

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL DETAILS. MECHANICAL, PLUMBING AND SITE DRAWINGS CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIE-DOWNS.
- ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- ALL STRUCTURAL SHOP DRAWINGS TO BE REVIEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO SUBMITTAL TO CONTRACTING OFFICER FOR APPROVAL.
- THE DESIGN OF THE STRUCTURE SHOWN IN THESE CONSTRUCTION DOCUMENTS IS FOR THE ONE-TIME USE AT THE SPECIFIC SITE REFERENCED WITHIN THESE DRAWINGS.

DESIGN CODES:

- 2018 INTERNATIONAL BUILDING CODE.
- ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.
- AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- AIS S100-16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- SDI C-2017 STANDARD FOR COMPOSITE STEEL FLOOR DECK.
- SDI RD-2017 STANDARD FOR STEEL ROOF DECK.

DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS BASED ON A RISK CATEGORY IV:

ROOF (FUTURE FLOOR):	
SNOW LOAD	21 PSF + DRIFT
GROUND SNOW LOAD	25 PSF
SNOW EXPOSURE FACTOR	1.0
SNOW THERMAL FACTOR	1.0
SNOW IMPORTANCE FACTOR	1.2
DEAD LOAD	25 PSF
LIVE LOAD	20 PSF (REDUCIBLE)
FUTURE ROOF DEAD LOAD	25 PSF
FUTURE ROOF LIVE LOAD	20 PSF

FLOOR:	
DEAD LOAD	25 PSF
LIVE LOAD	80 PSF
FUTURE SURGICAL FLOOR LIVE LOAD	100 PSF
PARTITION LOAD	20 PSF
CORRIDORS (LIVE)	100 PSF
STAIRS (LIVE)	100 PSF

WIND:	
ULTIMATE WIND SPEED	124 MPH
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	0.18
COMPONENT AND CLADDING PRESSURES	SEE TABLE ON SHEET S004

SEISMIC:	
SEISMIC DESIGN CATEGORY	C
SITE CLASSIFICATION	D
SEISMIC IMPORTANCE FACTOR	1.5
MAPPED SPECTRAL RESPONSE COEFFICIENTS	
S _s = 0.072	
S ₁ = 0.045	
SEISMIC FORCE RESISTING SYSTEM	
RIGID DIAPHRAGM (CONCRETE SLAB ON COMPOSITE METAL DECK)	
CONCENTRICALLY BRACE FRAMES	
STEEL ORDINARY MOMENT FRAMES	0.039W
DESIGN BASE SHEAR	
SEISMIC RESPONSE COEFFICIENT	0.036
RESPONSE MODIFICATION COEFFICIENTS (R)	
STEEL ORDINARY CONCENTRICALLY BRACED FRAMES	3.25
STEEL ORDINARY MOMENT FRAMES	3.5
ANALYSIS PROCEDURE	
EQUIVALENT LATERAL FORCE PROCEDURE	

FORMWORK AND SHORING:

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 301 AND 307.

PLUMBING SLEEVES:

MINIMUM SLEEVE SPACING SHALL BE TWO DIAMETERS CENTER-TO-CENTER TO THE LARGER SLEEVE OR (P) CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO CONSTRUCTION SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE CONTRACTING OFFICER.

CONCRETE MIX DESIGN:

- SHALL BE MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:
 - 4,000 PSI - INTERIOR SLABS TOP METAL DECK
 - 4,000 PSI - ALL OTHER CONCRETE
- SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS PLACED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED AT ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. ALL SLABS SHALL BE CURED USING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE I AND SHALL HAVE A FLUOITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. ALL SUFFOED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDE SHALL NOT BE UTILIZED. OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE CONTRACTING OFFICER.
- CONCRETE SHALL UTILIZE TYPE III CEMENT AND SHALL HAVE A 25% MINIMUM FLY ASH CONTENT BY WEIGHT.
- COARSE AND FINE AGGREGATES SHALL COMPLY WITH ASTM C33 AND ACI 302.1, CURRENT VERSIONS.
- THE CONCRETE STRENGTHS SHOWN IN THE SECTION ABOVE AND IN THE SPECIFICATIONS ARE MINIMUM COMPRESSIVE STRENGTHS. THE CONTRACTING OFFICER SHALL DETERMINE IF THE CONCRETE IS ACCEPTABLE, OR TO BE REMOVED, OR TO RECEIVE SPECIAL CURING IF THE COMPRESSIVE STRENGTHS ARE LESS THAN SPECIFIED.
- ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL BE AIR ENTRAINED TO 5% TO 7%.
- WATER REDUCING AGENTS MAY BE USED IN THE CONCRETE MIX. PLASTICIZERS AND SUPER-PLASTICIZERS MAY BE USED ONLY WHEN WRITTEN PERMISSION OF THE CONTRACTING OFFICER IS GIVEN.
- NO SALTS OF ANY KIND MAY BE USED IN CONCRETE BEFORE OBTAINING THE CONTRACTING OFFICER'S WRITTEN PERMISSION FOR THEIR USE.
- AIR CONTENT OF TROWEL FINISHED FLOOR SLABS SHALL NOT EXCEED 3%.
- MAXIMUM WATER TO CEMENTitious MATERIAL FOR ALL CONCRETE SHALL NOT EXCEED 0.5 UNLESS NOTED OTHERWISE.
- SLUMP REQUIREMENTS (± 1"):
 - ELEVATED CONCRETE SLABS: 4"

CONCRETE TESTING:

- CONCRETE TESTING SHALL BE PAID FOR BY THE OWNER. TESTING LABORATORY SHALL PERFORM THE FOLLOWING TEST ON CAST-IN-PLACE CONCRETE:
 - ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
- ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS. A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY, REQUIRED CYLINDERS(S) QUANTITIES AND TEST AGES AS FOLLOWS:
 - AT 7 DAYS
 - AT 28 DAYS
- PROVIDE ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE CONTRACTING OFFICER. IF REQUIRED, 7 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.
- TESTING SHALL BE BASED UPON CONCRETE TAKEN AT POINT OF PLACEMENT.
- IN ADDITION TO TYPICAL TESTING REQUIREMENTS, SLUMP AND AIR CONTENT SAMPLES SHALL BE TAKEN AT BEGINNING OF FIRST TRUCK PRIOR TO ANY PLACEMENT AND REPEATED AT THE MIDDLE OF FIRST TRUCK. CONCRETE PLACEMENT SHALL NOT START IF INITIAL TEST(S) FAIL AND SHALL NOT CONTINUE OF TEST TAKEN AT MIDDLE OF FIRST LOAD FAILS.
- IF ANY SLUMP OR AIR CONTENT FAILS DURING PLACEMENT, TESTS SHALL BE IMMEDIATELY REPORTED AND RETAKEN. IF RETAKEN TESTS FAIL THEN ALL SUBSEQUENT LOADS MUST BE TESTED AT ARRIVAL AND TEST MUST SHOW COMPLIANCE PRIOR TO THE CONCRETE. IN THAT TRUCK BEING ALLOWED FOR USE ON PROJECT. ALL COSTS FOR ADDITIONAL TESTING SHALL BE CREDITED TO THE OWNER.

CONCRETE AND REINFORCING PLACEMENT:

- ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 301 AND ACI 117 EXCEPT AS MODIFIED BELOW.
- ALL REINFORCING STEEL TO BE ASTM A615, GRADE 60 (#4 AND LARGER), EXCEPT WHERE NOTED OTHERWISE. REINFORCING SHALL NOT BE WELDED.
- ALL REINFORCING STEEL BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST ACI MANUALS.
- LAP ALL REINFORCING SPICES IN CONCRETE A MINIMUM OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE (ON DRAWINGS (CLASS B SPLICE)).
- PROVIDE CORNER BARS OF SAME BAR DIAMETER AS SPECIFIED FOR THE WALL, BEAM OR FOOTING. PROVIDE MINIMUM OF 40 BAR DIAMETER LAP FOR ALL CORNER BARS, UNLESS NOTED OTHERWISE.
- WHERE SHOWN ON THE DRAWINGS, PROVIDE WELD PLATES, WELDMENTS, OR CONCRETE INSERTS FOR FASTENING AND SECURING OTHER COMPONENTS. CONCRETE INSERTS SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING THEM AND INSTALLED BY THE CONTRACTOR CASTING THE CONCRETE AROUND THEM. CLIP ANGLES SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING THEM.
- REINFORCING STEEL SHALL RECEIVE CONCRETE COVER AS FOLLOWS:

DESCRIPTION	MINIMUM COVER
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BARS	2"
#5 BARS OR SMALLER	1 1/2"
NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND, SLABS AND WALLS	
#11 BARS OR SMALLER	3/4"
#14 AND #18	1 1/2"
BEAMS AND COLUMNS	1 1/2"
SHELLS, FOLDED PLATE MEMBERS:	
NO. 6 BAR AND LARGER	3/4"
NO. 6 BAR, W31 OR D31 WIRE AND SMALLER	1/2"
PROVIDE TWO (2) #5S, ONE AT EACH FACE, UNLESS NOTED OTHERWISE, AROUND ALL OPENINGS GREATER THAN 12X12" IN CAST-IN-PLACE CONCRETE. EXTEND REINFORCING 2'-0" BEYOND OPENING IN BOTH DIRECTIONS. CONTACT CONTRACTING OFFICER FOR ALL OPENINGS GREATER THAN 12X12" FOR DESIGN.	
COLD WEATHER AND HOT WEATHER PROVISIONS OF ACI 308 AND 305 (CURRENT EDITIONS), RESPECTIVELY, SHALL BE MAINTAINED.	
PRIOR TO SCREEDING AN ELEVATED SLAB, CONCRETE SHALL BE UNFORMLY PLACED ON ALL (3) SPANS OF THE DECK TO A THICKNESS APPROXIMATELY EQUAL TO THE SPECIFIED SLAB THICKNESS AT EACH BEAM OR JOIST LINE.	
CONTRACTOR IS RESPONSIBLE FOR ESTIMATING CONCRETE QUANTITIES ON ELEVATED SLABS AND SHALL ACCOUNT FOR DEFLECTIONS IN THE FLOOR STRUCTURE.	
CONTRACTOR SHALL MAINTAIN A CONSTANT THICKNESS OVER THE ENTIRE ELEVATED SLAB. ELEVATED SLAB THICKNESS SHALL NOT BE 3/8" GREATER THAN OR 1/4" LESS THAN THE SPECIFIED THICKNESS.	
LASER SCREED OR OTHER SIMILARLY FUNCTIONING EQUIPMENT SHALL NOT BE PERMITTED FOR ELEVATED SLABS UNLESS AUTHORIZED BY ALBERTSON ENGINEERING INC.	

CHEMICAL ANCHORS:

SHALL BE A POLYMER INJECTION SYSTEM SUCH AS HILTI HY-200, OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURERS REPRESENTATIVE.

ANCHOR BOLTS:

- SHALL BE A36 THREADED ROD. PROVIDE HOT DIP GALVANIZE FINISH ON ALL ANCHOR BOLTS PERMANENTLY EXPOSED TO EXTERIOR OR IN CONTACT WITH PRESSURE TREATED LUMBER.
- THREADED ROD EMBEDMENT DEPTH SPECIFIED IN THE DRAWINGS SHALL BE FROM TOP OF CONCRETE TO TOP OF DOUBLE NUT.

STRUCTURAL STEEL:

- STEEL SHALL CONFORM TO ASTM A992 (Fy=50 KSI) FOR ALL W-SHAPES, AND ASTM A36 (Fy=36 KSI) FOR ALL OTHER MISCELLANEOUS SHAPES AND PLATES. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B OR C (Fy=46 KSI) MINI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, TYPE "E" OR "S" (Fy=35 KSI).
- STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZED IS INDICATED ON THE DRAWINGS.
- WELDS FOR ALL EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH UNLESS NOTED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL CONSIST OF 3/4" DIA. (MIN.) F1662 HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
 - FAILURE OF A BOLT OR NUT DURING INSTALLATION PROCESS RESULTING IN A CRACK IN THE BOLT OR NUT SHALL BE GROUNDS FOR REJECTION OF ALL THE FAILED BOLTS OR NUTS COMING FROM THE SAME LOT. IF THE DOCUMENTATION OF THE LOT OF ORIGIN FOR THE FAILED NUT(S) OR BOLT(S) DOES NOT EXIST, OR IS NOT PROVIDED, THEN ALL OF THE BOLT(S) OR NUT(S) SHALL BE ASSUMED TO COME FROM THE LOT CONTAINING THE FAILED NUT(S) OR BOLT(S).
- CONTRACTOR SHALL MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- ANCHOR BOLT HOLES IN STRUCTURAL STEEL SHALL BE OVERSIZED NO MORE THAN 1/8" MAX, UNLESS NOTED OTHERWISE.

COMPOSITE STEEL FORM DECK:

- COMPOSITE FORM DECK SHALL BE 2" DEEP, 16 GAUGE 680 CORRUGATED STEEL COMPOSITE DECK (2VL16) AND SHALL CONFORM TO THE PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR COMPOSITE STEEL DECK.
- POUR STOPS AND GIRDER FILLERS: WELD STEEL SHEET POUR STOPS AND GIRDER FILLERS TO SUPPORTING STRUCTURE ACCORDING TO SDI RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
- FLOOR DECK CLOSURES: WELD STEEL SHEET COLUMN CLOSURES, CELL CLOSURES, AND Z-CLOSURES TO DECK, ACCORDING TO SDI RECOMMENDATIONS, TO PROVIDE TIGHT FITTING CLOSURES AT OPEN ENDS OF RBBS AND SIDES OF DECKING. WELD COVER PLATES AT CHANGES IN DIRECTION OF FLOOR DECK PANELS, UNLESS OTHERWISE INDICATED.
- DECKING SHALL HAVE MINIMUM OF (3) SPANS.

COLD FORMED LIGHT GAUGE STRUCTURAL STEEL:

- STEEL STUD, TRACK, AND LINTEL MEMBERS SHALL BE OF THE TYPE SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS AND SHALL CONFORM TO ASTM A653 STRUCTURAL QUALITY GRADE 33 FOR 18 GAUGE THICKNESS OR LESS, AND ASTM A653 STRUCTURAL QUALITY GRADE 33, CLASS 1 FOR 16 GAUGE OR GREATER. MEMBERS SHALL HAVE HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM A924, CLASS G60.
- ALL FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED TO FIT SQUARELY AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY JOINED.
- JOINING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDED. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED.
- ATTACHMENT OF COLLATERAL MATERIALS TO STEEL MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR HARDENED SCREW SHANK NAILS. METAL LATH MAY ALSO BE CONNECTED TO STEEL BY STAPLES OR OTHER FASTENERS, IF APPROVED BY LOCAL BUILDING CODES.
- STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACKS.

SPECIAL INSPECTION AND TESTING:

- SEE DETAILED INSPECTION AND TESTING REQUIREMENTS AS INDICATED ON SHEET S-002.

PROVISIONS FOR FUTURE EXPANSION:

- FRAMING ALONG GRIDS 'A', & 'A' (GRIDS 2.3 TO 3.5), GRID 'B' (GRIDS 2' TO 7'), GRIDS 'C' & 'D' (GRIDS 2.7 TO 7'), GRID 'F' (GRIDS 2.7 TO 10'), AND GRID 'S' (GRIDS 7' TO 10') HAVE BEEN DESIGNED TO ACCOMMODATE THE ADDITION OF ONE FLOOR, FUTURE SURGICAL LEVEL & ROOF ABOVE THE SPS ABOVE LEVEL (D). SEE "DESIGN LOADS" SECTION ON THIS SHEET FOR LOADS THAT CURRENT STRUCTURE HAS BEEN DESIGNED TO ACCOMMODATE A FUTURE ADDITION.

PHOTO DOCUMENTATION OF CONSTRUCTION OF STRUCTURAL ITEMS		
1. CONTRACTOR SHALL PROVIDE SETS OF PERIODIC DIGITAL PHOTOGRAPHS OF THE CONSTRUCTION OF THE STRUCTURAL PORTIONS OF THE CONSTRUCTION PROJECT TO THE CONTRACTING OFFICER FOR APPROVAL. PHOTOGRAPHS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER WITHIN 2 WORKING DAYS OF WHEN THEY WERE TAKEN. THE MINIMUM SETS OF PHOTOGRAPHS TO BE TAKEN INCLUDE THE FOLLOWING:		
EVENT	OCCURRENCES	ITEMS TO DOCUMENT
OVERALL CONSTRUCTION PROGRESS	MINIMUM OF ONCE WEEKLY DURING CONSTRUCTION. CAN INCLUDE PHOTOS FROM OTHER REQUIRED AREAS.	GENERAL PROGRESSION OF CONSTRUCTION PROJECT; SET OF PHOTOGRAPHS TO BE SUFFICIENT TO SHOW MAJOR ASPECTS OF CONSTRUCTION, WITH A MINIMUM OF 8 PHOTOGRAPHS PER SET.
CONCRETE POURS	PRIOR TO EACH CONCRETE POUR	CONDITION OF FORM WORK, PLACEMENT OF CONCRETE REINFORCING, METHODS USED TO SECURE REINFORCING IN CORRECT LOCATIONS.
CONCRETE MASONRY CONSTRUCTION	PRIOR TO GROUTING	PLACEMENT OF REINFORCING AND METHODS USED TO SECURE REINFORCING IN CORRECT LOCATIONS.
STEEL CONSTRUCTION	PRIOR TO ENCLOSURE	TYPICAL CONNECTIONS.
MAJOR MILESTONES		
2. ALL PHOTOGRAPHS TAKEN SHALL CLEARLY SHOW THE LOCATIONS AT WHICH THE PHOTOGRAPHS ARE BEING TAKEN. TYPICALLY THE LOCATIONS ARE SELF-EVIDENT, BUT FOR THOSE CASES WHERE THEY ARE NOT, CONTRACTOR TO INCLUDE SOME METHOD OF DOCUMENTING THE LOCATIONS. THE PHOTOGRAPHS SUBMITTED MAY BE EITHER A HARD COPY OR ELECTRONIC FORMAT. HARD COPIES OF THE PHOTOGRAPHS ARE NOT REQUIRED, AND IT IS STRONGLY PREFERRED THAT THE PHOTOGRAPHS BE E-MAILED TO THE CONTRACTING OFFICER.		

SYMBOLS LEGEND

STRUCTURAL HATCH PATTERNS

INDEX TO STRUCTURAL SHEETS

SHT NO	SHEET NAME
S-001	STRUCTURAL GENERAL NOTES
S-002	IBC INSPECTION TABLES
S-003	SNOW DRIFT AND WIND UPLIFT PLANS
S-102	LEVEL (02) INTERSTITIAL FRAMING PLAN LEVEL - ALTERNATIVE BID #2 & #5
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S-103.1	LEVEL (03) FLOOR FRAMING PLAN - ALTERNATIVE BID #2 & #5
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S-104.1	LEVEL (04) ROOF FRAMING PLAN - ALTERNATIVE BID #2 & #5
S-401	LATERAL FRAMING ELEVATIONS
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S-601	STANDARD DETAILS / SCHEDULE
S-601.1	STANDARD DETAILS / SCHEDULES - ALTERNATIVE BID #2 & #5

SHEET IDENTIFICATION	
DISCIPLINE CHARACTER	S - 501
MODIFIER CHARACTER	A A N N N
SHEET SEQUENCE NUMBER 01-99	
SHEET TYPE DESIGNATOR	

SHEET TYPE DESIGNATORS	
0	GENERAL (SYMBOLS, LEGEND, NOTES, ETC)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (VERTICAL VIEWS)
3	SECTIONS (SECTIONAL VIEWS)
4	LARGE SCALE VIEWS (PLANS, ELEV, OR SECTIONS, NOT DETAIL)
5	DETAILS
6	SCHEDULES AND DIAGRAMMS
7	USER DEFINED
8	USER DEFINED
9	3-D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS)

COORDINATE SYSTEM

1	2	3	4	5
D3	D4			
C3	C4	C5		
A1	A2	A3	A4	A5

SYMBOLS USED AS ABBREVIATIONS:		MOST COMMONLY USED STRUCTURAL ABBREVIATIONS		** NOT LISTED IN THE NCS MANUAL	
&	AND	*BOC	BOTTOM OF CONCRETE	DIM	DIMENSION
LL	ANGLE	*BOF	BOTTOM OF FOOTING	DIR	DIRECTION
@	DOUBLE ANGLE	*BRG	BEARING	DIV	DIVIDE, DIVISION
CL	AT	*BRK	BRICK	DKG	DECKING
CL	CENTER LINE	*BSMT	BASEMENT	DL	DEAD LOAD
J	PARALLEL	*BTWN	BETWEEN	DOLG FR	DOUGLAS FIR
p	PENNY (NAIL)	*BUILT-UP	BUILT-UP	DR	DRAIN
P	PERPENDICULAR	(C)	CHANNEL	DT	DRAIN TILE
#	PLATE	CAM/(-)	CAMBER	DWG	DRAWING(S)
#	POUND OR NUMBER	CB	CARRIAGE BOLT	(E)	EXISTING (SEE EXIST)
Ø	ROUND OR DIAMETER	CJ FT	CUBIC FEET OR FOOT	EA	EACH
ABBREVIATIONS:		*CHFR	CHAMFER	*EAB	EPOXY ANCHOR BOLT
AE	ARCHITECT/ENGINEER	*CPC	CAST-IN-PLACE CONCRETE	EF	EACH FACE
AB	ANCHOR BOLT/ROD	*CJ	CAST-IN-PLACE CONCRETE	EL	ELEVATION
ABV	ABOVE	CL	CENTER LINE	*EMB	EMBED (ED)
ADD	ADDITIONAL	CLG	CLEAR, CLEARANCE	EPS	EXPANDED POLYSTYRENE
ADDM	ADDENDUM	CMU	CONCRETE MASONRY UNIT	EQU	EQUIPMENT
ADH	ADHESIVE	CO	CONCRETE	EQ	EQUAL
ADJ	ADJUSTABLE, ADJACENT, ADJOINING	CON	CONCRETE	EST	ESTIMATE
AFF	ABOVE FINISH FLOOR	CONN	CONNECT (ION)	EXIST	EXISTING
AGR	AGGREGATE	CONSTR	CONSTRUCTION	EXP	EXPANSION, EXPOSED
AHR	ANCHOR, ANCHORAGE	CONT	CONTINUOUS, CONTINUE	EXP BT	EXPANSION BOLT
ALT	ALTERNATE	CONTR	CONTRACT (OR)	EXT	EXTERIOR, EXTERNAL
APPROX	APPROXIMATE	COORD	COORDINATE	(F)	FLOOR DRAIN
*AR	ANCHOR ROD	CTR	CENTER	FF	FLOOR FINISH
ARCH	ARCHITECT (URAL)	CY	CUBIC	*FND	FOUNDATION
BEV	BEVELED	CY YD	CUBIC YARD	FF EL	FINISH FLOOR ELEVATION
BFF	BELOW FINISH FLOOR	D	DEEP, DEPTH, PENNY (NAIL)	FIN	FINISH (FIN)
*BL	BRICK LEAVE	DBL	DOUBLE	*FLG	FLANGE
BLDG	BUILDING	DEMO	DEMOLITION, DEMOLISH	FLR	FLOOR, FLOOR (ING)
BLW	BELOW	DET	DETAIL	*FOM	FACE OF CONCRETE
*BLK	BLOCK (ING)	DIA	DIAMETER	FOM	FACE OF MASONRY
BM	BEAM	DIAG	DIAGONAL, DIAGRAM	FOS	FACE OF STUD
BOT	BOTTOM			*FOW	FACE OF WALL
*BO	BOTTOM OF			*FS	FACE OF WALL

CONSULTANTS:

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Albertson Engineering Inc.

	FARRIS ENGINEERING
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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 ARCHITECTURALLY 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.

NOTE:

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

- 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/SF1 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 CUT 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.

(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.



Department of
Veterans Affairs

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 26).

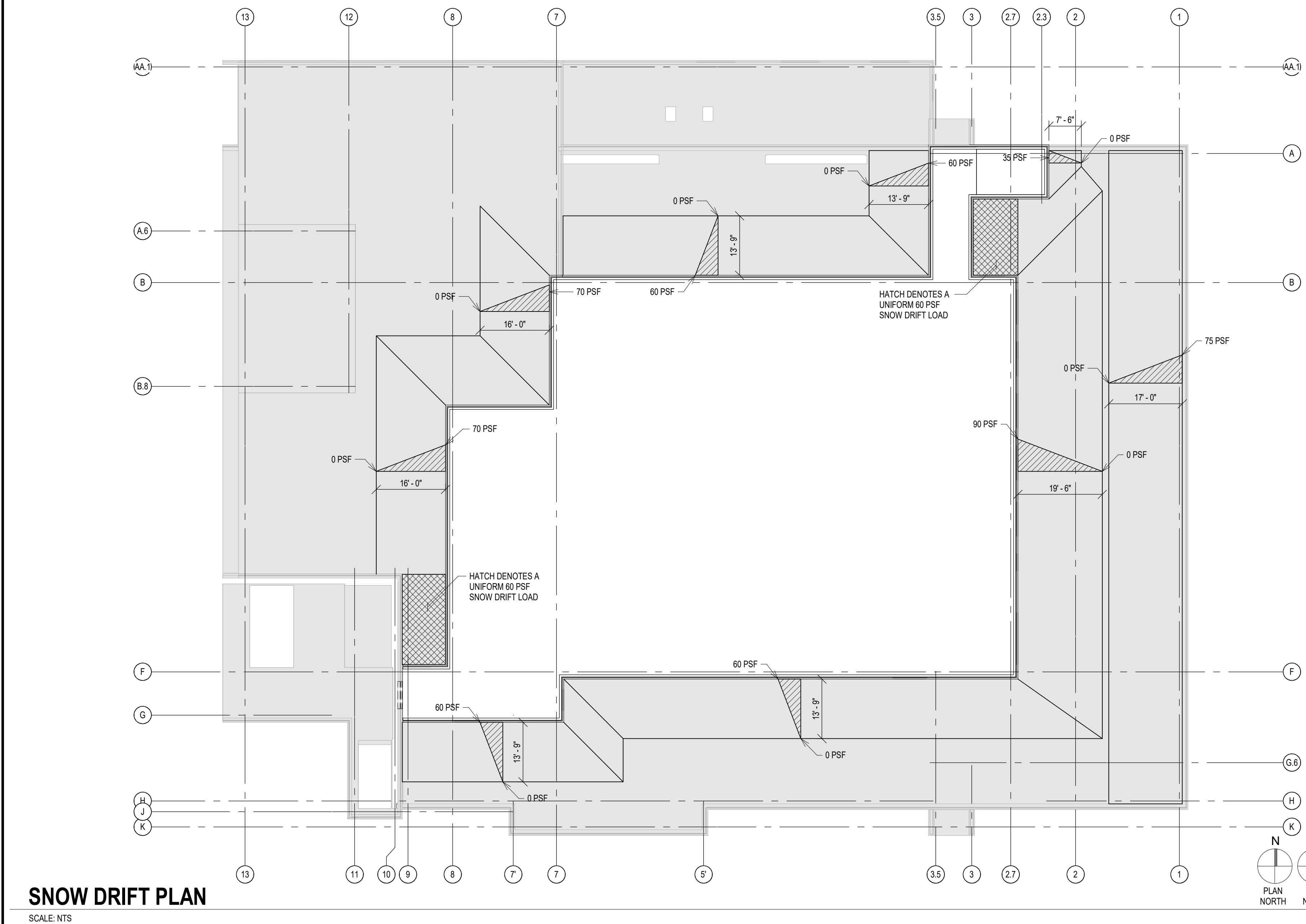
SCHEDULES

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

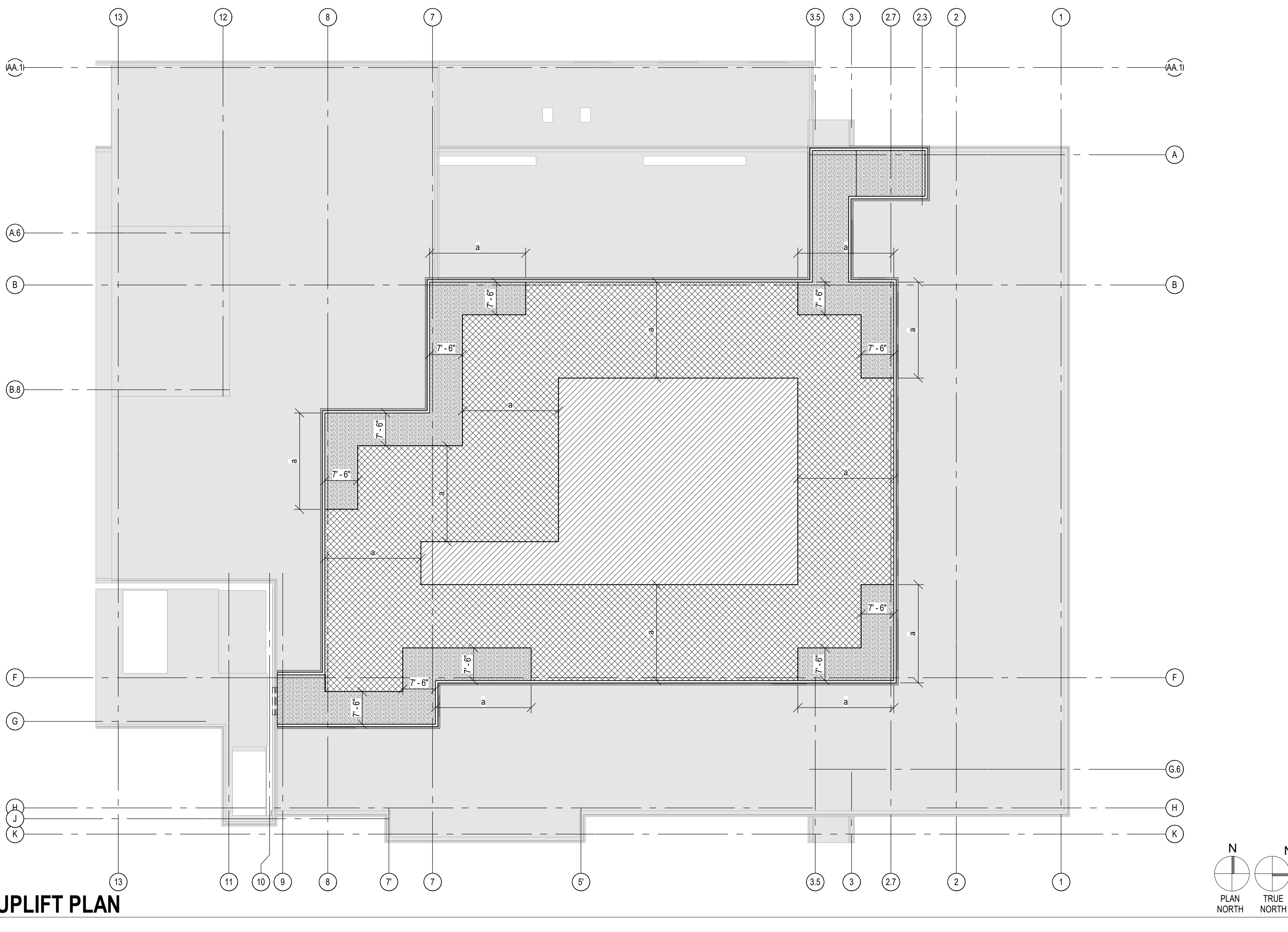
ADDITIONAL REMARKS:
WIND PRESSURES SHOWN ARE ULTIMATE PRESSURE VALUES FROM ASCE 7-16. TO OBTAIN NOMINAL (SERVICE LEVEL) WIND PRESSURES, MULTIPLY TABLE VALUE BY 0.6.

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

Revisions:

Date

CONSULTANTS:

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Drawing Title

SNOW DRIFT AND WIND UPLIFT PLANS

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-003

Dwg. 85 of 193

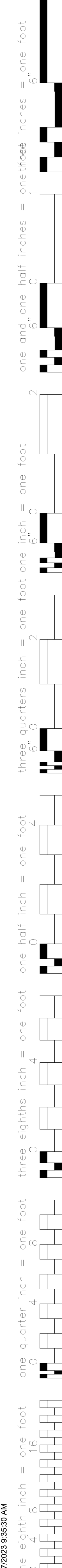
Office of Construction and Facilities Management

Department of Veterans Affairs

CONSTRUCTION DOCUMENTS

VA FORM 08-6231

5/17/2023 9:35:26 AM



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 10' - 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 DETAIL.
 - 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 DETAIL.
 - 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 SP3S STRUCTURAL FRAMING, HAVE BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL), AND ROOF ABOVE THE CURRENT SP3S FLOOR LEVEL. (3). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.
- **TRB** 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 FIELD WELD SHALL BE PROVIDED.

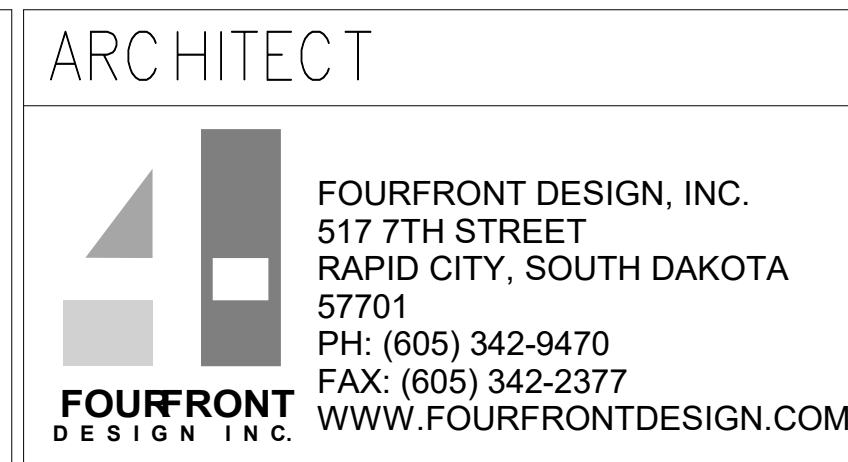
SCALE: 1/8" = 1'-0" REFERENCED FROM:

CONSULTANTS:			
 TerraSite Design Civil Engineering • Landmark • Environmental Planning	TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736	 Albertson Engineering Inc.	ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880
 FARRIS ENGINEERING Geology • Environmental • Survey • Construction • Planning FE# 182043	FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		

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ARCHITECT



FOURFRONT
DESIGN INC.

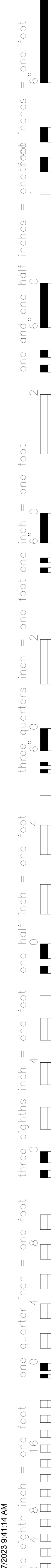
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16.2330.A08

S-102



Department of
Veterans Affairs



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 10' - 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 SP3S STRUCTURAL FRAMING, HAVE BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL), AND ROOF ABOVE THE CURRENT SP3S FLOOR LEVEL. (3). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.
- **TRB** DENOTES EXISTING COMPOSITE STEEL BEAM THAT SHALL 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 FIELD WELD SHALL BE PROVIDED.

INDICATES JAMB COLUMN WITH POST-INSTALLED ANCHORS, SEE LINTEL SCHEDULE AND DIAGRAMS FOR EMBED PLATE AND ANCHOR REQUIREMENTS ON SHEET SERIES S-6

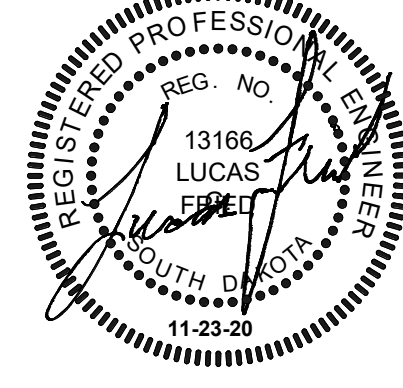
SCALE: 1/8" = 1'-0" REFERENCED FROM:

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Approved: Project Director

Omaha VA Medical Center

16.2330.A08

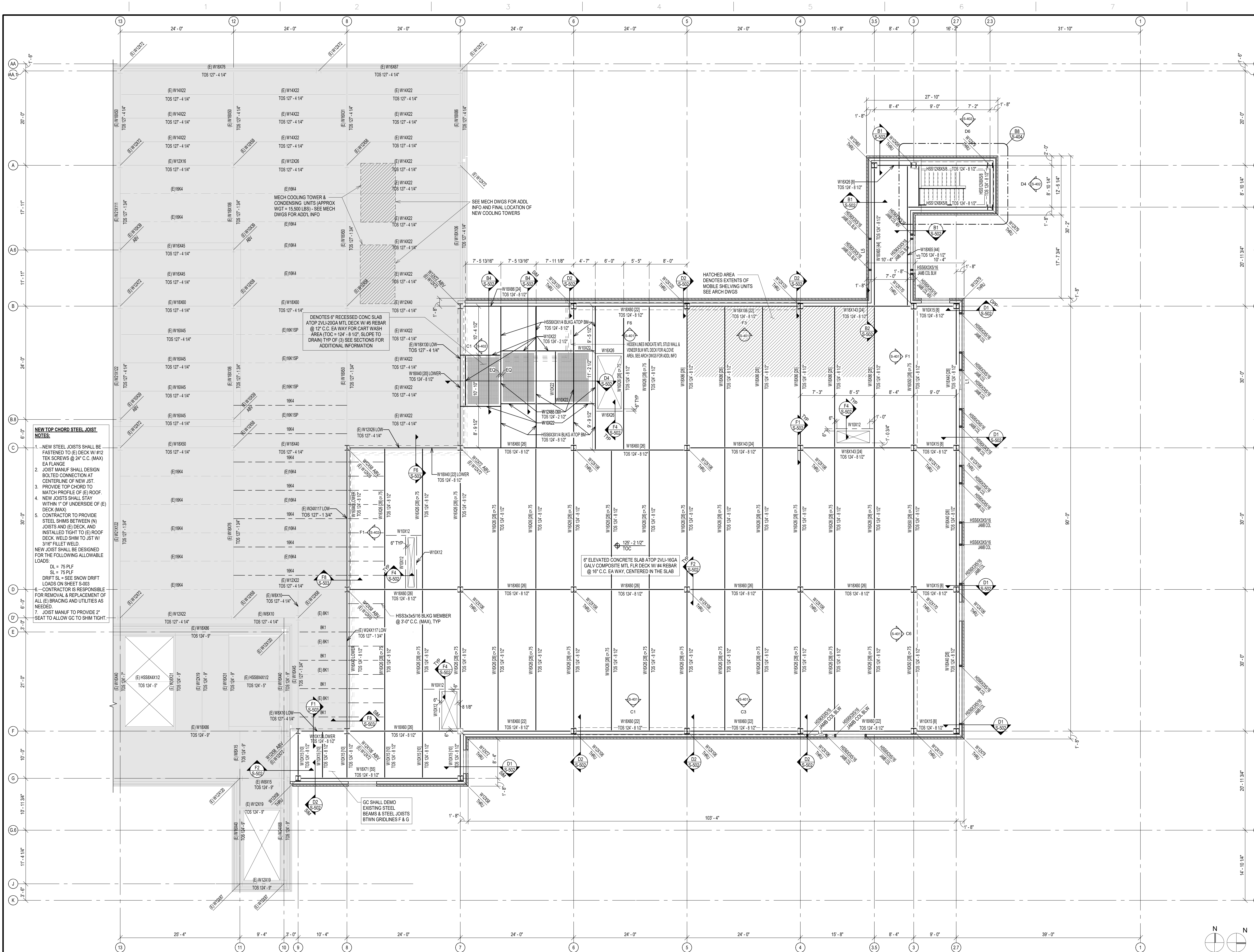
Location 4101 Woolworth Ave #4199
Omaha, NE 68105

MDR

Drawing Number
S-102 1

Dwg. 87 of 193

Department of
Veterans Affairs



- ### 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 ITEM(S).
 - 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.
- 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

Project Title		Project Number	
Design/Construct Sterile Processing Service- Omaha VA Medical Center		16.2330.A08	
Building Number		25	
Location		Drawing Number	
4101 Woolworth Ave #4199 Omaha, NE 68105		S-103	
Date	Checked	Drawn	Dwg. 88 of 193
11/23/2020	LGF	MDR	

Office of Construction and Facilities Management
Department of Veterans Affairs

LEVEL (03) SPS ADDITION FLOOR FRAMING PLAN

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

REFERENCED FROM:

CONSULTANTS:

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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. 88 of 193

Office of Construction and Facilities Management
Department of Veterans Affairs

5/17/2023 9:35:34 AM
VA FORM 08-6231

FLOR FRAMING PLAN NOTES

- SEE SHEET SERIES S-0/F FOR STRUCTURAL GENERAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS FOR ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFERS TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 10' - 0" (MAIN FLOOR) + CIVIL ELEVATION 12M-5.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
- **TOP OF SLAB (TOS) ELEVATION = 10' - 0" ± 1/2"** UNLESS NOTED OR DETAILLED OTHERWISE. ELEVATIONS ARE AT CENTERLINE OF JOINT OR BEARING, CAMBER BEAMS WERE INDICATED.
- ALL BEAM TO BEAM CONNECTIONS SHALL BE DOUBLE ANGLE CONNECTIONS. SEE DOUBLE ANGLE CONNECTION SCHEDULE ON SHEET SERIES S8, UNLESS OTHERWISE NOTED OR DETAILLED.
- 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 DETAILLED.
- ALL COMPOSITE BEAMS SHALL BE EVENLY SPACED WITHIN MAIN BAYS (APPROXIMATELY 8' - 0") UNLESS NOTED OTHERWISE.
- COMPOSITE FORM DECKING SHALL BE 2x11/8GA (GALV) METAL DECKING, UNLESS NOTED OR DETAILLED OTHERWISE. DECK SHALL HAVE A MINIMUM OF 10 SPANS (IF 10 SPANS IS NOT ACHIEVABLE, ONE SPAN OVER 9' - 0" SHALL BE SHOWN BEFORE POURING CONCRETE SLAB).
- COMPOSITE FORM DECKING SHALL BE ATTACHED TO SUPPORTING BEAMS W/ 3/4" x 4 1/2" PLASTIC W/ 2" SPACING (AS DETECTED) IN ON EACH BAY (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 SIDE LAP FASTENERS (WELDED) PER SPAN.
- "C" = "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 OPENING 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 CONNECTION JOINTS MUST BE ON CENTERLINE OF BEAMS. TYPICAL REINFORCING SHALL PASS THRU THE CONNECTION JOINT.
- FOR METAL STUD WALL REQUIREMENTS, SEE CORRESPONDING SECTIONS.
- SEE SHEET SERIES S6 FOR METAL STUD LEVEL SCHEDULE.
- NEW SP STRUCTURAL FRAMING HAS BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL) AND ROOF ABOVE THE CURRENT SP FLOOR (LEVEL 0). 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 LOADS 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 JOIST, JOISTS BETWEEN GIRDLES & 12.
- AT DECK EDGE ANGLE SPACE LOCATIONS, A 3/16" FULL LENGTH FILLET WELD SHALL BE PROVIDED.

Office of
Construction
and Facilities
Management

NEW TOP CHORD STEEL JOIST NOTES:

1. NEW STEEL JOISTS SHALL BE FASTENED TO (E) DECK W/ #12 TEK SCREWS @ 24" OC (MAX) EA FLANGE.
2. JOIST MANUF. SHALL DESIGN BOLTED CONNECTION AT CENTERLINE OF NEW JST.
3. PROVIDE TOP CHORD TO MATCH PROFILE OF (E) ROOF.
4. NEW JOISTS SHALL STAY WITHIN 1" OF UNDERSIDE OF (E) DECK (MAX).
5. CONTRACTOR TO PROVIDE STEEL SHIMS BETWEEN (N) JOISTS AND (E) DECK, AND INSTALLED TIGHT TO (E) ROOF DECK. WELD JOINTS TO JST W/ 3/16" FILLET WELD.

NEW JOIST SHALL BE DESIGNED FOR THE FOLLOWING ALLOWABLE LOADS:
DL = 75 PLF
SL = 75 PLF
DRIFT SL = SEE SNOW DRIFT LOADS ON SHEET S-003

6. CONTRACTOR IS RESPONSIBLE FOR REMOVAL & REPLACEMENT OF ALL (E) BRACING AND UTILITIES AS NEEDED.

7. JOIST MANUF. TO PROVIDE 2" SEAT TO ALLOW GC TO SHIM TIGHT.

HATCHED AREA DENOTES EXTENTS OF MOBILE SHELVING UNITS. SEE ARCH DWGS.

GC SHALL DEMO EXISTING STEEL BEAMS & STEEL JOISTS BTWN GRIDLINES F & G

6" ELEVATED CONCRETE SLAB ATOP 2VLH-16GA GALV COMPOSITE MTL FLR DECK W/ #4 REBAR @ 18" OC EA-WAY, CENTERED IN THE SLAB

DENOTES 6" RECESSED CONC SLAB ATOP 2VLH-20GA MTL DECK W/ #5 REBAR @ 12" OC EA-WAY FOR CART WASH AREA (TOC = 124'-8 1/2"; SLOPE TO DRAIN) TYPE OF (S) SEE SECTIONS FOR ADDITIONAL INFORMATION

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

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WWW.FOURFRONTDESIGN.COM

Approved: Project Director

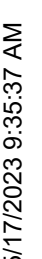
Omaha VA Medical Center

Location	4101 Woolworth Ave #4199 Omaha, NE 68105
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Building Number	25
Drawing Number	S 103 1

S-103.1

Dwg. 89 of 193

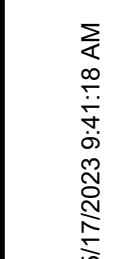


S-104 SCALE: 1/8" = 1'-0" REFERENCED FROM

CONSULTANTS:		
 TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736	 Albertson Engineering Inc.	ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880
 d4 Engineering, Inc. 1000 S. 10TH AVE., SUITE 100 SIOUX FALLS, SD 57104 PH: (605) 336-1100	 FARRIS ENGINEERING Oneida & Jackson Avenues Sioux Falls, SD 57104 PH: (605) 336-2443	FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900



Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management  Department of Veterans Affairs
LEVEL (04) ROOF FRAMING PLAN		Design/Construct Sterile Processing Service- Omaha VA Medical Center		16.2330.A08		
				Building Number		
				25		
Approved: Project Director		Location		Drawing Number		
Omaha VA Medical Center		4101 Woolworth Ave #4199 Omaha, NE 68105		S-104		
		Date	Checked	Drawn		
		11/23/2020	LGF	MDR		Dwg. 90 of 193



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 3/4" UNLESS NOTED OR DETAILED OTHERWISE. ELEVATIONS ARE AT CENTERLINE OF COLUMN OR BEARING, CAME 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 WITH MAIN BAYS (APPROXIMATELY 9' - 0") UNLESS NOTED OTHERWISE.

COMPOSITE FORM DECKING SHALL BE 2 1/2 HIGHA (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 SHORDED BEFORE PLACING CONCRETE SLAB.

COMPOSITE FORM DECKING SHALL BE ATTACHED TO SUPPORTING BEAMS W/ 3/4" x 1 1/2" AUTOMATIC WELDED STOPS AS DENOTED (X) ON EACH BEAM (EVENLY SPACED) ALONG LENGTH OF BEAM. IF NO STUDS ARE PRESENT, ALLOW BEAM DECKING SHALL BE ATTACHED TO STEEL BEAM W/ 5/8" PIVOT LUG IN A 3/64 PART. PROVIDE 10 SIDELAP FASTENERS (WELDED) PER SPAN.

"X" = "X" INDICATED UPWARD CAME 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 SUPPORTING BAYS. SEE SHEET SERIES S6.

BEAMS SHALL BE EQUALLY SPACED BETWEEN EDGING BAYS UNLESS OTHERWISE NOTED OR DIMENSIONED.

MAINTAIN MINIMUM SLAB THICKNESS INDICATED AT ALL LOCATIONS UNLESS OTHERWISE NOTED OTHERWISE. VERIFY DRAIN PLACEMENT OPERATIONS. SLAB CONNECTION 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 UNTEEL SCHEDULE.

NEW SP STRUCTURAL FRAMING HAS BEEN DESIGNED TO ACCOMMODATE A FUTURE FLOOR (SURGICAL LEVEL) AND ROOF ABOVE THE CURRENT SP FLOOR (LEVEL 0). SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION IN REGARDS TO PROVISIONS FOR FUTURE EXPANSION.

FRAMING SHOWN BETWEEN GRIDLINES 12 & 13 AND A.6 & B.8 DENOTES EXISTING PENTHOUSE FLOOR FRAMING FROM 2005 CIVIL 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 SPACE LOCATIONS, A 3/16" FILL WELD SHALL BE PROVIDED.

LIB 6000 INDICATES LATERAL BRACED FRAMING. SEE LATERAL BRACE ELEVATIONS AND DETAILS OF SHEET SERIES S4.

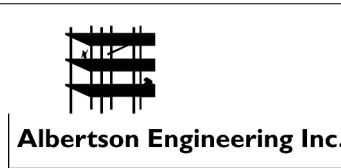
INDICATES MOMENT CONNECTION

CONSTRUCTION DOCUMENTS

S-104.1 SCALE: 1/8" = 1'-0" REFERENCED FROM

COMPLIANCE REVIEW INCLUDED	2/23/2024
Revisions:	Date

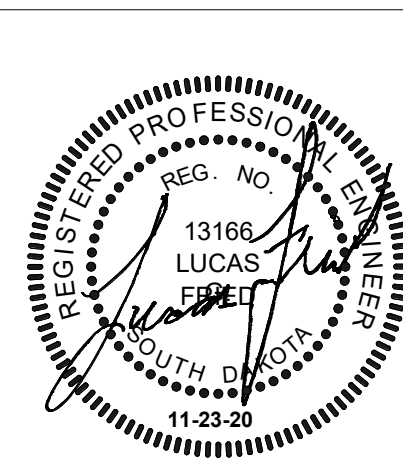
 TERRASITE DESIGN
1635 DEADWOOD AVENUE
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ALBERTSON ENGINEERING, INC.
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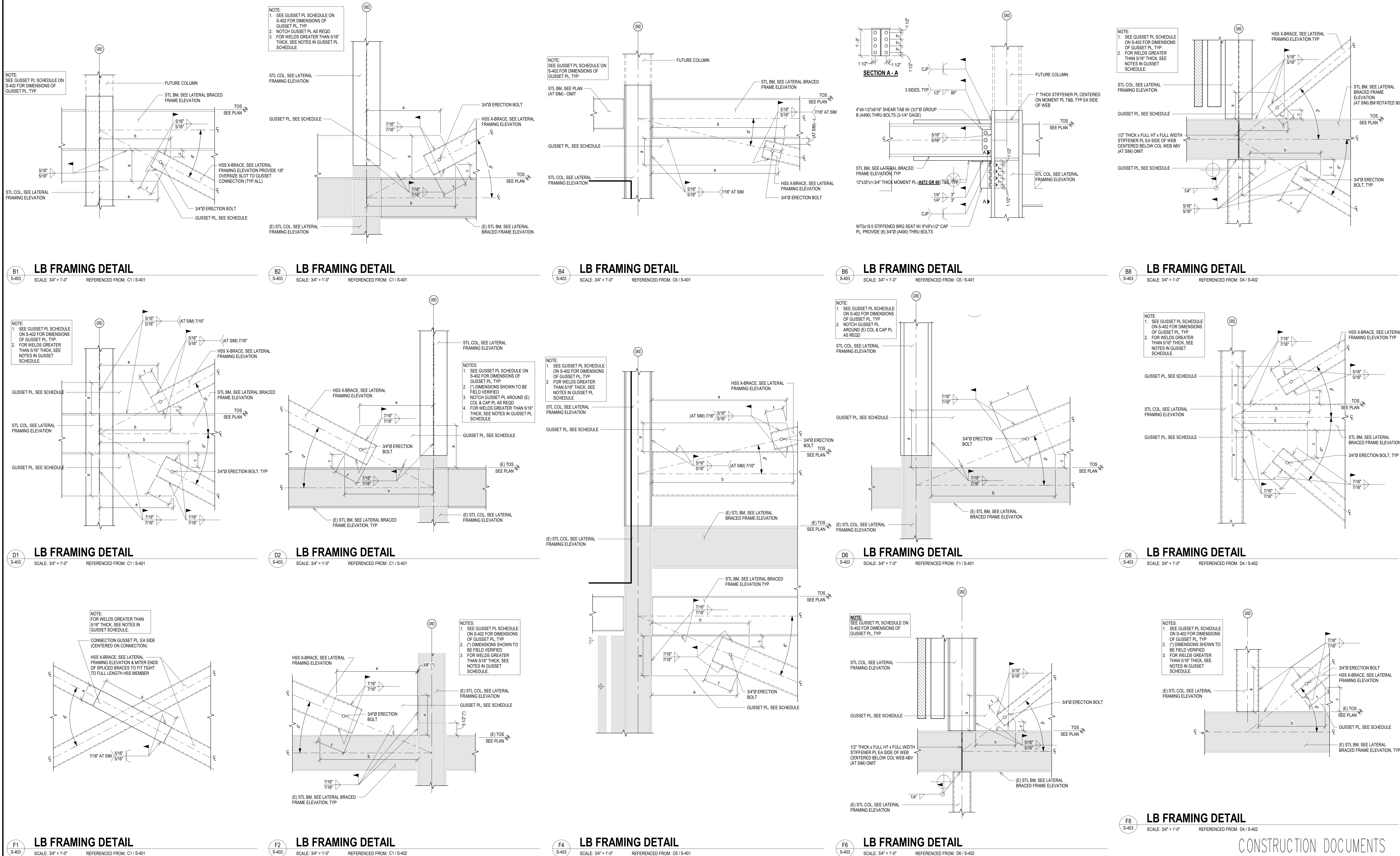


FOURFRONT
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16.2330.A08

Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management
LEVEL (04) ROOF FRAMING PLAN - ALTERNATIVE BID #2 & #5		Design/Construct Sterile Processing Service- Omaha VA Medical Center		16.2330.A08		
Approved: Project Director		Location		Building Number		25
Omaha VA Medical Center		4101 Woolworth Ave #4199 Omaha, NE 68105		Drawing Number		
		Date	Checked	Drawn	S-104.1	
		11/23/2020	LGF	MDR	Dwg. 91 of 193	
						 Department of Veterans Affairs

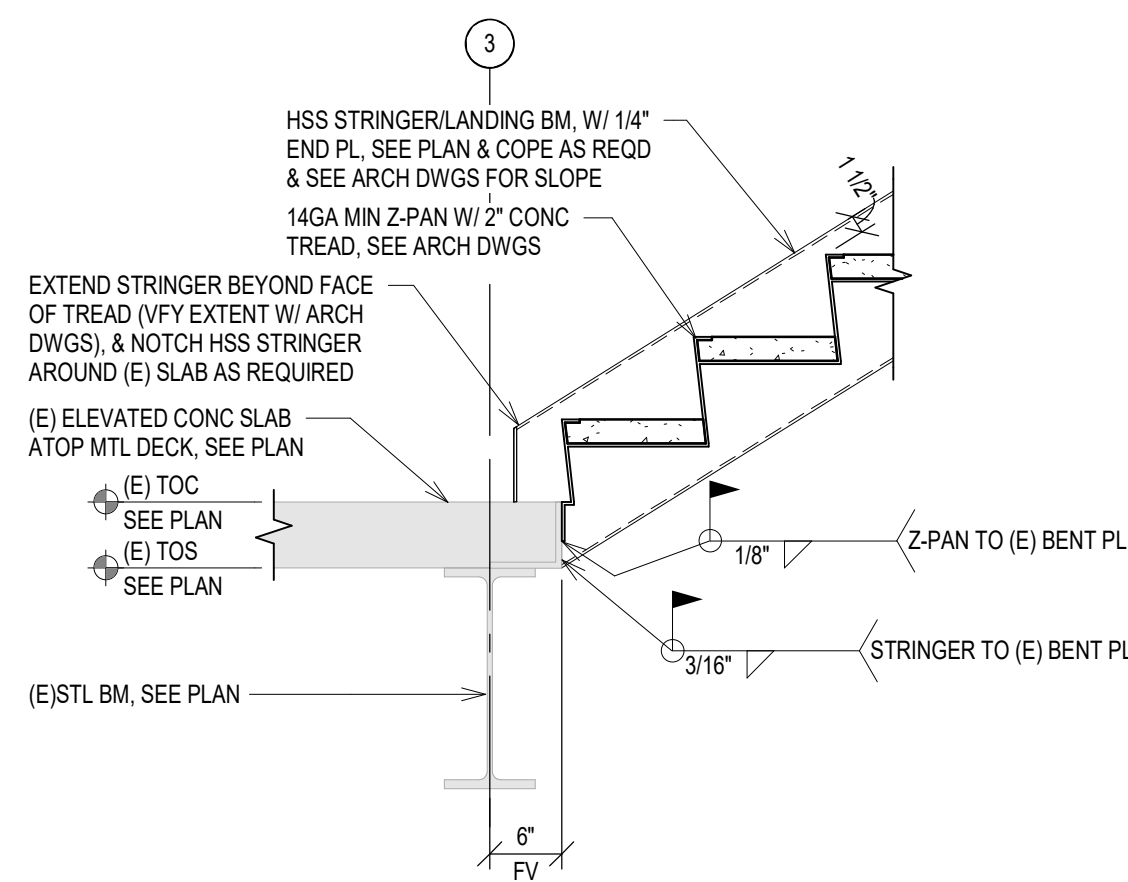


F1 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: C1 / S-401		F2 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: C1 / S-402		F4 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: C8 / S-401		F6 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: D6 / S-402	
F3 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: C1 / S-401		F5 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: C1 / S-402		F7 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: D4 / S-402		F8 LB FRAMING DETAIL SCALE: 3/4" = 1'-0" REFERENCED FROM: D4 / S-402	

CONSULTANTS:		ARCHITECT		CONSTRUCTION DOCUMENTS	
 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	 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	Project Title Design/Construct Sterile Processing Service- Omaha VA Medical Center
COMPLIANCY REVIEW INCLUDED Revisions: 2/23/2024		 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		Approved: Project Director Omaha VA Medical Center	Location 4101 Woolworth Ave #4199 Omaha, NE 68105
				Date 11/23/2020	Checked LGF
				Drawn MDR	Building Number 25
				Drawing Number S-403	Project Number 16.2330.A08
				Dwg. 94 of 193	Office of Construction and Facilities Management

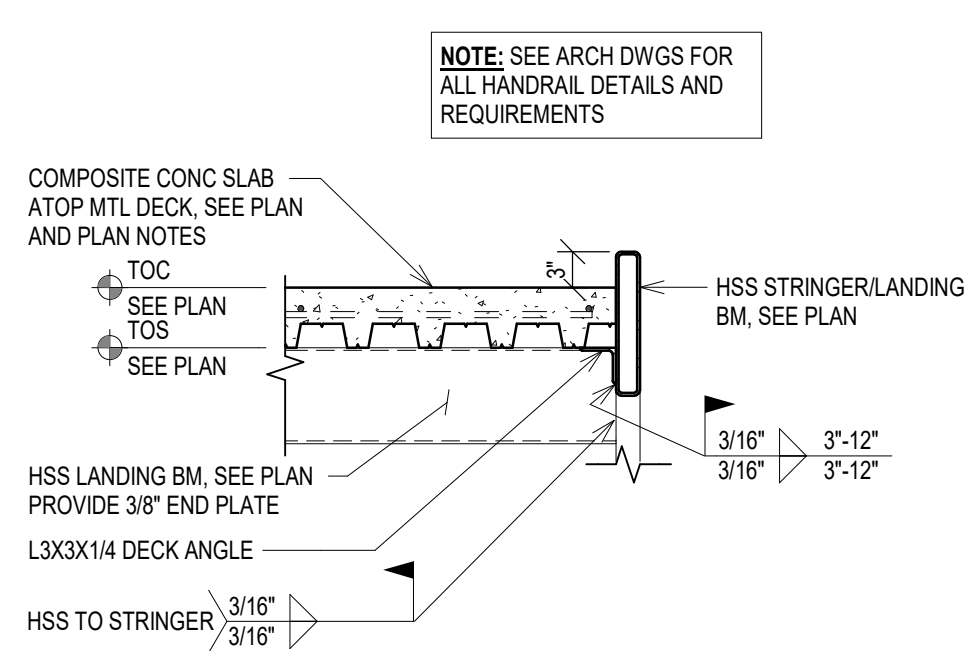
B1 STAIR FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: D8 / S-404



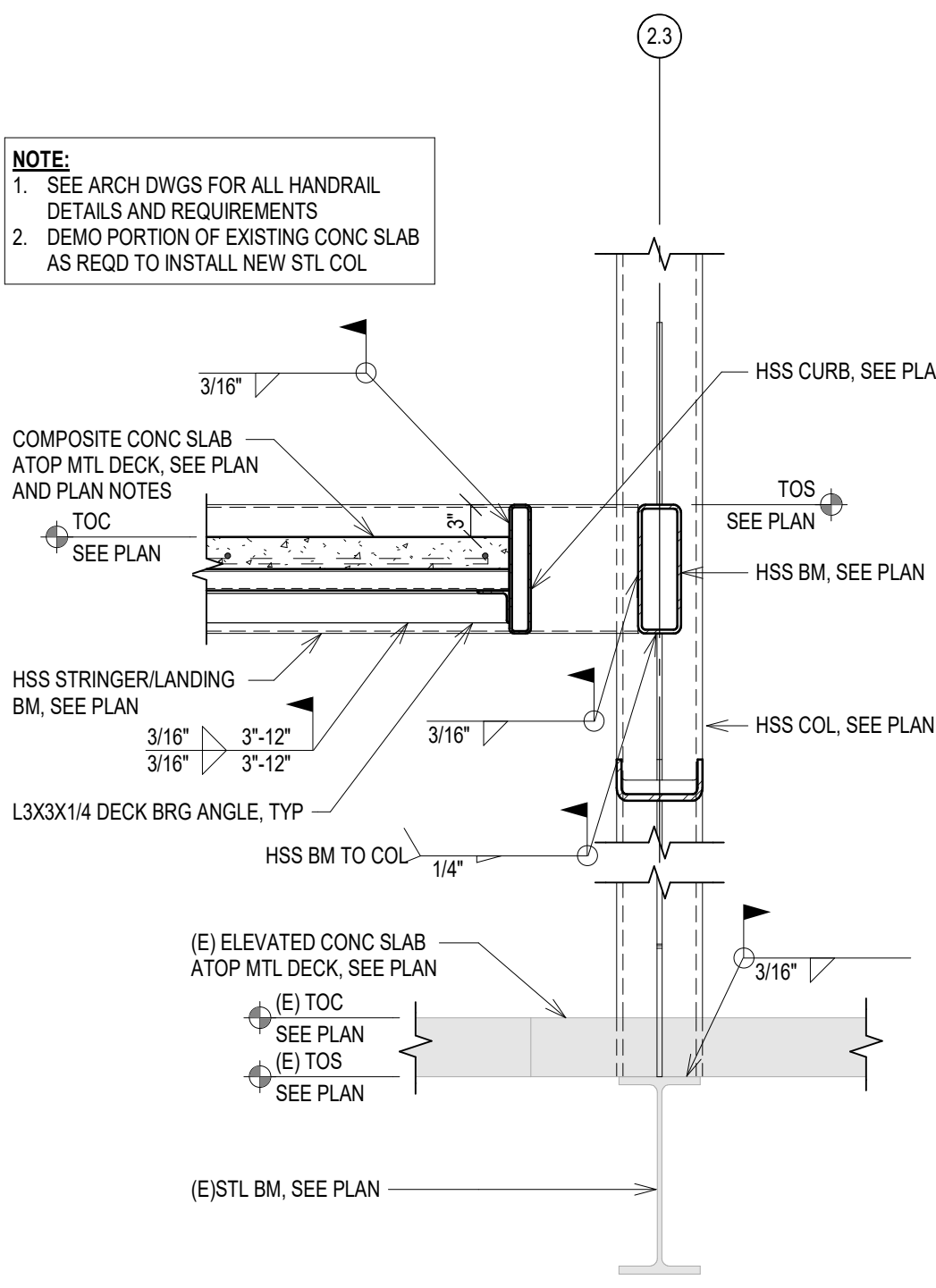
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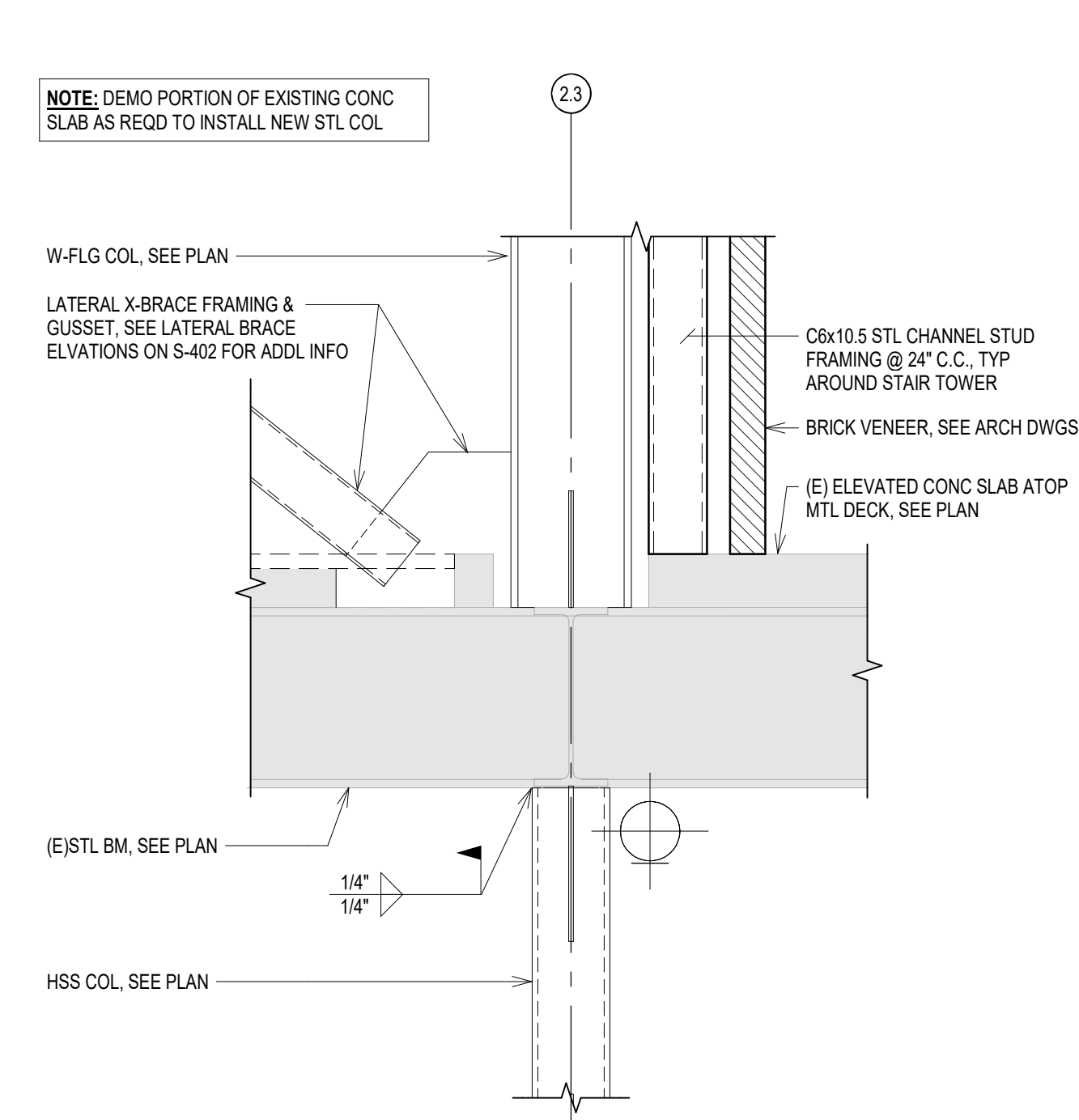
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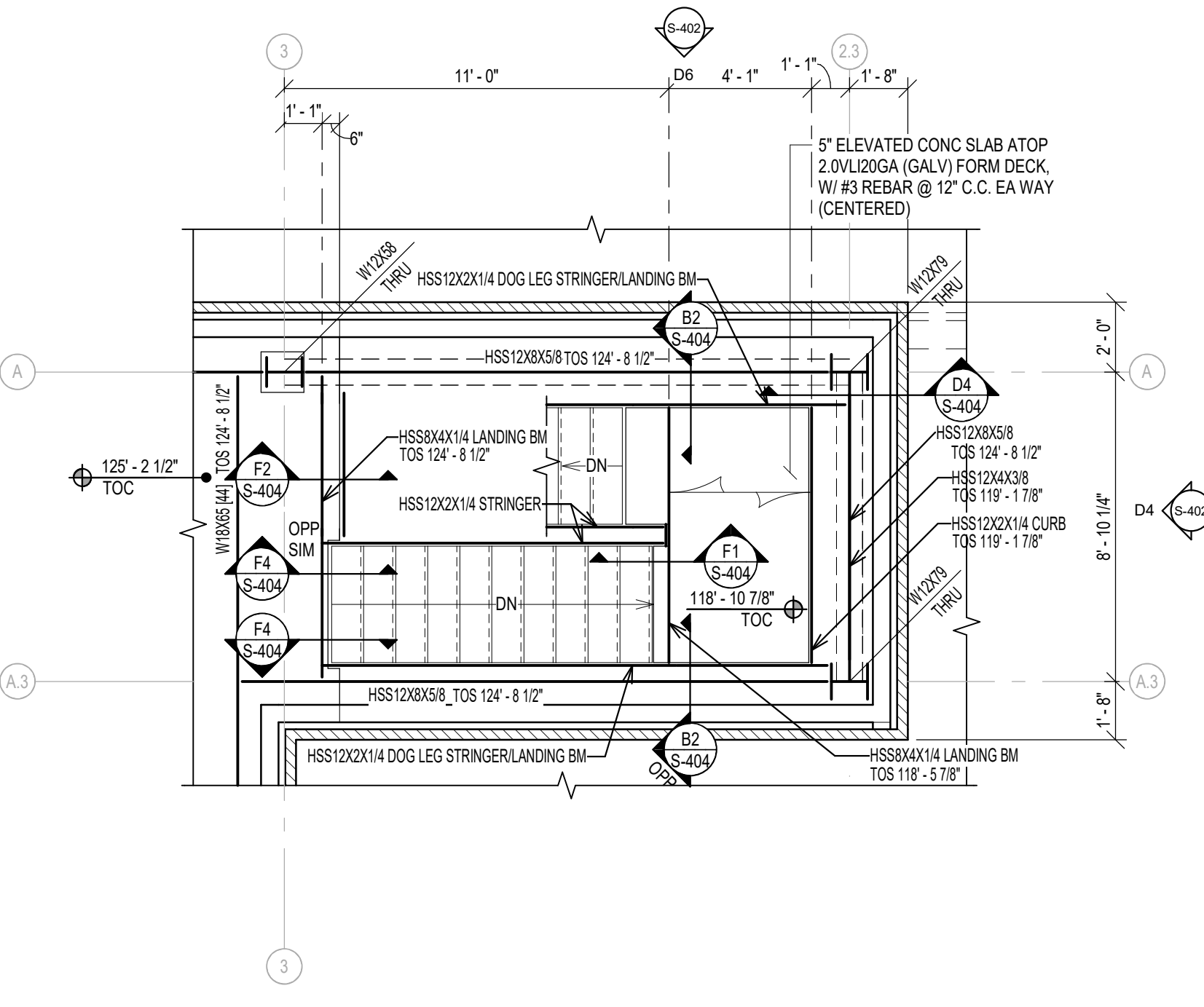
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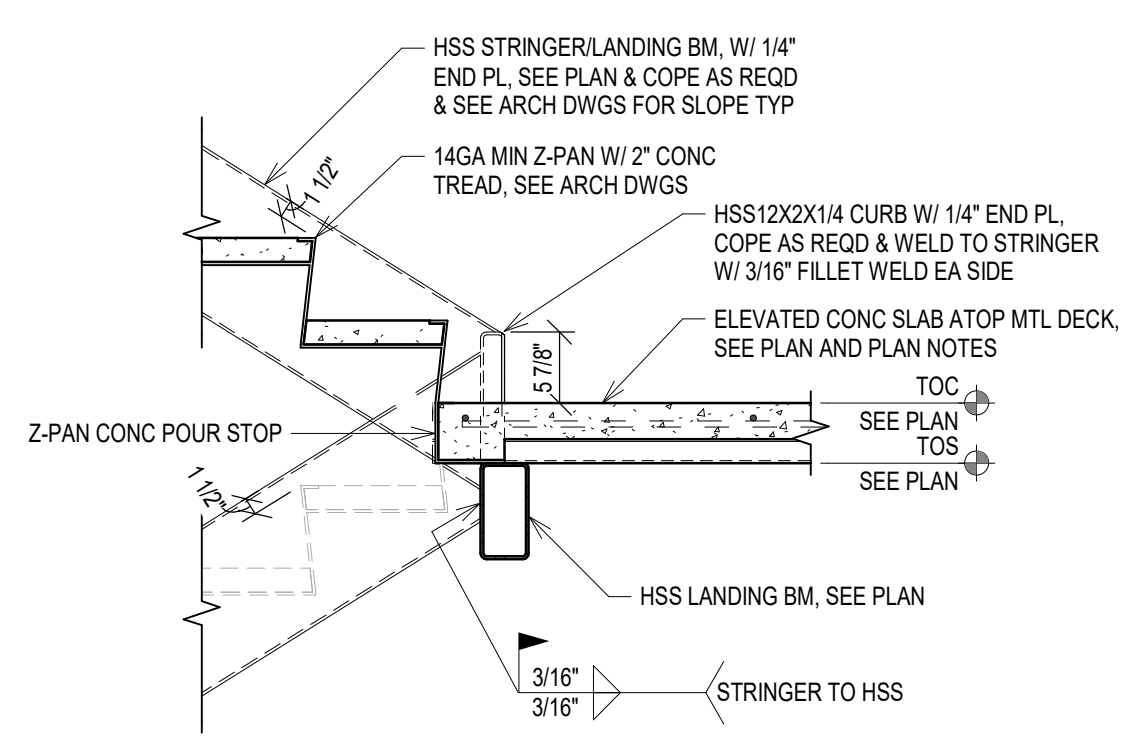
B8 ENLARGED STAIR FRMG PLAN - LANDING TO 3RD FLR

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



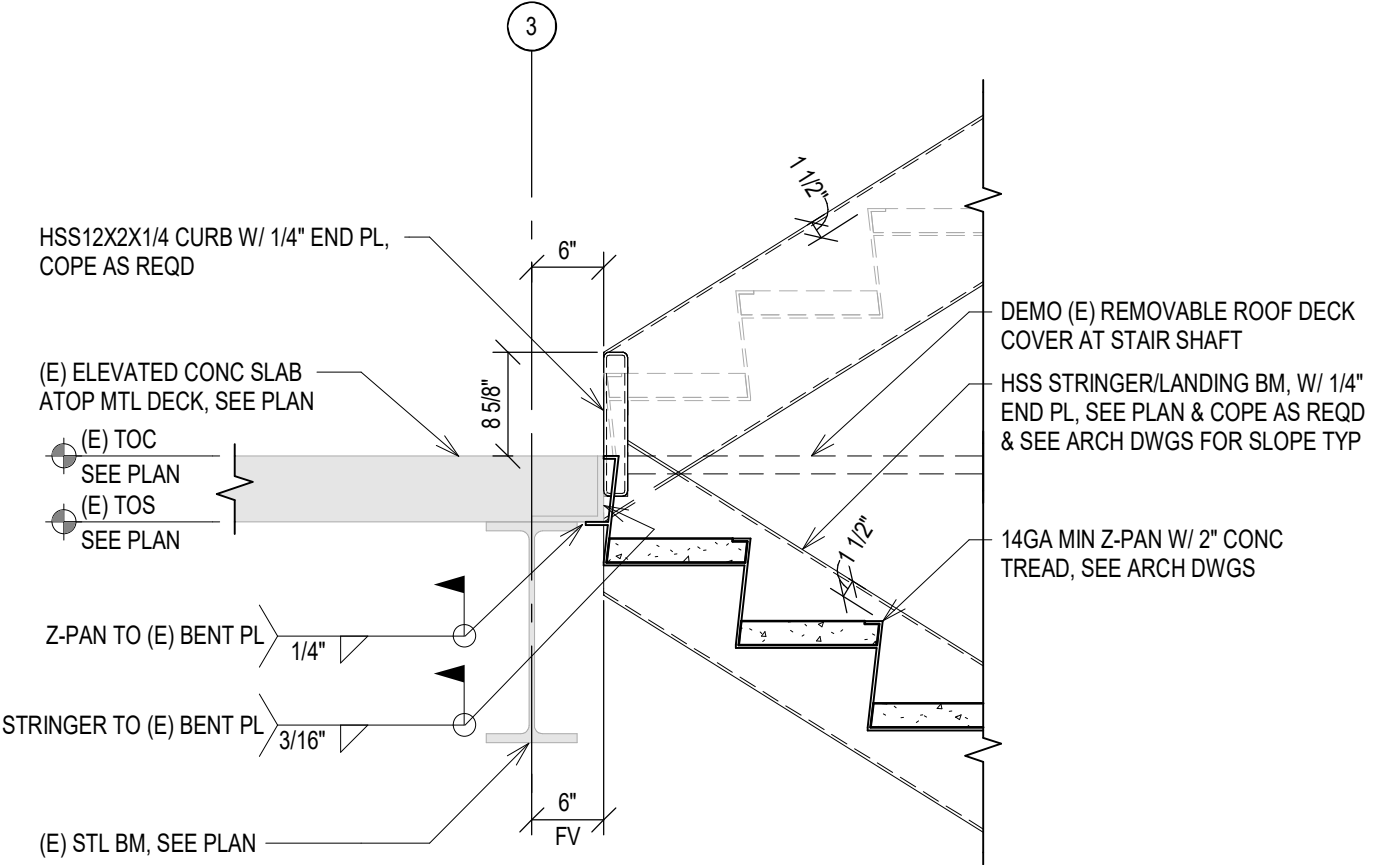
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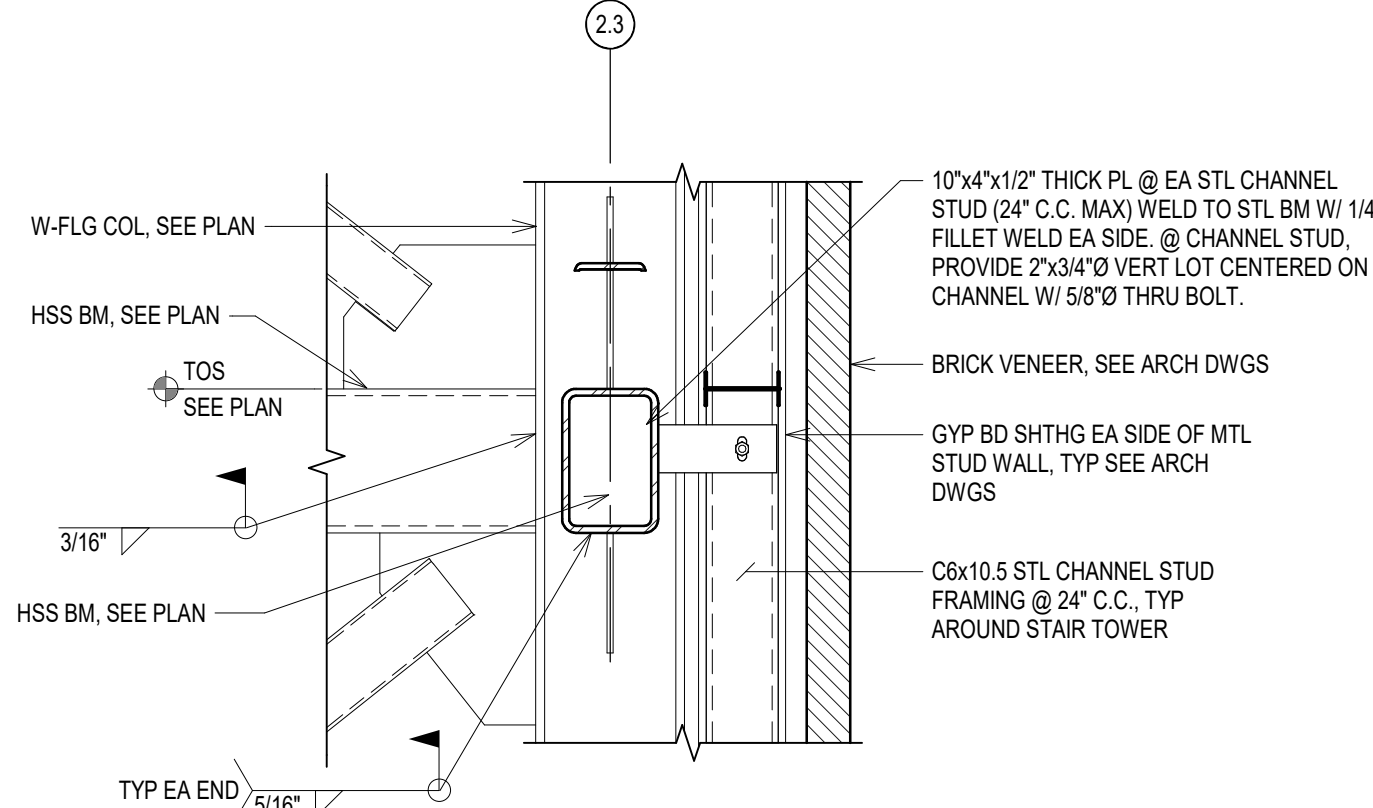
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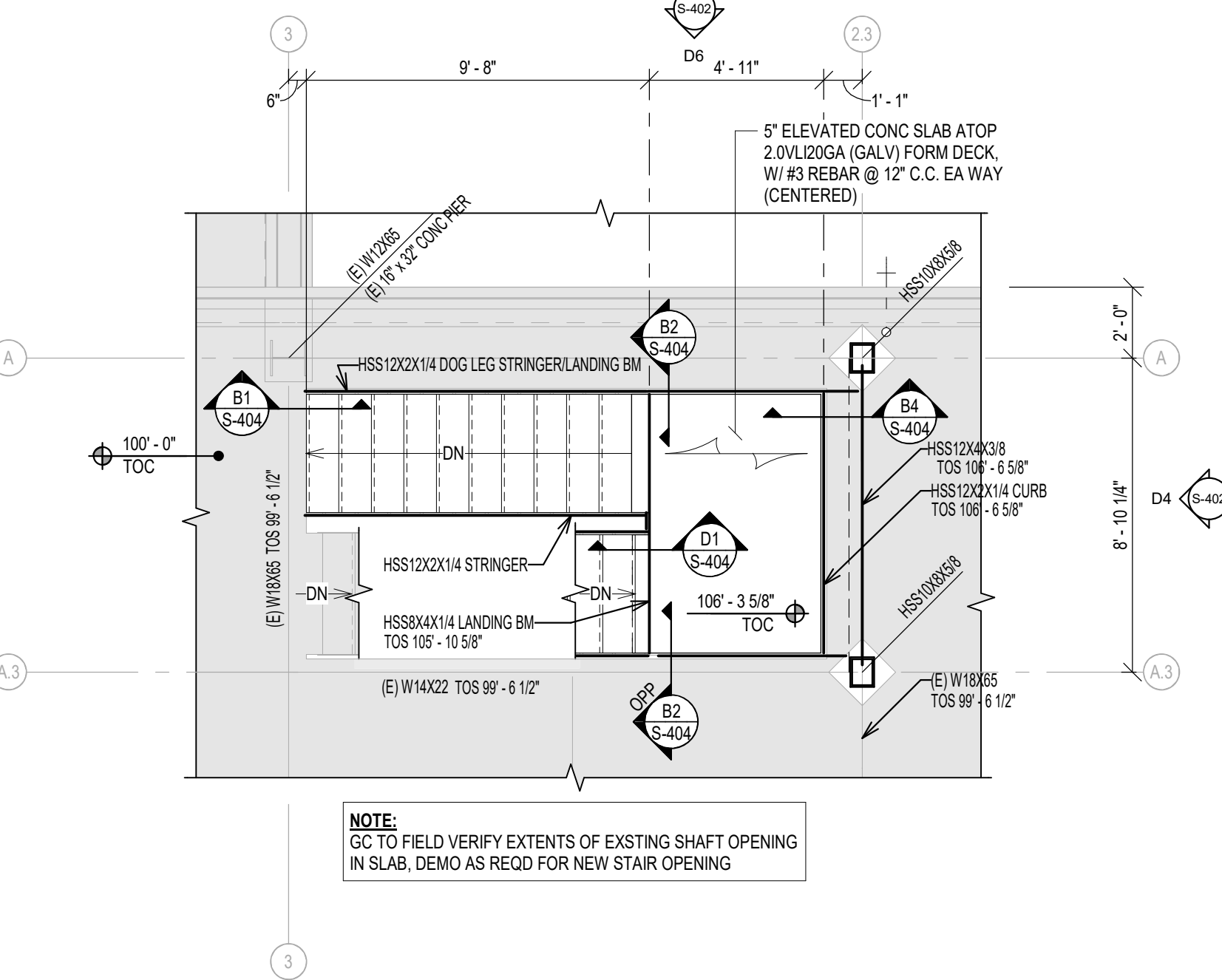
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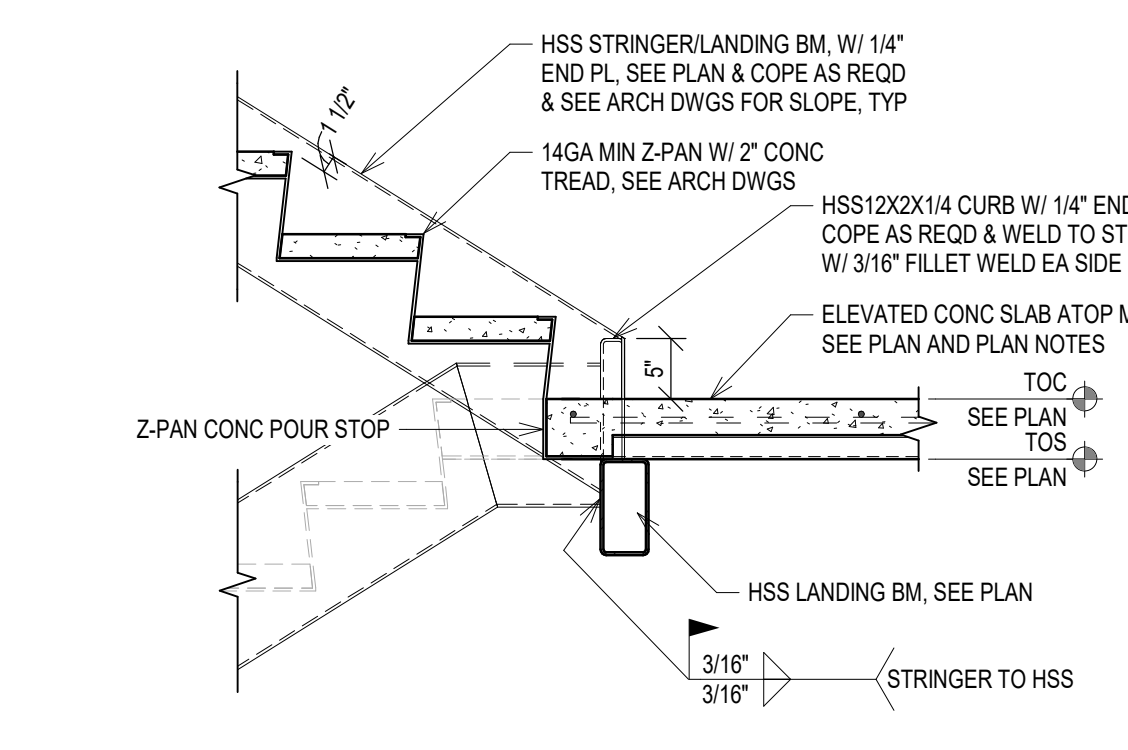
D8 ENLARGED STAIR FRMG PLAN - 2ND FLR

SCALE: 1/4" = 1'-0" REFERENCED FROM: F1 / S-102



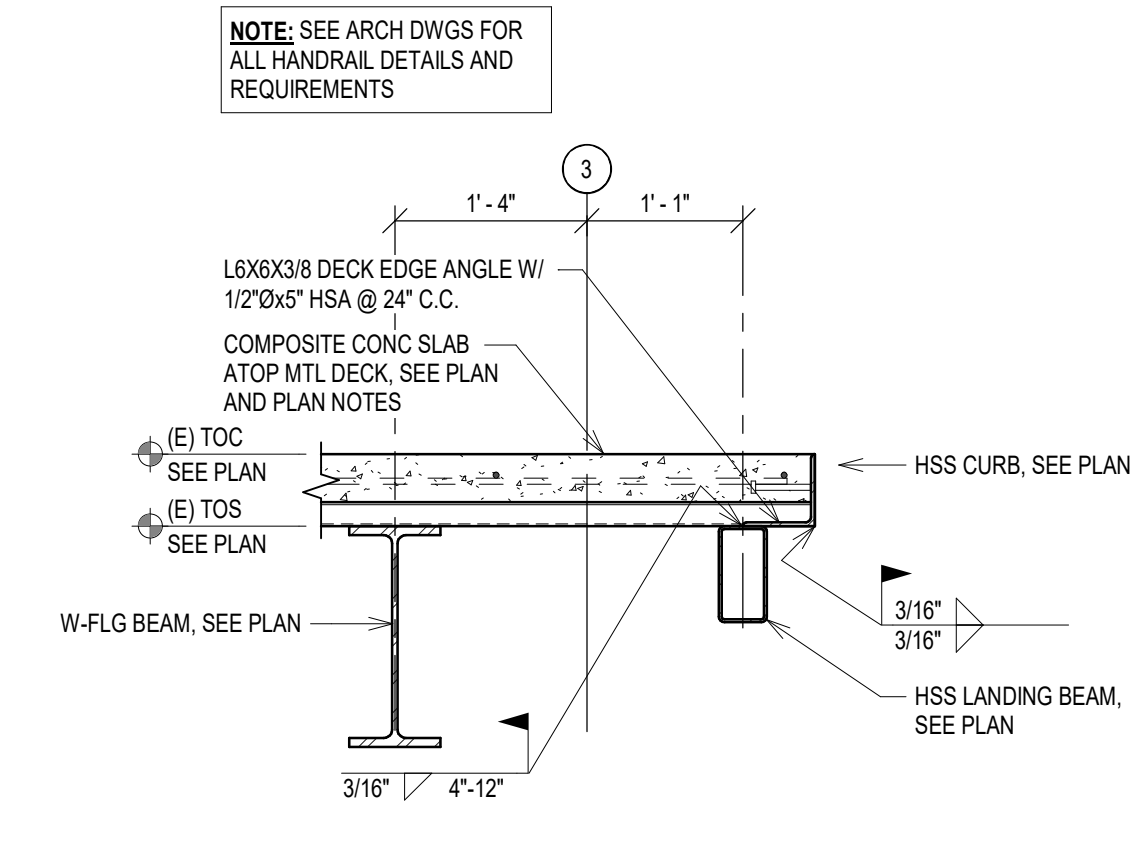
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SCALE: 3/4" = 1'-0" REFERENCED FROM: B8 / S-404



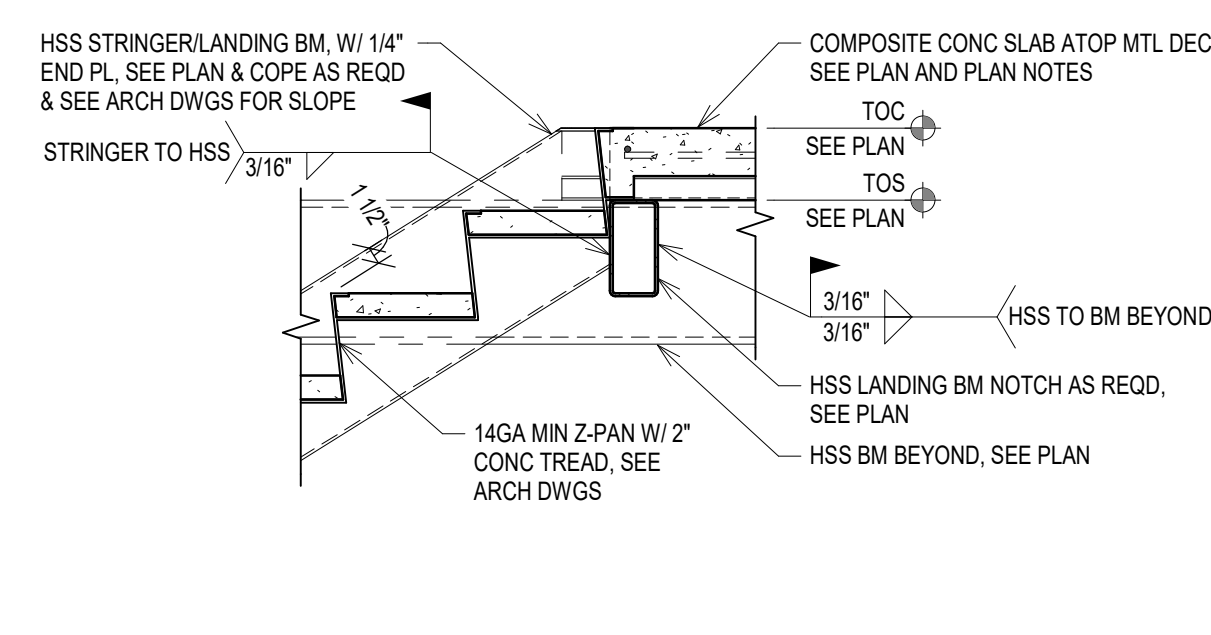
F2 STAIR FRAMING DETAIL

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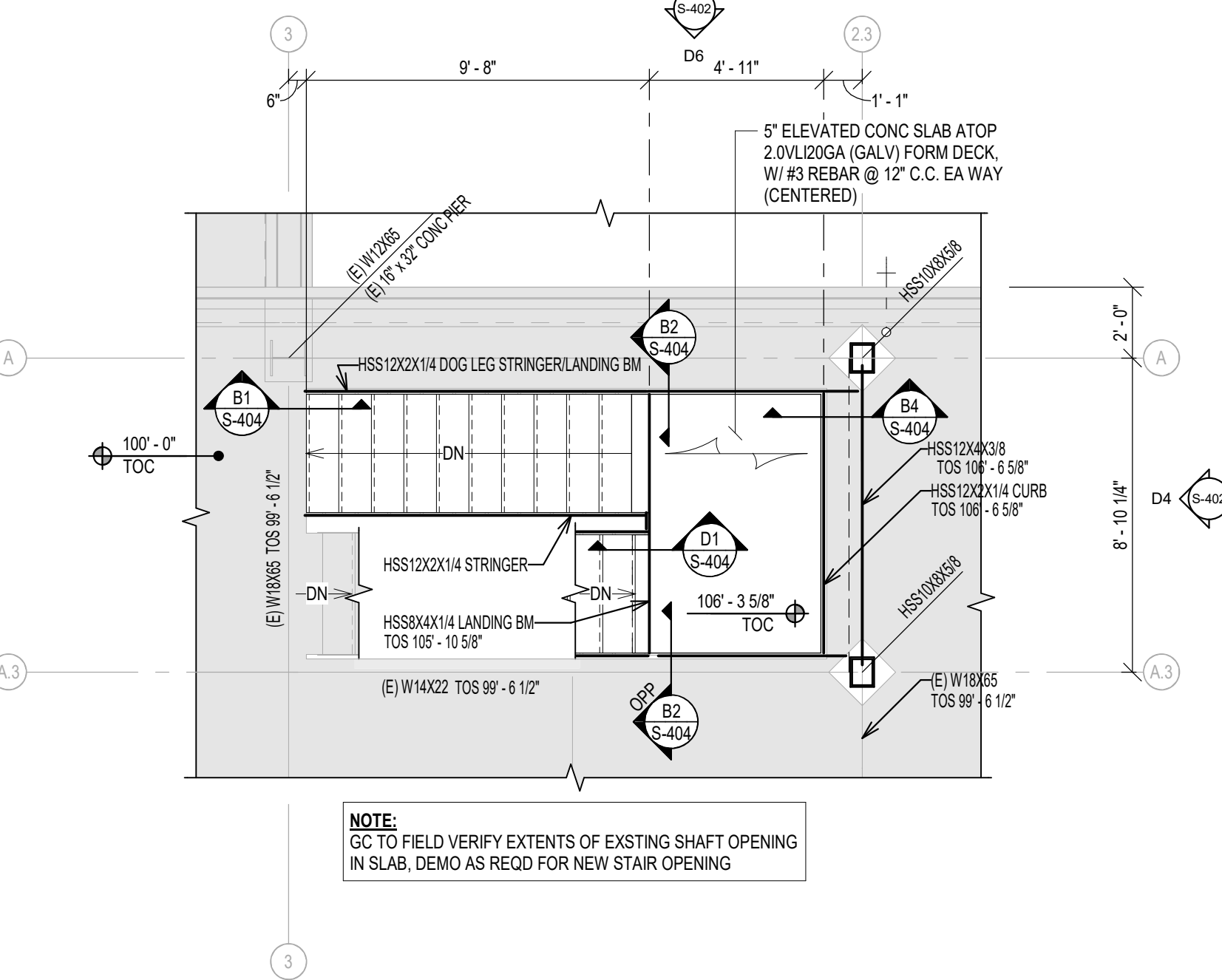
F4 STAIR FRAMING DETAIL

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



F8 ENLARGED STAIR FRMG PLAN - 1ST FLR TO LANDING

SCALE: 1/4" = 1'-0" REFERENCED FROM:



COMPLIANCY REVIEW INCLUDED	2/23/2024
Revisions:	Date

CONSULTANTS:

TERRASITE DESIGN
1635 DEADWOOD AVENUE
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ALBERTSON ENGINEERING, INC.
315 NORTH MAIN AVENUE, SUITE 200
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PH: (605) 274-0880

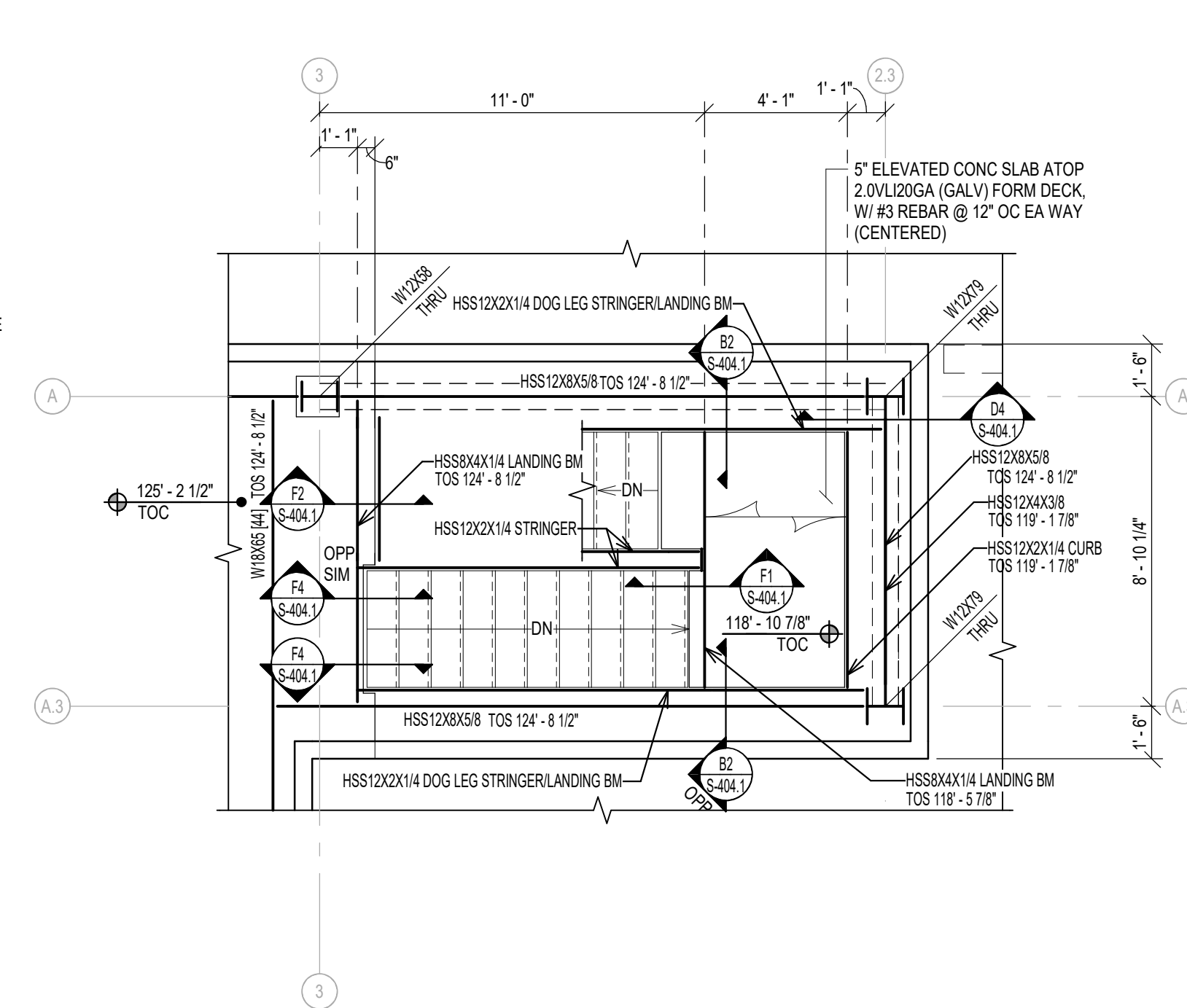
FARRIS ENGINEERING
12700 WEST DODGE ROAD
OMAHA, NEBRASKA 68154
PH: (402) 330-5900

ARCHITECT

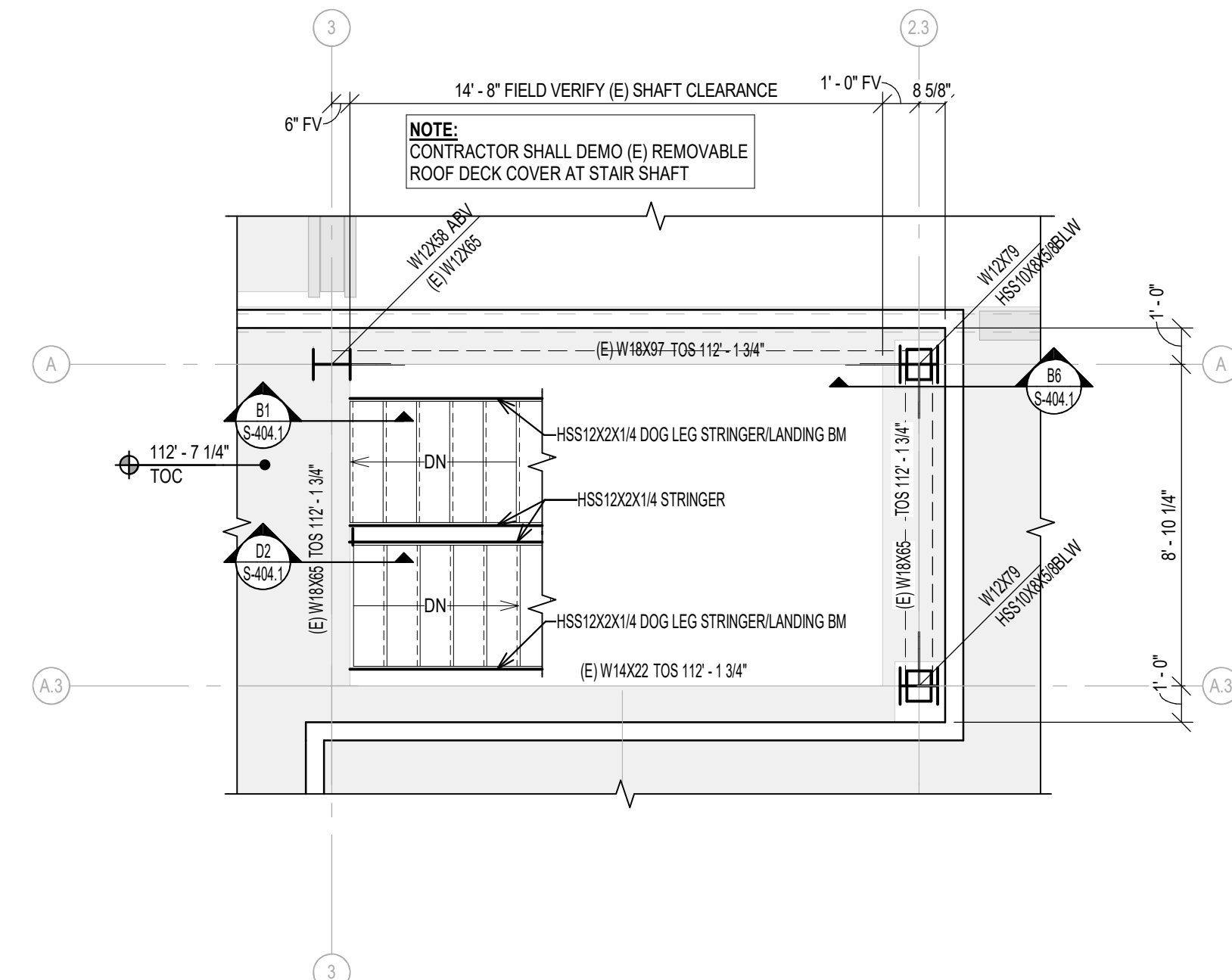
FOURFRONT DESIGN, INC.
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RAPID CITY, SOUTH DAKOTA 57701
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FAX: (605) 342-2377
WWW.FOURFRONTDESIGN.COM

Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management
ENLARGED STAIR FRAMING PLANS	Design/Construct Sterile Processing Service- Omaha VA Medical Center	16.2330.A08	
Approved: Project Director	Location	Building Number	25
Omaha VA Medical Center	4101 Woolworth Ave #4199 Omaha, NE 68105		
	Date	Checked	S-404
	11/23/2020	LGF	
		Drawn	Dwg. 95 of 193
		MDR	

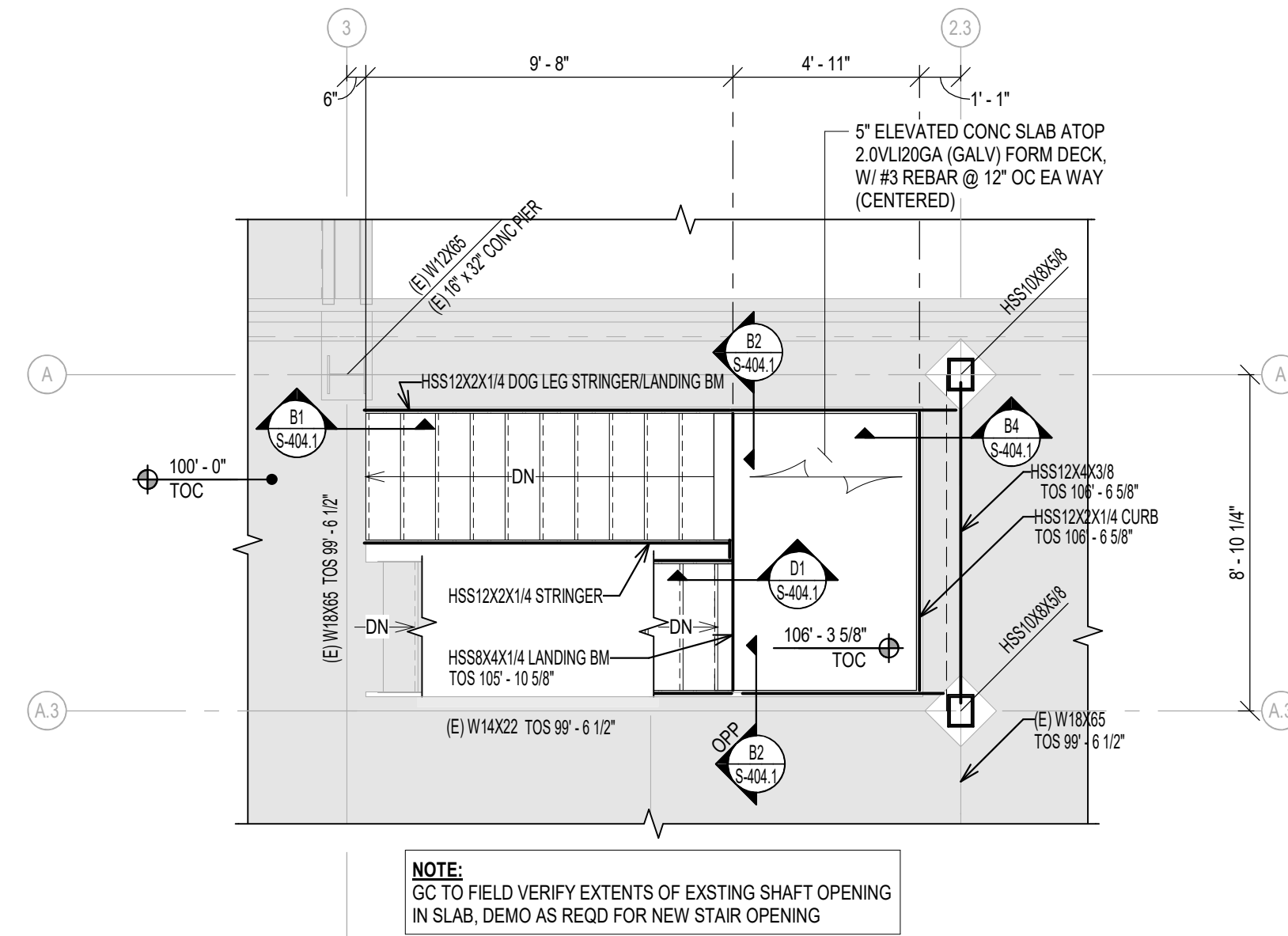




ENLARGED STAIR FRMG PLAN - LANDING TO 3RD FLR



ENLARGED STAIR FRMG PLAN - 2ND FLR

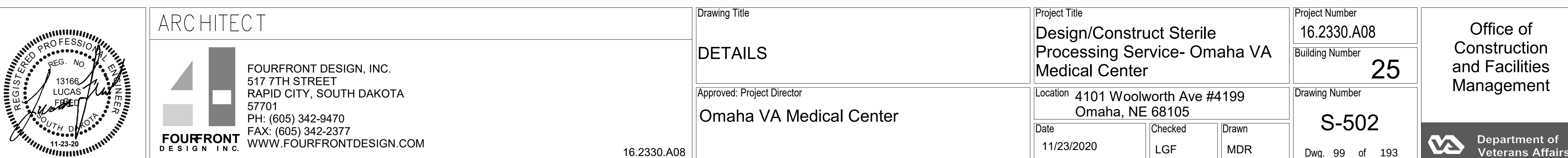


ENLARGED STAIR FRMG PLAN - 1ST FLR TO LANDING

Office of
Construction
and Facilities
Management

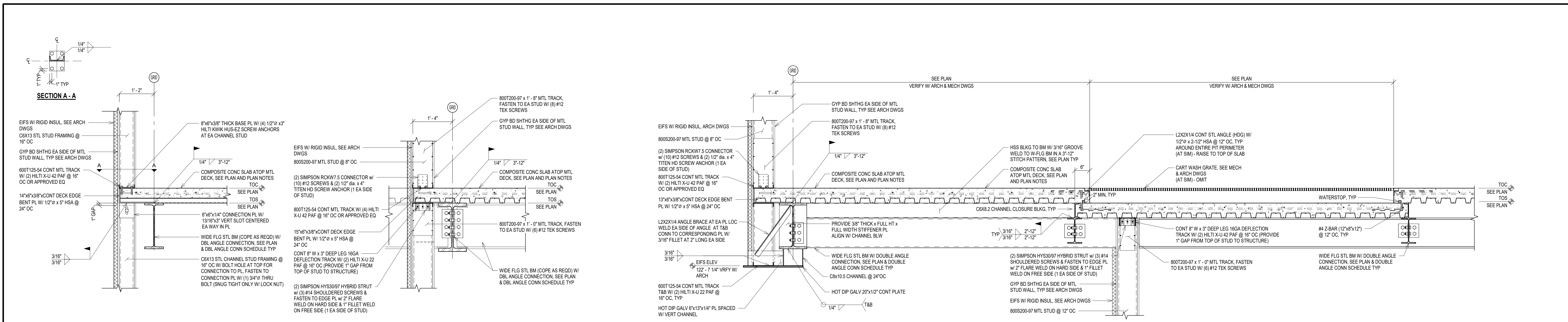
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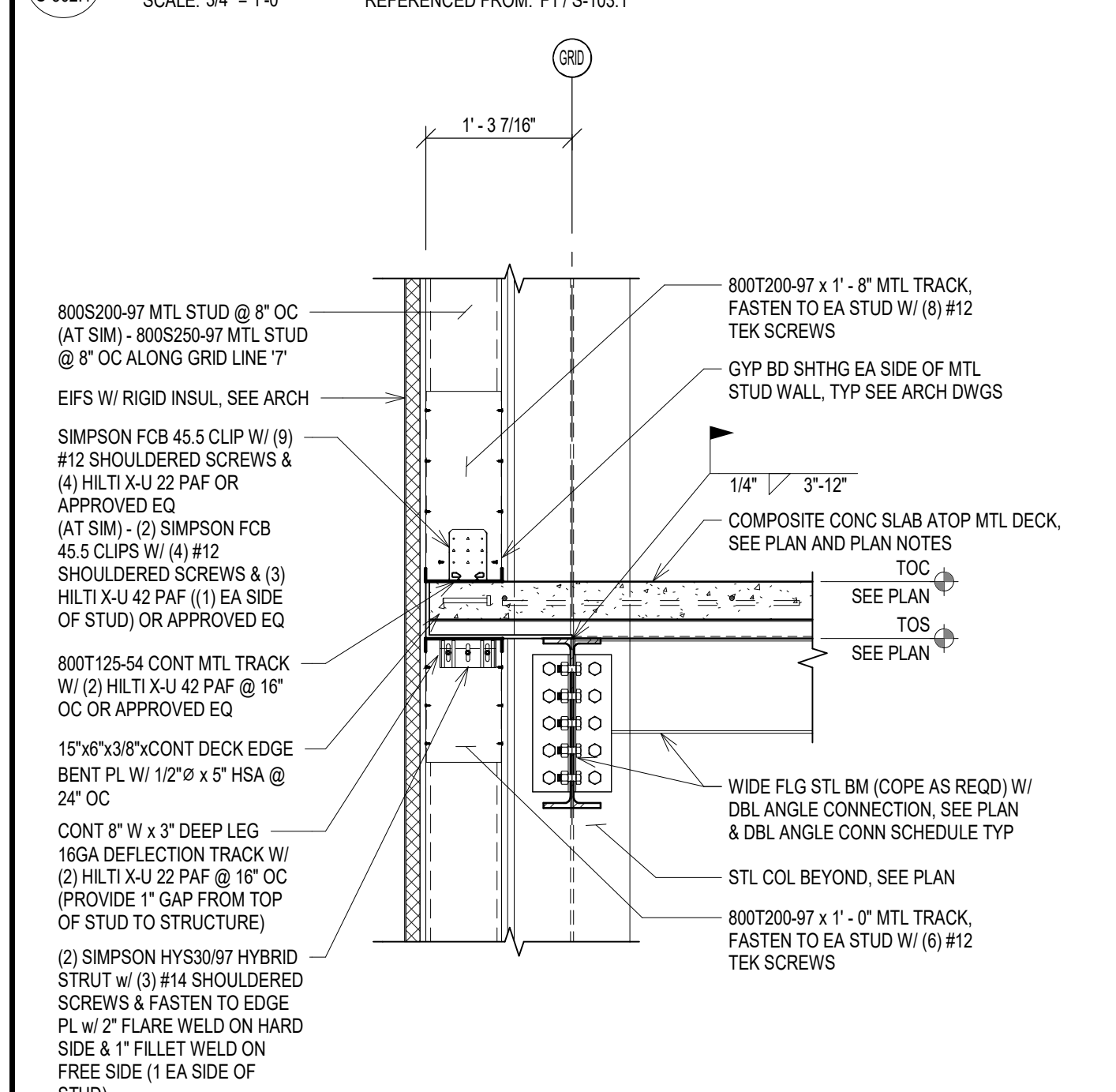
 Department of
Veterans Affairs

TE:
PRIOR TO CASTING RECESSED
SLAB AREA AND 2"x2" EMBED
ANGLES, GC SHALL VERIFY W/
FINAL CART WASH SHOP
DRAWING SUBMITTAL.
LOWER CAST WASH SLAB SHALL
SLOPE TO DRAIN, SEE ARCH &
MECH DWGS

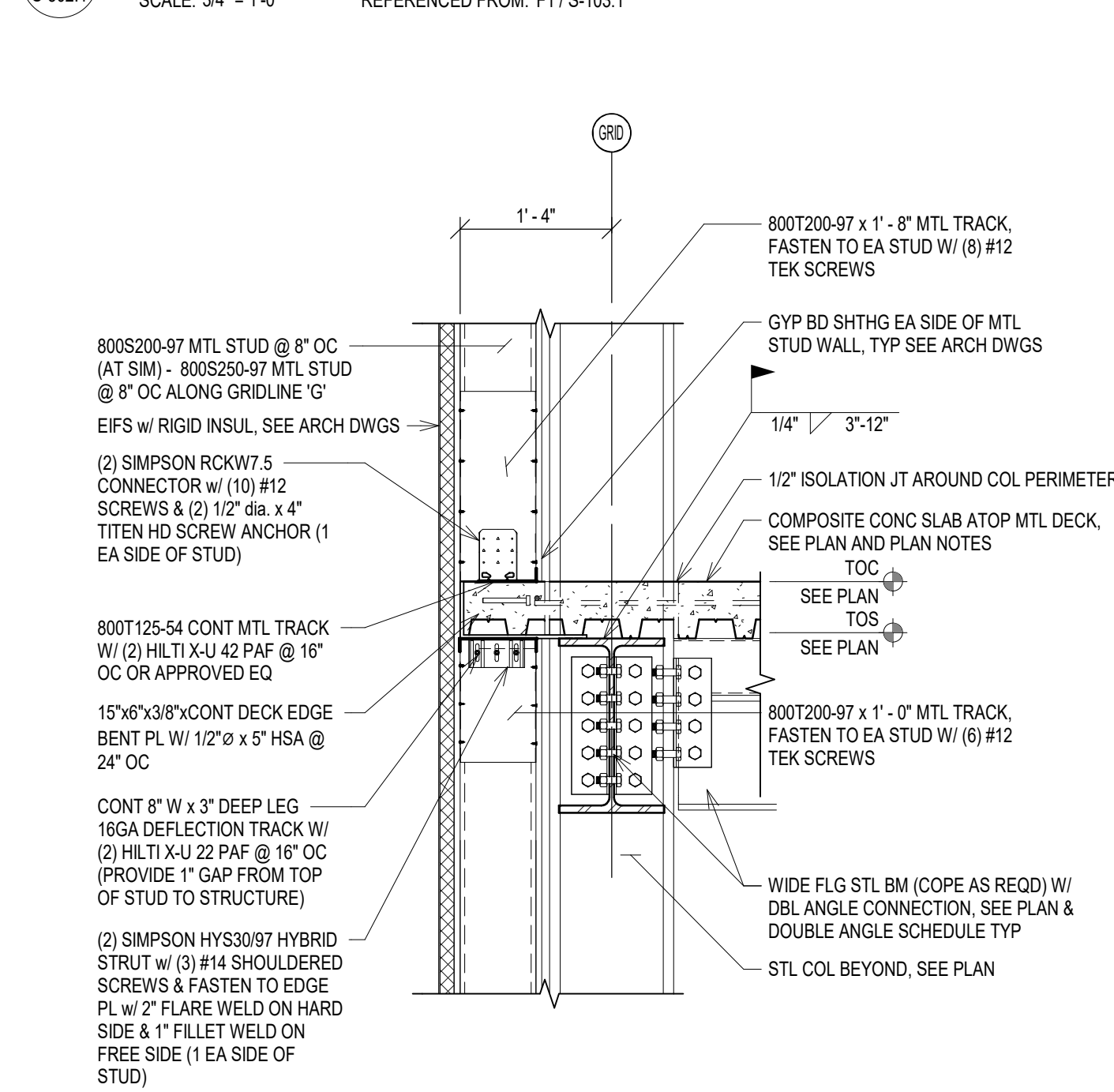
CLARKDIETRICH FAST STRUT FS
AT EA (E) STUD, FASTEN TO STL
W/ (2) HILTI X-U PAF & TO STUD W/
(3) #12 SELF DRILLING SCREWS



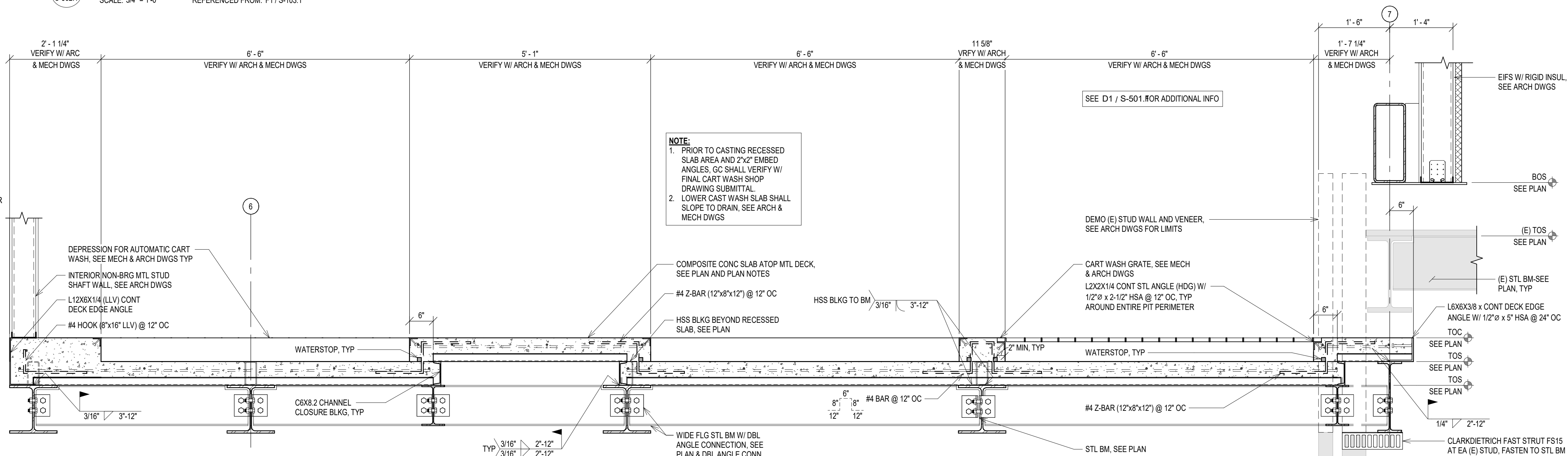
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S-502.1
FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103.1



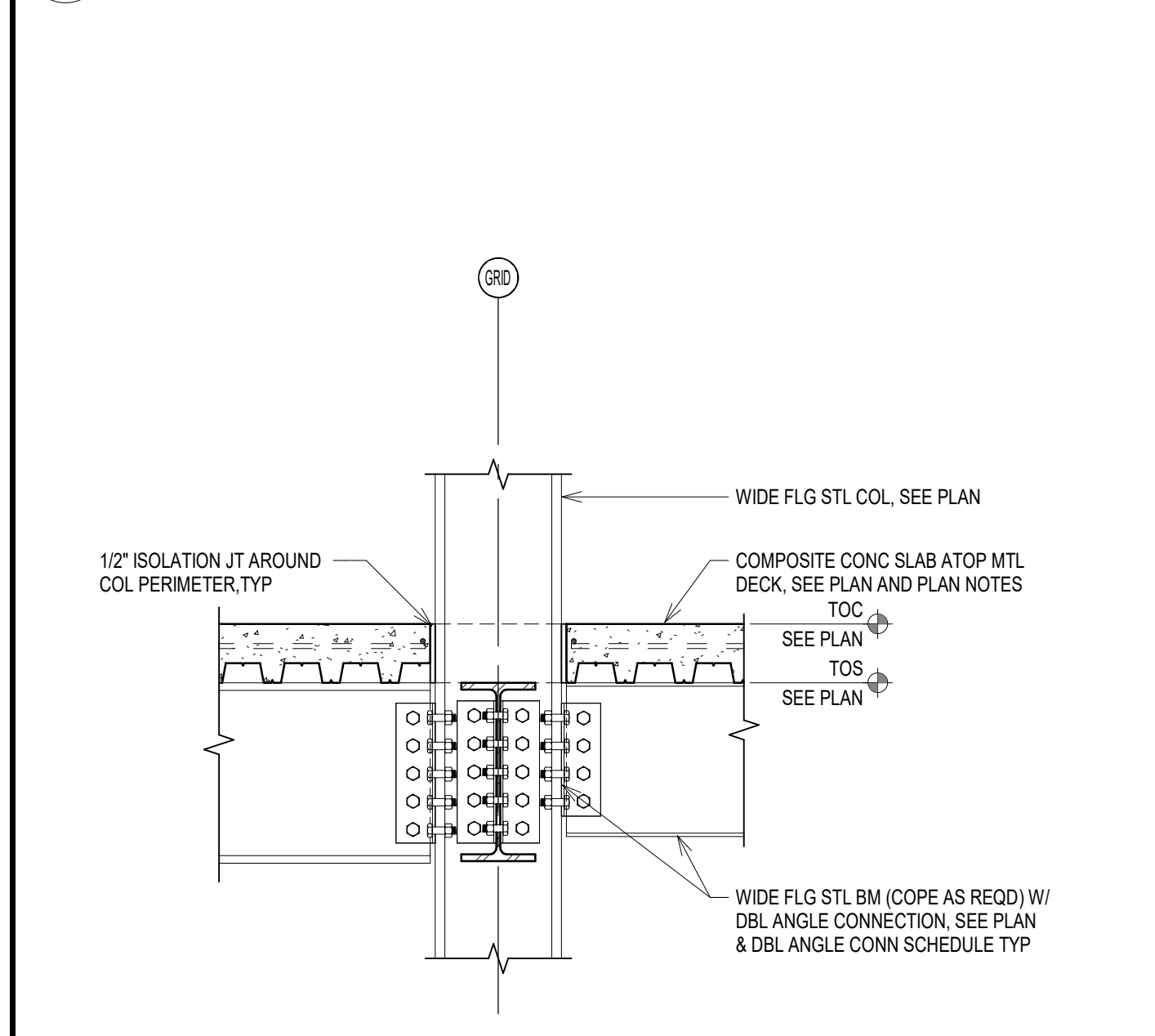
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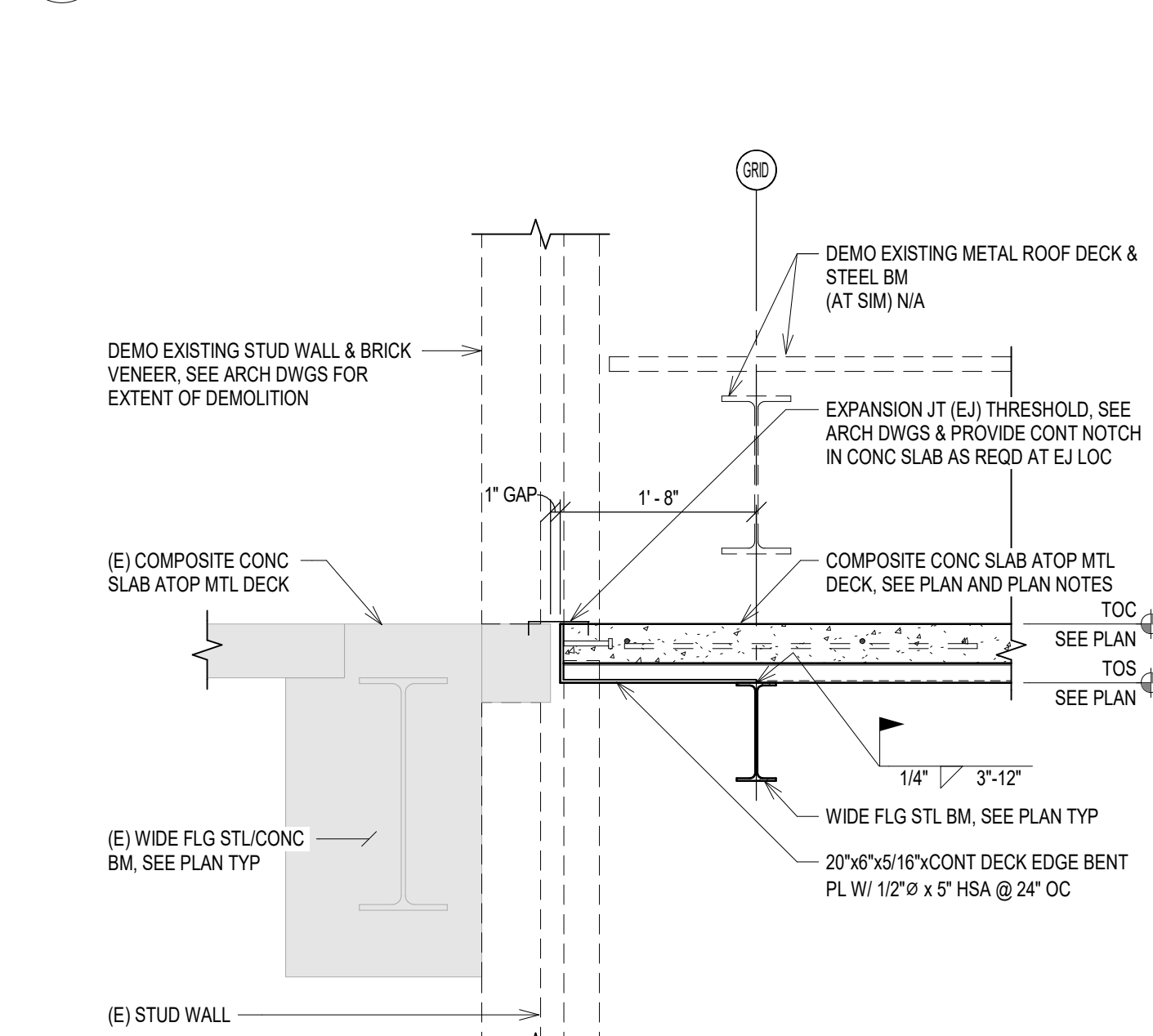
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FRAMING DETAIL
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REFERENCED FROM: F1 / S-103.1



D1
S-502.1
FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103.1



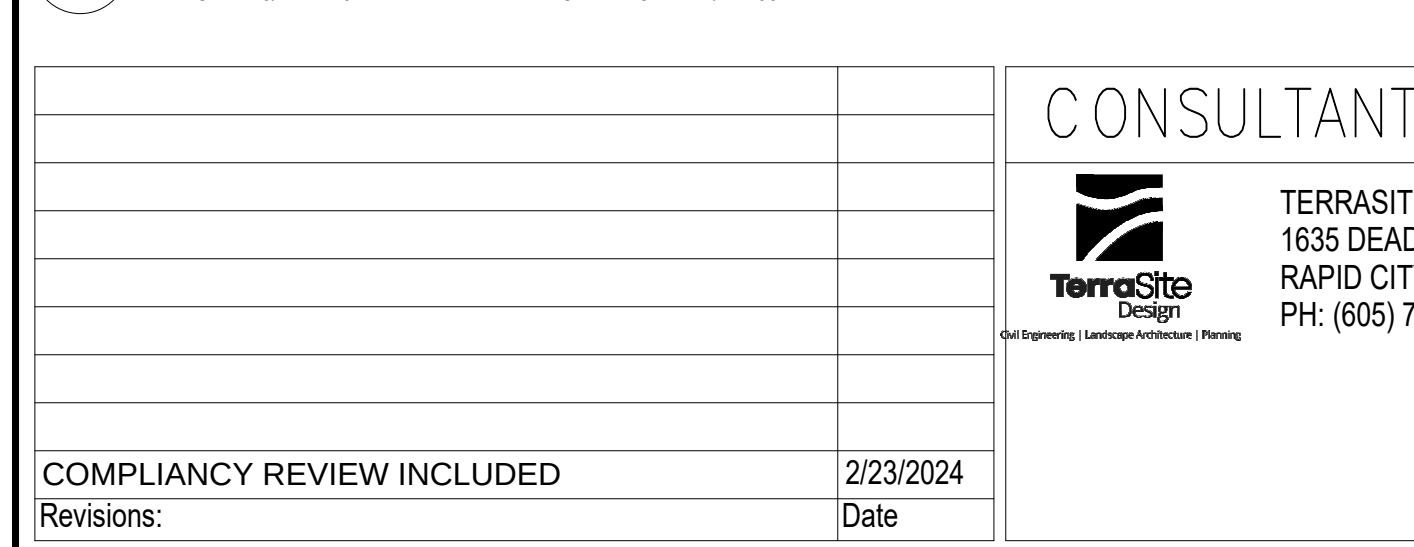
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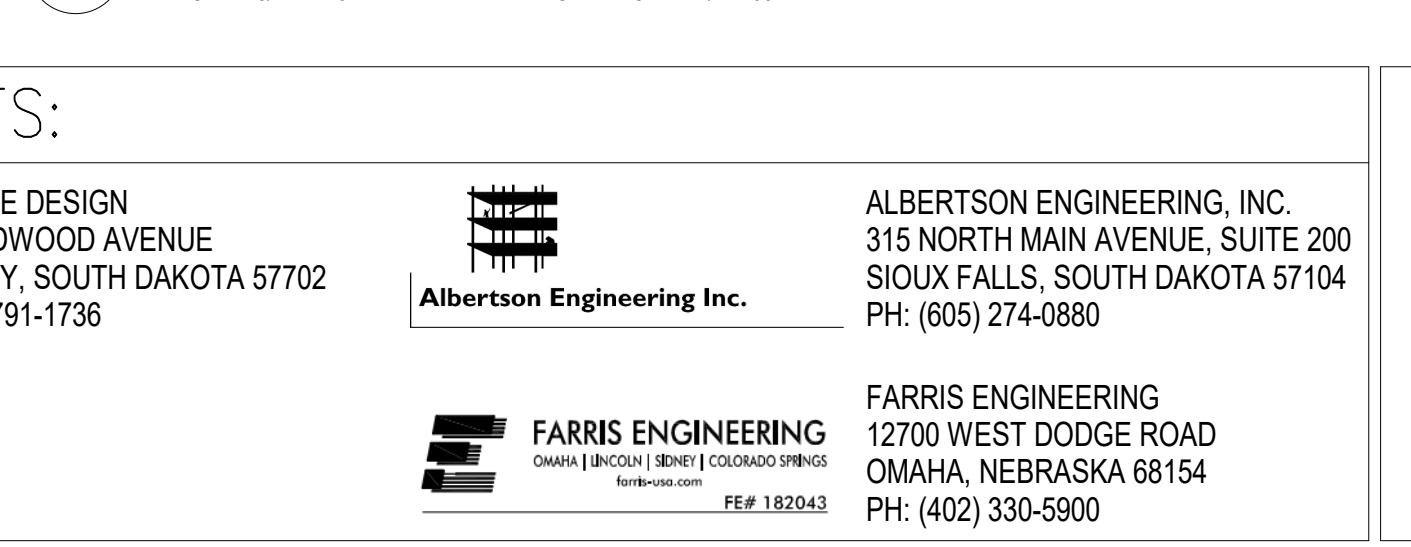
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FRAMING DETAIL
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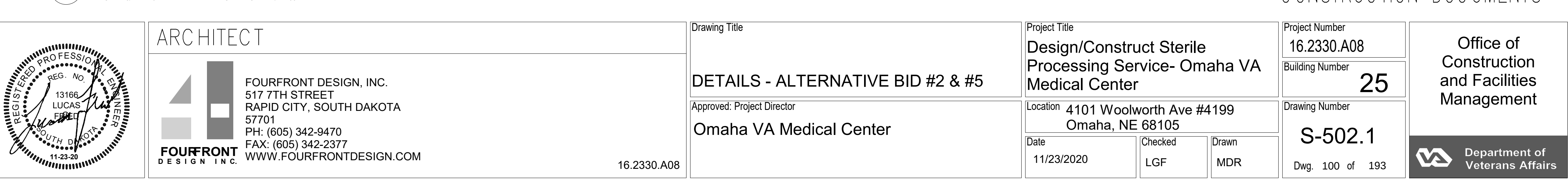
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S-502.1
FRAMING DETAIL
SCALE: 3/4" = 1'-0"
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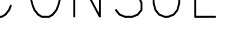
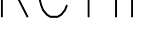


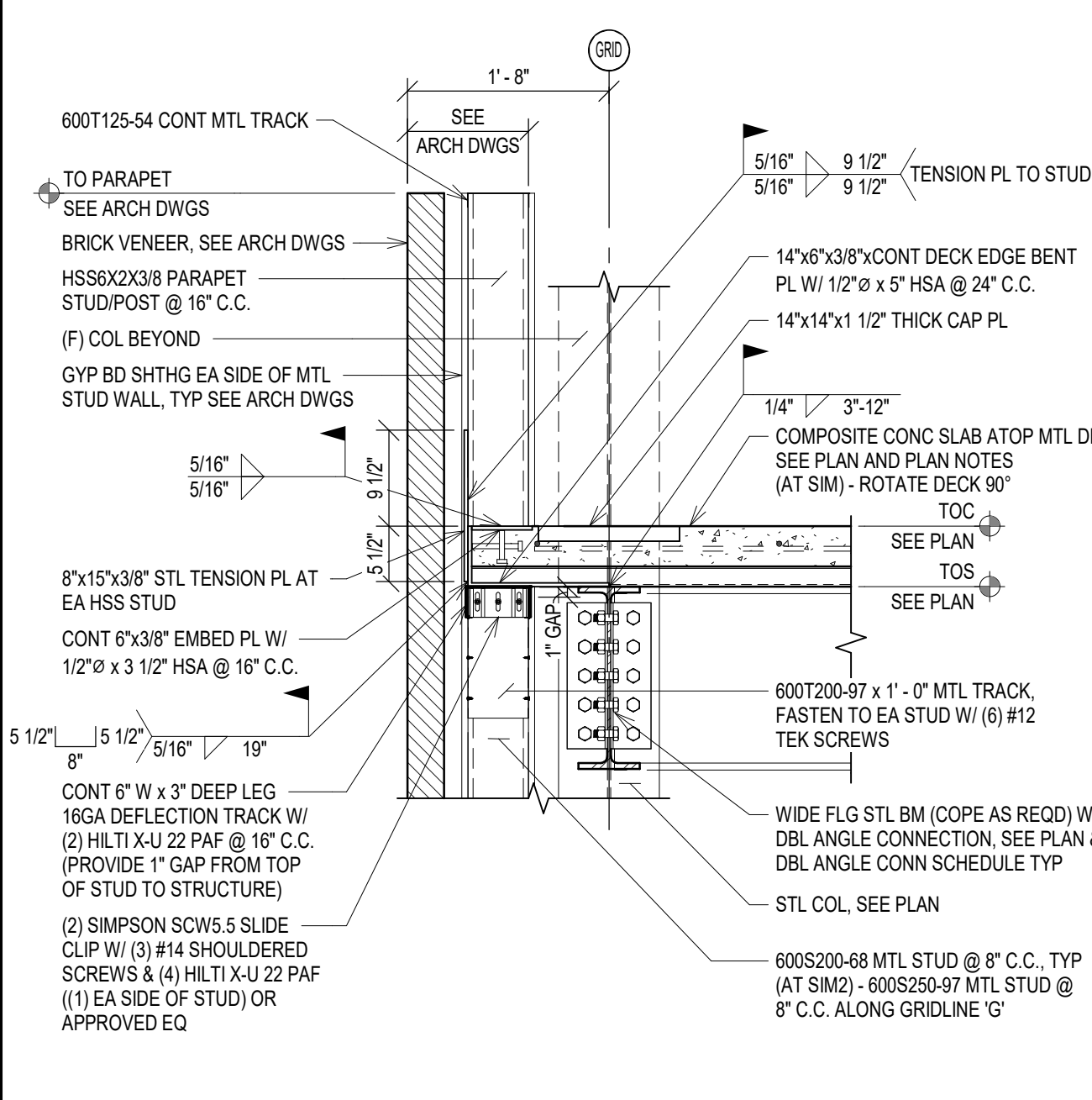
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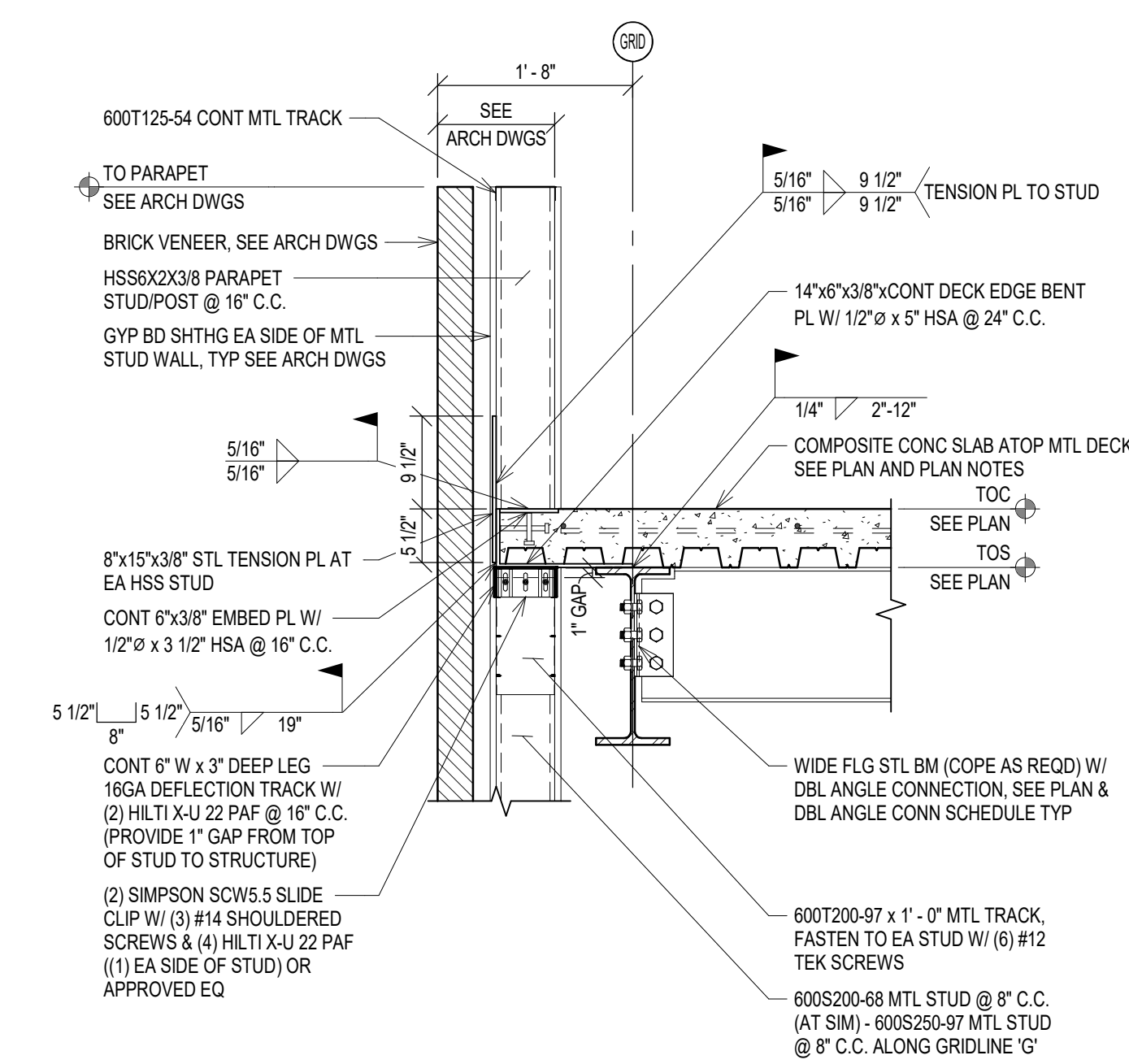
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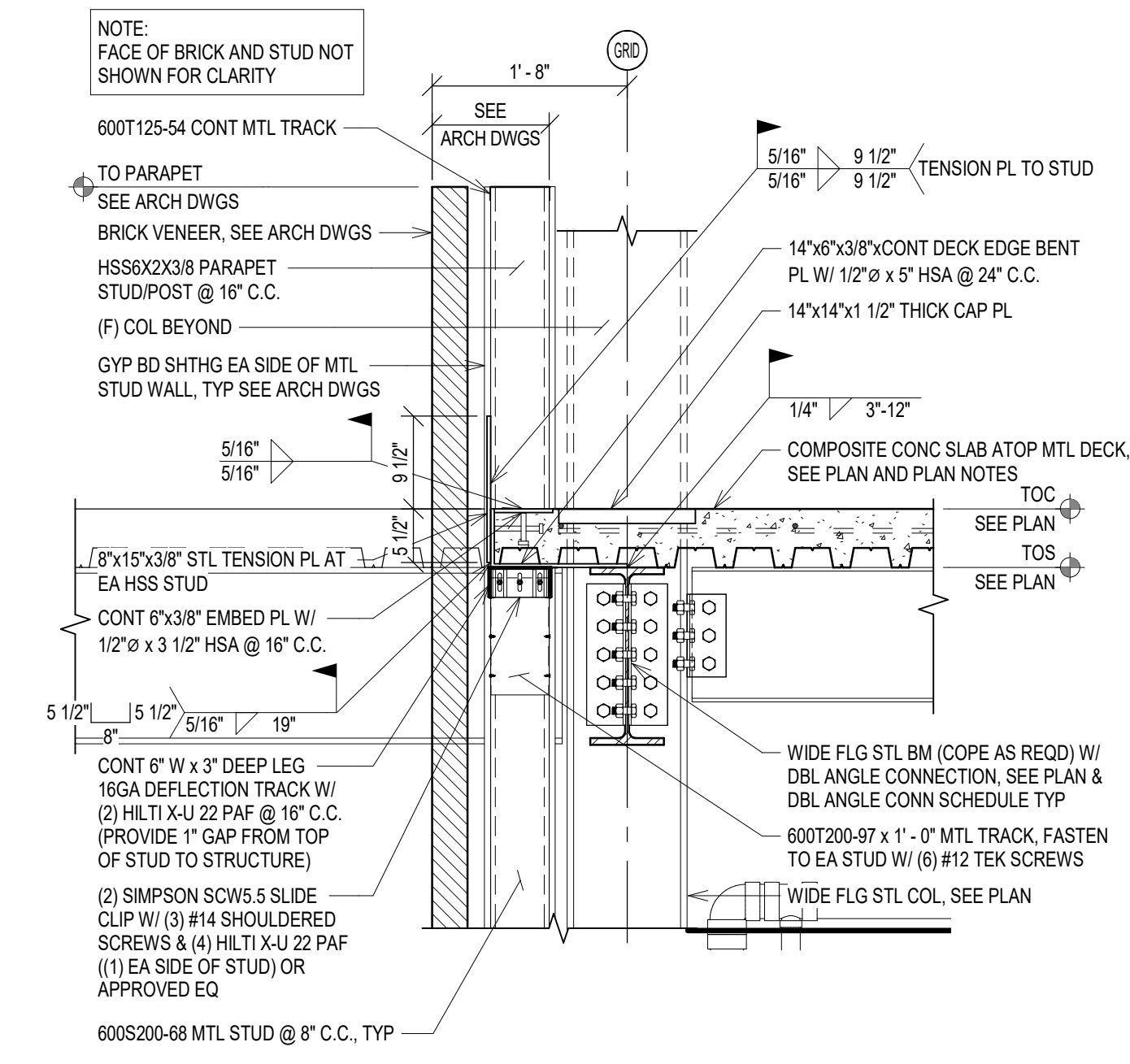
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		 TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736		 Albertson Engineering Inc.  FARRIS ENGINEERING CHANDLER BENTON COLUMBUS SPRING FIELD SIOUX FALLS PH: (605) 274-0880		 FOURFRONT DESIGN, INC. FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Design/Construct Sterile Processing Service- Omaha VA Medical Center		16.2330.A08			
						DETAILS - ALTERNATIVE BID #2 & #5		Location 4101 Woolworth Ave #4199 Omaha, NE 68105		Building Number 25			
						Approved: Project Director Omaha VA Medical Center		Drawing Number S-502.1		Drawing Date 11/23/2020			
								Date 11/23/2020		Checked LGF		Drawn MDR	
										Dwg. 100 of 193		Department of Veterans Affairs	
COMPLIANCE REVIEW INCLUDED		2/23/2024											
Revisions:		Date											



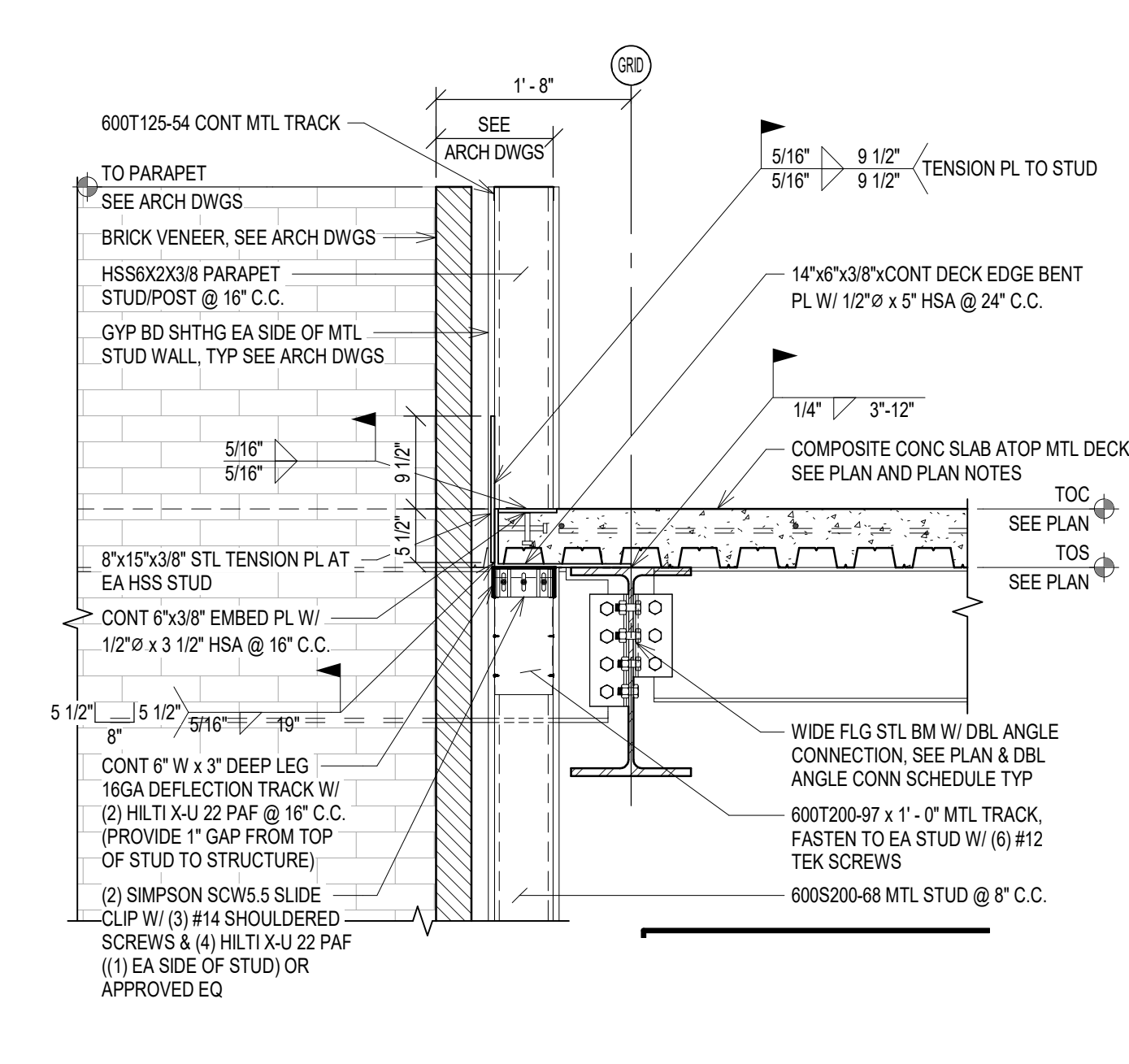
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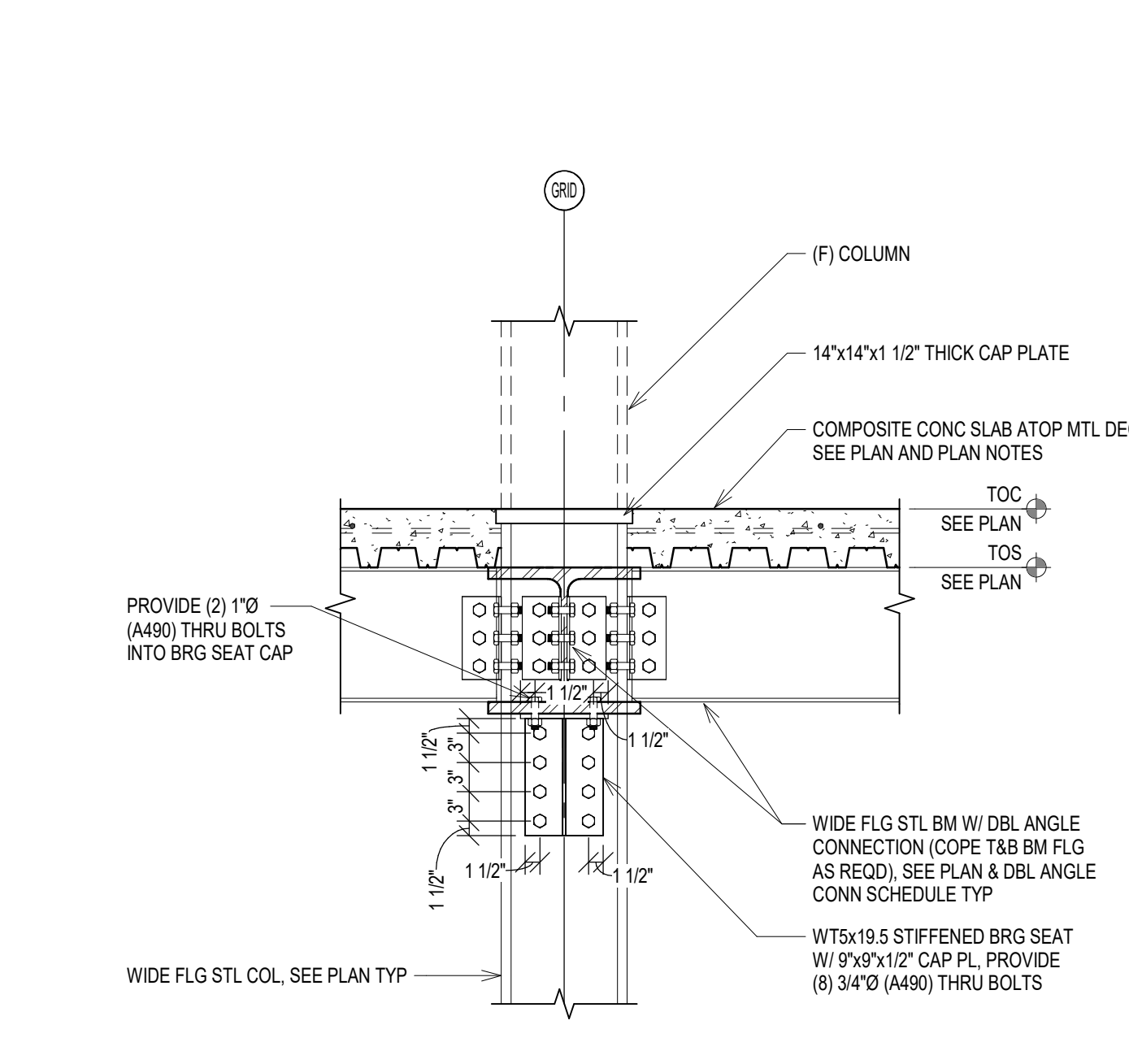
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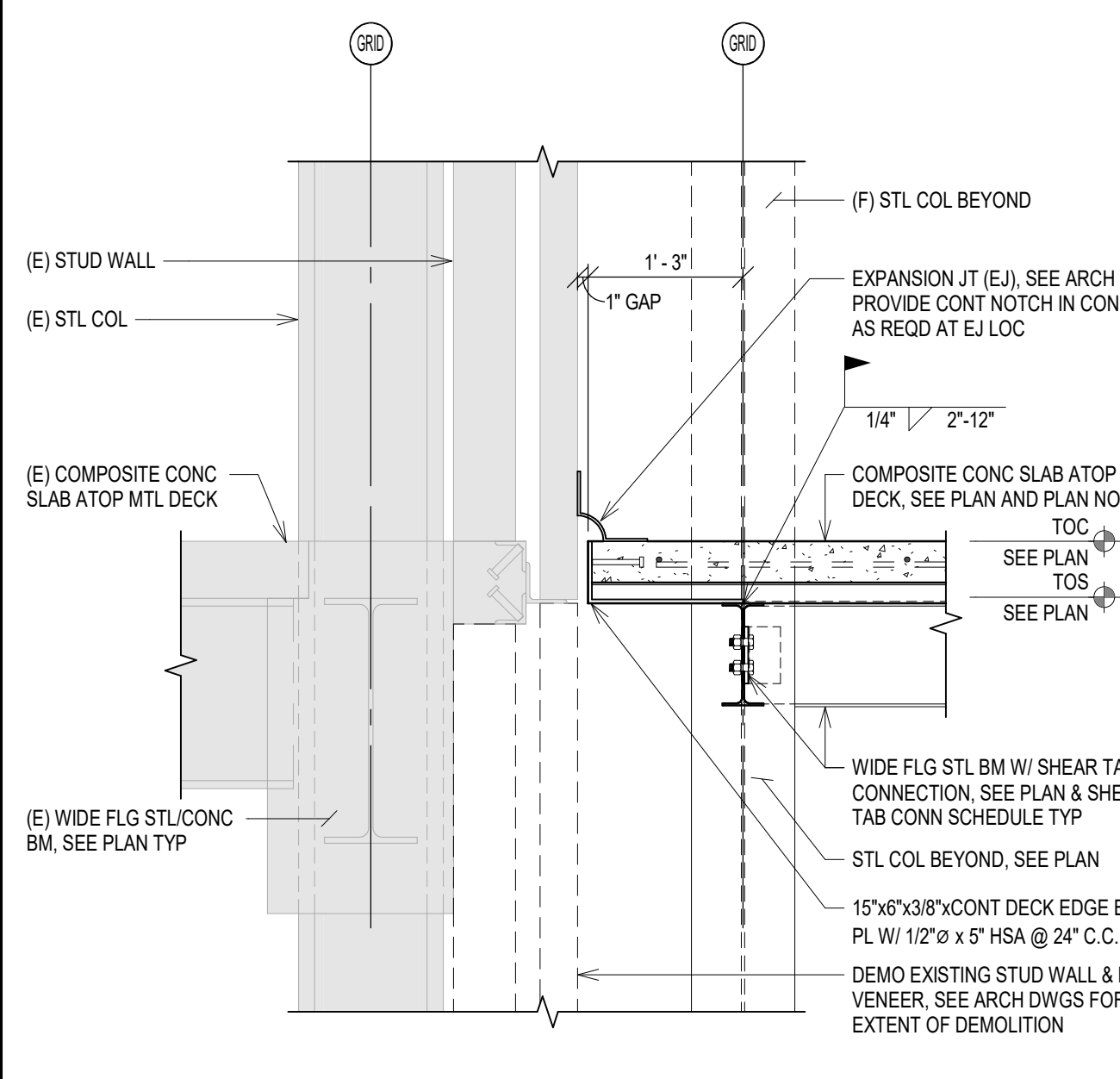
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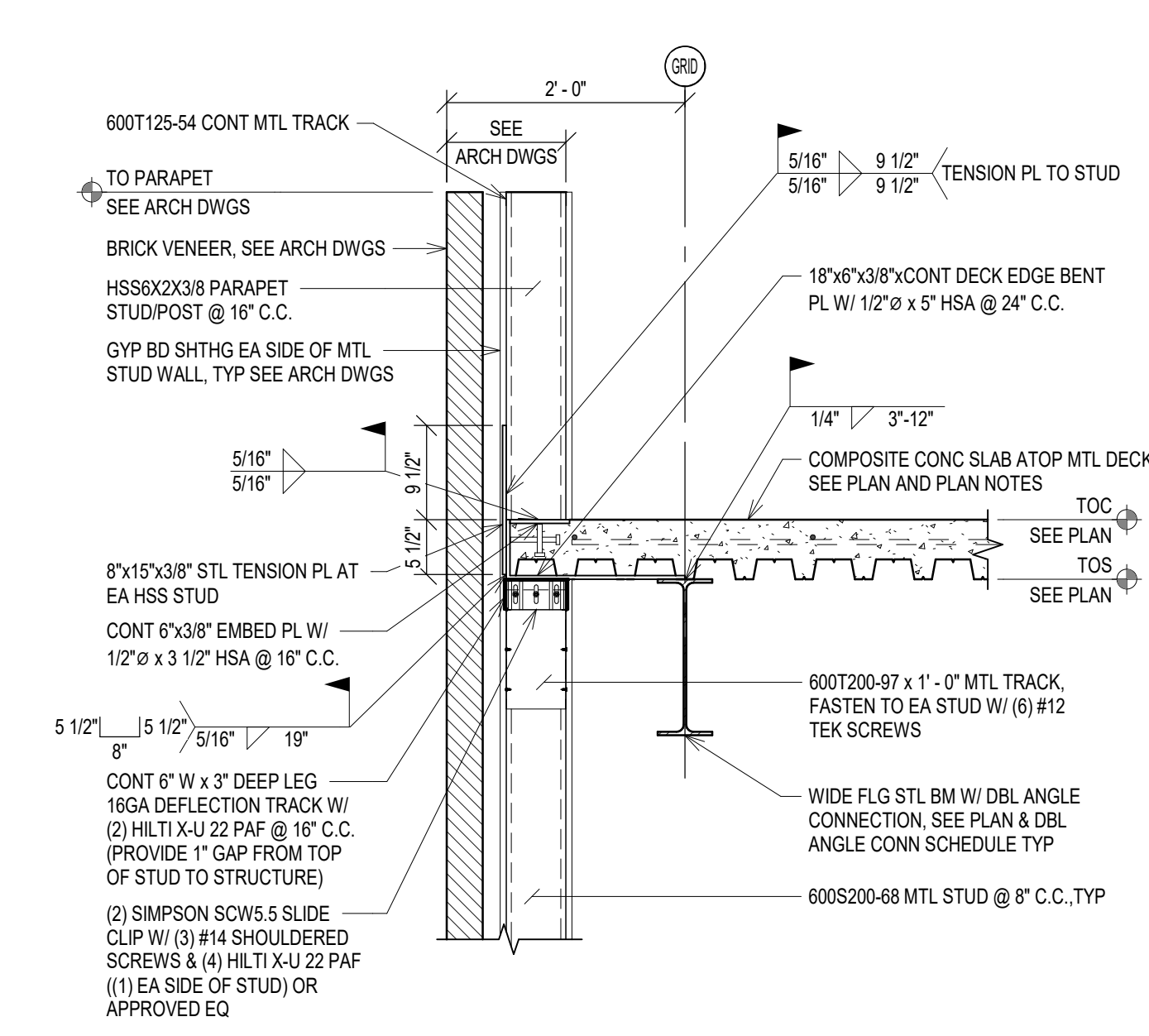
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SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



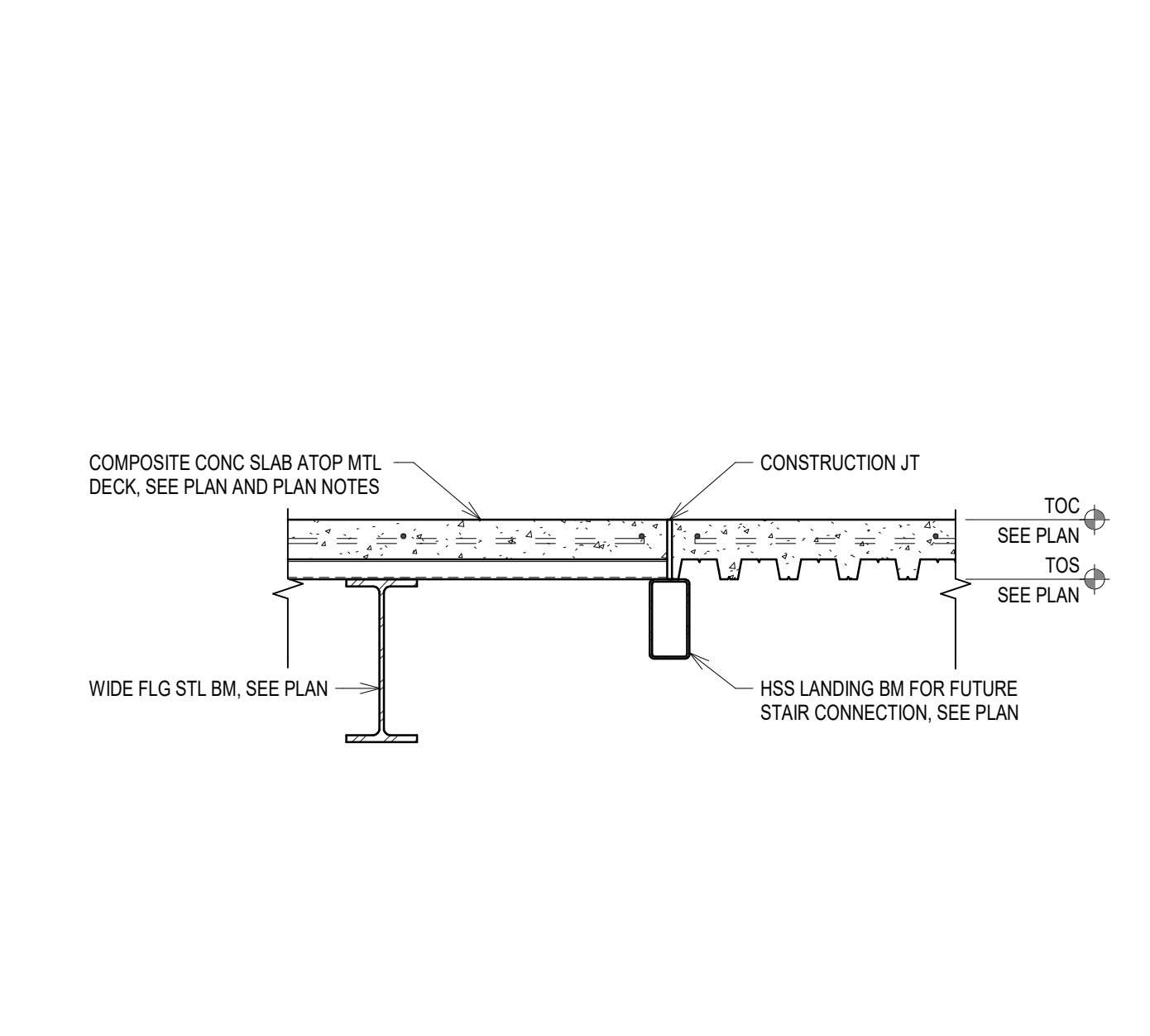
B8 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



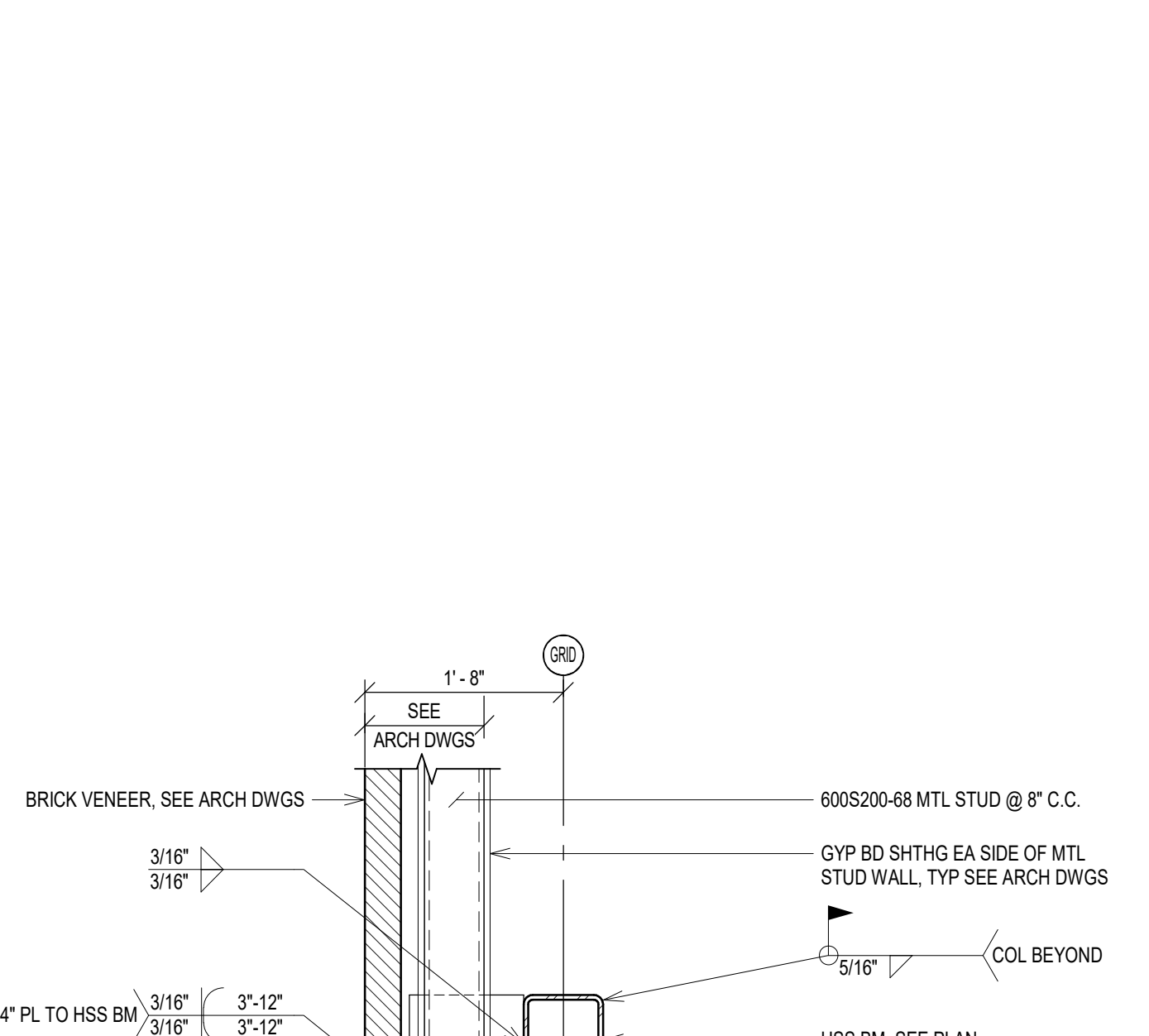
D1 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



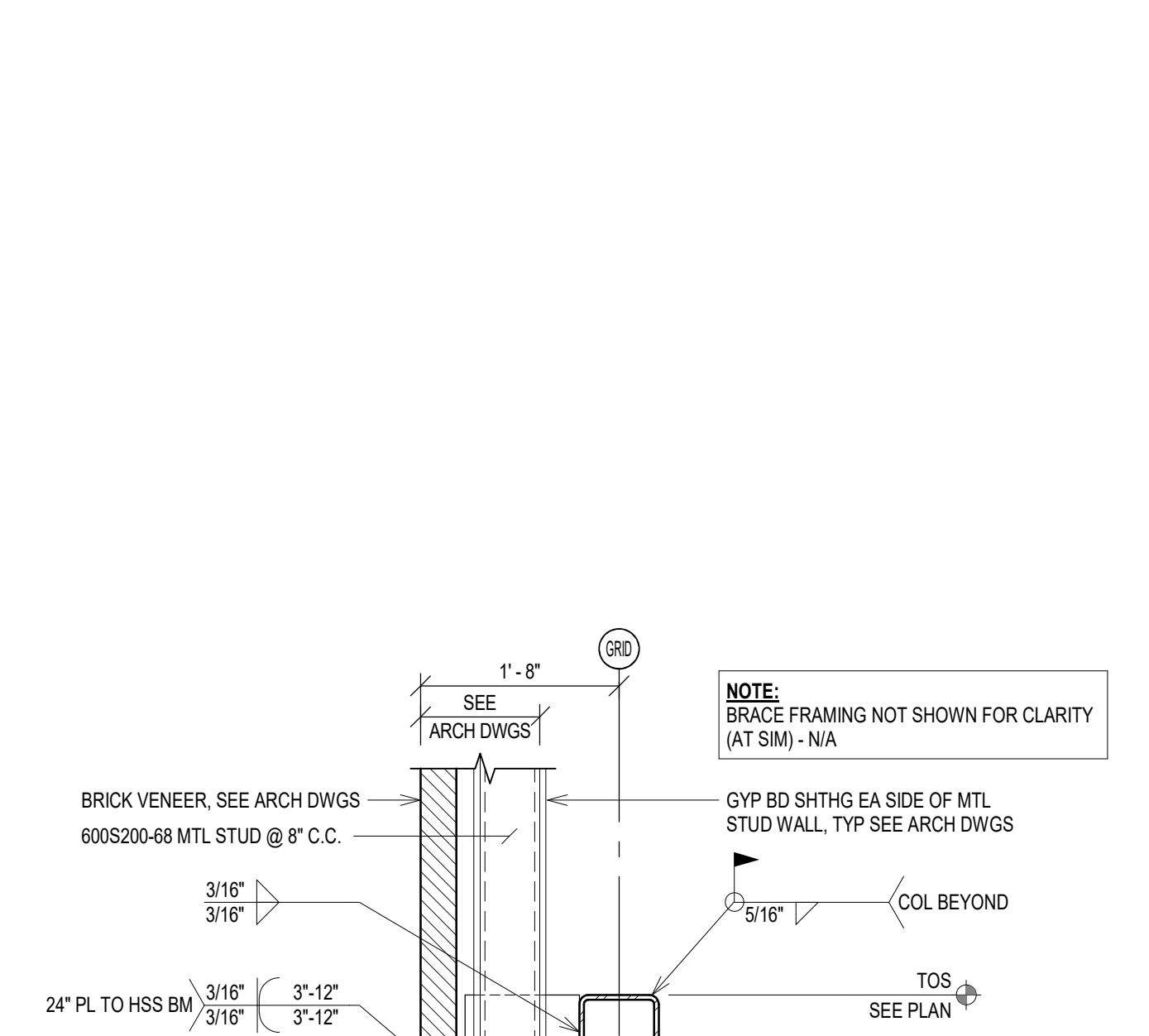
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SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



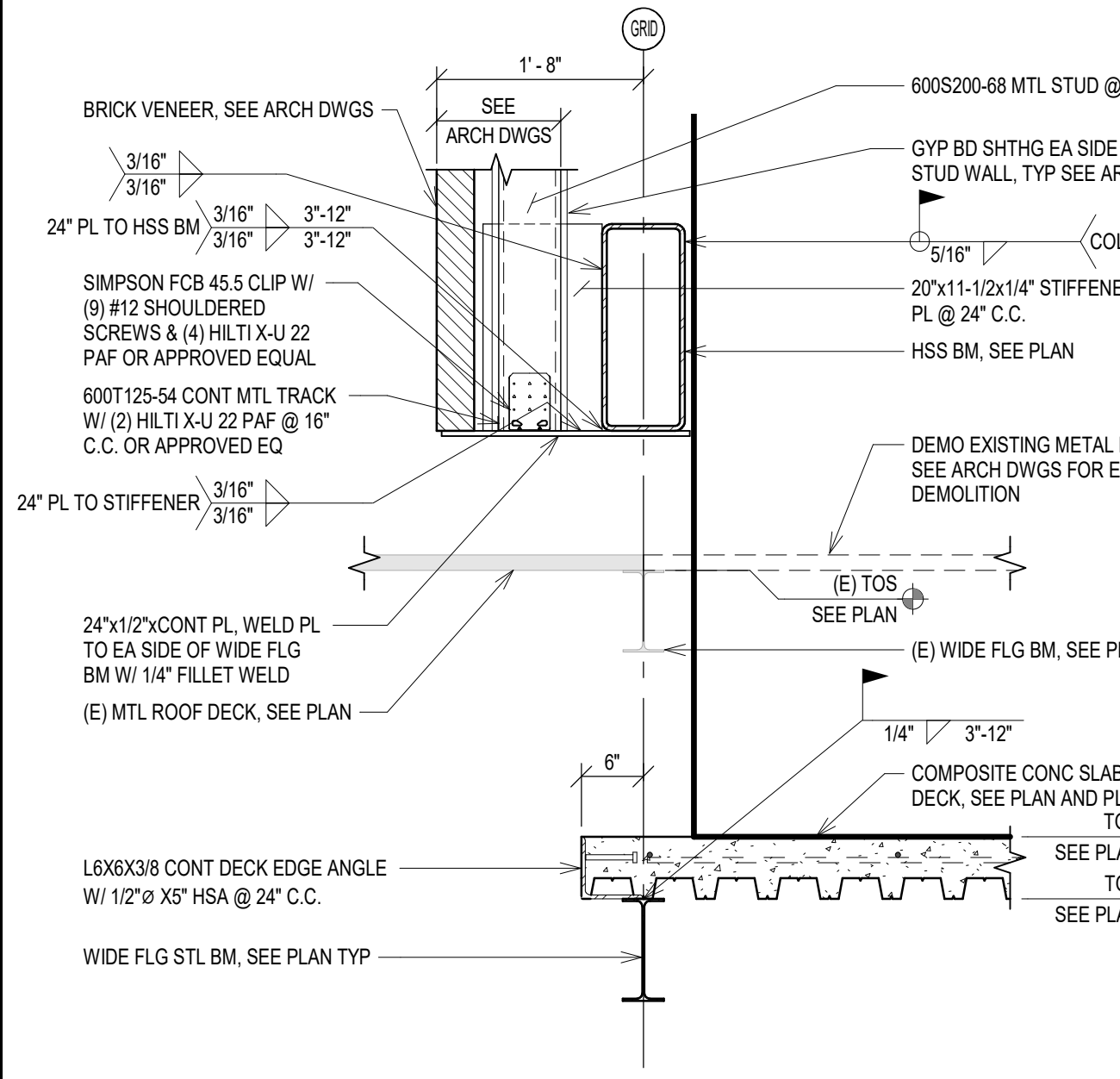
D4 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-104



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

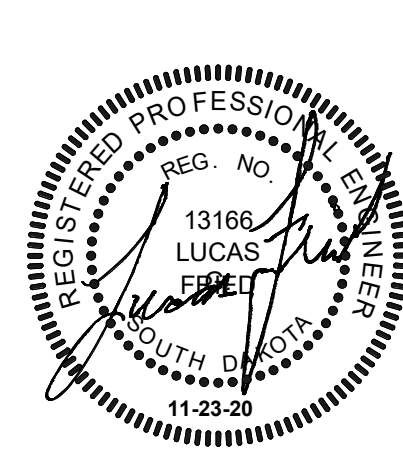


F8 FRAMING DETAIL
SCALE: 3/4" = 1'-0"
REFERENCED FROM: F1 / S-103



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

CONSULTANTS:	
 TERRASITE DESIGN 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	



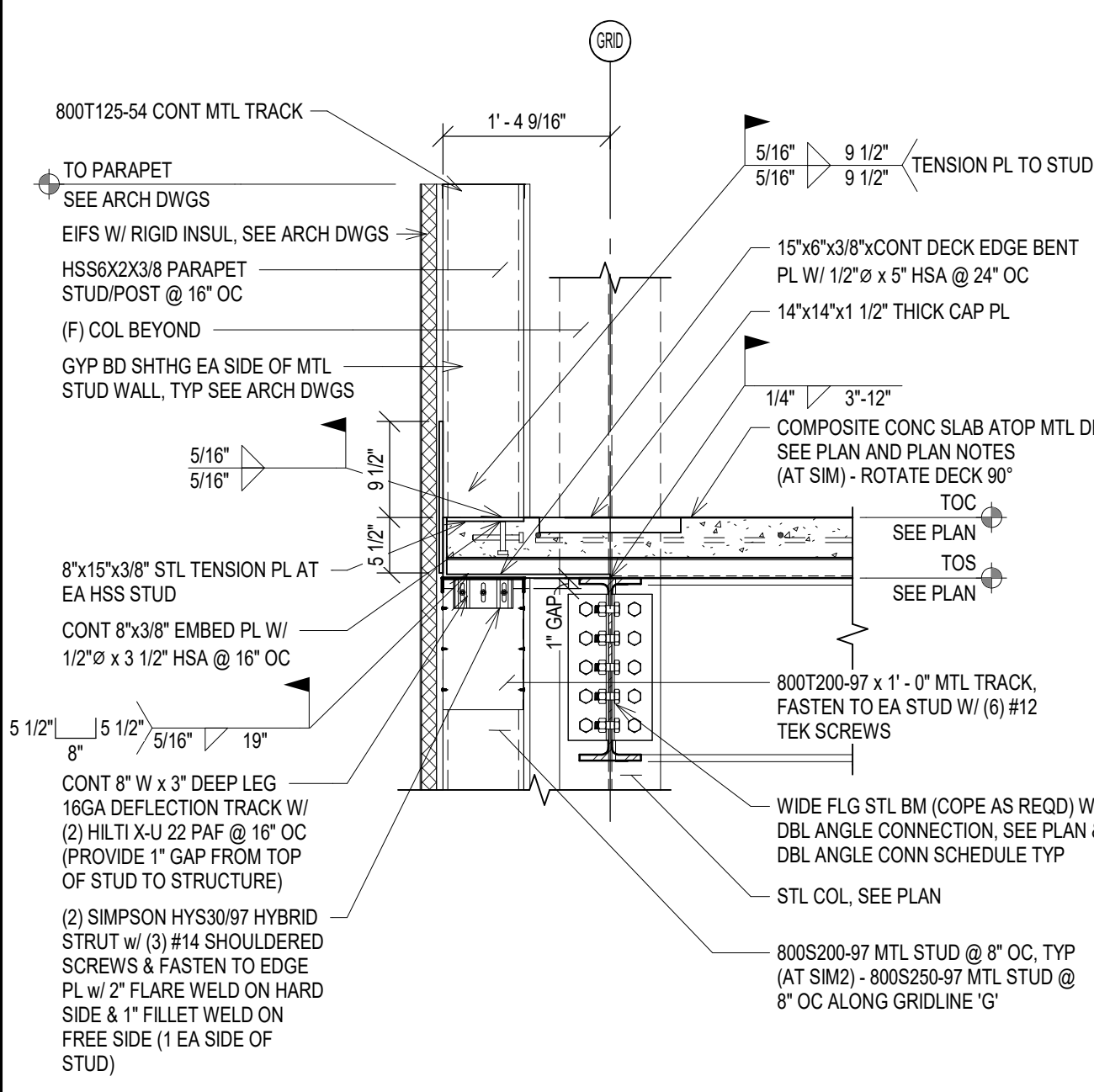
ARCHITECT	
 FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	

Drawing Title	DETAILS
Approved: Project Director	Omaha VA Medical Center
Drawing Number	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. 101 of 193	

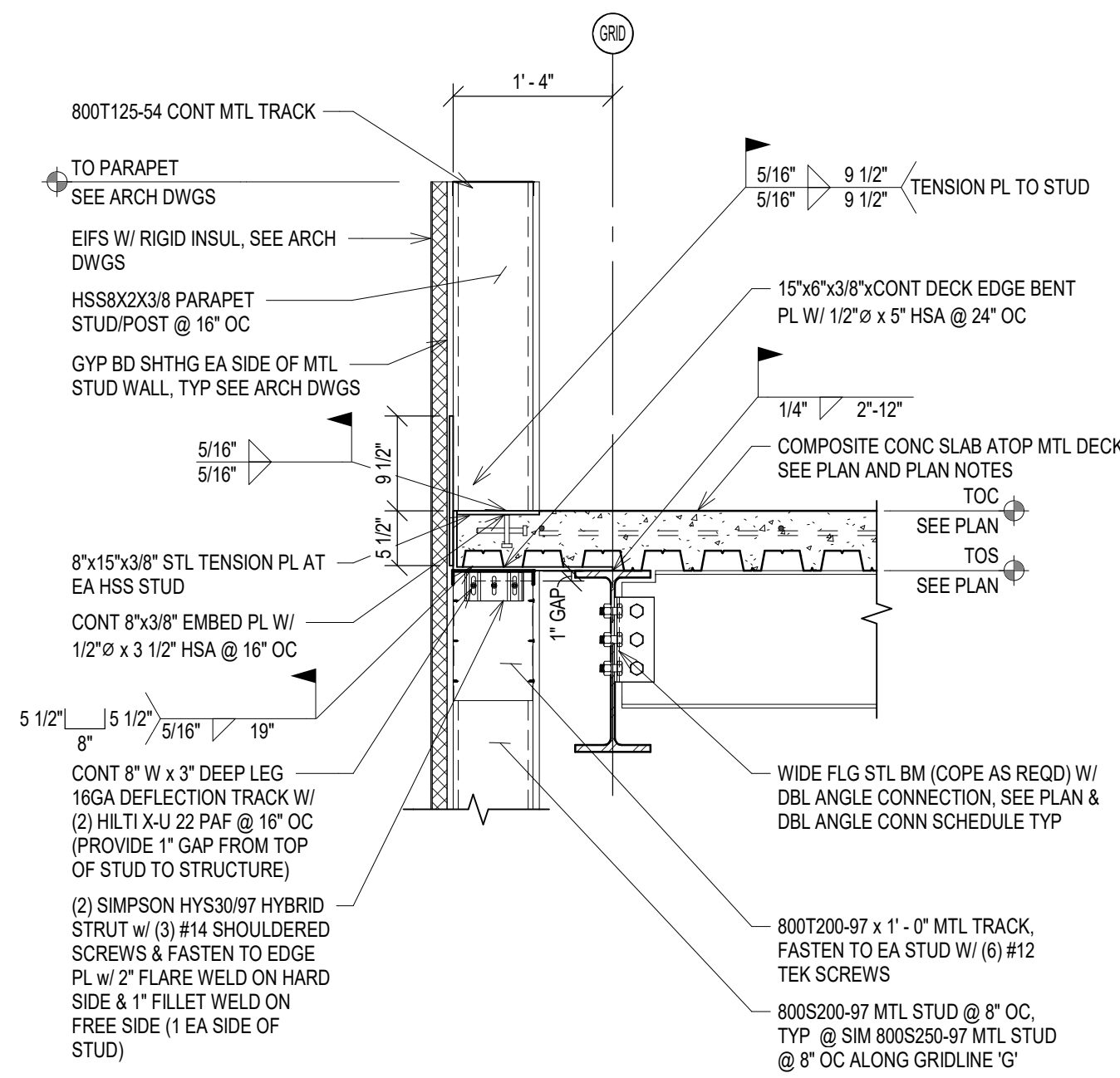
Office of Construction and Facilities Management
Department of Veterans Affairs

CONSTRUCTION DOCUMENTS



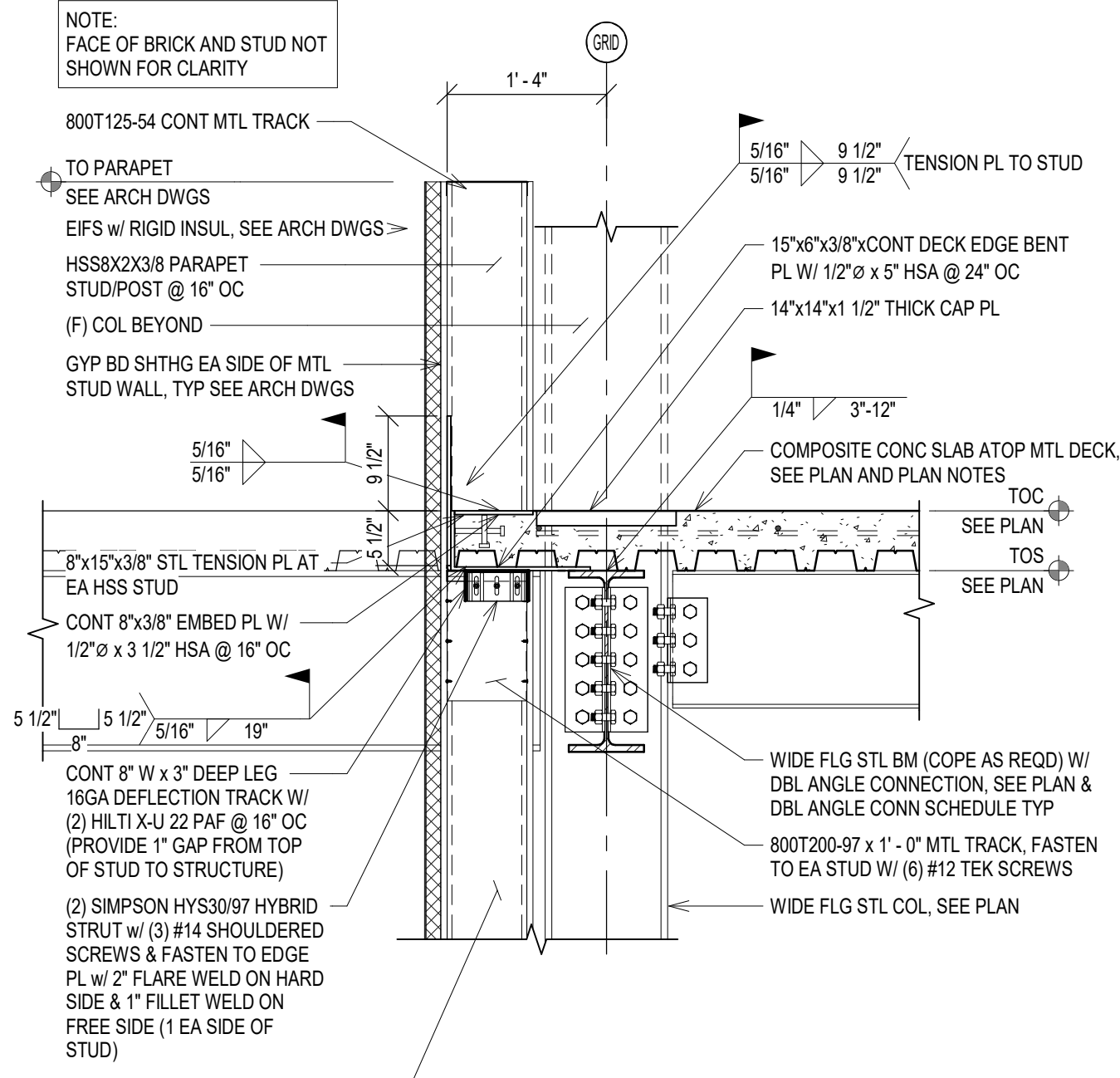
B1 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-104.1



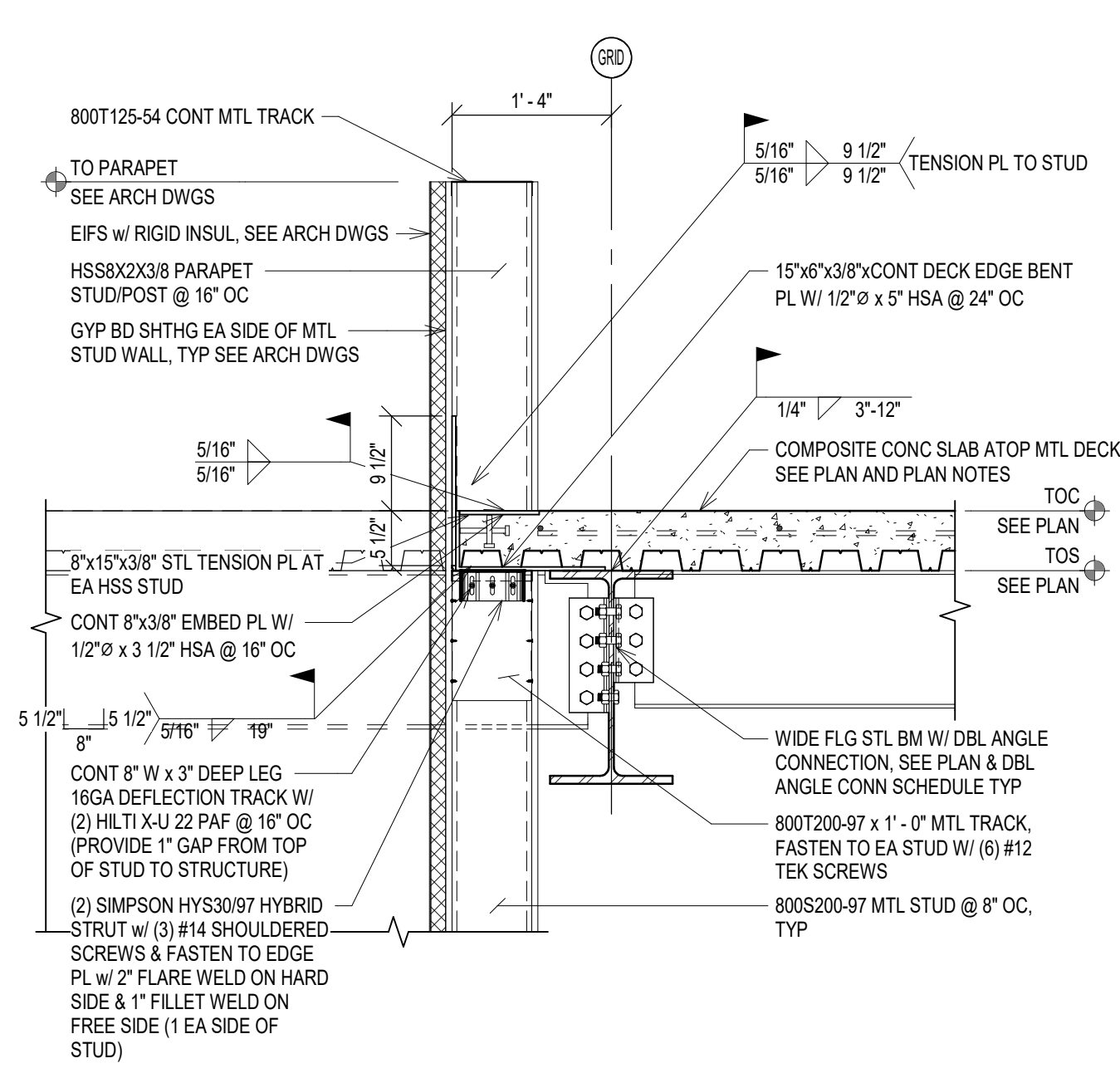
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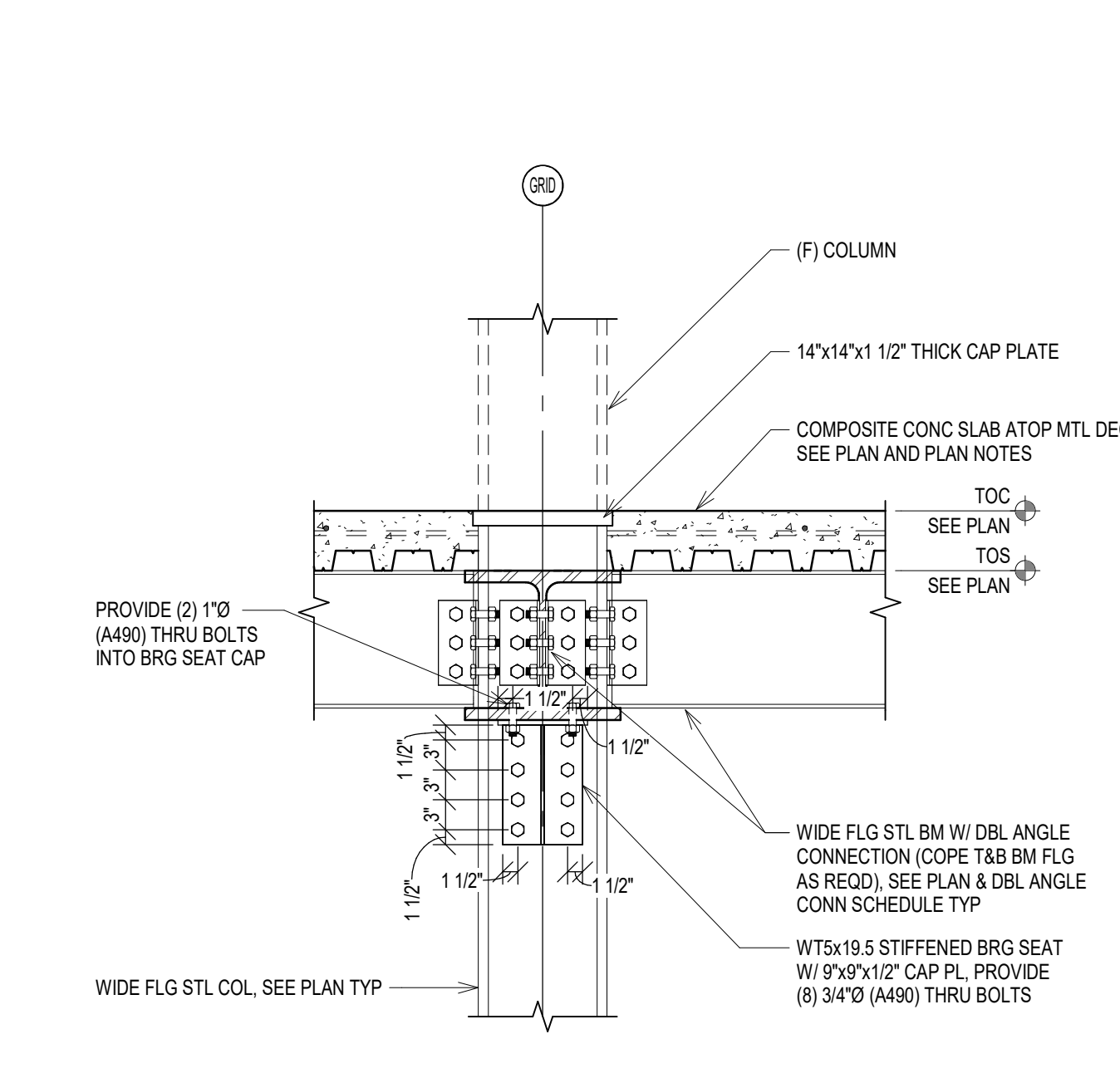
B4 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-104.1



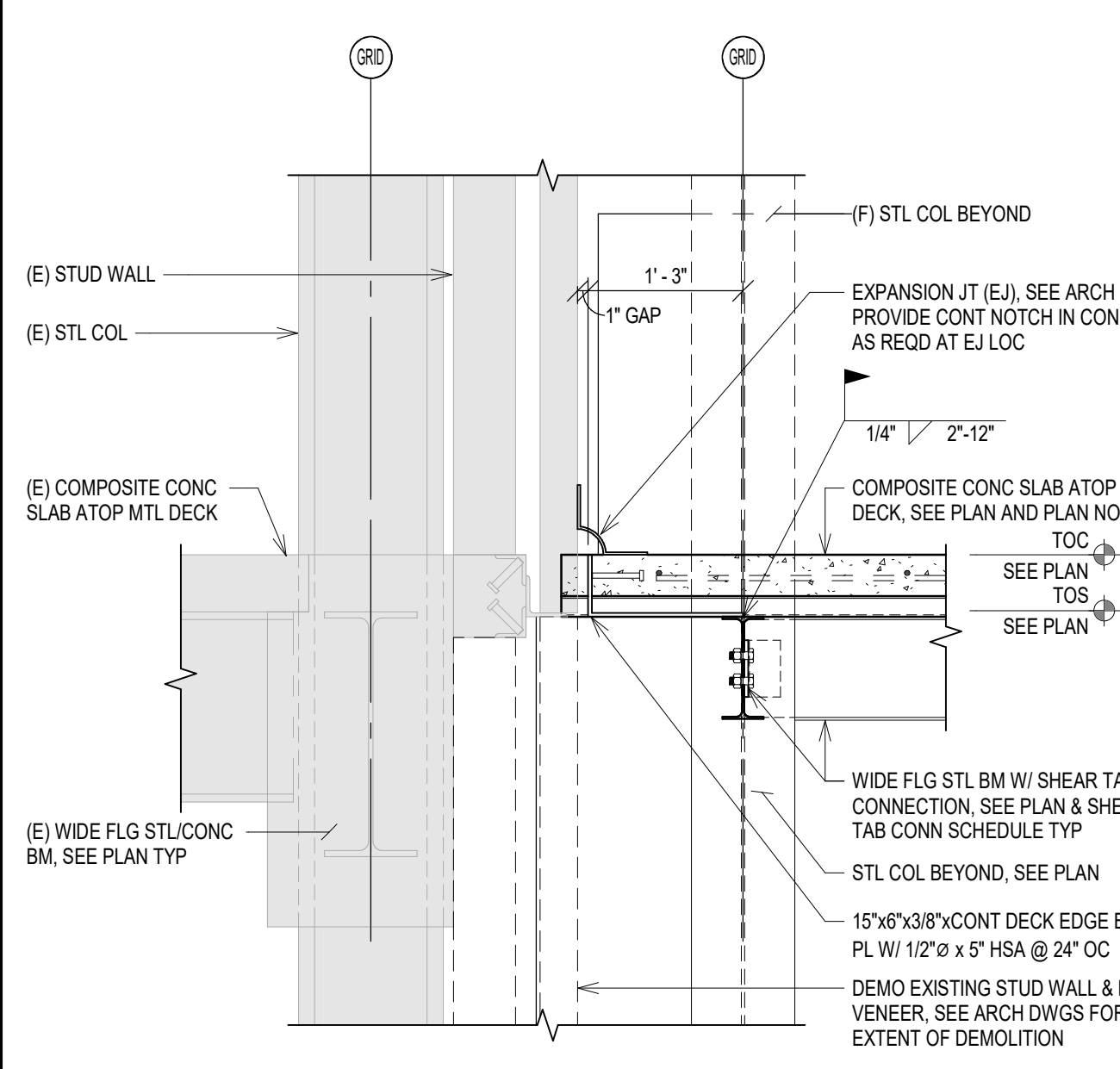
B6 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-104.1



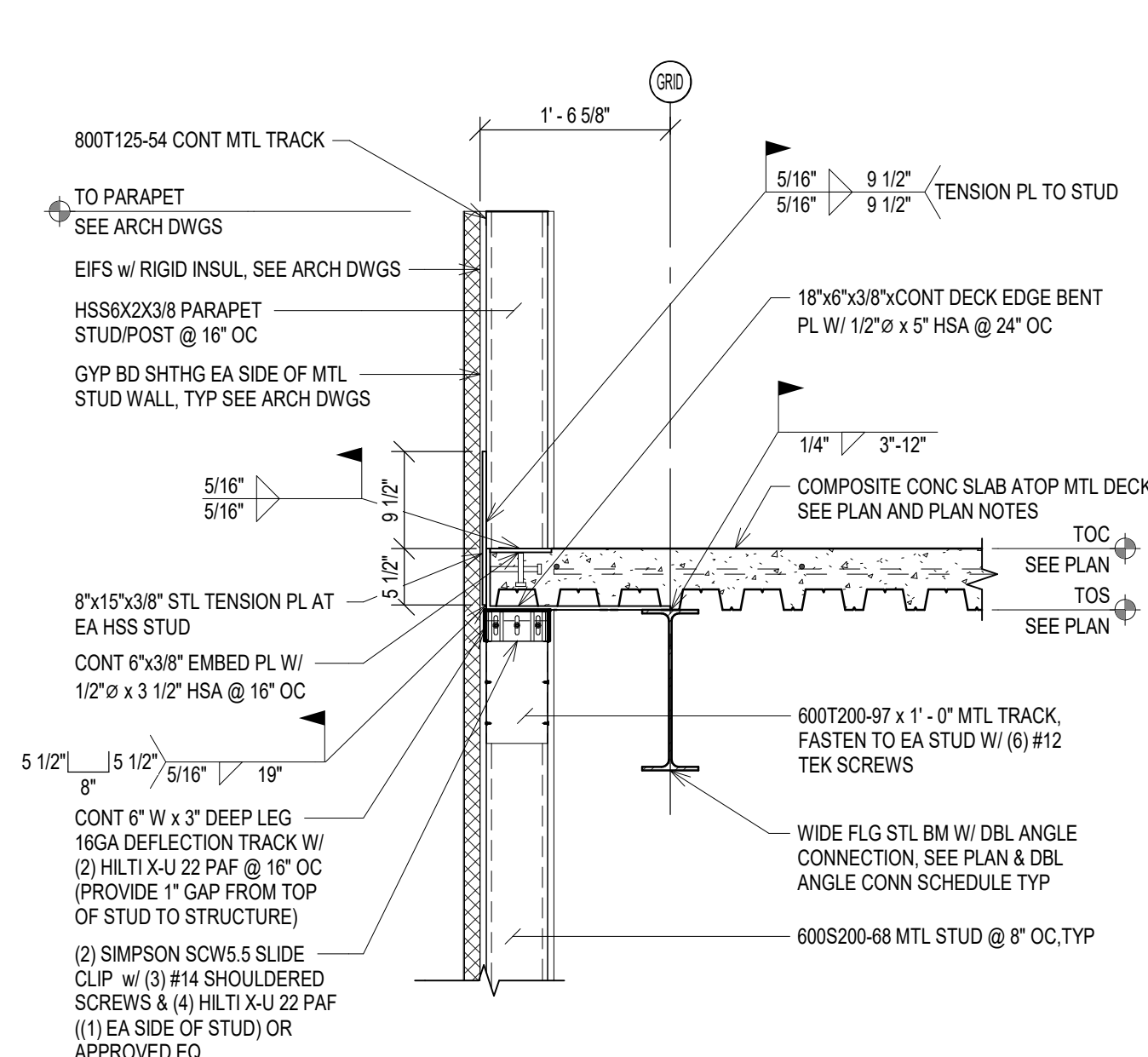
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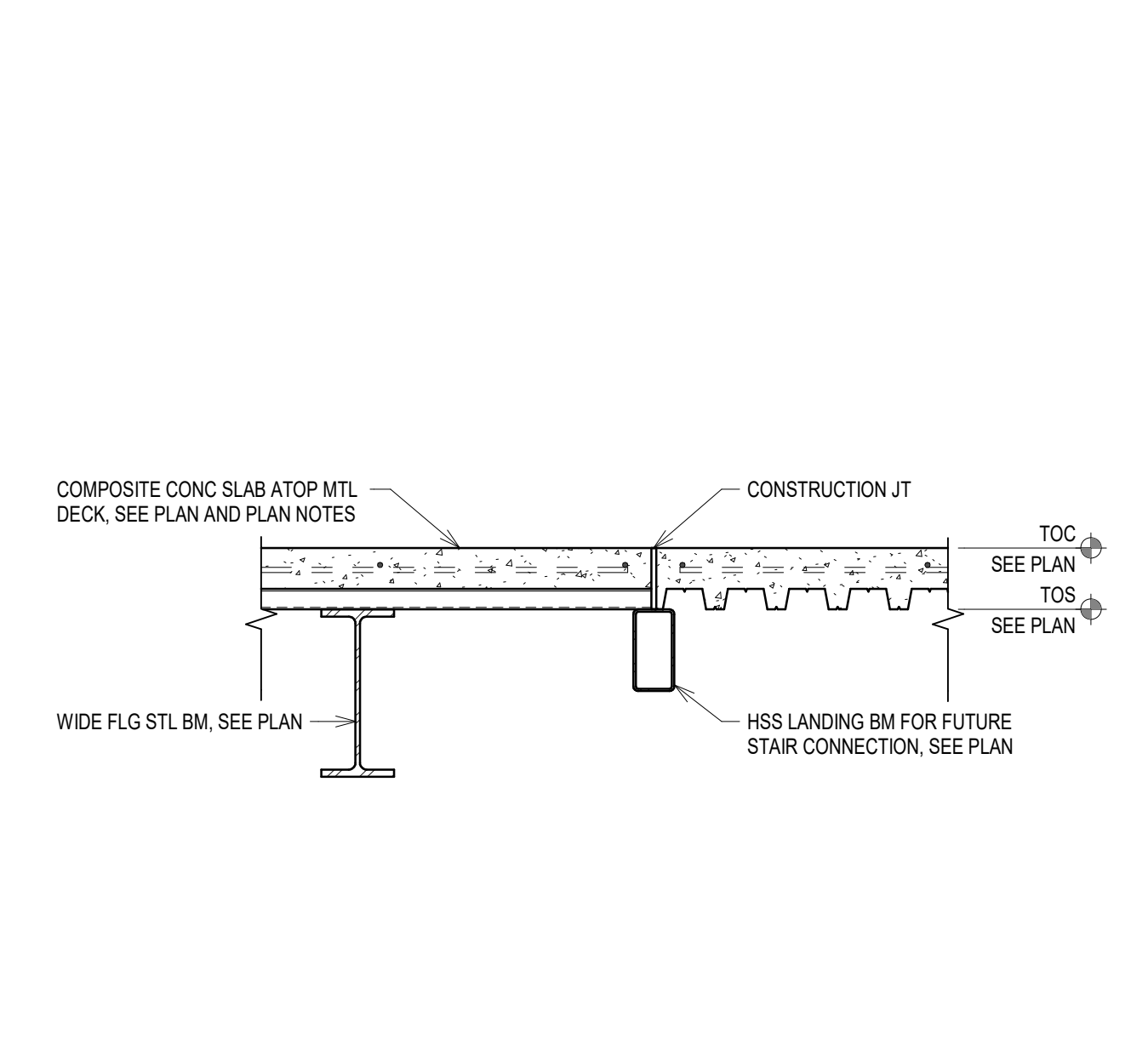
D1 FRAMING DETAIL

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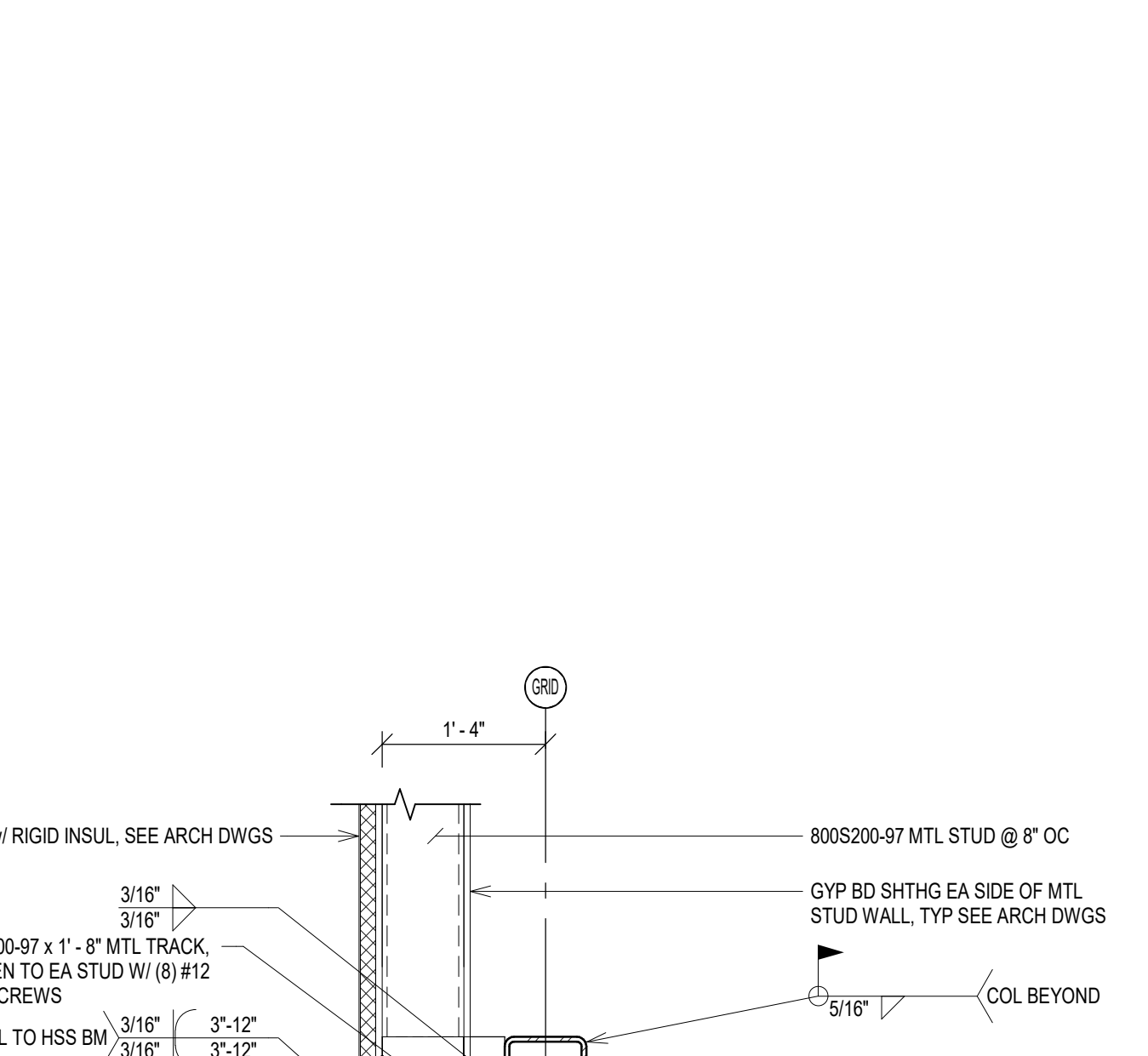
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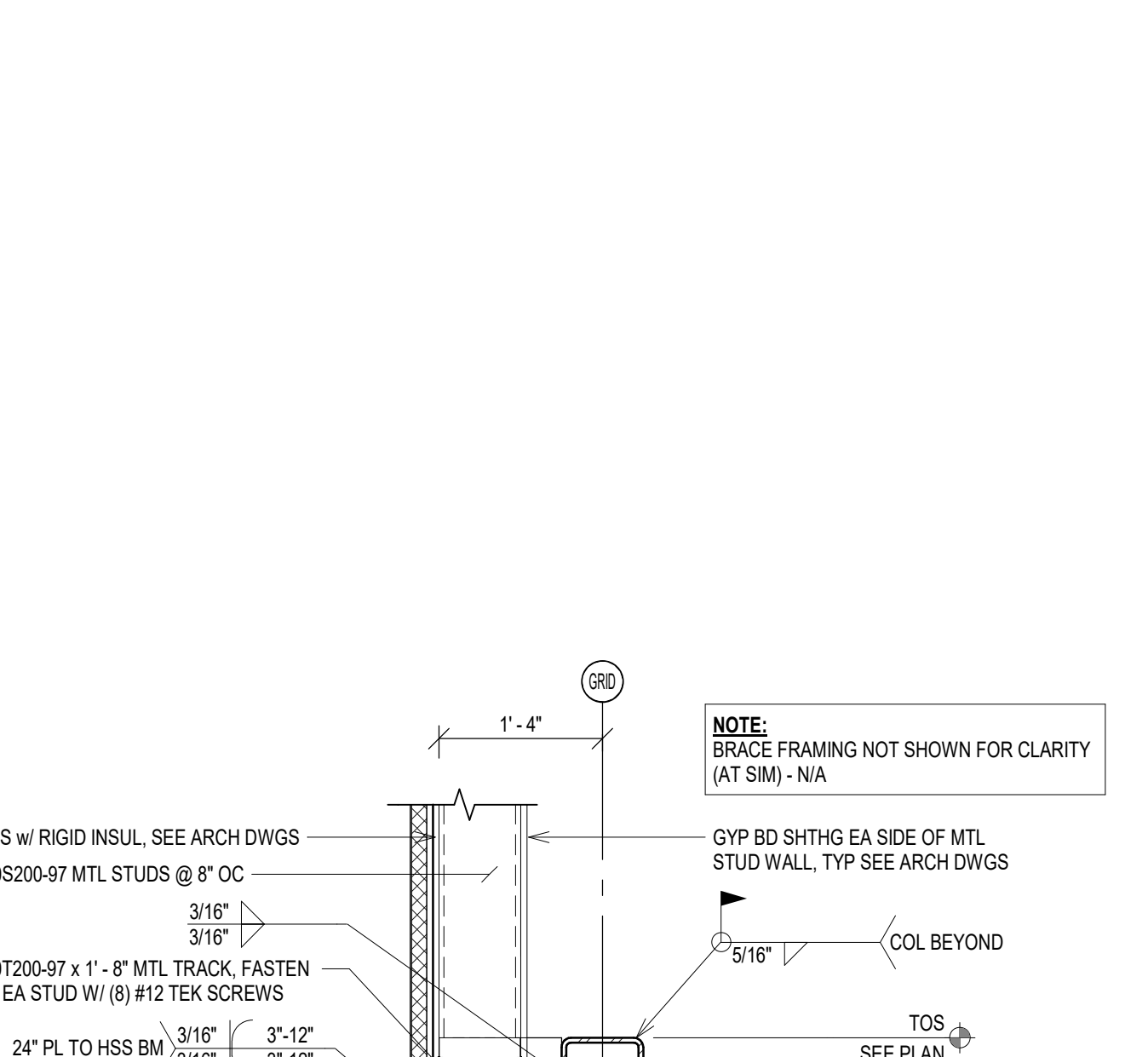
D4 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-104.1



F6 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-103.1



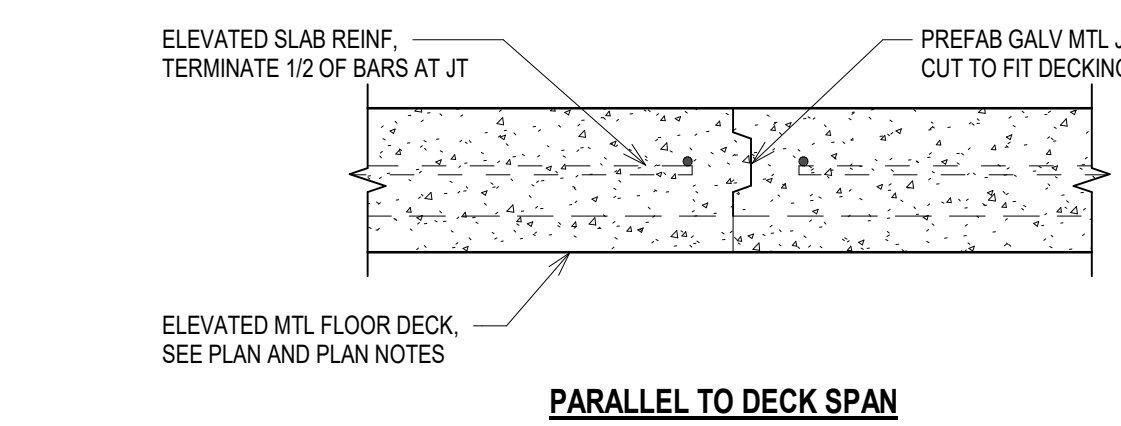
F8 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-103.1

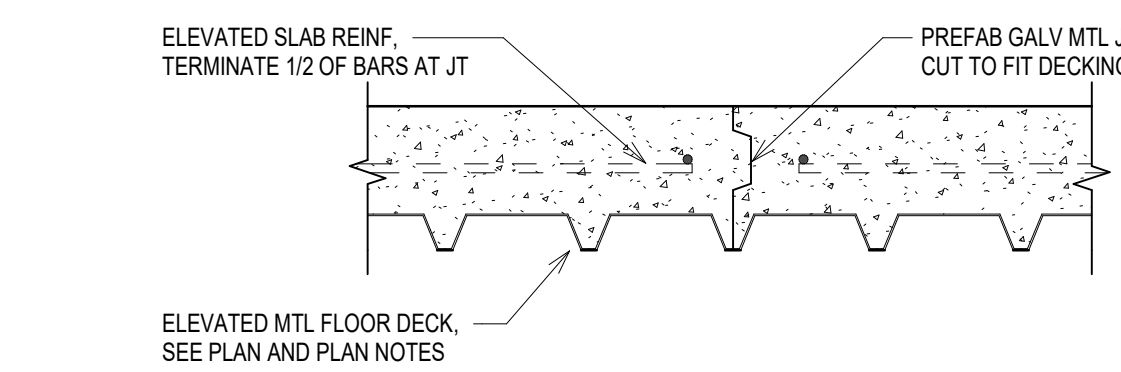
F1 FRAMING DETAIL

SCALE: 3/4" = 1'-0" REFERENCED FROM: F1 / S-103.1

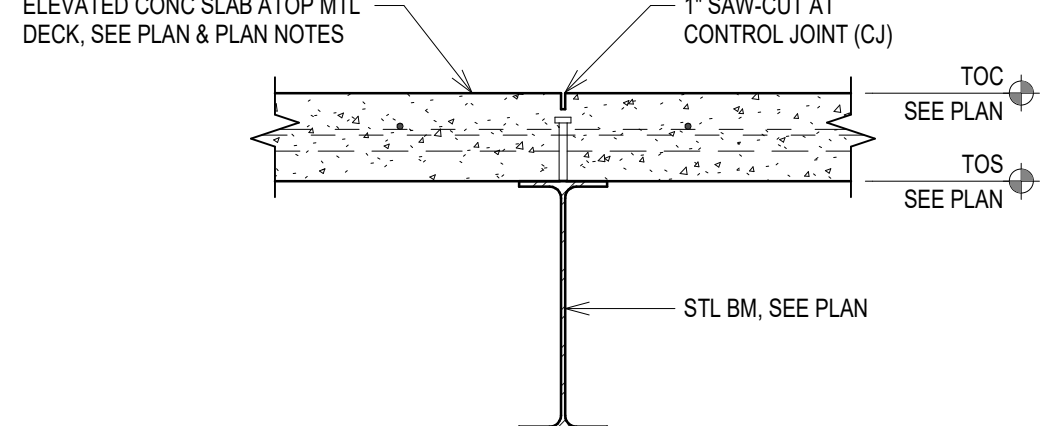
CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900			ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	Drawing Title DETAILS - ALTERNATIVE BID #2 & #5 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-503.1 Dwg. 102 of 193	Office of Construction and Facilities Management Department of Veterans Affairs
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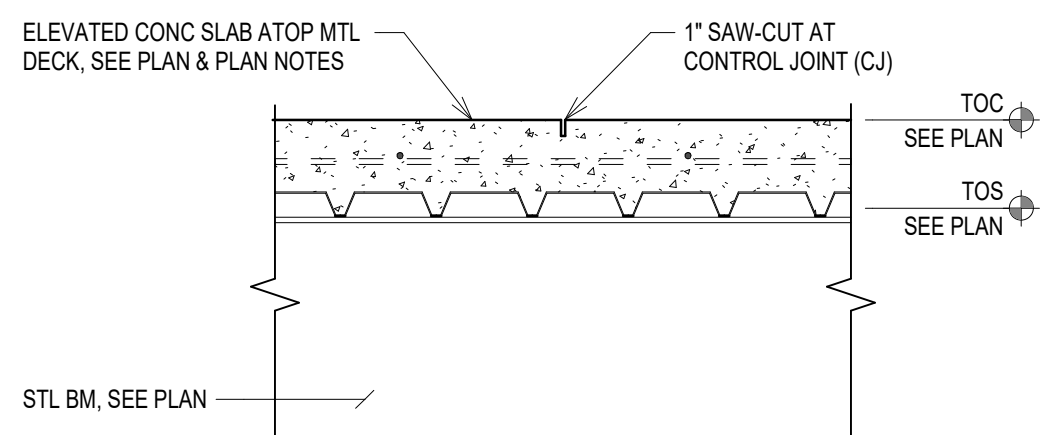
PARALLEL TO DECK SPAN



PERPENDICULAR TO DECK SPAN

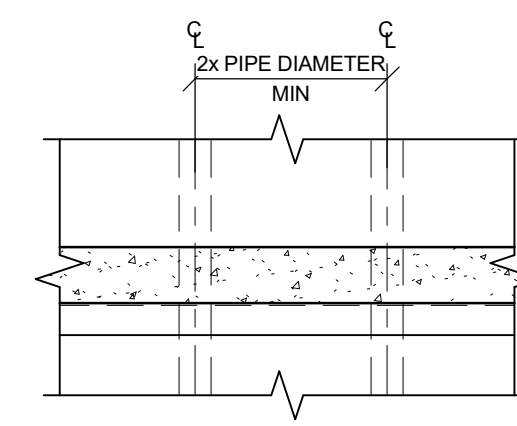
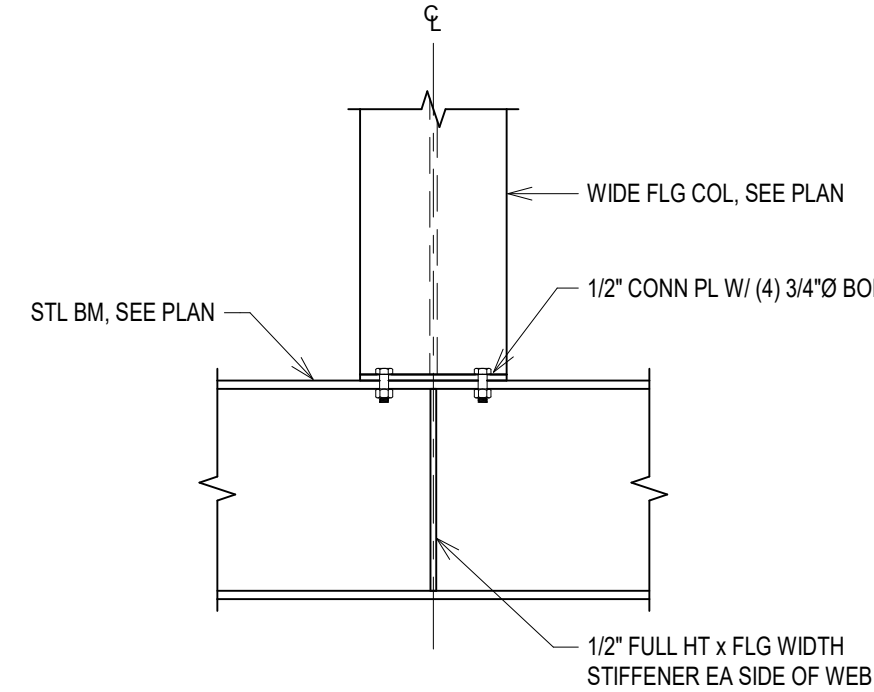
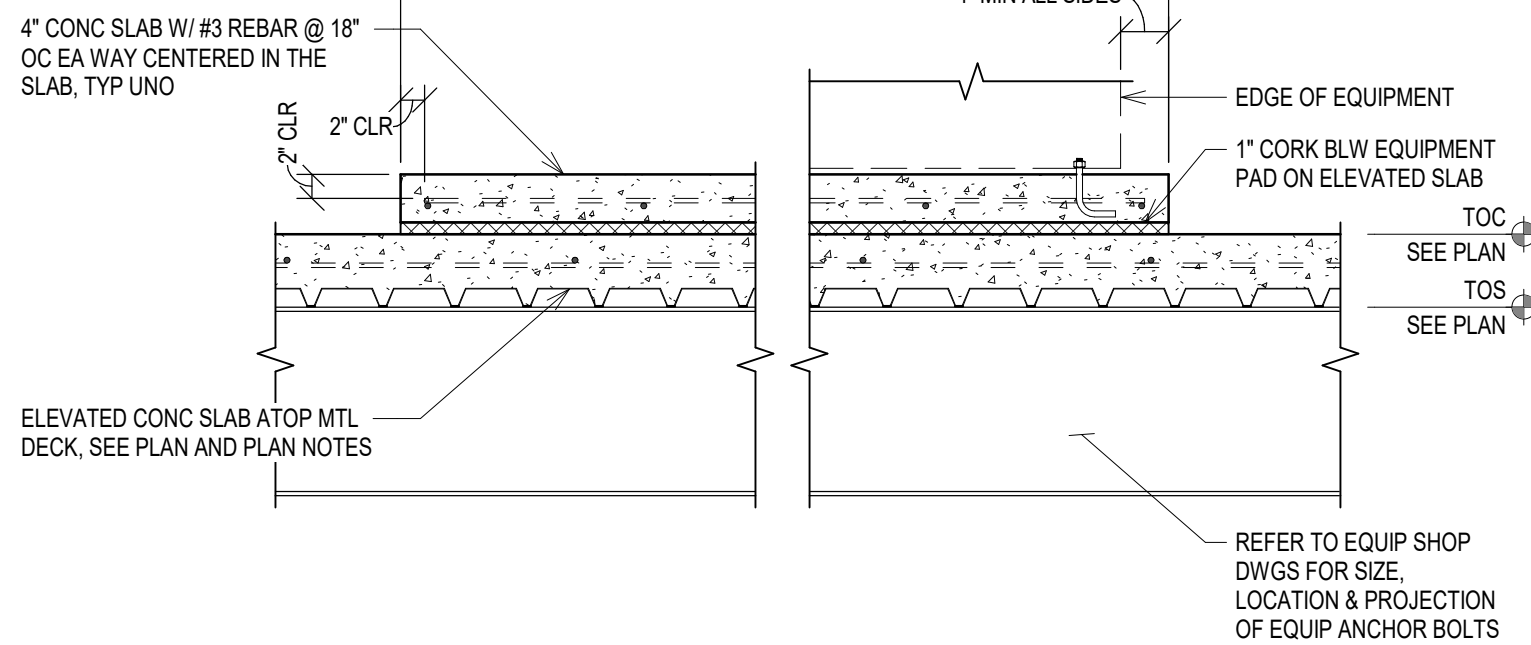


SAW-CUT PARALLEL TO BEAM

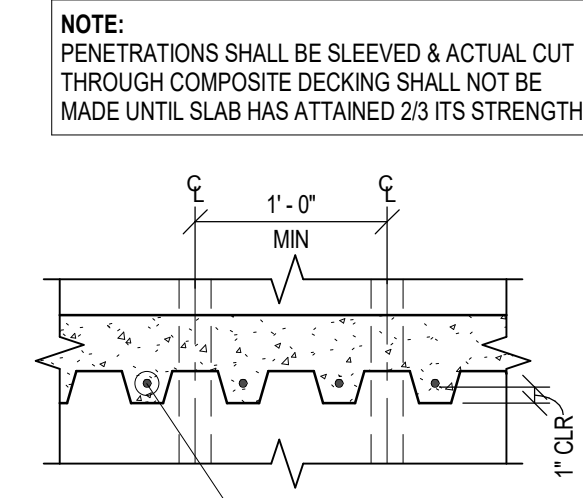


SAW-CUT PERPENDICULAR TO BEAM

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



LINE OF PENETRATIONS PARALLEL TO DECK



LINE OF PENETRATIONS PERP TO DECK

TYP ELEV SLAB KEYED CONSTRUCTION JT

SCALE: NTS

TYP ELEV SLAB SAW-CUT

SCALE: NTS

TYP EQUIP PAD - INTERIOR

SCALE: NTS

TYP WIDE FLG COL ATOP WIDE FLG BEAM

SCALE: NTS

TYP ELEVATED DECK PENETRATION

SCALE: NTS

LINTEL SCHEDULE						
MARK	HORIZONTAL LINTEL BOTTOM OF OPENING STUDS	TRACKS	HORIZONTAL LINTEL TOP OF OPENING STUDS	TRACKS	VERTICAL MEMBERS EACH SIDE OF OPENING JACK	FULL HEIGHT
L1	(2) 800S162-68	(2) 800T125-54	(2) 800S162-68	(2) 800S125-54	(1) 800S162-68	(3) 800S200-68
L2	(2) 800S162-68	(2) 800T125-54	(2) 800S162-68	(2) 800S125-54	(1) 800S162-68	(4) 800S200-68
L3	HSS8X6X5/16	N/A	HSS8X6X5/16	N/A	N/A	HSS8X3X5/16
L4	HSS8X6X5/16	N/A	HSS10X6X5/16	N/A	N/A	HSS8X3X5/16
L5	N/A	N/A	HSS10X6X5/16	N/A	N/A	HSS8X3X5/16
L6	N/A	N/A	N/A	N/A	N/A	N/A

SEE LINTEL SECTION L-1
SEE JAMB SECTION J-1

SEE LINTEL SECTION L-1
SEE JAMB SECTION J-1

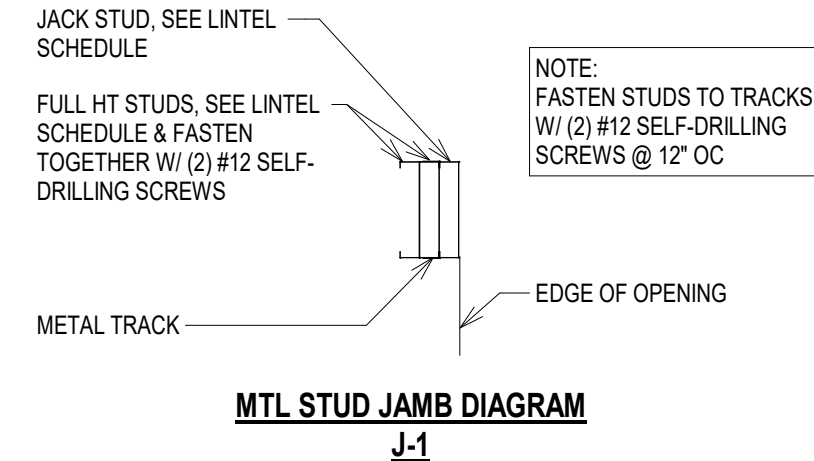
SEE LINTEL SECTION L-2
SEE JAMB SECTION J-2
SEE NOTES 4.5 & 6

SEE LINTEL SECTION L-2
SEE JAMB SECTION J-2
SEE NOTES 4.5 & 6

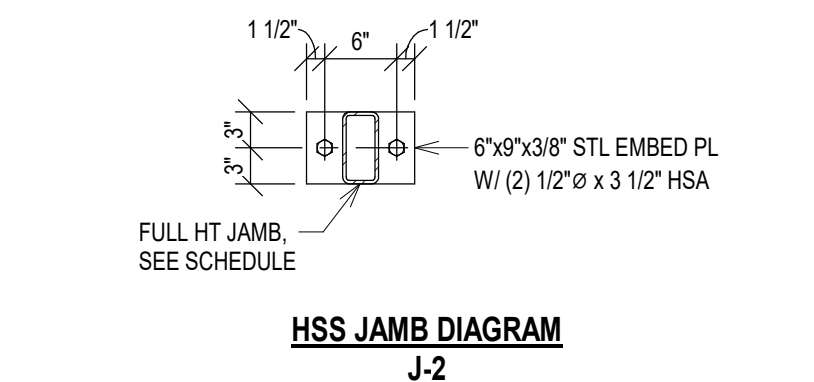
SEE LINTEL SECTION L-2
SEE JAMB SECTION J-3
SEE NOTES 5.8 & 6

SEE LINTEL SECTION L-3
AND SECTION NOTES

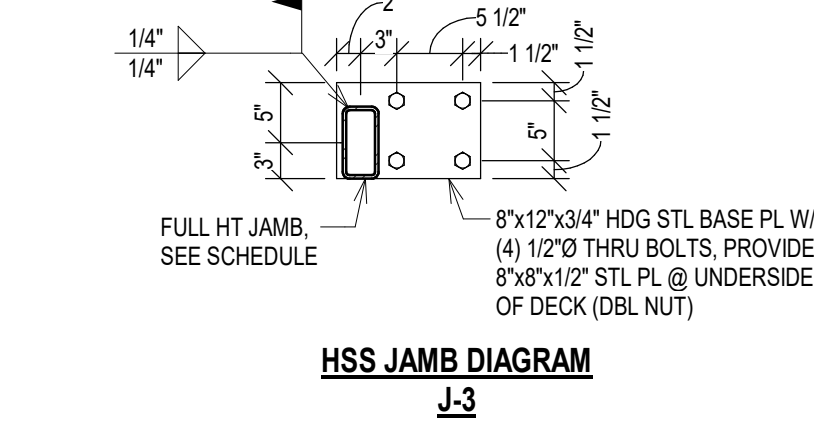
ADDITIONAL REMARKS:
1. PROVIDE UNPUNCHED MATERIAL FOR LINTEL BEAMS.
2. BRICK LINTEL ANGLES SHALL BEAR 8" ON EA SIDE OF OPENING.
3. WELD BOTTOM OF JAMB COLUMN TO STEEL EMBED PLATE WITH 1/4" FILLET WELD EACH SIDE. SEE ALSO EMBED PLATE DIAGRAM JZ.
4. ATTACH TOP OF JAMB COLUMN TO KNEE PLATE WITH (1) 3/4" THRU BOLT.
5. WELD LINTEL TUBE TO JAMB COLUMN WITH 1/4" FILLET WELD ALL AROUND.
6. EACH FULL HEIGHT JAMB MTL STUD SHALL BE ATTACHED AT THE BOT WITH SIMPSON FC845 S CLIPS WITH (9) #12-14 SELF-DRILLING SCREWS & AT THE TOP WITH SIMPSON SOWS S CLIPS WITH (3) #14 SHOULDERED SCREWS INTO STUDS & (4) #12-14 SELF-DRILLING SCREWS INTO JAMB INTO SUPPORT OR APPROVED EQ.



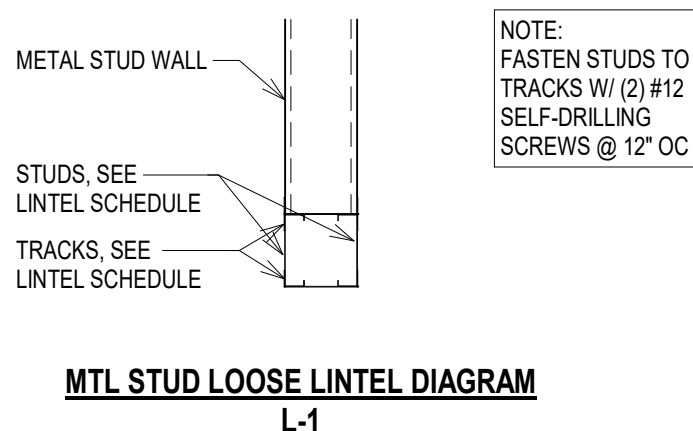
MTL STUD JAMB DIAGRAM J-1



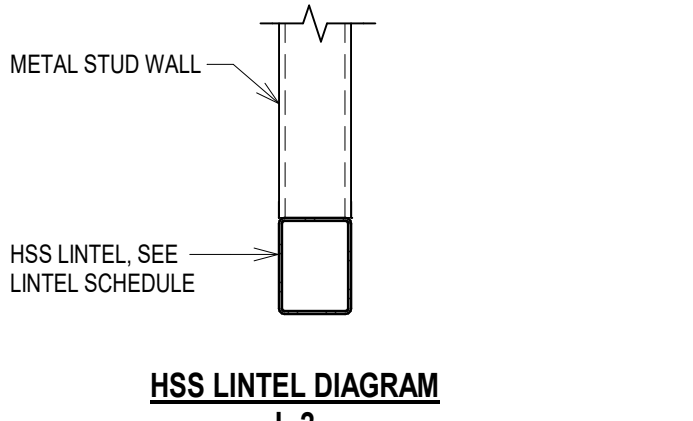
HSS JAMB DIAGRAM J-2



HSS JAMB DIAGRAM J-3



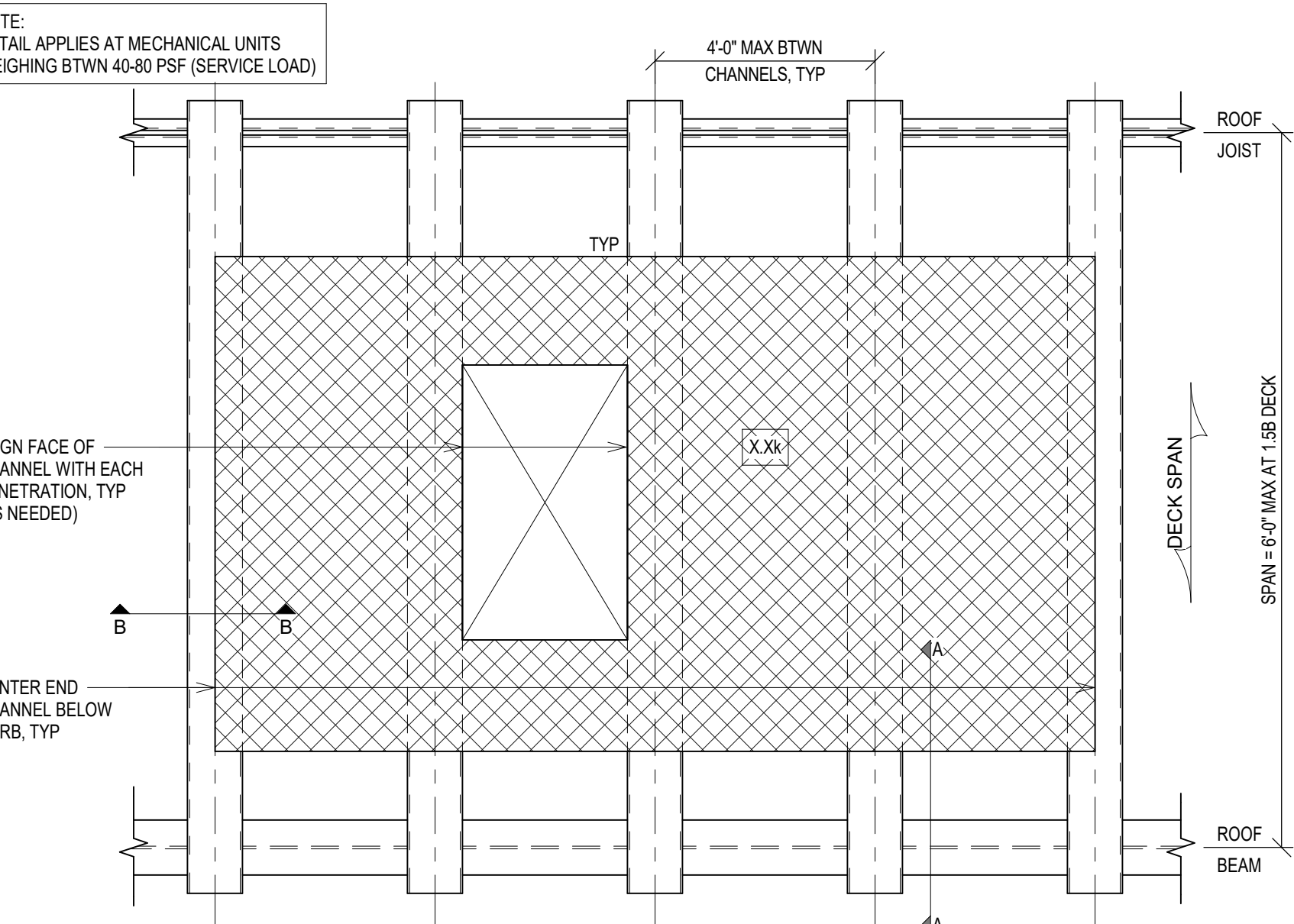
MTL STUD LOOSE LINTEL DIAGRAM L-1



HSS LINTEL DIAGRAM L-2

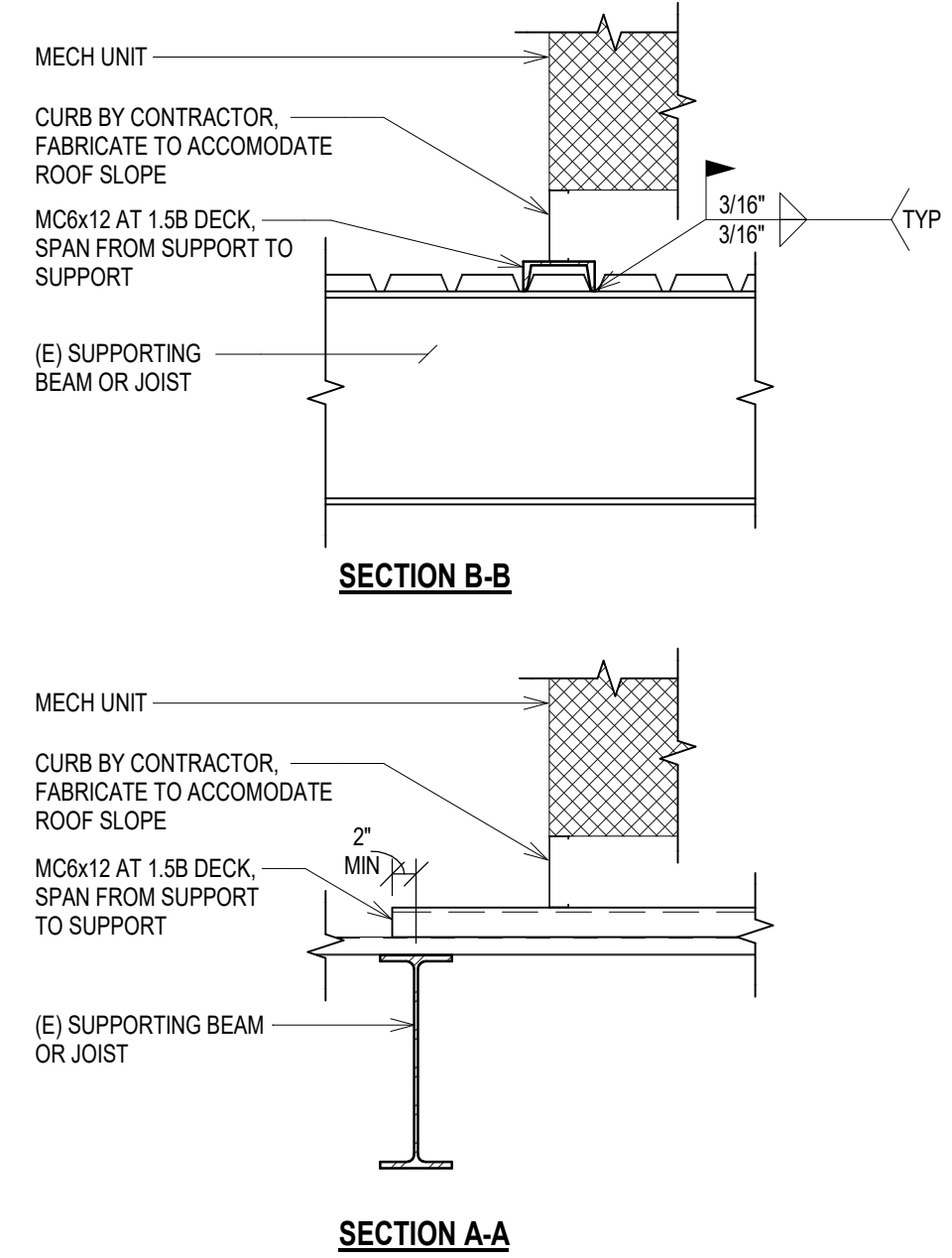
SCHEDULE - LINTEL

SCALE: NTS



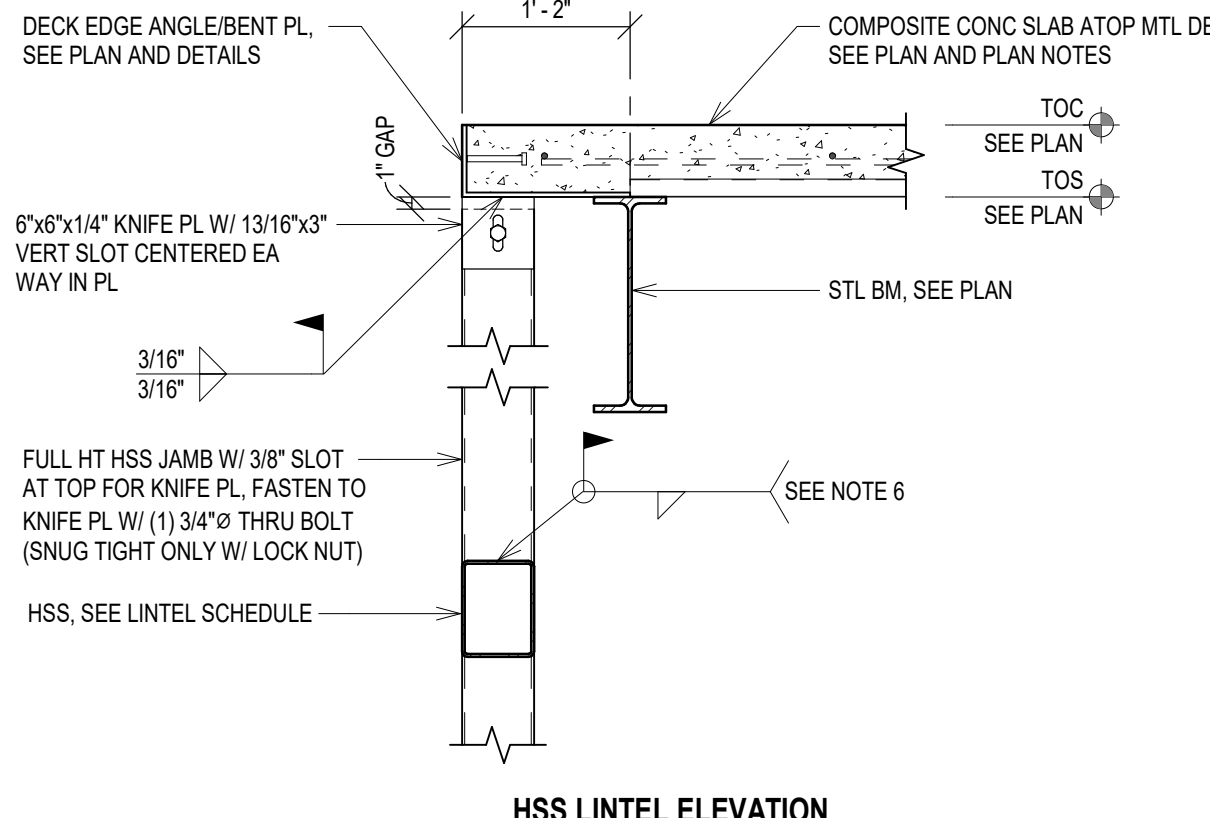
TYP AT ROOF TOP UNITS ON (E) ICU ADDITION (BTWN GRIDS 7 & 8)

SCALE: NTS

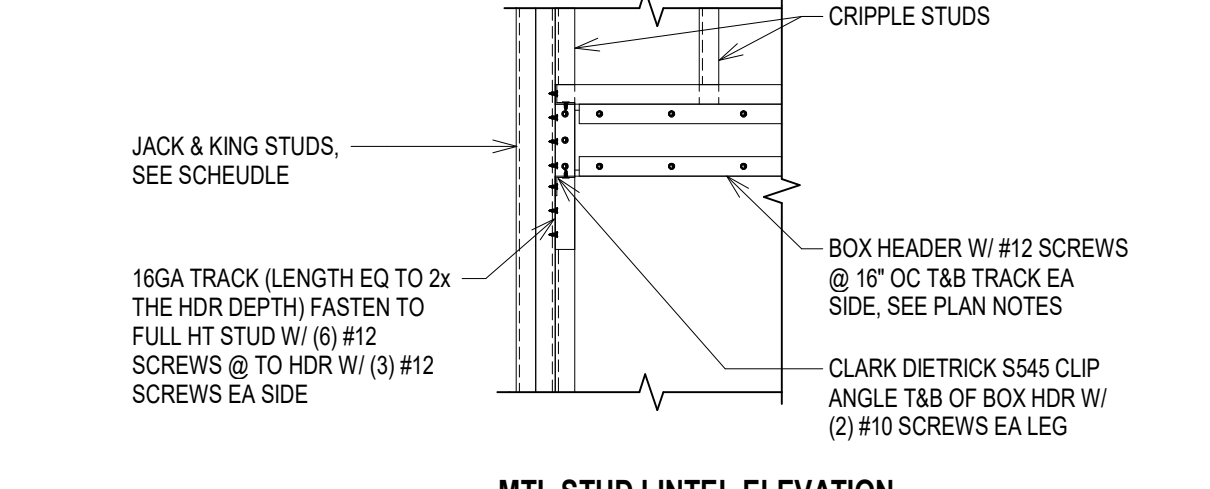


SECTION B-B

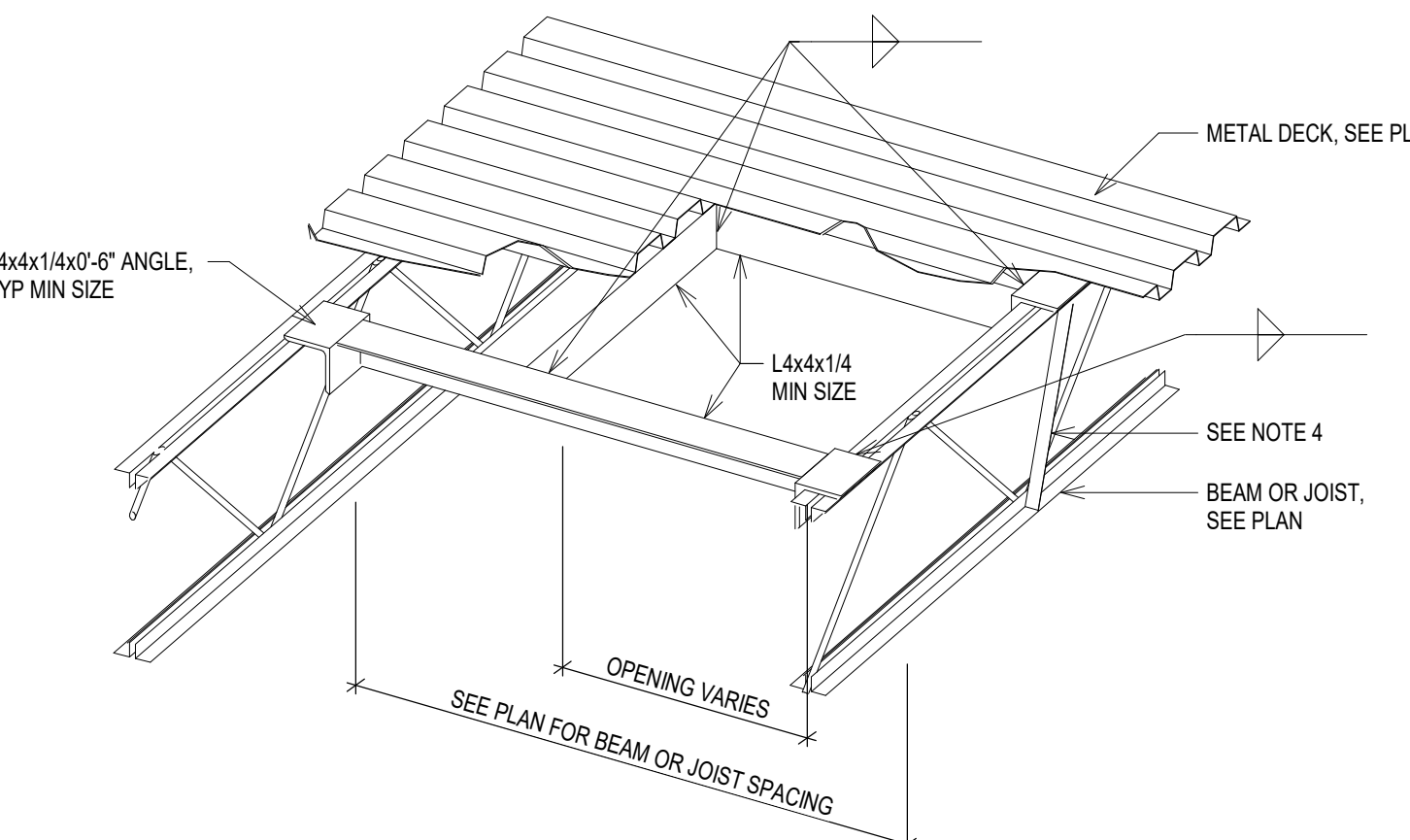
SECTION A-A



HSS LINTEL ELEVATION



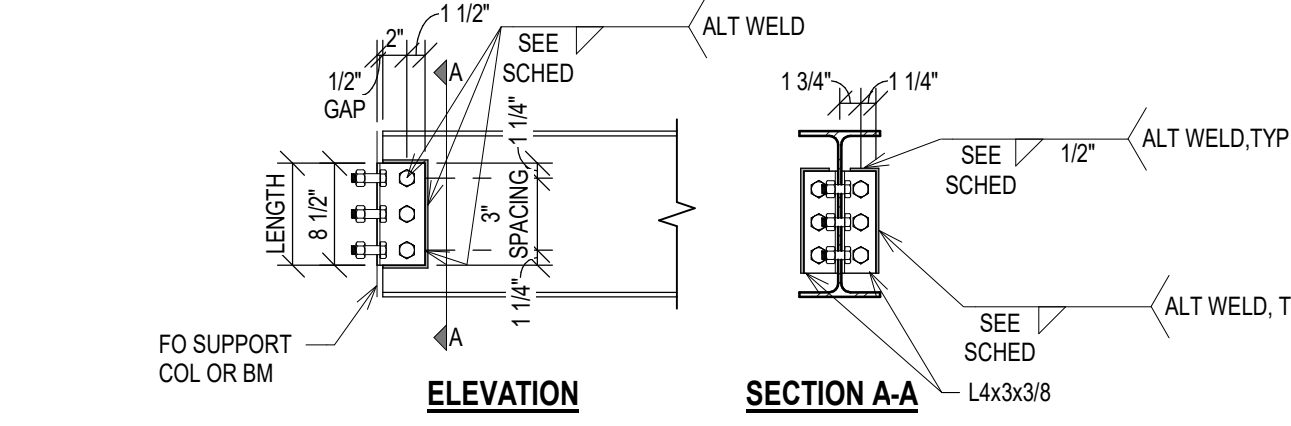
MTL STUD LINTEL ELEVATION



NOTES:
1. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCH, MECH, AND ELEC DRAWINGS AND EQUIPMENT SUPPLIERS PRIOR TO SUBMITTING SHOP DRAWINGS.
2. NO ADDED FRAMING IS REQUIRED AT OPENINGS CUTTING ONLY ONE DECK FLUTE, UNLESS OTHERWISE NOTED.
3. FASTEN DECK FLUTES TO ANGLE FRAMING ALL SIDES PER ROOF DECK ATTACHMENT SPECIFIED IN THE PLAN NOTES.
4. IF ANGLE TAB DOES NOT FALL W/ 3" OF JOIST PANEL POINT, ADD (2) ANGLES 1 1/4"x1 1/4"x1/4" FROM TAB LOCATION TO BOTTOM CHORD PANEL POINT, (1) EA SIDE OF JOIST, WELD INTO PLACE.

TYP OPENING IN METAL DECK

SCALE: NTS



BEAM	3/4" Ø F1852 BOLTS	CONNECTION ANGLES LENGTH	THICKNESS	ALTERNATE WELD TO BM 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.

SCHEDULE - DBL ANGLE CONNECTION

SCALE: NTS

SCHEDULE - SHEAR TAB CONNECTION

SCALE: NTS

BEAM	HEIGHT	THICKNESS	3/4" Ø A325N BOLTS	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

COMPLIANCE REVIEW INCLUDED	2/23/2024
Revisions:	Date

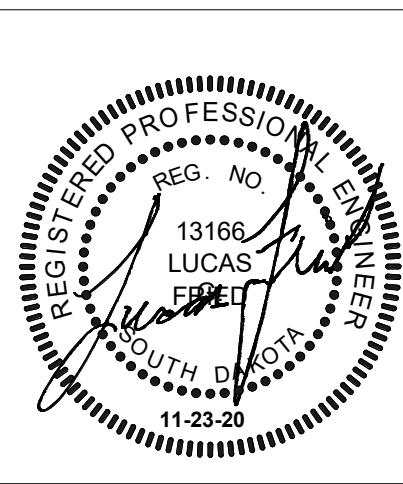
CONSULTANTS:

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Albertson Engineering Inc.

ALBERTSON ENGINEERING, INC.
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SIOUX FALLS, SOUTH DAKOTA 57104
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FARRIS ENGINEERING
OMAHA (B6S-403) & BENTLEY (C6S-503)
PH: (402) 330-5900



ARCHITECT

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RAPID CITY, SOUTH DAKOTA 57701
PH: (605) 342-9470
FAX: (605) 342-2377
WWW.FOURFRONTDESIGN.COM

Drawing Title	STANDARD DETAILS / SCHEDULES - ALTERNATIVE BID #2 & #5
Approved: Project Director	Omaha VA Medical Center
Project Number	16.2330.A08
Building Number	25
Drawing Number	S-601.1
Date	11/23/2020
Checked	LGF
Drawn	MDR
Dwg. 104 of 193	

Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location 4101 Woolworth Ave #4199 Omaha, NE 68105

Project Number 16.2330.A08

Drawing Number S-601.1

Office of Construction and Facilities Management

Department of Veterans Affairs

CONSTRUCTION DOCUMENTS