

GENERAL NOTES:

1. SHEET SIZE FOR PROPER SCALE IS 30X42. CONTRACTOR SHALL NOT SCALE DRAWINGS BUT SHALL REQUEST THE DESIRED DIMENSIONS FROM THE ARCHITECT.
2. SEE SHEET G-002 FOR GENERAL NOTES.
3. APPLY 1-1/2" THICK FIREPROOFING AT ALL EXPOSED STEEL WITHIN INTERSTITIAL SPACE AND AT EXPOSED STEEL STRUCTURE ABOVE 3RD FLOOR CEILING, TYP.

SHEET SPECIFIC NOTES:

1. REFER TO SHEET QH-101 FOR EQUIPMENT SCHEDULE.



① EQUIPMENT FLOOR PLAN - 3RD LEVEL
1/8" = 1'-0"

N
PLAN NORTH TRUE NORTH

CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW COMPLETED Revisions: 2/23/2024 Date		CONSULTANTS:  TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736  ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880  FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT  FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Drawing Title SPS MEDICAL EQUIPMENT PLAN Approved: Project Director Omaha VA Medical Center		Project Title Design/Construct Sterile Processing Service- Omaha VA Medical Center Location 4101 Woolworth Ave #4199 Omaha, Ne 68105 Date 11/23/2020 Checked JL Drawn JGC		Project Number 16.2330.A08 Building Number 25 Drawing Number QH-100 Dwg. 61 of 143		Office of Construction and Facilities Management  Department of Veterans Affairs	
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IBC 2018 TABLE 1705.3 REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	IBC REFERENCE	REQUIRED ON PROJECT
1. INSPECTION REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318 CH 20, 25.2, 26.3, 26.6.1-26.6.3	1908.4	YES
2. REINFORCING BAR WELDING:	-	X	AWS D1.4, ACI 318: 26.6.4	-	NO
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.					
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X			
C. INSPECT ALL OTHER WELDS	X	-			
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-	YES
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ^a	X		ACI 318: 17.8.2.4 ACI 318: 17.8.2	-	NO
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.					
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.		X			YES
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 ^a CH: 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3	YES
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10	YES
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	YES
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318 ^a : 26.5.3-26.5.5	1908.9	YES
9. INSPECT OF PRESTRESSED CONCRETE FOR:	X	-	ACI 318: 26.10	-	NO
A. APPLICATION OF PRESTRESSING FORCES.					
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 26.9	-	NO
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE, AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-	YES
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.2(b)	-	YES

a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

MATERIAL TESTS

SPECIAL INSPECTION AND TESTING:

1. SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2018 IBC AND ALL REFERENCED MATERIALS AND TABLES.
2. INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT THE OWNER'S EXPENSE. AGENCY INSPECTION PERSONNEL SHALL MEET THE INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE SPECIFICATIONS.
3. ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. IN ADDITION TO THE IBC INSPECTION TABLES, THE INSPECTOR SHALL VERIFY THAT ALL STEEL MAINTAIN ERECTION TOLERANCE OF STRUCTURAL STEEL AND ARCHITECTUALLY EXPOSED STRUCTURAL STEEL WITHIN AISCS CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
5. IN ADDITION TO THE CONCRETE BCI INSPECTION TABLE, THE INSPECTOR SHALL VERIFY THAT ALL CONCRETE MAINTAIN TOLERANCES SPECIFIED IN ACI 117-90 STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.
6. TESTING - ANY FAILED FIELD TEST SHALL BE REPORTED TO THE CONTRACTING OFFICER IMMEDIATELY.

STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR THE INSTALLATION OF STEEL DECK

TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT

TASK	QC	QA
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	PERFORM
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT

TASK	QC	QA
A. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM	PERFORM
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N/A	PERFORM
C. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING

TASK	QC	QA
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	OBSERVE	OBSERVE
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE	OBSERVE
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	OBSERVE
D. CHECK WELDING EQUIPMENT	OBSERVE	OBSERVE

TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING

TASK	QC	QA
A. USE OF QUALIFIED WELDERS	OBSERVE	OBSERVE
B. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	OBSERVE
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	OBSERVE
D. WPS FOLLOWED	OBSERVE	OBSERVE

TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING

TASK	QC	QA
A. VERIFY SIZE & LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, & PERIMETER WELDS	PERFORM	PERFORM
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	PERFORM
C. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM	PERFORM

TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING

TASK	QC	QA
A. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	OBSERVE	OBSERVE
C. PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE

TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING

INSPECTION TASKS DURING MECHANICAL FASTENING	QC	QA
A. FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	OBSERVE
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	OBSERVE

TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING

INSPECTION TASKS AFTER MECHANICAL FASTENING	QC	QA
A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	PERFORM	PERFORM
B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	PERFORM	PERFORM
C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	PERFORM	PERFORM
D. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
E. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM	PERFORM

NOTE:

- QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE INSTALLER
- QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE CERTIFIED TESTING AGENCY

STEEL CONSTRUCTION

AISC 360-16 TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	YES
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	YES
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO EXCLUDED FROM SHEAR PLANE)	O	YES
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	YES
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	YES
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	YES
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	YES

AISC 360-16 TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	0	YES
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	YES
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	YES
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE ENDS	0	YES

AISC 360-16 TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	YES

- O-OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. P-PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
- OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKSMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
- FOR STRUCTURES IN RISK CATEGORY II/III (ASCE/SEI 7 TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON ALL COMPLETE JOINT PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 MM) THICK OR GREATER.
- ALL NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL BE DOCUMENTED.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL WELD INSPECTION REQUIREMENTS.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL BOLT INSPECTION REQUIREMENTS.
- EXPOSED OUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING.
- INSPECTION SHALL OCCUR DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING ANCHOR DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.
- FABRICATED STEEL AND ERECTED STEEL FRAMES, AS APPROPRIATE, SHALL BE INSPECTED FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER JOINT DETAIL APPLICATION.

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	YES
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	YES
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	YES
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	YES
WELDER IDENTIFICATION SYSTEM ⁱⁱ	O	YES
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
• JOINT PREPARATION		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		YES
• CLEANLINESS (CONDITION OF STEEL SURFACES)	O	
• TACKING (TACK WELD QUALITY AND LOCATION)		
FIT-UP OF CJP GROOVE WELDS OF HSS T, Y- AND K-JOINTS WITHOUT BACKING		
• JOINT PREPARATIONS		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	YES
• CLEANLINESS (CONDITION OF STEEL SURFACES)		
• TACKING (TACK WELD QUALITY AND LOCATION)		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	YES
FIT-UP OF FILLET WELDS		
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)		
• CLEANLINESS (CONDITION OF STEEL SURFACES)	O	YES
• TACKING (TACK WELD QUALITY AND LOCATION)		
CHECK WELDING EQUIPMENT	O	-

10) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
USE OF QUALIFIED WELDERS	0	YES
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	0	YES
NO WELDING OVER CRACKED TACK WELDS	0	YES
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	0	YES
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PRE-HEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	0	YES
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	0	YES
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	YES

AISC 360-16 TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDS CLEANED	O	YES
SIZE, LENGTH AND LOCATION OF WELDS	P	YES
WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
• CRACK PROHIBITION • WELD-BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	YES
ARC STRIKES	P	YES
k-AREA ⁽¹⁾	P	YES
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ⁽¹⁾	P	YES
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	YES
REPAIR ACTIVITIES	O	YES
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	O	YES
NO PROHIBITED HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	YES

(*) WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" (75 mm) OF THE WELD.

(b) AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

GENERAL NOTES

- SNOW DRIFT PLAN NOTES**
- SNOW DRIFT LOADS SHOWN ARE IN ADDITION TO UNIFORM SNOW LOADS INDICATED ON SHEET S-001.
 - ONLY NEW SNOW DRIFT LOADS ON EXISTING ROOFS ARE SHOWN. CONSULT ORIGINAL DRAWINGS FOR EXISTING SNOW DRIFT LOADS.
 - SNOW DRIFT LOAD SHOWN ALONG GRIDLINE 'A' IS TO ACCOUNT FOR FUTURE DORMITORY BUILDING LOCATED TO THE NORTH OF THIS BUILDING (BUILDING 25).

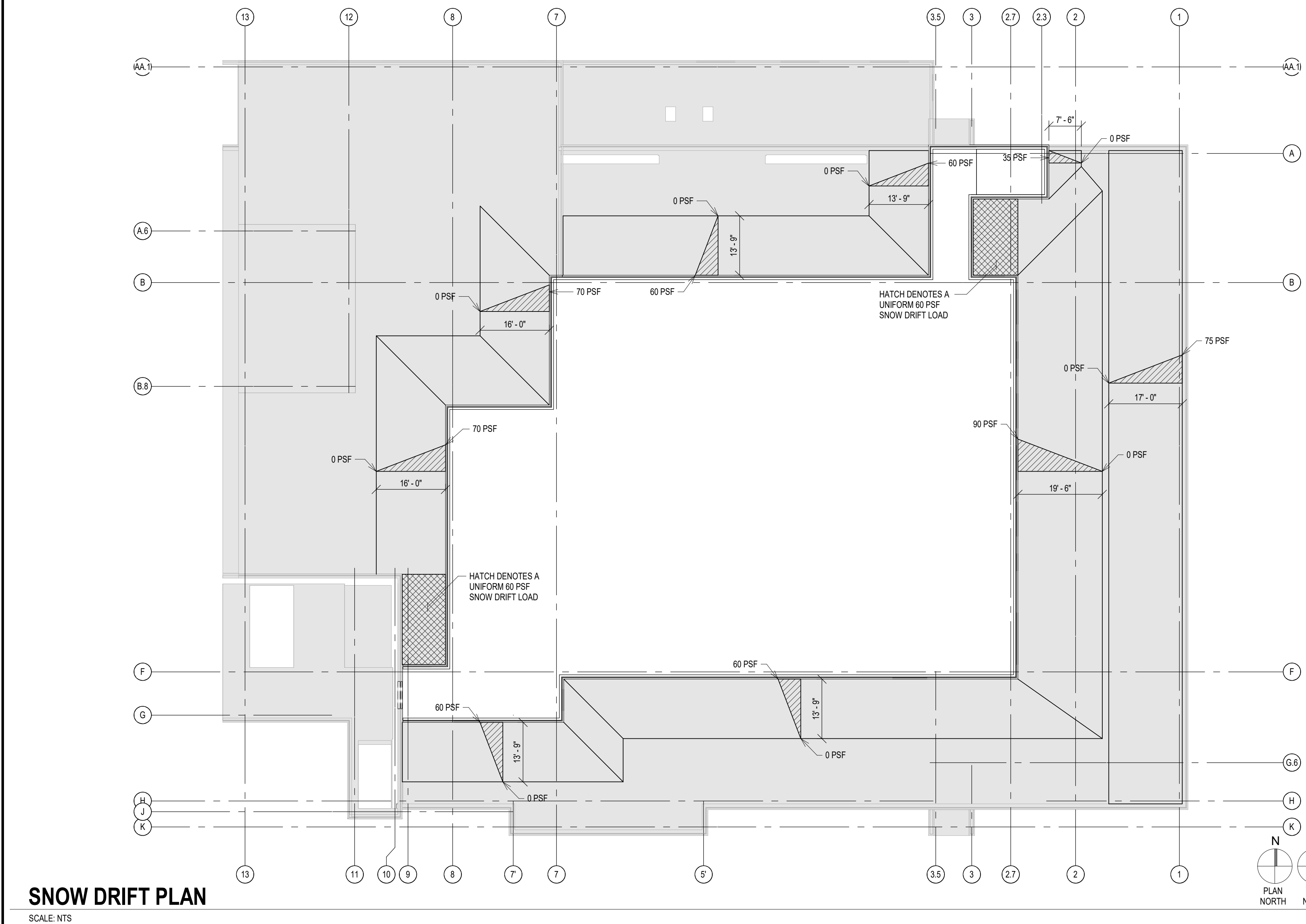
SCHEDULES

WIND UPLIFT SCHEDULE					
		PRESSURE (PSF)			
		EFFECTIVE WIND AREA (SQUARE FEET)			
HATCH	WIDTH (a)	0 - 20	20 - 50	50 - 100	>100
REMAINDER		36	36	36	36
22'-0"		63	58	53	49
22'-0"		83	77	70	65
22'-0"		113	101	88	77

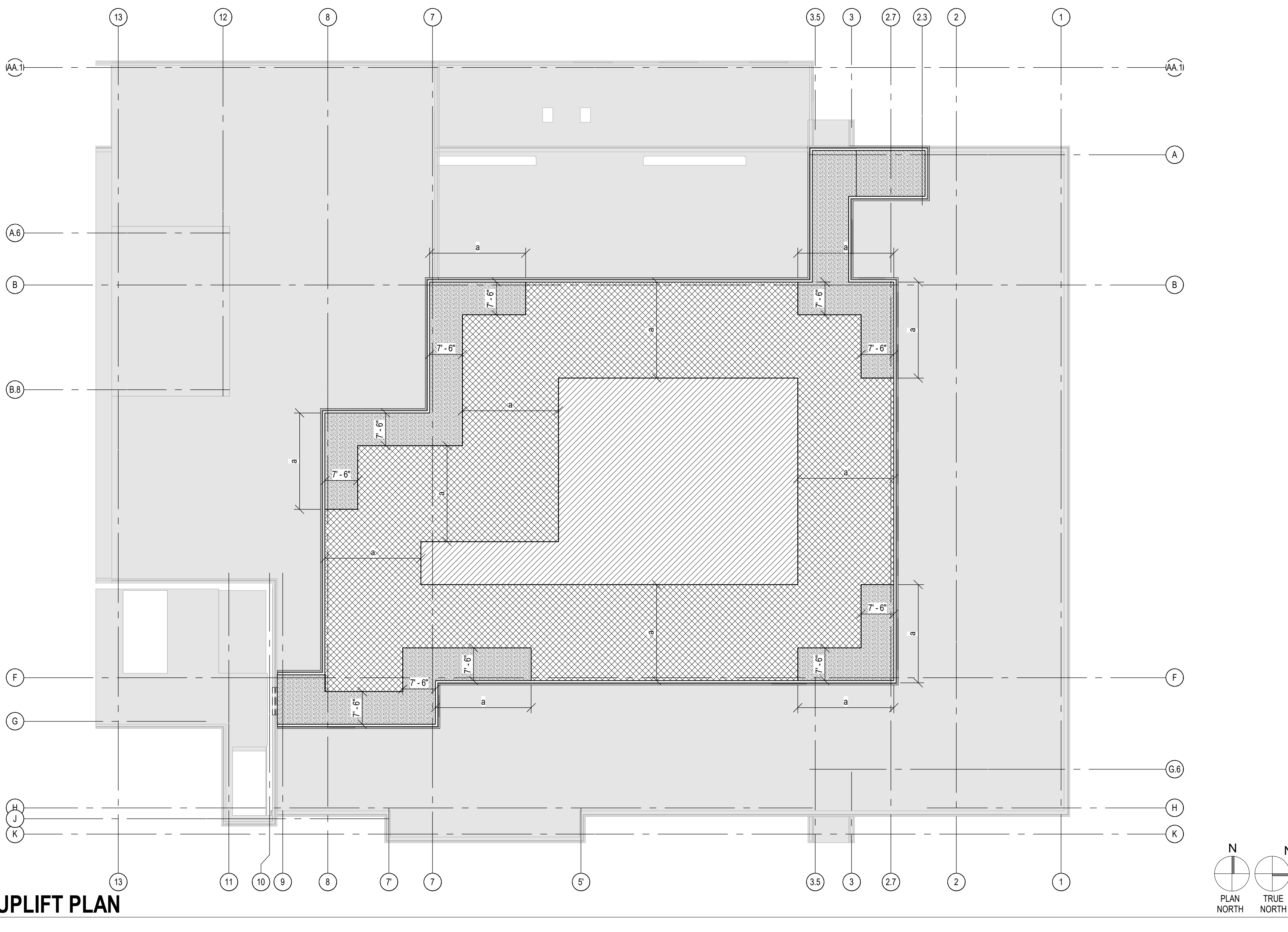
ADDITIONAL REMARKS:
WIND PRESSURES SHOWN ARE ULTIMATE PRESSURE VALUES FROM ASCE 7-16. TO OBTAIN NOMINAL (SERVICE LEVEL) WIND PRESSURES, MULTIPLY TABLE VALUE BY 0.6.

WIND COMPONENTS & CLADDING SCHEDULE (WALLS)					
		PRESSURE (PSF)			
		EFFECTIVE WIND AREA (SQUARE FEET)			
ZONE		0 - 20	20 - 50	50 - 100	>100
ZONE 4	PRESSURE	36	34	32	30
	SUCTION	39	37	35	33
ZONE 5	PRESSURE	36	34	32	30
	SUCTION	48	44	40	37

ADDITIONAL REMARKS:
WIND PRESSURES SHOWN ARE ULTIMATE WIND PRESSURE VALUES FROM ASCE 7-16. TO OBTAIN NOMINAL (SERVICE LEVEL) WIND PRESSURES, MULTIPLY TABLE VALUE BY 0.6.
ZONE 5 SHALL INCLUDE THE WALL AREA WITHIN 9 FEET FROM EACH BUILDING CORNER. ZONE 4 APPLIES TO THE REMAINING WALL AREA.



SNOW DRIFT PLAN
SCALE: NTS



WIND UPLIFT PLAN
SCALE: NTS

COMPLIANCE REVIEW INCLUDED

2/23/2024

Date

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Drawing Title

SNOW DRIFT AND WIND UPLIFT PLANS

Approved: Project Director

Omaha VA Medical Center

Project Title

Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location **4101 Woolworth Ave #4199 Omaha, NE 68105**

Date **11/23/2020**

Checked **LGF**

Drawn **MDR**

Project Number **16.2330.A08**

Building Number **25**

Drawing Number **S-003**

Dwg. 65 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

CONSTRUCTION DOCUMENTS

5/17/2023 9:35:30 AM

one eighth inch = one foot

one eighth inch = one foot

one eighth inch = one foot

one eighth inch = one foot

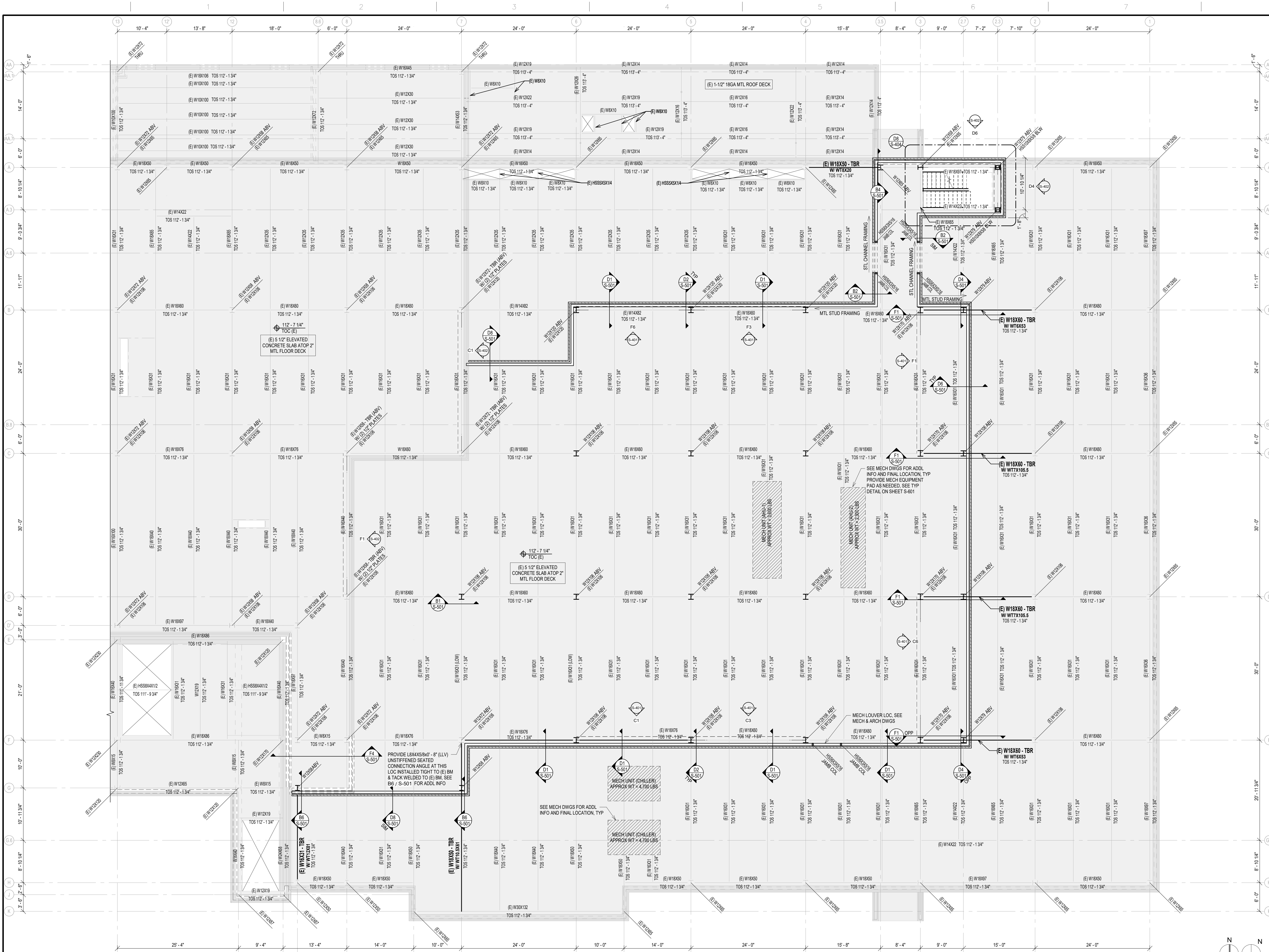
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LEVEL (02) SPS ADDITION INTERSTITIAL FRAMING PLAN
SCALE: 1/8" = 1'-0"
REFERENCED FROM: S-102

COMPLIANCY REVIEW INCLUDED	2/23/2024
Revisions:	Date

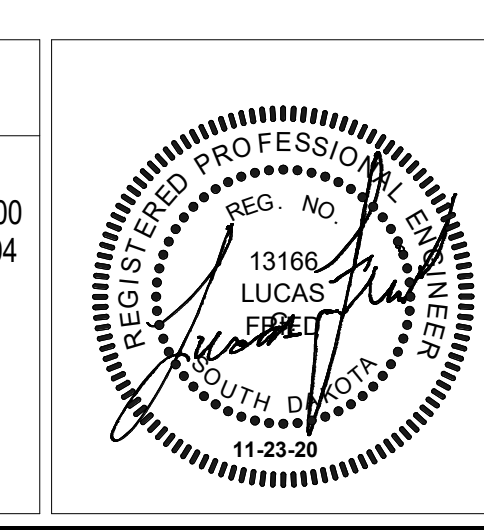
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Drawing Title	LEVEL (02) INTERSTITIAL FRAMING PLAN LEVEL
Approved: Project Director	Omaha VA Medical Center

Project Title	Design/Construct Sterile Processing Service- Omaha VA Medical Center
Location	4101 Woolworth Ave #4199 Omaha, NE 68105
Date	11/23/2020
Checked	LGF
Drawn	MDR

Project Number	16.2330.A08
Building Number	25
Drawing Number	S-102
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Office of Construction and Facilities Management

Department of Veterans Affairs

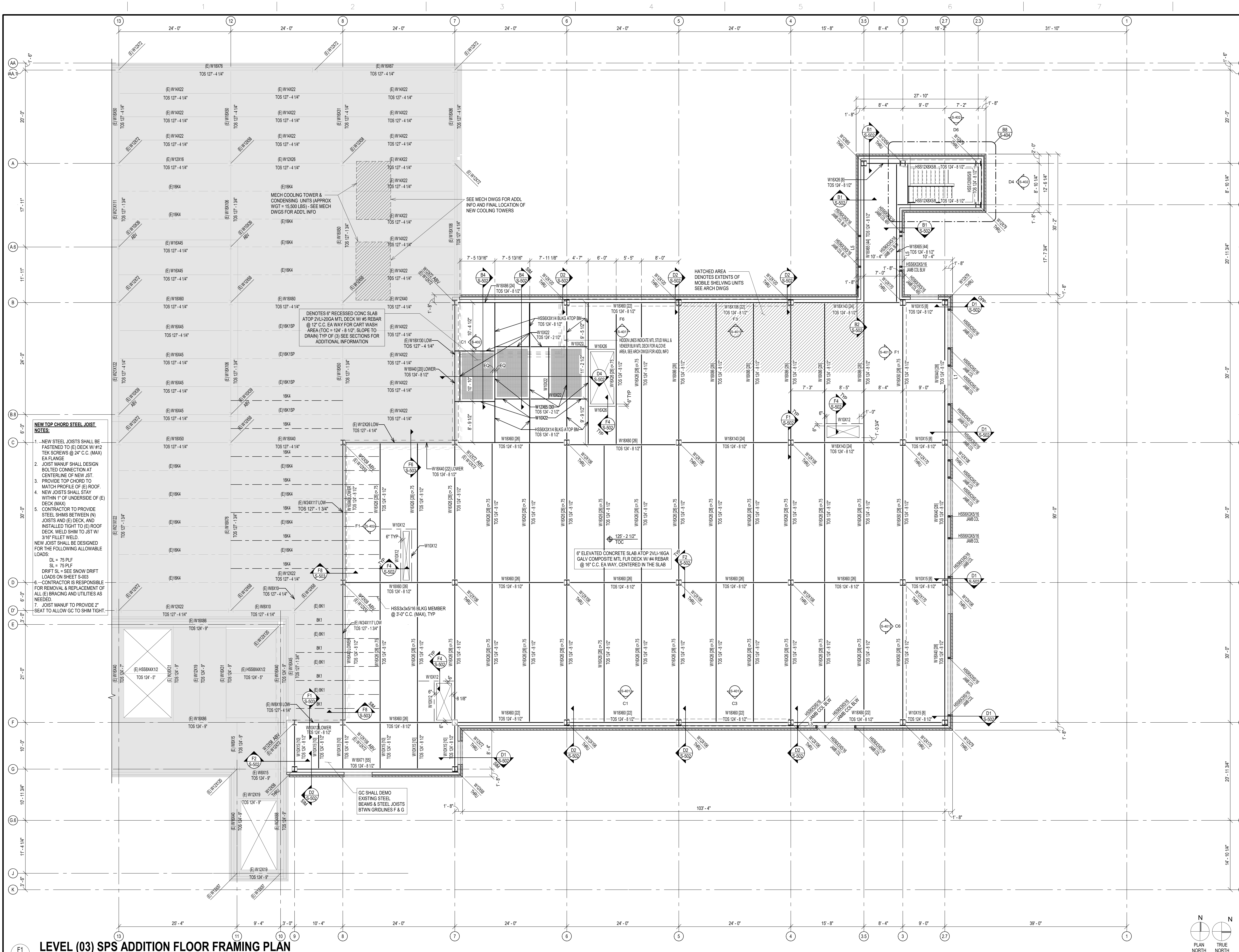
SHEET NOTES

FLOOR FRAMING PLAN NOTES

- SEE SHEET SERIES S-002 FOR STRUCTURAL GENERAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 100'-0" (MAIN FLOOR) + CIVIL ELEVATION 1234.5.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
- TOP OF EXISTING STEEL TOS ELEVATION = 112'-1.34"**
- ALL BEAM TO BEAM CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S-4, UNLESS OTHERWISE NOTED OR DETAILED.
- ALL BEAM TO WIDE FLANGE COLUMN CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S-4, UNLESS OTHERWISE NOTED OR DETAILED.
- FOR BEAM TO COLUMN MOMENT CONNECTIONS, SEE DETAILS ON SHEET SERIES S-6.
- FOR METAL STUD WALL REQUIREMENTS, SEE CORRESPONDING SECTIONS.
- FLOOR FRAMING MEMBERS BEING REINFORCED ON THIS INTERSTITIAL FRAMING PLAN LEVEL, IN ADDITION TO BEING DESIGNED TO SUPPORT THE NEW SPS STRUCTURAL FRAMING, HAVE BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURICAL LEVEL) AND ROOF ABOVE THE CURRENT SPS FLOOR (LEVEL 03). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.
- TBR** DENOTES EXISTING COMPOSITE STEEL BEAM THAT MUST BE REINFORCED TO SUPPORT ADDITIONAL LOADS FROM BUILDING ADDITION. SEE CORRESPONDING SECTIONS AND REPAIR DETAILS.
- AT DECK EDGE ANGLE SPLICE LOCATIONS, A 3/16" FULL LENGTH FILLET WELD SHALL BE PROVIDED.

SCHEDULES

CONSTRUCTION DOCUMENTS



- ### SHEET NOTES
- #### FLOOR FRAMING PLAN NOTES
- SEE SHEET SERIES S-001 FOR STRUCTURAL GENERAL NOTES.
 - VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
 - ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 100'-0" (MAIN FLOOR) + CIVIL ELEVATION 1234.5'.
 - SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
 - TOP OF STEEL (TOS) ELEVATION = 124'-8 1/2"** UNLESS NOTED OR DETAILED OTHERWISE. ELEVATIONS ARE AT CENTERLINE OF COLUMN OR BEARING, CAMBER BEAMS WHERE INDICATED.
 - ALL BEAM TO BEAM CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S6, UNLESS OTHERWISE NOTED OR DETAILED.
 - ALL COMPOSITE BEAMS SHALL BE EVENLY SPACED WITHIN MAIN BAYS (APPROXIMATELY 8'-0" C.C.) UNLESS NOTED OTHERWISE.
 - COMPOSITE FORM DECKING SHALL BE 2VL16GA (GALV) METAL DECKING, UNLESS NOTED OR DETAILED OTHERWISE. DECK SHALL HAVE A MINIMUM OF (2) SPANS. IF (2) SPANS IS NOT ACHIEVABLE, ANY SPAN OVER 9'-0" SHALL BE SHORED BEFORE PLACING CONCRETE SLAB.
 - COMPOSITE FORM DECKING SHALL BE ATTACHED TO SUPPORTING BEAMS W/ 3/4" x 4 1/2" AUTOMATIC WELDED STUDS AS DENOTED (X) ON EACH BEAM (EVENLY SPACED ALONG LENGTH OF BEAM). IF NO STUDS ARE PRESENT ALONG BEAM, DECKING SHALL BE ATTACHED TO STEEL BEAM W/ 5/8" PUDDLE WELD IN A 3/64 PATTERN. PROVIDE 10 SIDELAP FASTENERS (WELDED) PER SPAN.
 - "C" x "X" INDICATES UPWARD CAMBER IN BEAM.
 - FOR BEAM TO COLUMN MOMENT CONNECTIONS, SEE DETAILS ON SHEET SERIES S4.
 - PIPE PENETRATIONS THROUGH COMPOSITE FLOORS GREATER THAN 3" IN DIAMETER SHALL BE SLEEVED.
 - ELEVATED SLAB CONTROL JOINTS (CJ) SHALL BE SAWCUT WITHIN 8 HOURS OF POURING THE SLAB. SEE TYPICAL SECTION ON SHEET SERIES S6, CONTRACTOR TO SUBMIT SAWCUT PLAN FOR APPROVAL.
 - SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR OPENINGS IN FLOOR FRAMING. ALL OPENINGS LARGER THAN 12" SHALL BE ENCLOSED WITH EDGE FRAMING - SEE SHEET SERIES S6.
 - BEAMS SHALL BE EQUALLY SPACED BETWEEN SUPPORTING BAYS UNLESS OTHERWISE NOTED OR DIMENSIONED.
 - MAINTAIN MINIMUM SLAB THICKNESS INDICATED AT ALL LOCATIONS UNLESS NOTED OTHERWISE. VERIFY DURING PLACEMENT OPERATIONS. SLAB CONSTRUCTION JOINTS MUST BE ON CENTERLINE OF BEAMS. TYPICAL REINFORCING SHALL PASS THRU THE CONSTRUCTION JOINT.
 - FOR METAL STUD WALL REQUIREMENTS, SEE CORRESPONDING SECTIONS.
 - SEE SHEET SERIES S6 FOR METAL STUD LINTEL SCHEDULE.
 - NEW SPS STRUCTURAL FRAMING HAS BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL) AND ROOF ABOVE THE CURRENT SPS FLOOR (LEVEL 03). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.
 - SEE MECHANICAL DRAWINGS FOR REQUIREMENTS RELATED TO NOISE AND VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT.
 - ALL ADDITIONAL FRAMING MEMBERS REQUIRED TO TRANSFER LOADS FROM NON-STRUCTURAL ITEM(S) TO PRIMARY STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE NON-STRUCTURAL ITEMS).
 - CONTRACTOR TO REMOVE & REPLACE ANY EXISTING UTILITIES THAT CONFLICT WITH INSTALLATION OF NEW STEEL JOISTS BETWEEN GRIDLINES 8 & 12.
 - AT DECK EDGE ANGLE SPLICE LOCATIONS, A 3/16" FULL LENGTH FILLET WELD SHALL BE PROVIDED.
- LB (S-001) INDICATES LATERAL BRACED FRAME. SEE LATERAL BRACE ELEVATIONS AND DETAILS ON SHEET SERIES S4.
- LB (S-001) INDICATES JAMB COLUMN WITH CAST IN PLACE ANCHORS. SEE LINTEL SCHEDULE AND DIAGRAMS FOR EMBED PLATE AND ANCHOR REQUIREMENTS ON SHEET SERIES S-6.

SCHEDULES

PLAN NORTH		TRUE NORTH	
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LEVEL (03) SPS ADDITION FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

REFERENCED FROM:

CONSULTANTS:

TERRASITE DESIGN
1635 DEADWOOD AVENUE
RAPID CITY, SOUTH DAKOTA 57202
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ALBERTSON ENGINEERING, INC.
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ARCHITECT

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FAX: (605) 342-2377
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Drawing Title

LEVEL (03) FLOOR FRAMING PLA

Approved: Project Director

Omaha VA Medical Center

Project Title

Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location

4101 Woolworth Ave #4199 Omaha, NE 68105

Date

11/23/2020

Checked

LGF

Drawn

MDR

Project Number

16.2330.A08

Building Number

25

Drawing Number

S-103

Dwg. 67 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

COMPLIANCY REVIEW INCLUDED

2/23/2024

Revisions:

Date

5/17/2023 9:35:34 AM

SHEET NOTES

ROOF (FUTURE FLOOR) FRAMING PLAN NOTES

- SEE SHEET SERIES S-001 FOR STRUCTURAL GENERAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 100'-0" (MAIN FLOOR) + CIVIL ELEVATION 1234.5'.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
- TOP OF STEEL (TOS) ELEVATION = 137'-3.34"** UNLESS NOTED OR DETAILED OTHERWISE. ELEVATIONS ARE AT CENTERLINE OF COLUMN OR BEARING, CAMBER BEAMS WHERE INDICATED.
- ALL BEAM TO BEAM CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S6, UNLESS OTHERWISE NOTED OR DETAILED.
- ALL BEAM TO WIDE FLANGE COLUMN CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S6, UNLESS OTHERWISE NOTED OR DETAILED.
- ALL COMPOSITE BEAMS SHALL BE EVENLY SPACED WITHIN MAIN BAYS (APPROXIMATELY 6'-0" C.C.) UNLESS NOTED OTHERWISE.
- COMPOSITE FORM DECKING SHALL BE 2VL16GA (GALV) METAL DECKING, UNLESS NOTED OR DETAILED OTHERWISE. DECK SHALL HAVE A MINIMUM OF (2) SPANS. IF (2) SPANS IS NOT ACHIEVABLE, ANY SPAN OVER 9'-0" SHALL BE SHORED BEFORE PLACING CONCRETE SLAB.
- COMPOSITE FORM DECKING SHALL BE ATTACHED TO SUPPORTING BEAMS W/ 3/4" x 4 1/2" AUTOMATIC WELDED STUDS AS DENOTED (X) ON EACH BEAM EVENLY SPACED ALONG LENGTH OF BEAM. IF NO STUDS ARE PRESENT ALONG BEAM, DECKING SHALL BE ATTACHED TO STEEL BEAM W/ 5/8" PUDDLE WELD IN A 36X4 PATTERN. PROVIDE 10 SIDELAP FASTENERS (WELDED) PER SPAN.
- "C" = "X" INDICATED UPWARD CAMBER IN BEAM.
- FOR BEAM TO COLUMN MOMENT CONNECTIONS, SEE DETAILS ON SHEET SERIES S4.
- PIPE PENETRATIONS THROUGH COMPOSITE FLOORS GREATER THAN 3" IN DIAMETER SHALL BE SLEEVED.
- ELEVATED SLAB CONTROL JOINTS (CJ) SHALL BE SAWCUT WITHIN 8 HOURS OF POURING THE SLAB. SEE TYPICAL SECTION ON SHEET SERIES S6, CONTRACTOR TO SUBMIT SAWCUT PLAN FOR APPROVAL.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR OPENINGS IN FLOOR FRAMING. ALL OPENINGS LARGER THAN 12" SHALL BE ENCLOSED WITH EDGE FRAMING - SEE SHEET SERIES S6.
- BEAMS SHALL BE EQUALLY SPACED BETWEEN SUPPORTING BAYS UNLESS OTHERWISE NOTED OR DIMENSIONED.
- MAINTAIN MINIMUM SLAB THICKNESS INDICATED AT ALL LOCATIONS UNLESS NOTED OTHERWISE. VERIFY DURING PLACEMENT OPERATIONS. SLAB CONSTRUCTION JOINTS MUST BE ON CENTERLINE OF BEAMS. TYPICAL REINFORCING SHALL PASS THRU THE CONSTRUCTION JOINT.
- FOR METAL STUD WALL REQUIREMENTS, SEE CORRESPONDING SECTIONS.
- SEE SHEET SERIES S6 FOR METAL STUD LINTEL SCHEDULE.
- NEW SPS STRUCTURAL FRAMING HAS BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL) AND ROOF ABOVE THE CURRENT SPS FLOOR (LEVEL 03). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.
- FRAMING SHOWN BETWEEN GRIDLINES 12 & 13 AND A & B.8 DENOTES EXISTING PENTHOUSE ROOF FRAMING FROM 2005 ICU ADDITION AND RENOVATION PROJECT.
- SEE MECHANICAL DRAWINGS FOR REQUIREMENTS RELATED TO NOISE AND VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT.
- ALL ADDITIONAL FRAMING MEMBERS REQUIRED TO TRANSFER LOADS FROM NON-STRUCTURAL ITEM TO PRIMARY STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE NON-STRUCTURAL ITEM.
- AT DECK EDGE ANGLE SPLICE LOCATIONS, A 3/16" FILLET WELD SHALL BE PROVIDED.

INDICATES LATERAL BRACED FRAME. SEE LATERAL BRACE ELEVATIONS AND DETAILS ON SHEET SERIES S4.

INDICATES MOMENT CONNECTION.

SCHEDULES

CONSTRUCTION DOCUMENTS

LEVEL (04) SPS ADDITION ROOF FRAMING PLAN (FUTURE SURGICAL FLOOR FRAMING PLAN)

SCALE: 1/8" = 1'-0"

REFERENCED FROM:

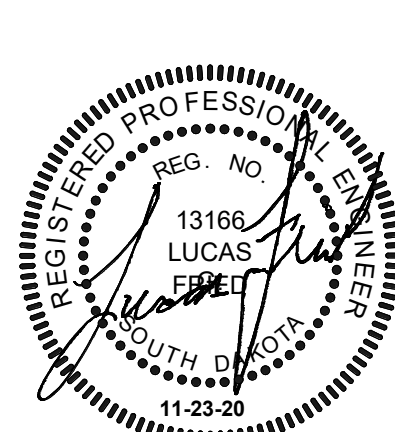
CONSULTANTS:

TERRASITE DESIGN
1635 DEADWOOD AVENUE
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Albertson Engineering Inc.

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Drawing Title

LEVEL (04) ROOF FRAMING PLAN

Approved: Project Director

Omaha VA Medical Center

16.2330.A08

Project Title

Design/Construct Sterile
Processing Service- Omaha VA
Medical Center

Location 4101 Woolworth Ave #4199
Omaha, NE 68105

Date

11/23/2020

Checked

LGF

Drawn

MDR

Project Number

16.2330.A08

Building Number

25

Drawing Number

S-104

Dwg. 68 of 143

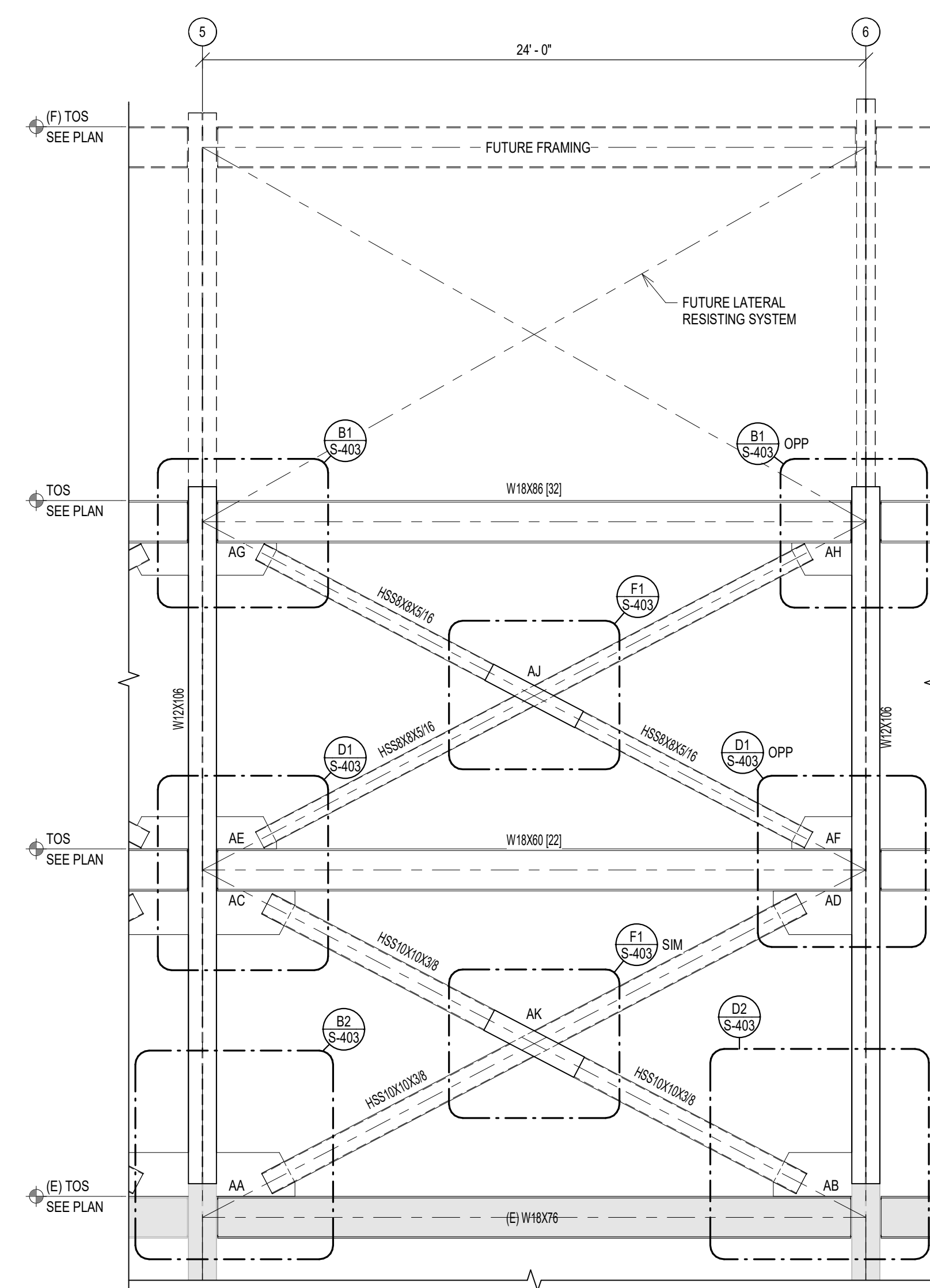
Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

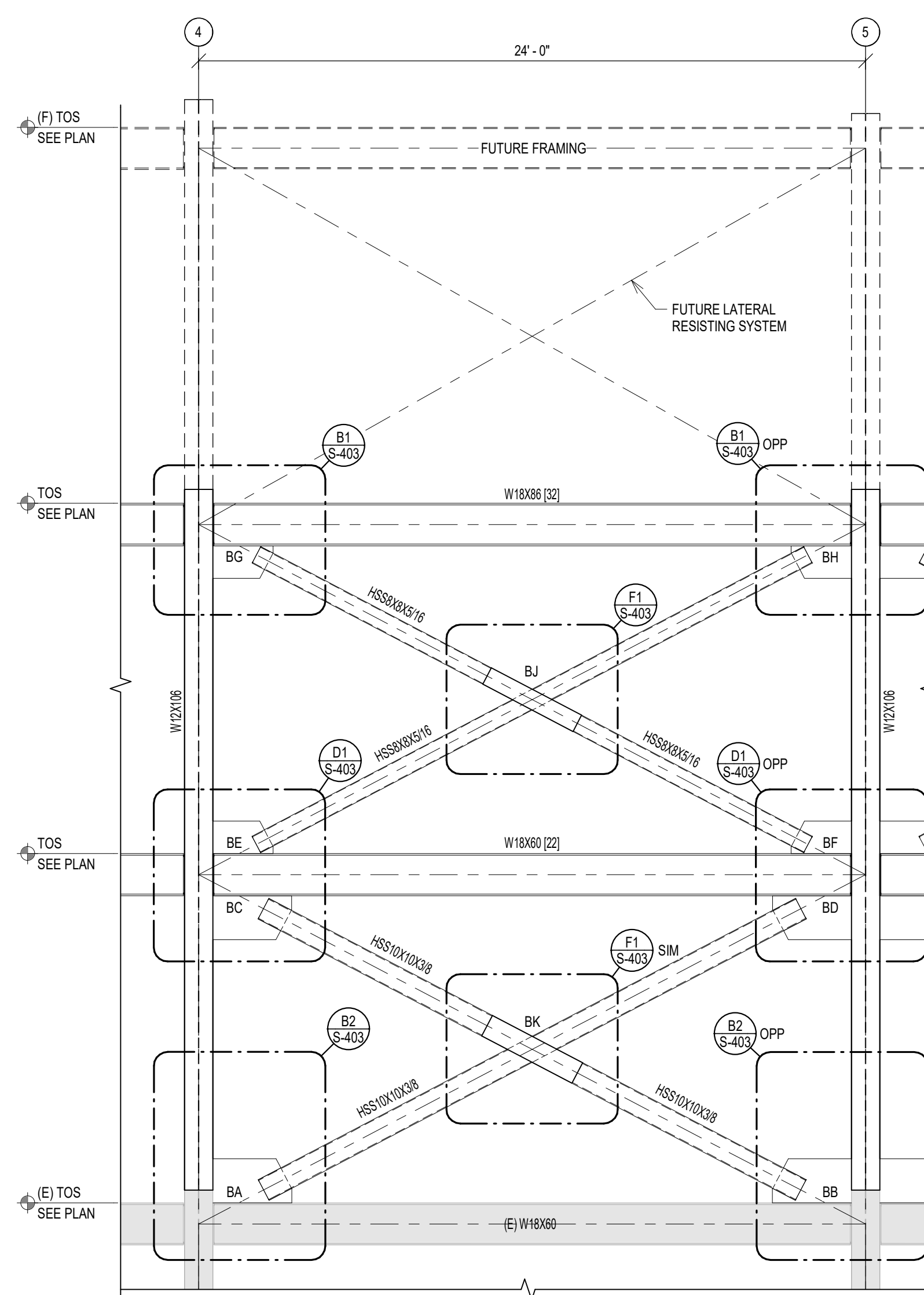
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S-104

COMPLIANCY REVIEW INCLUDED
Revisions:

2/23/2024
Date



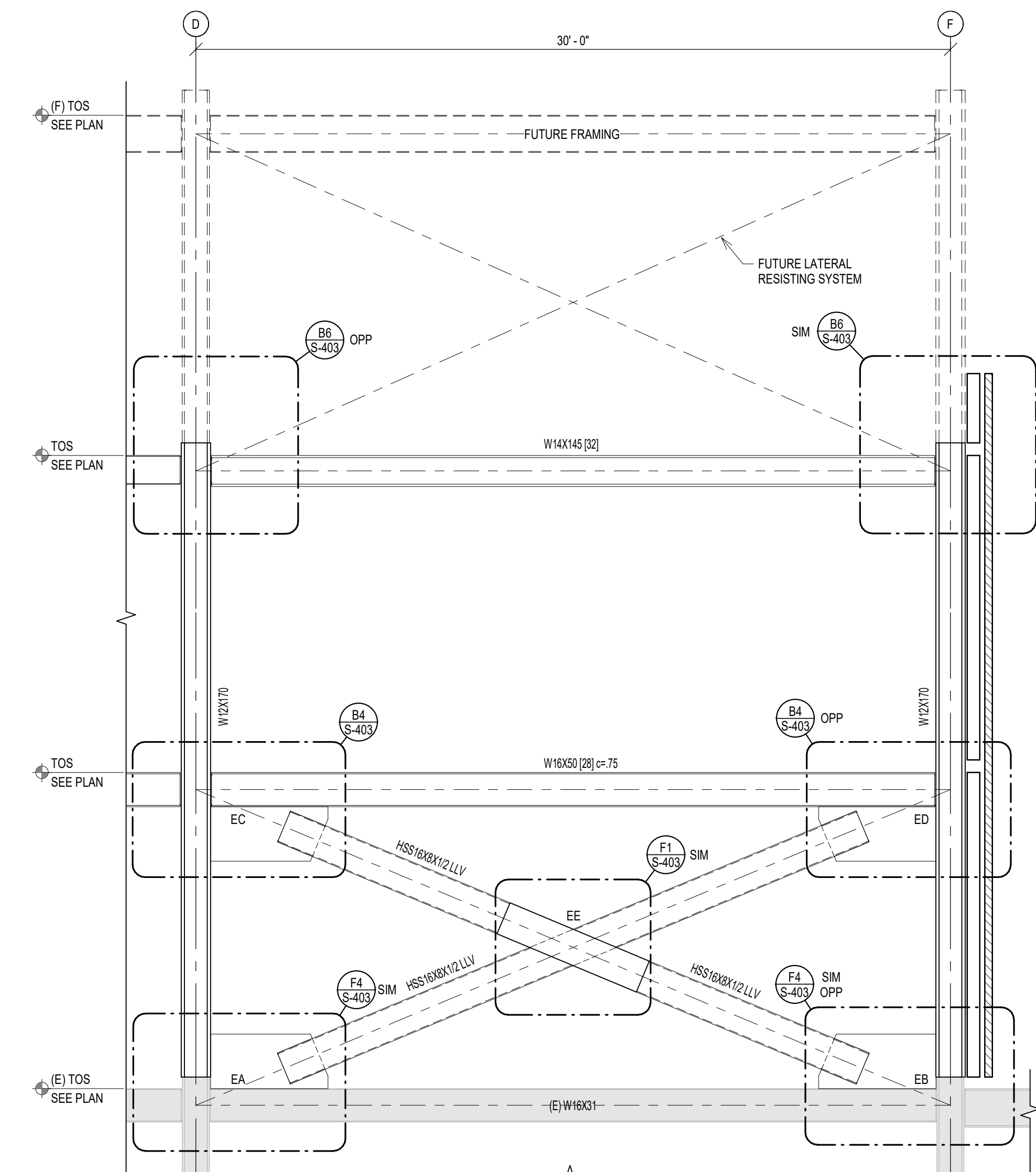
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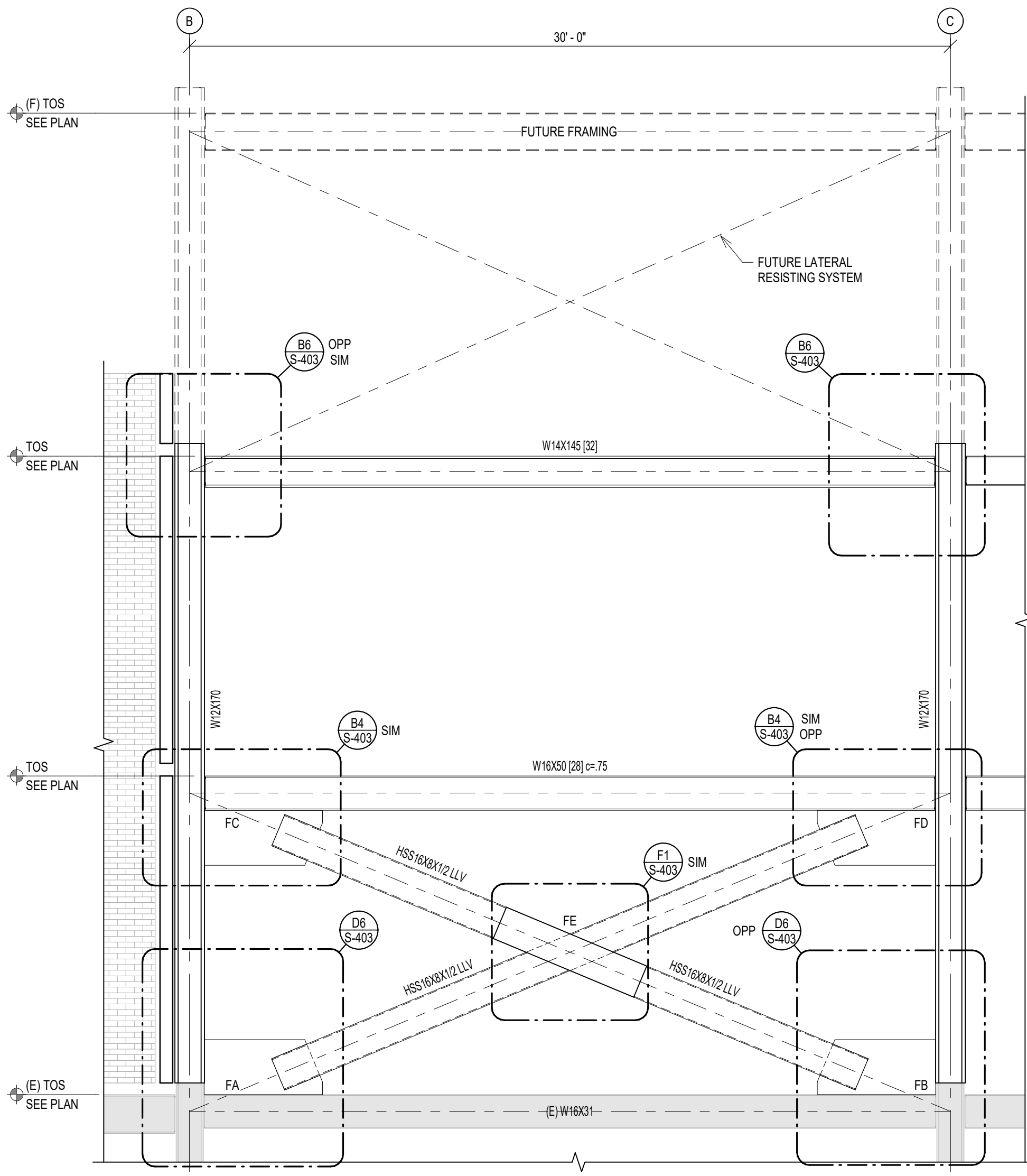
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S-401

LATERAL BRACE FRAMING - LB2

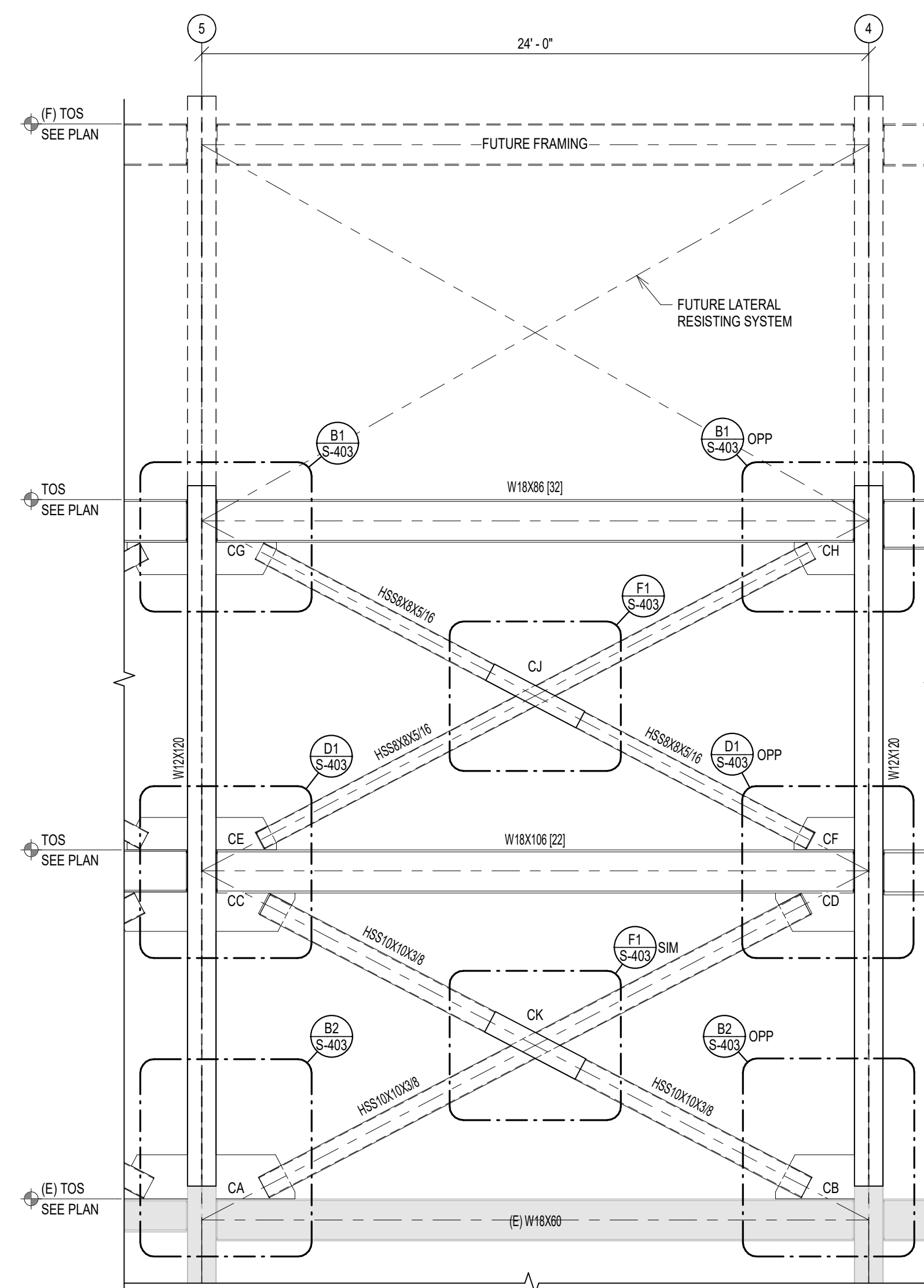
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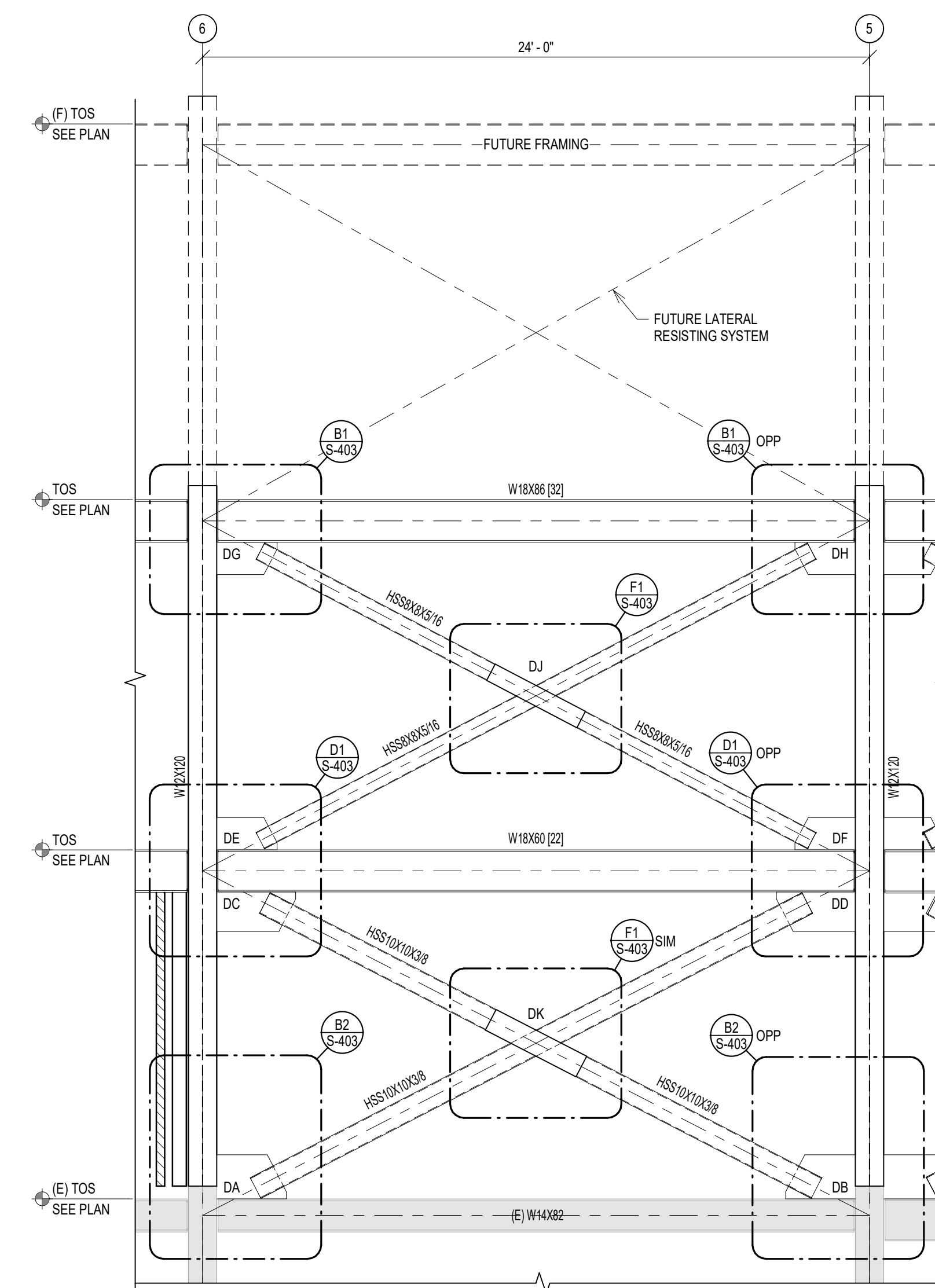
LATERAL BRACE FRAMING - LB3



LATERAL BRACE FRAMING - LB4



LATERAL BRACE FRAMING - LB5



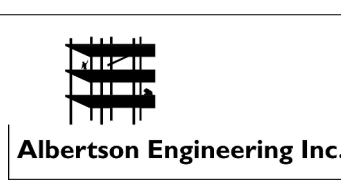
LATERAL BRACE FRAMING - LB6

COMPLIANCY REVIEW INCLUDED	2/23/2024
Revisions:	Date

CONSULTANTS:



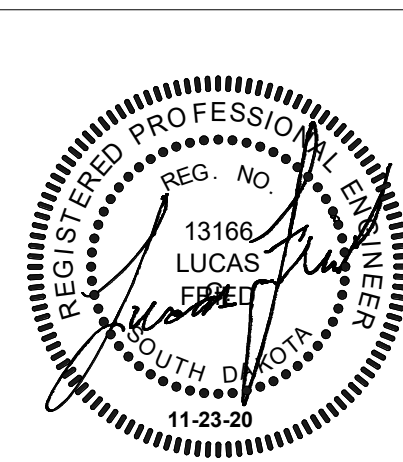
TERRASITE DESIGN
1635 DEADWOOD AVENUE
RAPID CITY, SOUTH DAKOTA 57702
PH: (605) 791-1736



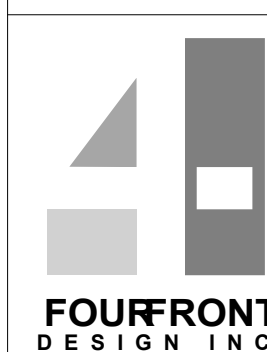
ALBERTSON ENGINEERING, INC.
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57701
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16.2330.A08

Drawing Title
LATERAL FRAMING ELEVATIONS
Approved: Project Director
Omaha VA Medical Center

Project Title	Design/Construct Sterile Processing Service- Omaha VA Medical Center
Location	4101 Woolworth Ave #4199 Omaha, NE 68105

Project Number	16.2330.A08
Building Number	25
Drawing Number	S-401

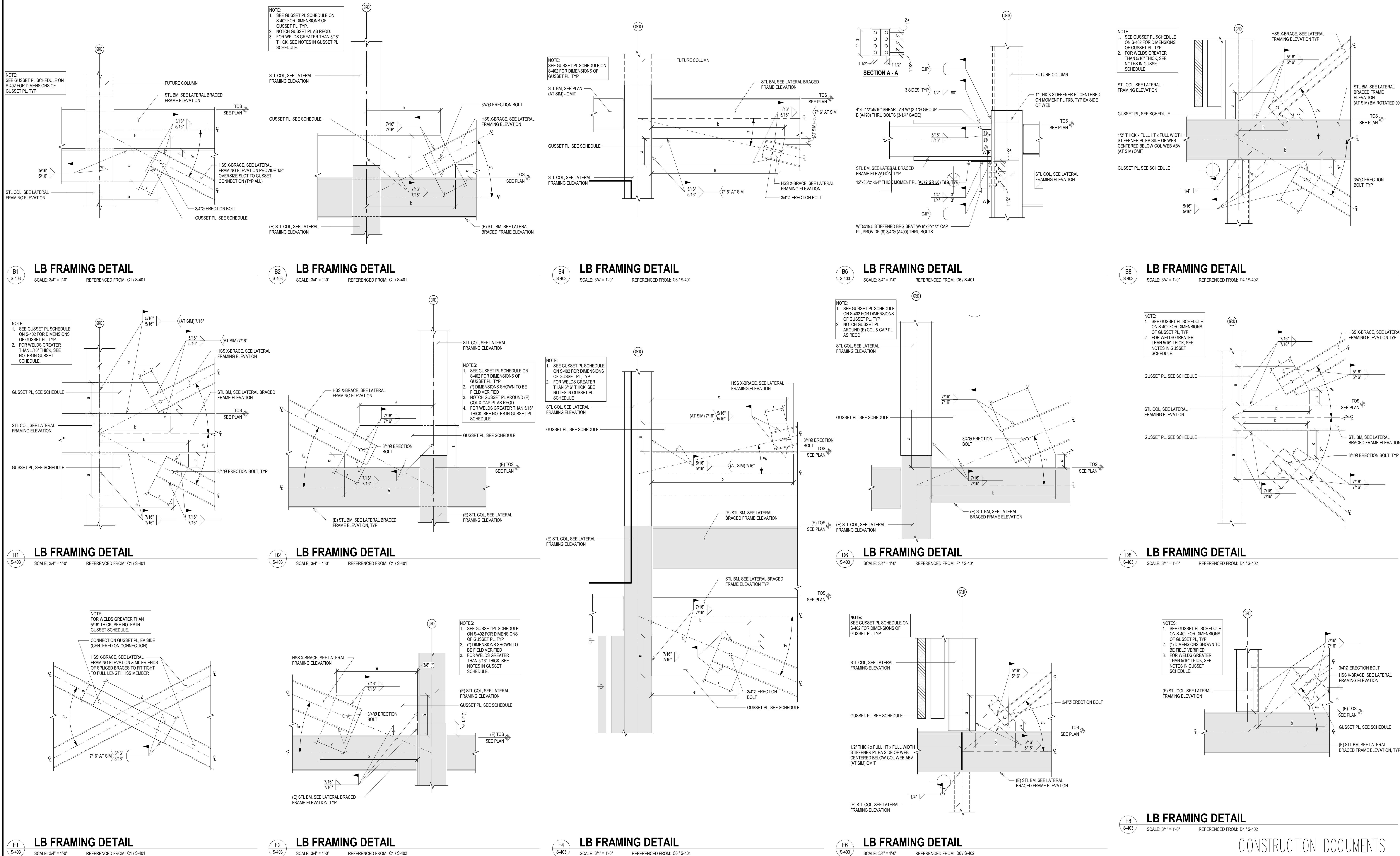
Office of
Construction
and Facilities
Management



CONSTRUCTION DOCUMENTS

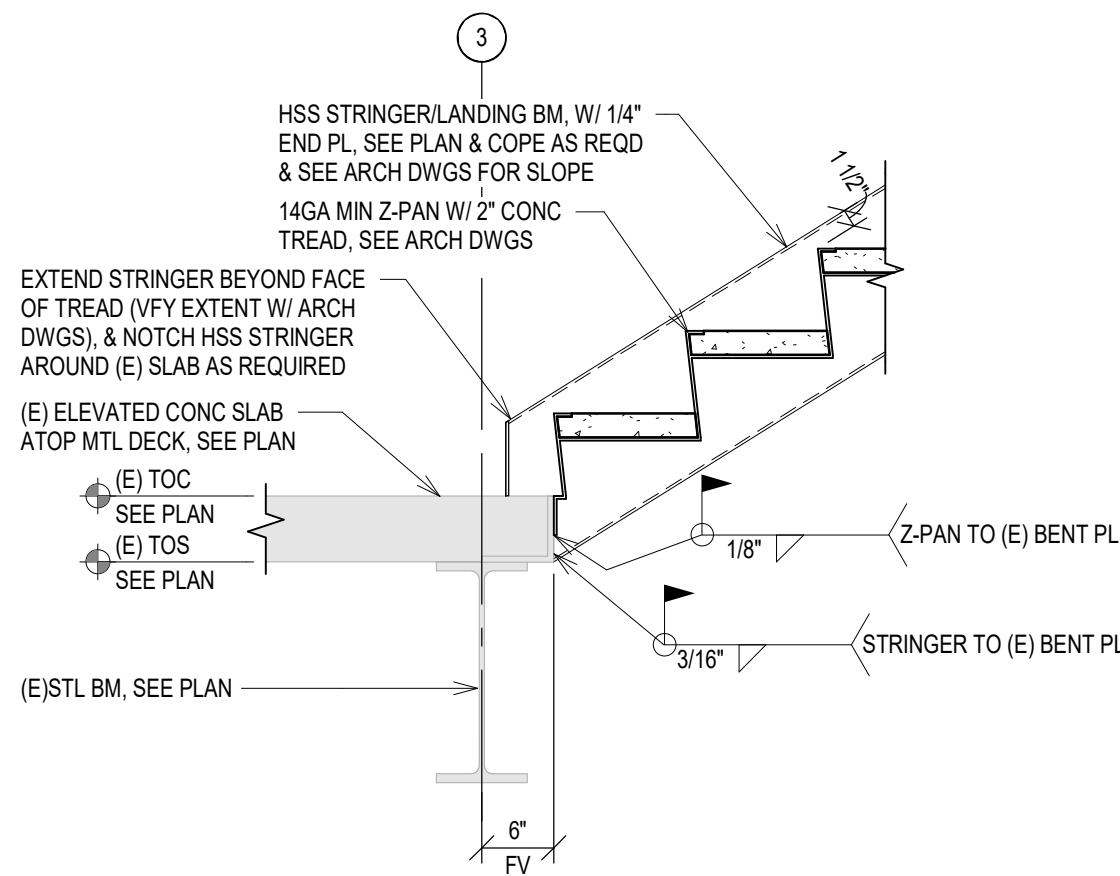
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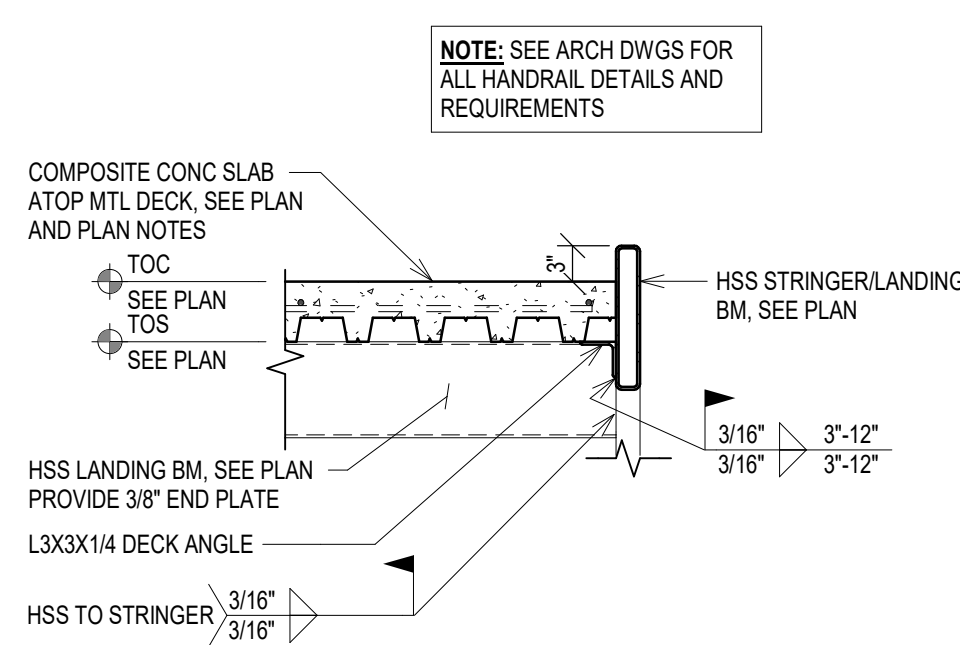


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CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Drawing Title LATERAL FRAMING DETAILS & SCHEDULE Approved: Project Director Omaha VA Medical Center 16.2330.A08		Project Title Design/Construct Sterile Processing Service- Omaha VA Medical Center Location 4101 Woolworth Ave #4199 Omaha, NE 68105 Date 11/23/2020 Checked LGF Drawn MDR		Project Number 16.2330.A08 Building Number 25 Drawing Number S-403 Dwg. 71 of 143		Office of Construction and Facilities Management Department of Veterans Affairs	

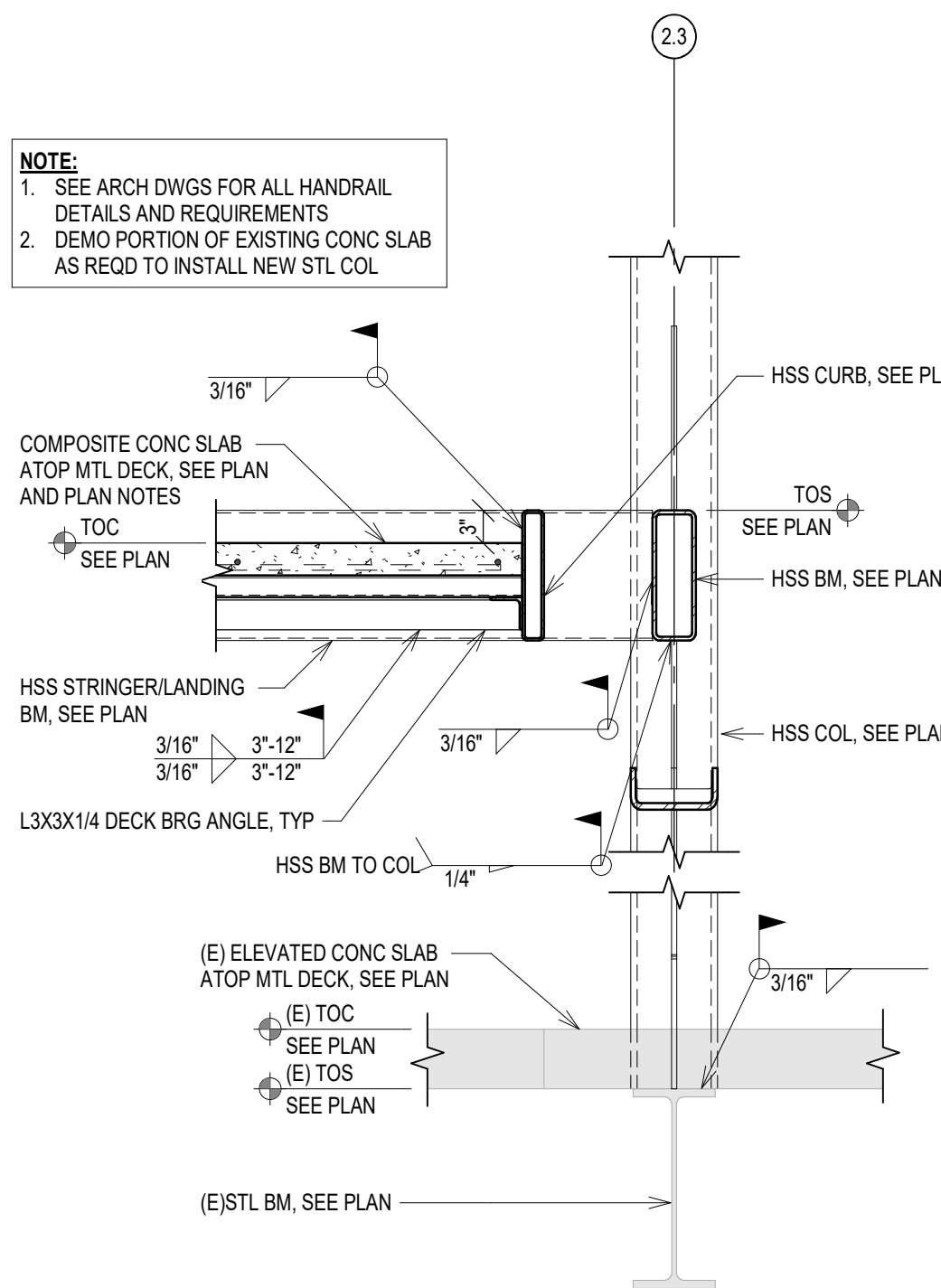
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REFERENCED FROM: D8 / S-404



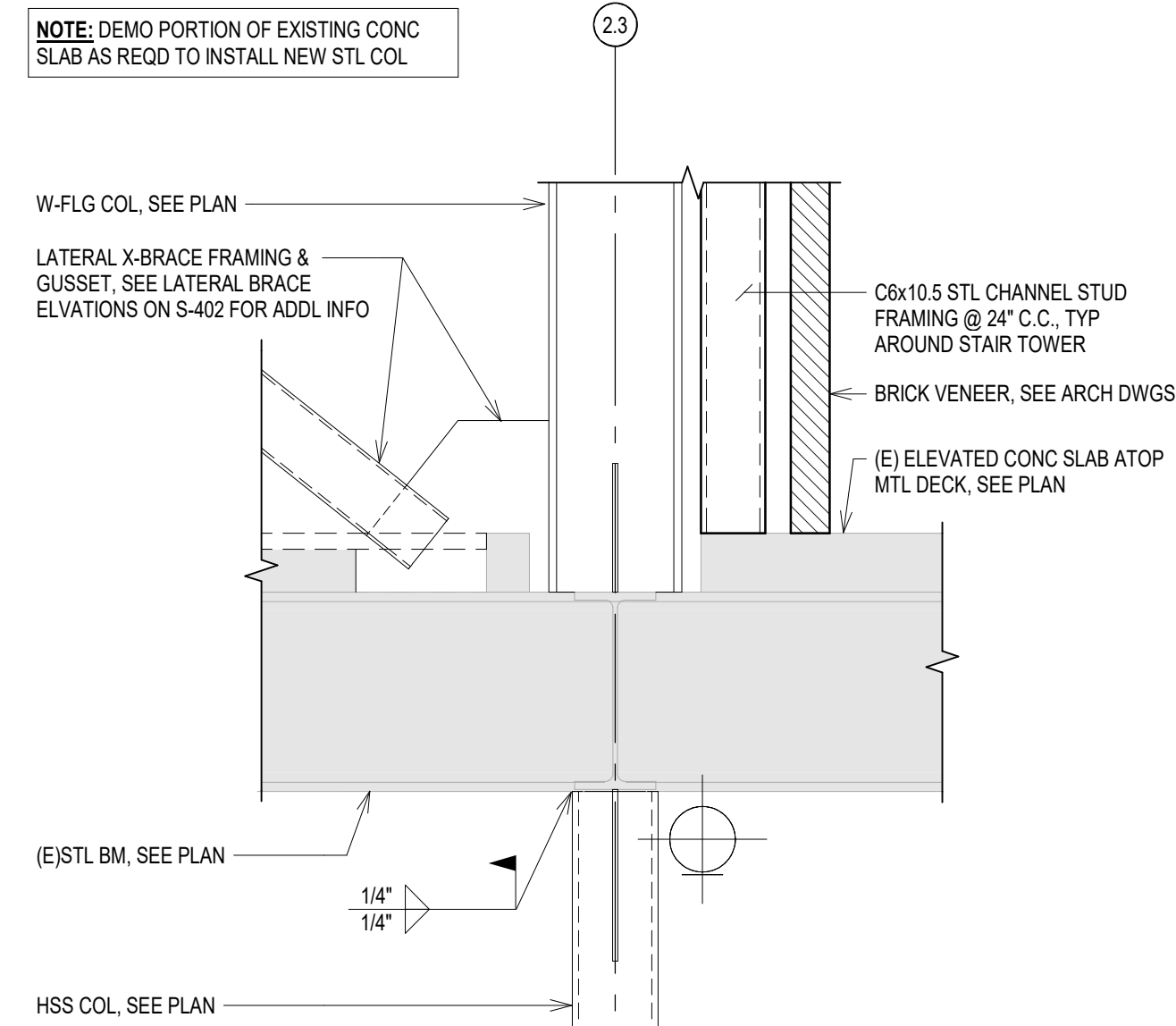
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REFERENCED FROM: B6 / S-404



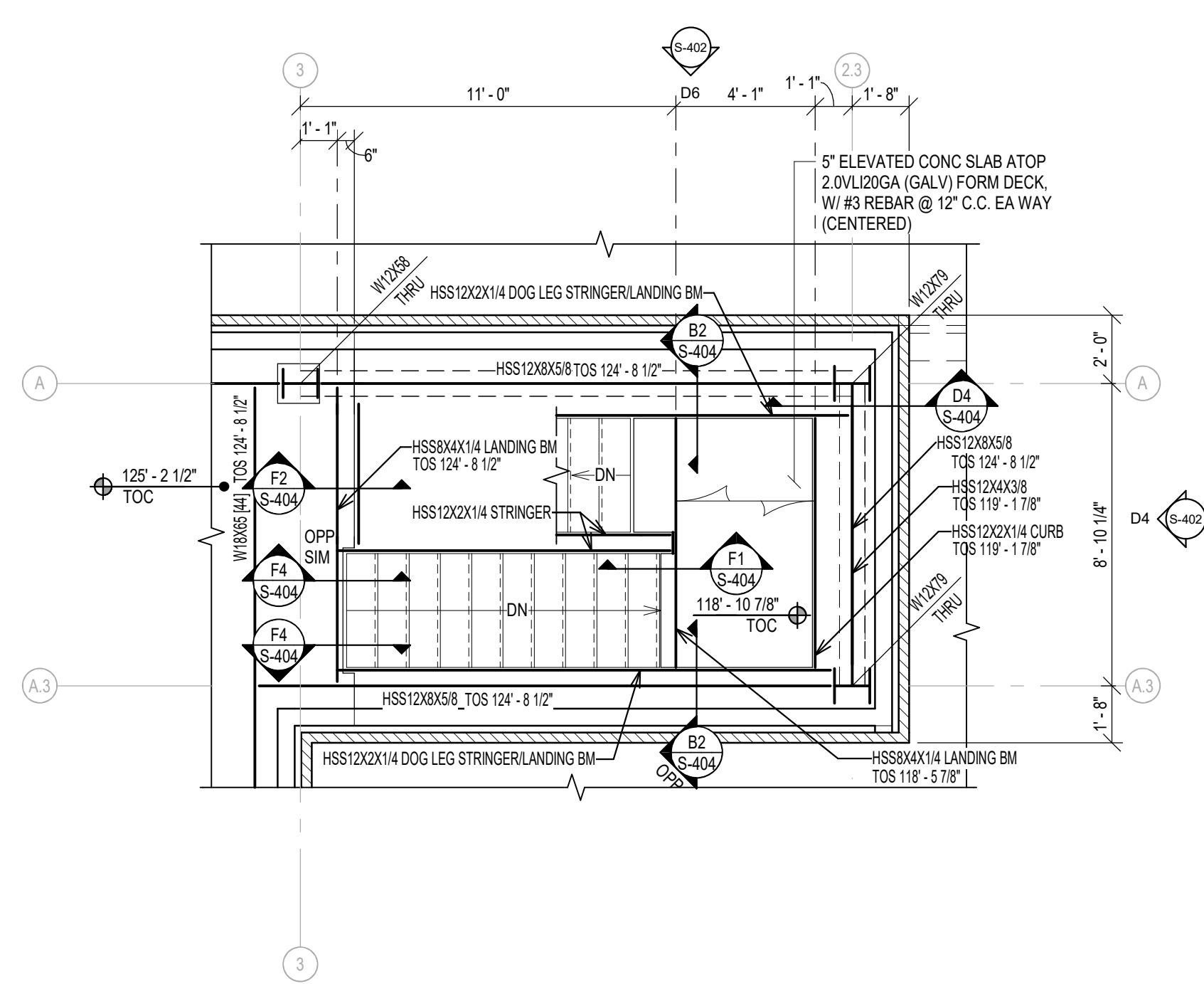
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SCALE: 3/4" = 1'-0"
REFERENCED FROM: F8 / S-404



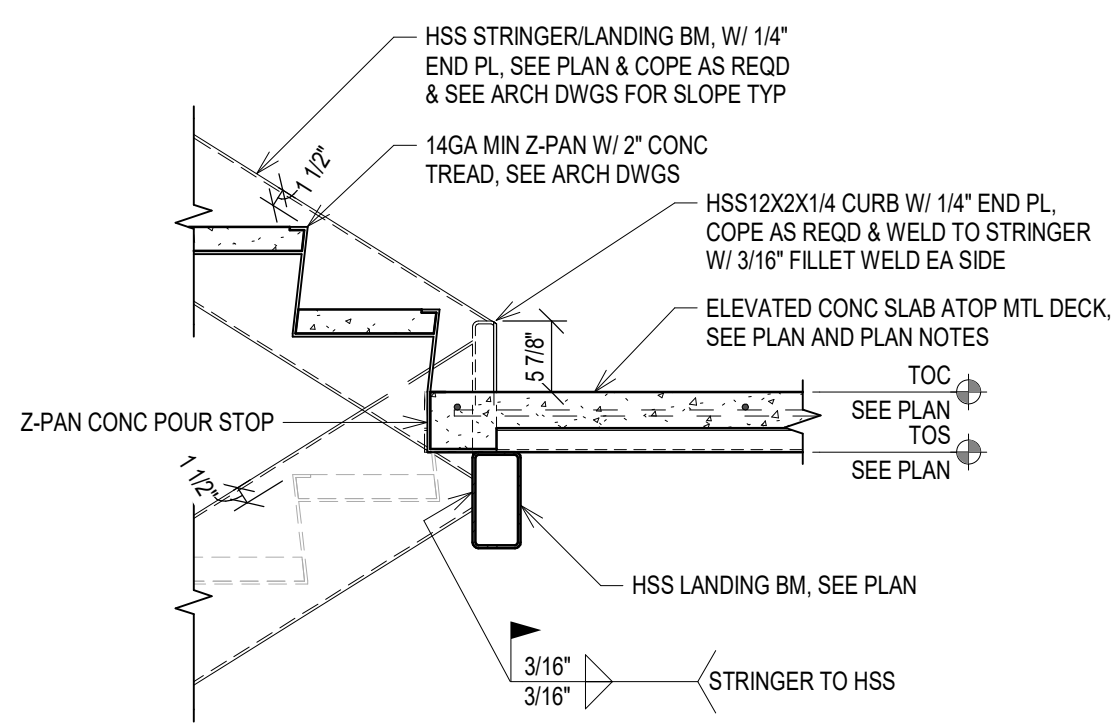
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REFERENCED FROM: D8 / S-404



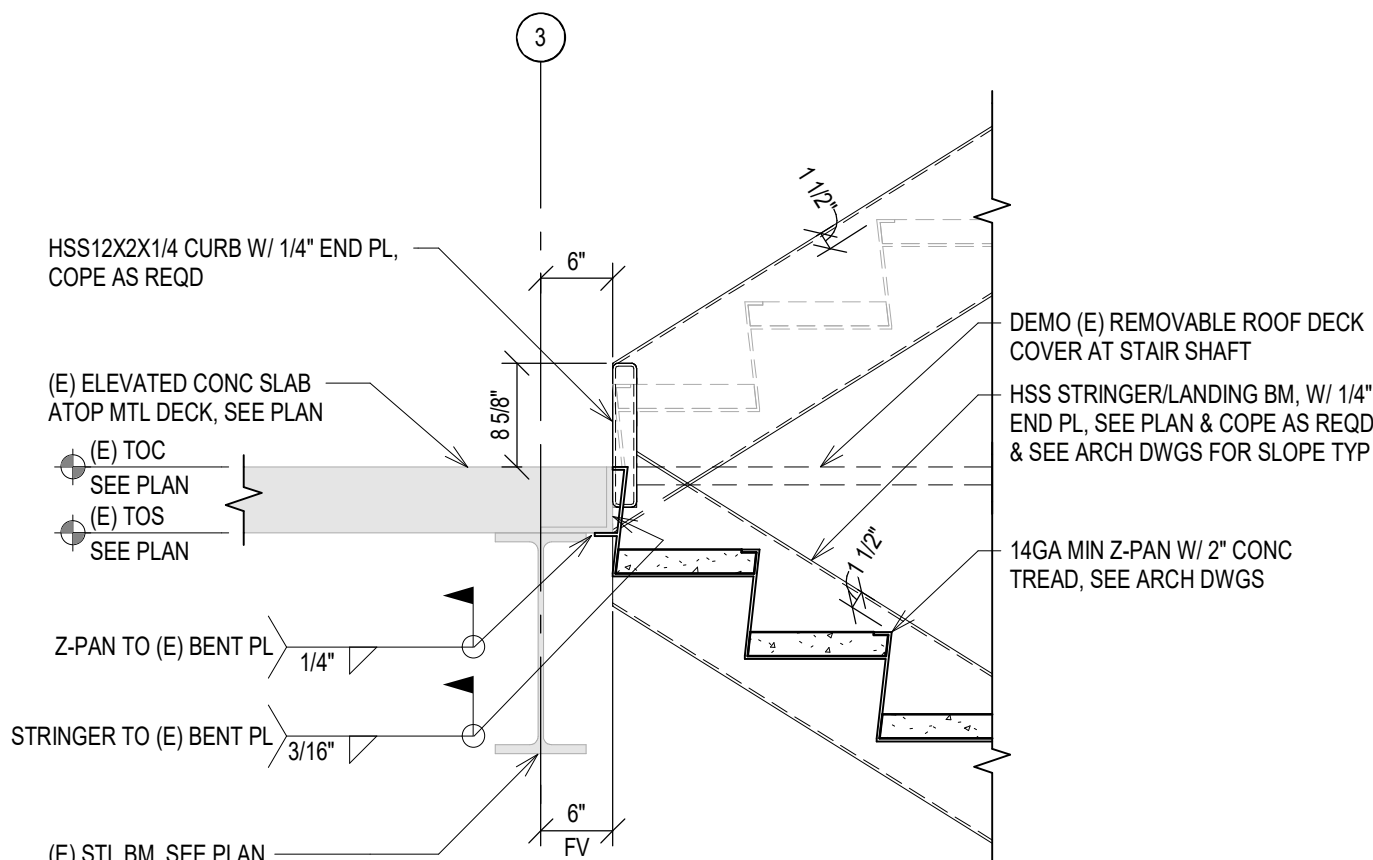
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REFERENCED FROM: F1 / S-103



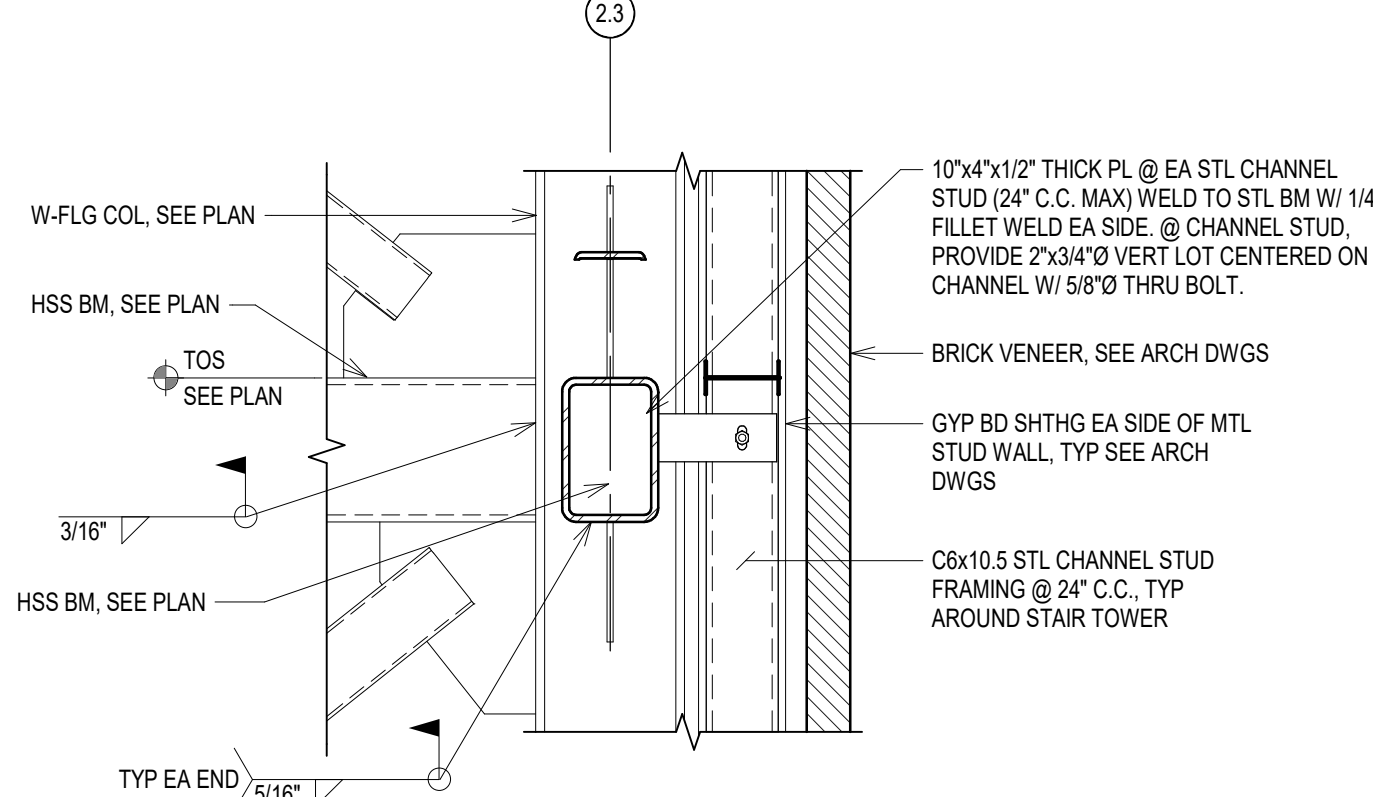
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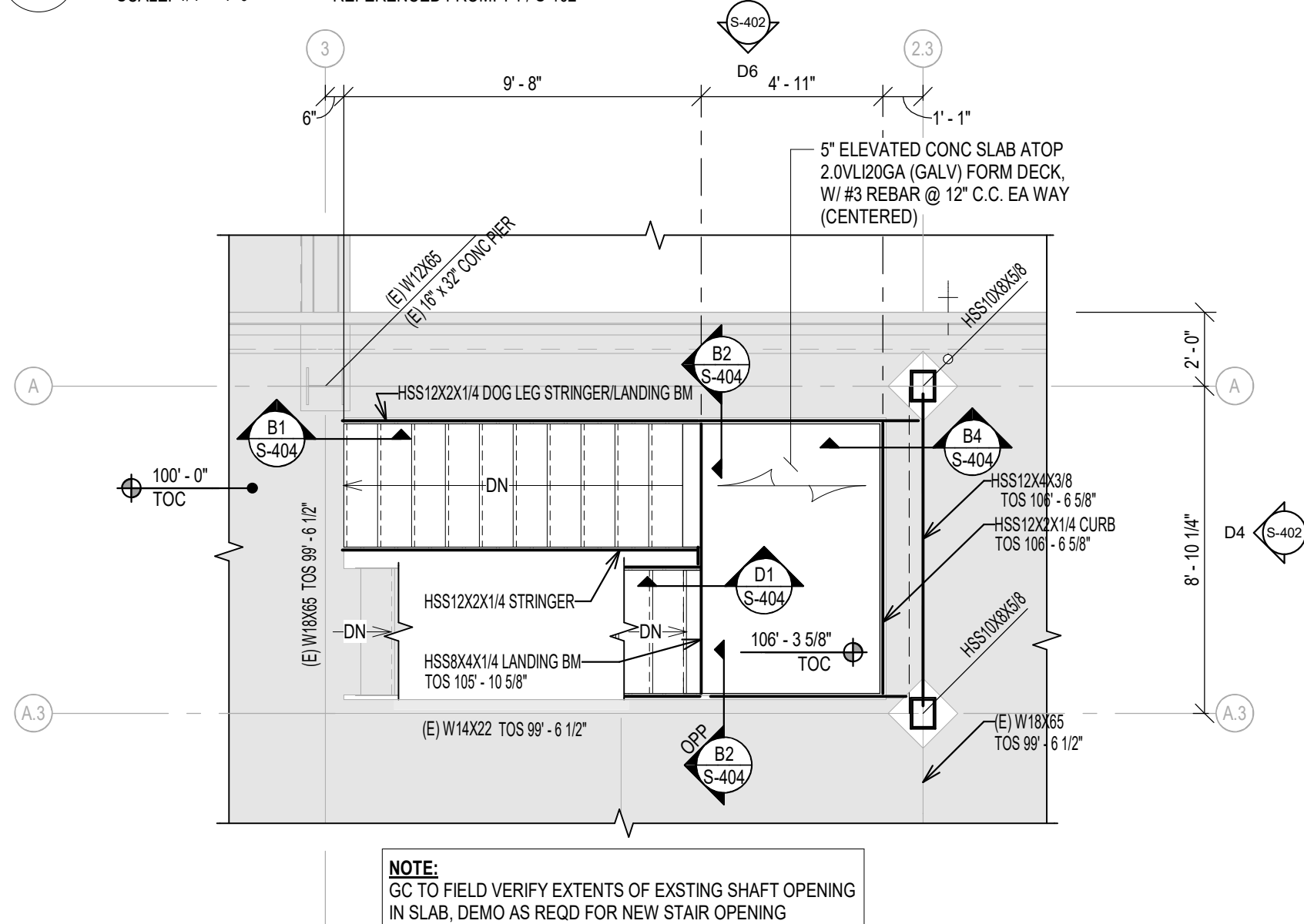
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REFERENCED FROM: D8 / S-404



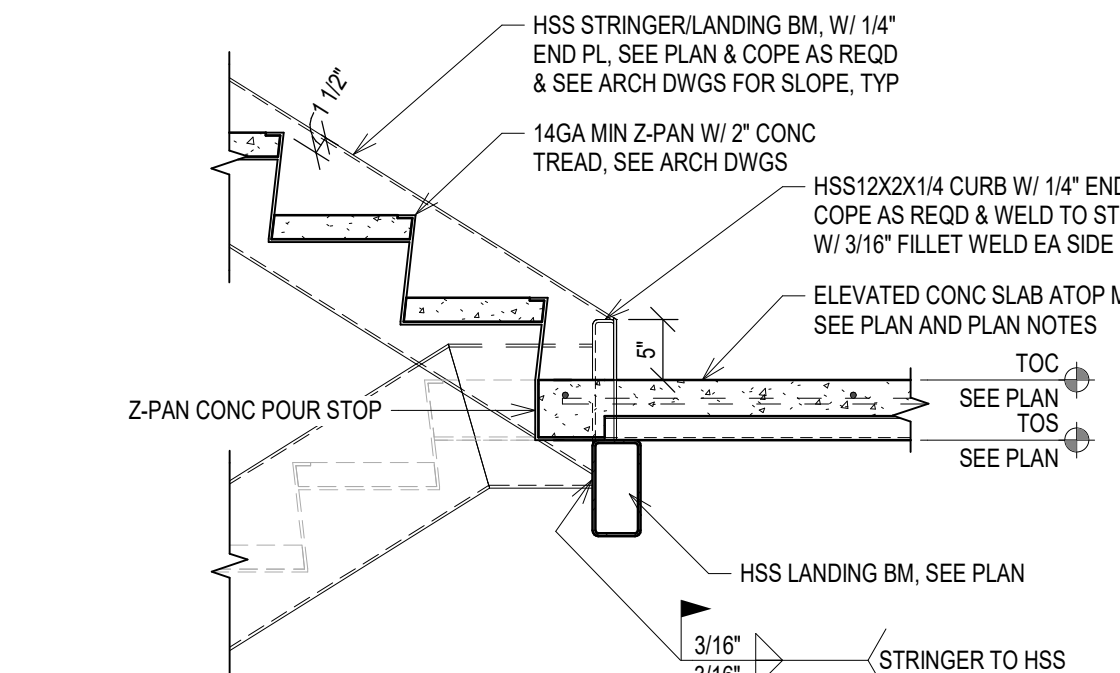
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REFERENCED FROM: B8 / S-404



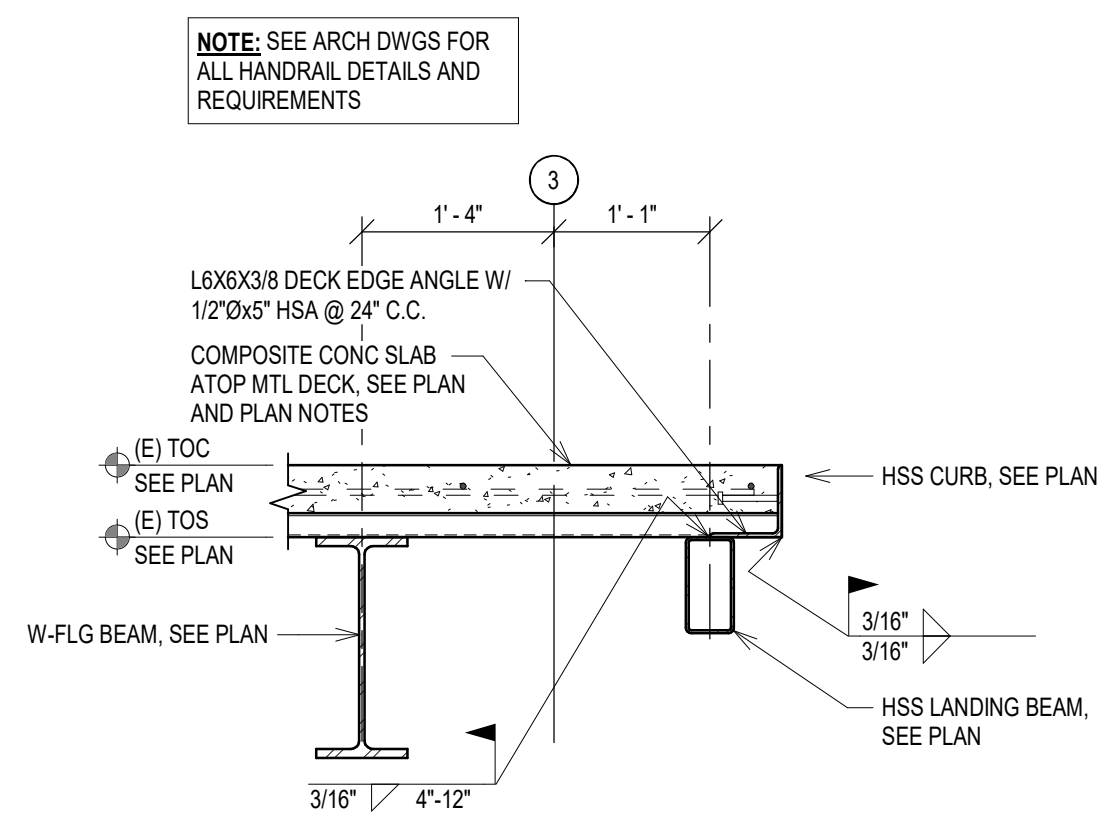
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REFERENCED FROM: F1 / S-102



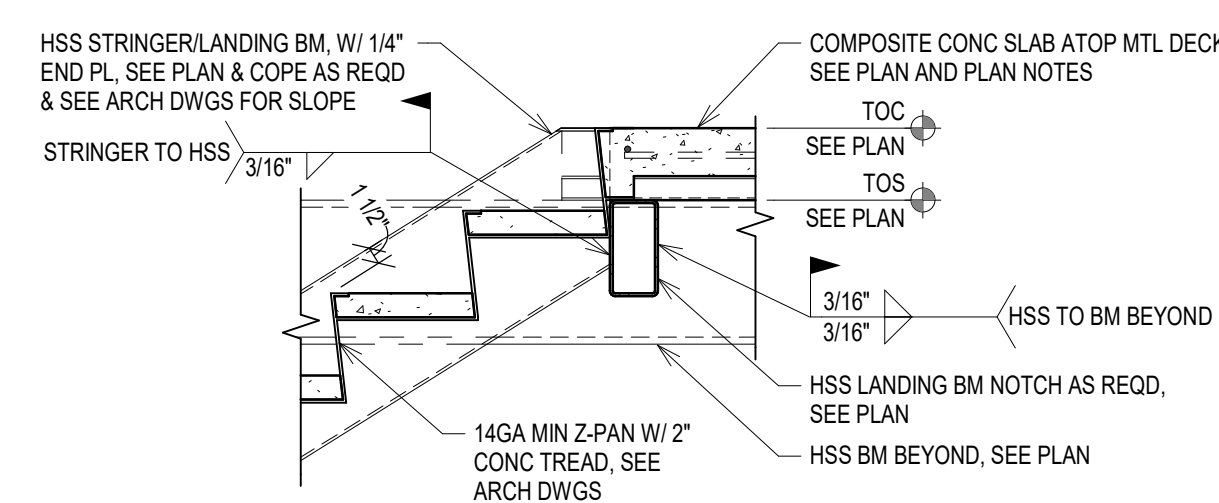
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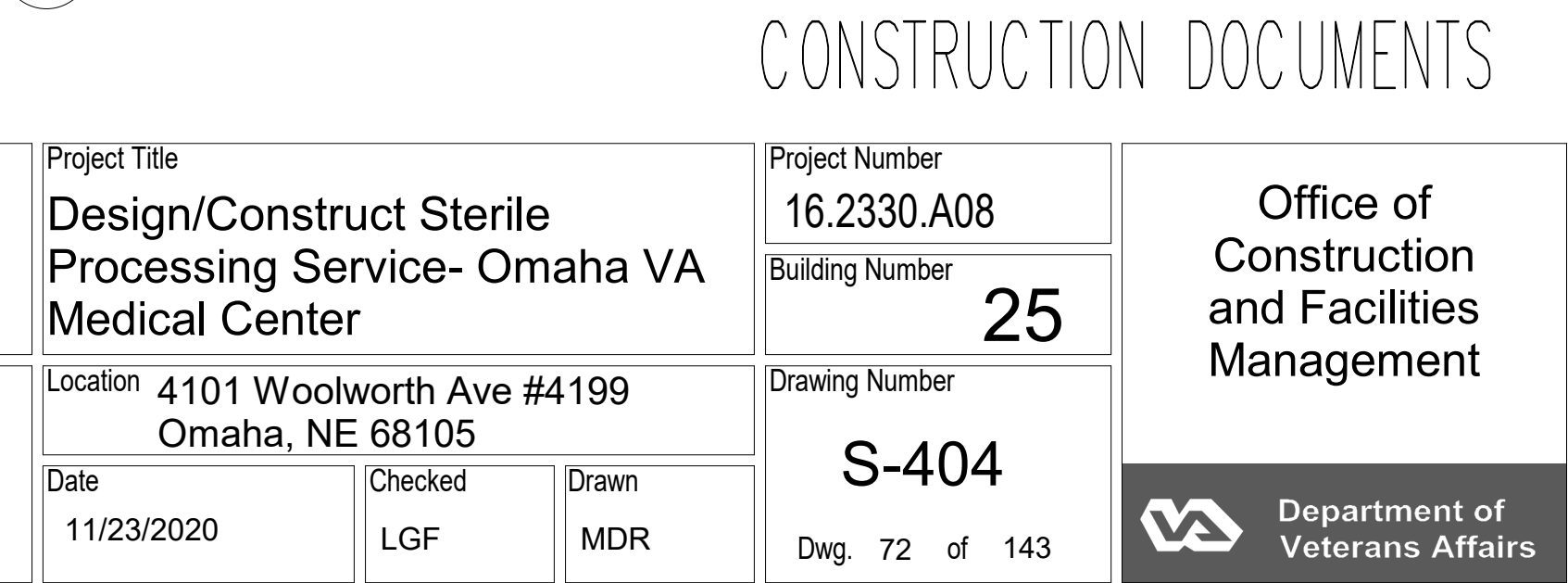
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REFERENCED FROM: B8 / S-404



F4 STAIR FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: B8 / S-404



F8 ENLARGED STAIR FRMG PLAN - 1ST FLR TO LANDING
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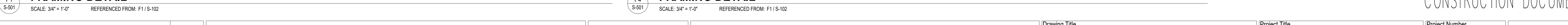
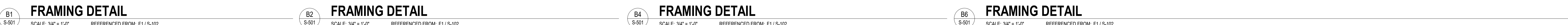


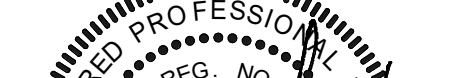
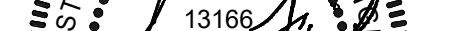
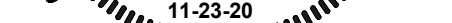
COMPLIANCY REVIEW INCLUDED	2/23/2024
Revisions:	Date

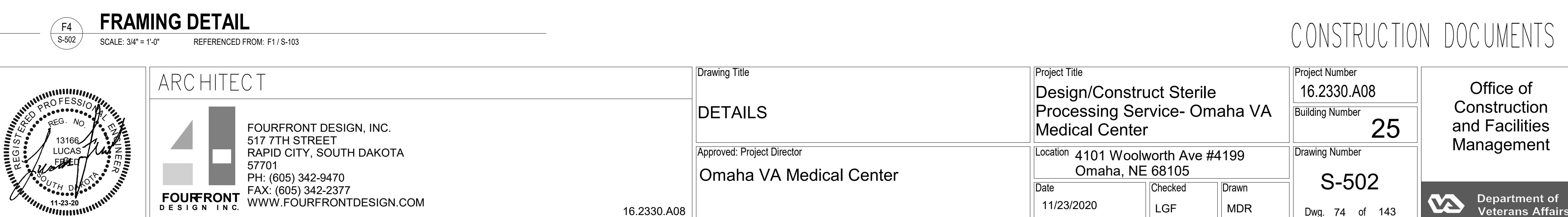
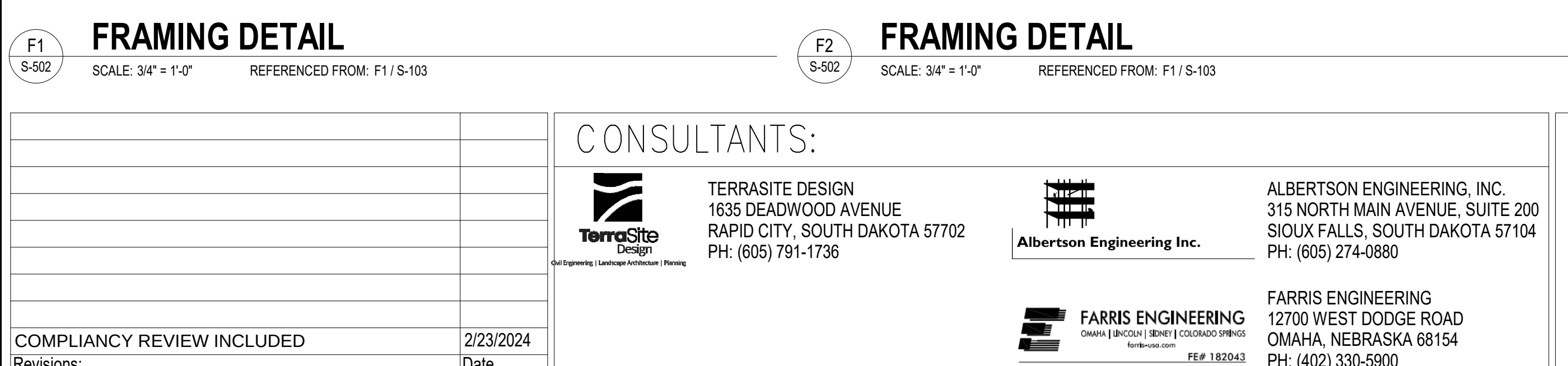
CONSULTANTS:	
TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736	ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880
FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900	

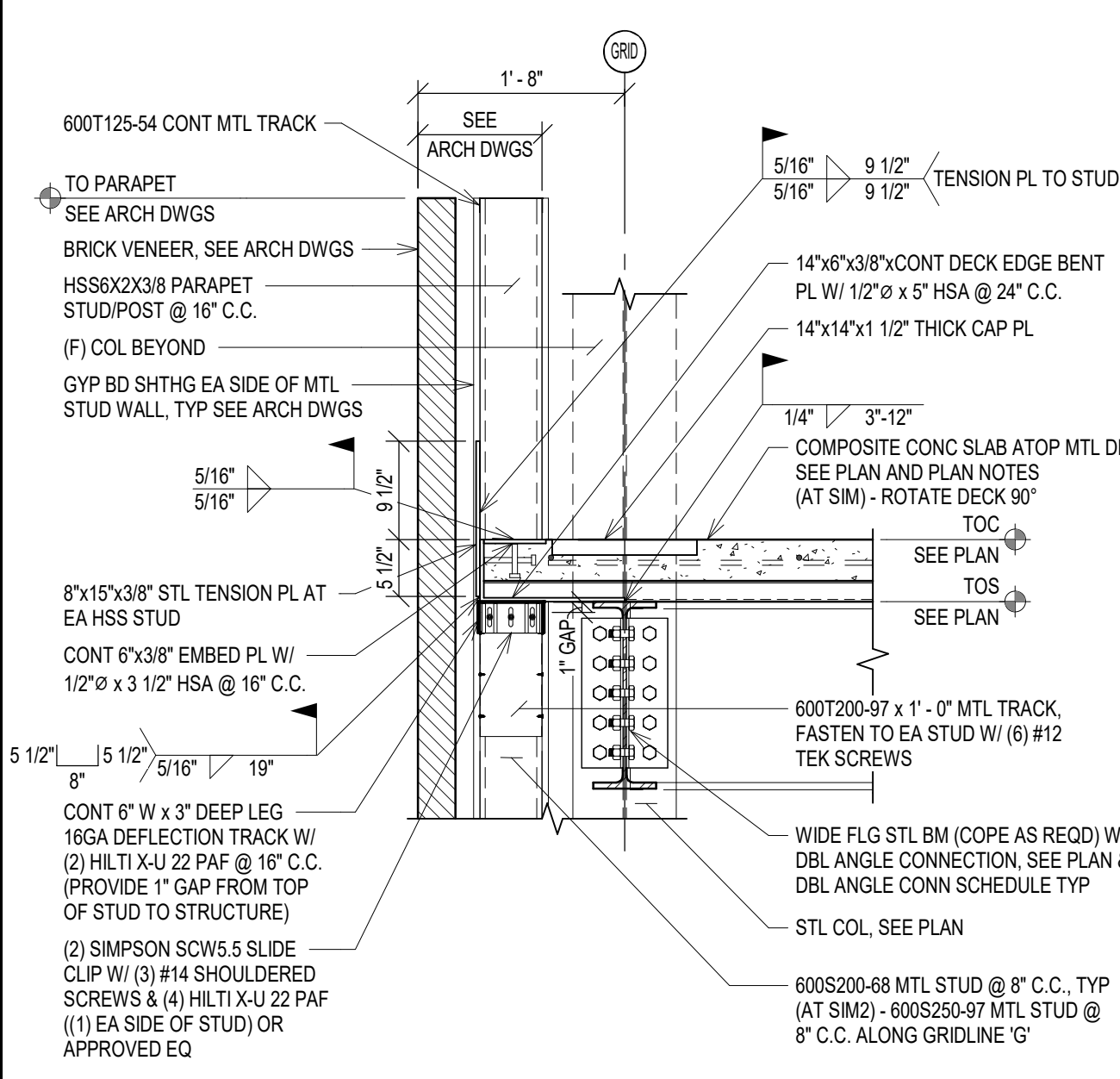
ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	
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Drawing Title ENLARGED STAIR FRAMING PLANS	Project Title Design/Construct Sterile Processing Service- Omaha VA Medical Center	Project Number 16.2330.A08	Office of Construction and Facilities Management
Approved: Project Director Omaha VA Medical Center	Location 4101 Woolworth Ave #4199 Omaha, NE 68105	Building Number 25	
Date 11/23/2020	Checked LGF	Drawn MDR	
Drawing Number S-404		Dwg. 72 of 143	

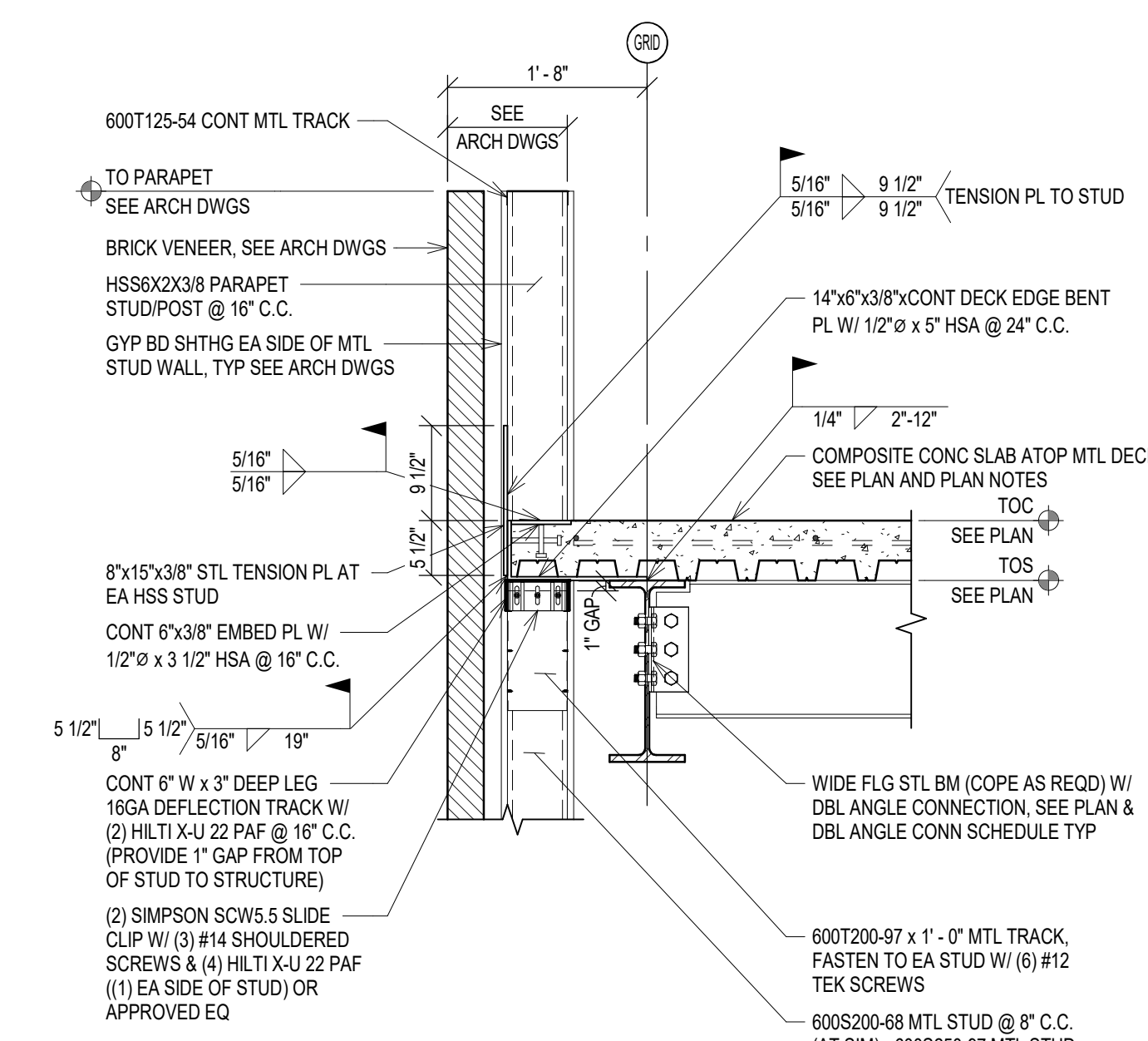


		CONSULTANTS:				ARCHITECT																																																																																																																																																																																									
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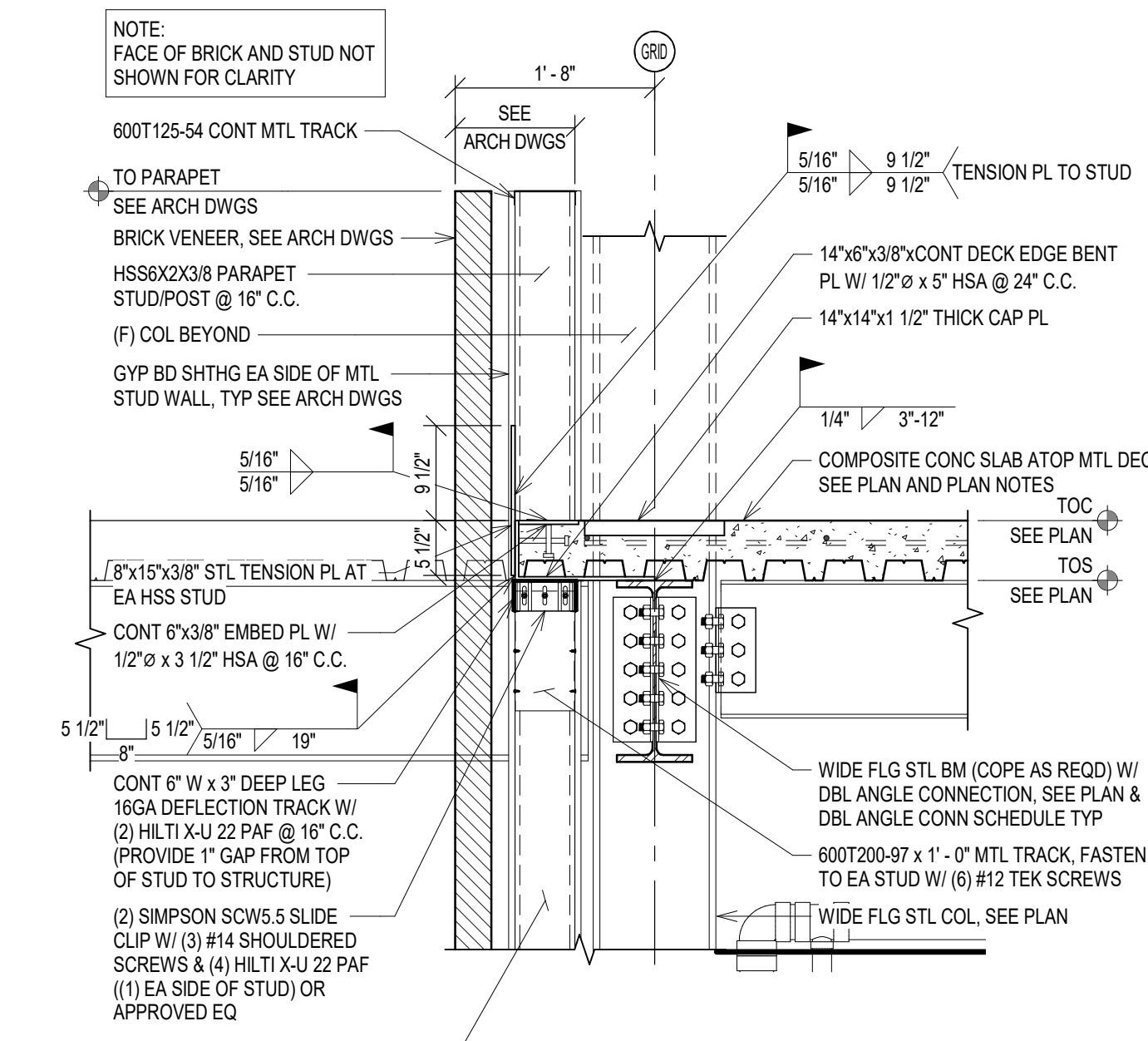
 Department of
Veterans Affairs



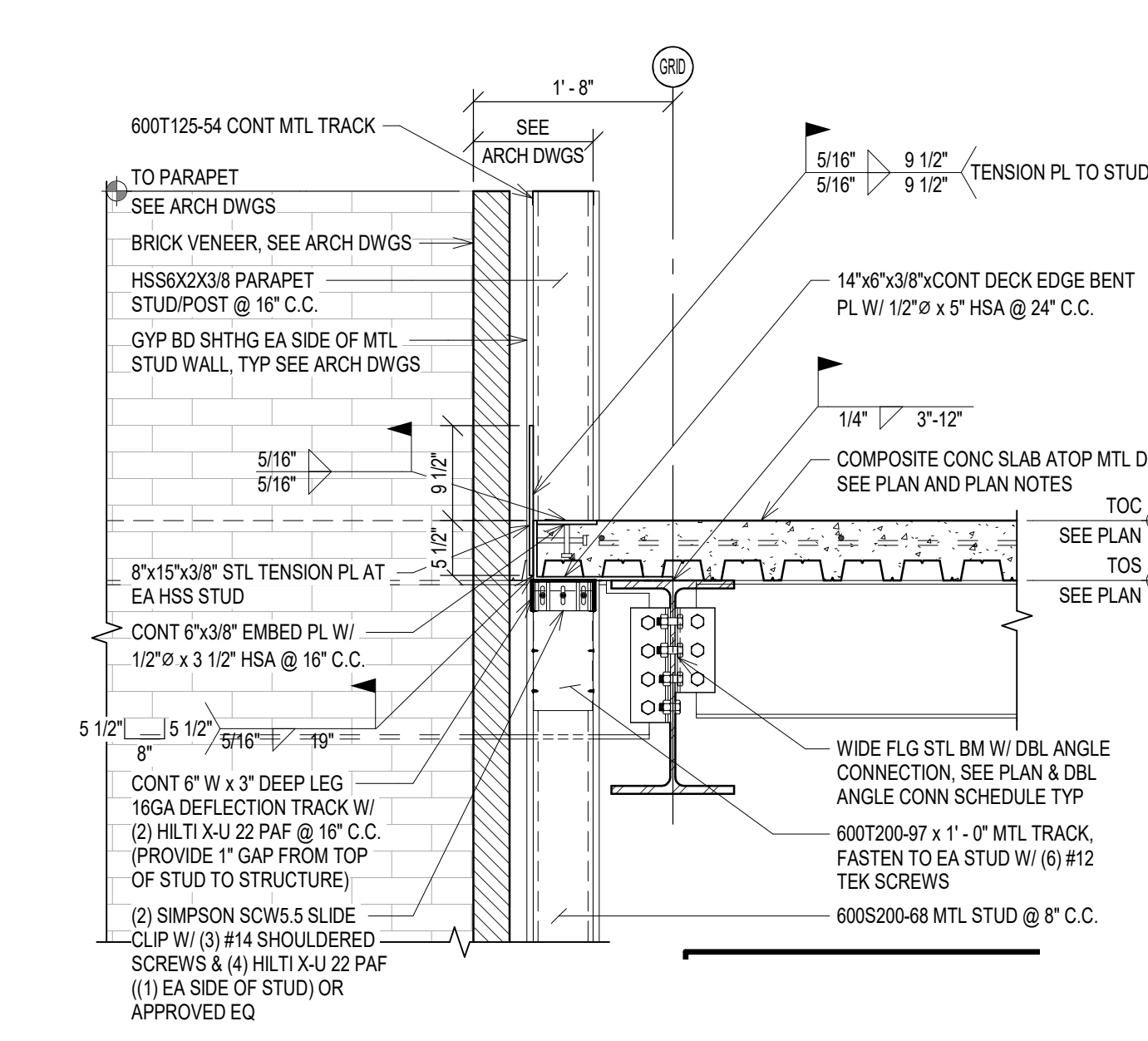
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REFERENCED FROM: F1 / S-104



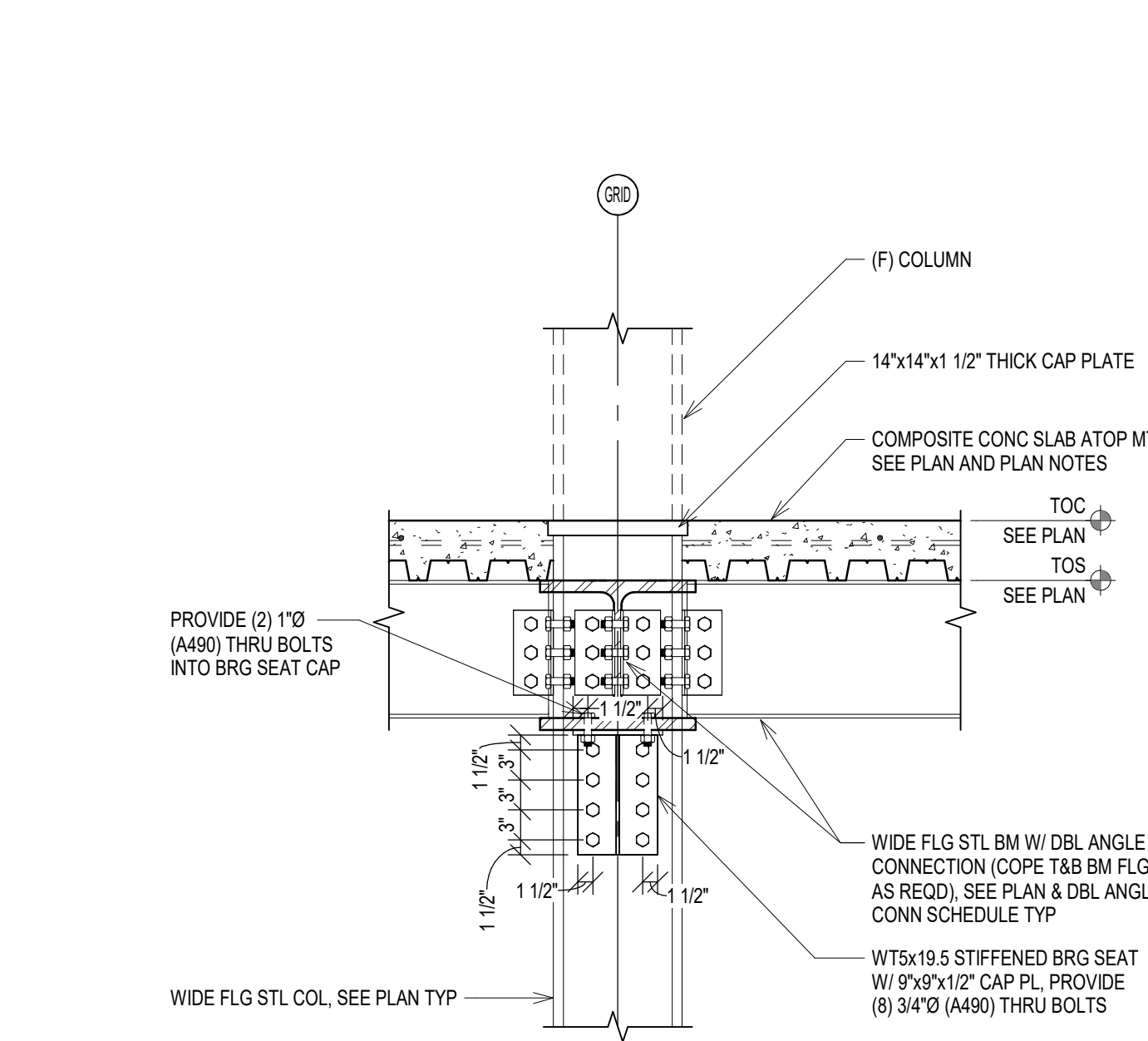
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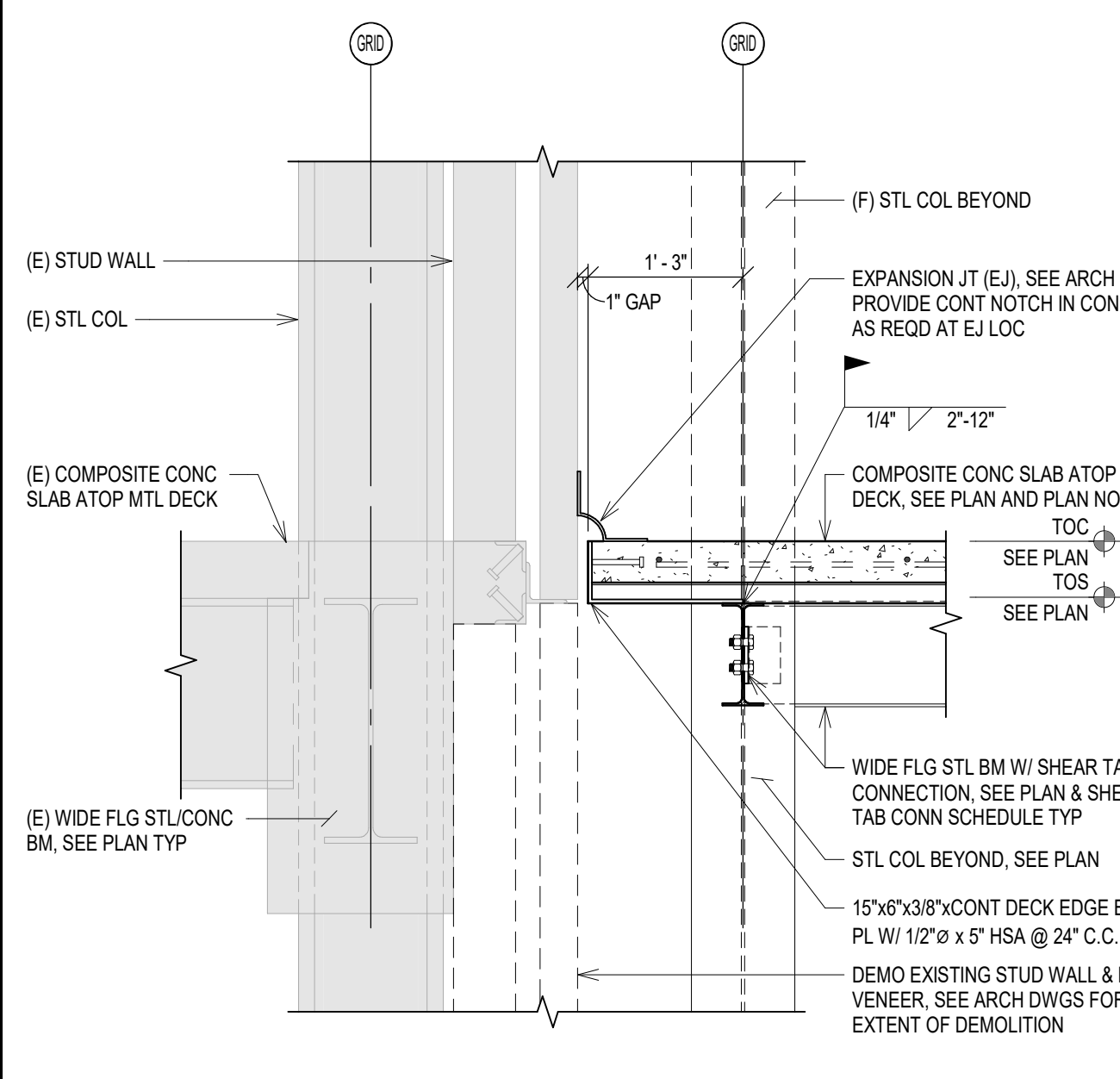
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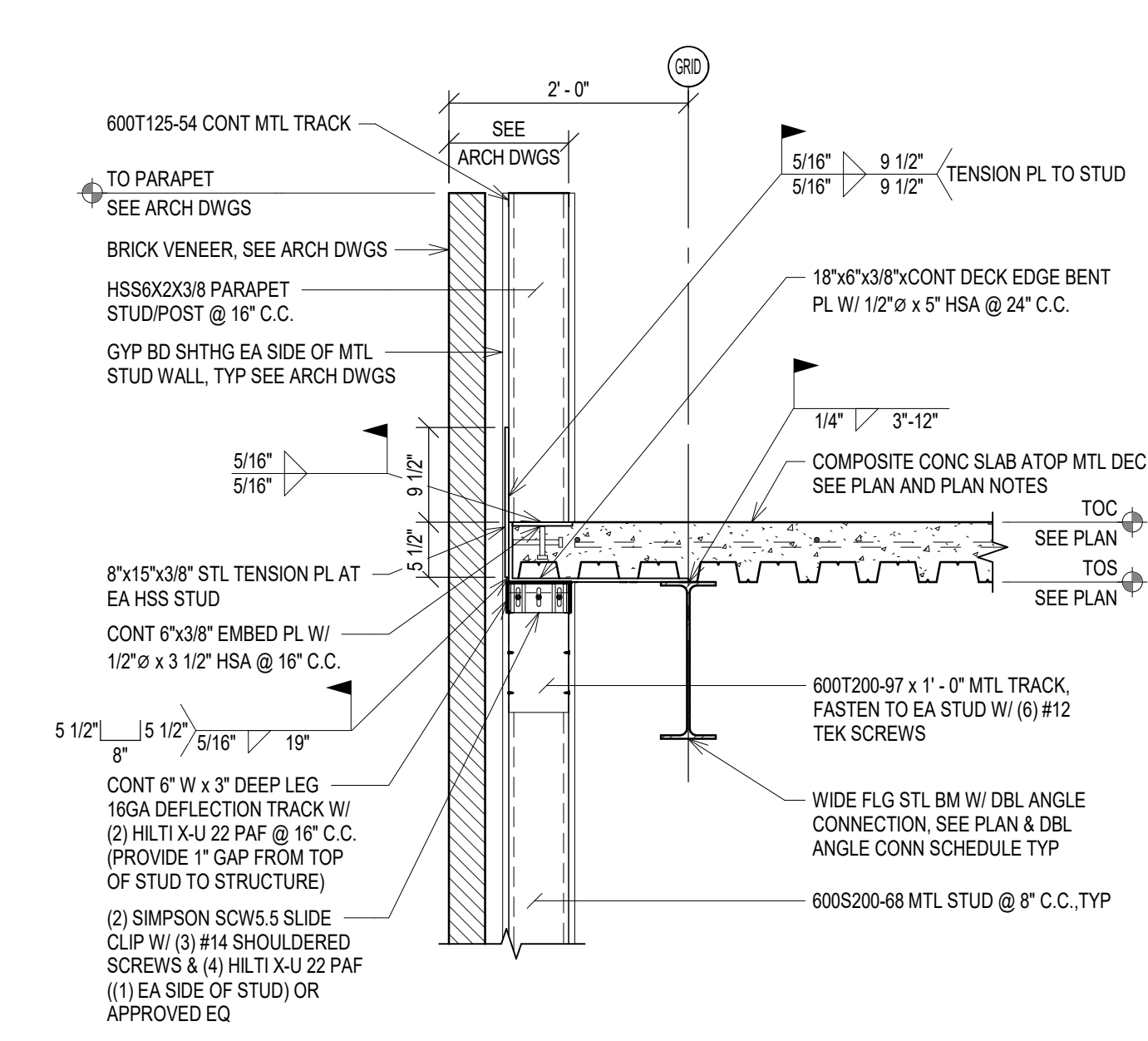
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SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



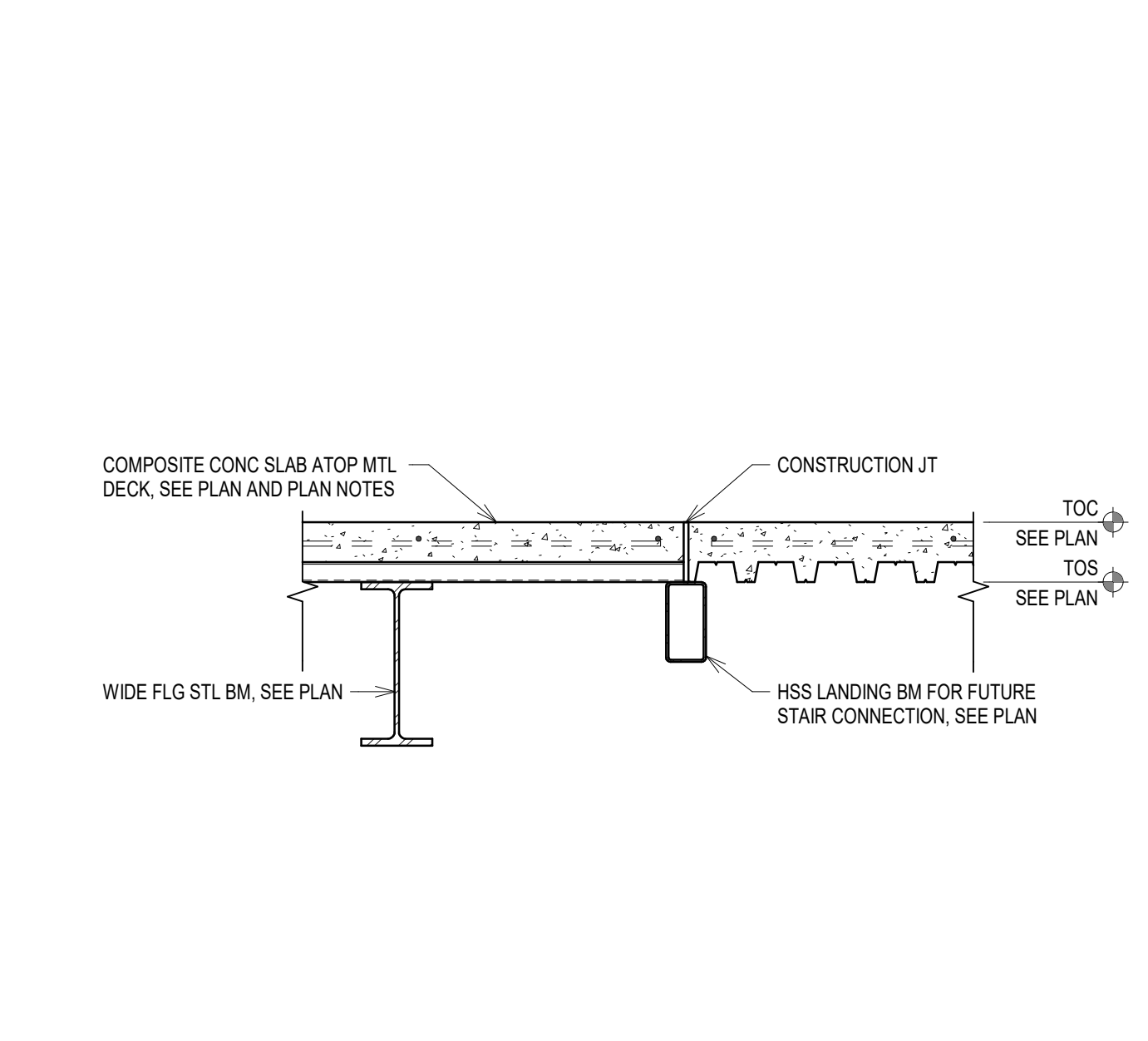
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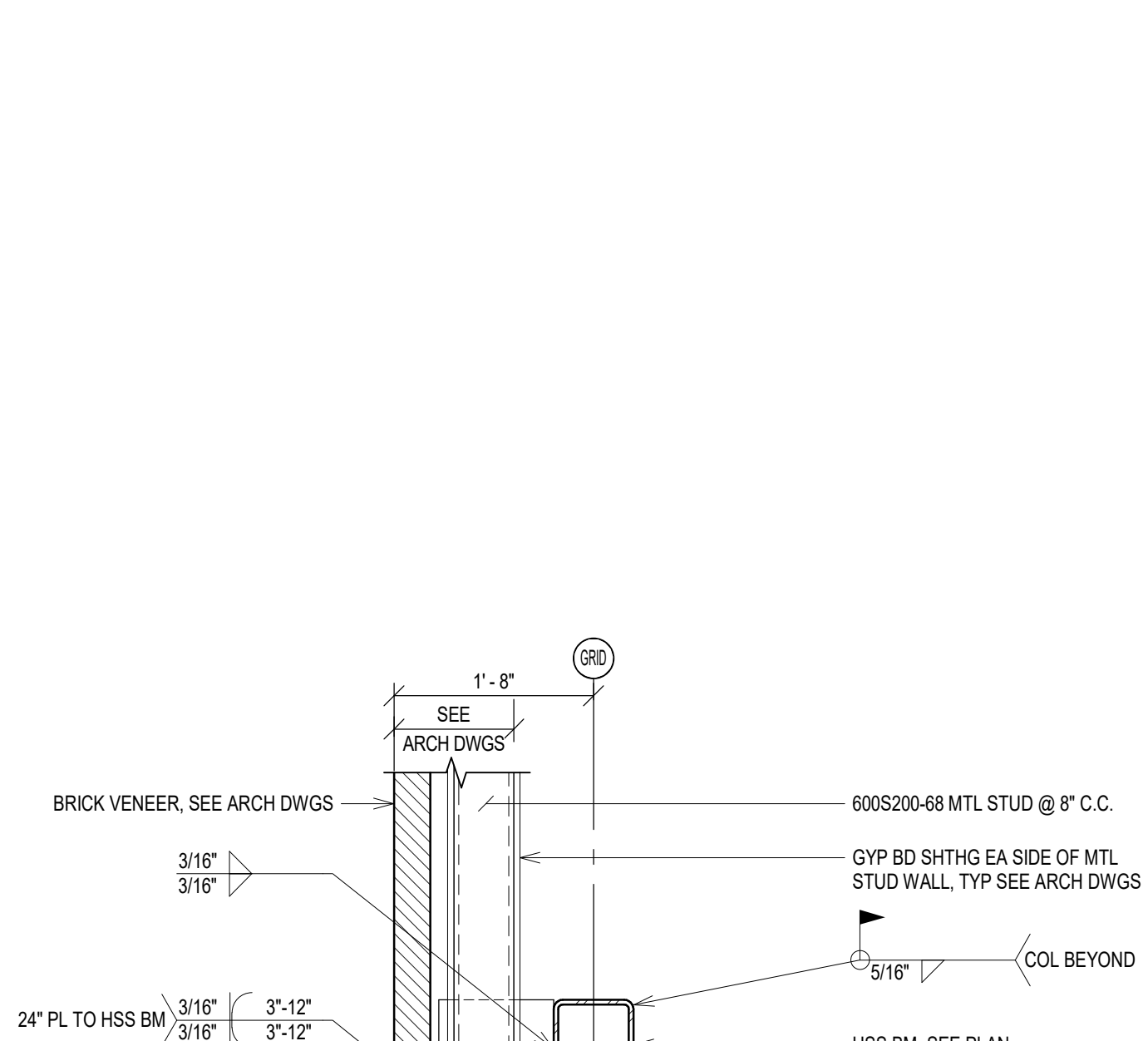
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REFERENCED FROM: F1 / S-104



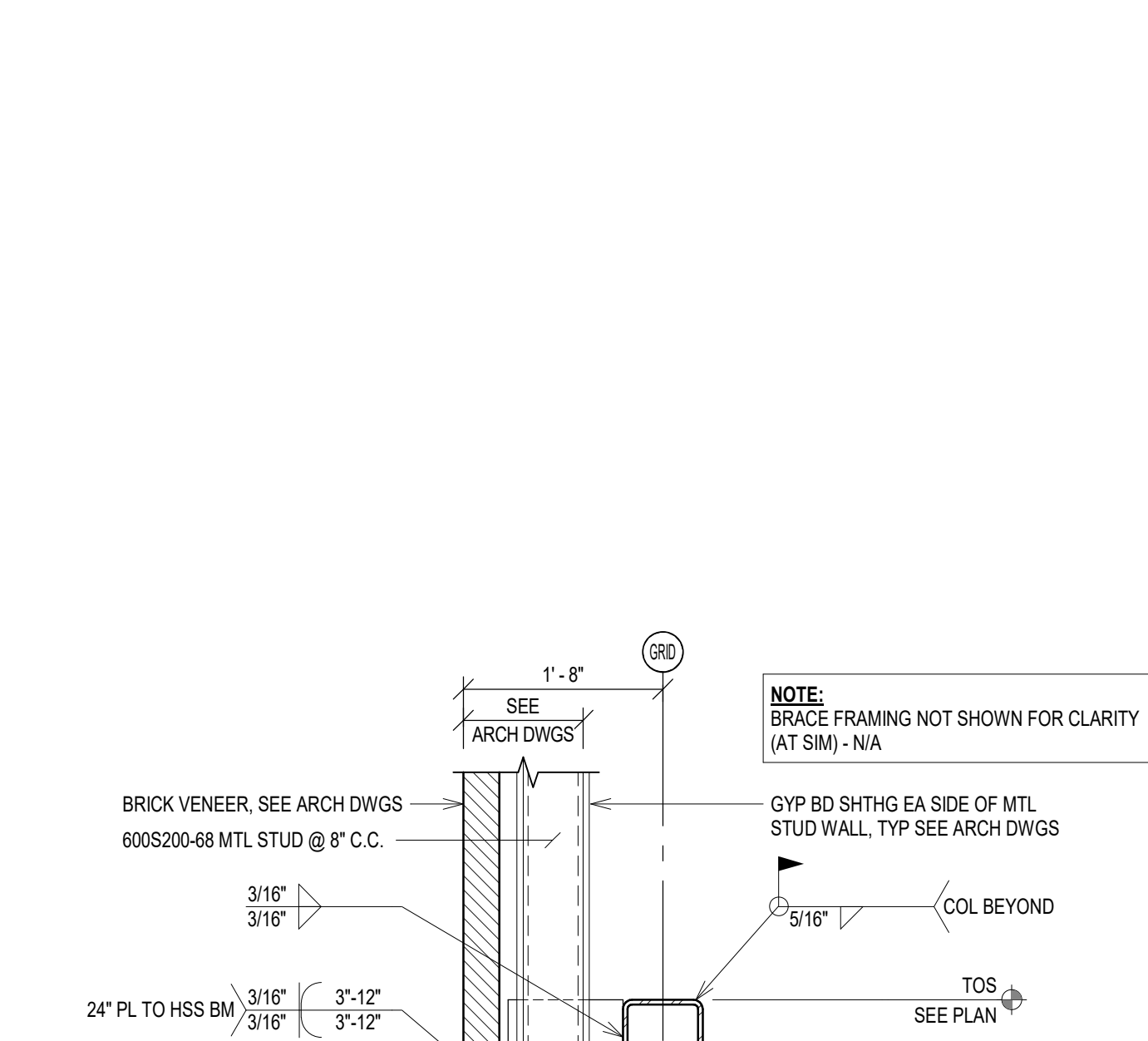
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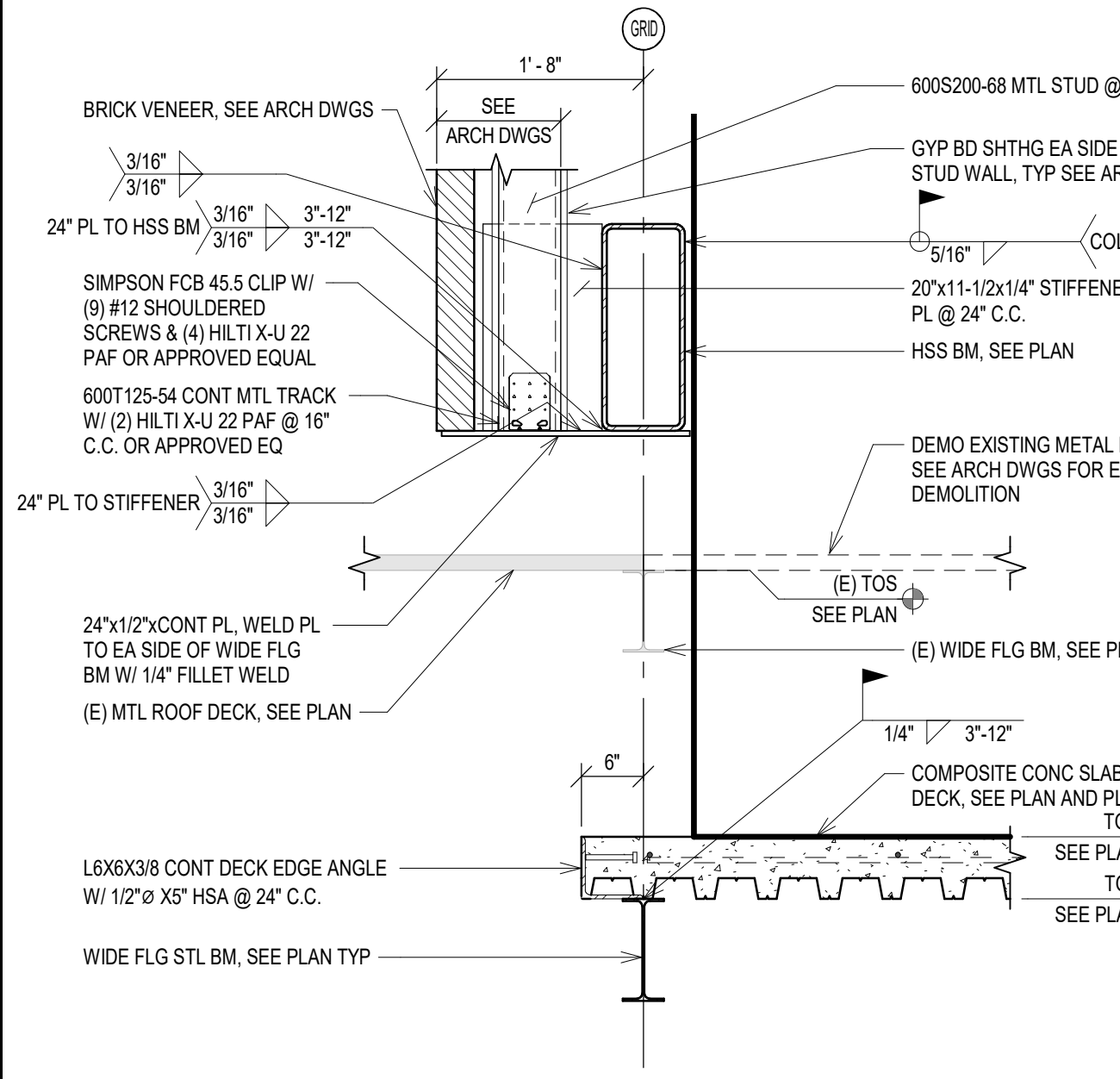
D4 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



F6 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103



F8 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103



F1 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103

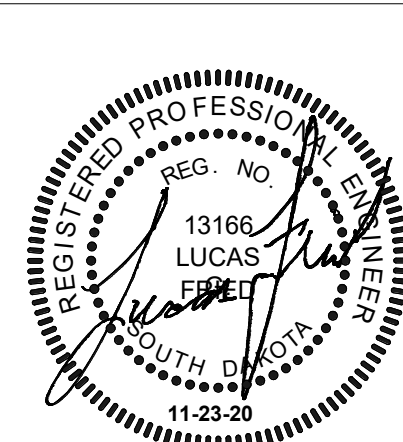
CONSULTANTS:

TERRASITE DESIGN
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PH: (605) 791-1736

Albertson Engineering Inc.

ALBERTSON ENGINEERING, INC.
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FARRIS ENGINEERING
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Drawing Title

DETAILS

Approved: Project Director
Omaha VA Medical Center

16.2330.A08

Project Title

Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location **4101 Woolworth Ave #4199 Omaha, NE 68105**

Date **11/23/2020** Checked **LGF** Drawn **MDR**

Project Number

16.2330.A08

Building Number **25**

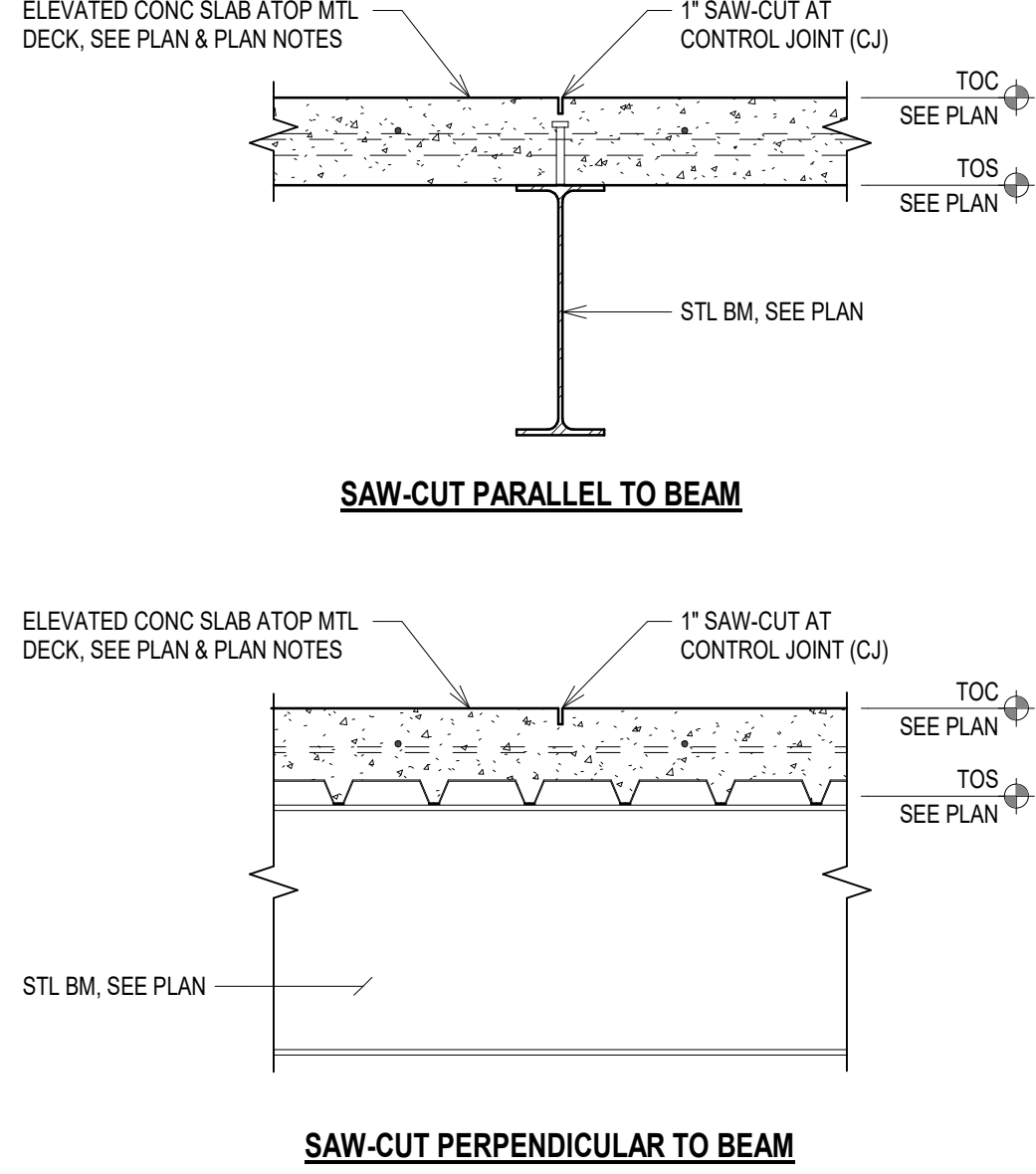
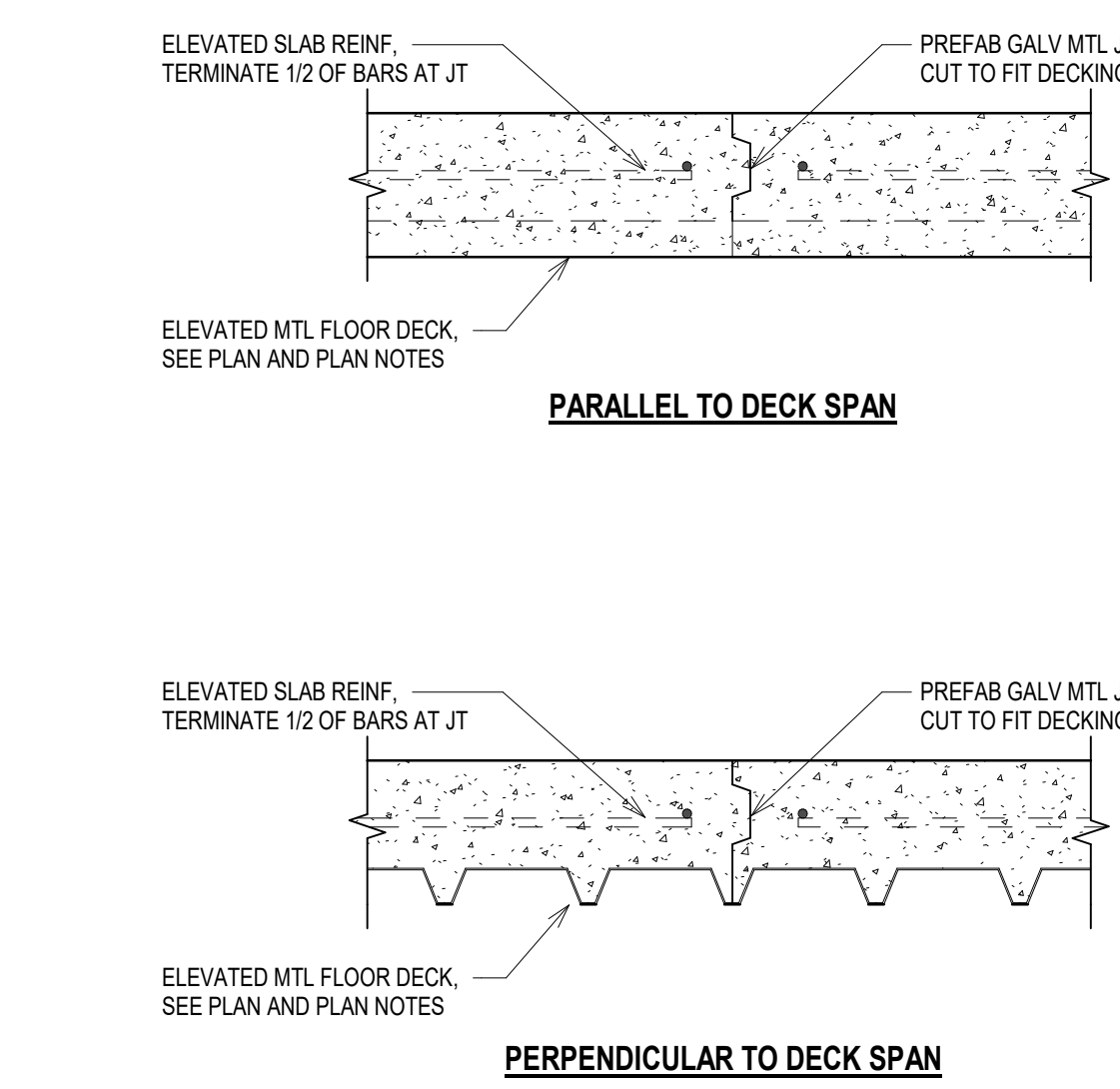
Drawing Number **S-503**

Dwg. 75 of 143

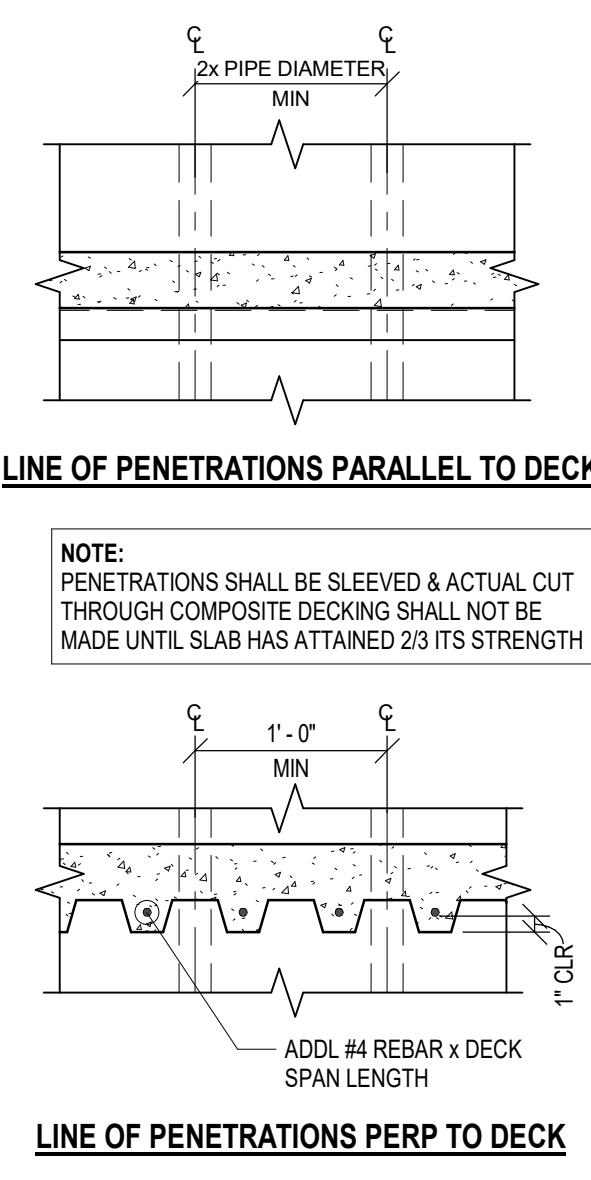
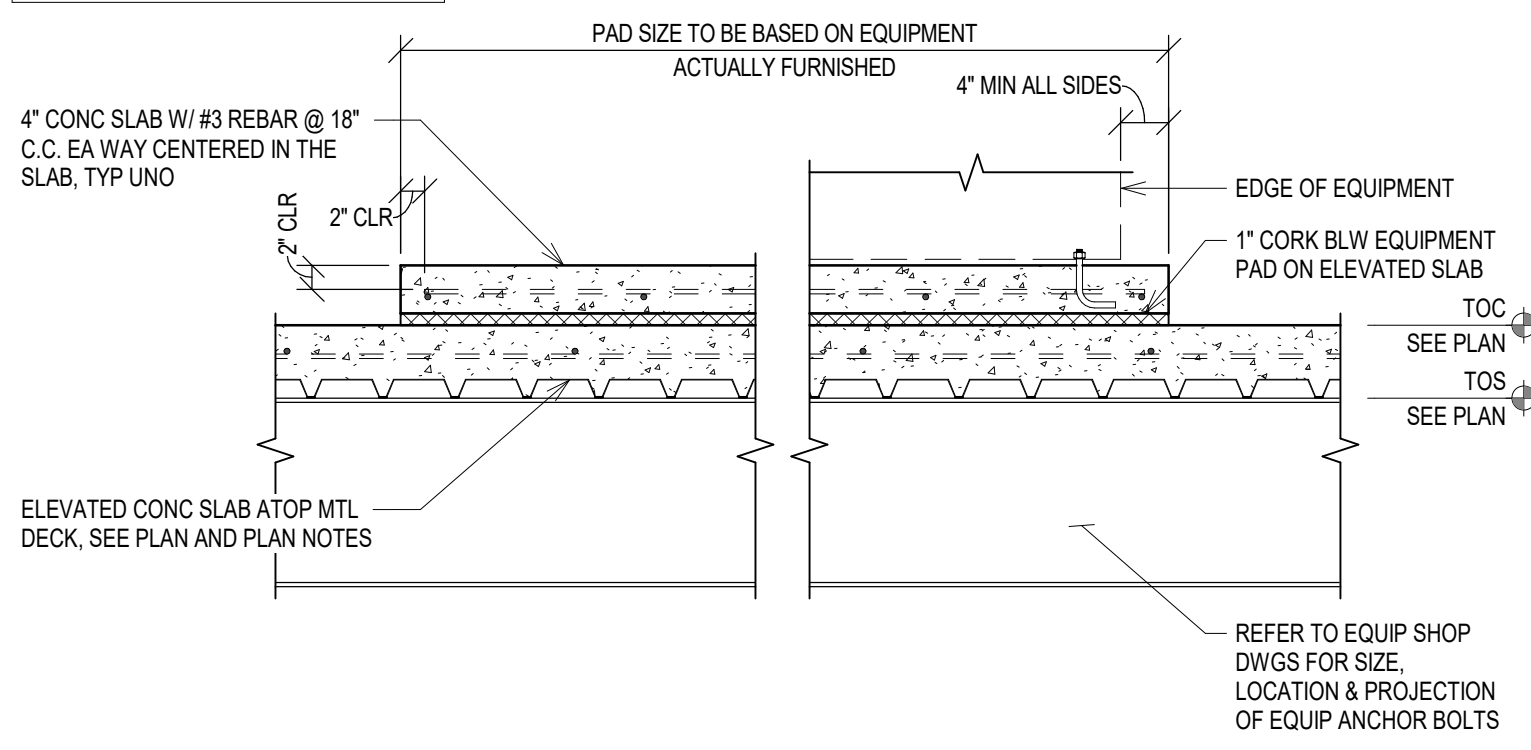
Office of Construction and Facilities Management

Department of Veterans Affairs

CONSTRUCTION DOCUMENTS



NOTE:
1. SEE MECH & ELEC DWGS FOR LOCATION OF PADS
2. OBTAIN APPROVAL OF ENGINEER PRIOR TO PLACING PADS THICKER THAN 4" ON ELEVATED SLABS



TYP ELEV SLAB KEYED CONSTRUCTION JT

TYP ELEV SLAB SAW-CUT

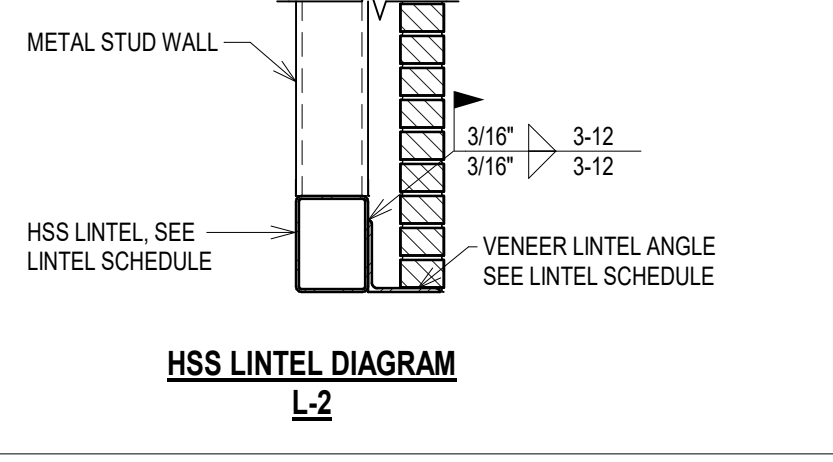
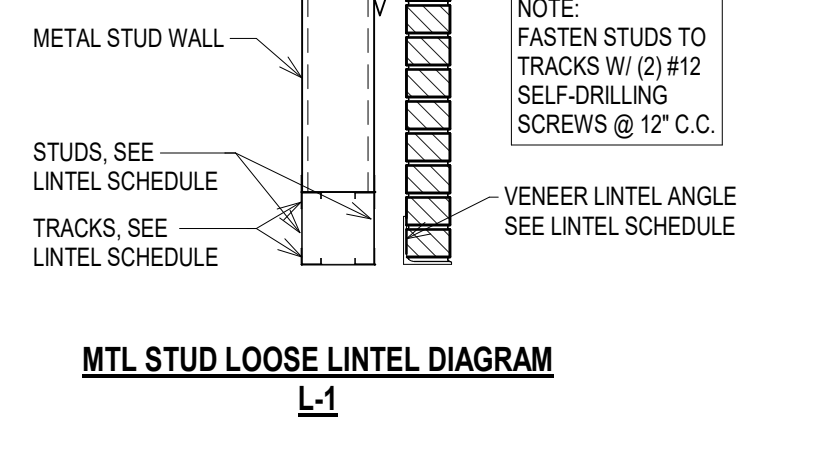
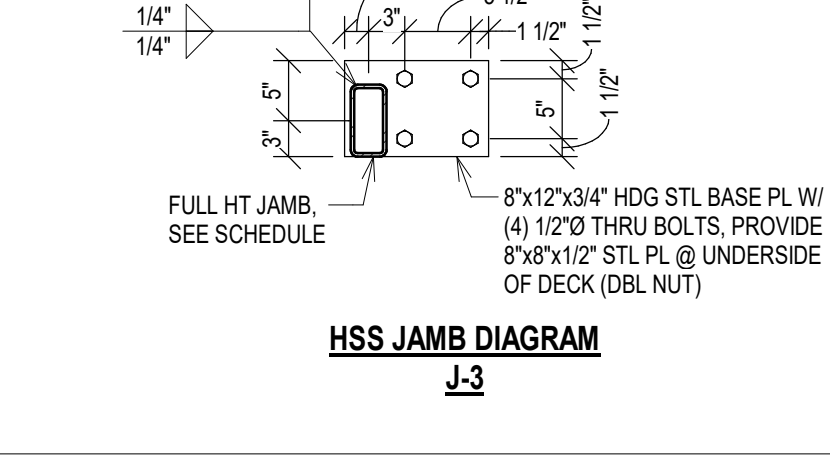
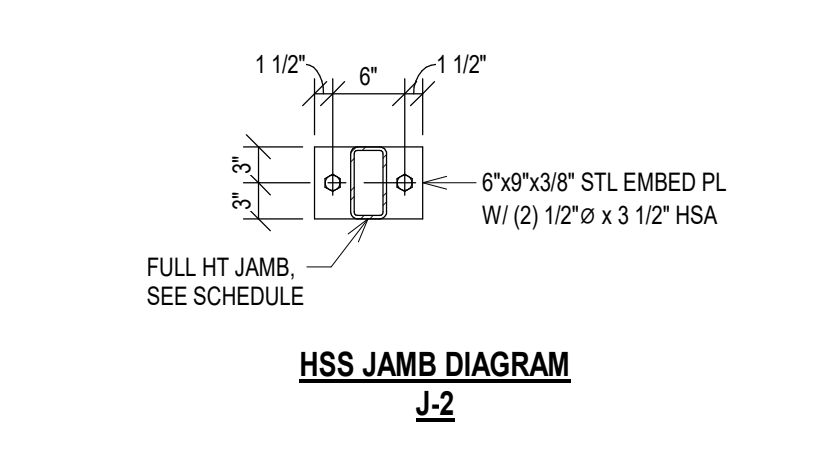
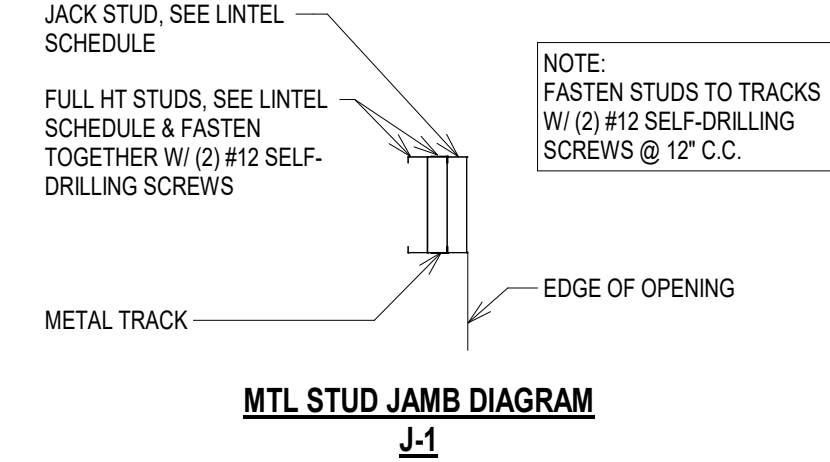
TYP EQUIP PAD - INTERIOR

TYP WIDE FLG COL ATOP WIDE FLG BEAM

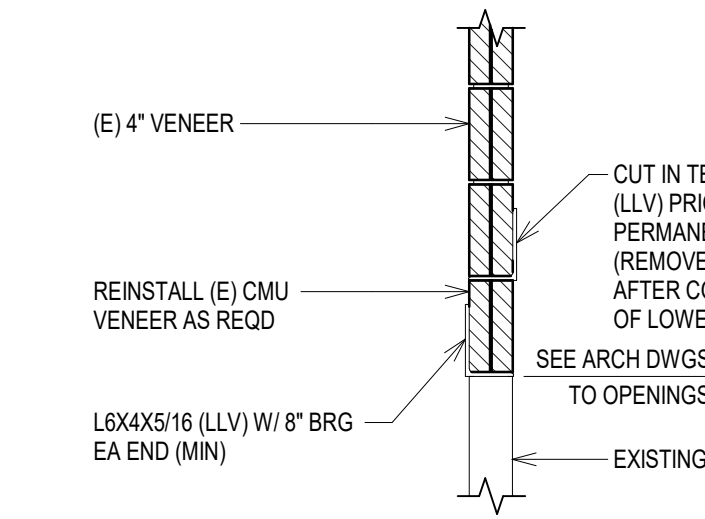
TYP ELEVATED DECK PENETRATION

LINTEL SCHEDULE						
MARK	HORIZONTAL LINTEL BOTTOM OF OPENING		HORIZONTAL LINTEL TOP OF OPENING		VERTICAL MEMBERS EACH SIDE OF OPENING	REMARKS
	STUDS	TRACKS	STUDS	TRACKS	JACK FULL HEIGHT	
L1	(2) 600S162-68	(2) 600T125-54	(2) 600S162-68	(2) 600S125-54	(1) 600S162-68 (3) 600S200-68	GALV 6"x4"x5/16" BENT PL. SEE LINTEL SECTION L-1 SEE JAMB SECTION J-1
L2	(2) 600S162-68	(2) 600T125-54	(2) 600S162-68	(2) 600S125-54	(1) 600S162-68 (4) 600S200-68	GALV 6"x4"x7/16" BENT PL. SEE LINTEL SECTION L-1 SEE JAMB SECTION J-1
L3	HSS6X6X5/16	N/A	HSS8X6X5/16	N/A	N/A	SEE LINTEL SECTION L-2 SEE JAMB SECTION J-2 SEE NOTES 4.5 & 6
L4	HSS6X6X5/16	N/A	HSS10X6X5/16	N/A	N/A	SEE LINTEL SECTION L-2 SEE JAMB SECTION J-2 SEE NOTES 4.5 & 6
L5	N/A	N/A	HSS10X6X5/16	N/A	N/A	SEE LINTEL SECTION L-2 SEE JAMB SECTION J-3 SEE NOTES 4.5 & 6
L6	N/A	N/A	N/A	N/A	N/A	SEE LINTEL SECTION L-3 AND SECTION NOTES

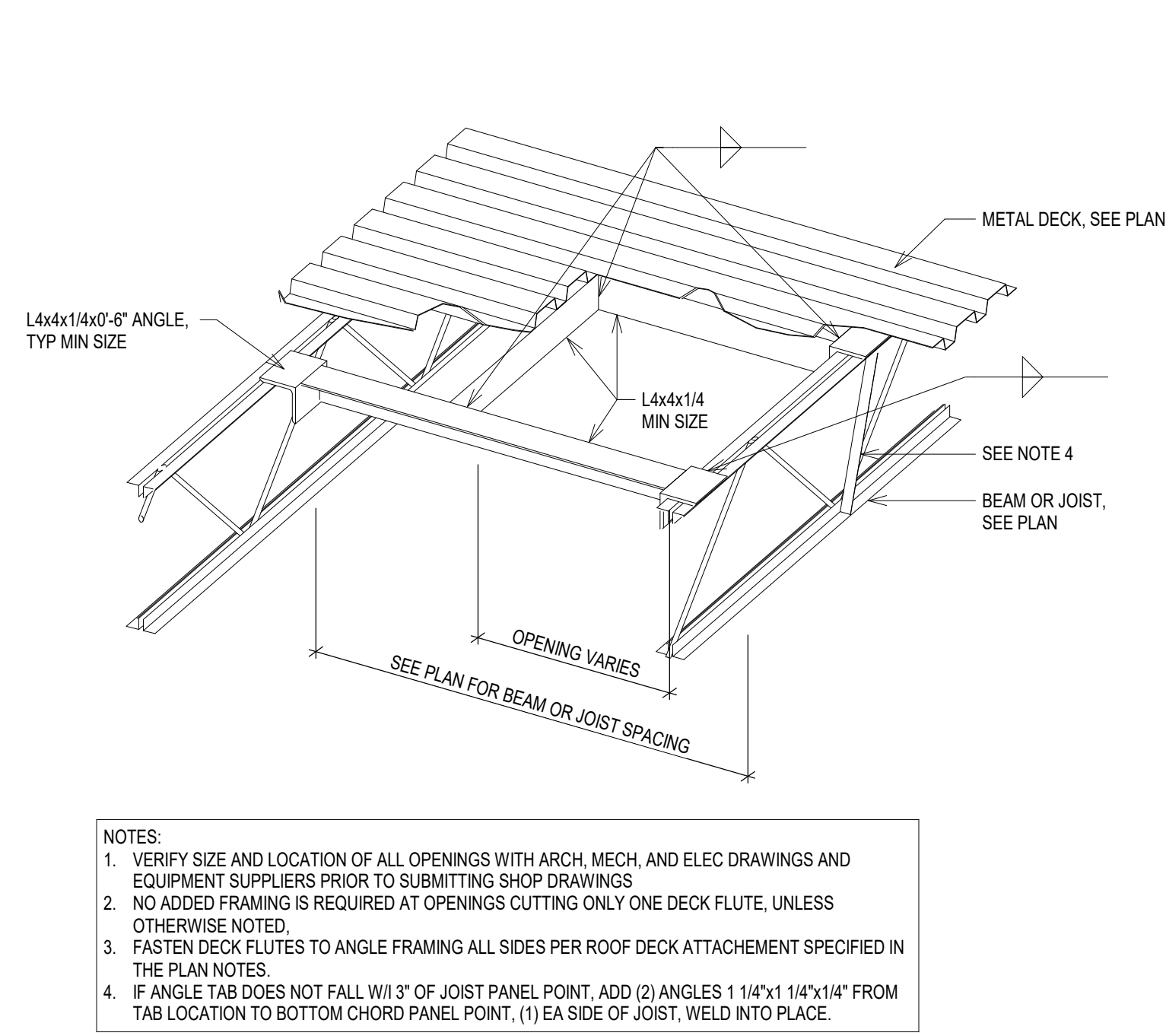
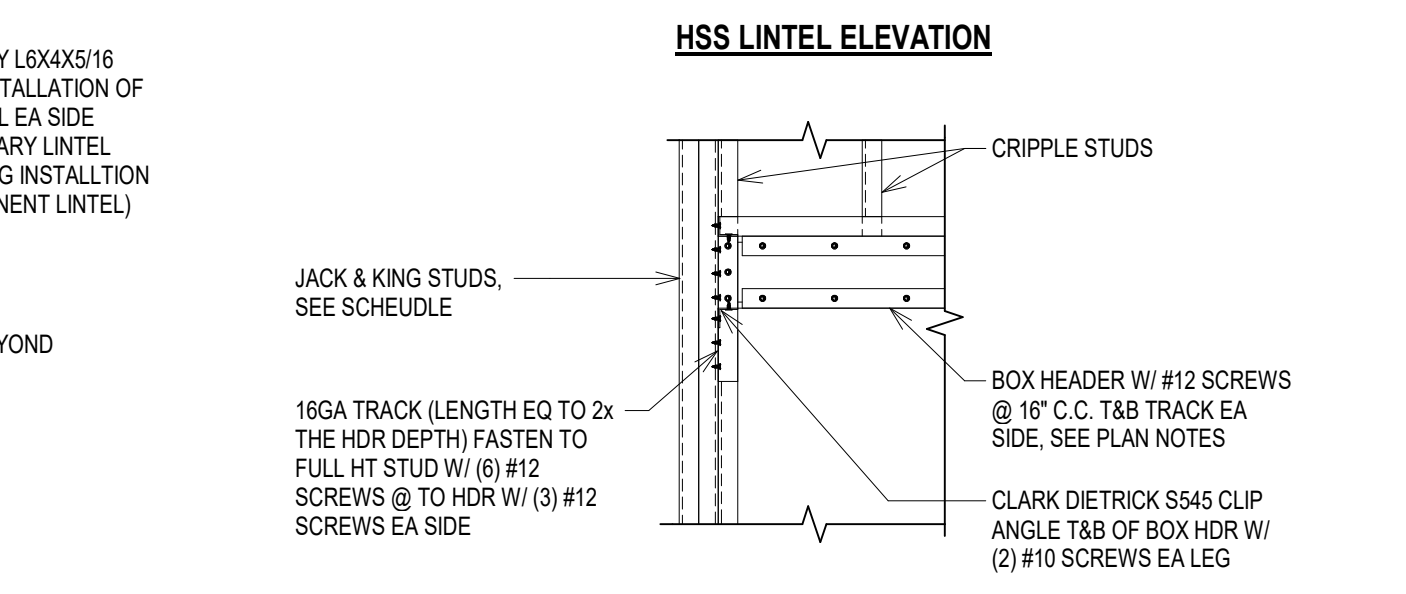
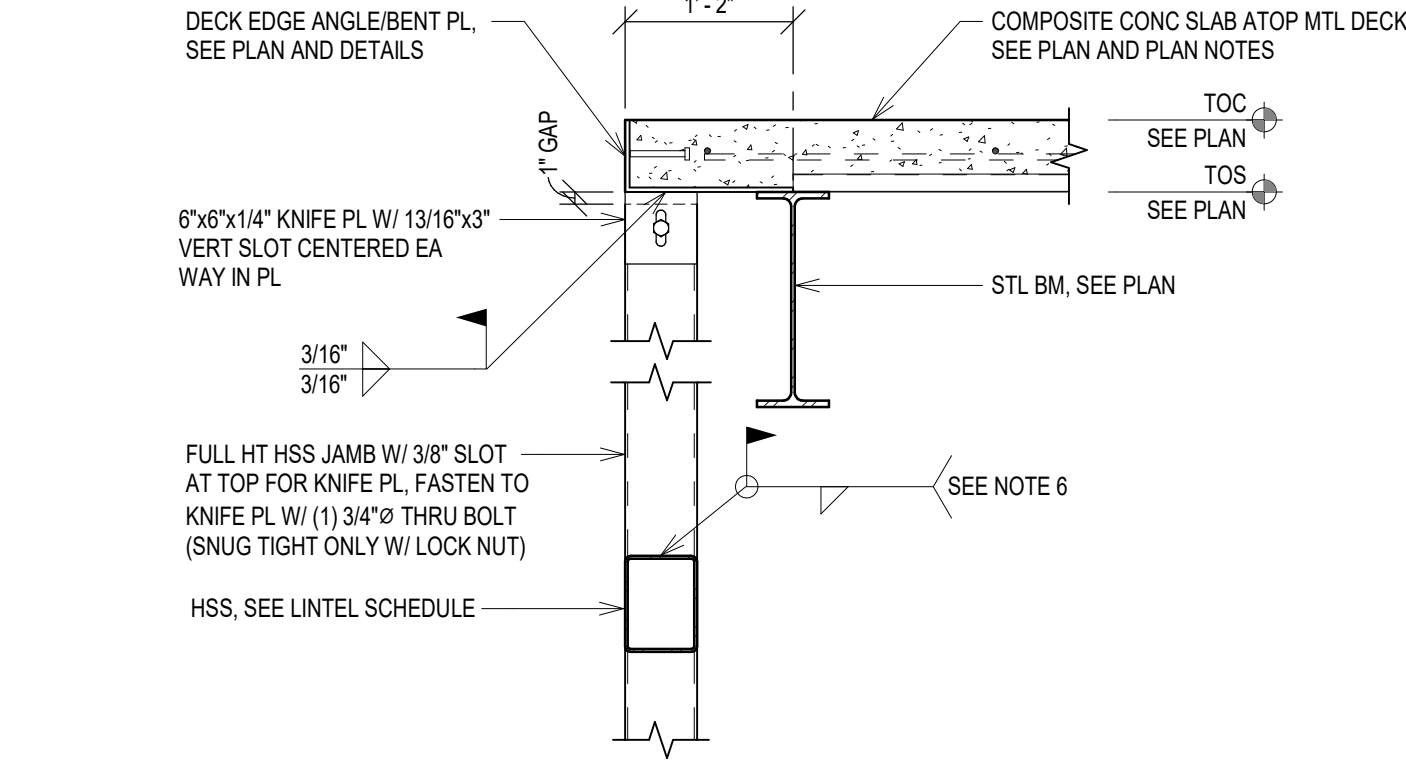
ADDITIONAL REMARKS:
1. PROVIDE UNPUNCHED MATERIAL FOR LINTEL BEAMS.
2. SEE LINTEL ELEVATION FOR LINTEL TO STUD CONNECTION.
3. BRICK LINTEL ANGLES SHALL BEAR 6" ON EA SIDE OF OPENING.
4. WELD BOTTOM OF JAMB COLUMN TO STEEL EMBED PLATE WITH 1/4" FILLET WELD EACH SIDE. SEE ALSO EMBED PLATE DIAGRAM J-2.
5. ATTACH TOP OF JAMB COLUMN TO KNIFE PLATE WITH (1) 3/4" THRU BOLT.
6. WELD LINTEL TUBE TO JAMB COLUMN WITH 1/4" FILLET WELD ALL AROUND.
7. EACH FULL HEIGHT JAMB MTL STUD SHALL BE ATTACHED AT THE BOT WITH SIMPSON FC645 S CLIPS WITH (6) #12-14 SELF-DRILLING SCREWS (S) & AT THE TOP WITH SIMPSON SCW5.5 CLIPS WITH (3) #14 SHOULDERED SCREWS INTO STUDS & (4) #12-14 SELF-DRILLING SCREWS (H) INTO PAF INTO SUPPORT OR APPROVED EQ.



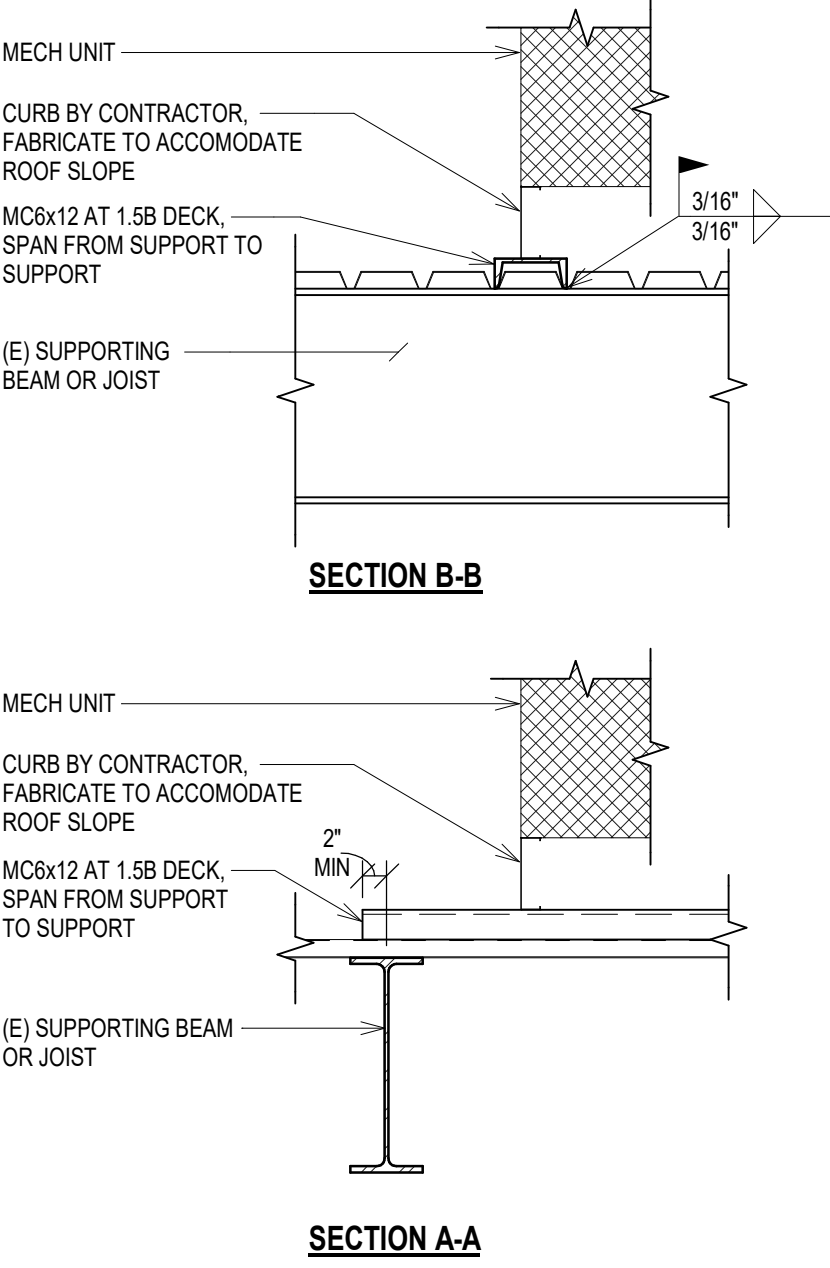
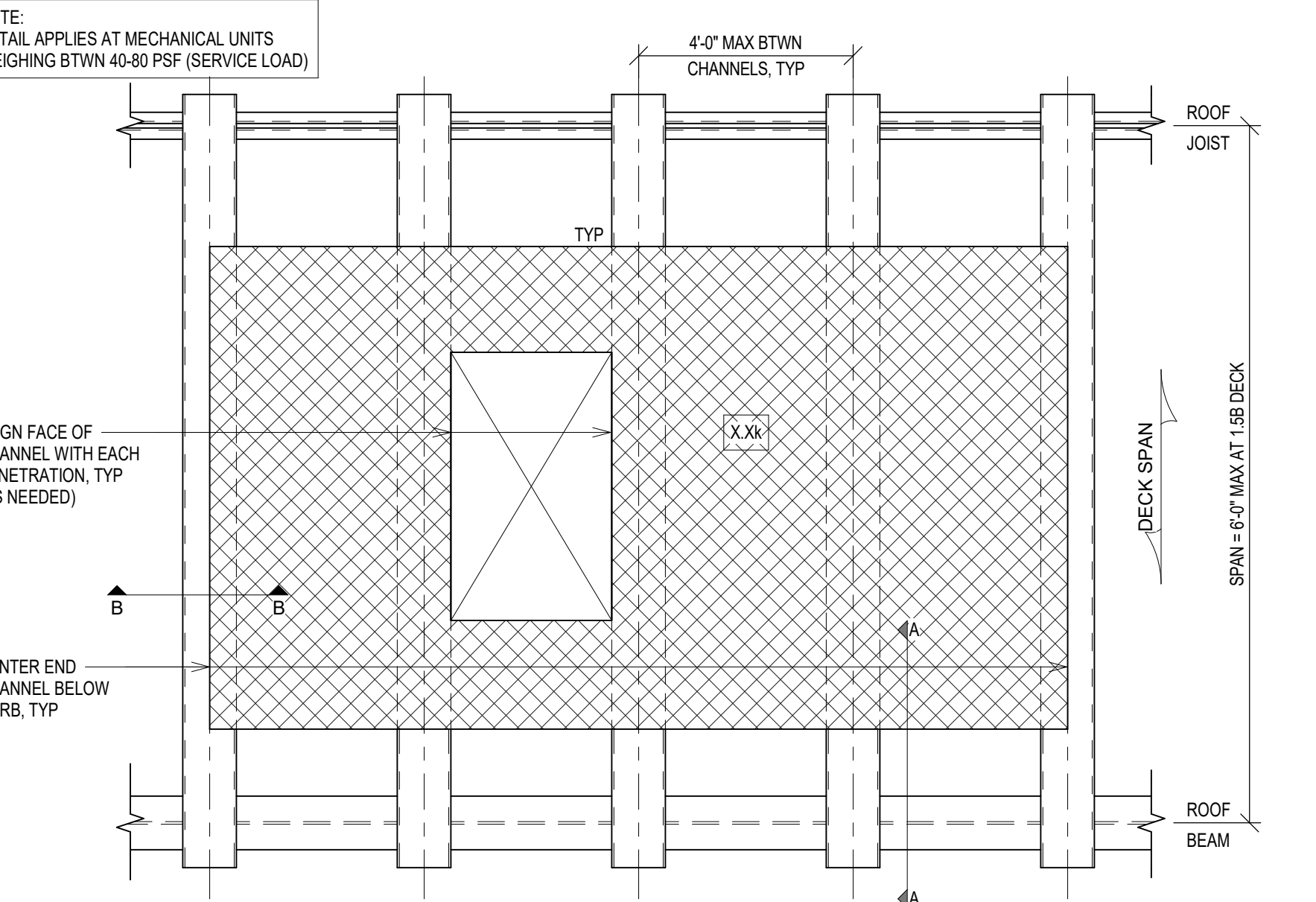
NOTES:
1. GC SHALL BE RESPONSIBLE FOR PROVIDING ALL ITEMS REQD FOR INSTALLATION OF ITEMS SHOWN, INCLUDING, BUT NOT LIMITED TO SHORING FOR INSTALLATION OF NEW STL LINTEL
2. OPENING SHALL NOT EXCEED 6'-0"



CONSTRUCTION SEQUENCE:
• INSTALL TEMPORARY ANGLE
• DEMO (E) WALL & VENEER BLW OPNG
• INSTALL NEW STL ANGLE LINTEL
• REINSTALL VENEER FOR SOLID BRG & GROUT AS REQD
• REMOVE TEMPORARY ANGLE & FINISH AS REQD



SCHEDULE - LINTEL

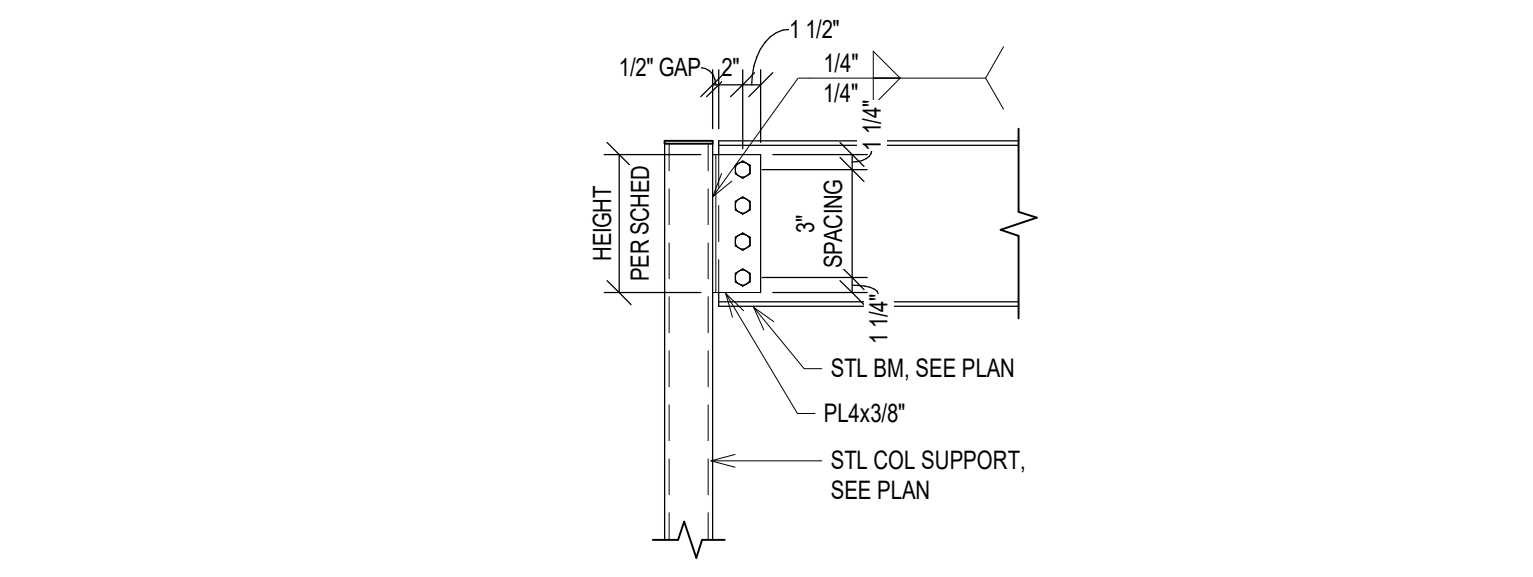


TYP AT ROOF TOP UNITS ON (E) ICU ADDITION (BTWN GRIDS 7 & 8)

DOUBLE ANGLE CONNECTION SCHEDULE				
BEAM	3/4\"/>	CONNECTION ANGLES	ALTERNATE WELD TO BM	
		LENGTH	THICKNESS	SIZE (SHOP WELD ONLY)
W10	2	5 1/2"	5/16"	1/4" FILLET
W12 & 14"	3	8 1/2"	5/16"	1/4" FILLET
W16	4	11 1/2"	5/16"	1/4" FILLET
W18	5	14 1/2"	3/8"	5/16" FILLET
W21	6	17 1/2"	3/8"	5/16" FILLET
W24	7	20 1/2"	3/8"	5/16" FILLET
W27	8	23 1/2"	3/8"	5/16" FILLET
W30	9	26 1/2"	3/8"	5/16" FILLET

ADDITIONAL REMARKS:
1. USE E70XX ELECTRODES.
2. SIZE & NUMBER OF BOLTS INTO SUPPORTING MEMBER TO BE TWICE THE NUMBER OF BOLTS INTO THE BEAM & OF THE SAME SIZE.
3. *PROVIDE ADDITIONAL W/ 5X19.5 STIFFENED BEARING SEAT (W/ ASTM A490 BOLTS) AT W14x142 AND W14x159 BEAMS. SEE SECTION B6S-403 AND SECTION B6S-503 FOR ADDITIONAL CONNECTION DETAILS FOR W14x142 AND W14x159, RESPECTIVELY.

TYP OPENING IN METAL DECK



SHEAR TAB CONNECTION SCHEDULE				
BEAM	HEIGHT	THICKNESS	3/4\"/>	WELD SIZE TO COL
W10	5 1/2"	3/8"	2	5/16" FILLET
W12 & 14	8 1/2"	3/8"	3	5/16" FILLET
W16	11 1/2"	3/8"	4	5/16" FILLET
W18	14 1/2"	3/8"	5	5/16" FILLET
W21	17 1/2"	3/8"	6	5/16" FILLET
W24	20 1/2"	3/8"	7	3/8" FILLET
W27	23 1/2"	3/8"	8	3/8" FILLET
W30	26 1/2"	3/8"	9	3/8" FILLET

SCHEDULE - DBL ANGLE CONNECTION

SCHEDULE - SHEAR TAB CONNECTION

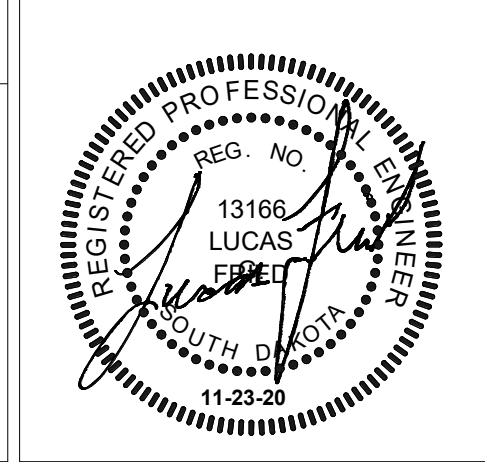
COMPLIANCE REVIEW INCLUDED	2/23/2024
Revisions:	Date

CONSULTANTS:

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WWW.FOURFRONTDESIGN.COM

Drawing Title

STANDARD DETAILS / SCHEDULE

Approved: Project Director

Omaha VA Medical Center

16.2330.A08

Project Title

Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location 4101 Woolworth Ave #4199 Omaha, NE 68105

Date 11/23/2020

Checked LGF

Drawn MDR

Project Number 16.2330.A08

Building Number 25

Drawing Number S-601

Dwg. 76 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

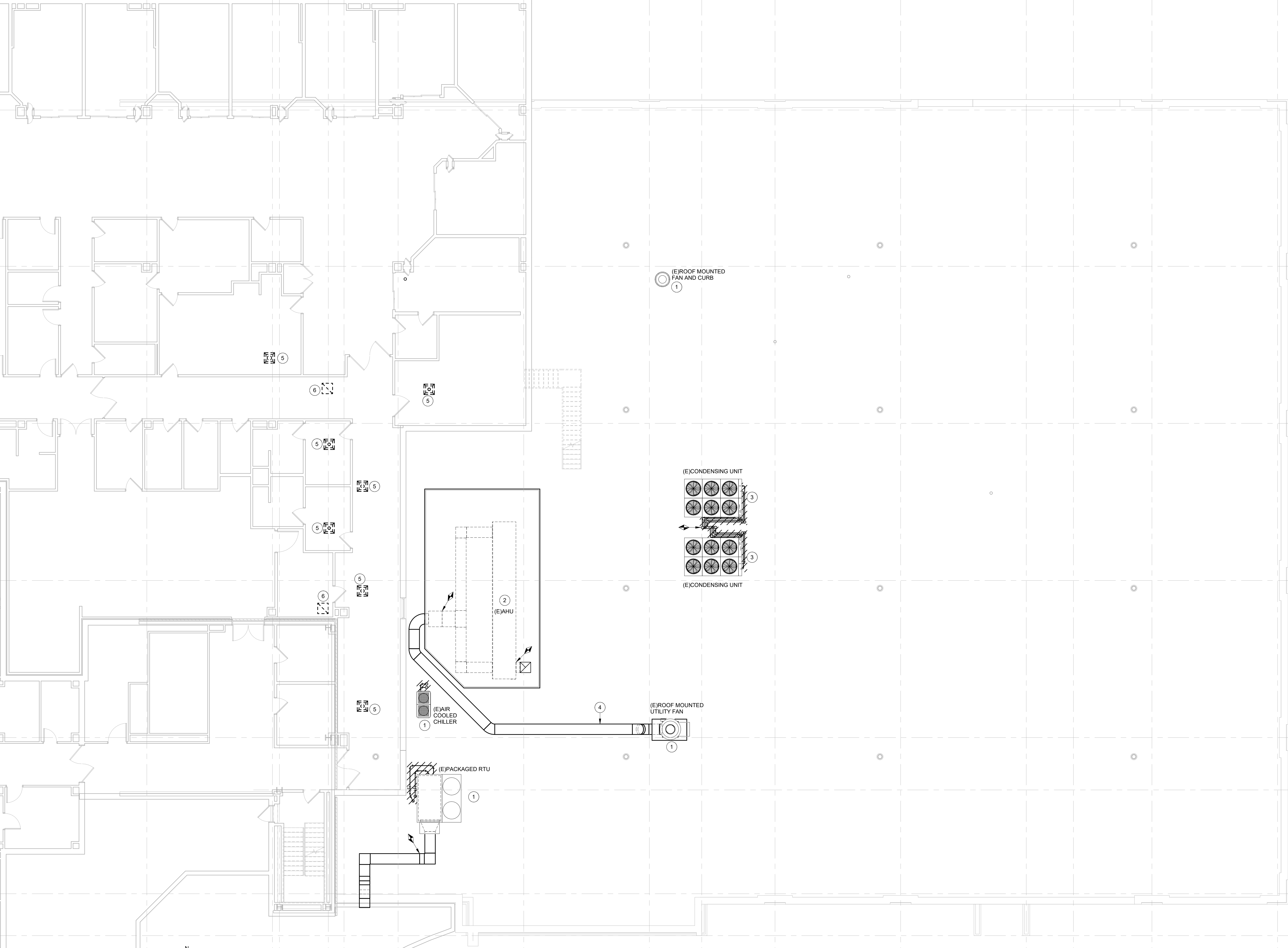
- SPECIFIC NOTES:**
- 1 REMOVE AND SALVAGE UNIT FOR REINSTALLATION.
 - 2 EXISTING AIR HANDLING ENCLOSED IN PENTHOUSE ENCLOSURE. AIR HANDLING UNIT TO REMAIN. PENTHOUSE ENCLOSURE TO BE REMOVED AND DISPOSED.
 - 3 EXISTING CONDENSING UNITS TO BE EVACUATED, DISCONNECTED, REMOVED, AND DISPOSED. EXISTING CONDENSING UNITS CANNOT BE DECOMMISSIONED BEFORE NEW CONDENSING UNITS ARE INSTALLED AT NEW LOCATION. COORDINATE PHASING OF INSTALLATION AND DECOMMISSIONING OF EACH UNIT WITH VA AND GC FOR ZERO DOWN TIME.
 - 4 REMOVE AND DISPOSE OF EXISTING DUCTING.
 - 5 REMOVE EXISTING CEILING SUPPLY DIFFUSER DURING CEILING DEMOLITION. STORE IN A SAFE PLACE AND RE-INSTALL INTO NEW CEILING ONCE NEW CEILING GRID IS INSTALLED.
 - 6 REMOVE EXISTING CEILING RETURN GRILLE DURING CEILING DEMOLITION. STORE IN A SAFE PLACE AND RE-INSTALL INTO NEW CEILING ONCE NEW CEILING GRID IS INSTALLED.

GENERAL NOTES:

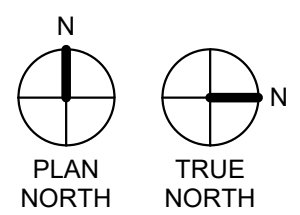
ALL EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED AND REPLACED/REUSED. CONTRACTOR TO USE CARE DURING DEMOLITION TO PRESERVE PARTS REQUIRED FOR REUSE, AND PROPERLY DISPOSE OF COMPONENTS, INCLUDING REFRIGERANT.

ENGINEER RECOMMENDS THAT CONTRACTOR TO TAKE OIL SAMPLE OF EXISTING DATA ROOM AC UNITS SHOWN. PROVIDE OIL/REFRIGERANT SAMPLE TO OUTSIDE LAB TO TEST OIL FOR MOISTURE, ACIDITY, OIL TYPE, REFRIGERANT TYPE, AND IRON CONTENT AS A MINIMUM. CONTRACTOR TO COORDINATE NEW EQUIPMENT REFRIGERANT AND OIL COMPATABILITY, OR CONTRACTOR TO MAKE PROVISIONS TO SOLVENT CLEAN AND PURGE ENTIRE SYSTEM BEFORE CONNECTING NEW CONDENSING UNIT AND PLACING INTO OPERATION. NEW REFRIGERANT WILL BE REQUIRED FOR THE EXISTING DATA ROOM EVAPORATOR SYSTEM WITH NEW CONDENSING UNITS.

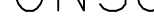
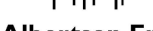
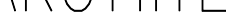
CONTRACTOR TO BE AWARE THAT EXISTING EQUIPMENT SHOWN ON THIS PLAN MAY REQUIRED TO BE REMOVED AND REINSTALLED IN PHASES, AS PER REQUIREMENTS OF SPACES SERVED FOR CONTINUED OPERATION DURING CONSTRUCTION. CONTRACTOR TO MAKE PROVISION THAT EQUIPMENT MAY NOT ALL BE REMOVED FROM OPERATION ALL AT ONCE.

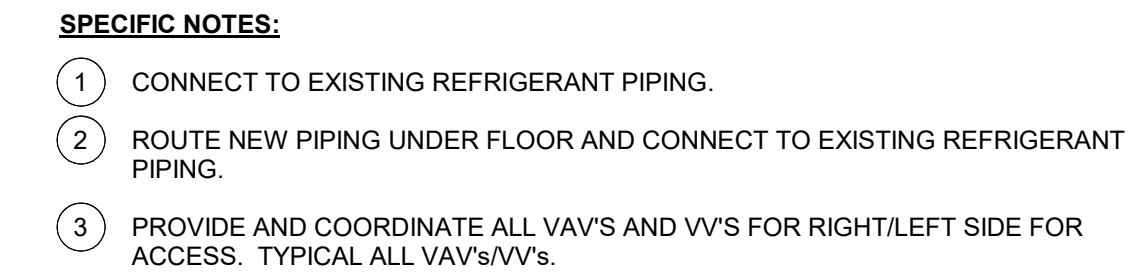


1 MECHANICAL ROOF DEMOLITION PLAN
1/8" = 1'-0"



CONSTRUCTION DOCUMENTS

		CONSULTANTS:  TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736  ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606  FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT  FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM 		Drawing Title MECHANICAL ROOF DEMOLITION PLAN		Approved: Project Director Omaha VA Medical Center		Project Title VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service		Location 4101 Woolworth Ave #4199 Omaha, Ne 68105		Date 11 / 23 / 2020		Checked RD		Drawn JB		Project Number 16.2330.A08		Building Number 25		Drawing Number M 1.01		Dwg. 78 of 143		Office of Construction and Facilities Management		Department of Veterans Affairs	
COMPLIANCE REVIEW INCLUDED		2/23/2024		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08		16.2330.A08			
Revisions:		Date																													



SPS MEDICAL EQUIPMENT LEGEND							
TAG	JSN	NAME	QTY	ROOM NO.	BASIS OF DESIGN UTILITY REQUESTS		
1915 DECON							
01	A1195	COUNTER, CLEANUP, WITH 3 SINKS.	4	1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A	
02	S0940	WASHER, DISINFECTOR, STM, 100, RSCD1WLL, 26X24X24 SHAM	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, GR, HW, CW, PW, D, A	
03	-	INNOVAVE PCF SONIC IRRIGATOR	2	1915	STERIS	208V, 30A, 3-PH, 60HZ, HW, CW, PW, D	
3A		TRITEC 72	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D	
04	F2410	RACK RETURN	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A	
4A		SCS LOAD-UNLOAD	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A	
1917 - AUTOMATIC CARTWASH AREA (CWSH2)				1917			
05	S3185	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,	
1905 - SCOPE PROCESSING				1905			
06	F0540	CART, SCOPE, TRANSPORT	1	1905			
07	S2627	WASHER, FIBER SCOPE, PASS-THROUGH	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW	
08	S1905	40" AUTOMATED PASS-THROUGH WINDOW	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A, 208V, 60Hz, 3-Ph, 15A	
1906 - SCOPE STAGING ROOM (CSSY1)				1906			
09	M3160	CABINET, STORAGE, HANGING SCOPES	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A	
1923 - PREP ASSEMBLY				1923			
10	S0047	SCS LOAD-UNLOAD	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A	
11	S0048	CART, WASHER TRANSFER	3	1923			
12	-	LOW TEMPERATURE STERILIZER	3	1923	AMSCO	200-208V, 50-60HZ	
13	S9610	ADJUSTABLE DELUXE WORKSTATION	8	1915, 1923			
14	-	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D	
1920 - STERILIZATION				1920			
15	-	AMSCO 600 MEDIUM STEAM STERILIZER	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A	
16	S0495	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	6	1920	STERIS		
1912 - H2O				1912			
17	K2020	DISPENSER, DETERGENT, AUTOMATIC	1	1912	STERIS		
18	M4871	SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN		
19	-	TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro		

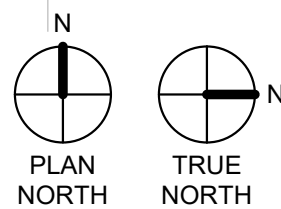
NOTE: SEE SHEET QH-101 FOR MORE SPS MEDICAL EQUIPMENT DETAILS.

- SPECIFIC NOTES:**
- DOWN TO INTERSTITIAL SPACE.
 - DOWN TO INTERSTITIAL SPACE AND UP TO ROOF.
 - PROVIDE AND COORDINATE ALL VAV'S AND VV'S FOR RIGHT/LEFT SIDE FOR ACCESS. TYPICAL ALL VAV'S/VV'S.

WALL RATING LEGEND	
	1-HOUR FIRE BARRIER
	1-HOUR FIRE SMOKE BARRIER
	2-HOUR FIRE BARRIER
	2-HOUR FIRE SMOKE BARRIER
	SMOKE PARTITION
NOTE: SEE FIRE PROTECTION SHEETS.	

SPS MEDICAL EQUIPMENT LEGEND									
TAG	JSN	NAME	QTY	ROOM NO.	BASIS OF DESIGN UTILITY REQUESTS				
1915 DECON									
1915									
01	A1195	COUNTER, CLEANUP, WITH 3 SINKS.	4	1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A			
02	S0940	WASHER, DISINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, CR, HW, CW, PW, D, A			
03	-	INNOVAVE PCF SONIC IRRIGATOR	2	1915	STERIS	208V, 30A, 3-PH, 60HZ, HW, CW, PW, D			
03A		TRITEC T2	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D			
04	F2410	RACK RETURN	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A			
04A		SCS LOAD-UNLOAD	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A			
1917 - AUTOMATIC CARTWASH AREA (CWSH2)									
1917									
05	S3185	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RSCD 2 WLL	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,			
1905 - SCOPE PROCESSING									
1905									
06	F0540	CART, SCOPE, TRANSPORT	1	1905					
07	S2627	WASHER, FIBER SCOPE, PASS-THROUGH	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW			
08	S1905	40" AUTOMATED PASS-THROUGH WINDOW	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A, 208V, 60Hz, 3-Ph, 15A			
1906 - SCOPE STAGING ROOM (CSST1)									
1906									
09	M3160	CABINET, STORAGE, HANGING SCOPES	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A			
1923 - PREP ASSEMBLY									
1923									
10	S0047	SCS LOAD-UNLOAD	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A			
11	S0048	CART, WASHER TRANSFER	3	1923					
12	-	LOW TEMPERATURE STERILIZER	3	1923	AMSCO	200-208V, 50-60HZ			
13	S9610	ADJUSTABLE DELUXE WORKSTATION	8	1915, 1923					
14	-	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D			
1920 - STERILIZATION									
1920									
15	-	AMSCO 600 MEDIUM STEAM STERILIZER	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A			
16	S0495	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	6	1920	STERIS				
1912 - H2O									
1912									
17	K2020	DISPENSER, DETERGENT, AUTOMATIC	1	1912	STERIS				
18	M4871	SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN				
19	-	TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro				
NOTE: SEE SHEET QH-101 FOR MORE SPS MEDICAL EQUIPMENT DETAILS.									

1 LEVEL 3 MECH PIPE REMODEL PLAN
1/8" = 1'-0"

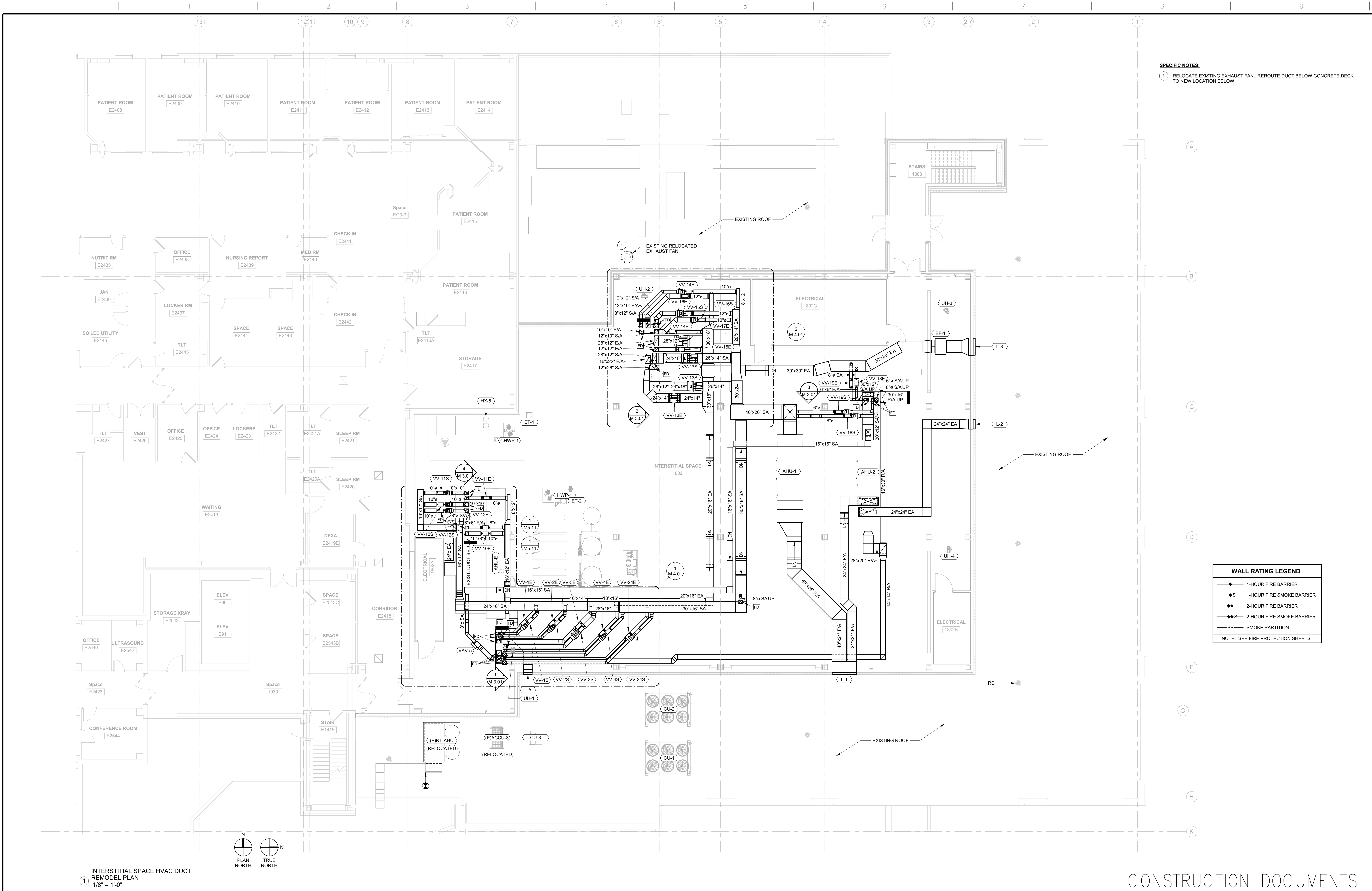


CONSTRUCTION DOCUMENTS

		CONSULTANTS:		ARC HITECT		Drawing Title LEVEL 3 MECHANICAL PIPING REMODEL PLAN		Project Title VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service		Project Number 16.2330.A08		Office of Construction and Facilities Management	
		 TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736		 Albertson Engineering Inc. ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606		 FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Location 4101 Woolworth Ave #4199 Omaha, Ne 68105		Building Number 25			
		 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900				Approved: Project Director Omaha VA Medical Center		Date 11 / 23 / 2020		Checked RD		Drawing Number M 2.02	
COMPLIANCE REVIEW INCLUDED Revisions:		2/23/2024 Date				16.2330.A08				Dwg. 80 of 143			

06/05/2025 16:57:50

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
eighteen inches = one foot
nineteen inches = one foot
twenty inches = one foot
twenty one inches = one foot
twenty two inches = one foot
twenty three inches = one foot
twenty four inches = one foot
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thirty five inches = one foot
thirty six inches = one foot
thirty seven inches = one foot
thirty eight inches = one foot
thirty nine inches = one foot
forty inches = one foot
forty one inches = one foot
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ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



SPECIFIC NOTES:
1 RELOCATE EXISTING EXHAUST FAN. REROUTE DUCT BELOW CONCRETE DECK TO NEW LOCATION BELOW.

WALL RATING LEGEND	
	1-HOUR FIRE BARRIER
	1-HOUR FIRE SMOKE BARRIER
	2-HOUR FIRE BARRIER
	2-HOUR FIRE SMOKE BARRIER
	SPOKE PARTITION
NOTE: SEE FIRE PROTECTION SHEETS.	

CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Drawing Title INTERSTITIAL SPACE HVAC DUCT REMODEL PLAN Approved: Project Director Omaha VA Medical Center	Project Title VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service Location 4101 Woolworth Ave #4199 Omaha, Ne 68105 Date 11 / 23 / 2020 Checked RD Drawn JB	Project Number 16.2330.A08 Building Number 25 Drawing Number M 2.03 Dwg. 81 of 143	Office of Construction and Facilities Management
COMPLIANCE REVIEW INCLUDED Revisions: 2/23/2024 Date		16.2330.A08					

SPECIFIC NOTES:
1 ROUTE DUCT AROUND ROOF DRAIN PIPING.

WALL RATING LEGEND	
	1-HOUR FIRE BARRIER
	1-HOUR FIRE SMOKE BARRIER
	2-HOUR FIRE BARRIER
	2-HOUR FIRE SMOKE BARRIER
	SMOKE PARTITION
NOTE: SEE FIRE PROTECTION SHEETS.	

SPS MEDICAL EQUIPMENT LEGEND									
TAG	JSN	NAME	QTY	ROOM NO.	BASIS OF DESIGN UTILITY REQUESTS				
1915 DECON				1915					
01	A1195	COUNTER, CLEANUP, WITH 3 SINKS.	4	1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A			
02	S0940	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, CR, HW, CW, PW, D, A			
03	-	INNOVAVE PCF SONIC IRRIGATOR	2	1915	STERIS	208V, 30A, 3-PH, 60HZ, HW, CW, PW, D			
04	F2410	RACK RETURN	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D			
3A			1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A			
4A		SCS LOAD-UNLOAD	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A			
1917 - AUTOMATIC CARTWASH AREA (CWSH2)				1917					
05	S3185	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RSCD 2 WLL	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,			
1905 - SCOPE PROCESSING				1905					
06	F0540	CART, SCOPE, TRANSPORT	1	1905					
07	S2627	WASHER, FIBER SCOPE, PASS-THROUGH	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW			
08	S1905	40" AUTOMATED PASS-THROUGH WINDOW	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A, 208V, 60Hz, 3-Ph, 15A			
1906 - SCOPE STAGING ROOM (CSST1)				1906					
09	M3160	CABINET, STORAGE, HANGING SCOPES	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A			
1923 - PREP ASSEMBLY				1923					
10	S0047	SCS LOAD-UNLOAD	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A			
11	S0048	CART, WASHER TRANSFER	3	1923					
12	-	LOW TEMPERATURE STERILIZER	3	1923	AMSCO	200-208V, 50-60HZ			
13	S9610	ADJUSTABLE DELUXE WORKSTATION	8	1915, 1923					
14	-	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D			
1920 - STERILIZATION				1920					
15	-	AMSCO 600 MEDIUM STEAM STERILIZER	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A			
16	S0495	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	6	1920	STERIS				
1912 - H2O				1912					
17	K2020	DISPENSER, DETERGENT, AUTOMATIC	1	1912	STERIS				
18	M4871	SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN				
19	-	TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro				
NOTE: SEE SHEET QH-101 FOR MORE SPS MEDICAL EQUIPMENT DETAILS.									

1 LEVEL 3 HVAC DUCT REMODEL PLAN
1/8" = 1'-0"

CONSULTANTS:

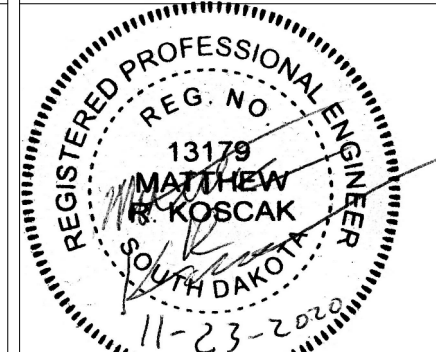
TERRASITE DESIGN
1635 DEADWOOD AVENUE
RAPID CITY, SOUTH DAKOTA 57702
PH: (605) 791-1736

Albertson Engineering Inc.

FARRIS ENGINEERING
12700 WEST DODGE ROAD
OMAHA, NEBRASKA 68154
PH: (402) 330-5900

ALBERTSON ENGINEERING, INC.
3202 WEST MAIN STREET, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
PH: (605) 343-9606

FARRIS ENGINEERING
12700 WEST DODGE ROAD
OMAHA, NEBRASKA 68154
PH: (402) 330-5900



ARCHITECT

FOURFRONT DESIGN, INC.
517 7TH STREET
RAPID CITY, SOUTH DAKOTA 57701
PH: (605) 342-9470
FAX: (605) 342-2377
WWW.FOURFRONTDESIGN.COM

Drawing Title

LEVEL 3 HVAC DUCT REMODEL PLAN

Approved: Project Director

Omaha VA Medical Center

Project Title

VA NWIHCS OMC CAMPUS -
AE Construct Sterile Processing
Service

Location 4101 Woolworth Ave #4199
Omaha, Ne 68105

Date 11 / 23 / 2020

Checked RD

Drawn JB

Project Number

16.2330.A08

Building Number
25

Drawing Number

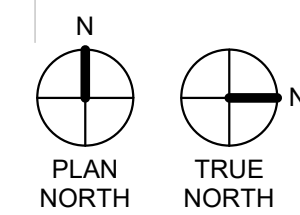
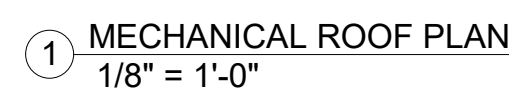
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Dwg. 82 of 143

Office of
Construction
and Facilities
Management

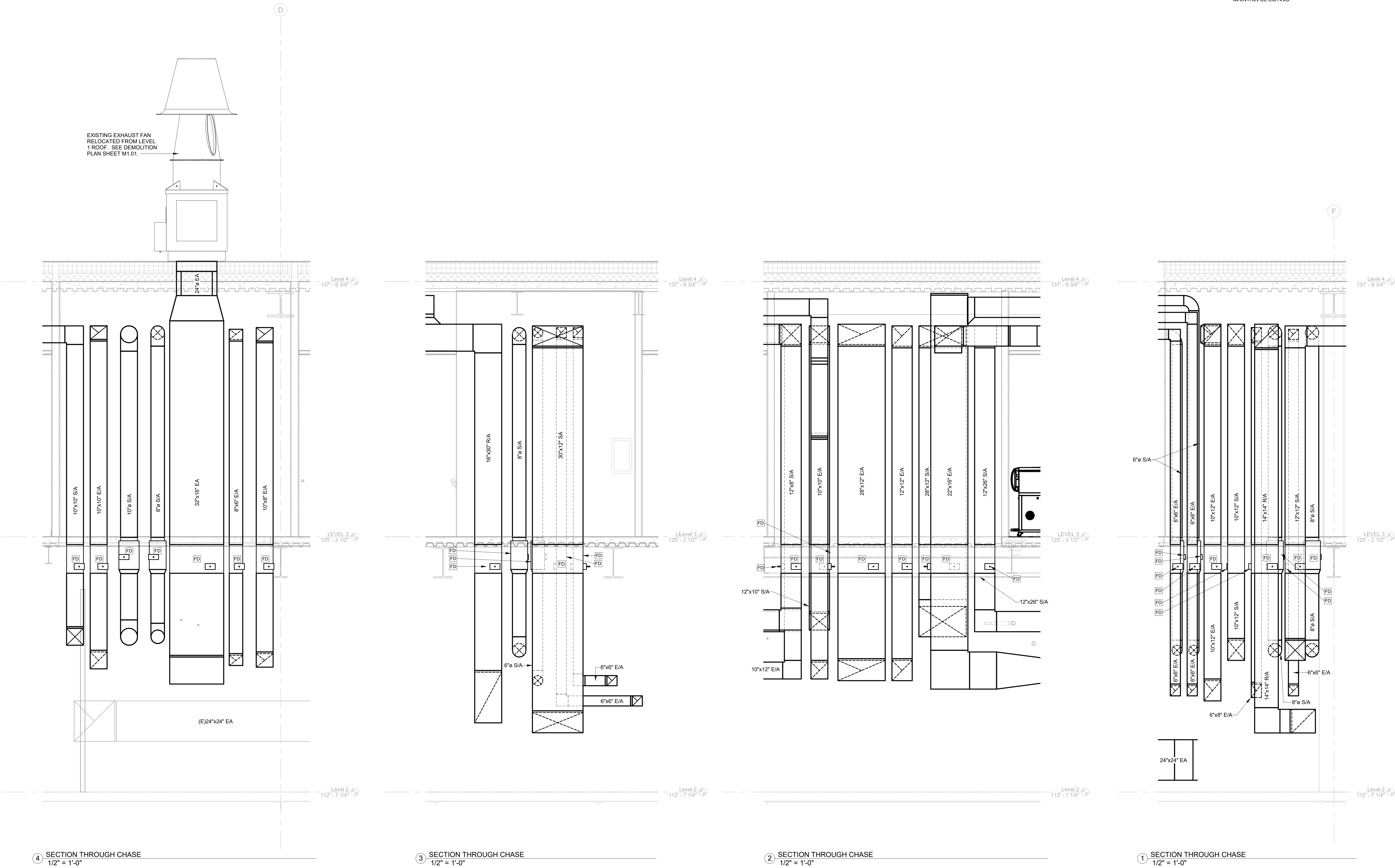


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		CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736		ALBERTSON ENGINEERING INC. ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606				ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Project Number 16.2330.A08		Project Title VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service		Building Number 25		Office of Construction and Facilities Management	
COMPLIANCY REVIEW INCLUDED Revisions:		2/23/2024 Date						Approved: Project Director Omaha VA Medical Center		Location 4101 Woolworth Ave #4199 Omaha, Ne 68105		Drawing Number M 2.06 Dwg. 84 of 143		Department of Veterans Affairs			

GENERAL NOTE:
INSTALL 2 HOUR RATED FIRE DAMPERS IN ALL DUCT FLOOR PENETRATIONS. FIRE DAMPERS TO BE ACCESSIBLE FROM INTERSTITIAL SPACE. PROVIDE ACCESS PANELS FOR ALL FIRE DAMPERS. INSTALL ACCORDING TO MANUFACTURERS INSTRUCTIONS TO MAINTAIN UL LISTING.



CONSTRUCTION DOCUMENTS

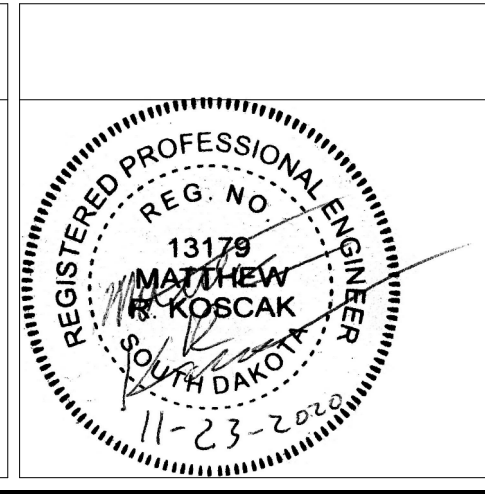
COMPLIANCE REVIEW INCLUDED Revisions: 2/23/2024 Date		CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 Albertson Engineering Inc. FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900 ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900	ARCHITECT FOURFRONT DESIGN INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	Drawing Title MECHANICAL SECTIONS Approved: Project Director Omaha VA Medical Center 16.2330.A08	Project Title VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service Location 4101 Woolworth Ave #4199 Omaha, Ne 68105 Date 11 / 23 / 2020 Checked RD Drawn JB	Project Number 16.2330.A08 Building Number 25 Drawing Number M 3.01 Dwg. 85 of 143	Office of Construction and Facilities Management Department of Veterans Affairs
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06/05/2025 16:38:26

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one and one half inches = one foot
one and one half inches = one foot
one and one half inches = one foot

COMPLIANCE REVIEW INCLUDED	2/23/2024
Revisions:	Date

CONSULTANTS:	
 TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736	 ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606
 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900	



ARCHITECT	
 FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	16.2330.A08

Drawing Title
LARGE-SCALE VIEWS
Approved: Project Director
Omaha VA Medical Center

Project Title		
VA NWIHCS OMC CAMPUS - AE Construct Sterile Processing Service		
Location 4101 Woolworth Ave #4199 Omaha, Ne 68105		
Date 11 / 23 / 2020	Checked RD	Drawn JB

Project Number 16.2330.A08
Building Number 25
Drawing Number M 4.01
Dwg. 86 of 143

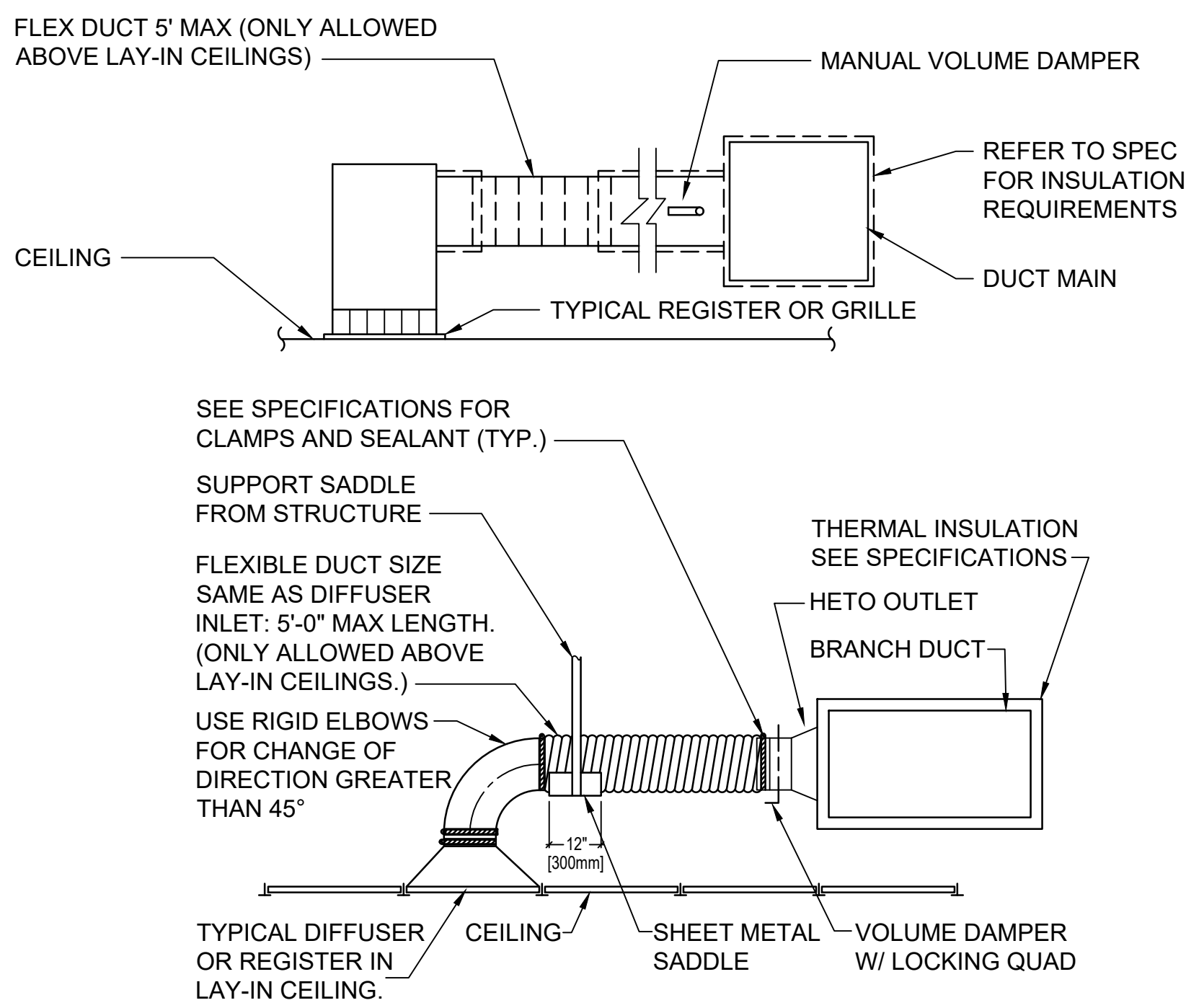


CONSTRUCTION DOCUMENTS

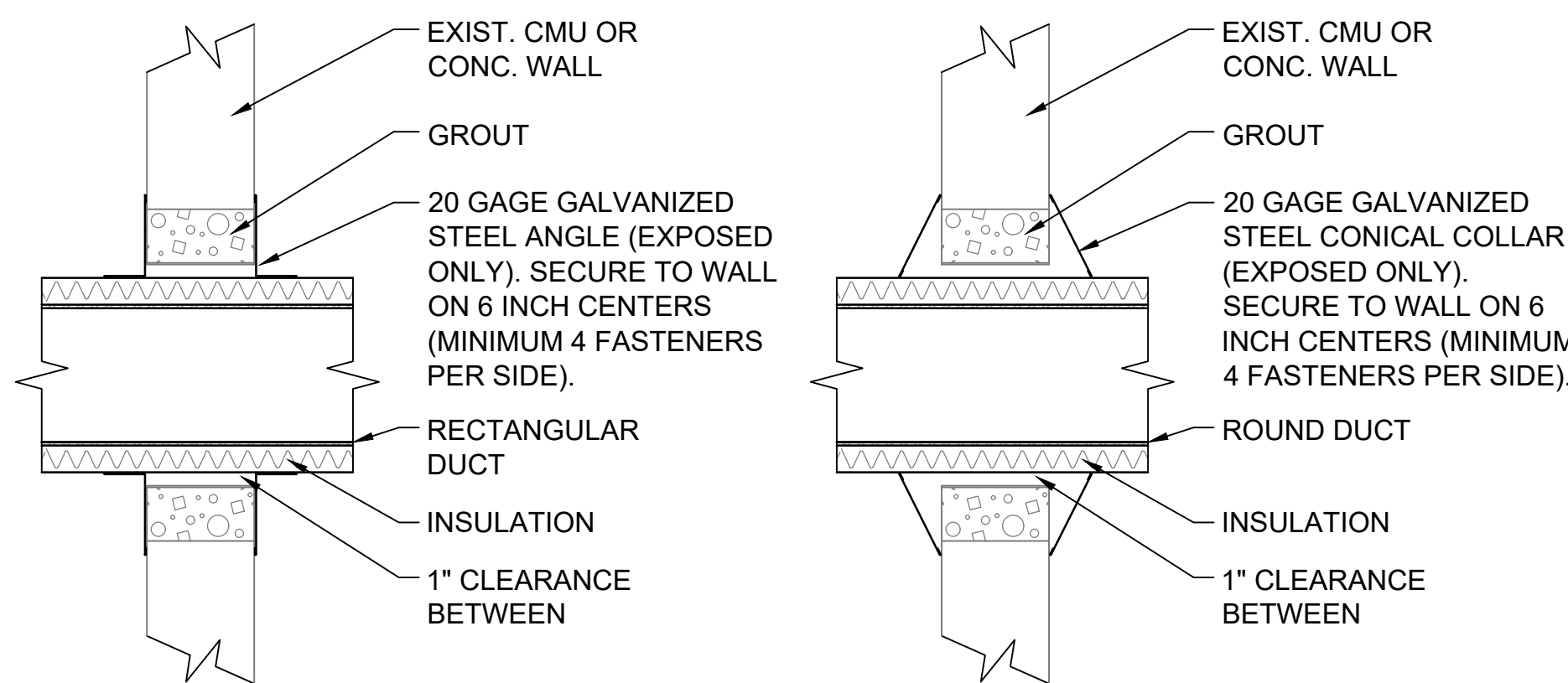
NOTE:

- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
- WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
- ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
- WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

1 DUCTWORK SQUARE VANE ELBOWS DETAIL
SCALE: N.T.S.



4 GRILLE, REGISTER, AND DIFFUSER DETAIL
SCALE: N.T.S.

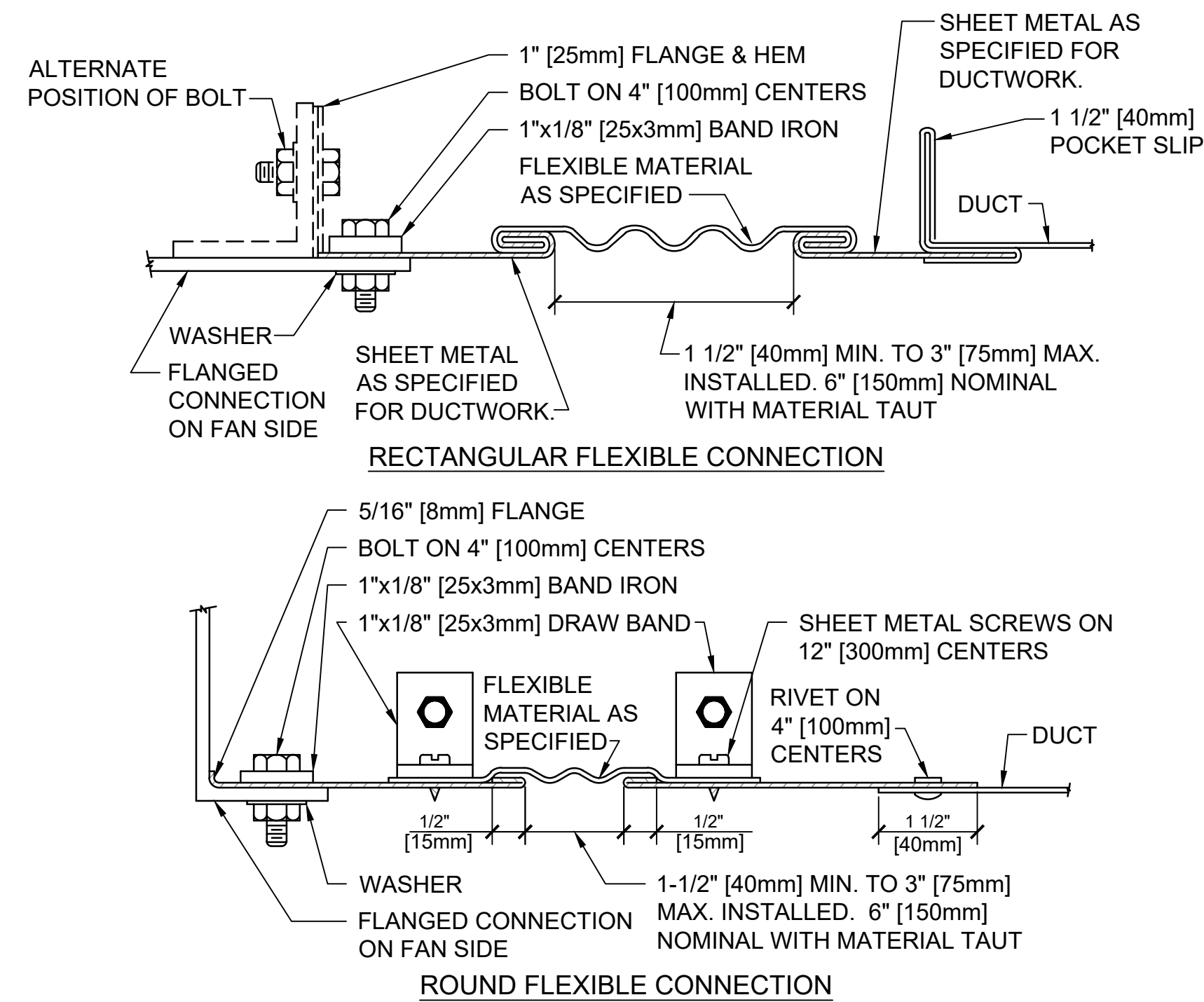


7 DUCT PENETRATION THROUGH WALL DETAIL
SCALE: N.T.S.

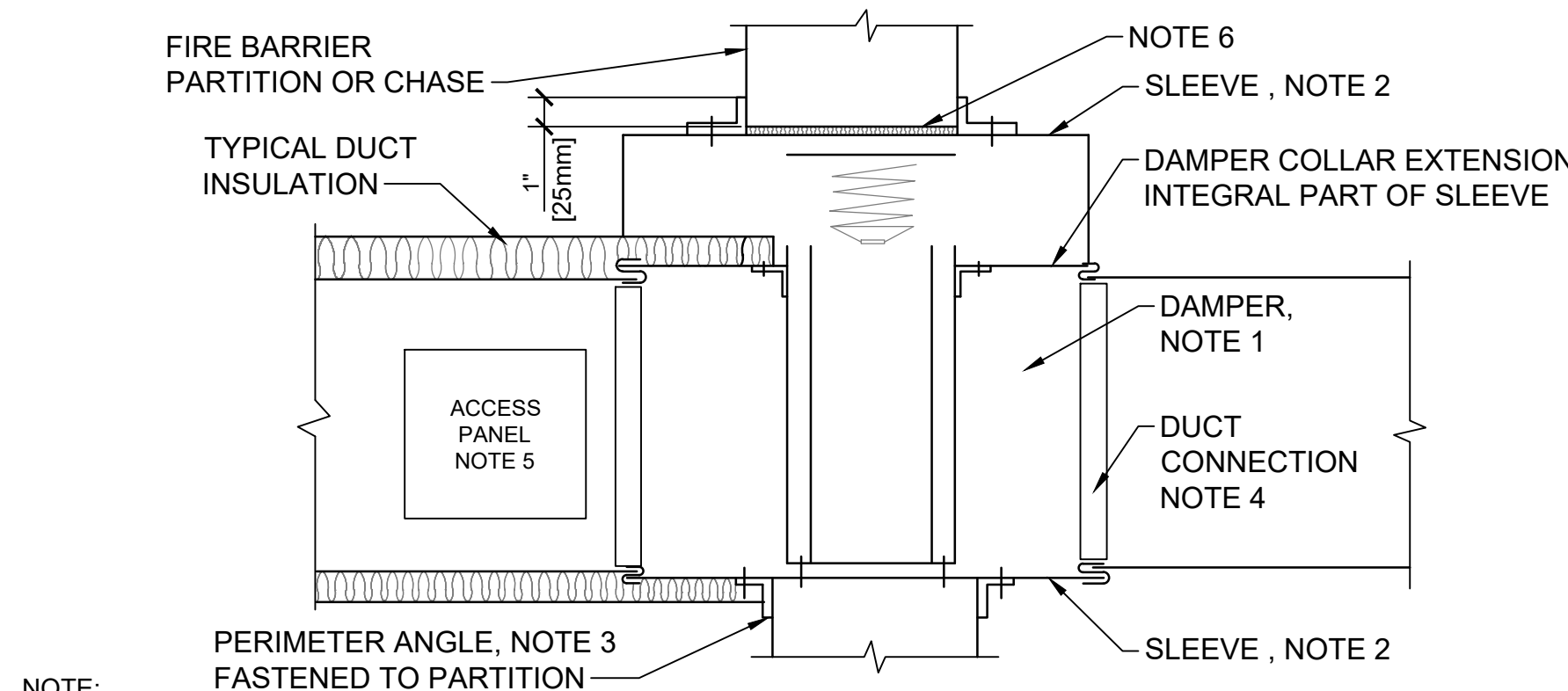
NOTE:

- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
- ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

2 DUCTWORK RADIUS ELBOWS DETAIL
SCALE: N.T.S.



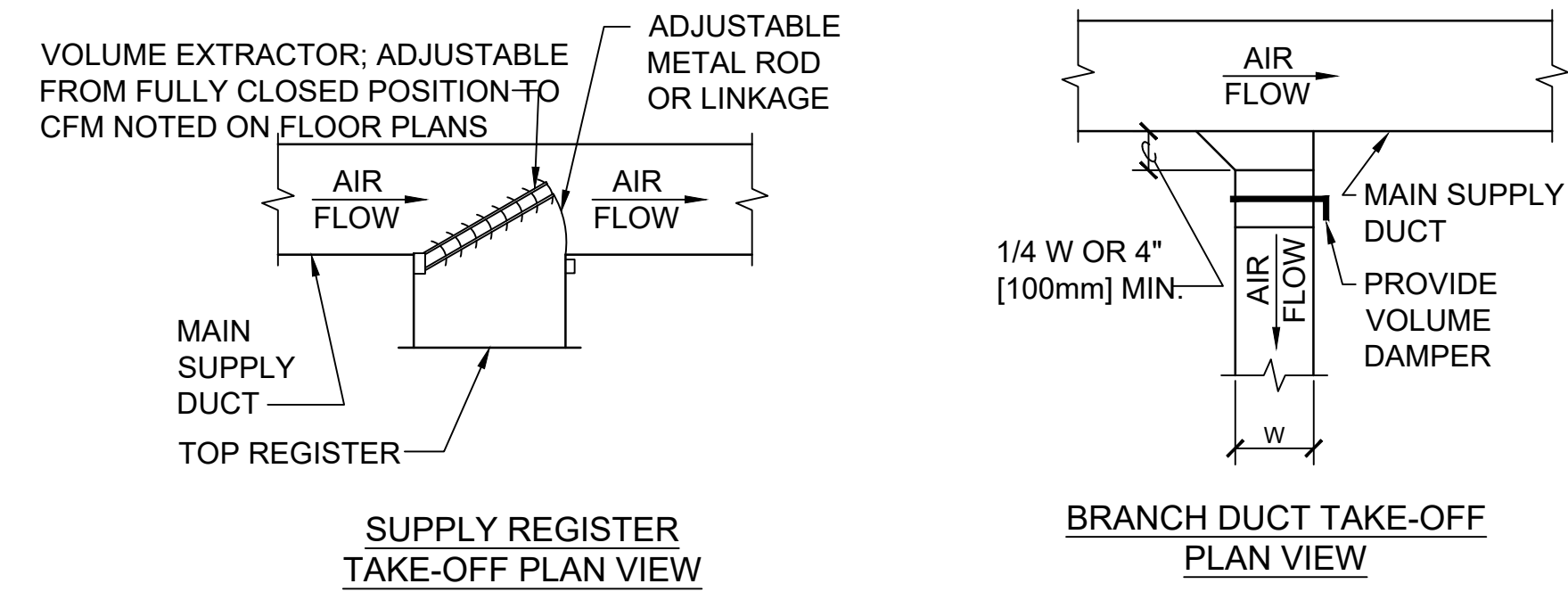
5 FLEXIBLE DUCT CONNECTIONS
SCALE: N.T.S.



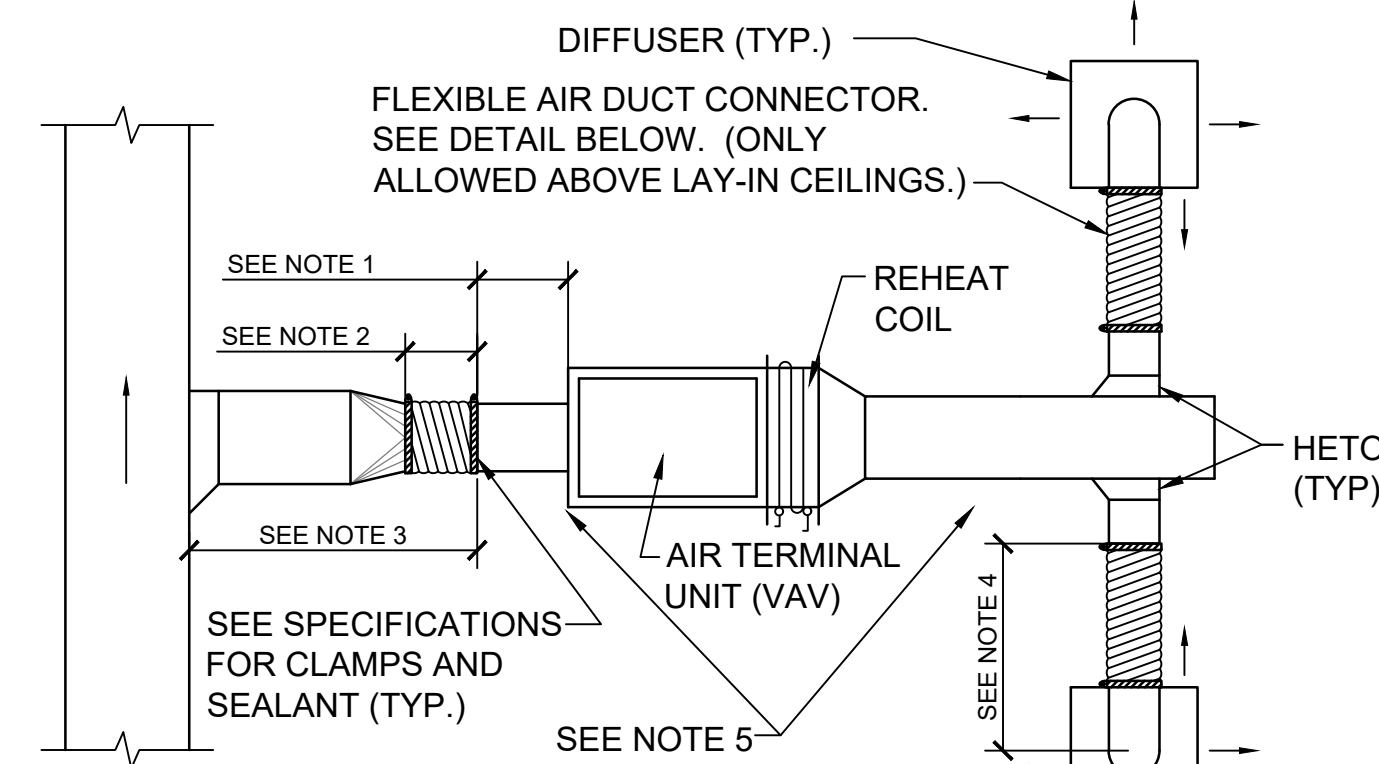
NOTE:

- A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
- GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
- PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2" [40x40mm], 14 GAGE, TO PROVIDE 1" [25mm] MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
- BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
- BUILD ACCESS DOOR ACCORDING TO LATEST SMACNA GUIDELINES. INSTALL IN AN ACCESSIBLE LOCATION AND PROVIDE WEDGE TYPE LATCHES. HINGES ON DOOR SHALL HAVE NON-CORROSIVE PINS.
- PROVIDE 1/4" TO 1/2" [6 TO 15mm] CLEARANCE ON HEIGHT AND WIDTH.

8 SECTION THRU FIRE DAMPER INSTALLATION
SCALE: N.T.S.



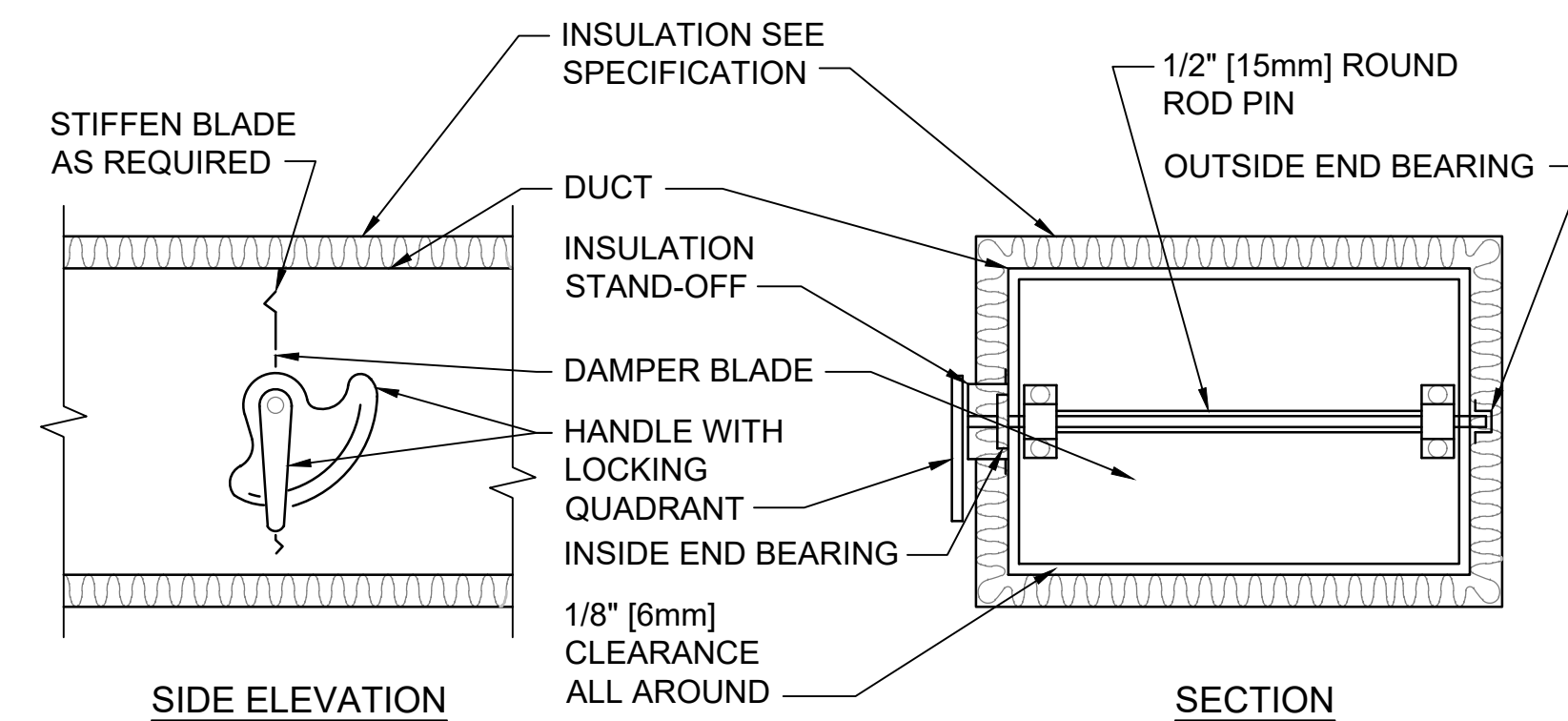
3 SUPPLY DUCT TAKE-OFF DETAIL
SCALE: N.T.S.



NOTE:

- RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
- A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0" [900mm].
- A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' [1.64Pa/m].
- FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" [1500mm]. USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
- COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

6 DUCT CONNECTIONS - AIR TERMINAL UNITS
SCALE: N.T.S.



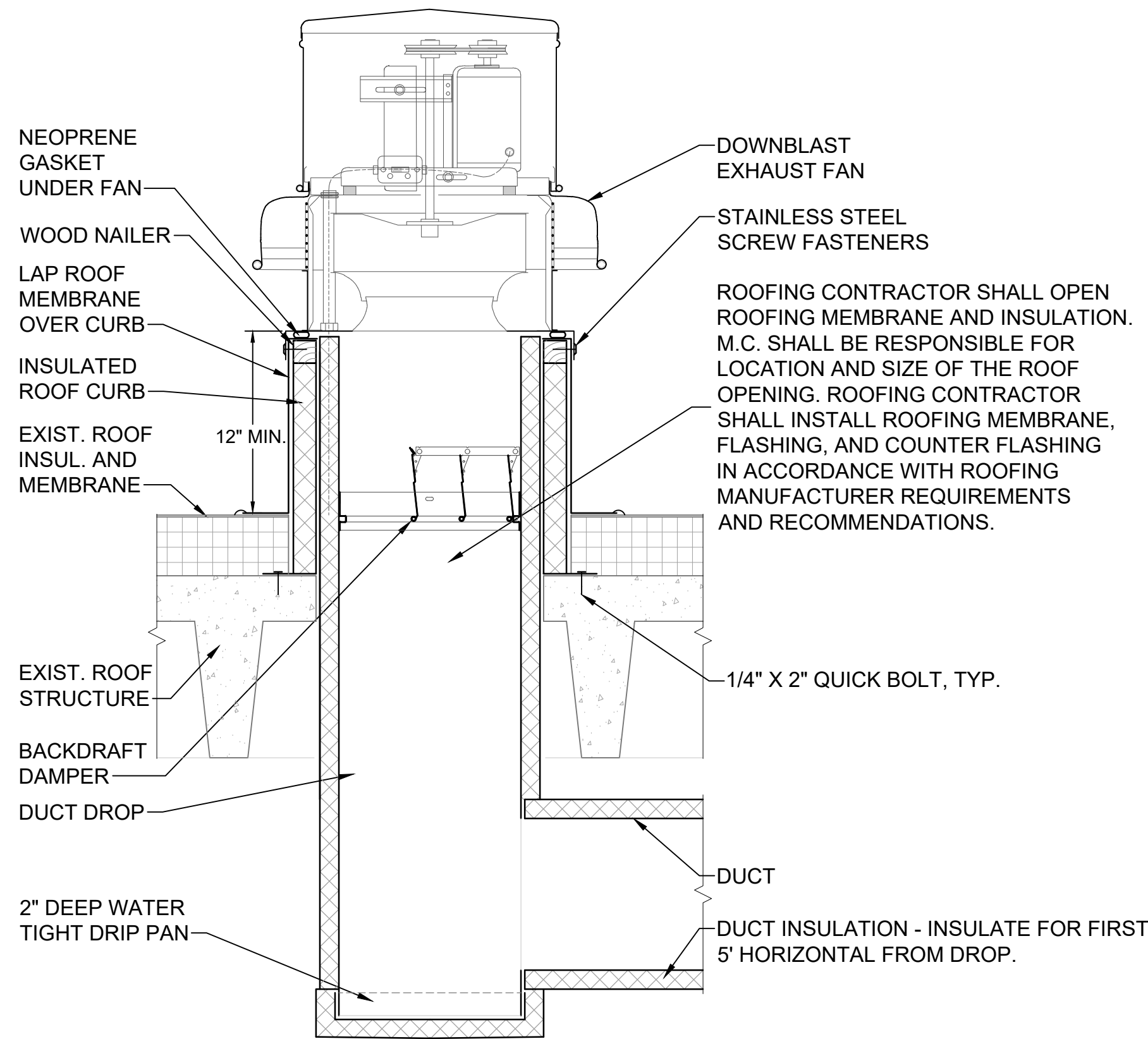
NOTE:

- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
- DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

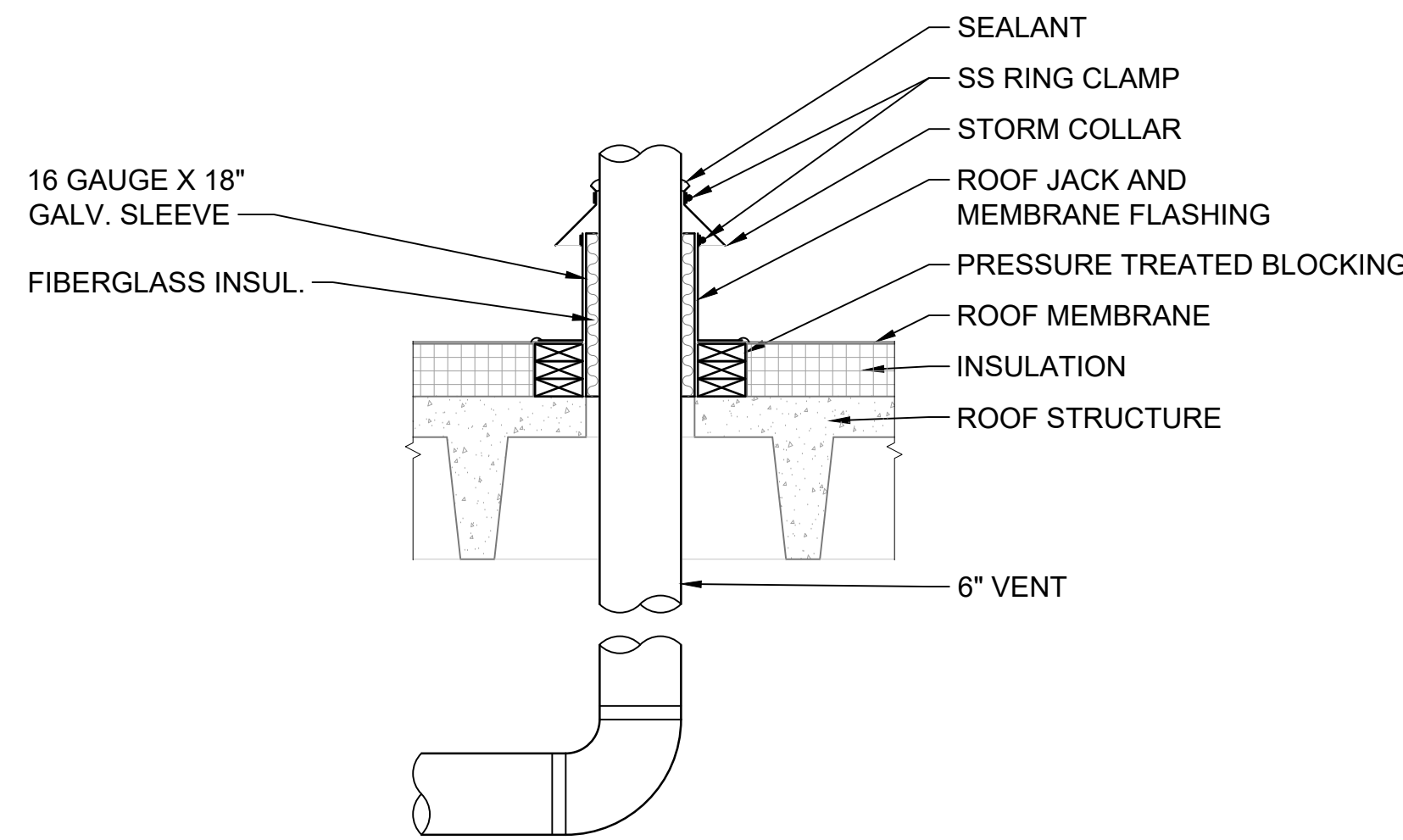
9 VOLUME DAMPER DETAIL
SCALE: N.T.S.

CONSTRUCTION DOCUMENTS

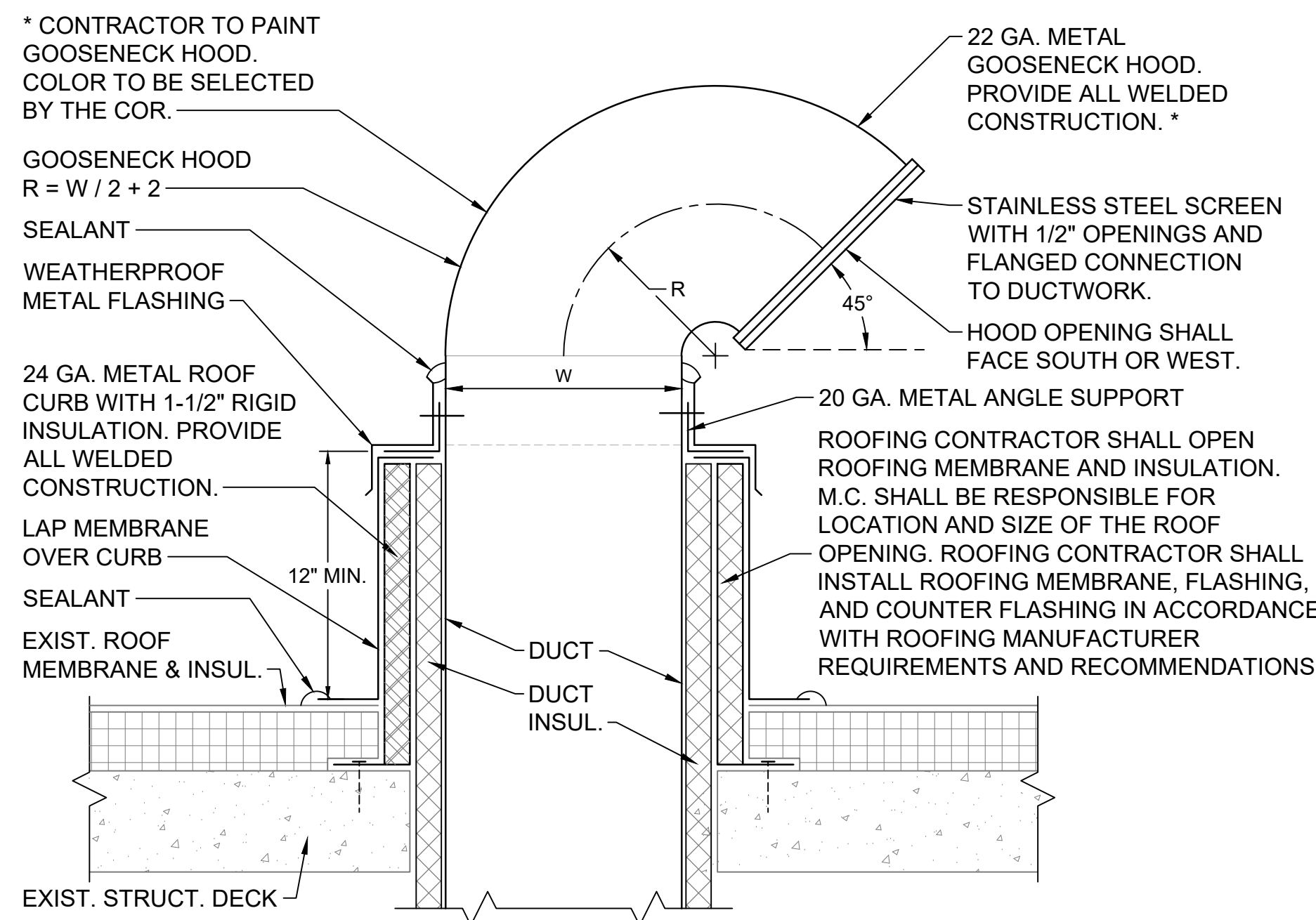
COMPLIANCE REVIEW INCLUDED Revisions: 2/23/2024 Date		CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 Albertson Engineering Inc. FARRIS ENGINEERING OMAHA BRANCH (BENTLEY) (CROSSROADS STREET) OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT/ENGINEERS: FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Drawing Title Mechanical Details Building 5 - Dry Side 1 Approved: Project Director Omaha VA Medical Center	Project Title Design/Construct Sterile Processing Service- Omaha VA Medical Center Location 4101 Woolworth Ave #4109 Omaha, NE 68105 Date 11 / 23 / 2020 Checked MK Drawn JB	Project Number 16.2330.A08 Building Number 25 Drawing Number M 5.00 Dwg. 87 of 143	Office of Construction and Facilities Management Department of Veterans Affairs
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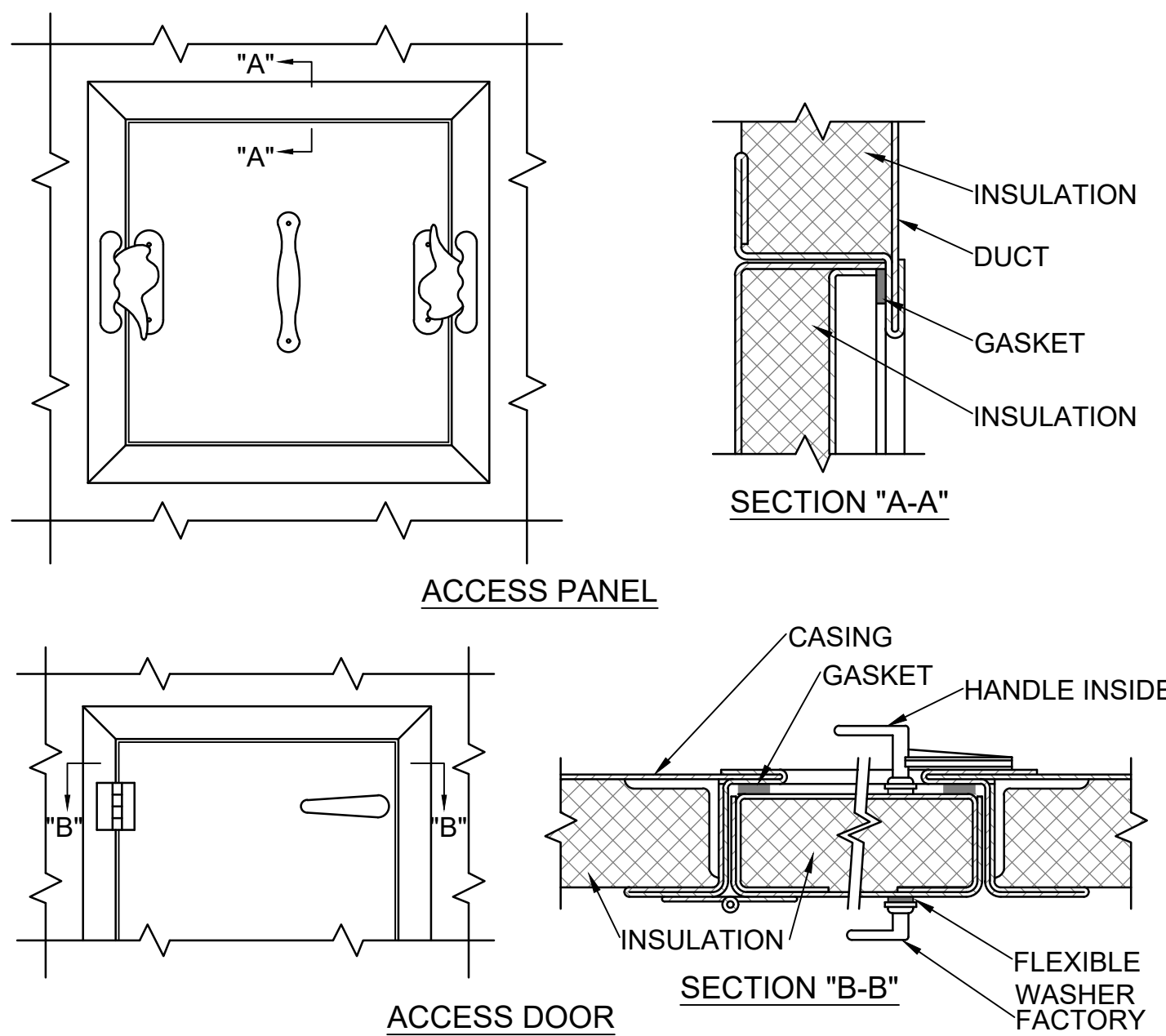
1 DOWNBLAST ROOF FAN DETAIL
SCALE: N.T.S.



4 VENT THRU ROOF DETAIL
SCALE: N.T.S.

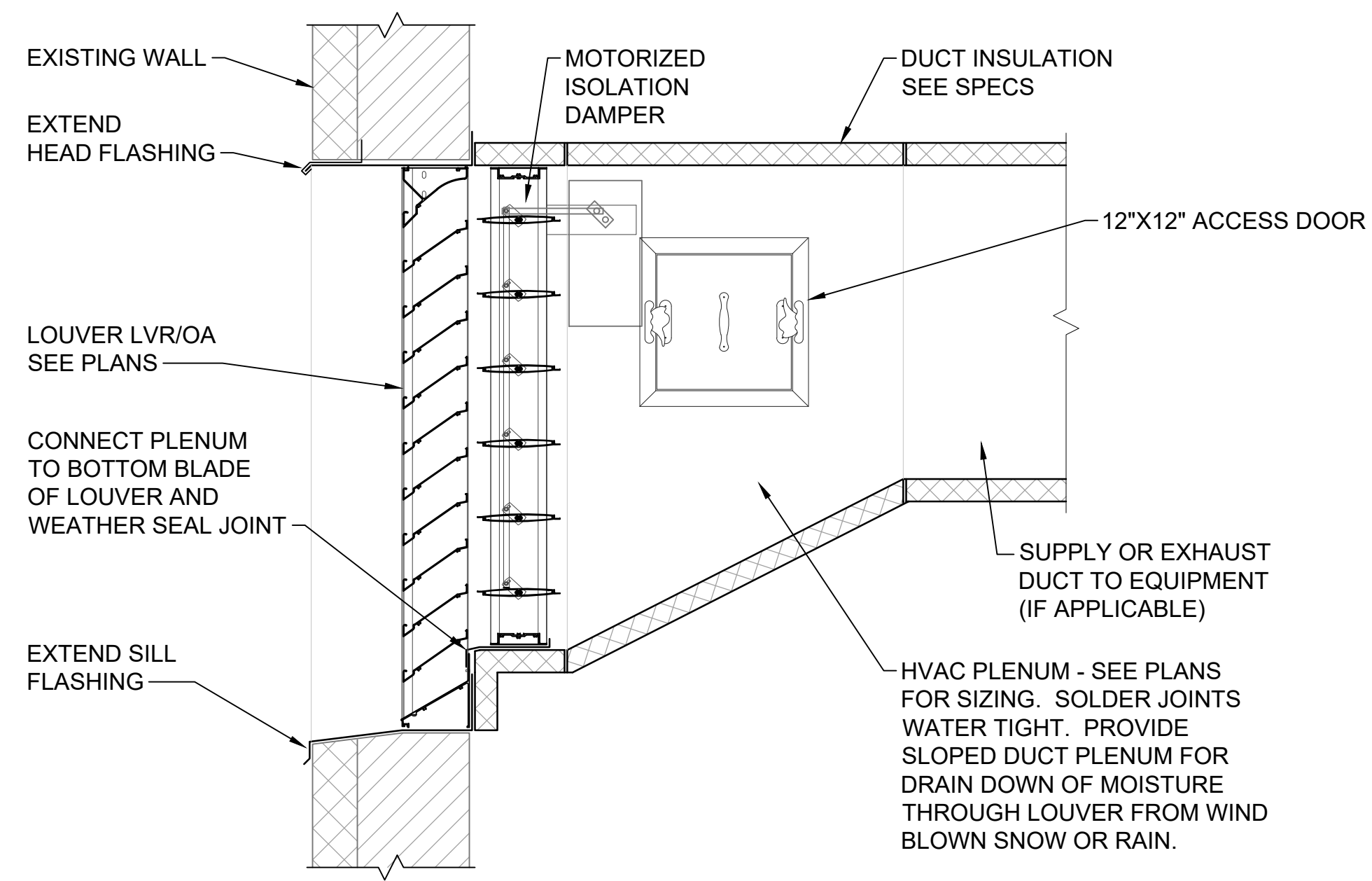


2 GOOSENECK HOOD DETAIL
SCALE: N.T.S.

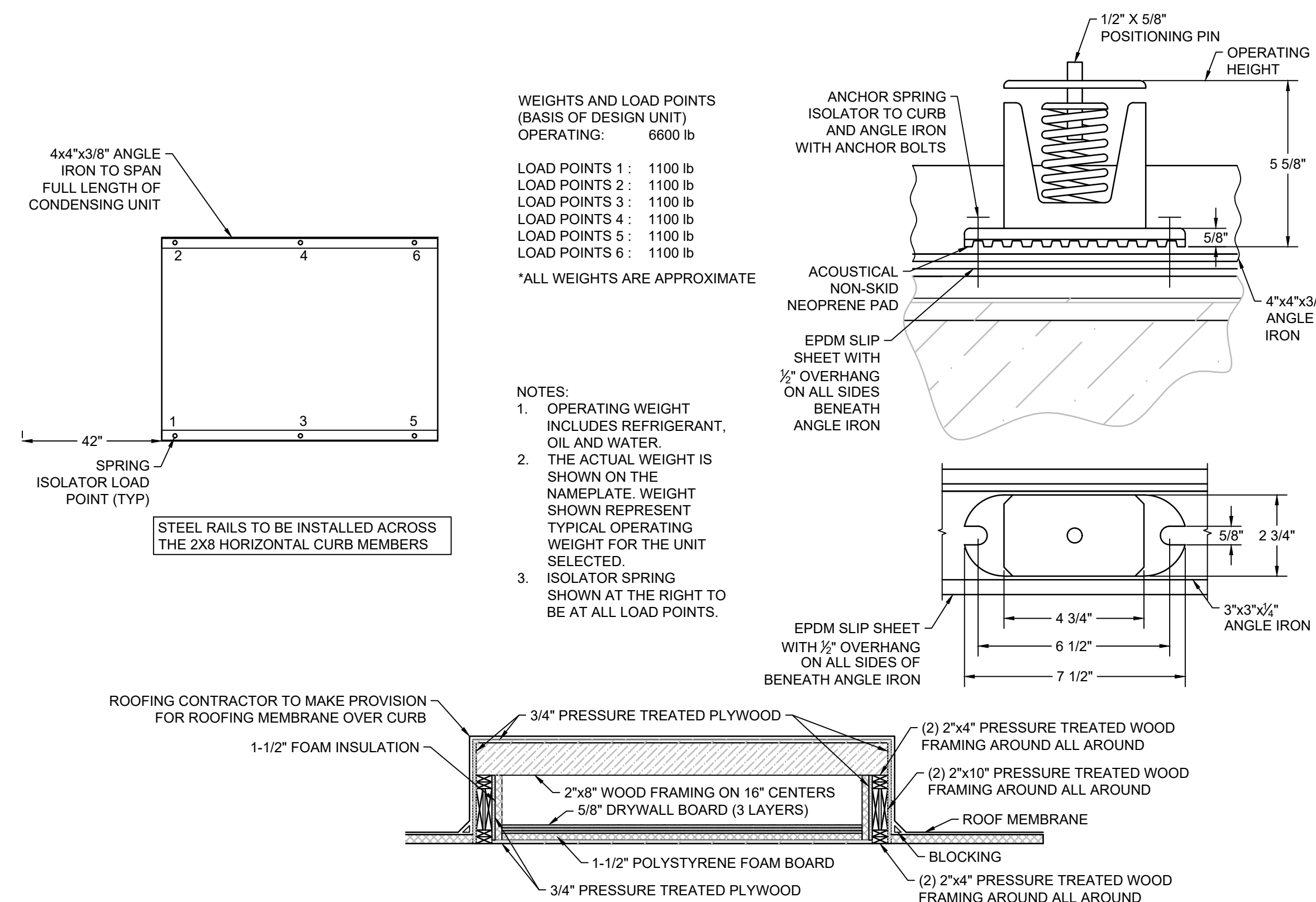


- NOTES:
- LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 - HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
 - SEE SMACNA 2005, FIGURE 9-15

5 ACCESS PANEL AND DOOR DETAIL
SCALE: N.T.S.



3 LOUVER DETAIL
SCALE: N.T.S.



6 ROOF CURB DETAIL
SCALE: N.T.S.

MECHANICAL SPECIALTY SCHEDULE									
SPECIALTY TAG	DESCRIPTION	MANUFACTURER & MODEL #	SIZE	UNIT	QUANTITY	REMARKS	SYMBOL	INSTALL	TEST
SOV-1	HYDRONIC BALL VALVE	WATTS G4000	2\"/>						
SOV-2	DOMESTIC WATER BALL VALVE	WATTS LFB6000	1/2\"/>						
GV-1	HYDRONIC GATE VALVE	WATTS 40S-NRS-RW	2\"/>						
STT-1	STEM TYPE THERMOMETER	DWYER SERIES IT	2\"/>						
TT-1	THERMOMETER THERMOWELL	DWYER SERIES IT-W	2\"/>						
PG-1	HYDRONIC PRESSURE GAUGE	LFDPG1-2 0-160 1/4	1/2\"/>						
T&P-1	TEMPERATURE AND PRESSURE RELIEF	WATTS LF40	3/4\"/>						
AAV-1	AUTOMATIC AIR VENT	WATTS FV4M1	1\"/>						
PRV-1	PRESSURE REDUCING VALVE	WATTS LF2SAUB-Z3	1/2\"/>						
BFP-1	RPP BACKFLOW PREVENTER	ZURN 375XL	1/2\"/>						
EXT-1	EXPANSION TANK	AMTROL AX-15V	3/4\"/>						

NOTES:

- PROVIDE ALL STT-1 WITH TT-1.
- PROVIDE WITH TEE AND INLET SHUT OFF VALVE.

PLUMBING SPECIALTY MAY BE CALLED OUT ON PLANS AS TAGGED, SPECIFICALLY CALLED FOR IN NOTES/DETAILS, OR NOT AT ALL. IF REFERENCE TO ANY OF THE ABOVE SPECIALTY IS NOT SPECIFICALLY CALLED OUT, THIS SCHEDULE ALSO PROVIDES BASIS OF SPECIFICATION FOR SUPPLY BY THE CONTRACTOR.

ARCHITECT/ENGINEERS:

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517 7TH STREET
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57701
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WWW.FOURFRONTDESIGN.COM

Drawing Title
Mechanical Details
Building 5 - Dry Side 2

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile
Processing Service- Omaha VA
Medical Center

Location 4101 Woolworth Ave #4109
Omaha, NE 68105

Project Number
16.2330.A08

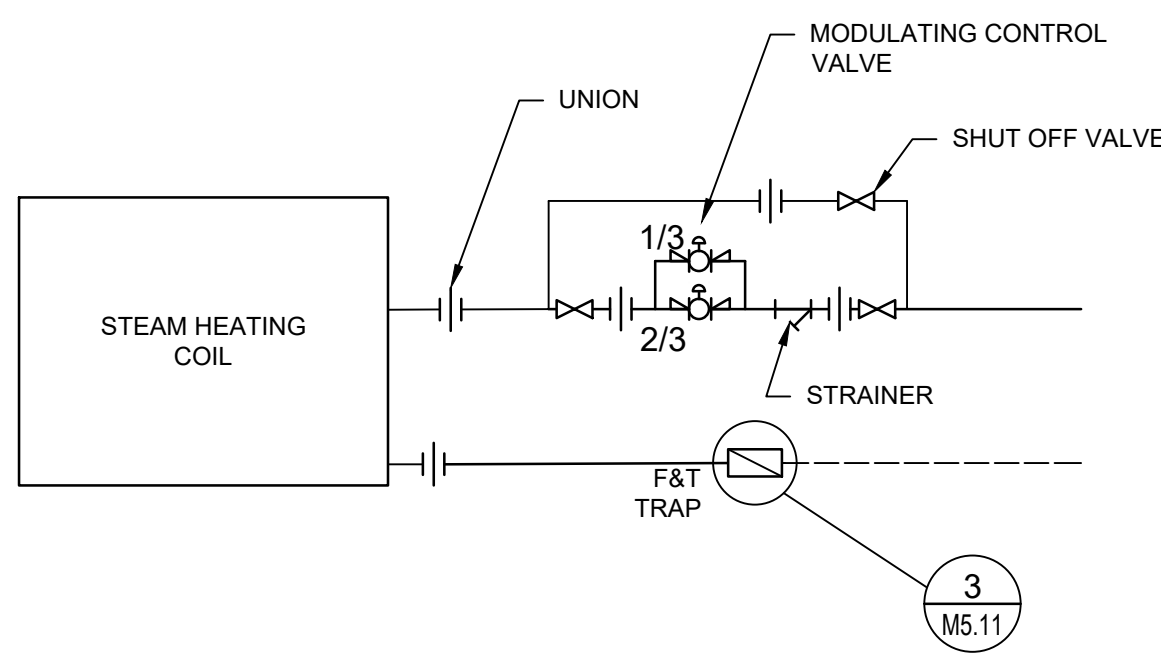
Building Number
25

Drawing Number
M 5.01

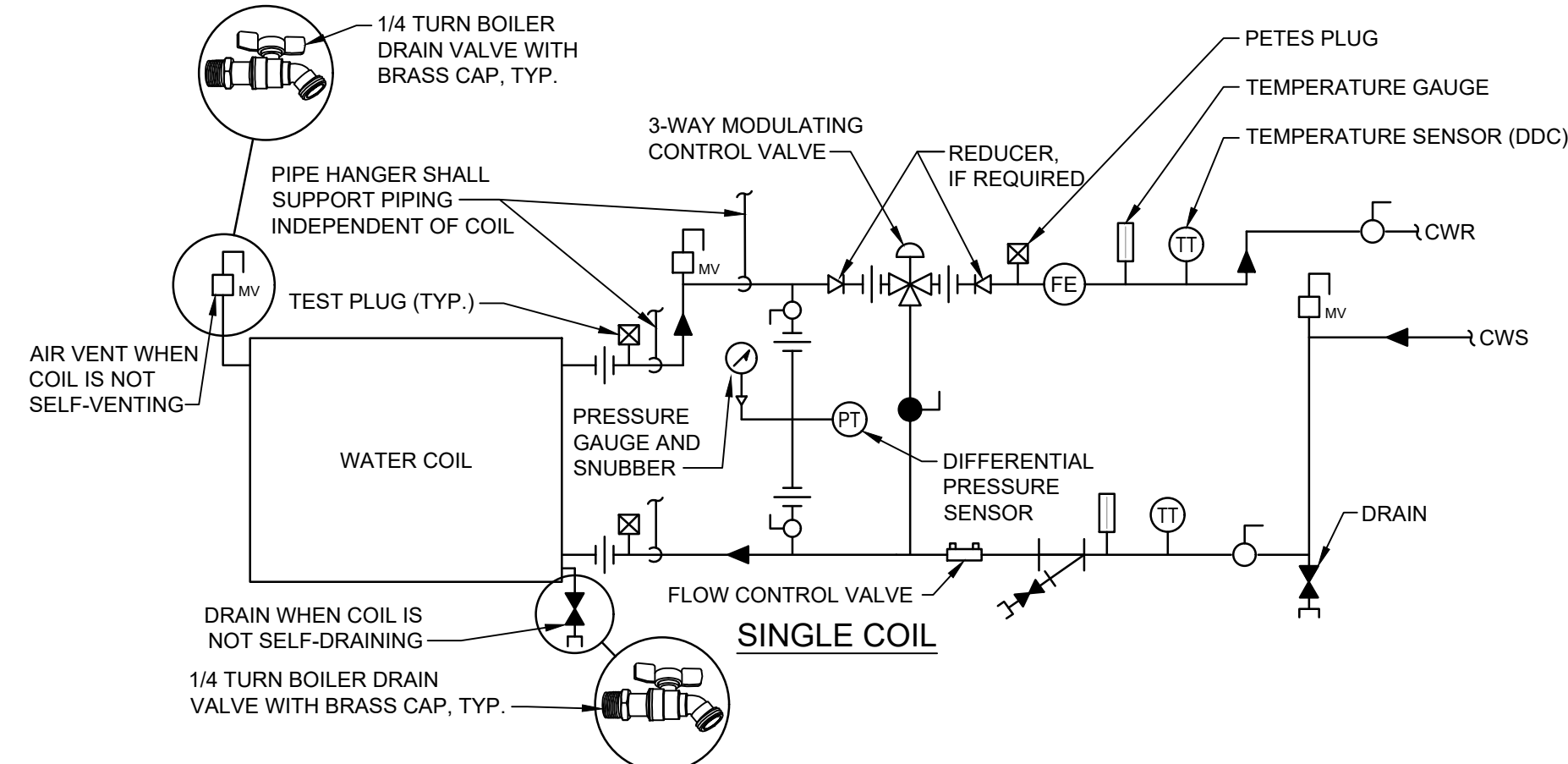
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Office of
Construction
and Facilities
Management

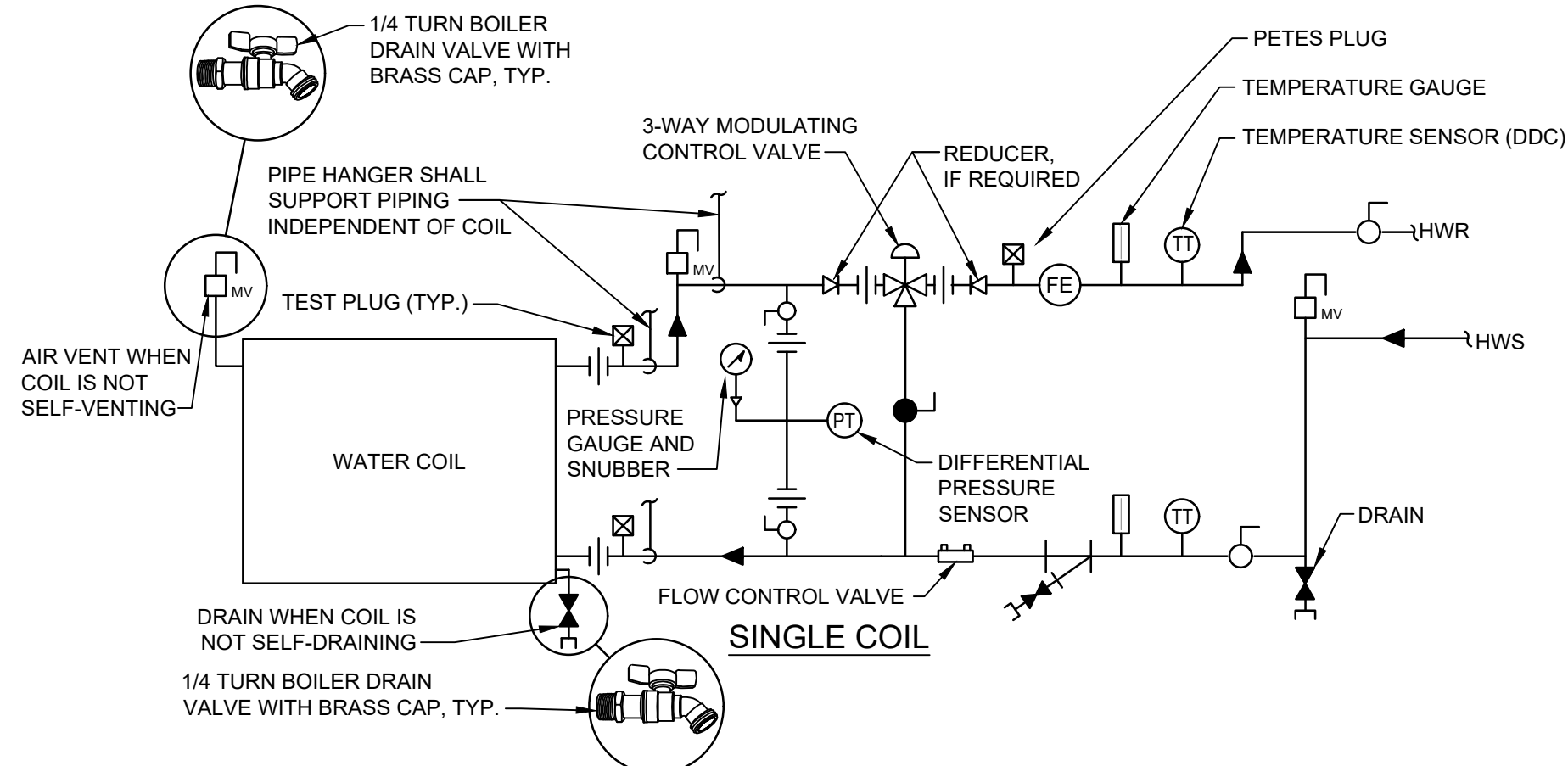
Department of
Veterans Affairs



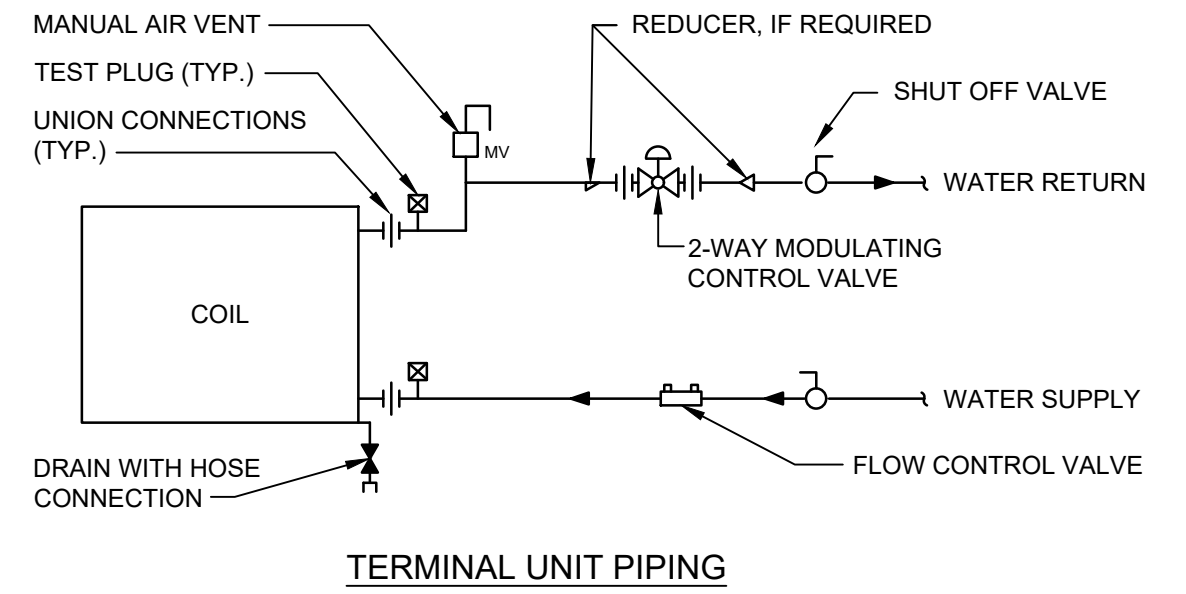
1 AHU STEAM HEATING COILS - PIPING CONNECTIONS
SCALE: N.T.S.



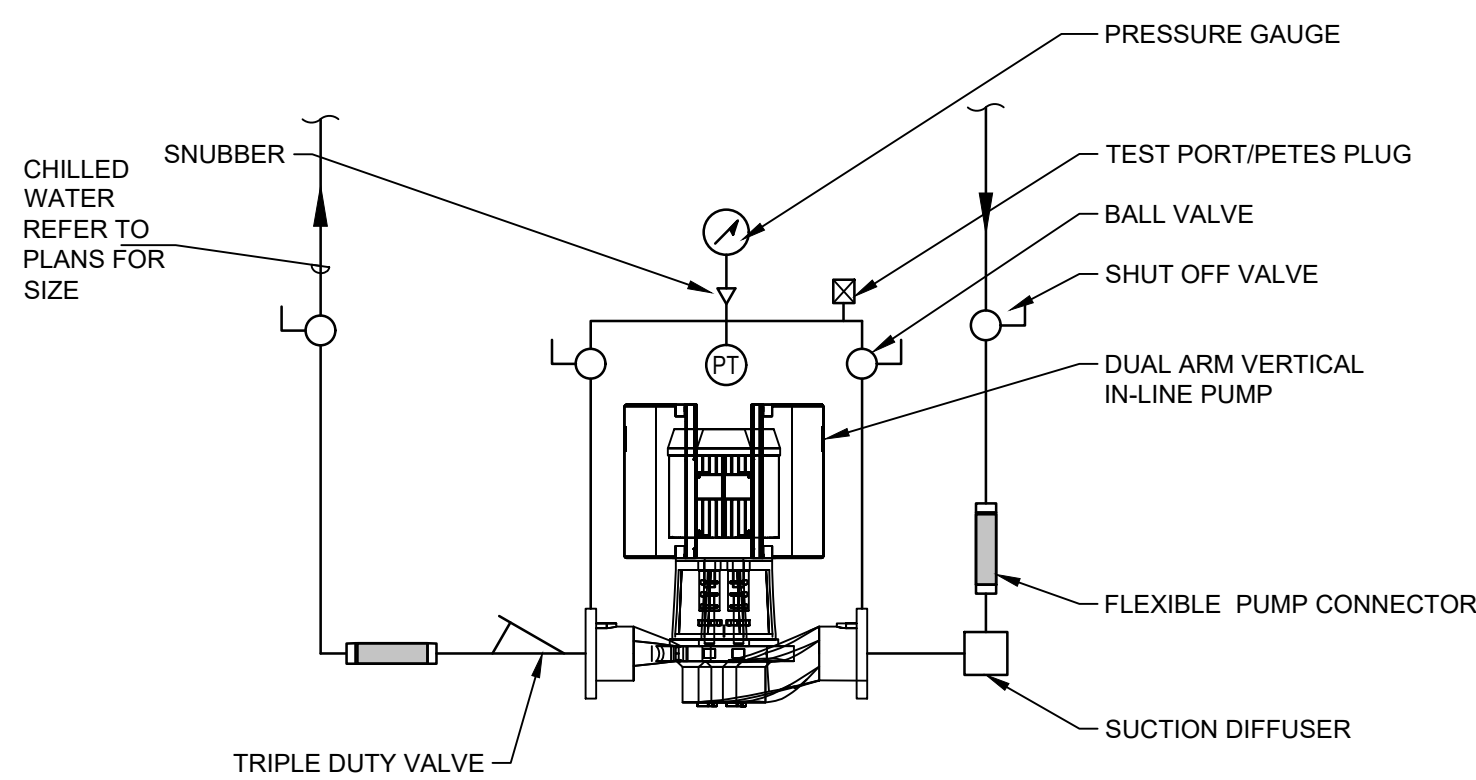
2 AHU CHILLED WATER COILS - PIPING CONNECTIONS
SCALE: N.T.S.



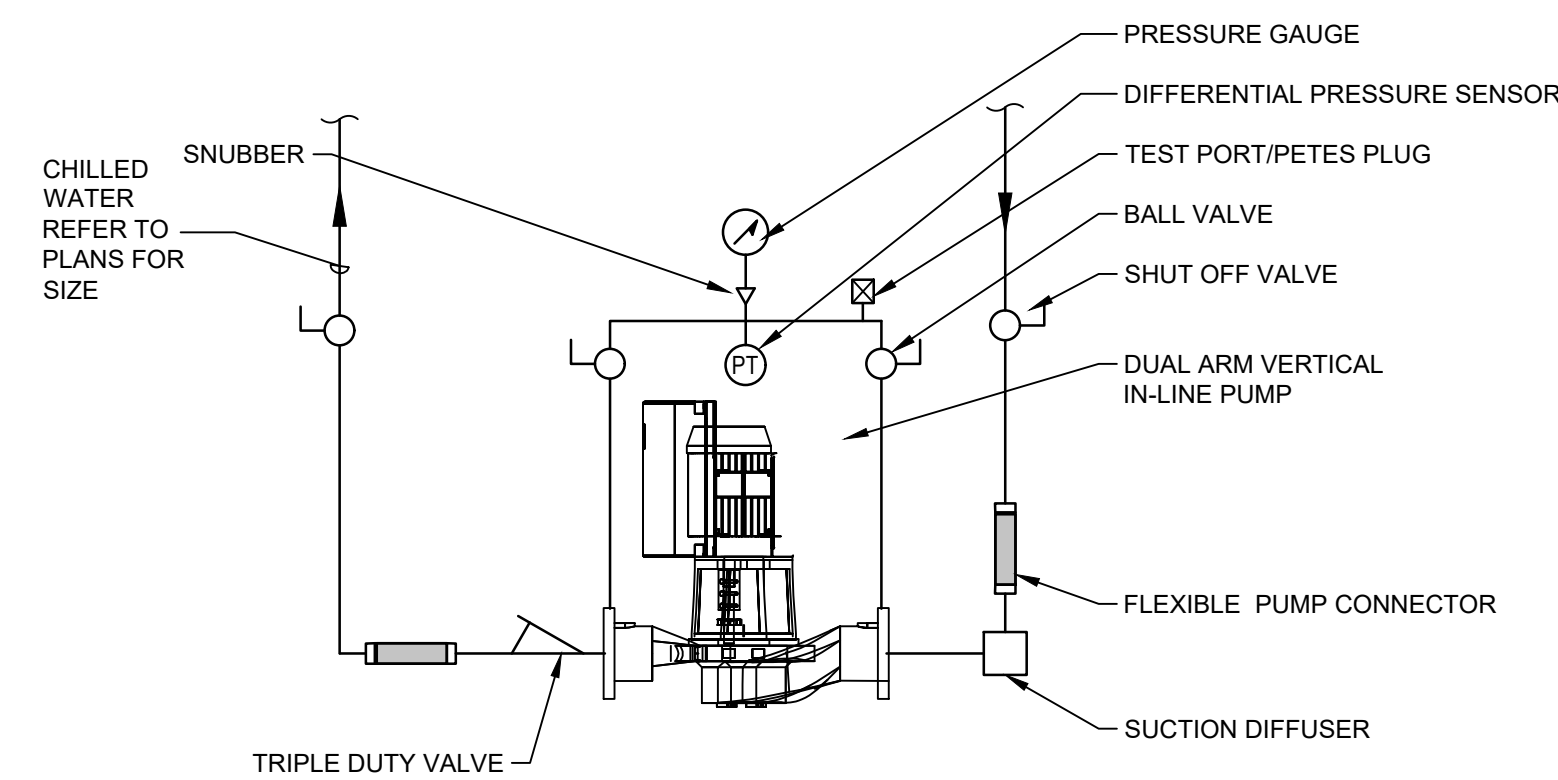
3 AHU HEATING WATER COILS - PIPING CONNECTIONS
SCALE: N.T.S.



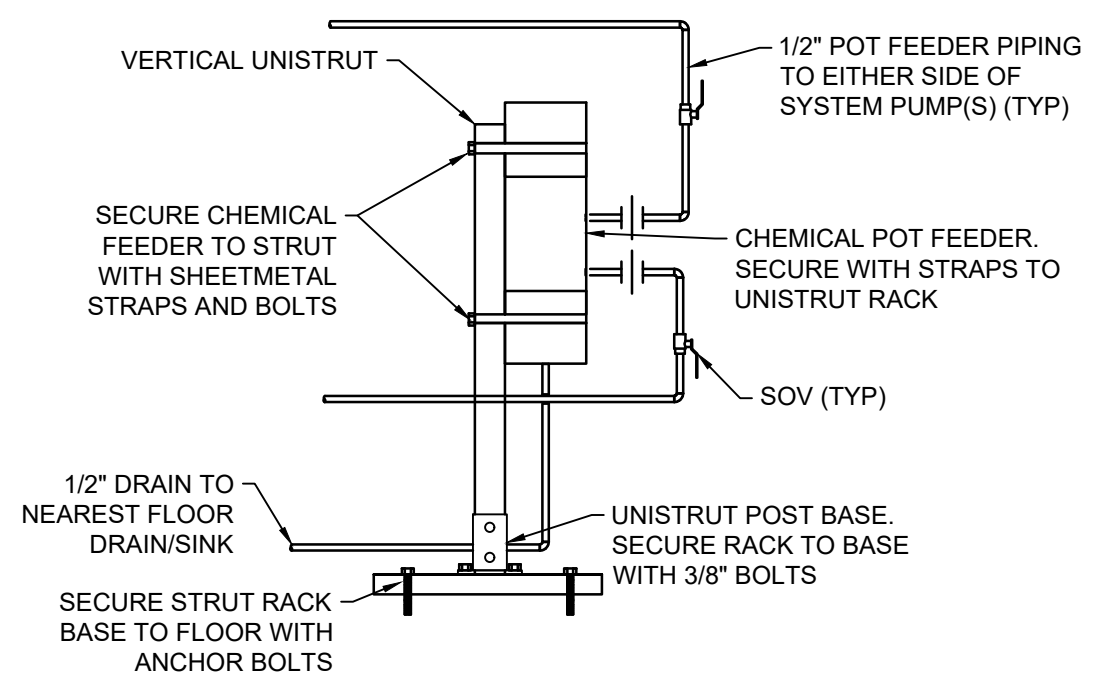
4 AIR TERMINAL UNIT REHEAT COIL - PIPING CONNECTIONS
SCALE: N.T.S.



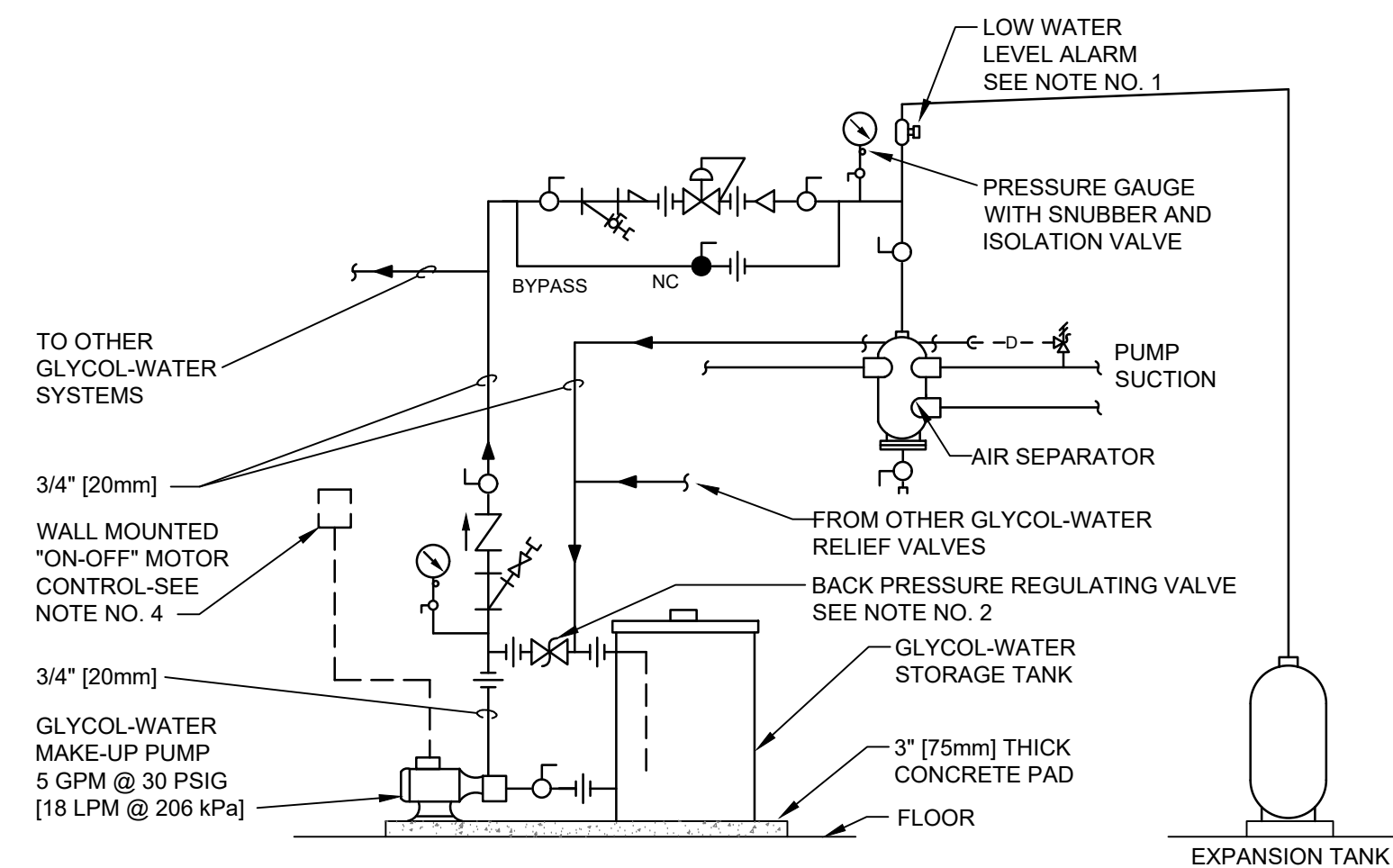
5 DUAL INLINE PUMP DETAIL
SCALE: N.T.S.



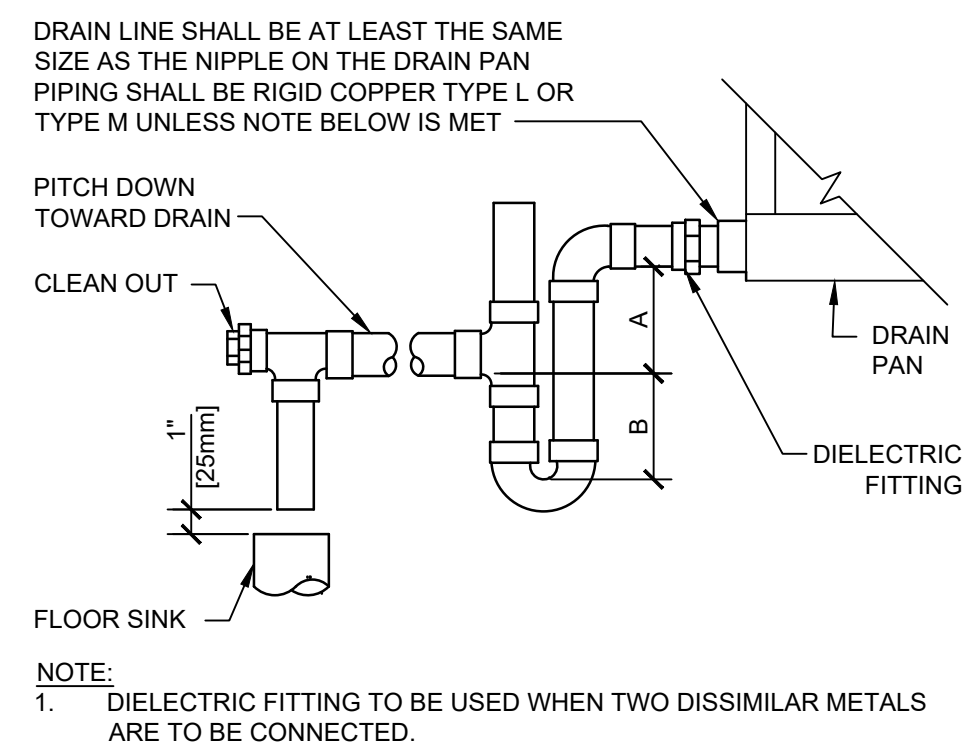
6 INLINE PUMP DETAIL
SCALE: N.T.S.



7 CHEMICAL FEEDER
SCALE: N.T.S.



8 GLYCOL MAKE-UP SYSTEM (PIPING AND CONTROLS)
SCALE: N.T.S.



9 AIR HANDLING UNIT DRAIN TRAP DETAIL
SCALE: N.T.S.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED Revisions:		CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 605.274.0880 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT/ENGINEERS: FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	
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