOTIFY AND COORDINATE WITH OWNERS REPRESENTATIVE PRIOR TO SHUT-DOWN OF ANY FIRE PROTECTION UTILITY. SHUT DOWN TIME TO BE MINIMUM. NOTIFICATION SHALL BE IN WRITING A MINIMUM OF 48 HOURS PRIOR TO SHUT DOWN.

P. THE FIRE SUPPRESSION SYSTEM, AS SHOWN ON THE CONTRACT DOCUMENTS, IS SCHEMATIC IN NATURE AND INDICATES THE AREAS TO BE COVERED BY THE SUPPRESSION SYSTEMS.

Q. FIRE SPRINKLER CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER FOR HANGING REQUIREMENTS.

R. REFER TO THE FIRE PROTECTION SPECIFICATIONS FOR THE FULL REQUIREMENTS OF THIS SECTION. WHEN A CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWING OCCURS, THE REQUIREMENTS IN THE SPECIFICATIONS SHALL PREVAIL.

S. WHERE SPRINKLER HEADS ARE INSTALLED IN TILED CEILINGS, ALL HEADS SHALL BE LOCATED ON THE CENTER OR QUARTER POINTS OF THE CEILING TILE.

T. PROVIDE AND INSTALL DRAIN VALVES AT ALL LOW POINTS ON THE SPRINKLER PIPING SYSTEM PER NFPA 13 TO PROVIDE FOR COMPLETE SYSTEM DRAINAGE.

U. ALL SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE COORDINATED FOR THE INTENDED USE OF EACH ROOM/AREA IN WHICH THE SPRINKLER HEAD(S) ARE LOCATED.

V. ALL NEW SYSTEM VALVES SHALL BE ACCESSIBLE AND A MAXIMUM OF 7 FEET A.F.F. WITH THE EXCEPTION OF AUXILIARY DRAINS.

W. ALL DRAINS AND INSPECTOR'S TEST CONNECTIONS SHALL BE PIPED TO THE EXTERIOR UNLESS NOTED OTHERWISE.

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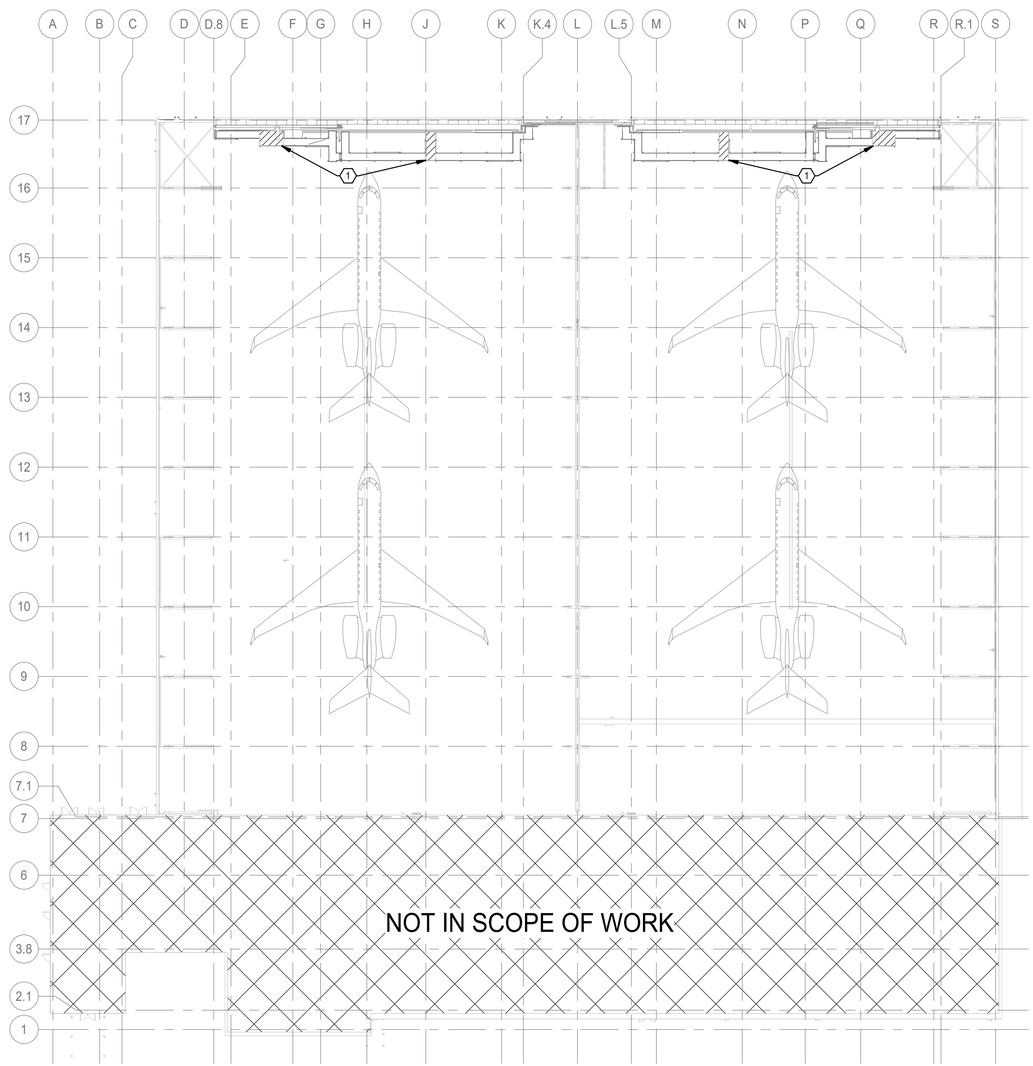
GENERAL FIRE PROTECTION INFORMATION

SHEET ID

FP001



1 FIRE PROTECTION FLOOR PLAN - OVERALL
1" = 30'-0"

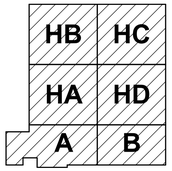
GENERAL SHEET NOTES

A. REFER TO SHEET FP001 FOR FIRE PROTECTION GENERAL NOTES.

XX SHEET KEYNOTES

1. PROVIDE SPRINKLER COVERAGE BELOW NEW CATWALK OBSTRUCTIONS OVER 4 FT WIDE IN ACCORDANCE WITH NFPA 13. SPRINKLERS SHALL BE SHIELDED FROM THE DISCHARGE OF OVERHEAD SPRINKLERS PER NFPA 13 SECTION 9.5.5.3.3.4.

KEY PLAN



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FIRE PROTECTION FLOOR PLAN - OVERALL

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GENERAL ABBREVIATIONS

A

AFF - ABOVE FINISHED FLOOR
ALT - ALTERNATE
AP - ACCESS PANEL

B

BOP - BOTTOM OF PIPE ELEV.

C

CA - COMBUSTION AIR
CAV - CONSTANT AIR VOLUME
CFM - CUBIC FEET PER MINUTE
CL - CENTERLINE
CLG - CEILING
COND - CONDENSATE/CONDENSER
CONN - CONNECTION/CONNECT
COP - CENTER OF PIPE

D

DB - DRY BULB TEMPERATURE
DDC - DIRECT DIGITAL CONTROL
DTC - DATA TERMINAL CABINET

E

EL - ELEVATION
EMCS - ENERGY MONITORING AND CONTROL SYSTEM
ESP - EXTERNAL STATIC PRESSURE
EWT - ENTERING WATER TEMP.

F

FA - FIELD ADJUSTABLE
FC - FAIL CLOSED
FD - FLOOR DRAIN
FID - FIELD INTERFACE DEVICE
FLA - FULL LOAD AMPS
FO - FAIL OPEN

G

GA - GAUGE

H

HD - HUB DRAIN

I

IE - INVERT ELEVATION

K

kW - KILOWATTS

L

LWT - LEAVING WATER TEMP.

N

NA - NOT APPLICABLE
NC - NORMALLY CLOSED
NIC - NOT IN CONTRACT
NO - NORMALLY OPEN
NPS - NOMINAL PIPE SIZE
NPT - NATIONAL PIPE THREAD
NTS - NOT TO SCALE

O

OC - ON CENTER
OED - OPEN END DUCT
OV - OUTLET VELOCITY

P

Pa - PASCALS
PaA - PASCALS ABSOLUTE
PaG - PASCALS GAUGE
PD - PRESSURE DROP

R

RA - RETURN AIR
RPM - REVOLUTIONS PER MINUTE

S

SOG - SLAB ON GRADE
SP - STATIC PRESSURE
SV - SUPPLY VALVE

T

TOP - TOP OF PIPE ELEVATION
TOS - TOP OF SLAB/ TOP OF STEEL
TSP - TOTAL STATIC PRESSURE

V

VP - VELOCITY PRESSURE
VTR - VENT THRU ROOF

W

W - WATTS
WB - WET BULB
WC - WATER COLUMN
WG - WATER GAUGE

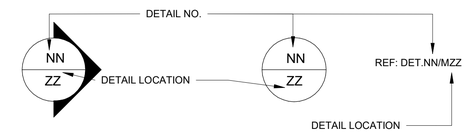
PIPING SYMBOLS

- CONTINUATION
- DROP IN PIPE
- VALVE IN RISER
- ELBOW
- ELBOW UP
- ELBOW DOWN
- TEE
- UNION
- UNION, FLANGED
- TOP CONNECTION
- BOTTOM CONNECTION
- PIPE PITCH
- VTR — VENT THRU ROOF
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PRV — PRESSURE RELIEF
- PRESSURE REDUCING VALVE
- TPRV — TEMP & PRESS RELIEF
- ANCHOR
- BALL JOINT
- EXPANSION LOOP
- GUIDE
- EXPANSION JOINT
- FLEXIBLE CONNECTOR
- PRESSURE/TEMPERATURE TEST PORT)
- NFWH — NON-FREEZING WALL HYDRANT
- FLOOR DRAIN WITH TRAP
- FD CO — FLOOR DRAIN WITH CLEANOUT
- FLOOR SINK WITH HALF GRATE
- FLOOR SINK WITH FULL GRATE
- DIRECTION OF FLOW
- FLOOR PENETRATION
- WH — WALL HYDRANT
- WCO — WALL CLEANOUT
- HB — HOSE BIB
- WATER HAMMER ARRESTOR/ACCESS
- THERMOMETER
- THERMOMETER WELL
- STRAINER W/BLOW-OFF AND HOSE CONNECTION
- PRESSURE GAUGE WITH COCK
- PS — PRESSURE SWITCH
- FS — FLOW SWITCH
- AV — AIR VENT, AUTOMATIC
- AIR VENT, MANUAL
- AS — AIR SEPARATOR
- FLOW METER, ORIFICE
- PETE'S PLUG

VALVES

- BALL VALVE
- GLOBE VALVE
- GATE VALVE
- CHECK VALVE
- PLUG VALVE
- SOLENOID VALVE
- CALIBRATED BALANCING VALVE
- AUTOMATIC BALANCING VALVE
- BUTTERFLY VALVE
- MODULATING TWO-WAY
- S — SOLENOID TWO-WAY
- THREE-WAY

REFERENCE SYMBOLOGY



PIPING SYSTEMS

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- SS — SANITARY SEWER
- V — VENT
- NG — NATURAL GAS
- A — COMPRESSED AIR
- F — FIRE PROTECTION
- NPW — NON-POTABLE WATER (PURPLE PIPE) PIPES SHALL BE MARKED WITH "NONPOTABLE WATER, DO NOT DRINK"
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- CD — CONDENSATE DRAIN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- RD — ROOF DRAIN

GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.

B. OVERHEAD PLUMBING EQUIPMENT AND SYSTEMS SHALL BE SUPPORTED TO MEET ANTI-TERRORISM/FORCE PROTECTION MEASURES OF UFC 4-010-01 AS REQUIRED BY CODE.

C. ALL FLOOR MOUNTED EQUIPMENT IN MECHANICAL ROOM SHALL BE MOUNTED ON 6" HIGH HOUSEKEEPING PADS. THESE PADS SHALL EXTEND 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT IN ALL DIRECTIONS.

D. WHERE PIPE SIZES ARE NOT INDICATED, THEY SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION). DOMESTIC COLD WATER PIPING SHALL BE LIMITED TO 5 FPS. DOMESTIC HOT WATER PIPING SHALL BE LIMITED TO 4 FPS.

E. DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT ISTHE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.

F. COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

STATE OF TEXAS
SHANNON RASMUSSEN
432018
LICENSED
PROFESSIONAL ENGINEER
MAY 28, 2026

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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Plumbing.rvt

Plot Date: 5/27/2026 3:10:07 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: JPF
DRAWN BY: JPF
CHECKED BY: SER
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

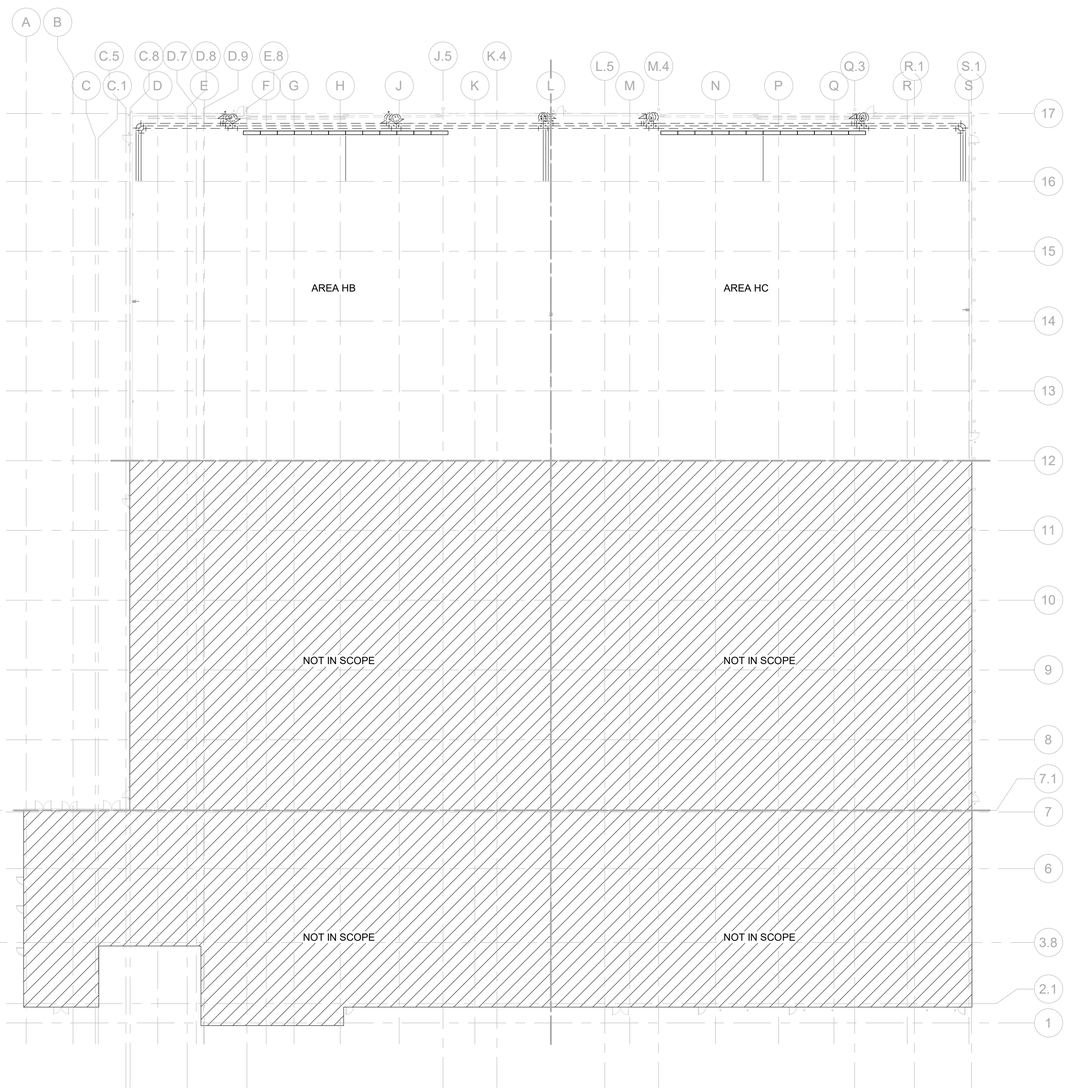
CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

PLUMBING LEGEND

SHEET ID

P-001



A1 FIRST FLOOR DEMOLTION PLAN - PLUMBING
1" = 30'-0"

PLUMBING GENERAL NOTES

A EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

B VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.

C ALL ROOF AND WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.

D REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.

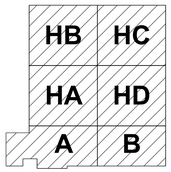
E OVERHEAD PLUMBING EQUIPMENT AND SYSTEMS SHALL BE SUPPORTED TO MEET ANTI-TERRORISM/FORCE PROTECTION MEASURES OF UFC 4-010-01.

F WHERE PIPE SIZES ARE NOT INDICATED, THEY SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION). DOMESTIC COLD WATER PIPING SHALL BE LIMITED TO 5 FPS. DOMESTIC HOT WATER PIPING SHALL BE LIMITED TO 4 FPS.

G DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.

H COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

KEY PLAN



PLAN NORTH
N

0 180" 360" 720"
SCALE: 1" = 360"

STATE OF TEXAS
SHANNON RASMUSSEN
132019
LICENSED
PROFESSIONAL ENGINEER
MAY 28, 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Plumbing.rvt

Plot Date: 5/27/2026 3:10:13 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: JPF
DRAWN BY: JPF
CHECKED BY: SRR
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

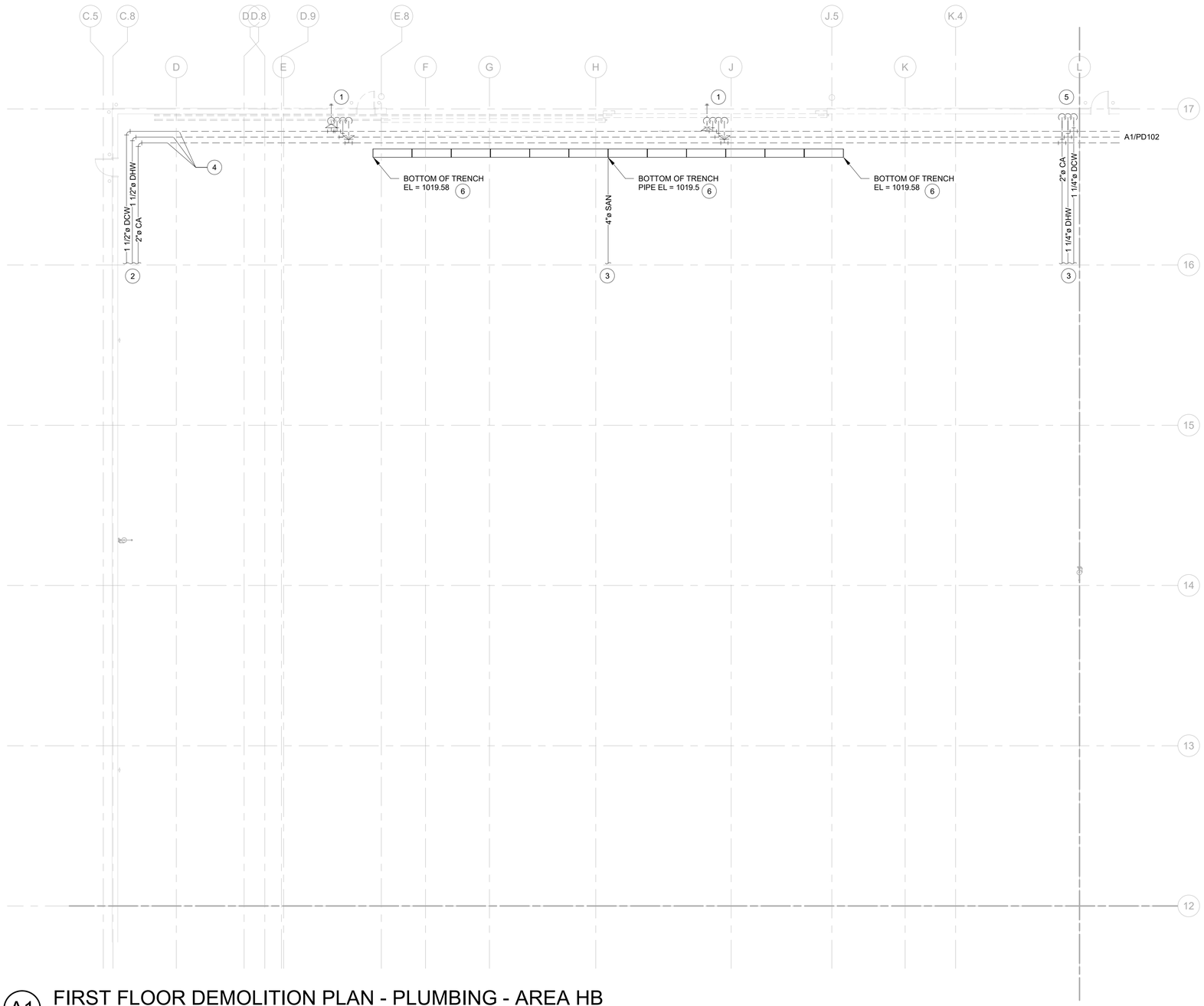
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DEMOLTION PLAN - PLUMBING - OVERALL

SHEET ID
PD100



A1 FIRST FLOOR DEMOLITION PLAN - PLUMBING - AREA HB

1" = 10'-0"

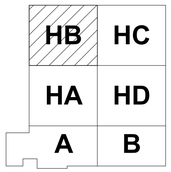
PLUMBING GENERAL NOTES

A	EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
B	VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
C	ALL ROOF AND WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
D	REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
E	OVERHEAD PLUMBING EQUIPMENT AND SYSTEMS SHALL BE SUPPORTED TO MEET ANTI-TERRORISM/FORCE PROTECTION MEASURES OF UFC 4-010-01.
F	WHERE PIPE SIZES ARE NOT INDICATED, THEY SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION). DOMESTIC COLD WATER PIPING SHALL BE LIMITED TO 5 FPS. DOMESTIC HOT WATER PIPING SHALL BE LIMITED TO 4 FPS.
G	DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.
H	COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

PD101 KEYNOTE SCHEDULE

1	REMOVE EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND COMPRESSED AIR PIPING COMPLETE AS SHOWN. RELOCATE EXISTING WALL HYDRANT AND AIR COMPRESSOR DROP TO LOCATION SHOWN ON NEW PLANS. DISPOSE OF ALL REMOVED MATERIAL OFF-SITE.
2	EXISTING ABOVEGROUND PLUMBING PIPING MAINS CONTINUED WITHIN BUILDING. CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATION PRIOR TO DEMOLTION.
3	EXISTING UNDERGROUND PLUMBING PIPING MAINS TO ASSOCIATED EQUIPMENT.
4	DEMOLISH ASSOCIATED PLUMBING PIPING MAIN BACK TO APPROXIMATE LOCATION INDICATED. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
5	DISCONNECT EXISTING PIPING BRANCHES FROM ASSOCIATED MAINS. PREPARE FOR CONNECTION TO NEW. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
6	EXISTING ELEVATIONS TAKEN FROM EXISTING AS-BUILT PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS, DIMENSIONS, ELEVATIONS, AND SLOPE OF ASSOCIATED EXISTING TRENCH DRAIN SYSTEM. SEE NEW PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
SHANNON RASMUSSEN
43201
LICENSED
PROFESSIONAL ENGINEER

MAY 28, 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: JPF
DRAWN BY: JPF
CHECKED BY: SRR
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

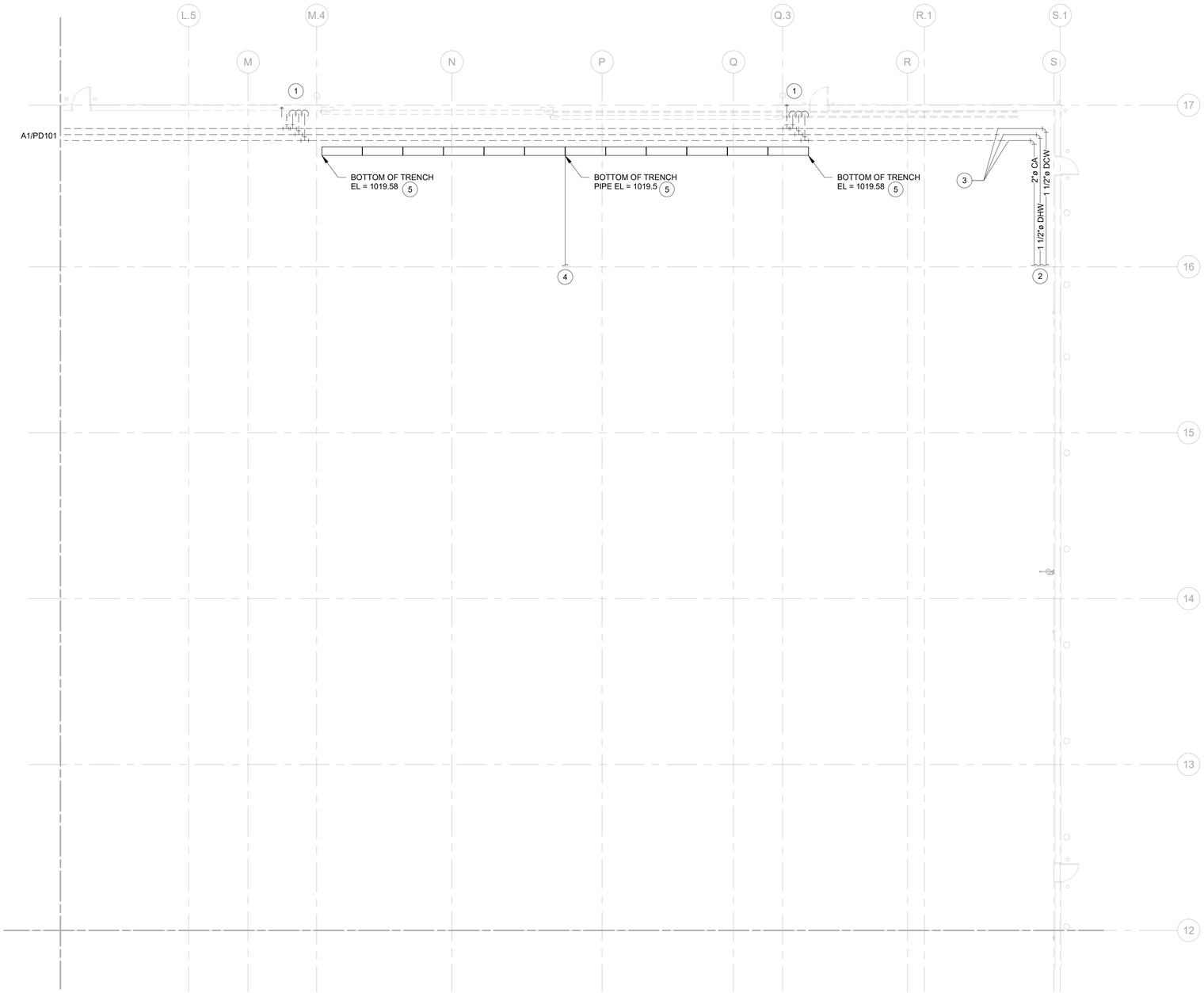
CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DEMOLITION PLAN - PLUMBING - AREA HB

SHEET ID

PD101



A1 FIRST FLOOR DEMOLITION PLAN - PLUMBING - AREA HC

1" = 10'-0"

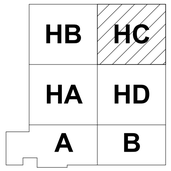
PLUMBING GENERAL NOTES

A	EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
B	VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
C	ALL ROOF AND WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
D	REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
E	OVERHEAD PLUMBING EQUIPMENT AND SYSTEMS SHALL BE SUPPORTED TO MEET ANTI-TERRORISM/FORCE PROTECTION MEASURES OF UFC 4-010-01.
F	WHERE PIPE SIZES ARE NOT INDICATED, THEY SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION). DOMESTIC COLD WATER PIPING SHALL BE LIMITED TO 5 FPS. DOMESTIC HOT WATER PIPING SHALL BE LIMITED TO 4 FPS.
G	DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.
H	COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

PD102 KEYNOTE SCHEDULE

1	REMOVE EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND COMPRESSED AIR PIPING COMPLETE AS SHOWN. RELOCATE EXISTING WALL HYDRANT AND AIR COMPRESSOR DROP TO LOCATION SHOWN ON NEW PLANS. DISPOSE OF ALL REMOVED MATERIAL OFF-SITE.
2	EXISTING ABOVEGROUND PLUMBING PIPING MAINS CONTINUED WITHIN BUILDING. CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATION PRIOR TO DEMOLTION.
3	DEMOLISH ASSOCIATED PLUMBING PIPING MAIN BACK TO APPROXIMATE LOCATION INDICATED. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
4	EXISTING UNDERGROUND PLUMBING PIPING MAINS TO ASSOCIATED EQUIPMENT.
5	EXISTING ELEVATIONS TAKEN FROM EXISTING AS-BUILT PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS, DIMENSIONS, ELEVATIONS, AND SLOPE OF ASSOCIATED EXISTING TRENCH DRAIN SYSTEM. SEE NEW PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
SHANNON RASMUSSEN
132019
LICENSED
PROFESSIONAL ENGINEER

MAY 28, 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
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DESIGNED BY: JPF
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CHECKED BY: SBR
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DEMOLITION PLAN - PLUMBING - AREA HC

SHEET ID

PD102

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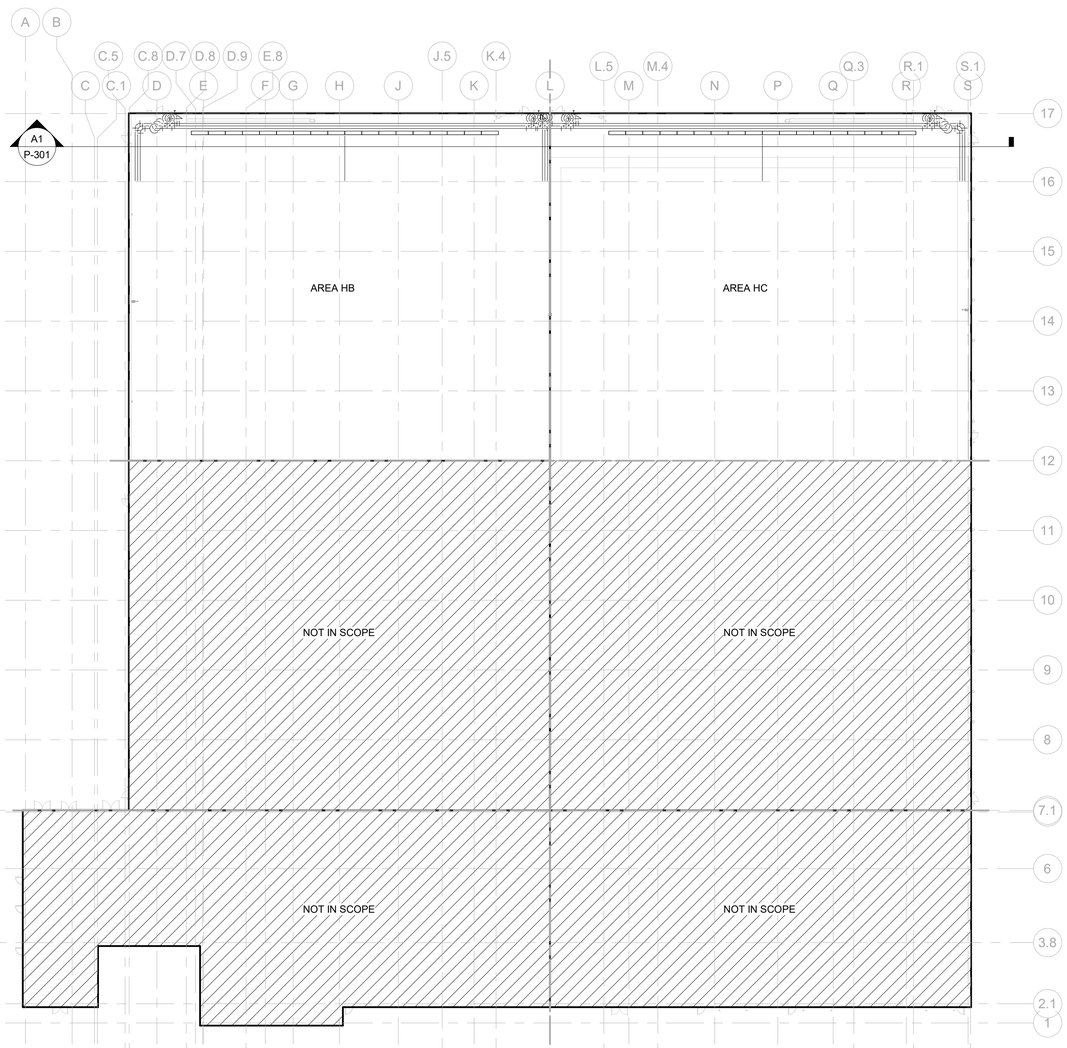
Plot Date: 5/27/2026 3:10:15 PM



A1 FIRST FLOOR PLAN - PLUMBING - OVERALL

1" = 30'-0"

PLUMBING GENERAL NOTES

A EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

B VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.

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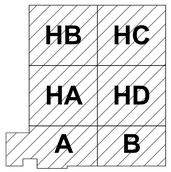
H COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

KEY PLAN



PLAN NORTH

N

0 180" 360" 720"

SCALE: 1" = 360"

STATE OF TEXAS
SHANNON RASMUSSEN
132019
LICENSED
PROFESSIONAL ENGINEER

MAY 28, 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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Plot Date: 5/27/2026 3:10:08 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: JPF
DRAWN BY: JPF
CHECKED BY: SBR
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

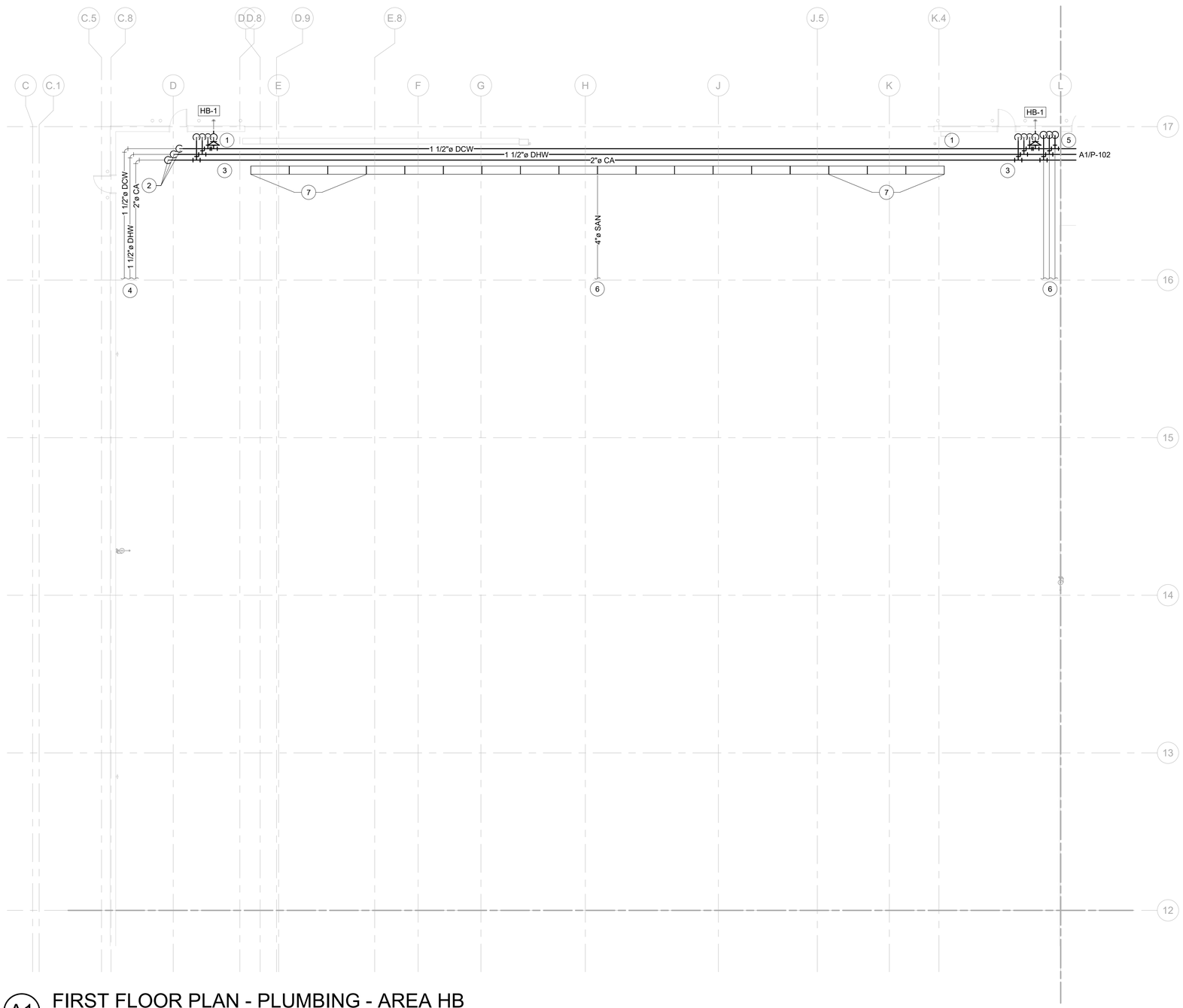
CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - PLUMBING - OVERALL

SHEET ID

P-100



A1 FIRST FLOOR PLAN - PLUMBING - AREA HB

1" = 10'-0"

PLUMBING GENERAL NOTES

A EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

B VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.

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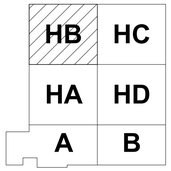
G DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.

H COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

P-101 KEYNOTE SCHEDULE

1	NEW LOCATION OF EXISTING FREEZE-PROOF WALL HYDRANT AND 3/4" DCW PIPING, COMPRESSED AIR DROP INLET/OUTLET AND 2" COMPRESSED AIR PIPING. DOMESTIC COLD WATER DROP WITH 1-1/2" DCW PIPING AND DOMESTIC HOT WATER DROP WITH 1-1/2" DHW PIPING. MATCH EXISTING CONDITIONS TO PROVIDE A COMPLETE AND WORKING SYSTEM TO MATCH ORIGINAL INTENTION. PROVIDE WITH SHUT-OFF VALVES AT ACCESSIBLE LOCATIONS (APPROXIMATELY 4 FEET AFF, ADJUSTABLE). SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
2	EXTEND AND CONNECT NEW PIPING MAINS TO EXISTING PIPING IN APPROXIMATE LOCATION SHOWN. SEE A1/P-301 FOR ADDITIONAL INFORM
3	PIPING MAINS SHALL CLEAR NEW HANGAR DOOR AND ASSOCIATED EQUIPMENT AND STRUCTURAL ELEMENTS. PIPING MAINS SHALL BE AS ACCESSIBLE AS POSSIBLE BY NEW CATWALK(S). COORDINATE WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO CONSTRUCTION.
4	EXISTING ABOVEGROUND PLUMBING PIPING MAINS CONTINUED WITHIN BUILDING. CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATION PRIOR TO DEMOLTION.
5	CONNECT NEW 2" COMPRESSED AIR PIPING, 1-1/2" DOMESTIC COLD WATER PIPING, AND 1-1/2" DOMESTIC HOT WATER PIPING TO EXISTING UNDERGROUND MAINS AT APPROXIMATE LOCATION SHOWN. PROVIDE SHUT-OFF VALVES AT ACCESSIBLE LOCATIONS (APPROXIMATELY 4 FEET AFF, ADJUSTABLE) IF REMOVED DURING DEMOLITION. SEE A1/P-301 PLANS FOR ADDITIONAL INFORMATION.
6	EXISTING UNDERGROUND PLUMBING PIPING MAINS TO ASSOCIATED EQUIPMENT.
7	EXISTING TRENCH DRAIN SYSTEM SHALL BE EXTENDED TO ACCOMMODATE FULL LENGTH OF NEW HANGAR DOOR. PLUMBING CONTRACTOR TO COVER NEWLY INSTALLED TRENCH DRAIN WITH GRATE TO MATCH EXISTING CONDITIONS. STRUCTURAL CONTRACTOR SHALL MATCH EXISTING SLOPE AND VERIFY FINAL DIMENSIONS REQUIRED PRIOR TO CONSTRUCTION. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE:1" = 120"

STATE OF TEXAS
SHANNON RASMUSSEN
132018
LICENSED
PROFESSIONAL ENGINEER
MAY 28, 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO. 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - PLUMBING - AREA HB

SHEET ID

P-101

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Plumbing.rvt

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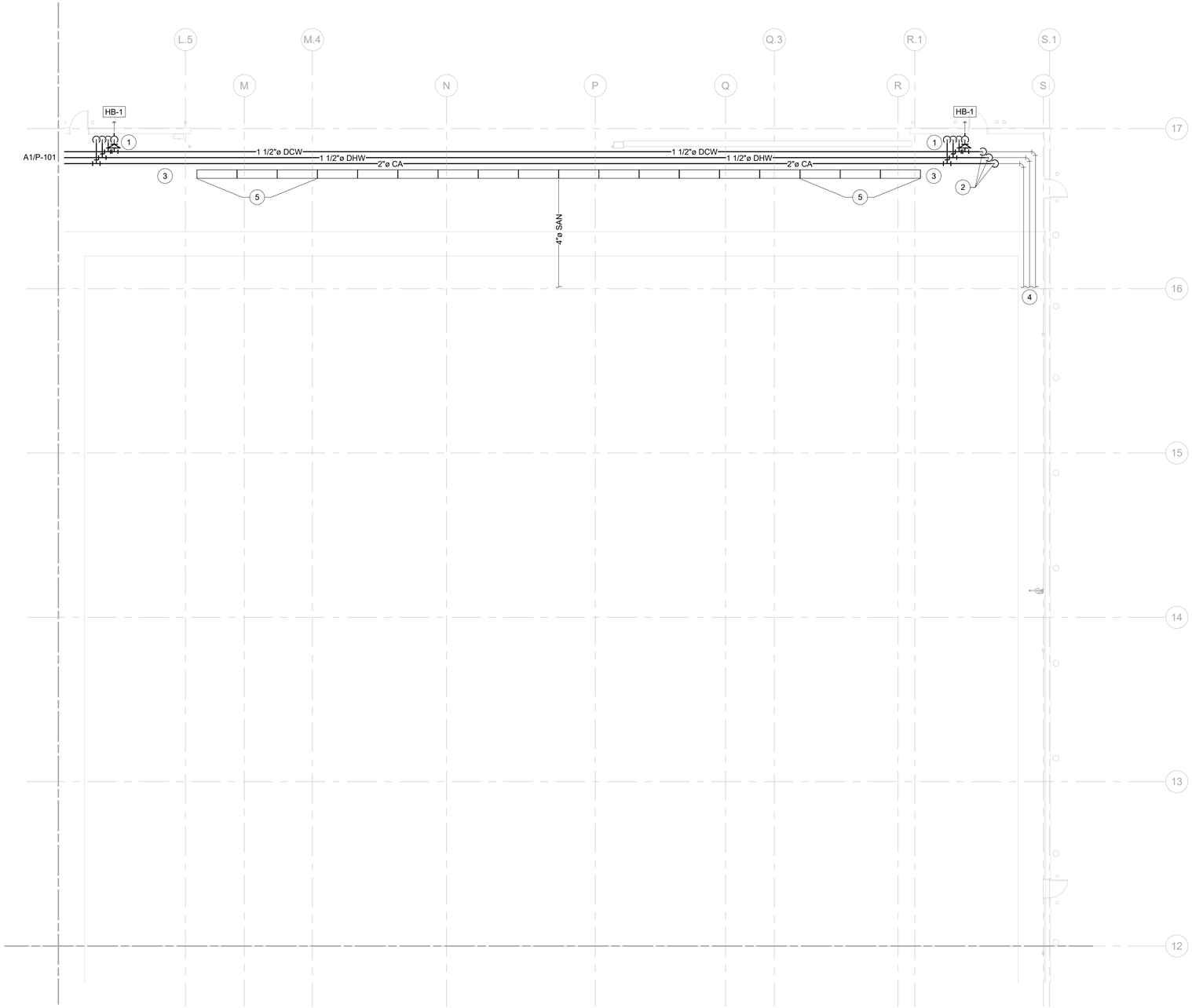

A1 FIRST FLOOR PLAN - PLUMBING - AREA HC

1" = 10'-0"

PLUMBING GENERAL NOTES

A	EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
B	VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
C	ALL ROOF AND WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
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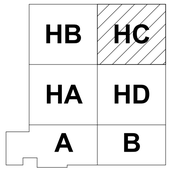
G	DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.
H	COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

P-102 KEYNOTE SCHEDULE

1	NEW LOCATION OF EXISTING FREEZE-PROOF WALL HYDRANT AND 3/4" DCW PIPING, COMPRESSED AIR DROP INLET/OUTLET AND 2" COMPRESSED AIR PIPING, DOMESTIC COLD WATER DROP WITH 1-1/2" DCW PIPING AND DOMESTIC HOT WATER DROP WITH 1-1/2" DHW PIPING. MATCH EXISTING CONDITIONS TO PROVIDE A COMPLETE AND WORKING SYSTEM TO MATCH ORIGINAL INTENTION. PROVIDE WITH SHUT-OFF VALVES AT ACCESSIBLE LOCATIONS (APPROXIMATELY 4 FEET AFF, ADJUSTABLE). SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
2	EXTEND AND CONNECT NEW PIPING MAINS TO EXISTING PIPING IN APPROXIMATE LOCATION SHOWN. SEE A1/P-301 FOR ADDITIONAL INFORM
3	PIPING MAINS SHALL CLEAR NEW HANGAR DOOR AND ASSOCIATED EQUIPMENT AND STRUCTURAL ELEMENTS. PIPING MAINS SHALL BE AS ACCESSIBLE AS POSSIBLE BY NEW CATWALK(S). COORDINATE WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO CONSTRUCTION.
4	EXISTING ABOVEGROUND PLUMBING PIPING MAINS CONTINUED WITHIN BUILDING. CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATION PRIOR TO DEMOLTION.
5	EXISTING TRENCH DRAIN SYSTEM SHALL BE EXTENDED TO ACCOMMODATE FULL LENGTH OF NEW HANGAR DOOR. PLUMBING CONTRACTOR TO COVER NEWLY INSTALLED TRENCH DRAIN WITH GRATE TO MATCH EXISTING CONDITIONS. STRUCTURAL CONTRACTOR SHALL MATCH EXISTING SLOPE AND VERIFY FINAL DIMENSIONS REQUIRED PRIOR TO CONSTRUCTION. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
SHANNON RASMUSSEN
43218
LICENSED
PROFESSIONAL ENGINEER

MAY 28, 2026

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Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Plumbing.rvt

Plot Date: 5/27/2026 3:10:11 PM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

DESIGNED BY: JPF
DRAWN BY: JPF
CHECKED BY: SRR
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

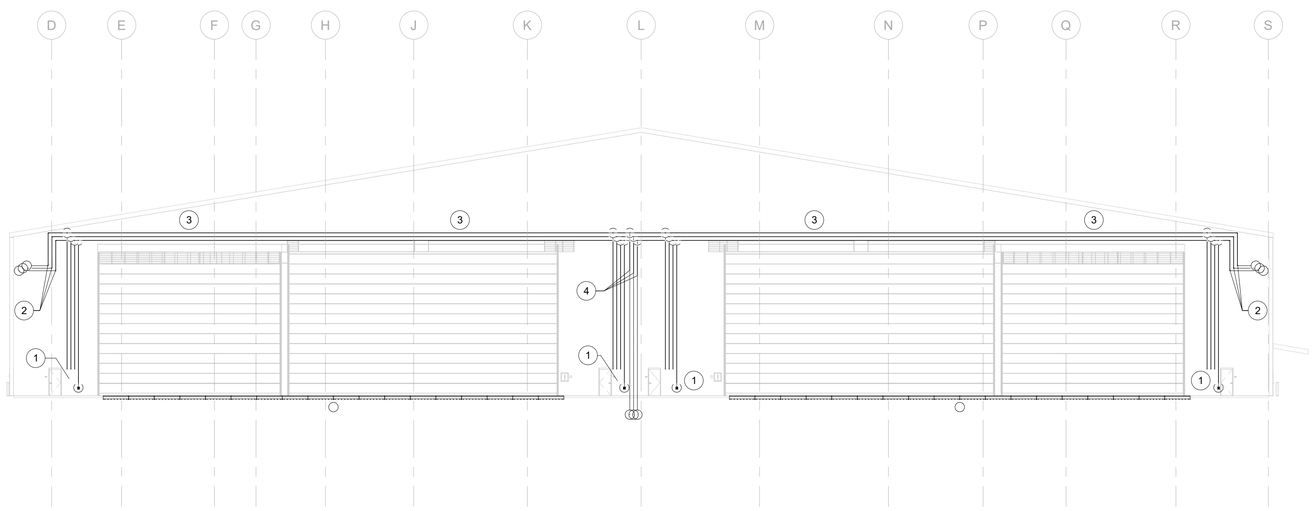
CITRINE-OLSSON
2801 GRAND AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - PLUMBING - AREA HC

SHEET ID

P-102



A1 HANGAR DOOR PLUMBING SCHEMATIC SECTION

1" = 20'-0"

PLUMBING GENERAL NOTES

A EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

B VERIFY ALL EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.

C ALL ROOF AND WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.

D REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.

E OVERHEAD PLUMBING EQUIPMENT AND SYSTEMS SHALL BE SUPPORTED TO MEET ANTI-TERRORISM/FORCE PROTECTION MEASURES OF UFC 4-010-01.

F WHERE PIPE SIZES ARE NOT INDICATED, THEY SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION). DOMESTIC COLD WATER PIPING SHALL BE LIMITED TO 5 FPS. DOMESTIC HOT WATER PIPING SHALL BE LIMITED TO 4 FPS.

G DRAWINGS ARE SCHEMATIC AND ARE TO SHOW DESIGN INTENT, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLACEMENTS.

H COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO DEMOLITION AND CONSTRUCTION.

P-301 KEYNOTE SCHEDULE

1	NEW LOCATION OF EXISTING FREEZE-PROOF WALL HYDRANT AND 3/4" DCW PIPING, COMPRESSED AIR DROP INLET/OUTLET AND 2" COMPRESSED AIR PIPING. DOMESTIC COLD WATER DROP WITH 1-1/2" DCW PIPING AND DOMESTIC HOT WATER DROP WITH 1-1/2" DHW PIPING. MATCH EXISTING CONDITIONS TO PROVIDE A COMPLETE AND WORKING SYSTEM TO MATCH ORIGINAL INTENTION. PROVIDE WITH SHUT-OFF VALVES AT ACCESSIBLE LOCATIONS (APPROXIMATELY 4 FEET AFF, ADJUSTABLE). SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
2	EXTEND AND CONNECT NEW PIPING MAINS TO EXISTING PIPING IN APPROXIMATE LOCATION SHOWN. PROVIDE FULL SIZE PIPING MAINS AT EACH POINT AND THROUGHOUT TO FINAL CONNECTION POINT. CONTRACTOR SHALL VERIFY EXACT SIZES PRIOR TO CONSTRUCTION. SEE PLANS FOR ADDITIONAL INFORMATION.
3	PIPING MAINS SHALL CLEAR NEW HANGAR DOOR AND ASSOCIATED EQUIPMENT AND STRUCTURAL ELEMENTS. PIPING MAINS SHALL BE AS ACCESSIBLE AS POSSIBLE BY NEW CATWALK(S). COORDINATE WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO CONSTRUCTION.
4	CONNECT NEW 2" COMPRESSED AIR PIPING, 1-1/2" DOMESTIC COLD WATER PIPING, AND 1-1/2" DOMESTIC HOT WATER PIPING TO EXISTING UNDERGROUND MAINS AT APPROXIMATE LOCATION SHOWN. PROVIDE SHUT-OFF VALVES AT ACCESSIBLE LOCATIONS (APPROXIMATELY 4 FEET AFF, ADJUSTABLE) IF REMOVED DURING DEMOLITION. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
SHANNON RASMUSSEN
43201
LICENSED
PROFESSIONAL ENGINEER
MAY 28, 2026

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US Army Corps of Engineers ®

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FORT WORTH DISTRICT
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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

PLUMBING SECTION

SHEET ID

P-301

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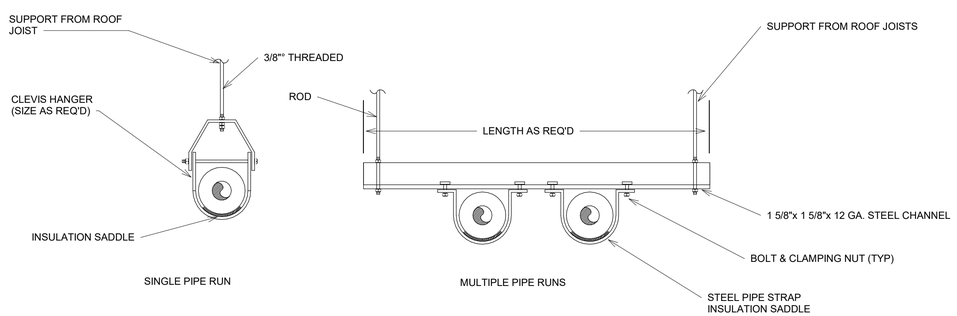
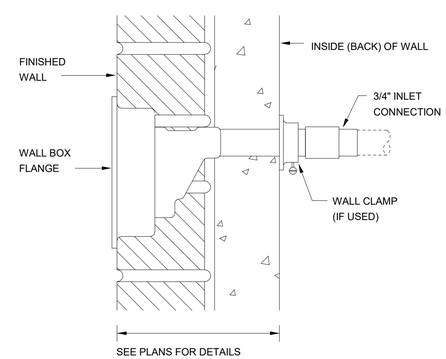


A1 PIPE SUPPORT SYSTEM
NTS



A11 FREEZEPROOF WALL HYDRANT DETAIL
NTS

STATE OF TEXAS
SHANNON RASMUSSEN
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MAY 28, 2026

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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

PLUMBING DETAILS

SHEET ID
P-501

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Plumbing.rvt
Plot Date: 5/27/2026 3:10:12 PM

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MOUNTING	DCW	DHW	VENT	WASTE	TRAP	COMMENTS
HB-1	FREEZE-PROOF WALL HYDRANT	WALL MOUNTED	3/4"	-	-	-	-	3/4" DCW CONNECTION. ANTI-SIPHON. SHOWN ONLY FOR AS REQUIRED REPLACEMENT PURPOSES.

MAY 28, 2026

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MARK	DESCRIPTION	DATE

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CONTRACT NO.:

DESIGNED BY: JPF
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SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

PLUMBING SCHEDULES

SHEET ID

P-601

DRAWING ABBREVIATIONS

A	AMPERE
AC	ANALYSIS CONTROL SWITCH
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATION TEMPERATURE
AIP	ANALYSIS INDICATION PHASE
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
A/C	ABOVE COUNTER
C	CONDUIT
C/W	COMPLETE WITH
CIR	CIRCUIT
CU	COPPER
DIV	DIVISION
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRIC METALLIC TUBING
EA	VOLTAGE ALARM
ES	VOLTAGE SWITCH
ER	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
FRC	FLOW RATIO CONTROL
FI	FLOW INDICATION SWITCH
FS	FLOW SWITCH
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GND	GROUND
HC	HAND CONTROL
HP	HORSEPOWER
HZ	HERTZ
IECC	INTERNAL ENERGY CONSERVATION CODE
IMC	INTERMEDIATE METALLIC CONDUIT
IN	INCHES
KC	TIME INDICATION SWITCH
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
LA	LEVEL ALARM
LB	POUND
LED	LIGHT EMITTING DIODE
LI	LEVEL INDICATION SWITCH
LIC	LEVEL INDICATION CONTROL
LPS	LIGHTNING PROTECTION SYSTEM
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MFR	MANUFACTURER
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NUM	NUMBER
NTS	NOT TO SCALE
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OHD	OVERHEAD (ROLLUP) DOOR
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE
PC	PRESSURE CONTROL
PH	PHASE
PI	PRESSURE INDICATION SWITCH
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE
QI	QUALITY INDICATION SWITCH
QTY	QUANTITY
RL	RELOCATE
RLD	RELOCATED
RS	RIGID STEEL
RMC	RIGID METAL CONDUIT
RTU	ROOFTOP UNIT
SC	SPEED CONTROL
SCH	SCHEDULE
SEC	SECONDARY
SPD	SURGE PROTECTIVE DEVICE
SQFT	SQUARE FEET
TBD	TO BE DETERMINED
TI	TEMPERATURE INDICATION
TMP	TEMPORARY
TYP	TYPICAL
TSTAT	THERMOSTAT
UG	UNDERGROUND
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UH	UNIT HEATER
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VC	VIBRATION CONTROL
VDC	VOLTS DIRECT CURRENT
VS	VIBRATION SWITCH
W	WATTS
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

SYMBOL LEGEND

POWER

	DUPLEX WALL OUTLET. MOUNT 18" AFF UNLESS NOTED OTHERWISE
+42	DUPLEX WALL OUTLET 42" ABOVE FINISHED FLOOR
RR	CEILING MOUNTED RETRACTABLE ELECTRICAL REEL WITH 25-FOOT CORD AND QUADRUPLEX ELECTRICAL OUTLET
J	ELECTRICAL JUNCTION BOX
	ELECTRICAL DISCONNECT SWITCH
	ELECTRICAL PANELBOARD
	DRY TYPE TRANSFORMER 480V-208/120V
SB	ELECTRICAL SWITCHBOARD
	ELECTRICAL METER ENCLOSURE
T	THERMOSTAT

LIGHTING

	2X4 RECESSED PANEL LIGHT
	2X2 RECESSED PANEL LIGHT
	4 FOOT STRIP LIGHT
	VANITY LIGHT
	2 FOOT TRACK WITH 2 HEADS
$	LIGHT SWITCH
OS	CEILING MOUNT OCCUPANCY/MOTION SENSOR
	WALL MOUNT EXIT SIGN
	WALL MOUNT EXIT SIGN WITH EMERGENCY LIGHTS
	WALL MOUNT EXIT SIGN WITH ARROW
	CEILING MOUNT EXIT SIGN WITH ARROW

DEMOLITION POWER

	DUPLEX WALL OUTLET. MOUNT 18" AFF UNLESS NOTED OTHERWISE
J	ELECTRICAL JUNCTION BOX
	ELECTRICAL DISCONNECT SWITCH
	ELECTRICAL PANELBOARD
	DRY TYPE TRANSFORMER 480V-208/120V
	ELECTRICAL METER ENCLOSURE
T	THERMOSTAT

DEMOLITION LIGHTING

	2X4 RECESSED PANEL LIGHT
	2X2 RECESSED PANEL LIGHT
	4 FOOT STRIP LIGHT
	VANITY LIGHT
	2 FOOT TRACK WITH 2 HEADS
$	LIGHT SWITCH
OS	CEILING MOUNT OCCUPANCY/MOTION SENSOR
	WALL MOUNT EXIT SIGN
	WALL MOUNT EXIT SIGN WITH EMERGENCY LIGHTS
	WALL MOUNT EXIT SIGN WITH ARROW
	CEILING MOUNT EXIT SIGN WITH ARROW

GENERAL NOTES

1. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70, 2015 EDITION OF THE INTERNATIONAL BUILDING CODE, THE 2024 EDITION OF THE UNIFIED FACILITIES CRITERIA PUBLICATION UFC 3-501-01 ELECTRICAL ENGINEERING, THE PROJECT DESIGN CRITERIA, SPECIFICATIONS, AND DRAWINGS.
2. CONTRACTOR SHALL COMPLY WITH ALL CONTRACT REQUIREMENTS, APPLICABLE CODES, LAW AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE NEC, OSHA, AND NATIONAL ELECTRICAL SAFETY CODE.
3. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ARCHITECTURAL, CIVIL, FIRE PROTECTION, FIRE ALARM AND OTHER RELATED DRAWINGS FROM OTHER DISCIPLINES.
4. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW THE EXACT ROUTES OF WIRING AND EXACT LOCATION OF EQUIPMENT. CONTRACTOR SHALL BECOME FAMILIAR WITH JOB CONDITIONS AND ARRANGE ALL WORK TO AVOID CONFLICTS. ALL FINAL LOCATIONS OF NEW CONDUITS, OUTLETS AND EQUIPMENT SHALL BE SUBJECT TO APPROVAL.
5. ALL CUTTING REQUIRED FOR THE INSTALLATION OF ELECTRICAL CONSTRUCTION UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN SUCH A MANNER AS NOT TO CAUSE STRUCTURAL OR ARCHITECTURAL DAMAGE TO THE BUILDING, OR LEAVE UNSIGHTLY SURFACE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND TO PROVIDE A NEW AND FINISHED SURFACE EQUAL TO SURROUNDING UNDISTURBED SURFACES WHEREVER CUTTING, PATCHING, DAMAGE OR REMOVAL OF EQUIPMENT IS PERFORMED UNDER THIS CONTRACT. ALL PATCHING AND RESTORING OF SURFACES SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE SUBJECT TO APPROVAL.
6. ALL CONSTRUCTION UNDER THIS PROJECT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED CONTRACTORS SKILLED IN THE TRADE.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
8. SUBMIT SHOP DRAWINGS, PRODUCT DATA SHEETS AND WIRING DIAGRAMS FOR ALL ELECTRICAL CONSTRUCTION MATERIALS, DEVICES, EQUIPMENT, APPLIANCES AND SYSTEM FOR CONTRACTING OFFICER REVIEW PRIOR TO ORDERING.
9. ALL WORKING SPACE REQUIREMENTS TO BE MAINTAINED AS INDICATED IN DRAWINGS AND NEC.
10. ANY DISCREPANCIES OR COORDINATION ISSUES TO BE BROUGHT TO ENGINEER'S ATTENTION.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE BUILDING AND SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THESE REMOVAL DRAWINGS SHALL SERVE TO AID THE CONTRACTOR IN THEIR EVALUATION OF THE EXTENT OF DEMOLITION, BUT SHALL NOT BE HELD TO BE ALL-INCLUSIVE.
2. FOR FURTHER INFORMATION REGARDING THE EXTENT OF DEMOLITION, SEE THE CONSTRUCTION PLANS, WHICH ILLUSTRATE THE ADJACENT NEW CONSTRUCTION.
3. EXISTING LIGHT FIXTURES IN THE VICINITY OF NEW CATWALK CONSTRUCTION MAY REQUIRE RELOCATION OR MODIFICATION TO AVOID PHYSICAL OR MAINTENANCE ACCESS CONFLICTS. CONTRACTOR SHALL FIELD VERIFY FINAL CATWALK AND FIXTURE CLEARANCES AND COORDINATE REQUIRED ADJUSTMENTS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED FOR THE INSTALLATION OF NEW WORK, WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.
5. ALL CONDUIT RUNS TO REMOVED EQUIPMENT SHALL HAVE ALL WIRING REMOVED UNLESS WIRING IS REQUIRED TO SERVE EXISTING EQUIPMENT TO REMAIN.
6. REMOVE EMPTY CONCEALED (OR OTHERWISE) CONDUIT AND WIRING TO SOURCE; DO NOT ABANDON ANYTHING IN PLACE.
7. IF PORTIONS OF CIRCUITS SERVING EQUIPMENT TO REMAIN MUST BE RELOCATED OR REMOVED DUE TO OTHER DEMOLITION OR INTERFERENCE WITH NEW EQUIPMENT INSTALLATION, THE CIRCUITS SHALL BE MODIFIED IN A MANNER THAT ENSURES PROPER OPERATION OF THE EQUIPMENT AFTER CONSTRUCTION IS COMPLETE. USE SAME GAUGE AND TYPE OF CONDUCTOR AND SAME CONDUIT SIZE AS EXISTING TO MAKE ALL REQUIRED CIRCUIT MODIFICATIONS.

STATE OF TEXAS
DAVID G. KEATTING
128680
LICENSED
PROFESSIONAL ENGINEER
28 MAY 2026

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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Elec.rvt

Plot Date: 5/27/2026 11:58:13 AM

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. KOPER
SUBMITTED BY: CITRINE-OLSSON JV
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
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US ARMY CORPS OF ENGINEERS
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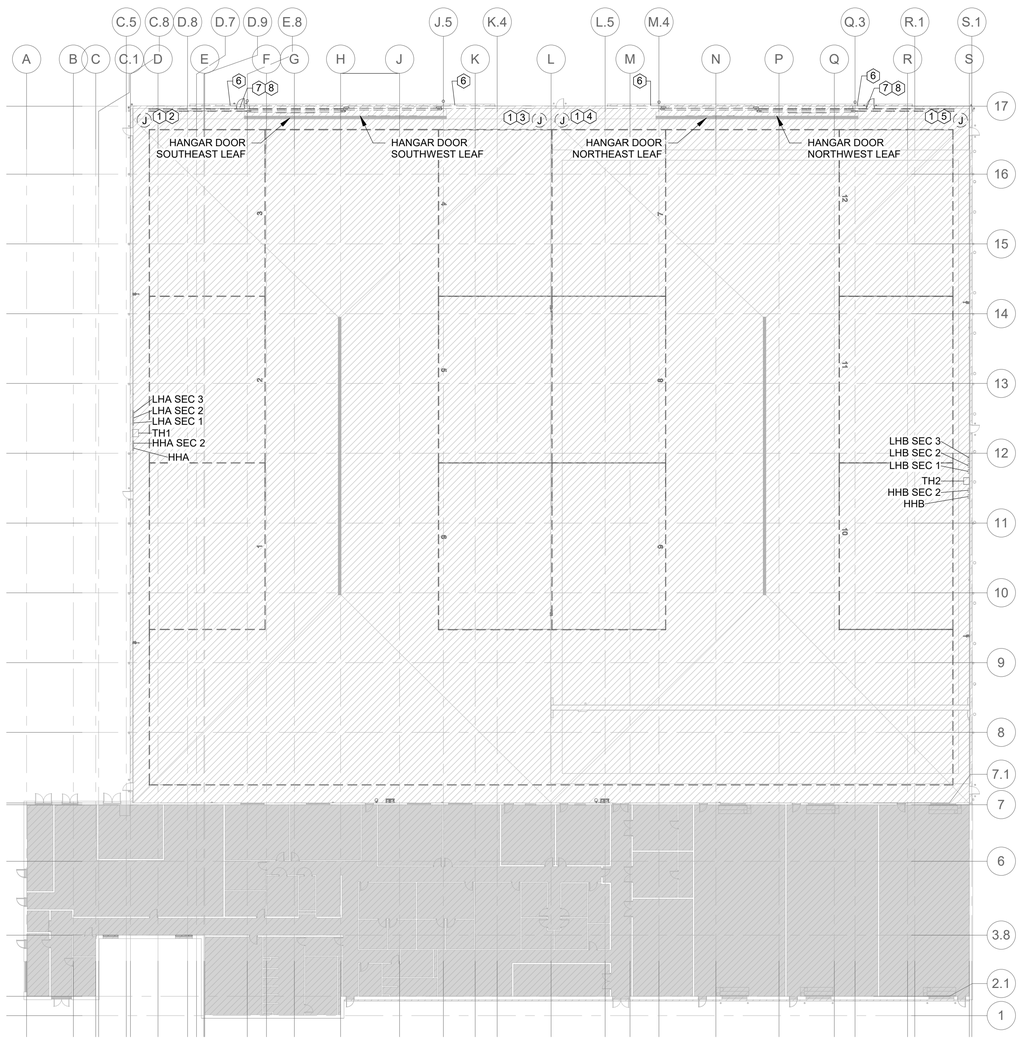
CITRINE-OLSSON
2801 GRANDE AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

LEGEND, ABBREVIATIONS & NOTES

SHEET ID
E-000



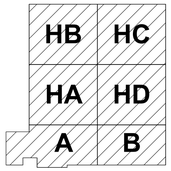
A1 FIRST FLOOR PLAN - POWER - DEMO

1" = 30'-0"

KEY NOTES:

1. EXISTING JUNCTION BOX MOUNTED AT HANGAR DOOR HEIGHT FOR DOOR LEAF POWER WIRING.
2. DEMOLISH POWER BACK TO PANEL HHA AND DEMOLISH CONTROLS FOR HANGAR DOOR SOUTHEAST LEAF.
3. DEMOLISH POWER BACK TO PANEL HHA AND DEMOLISH CONTROLS FOR HANGAR DOOR SOUTHWEST LEAF.
4. DEMOLISH POWER BACK TO PANEL HHB AND DEMOLISH CONTROLS FOR HANGAR DOOR NORTHEAST LEAF.
5. DEMOLISH POWER BACK TO PANEL HHB AND DEMOLISH CONTROLS FOR HANGAR DOOR NORTHWEST LEAF.
6. REMOVE EXISTING EXTERIOR WALL-MOUNTED LIGHT FIXTURE AND ASSOCIATED CONDUIT/CONDUCTORS AS REQUIRED FOR STRUCTURAL DEMOLITION. PROTECT AND MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE UNDER NEW WORK. SALVAGE FIXTURE FOR REUSE. REFERENCE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
7. REMOVE EXISTING INTERIOR-MOUNTED EXIT SIGN ASSOCIATED WITH DOOR TO BE DEMOLISHED. SALVAGE DEVICE FOR REUSE. REMOVE ASSOCIATED CONDUIT/CONDUCTORS BACK TO THE POINT OF STRUCTURAL DEMOLITION. PROTECT AND MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE UNDER NEW WORK. REFERENCE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
8. REMOVE EXISTING DOOR POSITION SWITCH AND MOTION SENSOR ASSOCIATED WITH DOOR TO BE DEMOLISHED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. NO REUSE OF THESE DEVICES, CONDUITS, OR CONDUCTORS IS REQUIRED.

KEY PLAN



PLAN NORTH

N

0 180" 360" 720"

SCALE: 1" = 360"

STATE OF TEXAS
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DRAWN BY: A. COLISTA
CHECKED BY: M. KACEY
SUBMITTED BY:
SIZE: ANSI D

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FORT HOOD, TX
B80176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - DEMO- OVERALL

SHEET ID

ED101

Branch Panel: HHA (2 SECTION)

Location: HANGAR AREA
Supply From: SWITCHBOARD SWBD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65K
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: - -

Notes:

CKT	Load Name	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Load Name	CKT
1	**HANGAR DOOR, SOUTHEAST LEAF (D),**	20 A	3	2018	2018					3	20 A	**HANGAR DOOR, SOUTHWEST LEAF (D),**	2
3	--	--	--			2018	2018			--	--	--	4
5	--	--	--					2018	2018	--	--	--	6
7	BAF-2 (E),	15 A	3	700	700					3	15 A	BAF-1 (E),	8
9	--	--	--			700	700			--	--	--	10
11	--	--	--					700	700	--	--	--	12
13	BAF-3 (E),	15 A	3	700	--					1	--	PREPARED SPACE,	14
15	--	--	--			700	--			1	--	PREPARED SPACE,	16
17	--	--	--					700	--	1	--	PREPARED SPACE,	18
1	XFMR-TH1 (E),	350 A	3	64000									__
3	--	--	--			64000							__
5	--	--	--					63000					__
			Total Load:	70136 VA		70136 VA		69136 VA					
			Total Amps:	254 A		254 A		250 A					

Load Classification	Connected Load		Estimated Demand	Panel Totals	
Existing Load	209408 VA		209408 VA		
_____	_____		_____	**Total Conn. Load:**	209408 VA
				Total Est. Demand:	209408 VA
				Total Conn. Current:	252 A
				Total Est. Demand Current:	252 A

Key: (D) EXISTING EQUIPMENT TO BE DEMOLISHED, (E) EXISTING EQUIPMENT TO REMAIN

Branch Panel: HHB (2 SECTION)

Location: HANGAR AREA
Supply From: SWITCHBOARD SWBD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65K
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: - -

Notes:

CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT
1	PREPARED SPACE,	--	1	--	--					1	--	PREPARED SPACE,	2
3	PREPARED SPACE,	--	1			--	--			1	--	PREPARED SPACE,	4
5	PREPARED SPACE,	--	1					--	--	1	--	PREPARED SPACE,	6
7	PREPARED SPACE,	--	1	--	--					1	--	PREPARED SPACE,	8
9	PREPARED SPACE,	--	1			--	--			1	--	PREPARED SPACE,	10
11	PREPARED SPACE,	--	1					--	--	1	--	PREPARED SPACE,	12
13	BAF-4 (E),	15 A	3	700	700					3	15 A	BAF-6 (E),	14
15	--	--	--			700	700			--	--	--	16
17	--	--	--					700	700	--	--	--	18
19	BAF-5 (E),	15 A	3	700	2100					3	15 A	EF-H8 (E),	20
21	--	--	--			700	2100			--	--	--	22
23	--	--	--					700	2100	--	--	--	24
25	EF-H7 (E),	15 A	3	2100	2100					3	15 A	EF-H9 (E),	26
27	--	--	--			2100	2100			--	--	--	28
29	--	--	--					2100	2100	--	--	--	30
1	XFMR-TH2 (E),	225 A	3	40000	--					1	--	Space,	2
3	--	--	--			39000	--			1	--	Space,	4
5	--	--	--					39000	--	1	--	Space,	6
7	**HANGAR DOOR, NORTHWEST LEAF (D),**	25 A	3	2018	2018					3	20 A	**HANGAR DOOR, NORTHEAST LEAF (D),**	8
9	--	--	--			2018	2018			--	--	--	10
11	--	--	--					2018	2018	--	--	--	12
13	CRANE (E),	20 A	3	2000	2100					3	15 A	EF-H1 (E),	14
15	--	--	--			2000	2100			--	--	--	16
17	--	--	--					2000	2100	--	--	--	18
19	EF-H5 (E),	15 A	3	2100	2100					3	15 A	EF-H6 (E),	20
21	--	--	--			2100	2100			--	--	--	22
23	--	--	--					2100	2100	--	--	--	24
25	EF-H4 (E),	15 A	3	2100	2100					3	15 A	EF-H2 (E),	26
27	--	--	--			2100	2100			--	--	--	28
29	--	--	--					2100	2100	--	--	--	30
31	EF-H3 (E),	15 A	3	2100									__
33	--	--	--			2100							__
35	--	--	--					2100					__
			Total Load:	67036 VA		66036 VA		66036 VA					
			Total Amps:	242 A		238 A		238 A					

Load Classification	Connected Load		Estimated Demand	Panel Totals	
Existing Load	199108 VA		199108 VA		
_____	_____		_____	**Total Conn. Load:**	199108 VA
				Total Est. Demand:	199108 VA
				Total Conn. Current:	239 A
				Total Est. Demand Current:	239 A

Key: (D) EXISTING EQUIPMENT TO BE DEMOLISHED, (E) EXISTING EQUIPMENT TO REMAIN

STATE OF TEXAS
DAVID G. KEATTING
128680
LICENSED
PROFESSIONAL ENGINEER
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MARK	DESCRIPTION	DATE

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Plot Date: 5/27/2026 11:58:26 AM

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9128G26BA005
CONTRACT NO.:

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. KAGER
SUBMITTED BY:
SIZE: ANSI D

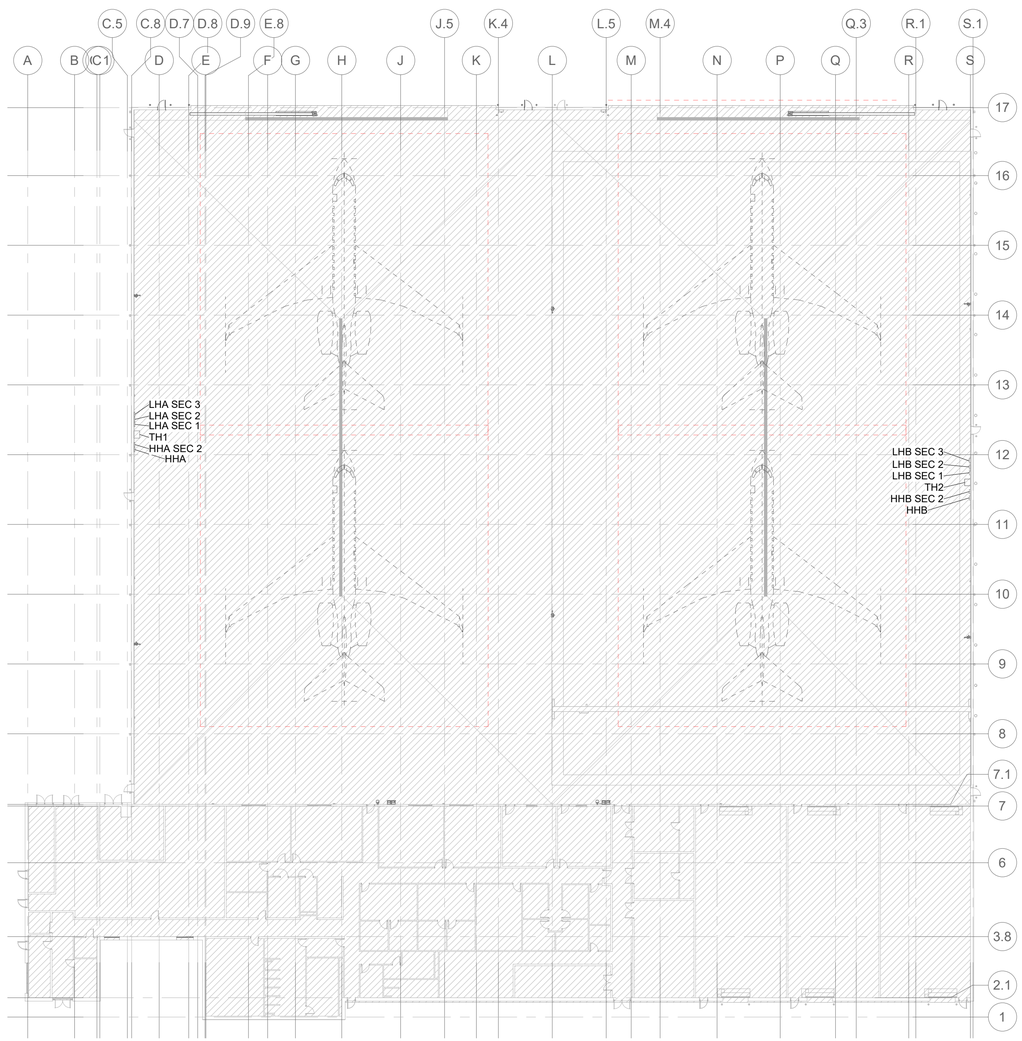
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE-OLSSON
2861 GRANDE AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

DEMO ELECTRICAL SCHEDULES

SHEET ID
ED501



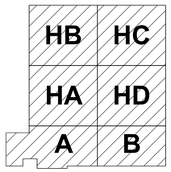
A1 FIRST FLOOR PLAN - POWER - OVERALL

1" = 30'-0"

GENERAL NOTES:

1. EXISTING GROUNDING AND LIGHTNING PROTECTION CONDUCTORS MAY BE DISTURBED BY STRUCTURAL DEMOLITION AND FOUNDATION WORK. CONTRACTOR SHALL FIELD-VERIFY EXISTING GROUNDING ELECTRODE SYSTEMS, BONDING CONDUCTORS, AND ANY LIGHTNING PROTECTION DOWN-LEADS IN AREAS OF SLAB AND FOOTING REMOVAL. MAINTAIN OR RESTORE CONTINUITY OF ALL GROUNDING AND LIGHTNING PROTECTION CONNECTIONS TO NEW STRUCTURAL STEEL AND FOUNDATIONS. COORDINATE WITH STRUCTURAL DRAWINGS. ADDITIONAL DETAILS WILL BE PROVIDED IN SUBSEQUENT SUBMISSIONS.

KEY PLAN



PLAN NORTH

N

0 180" 360" 720"

SCALE: 1" = 360"

STATE OF TEXAS
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128680
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PROFESSIONAL ENGINEER

28 MAY 2026

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MARK	DESCRIPTION	DATE

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. KOEB
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

CITRINE-OLSSON
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FLOOR PLAN - POWER - OVERALL

SHEET ID

E-101

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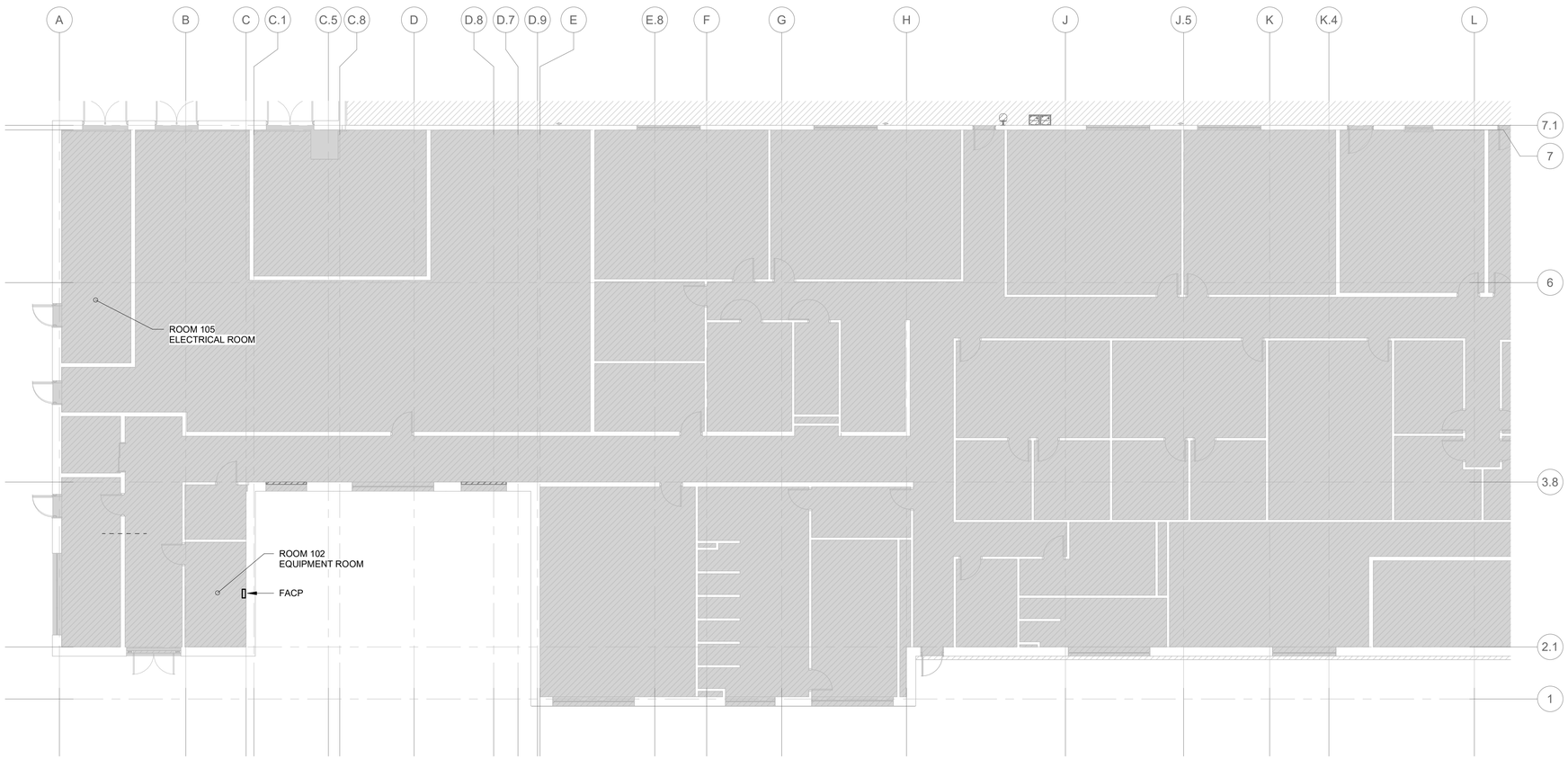


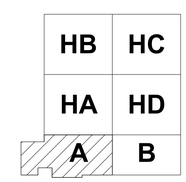
A1 FIRST FLOOR PLAN - POWER - AREA A

1" = 10'-0"

GENERAL NOTES:

1. THIS FLOORPLAN IS INCLUDED FOR REFERENCE ONLY.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
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128680
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SUBMITTED BY:
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CONTRACT NO.:

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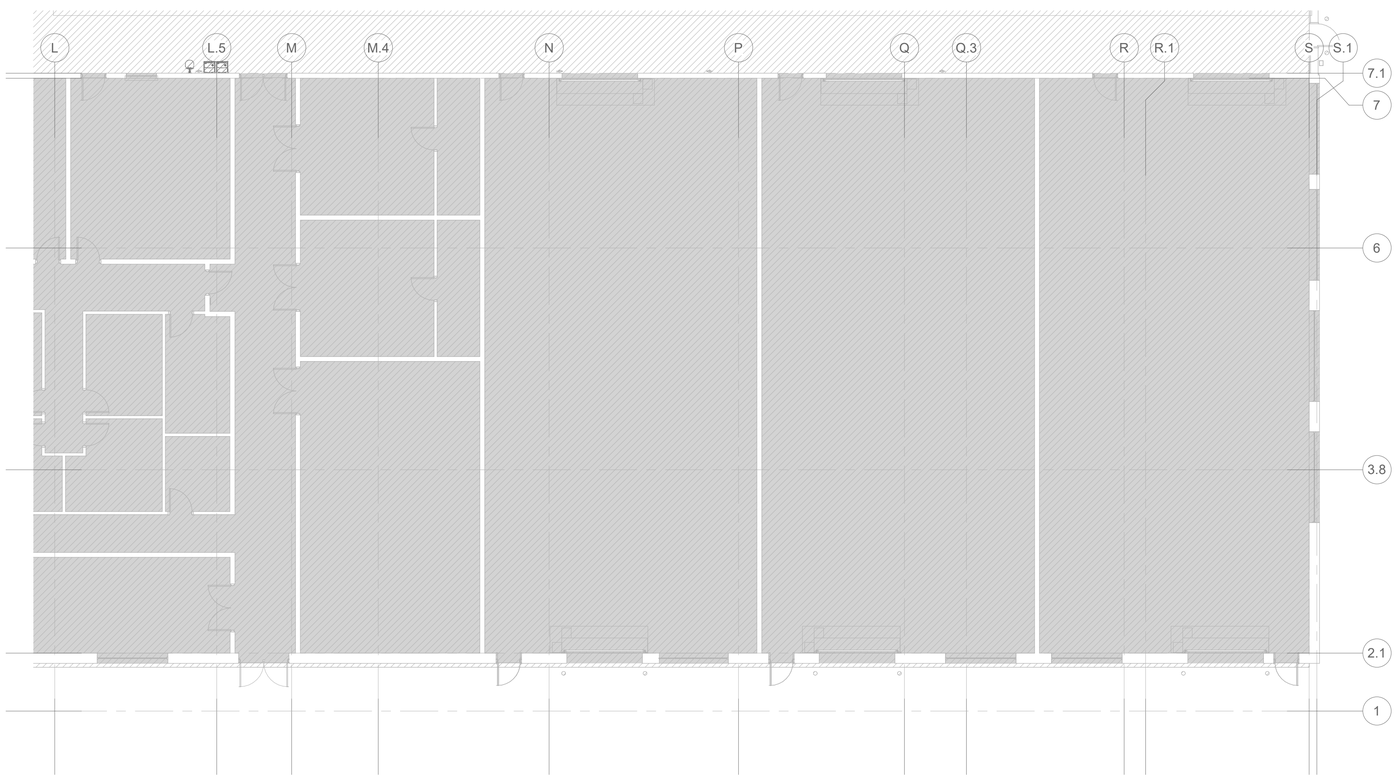
FLOOR PLAN - POWER - AREA A

SHEET ID

E-102



A1 FIRST FLOOR PLAN - POWER - AREA B

1" = 10'-0"

GENERAL NOTES:

1. THIS FLOORPLAN IS INCLUDED FOR REFERENCE ONLY.

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
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128680
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CONTRACT NO.:

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. AKER
SUBMITTED BY:
SIZE: ANSI D

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FLOOR PLAN - POWER - AREA B

SHEET ID

E-103

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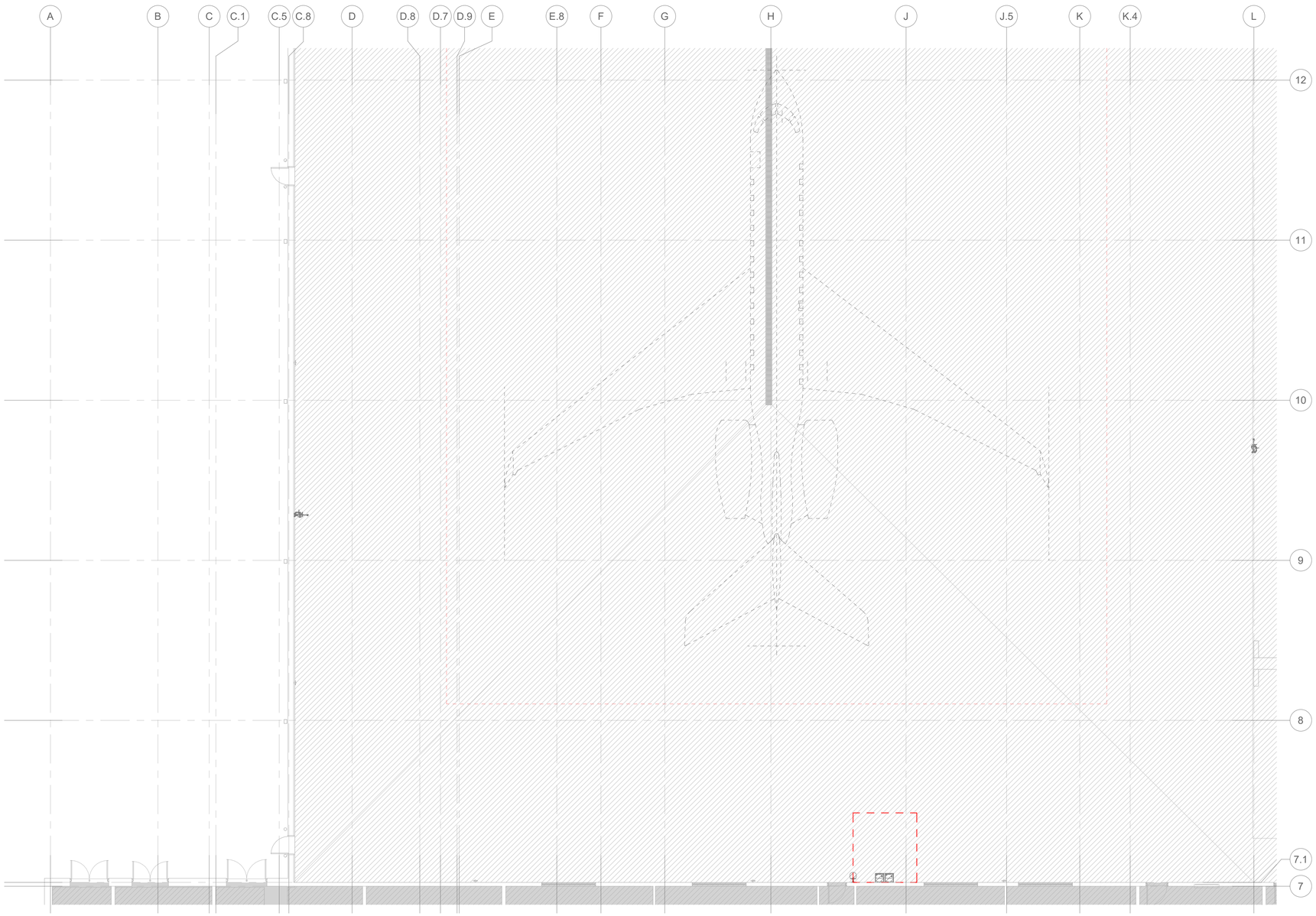
Plot Date: 5/27/2026 11:58:18 AM



A1 FIRST FLOOR PLAN - POWER - AREA HA

1" = 10'-0"

GENERAL NOTES:

1. THIS FLOORPLAN IS INCLUDED FOR REFERENCE ONLY.

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

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SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. ACKER
SUBMITTED BY:
SIZE: ANSI D

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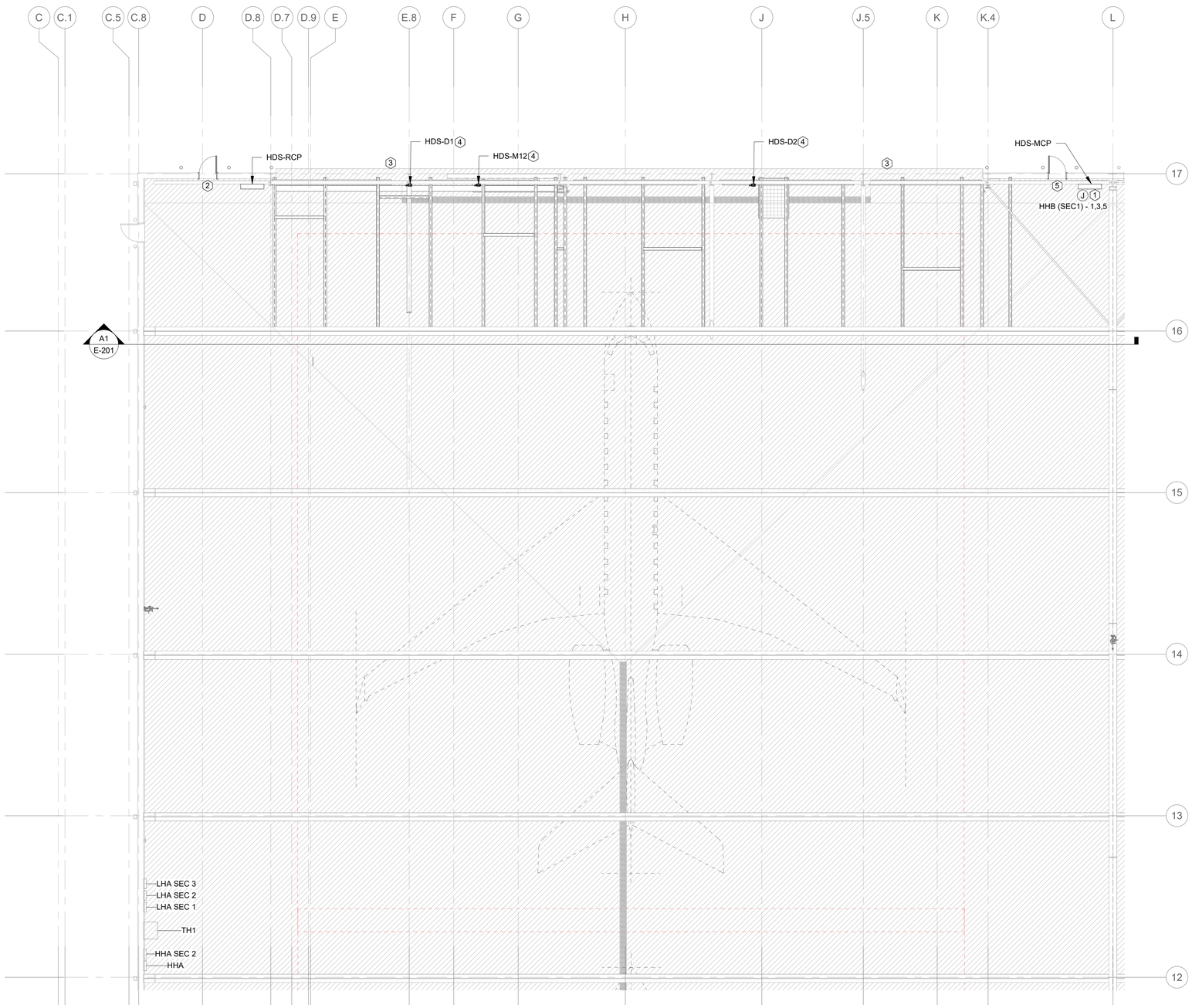
FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - POWER - AREA HA

SHEET ID

E-104



A1 FIRST FLOOR PLAN - POWER - AREA HB

1" = 10'-0"

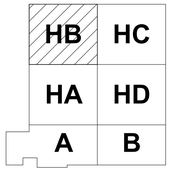
GENERAL NOTES:

1. HANGAR DOOR POWER SHOWN REPRESENTS SINGLE-POINT CONNECTION TO MANUFACTURER-FURNISHED DOOR MASTER CONTROL PANEL (MCP) PER MANUFACTURER'S REQUIREMENTS. REFERENCE SHEET E-602 FOR HANGAR DOOR ELECTRICAL LOAD DIAGRAM AND HANGAR DOOR CONDUIT & CONDUCTOR REQUIREMENTS.

KEY NOTES:

1. PROVIDE (1) 480V, 3-PHASE POWER TO HANGAR DOOR MANUFACTURER-FURNISHED MCP FROM PANEL HHA AS SCHEDULED. PROVIDE 100A, 3-POLE LOCKABLE DISCONNECTING MEANS ADJACENT TO MCP. MCP SHALL CONTAIN INTERNAL MOTOR STARTERS AND OVERLOAD PROTECTION FOR ALL ASSOCIATED HANGAR DOOR MOTORS.
2. RECONNECT SALVAGED ILLUMINATED EXIT SIGN AT NEW PERSONNEL DOOR. REUSE EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT/CONDUCTORS AS REQUIRED UTILIZING SAME SIZE WIRE AND CONDUIT. REFERENCE DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
3. REINSTALL SALVAGED EXTERIOR WALL-MOUNTED LIGHT FIXTURE REMOVED UNDER DEMOLITION. REUSE EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT/CONDUCTORS AS REQUIRED UTILIZING SAME SIZE WIRE AND CONDUIT. FINAL FIXTURE LOCATION TO BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. REFERENCE DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE LOCAL MOTOR DISCONNECTS HANGAR DOOR MOTOR AS INDICATED ON SHEET E-602.
5. PROVIDE NEW ILLUMINATED EXIT SIGN AT NEW PERSONNEL DOOR. CONNECT TO NEAREST EXISTING EXIT LIGHTING CIRCUIT. EXTEND CONDUIT/CONDUCTORS AS REQUIRED UTILIZING SAME SIZE WIRE AND CONDUIT. COORDINATE FINAL DEVICE PLACEMENT WITH ARCHITECTURAL DOOR CONFIGURATION. PROVIDE INDUSTRIAL-GRADE LED EXIT SIGN, WALL MOUNTED, THERMOPLASTIC WHITE HOUSING, RED LETTERS, MVOLT.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
DAVID G. KEATTING
128680
LICENSED PROFESSIONAL ENGINEER

28 MAY 2026

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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. ANDERS
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - POWER - AREA HB

SHEET ID

E-105

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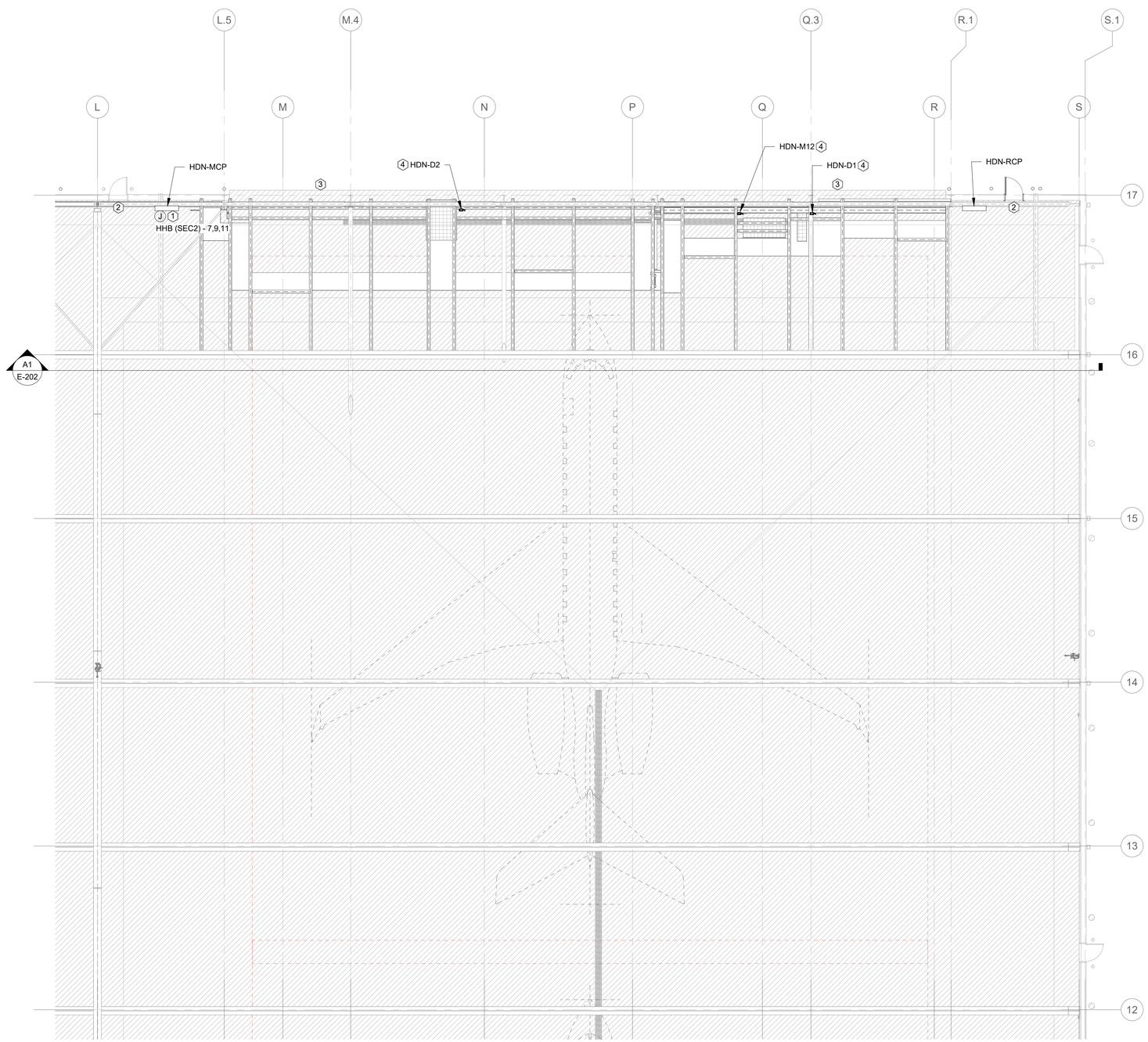


A1 FIRST FLOOR PLAN - POWER - AREA HC

1" = 10'-0"

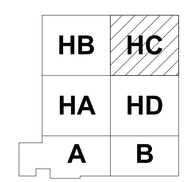
GENERAL NOTES:

1. HANGAR DOOR POWER SHOWN REPRESENTS SINGLE-POINT CONNECTION TO MANUFACTURER-FURNISHED DOOR MASTER CONTROL PANEL (MCP) PER MANUFACTURER'S REQUIREMENTS. REFERENCE SHEET E-602 FOR HANGAR DOOR ELECTRICAL LOAD DIAGRAM AND HANGAR DOOR CONDUIT & CONDUCTOR REQUIREMENTS.

KEY NOTES:

1. PROVIDE (1) 480V, 3-PHASE POWER TO HANGAR DOOR MANUFACTURER-FURNISHED MCP FROM PANEL HHB AS SCHEDULED. PROVIDE 100A, 3-POLE LOCKABLE DISCONNECTING MEANS ADJACENT TO MCP. MCP SHALL CONTAIN INTERNAL MOTOR STARTERS AND OVERLOAD PROTECTION FOR ALL ASSOCIATED HANGAR DOOR MOTORS.
2. RECONNECT SALVAGED ILLUMINATED EXIT SIGN AT NEW PERSONNEL DOOR. REUSE EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT/CONDUCTORS AS REQUIRED UTILIZING SAME SIZE WIRE AND CONDUIT. REFERENCE DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
3. REINSTALL SALVAGED EXTERIOR WALL-MOUNTED LIGHT FIXTURE REMOVED UNDER DEMOLITION. REUSE EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT/CONDUCTORS AS REQUIRED UTILIZING SAME SIZE WIRE AND CONDUIT. FINAL FIXTURE LOCATION TO BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. REFERENCE DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE LOCAL MOTOR DISCONNECTS HANGAR DOOR MOTOR AS INDICATED ON SHEET E-602.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
DAVID G. KEATTING
128680
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DRAWN BY: A. COLISTA
CHECKED BY: M. KOEPKE
SUBMITTED BY:
SIZE: ANSI D

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST, FORT WORTH, TX 76102

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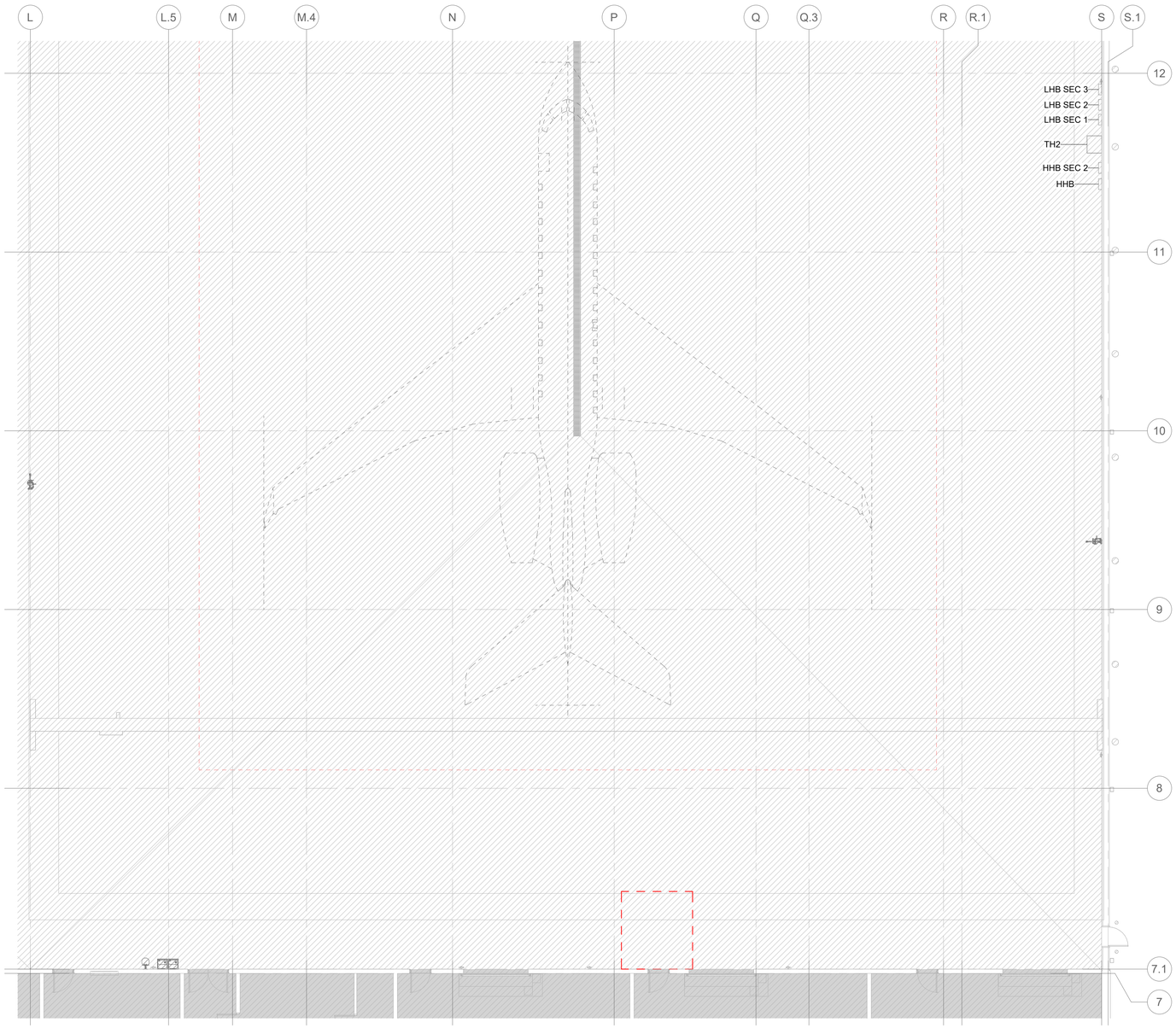
FLOOR PLAN - POWER - AREA HC

SHEET ID

E-106



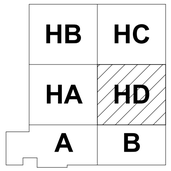
A1 FIRST FLOOR PLAN - POWER - AREA HD

1" = 10'-0"

GENERAL NOTES:

1. THIS FLOORPLAN IS INCLUDED FOR REFERENCE ONLY.

KEY PLAN



PLAN NORTH

N

0 60" 120" 240"

SCALE: 1" = 120"

STATE OF TEXAS
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128680
LICENSED
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28 MAY 2026

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US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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SOLICITATION NO.: W912BG26BA005
CONTRACT NO.:

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. ACKER
SUBMITTED BY:
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

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FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

FLOOR PLAN - POWER - AREA HD

SHEET ID

E-107

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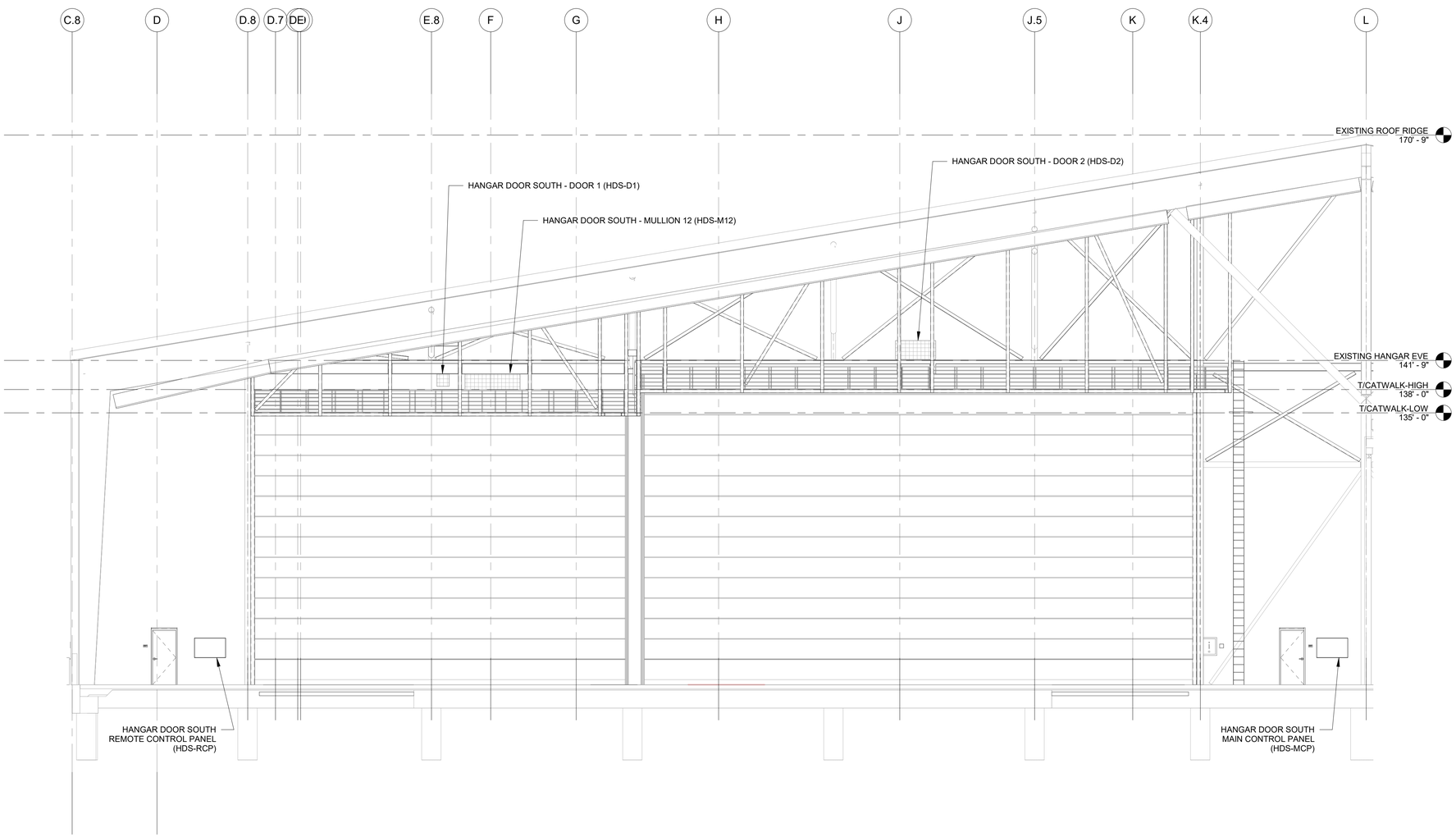

A1 POWER - ELEVATION - AREA HB

1/8" = 1'-0"

GENERAL NOTES:

1. THIS SHEET INDICATES LOCATIONS FOR HANGAR DOOR SYSTEM POWER CONNECTIONS. SOME LOCATIONS ARE ONLY ACCESSIBLE BY CATWALK. REFERENCE SHEET E-602 FOR THE HANGAR DOOR ELECTRICAL LOAD DIAGRAM.

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 48" 96" 192"

SCALE: 1/8" = 12"

STATE OF TEXAS
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MARK	DESCRIPTION	DATE

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CONTRACT NO.:

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DRAWN BY: A. COLISTA
CHECKED BY: M. AYER
SUBMITTED BY:
SIZE: ANSI D

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819 TAYLOR ST., FORT WORTH, TX 76102

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FORT HOOD, TX
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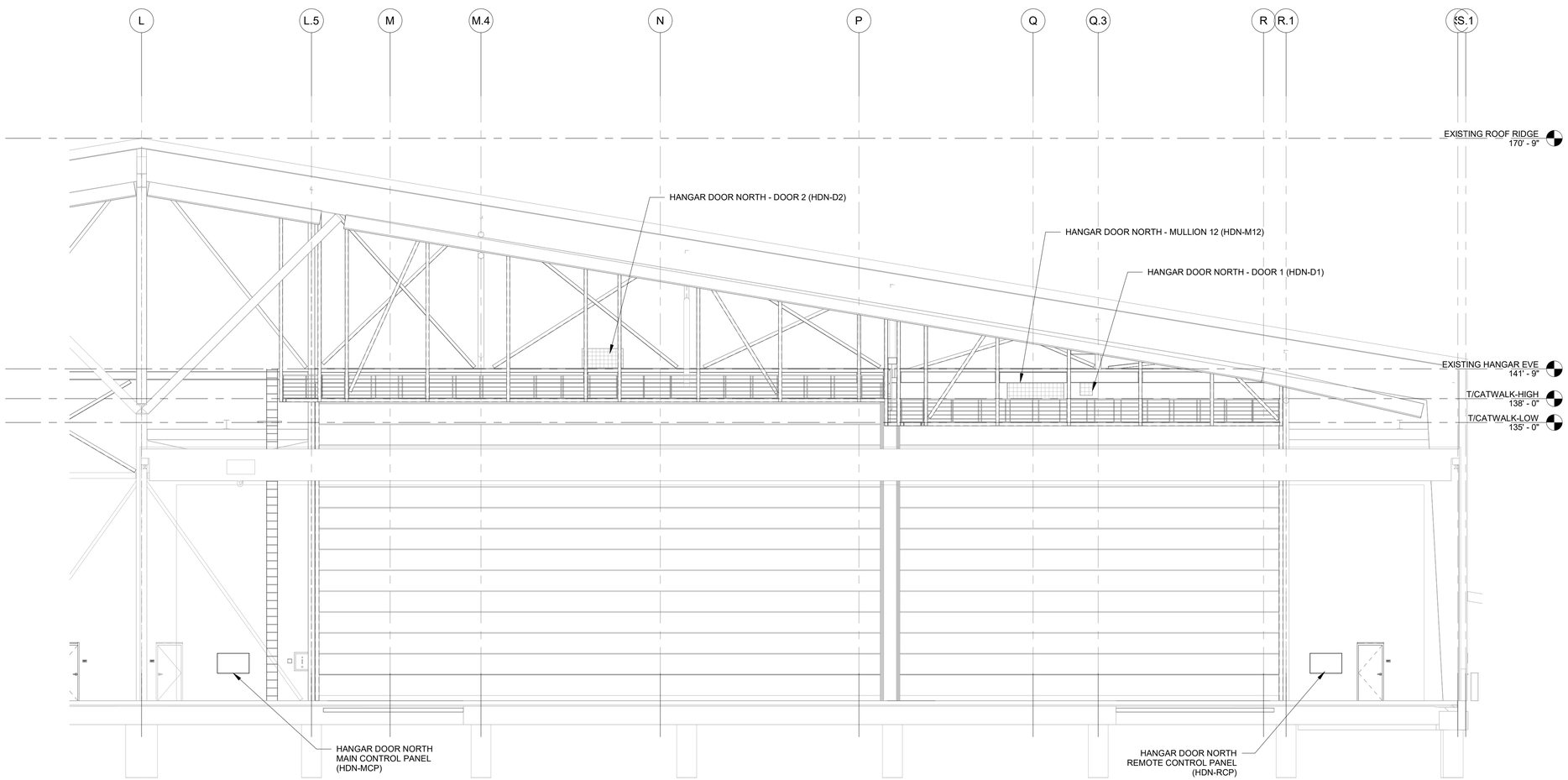
ELEVATION - POWER - AREA HB

SHEET ID

E-201



A1 POWER - ELEVATION - AREA HC

1/8" = 1'-0"

GENERAL NOTES:

1. THIS SHEET INDICATES LOCATIONS FOR HANGAR DOOR SYSTEM POWER CONNECTIONS. SOME LOCATIONS ARE ONLY ACCESSIBLE BY CATWALK. REFERENCE SHEET E-602 FOR THE HANGAR DOOR ELECTRICAL LOAD DIAGRAM.

KEY PLAN

HB	HC
HA	HD
A	B

PLAN NORTH

N

0 48" 96" 192"

SCALE: 1/8" = 12"

STATE OF TEXAS
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128680
LICENSED
PROFESSIONAL ENGINEER

28 MAY 2026

Citrine | olsson
Mentor-Protégé Joint Venture of Citrine and Olsson

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 28, 2026
SOLICITATION NO.: W9126G26BA005
CONTRACT NO.:

DESIGNED BY: D. KEATTING
DRAWN BY: A. COLISTA
CHECKED BY: M. KEATTING
SUBMITTED BY:
SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
819 TAYLOR ST., FORT WORTH, TX 76102

CITRINE-OLSSON
2801 GRANDE AVE
GRAND JUNCTION CO, 81501

FORT HOOD, TX
B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

ELEVATION - POWER - AREA HC

SHEET ID

E-202

File Path: Autodesk Docs://USACE Ft Worth - B90176 Hangar Door Expansion - Ft Hood/B90176 Hangar Door Expansion - R24 - Elec.rvt

Plot Date: 5/27/2026 11:58:28 AM

Branch Panel: HHA (2 SECTION)

Location: HANGAR AREA
Supply From: SWITCHBOARD SWBD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65K
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: - -

Notes:

CKT	Load Name	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Load Name	CKT
1	**HANGAR DOOR SOUTH, HDS-MCP (N),**	100 A	3	11000	0					3	20 A	SPARE,	2
3	--	--	--			11000	0			--	--	--	4
5	--	--	--					11000	0	--	--	--	6
7	BAF-2 (E),	15 A	3	700	700					3	15 A	BAF-1 (E),	8
9	--	--	--			700	700			--	--	--	10
11	--	--	--					700	700	--	--	--	12
13	BAF-3 (E),	15 A	3	700	--					1	--	PREPARED SPACE,	14
15	--	--	--			700	--			1	--	PREPARED SPACE,	16
17	--	--	--					700	--	1	--	PREPARED SPACE,	18
1	XFMR-TH1 (E),	350 A	3	64000									__
3	--	--	--			64000							__
5	--	--	--					63000					__
			Total Load:	77100 VA		77100 VA		76100 VA					
			Total Amps:	279 A		279 A		275 A					

Load Classification	Connected Load		Estimated Demand	Panel Totals	
Existing Load	197300 VA		197300 VA		
New Load	33000 VA		33000 VA	**Total Conn. Load:**	230300 VA
				Total Est. Demand:	230300 VA
				Total Conn. Current:	277 A
				Total Est. Demand Current:	277 A

Key: (E) EXISTING EQUIPMENT TO REMAIN, (N) NEW EQUIPMENT. INSTALL NEW CIRCUIT BREAKER AS SCHEDULED.

Branch Panel: HHB (2 SECTION)

Location: HANGAR AREA
Supply From: SWITCHBOARD SWBD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65K
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: - -

Notes:

CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT
1	PREPARED SPACE,	--	1	--	--					1	--	PREPARED SPACE,	2
3	PREPARED SPACE,	--	1			--	--			1	--	PREPARED SPACE,	4
5	PREPARED SPACE,	--	1					--	--	1	--	PREPARED SPACE,	6
7	PREPARED SPACE,	--	1	--	--					1	--	PREPARED SPACE,	8
9	PREPARED SPACE,	--	1			--	--			1	--	PREPARED SPACE,	10
11	PREPARED SPACE,	--	1					--	--	1	--	PREPARED SPACE,	12
13	BAF-4 (E),	15 A	3	700	700					3	15 A	BAF-6 (E),	14
15	--	--	--			700	700			--	--	--	16
17	--	--	--					700	700	--	--	--	18
19	BAF-5 (E),	15 A	3	700	2100					3	15 A	EF-H8 (E),	20
21	--	--	--			700	2100			--	--	--	22
23	--	--	--					700	2100	--	--	--	24
25	EF-H7 (E),	15 A	3	2100	2100					3	15 A	EF-H9 (E),	26
27	--	--	--			2100	2100			--	--	--	28
29	--	--	--					2100	2100	--	--	--	30
1	XFMR-TH2 (E),	225 A	3	40000	--					1	--	Space,	2
3	--	--	--			39000	--			1	--	Space,	4
5	--	--	--					39000	--	1	--	Space,	6
7	**HANGAR DOOR NORTH, HDN-MCP (N),**	100 A	3	11000	0					3	20 A	Spare,	8
9	--	--	--			11000	0			--	--	--	10
11	--	--	--					11000	0	--	--	--	12
13	CRANE (E),	20 A	3	2000	2100					3	15 A	EF-H1 (E),	14
15	--	--	--			2000	2100			--	--	--	16
17	--	--	--					2000	2100	--	--	--	18
19	EF-H5 (E),	15 A	3	2100	2100					3	15 A	EF-H6 (E),	20
21	--	--	--			2100	2100			--	--	--	22
23	--	--	--					2100	2100	--	--	--	24
25	EF-H4 (E),	15 A	3	2100	2100					3	15 A	EF-H2 (E),	26
27	--	--	--			2100	2100			--	--	--	28
29	--	--	--					2100	2100	--	--	--	30
31	EF-H3 (E),	15 A	3	2100									__
33	--	--	--			2100							__
35	--	--	--					2100					__
			Total Load:	74000 VA		73000 VA		73000 VA					
			Total Amps:	267 A		264 A		264 A					

Load Classification	Connected Load		Estimated Demand	Panel Totals	
Existing Load	187000 VA		187000 VA		
New Load	33000 VA		33000 VA	**Total Conn. Load:**	220000 VA
				Total Est. Demand:	220000 VA
				Total Conn. Current:	265 A
				Total Est. Demand Current:	265 A

Key: (E) EXISTING EQUIPMENT TO REMAIN, (N) NEW EQUIPMENT. INSTALL NEW CIRCUIT BREAKER AS SCHEDULED.

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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

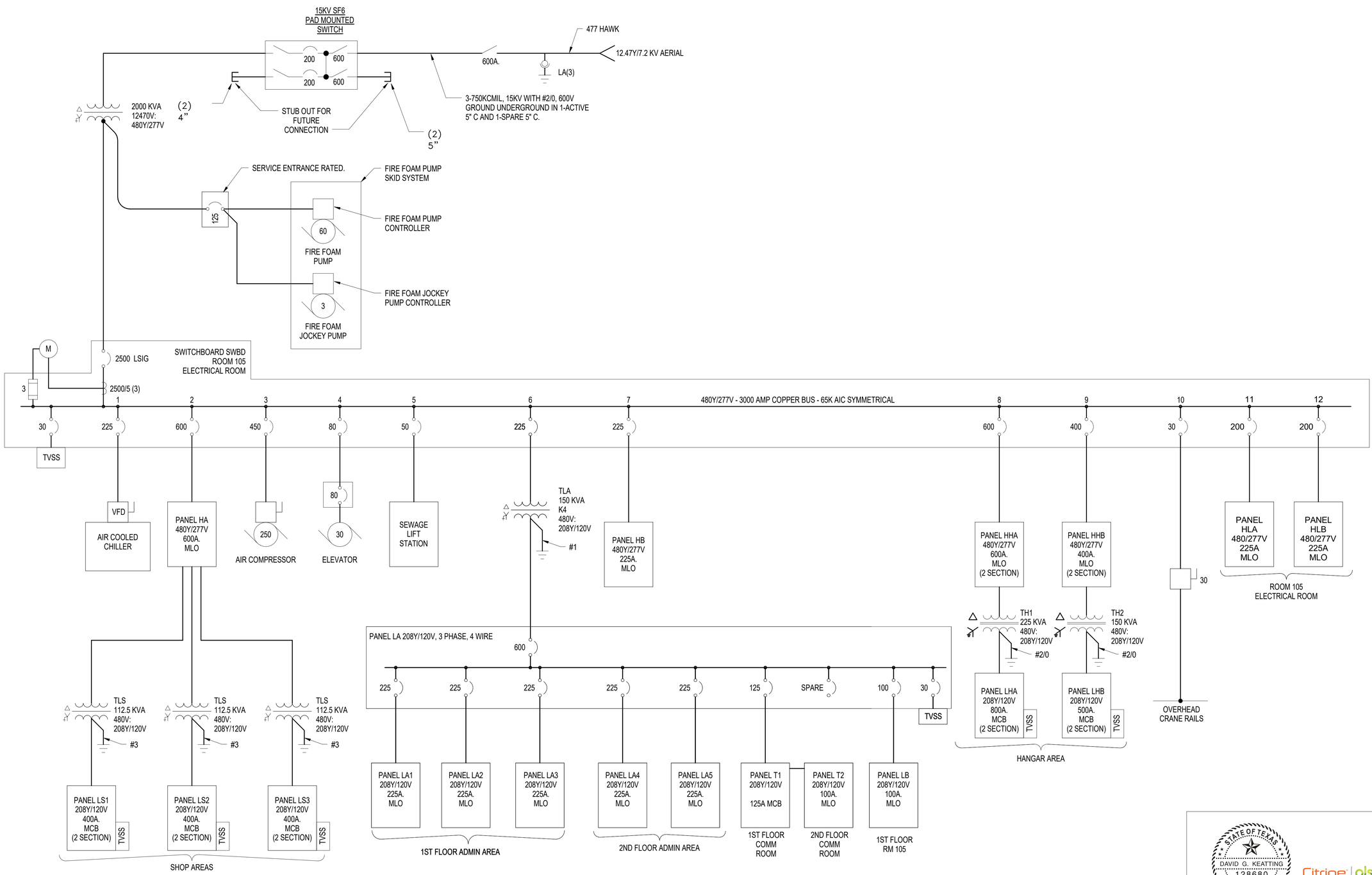
ELECTRICAL SCHEDULES

SHEET ID

E-501

GENERAL NOTES:

1. EXISTING ONE LINE DIAGRAM IS SHOWN FOR REFERENCE ONLY. ALL EQUIPMENT SHOWN IS EXISTING UNLESS NOTED OTHERWISE.



A1 EXISTING ONE-LINE DIAGRAM
NTS

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B90176 HANGAR DOOR EXPANSION - HADES MISSION SUPPORT

EXISTING ONE-LINE DIAGRAM

SHEET ID
E-601

GENERAL NOTES:

1. THIS DIAGRAM IS INTENDED TO SHOW GENERAL HANGAR DOOR POWER AND CONTROL INTERCONNECTIONS. IT IS SCHEMATIC AND DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO SHOW EXACT EQUIPMENT LOCATIONS, DIMENSIONS, OR ROUTING. CONTRACTOR SHALL FIELD VERIFY FINAL EQUIPMENT LOCATIONS AND COORDINATE EXACT CONDUIT ROUTING, CONNECTION POINTS, AND INSTALLATION REQUIREMENTS PRIOR TO CONSTRUCTION. EXACT COMPONENT LOCATIONS MAY VARY BETWEEN HANGAR DOOR NORTH AND HANGAR DOOR SOUTH.

2. PROVIDE ADDITIONAL JUNCTION BOXES AS REQUIRED TO ACHIEVE A NEAT AND WORKMANLIKE INSTALLATION. JUNCTION BOXES SHALL BE SIZED BY THE ELECTRICAL CONTRACTOR.

KEY NOTES:

1. DEVICE FURNISHED & INSTALLED BY HANGAR DOOR MANUFACTURER. ELECTRICAL CONNECTION BY ELECTRICAL CONTRACTOR.

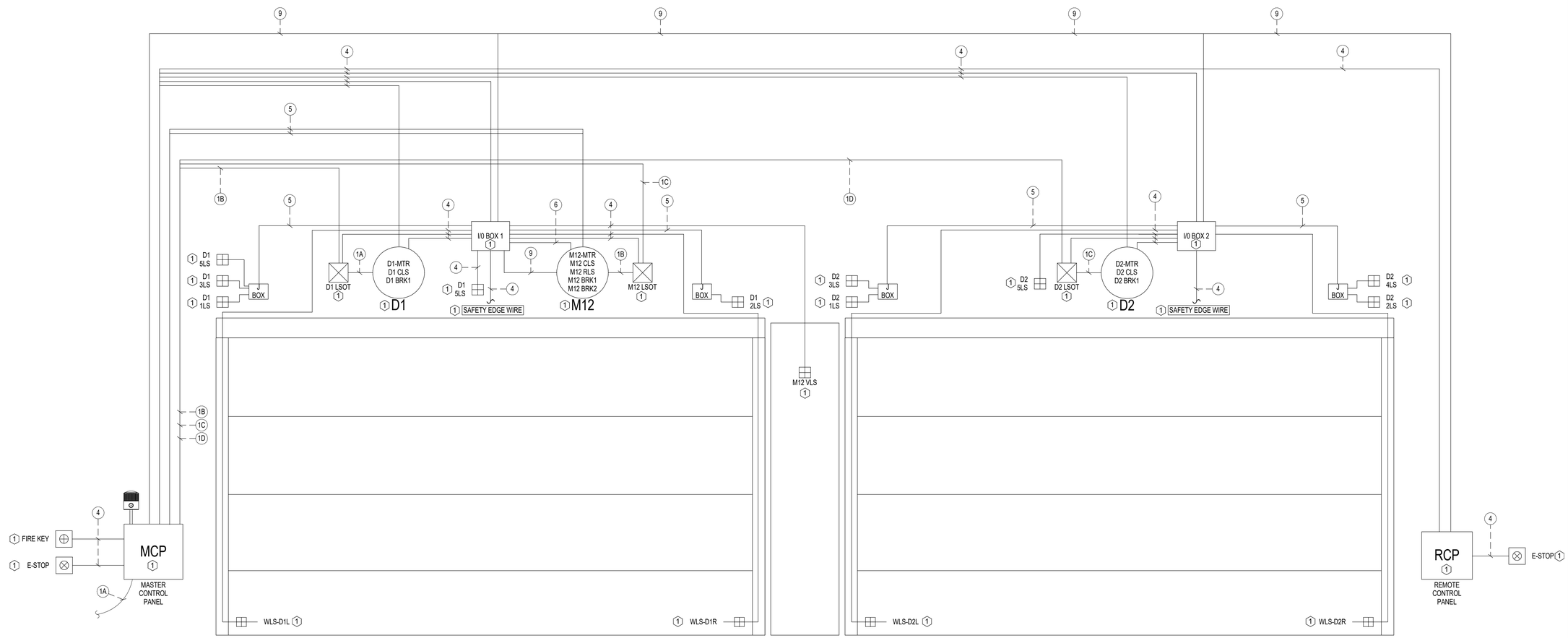
CONDUIT & CONDUCTOR SCHEDULE

FEEDER #	DESCRIPTION	CONDUIT, CONDUCTORS	REMARKS
1A	SINGLE-POINT POWER CONNECTION TO HANGAR DOOR MCP	1.5"C, (3)#4 AWG, (1)#8 AWG GND	CONNECT FROM MCP TO ASSOCIATED POWER PANEL. REFERENCE SHEETS E-105 & E-106 FOR ADDITIONAL INFORMATION
1B	DOOR 1 POWER FEED FROM MCP	0.75"C, (3)#12 AWG, (1)#12 AWG GND	CONNECT FROM MCP TO D1. PROVIDE LOCAL DISCONNECTING MEANS PER NEC 430.102(B). PROVIDE NON-FUSED DISCONNECT, 480 VAC, 3-POLE, 30A
1C	MULLION 12 POWER FEED FROM MCP	0.75"C, (3)#12 AWG, (1)#12 AWG GND	CONNECT FROM MCP TO M12. PROVIDE LOCAL DISCONNECTING MEANS PER NEC 430.102(B). PROVIDE NON-FUSED DISCONNECT, 480 VAC, 3-POLE, 30A
1D	DOOR 2 POWER FEED FROM MCP	0.75"C, (3)#8 AWG, (1)#10 AWG GND	CONNECT FROM MCP TO D2. PROVIDE LOCAL DISCONNECTING MEANS PER NEC 430.102(B). PROVIDE NON-FUSED DISCONNECT, 480 VAC, 3-POLE, 60A
4	CONTROLS WIRE - 2 CONDUCTOR	0.5"C, (2)#16 AWG	
5	CONTROLS WIRE - 4 CONDUCTOR	0.5"C, (4)#16 AWG	
6	CONTROLS WIRE - 14 CONDUCTOR	0.5"C, (14)#16 AWG	
9	NETWORK CABLE CONNECTION FROM MCP TO I/O BOX 1	0.75"C, CAT-6 CABLE	MAY INSTALL UP TO 3 CABLES IN ONE 3/4" CONDUIT. VERIFY FILL.

NOTES:
- CONDUIT AND CONDUCTORS FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- PROVIDE DEDICATED CONTROL CIRCUITS FOR EACH DEVICE CONNECTION.

HANGAR DOOR COMPONENT ABBREVIATIONS

ABBREVIATION	DESCRIPTION
D# MTR	MOTOR FOR DOOR
CLS	HAND CRANK LIMIT SWITCH
LSOT	OVERTRAVEL UP LIMIT SWITCH
1LS	BROKEN ROPE/BELT LIMIT SWITCH
2LS	BROKEN ROPE/BELT LIMIT SWITCH
3LS	SLACK ROPE/BELT (DOOR CLOSED) LIMIT SWITCH
4LS	SLACK ROPE/BELT (DOOR CLOSED) LIMIT SWITCH
5LS	DOOR OPEN LIMIT SWITCH
MCP	MAIN CONTROL PANEL
RCP	REMOTE CONTROL PANEL
WLS	WINDLOCK SENSOR
M# MTR	MOTOR FOR MULLION
VLS	MULLION VERTICAL LIMIT SWITCH
RLS	RUPTURED LIMIT SWITCH



1 HANGAR DOOR ELECTRICAL LOAD DIAGRAM
NTS

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HANGAR DOOR ELECTRICAL LOAD DIAGRAM

SHEET ID
E-602