ONEIDA COUNTY DEPARTMENT OF PUBLIC WORKS

MOHAWK VALLEY COMMUNITY COLLEGE

SCIENCE & TECHNOLOGY BUILDING

BID REFERENCE NO. 2307 & 2361

GENERAL CONSTRUCTION:	CONTRACT NO. H2455701
SITEWORK CONSTRUCTION:	CONTRACT NO. H2455702
ROOFING CONSTRUCTION:	CONTRACT NO. H2455703
FIRE PROTECTION CONSTRUCTION:	CONTRACT NO. H2455704
PLUMBING CONSTRUCTION:	CONTRACT NO. H2455705
MECHANICAL CONSTRUCTION:	CONTRACT NO. H2455706
ELECTRICAL CONSTRUCTION:	CONTRACT NO. H2455707

CONSTRUCTION
SEPTEMBER 23, 2025

MATTHEW E. LACEY
039779
EXPIRATION DATE: 05-31-2028

THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF THEIR KNOWLEDGE, INFORMATION AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, AND THE STATE ENERGY CONSERVATION CONSTRUCTION CODE.

JAMES R. BRADDOCK
015807
EXPIRATION DATE: 05-31-2026

DRAWING LIST - VOLUME 1:

DRAWING NO.	DRAWING NAME
CODE COMPLIANCE	
CC-101	CODE COMPLIANCE
CC-102	GLAZING PERCENTAGES AND MAPS
EN-101	COMCHECK COMPLIANCE CERTIFICATES & INSPECTION CHECKLIST
EN-102	COMCHECK INSPECTION CHECKLISTS
SITEWORK	
C-100	SITE SURVEY
C-101	STORM WATER POLLUTION PREVENTION PLAN
C-102	SWPPP NOTES
C-103	SITE PREPARATION PLAN
C-104	SITE GRADING PLAN
C-105	SITE UTILITY PLAN
C-106	SITE LAYOUT PLAN
C-107	SITE PLANTING PLAN
C-109	SITE DETAILS
C-110	SITE DETAILS
C-111	PARTIAL UTILITY PLAN
STRUCTURAL	
S-100	FOUNDATION PLAN - OVERALL
S-101	HEAD BUILDING - FOUNDATION PLAN
S-102	SHED BUILDING - FOUNDATION PLAN
S-200	LOW ROOF / SECOND FLOOR / PENTHOUSE FRAMING PLAN - OVERALL
S-201	HEAD BUILDING - LOW ROOF / SECOND FLOOR FRAMING PLAN
S-202	SHED BUILDING - LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN
S-300	HIGH ROOF FRAMING PLAN - OVERALL
S-301	HEAD BUILDING - HIGH ROOF FRAMING PLAN
S-302	SHED BUILDING - HIGH ROOF FRAMING PLAN
S-401	HEAD AND SHED BUILDINGS - TYPICAL FOUNDATION DETAILS AND NOTES
S-402	HEAD BLDG - FOUNDATION SECTIONS
S-403	SHED BLDG - FOUNDATION SECTIONS
S-501	MASONRY DETAILS, LINTEL SCHEDULE AND NOTES
S-601	SHED AND HEAD BUILDING - TYPICAL FRAMING DETAILS, DESIGN PARAMETERS AND NOTES
S-602	SHED BUILDING - TYPICAL MOMENT CONNECTION SECTIONS AND DETAILS
S-603	SHED BUILDING - LOW ROOF, CONNECTING LINK ROOF & PENTHOUSE FRAMING SECTIONS
S-604	SHED BUILDING - HIGH ROOF FRAMING SECTIONS
S-605	HEAD BLDG - CANOPY SECTIONS AND DETAILS
S-606	HEAD BLDG - MAIN LOBBY STAIR SECTIONS AND DETAILS
S-701	SHED BUILDING - STEEL COLUMN SCHEDULE AND DETAILS
S-801	HEAD BUILDING - CFMF DETAILS AND NOTES
S-802	HEAD BUILDING - CFMF SHEAR WALL ELEVATIONS
S-803	HEAD BUILDING - CFMF SHEAR WALL ELEVATIONS
S-804	HEAD BUILDING - CFMF SHEAR WALL ELEVATIONS
S-901	HEAD BUILDING - WOOD FRAMING COLUMN SCHEDULE AND DETAILS
S-901.1	HEAD BUILDING - WOOD FRAMING COLUMN BASE PLATE DETAILS AT X-BRACES
S-902	HEAD BUILDING - WOOD FRAMING SECTIONS AND DETAILS
S-903	HEAD BUILDING - WOOD FRAMING SECTIONS
S-904	HEAD BUILDING - WOOD FRAMING SECTIONS, DESIGN PARAMETERS AND NOTES
S-905	HEAD BUILDING - EXTERIOR WALL X-BRACE ELEVATIONS
S-1001A	COOLING TOWER - ENCLOSURE AND SUPPORT STRUCTURE PLANS
S-1002A	COOLING TOWER - ENCLOSURE AND SUPPORT STRUCTURE SECTIONS AND DETAILS

ONEIDA COUNTY
NEW YORK
1798

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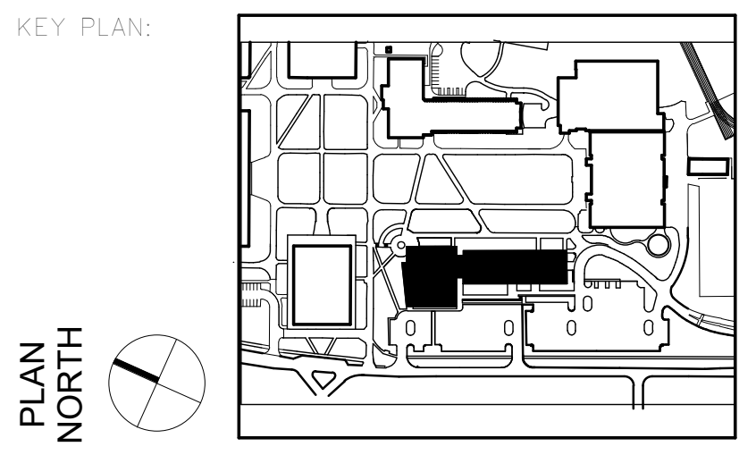
SEAL:

ISSUE/REVISION:

NO.	DATE	COMMENTS

KEY PLAN:



PROJECT:
SCIENCE & TECHNOLOGY BUILDING

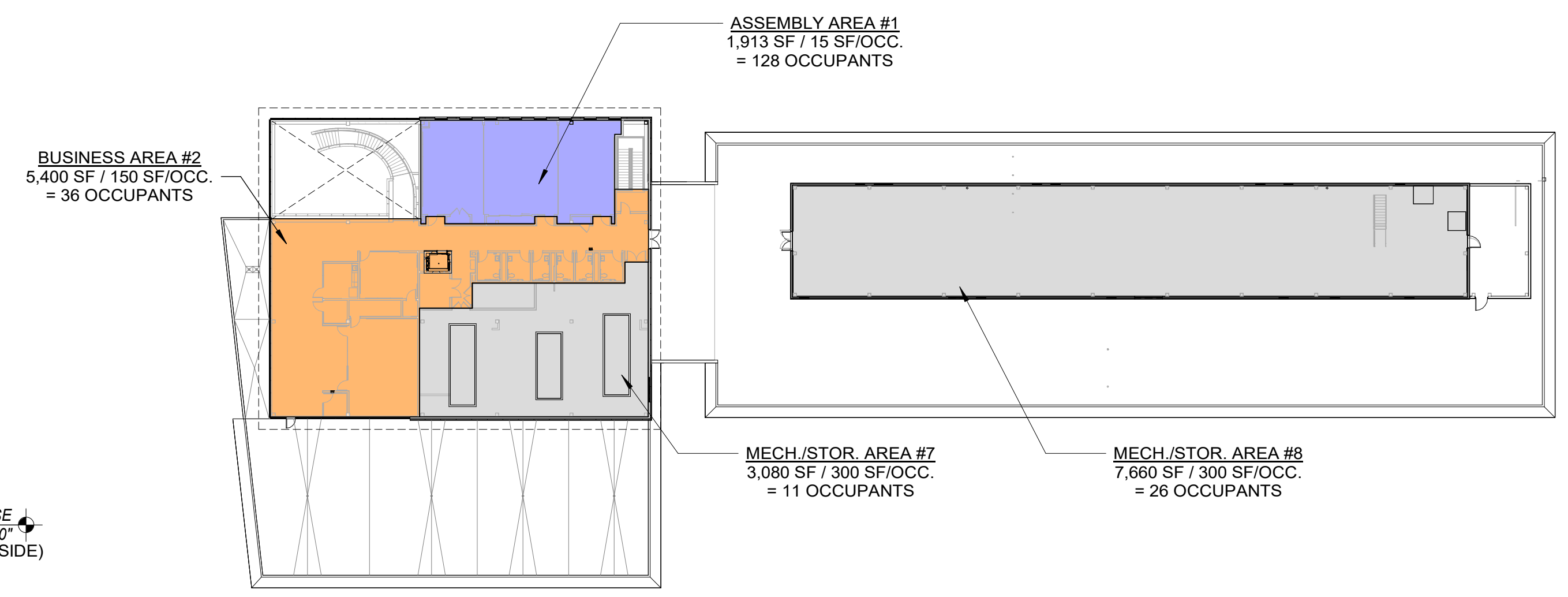
DRAWING TITLE:
COVER SHEET - VOL. 1

PROJECT NO: 23000	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE:

T-001

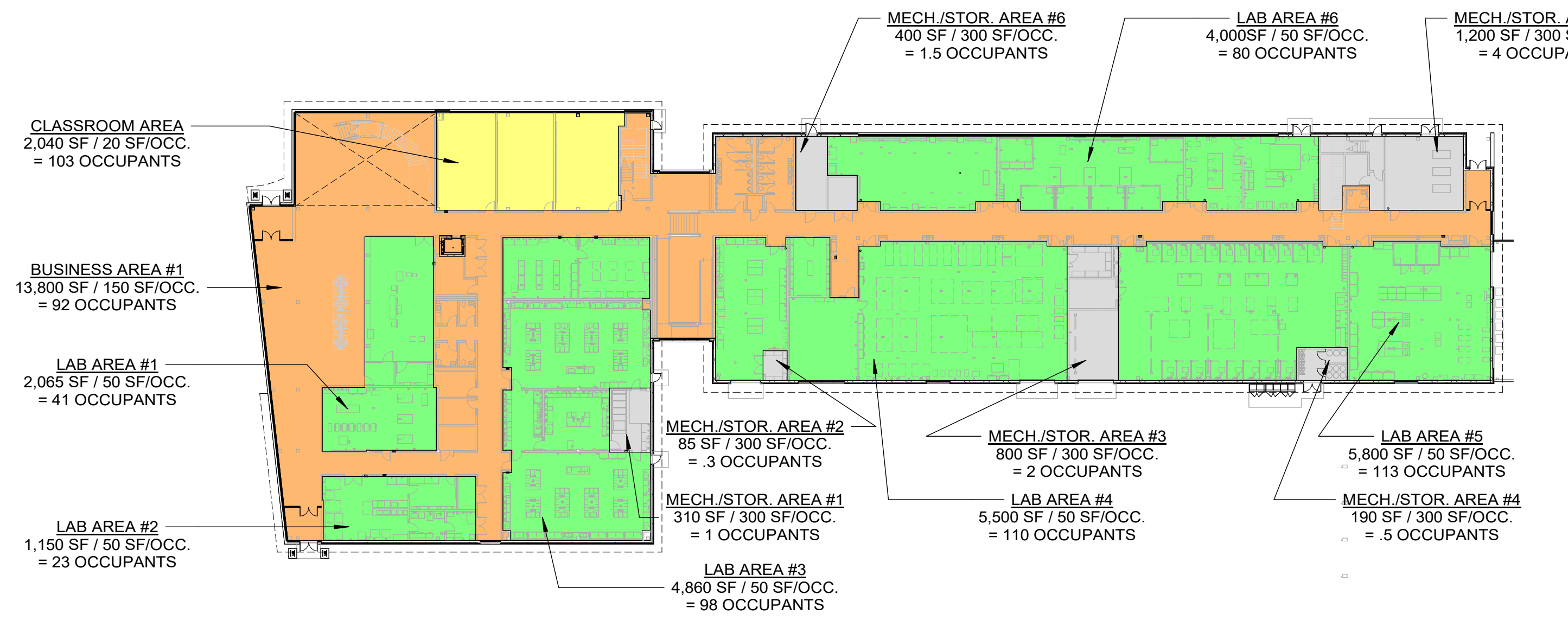
OCCUPANCY LEGEND

🟧	- BUSINESS AREA	- 150 SF PER OCCUPANT
⬜	- MECHANICAL AREA	- 300 SF PER OCCUPANT
🟨	- CLASSROOM AREA	- 20 SF PER OCCUPANT
🟩	- LAB AREA	- 50 SF PER OCCUPANT
🟪	- ASSEMBLY AREA	- 15 SF PER OCCUPANT


ASSEMBLY AREA #1
1,913 SF / 15 SF/OCC.
= 128 OCCUPANTS
BUSINESS AREA #2
5,400 SF / 150 SF/OCC.
= 36 OCCUPANTS
MECH./STOR. AREA #7
3,080 SF / 300 SF/OCC.
= 11 OCCUPANTS
MECH./STOR. AREA #8
7,660 SF / 300 SF/OCC.
= 26 OCCUPANTS

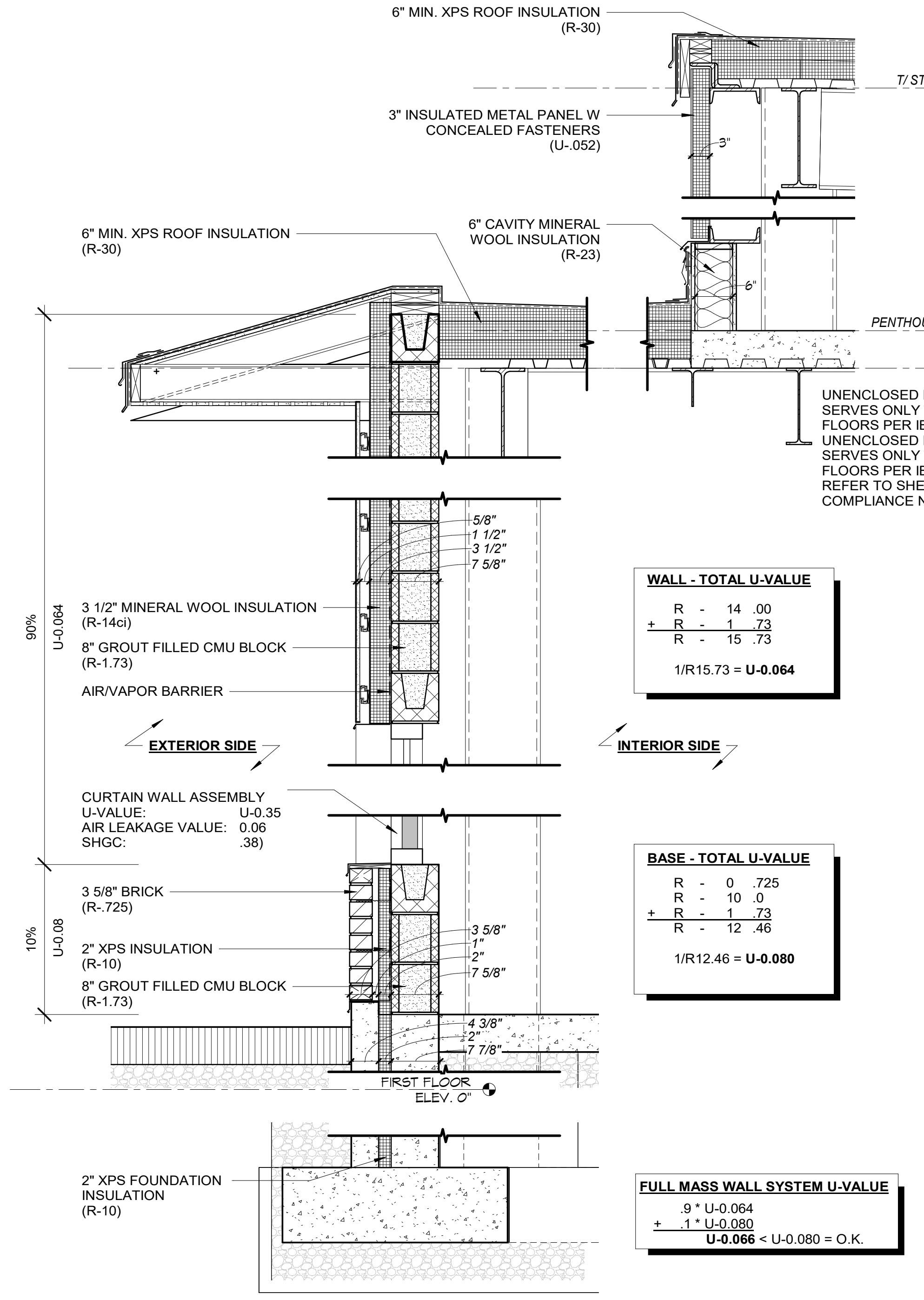
4 CODE COMPLIANCE KEY PLAN - SECOND FLOOR

SCALE: 1" = 40'-0"


MECH./STOR. AREA #6
400 SF / 300 SF/OCC.
= 1.5 OCCUPANTS
LAB AREA #6
4,000SF / 50 SF/OCC.
= 80 OCCUPANTS
MECH./STOR. AREA #5
1,200 SF / 300 SF/OCC.
= 4 OCCUPANTS
CLASSROOM AREA
2,040 SF / 20 SF/OCC.
= 103 OCCUPANTS
BUSINESS AREA #1
13,800 SF / 150 SF/OCC.
= 92 OCCUPANTS
LAB AREA #1
2,065 SF / 50 SF/OCC.
= 41 OCCUPANTS
LAB AREA #2
1,150 SF / 50 SF/OCC.
= 23 OCCUPANTS
MECH./STOR. AREA #2
85 SF / 300 SF/OCC.
= .3 OCCUPANTS
MECH./STOR. AREA #1
310 SF / 300 SF/OCC.
= 1 OCCUPANTS
LAB AREA #3
4,860 SF / 50 SF/OCC.
= 98 OCCUPANTS
MECH./STOR. AREA #3
800 SF / 300 SF/OCC.
= 2 OCCUPANTS
LAB AREA #4
5,500 SF / 50 SF/OCC.
= 110 OCCUPANTS
LAB AREA #5
5,800 SF / 50 SF/OCC.
= 113 OCCUPANTS
MECH./STOR. AREA #4
190 SF / 300 SF/OCC.
= .5 OCCUPANTS

3 CODE COMPLIANCE KEY PLAN - FIRST FLOOR

SCALE: 1" = 40'-0"


6" MIN. XPS ROOF INSULATION
(R-30)
T/ STEEL - PENTHOUSE
612'-0"
(HIGH SIDE)
3" INSULATED METAL PANEL W
CONCEALED FASTENERS
(U-.052)
6" MIN. XPS ROOF INSULATION
(R-30)
6" CAVITY MINERAL
WOOL INSULATION
(R-23)
PENTHOUSE FINISH FLOOR
598'-11 3/8"
T/ STEEL - SHED
598'-5 3/8"
5/8"
1 1/2"
3 1/2"
7 5/8"
90%
U-0.064
3 1/2" MINERAL WOOL INSULATION
(R-14ci)
8" GROUT FILLED CMU BLOCK
(R-1.73)
AIR/VAPOR BARRIER
EXTERIOR SIDE
INTERIOR SIDE
CURTAIN WALL ASSEMBLY
U-VALUE: U-0.35
AIR LEAKAGE VALUE: 0.06
SHGC: .38)
10%
U-0.08
3 5/8" BRICK
(R-.725)
2" XPS INSULATION
(R-10)
8" GROUT FILLED CMU BLOCK
(R-1.73)
3 5/8"
1"
2"
7 5/8"
4 3/8"
2"
7 7/8"
FIRST FLOOR
ELEV. 0"
2" XPS FOUNDATION
INSULATION
(R-10)

WALL - TOTAL U-VALUE

R - 14 .00
+ R - 1 .73
R - 15 .73

1/R15.73 = **U-0.064**

BASE - TOTAL U-VALUE

R - 0 .725
R - 10 .0
+ R - 1 .73
R - 12 .46

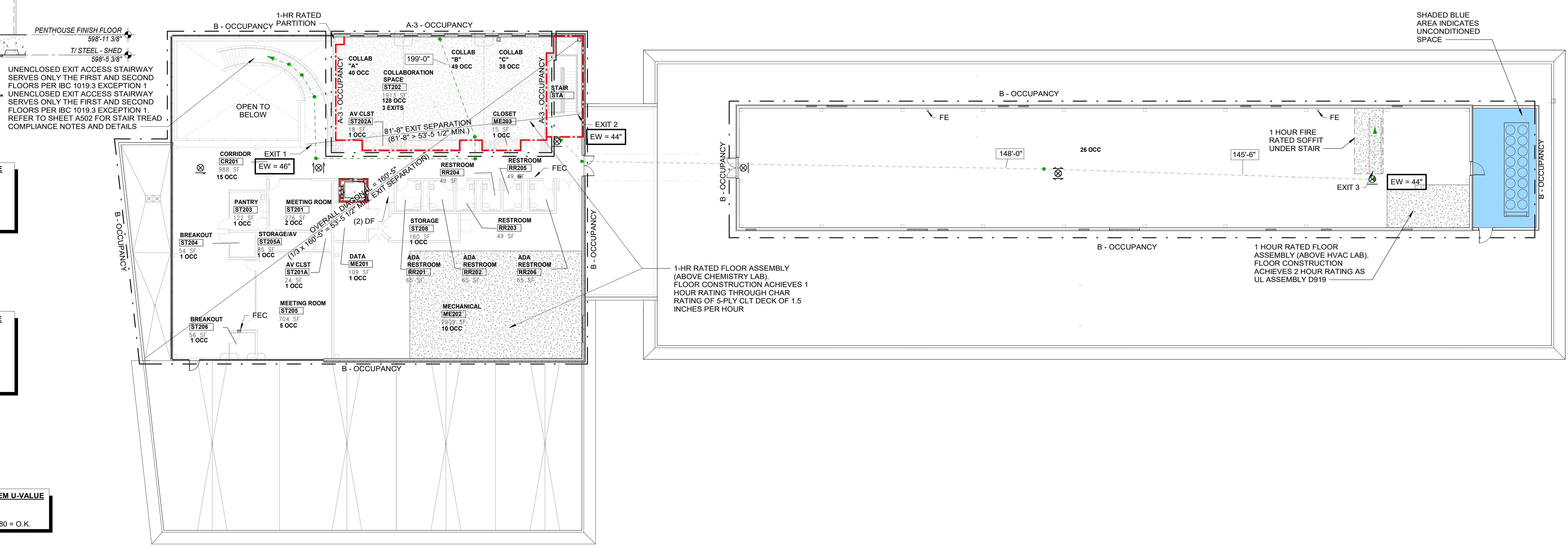
1/R12.46 = **U-0.080**

FULL MASS WALL SYSTEM U-VALUE

.9 * U-0.064
+ .1 * U-0.080
U-0.066 < U-0.080 = O.K.

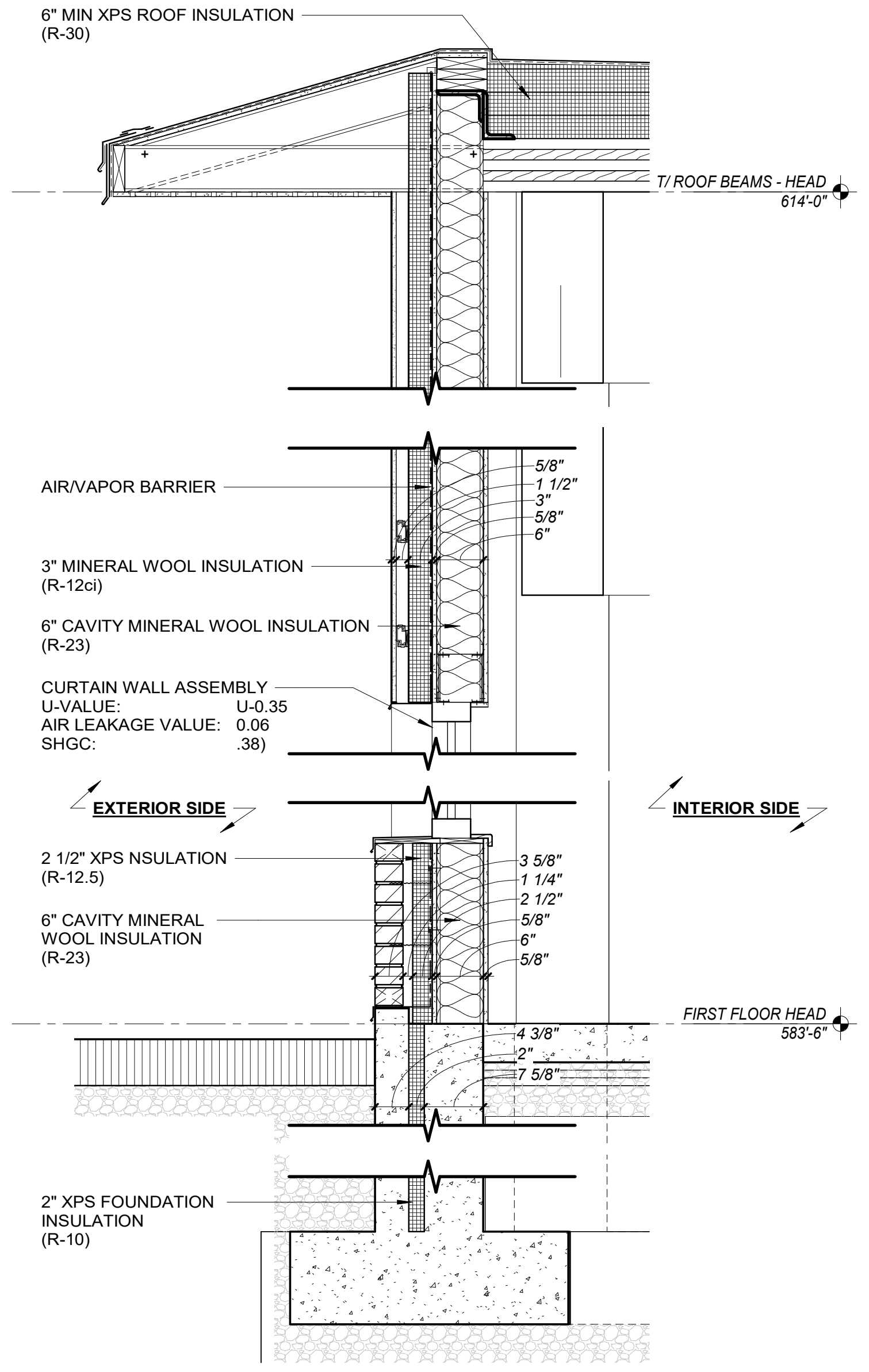
6 SHED & PENTHOUSE - TYPICAL WALL SECTION - ENERGY COMPLIANCE

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


UNENCLOSED EXIT ACCESS STAIRWAY
SERVES ONLY THE FIRST AND SECOND
FLOORS PER IBC 1019.3 EXCEPTION 1
UNENCLOSED EXIT ACCESS STAIRWAY
SERVES ONLY THE FIRST AND SECOND
FLOORS PER IBC 1019.3 EXCEPTION 1
REFER TO SHEET A502 FOR STAIR TREAD
COMPLIANCE NOTES AND DETAILS
B - OCCUPANCY
1-HR RATED
PARTITION
A-3 - OCCUPANCY
OPEN TO
BELOW
COLLAB
"A"
40 OCC
COLLABORATION
SPACE
ST202
128 OCC
COLLAB
"B"
49 OCC
COLLAB
"C"
38 OCC
199'-0"
STAIR
STA
EXIT 2
EW = 44"
81'-8" EXIT SEPARATION
(81'-8" > 53'-5 1/2" MIN.)
CORRIDOR
CR201
15 OCC
EXIT 1
EW = 46"
CLOSET
ME203
1 OCC
RESTROOM
RR204
RESTROOM
RR205
FEC
PANTRY
ST203
1 OCC
MEETING ROOM
ST201
2 OCC
(2) DF
OVERALL DIAGONAL
(1/3 x 160'-5" = 53'-5 1/2" MIN. EXIT SEPARATION)
BREAKOUT
ST204
1 OCC
STORAGE/AV
ST205A
1 OCC
AV CLST
ST202A
1 OCC
AV CLST
ST201A
1 OCC
DATA
ME201
1 OCC
STORAGE
ST208
1 OCC
RESTROOM
RR203
ADA
RESTROOM
RR201
ADA
RESTROOM
RR202
ADA
RESTROOM
RR206
MECHANICAL
ME202
10 OCC
BREAKOUT
ST206
1 OCC
FEC
MEETING ROOM
ST205
5 OCC
B - OCCUPANCY
SHADED BLUE
AREA INDICATES
UNCONDITIONED
SPACE
FE
26 OCC
148'-0"
145'-6"
1 HOUR FIRE
RATED SOFFIT
UNDER STAIR
EXIT 3
EW = 44"
B - OCCUPANCY
1-HR RATED FLOOR ASSEMBLY
(ABOVE CHEMISTRY LAB).
FLOOR CONSTRUCTION ACHIEVES 1
HOUR RATING THROUGH CHAR
RATING OF 5-PLY CLT DECK OF 1.5
INCHES PER HOUR
1 HOUR RATED FLOOR
ASSEMBLY (ABOVE HVAC LAB).
FLOOR CONSTRUCTION
ACHIEVES A 2 HOUR RATING AS
UL ASSEMBLY D919

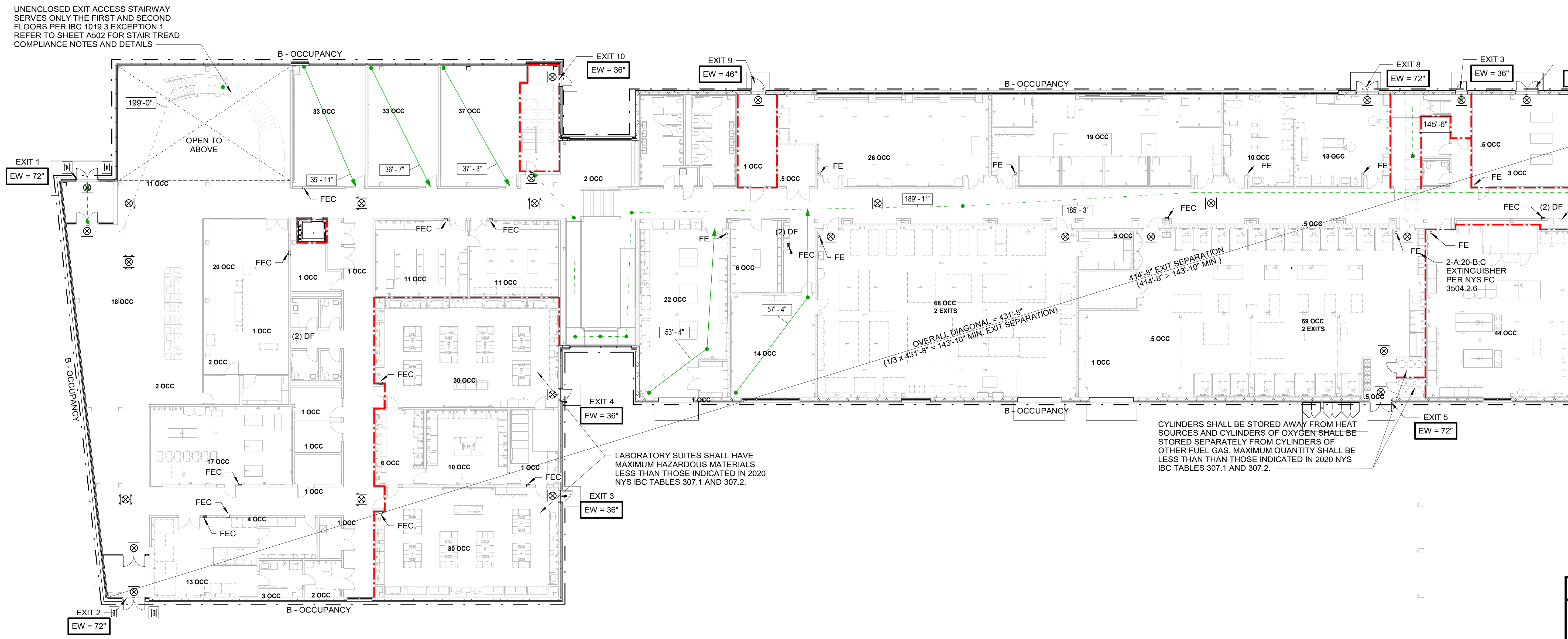
2 CODE COMPLIANCE PLAN - SECOND FLOOR

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


6" MIN XPS ROOF INSULATION
(R-30)
T/ ROOF BEAMS - HEAD
614'-0"
AIR/VAPOR BARRIER
5/8"
1 1/2"
3"
5/8"
6"
3" MINERAL WOOL INSULATION
(R-12ci)
6" CAVITY MINERAL WOOL INSULATION
(R-23)
CURTAIN WALL ASSEMBLY
U-VALUE: U-0.35
AIR LEAKAGE VALUE: 0.06
SHGC: .38)
EXTERIOR SIDE
INTERIOR SIDE
2 1/2" XPS INSULATION
(R-12.5)
6" CAVITY MINERAL
WOOL INSULATION
(R-23)
3 5/8"
1 1/4"
2 1/2"
5/8"
6"
5/8"
FIRST FLOOR HEAD
583'-6"
4 3/8"
2"
7 5/8"
2" XPS FOUNDATION
INSULATION
(R-10)

5 HEAD - TYPICAL WALL SECTION - ENERGY COMPLIANCE

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


UNENCLOSED EXIT ACCESS STAIRWAY
SERVES ONLY THE FIRST AND SECOND
FLOORS PER IBC 1019.3 EXCEPTION 1.
REFER TO SHEET A502 FOR STAIR TREAD
COMPLIANCE NOTES AND DETAILS
B - OCCUPANCY
EXIT 10
EW = 36"
EXIT 9
EW = 46"
EXIT 8
EW = 72"
EXIT 3
EW = 36"
EXIT 7
EW = 72"
EXIT 6
EW = 72"
EXIT 1
EW = 72"
199'-0"
OPEN TO
ABOVE
33 OCC
33 OCC
37 OCC
35'-11"
36'-7"
37'-3"
11 OCC
18 OCC
20 OCC
1 OCC
2 OCC
2 OCC
(2) DF
11 OCC
11 OCC
26 OCC
19 OCC
10 OCC
13 OCC
145'-6"
189'-11"
185'-3"
5 OCC
6 OCC
22 OCC
57'-4"
53'-4"
68 OCC
2 EXITS
14 OCC
69 OCC
2 EXITS
44 OCC
3 OCC
2-A:20-B:C
EXTINGUISHER
PER NYS FC
3504.2.6
414'-8" EXIT SEPARATION
(414'-8" > 143'-10" MIN.)
OVERALL DIAGONAL
(1/3 x 431'-8" = 143'-10" MIN. EXIT SEPARATION)
30 OCC
10 OCC
6 OCC
17 OCC
4 OCC
30 OCC
13 OCC
3 OCC
2 OCC
EXIT 4
EW = 36"
EXIT 3
EW = 36"
EXIT 5
EW = 72"
EXIT 2
EW = 72"
B - OCCUPANCY
FEC
FE
SHADED BLUE
AREA INDICATES
UNCONDITIONED
SPACE
LABORATORY SUITES SHALL HAVE
MAXIMUM HAZARDOUS MATERIALS
LESS THAN THOSE INDICATED IN 2020
NYS IBC TABLES 307.1 AND 307.2
CYLINDERS SHALL BE STORED AWAY FROM HEAT
SOURCES AND CYLINDERS OF OXYGEN SHALL BE
STORED SEPARATELY FROM CYLINDERS OF
OTHER FUEL GAS, MAXIMUM QUANTITY SHALL BE
LESS THAN THOSE INDICATED IN 2020 NYS
IBC TABLES 307.1 AND 307.2

1 CODE COMPLIANCE PLAN - FIRST FLOOR

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

OCCUPANCY ROOM SCHEDULE

ROOM NAME	ROOM NUMBER	AREA	OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS
FIRST FLOOR HEAD					
CORRIDOR	CC102	947 SF	BUSINESS OCCUPANCY	150 SF/OCC.	6.0
ADA RAMP	CC104	852 SF	BUSINESS OCCUPANCY	150 SF/OCC.	6.0
CORRIDOR	CR101	1,025 SF	BUSINESS OCCUPANCY	150 SF/OCC.	7.0
CORRIDOR	CR103	414 SF	BUSINESS OCCUPANCY	150 SF/OCC.	3.0
ELEVATOR	E1	45 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
LOBBY	LL101	1,625 SF	BUSINESS OCCUPANCY	150 SF/OCC.	11.0
LOUNGE	LL102	269 SF	BUSINESS OCCUPANCY	150 SF/OCC.	2.0
DATA	ME102	149 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
ELECTRIC	ME103	50 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
ADA RESTROOM	RR101	62 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
WELLNESS	RR102	61 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR103	46 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR104	46 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
CHEM WASTE	ST104	107 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
OFFICE	ST106	112 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
OFFICE	ST108	117 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
STAIR A	STA	285 SF	BUSINESS OCCUPANCY	150 SF/OCC.	2.0
VESTIBULE / CORRIDOR	V100/C100	2,708 SF	BUSINESS OCCUPANCY	150 SF/OCC.	18.0
		8,920	**BUSINESS OCCUPANCY TOTAL**		**65**
AUTOMATION TRAINING CENTER	ST100	990 SF	LAB AREA OCCUPANCY	50 SF/OCC.	20.0
GOWNING	ST100A	78 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
OFFICE	ST100B	104 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
FAB LAB	ST101	631 SF	LAB AREA OCCUPANCY	50 SF/OCC.	13.0
FAB COLLAB	ST101A	181 SF	LAB AREA OCCUPANCY	50 SF/OCC.	4.0
POST PROCESS	ST101B	121 SF	LAB AREA OCCUPANCY	50 SF/OCC.	3.0
METAL PRINT	ST101BA	102 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
MECHATRONICS ROBOTICS	ST102	847 SF	LAB AREA OCCUPANCY	50 SF/OCC.	17.0
GENERAL CHEMISTRY	ST103	1,489 SF	LAB AREA OCCUPANCY	50 SF/OCC.	30.0
PREP ROOM	ST105	461 SF	LAB AREA OCCUPANCY	50 SF/OCC.	10.0
INSTRUMENT	ST105B	277 SF	LAB AREA OCCUPANCY	50 SF/OCC.	6.0
ORGANIC CHEMISTRY	ST107	1,476 SF	LAB AREA OCCUPANCY	50 SF/OCC.	30.0
PNEUMATIC & VACUUM	ST109	529 SF	LAB AREA OCCUPANCY	50 SF/OCC.	11.0
HYDRAULIC & MECHANIC	ST111	512 SF	LAB AREA OCCUPANCY	50 SF/OCC.	11.0
JANITOR'S CLOSET	ME101	69 SF	LAB AREA OCCUPANCY	50 SF/OCC.	1.0
		7,867	**LAB AREA OCCUPANCY TOTAL**		**162.0**
CLASSROOM	ST110	659 SF	CLASSROOM AREA OCCUPANCY	20 SF/OCC.	33.0
CLASSROOM	ST112	648 SF	CLASSROOM AREA OCCUPANCY	20 SF/OCC.	33.0
CLASSROOM	ST114	732 SF	CLASSROOM AREA OCCUPANCY	20 SF/OCC.	37.0
		2,039	**CLASSROOM OCCUPANCY TOTAL**		**103.0**
CHEM STORAGE	ST105A	275 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	1.0
		275	**MECH./STOR. OCCUPANCY TOTAL**		**1.0**
FIRST FLOOR SHED					
CORRIDOR	CR105	2,852 SF	BUSINESS OCCUPANCY	150 SF/OCC.	19.0
JAN CLST	ME104	24 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR105	284 SF	BUSINESS OCCUPANCY	150 SF/OCC.	2.0
RESTROOM	RR106	286 SF	BUSINESS OCCUPANCY	150 SF/OCC.	2.0
ADA RESTROOM	RR107	49 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
STAIR	STB	153 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
VESTIBULE	V103	111 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
		3,759	**BUSINESS OCCUPANCY TOTAL**		**27**
CIVIL LAB	ST113	1,093 SF	LAB AREA OCCUPANCY	50 SF/OCC.	22.0
COLLAB LAB	ST115	271 SF	LAB AREA OCCUPANCY	50 SF/OCC.	6.0
INDUSTRIAL CONTROLS	ST116	1,300 SF	LAB AREA OCCUPANCY	50 SF/OCC.	26.0
CAD LAB	ST117	662 SF	LAB AREA OCCUPANCY	50 SF/OCC.	14.0
ELEC CODES	ST118	918 SF	LAB AREA OCCUPANCY	50 SF/OCC.	19.0
ROOM 1	ST118A	88 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
ROOM 3	ST118B	88 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
ROOM 4	ST118C	88 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
ROOM 5	ST118D	91 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
ROOM 6	ST118E	88 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
ROOM 2	ST118F	88 SF	LAB AREA OCCUPANCY	50 SF/OCC.	2.0
MACHINE & CNC LAB	ST119	3,364 SF	LAB AREA OCCUPANCY	50 SF/OCC.	68.0
MATERIAL TESTING	ST120	469 SF	LAB AREA OCCUPANCY	50 SF/OCC.	10.0
WELDING LAB	ST121	3,456 SF	LAB AREA OCCUPANCY	50 SF/OCC.	69.0
MATERIAL PROCESS	ST122	630 SF	LAB AREA OCCUPANCY	50 SF/OCC.	13.0
HVAC LAB	ST123	2,154 SF	LAB AREA OCCUPANCY	50 SF/OCC.	44.0
		14,848	**LAB AREA OCCUPANCY TOTAL**		**303**
ELEC	ME105	265 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	1.0
IT/SEC	ME106	114 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.4
BOILER ROOM	ME110	671 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	3.0
TOOL STORAGE	ST113A	76 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.3
MACHINE TOOL STORAGE	ST119A	156 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.5
WELDING TOOL STORAGE	ST121A	161 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.5
METAL STORAGE	ST121B	402 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	1.0
GAS STORAGE	ST121C	174 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.6
PANEL CLOSET	ST121D	9 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.03
BUILDING STORAGE	ST124	150 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.5
STO/WASTE	ST126	81 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	0.3
		2,259	**MECH./STOR. OCCUPANCY TOTAL**		**8**
SECOND FLOOR HEAD					
ELEVATOR	E1	45 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
TERRACE	LL201	733 SF	BUSINESS OCCUPANCY	150 SF/OCC.	5.0
CORRIDOR	CR201/LL202	2,321 SF	BUSINESS OCCUPANCY	150 SF/OCC.	15.0
PANTRY	ST203	122 SF	BUSINESS OCCUPANCY	151 SF/OCC.	1.0
BREAKOUT	ST204	54 SF	BUSINESS OCCUPANCY	152 SF/OCC.	1.0
BREAKOUT	ST206	56 SF	BUSINESS OCCUPANCY	153 SF/OCC.	1.0
MEETING ROOM	ST205	704 SF	BUSINESS OCCUPANCY	154 SF/OCC.	5.0
DATA	ME201	109 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
ADA RESTROOM	RR201	65 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
ADA RESTROOM	RR202	65 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR203	49 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR204	49 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
RESTROOM	RR205	49 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
ADA RESTROOM	RR206	65 SF	BUSINESS OCCUPANCY	150 SF/OCC.	1.0
		4,486	**BUSINESS OCCUPANCY TOTAL**		**36**
COLLABORATION SPACE	ST202	1,913 SF	ASSEMBLY OCCUPANCY TOTAL	15 SF/OCC.	128.0
		1,913	**ASSEMBLY OCCUPANCY TOTAL**		**128**
MECHANICAL	ME202	2,909 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	10.0
STORAGE	ST208	160 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	1.0
		3,069	**MECH./STOR. OCCUPANCY TOTAL**		**11**
PENTHOUSE LEVEL SHED					
MECHANICAL PENTHOUSE	ME200	7,660 SF	MECH./STOR. OCCUPANCY	300 SF/OCC.	26.0
			MECH./STOR. OCCUPANCY TOTAL		**26**

OCCUPANCY ANALYSIS TOTALS - ALTERNATE

FIRST FLOOR: (669 OCCUPANTS)
(B OCCUPANCY)
= 92 OCC. (BUSINESS AREA)
= 103 OCC. (CLASS. AREA)
= 465 OCC. (LAB AREA)
+ = 9 OCC. (MECH./STOR. AREA)
= 669 OCCUPANTS

SECOND FLOOR: (201 OCCUPANTS)
(B OCCUPANCY)
= 36 OCC. (BUSINESS AREA)
= 128 OCC. (ASSEMBLY AREA)
+ = 37 OCC. (MECH./STOR. AREA)
= 201 OCCUPANTS

TOTAL FIRST FLOOR OCCUPANTS: = 669 OCCUPANTS
TOTAL SECOND FLOOR OCCUPANTS = 201 OCCUPANTS
TOTAL BUILDING OCCUPANTS: = 870 OCCUPANTS

CODE COMPLIANCE - 2 STORY HIGHER EDUCATION FACILITY (SPRINKLERED)

BUILDING HEIGHT & AREA ANALYSIS

OCCUPANCY CLASSIFICATION: **MIXED-USE - SEPERATED - B & A-3**

TYPE OF CONSTRUCTION: **III-B** (SECTION 602.3)

BUILDING HEIGHT:
(SECTION 504, TABLE 504.3; TABLE 504.4)

	HEIGHT	NO. STORIES
PERMITTED:	75 FEET	2 STORIES (BASED OFF MORE RESTRICTIVE A-3)
ACTUAL:	36 FEET	2 STORIES

ALLOWABLE BUILDING AREA:
(NYS IBC SECTION 506, TABLE 506.2) - B OCCUPANCY - 57,000 SF PER STORY
A-3 OCCUPANCY - 28,500 SF PER STORY

SEP. MIXED USE BUILDING AREA AS CALCULATED PER NYS IBC 508.4.2:

	B		A-3	
1ST STORY:	42,620 SF/57,000 SF	+	0SF/35,625 SF	**= .75 < 1**
2ND STORY:	18,043 SF/57,000 SF	+	2,050 SF/28,500 SF	**= .39 < 1**

NO. SIDES ACCESSIBLE: 4

TRAVEL DISTANCES BY OCCUPANCY CLASSIFICATION

B OCCUPANCY TRAVEL DISTANCES:
MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED: 300 FEET
MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER: 75 FEET
MAXIMUM COMMON PATH OF EGRESS: 100 FEET
MAXIMUM DEAD END CORRIDOR: 50 FEET

A-3 OCCUPANCY TRAVEL DISTANCES:
MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED: 250 FEET
MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER: 75 FEET
MAXIMUM COMMON PATH OF EGRESS: 75 FEET
MAXIMUM DEAD END CORRIDOR: 20 FEET

CODE ANALYSIS SYMBOLS

TRAVEL DISTANCE (FEET) AND PRIMARY PATH OF EGRESS	100' - 0" ●- - - - ▶
COMMON PATH OF EGRESS (FEET)	100' - 0" ●——▶
FIRE EXTINGUISHER CABINET	FEC
EXIT SIGN LIGHT FIXTURES	⊗ ⊗ ⊗
EGRESS WIDTH	EW = 54"
REPRESENTS 1-HR FIRE BARRIER	▬ • ▬ • ▬
REPRESENTS 1-HR RATED FLOOR	▨

EGRESS ANALYSIS

MINIMUM NUMBER OF EXITS:
PER TABLE 1006.2, SPACES WITH OVER 49 OCCUPANTS REQUIRE 2 EXITS

FIRST FLOOR:
B OCCUPANCY - 669 OCCUPANTS
(INCLUDES MECH./STOR./CLASS./LAB AREAS)

MIN. REQUIRED	PROVIDED
3 EXITS	10 EXITS

SECOND FLOOR:
B OCCUPANCY - 73 OCCUPANTS
(INCLUDES MECH./STOR. AREAS)

MIN. REQUIRED	PROVIDED
2 EXITS	2 EXITS

A-3 OCCUPANCY - 128 OCCUPANTS

MIN. REQUIRED	PROVIDED
2 EXITS	3 EXITS

MINIMUM EXIT STAIRWAY WIDTH BASED ON OCCUPANT LOAD:

MIN. REQUIRED	PROVIDED
201 OCCUPANTS *.3"/OCC = 60.3"	46" + 44" = 90"

MIN. EXIT WIDTHS BASED ON TOTAL FIRST FLOOR OCCUPANT LOAD:

MIN. REQUIRED	PROVIDED
669 OCCUPANTS *.2"/OCC = 133.8"	72" + 72" + 36" + 36" + 72" + 72" + 72" + 72" + 46" + 36" = 586"

MINIMUM EXIT SEPARATION DISTANCE (FIRST FLOOR):
SEPARATION DISTANCE = 1/3 x LENGTH OF MAX. OVERALL DIAGONAL
= 1/3 x 431'-8" = **143'-10" MIN.**
ACTUAL = **414'-8"**

EGRESS ANALYSIS CONTINUED

MINIMUM EXIT SEPARATION DISTANCE (SECOND FLOOR):
SEPARATION DISTANCE = 1/3 x LENGTH OF MAX. OVERALL DIAGONAL
= 1/3 x 160'-5" = **53'- 5 1/2" MIN.**
ACTUAL = **81'-8"**

PLUMBING FIXTURE COUNTS

B OCCUPANCY - 742 OCCUPANTS
(INCLUDES MECH./STOR./CLASS./LAB AREAS)
(371 OCC. FOR MEN & WOMEN WATER CLOSET CALCULATIONS)
(NYS PC CHAPTER 4, SECTION 403.1.1)

1 MEN'S WATER CLOSET PER 25 OCCUPANTS FOR FIRST 50 OCCUPANTS AND AND 1 MEN'S WATER CLOSET PER 50 OCCUPANTS FOR REMAINING OCCUPANTS	REQUIRED:	8.42
1 WOMEN'S WATER CLOSET PER 25 OCCUPANTS FOR FIRST 50 OCCUPANTS AND AND 1 WOMEN'S WATER CLOSET PER 50 OCCUPANTS FOR REMAINING OCCUPANTS	REQUIRED:	8.42
1 LAVATORY PER 40 OCCUPANTS FOR THE FIRST 80 OCCUPANTS AND 1 LAVATORY PER 80 OCCUPANTS FOR THE REMAINING OCCUPANTS	REQUIRED:	10.275
1 DRINKING FOUNTAIN REQUIRED PER 100 OCCUPANTS	REQUIRED:	7.42
1 SERVICE SINK REQUIRED	REQUIRED:	1

PLUMBING FIXTURE COUNTS CONTINUED

A-3 OCCUPANCY - 128 OCCUPANTS
(INCLUDES MECH./STOR./CLASS./LAB AREAS)
(64 OCC. FOR MEN & WOMEN WATER CLOSET CALCULATIONS)

1 MEN'S WATER CLOSET PER 125 OCCUPANTS	REQUIRED:	.512
1 WOMEN'S WATER CLOSET PER 200 OCCUPANTS	REQUIRED:	.32
1 LAVATORY PER 200 OCCUPANTS	REQUIRED:	.64
1 DRINKING FOUNTAIN PER 500 OCCUPANTS	REQUIRED:	.256
1 SERVICE SINK REQUIRED	REQUIRED:	1

TOTAL PLUMBING FIXTURE COUNTS

TOTAL MEN'S WATER CLOSETS: 8.42 + .512 = 8.932 = 9	REQUIRED: PROVIDED:	9 11
TOTAL WOMEN'S WATER CLOSETS: 8.42 + .32 = 8.74 = 9	REQUIRED: PROVIDED:	9 10
TOTAL LAVATORIES: 10.275 + .64 = 10.915 = 11	REQUIRED: PROVIDED:	11 18
TOTAL DRINKING FOUNTAINS: 7.42 + .256 = 7.676 = 8	REQUIRED: PROVIDED:	8 8
TOTAL SERVICE SINKS: (2 SHARED)	REQUIRED: PROVIDED:	1 1

FIRE PROTECTION

FIRE EXTINGUISHERS - PROVIDED THROUGHOUT SO THAT OCCUPANT IS WITHIN 75' OF AN EXTINGUISHER AT ALL TIMES.

PORTABLE FIRE EXTINGUISHER PROVIDED IN ALL LABORATORY SPACES PER NYS BC 906.1.6. REFER TO PLAN FOR ADDITIONAL EXTINGUISHER REQUIREMENTS

FIRE ALARM - PROVIDED THROUGHOUT BUILDING

SMOKE/HEAT DETECTORS - PROVIDED THROUGHOUT BUILDING

TWO-WAY COMMUNICATION - PROVIDED AT ALL SECOND FLOOR ELEVATOR LANDINGS

APPLICABLE CODES

2020 BUILDING CODE OF NEW YORK STATE

2020 EXISTING BUILDING CODE OF NEW YORK STATE

2020 FIRE CODE OF NEW YORK STATE

ICC/ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

2018 NFPA LIFE SAFETY CODE (NFPA 101)

2017 NFPA 70 - NATIONAL ELECTRICAL CODE

2016 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

ENERGY CODE ANALYSIS

ENERGY CODE SUMMARY PER THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE
CLIMATE ZONE: 6A

	REQUIRED	PROVIDED
ROOF:		
INSULATED ABOVE DECK:	R-30ci, U-0.032	R-30ci
WALLS (ABOVE GRADE):		
WOOD FRAMED: (HEAD BUILDING)	R-20 + 3.8ci, U-0.051	R-23 + 12ci
MASS WALLS: (SHED BUILDING)	R-13.3ci, U-0.080	R-14ci
METAL BUILDING (PENTHOUSE)	R-13 + 13ci, U-0.052	U-0.045
SLAB-ON-GRADE FLOORS:		
UNHEATED SLABS:	R-10 FOR 24" BELOW	R-10
OPAQUE DOORS:		
SWINGING DOORS:	U-0.37	U-0.31
NON-SWINGING DOORS:	U-0.31	U-0.19
FENESTRATION:		
FIXED WINDOWS:	U-0.36	U-0.35
OPERABLE WINDOWS	U-0.43	-
ENTRANCE DOORS:	U-0.77	U-0.66
SHGC:	0.40	0.38

AIR BARRIER MEANS & METHODS:
INSTALL CONTINUOUS AIRTIGHT BARRIER OVER SURFACES INDICATED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES. APPLY SEALANTS AND ADHESIVES WITHIN RECOMMENDED TEMPERATURE RANGE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PREPARE SUBSTRATE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS; TREAT JOINTS IN SUBSTRATE AND BETWEEN DISSIMILAR MATERIALS AS INDICATED. WHERE EXTERIOR MASONRY VENEER IS BEING INSTALLED, INSTALL MASONRY ANCHORS BEFORE INSTALLING AIR BARRIER OVER MASONRY; PROVIDE AIRTIGHT SEAL AROUND ANCHORS. APPLY BEAD OR TROWEL COAT OF MASTIC SEALANT WITH MINIMUM THICKNESS OF 1/4 INCH ALONG COATING SEAMS, ROUGH CUTS, AND AS RECOMMENDED BY MANUFACTURER. USE FLASHING TO SEAL TO ADJACENT CONSTRUCTION AND TO BRIDGE JOINTS IN COATING SUBSTRATE.

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SEAL:

REGISTERED ARCHITECT
MATTHEW E. LACEY
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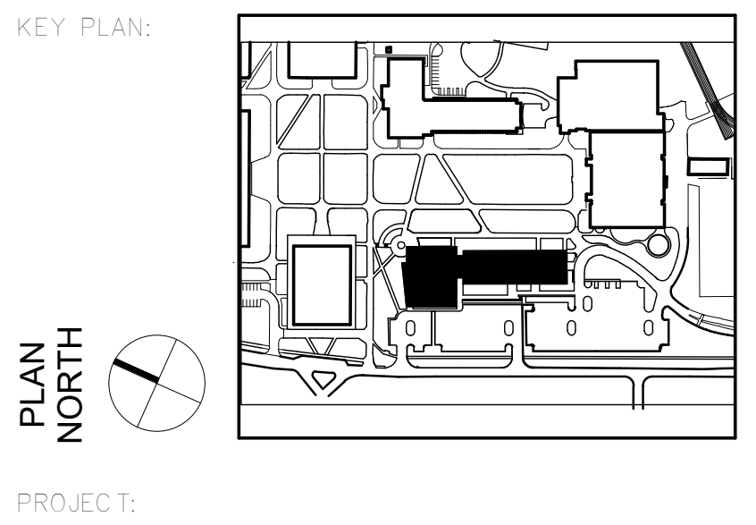
Matthew Lacey

EXPIRATION DATE: 05-31-2028

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

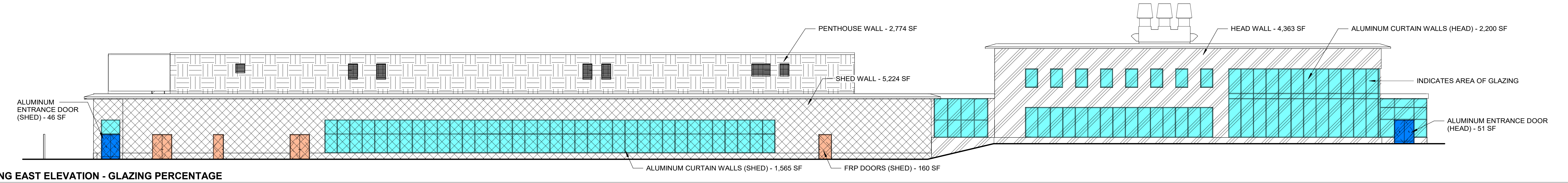
CODE COMPLIANCE

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

CC-101

AREA TOTALS - EAST ELEVATION

HEAD BUILDING		
HEAD WALL TOTAL AREA -	4,363	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	2,200	SF
ALUMINUM ENTRANCE DOOR TOTAL AREA -	51	SF
SHED BUILDING		
SHED WALL TOTAL AREA -	5,224	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	1,565	SF
ALUMINUM ENTRANCE DOOR TOTAL AREA -	46	SF
PENTHOUSE		
PENTHOUSE WALL TOTAL AREA -	2,774	SF


PENTHOUSE WALL - 2,774 SF
SHED WALL - 5,224 SF
HEAD WALL - 4,363 SF
ALUMINUM CURTAIN WALLS (HEAD) - 2,200 SF
INDICATES AREA OF GLAZING
ALUMINUM ENTRANCE DOOR (SHED) - 46 SF
ALUMINUM ENTRANCE DOOR (HEAD) - 51 SF
ALUMINUM CURTAIN WALLS (SHED) - 1,565 SF
FRP DOORS (SHED) - 160 SF

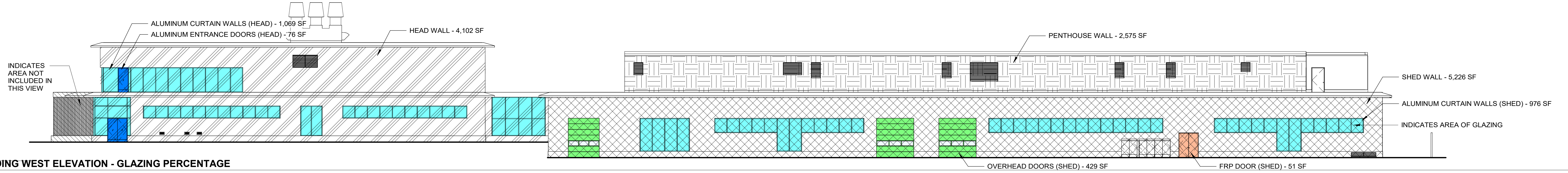
1 BUILDING EAST ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

3,862 SF	-	AREA OF GLAZING
8,499 SF	-	AREA OF OPAQUE WALLS & DOORS
12,361 SF	-	TOTAL WALL AREA

AREA TOTALS - WEST ELEVATION

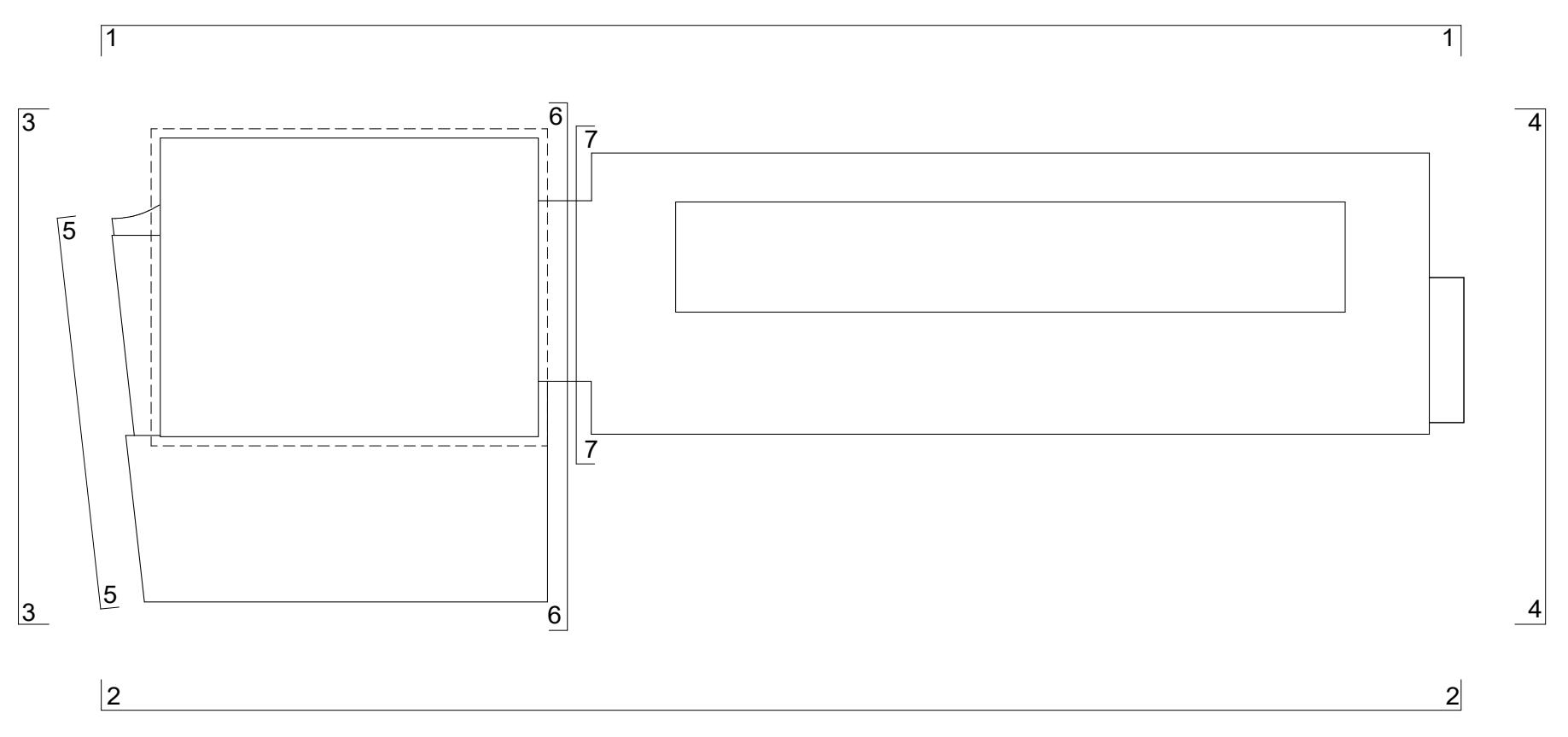
HEAD BUILDING		
HEAD WALL TOTAL AREA -	4,102	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	1,069	SF
ALUMINUM ENTRANCE DOOR TOTAL AREA -	76	SF
SHED BUILDING		
SHED WALL TOTAL AREA -	5,226	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	976	SF
FRP DOOR TOTAL AREA -	51	SF
OVERHEAD DOOR TOTAL AREA -	429	SF
PENTHOUSE		
PENTHOUSE WALL TOTAL AREA -	2,575	SF


ALUMINUM CURTAIN WALLS (HEAD) - 1,069 SF
ALUMINUM ENTRANCE DOORS (HEAD) - 76 SF
HEAD WALL - 4,102 SF
INDICATES AREA NOT INCLUDED IN THIS VIEW
PENTHOUSE WALL - 2,575 SF
SHED WALL - 5,226 SF
ALUMINUM CURTAIN WALLS (SHED) - 976 SF
INDICATES AREA OF GLAZING
OVERHEAD DOORS (SHED) - 429 SF
FRP DOOR (SHED) - 51 SF

2 BUILDING WEST ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

2,121 SF	-	AREA OF GLAZING
9,782 SF	-	AREA OF OPAQUE WALLS & DOORS
11,903 SF	-	TOTAL WALL AREA



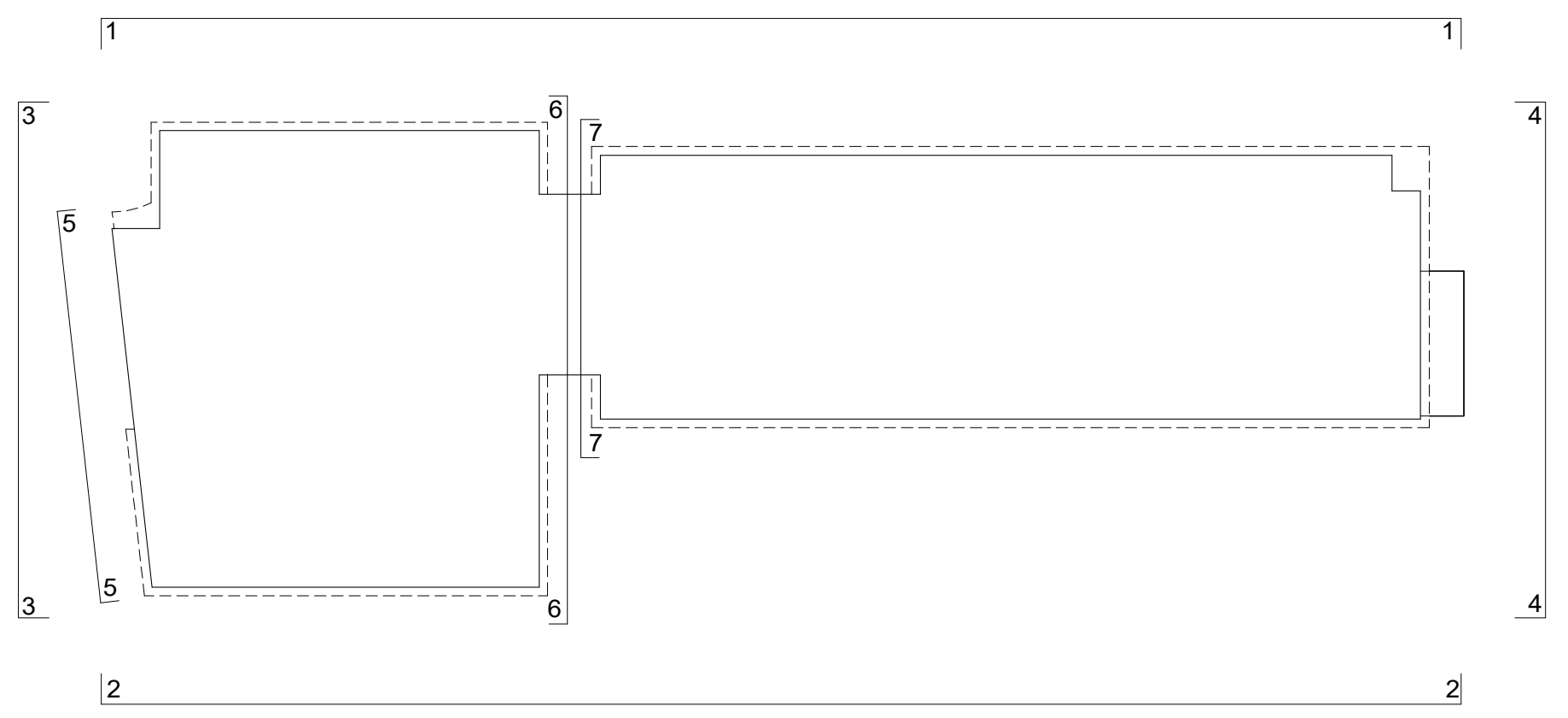
8 SECOND FLOOR - ELEVATION KEY PLAN
SCALE: 1" = 60'-0"

AREA TOTALS - NORTH ELEVATION

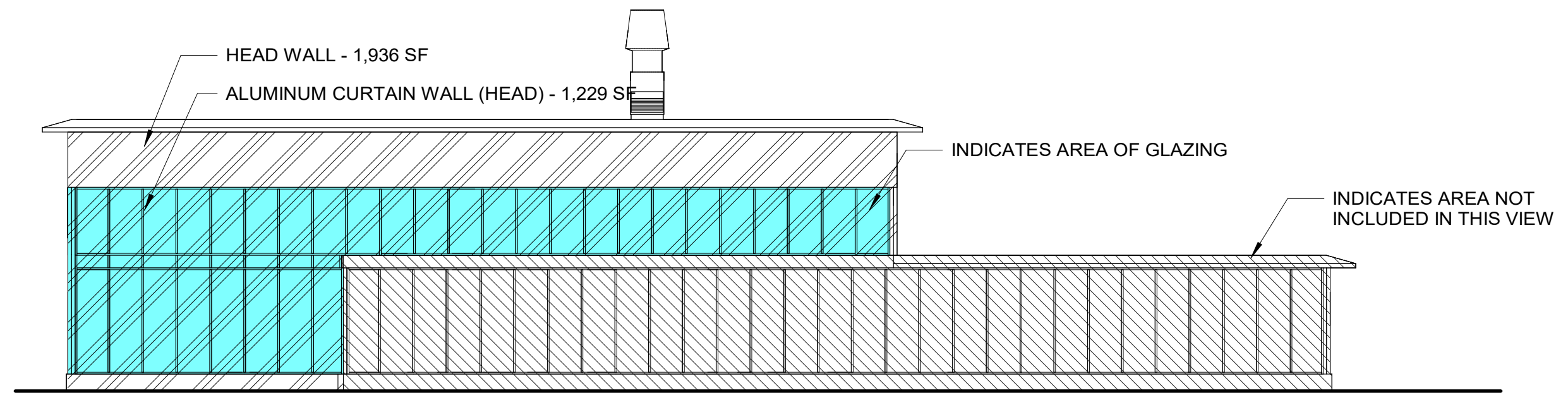
HEAD BUILDING		
HEAD WALL TOTAL AREA - (1,936 + 1,689) =	3,625	SF
ALUMINUM CURTAIN WALL TOTAL AREA - (1,229 + 1,455) =	1,069	SF
ALUMINUM ENTRANCE DOOR TOTAL AREA -	76	SF
SHED BUILDING		
SHED WALL TOTAL AREA -	515	SF
PENTHOUSE		
PENTHOUSE WALL TOTAL AREA -	455	SF
FRP DOOR TOTAL AREA -	50	SF

AREA TOTALS - SOUTH ELEVATION

HEAD BUILDING		
HEAD WALL TOTAL AREA -	2,770	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	111	SF
ALUMINUM ENTRANCE DOOR TOTAL AREA -	30	SF
FRP DOOR TOTAL AREA -	103	SF
SHED BUILDING		
SHED WALL TOTAL AREA -	1,675	SF
ALUMINUM CURTAIN WALL TOTAL AREA -	195	SF
OVERHEAD DOOR TOTAL AREA -	151	SF
PENTHOUSE		
PENTHOUSE WALL TOTAL AREA -	454	SF
FRP DOOR TOTAL AREA -	33	SF



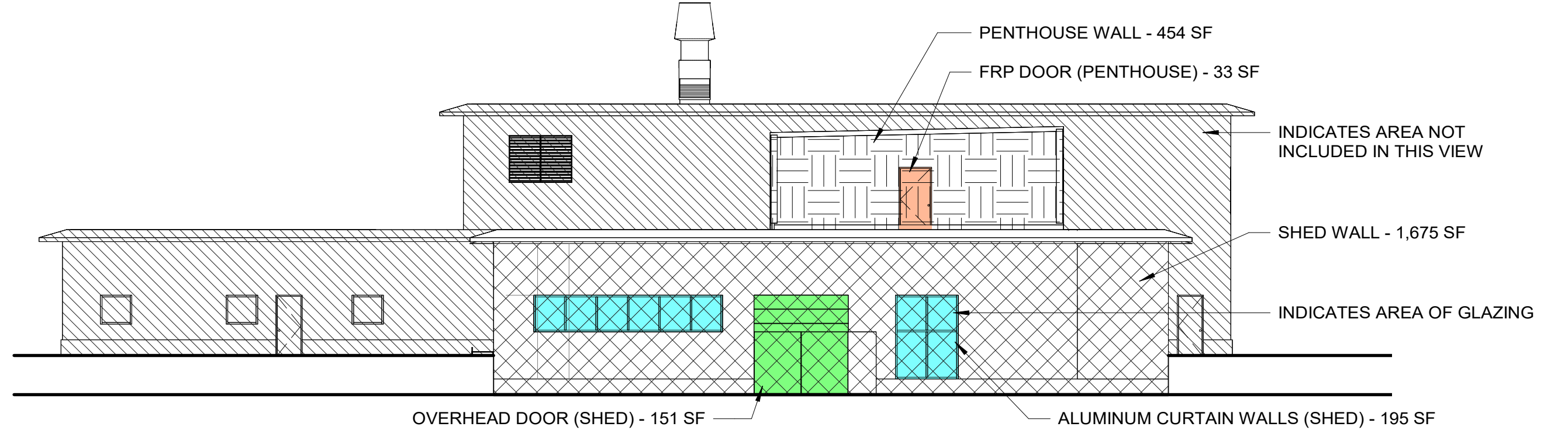
9 FIRST FLOOR - ELEVATION KEY PLAN
SCALE: 1" = 60'-0"


HEAD WALL - 1,936 SF
ALUMINUM CURTAIN WALL (HEAD) - 1,229 SF
INDICATES AREA OF GLAZING
INDICATES AREA NOT INCLUDED IN THIS VIEW

3 BUILDING NORTH ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

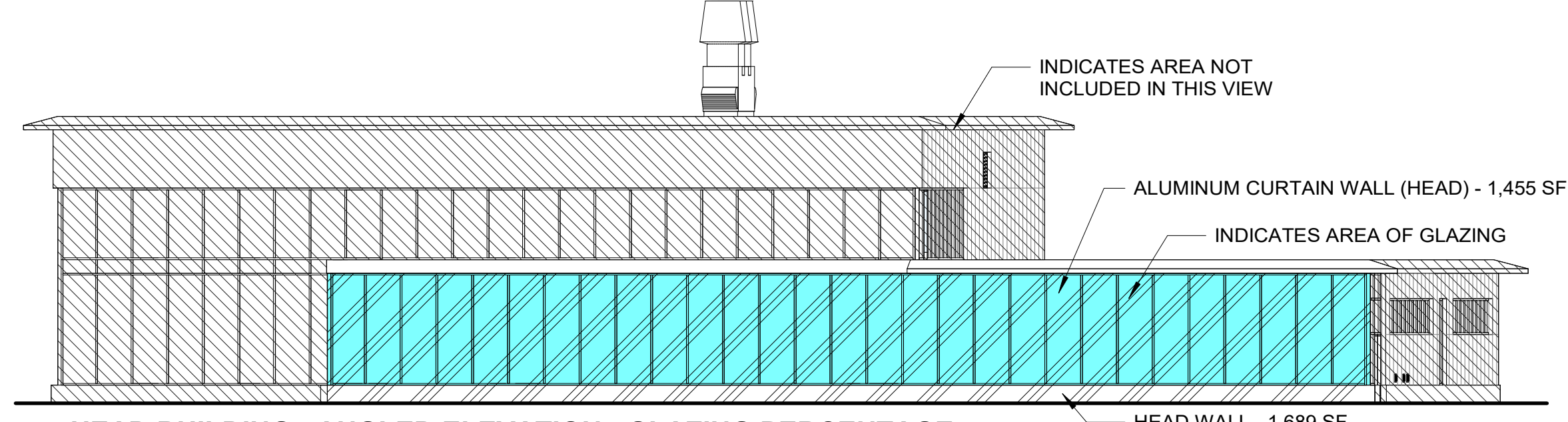
1,229 SF	-	AREA OF GLAZING
707 SF	-	AREA OF OPAQUE WALLS & DOORS
1,936 SF	-	TOTAL WALL AREA


PENTHOUSE WALL - 454 SF
FRP DOOR (PENTHOUSE) - 33 SF
INDICATES AREA NOT INCLUDED IN THIS VIEW
SHED WALL - 1,675 SF
INDICATES AREA OF GLAZING
OVERHEAD DOOR (SHED) - 151 SF
ALUMINUM CURTAIN WALLS (SHED) - 195 SF

4 BUILDING SOUTH ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

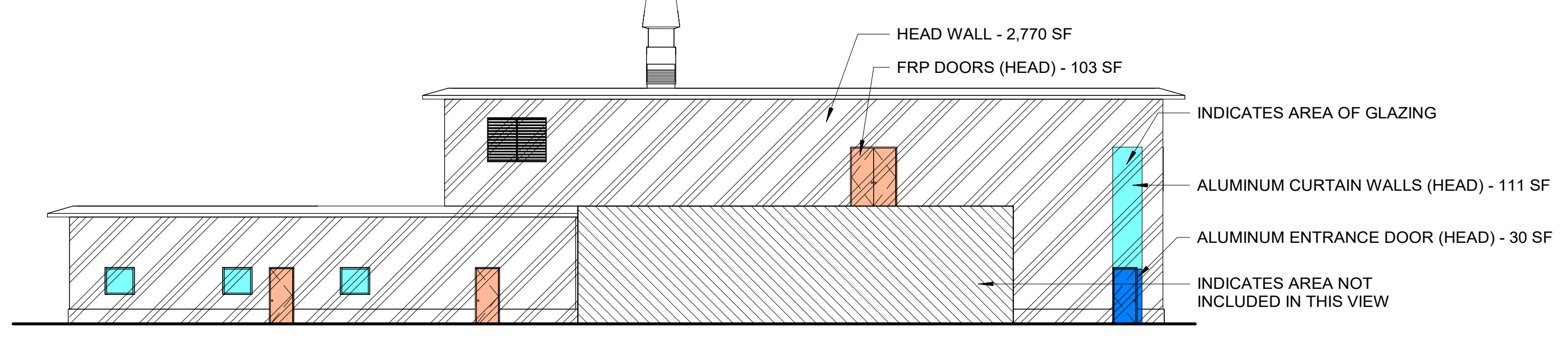
195 SF	-	AREA OF GLAZING
1,934 SF	-	AREA OF OPAQUE WALLS & DOORS
2,129 SF	-	TOTAL WALL AREA


INDICATES AREA NOT INCLUDED IN THIS VIEW
ALUMINUM CURTAIN WALL (HEAD) - 1,455 SF
INDICATES AREA OF GLAZING
HEAD WALL - 1,689 SF

5 HEAD BUILDING - ANGLED ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

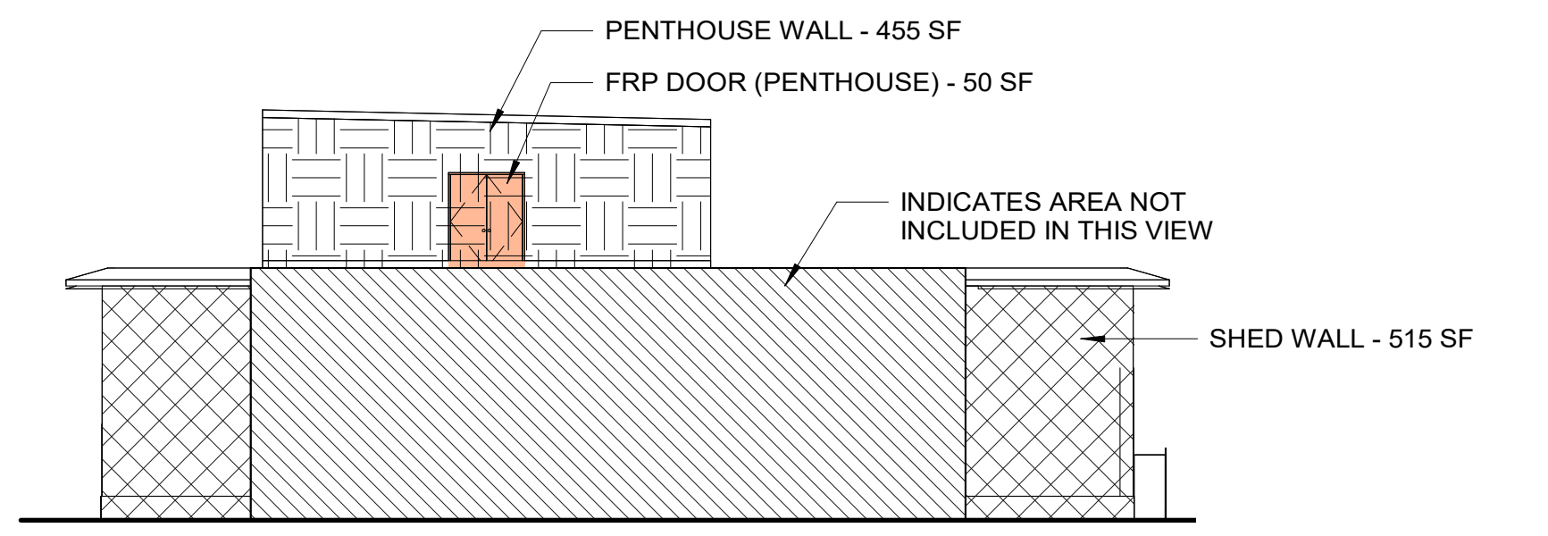
1,455 SF	-	AREA OF GLAZING
234 SF	-	AREA OF OPAQUE WALLS & DOORS
1,689 SF	-	TOTAL WALL AREA


HEAD WALL - 2,770 SF
FRP DOORS (HEAD) - 103 SF
INDICATES AREA OF GLAZING
ALUMINUM CURTAIN WALLS (HEAD) - 111 SF
ALUMINUM ENTRANCE DOOR (HEAD) - 30 SF
INDICATES AREA NOT INCLUDED IN THIS VIEW

6 HEAD BUILDING - SOUTH ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGES

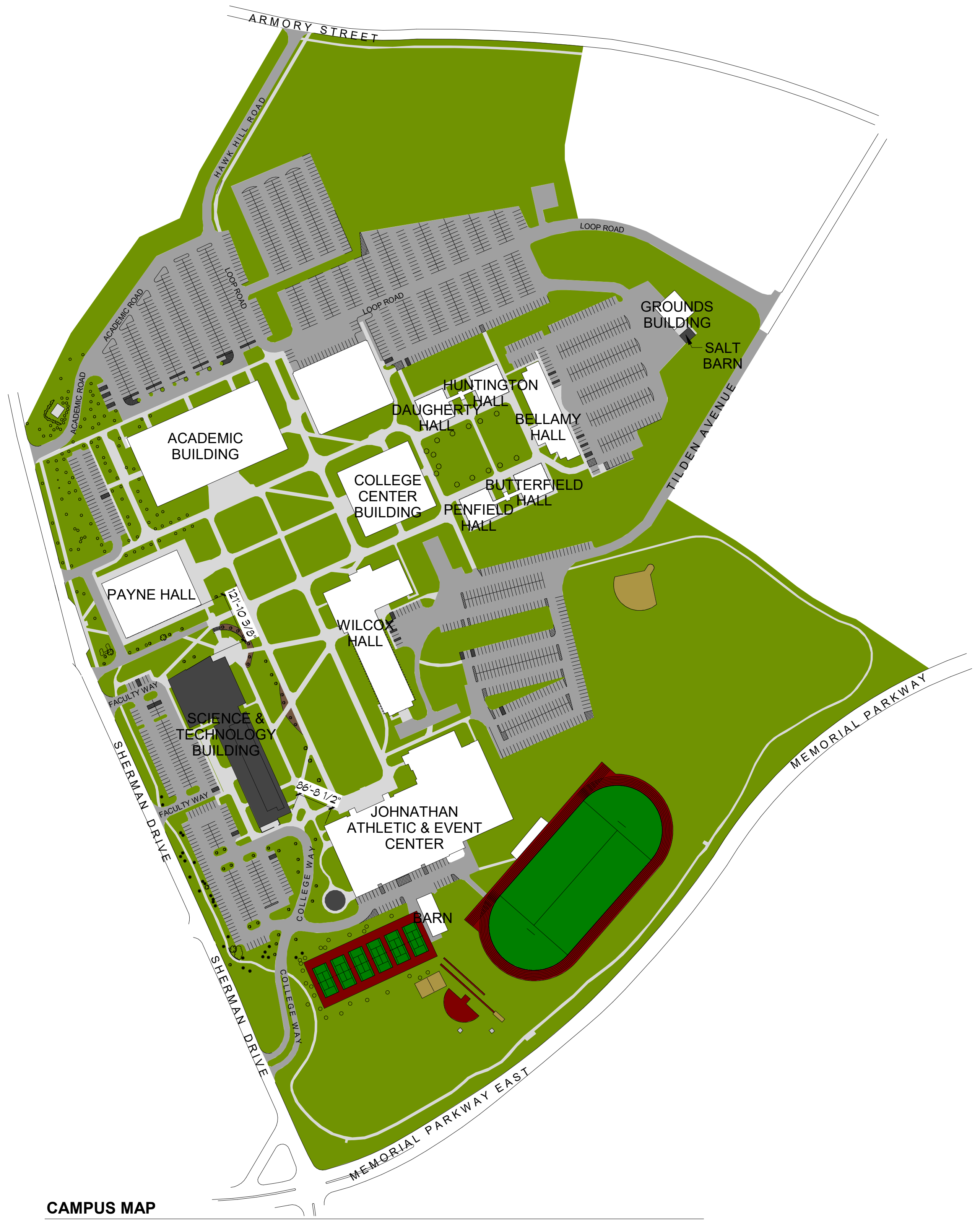
141 SF	-	AREA OF GLAZING
2,629 SF	-	AREA OF OPAQUE WALLS & DOORS
2,770 SF	-	TOTAL WALL AREA


PENTHOUSE WALL - 455 SF
FRP DOOR (PENTHOUSE) - 50 SF
INDICATES AREA NOT INCLUDED IN THIS VIEW
SHED WALL - 515 SF

7 SHED BUILDING - NORTH ELEVATION - GLAZING PERCENTAGE
SCALE: 1/16" = 1'-0"

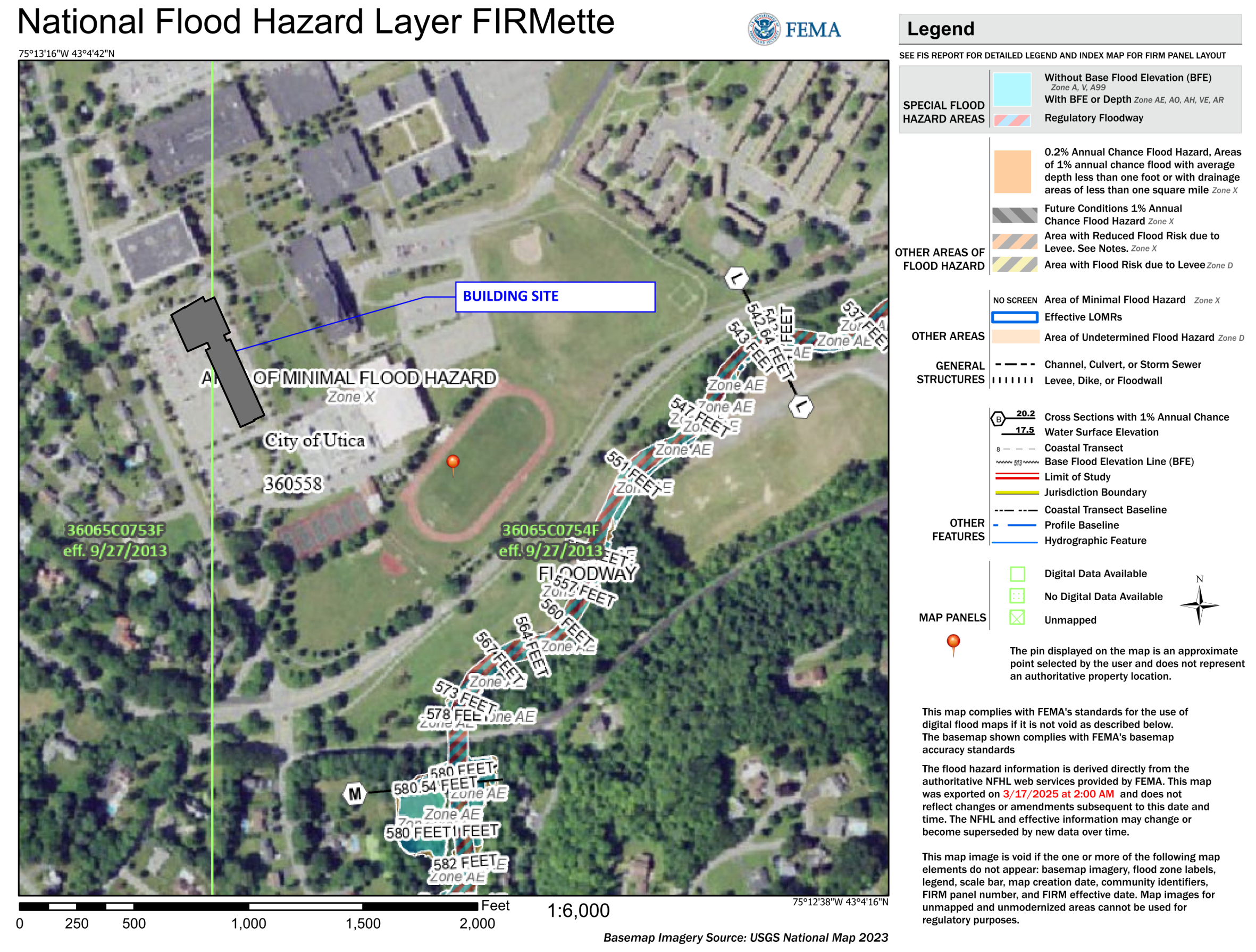
SQUARE FOOTAGES

0 SF	-	AREA OF GLAZING
970 SF	-	AREA OF OPAQUE WALLS & DOORS
970 SF	-	TOTAL WALL AREA


ARMORY STREET
HAWK HILL ROAD
LOOP ROAD
ACADEMIC ROAD
GROUNDS BUILDING
SALT BARN
HUNTINGTON HALL
DAUGHERTY HALL
BELLAMY HALL
ACADEMIC BUILDING
COLLEGE CENTER BUILDING
BUTTERFIELD HALL
PENFIELD HALL
TILDEN AVENUE
PAYNE HALL
121'-10 3/8"
WILCOX HALL
FACULTY WAY
SCIENCE & TECHNOLOGY BUILDING
86'-8 1/2"
JOHNATHAN ATHLETIC & EVENT CENTER
BARN
COLLEGE WAY
SHERMAN DRIVE
MEMORIAL PARKWAY
MEMORIAL PARKWAY EAST

CAMPUS MAP
SCALE: 1" = 200'-0"
NOT TO SCALE

National Flood Hazard Layer FIRMette


FEMA
75°13'16"W 43°4'42"N
BUILDING SITE
AREA OF MINIMAL FLOOD HAZARD
Zone X
City of Utica
360558
36065C0753F
eff. 9/27/2013
36065C0754F
eff. 9/27/2013
FLOODWAY
Zone AE
537 FEET
542.64 FEET
543 FEET
547 FEET
551 FEET
557 FEET
560 FEET
564 FEET
567 FEET
573 FEET
578 FEET
580 FEET
580.54 FEET
582 FEET
L
M
0
250
500
1,000
1,500
2,000
Feet
1:6,000
75°12'38"W 43°4'16"N
Legend
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
SPECIAL FLOOD HAZARD AREAS
Without Base Flood Elevation (BFE) Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD
0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee. See Notes. Zone X
Area with Flood Risk due to Levee Zone D
OTHER AREAS
NO SCREEN Area of Minimal Flood Hazard Zone X
Effective LOMRs
Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall
OTHER FEATURES
20.2 Cross Sections with 1% Annual Chance
17.5 Water Surface Elevation
Coastal Transect
513 Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature
MAP PANELS
Digital Data Available
No Digital Data Available
Unmapped
N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/17/2025 at 2:00 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Basemap Imagery Source: USGS National Map 2023

ELEVATION LEGEND

- ▨ - HEAD WALL (R-23 CAVITY INSULATION, R-12 CONTINUOUS INSULATION)
- ▩ - SHED WALL (R-13 CONTINUOUS INSULATION)
- ▦ - PENTHOUSE WALL (U-0.052)
- 🟦 - ALUMINUM CURTAIN WALL (U-0.35)
- 🟦 - ALUMINUM ENTRANCE DOOR (U-0.66)
- 🟧 - FRP DOOR (U-0.31)
- 🟩 - OVERHEAD DOOR (U-0.19)

TOTAL AREAS & PERCENTAGES

AREA OF GLAZING			AREA OF OPAQUE WALLS & DOORS		
3,862 SF			8,499 SF		
2,121 SF			9,782 SF		
1,229 SF			707 SF		
195 SF			1,934 SF		
1,455 SF			234 SF		
141 SF			2,629 SF		
+ 0 SF			+ 970 SF		
9,003 SF	**+**		**24,755 SF**	**=**	**33,758 TOTAL WALL AREA**
27% GLAZING			**73% OPAQUE**		

MOHAWK VALLEY COMMUNITY COLLEGE
1101 SHERMAN DRIVE
UTICA, NY 13501
(315) 792-5400

ARCHITECT:

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ARCHITECTS & PLANNERS, PC
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315 733 3344

Mitchell Giurgola
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212 663 4000

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MEP ENGINEER:
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315 733 9000

SITE | CIVIL ENGINEER:
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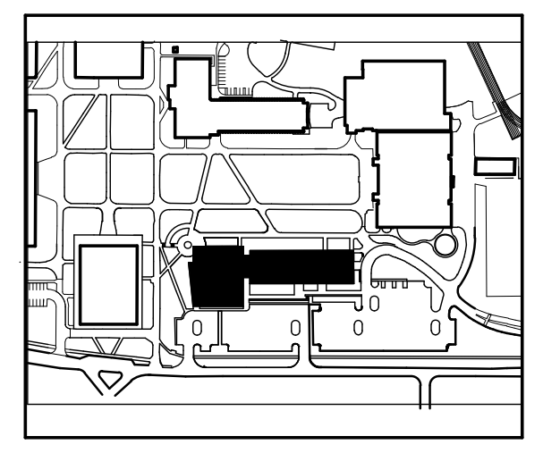
Syracuse, NY 13204
315 476 1022

SEAL:
MATTHEW E. LACEY
039779
EXPIRATION DATE: 05-31-2028

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
GLAZING PERCENTAGES AND MAPS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

CC-102

COM*check* Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code: 2020 New York State Energy Conservation Construction Code
Project Title: MVCC SandT
Location: Utica, New York
Climate Zone: 6a
Project Type: New Construction
Vertical Glazing / Wall Area: 27%

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Building Area	Floor Area
1-Whole Building (School/University) : Nonresidential	61945

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{(a)}$
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Whole Building]	43064	---	30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, Vertical 3 ft., [Bldg. Use 1 - Whole Building] (d)	1195	---	10.0	0.510	0.540
NORTH					
Shed Wall - 6/CC101: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Whole Building]	515	0.0	13.0	0.063	0.080
Penthouse Wall - 6/CC101: Other Steel Framed Wall, [Bldg. Use 1 - Whole Building] (b)	455	---	---	0.052	0.064
FRP Door - A903: Insulated Metal, Swinging, [Bldg. Use 1 - Whole Building]	50	---	---	0.310	0.370
Head Wall - 5/CC101: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Whole Building]	3625	23.0	12.0	0.045	0.064
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	2684	---	---	0.350	0.360
EAST					
Penthouse Wall - 6/CC101: Other Steel Framed Wall, [Bldg. Use 1 - Whole Building] (b)	2774	---	---	0.052	0.064
Shed Wall - 6/CC101: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Whole Building]	5224	0.0	13.0	0.063	0.080
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	1565	---	---	0.350	0.360
Aluminum Entrance Door - A903: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID EFCO D202, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	46	---	---	0.660	0.770
FRP Door - A903: Insulated Metal, Swinging, [Bldg. Use 1 - Whole Building]	160	---	---	0.310	0.370
Head Wall - 5/CC101: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Whole Building]	4363	23.0	12.0	0.045	0.064
Aluminum Entrance Door - A903: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID EFCO D202, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	51	---	---	0.660	0.770
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	2200	---	---	0.350	0.360
SOUTH					
Shed Wall - 6/CC101: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Whole Building]	1675	0.0	13.0	0.063	0.080
Overhead Door - A903: Other (U-Factor option), Garage door 14% glazing, [Bldg. Use 1 - Whole Building]	151	---	---	0.190	0.310
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	195	---	---	0.350	0.360
Head Wall - 5/CC101: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Whole Building]	2770	23.0	12.0	0.045	0.064
FRP Door - A903: Insulated Metal, Swinging, [Bldg. Use 1 - Whole Building]	103	---	---	0.310	0.370
Aluminum Entrance Door - A903: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID EFCO D202, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	30	---	---	0.660	0.770
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	111	---	---	0.350	0.360
Penthouse Wall - 6/CC101: Other Steel Framed Wall, [Bldg. Use 1 - Whole Building] (b)	454	---	---	0.052	0.064
FRP Door - A903: Insulated Metal, Swinging, [Bldg. Use 1 - Whole Building]	33	---	---	0.310	0.370
WEST					
Penthouse Wall - 6/CC101: Other Steel Framed Wall, [Bldg. Use 1 - Whole Building] (b)	2575	---	---	0.052	0.064
Shed Wall - 6/CC101: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - Whole Building]	5226	0.0	13.0	0.063	0.080
Overhead Door - A903: Other (U-Factor option), Garage door 14% glazing, [Bldg. Use 1 - Whole Building]	429	---	---	0.190	0.310
FRP Door - A903: Insulated Metal, Swinging, [Bldg. Use 1 - Whole Building]	51	---	---	0.310	0.370
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	976	---	---	0.350	0.360
Head Wall - 5/CC101: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Whole Building]	4102	23.0	12.0	0.045	0.064
Aluminum Entrance Door - A903: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID EFCO D202, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	76	---	---	0.660	0.770
Aluminum Curtainwall - A303: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID EFCO 5600XTherm, SHGC 0.38, [Bldg. Use 1 - Whole Building] (c)	1069	---	---	0.350	0.360

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Project Notes

Envelope PASSES: Design 9% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2020 New York State Energy Conservation Construction Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matthew Lacey - Principal | Signature | 03/31/2025
Name - Title | | Date

039779
EXPIRATION DATE: 05-31-2028

62,000 sf new building, partially wood frame, partially steel framed

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COM*check* Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York State Energy Conservation Construction Code
Project Title: MVCC SandT
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Whole Building (School/University)	61945	0.73	45158
		Total Allowed Watts =	45158

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Whole Building (School/University)				
LED: L1A: 4' linear pendant: Other:	1	18	15	274
LED: L1B: 5' linear pendant: Other:	1	26	19	494
LED: L2A: 4' linear lay-in: Other:	1	6	18	108
LED: L2B: 4' linear lay-in: Other:	1	9	32	284
LED: L2C: 6' linear lay-in: Other:	1	24	43	1022
LED: L2D: 8' linear lay-in: Other:	1	17	85	1442
LED: L3A: 4' wing rail: Other:	1	1	15	15
LED: L3B: 5' wing rail: Other:	1	3	19	57
LED: L3C: 6' wing rail: Other:	1	29	23	661
LED: L4: 4' high abuse linear: Other:	1	12	24	283
LED: L5A: 2x2 flat panel: Other:	1	6	22	132
LED: L5B: 2x2 flat panel: Other:	1	4	30	121
LED: L5C: 2x2 flat panel: Other:	1	41	41	1665
LED: L6: 4" dia. downlight: Other:	1	6	6	39
LED: L7: 16" dia. low bay: Other:	1	56	55	3102
LED: L7A: 12" dia. low bay: Other:	1	8	35	280
LED: L8B: 4.5" dia. cylinder: Other:	1	23	24	552
LED: L8A: 4.5" dia. cylinder: Other:	1	4	24	96
LED: L8C: 4.5" dia. cylinder: Other:	1	27	24	648
LED: L9A: 4' perimeter slot: Other:	1	3	19	57
LED: L9B: 5' perimeter: Other:	1	1	24	24
LED: L9C: 6' perimeter slot: Other:	1	1	28	28
LED: L9D: 8' perimeter slot: Other:	1	4	38	151
LED: L10A: 36" dia. shade: Other:	1	3	48	144
LED: L10B: 36" dia shade: Other:	1	3	48	144
LED: L10C: 48" dia. shade: Other:	1	5	77	385
LED: L10D: 48" dia. shade: Other:	1	5	77	385
LED: L11: 16" dia. low bay: Other:	1	28	192	5376
LED: L11A: 12" dia. low bay: Other:	1	2	42	84
LED: L12A: 4' lensed strip light: Other:	1	22	24	528
LED: L12B: 4' lensed strip light: Other:	1	13	16	213
LED: L12C: 4' lensed strip light: Other:	1	26	24	624
LED: L12D: 4' lensed strip light: Other:	1	34	35	1190
LED: L13: 8" dia. cylinder: Other:	1	51	24	1209
LED: L14: vaporproof: Other:	1	1	26	26
LED: L15: step light: Other:	1	25	4	98
LED: L16A: 51'-4" chain module: Other:	1	1	253	253
LED: L16B: 40' chain module: Other:	1	1	193	193
LED: L17: compact floodlight: Other:	1	4	51	204
LED: L18: 32' wall grazer: Other:	1	1	192	192
LED: L19: inderict wall scope: Other:	1	1	100	100
LED: I7C: 16" dia. low bay: Other:	1	9	70	630
LED: L20: display light: Other:	1	5	55	276
LED: L21: under cabinet light: Other:	1	31	9	291
LED: EX1: exit light: Other:	1	16	1	22
LED: EX2: exit light: Other:	1	10	1	14
LED: EX3: exit light: Other:	1	2	1	2
LED: EX4: exit light: Other:	1	2	1	2
LED: EX5: exit light special letters: Other:	1	4	1	6
LED: EX6: exit light special letters: Other:	1	1	1	1
LED: L13A: 8" dia. cylinder: Other:	1	21	40	840
LED: L2E: 8' linear lay-in: Other:	1	13	98	1279
			Total Proposed Watts =	26247

Interior Lighting PASSES: Design 42% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 New York State Energy Conservation Construction Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

William H. Towne - President | Signature | 03/16/2025
Name - Title | | Date

No. 045860

W. H. Towne

COM*check* Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York State Energy Conservation Construction Code
Project Title: MVCC SandT
Project Type: New Construction
Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
uncovered (Parking area)	48335 ft2	0.04	Yes	1933
Vest. V101 (Entry canopy)	109 ft2	0.25	Yes	27
		Total Tradable Watts (a) =		2012
		Total Allowed Watts =		2012
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
uncovered (Parking area, 48335 ft2): Tradable Wattage				
LED: LX2: light pole: Other:	1	1	44	44
LED: LX4: light pole: Other:	2	4	88	352
LED: LX1: wall pack: Other:	1	18	34	616
Vest. 103 (Entry canopy, 87 ft2): Tradable Wattage				
Vest. V101 (Entry canopy, 109 ft2): Tradable Wattage				
LED: LX3: pendant: Other:	1	1	15	15
Vest. V100 (Entry canopy, 120 ft2): Tradable Wattage				
			Total Tradable Proposed Watts =	1027

Exterior Lighting PASSES: Design 57% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2020 New York State Energy Conservation Construction Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

William H. Towne - President | Signature | 03/16/2025
Name - Title | | Date

W. H. Towne

No. 045860

COM*check* Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2020 New York State Energy Conservation Construction Code
Project Title: MVCC SandT
Location: Utica, New York
Climate Zone: 6a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity System Type & Description

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 240 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 212 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-WELD | Welding Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-WELD-REF Return, Constant Volume, 5700 CFM, 3.0 motor nameplate hp, 2.0 design brake hp (2.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-WELD-SF Supply, Constant Volume, 6000 CFM, 5.0 motor nameplate hp, 3.6 design brake hp (3.6 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 158 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 140 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-HVAC | HVAC Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-HVAC-SF Supply, Constant Volume, 4000 CFM, 5.0 motor nameplate hp, 3.1 design brake hp (3.1 max. BHP), 70.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-HVAC-REF Return, Constant Volume, 3800 CFM, 2.0 motor nameplate hp, 1.6 design brake hp (1.6 max. BHP), 70.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 240 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 212 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-MACHCNC | Machine/CNC Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-MACHCNC-SF Supply, Constant Volume, 6000 CFM, 5.0 motor nameplate hp, 3.6 design brake hp (3.6 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-MACHCNC-REF Return, Constant Volume, 5700 CFM, 3.0 motor nameplate hp, 2.0 design brake hp (2.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 200 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 175 kBtu/h, Air Economizer

Quantity System Type & Description

No minimum efficiency requirement applies
Fan System: HVACU-CIVIL | Civil/CAD Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-CIVIL-SF Supply, Multi-Zone VAV, 5000 CFM, 5.0 motor nameplate hp, 4.2 design brake hp (4.2 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-CIVIL-REF Return, Multi-Zone VAV, 4750 CFM, 2.0 motor nameplate hp, 1.7 design brake hp (1.7 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 240 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 212 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-MAT | Materials Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-MAT-SF Supply, Constant Volume, 6000 CFM, 7.5 motor nameplate hp, 3.6 design brake hp (3.6 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-MAT-REF Return, Constant Volume, 5700 CFM, 3.0 motor nameplate hp, 2.0 design brake hp (2.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 285 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 248 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-ELEC | Electric Codes Lab -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-ELEC-REF Return, Constant Volume, 6650 CFM, 3.0 motor nameplate hp, 2.5 design brake hp (2.5 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-ELEC-SF Supply, Constant Volume, 7000 CFM, 7.5 motor nameplate hp, 4.0 design brake hp (4.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 405 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 355 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-CONTROLS | Controls Lab and ADA Ramp -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-CONTROLS-SF Supply, Multi-Zone VAV, 10000 CFM, 10.0 motor nameplate hp, 8.7 design brake hp (8.7 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-CONTROLS-REF Return, Multi-Zone VAV, 9500 CFM, 5.0 motor nameplate hp, 3.1 design brake hp (3.1 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 600 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 530 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-CLASS | Head Classrooms -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVACU-CLASS-SF Supply, Multi-Zone VAV, 15000 CFM, 20.0 motor nameplate hp, 13.8 design brake hp (13.8 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-CLASS-REF Return, Multi-Zone VAV, 14250 CFM, 7.5 motor nameplate hp, 4.8 design brake hp (4.8 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 600 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 530 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: HVACU-NHEAD | North of Head Building/Lobby -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:

Quantity System Type & Description

HVACU-NHEAD-SF Supply, Multi-Zone VAV, 15000 CFM, 20.0 motor nameplate hp, 13.8 design brake hp (13.8 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
HVACU-NHEAD-REF Return, Multi-Zone VAV, 14250 CFM, 7.5 motor nameplate hp, 4.8 design brake hp (4.8 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 1950 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 580 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: MUAU-WELD | Welding Lab Make Up Air -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
MUAU-WELD-SF-2 Supply, Single-Zone VAV, 7500 CFM, 10.0 motor nameplate hp, 6.1 design brake hp (6.1 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
MUAU-WELD-SF-1 Supply, Single-Zone VAV, 7500 CFM, 10.0 motor nameplate hp, 6.1 design brake hp (6.1 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Multiple-Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 1950 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 925 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: MUAU-CHEM | Chemistry Labs -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
MUAU-CHEM-SF-1 Supply, Constant Volume, 7500 CFM, 10.0 motor nameplate hp, 7.0 design brake hp (7.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency
MUAU-CHEM-SF-2 Supply, Constant Volume, 7500 CFM, 10.0 motor nameplate hp, 7.0 design brake hp (7.0 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 150 kBtu/h
No minimum efficiency requirement applies
Fan System: HVU-BOILER | Boiler Room Combustion Air -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
HVU-BOILER-SF Supply, Constant Volume, 3000 CFM, 3.0 motor nameplate hp, 2.3 design brake hp (2.3 max. BHP), 75.0 fan efficiency grade, 75.0 total fan efficiency, 70.0 design fan efficiency

1 HVAC System (Unknown w/ PerimeterSystem):
Heating: 3 each - Unit Heater, Hot Water, Capacity = 270 kBtu/h
No minimum efficiency requirement applies

1 HVAC System (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Hot Water, Capacity = 215 kBtu/h
No minimum efficiency requirement applies

2 Plant:
Heating: Hot Water Boiler, Capacity 5500 kBtu/h, Gas
Proposed Efficiency: 85.00 % Ec, Required Efficiency: 82.00 % Ec

1 Plant:
Cooling: Water Chiller, Capacity 240 tons, Condenser Air-Cooled, Rotary Screw or Scroll Chiller
Proposed Efficiency: 10.10 EER-FL, Required Efficiency: 10.10 EER-FL
Proposed Part Load Efficiency: 17.35 EER-IPLV, Required Part Load Efficiency: 14.00 EER-IPLV

2 Water Heater:
Gas Storage Water Heater, Capacity: 120 gallons, Input Rating: 300 kBtu/h w/ Circulation Pump
Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2020 New York State Energy Conservation Construction Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

William H. Towne - President | Signature | 03/16/2025
Name - Title | | Date

No. 045860

W. H. Towne

MECHANICAL COMPLIANCE STATEMENTS

1. To the best of our knowledge and understanding, a third party commissioning agent will complete the requirements set forth in section C408 of the 2020 NYS Energy Conservation Construction Code.
2. To the best of our knowledge and understanding, heating and cooling equipment has been sized and selected in accordance with section C403 of the 2020 NYS Energy Conservation Construction Code.

COM*check* Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2020 New York State Energy Conservation Construction Code

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1]^{1}	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** cc101, cc102, cc103
C103.2 [PR2]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR3]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR4]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1 [PR10]^{1}	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** CC-102

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.1 [PR11]^{1}	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** A-601

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4]^{2}	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2.1 [FO6]^{1}	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [FO3]^{2}	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7]^{2}	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Envelope Assemblies table for values.*
C403.12.2, C403.12.3 [FO9]^{3}	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12]^{2}	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.1.3 [FR13]^{1}	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.3 [FR10]^{1}	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8]^{1}	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.2.1 [FR19]^{1}	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** CC-101, 07 26 00
C402.5.2, C402.5.4 [FR18]^{3}	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.7 [FR17]^{3}	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Doors not intended to be used as a building entrance. **Location on plans/spec:** A-200

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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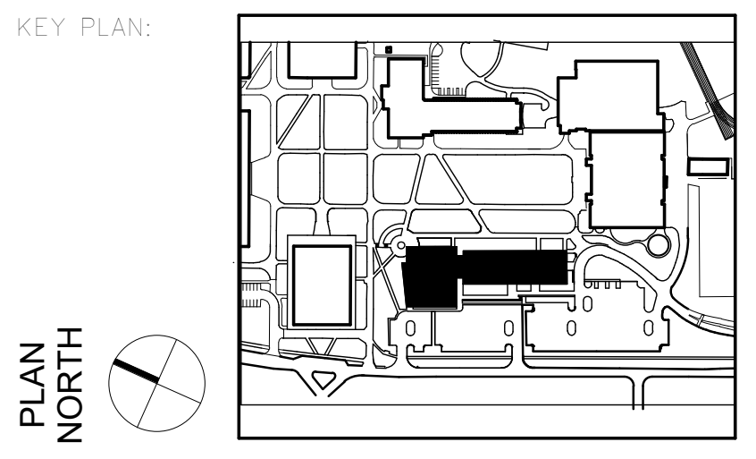
039779
EXPIRATION DATE: 05-31-2028

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COMCHECK COMPLIANCE CERTIFICATES & INSPECTION CHECKLIST

PROJECT NO: 23000 DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION SCALE:

EN-101

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** DWG's P-103 thru P-401
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.5, C403.2.4.3 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.7.7 for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.7 [ME58][3]	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-603, M-604
C403.11.3 [ME61][2]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-604
C403.8.1 [ME65][3]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.2 [ME21][2]	HVAC fan motors not oversized beyond allowable limits.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][2]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.5 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.12.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.1 [ME112][3]	Zone isolation devices and controls installed where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.3 [ME140][3]	Units that provide ventilation air to multiple zones and operate in combination with zone heating and cooling systems do not use heating or heat recovery to warm supply air to a temperature greater than 60°F when representative building loads or outdoor air temperatures indicate that the majority of zones require cooling.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Labaratory fume hood systems with direct makeup (auxiliary) air supply equal to at 75% of the exhaust rate.
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.11.1, C403.11.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70, DWG M-203 & M-204
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.4.1.1 [ME75][2]	Hydronic and multizone HVAC system controls areVAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70, Static Pressure Control on Multi Zone Fan Systems
C403.4.1.2 [ME67][2]	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.4.1.3 [ME24][2]	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.4.3 [ME69][3]	The heating of fluids in hydronic systems that have been previously mechanically cooled, and the cooling of fluids that have been previously mechanically heated are limited in accordance with Sections C403.4.3.1-C403.4.3.3. Single boiler systems >500,000 Btu/h have multistaged or modulating burner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70 & DWG M-603
C403.4.3.1 [ME50][2]	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.4 [ME68][3]	Hydronic systems greater than 300,000 Btu/h designed for variable fluid flow. See section language for full details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.3.4 [ME107][3]	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-603 *See the Mechanical Systems list for values.*

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.4.5 [ME26][3]	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.6.1 [ME130][3]	Supply air systems serving multiple zones have VAV systems with controls configured to reduce the volume of air that is reheated, recooled or mixed in each zone. See section for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.6.2 [ME131][3]	Single-duct VAV systems use terminal devices configured to reduce the supply of primary supply air before reheating or recooling takes place.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.6.3 [ME132][3]	Systems that have 1 warm air duct and 1 cool air duct use terminal devices configured to reduce the flow from one duct to a minimum before mixing of air from the other duct takes place.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.6.4 [ME133][3]	Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities > 90,000 Btu/h not equipped with air economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.6.5 [ME134][3]	Multiple zone HVAC systems have supply air temperature reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.6.7 [ME136][3]	Parallel-flow fan-powered VAV air terminals have automatic controls configured to 1) turn off the terminal fan except when space heating is required or where required for ventilation, 2) turn on the terminal fan as the first stage of heating before the heating coil is activated, and 3) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or, reverse the terminal damper logic and provide heating from the central air handler by primary air.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.6.8 [ME137][3]	Systems with DDC of individual zones reporting to the central control panel configured to reset the static pressure setpoint based on zone requiring the most pressure. The DDC is capable of monitoring zone damper positions or have an alternative method of indicating the need for static pressure. See section for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.6.9 [ME138][3]	Static pressure sensors used to control VAV fans located such that the controller setpoint is <= 1.2 inches w.c.. Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor located on each major branch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.6.6 [ME135][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70 *See the Mechanical Systems list for values.*
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.9.5 [ME31][3]	Condenser heat recovery system that can heat water to 85 ºF or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Design SWH load = 1 MMBtu/h.
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.2.1 [ME111][2]	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2.2 [ME54][3]	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Lighting controlled by occupancy sensors.

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** New buildings having total connected lighting power = the adjusted interior lightin powere allowance (LPA adj, refer to section details and formula).
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL28][1]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.6 [EL30][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][1]	Roof insulation installed per manufacturer’s instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** A-601, A-602
C402.2.1 [IN20][1]	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer’s instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][3]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C105 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** CC-101. A-401 - A-406

Additional Comments/Assumptions:

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** a-903
C402.5.8 [FI26][3]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.2 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-201 thru M-204
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.2.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.2.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.2.4.2.1, C403.2.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C403.2.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Spec 23 55 70
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-601

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.4 [FI25][2]	All piping insulated in accordance with section details and Table C403.11.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-603
C404.6.1 [FI12][3]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

MOHAWK VALLEY COMMUNITY COLLEGE

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315 733 9000

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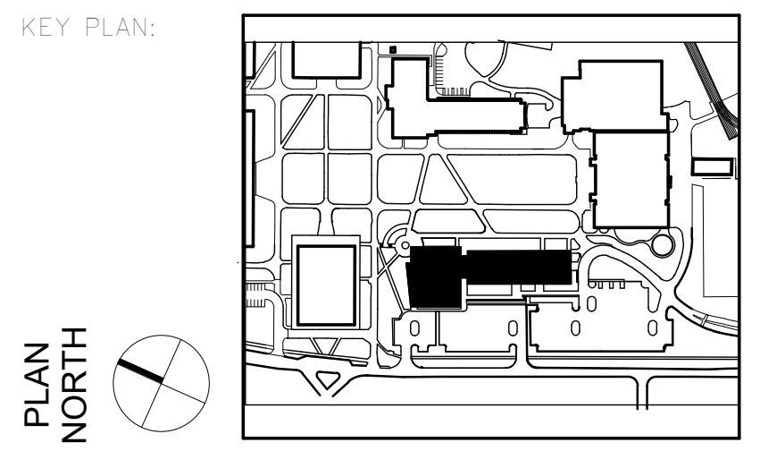
SEAL:

MATTHEW E. LACEY
039779
EXPIRATION DATE: 05-31-2028

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

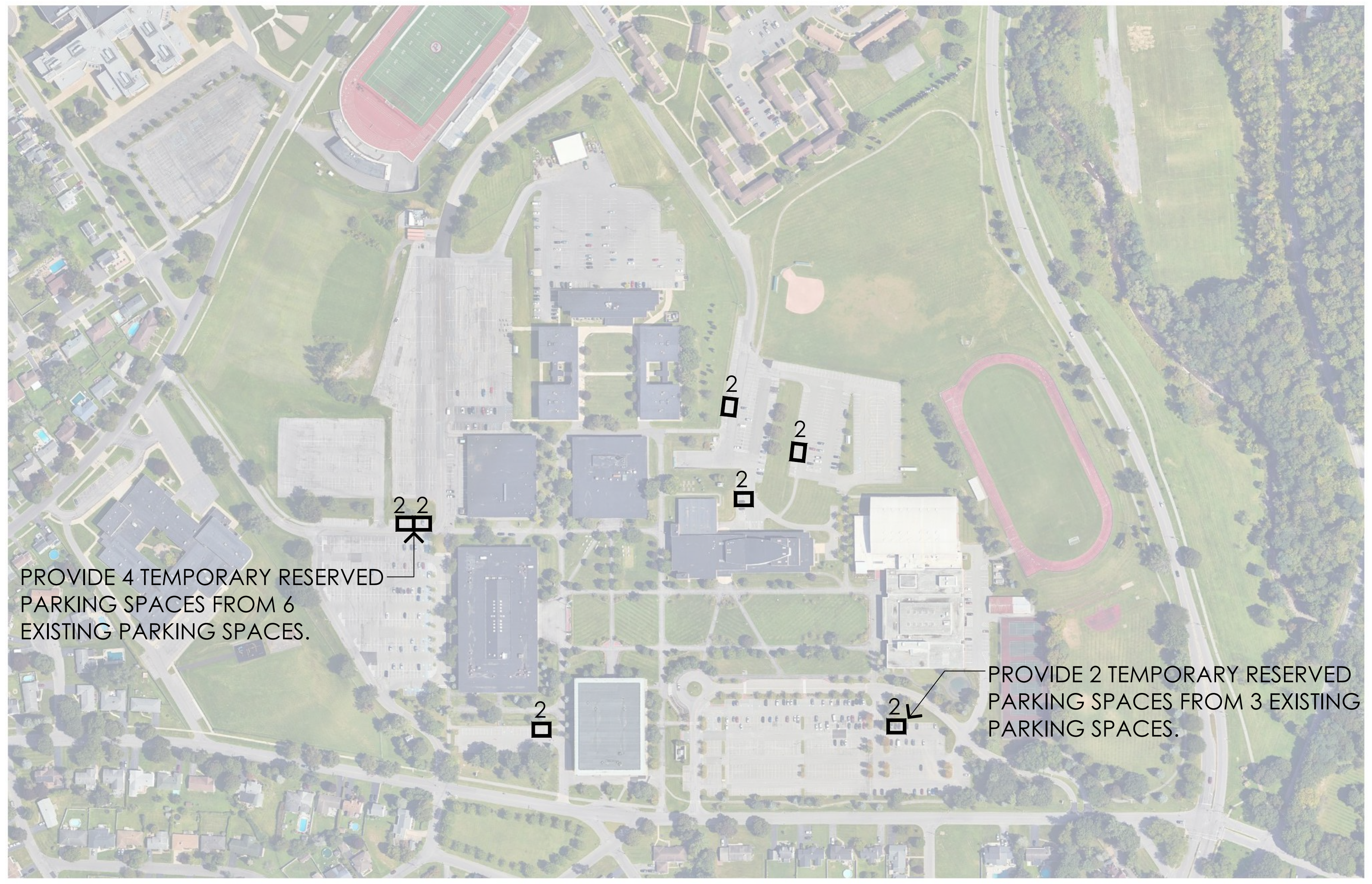
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COMCHECK INSPECTION CHECKLISTS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE:

EN-102



PROVIDE 4 TEMPORARY RESERVED PARKING SPACES FROM 6 EXISTING PARKING SPACES.

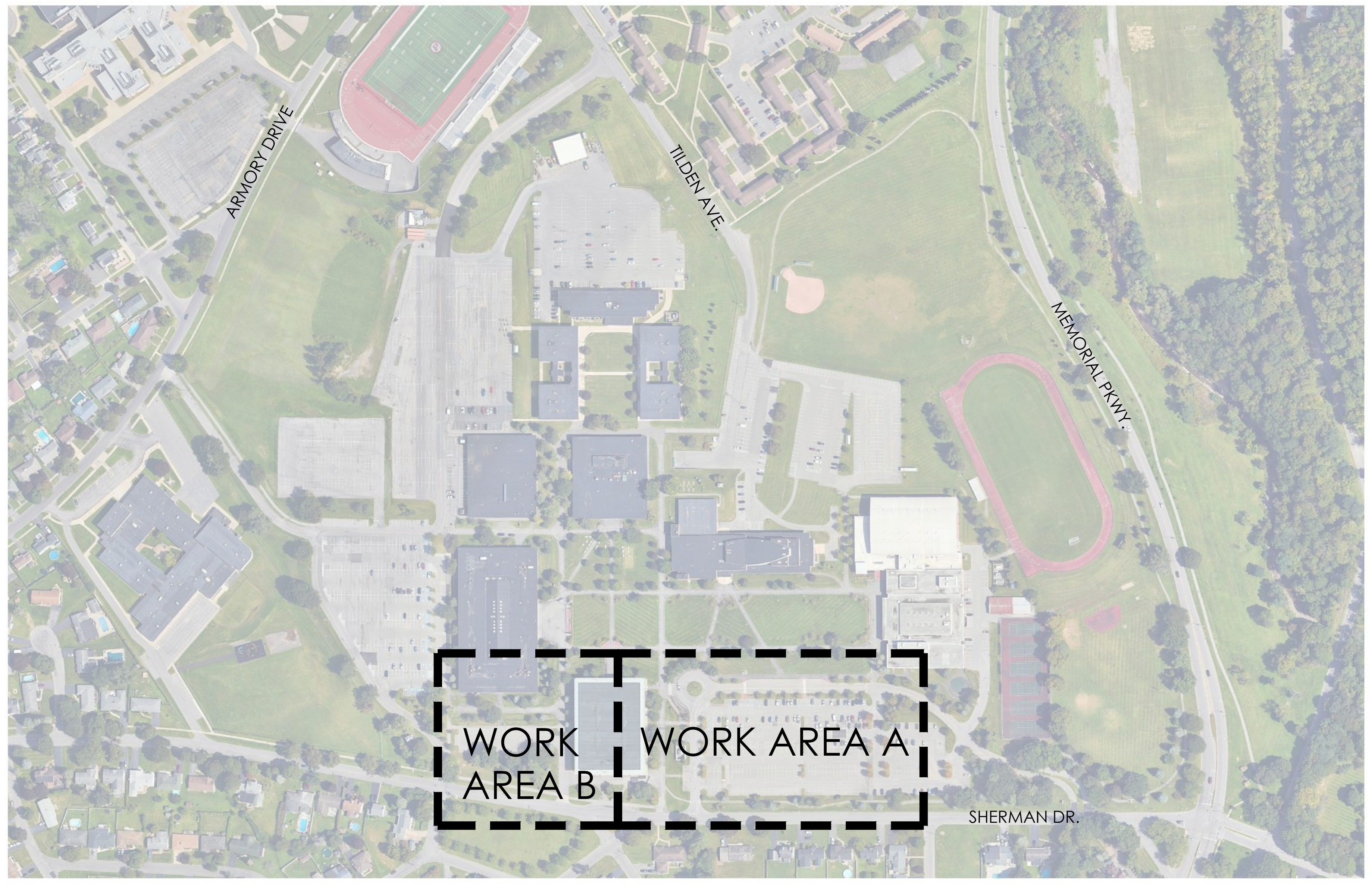
PROVIDE 2 TEMPORARY RESERVED PARKING SPACES FROM 3 EXISTING PARKING SPACES.

TEMPORARY RESERVED PARKING SPACES

0 100 200 400 600

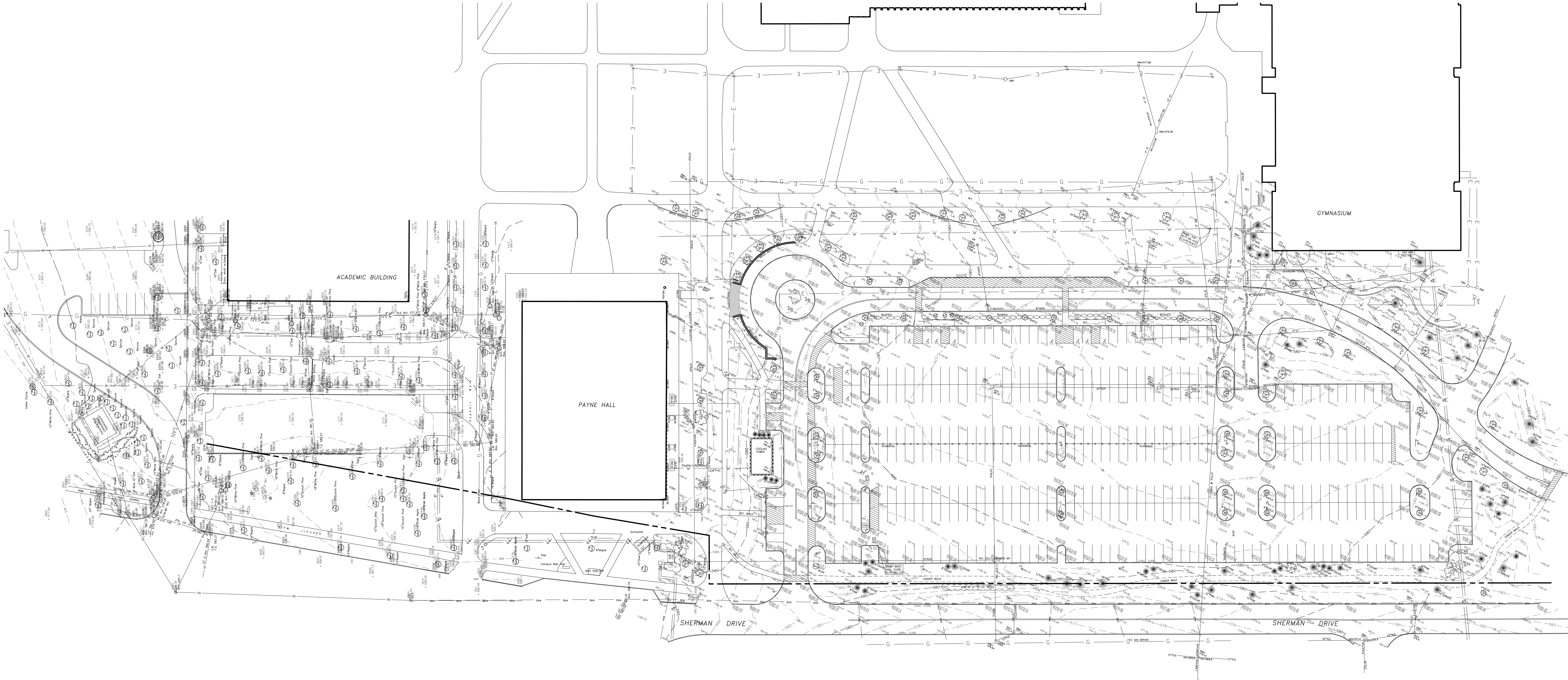
NOTES

- PROVIDE 14 TEMPORARY RESERVED PARKING SPACES IN EXISTING PARKING AREAS AS SHOWN.
- FIELD VERIFY ALL UNDERGROUND UTILITIES BEFORE INSTALLING SIGN POSTS.
- FINAL LOCATIONS TO BE APPROVED BY OWNER.


ARMORY DRIVE
TILDEN AVE.
MEMORIAL PKWY
WORK AREA B
WORK AREA A
SHERMAN DR.

CAMPUS MAP

0 100 200 400 600


ACADEMIC BUILDING
PAYNE HALL
GYMNASIUM
SHERMAN DRIVE
SHERMAN DRIVE

MVCC - SITE SURVEY

0 15 30 60 90
SCALE IN FEET

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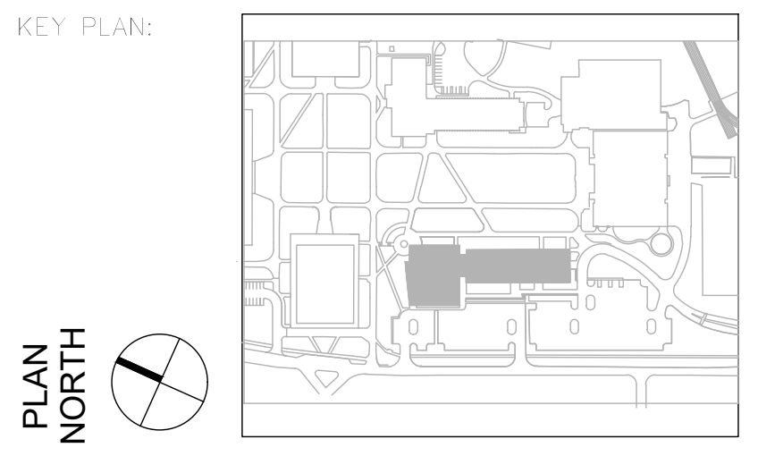
VINCENT PAUL PIETRZAK
001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

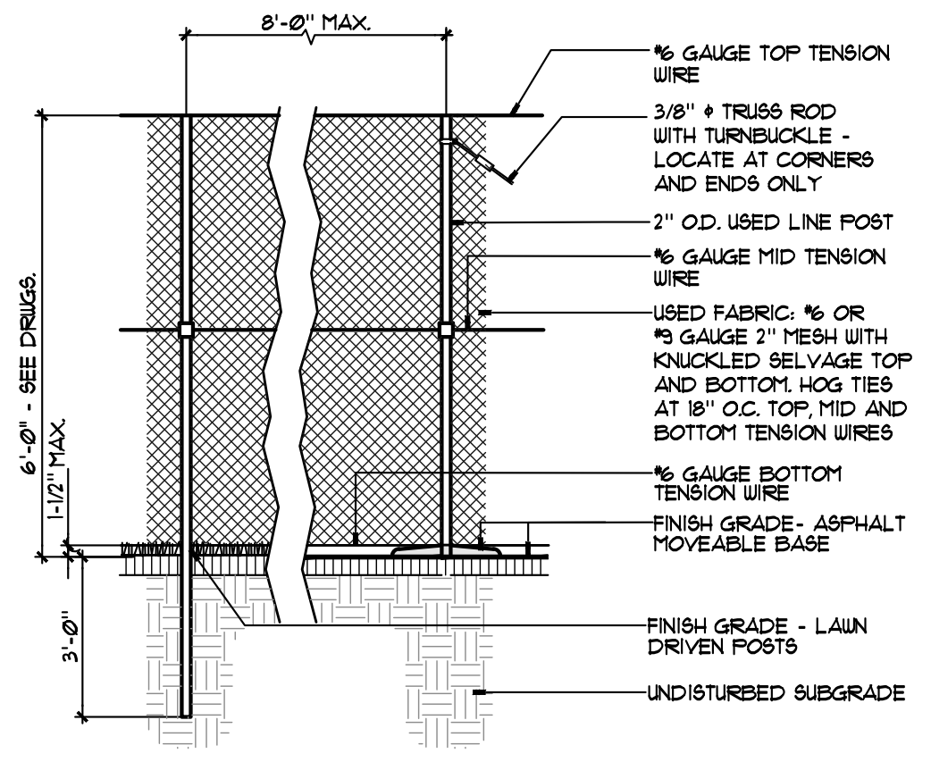
S & T BUILDING
REPLACEMENT

DRAWING TITLE:

SITE SURVEY

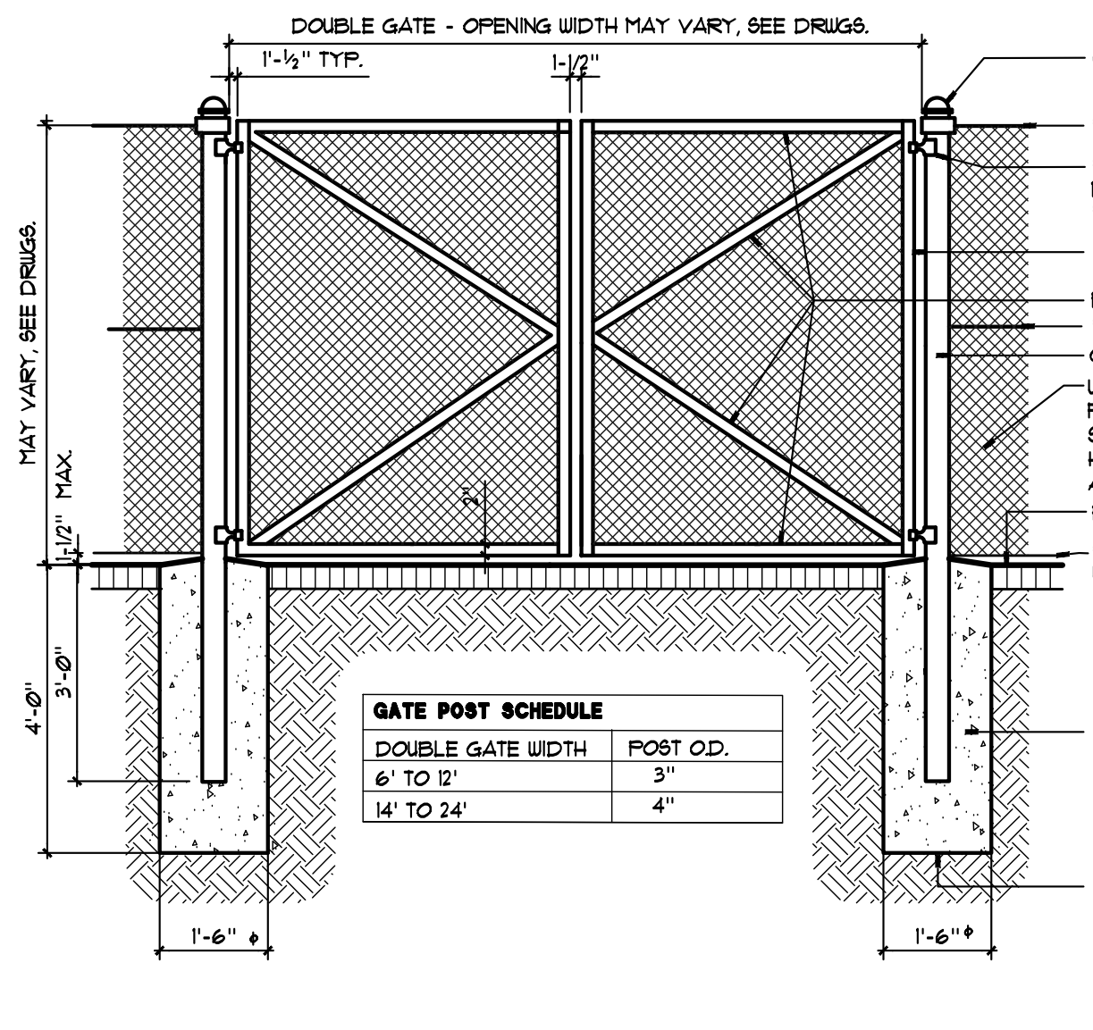
PROJECT NO: 23000	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

C-100


8'-0" MAX.
6'-0" - SEE DRWGS.
1-1/2" MAX.
3'-0"
#6 GAUGE TOP TENSION WIRE
3/8" ϕ TRUSS ROD WITH TURNBUCKLE - LOCATE AT CORNERS AND ENDS ONLY
2" O.D. USED LINE POST
#6 GAUGE MID TENSION WIRE
USED FABRIC: #6 OR #9 GAUGE 2" MESH WITH KNUCKLED SELVAGE TOP AND BOTTOM. HOG TIES AT 18" O.C. TOP, MID AND BOTTOM TENSION WIRES
#6 GAUGE BOTTOM TENSION WIRE
FINISH GRADE- ASPHALT MOVEABLE BASE
FINISH GRADE - LAWN DRIVEN POSTS
UNDISTURBED SUBGRADE

NOTE: CONTRACTOR TO USE MOVEABLE BASES (STANCHION) ALONG CURB EDGE ON PAVEMENT AND DRIVE IN POSTS IN LAWN AREA.

7 C101 TEMPORARY CONSTRUCTION FENCE
SECTION • NOT TO SCALE 275-001B
© APPEL OSBORNE LANDSCAPE ARCHITECTURE


DOUBLE GATE - OPENING WIDTH MAY VARY, SEE DRWGS.
1'-½" TYP.
1-1/2"
MAY VARY, SEE DRWGS.
1-1/2" MAX.
3'-0"
4'-0"
1'-6" ϕ
1'-6" ϕ
CAP
#6 GAUGE TOP TENSION WIRE
POST HINGE PER MANUFACTURER RECOMMENDATIONS
GATE FRAME -2 1/2" O.D
RAILS 2" O.D.
#6 GAUGE MID TENSION WIRE
GATE POST (USED)
USED #6 OR #9 GAUGE 2" MESH FABRIC WITH KNUCKLED SALVAGES TOP AND BOTTOM. HOG TIES AT 18" O.C. TOP, MID, AND BOTTOM TENSION WIRES
FINISH GRADE
#6 GAUGE BOTTOM TENSION WIRE, TYP.
4,000 PSI CONCRETE FOOTING WITH DOME TOP - TYP.
UNDISTURBED SUBGRADE

GATE POST SCHEDULE	
DOUBLE GATE WIDTH	POST O.D.
6' TO 12'	3"
14' TO 24'	4"

8 C101 TEMP. CONSTRUCTION FENCE GATE- DOUBLE WIDTH
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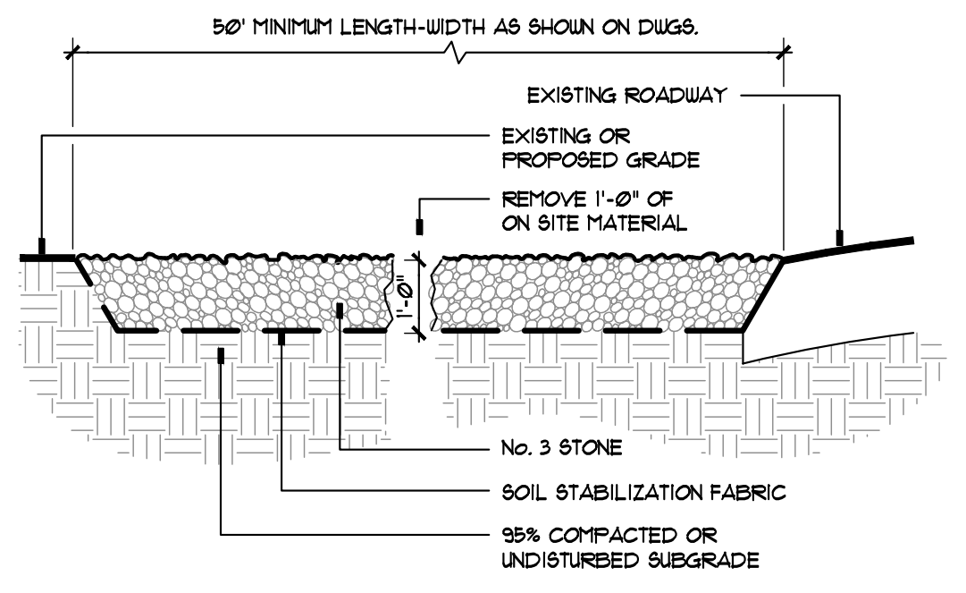
50' MINIMUM LENGTH-WIDTH AS SHOWN ON DWGS.
EXISTING ROADWAY
EXISTING OR PROPOSED GRADE
REMOVE 1'-0" OF ON SITE MATERIAL
1'-0"
No. 3 STONE
SOIL STABILIZATION FABRIC
95% COMPACTED OR UNDISTURBED SUBGRADE

6 C101 OFFSITE SEDIMENT TRACKING CONTROL TYPE 1
SECTION • NOT TO SCALE 3125-012
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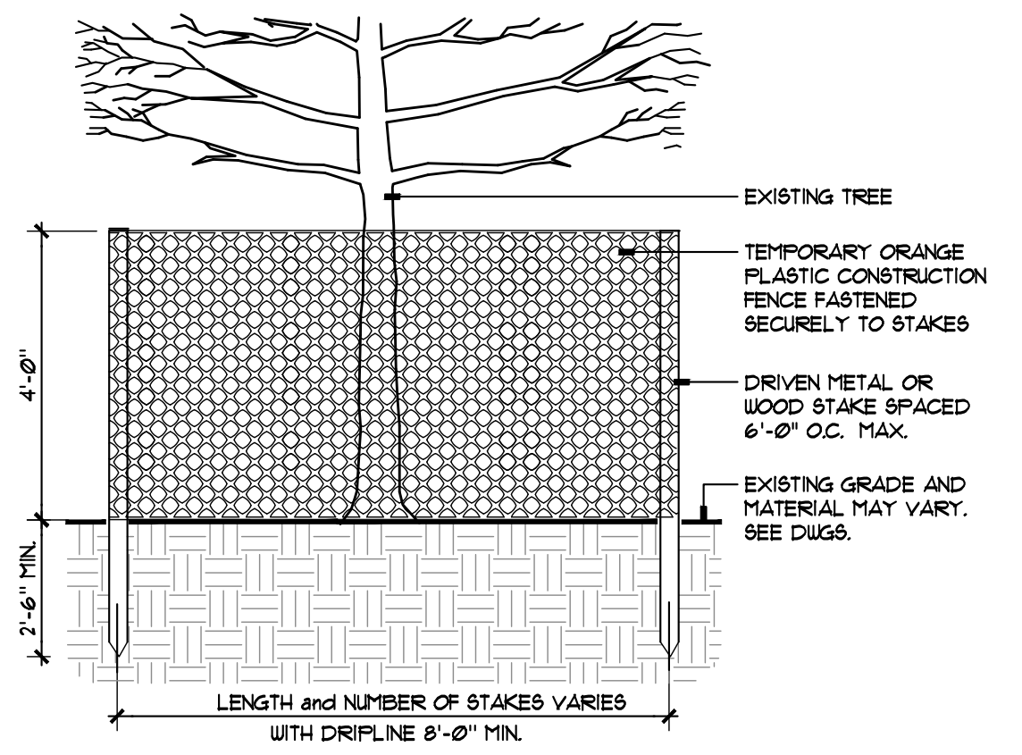
EXISTING TREE
TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE FASTENED SECURELY TO STAKES
DRIVEN METAL OR WOOD STAKE SPACED 6'-0" O.C. MAX.
EXISTING GRADE AND MATERIAL MAY VARY. SEE DWGS.
4'-0"
2'-6" MIN.
LENGTH and NUMBER OF STAKES VARIES WITH DRIPLINE 8'-0" MIN.

NOTES:

1. PLACE TREE GUARD AT DRIP LINE OF TREE (END OF BRANCHES) MIN. 4' FROM ¢ OF TRUNK.
2. MEDIUM/LARGE TREES - CONSTRUCT AS POLYGON AROUND DRIP LINE.
3. SMALL TREES - CONSTRUCT AS SQUARE AROUND DRIP LINE, OR MIN. 4' FROM ¢ OF TRUNK, WHICHEVER IS GREATER.

5 C101 TEMPORARY TREE PROTECTION - FENCE
SECTION • NOT TO SCALE 3125-027A
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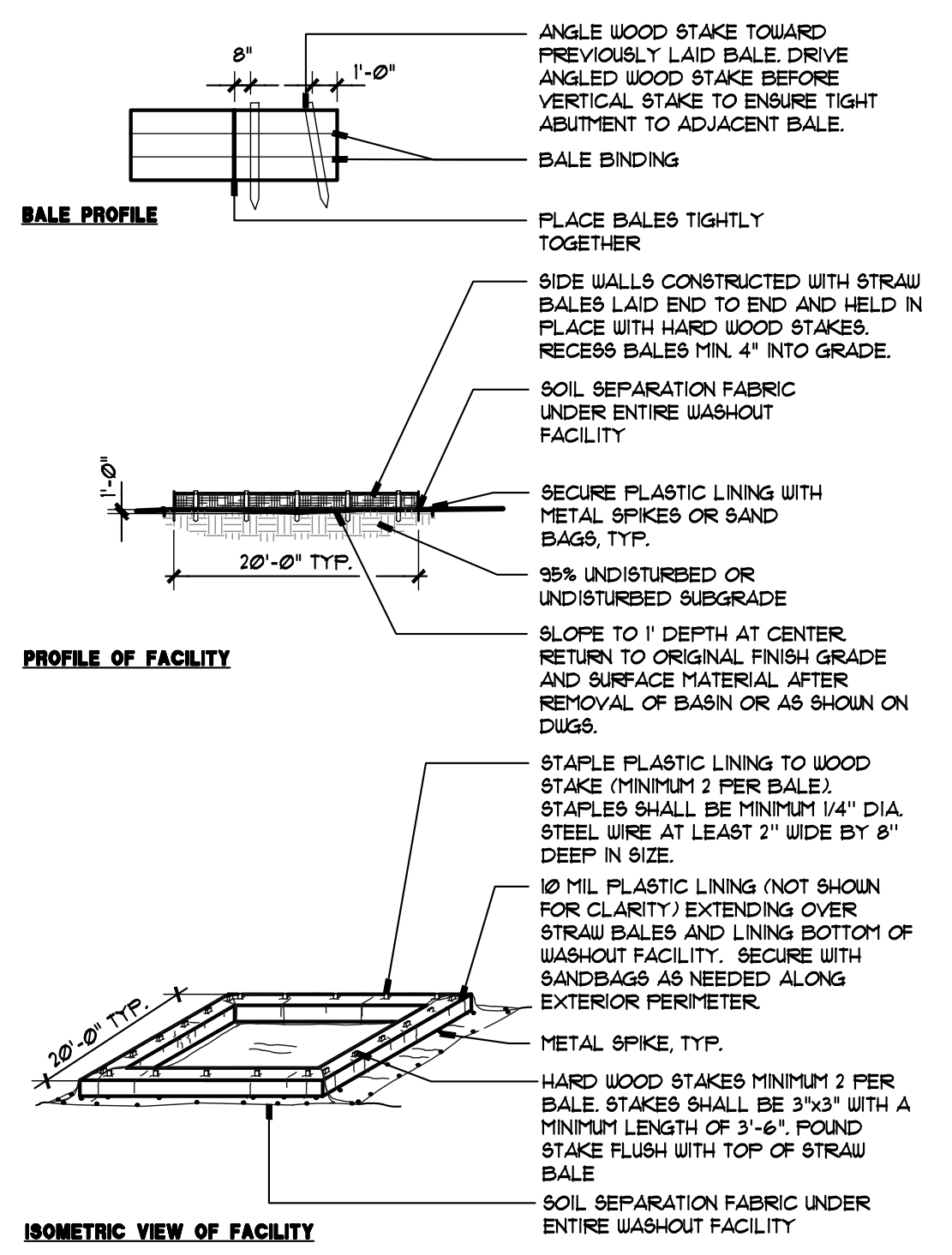
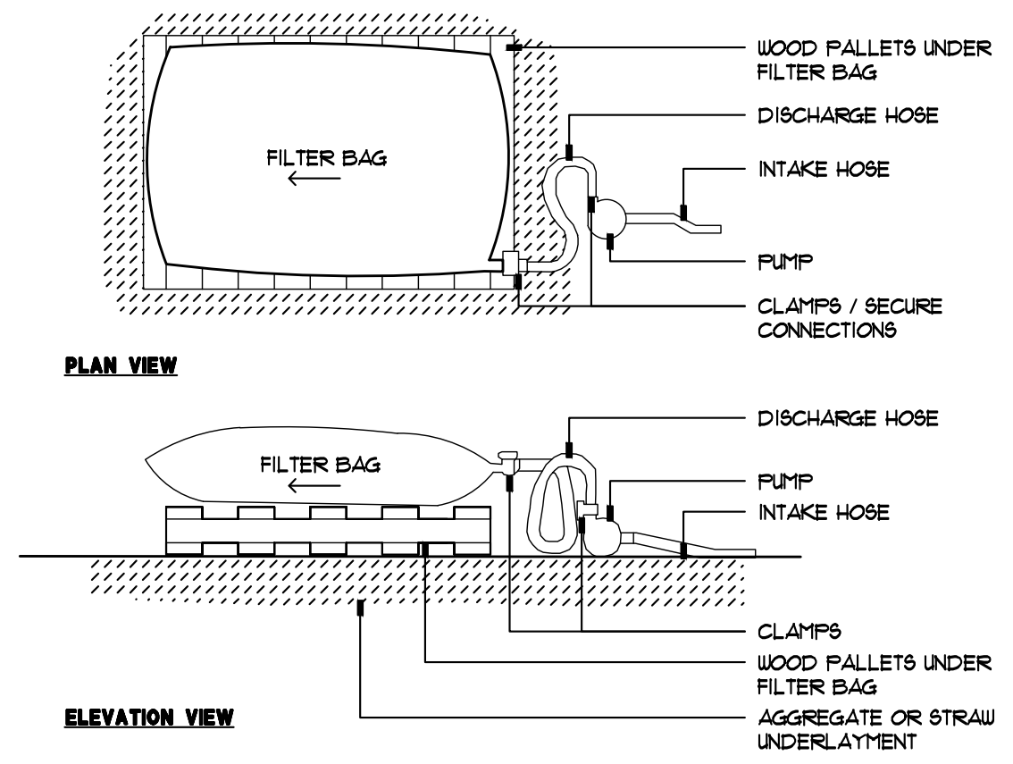

8"
1'-0"
BALE PROFILE
ANGLE WOOD STAKE TOWARD PREVIOUSLY LAID BALE. DRIVE ANGLED WOOD STAKE BEFORE VERTICAL STAKE TO ENSURE TIGHT ABUTMENT TO ADJACENT BALE.
BALE BINDING
PLACE BALES TIGHTLY TOGETHER
SIDE WALLS CONSTRUCTED WITH STRAW BALES LAID END TO END AND HELD IN PLACE WITH HARD WOOD STAKES. RECESS BALES MIN. 4" INTO GRADE.
SOIL SEPARATION FABRIC UNDER ENTIRE WASHOUT FACILITY
SECURE PLASTIC LINING WITH METAL SPIKES OR SAND BAGS, TYP.
95% UNDISTURBED OR UNDISTURBED SUBGRADE
SLOPE TO 1' DEPTH AT CENTER RETURN TO ORIGINAL FINISH GRADE AND SURFACE MATERIAL AFTER REMOVAL OF BASIN OR AS SHOWN ON DWGS.
1'-0"
20'-0" TYP.
PROFILE OF FACILITY
STAPLE PLASTIC LINING TO WOOD STAKE (MINIMUM 2 PER BALE). STAPLES SHALL BE MINIMUM 1/4" DIA. STEEL WIRE AT LEAST 2" WIDE BY 8" DEEP IN SIZE.
10 MIL PLASTIC LINING (NOT SHOWN FOR CLARITY) EXTENDING OVER STRAW BALES AND LINING BOTTOM OF WASHOUT FACILITY. SECURE WITH SANDBAGS AS NEEDED ALONG EXTERIOR PERIMETER.
METAL SPIKE, TYP.
HARD WOOD STAKES MINIMUM 2 PER BALE. STAKES SHALL BE 3"x3" WITH A MINIMUM LENGTH OF 3'-6". POUND STAKE FLUSH WITH TOP OF STRAW BALE
SOIL SEPARATION FABRIC UNDER ENTIRE WASHOUT FACILITY
20'-0" TYP.
ISOMETRIC VIEW OF FACILITY

4 C101 TEMPORARY CONCRETE WASHOUT FACILITY - CWF
SECTION • NOT TO SCALE 3125-016
© APPEL OSBORNE LANDSCAPE ARCHITECTURE


FILTER BAG
WOOD PALLETS UNDER FILTER BAG
DISCHARGE HOSE
INTAKE HOSE
PUMP
CLAMPS / SECURE CONNECTIONS
PLAN VIEW
FILTER BAG
DISCHARGE HOSE
PUMP
INTAKE HOSE
CLAMPS
WOOD PALLETS UNDER FILTER BAG
AGGREGATE OR STRAW UNDERLAYMENT
ELEVATION VIEW

NOTE: INSTALL AS NEEDED AND WHERE NEEDED FOR DEWATERING PURPOSES.

3 C101 TEMP. SEDIMENT FILTER BAG FOR PUMPED WATER
SECTION • NOT TO SCALE 3125-018
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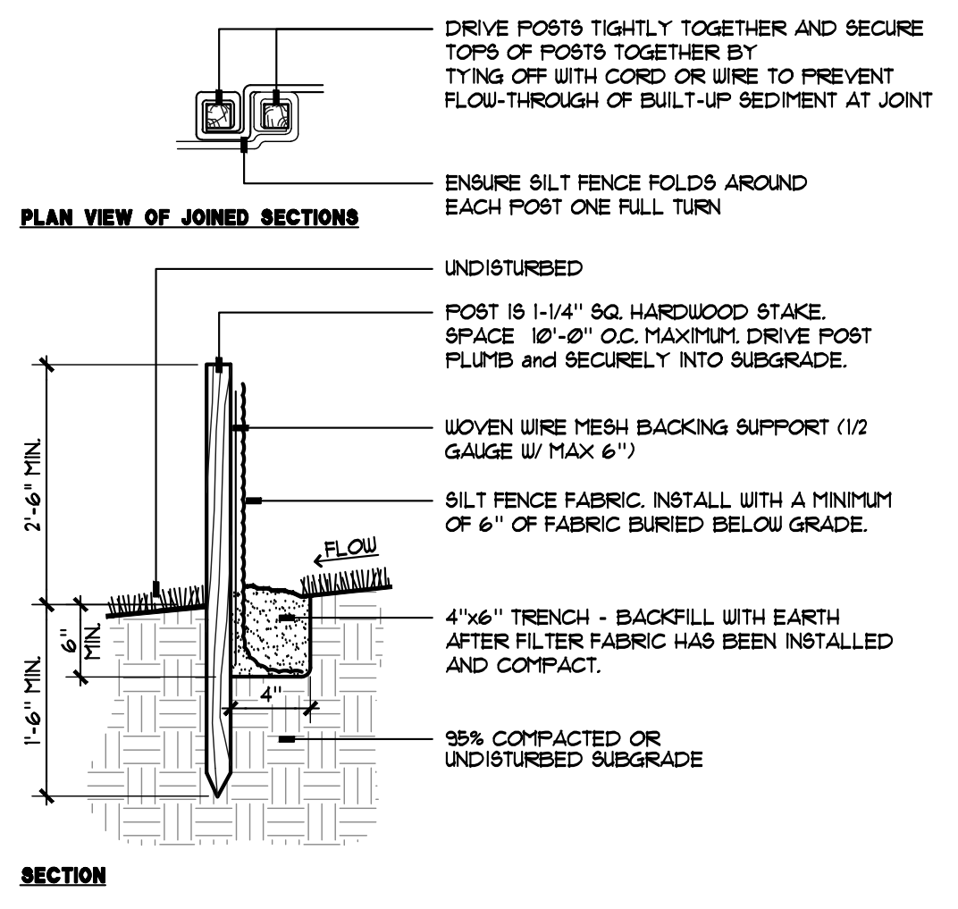
DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS TOGETHER BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF BUILT-UP SEDIMENT AT JOINT
ENSURE SILT FENCE FOLDS AROUND EACH POST ONE FULL TURN
PLAN VIEW OF JOINED SECTIONS
UNDISTURBED
POST IS 1-1/4" SQ. HARDWOOD STAKE. SPACE 10'-0" O.C. MAXIMUM. DRIVE POST PLUMB and SECURELY INTO SUBGRADE.
WOVEN WIRE MESH BACKING SUPPORT (1/2 GAUGE W/ MAX 6")
SILT FENCE FABRIC. INSTALL WITH A MINIMUM OF 6" OF FABRIC BURIED BELOW GRADE.
FLOW
4"x6" TRENCH - BACKFILL WITH EARTH AFTER FILTER FABRIC HAS BEEN INSTALLED AND COMPACT.
95% COMPACTED OR UNDISTURBED SUBGRADE
2'-6" MIN.
6" MIN.
1'-6" MIN.
4"
SECTION

2 C101 SILT FENCE = SF
SECTION • NOT TO SCALE 3125-004
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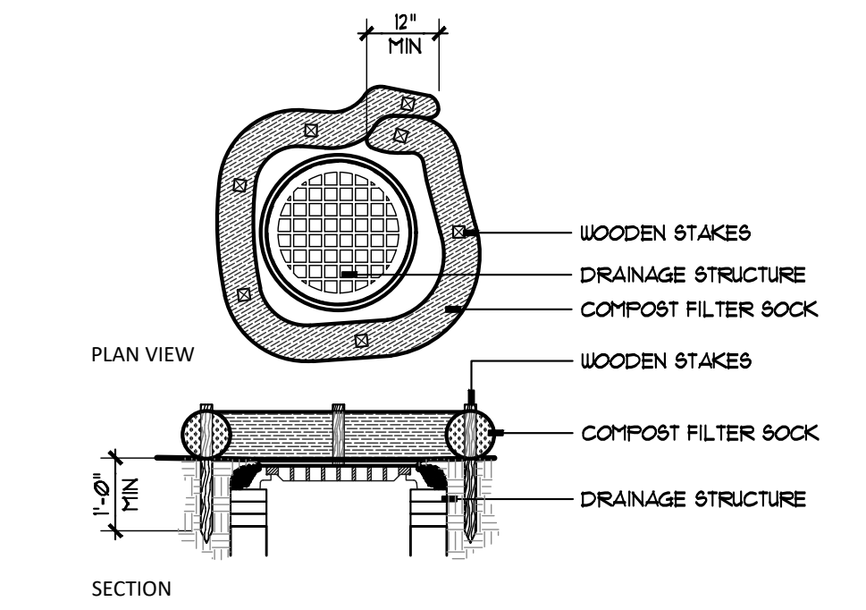
12" MIN
WOODEN STAKES
DRAINAGE STRUCTURE
COMPOST FILTER SOCK
PLAN VIEW
WOODEN STAKES
COMPOST FILTER SOCK
DRAINAGE STRUCTURE
1'-0" MIN
SECTION

NOTES:

1. WHEN PLACED IN PAVED AREAS, USE CONCRETE BLOCKS OR SANDBAGS TO ANCHOR THE FILTER SOCK IN LIEU OF STAKES.

1 C101 STORM STRUCTURE PROTECTION
SECTION • NOT TO SCALE 3125-001
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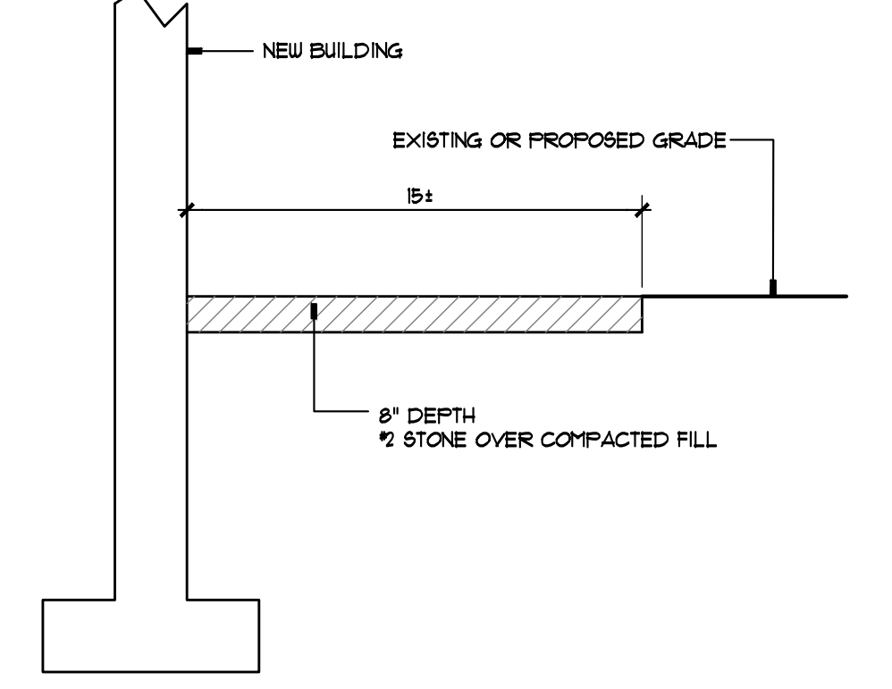
NEW BUILDING
EXISTING OR PROPOSED GRADE
15±
8" DEPTH
#2 STONE OVER COMPACTED FILL

9 C101 TEMPORARY CONSTRUCTION MATTE
SECTION • NOT TO SCALE CONSTRUCTION MATTE
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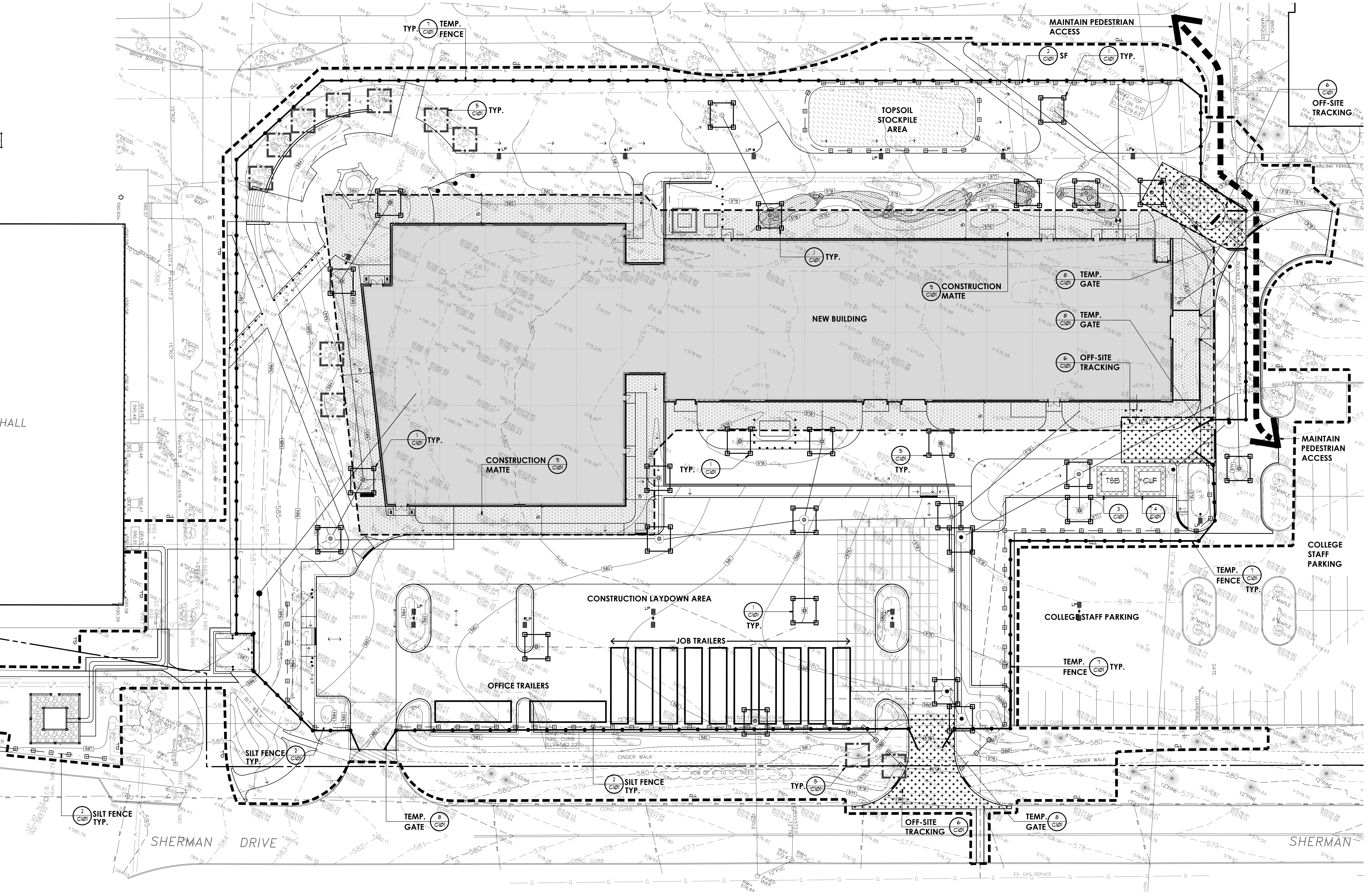
SWPPP LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— — — —	EXISTING CONTOUR	TSB	TEMPORARY SEDIMENT BASIN
———	PROPOSED CONTOUR		
⊞—SF—⊞	SILT FENCE		
▭	OFF SITE TRACKING CONTROL CONSTRUCTION ENTRY/EXIT		TREE PROTECTION
⊞	TEMPORARY FABRIC INLET PROTECTION	▬ ▬ ▬ ▬	TEMPORARY CONSTRUCTION FENCE
CWF	CONCRETE WASHOUT FACILITY	⊞	TOPSOIL STOCKPILE AREA
		▨	CONSTRUCTION MATTE


PAYNE HALL
NEW BUILDING
TOPSOIL STOCKPILE AREA
MAINTAIN PEDESTRIAN ACCESS
OFF-SITE TRACKING
TYP.
TEMP. FENCE
SF
CONSTRUCTION MATTE
TEMP. GATE
TEMP. GATE
OFF-SITE TRACKING
MAINTAIN PEDESTRIAN ACCESS
TSB
CWF
COLLEGE STAFF PARKING
CONSTRUCTION LAYDOWN AREA
JOB TRAILERS
OFFICE TRAILERS
COLLEGE STAFF PARKING
TEMP. FENCE
SILT FENCE TYP.
SILT FENCE TYP.
SILT FENCE TYP.
TEMP. GATE
OFF-SITE TRACKING
TEMP. GATE
SHERMAN DRIVE
SHERMAN
BUS SHELTER
Sign
Campus Map Sign
REFER TO SHEET C-111 FOR CONTINUATION OF SITE WORK

MVCC - STORM WATER POLLUTION PREVENTION PLAN

WORK AREA A

0 10 20 40 60
SCALE IN FEET

ONEIDA COUNTY NEW YORK 1798

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

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ARCHITECTS & PLANNERS, PC
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315 339 7855

MEP ENGINEER:
Towne Engineering
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Utica, NY 13501
315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
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Syracuse, NY 13204
315 476 1022

SEAL:
VINCENT PAUL PIETRZAK 001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:
PLAN NORTH

PROJECT:
S & T BUILDING REPLACEMENT

DRAWING TITLE:
STORM WATER POLLUTION PREVENTION PLAN

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-101

STORMWATER POLLUTION PREVENTION PLAN NOTES

1. REGULATORY INFORMATION

This Stormwater Pollution Prevention Plan (SWPPP) is prepared to instruct personnel on mitigation measures to prevent pollutants in stormwater runoff from entering the waters of the United States. The following sections discuss and describe actions to be taken as part of the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities, Permit No. GP-0-20-001.

Appel Osborne Landscape Architecture (AOLA) has prepared this SWPPP on behalf of Oneida County Department of Public Works (OCDPW) and Mohawk Valley Community College (MVCC). The Engineer and the contractor(s) report to MVCC.

According to the SPDES General Permit for Stormwater Discharges from Construction Activities, projects involving installation of underground, linear utilities, demolition where no re-development is planned, and environmental enhancement projects such as stormwater retrofits, require the preparation of a SWPPP that only includes Erosion and Sediment Controls.

This SWPPP will include the overall development of the site, including the new Science and Technolgy Building, sitework, access drives, utilities, and landscaping.

2. SWPPP DEVELOPMENT, REVIEW AND UPDATE

2.1 SWPPP DEVELOPMENT

This SWPPP was developed in accordance with Permit No. GP-0-20-001 and accepted engineering practices.

2.2 SWPPP REVIEW

For construction activities that are subject to the requirements of a regulated, traditional land use control Municipal Separate Storm Sewer System (MS4), stormwater will be authorized to discharge from the project construction site after the New York State Department of Environmental Conservation (NYSDEC) receives a complete NOI and signed MS4 SWPPP Acceptance form.

- Five business days from the date the NYSDEC receives both a complete electronic version of the NOI (eNOI) and signed MS4 SWPPP Acceptance form, the NYSDEC will issue approval for construction activities on site.

The SWPPP will be kept current, and made available at the site for review by regulatory agencies, the Engineer, and contractors. Applicable Federal, State, and local regulatory agencies that have jurisdiction may elect to review this SWPPP and if necessary, may notify MVCC that the SWPPP requires modification or that certain site conditions do not meet the requirements of the regulations.

The SWPPP and NOI will also be made available for review by the public. OCDPW shall produce copies of the SWPPP and/or NOI for public individuals who submit a written request. The requester is responsible for copying costs.

2.3 SWPPP UPDATE

MVCC, the Engineer, or the contractors shall amend this SWPPP in the event there is a change in any of the following project components that have an effect on the potential for discharge of pollutants from stormwater runoff associated with construction activities:

- Design / Construction
  - In the event field conditions render the erosion and sediment control measures to be ineffective in minimizing sediment transport from stormwater discharges
  - Identification of new contractors that will implement or construct the stormwater management and/or erosion and sediment control facilities
  - Changed site conditions observed by OCDPW the Engineer or the contractors
- Operations / Maintenance

Should the SWPPP need to be revised based on changed site conditions observed by the Engineer and/or the Contractor, it shall be the responsibility of OCDPW to revise the SWPPP within seven days. If the changed site conditions are a result of work by a contractor, it shall be the contractor's responsibility to revise the SWPPP within seven days of notification from OCDPW and implement new SWPPP requirements at the contractor's own cost. All modifications shall be reviewed, approved and accepted by the Engineer prior to implementation.

The superseded SWPPP shall be marked as such and revision dates placed on the updated SWPPP and distributed by OCDPW or the contractors to the involved parties (i.e. subcontractors and Engineer).

3. SITE DESCRIPTION

3.1 PROJECT DESCRIPTION

The New Science and Technology Building is part of the Mohawk Valley Community College Campus in the City of Utica, approximately 94.19 acres. The portion of the project this SWPPP pertains to is a 3.96 acre parcel which includes the following work: 2 story, 61,945 GSF Classroom Building requiring excavation, utility connections, access drives, lawns and landscape improvements. The project site will displace an existing parking area. Cooling tower replacement, approximately 767 GSF and salt storage building, approximately 400 GSF.

3.2 SITE LOCATION AND OWNER/OPERATOR CONTACT INFORMATION

The project site is located in the City of Utica in Oneida County. The adjacent properties are primarily residential. The name and address of the Owner/Operator, including contact person and telephone number is:

OWNER:
Oneida County DPW
5999 Judd Road
Oriskany, NY 13424
P. 315-793-6213
F. 315-768-1122

CONTACT:
Matthew Baisley, Commissioner of Public Works
Phone: 315-768-6299
Email: mbaisley@ocgov.net

3.3 CONTRACT DOCUMENTS

The Contract Documents prepared by AOLA include Construction Drawings, this SWPPP, and Technical Specifications for site construction. The Contract Documents for building demolitions and geotechnical soil improvements are prepared by others. The documents provide the following information:

- Existing site features including the existing topographic contour elevations, known existing utilities, existing roadways, parking and landscape.
- Proposed site actions including earthwork, utility trenching and re-routing pavement removal, temporary contractor staging area, and temporary site access locations.
- Proposed location and type of stabilization and erosion and sediment control facilities to be implemented: silt fence, inlet protection, concrete washout facilities, temporary off-site tracking control, temporary seeding, straw matt and dust collector.
- Notes and details providing information on improvements proposed to be installed under this project.
- Extents of the SWPPP include Sherman Drive, college driveways, parking lots, walkways adjacent to the project site.
- Maintain Sherman Drive and surrounding neighborhood(s) free of dust and off-site tracking.

3.4 RECEIVING WATER

Stormwater flows from the site and new parking garage building draining to new existing storm water campus infrastructure to the memorial parkway R.o.w., which outlets to the starch factory creek, (a tributary of the Mohawk River).

3.5 SOILS

Soils data taken from the Natural Resource Conservation Service Web Soil Survey indicates that the soils in the project area are classified as all Urban Land. The soil is classified as 100% hydrologic group "D".

4. PROJECT IMPLEMENTATION AND CONSTRUCTION SEQUENCE

4.1 PRE-CONSTRUCTION REQUIREMENTS

The Owner/Operator and the Contractors shall follow the requirements described in Section 312501 - Erosion Control in the Project Manual prior to the commencement of any construction activities.

4.2 PROJECT REQUIREMENTS DURING CONSTRUCTION

The limits of disturbance for this project will be less than 5 acres. In the likely event that there will be disturbance of more than 5 acres at any one time, the following additional requirements are to be completed in advance of the actual disturbance:

- A written request is required and would be sent by OCDPW to the Regional NYSDEC office for an MS4
- Each written request shall include the following:
  - The increased disturbance limit.
  - The amount of area intended to be disturbed.
  - An explanation of why more than five acres needs to be disturbed.
  - Identification of any additional erosion and sediment control measures that will be implemented to mitigate the increased area of disturbance.
  - Acknowledgement that a "qualified inspector" will conduct at least two site inspections in accordance with Part IV.C of the NYSDEC GP-0-20-001 every seven calendar days as long as over five acres of soil remain disturbed. The two inspections shall be separated by a minimum of two full calendar days.
  - Acknowledgement that temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven days from the date soil disturbance activity has ceased. The soil stabilization measures shall be in conformance with the most current version of the New York State Standards and Specifications for Erosion and Sediment Control.
  - A phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
  - Acknowledgement that the Owner/Operator shall install additional site-specific practices needed to protect water quality.
  - If the increased amount of disturbance requires water quality controls, the written request shall identify which practices are proposed.
  - Updated SWPPP documents (as an attachment) identifying additional erosion and sediment control measures that will be implemented.

4.3 CONSTRUCTION SEQUENCE

The Contractors shall install erosion and sediment control practices, prior to upstream disturbance, to eliminate sediment transport to offsite areas. Unless specific approval has been obtained from the NYSDEC, the Contractors shall only disturb up to five acres at one time, which may require phasing of the construction to stabilize completed areas prior to disturbing additional areas. The general construction sequence is as follows:

- Install signs and traffic maintenance measures to ensure vehicles use a detour route around the project area.
- Install silt fencing
- Install storm drain inlet filters to existing inlets
- Install temporary construction access pavement and contractors' staging area
- Mill and/or remove existing roadway pavement, sidewalks or surfaces as indicated on Contract Drawings, removing material from site as appropriate
- Excavate utility trenches, stabilize trenches using temporary shoring, and demolish existing utilities, as displayed on Contract Drawings
- Install new and diverted utilities, including future connections, as displayed on Contract Drawings
- Remove temporary shoring, and fill and compact soil within trenches surrounding utilities
- Install building foundations / construct the new building.
- Install new pavements, curbs, walks and site features as indicated on the Contract Drawings.
- Connect building roof leaders / downspouts to drainage infrastructure.
- Restore and stabilize lawn areas. Install straw matte stabilization on slopes steeper than 1:3.
- After the construction period and final stabilization of the site, remove temporary erosion and sediment control measures
- Install final landscaping, including sod lawn, trees, shrubs and mulch.
- During periods of non-work (e.g., winter shut-down, if applicable), the site shall be temporarily stabilized in accordance with the NYSDEC GP-0-15-002.

4.4 INSPECTION DURING CONSTRUCTION

General

OCDPW will provide a "qualified inspector" to inspect the proposed erosion and sediment control measures and disturbed areas of the construction site for compliance with the SWPPP. The qualified inspector shall evaluate whether site-generated sediment is entering natural surface water bodies located within, or immediately adjacent to, the site boundaries. Digital photographs, with date stamp, shall be taken that show the condition of erosion and sediment control facilities and stormwater management practices that have been identified as needing corrective actions. Additional photographs shall be taken showing the condition of the facilities and practices after corrective actions have been performed. These photographs shall be attached to the inspection form within seven calendar days of the respective inspection.

These inspections are to be completed at least once every seven calendar days. There shall be a minimum of two full calendar days between inspections.

Prior to construction, the Contractors and subcontractors are to identify at least one "trained contractor" from respective company that will be responsible for the implementation of the SWPPP and the inspection of the erosion and sediment controls in accordance with the New York Standards and Specifications for Erosion & Sediment Control. OCDPW shall ensure that at least one trained contractor is on-site on a daily basis when soil disturbance activities are being performed.

If corrective action is required based on the results of inspection, the contractors will begin implementing the corrective action within one business day and complete it within seven calendar days following the date of the inspection. Additional mitigation measures are to be implemented by the contractors if warranted to minimize sediment transport or discharge of sediment laden runoff off-site. Each inspection report is to remain on file at the project site as part of the SWPPP.

Construction Shutdown

When soil disturbing activities have been temporarily suspended and temporary stabilization measures have been applied to all disturbed areas, OCDPW may reduce inspections to a minimum of one inspection every 30 calendar days. OCDPW shall notify the NYSDEC in writing prior to reducing the frequency of inspections. OCDPW shall resume inspections in accordance with this section as soon as soil disturbance activities resume.

Final Site Inspection

The qualified inspector shall perform a final inspection of the site to certify that:

- Construction is complete and disturbed areas have been stabilized, and;
- Temporary erosion and sediment control facilities have been removed.
- Dust control mitigation / procedures are acceptable to the owner.

Upon satisfactory completion of the final site inspection, the qualified inspector is required to sign the appropriate sections of the Notice of Termination (NOT) form and submit to OCDPW.

4.5 POST-CONSTRUCTION MAINTENANCE REQUIREMENTS

Once the project site is permanently stabilized, a Notice of Termination (NOT) shall be filed with the NYSDEC. The NOT requires certification from the inspector that the site has been stabilized. There is a permanent stormwater management facilities proposed for this project, and therefore there are post-construction maintenance requirements, (Downstream Defender Stormwater Separator) .

5. STORMWATER CONTROLS

The Construction Drawings illustrate anticipated locations for the erosion and sediment control facilities. These facilities are to be installed and maintained in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2005), the Construction Drawings, and the manufacturer's instructions.

5.1 EROSION AND SEDIMENT CONSTROLS - STRUCTURAL PRACTICES

Proposed erosion and sediment control measures were designed in accordance with the following documents:

- New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2005).
- NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-20-001, effective date January 2020).

As shown on the Construction Drawings, the site construction activities are both within the roadway rights-of- way, and within the interior of the site. The main potential sources for uncontrolled erosion and sediment are from pavement milling, saw cutting, utility trench excavation, trench backfilling, building and foundation excavation, and geotechnical soil improvements.

The control measures and best management practices (BMPs) noted below are to be implemented to mitigate and control potential pollutants and sediment transport in stormwater discharges from the construction site.

- Staging/laydown areas for vehicles and construction equipment are to be located on stabilized portions of the site. If needed, vehicles and equipment are to be washed down in stabilized areas prior to exiting the site.
- Storm drain inlet protection is to be installed around existing catch basins, as indicated on the Construction Drawings, to capture sediment runoff from the construction activities. Inlets within the right-of-way but outside the extents of construction are to have fabric filters installed if they are downstream of the construction activities, as shown on the Construction Drawings.
- If curbs are to be removed, replaced or repaired and there is potential for stormwater to drain from the roadway onto adjacent property, silt fence shall be installed along the downstream portion of the right-of- way.
- Silt fence shall also be installed surrounding spoil piles and stock piles, if they so exist. Erodible stockpiled materials shall not be placed on impervious surfaces unless covered in plastic or other approved material.

5.2 STABILIZATION PRACTICES

The Contractors shall initiate stabilization measures in accordance with the Contract Documents as soon as practicable. For portions of the site where soil disturbance activities have temporarily or permanently ceased, stabilization measures must be implemented within 14 days of the conclusion of activities, or within seven days if authorized to exceed five acres of disturbance at one time. This requirement does not apply if the installation of stabilization measures is precluded by snow cover or frozen ground conditions; however, measures shall be implemented as soon as practicable.

5.3 ADDITIONAL STORMWATER CONTROLS

The following are additional measures to be implemented by the responsible contractors at the site to minimize pollutant transport.

- Proper precautions are to be taken so that materials do not spill onto private or public thoroughfares. If materials are dropped onto these areas, they are to be swept clear or removed as soon as practicable so that they do not enter surface and subsurface drainage systems.
- Dust control measures shall be provided before dust migrates off site. Measures may include water application or mulching, but shall not include use of chemical additives.
- Solid waste disposal dumpsters and containers are to be covered and emptied regularly. Waste is to be disposed of properly in accordance with local, state, and/or federal regulations.
- Portable toilets are to be installed and cleaned regularly with their contents properly disposed of. Portable toilets shall be located so that they will not be impacted by construction activities.
- Building materials are to be properly stored and contained on site.
- Oil containers are to have appropriate secondary containment. If total oil storage on site exceeds a cumulative total of 1,320-gallons, a spill prevention control and countermeasure (SPCC) plan is to be prepared by the owner of the stored oil. The SPCC shall be maintained on site.

5.4 DEVIATIONS FROM STORMWATER REQUIREMENTS

OCDPW is making no deviations from New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2005). If any deviations were to occur, the contractors would contact OCDPW, changes would be made in the SWPPP, and the NYSDEC would be notified. Per direction from the NYSDEC, specification of this practice provides the NYSDEC a 60-day opportunity to review the SWPPP. The review period starts upon submission of the Notice of Intent document.

6. CONSTRUCTION OPERATIONS & MAINTENANCE

The procedures that are to be utilized to maintain the effectiveness of the erosion and sediment control measures during construction are described in Section 312501 - Erosion Control in the Project Manual.

7. NON-STORMWATER DISCHARGES

Contractors are responsible for controlling non-stormwater discharges. Non-stormwater discharges shall be controlled in the following manner:

- Cleaning construction vehicles and equipment is to be conducted on stabilized stone areas.
- Contractors are responsible for identifying areas on-site for construction vehicle transit (i.e., haul roads, contractor trailers and parking areas, etc.), and equipment staging if not identified on the Construction Drawings.
- Water used for dust control measures is to be applied using proper quantities and equipment. No chemical additives are to be used.

8. SPILL PREVENTION

The Contractors shall contact the NYSDEC Spill Hotline (1-800-457-7362) in the event a material spill occurs on site during construction. The following are material management practices that are to be used by the contractors to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff during construction.

- Materials stored on site with potential for spillage are to be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products are to be kept in their original containers with the original manufacturer's label.
- Substances are not to be mixed with one another unless recommended by the manufacturer.
- Whenever possible, products are to be used in full, or containers resealed before proper disposal of contents and containers off site.
- Manufacturers' recommendations for proper use and disposal are to be followed.
- Inspections are to be made to ensure proper use and disposal of materials.
- On site vehicles are to be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage of petroleum products. Petroleum products are to be stored in closed containers that are clearly labeled. Used oils are to be disposed of properly.
- Materials are to be brought on site in quantities that limit or minimize the amount of on-site storage.
- Paint containers are to be tightly sealed and properly stored when not in use. Excess paint, solvents, etc. shall not be discharged to storm sewer facilities but are to be properly disposed of according to manufacturers' instructions, or State and local regulations.

8.1 SPILL CONTROL PRACTICES

In addition to the material management practices discussed above, the following practices are to be followed by the contractors for spill control and cleanup.

- Spills of petroleum, toxins, or hazardous material are to be reported to the appropriate state or local government agencies immediately, regardless of size.
- Manufacturers' recommended methods for spill cleanup are to be clearly posted and site personnel are to be made aware of the procedures and the location of cleanup supplies.
- Materials and equipment necessary for spill cleanup are to be kept in designated material storage areas on site. Equipment and materials are to include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, spill control materials, sand, sawdust, and trash containers specifically for this purpose.
- Spills are to be cleaned up immediately after discovery.
- The spill area is to be kept well ventilated, and personnel are to wear appropriate protective clothing to prevent injury from contact with hazardous substances.
- A spill report is to be completed and filed in this SWPPP and is to include a description of the spill, what caused it, and the corrective actions taken.

9. RETENTION OF RECORDS

The following documents are to be retained by MVCC and OCDPW for a period of five years from the date the site is permanently stabilized:

- Stormwater Pollution Prevention Plan (including the NOI, the NOI acknowledgement letter, and NOT)
- Contract Documents including Construction Drawings and Technical Specifications
- Inspection Reports by the Engineer/MVCC
- Contractors Certification(s)
- Correspondences regarding site specific project stormwater practices

10. MAINTENANCE

- When the site has been finally stabilized, the operator (owner) shall file with the NYSDEC a notice of termination, (NOT). SWPPP requirements / maintenance shall be the responsibility of the project contractor(s) until the project NOT has been filed.
- The operator (owner) shall provide long term maintencance of the storm water facilities after the NOT has been filed. Maintenance practices shall be conducted by the MVCC facilities department.

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MEP ENGINEER:
Towne Engineering
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SITE | CIVIL ENGINEER:
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Syracuse, NY 13204
315 476 1022

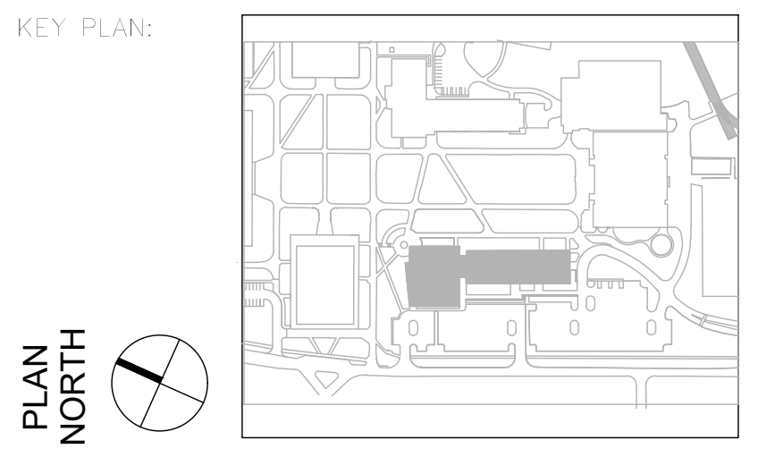
SEAL:
REGISTERED LANDSCAPE ARCHITECT
STATE OF NEW YORK
VINCENT PAUL PIETRZAK
001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

S & T BUILDING
REPLACEMENT

DRAWING TITLE:

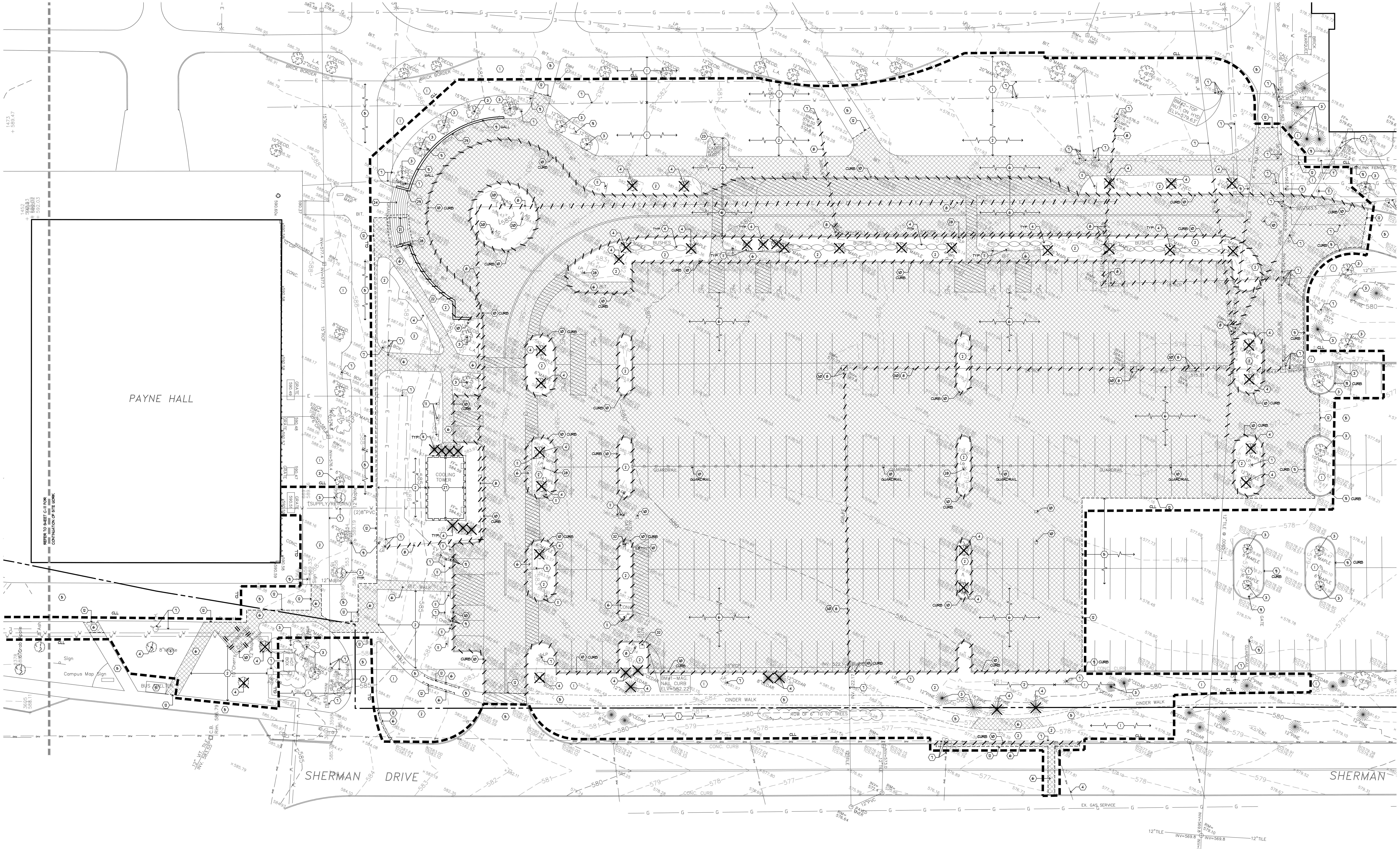
SWPPP NOTES

PROJECT NO: 23000	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

C-102

SITE PREPARATION and CONSTRUCTION NOTES - MVCC

1. EXISTING LAWN AREA REMAINS. PROTECT.
2. STRIP EXISTING TOPSOIL AND STOCK PILE FOR REUSE ONSITE IN AN AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER. TEMPORARILY SEED ENTIRE PILE IMMEDIATELY AND SURROUND WITH SILT FENCE.
3. EXISTING VEGETATION REMAINS. PROTECT AT ALL TIMES AS SHOWN ON THE PLANS AND AS SPECIFIED. DO NOT PARK VEHICLES/EQUIPMENT OR STORE MATERIALS WITHIN DRIP LINES OF TREES.
4. REMOVE EXISTING VEGETATION, INCLUDING ALL STUMPS AND ROOTS AND DISPOSE OFF SITE. BACKFILL VOID WITH IMPORTED GRANULAR MATERIAL COMPACTED TO MINIMUM 95% OF IN PLACE DRY DENSITY.
5. EXISTING PAVEMENT REMAINS. PROTECT. REPLACE ANY PAVEMENT DAMAGED DURING CONSTRUCTION OPERATIONS.
6. REMOVE EXISTING PAVEMENT SURFACE AND HAUL OFF SITE OR MILL AND USE AS GENERAL EARTH FILL WHEN MEETING SPECIFIED SIEVE REQUIREMENTS. REMOVE GRANULAR BASE COURSE AND HAUL OFF SITE OR USE AS GENERAL EARTH FILL WHEN MEETING SPECIFIED SIEVE REQUIREMENTS. MILLINGS MAY BE USED WITHIN THE BOTTOM 50% OF PROPOSED GRANULAR BASE COURSE AT NEW PAVEMENT AREAS, WHEN MEETING SIEVE REQUIREMENTS.
7. EXISTING SITE UTILITY REMAINS. PROTECT.
8. REMOVE EXISTING SITE UTILITY DISPOSE OFF SITE AND BACK FILL VOID WITH IMPORTED GRANULAR MATERIAL, COMPACTED TO MINIMUM 95% OF IN PLACE DRY DENSITY.
9. EXISTING SITE FEATURE REMAINS. PROTECT.
10. REMOVE EXISTING SITE FEATURE AND DISPOSE OFF SITE, INCLUDING ANY ASSOCIATED FOOTINGS OR UNDERDRAINS. BACKFILL VOID WITH IMPORTED GRANULAR MATERIAL COMPACTED TO 95% OF IN PLACE DRY DENSITY.
11. REMOVE EXISTING TRAFFIC SIGN AND RETURN TO OWNER.
12. SAW CUT NEAT, STRAIGHT EDGE PRIOR TO PAVING. AT CONCRETE SIDEWALKS REMOVE AT NEAREST SCORE JOINT.
13. VERIFY LOCATION, ELEVATION, INVERT AND TYPE OF EXISTING PIPE PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY WITH SURVEY OR PROPOSED WORK.
14. ADJUST UTILITY TO FINISHED GRADE.
15. MEET EXISTING LINE AND GRADE.
16. SLIP DOWEL NEW CONCRETE WALK INTO EXISTING CONCRETE WALK OR BUILDING FOUNDATION WALL WITH No. 4 SLIP DOWEL, 18" LONG, 12" O.C., 2" CLEAR MINIMUM FROM SURFACE. INSERT DOWELS EQUAL LENGTH INTO EXISTING AND NEW CONCRETE. PROVIDE EXPANSION JOINT AND SEALANT.
17. ALIGN NEW EDGE WITH EXISTING.
18. CAP END SILT TIGHT.
19. PROVIDE HOT TAR ASPHALT CRACK SEALER BETWEEN EXISTING AND NEW ASPHALT JOINT.
20. REMOVE AND SALVAGE EXISTING FLAG POLES AND ACCESSORIES AND RETURN TO OWNER
21. REMOVE AND SALVAGE EXISTING GRANITE STAIR TREADS AND STOCKPILE FOR REUSE. SALVAGE HANDRAILS AND RETURN TO OWNER. REMOVE CONCRETE SUB-SLAB AND FOUNDATION UNDER STEPS AND DISPOSE.
22. REMOVE AND DISPOSE EXISTING MASONRY WALL INCLUDING FOUNDATIONS AND DISPOSE. SALVAGE, STOCKPILE AND CLEAN 100 SQUARE FEET OF FACE BRICK FOR PATCHING NEW WORK.
23. SALVAGE EXISTING MAP KIOSK SIGN AND REINSTALL AS SHOWN. REMOVE AND DISPOSE MASONRY BASE AND CONCRETE FOOTING.
24. EXISTING GRANITE STEPS AND HANDRAILS TO REMAIN. PROTECT.
25. MOUNT SIGNS ON BUILDING WALL WITH STAINLESS STEEL FASTENERS. FINAL PLACEMENT APPROVED BY ARCHITECT.
26. REMOVE AND STOCKPILE PORTION OF EXISTING CHAIN LINK FENCE TO ACCESS NEW WORK. REINSTALL FENCE MATCHING EXISTING CONDITIONS.
27. COOLING TOWER EQUIPMENT DISCONNECTED AND REMOVED BY OTHERS. REMOVE AND DISPOSE SCREEN WALLS AND UTILITY PADS. REMOVE FOUNDATIONS AND DISPOSE. IF ASBESTOS MATERIAL IS ENCOUNTERED, REMOVAL AND DISPOSAL WILL BE UNDER SPARATE CONTRACT. BACKFILL VOID WITH IMPORTED GRANULAR MATERIAL COMPACTED TO 95% OF IN-PLACE DRY DENSITY. REFER TO M.E.P. DWGS.
28. REMOVE AND RETURN LIGHT POLE TO OWNER. REMOVE AND DISPOSE CONCRETE POLE BASE AND BACKFILL WITH IMPORTED GRANULAR MATERIAL COMPACTED TO 95% OF IN-PLACE DRY DENSITY. ELECTRICAL CONTRACT TO VERIFY LIGHTING CIRCUIT AND DISCONNECT.
29. RE-POINT EXISTING MASONRY WALL WHERE DETERIORATED, INCLUDING SOFT OR LOOSE MORTAR, CRACKS, SEPARATION OR WHERE EROSION EXCEEDS ¼". ASSUME 100 LINEAR FEET OF REPOINTING VERTICAL OR HORIZONTAL MORTAR JOINTS.
30. INSTALL NEW STORM WATER BI-PASS PIPING PRIOR TO REMOVAL OF EXISTING STORM SEWER. REFER TO SITE UTILITY PLAN.
31. EXISTING BUS SHELTER/STOP TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.
32. REMOVE AND DISPOSE TRAFFIC GATE AND EQUIPMENT, INCLUDING FOUNDATION. BACKFILL WITH IMPORTED GRANULAR MATERIAL AND COMPACT TO 95% OF IN-PLACE DRY DENSITY. ELECTRICAL CONTRACT TO VERIFY POWER CIRCUIT AND DISCONNECT.
33. SMITH BLAIR 662-08630800-200, 8-INCH TAPPING WITH A FLANGED OUTLET SIZED FOR OUTLETS OF 8 INCHES AND IS BUILT TO WITHSTAND A PRESSURE RATING OF UP TO 200 PSI AND TEMPERATURE RATINGS OF 180 DEGREES FAHRENHEIT.
34. NEW WATER SERVICE SHALL BE DUCTILE IRON-RESTRAINED JOINT PIPE WITH FLEXIBLE RUBBER RING COMPRESSION-TYPE JOINT, AWWA C111, AWWA C151 AND WORKING PRESSURE OF 150 TO 350 PSI.
35. GATE VALVE AND BOX: VALVES SHALL BE 125-POUND FLANGED GATE VALVES MEETING AWWA STANDARDS, IRON BODY, BRONZE MOUNTED, DOUBLE DISC TYPE WITH REMOVABLE BRASS SEATS, NON-RISING MANGANESE BRONZE STEMS, AND OPEN COUNTERCLOCKWISE. VALVE BOX SHALL BE CAST IRON, YOKE TYPE, ADJUSTABLE FOR HEIGHT WITH CAST IRON COVER MARKED "WATER". BOXES SHALL BE DESIGNED FOR PIPE IN TRENCH HAVING A 5'-6" COVER OVER PIPE. STANDARD OF QUALITY SHALL BE KENNEDY OR APPROVED MUNICIPAL STANDARD.



MVCC - SITE PREPARATION PLAN

WORK AREA A

0 10 20 40 60
SCALE IN FEET

ONEIDA COUNTY
NEW YORK
1798

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

1101 SHERMAN DRIVE
UTICA, NY 13501
(315) 792-5400

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315 476 1022

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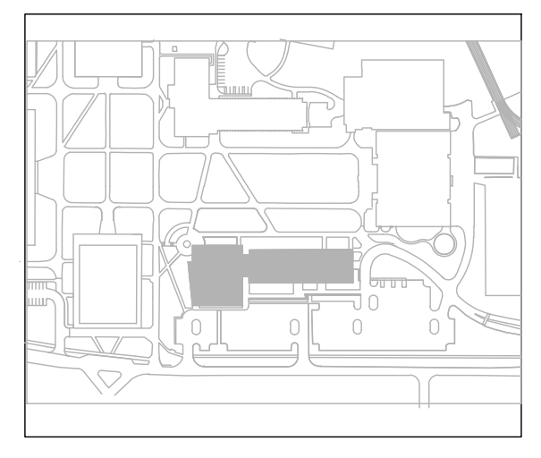
VINCENT PAUL PIETRZAK
001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:

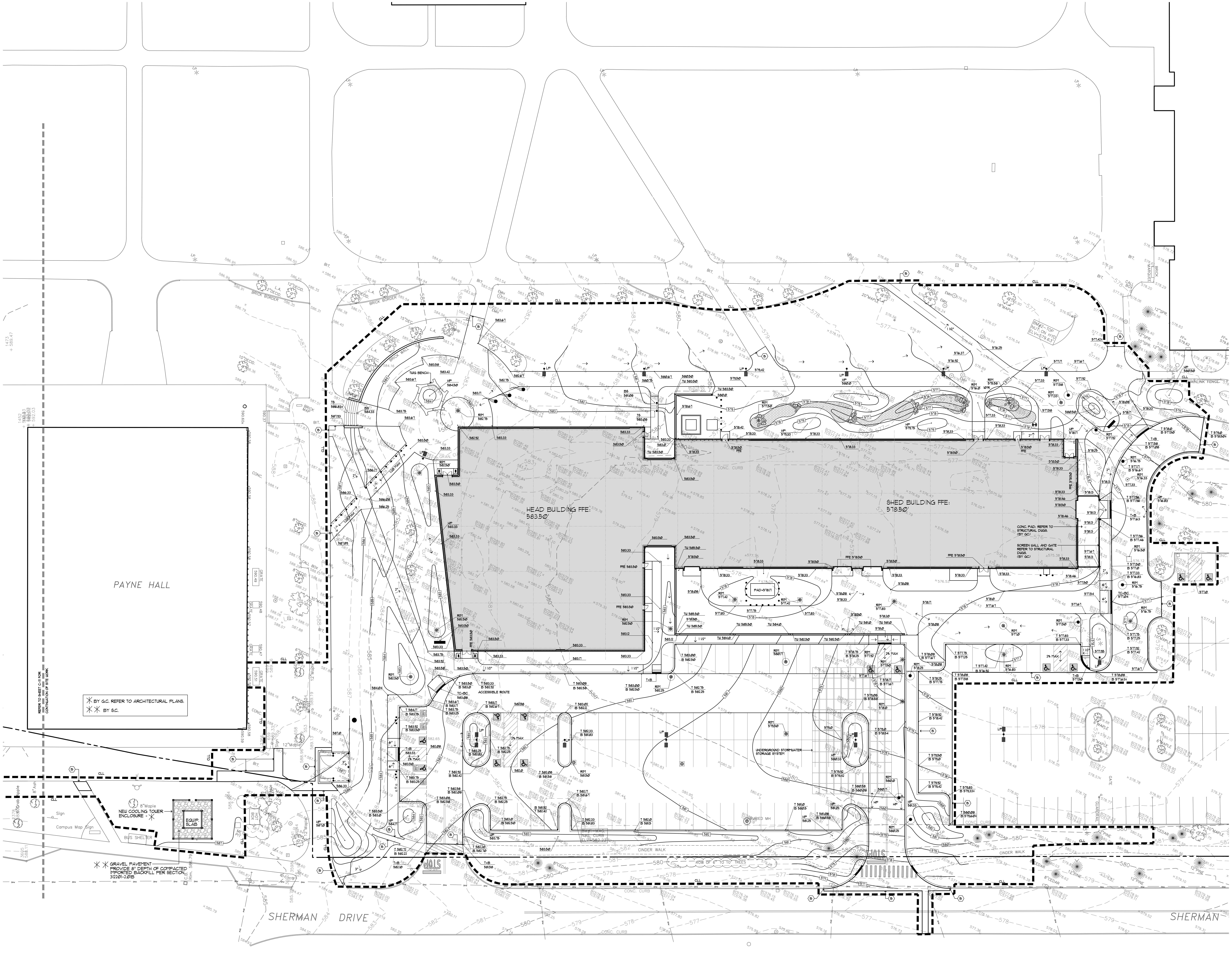


PROJECT:
S & T BUILDING REPLACEMENT

DRAWING TITLE:
SITE PREPARATION PLAN

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-103


PAYNE HALL
HEAD BUILDING FFE: 583.50'
SHED BUILDING FFE: 578.50'
CONC. CURB
UNDERGROUND STORMWATER STORAGE SYSTEM
ACCESSIBLE ROUTE
CINDER WALK
ROW OF 6'-10' TREES
NEW COOLING TOWER ENCLOSURE - ✳
EQUIP. SLAB
BUS SHELTER
Campus Map Sign
REFER TO SHEET C-111 FOR CONTINUATION OF SITE WORK
SHERMAN DRIVE
SHERMAN

✳ BY G.C. REFER TO ARCHITECTURAL PLANS.
✳✳ BY S.C.

✳✳ GRAVEL PAVEMENT
PROVIDE 8" DEPTH OF COMPACTED
IMPORTED BACKFILL PER SECTION
312201-2.01B

MVCC - SITE GRADING PLAN

WORK AREA A

0 10 20 40 60
SCALE IN FEET

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

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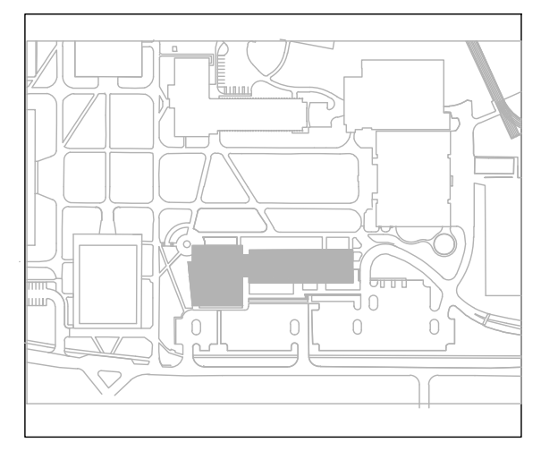
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PLAN NORTH

PROJECT:

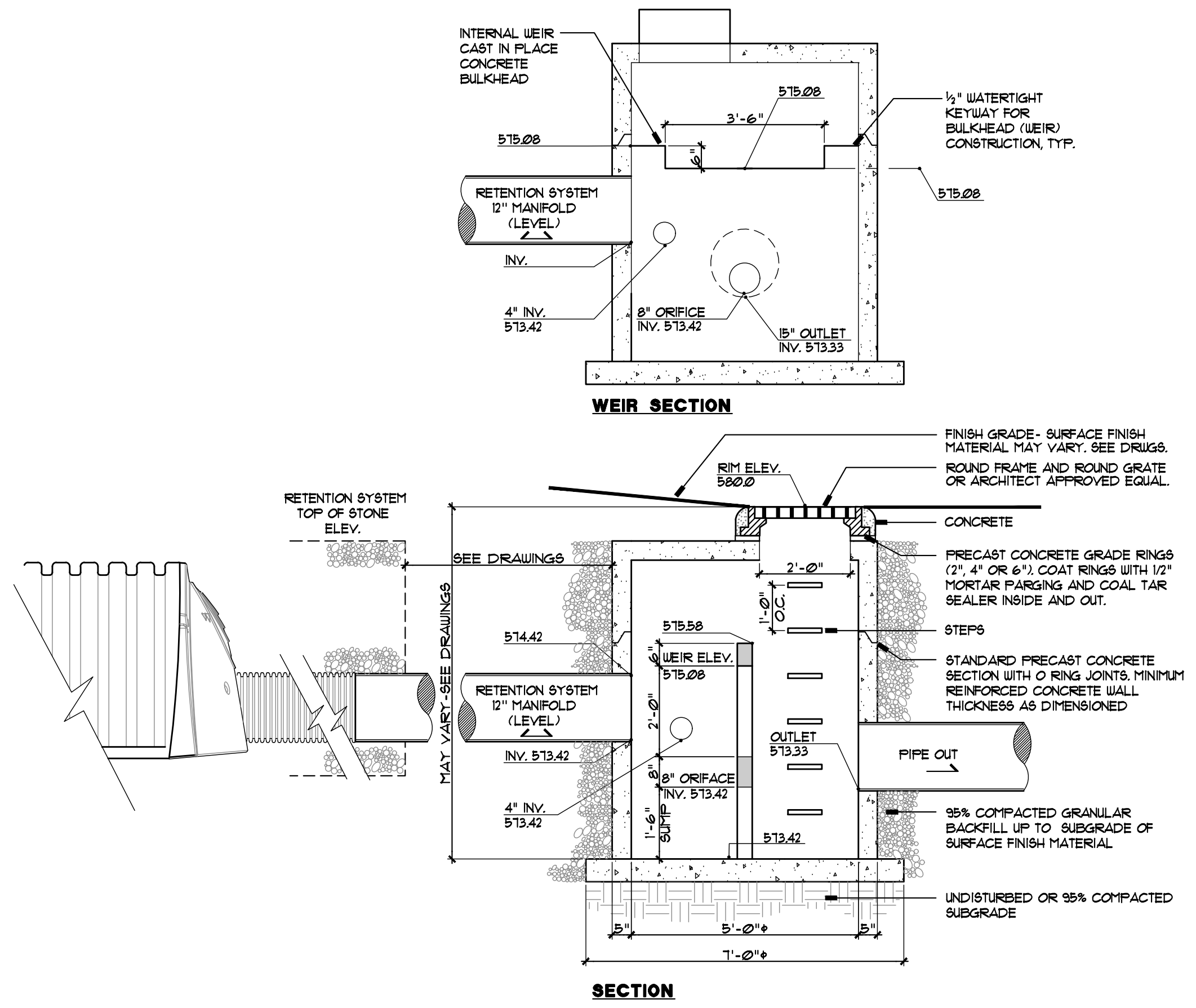
S & T BUILDING
REPLACEMENT

DRAWING TITLE:

SITE GRADING PLAN

PROJECT NO: 23000	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

C-104


INTERNAL WEIR CAST IN PLACE CONCRETE BULKHEAD
575.08
3'-6"
½" WATERTIGHT KEYWAY FOR BULKHEAD (WEIR) CONSTRUCTION, TYP.
RETENTION SYSTEM 12" MANIFOLD (LEVEL)
INV.
4" INV. 573.42
8" ORIFICE INV. 573.42
15" OUTLET INV. 573.33
WEIR SECTION
RETENTION SYSTEM TOP OF STONE ELEV.
SEE DRAWINGS
MAY VARY-SEE DRAWINGS
RIM ELEV. 580.0
FINISH GRADE- SURFACE FINISH MATERIAL MAY VARY. SEE DRWGS.
ROUND FRAME AND ROUND GRATE OR ARCHITECT APPROVED EQUAL.
CONCRETE
PRECAST CONCRETE GRADE RINGS (2", 4" OR 6"). COAT RINGS WITH 1/2" MORTAR PARGING AND COAL TAR SEALER INSIDE AND OUT.
STEPS
STANDARD PRECAST CONCRETE SECTION WITH O RING JOINTS. MINIMUM REINFORCED CONCRETE WALL THICKNESS AS DIMENSIONED
574.42
575.58
WEIR ELEV. 575.08
INV. 573.42
8" ORIFACE INV. 573.42
1'-6" SUMP
OUTLET 573.33
PIPE OUT
573.42
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF SURFACE FINISH MATERIAL
UNDISTURBED OR 95% COMPACTED SUBGRADE
5" 5'-0"ϕ 5"
7'-0"ϕ
SECTION

6 / C105 CONTROL STRUCTURE W/ INTERNAL WEIR = CS
SECTION • NOT TO SCALE 3340-217
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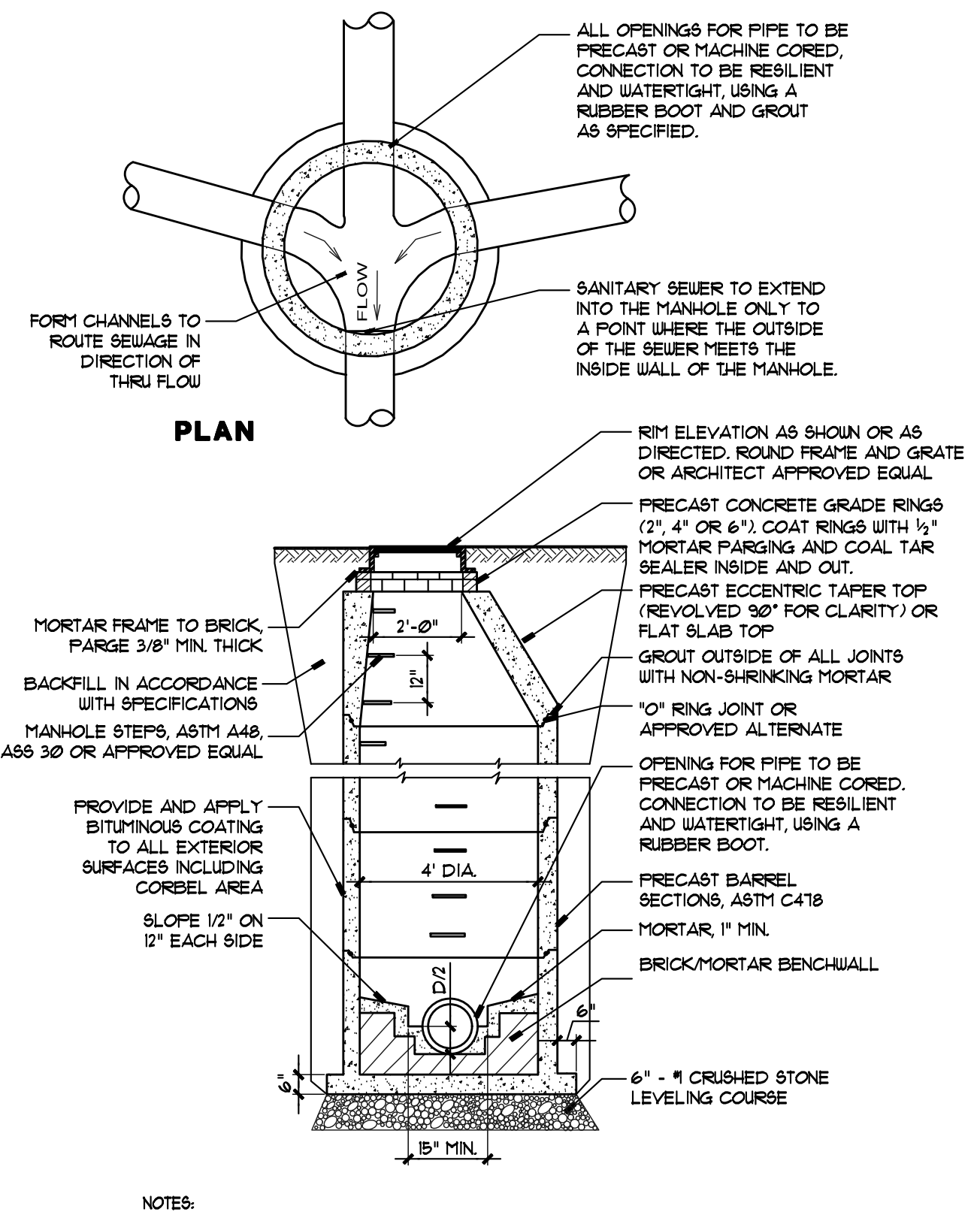
ALL OPENINGS FOR PIPE TO BE PRECAST OR MACHINE CORED, CONNECTION TO BE RESILIENT AND WATERTIGHT, USING A RUBBER BOOT AND GROUT AS SPECIFIED.
FLOW
FORM CHANNELS TO ROUTE SEWAGE IN DIRECTION OF THRU FLOW
SANITARY SEWER TO EXTEND INTO THE MANHOLE ONLY TO A POINT WHERE THE OUTSIDE OF THE SEWER MEETS THE INSIDE WALL OF THE MANHOLE.
PLAN
RIM ELEVATION AS SHOWN OR AS DIRECTED. ROUND FRAME AND GRATE OR ARCHITECT APPROVED EQUAL
PRECAST CONCRETE GRADE RINGS (2", 4" OR 6"). COAT RINGS WITH ½" MORTAR PARGING AND COAL TAR SEALER INSIDE AND OUT.
PRECAST ECCENTRIC TAPER TOP (REVOLVED 90° FOR CLARITY) OR FLAT SLAB TOP
GROUT OUTSIDE OF ALL JOINTS WITH NON-SHRINKING MORTAR
"O" RING JOINT OR APPROVED ALTERNATE
OPENING FOR PIPE TO BE PRECAST OR MACHINE CORED. CONNECTION TO BE RESILIENT AND WATERTIGHT, USING A RUBBER BOOT.
PRECAST BARREL SECTIONS, ASTM C478
MORTAR, 1" MIN.
BRICK/MORTAR BENCHWALL
6" - #1 CRUSHED STONE LEVELING COURSE
MORTAR FRAME TO BRICK, PARGE 3/8" MIN. THICK
BACKFILL IN ACCORDANCE WITH SPECIFICATIONS
MANHOLE STEPS, ASTM A48, CLASS 30 OR APPROVED EQUAL
PROVIDE AND APPLY BITUMINOUS COATING TO ALL EXTERIOR SURFACES INCLUDING CORBEL AREA
SLOPE 1/2" ON 12" EACH SIDE
2'-0"
12"
4' DIA.
D/2
6"
15" MIN.

NOTES:
ALL FRAMES AND COVERS WILL BE ADEQUATE TO BEAR H-20 WHEEL LOADS.

5 / C105 SANITARY MANHOLE
SECTION • NOT TO SCALE 252-013
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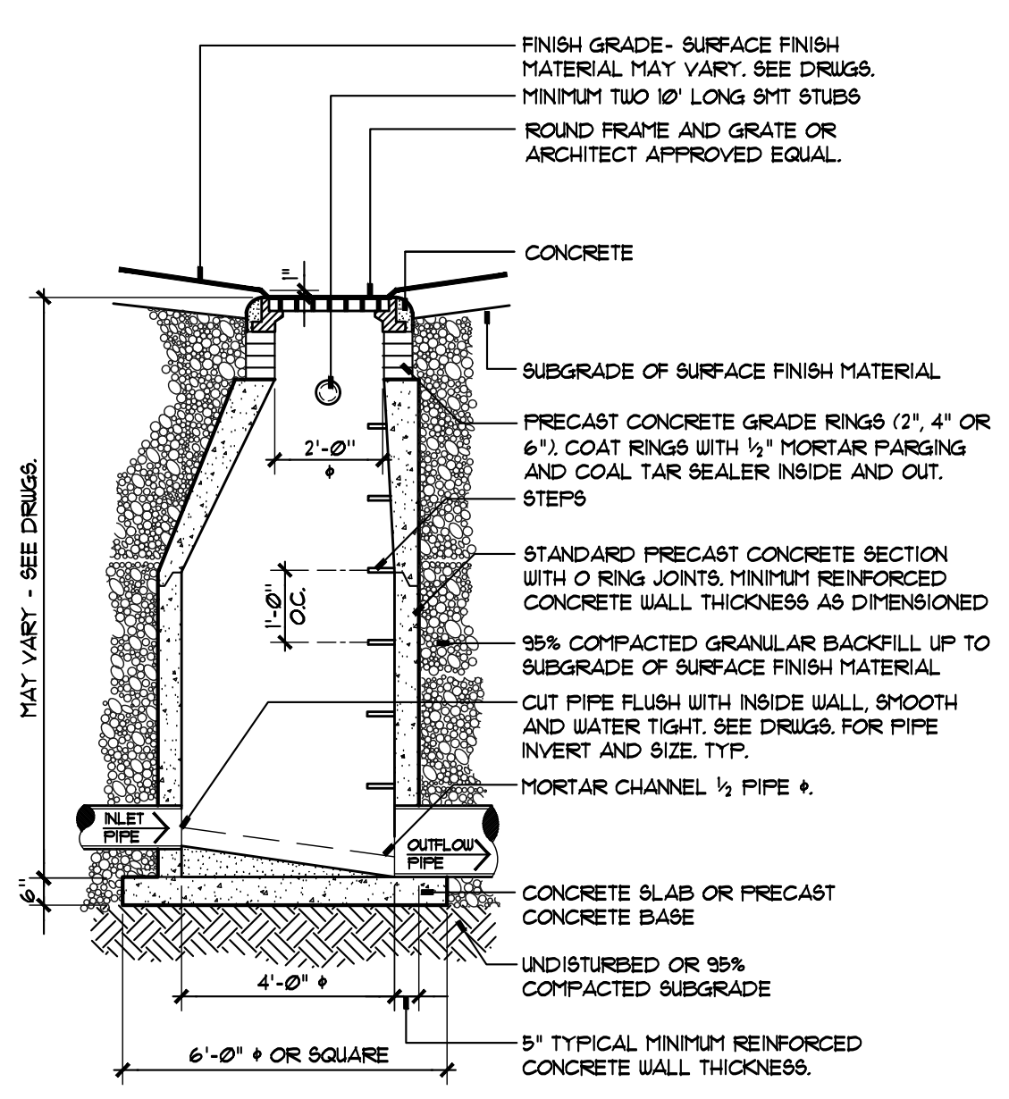
FINISH GRADE- SURFACE FINISH MATERIAL MAY VARY. SEE DRWGS.
MINIMUM TWO 10' LONG SMT STUBS
ROUND FRAME AND GRATE OR ARCHITECT APPROVED EQUAL.
CONCRETE
SUBGRADE OF SURFACE FINISH MATERIAL
PRECAST CONCRETE GRADE RINGS (2", 4" OR 6"). COAT RINGS WITH ½" MORTAR PARGING AND COAL TAR SEALER INSIDE AND OUT.
STEPS
STANDARD PRECAST CONCRETE SECTION WITH O RING JOINTS. MINIMUM REINFORCED CONCRETE WALL THICKNESS AS DIMENSIONED
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF SURFACE FINISH MATERIAL
CUT PIPE FLUSH WITH INSIDE WALL, SMOOTH AND WATER TIGHT. SEE DRWGS. FOR PIPE INVERT AND SIZE. TYP.
MORTAR CHANNEL ½ PIPE ϕ.
CONCRETE SLAB OR PRECAST CONCRETE BASE
UNDISTURBED OR 95% COMPACTED SUBGRADE
5" TYPICAL MINIMUM REINFORCED CONCRETE WALL THICKNESS.
MAY VARY - SEE DRWGS.
INLET PIPE
OUTFLOW PIPE
2'-0" ϕ
1'-0" O.C.
4'-0" ϕ
6'-0" ϕ OR SQUARE

4 / C105 STORM MANHOLE = MH
SECTION • NOT TO SCALE 3340-203A
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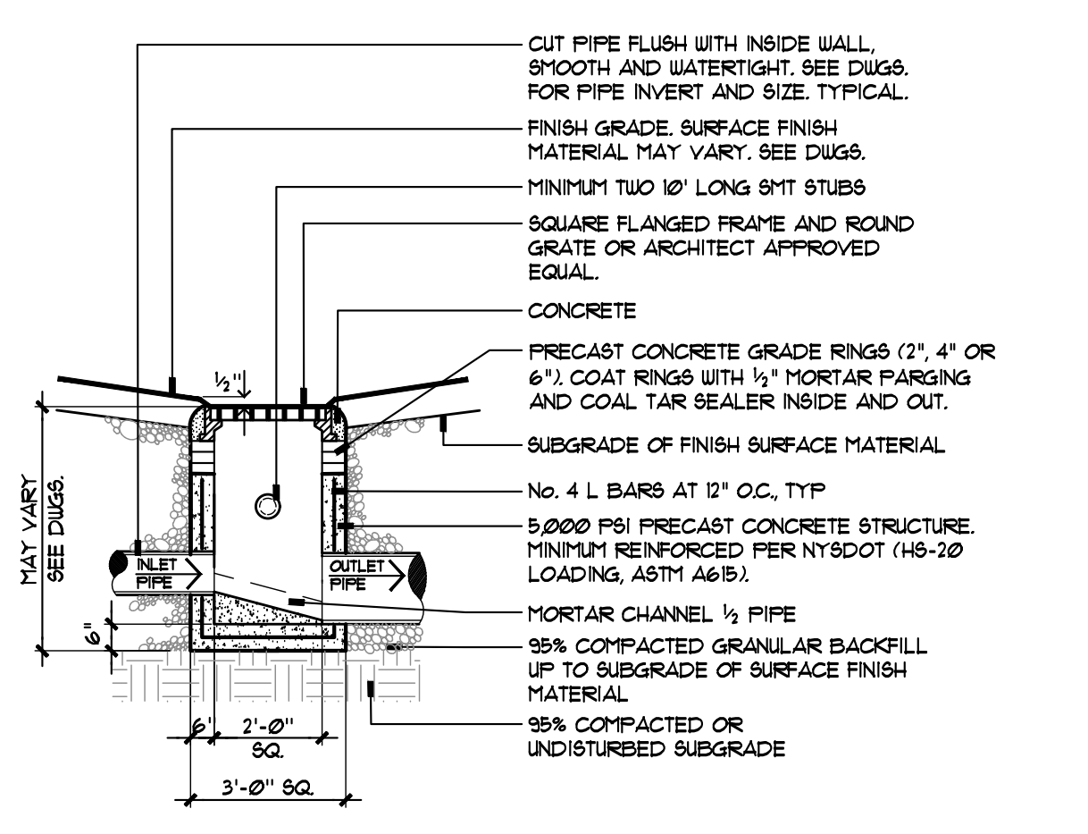
CUT PIPE FLUSH WITH INSIDE WALL, SMOOTH AND WATERTIGHT. SEE DWGS. FOR PIPE INVERT AND SIZE. TYPICAL.
FINISH GRADE. SURFACE FINISH MATERIAL MAY VARY. SEE DWGS.
MINIMUM TWO 10' LONG SMT STUBS
SQUARE FLANGED FRAME AND ROUND GRATE OR ARCHITECT APPROVED EQUAL.
CONCRETE
PRECAST CONCRETE GRADE RINGS (2", 4" OR 6"). COAT RINGS WITH ½" MORTAR PARGING AND COAL TAR SEALER INSIDE AND OUT.
SUBGRADE OF FINISH SURFACE MATERIAL
No. 4 L BARS AT 12" O.C., TYP
5,000 PSI PRECAST CONCRETE STRUCTURE. MINIMUM REINFORCED PER NYSDOT (HS-20 LOADING, ASTM A615).
MORTAR CHANNEL ½ PIPE
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF SURFACE FINISH MATERIAL
95% COMPACTED OR UNDISTURBED SUBGRADE
MAY VARY SEE DWGS.
INLET PIPE
OUTLET PIPE
½"
6"
6' 2'-0" SQ.
3'-0" SQ.

3 / C105 STORM INLET - SI
SECTION • NOT TO SCALE 3340-202A
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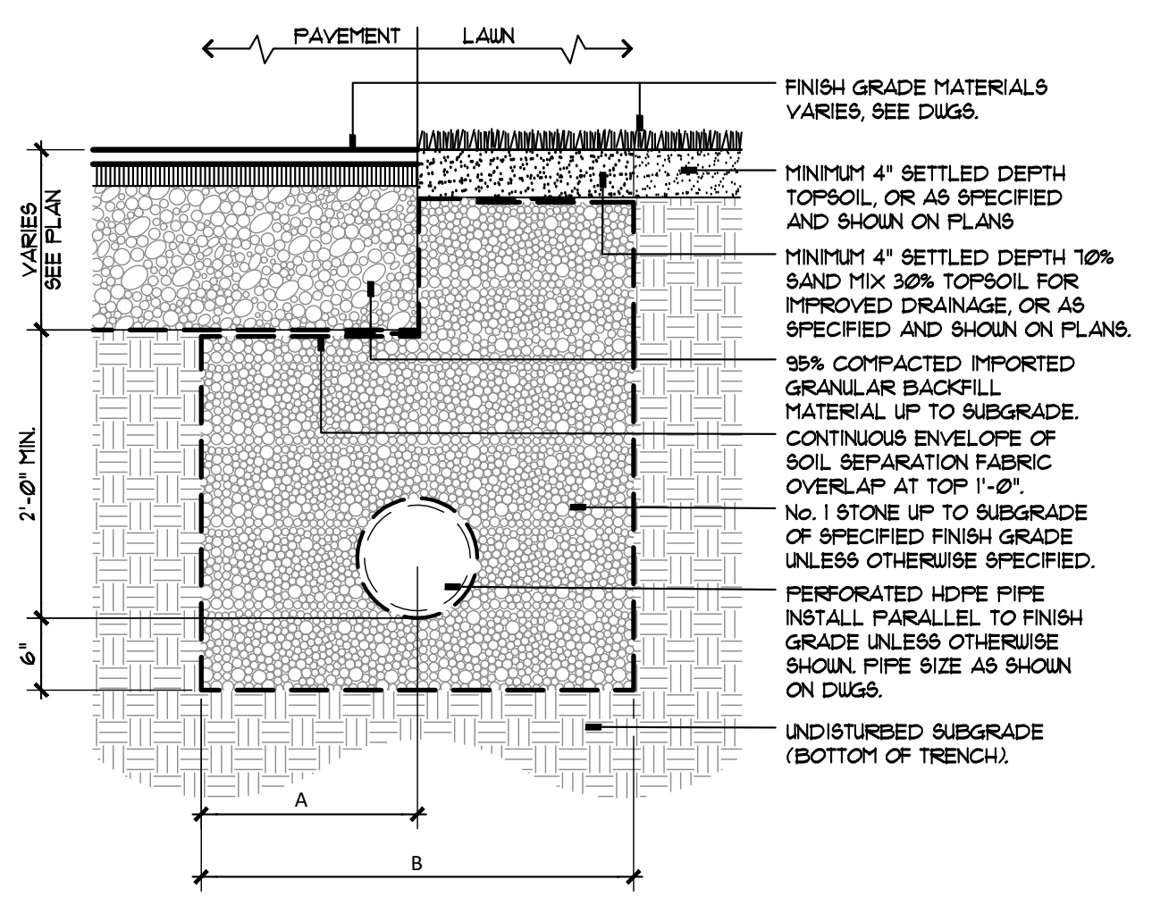
PAVEMENT
LAWN
FINISH GRADE MATERIALS VARIES, SEE DWGS.
MINIMUM 4" SETTLED DEPTH TOPSOIL, OR AS SPECIFIED AND SHOWN ON PLANS
MINIMUM 4" SETTLED DEPTH 70% SAND MIX 30% TOPSOIL FOR IMPROVED DRAINAGE, OR AS SPECIFIED AND SHOWN ON PLANS.
95% COMPACTED IMPORTED GRANULAR BACKFILL MATERIAL UP TO SUBGRADE.
CONTINUOUS ENVELOPE OF SOIL SEPARATION FABRIC OVERLAP AT TOP 1'-0".
No. 1 STONE UP TO SUBGRADE OF SPECIFIED FINISH GRADE UNLESS OTHERWISE SPECIFIED.
PERFORATED HDPE PIPE INSTALL PARALLEL TO FINISH GRADE UNLESS OTHERWISE SHOWN. PIPE SIZE AS SHOWN ON DWGS.
UNDISTURBED SUBGRADE (BOTTOM OF TRENCH).
VARIES SEE PLAN
2'-0" MIN.
6"
A
B

PIPE SIZE	A	B	NOTES
4"	6"	1'-0"	FLEXIBLE
6"	6"	1'-0"	FLEXIBLE
8"	1'-0"	2'-0"	FLEXIBLE

PIPE SIZE	A	B	NOTES
10"	1'-6"	3'-0"	FLEXIBLE
12"	2'-0"	4'-0"	FLEXIBLE

2 / C105 STORMWATER MGMT TRENCH = SMT
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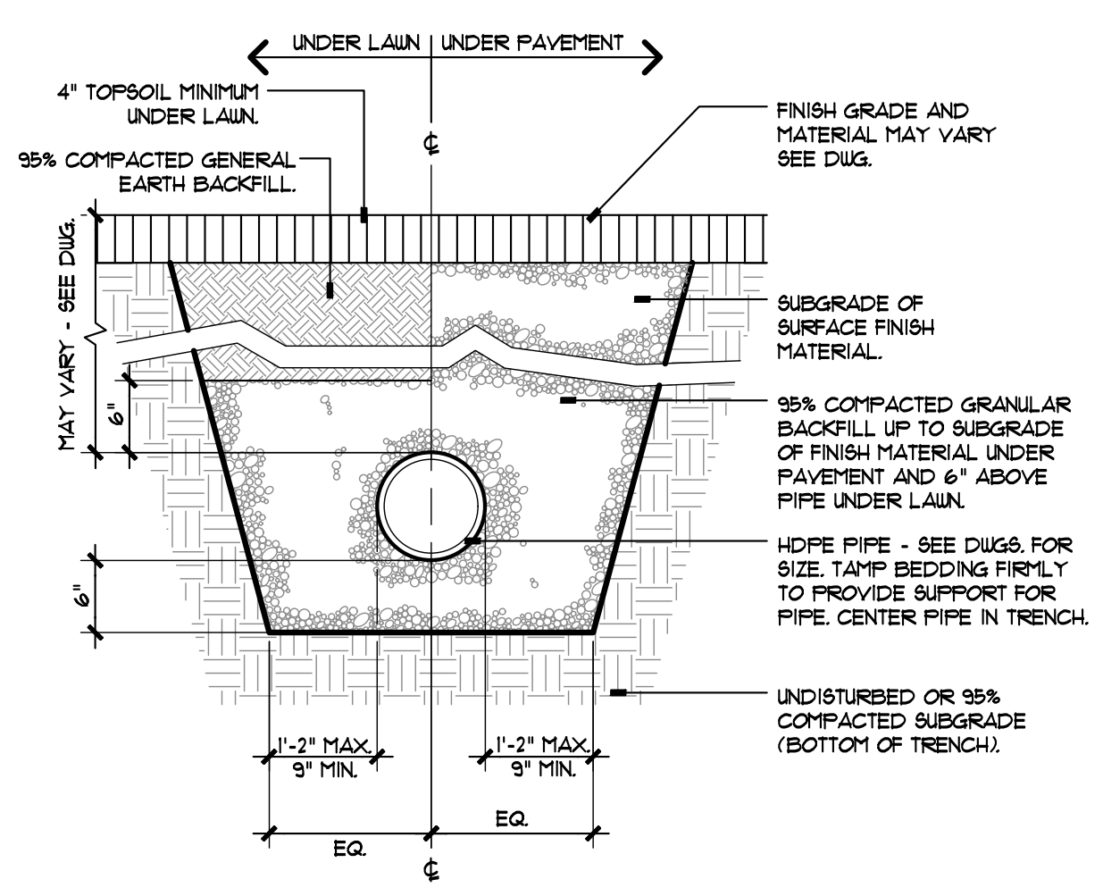
UNDER LAWN
UNDER PAVEMENT
4" TOPSOIL MINIMUM UNDER LAWN.
95% COMPACTED GENERAL EARTH BACKFILL.
FINISH GRADE AND MATERIAL MAY VARY SEE DWG.
SUBGRADE OF SURFACE FINISH MATERIAL.
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF FINISH MATERIAL UNDER PAVEMENT AND 6" ABOVE PIPE UNDER LAWN.
HDPE PIPE - SEE DWGS. FOR SIZE. TAMP BEDDING FIRMLY TO PROVIDE SUPPORT FOR PIPE. CENTER PIPE IN TRENCH.
UNDISTURBED OR 95% COMPACTED SUBGRADE (BOTTOM OF TRENCH).
MAY VARY - SEE DWG.
6"
6"
1'-2" MAX. 9" MIN.
1'-2" MAX. 9" MIN.
EQ.
EQ.
℄

1 / C105 STORM OR SANITARY TRENCH = ST / SAN
SECTION • NOT TO SCALE 3340-105A
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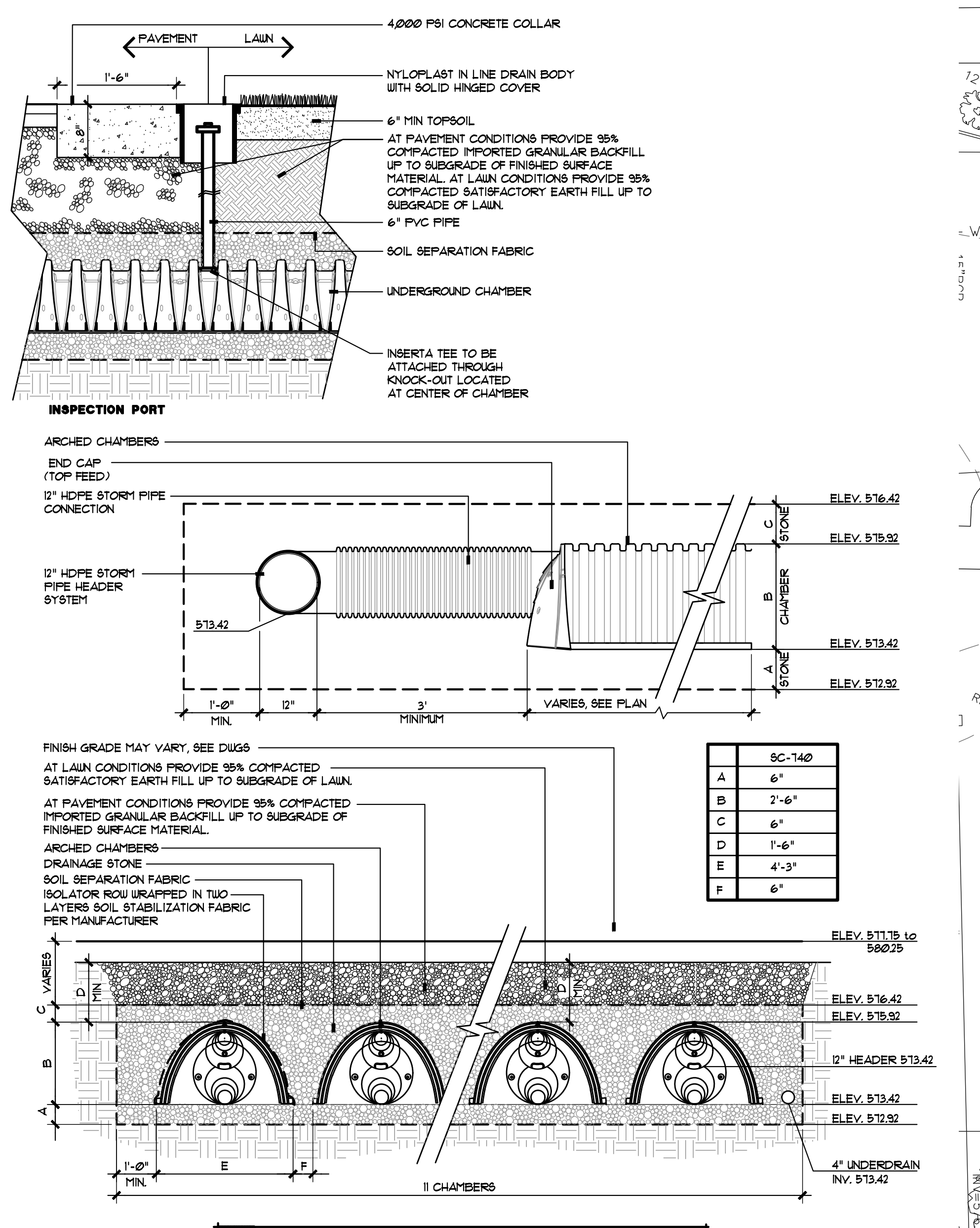
4,000 PSI CONCRETE COLLAR
PAVEMENT
LAWN
1'-6"
8"
NYLOPLAST IN LINE DRAIN BODY WITH SOLID HINGED COVER
6" MIN TOPSOIL
AT PAVEMENT CONDITIONS PROVIDE 95% COMPACTED IMPORTED GRANULAR BACKFILL UP TO SUBGRADE OF FINISHED SURFACE MATERIAL. AT LAWN CONDITIONS PROVIDE 95% COMPACTED SATISFACTORY EARTH FILL UP TO SUBGRADE OF LAWN.
6" PVC PIPE
SOIL SEPARATION FABRIC
UNDERGROUND CHAMBER
INSERTA TEE TO BE ATTACHED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER
INSPECTION PORT
ARCHED CHAMBERS
END CAP (TOP FEED)
12" HDPE STORM PIPE CONNECTION
12" HDPE STORM PIPE HEADER SYSTEM
573.42
ELEV. 576.42
ELEV. 575.92
ELEV. 573.42
ELEV. 572.92
C STONE
B CHAMBER
A STONE
1'-0" MIN.
12"
3' MINIMUM
VARIES, SEE PLAN
FINISH GRADE MAY VARY, SEE DWGS
AT LAWN CONDITIONS PROVIDE 95% COMPACTED SATISFACTORY EARTH FILL UP TO SUBGRADE OF LAWN.
AT PAVEMENT CONDITIONS PROVIDE 95% COMPACTED IMPORTED GRANULAR BACKFILL UP TO SUBGRADE OF FINISHED SURFACE MATERIAL.
ARCHED CHAMBERS
DRAINAGE STONE
SOIL SEPARATION FABRIC
ISOLATOR ROW WRAPPED IN TWO LAYERS SOIL STABILIZATION FABRIC PER MANUFACTURER
ELEV. 577.75 to 580.25
ELEV. 576.42
ELEV. 575.92
12" HEADER 573.42
ELEV. 573.42
ELEV. 572.92
4" UNDERDRAIN INV. 573.42
VARIES
D MIN
C
B
A
1'-0" MIN.
E
F
11 CHAMBERS

	SC-740
A	6"
B	2'-6"
C	6"
D	1'-6"
E	4'-3"
F	6"

7 / C105 SUBSURFACE INFILTRATION SYSTEM
SECTION • NOT TO SCALE 3340-211D
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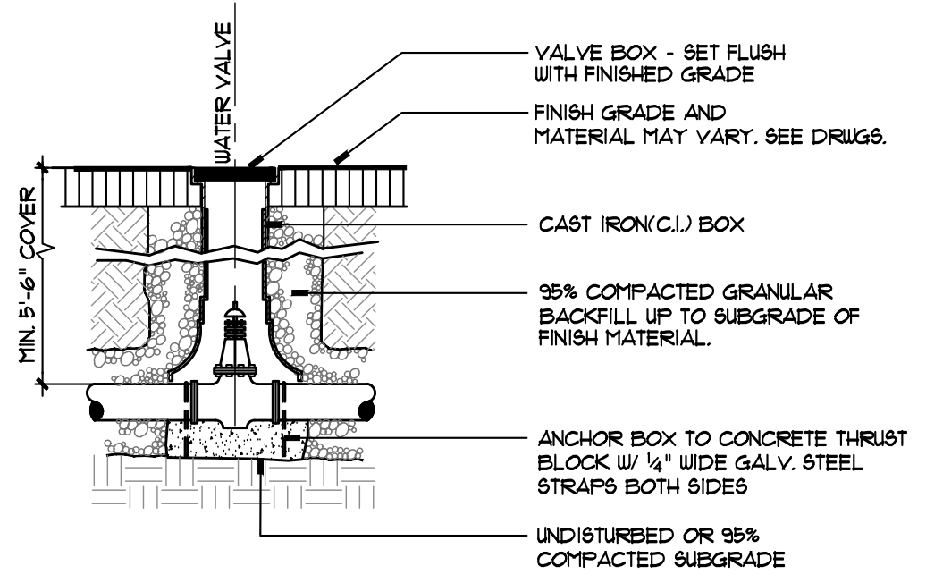
℄ WATER VALVE
VALVE BOX - SET FLUSH WITH FINISHED GRADE
FINISH GRADE AND MATERIAL MAY VARY. SEE DRWGS.
CAST IRON(C.I.) BOX
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF FINISH MATERIAL.
ANCHOR BOX TO CONCRETE THRUST BLOCK W/ ¼" WIDE GALV. STEEL STRAPS BOTH SIDES
UNDISTURBED OR 95% COMPACTED SUBGRADE
MIN. 5'-6" COVER

8 / C105 WATER VALVE = WV
SECTION • NOT TO SCALE 255-005
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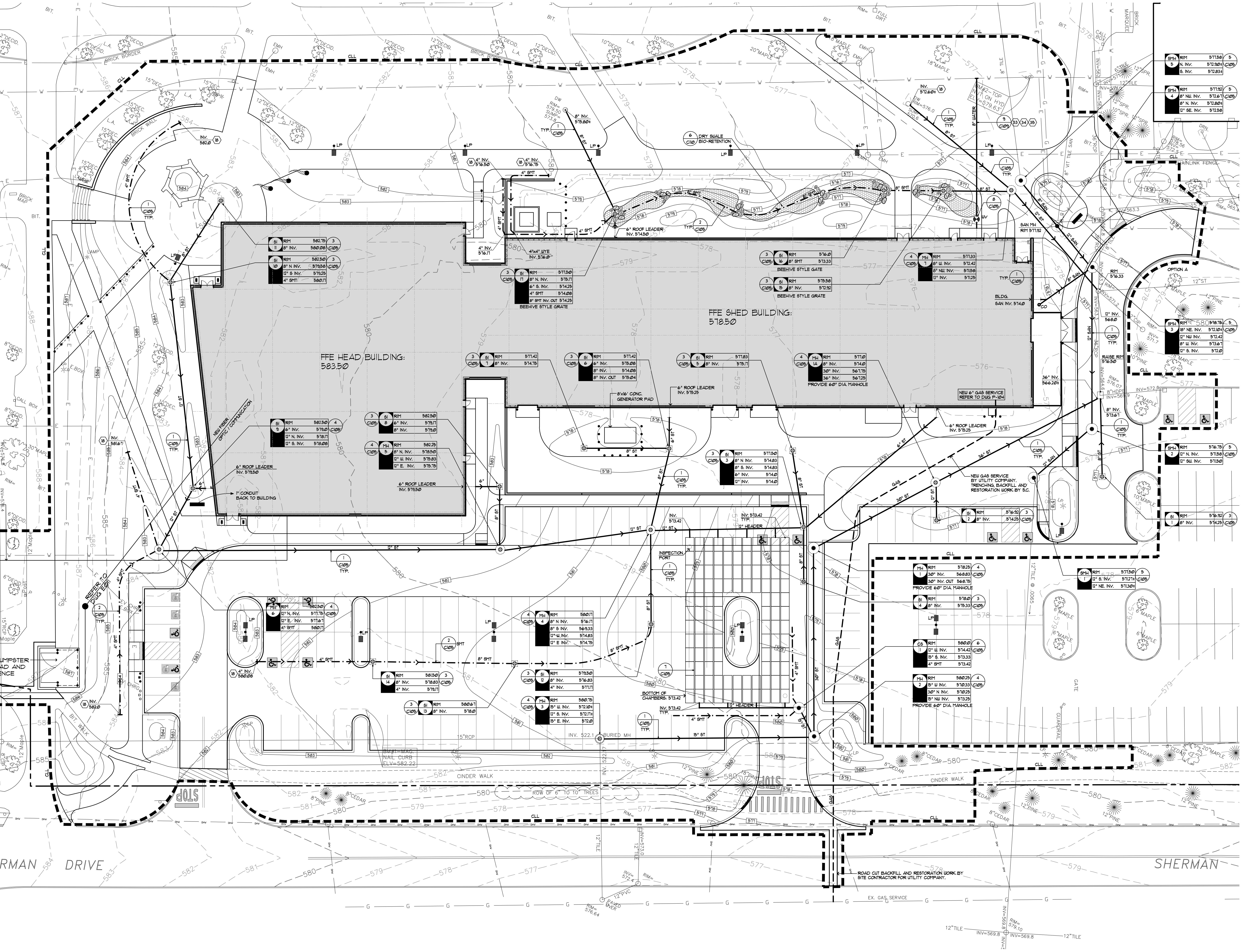
FFE HEAD BUILDING: 583.50
FFE SHED BUILDING: 578.50
SHERMAN DRIVE
SHERMAN
DUMPSTER PAD AND FENCE
NEW COOLING TOWER ENCLOSURE REFER TO M.E.P. DWGS.
8"Maple
Campus Map Sign
Sign
BUS SHELTER
CINDER WALK
ROW OF 6" TO 10" TREES
STOP
INSPECTION PORT
BOTTOM OF CHAMBERS: 573.42
DRY SWALE / BIO-RETENTION
5'x5' CONC. GENERATOR PAD
BEEHIVE STYLE GRATE
PROVIDE 60" DIA MANHOLE
NEW 6" GAS SERVICE REFER TO DWG P-104
NEW GAS SERVICE BY UTILITY COMPANY, TRENCHING, BACKFILL AND RESTORATION WORK BY S.C.
ROAD CUT BACKFILL AND RESTORATION WORK BY SITE CONTRACTOR FOR UTILITY COMPANY.
EX. GAS SERVICE
6" ROOF LEADER
6" CONDUIT BACK TO BUILDING
LAWN
CLL

MVCC - SITE UTILTIY PLAN
WORK AREA A

0 10 20 40 60
SCALE IN FEET

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

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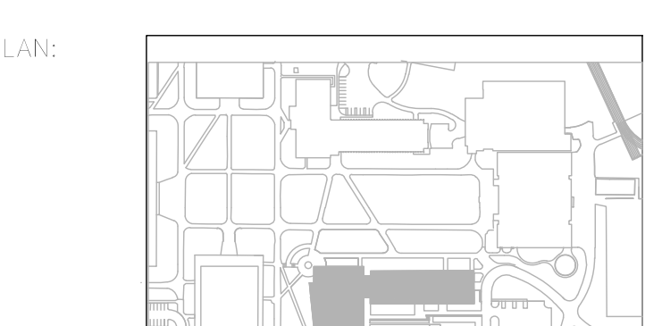
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

S & T BUILDING
REPLACEMENT

DRAWING TITLE:

SITE UTILITY PLAN

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

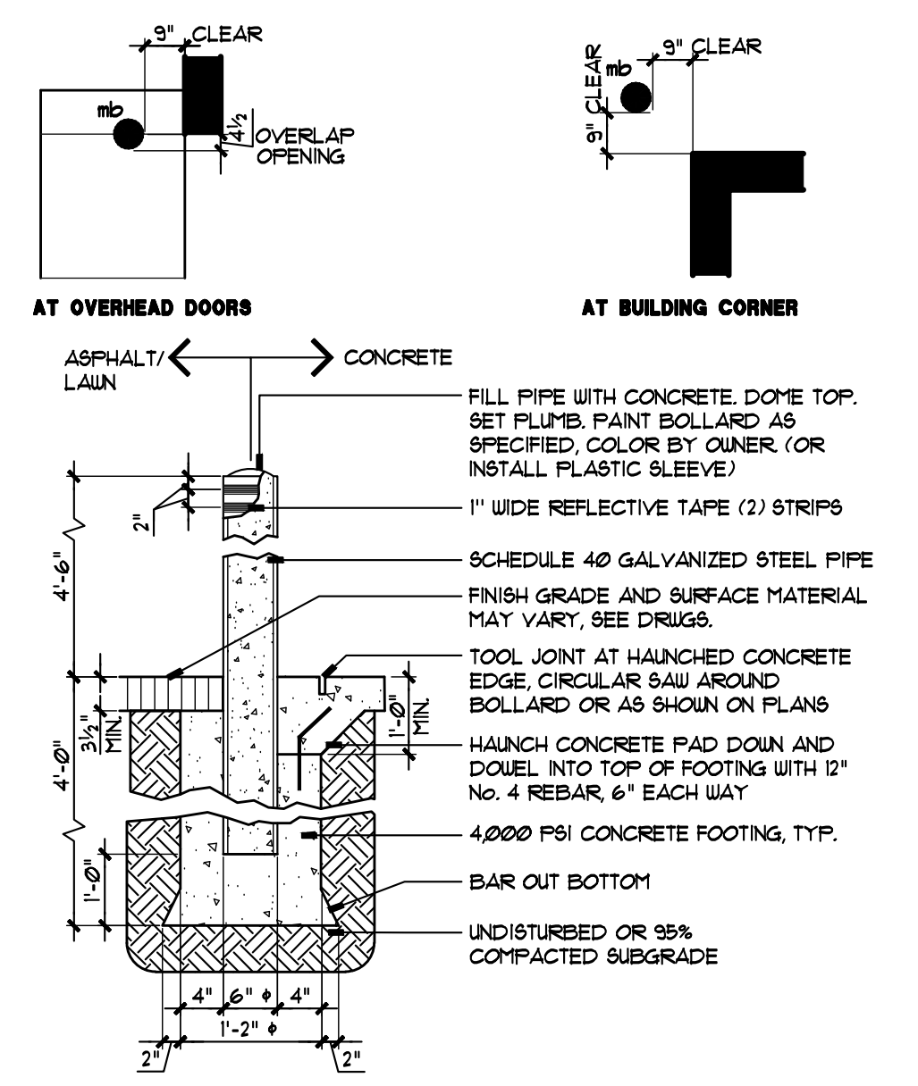
C-105

PARKING SUMMARY (SHERMAN DRIVE LOT ONLY)

	TOTAL	ACCESSIBLE REQUIRED	ACCESSIBLE PROVIDED	EV
EXISTING	434	9	14 *	4
PROPOSED	242	7	12	4 **

* 14 TEMPORARY ACCESSIBLE SPACES TO BE PROVIDED ELSEWHERE ON CAMPUS DURING CONSTRUCTION PERIOD.

** 1 EV SPACE DESIGNATED AS ACCESSIBLE.


9" CLEAR
mb
4½
OVERLAP OPENING
AT OVERHEAD DOORS
9" CLEAR
AT BUILDING CORNER
ASPHALT LAWN
CONCRETE
FILL PIPE WITH CONCRETE DOME TOP. SET FLUSH. PAINT BOLLARD AS SPECIFIED, COLOR BY OWNER (OR INSTALL PLASTIC SLEEVE)
1" WIDE REFLECTIVE TAPE (2) STRIPS
SCHEDULE 40 GALVANIZED STEEL PIPE
FINISH GRADE AND SURFACE MATERIAL MAY VARY, SEE DRWGS.
TOOL JOINT AT HAUNCHED CONCRETE EDGE, CIRCULAR SAW AROUND BOLLARD OR AS SHOWN ON PLANS
HAUNCH CONCRETE PAD DOWN AND DOWEL INTO TOP OF FOOTING WITH 12" No. 4 REBAR, 6" EACH WAY
4,000 PSI CONCRETE FOOTING, TYP.
BAR OUT BOTTOM
UNDISTURBED OR 95% COMPACTED SUBGRADE
4'-0"
1'-0"
4" 6" ϕ 4"
1'-2" ϕ
2" 2"

11 / C106 METAL BOLLARD=MB
SECTION • NOT TO SCALE 3230-006A
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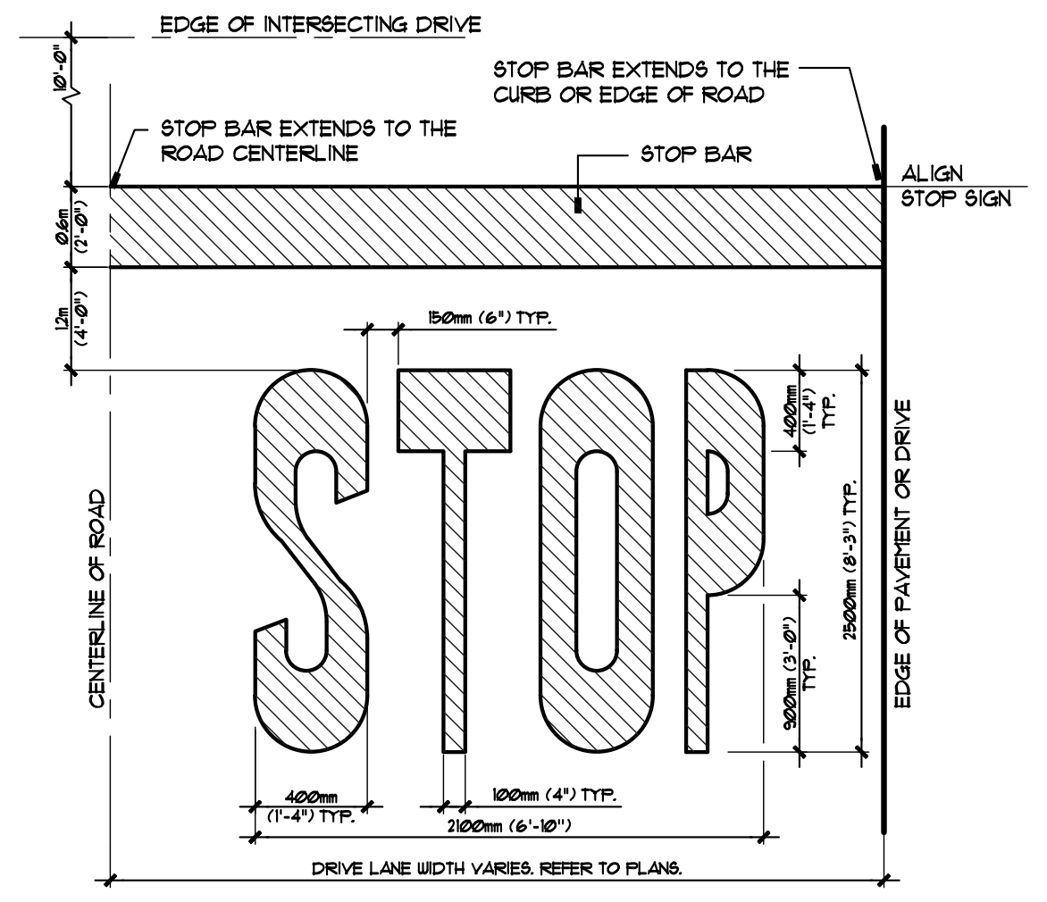
EDGE OF INTERSECTING DRIVE
10'-0"
STOP BAR EXTENDS TO THE CURB OR EDGE OF ROAD
STOP BAR EXTENDS TO THE ROAD CENTERLINE
STOP BAR
ALIGN STOP SIGN
0.6m (2'-0")
STOP
CENTERLINE OF ROAD
EDGE OF PAVEMENT
900mm (3'-0") TYP.
2500mm (8'-3")
400mm (1'-4") TYP.
100mm (4") TYP.
2100mm (6'-10")
DRIVE LANE WIDTH VARIES. REFER TO PLANS.

NOTES:
1. ALL PAINTED LINES ARE TO BE SOLID PAINTED IN APPEARANCE AND CONFORM TO NYSDOT STANDARDS.
2. COLOR SHALL BE WHITE. TWO COATS AS SPECIFIED.
3. CENTER ENTIRE SYMBOL IN DRIVE LANE
4. LAYOUT ALL MARKINGS IN FIELD AND OBTAIN APPROVAL FROM OWNER AND ARCHITECT PRIOR TO PAINTING.
5. TEXT MARKING "STOP" SHALL BE CENTERED ON STOP BAR.
6. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

10 / C106 PAVEMENT MARKING - STOP BAR AND TEXT
PLAN • NOT TO SCALE 3230-012
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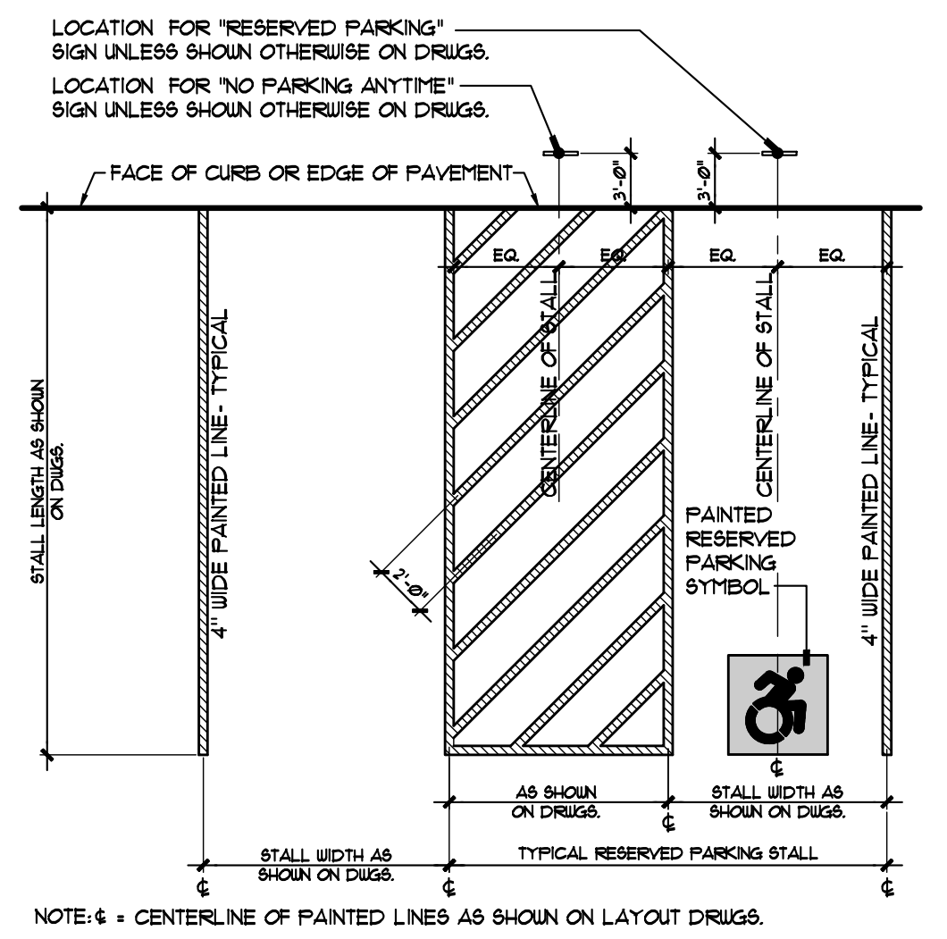
LOCATION FOR "RESERVED PARKING" SIGN UNLESS SHOWN OTHERWISE ON DRWGS.
LOCATION FOR "NO PARKING ANYTIME" SIGN UNLESS SHOWN OTHERWISE ON DRWGS.
FACE OF CURB OR EDGE OF PAVEMENT
3'-0"
EQ. EQ. EQ. EQ.
PAINTED RESERVED PARKING SYMBOL
AS SHOWN ON DRWGS.
STALL WIDTH AS SHOWN ON DWGS.
TYPICAL RESERVED PARKING STALL
STALL WIDTH AS SHOWN ON DWGS.
℄

NOTE: ℄ = CENTERLINE OF PAINTED LINES AS SHOWN ON LAYOUT DRWGS.

9 / C106 PARKING STALL MARKING-TYPICAL
SECTION • NOT TO SCALE 3230-009A
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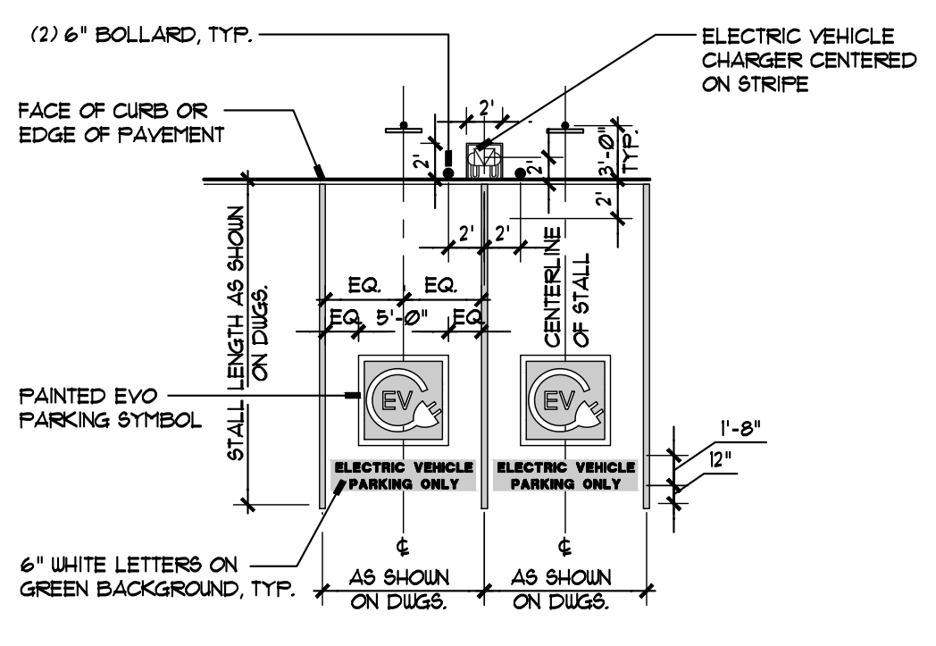
(2) 6" BOLLARD, TYP.
ELECTRIC VEHICLE CHARGER CENTERED ON STRIPE
FACE OF CURB OR EDGE OF PAVEMENT
2'
3'-0" TYP.
EQ. 5'-0" EQ.
PAINTED EVO PARKING SYMBOL
EV
ELECTRIC VEHICLE PARKING ONLY
STALL LENGTH AS SHOWN ON DWGS.
CENTERLINE OF STALL
1'-8"
12"
6" WHITE LETTERS ON GREEN BACKGROUND, TYP.
AS SHOWN ON DWGS.
℄

NOTE: ℄ = CENTERLINE OF PAINTED LINES AS SHOWN ON LAYOUT DRWGS.

8 / C106 EVC PARKING STALL MARKING-TYPICAL
SECTION • ⅛"=1'-0" 3230-012A
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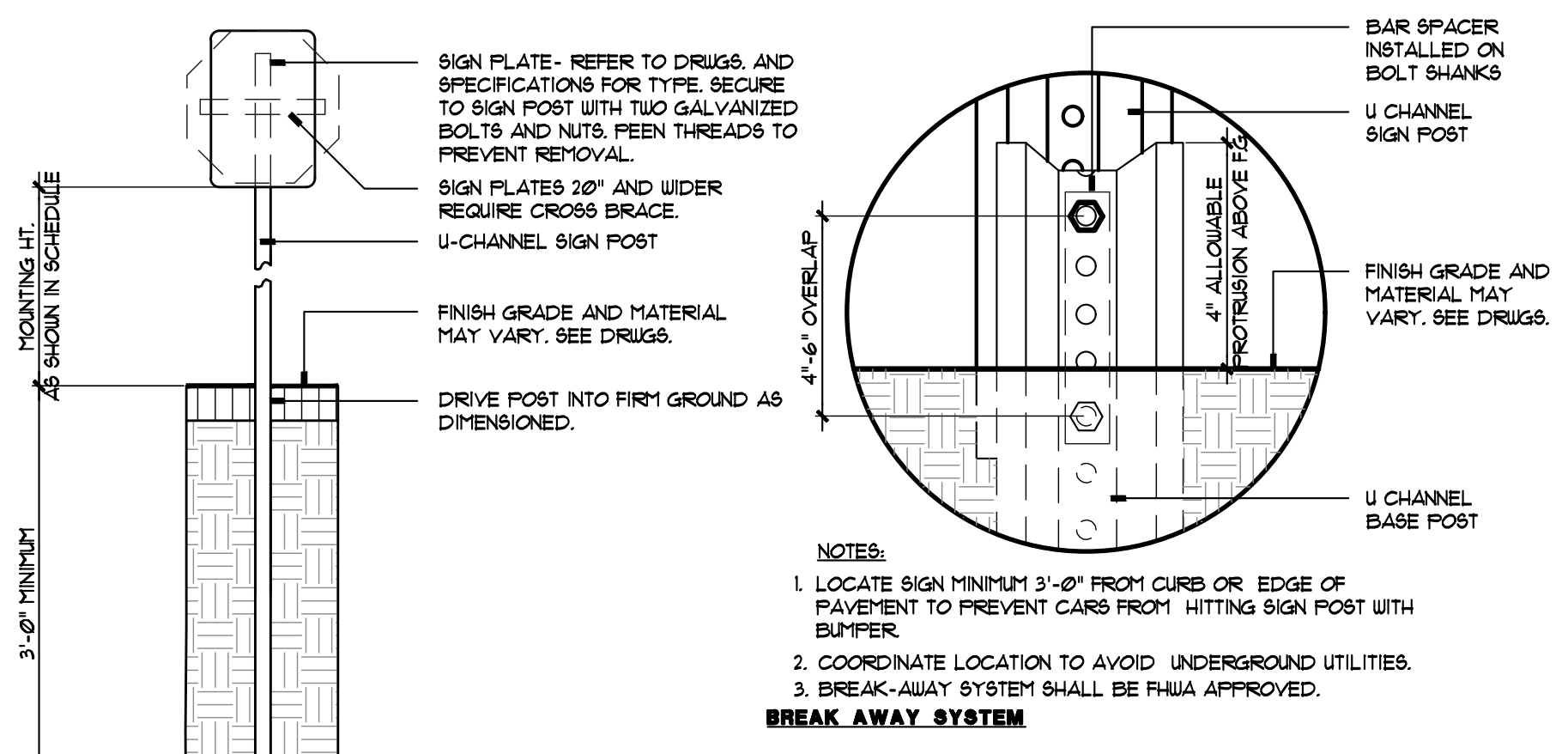
MOUNTING HT. SHOWN IN SCHEDULE
SIGN PLATE- REFER TO DRWGS. AND SPECIFICATIONS FOR TYPE. SECURE TO SIGN POST WITH TWO GALVANIZED BOLTS AND NUTS. PEEN THREADS TO PREVENT REMOVAL.
SIGN PLATES 20" AND WIDER REQUIRE CROSS BRACE.
U-CHANNEL SIGN POST
FINISH GRADE AND MATERIAL MAY VARY. SEE DRWGS.
DRIVE POST INTO FIRM GROUND AS DIMENSIONED.
SECTION
BAR SPACER INSTALLED ON BOLT SHANKS
U CHANNEL SIGN POST
4'-6" OVERLAP
4" ALLOWABLE PROTRUSION ABOVE
FINISH GRADE AND MATERIAL MAY VARY. SEE DRWGS.
U CHANNEL BASE POST

NOTES:
1. LOCATE SIGN MINIMUM 3'-0" FROM CURB OR EDGE OF PAVEMENT TO PREVENT CARS FROM HITTING SIGN POST WITH BUMPER.
2. COORDINATE LOCATION TO AVOID UNDERGROUND UTILITIES.
3. BREAK-AWAY SYSTEM SHALL BE FHWA APPROVED.

BREAK AWAY SYSTEM

SIGN SCHEDULE		MOUNTING HEIGHT**
A	STOP	5'-0"
B	NO PARKING ANYTIME	5'-0"
C	RESERVE PARKING	7'-0"
D	ELECTRIC VEHICLE ONLY	7'-0"
E	VISITOR PARKING ONLY	7'-0"
F	EMPLOYEE PARKING ONLY	7'-0"

**ALL DIMENSIONS ARE TO BOTTOM OF SIGN PLATE.

7 / C106 TRAFFIC SIGN
SECTION • NOT TO SCALE 3230-003A
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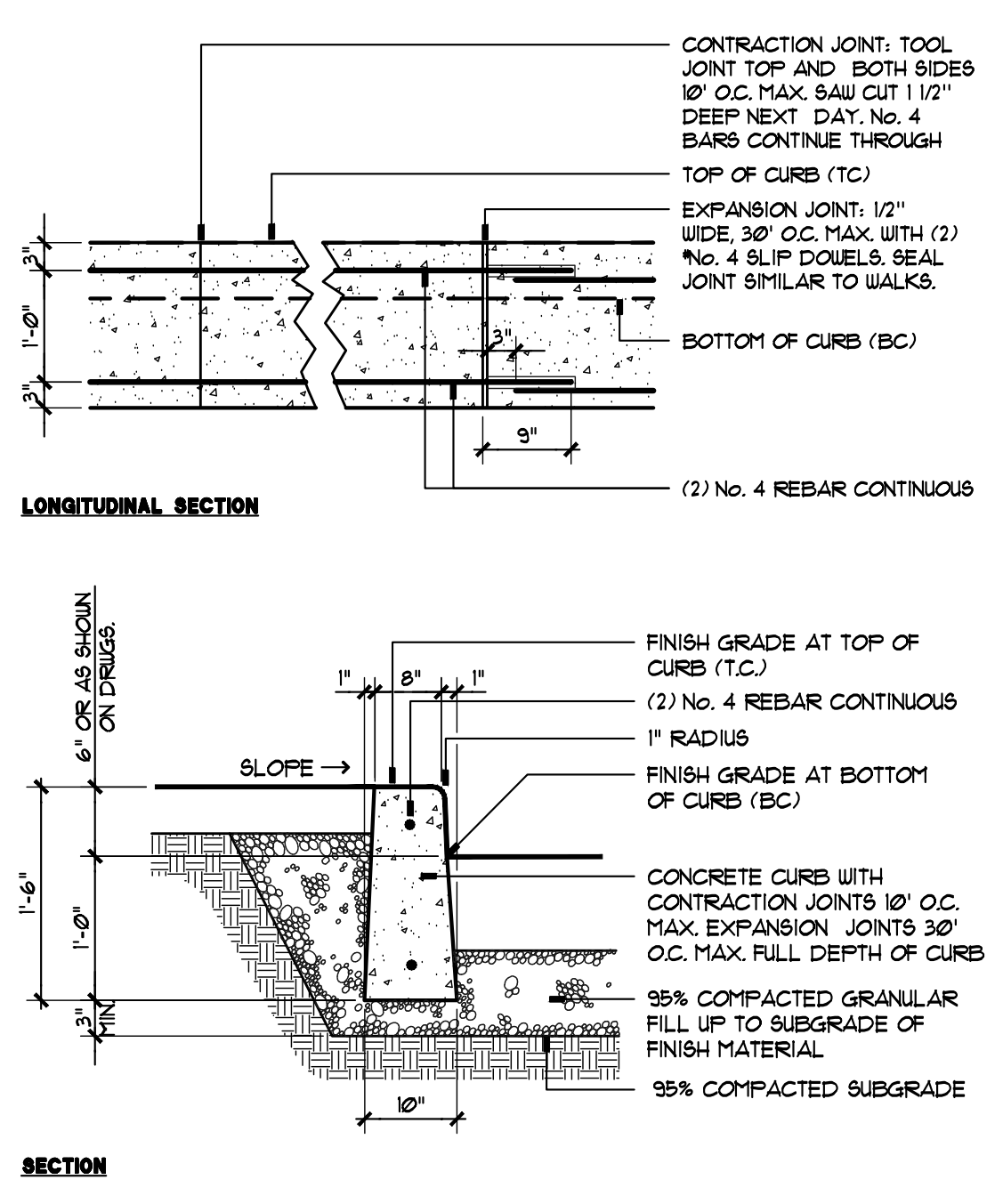
CONTRACTION JOINT: TOOL JOINT TOP AND BOTH SIDES 10' O.C. MAX. SAW CUT 1/2" DEEP NEXT DAY. No. 4 BARS CONTINUE THROUGH
TOP OF CURB (TC)
EXPANSION JOINT: 1/2" WIDE, 30' O.C. MAX. WITH (2) No. 4 SLIP DOWELS. SEAL JOINT SIMILAR TO WALKS.
BOTTOM OF CURB (BC)
(2) No. 4 REBAR CONTINUOUS
LONGITUDINAL SECTION
FINISH GRADE AT TOP OF CURB (TC)
(2) No. 4 REBAR CONTINUOUS
1" RADIUS
FINISH GRADE AT BOTTOM OF CURB (BC)
SLOPE
CONCRETE CURB WITH CONTRACTION JOINTS 10' O.C. MAX. EXPANSION JOINTS 30' O.C. MAX. FULL DEPTH OF CURB
95% COMPACTED GRANULAR FILL UP TO SUBGRADE OF FINISH MATERIAL
95% COMPACTED SUBGRADE
1'-6"
1'-0"
3" MIN
10"
SECTION

6 / C106 NYSDOT - SLIP FORMED CONCRETE CURB
SECTION • NOT TO SCALE 3213-008
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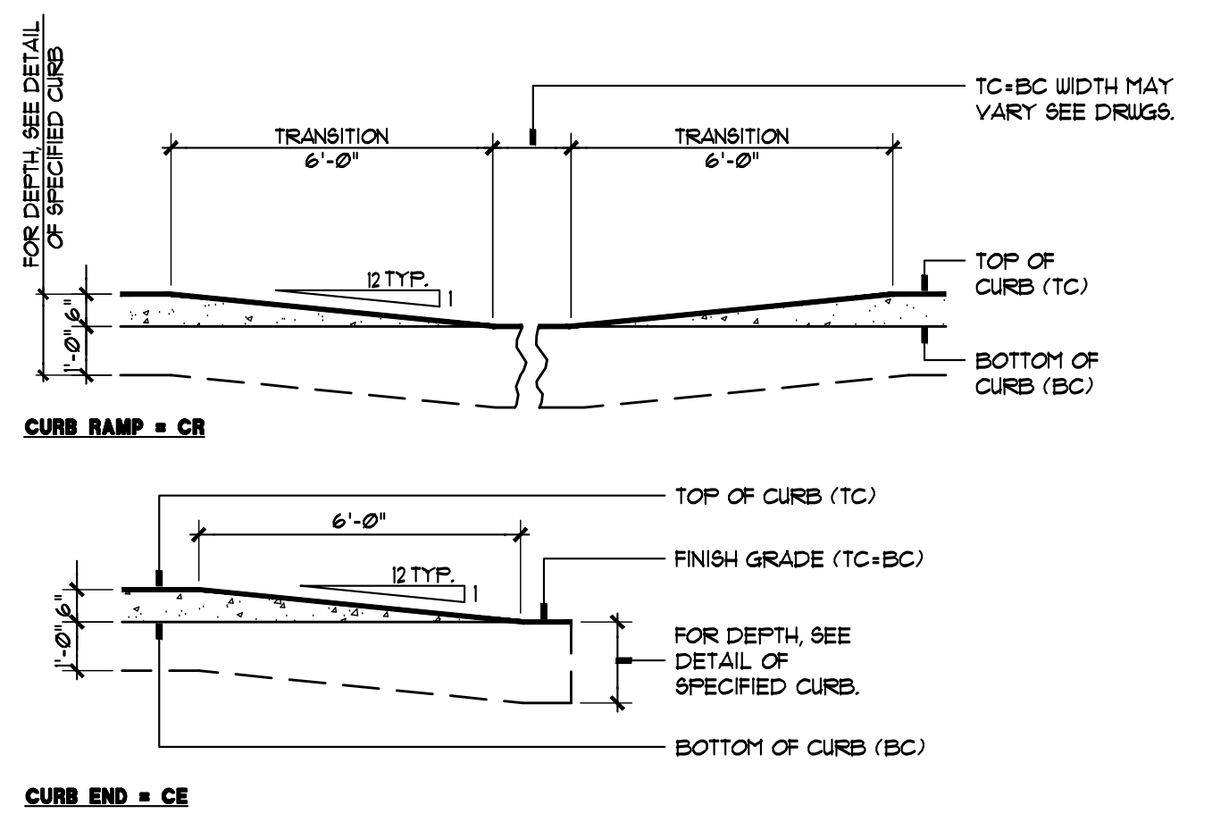
TRANSITION 6'-0"
TRANSITION 6'-0"
12 TYP.
TC+BC WIDTH MAY VARY SEE DRWGS.
TOP OF CURB (TC)
BOTTOM OF CURB (BC)
CURB RAMP = CR
TOP OF CURB (TC)
6'-0"
12 TYP.
FINISH GRADE (TC=BC)
FOR DEPTH, SEE DETAIL OF SPECIFIED CURB.
BOTTOM OF CURB (BC)
CURB END = CE

5 / C106 CURB RAMP AND CURB ENDING = CR/CE
SECTION • NOT TO SCALE 3213-002
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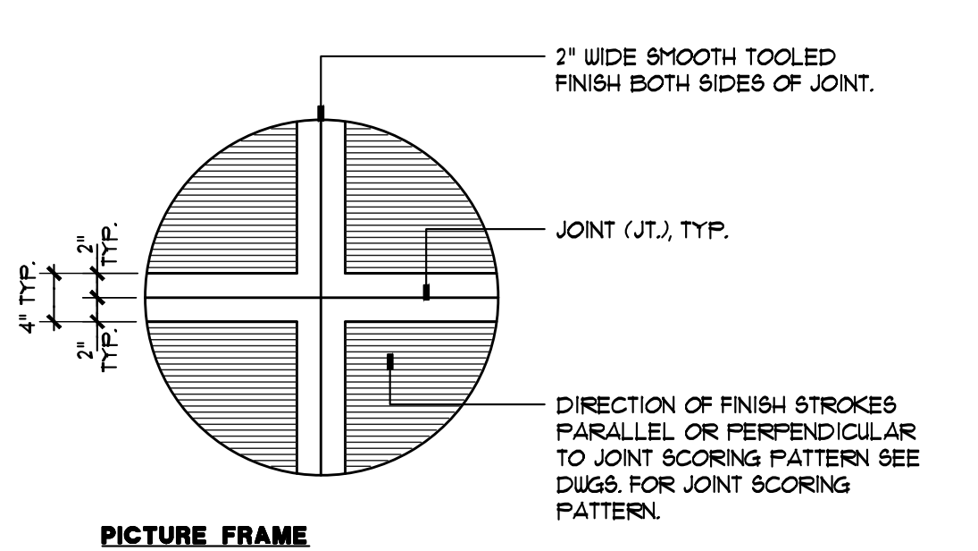
2" WIDE SMOOTH TOOLED FINISH BOTH SIDES OF JOINT.
JOINT (JT.), TYP.
4" TYP.
2" TYP.
DIRECTION OF FINISH STROKES PARALLEL OR PERPENDICULAR TO JOINT SCORING PATTERN SEE DWGS. FOR JOINT SCORING PATTERN.
PICTURE FRAME

4 / C106 CONCRETE WALK AND FINISHED PAD
SECTION • NOT TO SCALE 3213-201
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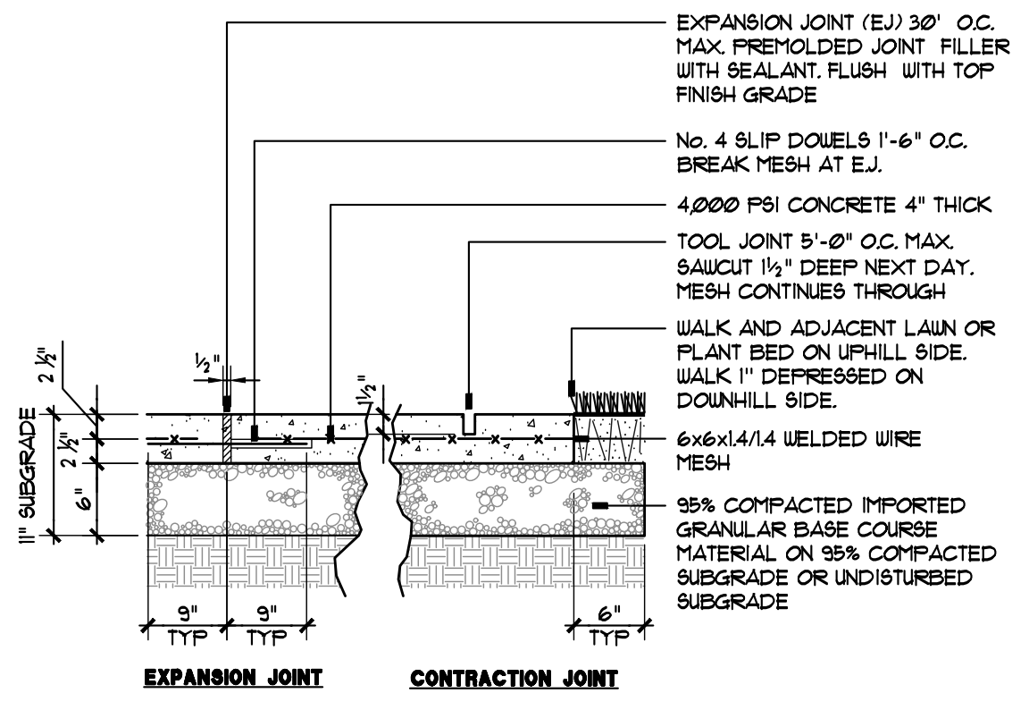
EXPANSION JOINT (EJ) 30' O.C. MAX. PREMOLDED JOINT FILLER WITH SEALANT. FLUSH WITH TOP FINISH GRADE
No. 4 SLIP DOWELS 1'-6" O.C. BREAK MESH AT E.J.
4,000 PSI CONCRETE 4" THICK
TOOL JOINT 5'-0" O.C. MAX. SAWCUT 1" DEEP NEXT DAY. MESH CONTINUES THROUGH
WALK AND ADJACENT LAWN OR PLANT BED ON UPHILL SIDE. WALK 1" DEPRESSED ON DOWNHILL SIDE.
6x6x1.4/1.4 WELDED WIRE MESH
95% COMPACTED IMPORTED GRANULAR BASE COURSE MATERIAL ON 95% COMPACTED SUBGRADE OR UNDISTURBED SUBGRADE
9" TYP
6" TYP
EXPANSION JOINT
CONTRACTION JOINT

3 / C106 CONCRETE WALK - STANDARD 5"
SECTION • NOT TO SCALE 3213-202
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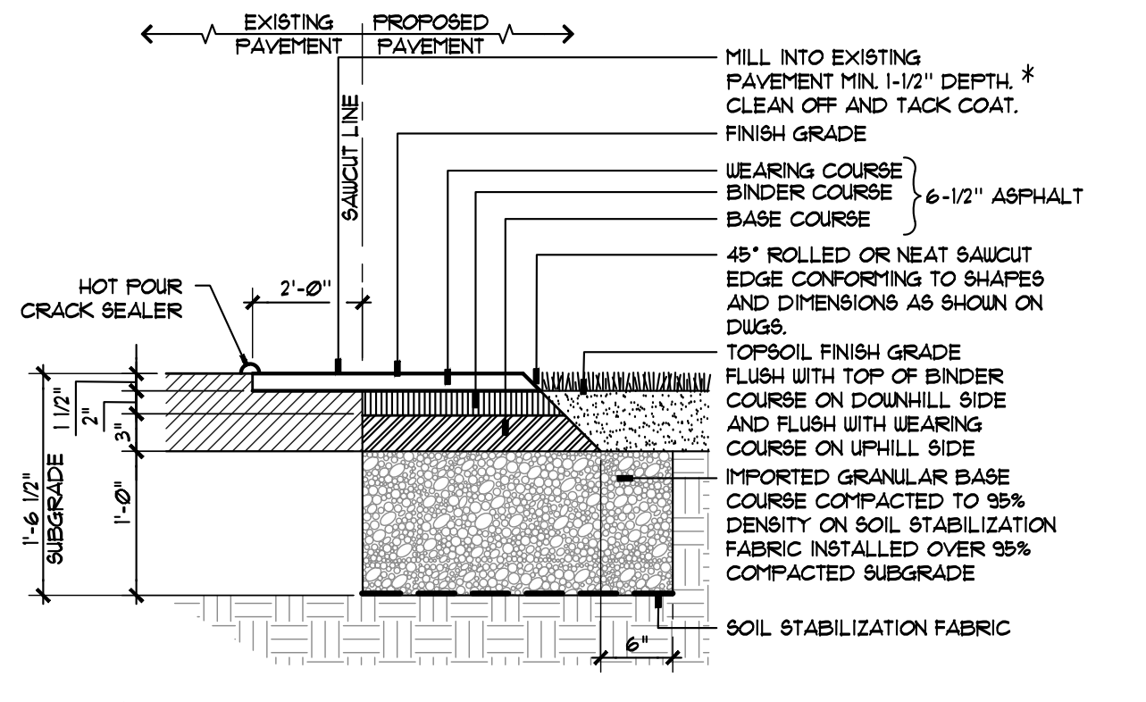
EXISTING PAVEMENT
PROPOSED PAVEMENT
SAWCUT LINE
HOT POUR CRACK SEALER
MILL INTO EXISTING PAVEMENT MIN. 1-1/2" DEPTH. CLEAN OFF AND TACK COAT.*
FINISH GRADE
WEARING COURSE
BINDER COURSE
4-1/2" ASPHALT
45° ROLLED OR NEAT SAWCUT EDGE CONFORMING TO SHAPES AND DIMENSIONS AS SHOWN ON DWGS.
TOPSOIL FINISH GRADE FLUSH WITH TOP OF BINDER COURSE ON DOWNHILL SIDE AND FLUSH WITH WEARING COURSE ON UPHILL SIDE
IMPORTED GRANULAR BASE COURSE COMPACTED TO 95% DENSITY ON SOIL STABILIZATION FABRIC INSTALLED OVER 95% COMPACTED SUBGRADE
SOIL STABILIZATION FABRIC
1'-6 1/2" SUBGRADE
1'-0"
6"

* OVERLAPPING OF JOINTS BETWEEN ASPHALT COURSES IS REQUIRED

2 / C106 HEAVY DUTY ASPHALT PAVEMENT = HDA
SECTION • NOT TO SCALE 3212-001C
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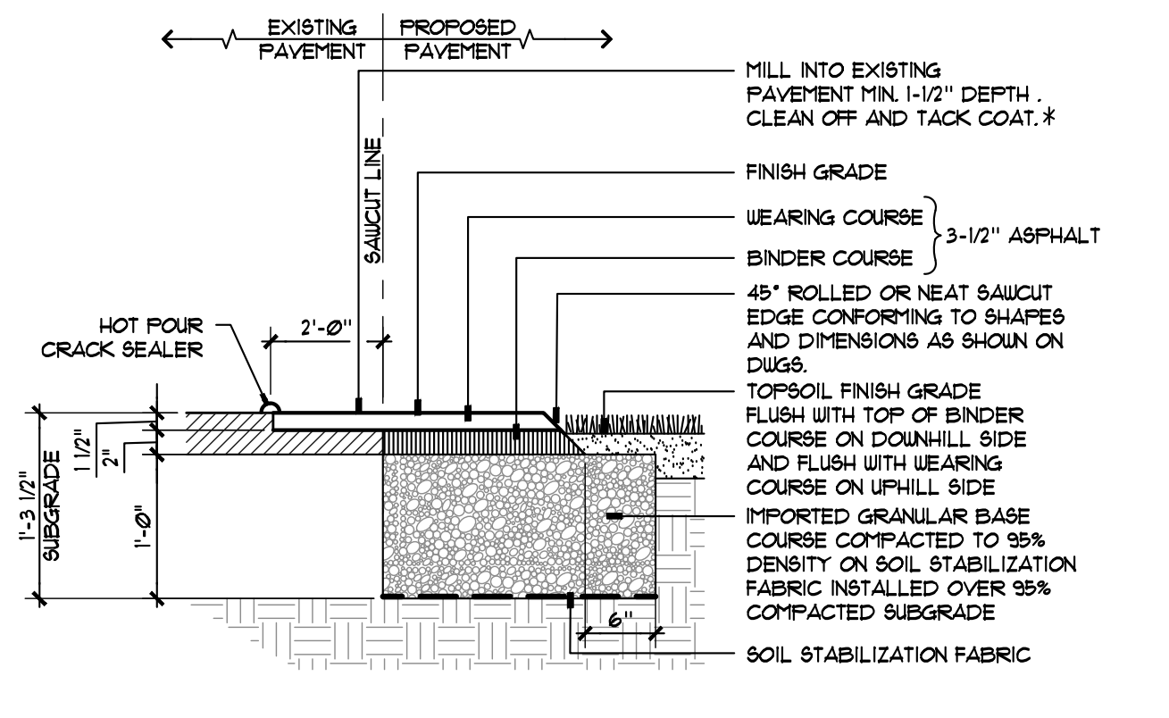
EXISTING PAVEMENT
PROPOSED PAVEMENT
SAWCUT LINE
HOT POUR CRACK SEALER
MILL INTO EXISTING PAVEMENT MIN. 1-1/2" DEPTH. CLEAN OFF AND TACK COAT.*
FINISH GRADE
WEARING COURSE
BINDER COURSE
3-1/2" ASPHALT
45° ROLLED OR NEAT SAWCUT EDGE CONFORMING TO SHAPES AND DIMENSIONS AS SHOWN ON DWGS.
TOPSOIL FINISH GRADE FLUSH WITH TOP OF BINDER COURSE ON DOWNHILL SIDE AND FLUSH WITH WEARING COURSE ON UPHILL SIDE
IMPORTED GRANULAR BASE COURSE COMPACTED TO 95% DENSITY ON SOIL STABILIZATION FABRIC INSTALLED OVER 95% COMPACTED SUBGRADE
SOIL STABILIZATION FABRIC
1'-3 1/2" SUBGRADE
1'-0"
6"

* OVERLAPPING OF JOINTS BETWEEN ASPHALT COURSES IS REQUIRED.

1 / C106 MEDIUM DUTY ASPHALT PAVEMENT = MDA
SECTION • NOT TO SCALE 3212-001B
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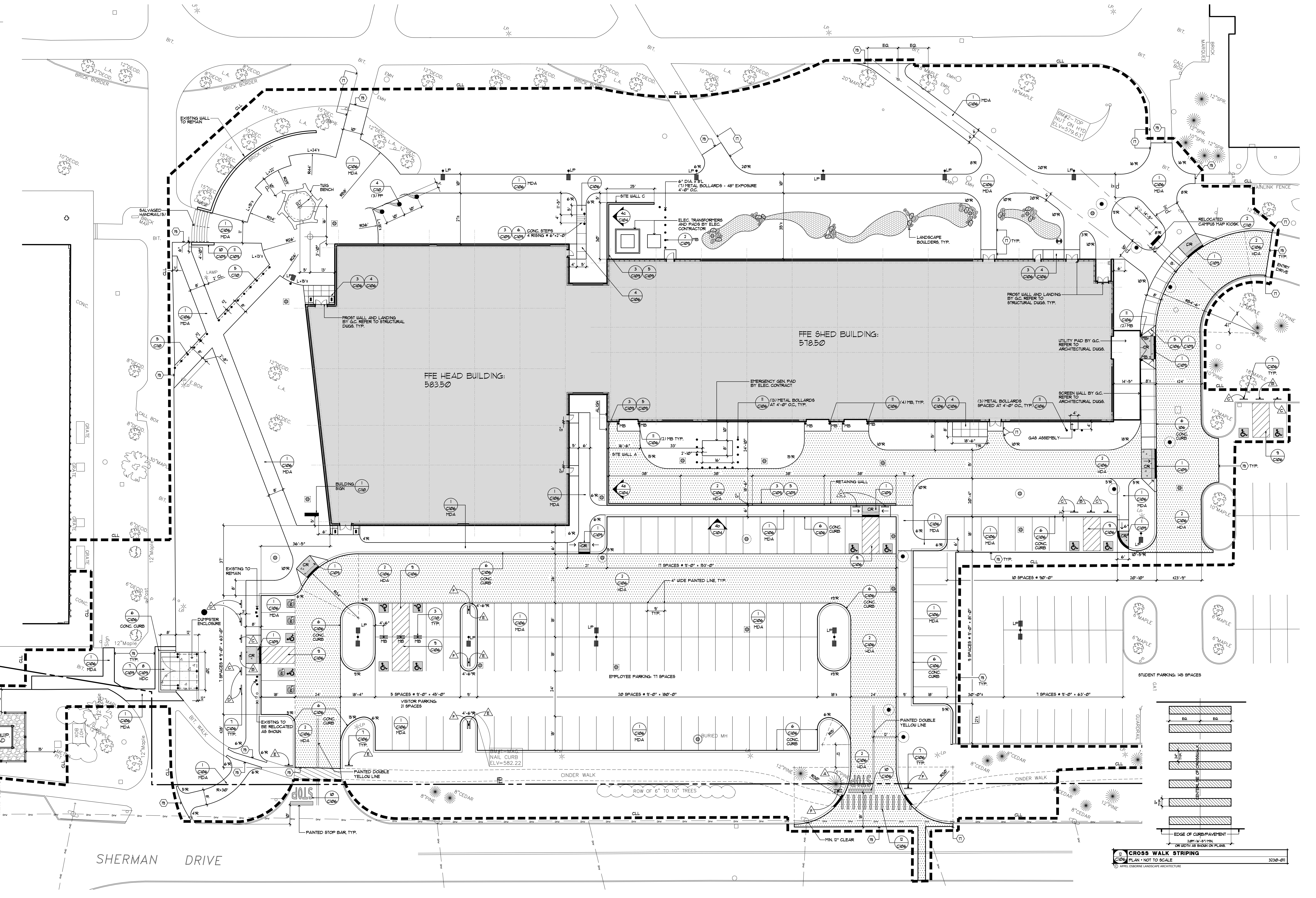
FFE HEAD BUILDING: 583.50
FFE SHED BUILDING: 578.50
SHERMAN DRIVE
EMPLOYEE PARKING: 71 SPACES
VISITOR PARKING: 21 SPACES
STUDENT PARKING: 149 SPACES
NEW COOLING TOWER ENCLOSURE
EQUIP. PAD
GRAVEL PAVEMENT
BUS SHELTER
Campus Map Sign
DUMPSTER ENCLOSURE
LANDSCAPE BOULDERS, TYP.
ELEC. TRANSFORMERS AND PADS BY ELEC. CONTRACTOR
FROST WALL AND LANDING BY GC. REFER TO STRUCTURAL DWGS. TYP.
UTILITY PAD BY G.C. REFER TO ARCHITECTURAL DWGS.
EMERGENCY GEN. PAD BY ELEC. CONTRACT
SCREEN WALL BY G.C. REFER TO ARCHITECTURAL DWGS.
RELOCATED CAMPUS MAP KIOSK
BUILDING SIGN
RETAINING WALL
PAINTED DOUBLE YELLOW LINE
PAINTED STOP BAR, TYP.
ROW OF 6" TO 10" TREES
CINDER WALK
EXISTING TO REMAIN
4" WIDE PAINTED LINE, TYP.
11 SPACES = 9'-0" = 99'-0"
10 SPACES = 90'-0"
20 SPACES = 9'-0" = 180'-0"
5 SPACES = 9'-0" = 45'-0"
7 SPACES = 9'-0" = 63'-0"
MIN. 5' CLEAR
STOP
MDA
HDA
CONC. CURB

12 / C106 CROSS WALK STRIPING
PLAN • NOT TO SCALE 3230-011
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0 10 20 40 60
SCALE IN FEET

MVCC - SITE LAYOUT PLAN

WORK AREA A

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Registration current through: 8/31/2026

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1	9/23/25	REBID & CONSTRUCTION

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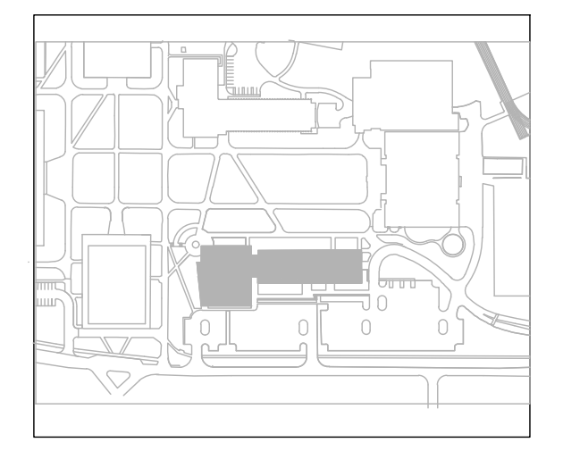


PLAN NORTH

PROJECT:
S & T BUILDING REPLACEMENT

DRAWING TITLE:
SITE LAYOUT PLAN

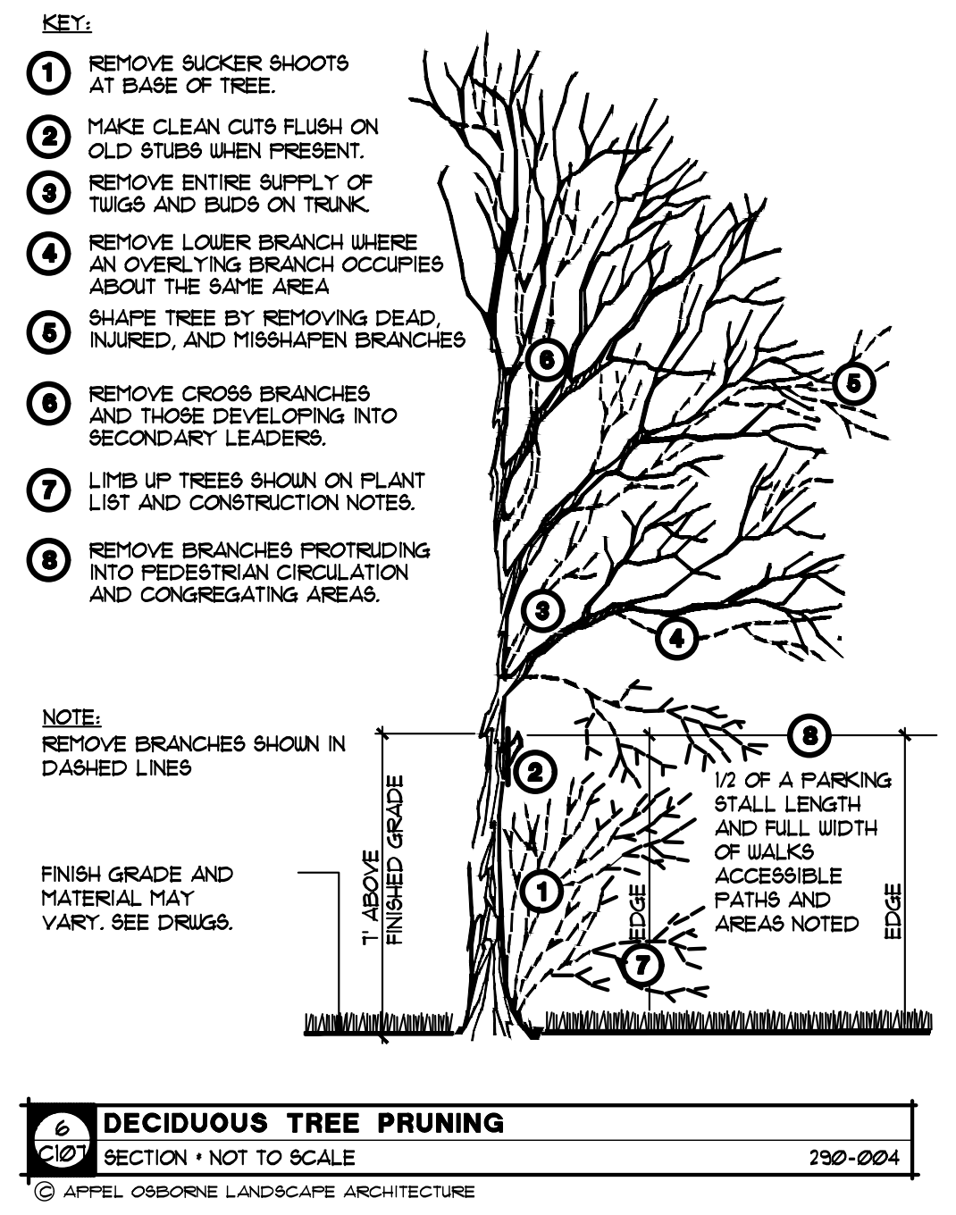
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-106

PLANT LIST - MVCC SCIENCE AND TECHNOLOGY BUILDING

KEY	BOTANICAL NAME	COMMON NAME	QTY.	ROOT & SIZE **	SPACING
AA	AMELANCHIER ARBOREA	SERVICEBERRY	9	No. 3 CONT.	AS SHOWN
AC	ABIES CONCOLOR	BLUE SPRUCE	4	6'-7' HT.	B&B
AF	ACER FREEMANII	FREEMAN MAPLE	8	2-2½" CAL.	AS SHOWN
AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	17	No. 3 CONT.	5' O.C.
AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE 'OCTOBER GLORY'	7	2-2½" CAL.	AS SHOWN
BN	BETULA NIGRA 'HERITAGE'	RIVER BIRCH	9	2-2½" CAL.	AS SHOWN
CO	CELTIS OCCIDENTALIS	HACKBERRY	11	2-2½" CAL.	AS SHOWN
CP	CHAMAECYPARIS PISIFERA	FALSE CYPRESS SOFT SERVE	54	5'-6' HT.	10' O.C.
CS	CORNUS SERICEA	RED TWIG OSIER DOGWOOD	55	#5 CONT.	30" O.C.
FI	FORSYTHIA x INTERMEDIA 'MAGICAL'	GOLD FORSYTHIA	38	No. 5 CONT.	5' O.C.
JH	JUNIPERUS HORIZONTALIS 'HUGHES'	HUGHES JUNIPER	33	No. 5 CONT.	5' O.C. OR AS SHOWN
PA	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	202	#2 CONT.	30" O.C.
PG	PICEA GLAUCA 'CONICA'	WHITE SPRUCE	7	5'-6' HT.	AS SHOWN
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	35	No. 2 CONT.	30" O.C.
RA	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC	44	No. 5 CONT.	5' O.C. OR AS SHOWN
QB	QUERCUS BICOLOR	SWAMP WHITE OAK	6	2-2½" CAL.	AS SHOWN

NOTES:
1. PROVIDE VARIETY NOTED, DO NOT SUBSTITUTE WITH SPECIES UNLESS APPROVED BY ARCHITECT.
2. PLANTS TO BE BALLED AND BURLAPPED UNLESS NOTED OTHERWISE,
3. FINAL PLACEMENT OF PLANTS TO BE FIELD DIRECTED BY ARCHITECT.
4. ALL TREES AND SHRUBS NOTED IN THE PLANT LIST SHALL BE GUARANTEED FOR TWO (2) YEARS.
5. NOTIFY THE ARCHITECT IN WRITING WHEN ANY OF THE PROPOSED PLANTS ARE EITHER SENSITIVE TO FALL PLANTING OR ARE PRONE TO DEER DAMAGE IN THE EXPERIENCE OF THE CONTRACTOR.


KEY:
① REMOVE SUCKER SHOOTS AT BASE OF TREE.
② MAKE CLEAN CUTS FLUSH ON OLD STUBS WHEN PRESENT.
③ REMOVE ENTIRE SUPPLY OF TWIGS AND BUDS ON TRUNK.
④ REMOVE LOWER BRANCH WHERE AN OVERLYING BRANCH OCCUPIES ABOUT THE SAME AREA
⑤ SHAPE TREE BY REMOVING DEAD, INJURED, AND MISSHAPEN BRANCHES
⑥ REMOVE CROSS BRANCHES AND THOSE DEVELOPING INTO SECONDARY LEADERS.
⑦ LIMB UP TREES SHOWN ON PLANT LIST AND CONSTRUCTION NOTES.
⑧ REMOVE BRANCHES PROTRUDING INTO PEDESTRIAN CIRCULATION AND CONGREGATING AREAS.
NOTE:
REMOVE BRANCHES SHOWN IN DASHED LINES
FINISH GRADE AND MATERIAL MAY VARY. SEE DRWGS.
7' ABOVE FINISHED GRADE
EDGE
1/2 OF A PARKING STALL LENGTH AND FULL WIDTH OF WALKS ACCESSIBLE PATHS AND AREAS NOTED
EDGE

6 / C107 DECIDUOUS TREE PRUNING
SECTION • NOT TO SCALE 290-004
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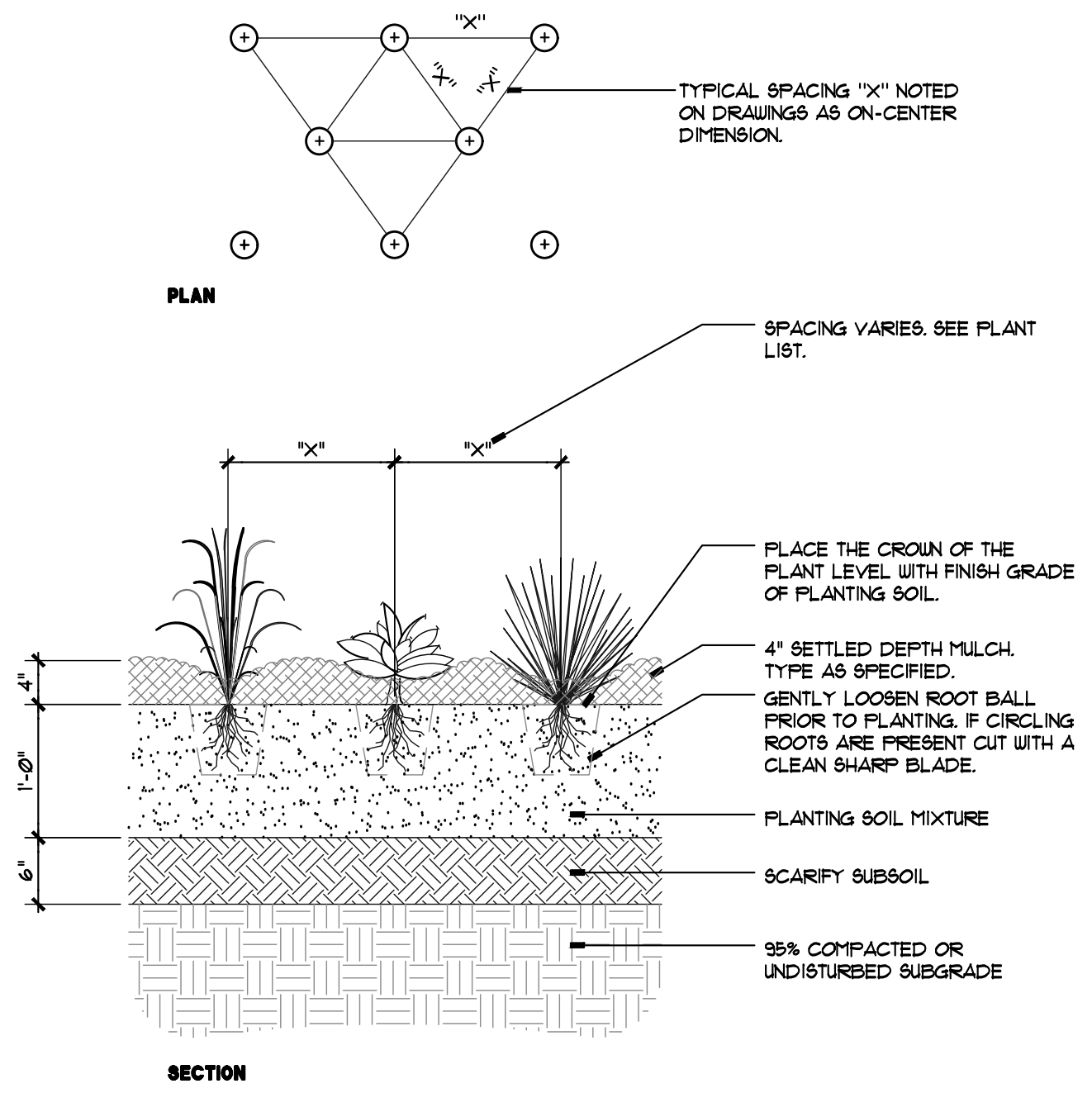
"X"
"X"
"X"
TYPICAL SPACING "X" NOTED ON DRAWINGS AS ON-CENTER DIMENSION.
PLAN
SPACING VARIES. SEE PLANT LIST.
"X"
"X"
PLACE THE CROWN OF THE PLANT LEVEL WITH FINISH GRADE OF PLANTING SOIL.
4" SETTLED DEPTH MULCH. TYPE AS SPECIFIED.
GENTLY LOOSEN ROOT BALL PRIOR TO PLANTING. IF CIRCLING ROOTS ARE PRESENT CUT WITH A CLEAN SHARP BLADE.
PLANTING SOIL MIXTURE
SCARIFY SUBSOIL
95% COMPACTED OR UNDISTURBED SUBGRADE
4"
1'-0"
6"
SECTION

NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING GROUPS.

5 / C107 GROUNDCOVER PLANT SPACING
SECTION • NOT TO SCALE 290-010
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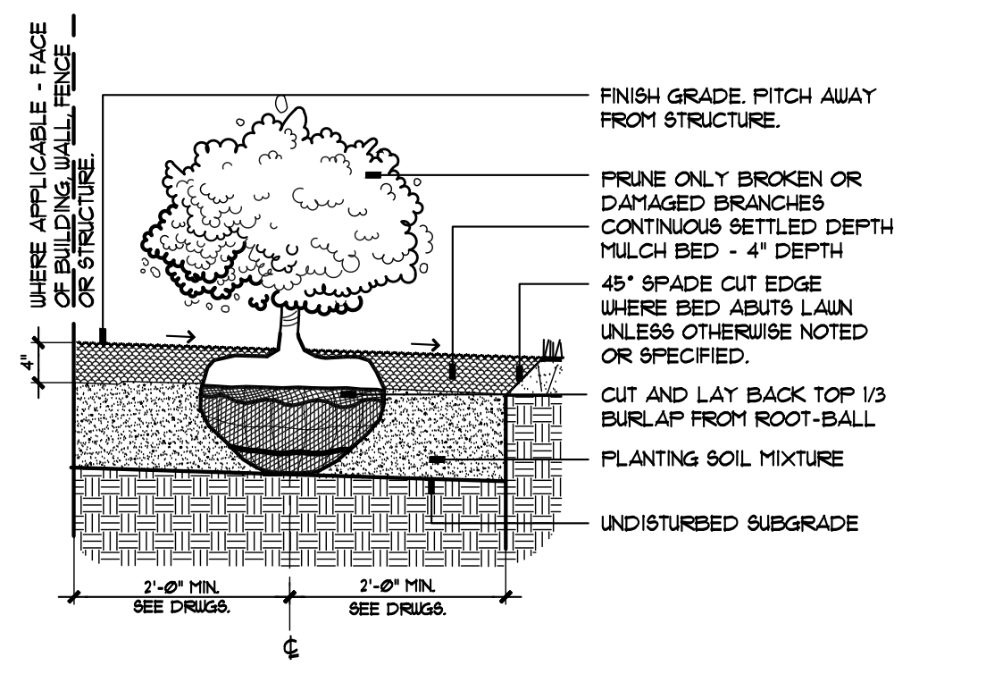
WHERE APPLICABLE - FACE OF BUILDING, WALL, FENCE OR STRUCTURE.
FINISH GRADE. PITCH AWAY FROM STRUCTURE.
PRUNE ONLY BROKEN OR DAMAGED BRANCHES
CONTINUOUS SETTLED DEPTH MULCH BED - 4" DEPTH
45° SPADE CUT EDGE WHERE BED ABUTS LAWN UNLESS OTHERWISE NOTED OR SPECIFIED.
CUT AND LAY BACK TOP 1/3 BURLAP FROM ROOT-BALL
PLANTING SOIL MIXTURE
UNDISTURBED SUBGRADE
4"
2'-0" MIN. SEE DRWGS.
2'-0" MIN. SEE DRWGS.
℄

4 / C107 SHRUB PLANTING
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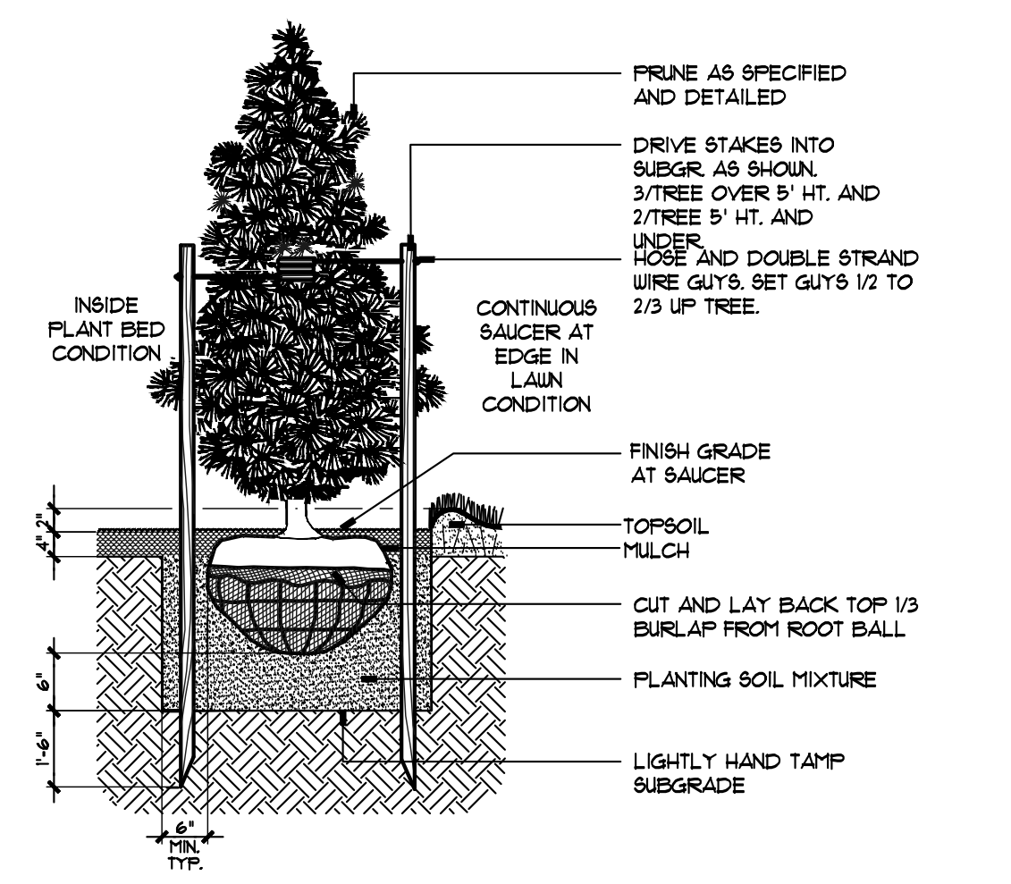
PRUNE AS SPECIFIED AND DETAILED
DRIVE STAKES INTO SUBGR. AS SHOWN. 3/TREE OVER 5' HT. AND 2/TREE 5' HT. AND UNDER.
HOSE AND DOUBLE STRAND WIRE GUYS. SET GUYS 1/2 TO 2/3 UP TREE.
INSIDE PLANT BED CONDITION
CONTINUOUS SAUCER AT EDGE IN LAWN CONDITION
FINISH GRADE AT SAUCER
TOPSOIL
MULCH
CUT AND LAY BACK TOP 1/3 BURLAP FROM ROOT BALL
PLANTING SOIL MIXTURE
LIGHTLY HAND TAMP SUBGRADE
4"
2"
6"
1'-6"
6" MIN. TYP.

3 / C107 EVERGREEN TREE PLANTING
SECTION • NOT TO SCALE 290-003
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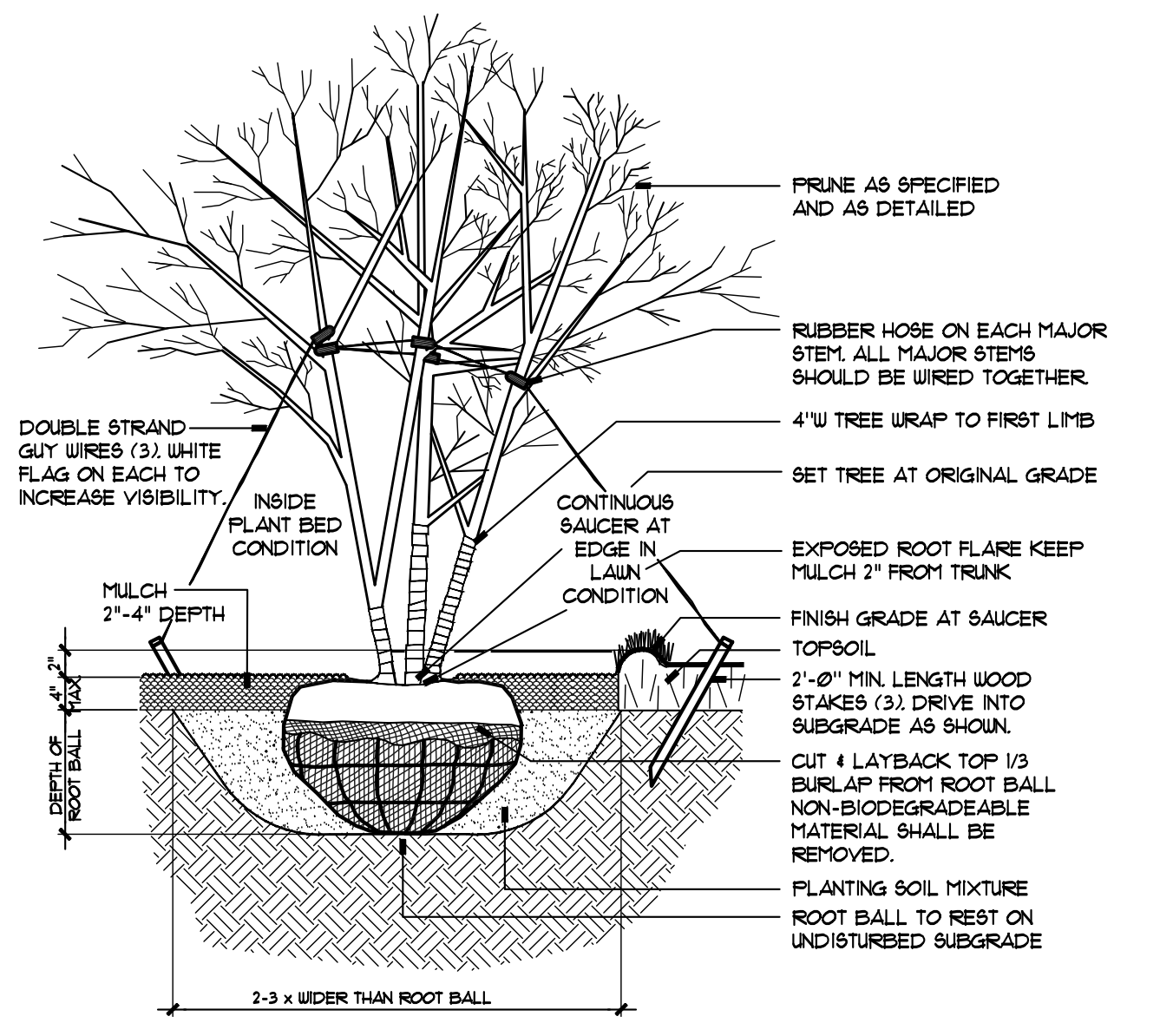
PRUNE AS SPECIFIED AND AS DETAILED
RUBBER HOSE ON EACH MAJOR STEM. ALL MAJOR STEMS SHOULD BE WIRED TOGETHER
4"W TREE WRAP TO FIRST LIMB
SET TREE AT ORIGINAL GRADE
DOUBLE STRAND GUY WIRES (3). WHITE FLAG ON EACH TO INCREASE VISIBILITY.
INSIDE PLANT BED CONDITION
CONTINUOUS SAUCER AT EDGE IN LAWN CONDITION
EXPOSED ROOT FLARE KEEP MULCH 2" FROM TRUNK
MULCH 2"-4" DEPTH
FINISH GRADE AT SAUCER
TOPSOIL
2'-0" MIN. LENGTH WOOD STAKES (3). DRIVE INTO SUBGRADE AS SHOWN.
CUT & LAYBACK TOP 1/3 BURLAP FROM ROOT BALL NON-BIODEGRADEABLE MATERIAL SHALL BE REMOVED.
PLANTING SOIL MIXTURE
ROOT BALL TO REST ON UNDISTURBED SUBGRADE
DEPTH OF ROOT BALL
4" MAX.
2"
2-3 x WIDER THAN ROOT BALL

2 / C107 DECIDUOUS TREE PLANTING - MULTI-STEM
SECTION • NOT TO SCALE 290-001A
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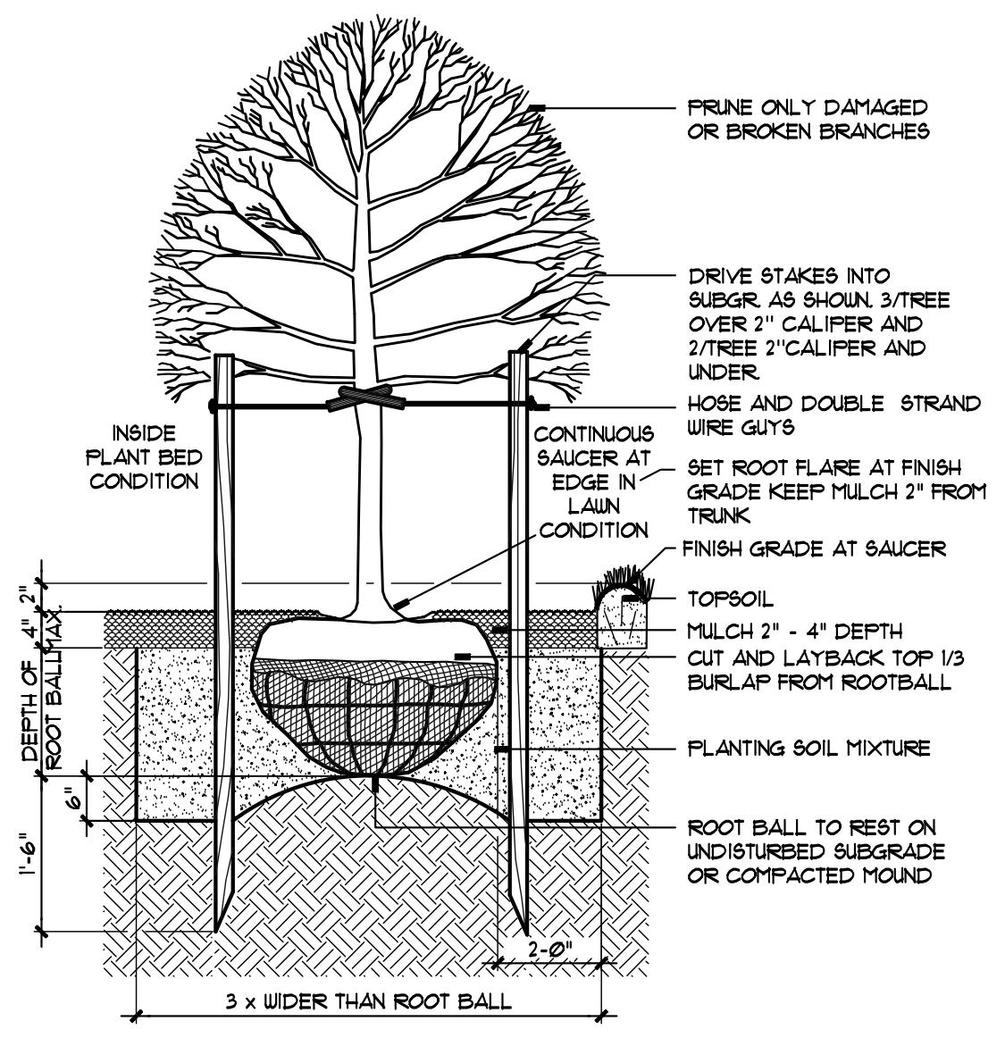
PRUNE ONLY DAMAGED OR BROKEN BRANCHES
DRIVE STAKES INTO SUBGR. AS SHOWN. 3/TREE OVER 2" CALIPER AND 2/TREE 2"CALIPER AND UNDER
HOSE AND DOUBLE STRAND WIRE GUYS
INSIDE PLANT BED CONDITION
CONTINUOUS SAUCER AT EDGE IN LAWN CONDITION
SET ROOT FLARE AT FINISH GRADE KEEP MULCH 2" FROM TRUNK
FINISH GRADE AT SAUCER
TOPSOIL
MULCH 2" - 4" DEPTH
CUT AND LAYBACK TOP 1/3 BURLAP FROM ROOTBALL
PLANTING SOIL MIXTURE
ROOT BALL TO REST ON UNDISTURBED SUBGRADE OR COMPACTED MOUND
DEPTH OF ROOT BALL
4" MAX.
2"
6"
1'-6"
2-0"
3 x WIDER THAN ROOT BALL

1 / C107 DECIDUOUS TREE PLANTING - SINGLE STEM
SECTION • NOT TO SCALE 290-001
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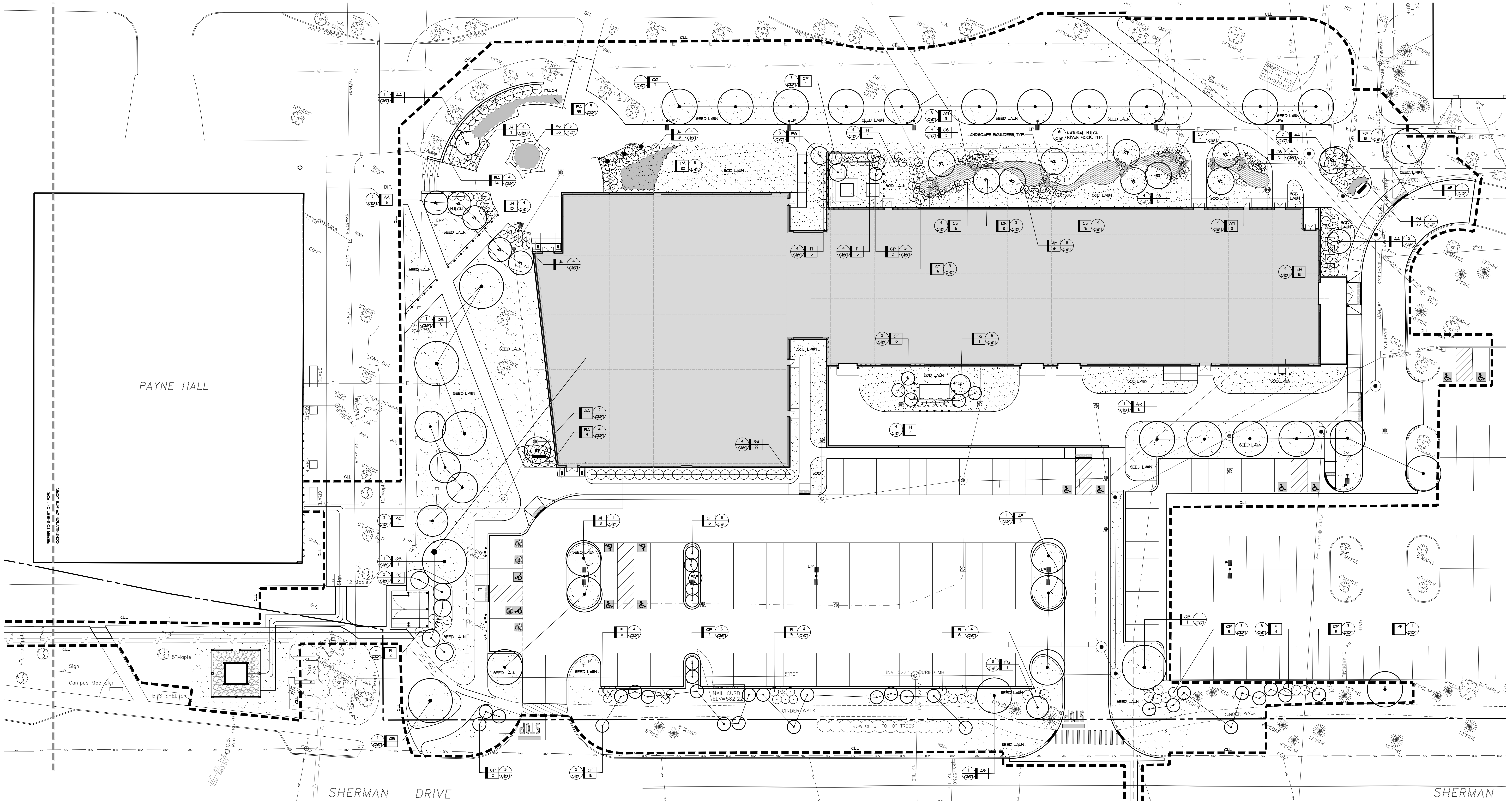

PAYNE HALL
SHERMAN DRIVE
SHERMAN
SEED LAWN
SOD LAWN
MULCH
LANDSCAPE BOULDERS, TYP.
NATURAL MULCH RIVER ROCK, TYP.
ROW OF 6" TO 10" TREES
CINDER WALK
BUS SHELTER
Compus Map Sign
Sign
REFER TO SHEET C-111 FOR CONTINUATION OF SITE WORK
CLL
BRICK BORDER

MVCC - SITE PLANTING PLAN

WORK AREA A

0 10 20 40 60
SCALE IN FEET

MOHAWK VALLEY COMMUNITY COLLEGE
1101 SHERMAN DRIVE
UTICA, NY 13501
(315) 792-5400

ARCHITECT:
MARCH ASSOCIATES
ARCHITECTS & PLANNERS, PC
258 Genesee Street, Suite 300
Utica, New York 13501
315 733 3344

Mitchell Giurgola
Mitchell Giurgola Architects LLP
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

STRUCTURAL ENGINEER:
Interactive Engineering Solutions, PC
1721 Black River Blvd, Suite L-1
Rome, NY 13440
315 339 7855

MEP ENGINEER:
Towne Engineering
18 South Street
Utica, NY 13501
315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
102 West Division Street, Suite 100
Syracuse, NY 13204
315 476 1022

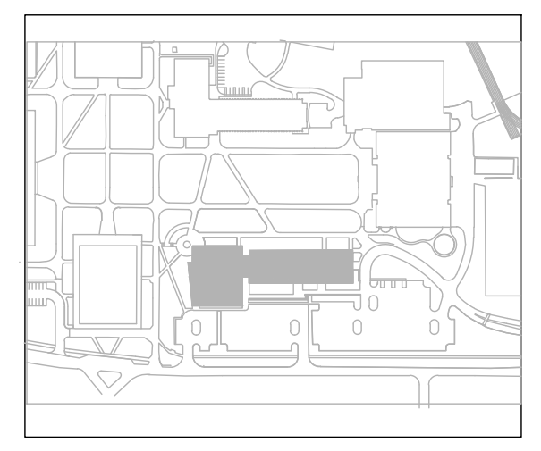
SEAL:
VINCENT PAUL PIETRZAK
001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:

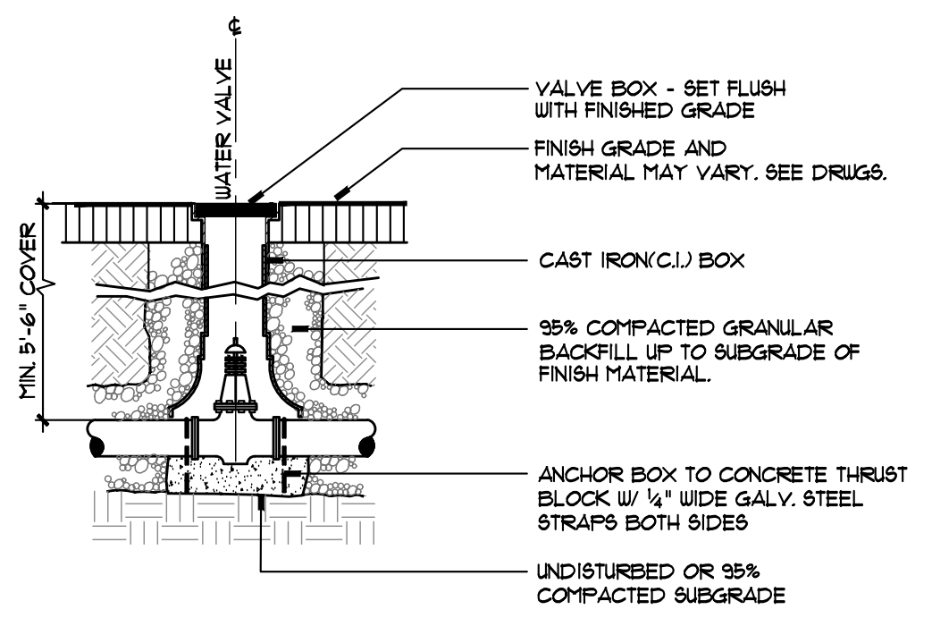


PROJECT:
S & T BUILDING REPLACEMENT

DRAWING TITLE:
SITE PLANTING PLAN

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-107


WATER VALVE
MIN. 5'-6" COVER
VALVE BOX - SET FLUSH WITH FINISHED GRADE
FINISH GRADE AND MATERIAL MAY VARY. SEE DRWGS.
CAST IRON(C.I.) BOX
95% COMPACTED GRANULAR BACKFILL UP TO SUBGRADE OF FINISH MATERIAL.
ANCHOR BOX TO CONCRETE THRUST BLOCK W/ ¼" WIDE GALV. STEEL STRAPS BOTH SIDES
UNDISTURBED OR 95% COMPACTED SUBGRADE

12 / C109 WATER VALVE = WV
SECTION • NOT TO SCALE 255-005
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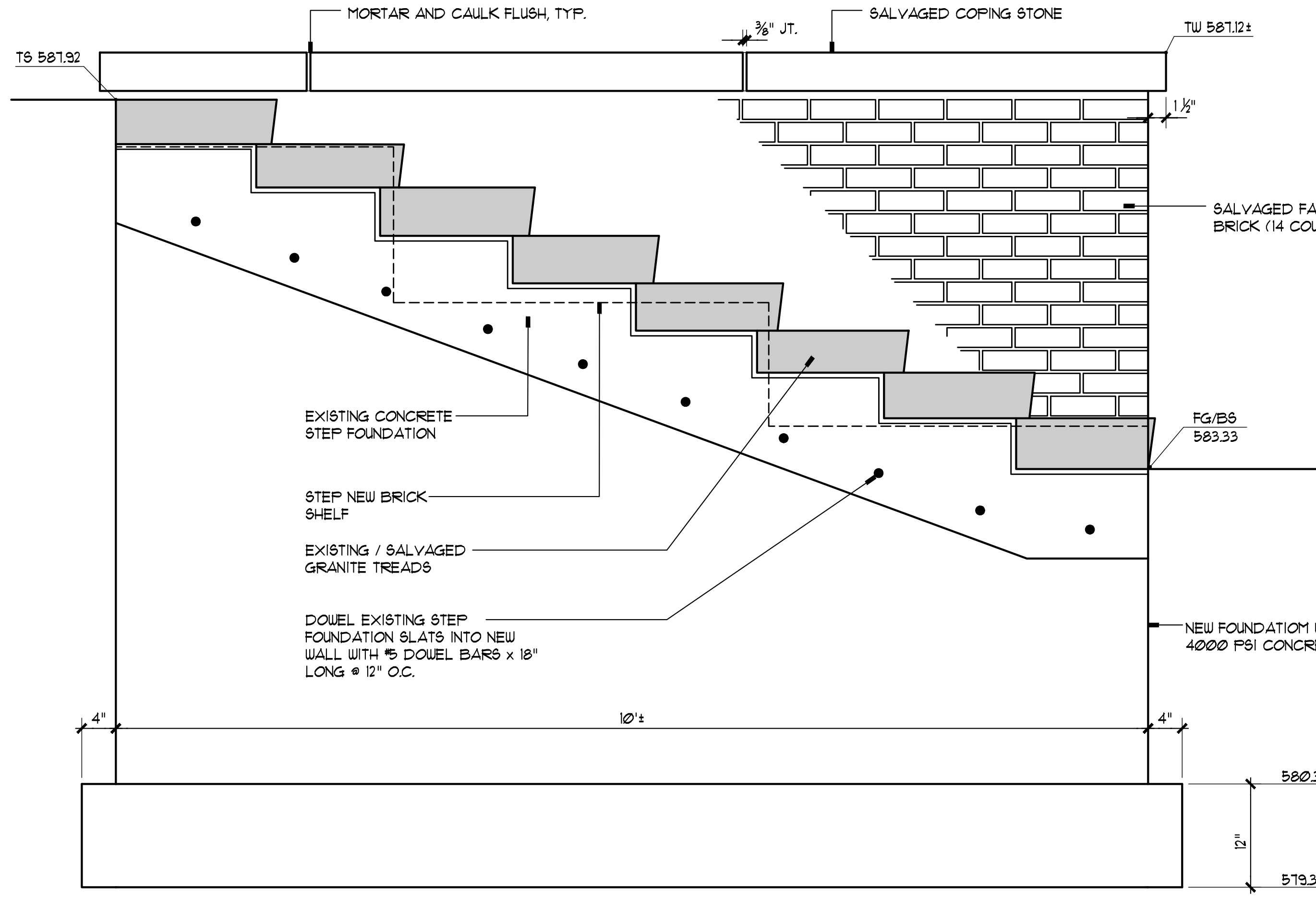
MORTAR AND CAULK FLUSH, TYP.
⅜" JT.
SALVAGED COPING STONE
TS 587.92
TW 587.12±
1½"
SALVAGED FACE BRICK (14 COURSES)
EXISTING CONCRETE STEP FOUNDATION
STEP NEW BRICK SHELF
EXISTING / SALVAGED GRANITE TREADS
DOWEL EXISTING STEP FOUNDATION SLATS INTO NEW WALL WITH #5 DOWEL BARS x 18" LONG @ 12" O.C.
FG/BS 583.33
NEW FOUNDATIOM WALL - 4000 PSI CONCRETE
4"
10'±
4"
580.33
12"
579.33

11 / C109 NEW STAIR END WALL - ELEVATION
1" = 1'-0" NEW STAIR END WALL - ELEVATION
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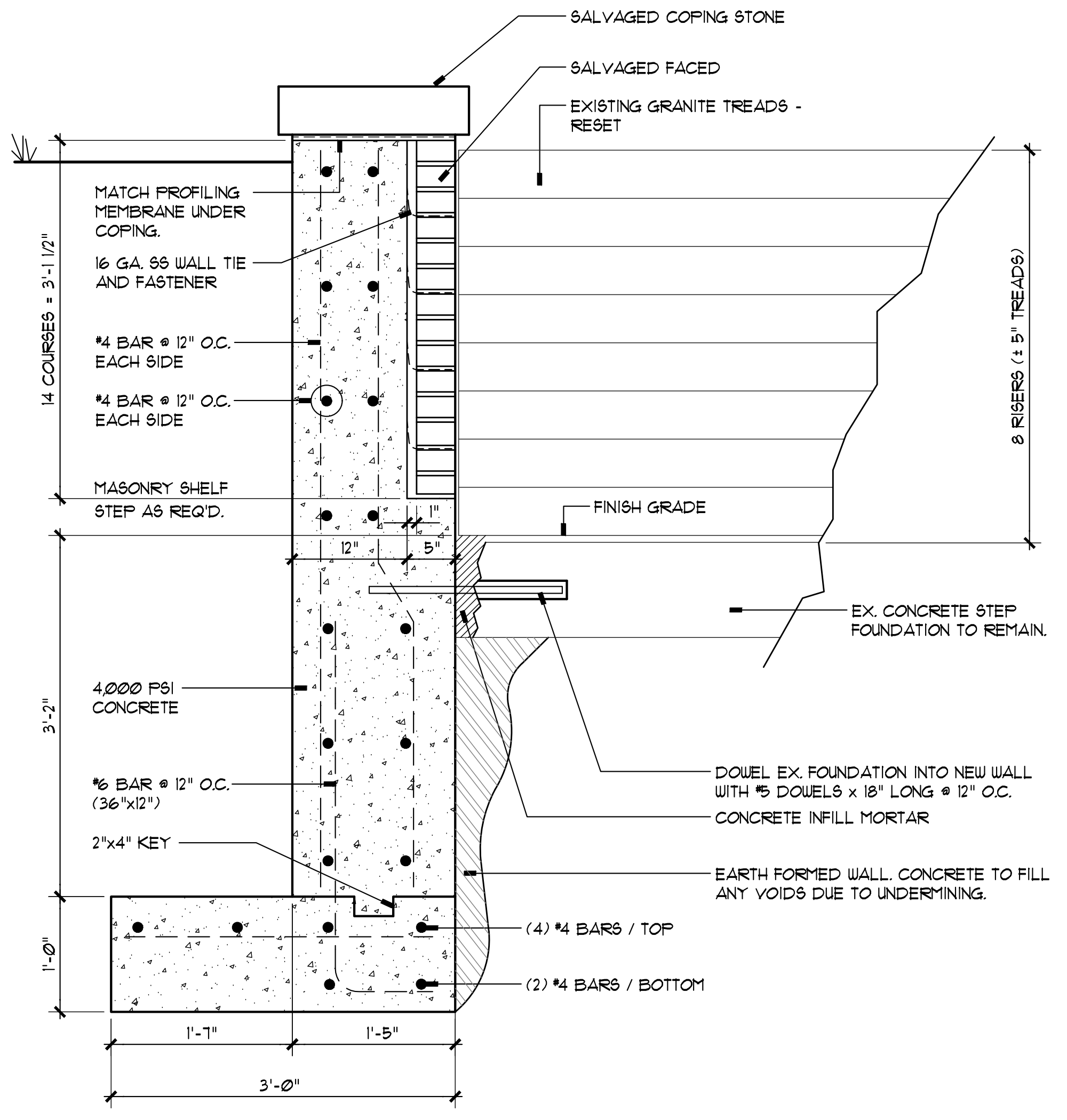
SALVAGED COPING STONE
SALVAGED FACED
EXISTING GRANITE TREADS - RESET
MATCH PROFILING MEMBRANE UNDER COPING.
16 GA. SS WALL TIE AND FASTENER
#4 BAR @ 12" O.C. EACH SIDE
#4 BAR @ 12" O.C. EACH SIDE
MASONRY SHELF STEP AS REQ'D.
14 COURSES = 3'-1 1/2"
8 RISERS (± 5" TREADS)
FINISH GRADE
1"
12"
5"
EX. CONCRETE STEP FOUNDATION TO REMAIN.
4,000 PSI CONCRETE
#6 BAR @ 12" O.C. (36"x12")
2"x4" KEY
3'-2"
DOWEL EX. FOUNDATION INTO NEW WALL WITH #5 DOWELS x 18" LONG @ 12" O.C.
CONCRETE INFILL MORTAR
EARTH FORMED WALL. CONCRETE TO FILL ANY VOIDS DUE TO UNDERMINING.
(4) #4 BARS / TOP
(2) #4 BARS / BOTTOM
1'-0"
1'-7"
1'-5"
3'-0"

10 / C109 NEW STAIR END WALL - SECTION
1" = 1'-0" STAIR END WALL SECTION
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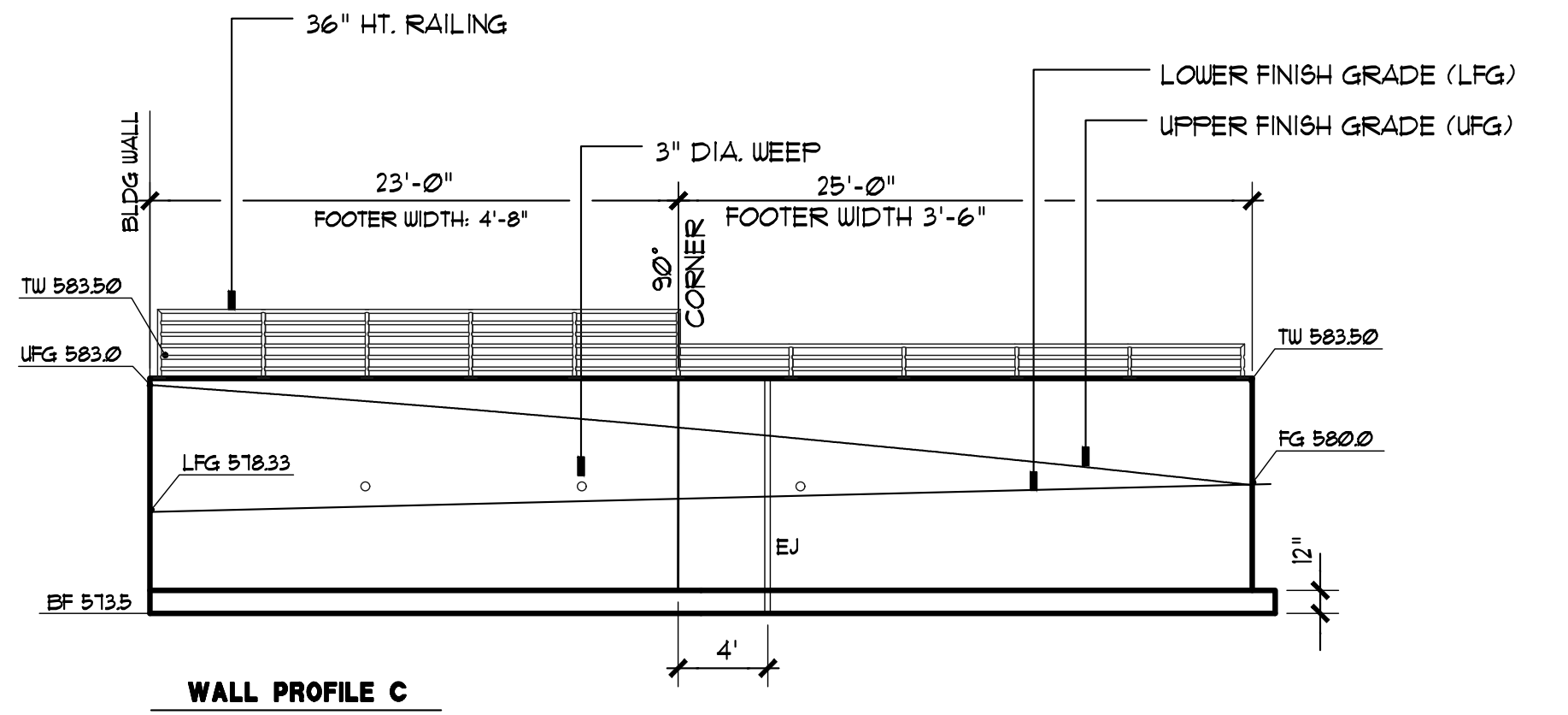
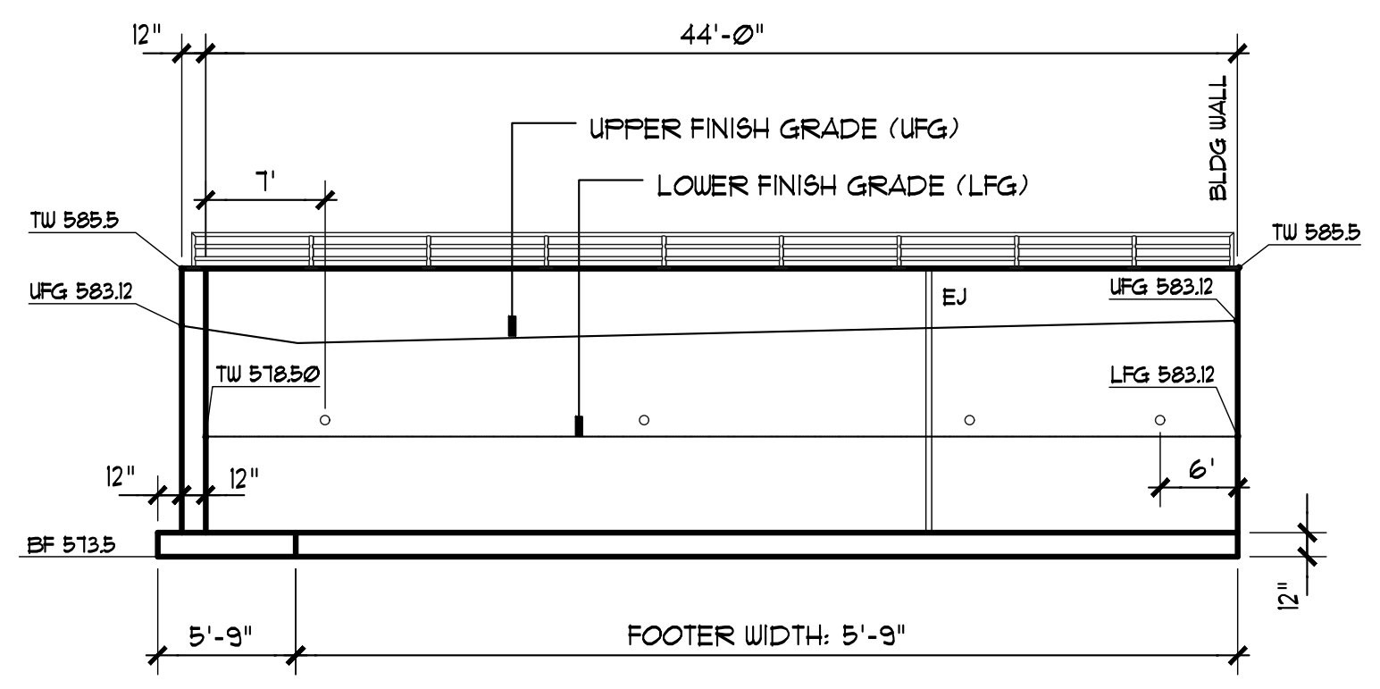
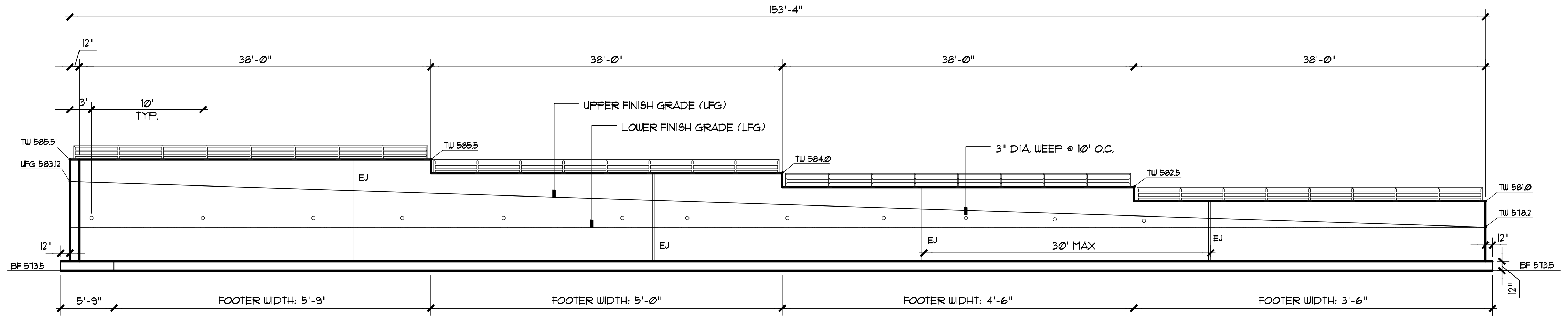

36" HT. RAILING
BLDG WALL
23'-0"
FOOTER WIDTH: 4'-8"
3" DIA. WEEP
90° CORNER
25'-0"
FOOTER WIDTH 3'-6"
LOWER FINISH GRADE (LFG)
UPPER FINISH GRADE (UFG)
TW 583.50
UFG 583.0
TW 583.50
FG 580.0
LFG 578.33
EJ
12"
BF 573.5
4'

WALL PROFILE C
⅛"=1'-0"


12"
44'-0"
7'
UPPER FINISH GRADE (UFG)
LOWER FINISH GRADE (LFG)
BLDG WALL
TW 585.5
UFG 583.12
TW 578.50
EJ
TW 585.5
UFG 583.12
LFG 583.12
6'
12"
12"
BF 573.5
12"
5'-9"
FOOTER WIDTH: 5'-9"

WALL PROFILE A
⅛"=1'-0"


153'-4"
12"
38'-0"
38'-0"
38'-0"
38'-0"
3'
10' TYP.
UPPER FINISH GRADE (UFG)
LOWER FINISH GRADE (LFG)
TW 585.5
UFG 583.12
TW 585.5
TW 584.0
3" DIA. WEEP @ 10' O.C.
TW 582.5
TW 581.0
TW 578.2
EJ
EJ
EJ
EJ
30' MAX
12"
12"
BF 573.5
BF 573.5
12"
5'-9"
FOOTER WIDTH: 5'-9"
FOOTER WIDTH: 5'-0"
FOOTER WIDHT: 4'-6"
FOOTER WIDTH: 3'-6"

WALL PROFILE B
⅛"=1'-0"

4 / C109 CONCRETE RETAINING WALL
SECTION • NOT TO SCALE CONCRETE RETAINING WALL
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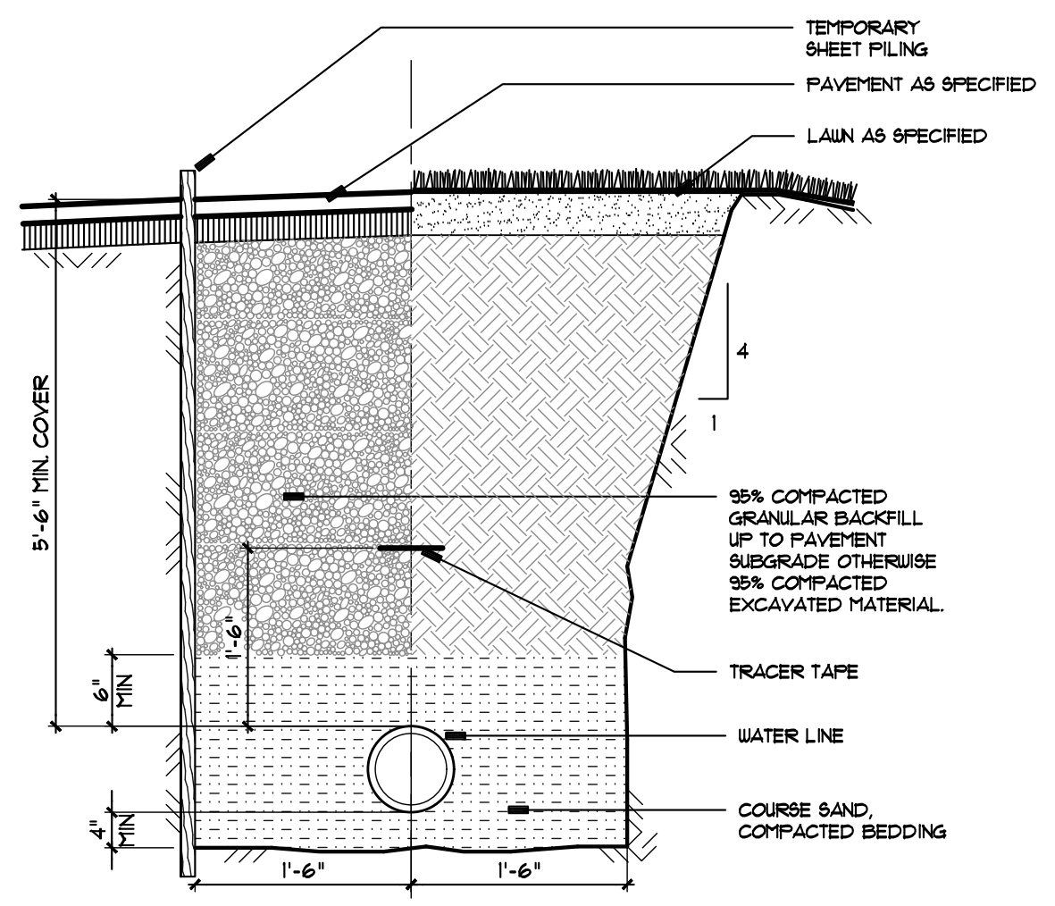
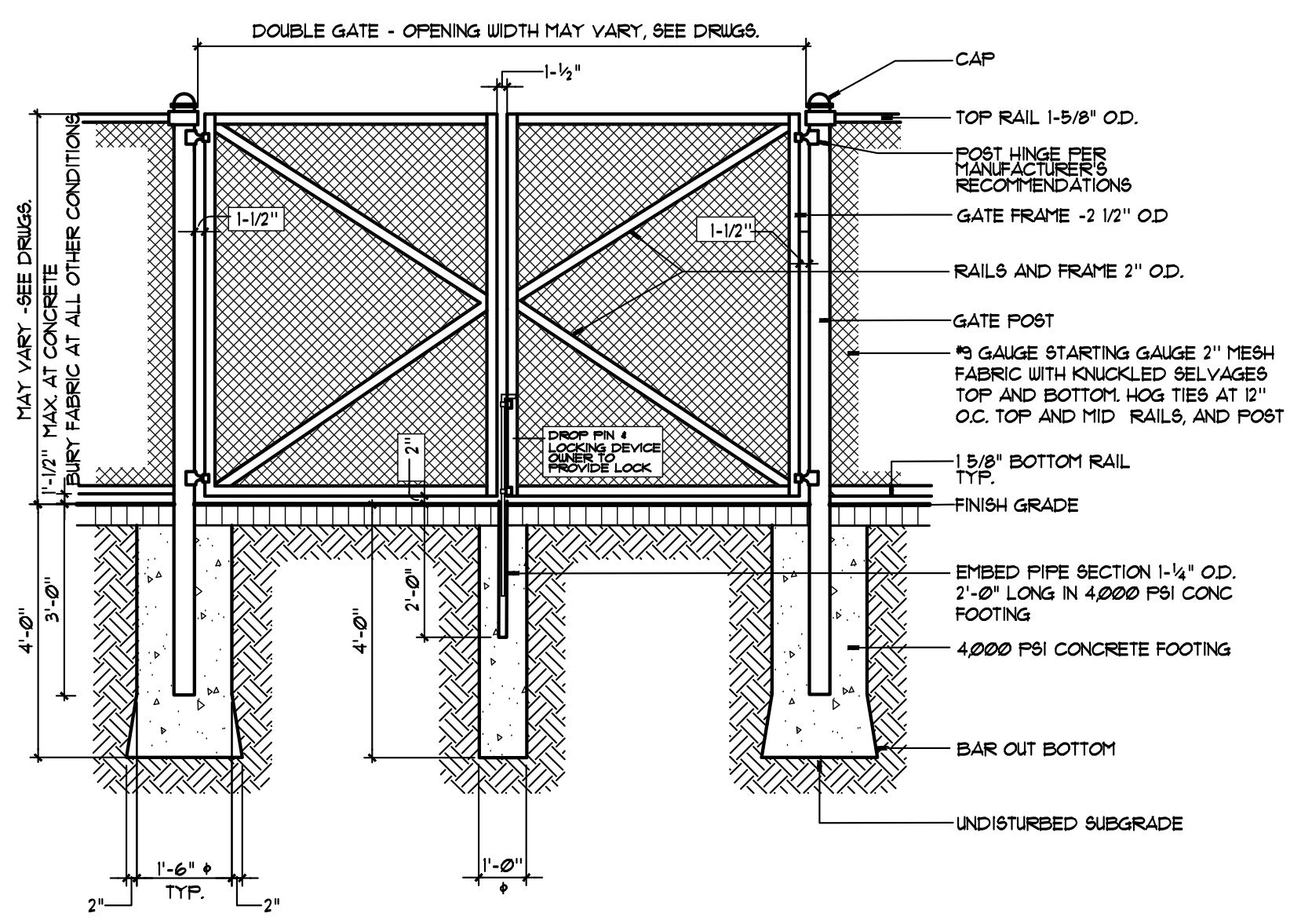

TEMPORARY SHEET PILING
PAVEMENT AS SPECIFIED
LAWN AS SPECIFIED
4
1
5'-6" MIN. COVER
95% COMPACTED GRANULAR BACKFILL UP TO PAVEMENT SUBGRADE OTHERWISE 95% COMPACTED EXCAVATED MATERIAL.
1'-6"
TRACER TAPE
6" MIN
WATER LINE
4" MIN
COURSE SAND, COMPACTED BEDDING
1'-6"
1'-6"

NOTE: MAXIMUM TRENCH WIDTH AT GROUND SURFACE SHALL BE 5'. BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

9 / C109 WATERLINE TRENCH = W
SECTION • NOT TO SCALE 255-004


DOUBLE GATE - OPENING WIDTH MAY VARY, SEE DRWGS.
1-½"
CAP
TOP RAIL 1-5/8" O.D.
POST HINGE PER MANUFACTURER'S RECOMMENDATIONS
GATE FRAME -2 1/2" O.D
RAILS AND FRAME 2" O.D.
GATE POST
#9 GAUGE STARTING GAUGE 2" MESH FABRIC WITH KNUCKLED SELVAGES TOP AND BOTTOM. HOG TIES AT 12" O.C. TOP AND MID RAILS, AND POST
1 5/8" BOTTOM RAIL TYP.
FINISH GRADE
EMBED PIPE SECTION 1-¼" O.D. 2'-0" LONG IN 4,000 PSI CONC FOOTING
4,000 PSI CONCRETE FOOTING
BAR OUT BOTTOM
UNDISTURBED SUBGRADE
MAY VARY -SEE DRWGS.
1'-1/2" MAX. AT CONCRETE
BURY FABRIC AT ALL OTHER CONDITIONS
1-1/2"
1-1/2"
DROP PIN & LOCKING DEVICE OWNER TO PROVIDE LOCK
2"
4'-0"
3'-0"
4'-0"
2'-0"
1'-6" ϕ TYP.
2"
2"
1'-0" ϕ

GATE POST SCHEDULE	
DOUBLE GATE WIDTH	POST O.D.
6' TO 12'	3"

✳ WITH PVC PRIVACY SLATS

8 / C109 BLACK VINYL CHAIN LINK FENCE GATE - DOUBLE WIDTH
SECTION • NOT TO SCALE 275-002A
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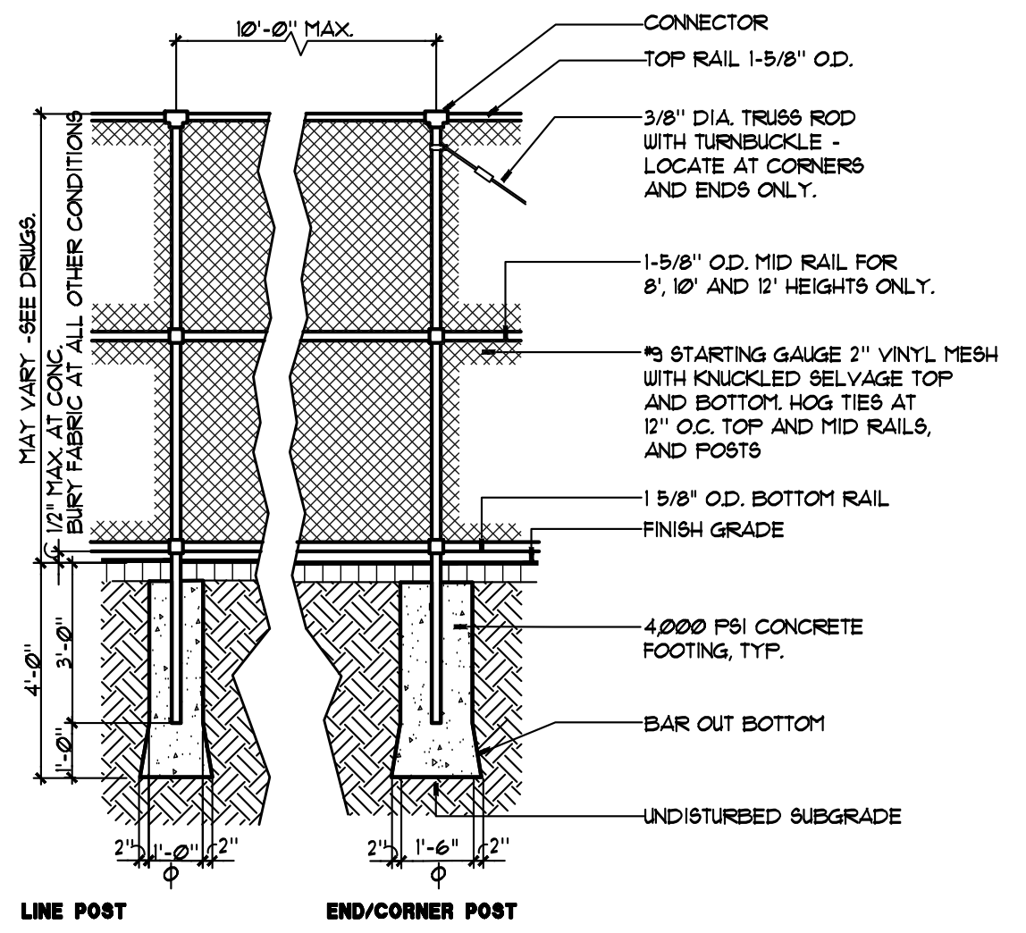
10'-0" MAX.
CONNECTOR
TOP RAIL 1-5/8" O.D.
3/8" DIA. TRUSS ROD WITH TURNBUCKLE - LOCATE AT CORNERS AND ENDS ONLY.
1-5/8" O.D. MID RAIL FOR 8', 10' AND 12' HEIGHTS ONLY.
#9 STARTING GAUGE 2" VINYL MESH WITH KNUCKLED SELVAGE TOP AND BOTTOM. HOG TIES AT 12" O.C. TOP AND MID RAILS, AND POSTS
1 5/8" O.D. BOTTOM RAIL
FINISH GRADE
4,000 PSI CONCRETE FOOTING, TYP.
BAR OUT BOTTOM
UNDISTURBED SUBGRADE
MAY VARY -SEE DRWGS.
1/2" MAX. AT CONC. BURY FABRIC AT ALL OTHER CONDITIONS
4'-0"
3'-0"
1'-0"
2"
1'-0"
2"
ϕ
2"
1'-6"
2"
ϕ
LINE POST
END/CORNER POST

POST SCHEDULE		
FABRIC HEIGHT	LINE POST O.D.	END / CORNER POST O.D.
4' to 6'	2"	2 1/2"
8' to 12'	2 1/2"	3"

✳ WITH PVC PRIVACY SLATS

7 / C109 VINYL CHAIN LINK FENCE = CLF
SECTION • NOT TO SCALE 275-001A
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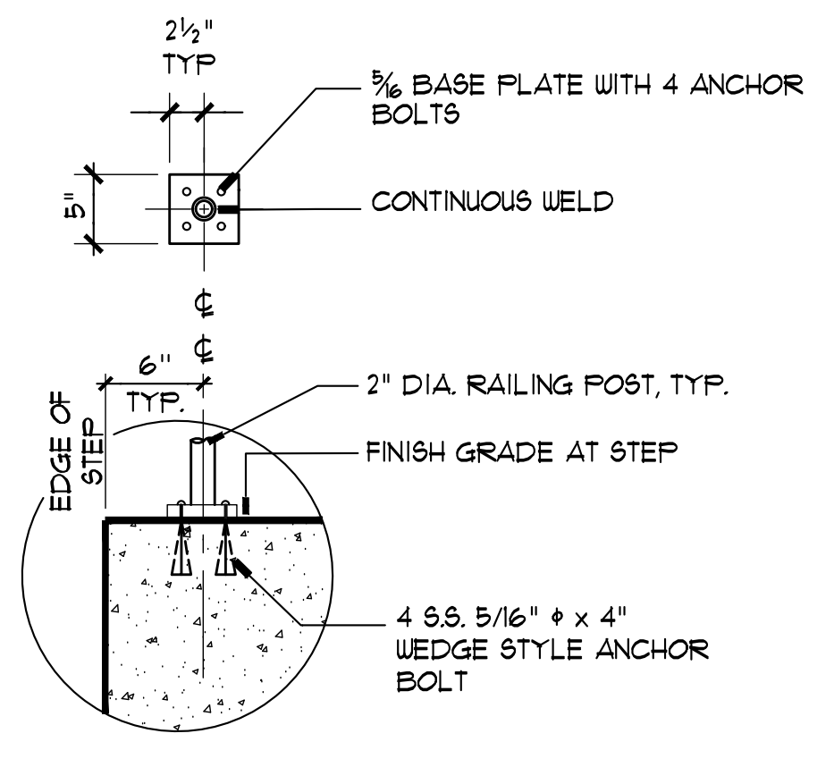
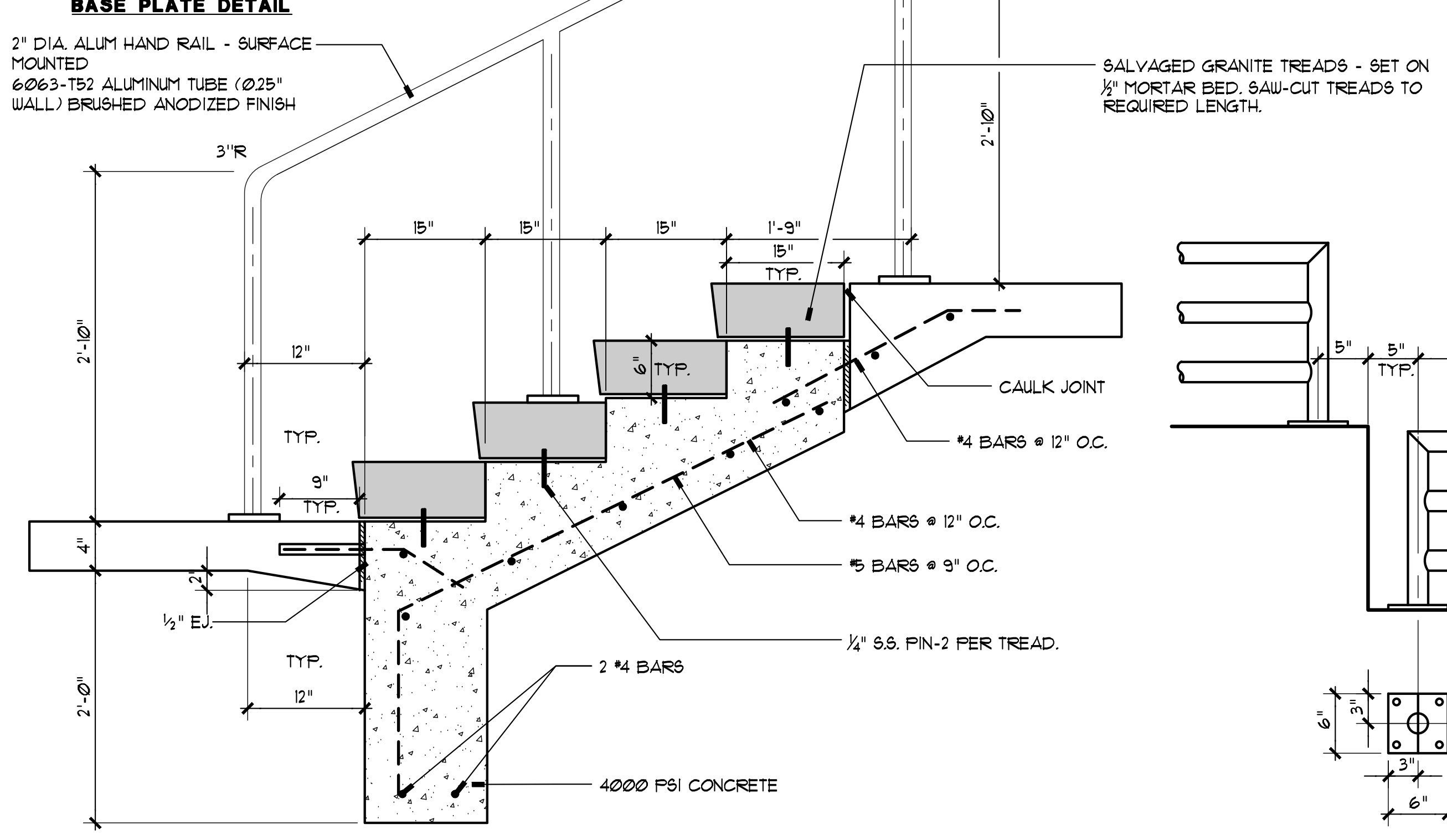

2½" TYP
5⁄16 BASE PLATE WITH 4 ANCHOR BOLTS
5"
CONTINUOUS WELD
6" TYP.
EDGE OF STEP
2" DIA. RAILING POST, TYP.
FINISH GRADE AT STEP
4 S.S. 5/16" ϕ x 4" WEDGE STYLE ANCHOR BOLT

BASE PLATE DETAIL


2" DIA. ALUM HAND RAIL - SURFACE MOUNTED 6063-T52 ALUMINUM TUBE (0.25" WALL) BRUSHED ANODIZED FINISH
3"R
1'-6"
3"R
2'-10"
SALVAGED GRANITE TREADS - SET ON ½" MORTAR BED. SAW-CUT TREADS TO REQUIRED LENGTH.
15"
15"
15"
1'-9"
15" TYP.
12"
TYP.
6" TYP.
9" TYP.
4"
2"
½" EJ.
TYP.
12"
2'-10"
2'-0"
CAULK JOINT
#4 BARS @ 12" O.C.
#4 BARS @ 12" O.C.
#5 BARS @ 9" O.C.
¼" S.S. PIN-2 PER TREAD.
2 #4 BARS
4000 PSI CONCRETE

6 / C109 GRANITE STEPS AND HANDRAIL
SECTION • 1" = 1'-0" 3213-105x
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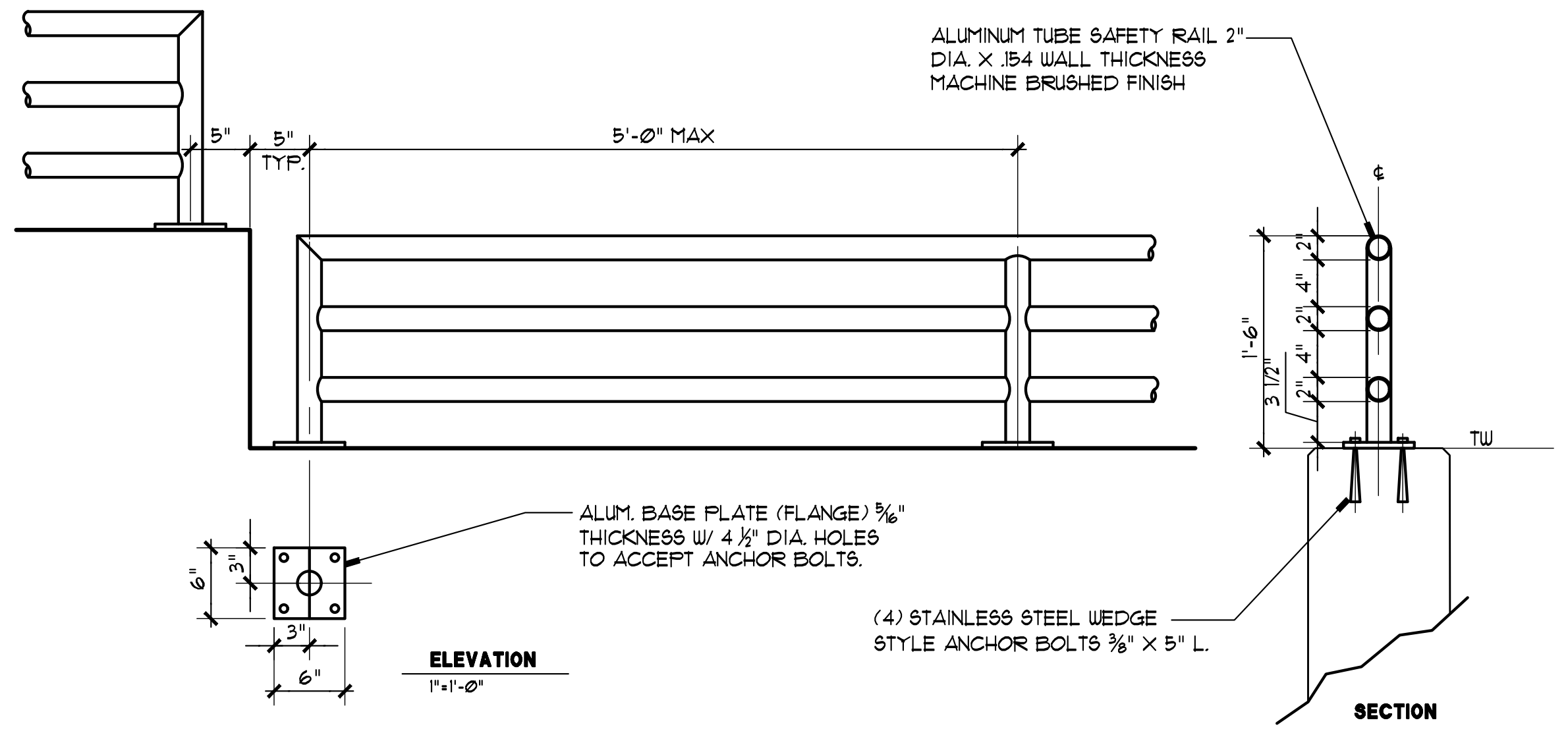
5"
5" TYP.
5'-0" MAX
ALUMINUM TUBE SAFETY RAIL 2" DIA. X .154 WALL THICKNESS MACHINE BRUSHED FINISH
1'-6"
2"
4"
2"
4"
2"
3 1/2"
TW
ALUM. BASE PLATE (FLANGE) 5⁄16" THICKNESS W/ 4 ½" DIA. HOLES TO ACCEPT ANCHOR BOLTS.
6"
3"
3"
6"
(4) STAINLESS STEEL WEDGE STYLE ANCHOR BOLTS ⅜" X 5" L.
ELEVATION
1"=1'-0"
SECTION

3 / C109 ALUMINUM SAFETY RAIL
SECTION • 1"=1'-0" ALUMINUM SAFETY RAIL
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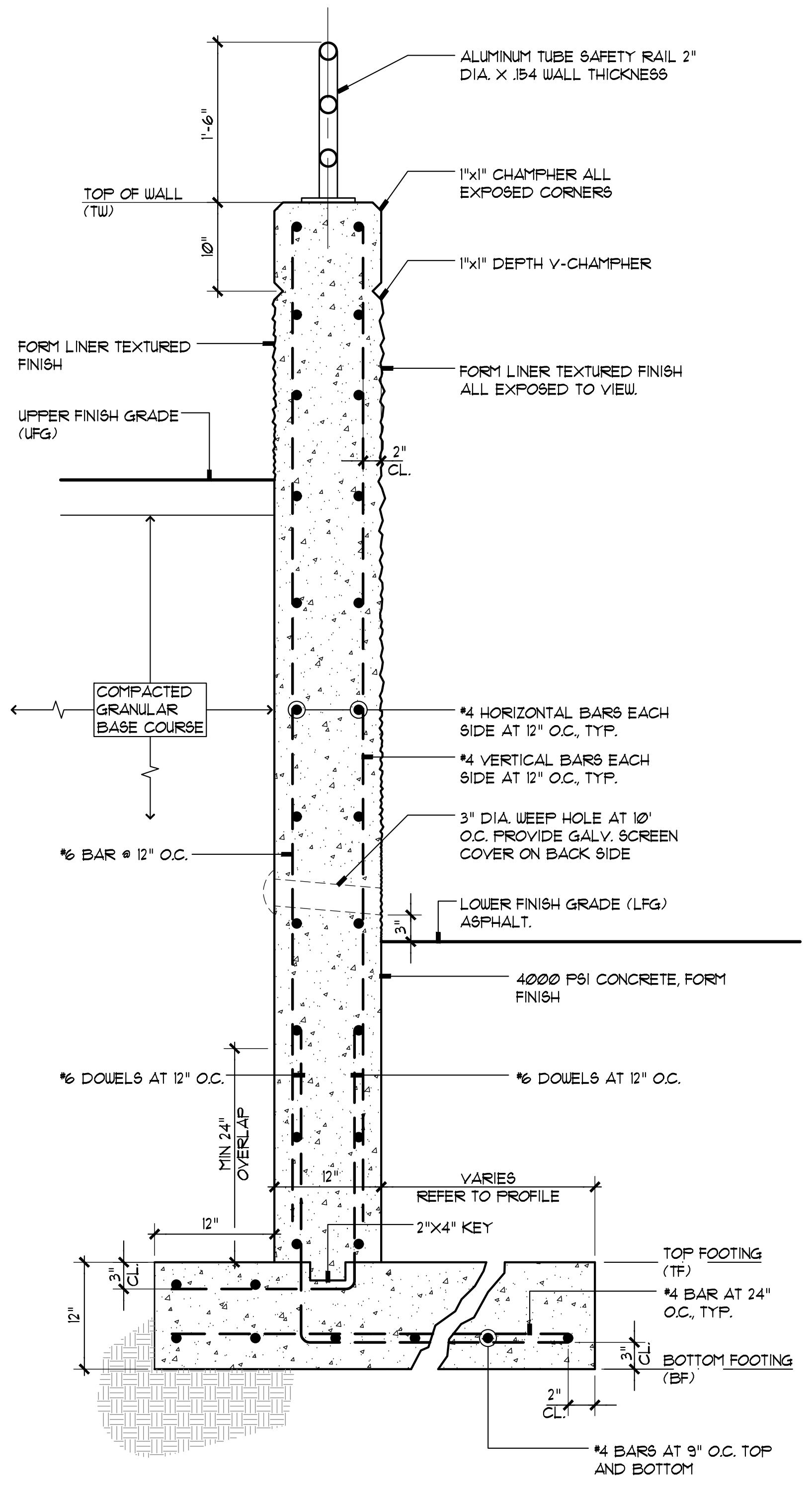
ALUMINUM TUBE SAFETY RAIL 2" DIA. X .154 WALL THICKNESS
1'-6"
TOP OF WALL (TW)
1"x1" CHAMPHER ALL EXPOSED CORNERS
10"
1"x1" DEPTH V-CHAMPHER
FORM LINER TEXTURED FINISH
FORM LINER TEXTURED FINISH ALL EXPOSED TO VIEW.
UPPER FINISH GRADE (UFG)
2" CL.
COMPACTED GRANULAR BASE COURSE
#4 HORIZONTAL BARS EACH SIDE AT 12" O.C., TYP.
#4 VERTICAL BARS EACH SIDE AT 12" O.C., TYP.
#6 BAR @ 12" O.C.
3" DIA. WEEP HOLE AT 10' O.C. PROVIDE GALV. SCREEN COVER ON BACK SIDE
LOWER FINISH GRADE (LFG) ASPHALT.
3"
4000 PSI CONCRETE, FORM FINISH
#6 DOWELS AT 12" O.C.
#6 DOWELS AT 12" O.C.
MIN 24" OVERLAP
12"
VARIES REFER TO PROFILE
12"
2"X4" KEY
TOP FOOTING (TF)
#4 BAR AT 24" O.C., TYP.
3" CL.
12"
BOTTOM FOOTING (BF)
3" CL.
2" CL.
#4 BARS AT 9" O.C. TOP AND BOTTOM

5 / C109 REINFORCED CONCRETE RETAINING WALL
1"=1'-0" REINFORCED CONCRETE WALL DETAIL
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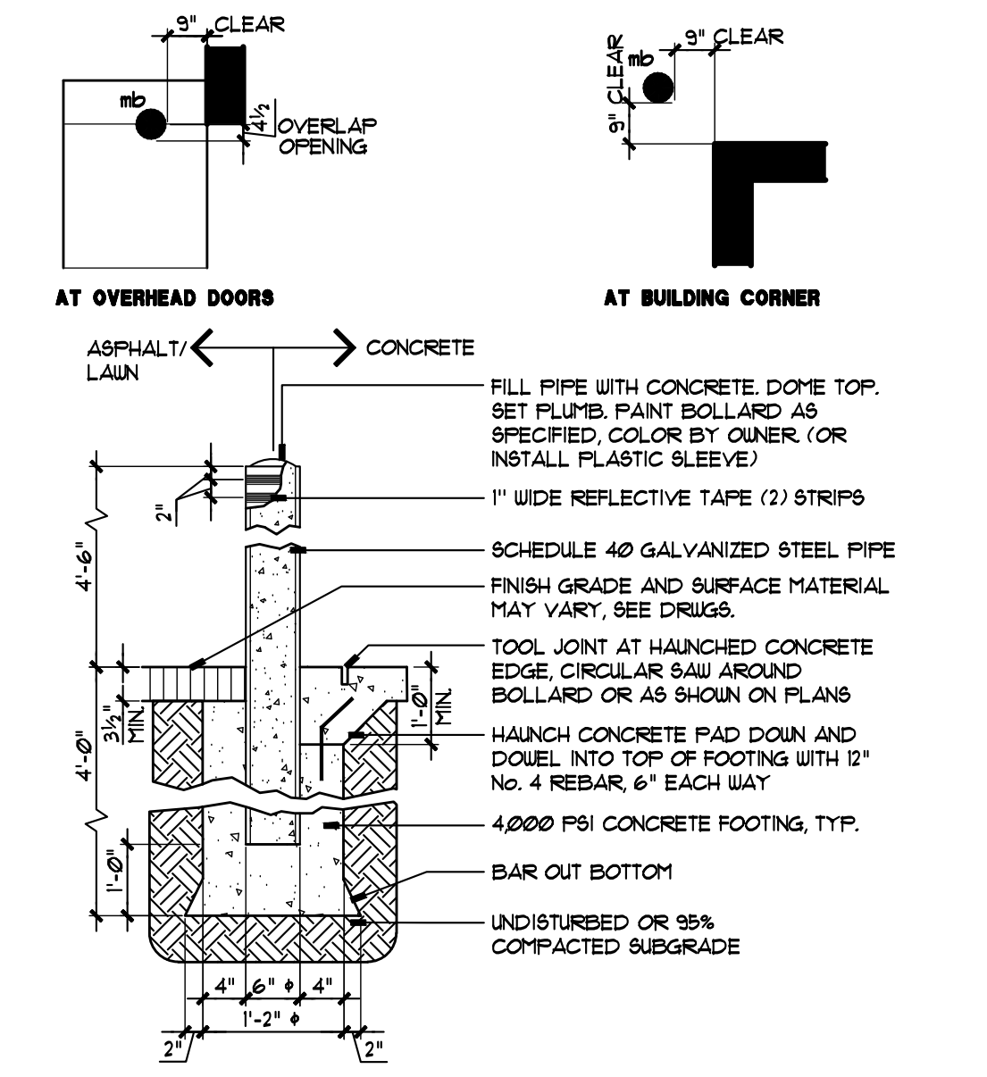
9" CLEAR
mb
4½ OVERLAP OPENING
AT OVERHEAD DOORS
9" CLEAR
mb
9" CLEAR
AT BUILDING CORNER
ASPHALT/ LAWN
CONCRETE
FILL PIPE WITH CONCRETE. DOME TOP. SET PLUMB. PAINT BOLLARD AS SPECIFIED, COLOR BY OWNER. (OR INSTALL PLASTIC SLEEVE)
1" WIDE REFLECTIVE TAPE (2) STRIPS
SCHEDULE 40 GALVANIZED STEEL PIPE
FINISH GRADE AND SURFACE MATERIAL MAY VARY, SEE DRWGS.
TOOL JOINT AT HAUNCHED CONCRETE EDGE, CIRCULAR SAW AROUND BOLLARD OR AS SHOWN ON PLANS
HAUNCH CONCRETE PAD DOWN AND DOWEL INTO TOP OF FOOTING WITH 12" No. 4 REBAR, 6" EACH WAY
4,000 PSI CONCRETE FOOTING, TYP.
BAR OUT BOTTOM
UNDISTURBED OR 95% COMPACTED SUBGRADE
2"
4'-6"
3½" MIN.
1'-0" MIN.
4'-0"
1'-0"
4"
6" ϕ
4"
1'-2" ϕ
2"
2"

2 / C109 METAL BOLLARD=MB
SECTION • NOT TO SCALE 3230-006A
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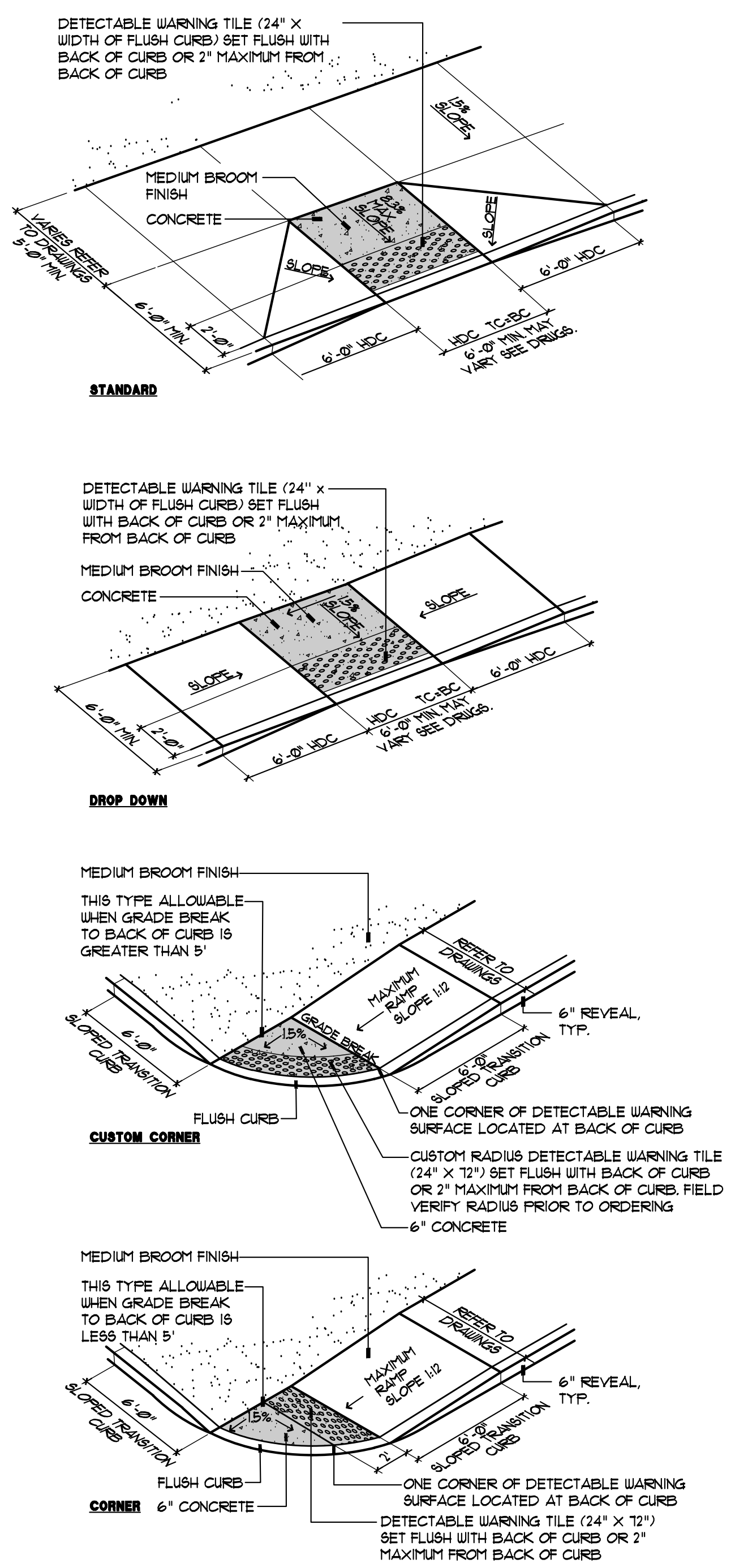
DETECTABLE WARNING TILE (24" X WIDTH OF FLUSH CURB) SET FLUSH WITH BACK OF CURB OR 2" MAXIMUM FROM BACK OF CURB
1.5% SLOPE
MEDIUM BROOM FINISH
CONCRETE
8.3% MAX SLOPE
SLOPE
SLOPE
VARIES REFER TO DRAWINGS 5'-0" MIN.
6'-0" MIN
2'-0"
6'-0" HDC
HDC TC=BC
6'-0" MIN. MAY VARY SEE DRWGS.
6'-0" HDC
STANDARD
DETECTABLE WARNING TILE (24" x WIDTH OF FLUSH CURB) SET FLUSH WITH BACK OF CURB OR 2" MAXIMUM FROM BACK OF CURB
MEDIUM BROOM FINISH
CONCRETE
1.5% SLOPE
SLOPE
SLOPE
6'-0" MIN
2'-0"
6'-0" HDC
HDC TC=BC
6'-0" MIN. MAY VARY SEE DRWGS.
6'-0" HDC
DROP DOWN
MEDIUM BROOM FINISH
THIS TYPE ALLOWABLE WHEN GRADE BREAK TO BACK OF CURB IS GREATER THAN 5'
REFER TO DRAWINGS
MAXIMUM RAMP SLOPE 1:12
1.5%
GRADE BREAK
6" REVEAL, TYP.
6'-0"
SLOPED TRANSITION CURB
6'-0"
SLOPED TRANSITION CURB
FLUSH CURB
CUSTOM CORNER
ONE CORNER OF DETECTABLE WARNING SURFACE LOCATED AT BACK OF CURB
CUSTOM RADIUS DETECTABLE WARNING TILE (24" X 72") SET FLUSH WITH BACK OF CURB OR 2" MAXIMUM FROM BACK OF CURB. FIELD VERIFY RADIUS PRIOR TO ORDERING
6" CONCRETE
MEDIUM BROOM FINISH
THIS TYPE ALLOWABLE WHEN GRADE BREAK TO BACK OF CURB IS LESS THAN 5'
REFER TO DRAWINGS
MAXIMUM RAMP SLOPE 1:12
1.5%
6" REVEAL, TYP.
6'-0"
SLOPED TRANSITION CURB
6'-0"
SLOPED TRANSITION CURB
2'
FLUSH CURB
CORNER
6" CONCRETE
ONE CORNER OF DETECTABLE WARNING SURFACE LOCATED AT BACK OF CURB
DETECTABLE WARNING TILE (24" X 72") SET FLUSH WITH BACK OF CURB OR 2" MAXIMUM FROM BACK OF CURB

1 / C109 CURB RAMP WITH DETECTABLE WARNING SYSTEM
AXONOMETRIC • NOT TO SCALE 3213-001
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ISSUE/REVISION:

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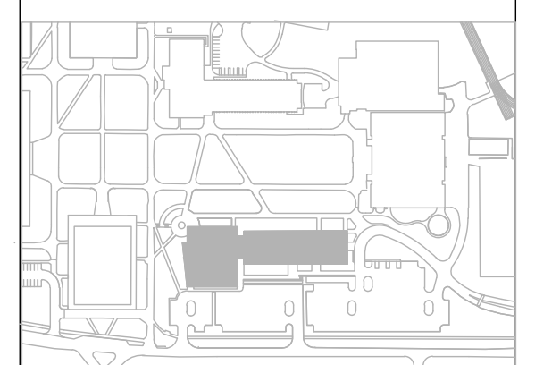
KEY PLAN:

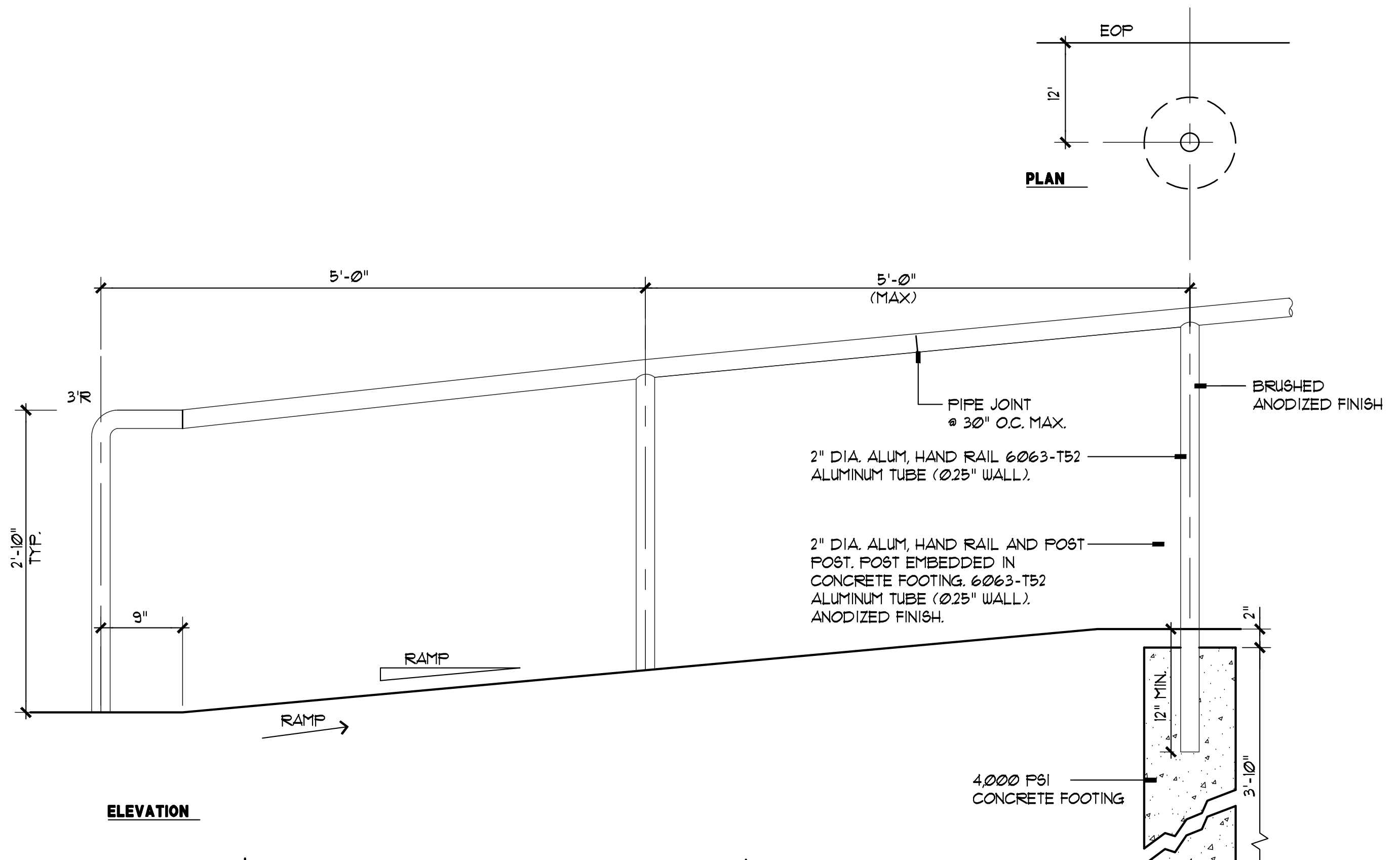

PLAN NORTH

PROJECT:
S & T BUILDING REPLACEMENT

DRAWING TITLE:
SITE DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-109


EOP
12'
PLAN
5'-0"
5'-0" (MAX)
3'R
2'-10" TYP.
9"
RAMP
RAMP
PIPE JOINT @ 30" O.C. MAX.
BRUSHED ANODIZED FINISH
2" DIA. ALUM. HAND RAIL 6063-T52 ALUMINUM TUBE (0.25" WALL).
2" DIA. ALUM. HAND RAIL AND POST POST. POST EMBEDDED IN CONCRETE FOOTING. 6063-T52 ALUMINUM TUBE (0.25" WALL). ANODIZED FINISH.
2"
12" MIN.
3'-10"
4,000 PSI CONCRETE FOOTING
12"
ELEVATION

5 / C110 RAMP HANDRAIL
SCALE: 1/2" = 1'-0"
ALUMINUM HANDRAIL AT RAMP
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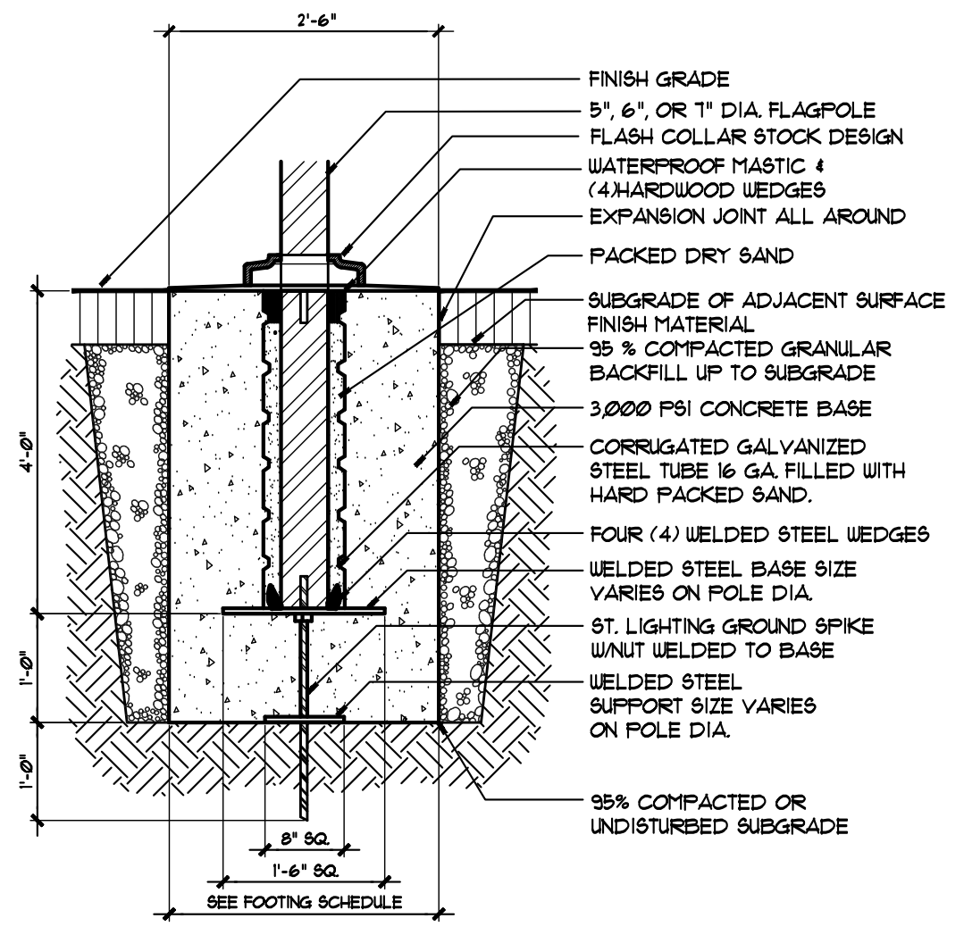
2'-6"
FINISH GRADE
5", 6", OR 7" DIA. FLAGPOLE
FLASH COLLAR STOCK DESIGN
WATERPROOF MASTIC & (4)HARDWOOD WEDGES
EXPANSION JOINT ALL AROUND
PACKED DRY SAND
SUBGRADE OF ADJACENT SURFACE FINISH MATERIAL
95 % COMPACTED GRANULAR BACKFILL UP TO SUBGRADE
3,000 PSI CONCRETE BASE
CORRUGATED GALVANIZED STEEL TUBE 16 GA. FILLED WITH HARD PACKED SAND.
FOUR (4) WELDED STEEL WEDGES
WELDED STEEL BASE SIZE VARIES ON POLE DIA.
ST. LIGHTING GROUND SPIKE W/NUT WELDED TO BASE
WELDED STEEL SUPPORT SIZE VARIES ON POLE DIA.
95% COMPACTED OR UNDISTURBED SUBGRADE
4'-0"
1'-0"
1'-0"
8" SQ.
1'-6" SQ.
SEE FOOTING SCHEDULE

FOOTING SCHEDULE

EXPOSED FLAGPOLE HT.& DIA	FOOTING ϕ	STEEL BASE	STEEL SUPPORT	GROUND SPIKE	FOUNDATION TUBE	DEPTH OF EXCAVATION
25'	2'-0"	12"x12"x3/16"	6"x6"x3/16"	3/4"DIAx18"	3'-0"	3'-4"
30'HT/5"DIA	2'-0"	12"x12"x3/16"	6"x6"x3/16"	3/4"DIAx18"	3'-0"	3'-4"
30'HT/6"DIA	2'-0"	16"x16"x3/16"	8"x8"x3/16"	3/4"DIAx18"	3'-0"	3'-4"
35'HT/5"DIA	2'-0"	16"x16"x3/16"	8"x8"x3/16"	3/4"DIAx18"	3'-6"	3'-10"
35'HT/7"DIA	2'-0"	16"x16"x3/16"	8"x8"x3/16"	3/4"DIAx18"	3'-6"	3'-10"

4 / C110 FLAGPOLE BASE
SECTION • NOT TO SCALE
3230-002A
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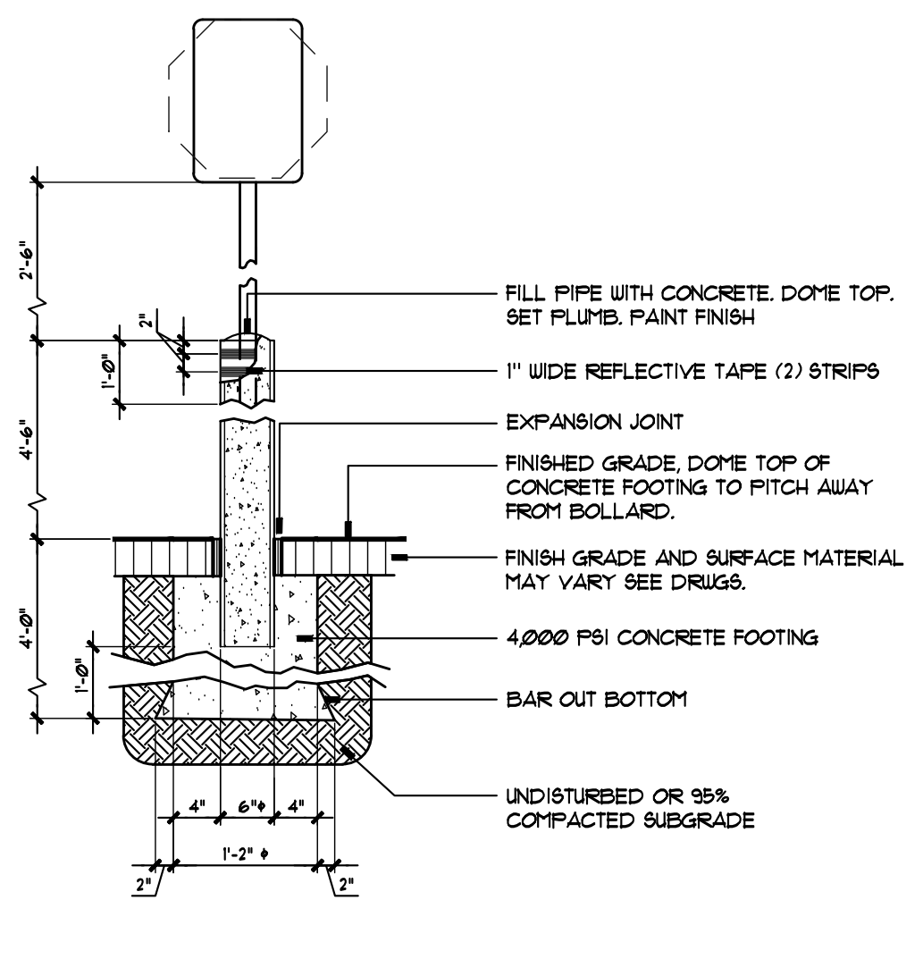
2'-6"
4'-6"
4'-0"
1'-0"
2"
1'-0"
FILL PIPE WITH CONCRETE. DOME TOP. SET PLUMB. PAINT FINISH
1" WIDE REFLECTIVE TAPE (2) STRIPS
EXPANSION JOINT
FINISHED GRADE, DOME TOP OF CONCRETE FOOTING TO PITCH AWAY FROM BOLLARD.
FINISH GRADE AND SURFACE MATERIAL MAY VARY SEE DRWGS.
4,000 PSI CONCRETE FOOTING
BAR OUT BOTTOM
UNDISTURBED OR 95% COMPACTED SUBGRADE
4"
6"ϕ
4"
1'-2" ϕ
2"
2"

3 / C110 TRAFFIC SIGN WITH METAL BOLLARD=TMB
SECTION • NOT TO SCALE
3230-003C
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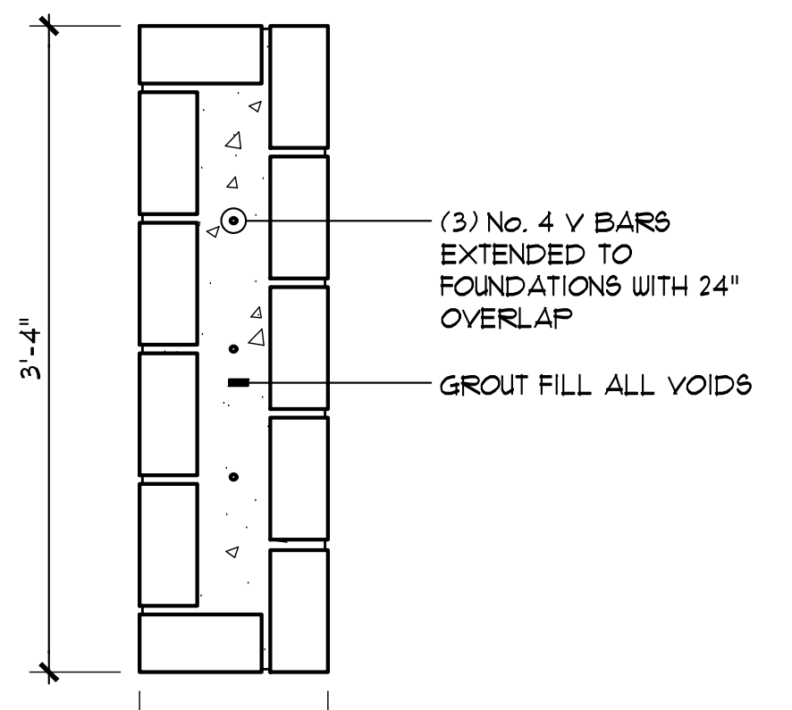
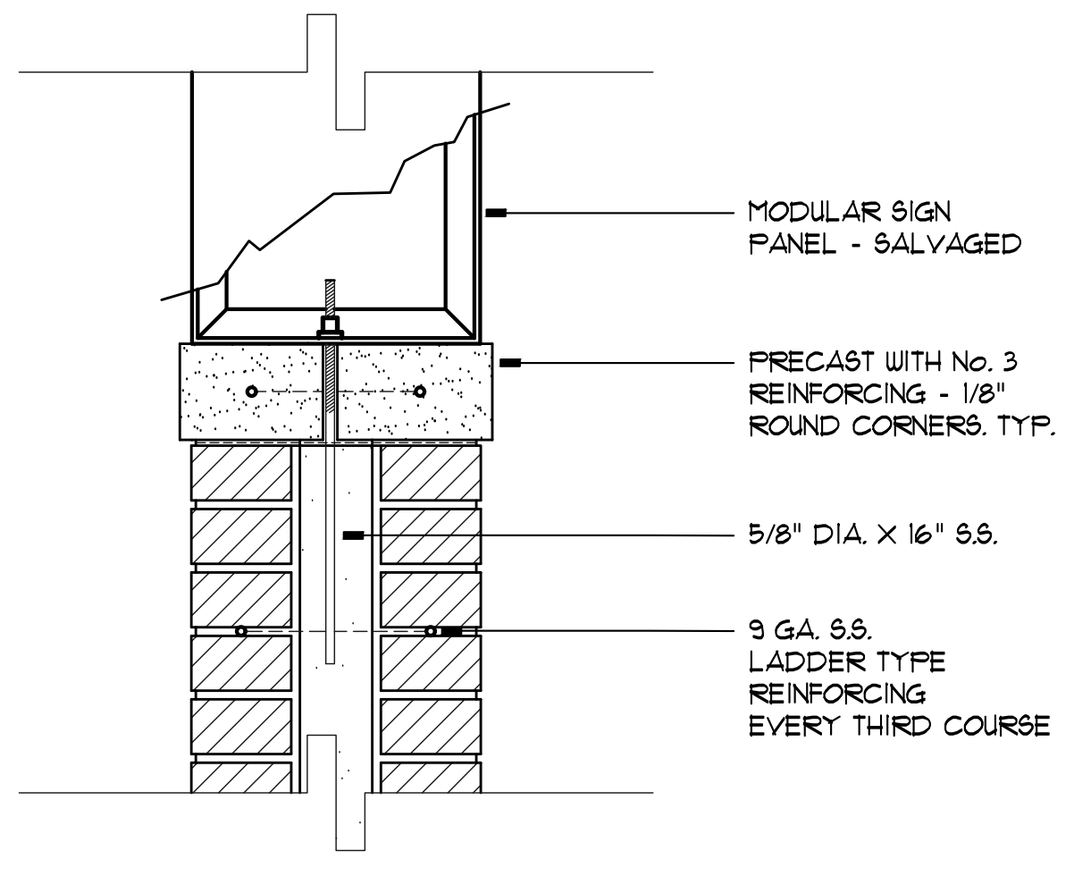
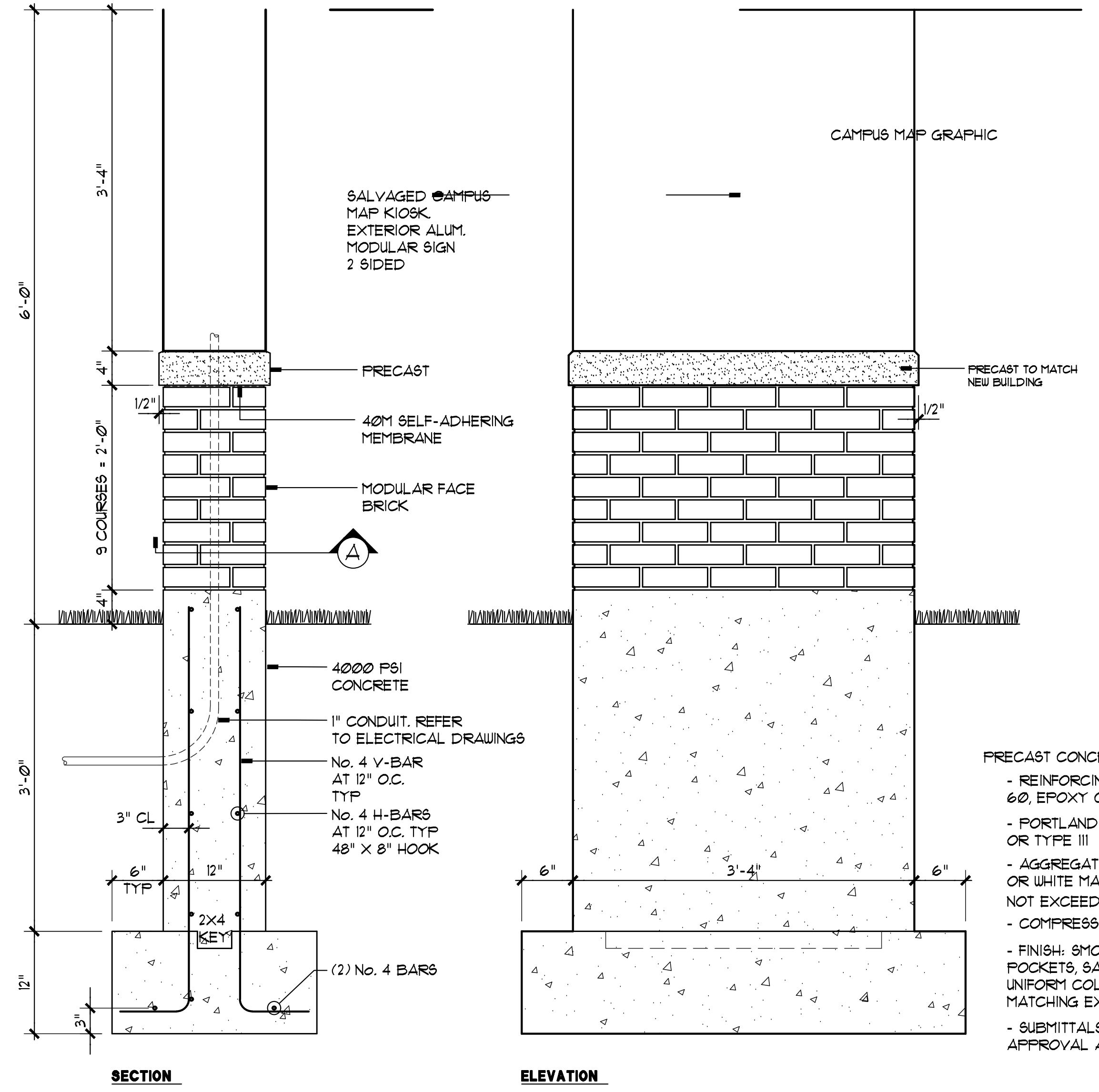

3'-4"
12"
(3) No. 4 V BARS EXTENDED TO FOUNDATIONS WITH 24" OVERLAP
GROUT FILL ALL VOIDS

Ⓐ **SECTION AT BASE**


MODULAR SIGN PANEL - SALVAGED
PRECAST WITH No. 3 REINFORCING - 1/8" ROUND CORNERS. TYP.
5/8" DIA. X 16" S.S.
9 GA. S.S. LADDER TYPE REINFORCING EVERY THIRD COURSE

DETAIL SECTION
1 ½" = 1'-0"


3'-4"
6'-0"
4"
1/2"
9 COURSES = 2'-0"
4"
3'-0"
12"
3"
SALVAGED ~~CAMPUS~~ MAP KIOSK. EXTERIOR ALUM. MODULAR SIGN 2 SIDED
PRECAST
40M SELF-ADHERING MEMBRANE
MODULAR FACE BRICK
A
4000 PSI CONCRETE
1" CONDUIT. REFER TO ELECTRICAL DRAWINGS
No. 4 V-BAR AT 12" O.C. TYP
No. 4 H-BARS AT 12" O.C. TYP 48" X 8" HOOK
3" CL
6" TYP
12"
2X4 KEY
(2) No. 4 BARS
SECTION
3'-4"
CAMPUS MAP GRAPHIC
PRECAST TO MATCH NEW BUILDING
1/2"
6"
3'-4"
6"
ELEVATION

PRECAST CONCRETE:
- REINFORCING BARS: ASTM A615, GRADE 60, EPOXY COATED.
- PORTLAND CEMENT: ASTM C 150, TYPE I OR TYPE III
- AGGREGATE: ASTM C 33, GREY CRUSHED LIMESTONE OR WHITE MARBLE CHIPS AND STANDARD WHITE SAND. NOT EXCEEDING ¼" SIEVE.
- COMPRESSIVE STRENGTH: 5,000 PSI AT 28 DAYS.
- FINISH: SMOOTH SURFACE FINISH, ACID ETCHED, FREE OF POCKETS, SAND STREAKS, AND HONEYCOMB WITH UNIFORM COLOR AND TEXTURE. COLOR SHALL BE TAN, MATCHING EXISTING SIGNS ON CAMPUS.
- SUBMITTALS: PROVIDE SAMPLE(S) FOR COLOR APPROVAL AND FINISH. PROVIDE SHOP DRAWINGS.

REFER TO SECTIONS: 040511 - MASONRY MORTARING AND GROUT
042000 - UNIT MASONRY

2 / C110 CAMPUS MAP KIOSK - RELOCATED
SECTION • NOT TO SCALE
KIOSK
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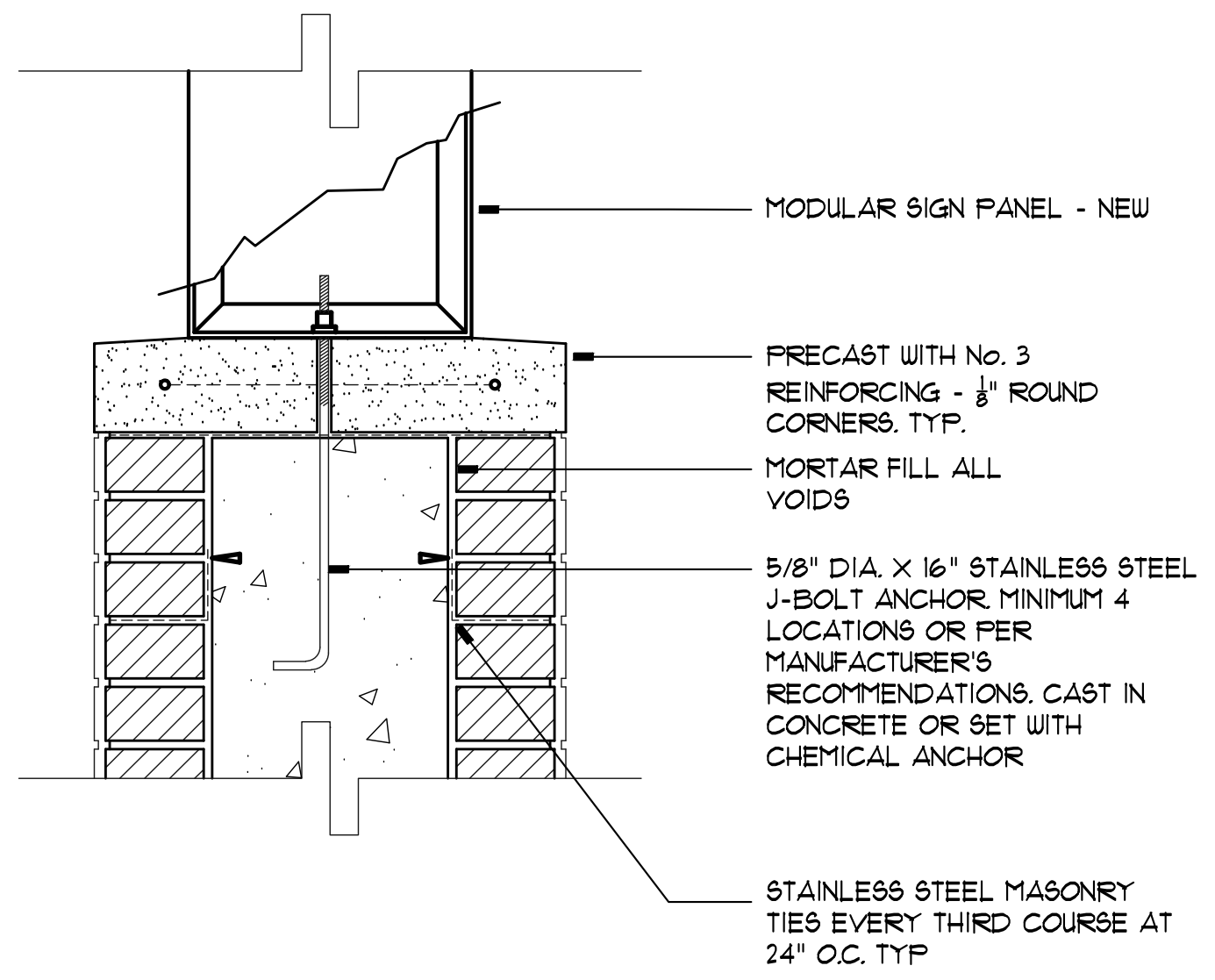
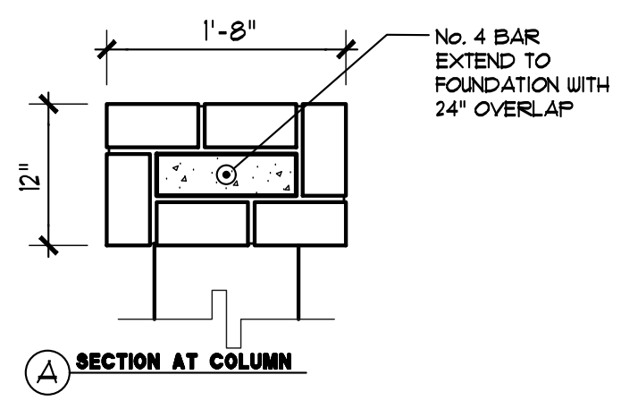
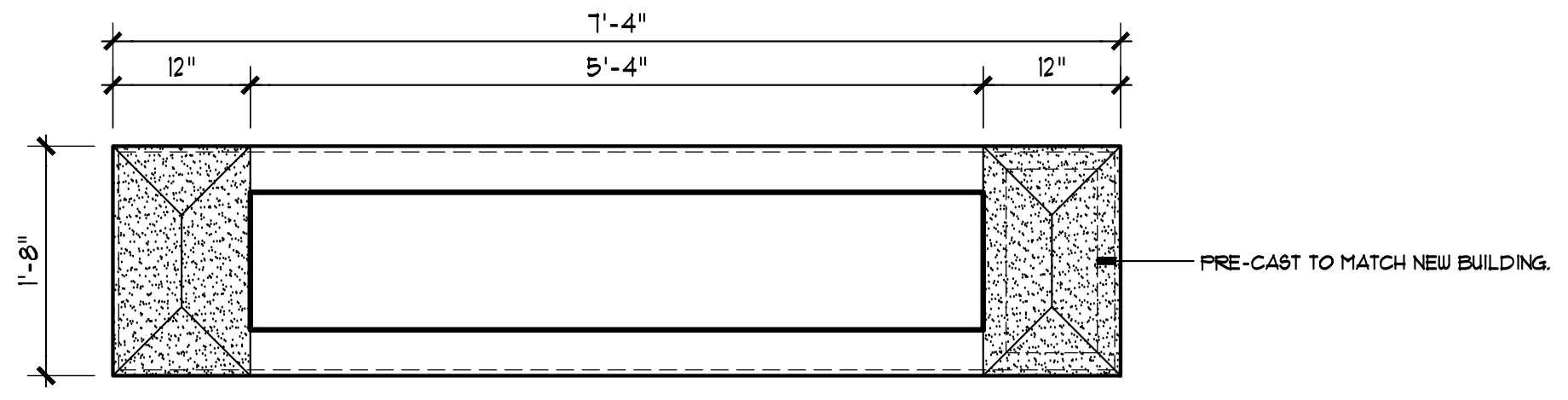

MODULAR SIGN PANEL - NEW
PRECAST WITH No. 3 REINFORCING - ⅛" ROUND CORNERS. TYP.
MORTAR FILL ALL VOIDS
5/8" DIA. X 16" STAINLESS STEEL J-BOLT ANCHOR. MINIMUM 4 LOCATIONS OR PER MANUFACTURER'S RECOMMENDATIONS. CAST IN CONCRETE OR SET WITH CHEMICAL ANCHOR
STAINLESS STEEL MASONRY TIES EVERY THIRD COURSE AT 24" O.C. TYP

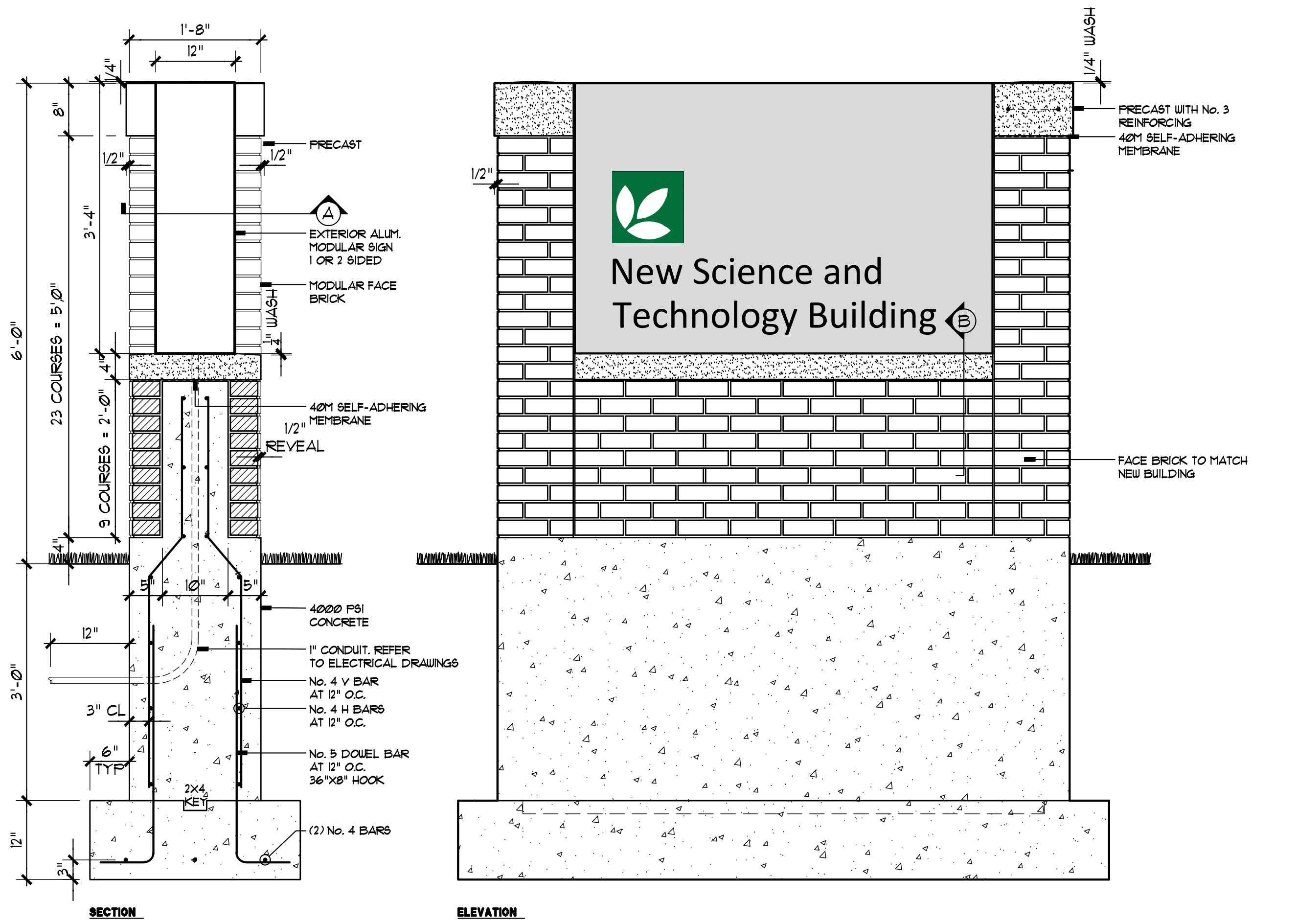
Ⓑ **DETAIL SECTION**
1 ½" = 1'-0"


1'-8"
12"
No. 4 BAR EXTEND TO FOUNDATION WITH 24" OVERLAP

Ⓐ **SECTION AT COLUMN**


7'-4"
12"
5'-4"
12"
1'-8"
PRE-CAST TO MATCH NEW BUILDING.

TOP VIEW


1'-8"
12"
1/4"
8"
1/2"
1/2"
3'-4"
6'-0"
23 COURSES = 5'0"
4"
9 COURSES = 2'-0"
4"
PRECAST
A
EXTERIOR ALUM. MODULAR SIGN 1 OR 2 SIDED
MODULAR FACE BRICK
¼" WASH
40M SELF-ADHERING MEMBRANE
1/2" REVEAL
5"
10"
5"
4000 PSI CONCRETE
12"
1" CONDUIT. REFER TO ELECTRICAL DRAWINGS
No. 4 V BAR AT 12" O.C.
No. 4 H BARS AT 12" O.C.
3" CL
6" TYP
3'-0"
No. 5 DOWEL BAR AT 12" O.C. 36"X8" HOOK
2X4 KEY
(2) No. 4 BARS
12"
3"
SECTION
1/4" WASH
PRECAST WITH No. 3 REINFORCING
40M SELF-ADHERING MEMBRANE
1/2"
New Science and Technology Building
B
FACE BRICK TO MATCH NEW BUILDING
ELEVATION

REFER TO SECTIONS: 040511 - MASONRY MORTARING AND GROUT
042000 - UNIT MASONRY

1 / C110 ILLUMINATED BUILDING IDENTIFICATION
3/4" = 1'- 0"
SIGN
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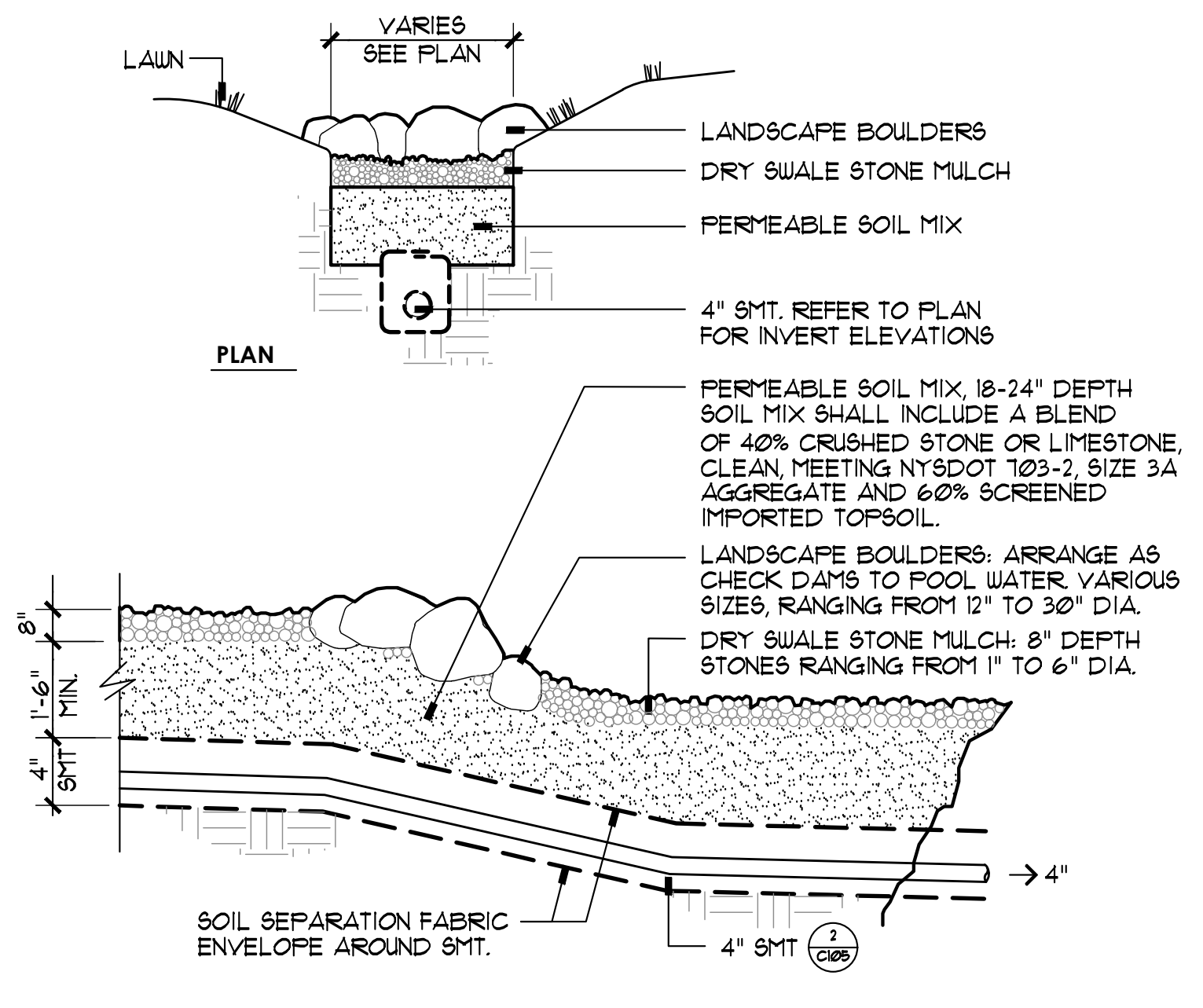
VARIES SEE PLAN
LAWN
LANDSCAPE BOULDERS
DRY SWALE STONE MULCH
PERMEABLE SOIL MIX
4" SMT. REFER TO PLAN FOR INVERT ELEVATIONS
PLAN
PERMEABLE SOIL MIX, 18-24" DEPTH SOIL MIX SHALL INCLUDE A BLEND OF 40% CRUSHED STONE OR LIMESTONE, CLEAN, MEETING NYSDOT 703-2, SIZE 3A AGGREGATE AND 60% SCREENED IMPORTED TOPSOIL.
LANDSCAPE BOULDERS: ARRANGE AS CHECK DAMS TO POOL WATER. VARIOUS SIZES, RANGING FROM 12" TO 30" DIA.
DRY SWALE STONE MULCH: 8" DEPTH STONES RANGING FROM 1" TO 6" DIA.
8"
1'-6" MIN.
4" SMT
4"
SOIL SEPARATION FABRIC ENVELOPE AROUND SMT.
4" SMT 2/C105
ELEVATION

6 / C110 DRY SWALE / BIO RETENTION
SECTION • NOT TO SCALE
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315 476 1022

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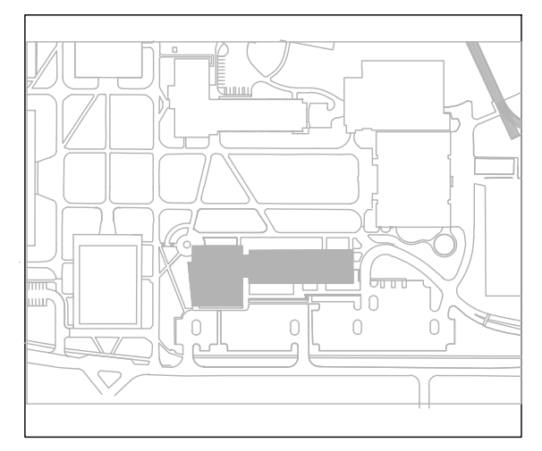
VINCENT PAUL PIETRZAK 001287-1
Registration current through: 8/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:

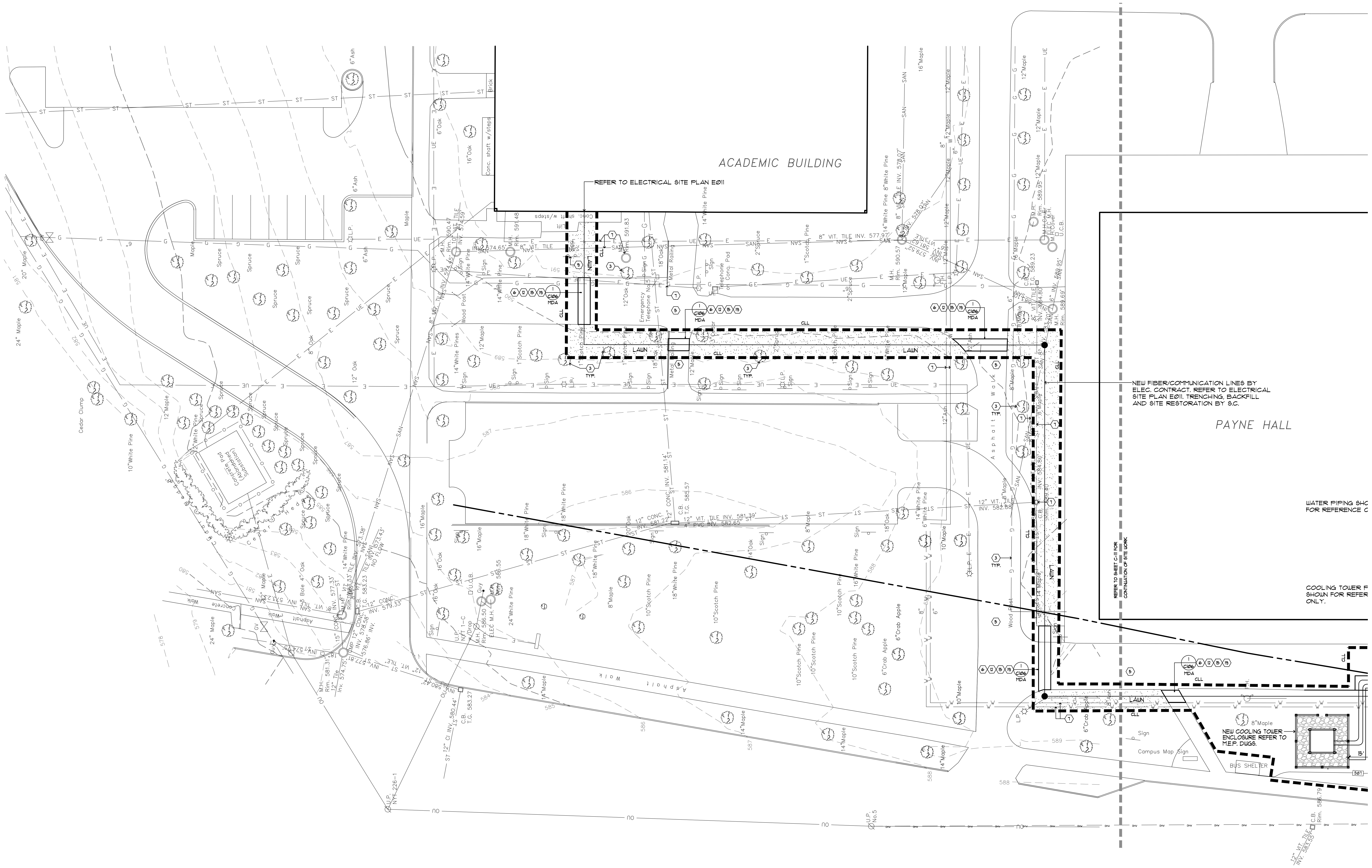


PROJECT:
S & T BUILDING
REPLACEMENT

DRAWING TITLE:
SITE DETAILS

PROJECT NO: 23000	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

C-110


ACADEMIC BUILDING
PAYNE HALL
REFER TO ELECTRICAL SITE PLAN E011
NEW FIBER/COMMUNICATION LINES BY ELEC. CONTRACT. REFER TO ELECTRICAL SITE PLAN E011. TRENCHING, BACKFILL AND SITE RESTORATION BY S.C.
REFER TO SHEET C-111 FOR CONTINUATION OF SITE WORK
WATER PIPING SHO
FOR REFERENCE O
COOLING TOWER F
SHOWN FOR REFER
ONLY.
NEW COOLING TOWER ENCLOSURE REFER TO M.E.P. DWGS.
BUS SHELTER
Campus Map Sign
Sign
LAWN
CLL
1
C106
MDA
6
12
15
19
5
7
587
C.B.
Rim. 586.79
VIT. TILE
583.55'
OHW

MVCC - PARTIAL UTILITY PLAN

WORK AREA B

0 10 20 40 60
SCALE IN FEET

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

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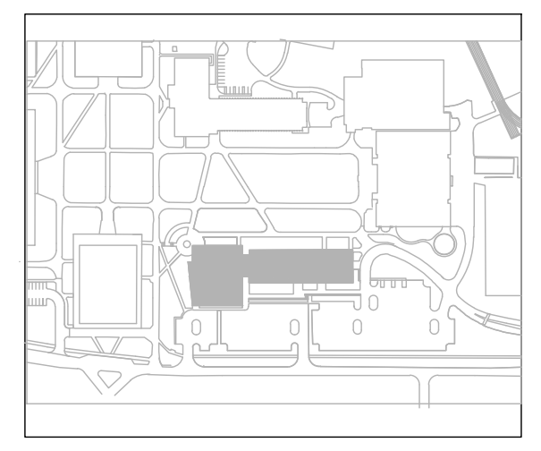
KEY PLAN:



PLAN NORTH

PROJECT:

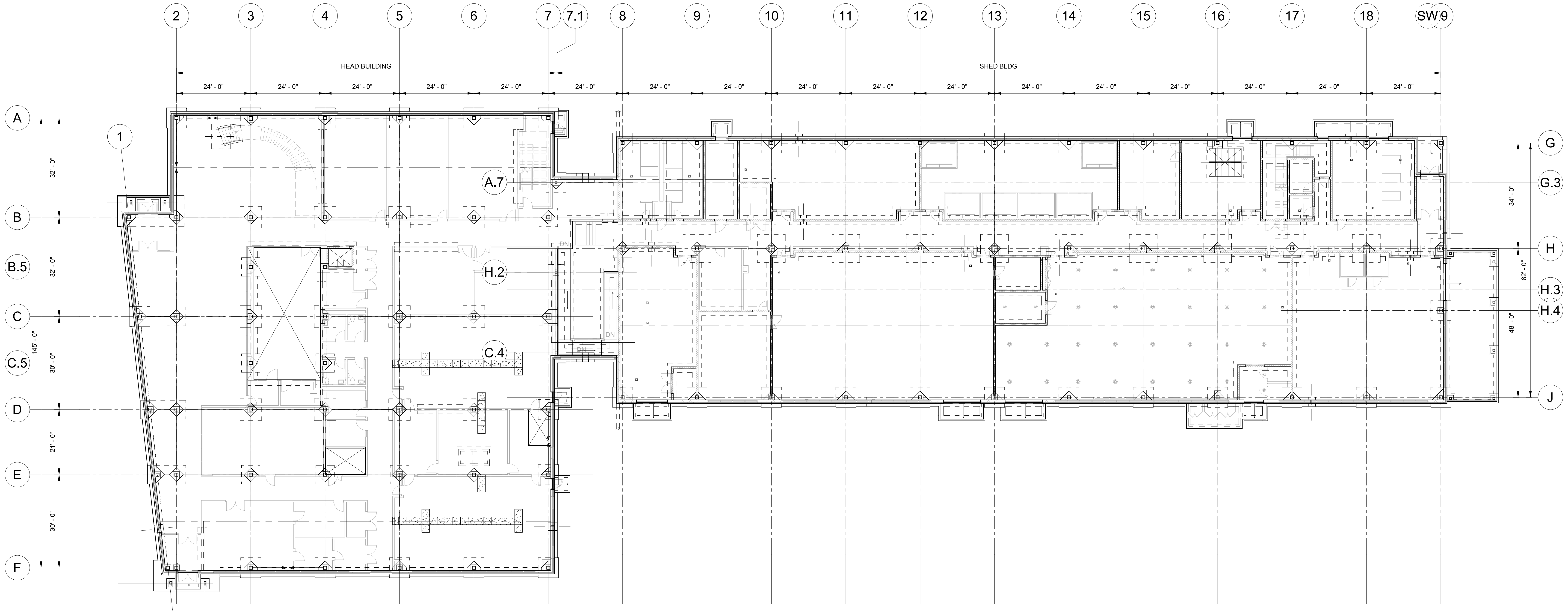
S & T BUILDING
REPLACEMENT

DRAWING TITLE:

PARTIAL UTILITY PLAN

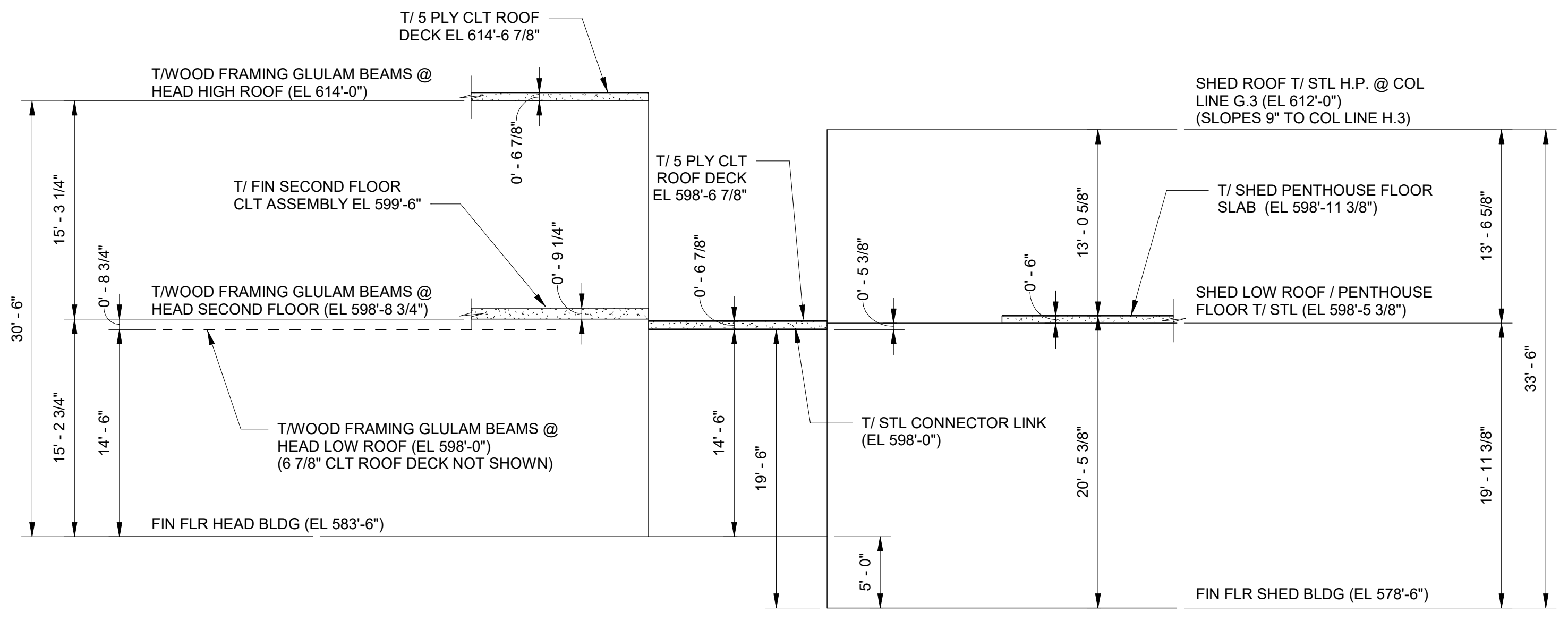
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

C-111



1 / S-100 FOUNDATION PLAN - OVERALL
1/16" = 1'-0"

NOTES:
SEE DWGS S-101 AND S-102 FOR PLAN NOTES FOR HEAD AND SHED BUILDINGS, RESPECTIVELY.


T/ 5 PLY CLT ROOF DECK EL 614'-6 7/8"
T/WOOD FRAMING GLULAM BEAMS @ HEAD HIGH ROOF (EL 614'-0")
T/ FIN SECOND FLOOR CLT ASSEMBLY EL 599'-6"
T/WOOD FRAMING GLULAM BEAMS @ HEAD SECOND FLOOR (EL 598'-8 3/4")
T/WOOD FRAMING GLULAM BEAMS @ HEAD LOW ROOF (EL 598'-0") (6 7/8" CLT ROOF DECK NOT SHOWN)
FIN FLR HEAD BLDG (EL 583'-6")
T/ 5 PLY CLT ROOF DECK EL 598'-6 7/8"
T/ STL CONNECTOR LINK (EL 598'-0")
SHED ROOF T/ STL H.P. @ COL LINE G.3 (EL 612'-0") (SLOPES 9" TO COL LINE H.3)
T/ SHED PENTHOUSE FLOOR SLAB (EL 598'-11 3/8")
SHED LOW ROOF / PENTHOUSE FLOOR T/ STL (EL 598'-5 3/8")
FIN FLR SHED BLDG (EL 578'-6")
30' - 6"
15' - 3 1/4"
15' - 2 3/4"
0' - 8 3/4"
14' - 6"
0' - 6 7/8"
0' - 9 1/4"
0' - 6 7/8"
14' - 6"
19' - 6"
0' - 5 3/8"
5' - 0"
13' - 0 5/8"
0' - 6"
20' - 5 3/8"
13' - 6 5/8"
19' - 11 3/8"
33' - 6"

BUILDING ELEVATION DIAGRAM

BPSP-1 BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENTS GENERAL NOTES:

A. REFERENCED GEOTECHNICAL INFORMATION AND REPORTS:

1. THE BUILDING PAD SITE PREPARATION WITH GROUND IMPROVEMENTS, THE FOUNDATION SYSTEM AND DESIGN PARAMETERS, AND THE GENERAL NOTES PRESENTED ON THE DRAWINGS AND WITHIN THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION CONTAINED WITHIN THE FOLLOWING REFERENCED GEOTECHNICAL INFORMATION AND REPORTS AS PREPARED BY CME ASSOCIATES, INC., INCLUDING VARIOUS EMAIL COMMUNICATIONS AND MULTIPLE CONFERENCE CALLS BETWEEN CME ASSOCIATES AND MEMBERS OF THE PROJECT TEAM THROUGHOUT THE DESIGN AND DOCUMENT PREPARATION PROCESS.

   a. SUBSURFACE EXPLORATION AND FOUNDATION RECOMMENDATION REPORT, MOHAWK VALLEY COMMUNITY COLLEGE SCIENCE AND TECHNOLOGY BUILDING, UTICA NY, CME REPORT NO. 28107B-01-0224, DATED FEBRUARY 23, 2024.

   b. SUBSURFACE EXPLORATION AND FOUNDATION RECOMMENDATION REPORT – ADDENDUM 1, MOHAWK VALLEY COMMUNITY COLLEGE SCIENCE AND TECHNOLOGY BUILDING, UTICA NY, CME REPORT NO. 28107B-02-0824, DATED AUGUST 05, 2024.

B. THE RESULTS OF THE SUBSURFACE CONDITIONS IDENTIFIED IN CME'S SUBSURFACE EXPLORATIONS AND TEST PITS AT THE PROJECT SITE INDICATE THE SITE CONTAINS UNSUITABLE / UNRELIABLE BEARING MATERIALS (EXISTING UNCONTROLLED FILL) RANGING FROM ABOUT 3-FEET TO 13-FEET BELOW EXISTING GRADES, UNDERLAIN BY A BURIED ORGANIC LAYER (TO APPROXIMATELY 8 TO 11 FEET BELOW EXISTING GRADE IN AREAS). THE EXISTING FILL MATERIAL DOES NOT APPEAR TO HAVE BEEN PLACED IN A PREPARED MANNER AND MEETS THE BUILDING CODE DEFINITION OF "UNPREPARED FILL". UNPREPARED FILL IS ASSIGNED A ZERO-BEARING CAPACITY BY THE BUILDING CODE AND IS DEEMED "UNSUITABLE SOILS". THE BURIED ORGANIC LAYER IS ALSO NOT RELIABLE BEARING MATERIAL TO SUPPORT BUILDING FOUNDATIONS AND SLABS-ON-GRADES. REFER TO THE ABOVE NOTED REPORTS CONTAINED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

   BASED ON THE INFORMATION PROVIDED AND DISCUSSED, THE EXISTING SUBSURFACE CONDITIONS IDENTIFIED ARE NOT FAVORABLE TO SUPPORT THE PROPOSED STRUCTURES UTILIZING A "CONVENTIONAL" SHALLOW FOUNDATIONS AND SLABS-ON-GRADE SYSTEMS WITHOUT INCORPORATING A "GROUND IMPROVEMENT" SYSTEM.

   TO ALLOW THE INSTALLATION OF THE "CONVENTIONAL" SHALLOW FOUNDATIONS AND SLAB-ON-GRADE SYSTEM AS DESIGNED AND AS SHOWN ON THE CONTRACT DOCUMENTS FOR THE PROPOSED BUILDINGS, THE FOLLOWING GROUND IMPROVEMENT SYSTEM IS REQUIRED TO BE INSTALLED UNDER THE ENTIRE FOOTPRINT OF BOTH THE HEAD BUILDING AND THE SHED BUILDING.

C. GROUND IMPROVEMENT SYSTEM WITH AGGREGATE PIERS (aka: STONE COLUMNS) AND LOAD TRANSFER PLATFORMS (LTP):

1. THE "CONVENTIONAL" SHALLOW FOUNDATIONS AND SLAB-ON-GRADE SYSTEM AS DESIGNED AND AS SHOWN ON THE CONTRACT DOCUMENTS FOR THE PROPOSED BUILDINGS ASSUMES THE EXISTING FILL AND THE BURIED ORGANIC LAYER SHALL BE LEFT IN-PLACE AND SHALL BE IMPROVED VIA A GROUND IMPROVEMENT SYSTEM CONSISTING OF AGGREGATE PIERS AND LOAD TRANSFER PLATFORM (LTP). THE CONVENTIONAL SHALLOW FOOTING FOUNDATIONS AND SLABS-ON-GRADE SYSTEMS SHALL BEAR ON THE LOAD TRANSFER PLATFORM.

2. THE AGGREGATE PIER SYSTEM IS A PROPRIETARY GROUND IMPROVEMENT SYSTEM USED FOR SETTLEMENT CONTROL AND TO IMPROVE BEARING CHARACTERISTICS OF POOR OR WEAK SOILS. WITH THIS SYSTEM, AGGREGATE PIERS SHALL BE INSTALLED USING SPECIALTY DESIGNED TOOLING, WHICH LATERALLY DISPLACES THE SOILS AS THE ELEMENT IS INSTALLED. THE BEHAVIOR OF THE SOIL SURROUNDING THE AGGREGATE PIERS IS OFTEN IMPROVED DUE TO THE INCREASED LATERAL STRAIN THAT RESULTS FROM THE DISPLACED DRILLING TECHNIQUE.

3. THE AGGREGATE PIER GROUND IMPROVEMENT SYSTEM SHALL INCLUDE A LOAD TRANSFER PLATFORM (LTP) TO ASSIST IN LOAD TRANSFER BETWEEN THE FOUNDATION ELEMENTS AND THE AGGREGATE PIERS. THE LTP SHALL BE A "DELEGATED DESIGN" BY THE AGGREGATE PIER SPECIALTY SUBCONTRACTOR (GROUND IMPROVEMENT SUBCONTRACTOR) AND SHALL BE INSTALLED BY A SPECIALTY GROUND IMPROVEMENT SUBCONTRACTOR / EARTHWORK CONTRACTOR. THE LTP IS TYPICALLY COMPRISED OF WELL-COMPACTED GRANULAR MATERIAL, SUCH AS NYSDOT TYPE 2 SUBBASE COURSE MATERIAL (RUN-OF-CRUSH LIMESTONE).

4. THE AGGREGATE PIER GROUND IMPROVEMENT SYSTEM SHALL BE DESIGNED AND INSTALLED BY A SPECIALTY GROUND IMPROVEMENT SUBCONTRACTOR TO MEET THE PERFORMANCE SPECIFICATION AND GENERAL REQUIREMENTS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

5. THE GROUND IMPROVEMENT SYSTEM SHALL BE DESIGNED AND INSTALLED TO PROVIDE AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF (WITH A MINIMUM FACTOR OF SAFETY OF 2.0) FOR THE SUPPORT OF THE FOOTING FOUNDATIONS AND A MODULUS OF SUBGRADE REACTION OF 200 PCI FOR THE SUPPORT OF THE SLABS-ON-GRADE.

6. THE GROUND IMPROVEMENT SYSTEM SHALL BE DESIGNED AND INSTALLED BY A SPECIALTY SUBCONTRACTOR RESPONSIBLE FOR CREATING AN IMPROVED AND SUITABLE BUILDING PAD. THIS PROCEDURE REQUIRES CONTINUAL ON-SITE OBSERVATIONS AND TESTING BY THE OWNER PROVIDED INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE) SPECIAL INSPECTOR AND SHALL BE COMPLETED PRIOR TO ANY EXCAVATION FOR THE PROPOSED FOUNDATION SYSTEM.

7. REFER TO AGGREGATE PIERS SPECIFICATION SECTION 31 66 13 FOR ADDITIONAL INFORMATION RELATED TO THE REQUIREMENTS OF THE GROUND IMPROVEMENT SYSTEM.

8. DELEGATED DESIGN OF GROUND IMPROVEMENT SYSTEM

   a. THE DESIGN OF THE GROUND IMPROVEMENT SYSTEM SHALL BE DELEGATED TO THE SPECIALTY GROUND IMPROVEMENT SUBCONTRACTOR. THE DELEGATED DESIGN SHALL BE IN ACCORDANCE WITH NEW YORK STATE EDUCATION LAW (SECTION 29.3(b)(2) OF THE RULES OF THE BOARD OF REGENTS).

   b. AS PART OF THE DELEGATED DESIGN, THE SPECIALTY GROUND IMPROVEMENT SUBCONTRACTOR SHALL PREPARE A COMPLETE DESIGN AND INSTALLATION SUBMITTAL PACKAGE. THE SUBMITTAL PACKAGE SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL COMPUTATIONS (ORGANIZED IN A LOGICAL AND PROFESSIONAL MANNER), DESIGN METHODS, FACTORS OF SAFETY, BUILDING CODE COMPLIANCE CHECKS, EQUIPMENT'S TO BE USED, PROCEDURE OF INSTALLATION, MODULUS TEST SETUP, CRITERIA FOR ACCEPTANCE OF GROUND IMPROVEMENT ELEMENTS, AND ALL MATERIAL SPECIFICATIONS, QUALITY CONTROL AND WORKMANSHIP REQUIREMENTS. THE DESIGN AND INSTALLATION SUBMITTAL SHALL BE SIGNED AND SEALED BY THE SPECIALTY SUBCONTRACTORS LICENSED PROFESSIONAL ENGINEER (WHO IS CURRENTLY REGISTERED IN THE STATE OF NEW YORK) AND WHO IS RESPONSIBLE FOR THE PREPARATION OF THE DESIGN AND ASSOCIATED DOCUMENTATION OF THE GROUND IMPROVEMENT SYSTEM. THE DESIGN AND INSTALLATION PACKAGE SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER A MINIMUM OF FIFTEEN (15) BUSINESS DAYS IN ADVANCE OF THE PRE-INSTALLATION CONFERENCE FOR REVIEW AND COMMENT.

   c. REFER TO THE COLUMN SCHEDULE FOR THE SHED BUILDING (DRAWING S-701) AND THE GLULAM COLUMN SCHEDULE FOR THE HEAD BUILDING (DRAWING S-901) FOR THE MAXIMUM UN-FACTORED DESIGN LOADS AT EACH COLUMN SPREAD FOOTING.

   d. THE GROUND IMPROVEMENT SYSTEM SHALL BE DESIGNED FOR THE FOLLOWING UN-FACTORED DESIGN LOADS FOR THE CONTINUOUS WALL SPREAD FOOTINGS AT EACH BUILDING:

      - HEAD BUILDING: EXTERIOR (AROUND THE PERIMETER) = 12 KIPS PER LINEAR FOOT AT BOTTOM OF FOOTING.
      - HEAD BUILDING: INTERIOR = 12 KIPS PER LINEAR FOOT AT BOTTOM OF FOOTING.
      - SHED BUILDING AND CONNECTING LINK: EXTERIOR (AROUND THE PERIMETER) = 12 KIPS PER LINEAR FOOT AT BOTTOM OF FOOTING.
      - SHED BUILDING AND CONNECTING LINK: INTERIOR = 12 KIPS PER LINEAR FOOT AT BOTTOM OF FOOTING.

   e. THE GROUND IMPROVEMENT SYSTEM SHALL BE DESIGNED FOR THE FOLLOWING UN-FACTORED SLAB-ON-GRADE UNIFORM DESIGN LIVE LOADS AT EACH BUILDING (PLUS DEAD LOAD OF CONCRETE FLOOR SLAB) :

      - HEAD BUILDING (TYPICAL AREAS): 100 POUNDS PER SQUARE FOOT (PSF) + WEIGHT OF CONCRETE FLOOR SLAB.
      - SHED BUILDING AND CONNECTING LINK HEAD BUILDING:
        - TYPICAL AREAS W/ 6-INCH FLOOR SLAB THICKNESS: 100 POUNDS PER SQUARE FOOT (PSF) + WEIGHT OF CONCRETE FLOOR SLAB.
        - TYPICAL AREAS W/ 8-INCH FLOOR SLAB THICKNESS: 200 POUNDS PER SQUARE FOOT (PSF) + WEIGHT OF CONCRETE FLOOR SLAB.

9. LOAD TESTING OF GROUND IMPROVEMENT SYSTEM

   a. A MINIMUM OF TWO (2) STATIC LOAD TESTS (SOIL MODULUS TEST) SHALL BE CONDUCTED IN CONFORMANCE WITH THE AGGREGATE PIERS SPECIFICATIONS (SECTION 31 66 13) AND THE APPROVED AGGREGATE PIER DESIGN SUBMITTAL, AND IN GENERAL CONFORMANCE WITH ASTM D-1143. THE TEST AGGREGATE PIER INSTALLATION AND LOAD TESTING SHALL OCCUR IN THE PRESENCE OF THE OWNER PROVIDED INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE), AT LOCATIONS SELECTED BY THE ARCHITECT / ENGINEER.

   b. THE LOAD TESTS SHALL BE PERFORMED ON SACRIFICIAL AGGREGATE PIERS. THE LOAD TESTS SHALL BE CONSIDERED SATISFACTORY WHEN ALL OF THE ACCEPTANCE CRITERIA SET FORTH BY THE SPECIALTY GROUND IMPROVEMENT DESIGN ENGINEER ARE MET AND ACCEPTED BY THE ARCHITECT / ENGINEER.

10. SPECIAL INSPECTION OF GROUND IMPROVEMENT SYSTEM

   a. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED PRE-APPROVED TESTING AGENCY AND INSPECTION PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE) TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS DURING CONSTRUCTION.

   b. THE OWNER PROVIDED IPGE IS REQUIRED TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS ON A CONTINUOUS BASIS WHILE ALL AGGREGATE PIERS ARE BEING INSTALLED AND DURING ALL LOAD TESTING. THE SPECIALTY GROUND IMPROVEMENT SUBCONTRACTOR SHALL SUBMIT ALL CERTIFICATIONS AND MATERIAL DATA SHEETS FOR THE MATERIAL DELIVERED TO THE JOBSITE FOR REVIEW AND CONFORMANCE VERIFICATION BY THE IPGE.

   c. REFER TO SPECIFICATION SECTION 01 45 33 "CODE REQUIRED SPECIAL INSPECTIONS AND PROCEDURES" PROVIDED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

11. ALTERNATE GROUND IMPROVEMENT SYSTEM OPTIONS

   a. THE ARCHITECT / ENGINEERS RECOGNIZE THAT SPECIALTY GROUND IMPROVEMENT SUBCONTRACTORS WHO HAVE THE CAPABILITIES TO DESIGN AND CONSTRUCT AN AGGREGATE PIER SYSTEM HAVE THEIR OWN PROPRIETARY METHODOLOGIES. THEREFORE, GROUND IMPROVEMENT SUBCONTRACTORS MAY NOT ALL AGREE ON WHETHER A SPECIFIC SITE IS A GOOD CANDIDATE FOR THEIR SPECIFIC PROPRIETARY AGGREGATE PIER SYSTEM.

   b. IF A GROUND IMPROVEMENT SUBCONTRACTOR BIDDING THIS PROJECT HAS AN ALTERNATE GROUND IMPROVEMENT SYSTEM THAT THEY BELIEVE IS BEST SUITED FOR THIS PROJECT SITE AND BELIEVE THEIR SYSTEM IS COST EFFECTIVE, THE BIDDER SHALL SUBMIT A DESIGN OF THEIR SPECIFIC RECOMMENDED GROUND IMPROVEMENT SYSTEM TO THE ARCHITECT / ENGINEER FOR REVIEW AND CONSIDERATION. ANY AND ALL ALTERNATE GROUND IMPROVEMENT SYSTEMS SHALL BE SUBMITTED AND PRE-APPROVED PRIOR TO BIDDING. **NO EXCEPTIONS.**

12. PRE-CONSTRUCTION EXISTING CONDITION SURVEYS AND VIBRATION MONITORING

   a. GROUND IMPROVEMENT OPERATIONS (INSTALLATION OF AGGREGATE PIERS) AND OTHER NEW CONSTRUCTION AT THE PROJECT SITE WILL CAUSE GROUND VIBRATION WHICH MAY CAUSE DAMAGE TO NEARBY STRUCTURES AND SURROUNDING UTILITIES.

   b. THE GROUND IMPROVEMENT SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A PRE-CONSTRUCTION EXISTING CONDITION SURVEY OF THE AREAS OF THE NEARBY STRUCTURES AND SURROUNDING UTILITIES, WHICH MAY BE AFFECTED BY THE GROUND IMPROVEMENT OPERATIONS AND NEW CONSTRUCTION OF THE PROPOSED STRUCTURES. THIS SURVEY SHALL BE PERFORMED PRIOR TO THE START OF ANY GROUND IMPROVEMENT OPERATIONS.

   c. THE PRE-CONSTRUCTION EXISTING CONDITION SURVEY SHALL BE PERFORMED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (LPE) WHO HAS BEEN HIRED BY THE GROUND IMPROVEMENT SUBCONTRACTOR. THE SUBCONTRACTOR'S LPE SHALL HAVE A MINIMUM OF TEN (10) YEARS OF DEMONSTRABLE SIMILAR EXPERIENCE. THE SUBCONTRACTOR'S LPE SHALL ASSESS DAMAGE POTENTIAL, BASED ON THEIR PLANNED WORK AND SHALL SUGGEST ANY ADJUSTMENTS NECESSARY TO THE GROUND IMPROVEMENT PROGRAM TO ELIMINATE DAMAGE.

   d. THE CONDITION OF THE EXISTING STRUCTURES SHALL BE CAREFULLY ASSESSED BY THE SUBCONTRACTOR'S LPE, AND A CONSTRUCTION PLAN SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW AND COMMENT WHICH CLEARLY DEMONSTRATES THE WORK, THE VIBRATION MONITORING NECESSARY, AND THE THRESHOLD VIBRATION LIMITS TO ELIMINATE POTENTIAL DAMAGE TO THE EXISTING STRUCTURES AND SURROUNDING UTILITIES DURING CONSTRUCTION.

   e. THE GROUND IMPROVEMENT SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A VIBRATION MONITORING PROGRAM. THE INTENT OF THE PROGRAM IS TO ESTABLISH PROTOCOL TO DOCUMENT VIBRATIONS IN REAL TIME DURING CONSTRUCTION AND VIBRATORY SOIL COMPACTION, SUCH THAT ADJACENT STRUCTURES ARE NOT DAMAGED DURING THE CONSTRUCTION ACTIVITIES.

      ADDITIONALLY, THE GROUND IMPROVEMENT SUBCONTRACTOR'S LPE SHALL ASSESS WHETHER CONSTRUCTION ACTIVITIES, SUCH AS INSTALLATION OF THE AGGREGATE PIERS, WILL CAUSE SOIL DENSIFICATION, WHICH MAY LEAD TO ADJACENT STRUCTURE SETTLEMENT.

      THE VIBRATION MONITORING PROGRAM SHALL BE PREPARED AND SIGNED BY THE GROUND IMPROVEMENT SUBCONTRACTOR'S NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (LPE) WHO HAS DEMONSTRABLE EXPERIENCE IN THIS TYPE OF WORK.

      THE LATERAL AND VERTICAL EXTENTS OF THE PRE-CONSTRUCTION EXISTING CONDITION SURVEY AREA, VIBRATION MONITORING POINTS, THRESHOLD VIBRATION LIMITS, VIBRATION RECORDING, AND REPORTING PROTOCOLS, AND OTHER PERTINENT ITEMS SHALL BE AS DEFINED IN THE CONSTRUCTION DOCUMENTS AND IF DEEMED APPROPRIATE, THRESHOLD VIBRATION LIMITS, SHALL BE ADJUSTED BY THE GROUND IMPROVEMENT SUBCONTRACTOR'S LPE.

      AS PART OF THE CONSTRUCTION PHASE SUBMITTAL PROCESS, THE VIBRATION MONITORING PLAN SHALL PROVIDED AS PART OF THE REQUIRED PRE-CONSTRUCTION SUBMITTAL TO THE ARCHITECT / ENGINEER.

D. REFER TO PROJECT SPECIFICATION SECTION 312000 – "BUILDING EARTH MOVING" FOR ADDITIONAL INFORMATION.

E. REFER TO DRAWINGS S-101 AND S-102 FOR GENERAL AREA SPECIFIC BUILDING FOUNDATION PLAN NOTES.

F. REFER TO DRAWING S401 FOR FOUNDATIONS / BUILDING SITE PREPARATION GENERAL NOTES FOR ADDITIONAL INFORMATION.

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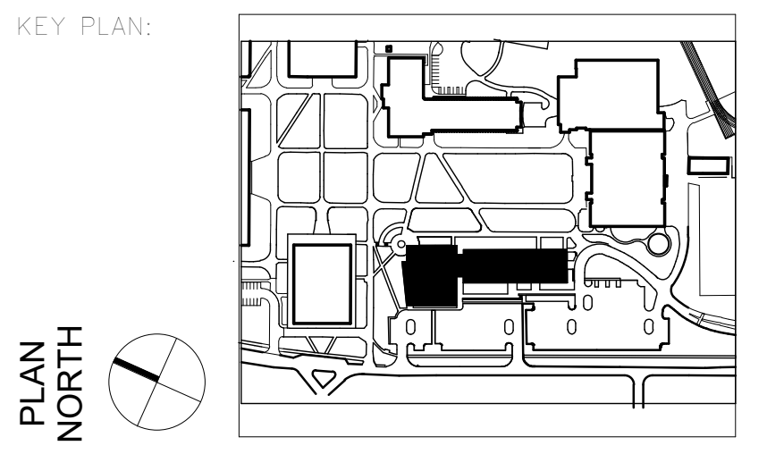
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:

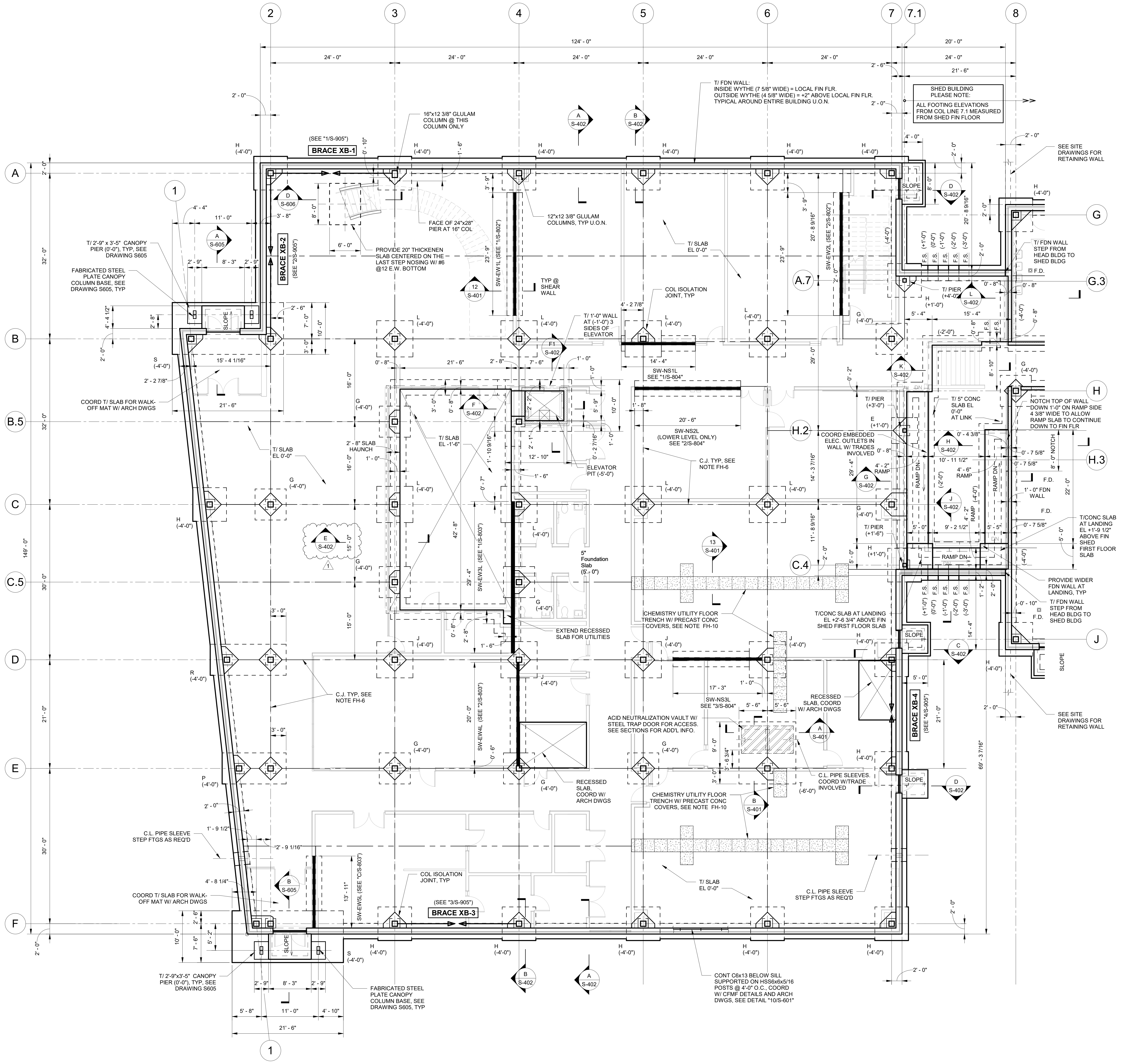


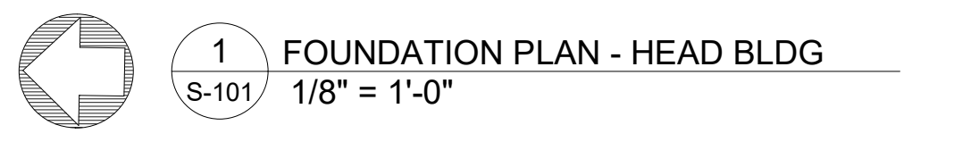
PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
FOUNDATION PLAN – OVERALL

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

S-100


2
3
4
5
6
7
7.1
8
A
B
B.5
C
C.5
D
E
F
1
A.7
G
G.3
H
H.2
H.3
C.4
J
124' - 0"
24' - 0"
20' - 0"
21' - 6"
149' - 0"
32' - 0"
30' - 0"
21' - 0"
69' - 3 7/16"
T/ FDN WALL:
INSIDE WYTHE (7 5/8" WIDE) = LOCAL FIN FLR.
OUTSIDE WYTHE (4 5/8" WIDE) = +2" ABOVE LOCAL FIN FLR.
TYPICAL AROUND ENTIRE BUILDING U.O.N.
SHED BUILDING
PLEASE NOTE:
ALL FOOTING ELEVATIONS FROM COL LINE 7.1 MEASURED FROM SHED FIN FLOOR
SEE SITE DRAWINGS FOR RETAINING WALL
16"x12 3/8" GLULAM COLUMN @ THIS COLUMN ONLY
(SEE "1/S-905")
BRACE XB-1
BRACE XB-2
(SEE "2/S-905")
BRACE XB-3
(SEE "3/S-905")
BRACE XB-4
(SEE "4/S-905")
H (-4'-0")
FACE OF 24"x28" PIER AT 16" COL
12"x12 3/8" GLULAM COLUMNS, TYP U.O.N.
PROVIDE 20" THICKENEN SLAB CENTERED ON THE LAST STEP NOSING W/ #6 @12 E.W. BOTTOM
T/ 2'-9" x 3'-5" CANOPY PIER (0'-0"), TYP, SEE DRAWING S605
FABRICATED STEEL PLATE CANOPY COLUMN BASE, SEE DRAWING S605, TYP
SW-EW1L (SEE "1/S-802")
TYP @ SHEAR WALL
SW-EW2L (SEE "2/S-802")
T/ SLAB EL 0'-0"
COL ISOLATION JOINT, TYP
T/ 1'-0" WALL AT (-1'-0") 3 SIDES OF ELEVATOR
SW-NS1L SEE "1/S-804"
SW-NS2L (LOWER LEVEL ONLY) SEE "2/S-804"
SW-NS3L SEE "3/S-804"
C.J. TYP, SEE NOTE FH-6
COORD T/ SLAB FOR WALK-OFF MAT W/ ARCH DWGS
2' - 8" SLAB HAUNCH
T/ SLAB EL -1'-6"
ELEVATOR PIT (-5'-0")
5" Foundation Slab (5' - 0")
SW-EW3L (SEE "1/S-803")
SW-EW4L (SEE "2/S-803")
SW-EW5L (SEE "C/S-803")
EXTEND RECESSED SLAB FOR UTILITIES
RECESSED SLAB, COORD W/ ARCH DWGS
CHEMISTRY UTILITY FLOOR TRENCH W/ PRECAST CONC COVERS, SEE NOTE FH-10
ACID NEUTRALIZATION VAULT W/ STEEL TRAP DOOR FOR ACCESS. SEE SECTIONS FOR ADD'L INFO.
C.L. PIPE SLEEVES. COORD W/TRADE INVOLVED
C.L. PIPE SLEEVE STEP FTGS AS REQ'D
CONT C6x13 BELOW SILL SUPPORTED ON HSS6x6x5/16 POSTS @ 4'-0" O.C., COORD W/ CFMF DETAILS AND ARCH DWGS, SEE DETAIL "10/S-601"
T/ FDN WALL STEP FROM HEAD BLDG TO SHED BLDG
T/ PIER (+4'-0")
T/ PIER (+3'-0")
T/ PIER (+1'-6")
COORD EMBEDDED ELEC. OUTLETS IN WALL W/ TRADES INVOLVED
T/ 5" CONC SLAB EL 0'-0" AT LINK
NOTCH TOP OF WALL DOWN 1'-0" ON RAMP SIDE 4 3/8" WIDE TO ALLOW RAMP SLAB TO CONTINUE DOWN TO FIN FLR
4' - 2" RAMP
4' - 6" RAMP
RAMP DN
1' - 0" FDN WALL
F.D.
F.S.
T/CONC SLAB AT LANDING EL +1'-9 1/2" ABOVE FIN SHED FIRST FLOOR SLAB
T/CONC SLAB AT LANDING EL +2'-6 3/4" ABOVE FIN SHED FIRST FLOOR SLAB
PROVIDE WIDER FDN WALL AT LANDING, TYP
SLOPE
A S-402
B S-402
C S-402
D S-402
E S-402
F S-402
F1 S-402
G S-402
H S-402
J S-402
K S-402
L S-402
12 S-401
13 S-401
A S-401
B S-401
A S-605
B S-605
D S-606


1 S-101 FOUNDATION PLAN - HEAD BLDG
1/8" = 1'-0"

FOUNDATION PLAN NOTES - HEAD BLDG:

FH-1. LOCAL PROJECT REF DATUM FOR THE HEAD BUILDING FINISH FIRST FLOOR IS AT ELEV. 583'-6" (LOCAL EL 0'-0")
NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR IS 5'-0" HIGHER THAN THE LOCAL PROJECT REF DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR.

FH-2. A. SEE PLAN FOR TOP OF SLAB ELEVATIONS, MEASURED FROM REF DATUM IN NOTE FH-1

B. TOPS OF ALL NEW FOOTINGS ARE MEASURED FROM LOCAL REFERENCE DATUM IN NOTE FH-1 (TOP OF LOCAL FIN FIRST FLOOR) AND ARE SHOWN THUS (-5'-0") FROM LOCAL FIN FLOOR REFERENCE DATUM

FH-3. CONCRETE FLOOR SLABS ON GRADE SHALL BE 5" NORMAL WEIGHT CONCRETE W/ #4@12 E.W. TOP. SEE TYP DETAILS ON DRAWING S-401. SUPPORT REINFORCEMENT ON BAR SUPPORTS IN ACCORDANCE WITH THE SPECIFICATIONS AND ACCEPTABLE PRACTICES.

FH-4. SEE DWG S-401 FOR FOUNDATION DETAILS AND NOTES. SEE DRAWING S-904 FOR DESIGN PARAMETERS.

FH-5. GENERAL CONTRACTOR SHALL INSTALL SLEEVES PROVIDED BY PLUMBING AND ELECTRICAL CONSTRUCTION CONTRACTORS FOR PIPE PENETRATIONS THROUGH THE FOUNDATION WALLS AS REQ'D. COORDINATE SIZE, QUANTITY , LOCATION AND SEQUENCE OF PLACEMENT W/ TRADE INVOLVED.

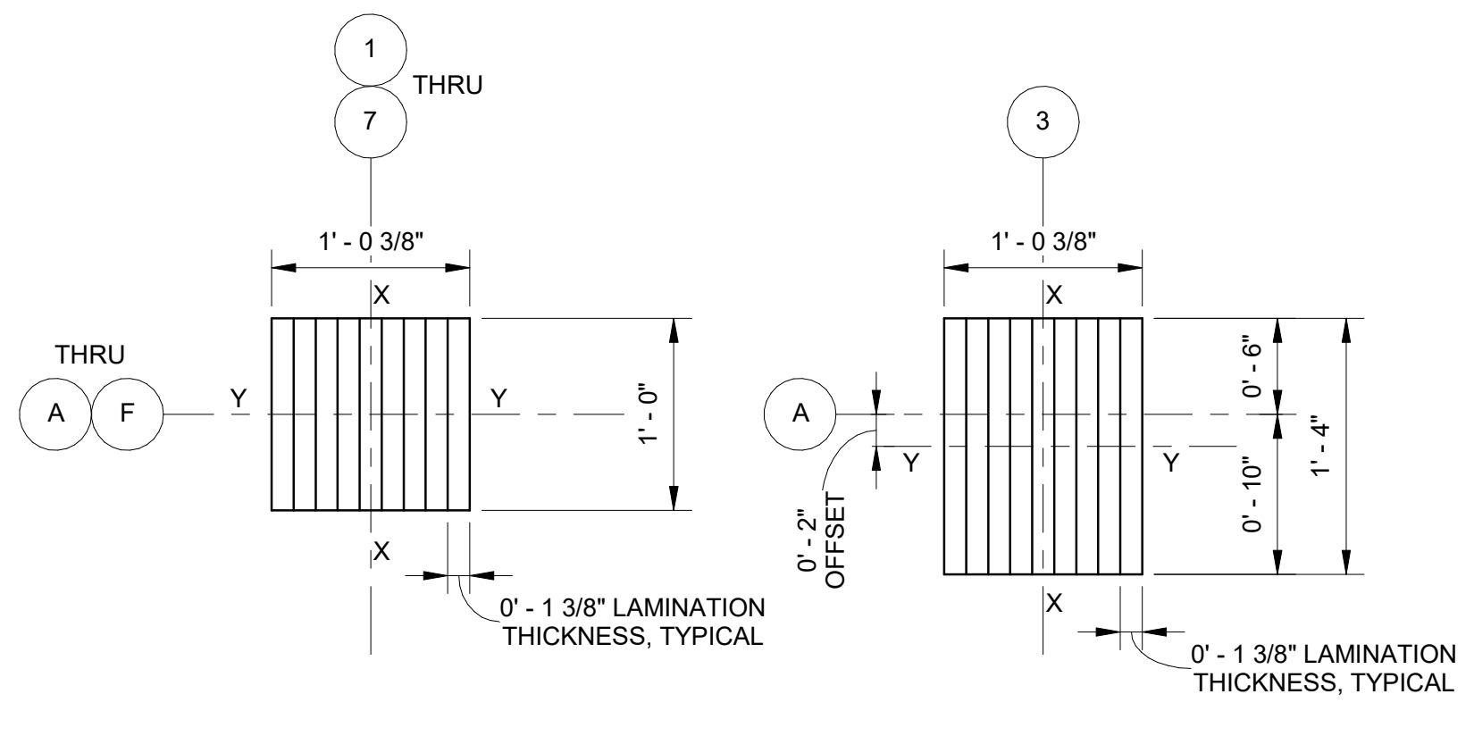
FH-6. SLAB CONSTRUCTION AND CRACK CONTROL JOINTS ARE SCHEMATICALLY SHOWN. CONTRACTOR MAY PROVIDE PLAN LAYOUT FOR PROPOSED ALTERNATE JOINT LOCATIONS FOR APPROVAL. SEE DRAWING S-401 FOR TYP JOINT DETAILS.

FH-7. SEE DRAWING S-100, NOTE BPSP-1 FOR BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENTS GENERAL NOTES.

FH-8. ALL FOOTINGS SHALL BEAR ON A SATISFACTORILY INSTALLED LOAD TRANSFER PLATFORM (LTP), EXAMINED AND APPROVED BY THE INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE), JUST PRIOR TO FOOTING CONSTRUCTION.

FH-9. ALL SLABS-ON GRADE SHALL BEAR ON A SATISFACTORILY INSTALLED SUBBASE COURSE, PLACED OVER A SATISFACTORILY INSTALLED LOAD TRANSFER PLATFORM (LTP), EXAMINED AND APPROVED BY THE INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE), JUST PRIOR TO SLAB CONSTRUCTION.

FH-10. CHEMISTRY ROOM UTILITY TRENCHES:
COORDINATE SIZE AND LOCATION OF TRENCHING WITH ALL TRADES INVOLVED. INTENT OF TRENCHES IS TO SUPPLY UTILITIES FROM WITHIN THE WALLS TO EACH BENCHTOP. SEE ARCH AND MEP DRAWINGS FOR ADD'L INFO. TRENCHES SHALL BE PROVIDED WITH PRECAST CONCRETE REMOVABLE COVERS. COORDINATE EXTENT OF COVERS WITH ALL TRADES INVOLVED.


1
THRU
7
3
1' - 0 3/8"
X
Y
THRU
A
F
1' - 0"
0' - 6"
0' - 10"
1' - 4"
0' - 2" OFFSET
0' - 1 3/8" LAMINATION THICKNESS, TYPICAL

2 S-101 WOOD COLUMN ORIENTATION PLAN - HEAD BLDG
1" = 1'-0"

NOTES:
1. ALL COLUMNS SHALL BE ORIENTED IN THE SAME DIRECTION AS SHOWN.
2. SEE DRAWING S-901 FOR WOOD COLUMN - STANDOFF SUPPORT POST ASSEMBLY DETAILS AT BASES OF ALL COLUMNS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCEMENT
A	3'-0"x3'-0"x16"	6-#4 E.W. BOT
B	3'-6"x3'-6"x16"	4-#5 E.W. BOT
C	4'-0"x4'-0"x16"	5-#5 E.W. BOT
D	4'-6"x4'-6"x16"	6-#5 E.W. BOT
E	5'-0"x5'-0"x16"	7-#5 E.W. BOT
F	5'-6"x5'-6"x16"	7-#6 E.W. BOT
G	6'-0"x6'-0"x18"	7-#6 E.W. BOT
H	6'-6"x6'-6"x20"	7-#7 E.W. BOT
J	7'-0"x7'-0"x20"	8-#7 E.W. BOT
K	7'-6"x7'-6"x22"	9-#7 E.W. BOT
L	8'-0"x8'-0"x22"	10-#7 E.W. BOT
M	8'-6"x8'-6"x24"	9-#8 E.W. BOT
N	9'-0"x9'-0"x24"	10-#8 E.W. BOT
P	12'-0"x6'-0"x18"	7-#8 x 11'-6" T&B 14-#8 x 5'-6" T&B
R	14'-6"x6'-0"x18"	7-#8 x 14'-0" T&B 16-#8 x 5'-6" T&B
S	21'-6"x10'-0"x18"	12-#8 x 21'-0" T&B 23-#8 x 9'-6" T&B
T	12'-0"x11'-0"x18"	12-#8 x 10'-6" T&B 13-#8 x 11'-6" T&B

NOTE:
SOME MARKS SHOWN ON SCHEDULE MAY NOT OCCUR ON PLAN.

KEY:

▬ - SHEAR WALLS ABOVE TO LOW ROOF AND SECOND FLOOR, SEE DWGS S-802 THRU S-804 FOR ADD'L INFO

→← BRACE - DIAGONAL STEEL ROD X-BRACING, SEE DWG S-905 FOR ADD'L INFO

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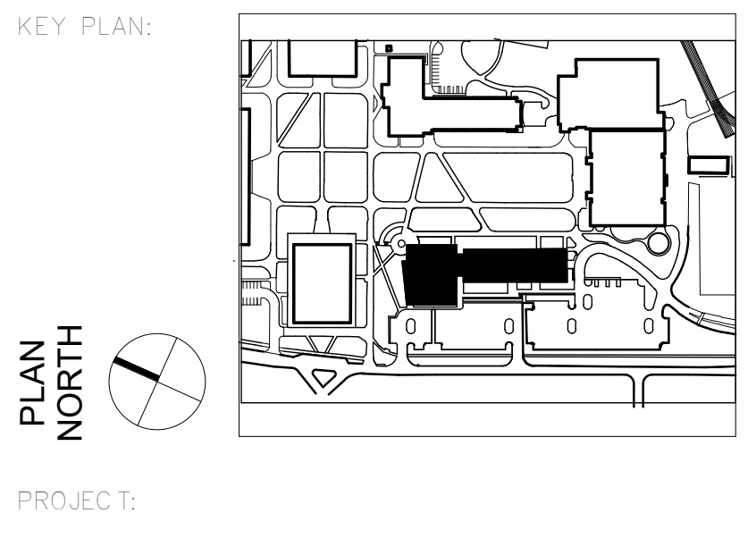
KEY PLAN:



PROJECT:

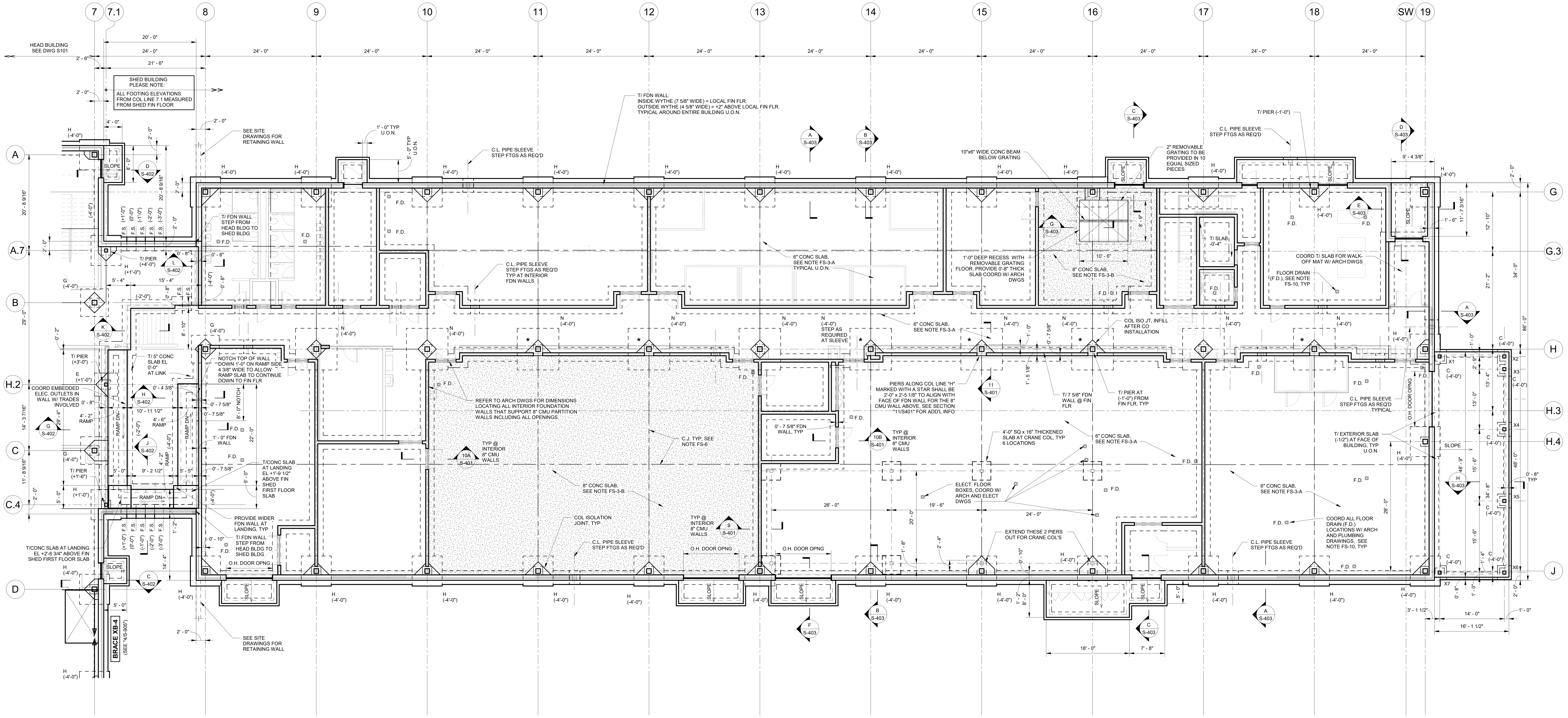
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – FOUNDATION PLAN

PROJECT NO: 23000	DATE: 9/23/25
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

S-101


7
7.1
8
9
10
11
12
13
14
15
16
17
18
SW
19
A
A.7
B
H.2
C
C.4
D
G
G.3
H
H.3
H.4
J
HEAD BUILDING SEE DWG S101
20' - 0"
24' - 0"
21' - 6"
2' - 6"
SHED BUILDING PLEASE NOTE: ALL FOOTING ELEVATIONS FROM COL LINE 7.1 MEASURED FROM SHED FIN FLOOR
SEE SITE DRAWINGS FOR RETAINING WALL
1' - 0" TYP U.O.N.
5' - 0" TYP U.O.N.
C.L. PIPE SLEEVE STEP FTGS AS REQ'D
T/ FDN WALL: INSIDE WYTHE (7 5/8" WIDE) = LOCAL FIN FLR. OUTSIDE WYTHE (4 5/8" WIDE) = +2" ABOVE LOCAL FIN FLR. TYPICAL AROUND ENTIRE BUILDING U.O.N.
10"x6" WIDE CONC BEAM BELOW GRATING
2" REMOVABLE GRATING TO BE PROVIDED IN 10 EQUAL SIZED PIECES
T/ PIER (-1'-0")
9' - 4 3/8"
H (-4'-0")
N (-4'-0")
G (-4'-0")
C (-4'-0")
T/ FDN WALL STEP FROM HEAD BLDG TO SHED BLDG
F.D.
F.S.
SLOPE
T/ PIER (+4'-0")
H (+1'-0")
T/ PIER (+3'-0")
E (+1'-0")
T/ PIER (+1'-6")
T/ 5" CONC SLAB EL 0'-0" AT LINK
NOTCH TOP OF WALL DOWN 1'-0" ON RAMP SIDE 4 3/8" WIDE TO ALLOW RAMP SLAB TO CONTINUE DOWN TO FIN FLR
COORD EMBEDDED ELEC. OUTLETS IN WALL W/ TRADES INVOLVED
RAMP DN
1' - 0" FDN WALL
T/CONC SLAB AT LANDING EL +1'-9 1/2" ABOVE FIN SHED FIRST FLOOR SLAB
PROVIDE WIDER FDN WALL AT LANDING, TYP
T/CONC SLAB AT LANDING EL +2'-6 3/4" ABOVE FIN SHED FIRST FLOOR SLAB
O.H. DOOR OPNG
BRACE XB-4 (SEE "4/S-905")
C.L. PIPE SLEEVE STEP FTGS AS REQ'D TYP AT INTERIOR FDN WALLS
6" CONC SLAB, SEE NOTE FS-3-A TYPICAL U.O.N.
1'-0" DEEP RECESS WITH REMOVABLE GRATING FLOOR, PROVIDE 0'-8" THICK SLAB COORD W/ ARCH DWGS
8" CONC SLAB, SEE NOTE FS-3-B
T/ SLAB -0'-4"
COORD T/ SLAB FOR WALK-OFF MAT W/ ARCH DWGS
FLOOR DRAIN (F.D.), SEE NOTE FS-10, TYP
6" CONC SLAB, SEE NOTE FS-3-A
STEP AS REQUIRED AT SLEEVE
COL ISO JT, INFILL AFTER CO INSTALLATION
REFER TO ARCH DWGS FOR DIMENSIONS LOCATING ALL INTERIOR FOUNDATION WALLS THAT SUPPORT 8" CMU PARTITION WALLS INCLUDING ALL OPENINGS
PIERS ALONG COL LINE "H" MARKED WITH A STAR SHALL BE 2'-0" x 2'-5 1/8" TO ALIGN WITH FACE OF FDN WALL FOR THE 8" CMU WALL ABOVE, SEE SECTION "11/S401" FOR ADD'L INFO
T/ 7 5/8" FDN WALL @ FIN FLR
T/ PIER AT (-1'-0") FROM FIN FLR, TYP
0' - 7 5/8" FDN WALL, TYP
TYP @ INTERIOR 8" CMU WALLS
C.J. TYP, SEE NOTE FS-6
4'-0" SQ x 16" THICKENED SLAB AT CRANE COL, TYP 6 LOCATIONS
ELECT. FLOOR BOXES, COORD W/ ARCH AND ELECT DWGS
C.L. PIPE SLEEVE STEP FTGS AS REQ'D TYPICAL
T/ EXTERIOR SLAB (-1/2") AT FACE OF BUILDING, TYP U.O.N.
COL ISOLATION JOINT, TYP
EXTEND THESE 2 PIERS OUT FOR CRANE COL'S
COORD ALL FLOOR DRAIN (F.D.) LOCATIONS W/ ARCH AND PLUMBING DRAWINGS, SEE NOTE FS-10, TYP
26' - 0"
19' - 6"
18' - 0"
7' - 8"
14' - 0"
16' - 1 1/2"
86' - 0"
34' - 0"
48' - 0"
X1
X2
X3
X4
X5
X6
X7
S-401
S-402
S-403

1 FOUNDATION PLAN - SHED BLDG
S-102 1/8" = 1'-0"

FOUNDATION PLAN NOTES - SHED BLDG:

FS-1. LOCAL PROJECT REF DATUM FOR THE SHED BUILDING FINISH FIRST FLOOR IS AT ELEV. 578'-6" (LOCAL EL 0'-0")
NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR IS 5'-0" LOWER THAN THE LOCAL PROJECT REF DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR.

FS-2. A. SEE PLAN FOR TOP OF SLAB ELEVATIONS, MEASURED FROM REF DATUM IN NOTE FS-1

B. TOPS OF ALL FOOTINGS ARE MEASURED FROM LOCAL REFERENCE DATUM IN NOTE F-1 (TOP OF LOCAL FIN FIRST FLOOR) AND ARE SHOWN THUS (-5'-0") FROM LOCAL FIN FLOOR REFERENCE DATUM

FS-3. A. SHED CONCRETE FLOOR SLABS ON GRADE SHALL BE 6" NORMAL WEIGHT CONCRETE W/ #4@12 E.W. TOP U.O.N.. SEE TYP DETAILS ON DRAWING S-401. SUPPORT REINFORCEMENT ON BAR SUPPORTS IN ACCORDANCE WITH THE SPECIFICATIONS AND ACCEPTABLE PRACTICES.

B. SHADED SHED CONCRETE FLOOR SLABS ON GRADE SHALL BE 8" NORMAL WEIGHT CONCRETE W/ #4@12 E.W. TOP AND BOTTOM. SEE SECT "F/S-403". SUPPORT REINFORCEMENT ON BAR SUPPORTS IN ACCORDANCE WITH THE SPECIFICATIONS AND ACCEPTABLE PRACTICES.

FS-4. SEE DWG S-401 FOR FOUNDATION DETAILS AND NOTES. SEE DRAWING S-601 FOR DESIGN PARAMETERS.

FS-5. GENERAL CONTRACTOR SHALL INSTALL SLEEVES PROVIDED BY PLUMBING AND ELECTRICAL CONSTRUCTION CONTRACTORS FOR PIPE PENETRATIONS THROUGH THE FOUNDATION WALLS AS REQ'D. COORDINATE SIZE, QUANTITY , LOCATION AND SEQUENCE OF PLACEMENT W/ TRADE INVOLVED.

FS-6. SLAB CONSTRUCTION AND CRACK CONTROL JOINTS ARE SCHEMATICALLY SHOWN. CONTRACTOR MAY PROVIDE PLAN LAYOUT FOR PROPOSED ALTERNATE JOINT LOCATIONS FOR APPROVAL. SEE DRAWING S-401 FOR TYP JOINT DETAILS.

FS-7. SEE DRAWING S-100, NOTE BPSP-1 FOR BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENTS GENERAL NOTES.

FS-8. ALL FOOTINGS SHALL BEAR ON A SATISFACTORILY INSTALLED LOAD TRANSFER PLATFORM (LTP), EXAMINED AND APPROVED BY THE INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE), JUST PRIOR TO FOOTING CONSTRUCTION.

FS-9. ALL SLABS-ON GRADE SHALL BEAR ON A SATISFACTORILY INSTALLED SUBBASE COURSE, PLACED OVER A SATISFACTORILY INSTALLED LOAD TRANSFER PLATFORM (LTP), EXAMINED AND APPROVED BY THE INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE), JUST PRIOR TO SLAB CONSTRUCTION.

FS-10. G.C. SHALL COORDINATE W/ ARCHITECTURAL AND PLUMBIMG DRAWINGS FOR ANY REQUIRED SLOPED SLAB ON GRADES TO FLOOR DRAINS (F.D.).

FS-11. HOUSE KEEPING CONCRETE PADS NOT SHOWN. REFER TO TRADE INVOLVED FOR REQUIREMENTS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCEMENT
A	3'-0"x3'-0"x16"	6-#4 E.W. BOT
B	3'-6"x3'-6"x16"	4-#5 E.W. BOT
C	4'-0"x4'-0"x16"	5-#5 E.W. BOT
D	4'-6"x4'-6"x16"	6-#5 E.W. BOT
E	5'-0"x5'-0"x16"	7-#5 E.W. BOT
F	5'-6"x5'-6"x16"	7-#6 E.W. BOT
G	6'-0"x6'-0"x18"	7-#6 E.W. BOT
H	6'-6"x6'-6"x20"	7-#7 E.W. BOT
J	7'-0"x7'-0"x20"	8-#7 E.W. BOT
K	7'-6"x7'-6"x22"	9-#7 E.W. BOT
L	8'-0"x8'-0"x22"	10-#7 E.W. BOT
M	8'-6"x8'-6"x24"	9-#8 E.W. BOT
N	9'-0"x9'-0"x24"	10-#8 E.W. BOT
P	12'-0"x6'-0"x18"	7-#8 x 11'-6" T&B 14-#8 x 5'-6" T&B
R	14'-6"x6'-0"x18"	7-#8 x 14'-0" T&B 16-#8 x 5'-6" T&B
S	21'-6"x10'-0"x18"	12-#8 x 21'-0" T&B 23-#8 x 9'-6" T&B
T	12'-0"x11'-0"x18"	12-#8 x 10'-6" T&B 13-#8 x 11'-6" T&B

NOTE:
SOME MARKS SHOWN ON SCHEDULE MAY NOT OCCUR ON PLAN.

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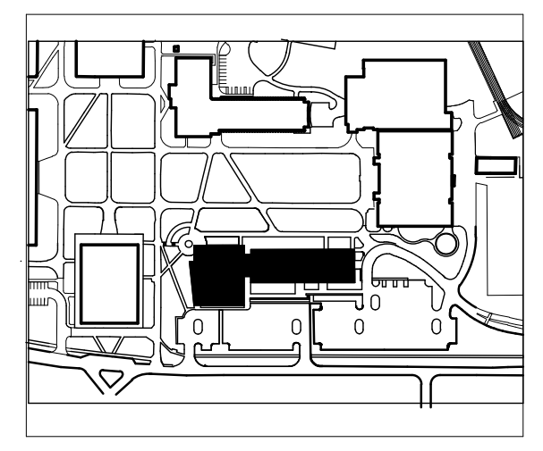
KEY PLAN:



PROJECT:

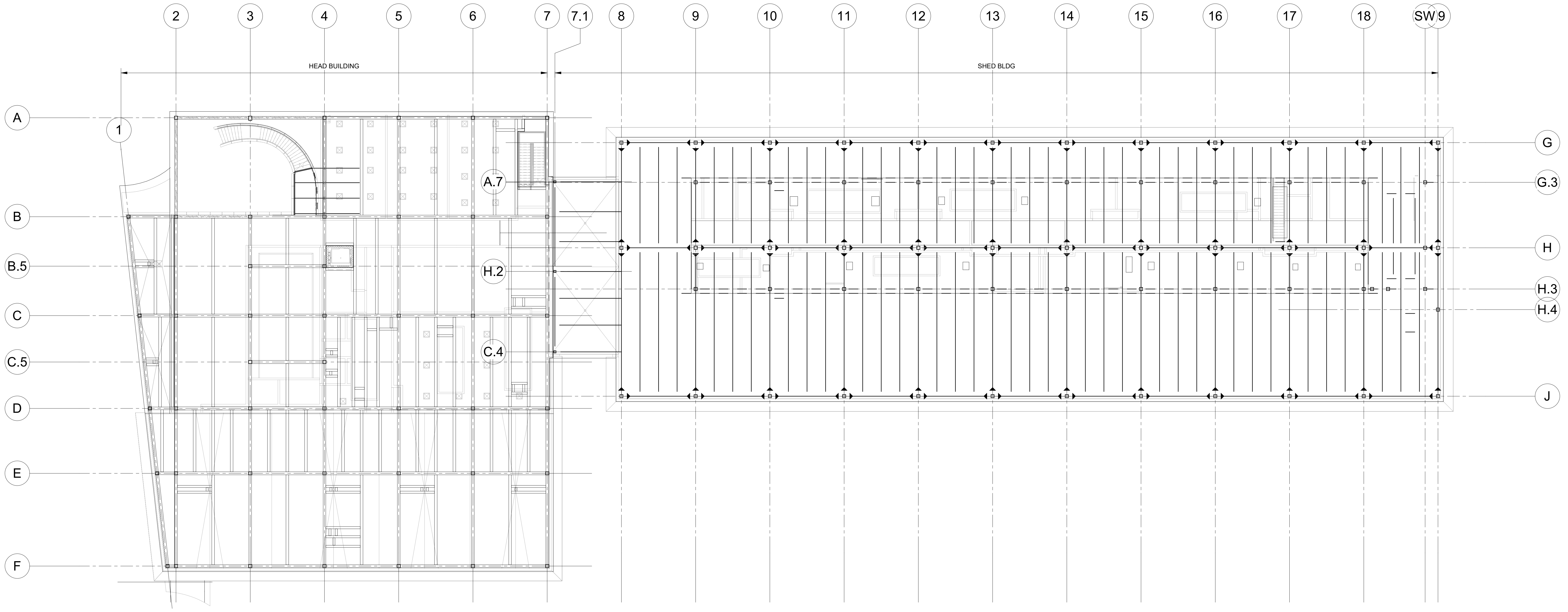
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SHED BUILDING – FOUNDATION PLAN

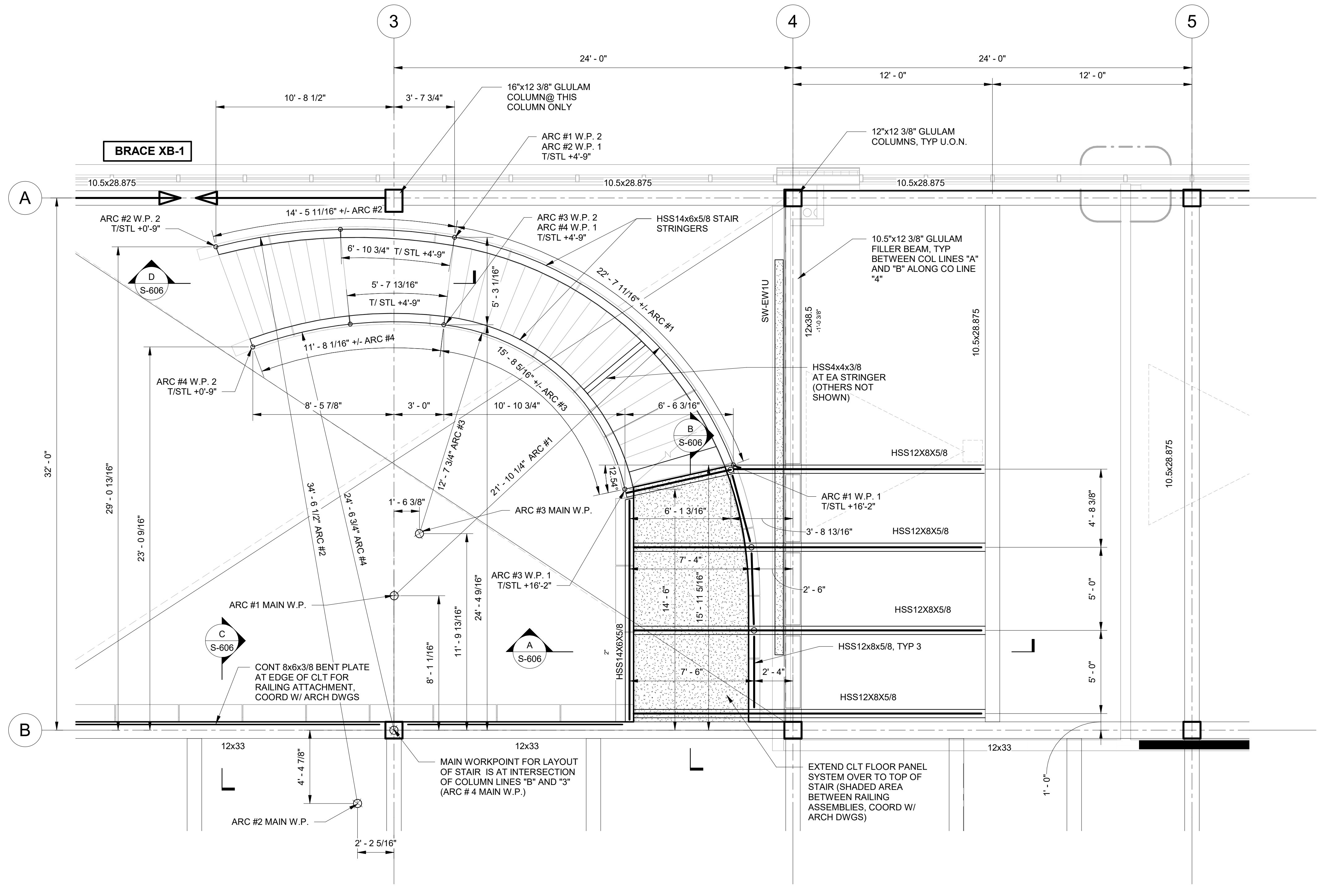
PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: 1/8" = 1'–0"

S-102

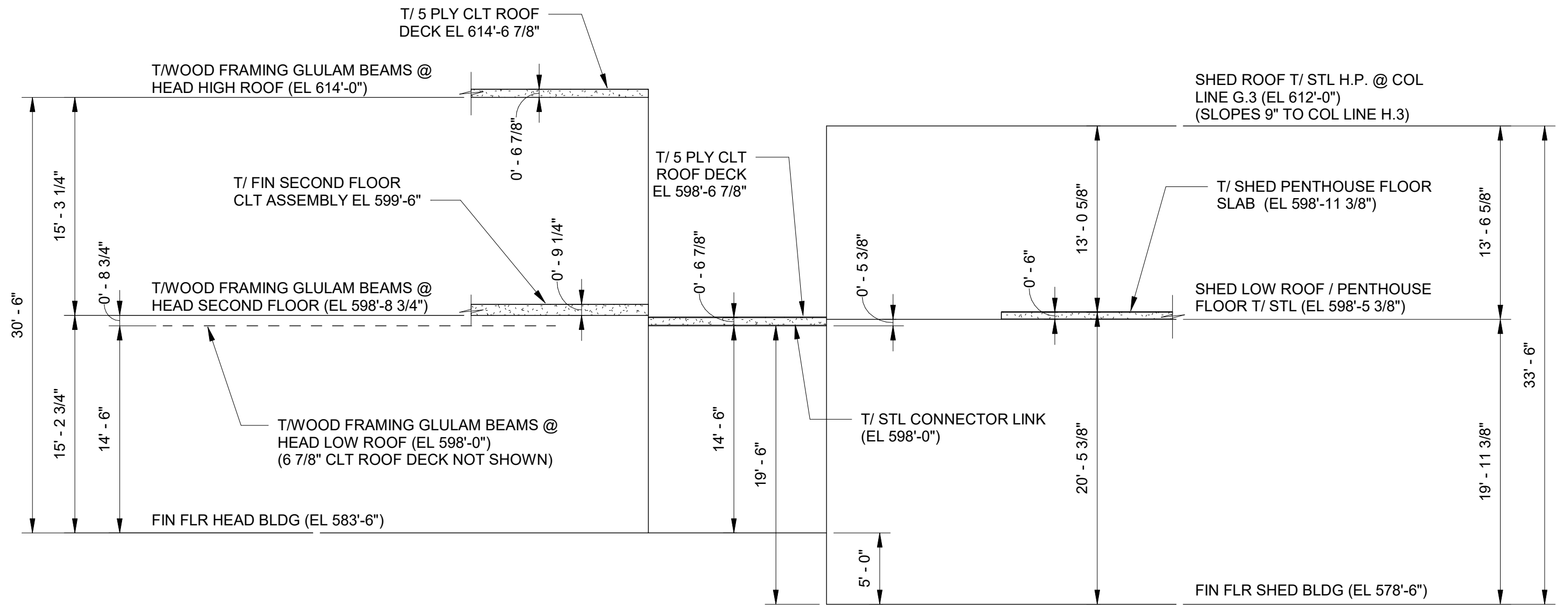

2
3
4
5
6
7
7.1
8
9
10
11
12
13
14
15
16
17
18
SW
9
HEAD BUILDING
SHED BLDG
A
1
A.7
B
B.5
H.2
C
C.5
C.4
D
E
F
G
G.3
H
H.3
H.4
J

1 S-200 LOW ROOF / SECOND FLOOR / PENTHOUSE FRAMING PLAN - OVERALL
1/16" = 1'-0"

NOTES:
SEE DWGS S-201 AND S-202 FOR PLAN NOTES FOR HEAD AND SHED BUILDINGS, RESPECTIVELY.


3
4
5
24' - 0"
10' - 8 1/2"
3' - 7 3/4"
12' - 0"
12' - 0"
16"x12 3/8" GLULAM COLUMN@ THIS COLUMN ONLY
ARC #1 W.P. 2
ARC #2 W.P. 1
T/STL +4'-9"
12"x12 3/8" GLULAM COLUMNS, TYP U.O.N.
BRACE XB-1
A
10.5x28.875
10.5x28.875
10.5x28.875
14' - 5 11/16" +/- ARC #2
ARC #2 W.P. 2
T/STL +0'-9"
ARC #3 W.P. 2
ARC #4 W.P. 1
T/STL +4'-9"
HSS14x6x5/8 STAIR STRINGERS
10.5"x12 3/8" GLULAM FILLER BEAM, TYP BETWEEN COL LINES "A" AND "B" ALONG CO LINE "4"
6' - 10 3/4" T/ STL +4'-9"
5' - 7 13/16"
T/ STL +4'-9"
5' - 3 1/16"
22' - 7 11/16" +/- ARC #1
D
S-606
SW-EW1U
12x38.5
-1'-0 3/8"
10.5x28.875
HSS4x4x3/8 AT EA STRINGER (OTHERS NOT SHOWN)
11' - 8 1/16" +/- ARC #4
15' - 8 5/16" +/- ARC #3
ARC #4 W.P. 2
T/STL +0'-9"
8' - 5 7/8"
3' - 0"
10' - 10 3/4"
6' - 6 3/16"
B
S-606
HSS12X8X5/8
10.5x28.875
32' - 0"
29' - 0 13/16"
23' - 0 9/16"
34' - 6 1/2" ARC #2
24' - 6 3/4" ARC #4
12' - 7 3/4" ARC #3
21' - 10 1/4" ARC #1
12.54°
1' - 6 3/8"
ARC #3 MAIN W.P.
ARC #1 W.P. 1
T/STL +16'-2"
6' - 1 3/16"
3' - 8 13/16"
HSS12X8X5/8
4' - 8 3/8"
7' - 4"
ARC #3 W.P. 1
T/STL +16'-2"
24' - 4 9/16"
11' - 9 13/16"
14' - 6"
15' - 11 5/16"
2' - 6"
HSS12X8X5/8
5' - 0"
ARC #1 MAIN W.P.
C
S-606
A
S-606
8' - 1 1/16"
HSS14X6X5/8
2"
7' - 6"
2' - 4"
HSS12x8x5/8, TYP 3
5' - 0"
HSS12X8X5/8
CONT 8x6x3/8 BENT PLATE AT EDGE OF CLT FOR RAILING ATTACHMENT, COORD W/ ARCH DWGS
B
12x33
12x33
12x33
4' - 4 7/8"
MAIN WORKPOINT FOR LAYOUT OF STAIR IS AT INTERSECTION OF COLUMN LINES "B" AND "3" (ARC # 4 MAIN W.P.)
EXTEND CLT FLOOR PANEL SYSTEM OVER TO TOP OF STAIR (SHADED AREA BETWEEN RAILING ASSEMBLIES, COORD W/ ARCH DWGS)
1' - 0"
ARC #2 MAIN W.P.
2' - 2 5/16"

2 S-200 LOW ROOF / SECOND FLOOR FRAMING PLAN - HEAD BLDG
1/4" = 1'-0"


T/ 5 PLY CLT ROOF DECK EL 614'-6 7/8"
T/WOOD FRAMING GLULAM BEAMS @ HEAD HIGH ROOF (EL 614'-0")
0' - 6 7/8"
T/ FIN SECOND FLOOR CLT ASSEMBLY EL 599'-6"
T/ 5 PLY CLT ROOF DECK EL 598'-6 7/8"
SHED ROOF T/ STL H.P. @ COL LINE G.3 (EL 612'-0") (SLOPES 9" TO COL LINE H.3)
T/ SHED PENTHOUSE FLOOR SLAB (EL 598'-11 3/8")
15' - 3 1/4"
30' - 6"
0' - 8 3/4"
0' - 9 1/4"
0' - 6 7/8"
0' - 5 3/8"
0' - 6"
13' - 0 5/8"
13' - 6 5/8"
T/WOOD FRAMING GLULAM BEAMS @ HEAD SECOND FLOOR (EL 598'-8 3/4")
SHED LOW ROOF / PENTHOUSE FLOOR T/ STL (EL 598'-5 3/8")
33' - 6"
15' - 2 3/4"
14' - 6"
T/WOOD FRAMING GLULAM BEAMS @ HEAD LOW ROOF (EL 598'-0") (6 7/8" CLT ROOF DECK NOT SHOWN)
14' - 6"
19' - 6"
T/ STL CONNECTOR LINK (EL 598'-0")
20' - 5 3/8"
19' - 11 3/8"
FIN FLR HEAD BLDG (EL 583'-6")
5' - 0"
FIN FLR SHED BLDG (EL 578'-6")

BUILDING ELEVATION DIAGRAM

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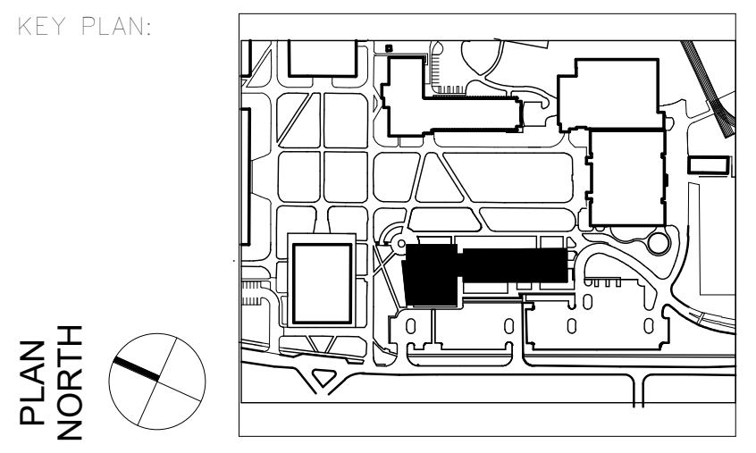
KEY PLAN:

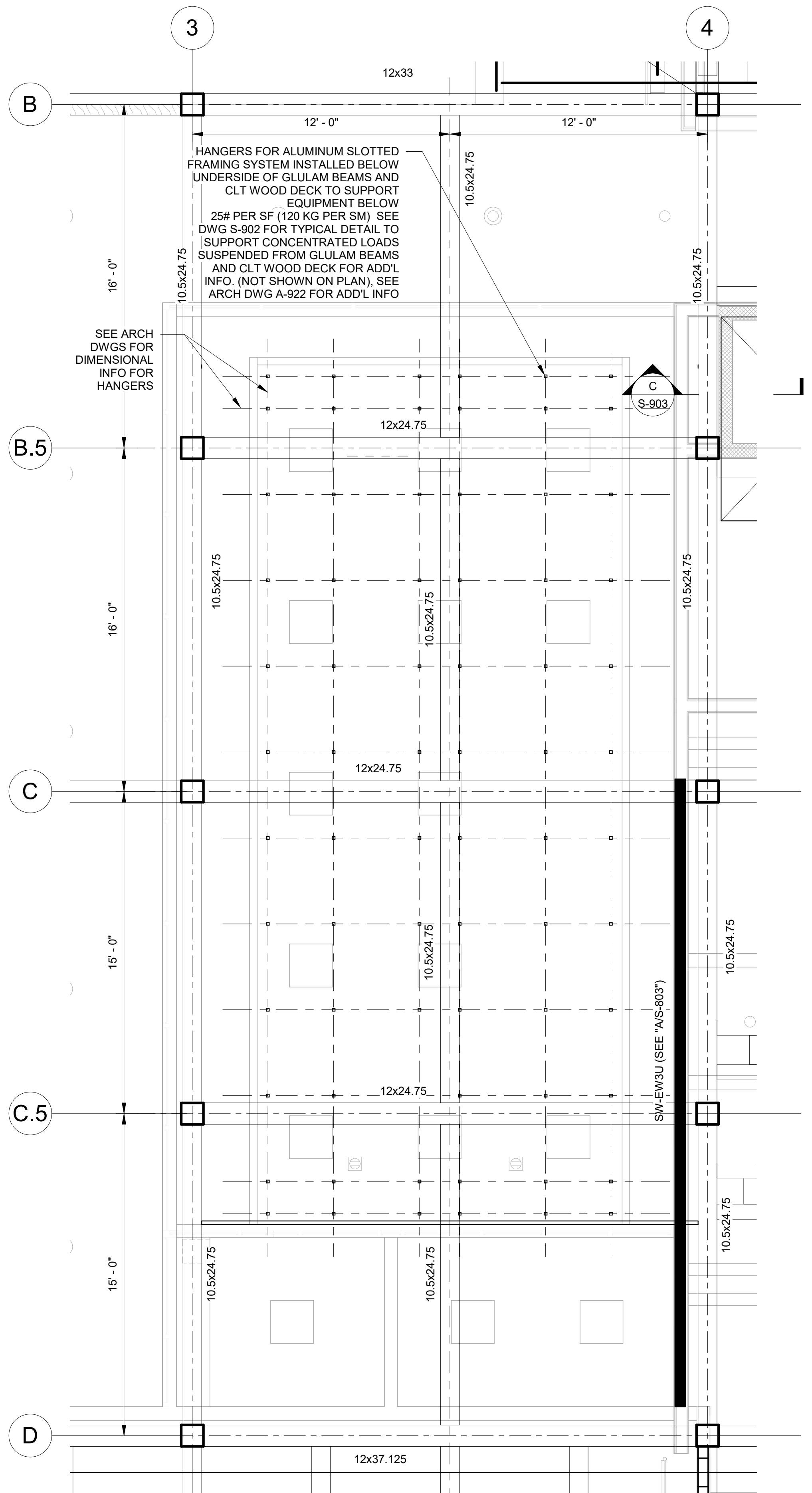


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

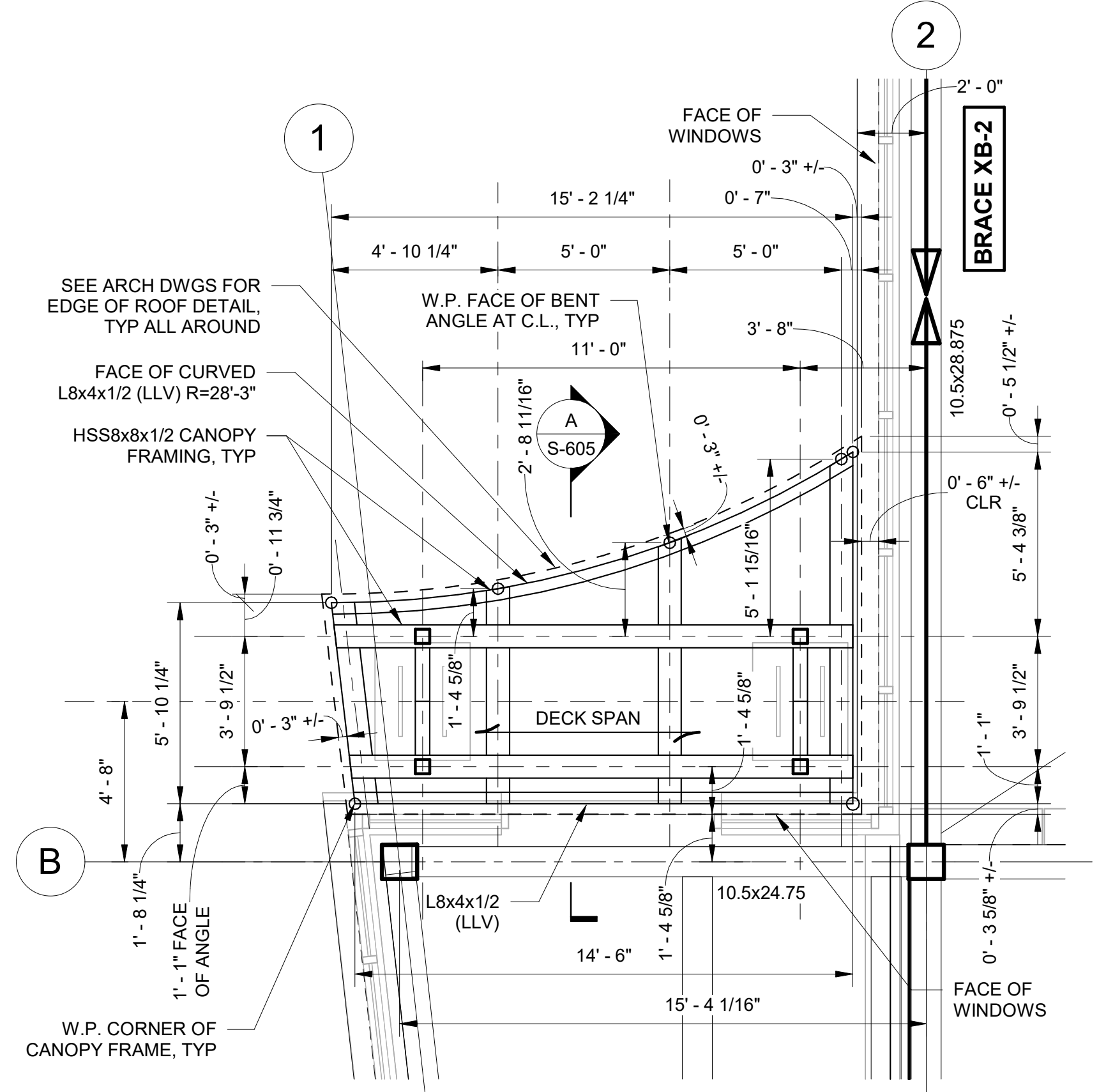
DRAWING TITLE:
LOW ROOF / SECOND FLOOR / PENTHOUSE FRAMING PLAN - OVERALL

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

S-200

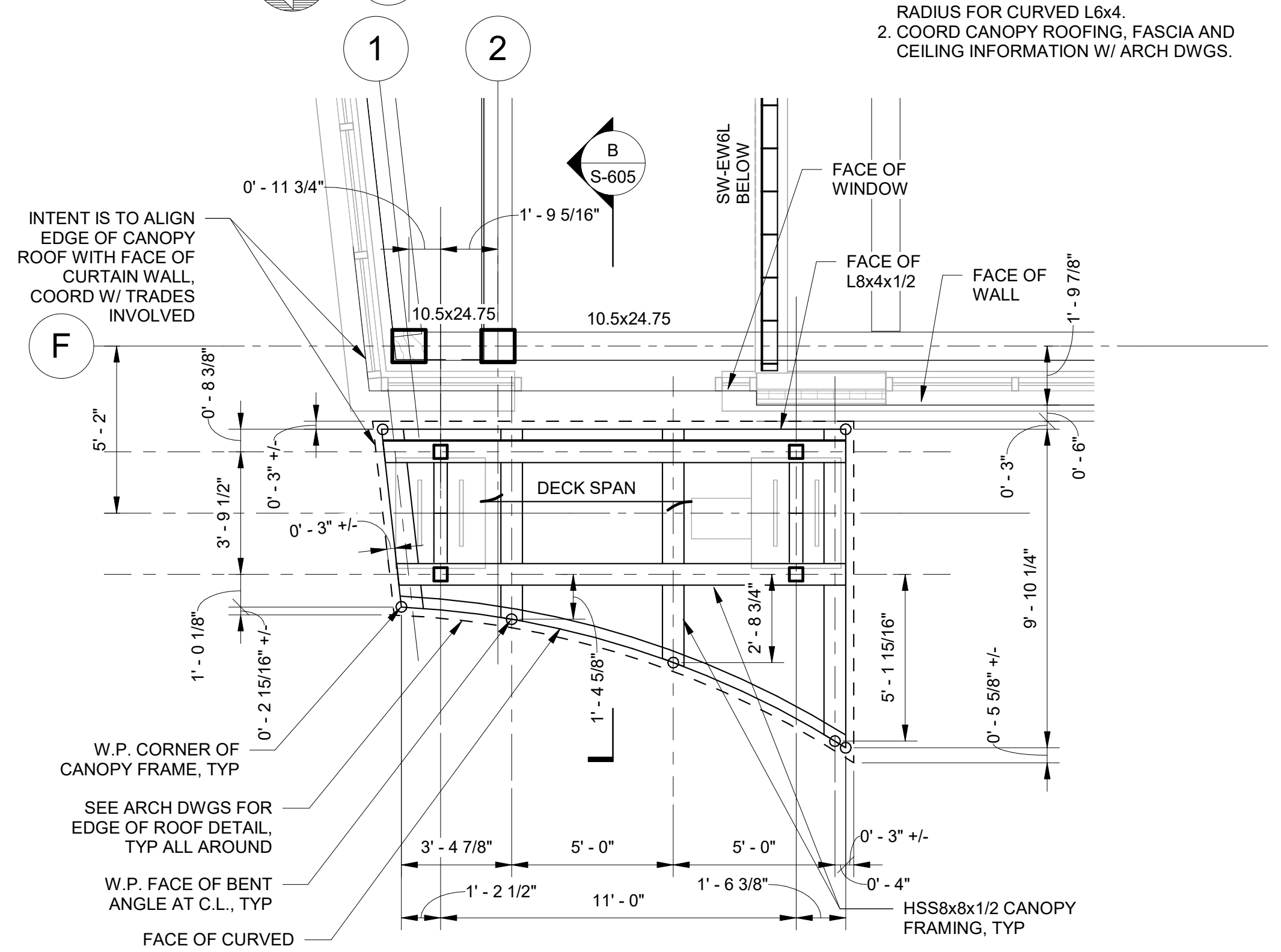

3
4
B
B.5
C
C.5
D
12x33
12' - 0"
HANGERS FOR ALUMINUM SLOTTED FRAMING SYSTEM INSTALLED BELOW UNDERSIDE OF GLULAM BEAMS AND CLT WOOD DECK TO SUPPORT EQUIPMENT BELOW 25# PER SF (120 KG PER SM) SEE DWG S-902 FOR TYPICAL DETAIL TO SUPPORT CONCENTRATED LOADS SUSPENDED FROM GLULAM BEAMS AND CLT WOOD DECK FOR ADD'L INFO. (NOT SHOWN ON PLAN), SEE ARCH DWG A-922 FOR ADD'L INFO
SEE ARCH DWGS FOR DIMENSIONAL INFO FOR HANGERS
16' - 0"
15' - 0"
10.5x24.75
12x24.75
12x37.125
C
S-903
SW-EW3U (SEE "4/S-803")

2 AUTOMATION TRAINING CENTER UNISTRUT FRAMING PLAN - HEAD BLDG
S-201 1/4" = 1'-0"


1
2
B
BRACE XB-2
FACE OF WINDOWS
15' - 2 1/4"
4' - 10 1/4"
5' - 0"
SEE ARCH DWGS FOR EDGE OF ROOF DETAIL, TYP ALL AROUND
W.P. FACE OF BENT ANGLE AT C.L., TYP
FACE OF CURVED L8x4x1/2 (LLV) R=28'-3"
HSS8x8x1/2 CANOPY FRAMING, TYP
A
S-605
DECK SPAN
L8x4x1/2 (LLV)
10.5x24.75
10.5x28.875
14' - 6"
15' - 4 1/16"
1' - 1" FACE OF ANGLE
W.P. CORNER OF CANOPY FRAME, TYP
FACE OF WINDOWS

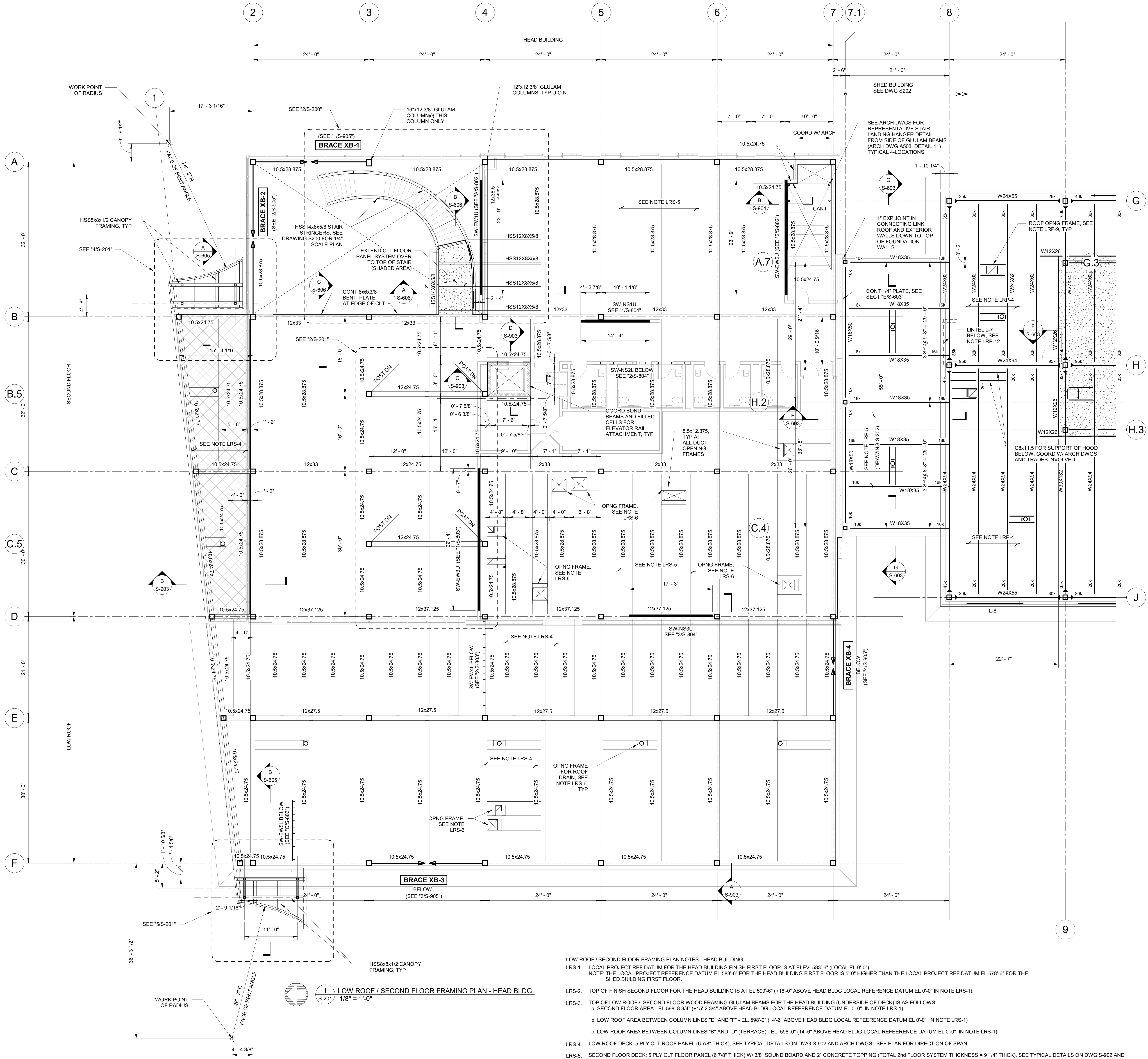
4 MAIN CANOPY ROOF FRAMING PLAN
S-201 1/4" = 1'-0"

NOTES:
1. SEE 1/8" SCALE PLAN FOR WORK POINT OF RADIUS FOR CURVED L6x4.
2. COORD CANOPY ROOFING, FASCIA AND CEILING INFORMATION W/ ARCH DWGS.


1
2
F
B
S-605
SW-EW6L BELOW
0' - 11 3/4"
1' - 9 5/16"
INTENT IS TO ALIGN EDGE OF CANOPY ROOF WITH FACE OF CURTAIN WALL, COORD W/ TRADES INVOLVED
FACE OF WINDOW
FACE OF L8x4x1/2
FACE OF WALL
10.5x24.75
DECK SPAN
W.P. CORNER OF CANOPY FRAME, TYP
SEE ARCH DWGS FOR EDGE OF ROOF DETAIL, TYP ALL AROUND
W.P. FACE OF BENT ANGLE AT C.L., TYP
FACE OF CURVED L8x4x1/2 (LLV) R=28'-3"
3' - 4 7/8"
5' - 0"
1' - 2 1/2"
11' - 0"
1' - 6 3/8"
0' - 3" +/-
0' - 4"
HSS8x8x1/2 CANOPY FRAMING, TYP

5 REAR CANOPY FRAMING PLAN
S-201 1/4" = 1'-0"

NOTES:
1. SEE 1/8" SCALE PLAN FOR WORK POINT OF RADIUS FOR CURVED L6x4.
2. COORD CANOPY ROOFING, FASCIA AND CEILING INFORMATION W/ ARCH DWGS.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G
G.3
H
H.2
H.3
J
HEAD BUILDING
24' - 0"
SHED BUILDING SEE DWG S202
WORK POINT OF RADIUS
SEE "2/S-200"
(SEE "1/S-905")
BRACE XB-1
BRACE XB-2
BRACE XB-3
BRACE XB-4
16"x12 3/8" GLULAM COLUMN@ THIS COLUMN ONLY
12"x12 3/8" GLULAM COLUMNS, TYP U.O.N.
HSS8x8x1/2 CANOPY FRAMING, TYP
SEE "4/S-201"
HSS14x6x5/8 STAIR STRINGERS, SEE DRAWING S200 FOR 1/4" SCALE PLAN
EXTEND CLT FLOOR PANEL SYSTEM OVER TO TOP OF STAIR (SHADED AREA)
CONT 8x6x3/8 BENT PLATE AT EDGE OF CLT
SEE NOTE LRS-5
SEE NOTE LRS-4
SEE NOTE LRS-6
SEE ARCH DWGS FOR REPRESENTATIVE STAIR LANDING HANGER DETAIL FROM SIDE OF GLULAM BEAMS (ARCH DWG A503, DETAIL 11) TYPICAL 4-LOCATIONS
COORD W/ ARCH
CANT
1" EXP JOINT IN CONNECTING LINK ROOF AND EXTERIOR WALLS DOWN TO TOP OF FOUNDATION WALLS
CONT 1/4" PLATE, SEE SECT "E/S-603"
ROOF OPNG FRAME, SEE NOTE LRP-9, TYP
SEE NOTE LRP-4
LINTEL L-7 BELOW, SEE NOTE LRP-12
C8x11.5 FOR SUPPORT OF HOOD BELOW, COORD W/ ARCH DWGS AND TRADES INVOLVED
COORD BOND BEAMS AND FILLED CELLS FOR ELEVATOR RAIL ATTACHMENT, TYP
8.5x12.375, TYP AT ALL DUCT OPENING FRAMES
OPNG FRAME, SEE NOTE LRS-6
OPNG FRAME FOR ROOF DRAIN, SEE NOTE LRS-6, TYP
POST DN
SW-NS2L BELOW SEE "2/S-804"
SW-NS1U SEE "1/S-804"
SW-NS3U SEE "3/S-804"
SW-EW3U (SEE "4/S-803")
SW-EW4L BELOW (SEE "2/S-803")
SW-EW6L BELOW (SEE "2/S-803")
SECOND FLOOR
LOW ROOF
FACE OF BENT ANGLE
28' - 3" R
10.5x28.875
10.5x24.75
12x33
12x24.75
12x37.125
12x27.5
12x38.5
HSS12X8X5/8
W24X55
W18X35
W12X26
W24X62
W24X94
W27X94
W30X132
W18X50
L-8
SEE "5/S-201"
4' - 4 3/8"

1 LOW ROOF / SECOND FLOOR FRAMING PLAN - HEAD BLDG
S-201 1/8" = 1'-0"

LOW ROOF / SECOND FLOOR FRAMING PLAN NOTES - HEAD BUILDING:

LRS-1. LOCAL PROJECT REF DATUM FOR THE HEAD BUILDING FINISH FIRST FLOOR IS AT ELEV. 583'-6" (LOCAL EL 0'-0")
NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR IS 5'-0" HIGHER THAN THE LOCAL PROJECT REF DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR.

LRS-2. TOP OF FINISH SECOND FLOOR FOR THE HEAD BUILDING IS AT EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REFERENCE DATUM EL 0'-0" IN NOTE LRS-1).

LRS-3. TOP OF LOW ROOF / SECOND FLOOR WOOD FRAMING GLULAM BEAMS FOR THE HEAD BUILDING (UNDERSIDE OF DECK) IS AS FOLLOWS:
a. SECOND FLOOR AREA - EL 598'-8 3/4" (+15'-2 3/4" ABOVE HEAD BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE LRS-1)
b. LOW ROOF AREA BETWEEN COLUMN LINES "D" AND "F" - EL. 598'-0" (14'-6" ABOVE HEAD BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE LRS-1)
c. LOW ROOF AREA BETWEEN COLUMN LINES "B" AND "D" (TERRACE) - EL. 598'-0" (14'-6" ABOVE HEAD BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE LRS-1)

LRS-4. LOW ROOF DECK: 5 PLY CLT ROOF PANEL (6 7/8" THICK), SEE TYPICAL DETAILS ON DWG S-902 AND ARCH DWGS. SEE PLAN FOR DIRECTION OF SPAN.

LRS-5. SECOND FLOOR DECK: 5 PLY CLT FLOOR PANEL (6 7/8" THICK) W/ 3/8" SOUND BOARD AND 2" CONCRETE TOPPING (TOTAL 2nd FLOOR SYSTEM THICKNESS = 9 1/4" THICK), SEE TYPICAL DETAILS ON DWG S-902 AND SEE PLAN FOR DIRECTION OF SPAN. SEE ARCH DWGS FOR FLOOR FINISH ABOVE CONCRETE TOPPING.

LRS-6. PROVIDE ROOF AND FLOOR OPENING FRAMES FOR ALL OPENINGS GREATER THAN OR EQUAL TO 12" IN ANY DIRECTION. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR OPENINGS REQUIRED AND COORDINATE OPENING SIZES AND LOCATIONS WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

LRS-7. PROVIDE SUPPORT FRAMING FOR MECHANICAL EQUIPMENT. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRED AND COORDINATE ALL DIMENSIONAL REQUIREMENTS FOR SUPPORT FRAMING (INCLUDING SIZES AND LOCATIONS) WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

LRS-8. SEE DWG S-902 FOR ADDITIONAL TYPICAL FRAMING DETAILS AND DRAWING S-904 FOR DESIGN PARAMETERS AND GENERAL NOTES. SEE DRAWING S601 FOR STEEL NOTES.

LRS-9. REFER TO TABLES THIS SHEET FOR GLULAM BEAM MAXIMUM CONNECTION REACTIONS (UN-FACTORED GRAVITY LOADS)

LRS-10. HORIZONTAL PENETRATIONS THROUGH GLULAM BEAMS MAY BE REQUIRED FOR LATERAL DISTRIBUTION OF MECHANICAL AND ELECTRICAL SYSTEMS AND ARE NOT SHOWN ON THIS DRAWING. REFER TO ARCH DWG A-870 AND STRUCTURAL DWG S-902 FOR SPECIFIC INFORMATION REGARDING THESE PENETRATIONS. THE CONTRACTOR RESPONSIBLE FOR THE GLULAM BEAM SYSTEMS SHALL COORD ALL REQ'D PENETRATIONS (SIZE AND LOCATIONS) W/ TRADES INVOLVED.

GLULAM BEAM CONNECTION REACTIONS (UN-FACTORED)
(MEMBERS IN NORTH / SOUTH DIRECTION)

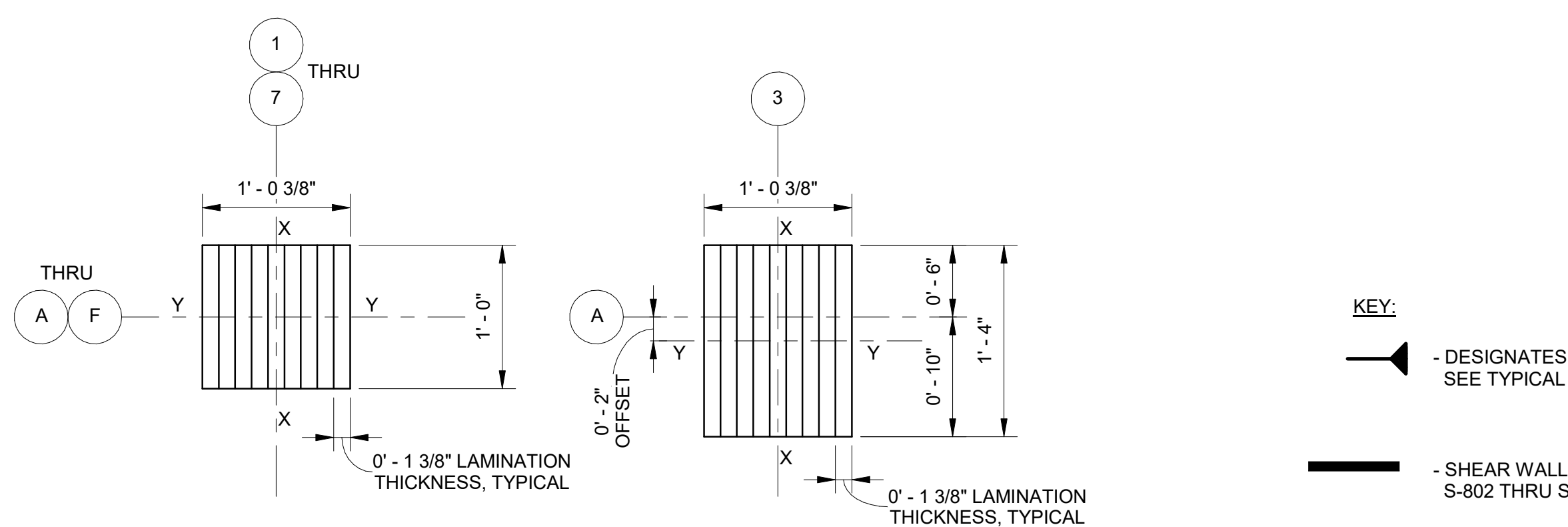
MEMBER DESCRIPTION	MAX END REACTION (UN-FACTORED GRAVITY LOADS) - KIPS
COL LINE A - 10.5x28.875	25 KIPS
COL LINE B - 12x33	40 KIPS
COL LINE B.5 - 12x24.75	25 KIPS
COL LINE C - 12x33	55 KIPS
COL LINE C - 12x24.75	25 KIPS
COL LINE C.5 - 12x24.75	25 KIPS
COL LINE D - 12x37.125	50 KIPS
COL LINE E - 12x27.5	30 KIPS
COL LINE F - 10.5x24.75	20 KIPS

NOTE: FOR MEMBERS NOT LISTED, THE MAXIMUM UN-FACTORED FDN REACTIONS ARE LESS THAN OR EQUAL TO 10 KIPS.

GLULAM BEAM CONNECTION REACTIONS (UN-FACTORED)
(MEMBERS IN EAST / WEST DIRECTION)

MEMBER DESCRIPTION	MAX END REACTION (UN-FACTORED GRAVITY LOADS) - KIPS
COL LINE 1 - 10.5x24.75	20 KIPS
COL LINE 2 - 10.5x28.875	30 KIPS
COL LINE 2 - 10.5x24.75	20 KIPS
COL LINE 3 - 10.5x24.75	30 KIPS
COL LINE 4 - 12x38.5	62 KIPS
COL LINE 4 - 10.5x24.75	30 KIPS
COL LINE 5 & 6 - 10.5x28.875	40 KIPS
COL LINE 5 & 6 - 10.5x24.75	30 KIPS
COL LINE 7 - 10.5x28.875	30 KIPS
COL LINE 7 - 10.5x24.75	20 KIPS
FILLER BEAMS (BETWEEN COL LINES) - 10.5x28.875	40 KIPS
FILLER BEAMS (BETWEEN COL LINES) - 10.5x24.75	30 KIPS

NOTE: FOR MEMBERS NOT LISTED, THE MAXIMUM UN-FACTORED FDN REACTIONS ARE LESS THAN OR EQUAL TO 10 KIPS.


1
THRU
7
3
THRU
A
F
1' - 0 3/8"
X
Y
1' - 0"
0' - 1 3/8" LAMINATION THICKNESS, TYPICAL
0' - 2" OFFSET
0' - 6"
0' - 10"
1' - 4"

3 WOOD COLUMN ORIENTATION PLAN - HEAD BLDG
S-201 1" = 1'-0"

NOTES:
1. ALL COLUMNS SHALL BE ORIENTED IN THE SAME DIRECTION AS SHOWN.
2. SEE DRAWING S-901 FOR WOOD COLUMN - STANDOFF SUPPORT POST ASSEMBLY DETAILS AT BASES OF ALL COLUMNS.

KEY:
- DESIGNATES MOMENT FRAME CONNECTION AT THE SHED BLDG SEE TYPICAL DETAILS ON DWG S-602
- SHEAR WALLS ABOVE TO HIGH ROOF, SEE DWGS S-802 THRU S-804 FOR ADD'L INFO
- SHEAR WALLS BELOW TO FIRST FLOOR, SEE DWGS S-802 THRU S-804 FOR ADD'L INFO
- BRACE - DIAGONAL STEEL ROD X-BRACING, SEE DWG S-905 FOR ADD'L INFO

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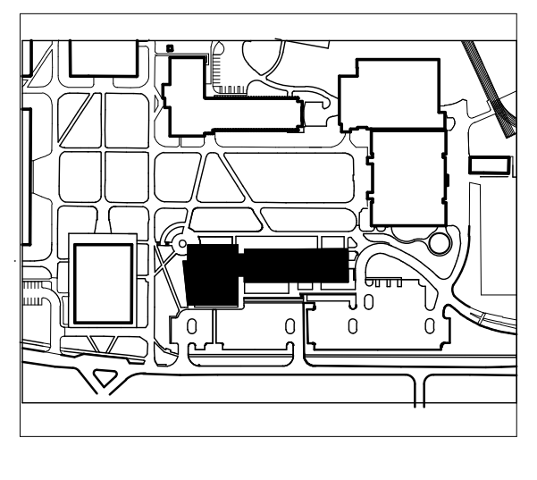
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

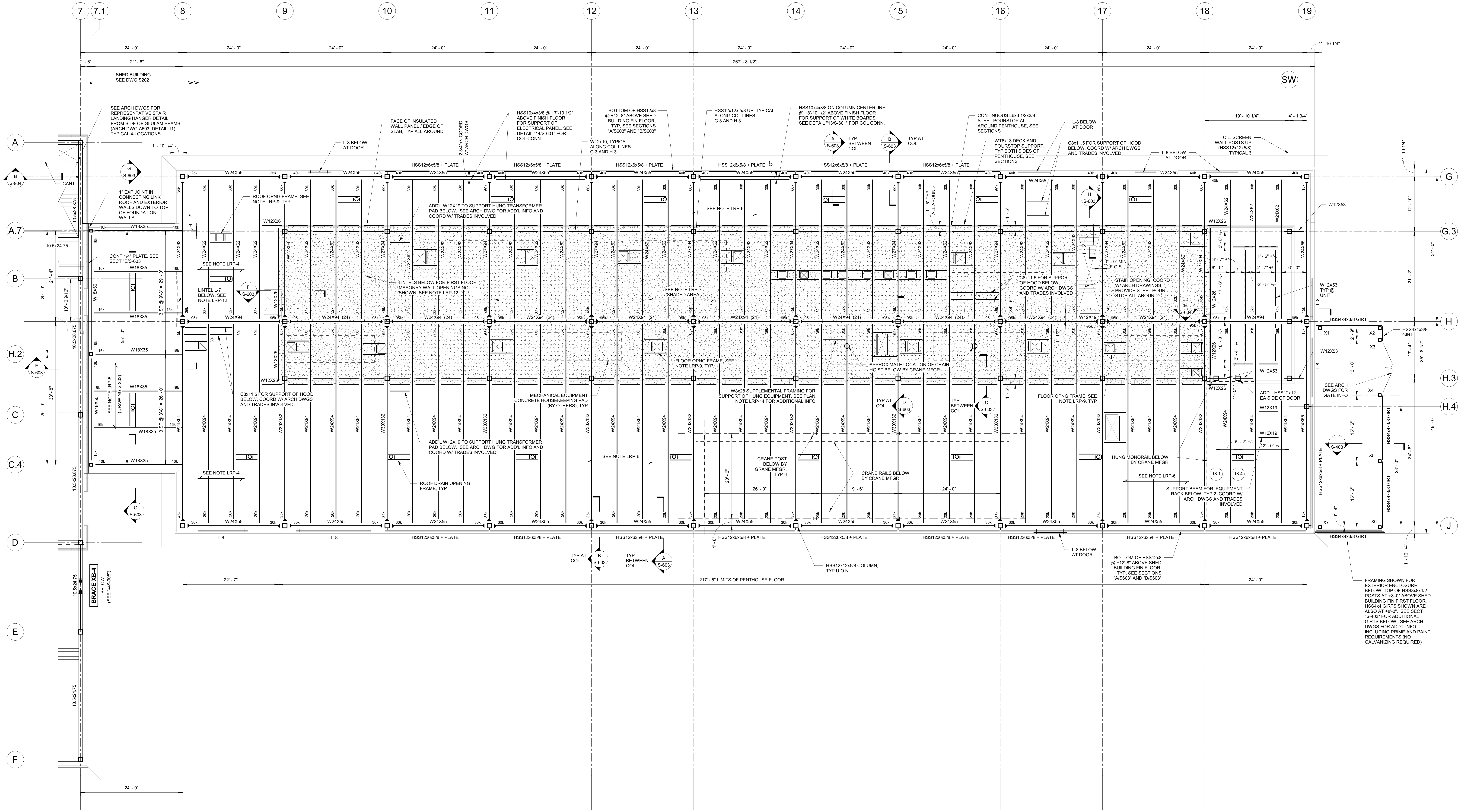
KEY PLAN:


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
HEAD BUILDING - LOW ROOF / SECOND FLOOR FRAMING PLAN

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

S-201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17
18
19
24' - 0"
2' - 6"
21' - 6"
267' - 8 1/2"
1' - 10 1/4"
SHED BUILDING
SEE DWG S202
SEE ARCH DWGS FOR REPRESENTATIVE STAIR LANDING HANGER DETAIL FROM SIDE OF GLULAM BEAMS (ARCH DWG A503, DETAIL 11) TYPICAL 4-LOCATIONS
1" EXP JOINT IN CONNECTING LINK ROOF AND EXTERIOR WALLS DOWN TO TOP OF FOUNDATION WALLS
CONT 1/4" PLATE, SEE SECT "E/S-603"
CANT
L-8 BELOW AT DOOR
FACE OF INSULATED WALL PANEL / EDGE OF SLAB, TYP ALL AROUND
2 3/4"+/- COORD W/ ARCH DWGS
HSS10x4x3/8 @ +7'-10 1/2" ABOVE FINISH FLOOR FOR SUPPORT OF ELECTRICAL PANEL, SEE DETAIL "14/S-601" FOR COL CONN.
BOTTOM OF HSS12x8 @ +12'-8" ABOVE SHED BUILDING FIN FLOOR, TYP, SEE SECTIONS "A/S603" AND "B/S603"
W12x19, TYPICAL ALONG COL LINES G.3 AND H.3
HSS12x12x 5/8 UP, TYPICAL ALONG COL LINES G.3 AND H.3
HSS10x4x3/8 ON COLUMN CENTERLINE @ +8'-10 1/2" ABOVE FINISH FLOOR FOR SUPPORT OF WHITE BOARDS, SEE DETAIL "13/S-601" FOR COL CONN.
TYP BETWEEN COL
TYP AT COL
CONTINUOUS L6x3 1/2x3/8 STEEL POURSTOP ALL AROUND PENTHOUSE, SEE SECTIONS
WT6x13 DECK AND POURSTOP SUPPORT, TYP BOTH SIDES OF PENTHOUSE, SEE SECTIONS
C8x11.5 FOR SUPPORT OF HOOD BELOW, COORD W/ ARCH DWGS AND TRADES INVOLVED
C.L. SCREEN WALL POSTS UP (HSS12x12x5/8) TYPICAL 3
SW
19' - 10 1/4"
4' - 1 3/4"
HSS12x6x5/8 + PLATE
W24X55
W24X62
W27X94
W24X94
W30X132
W18X35
W18X50
W12X26
W12X19
W12X53
ROOF OPNG FRAME, SEE NOTE LRP-9, TYP
ADD'L W12X19 TO SUPPORT HUNG TRANSFORMER PAD BELOW. SEE ARCH DWG FOR ADD'L INFO AND COORD W/ TRADES INVOLVED
SEE NOTE LRP-4
SEE NOTE LRP-6
SEE NOTE LRP-7 SHADED AREA
LINTELS BELOW FOR FIRST FLOOR MASONRY WALL OPENINGS NOT SHOWN, SEE NOTE LRP-12
LINTEL L-7 BELOW, SEE NOTE LRP-12
STAIR OPENING, COORD W/ ARCH DRAWINGS, PROVIDE STEEL POUR STOP ALL AROUND
0' - 9" MIN E.O.S.
1' - 5" TYP ALL AROUND
W12X53 TYP @ UNIT
HSS4x4x3/8 GIRT
FLOOR OPNG FRAME, SEE NOTE LRP-9, TYP
APPROXIMATE LOCATION OF CHAIN HOIST BELOW BY CRANE MFGR
W8x28 SUPPLEMENTAL FRAMING FOR SUPPORT OF HUNG EQUIPMENT, SEE PLAN NOTE LRP-14 FOR ADDITIONAL INFO
C8x11.5 FOR SUPPORT OF HOOD BELOW, COORD W/ ARCH DWGS AND TRADES INVOLVED
MECHANICAL EQUIPMENT CONCRETE HOUSEKEEPING PAD (BY OTHERS), TYP
ADD'L HSS12x12 EA SIDE OF DOOR
SEE ARCH DWGS FOR GATE INFO
CRANE POST BELOW BY GRANE MFGR, TYP 8
CRANE RAILS BELOW BY CRANE MFGR
HUNG MONORAIL BELOW BY CRANE MFGR
SEE NOTE LRP-6
ROOF DRAIN OPENING FRAME, TYP
SUPPORT BEAM FOR EQUIPMENT RACK BELOW, TYP 2, COORD W/ ARCH DWGS AND TRADES INVOLVED
HSS12x6x5/8 + PLATE
HSS12x6x5/8 + PLATE
HSS4x4x3/8 GIRT
X1
X2
X3
X4
X5
X6
X7
L-8
TYP AT COL
TYP BETWEEN COL
L-8 BELOW AT DOOR
BOTTOM OF HSS12x8 @ +12'-8" ABOVE SHED BUILDING FIN FLOOR, TYP, SEE SECTIONS "A/S603" AND "B/S603"
HSS12x12x5/8 COLUMN, TYP U.O.N.
22' - 7"
217' - 5" LIMITS OF PENTHOUSE FLOOR
FRAMING SHOWN FOR EXTERIOR ENCLOSURE BELOW, TOP OF HSS8x8x1/2 POSTS AT +8'-0" ABOVE SHED BUILDING FIN FIRST FLOOR. HSS4x4 GIRTS SHOWN ARE ALSO AT +8'-0". SEE SECT "S-403" FOR ADDITIONAL GIRTS BELOW, SEE ARCH DWGS FOR ADD'L INFO INCLUDING PRIME AND PAINT REQUIREMENTS (NO GALVANIZING REQUIRED)
BRACE XB-4 BELOW (SEE "4/S-605")
A
A.7
B
H.2
C
C.4
D
E
F
G
G.3
H
H.3
H.4
J
10.5x28.875
10.5x24.75
S-603
S-904

LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN - SHED BLDG

1/S-202

1/8" = 1'-0"

LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN NOTES - SHED BLDG:

LRP-1. LOCAL PROJECT REF DATUM FOR THE SHED BUILDING FINISH FIRST FLOOR IS AT ELEV. 578'-6" (LOCAL EL 0'-0")
NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR IS 5'-0" LOWER THAN THE LOCAL PROJECT REF DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR.

LRP-2. TOP OF PENTHOUSE FLOOR CONCRETE SLAB FOR THE SHED BUILDING IS AT EL 598'-11 3/8" (+20'-5 3/8" ABOVE SHED BLDG LOCAL REFERENCE DATUM EL 0'-0" IN NOTE LRP-1).

LRP-3. TOP OF LOW ROOF / PENTHOUSE FLOOR STEEL (UNDERSIDE OF DECK) FOR THE SHED BUILDING IS AT EL 598'-5 3/8" (+19'-11 3/8" ABOVE SHED BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE LRP-1)

LRP-4. TOP OF LOW ROOF STEEL FOR THE SHED / HEAD CONNECTOR (UNDERSIDE OF DECK BETWEEN COL LINES 7.1 AND 8) IS AT EL 598'-0" (+ 19'-6" ABOVE SHED BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE LRP-1)

LRP-5. CONNECTOR LOW ROOF DECK: 5 PLY CLT ROOF PANEL (6 7/8" THICK), SEE TYPICAL DETAILS ON DWG S902 AND ARCH DWGS. SEE PLAN FOR DIRECTION OF SPAN.

LRP-6. SHED LOW ROOF DECK: 1 ½", 20 GA GALVANIZED AND SHOP PRIMED WIDE RIB TYPE B METAL ROOF DECK. ALL GALVANIZING AND SHOP PRIMING REQUIREMENTS SHALL BE COMPATIBLE WITH FINISH PAINT SYSTEM. G.C. SHALL COORDINATE ALL FINISH PAINTING REQUIREMENTS WITH ARCHITECTURAL ROOM FINISH SCHEDULE. SEE PLAN FOR DIRECTION OF SPAN AND TYPICAL ATTACHMENT DETAILS ON DRAWING S601. CONTRACTOR SHALL COORDINATED LOCATION OF EDGE OF DECK (E.O.D.) SUPPORT STEEL W/ ARCHITECTURAL DETAILS.

LRP-7. PENTHOUSE FLOOR DECK: 1 ½", 20 GA GALVANIZED AND SHOP PRIMED WIDE RIB TYPE B COMPOSITE METAL FLOOR DECK. ALL GALVANIZING AND SHOP PRIMING REQUIREMENTS SHALL BE COMPATIBLE WITH FINISH PAINT SYSTEM. G.C. SHALL COORDINATE ALL FINISH PAINTING REQUIREMENTS WITH ARCHITECTURAL ROOM FINISH SCHEDULE. SEE PLAN FOR DIRECTION OF SPAN AND TYPICAL ATTACHMENT DETAILS ON DRAWING S601. CONTRACTOR SHALL COORDINATED LOCATION OF EDGE OF DECK (E.O.D.) SUPPORT STEEL W/ ARCHITECTURAL DETAILS

LRP-8. PENTHOUSE FLOOR CONCRETE SLAB: 6" NORMAL WEIGHT CONCRETE (1 1/2" METAL DECK PLUS 4 1/2" CONCRETE ABOVE METAL DECK) REINFORCED W/ #4@12 E.W. PROVIDE PERIMETER REINFORCEMENT AND GIRDER REINF PER TYP DETAILS ON DWG S-601. SEE PLAN FOR ADD'L INFO.

LRP-9. PROVIDE ROOF AND FLOOR OPENING FRAMES PER TYPICAL DETAILS ON DWG S-601 FOR ALL OPENINGS GREATER THAN OR EQUAL TO 12" IN ANY DIRECTION. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR OPENINGS REQUIRED AND COORDINATE OPENING SIZES AND LOCATIONS WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

LRP-10. PROVIDE SUPPORT FRAMING FOR MECHANICAL EQUIPMENT PER TYPICAL DETAILS ON DWG S-601. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRED AND COORDINATE ALL DIMENSIONAL REQUIREMENTS FOR SUPPORT FRAMING (INCLUDING SIZES AND LOCATIONS) WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

LRP-11. SEE DWG S-601 FOR TYPICAL FRAMING DETAILS, DESIGN PARAMETERS AND GENERAL NOTES.

LRP-12. LINTELS FOR FIRST FLOOR MASONRY WALL OPENINGS TYPICALLY NOT SHOWN. COORD SIZE AND LOCATIONS W/ TRADES INVOLVED. SEE DRAWING S-501 FOR LINTEL SCHEDULE.

LRP-13. HUNG MONORAILS AND ASSOCIATED BRACING PROVIDED BY SPECIALTY CONTRACTOR NOT SHOWN. COORD ALL DETAILS FOR SUPPORT W/ TRADE INVOLVED. BEAMS SUPPORTING THE HUNG MONORAIL HAVE BEEN DESIGNED TO SUPPORT A CONCENTRATED LOAD OF 2500 POUNDS.

LRP-14. PROVIDE W8x28 SUPPLEMENTAL FRAMING FOR SUPPORT OF HUNG EXHAUST SNORKELS / CORD REELS AND HUNG CORD / AIR HOSE REELS AS SHOWN IN DETAILS "12A/S-601" AND 12B/S-601" RESPECTIVELY. REFER TO ARCH DRAWINGS FOR QUANTITIES AND LOCATIONS OF EACH HUNG SYSTEM. ALSO REFER TO ARCH DETAILS "11", "12", "15" AND "16" ON ARCH DWG A-910 FOR ADD'L INFO.

KEY:

—◀ - DESIGNATES MOMENT FRAME CONNECTION SEE TYPICAL DETAILS ON DWG S-602

_X_k - DESIGNATES MEMBER UN-FACTORED END REACTIONS (GRAVITY LOADS).

FOR MEMBERS NOT LABELED, UN-FACTORED END REACTION LESS THAN OR EQUAL TO 10 KIPS

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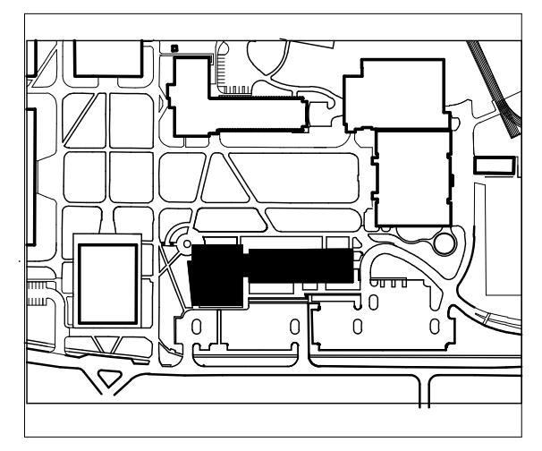
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

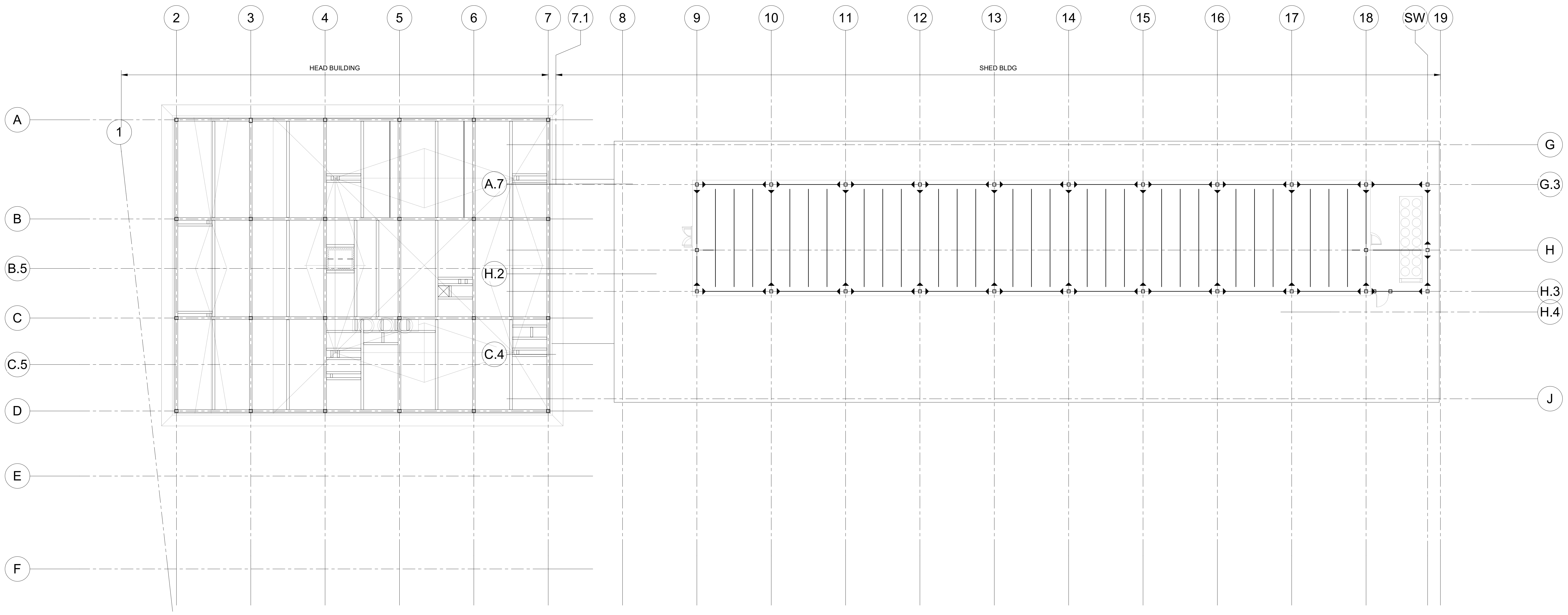
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SHED BUILDING – LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: 1/8" = 1'-0"

S-202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HEAD BUILDING
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D
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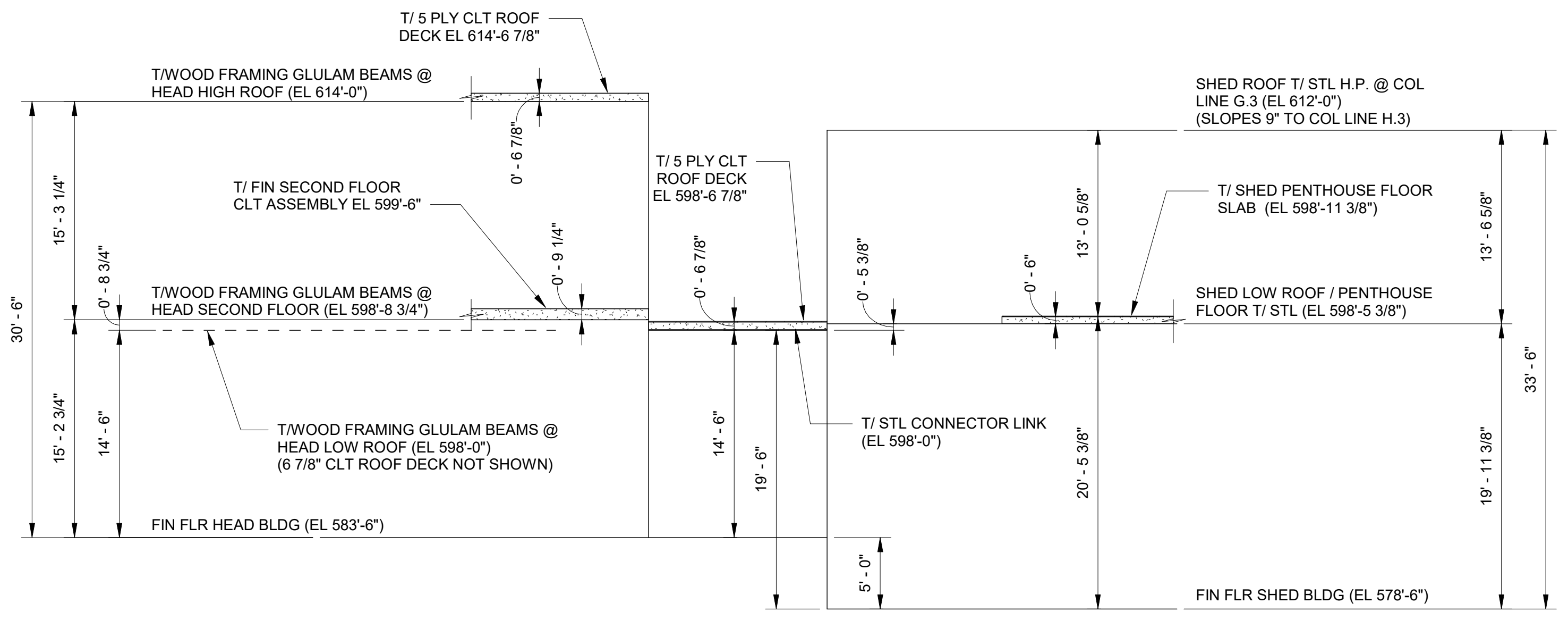
H.2
C.4
G
G.3
H
H.3
H.4
J

1 S-300 HIGH ROOF FRAMING PLAN - OVERALL
1/16" = 1'-0"

NOTES:
SEE DWGS S-301 AND S-302 FOR PLAN NOTES FOR HEAD AND SHED BUILDINGS, RESPECTIVELY.


T/ 5 PLY CLT ROOF DECK EL 614'-6 7/8"
T/WOOD FRAMING GLULAM BEAMS @ HEAD HIGH ROOF (EL 614'-0")
SHED ROOF T/ STL H.P. @ COL LINE G.3 (EL 612'-0") (SLOPES 9" TO COL LINE H.3)
0' - 6 7/8"
T/ 5 PLY CLT ROOF DECK EL 598'-6 7/8"
T/ FIN SECOND FLOOR CLT ASSEMBLY EL 599'-6"
T/ SHED PENTHOUSE FLOOR SLAB (EL 598'-11 3/8")
15' - 3 1/4"
13' - 0 5/8"
13' - 6 5/8"
0' - 9 1/4"
0' - 6 7/8"
0' - 5 3/8"
0' - 6"
0' - 8 3/4"
T/WOOD FRAMING GLULAM BEAMS @ HEAD SECOND FLOOR (EL 598'-8 3/4")
SHED LOW ROOF / PENTHOUSE FLOOR T/ STL (EL 598'-5 3/8")
30' - 6"
33' - 6"
T/WOOD FRAMING GLULAM BEAMS @ HEAD LOW ROOF (EL 598'-0") (6 7/8" CLT ROOF DECK NOT SHOWN)
T/ STL CONNECTOR LINK (EL 598'-0")
15' - 2 3/4"
14' - 6"
14' - 6"
19' - 6"
20' - 5 3/8"
19' - 11 3/8"
FIN FLR HEAD BLDG (EL 583'-6")
5' - 0"
FIN FLR SHED BLDG (EL 578'-6")

BUILDING ELEVATION DIAGRAM

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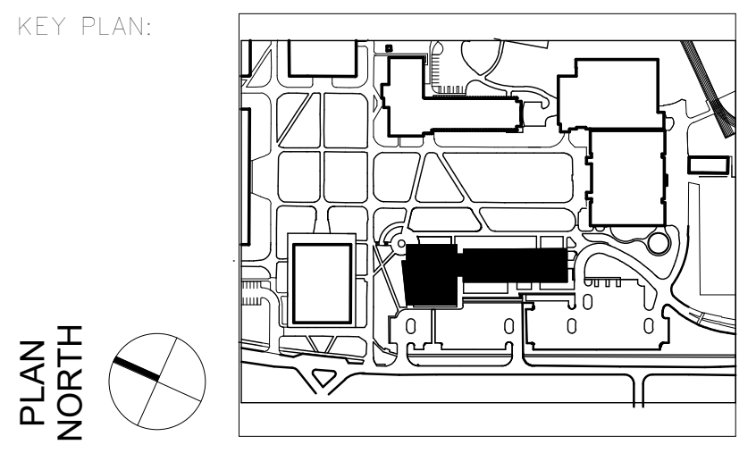
KEY PLAN:



PROJECT:

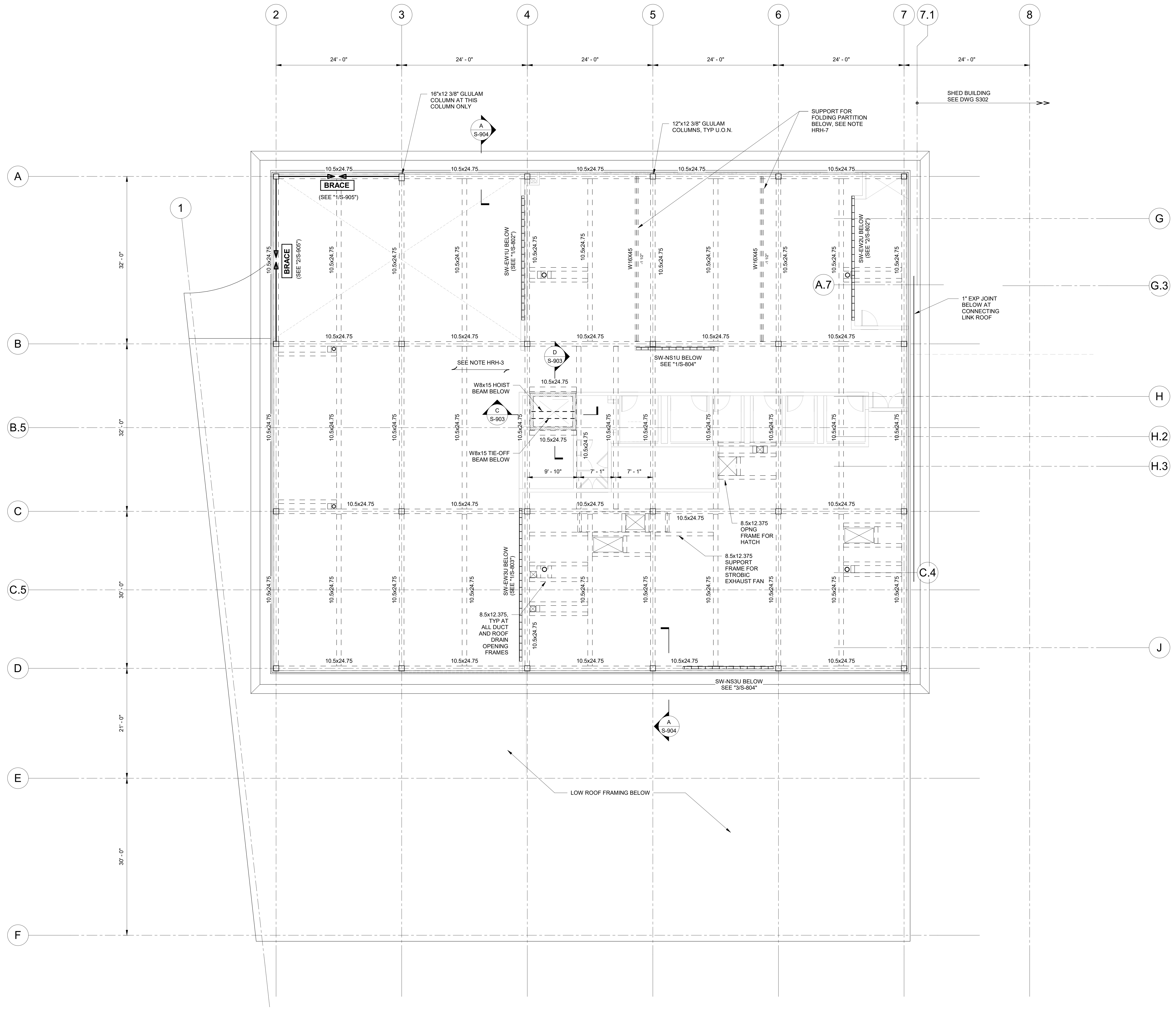
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HIGH ROOF FRAMING PLAN - OVERALL

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: As indicated

S-300


2
3
4
5
6
7
7.1
8
24' - 0"
24' - 0"
24' - 0"
24' - 0"
24' - 0"
24' - 0"
A
B
B.5
C
C.5
D
E
F
1
G
G.3
H
H.2
H.3
J
A.7
C.4
32' - 0"
32' - 0"
30' - 0"
21' - 0"
30' - 0"
16"x12 3/8" GLULAM COLUMN AT THIS COLUMN ONLY
12"x12 3/8" GLULAM COLUMNS, TYP U.O.N.
SUPPORT FOR FOLDING PARTITION BELOW, SEE NOTE HRH-7
SHED BUILDING SEE DWG S302
A S-904
BRACE (SEE "1/S-905")
BRACE (SEE "2/S-905")
10.5x24.75
W16X45
-1 1/2"
SW-EW1U BELOW (SEE "1/S-802")
SW-EW2U BELOW (SEE "2/S-802")
1" EXP JOINT BELOW AT CONNECTING LINK ROOF
SW-NS1U BELOW SEE "1/S-804"
SEE NOTE HRH-3
D S-903
W8x15 HOIST BEAM BELOW
C S-903
W8x15 TIE-OFF BEAM BELOW
9' - 10"
7' - 1"
7' - 1"
8.5x12.375 OPNG FRAME FOR HATCH
8.5x12.375 SUPPORT FRAME FOR STROBIC EXHAUST FAN
SW-EW3U BELOW (SEE "1/S-803")
8.5x12.375, TYP AT ALL DUCT AND ROOF DRAIN OPENING FRAMES
SW-NS3U BELOW SEE "3/S-804"
A S-904
LOW ROOF FRAMING BELOW

GLULAM BEAM CONNECTION REACTIONS (UN-FACTORED)	
MEMBER DESCRIPTION	MAX END REACTION (UN-FACTORED GRAVITY LOADS) - KIPS
COL LINE A - 10.5x24.75	15 KIPS
COL LINE B - 10.5x24.75	20 KIPS
COL LINE C - 10.5x24.75	20 KIPS
COL LINE D - 10.5x24.75	15 KIPS
COL LINE 2 - 10.5x24.75	15 KIPS
COL LINE 3 THRU 6 - 10.5x24.75	20 KIPS
COL LINE 7 - 10.5x24.75	15 KIPS
FILLER BEAMS BETWEEN COL LINES 2 THRU 7 - 10.5x27.75	20 KIPS

NOTE: FOR MEMBERS NOT LISTED, THE MAXIMUM UN-FACTORED FDN REACTIONS ARE LESS THAN OR EQUAL TO 10 KIPS.

1 / S-301 HIGH ROOF FRAMING PLAN - HEAD BLDG
1/8" = 1'-0"

HIGH ROOF FRAMING PLAN NOTES - HEAD BLDG:

HRH-1. LOCAL PROJECT REF DATUM FOR THE HEAD BUILDING FINISH FIRST FLOOR IS AT ELEV. 583'-6" (LOCAL EL 0'-0")
NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR IS 5'-0" HIGHER THAN THE LOCAL PROJECT REF DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR.

HRH-2. TOP OF HIGH ROOF WOOD FRAMING GLULAM BEAMS FOR THE HEAD BUILDING (UNDERSIDE OF DECK) IS EL 614'-0" (+30'-6" ABOVE HEAD BLDG LOCAL REFEERENCE DATUM EL 0'-0" IN NOTE HRH-1)

HRH-3. HIGH ROOF DECK: 5 PLY CLT ROOF PANEL (6 7/8" THICK), SEE TYPICAL DETAILS ON DWG S-902 AND ARCH DWGS. SEE PLAN FOR DIRECTION OF SPAN.

HRH-4. PROVIDE ROOF OPENING FRAMES FOR ALL OPENINGS GREATER THAN OR EQUAL TO 12" IN ANY DIRECTION. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR OPENINGS REQUIRED AND COORDINATE OPENING SIZES AND LOCATIONS WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

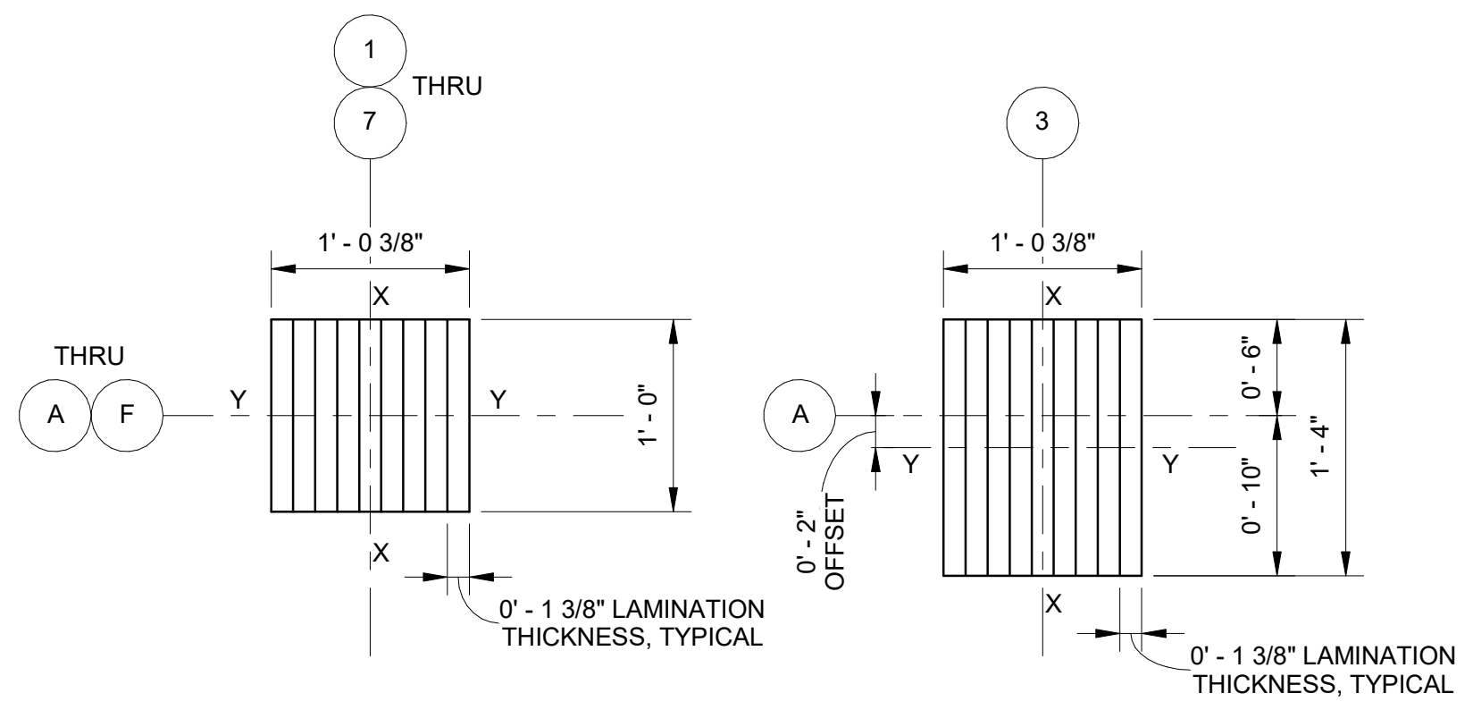
HRH-5. PROVIDE SUPPORT FRAMING FOR MECHANICAL EQUIPMENT. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRED AND COORDINATE ALL DIMENSIONAL REQUIREMENTS FOR SUPPORT FRAMING (INCLUDING SIZES AND LOCATIONS) WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

HRH-6. SEE DWG S-902 FOR ADDITIONAL TYPICAL FRAMING DETAILS AND DRAWING S-904 FOR DESIGN PARAMETERS AND GENERAL NOTES,

HRH-7. PROVIDE W16 SUPPORT BEAM FOR FOLDING PARTITION, COORD W/ FINAL SELECTED PARTITION AND PROVIDE HOLES FOR ATTACHMENT. BEAM SHALL BE INSTALLED 1 1/2" BELOW UNDERSIDE OF CLT ROOF PANELS. PROVIDE A 2x8 x 12" LONG SHIM AT CENTER SPAN OF BEAM ON TOP OF TOP BEAM FLANGE AND PROVIDE (4) 3/4" DIA THRU BOLTS AT BEAM GA, 6" APART THRU TOP BEAM FLANGE, SHIM AND CLT DECK.

HRH-8. REFER TO TABLE THIS SHEET FOR GLULAM BEAM MAXIMUM CONNECTION REACTIONS (UN-FACTORED GRAVITY LOADS)

HRH-9. HORIZONTAL PENETRATIONS THROUGH GLULAM BEAMS MAY BE REQUIRED FOR LATERAL DISTRIBUTION OF MECHANICAL AND ELECTRICAL SYSTEMS AND ARE NOT SHOWN ON THIS DRAWING. REFER TO ARCH DWG A-870 AND STRUCTURAL DWG S-902 FOR SPECIFIC INFORMATION REGARDING THESE PENETRATIONS. THE CONTRACTOR RESPONSIBLE FOR THE GLULAM BEAM SYSTEMS SHALL COORD ALL REQ'D PENETRATIONS (SIZE AND LOCATIONS) W/ TRADES INVOLVED.


1
THRU
7
THRU
A
F
1' - 0 3/8"
X
Y
1' - 0"
0' - 1 3/8" LAMINATION THICKNESS, TYPICAL
3
A
0' - 2" OFFSET
0' - 6"
0' - 10"
1' - 4"
0' - 1 3/8" LAMINATION THICKNESS, TYPICAL

2 / S-301 WOOD COLUMN ORIENTATION PLAN - HEAD BLDG
1" = 1'-0"

NOTES:
1. ALL COLUMNS SHALL BE ORIENTED IN THE SAME DIRECTION AS SHOWN.
2. SEE DRAWING S-901 FOR WOOD COLUMN - STANDOFF SUPPORT POST ASSEMBLY DETAILS AT BASES OF ALL COLUMNS.

KEY:

┼┼┼┼	- SHEAR WALLS BELOW TO SECOND FLOOR, SEE DWGS S-802 THRU S-804 FOR ADD'L INFO
→← BRACE	- DIAGONAL STEEL ROD X-BRACING, SEE DWG S-905 FOR ADD'L INFO

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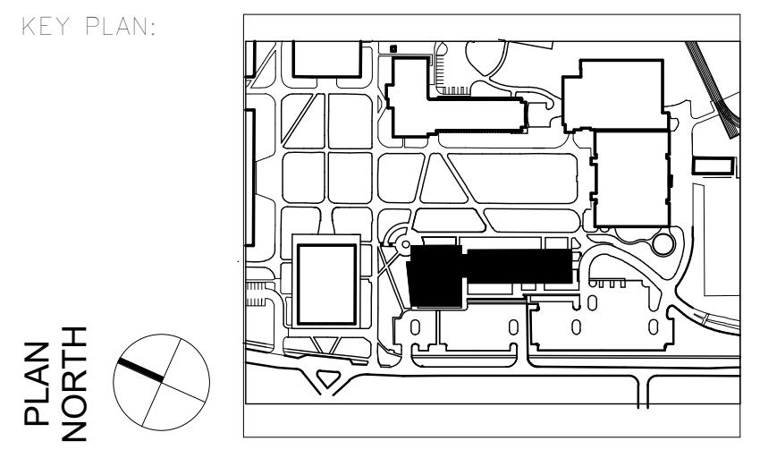


PROJECT:

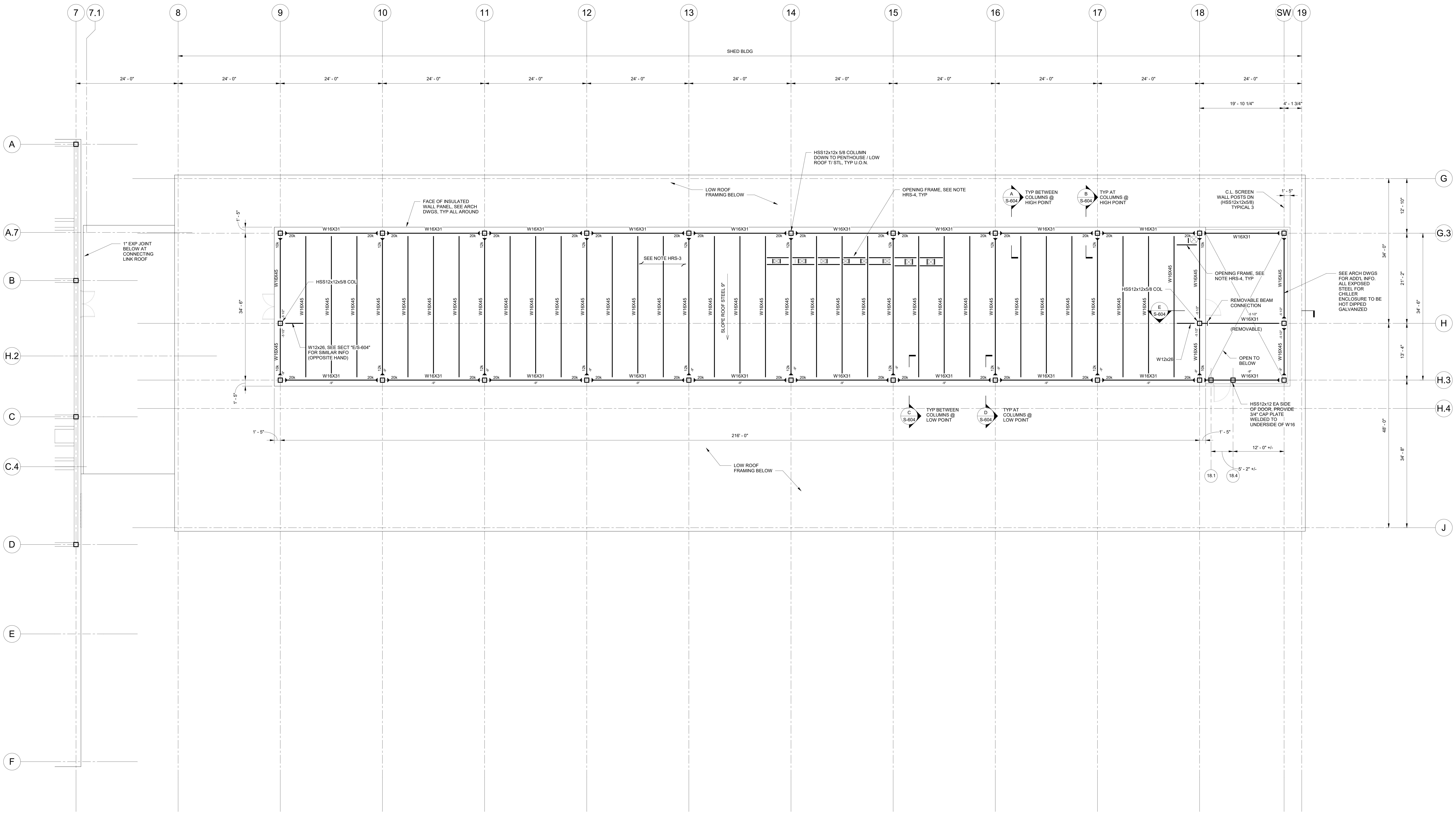
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – HIGH ROOF FRAMING PLAN

PROJECT NO: 23000	DATE: 9/23/25
PHASE: REBID & CONSTRUCTION	SCALE: As indicated

S-301


7
7.1
8
9
10
11
12
13
14
15
16
17
18
SW
19
SHED BLDG
24' - 0"
19' - 10 1/4"
4' - 1 3/4"
A
A.7
B
H.2
C
C.4
D
E
F
G
G.3
H
H.3
H.4
J
1" EXP JOINT BELOW AT CONNECTING LINK ROOF
FACE OF INSULATED WALL PANEL, SEE ARCH DWGS, TYP ALL AROUND
LOW ROOF FRAMING BELOW
HSS12x12x 5/8 COLUMN DOWN TO PENTHOUSE / LOW ROOF T/ STL, TYP U.O.N.
OPENING FRAME, SEE NOTE HRS-4, TYP
A S-604 TYP BETWEEN COLUMNS @ HIGH POINT
B S-604 TYP AT COLUMNS @ HIGH POINT
C.L. SCREEN WALL POSTS DN (HSS12x12x5/8) TYPICAL 3
1' - 5"
12' - 10"
34' - 0"
21' - 2"
34' - 6"
13' - 4"
48' - 0"
34' - 8"
W16X31
W16X45
20k
12k
10k
-9"
-5 1/2"
HSS12x12x5/8 COL
W12x26, SEE SECT "E/S-604" FOR SIMILAR INFO (OPPOSITE HAND)
SEE NOTE HRS-3
SLOPE ROOF STEEL 9"
E S-604
OPENING FRAME, SEE NOTE HRS-4, TYP
REMOVABLE BEAM CONNECTION
(REMOVABLE)
OPEN TO BELOW
W12x26
SEE ARCH DWGS FOR ADD'L INFO. ALL EXPOSED STEEL FOR CHILLER ENCLOSURE TO BE HOT DIPPED GALVANIZED
C S-604 TYP BETWEEN COLUMNS @ LOW POINT
D S-604 TYP AT COLUMNS @ LOW POINT
HSS12x12 EA SIDE OF DOOR, PROVIDE 3/4" CAP PLATE WELDED TO UNDERSIDE OF W16
216' - 0"
12' - 0" +/-
5' - 2" +/-
18.1
18.4

1 S-302 HIGH ROOF FRAMING PLAN - SHED BLDG
1/8" = 1'-0"

HIGH ROOF FRAMING PLAN NOTES - SHED BLDG:

HRS-1. LOCAL PROJECT REF DATUM FOR THE SHED BUILDING FINISH FIRST FLOOR IS AT ELEV. 578'-6" (LOCAL EL 0'-0") NOTE: THE LOCAL PROJECT REFERENCE DATUM EL 578'-6" FOR THE SHED BUILDING FIRST FLOOR IS 5'-0" LOWER THAN THE LOCAL PROJECT REF DATUM EL 583'-6" FOR THE HEAD BUILDING FIRST FLOOR.

HRS-2. TOP OF HIGH ROOF STEEL FOR THE SHED BUILDING (UNDERSIDE OF DECK ALONG COL LINE G.3) IS AT EL 612'-0" (+33'-6" ABOVE SHED BLDG LOCAL REFERENCE DATUM EL 0'-0" IN NOTE HRS-1 UNLESS OTHERWISE NOTED + OR - AND MEASURED FROM EL 612'-0").

HRS-3. ROOF DECK: 1 1/2" GALV 20 GA TYPE B METAL ROOF DECK (NOT PAINTED). SEE PLAN FOR DIRECTION OF SPAN AND TYPICAL ATTACHMENT DETAIL ON DWG S-601. CONTRACTOR SHALL COORD EDGE OF DECK (E.O.D.) AND LOCATIONS OF WOOD BLOCKING SUPPORT STEEL W/ ARCH DETAILS..

HRS-4. PROVIDE ROOF OPENING FRAMES PER TYPICAL DETAILS ON DWG S-601 FOR ALL OPENINGS GREATER THAN OR EQUAL TO 12" IN ANY DIRECTION. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR OPENINGS REQUIRED AND COORDINATE OPENING SIZES AND LOCATIONS WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

HRS-5. PROVIDE SUPPORT FRAMING FOR MECHANICAL EQUIPMENT PER TYPICAL DETAILS ON DWG S-601. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRED AND COORDINATE ALL DIMENSIONAL REQUIREMENTS FOR SUPPORT FRAMING (INCLUDING SIZES AND LOCATIONS) WITH APPROVED EQUIPMENT OR ACCESSORIES SHOP DRAWINGS AND TRADE INVOLVED.

HRS-6. SEE DWG S-601 FOR ADDITIONAL FRAMING DETAILS, DESIGN PARAMETERS AND GENERAL NOTES.

KEY:

—◀ - DESIGNATES MOMENT FRAME CONNECTION SEE TYPICAL DETAILS ON DWG S-602

X k - DESIGNATES MEMBER UN-FACTORED END REACTIONS (GRAVITY LOADS).

FOR MEMBERS NOT LABELED, UN-FACTORED END REACTION LESS THAN OR EQUAL TO 10 KIPS

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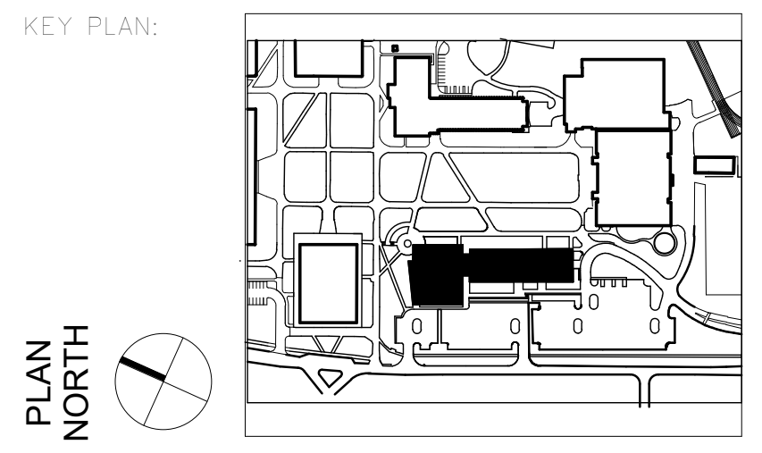


PROJECT:

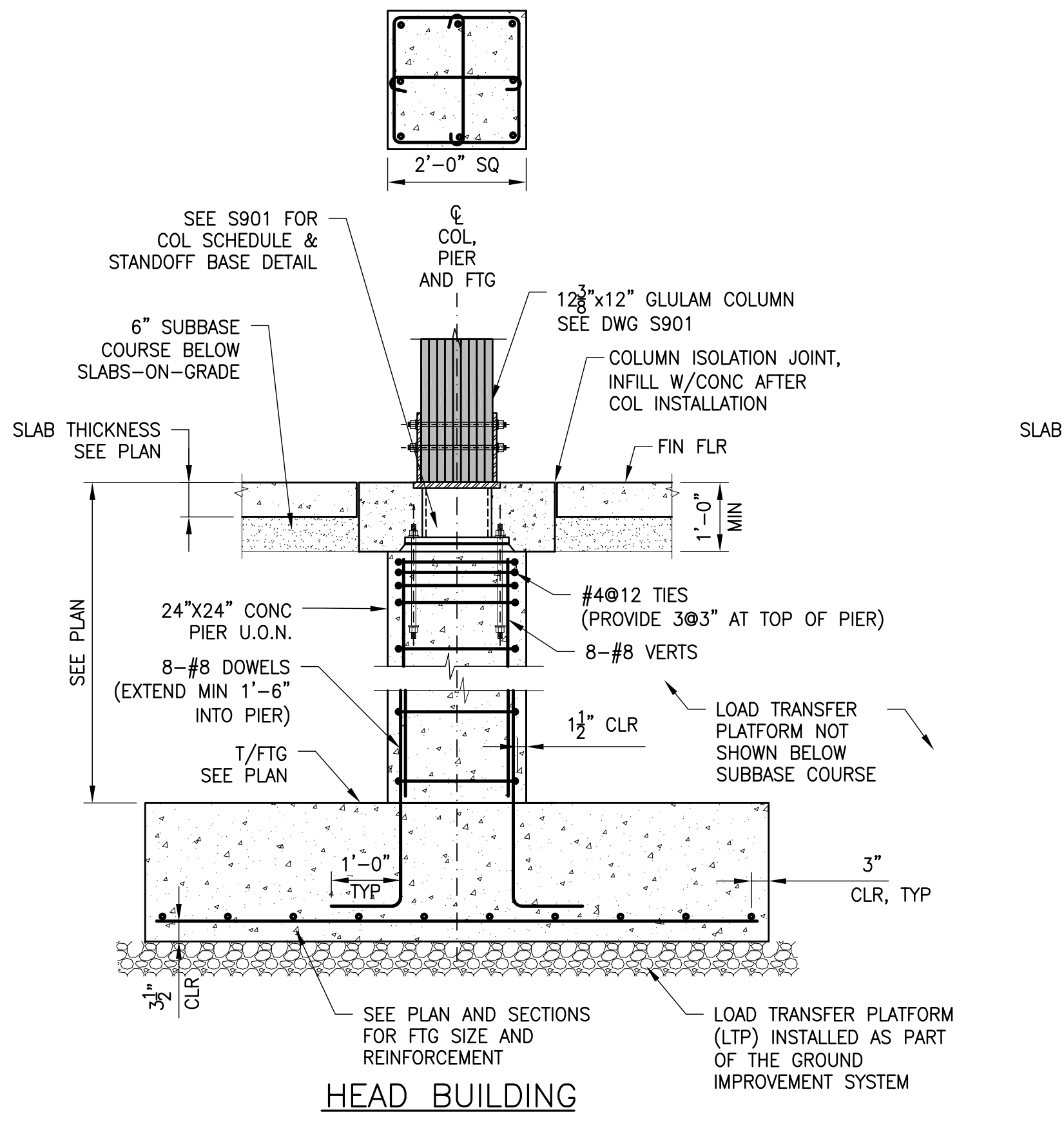
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

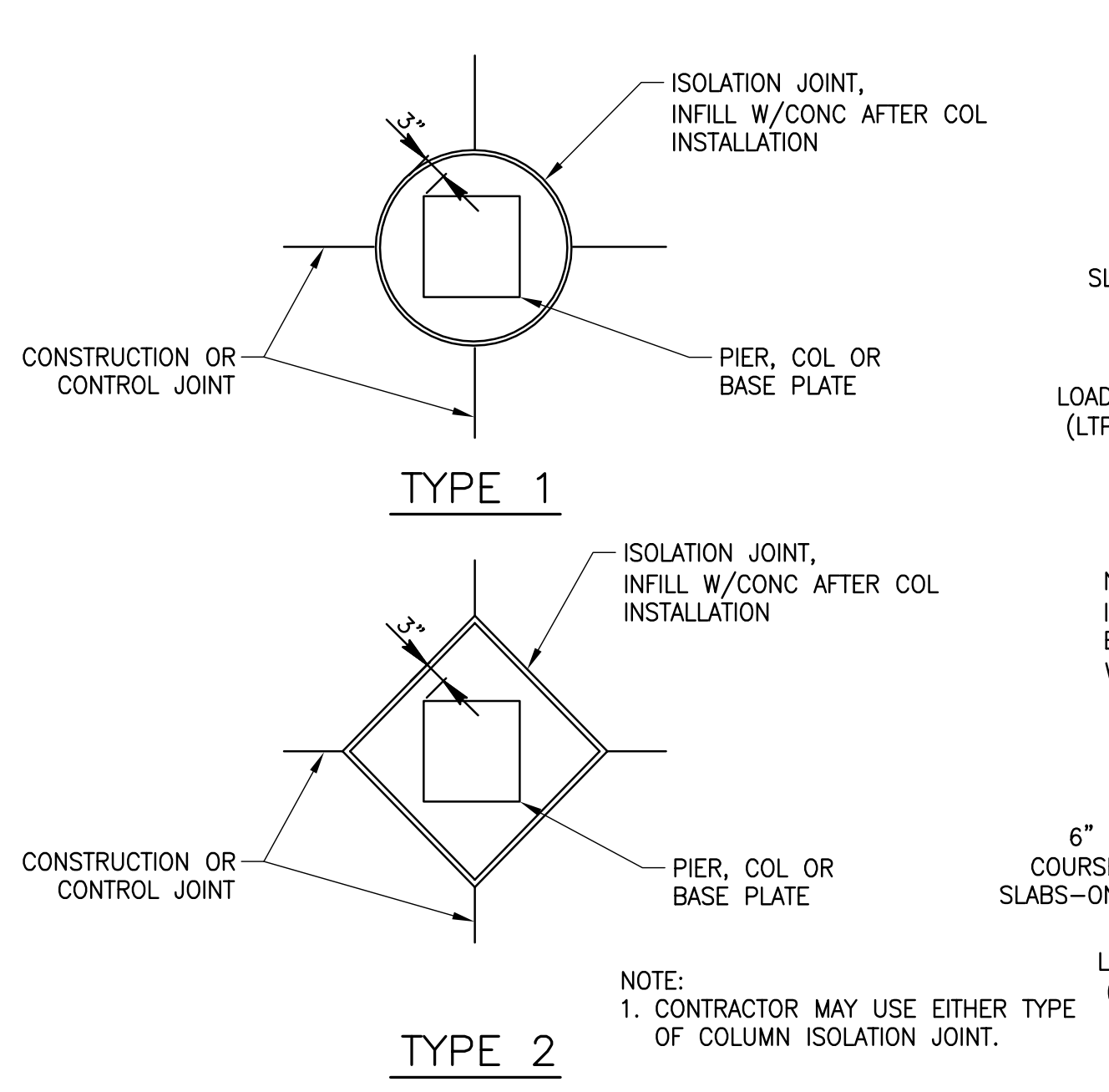
SHED BUILDING - HIGH ROOF FRAMING PLAN

PROJECT NO: 23000
DATE: 9/23/25
PHASE: REBID & CONSTRUCTION
SCALE: 1/8" = 1'-0"

S-302

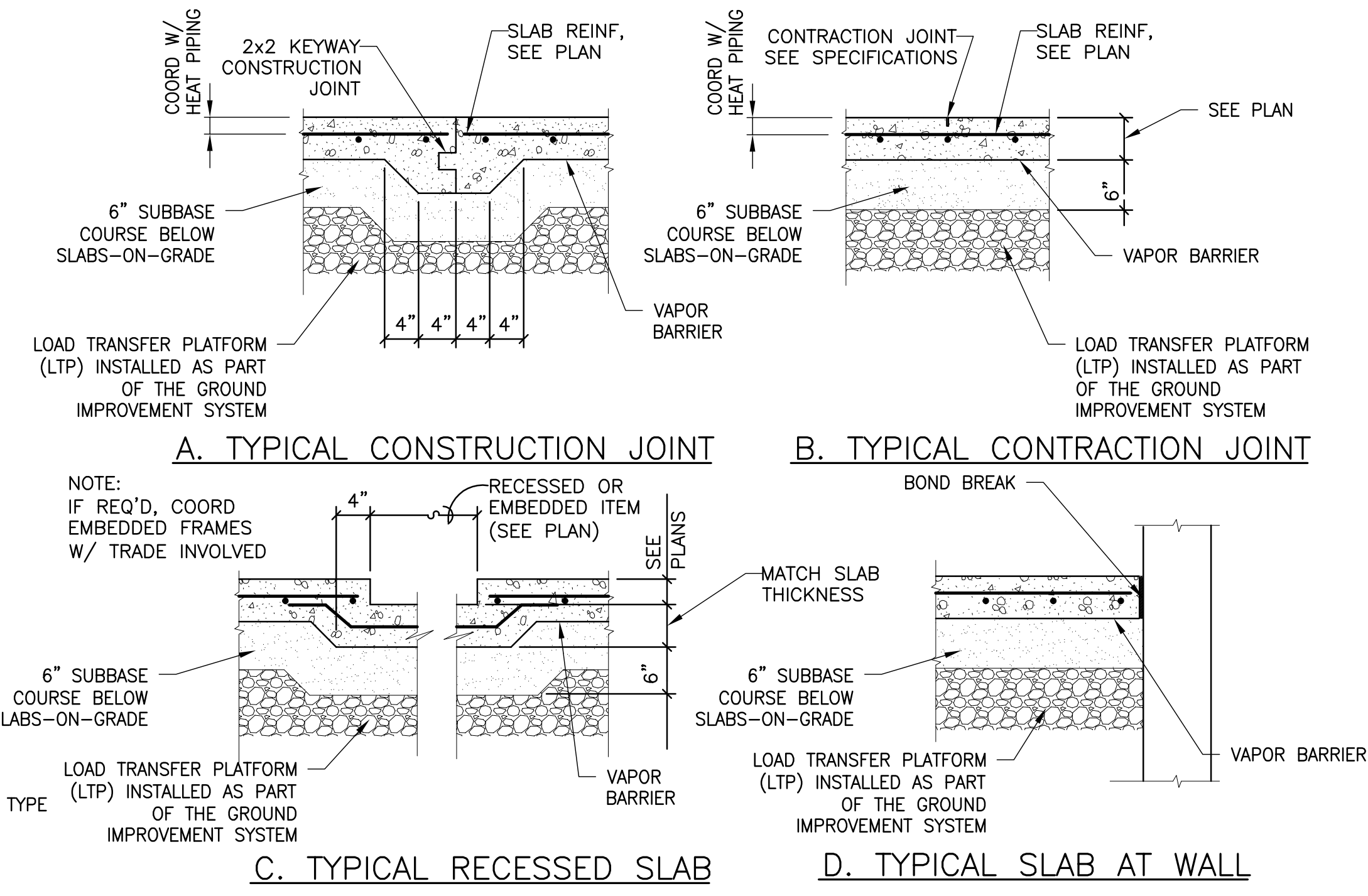

2'-0" SQ
COL, PIER AND FTG
SEE S901 FOR COL SCHEDULE & STANDOFF BASE DETAIL
SEE S701 FOR COL SCHEDULE & BASE PLATE DETAIL
12¼"x12" GLULAM COLUMN SEE DWG S901
HSS STEEL COLUMN SEE DWG S701
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
COLUMN ISOLATION JOINT, INFILL W/CONC AFTER COL INSTALLATION
SLAB THICKNESS SEE PLAN
FIN FLR
24"X24" CONC PIER U.O.N.
#4@12 TIES (PROVIDE 3@3" AT TOP OF PIER)
8-#8 DOWELS (EXTEND MIN 1'-6" INTO PIER)
8-#8 VERTS
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
T/FTG SEE PLAN
3" CLR, TYP
SEE PLAN AND SECTIONS FOR FTG SIZE AND REINFORCEMENT
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
HEAD BUILDING
SHED BUILDING

1 ISOLATED PIER AND FOOTING
S-401 NO SCALE


ISOLATION JOINT, INFILL W/CONC AFTER COL INSTALLATION
CONSTRUCTION OR CONTROL JOINT
PIER, COL OR BASE PLATE
TYPE 1
TYPE 2

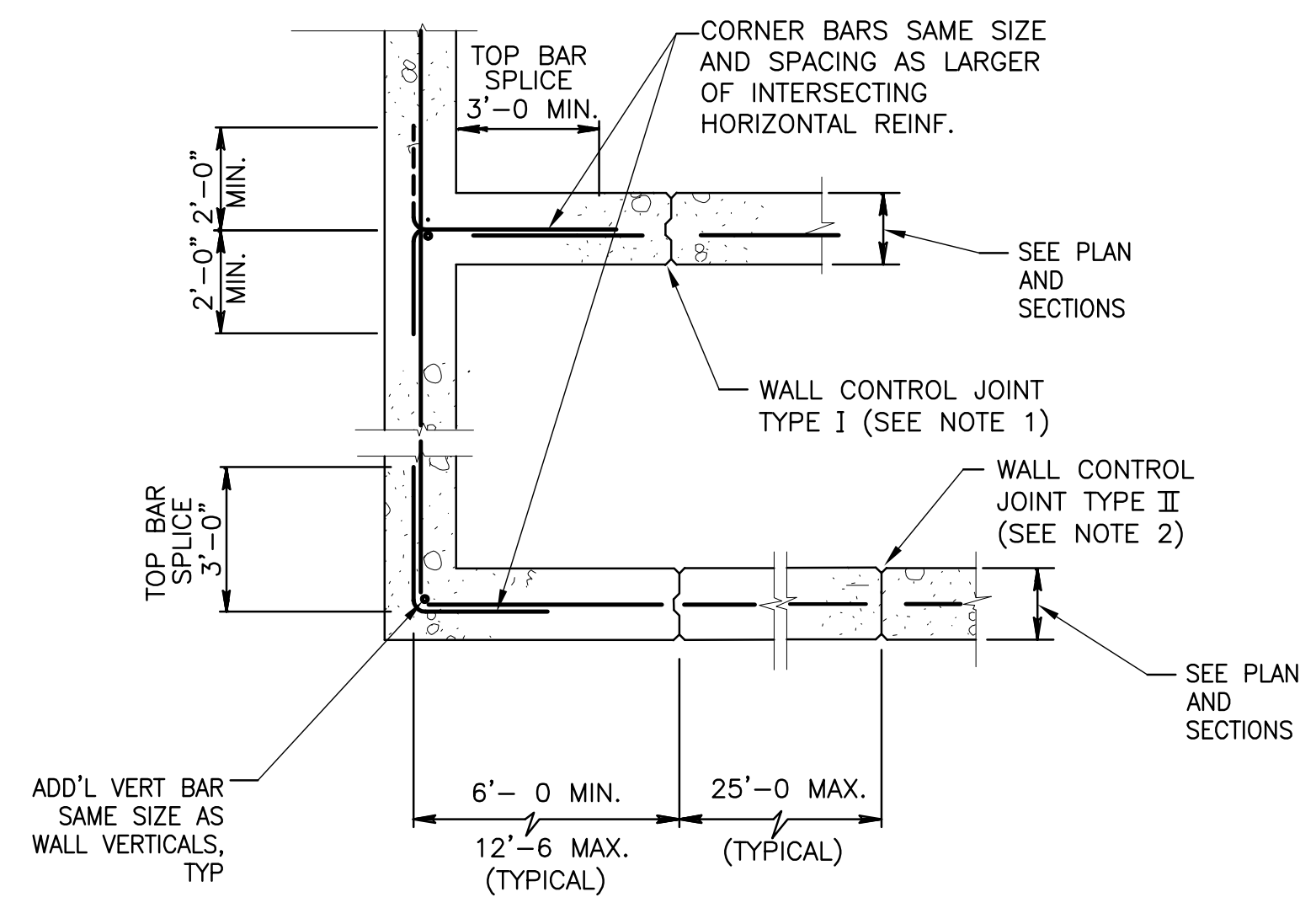
NOTE:
1. CONTRACTOR MAY USE EITHER TYPE OF COLUMN ISOLATION JOINT.

2 ISOLATED COLUMN JOINT
S-401 NO SCALE


COORD W/ HEAT PIPING
2x2 KEYWAY CONSTRUCTION JOINT
SLAB REINF, SEE PLAN
CONTRACTION JOINT SEE SPECIFICATIONS
SEE PLAN
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
VAPOR BARRIER
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
A. TYPICAL CONSTRUCTION JOINT
B. TYPICAL CONTRACTION JOINT
NOTE: IF REQ'D, COORD EMBEDDED FRAMES W/ TRADE INVOLVED
RECESSED OR EMBEDDED ITEM (SEE PLAN)
BOND BREAK
MATCH SLAB THICKNESS
SEE PLAN
C. TYPICAL RECESSED SLAB
D. TYPICAL SLAB AT WALL

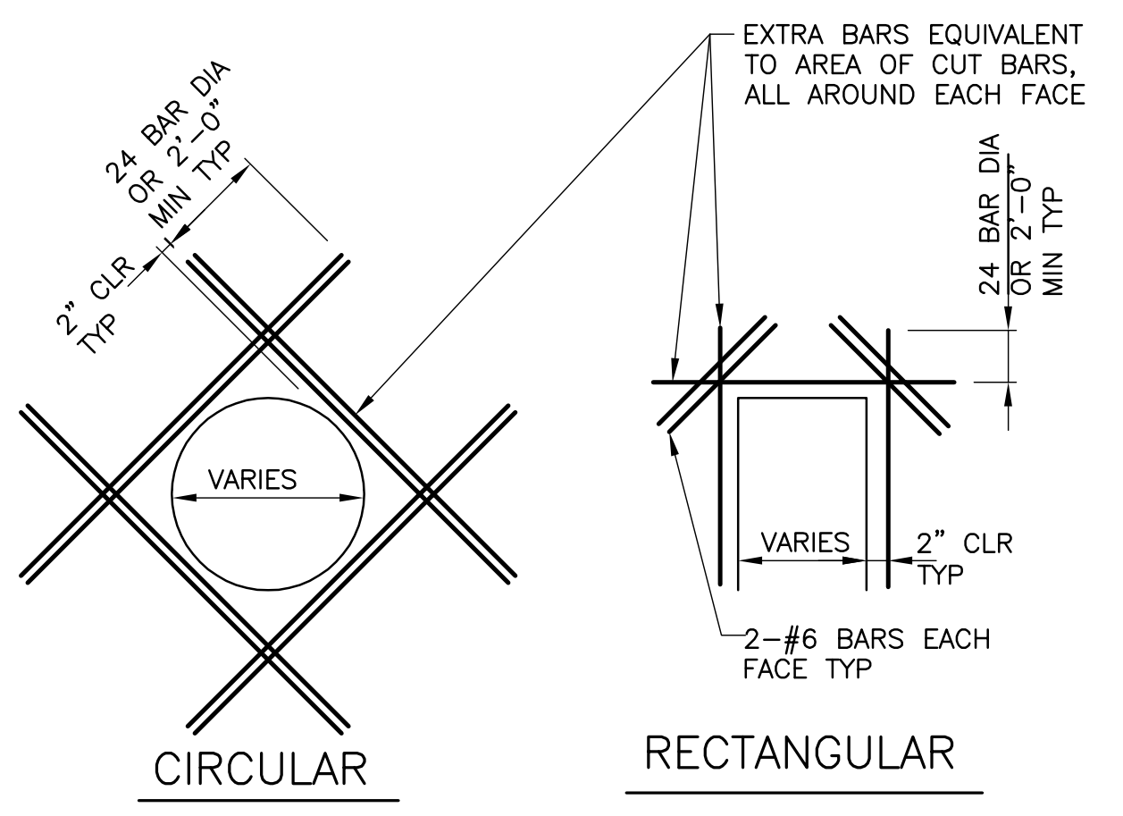
NOTES:
1. ALL CONCRETE FOR SLAB ON GRADE SHALL BE F'c PER SPECIFICATION SECTION 03300 CAST-IN-PLACE CONCRETE.
2. REBAR TO BE RECESSED OR LAPPED AT ALL RECESSES.
3. REBAR SHALL BE SUPPORTED AND LAPPED PER THE SPECIFICATIONS.

3 TYPICAL SLAB ON GRADE
S-401 NO SCALE


TOP BAR SPLICE 3'-0 MIN.
CORNER BARS SAME SIZE AND SPACING AS LARGER OF INTERSECTING HORIZONTAL REINF.
SEE PLAN AND SECTIONS
WALL CONTROL JOINT TYPE I (SEE NOTE 1)
WALL CONTROL JOINT TYPE II (SEE NOTE 2)
SEE PLAN AND SECTIONS
ADD'L VERT BAR SAME SIZE AS WALL VERTICALS, TYP
6'- 0 MIN.
12'-6 MAX. (TYPICAL)
25'-0 MAX. (TYPICAL)

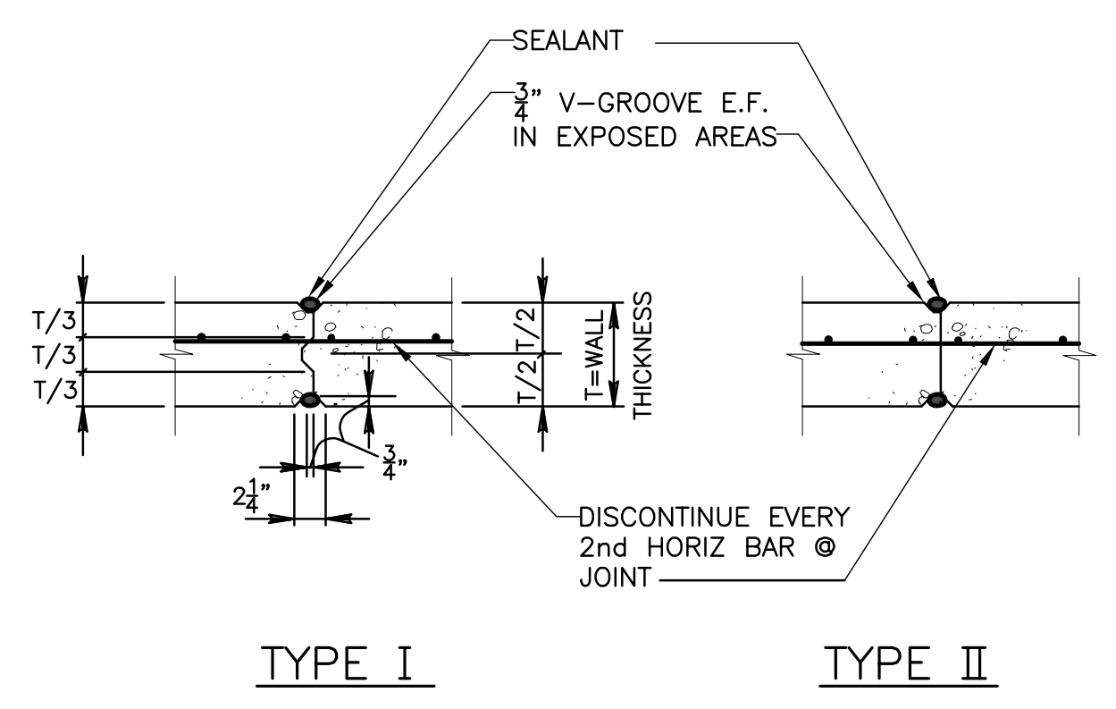
NOTES:
1. NO WALL CONTROL JOINT IS ALLOWED WITHIN 6 FEET OF CORNERS OR INTERSECTING WALLS. PROVIDE WALL CONSTRUCTION JOINT IN THESE AREAS IF JOINT IS REQUIRED.
2. PROVIDE WALL CONTROL JOINTS @ 25'-0 O.C. MAX. PROVIDE TYPE I WHEN LOCATION OF CONTROL JOINT COINCIDES WITH CONSTRUCTION JOINT LOCATION. PROVIDE TYPE II WHEN LENGTH OF WALL POUR EXCEEDS 25'-0.

4 TYPICAL WALL CORNER REINFORCEMENT
S-401 NO SCALE

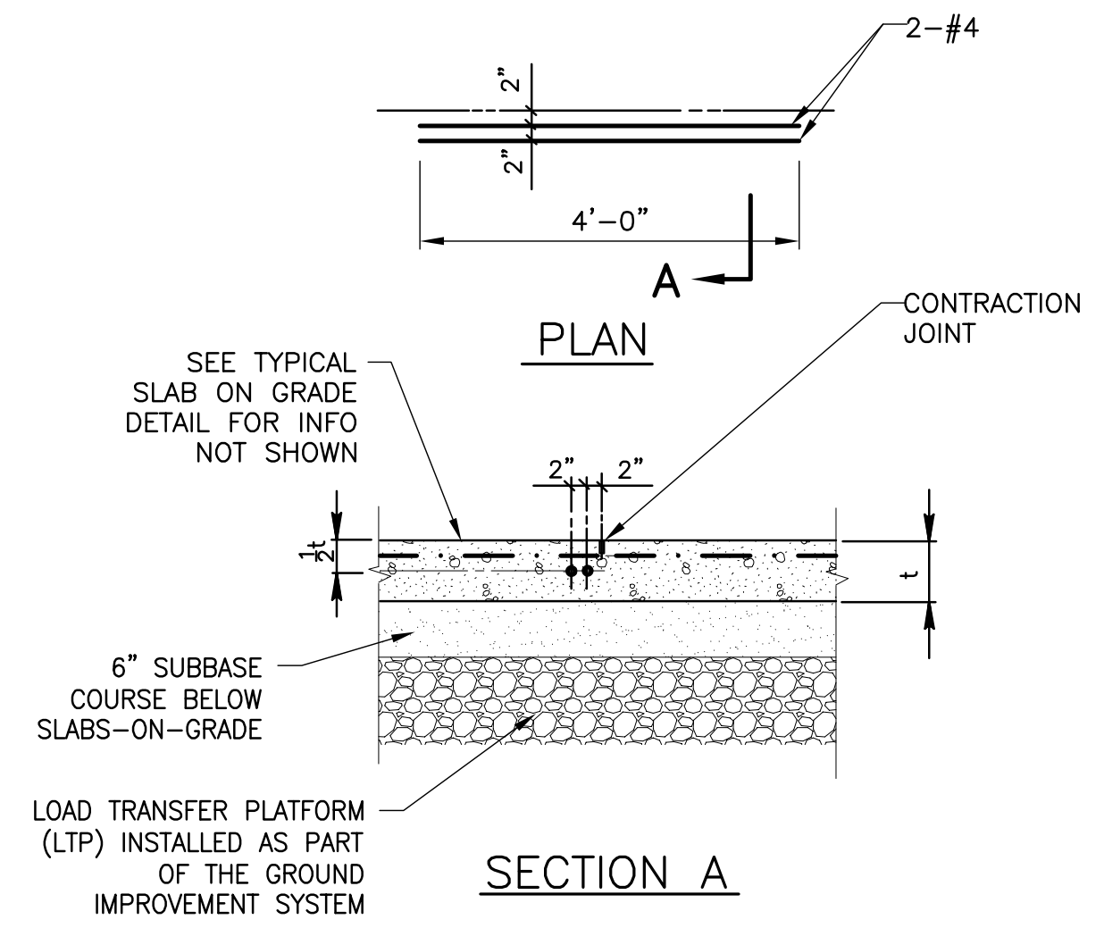

EXTRA BARS EQUIVALENT TO AREA OF CUT BARS, ALL AROUND EACH FACE
24 BAR DIA OR 2'-0"
2" CLR TYP
VARIES
2-#6 BARS EACH FACE TYP
CIRCULAR
RECTANGULAR

NOTE:
DETAIL APPLIES TO OPENINGS GREATER THAN 12" IN ANY DIRECTION

5 OPENING REINFORCEMENT
S-401 NO SCALE


SEALANT
¾" V-GROOVE E.F. IN EXPOSED AREAS
T/3
WALL THICKNESS
DISCONTINUE EVERY 2nd HORIZ BAR @ JOINT
TYPE I
TYPE II

6 TYPICAL WALL CONTROL JOINT
S-401 NO SCALE


2-#4
4'-0"
PLAN
A
CONTRACTION JOINT
SEE TYPICAL SLAB ON GRADE DETAIL FOR INFO NOT SHOWN
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
SECTION A

7 DISCONTINUOUS CONTRACTION JOINT
S-401 NO SCALE

BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENTS, FOUNDATION DESIGN PARAMETERS AND GENERAL NOTES:

F-1. THE BUILDING PAD SITE PREPARATION WITH GROUND IMPROVEMENTS, THE FOUNDATION SYSTEM AND DESIGN PARAMETERS, AND THE GENERAL NOTES PRESENTED ON THE DRAWINGS AND WITHIN THE PROJECT SPECIFICATIONS ARE BASED ON INFORMATION CONTAINED WITHIN THE REFERENCED GEOTECHNICAL INFORMATION AND REPORTS PREPARED BY CME ASSOCIATES, INC. IDENTIFIED ON DRAWING S-100, IN SPECIFICATION SECTION 312000 – BUILDING EARTH MOVING, AND GENERALLY ACCEPTED GOOD ENGINEERING PRACTICES.

F-2. THE RESULTS OF THE SUBSURFACE CONDITIONS IDENTIFIED IN CME'S SUBSURFACE EXPLORATIONS AND TEST PITS AT THE PROJECT SITE INDICATE THE SITE CONTAINS UNSUITABLE / UNRELIABLE BEARING MATERIALS (EXISTING UNCONTROLLED FILL) RANGING FROM ABOUT 3-FEET TO 13-FEET BELOW EXISTING GRADES, UNDERLAIN BY A BURIED ORGANIC LAYER (TO APPROXIMATELY 8 TO 11 FEET BELOW EXISTING GRADE IN AREAS). THE EXISTING FILL MATERIAL DOES NOT APPEAR TO HAVE BEEN PLACED IN A PREPARED MANNER AND MEETS THE BUILDING CODE DEFINITION OF UNPREPARED FILL. UNPREPARED FILL IS ASSIGNED A ZERO-BEARING CAPACITY BY THE BUILDING CODE AND IS DEEMED UNSUITABLE SOILS. THE BURIED ORGANIC LAYER IS ALSO NOT RELIABLE BEARING MATERIAL TO SUPPORT BUILDING FOUNDATIONS AND SLABS-ON-GRADES. REFER TO THE ABOVE NOTED REPORTS CONTAINED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

BASED ON THE INFORMATION PROVIDED AND DISCUSSED, THE EXISTING SUBSURFACE CONDITIONS IDENTIFIED ARE NOT FAVORABLE TO SUPPORT THE PROPOSED STRUCTURES UTILIZING A CONVENTIONAL SHALLOW FOUNDATIONS AND SLABS-ON-GRADE SYSTEMS WITHOUT INCORPORATING A GROUND IMPROVEMENT SYSTEM.

F-3. TO ALLOW THE INSTALLATION OF THE CONVENTIONAL SHALLOW FOUNDATIONS AND SLAB-ON-GRADE SYSTEM AS DESIGNED AND AS SHOWN ON THE CONTRACT DOCUMENTS FOR THE PROPOSED BUILDINGS, THE SPECIFIED GROUND IMPROVEMENT SYSTEM IS REQUIRED TO BE PERFORMED UNDER THE ENTIRE FOOTPRINT OF BOTH THE HEAD BUILDING AND THE SHED BUILDING.

F-4. THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENT REQUIREMENTS IDENTIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.

REFER TO DRAWINGS S-100 FOR BUILDING PAD SITE PREPARATION / GROUND IMPROVEMENTS GENERAL NOTES FOR ADDITIONAL INFORMATION.

F-5. THE CONTRACTOR SHALL FOLLOW ALL EXCAVATION SAFETY PRACTICES AS MANDATED BY 29 CFR PART 1926 (OSHA) AND ALL APPLICABLE STATE AND LOCAL REGULATIONS. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCE OF ALL CONSTRUCTION ACTIVITIES.

F-6. THE CONTRACTOR SHALL ASSUME THE ON-SITE EXCAVATED SOIL SHALL NOT BE RE-USED WITHIN STRUCTURAL AREAS OF THE SITE OR STRUCTURES.

~~HOWEVER, THE CONTRACTOR HAS THE OPTION TO STOCKPILE THE EXCAVATED EXISTING ON-SITE MATERIAL AS DIRECTED BY THE OWNER'S ON-SITE REPRESENTATIVE FOR CONSIDERATION AND TESTING FOR RE-USE AS ON-SITE FILL MATERIALS. APPROVAL FOR RE-USE SHALL BE BY THE SPECIAL INSPECTOR'S PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE) WHO WILL VERIFY CONFORMANCE AND IF THE MATERIAL IS SUITABLE FOR RE-USE.~~

ALL IMPORTED BORROW MATERIALS ~~AND SATISFACTORY EXCAVATED SOIL MATERIALS~~ SHALL BE STOCKPILED WITHOUT INTERMIXING. PLACE, GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST. STOCKPILE SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINES OF REMAINING TREES.

IF THE EXCAVATED EXISTING SOIL MATERIALS ARE DEEMED TO BE UNSUITABLE, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE MATERIALS FROM THE SITE AND LEGALLY DISPOSE OF THEM AT NO ADDITIONAL COST TO THE OWNER OR PROJECT.

REFER TO SPECIFICATION SECTION 31 20 00 "BUILDING EARTH MOVING" FOR ADDITIONAL INFORMATION.

F-7. PLEASE BE ADVISED THAT INFORMATION FOR ANY EXISTING UTILITIES IN THE AREA OF NEW CONSTRUCTION IS NOT SHOWN ON THE FOUNDATION PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE SITE DRAWINGS TO THE GREATEST EXTENT POSSIBLE REGARDING KNOWN UTILITIES AND SHALL ALSO USE EXTREME CARE DURING EXCAVATION FOR ALL NEW WORK SO AS NOT TO DAMAGE OR INTERRUPT EXISTING UNDERGROUND UTILITIES".

F-8. LEVELS OF BACKFILL AGAINST FOUNDATION WALLS SHALL NOT DIFFER BY MORE THAN 2'-0" ON EITHER SIDE OF WALLS, UNLESS WALLS ARE ADEQUATELY BRACED OR GRADE LEVEL SLABS ARE IN PLACE.

F-9. STEP FOOTINGS WHERE ELEVATIONS CHANGE AT ONE VERTICAL ON TWO HORIZONTAL. PLACE LOW FOOTINGS FIRST.

F-10. CONCRETE GENERAL NOTES APPLY TO FOUNDATIONS.

F-11. WALL OPENINGS: 2- #6 FOUR SIDES, EXTEND 2'-0" BEYOND OPENINGS UNLESS OTHERWISE NOTED (U.O.N.).

F-12. WALL CONSTRUCTION JOINTS: PROVIDE PER TYPICAL DETAIL.

F-13. WALL, PIER AND STEPPED FOOTINGS: PROJECT 6", 16" THICK, U.O.N.

CONCRETE

C-1. CONCRETE PARAMETERS: REFER TO SPECIFICATIONS FOR ADD'L INFO.
- a) BUILDING FOOTING CONCRETE STRENGTH: 4000 PSI AT 28 DAYS. WEIGHT: 145 PCF
- b) BUILDING FOUNDATION WALL CONCRETE STRENGTH: 4500 PSI AT 28 DAYS. WEIGHT: 145 PCF
- c) INTERIOR SLABS-ON-GRADE CONCRETE STRENGTH: 4000 PSI AT 28 DAYS. WEIGHT: 145 PCF
- d) EXTERIOR APRON SLABS-ON-GRADE AND FROST WALLS AT OVERHEAD DOORS AND MAN-DOOR OPENINGS: 4500 PSI AT 28 DAYS. WEIGHT: 145 PCF

C-2. ROD REINFORCEMENT: ASTM A615, GRADE 60. ASTM A615-81 SUPPLEMENTARY REQUIREMENT S1 SHALL APPLY.

C-3. WELDED WIRE FABRIC REINFORCEMENT: ASTM A185 AND A82.

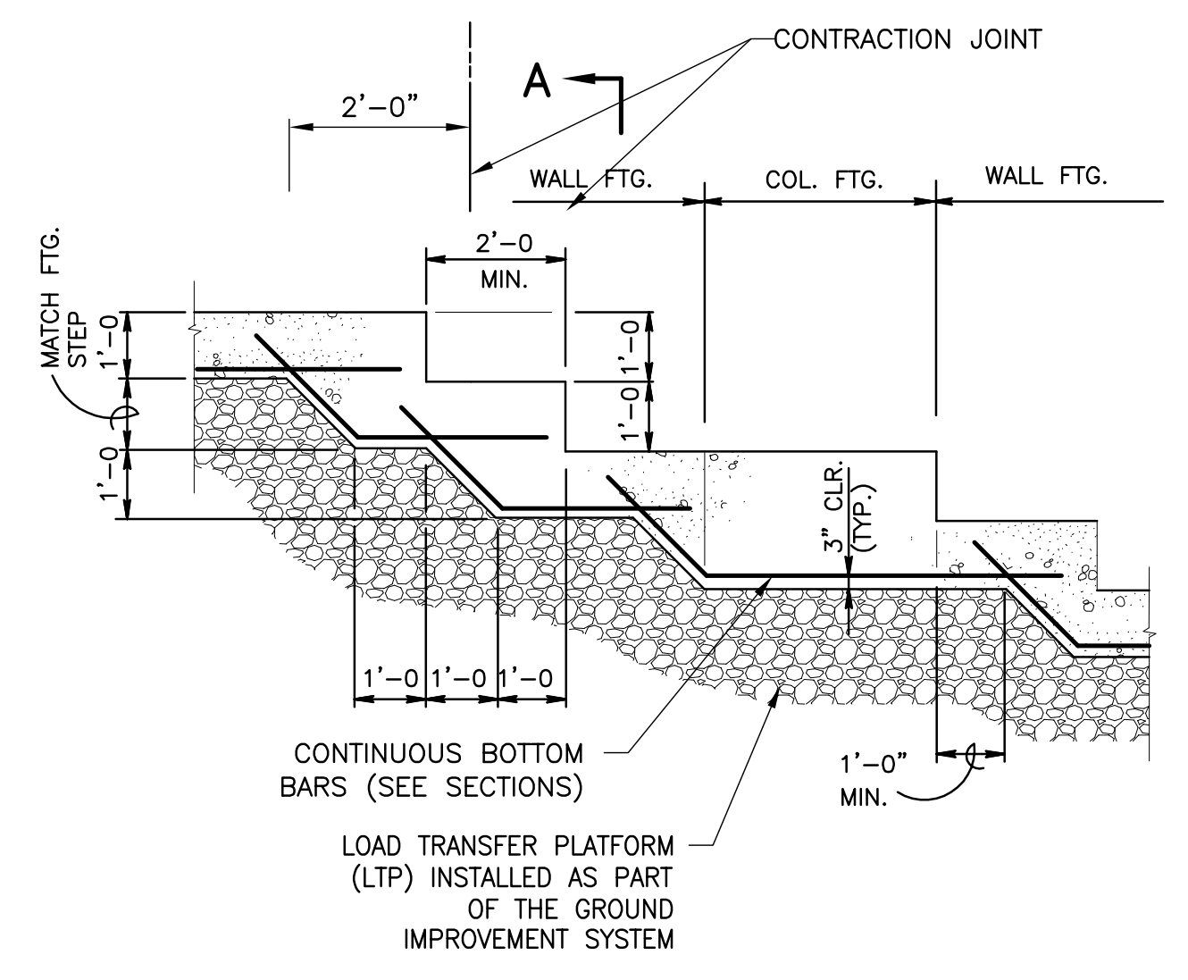
C-4. DETAILS, WORKMANSHIP AND GENERAL PROCEDURE: ACI 318, ACI 315, ACI 301

C-5. THE MIN. LENGTH OF LAPS FOR SPLICES AND EMBEDMENT LENGTHS SHALL BE IN ACCORDANCE WITH ACI REQUIREMENTS, LATEST EDITION.

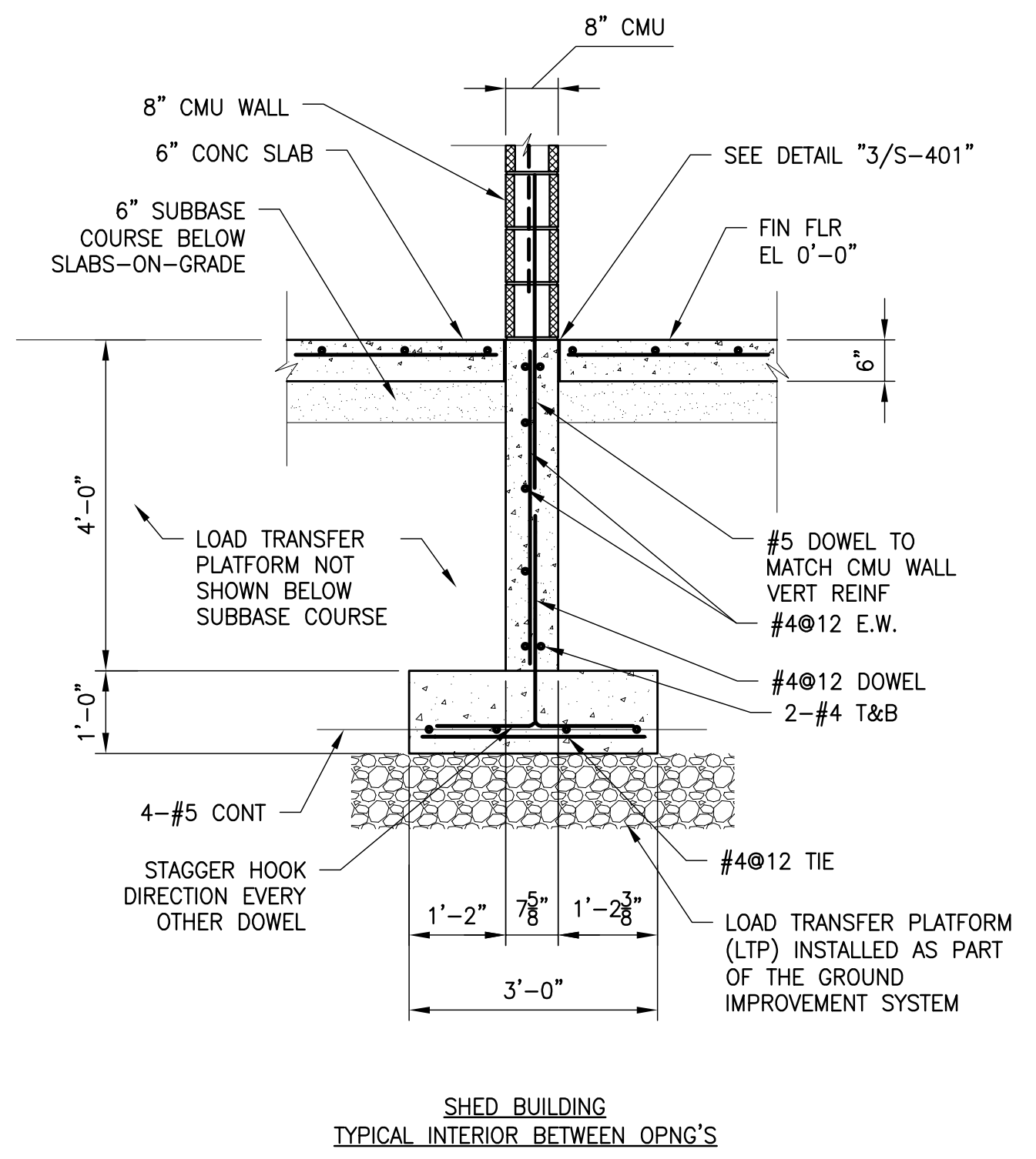
TESTING AGENCY SERVICES DURING CONSTRUCTION

TS-1. ALL EARTHWORK OPERATIONS, SUBGRADE COMPACTION, FOOTING EXCAVATIONS AND FOUNDATION CONSTRUCTION SHALL BE ROUTINELY MONITORED, INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS BY A QUALIFIED, PRE-APPROVED TESTING AGENCY AND THE SPECIAL INSPECTING PROFESSIONAL GEOTECHNICAL ENGINEER (IPGE). TO INSURE ALL EXISTING CONDITIONS AND CONSTRUCTION ACTIVITIES COMPLY WITH DESIGN ASSUMPTIONS, RECOMMENDATIONS AND PRESUMPTIVE BEARING PRESSURES OUTLINED IN SPECIFICATION SECTION 312000 "BUILDING EARTH MOVING".

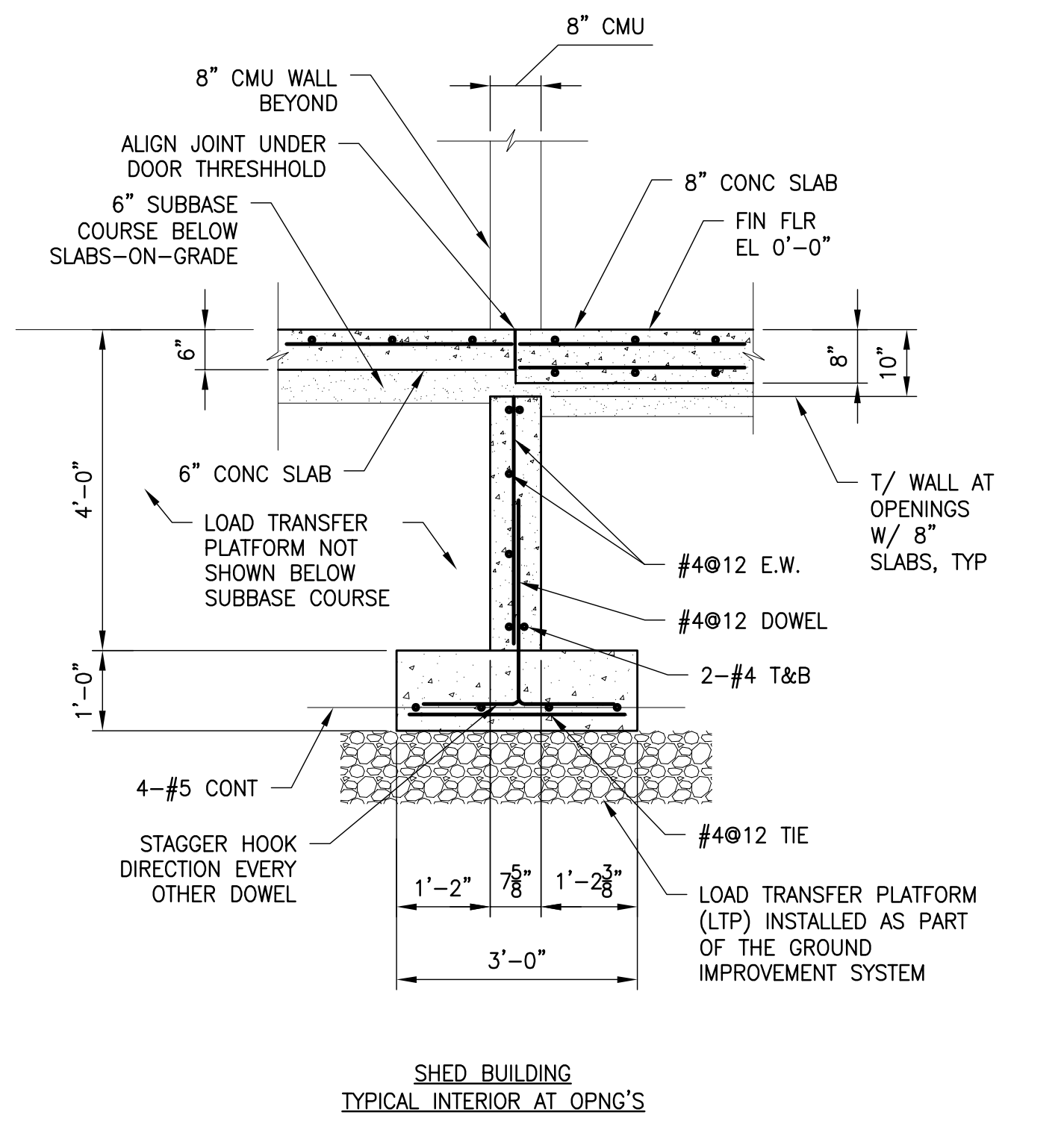
TS-2. IT IS REQUIRED THAT THE OWNER CONTRACT WITH AN APPROVED TESTING AGENCY DURING CONSTRUCTION TO VERIFY ALL DESIGN ASSUMPTIONS USED TO DESIGN AND PREPARE THE CONTRACT DOCUMENTS. USE OF THESE SERVICES TYPICALLY ALLOWS THE OWNER TO TAKE ADVANTAGE OF CONDITIONS THAT MAY BE MORE FAVORABLE THAN THOSE ANTICIPATED. CONVERSELY, CONDITIONS LESS FAVORABLE THAN THOSE ANTICIPATED ARE IDENTIFIED IN A MORE TIMELY FASHION ALLOWING FOR APPROPRIATE CORRECTIVE ACTION BEFORE PROCEEDING WITH CONSTRUCTION. REFER TO THE PROJECT MANUAL DIVISION 1, SPECIFICATION SECTION 014533 "CODE REQUIRED SPECIAL INSPECTIONS AND PROCEDURES" FOR ADDITIONAL INFORMATION.


A
CONTRACTION JOINT
2'-0"
WALL FTG.
COL. FTG.
WALL FTG.
2'-0" MIN.
MATCH FTG. STEP
3" CLR (TYP.)
1'-0" 1'-0" 1'-0"
CONTINUOUS BOTTOM BARS (SEE SECTIONS)
1'-0" MIN.
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

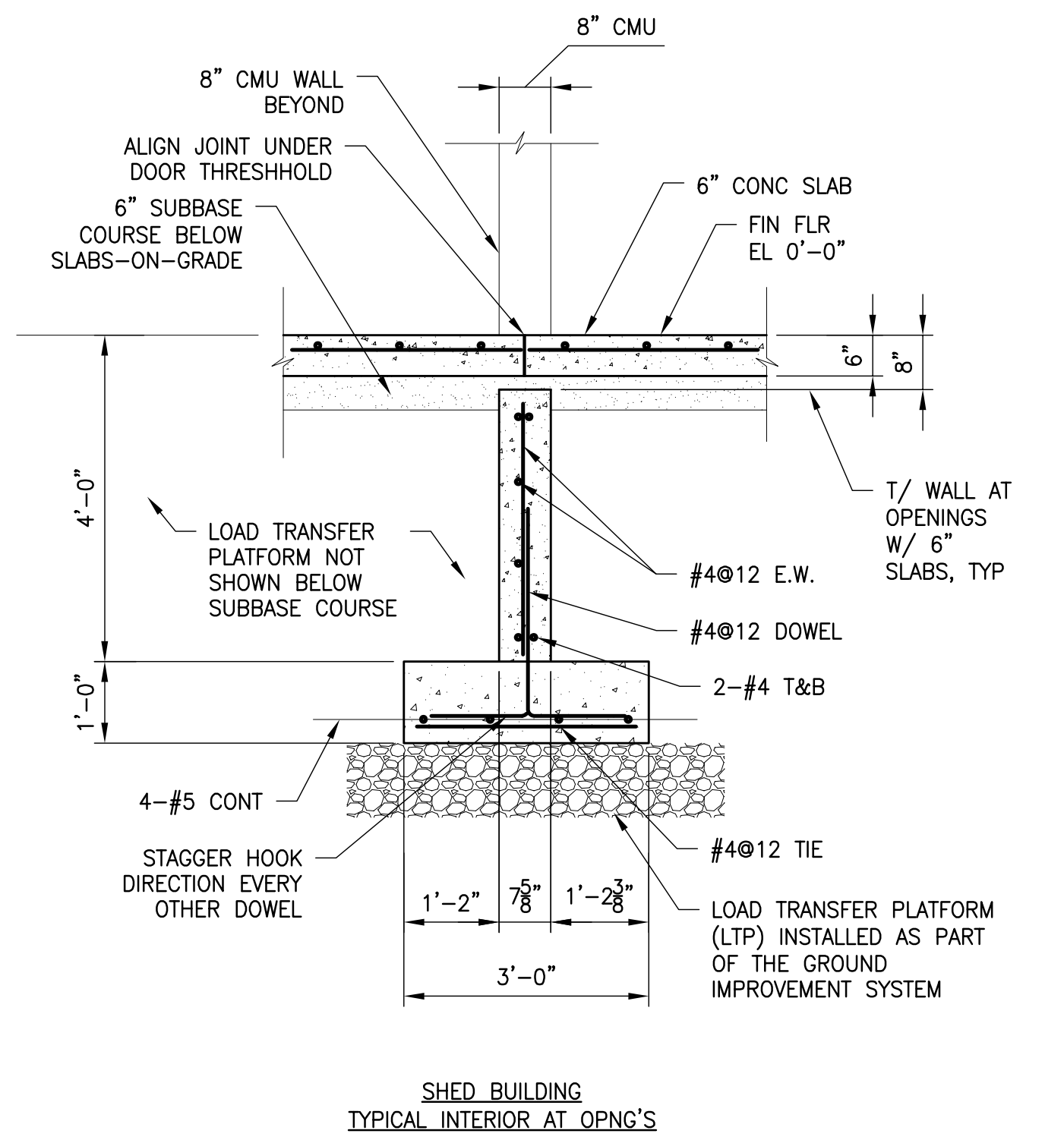
8 TYPICAL STEPPED WALL FOOTING
S-401 NO SCALE


8" CMU
8" CMU WALL
6" CONC SLAB
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE DETAIL "3/S-401"
FIN FLR EL 0'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
#5 DOWEL TO MATCH CMU WALL VERT REINF
#4@12 E.W.
#4@12 DOWEL
2-#4 T&B
4-#5 CONT
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
#4@12 TIE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
1'-2" 7/8" 1'-2 3/8"
3'-0"
SHED BUILDING
TYPICAL INTERIOR BETWEEN OPNG'S

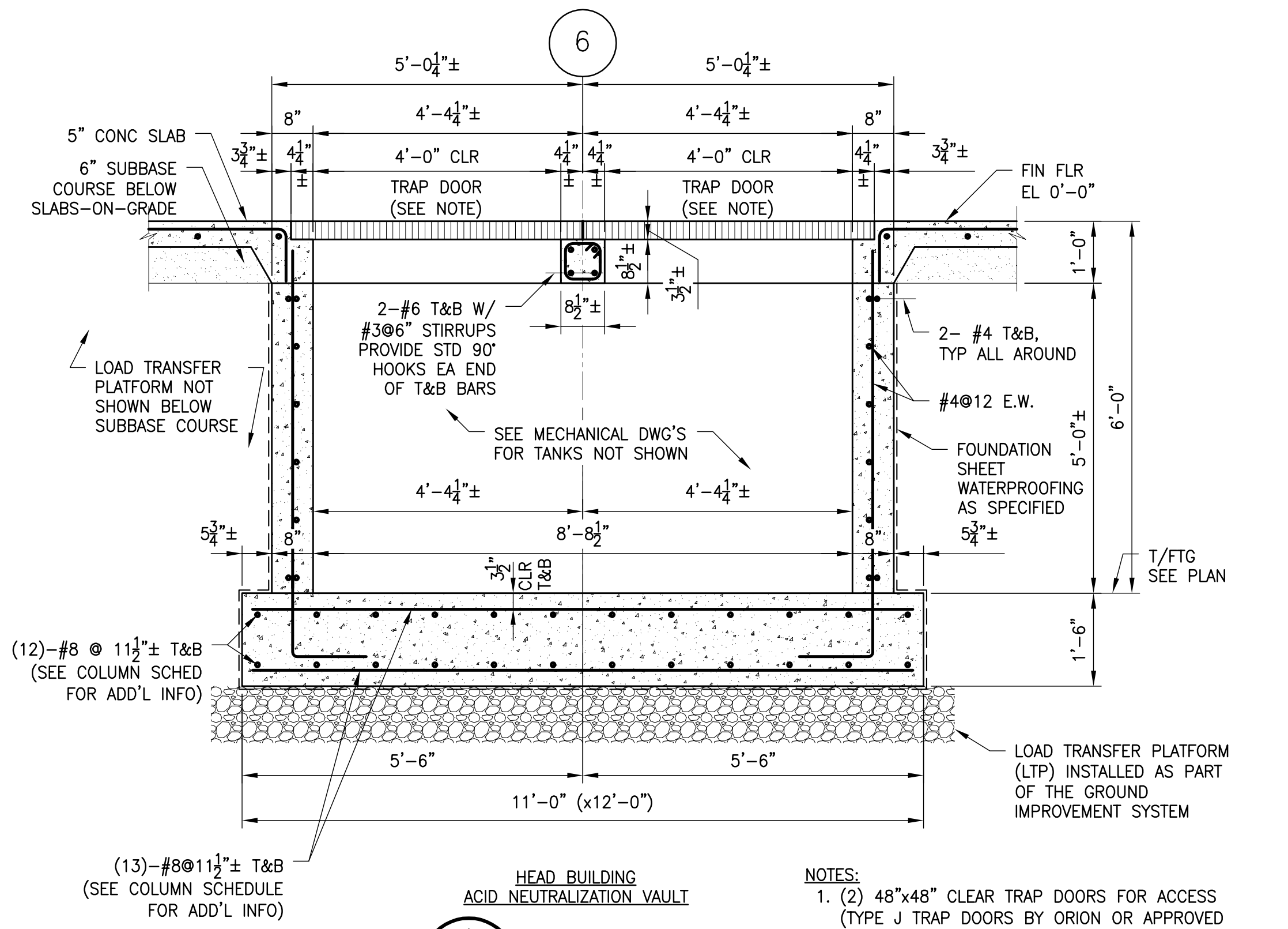
9 SECTION
S-401 1/2"=1'-0"


8" CMU
8" CMU WALL BEYOND
ALIGN JOINT UNDER DOOR THRESHOLD
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
8" CONC SLAB
FIN FLR EL 0'-0"
6" CONC SLAB
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
T/ WALL AT OPENINGS W/ 8" SLABS, TYP
#4@12 E.W.
#4@12 DOWEL
2-#4 T&B
4-#5 CONT
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
#4@12 TIE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
3'-0"
SHED BUILDING
TYPICAL INTERIOR AT OPNG'S

10A SECTION
S-401 1/2"=1'-0"

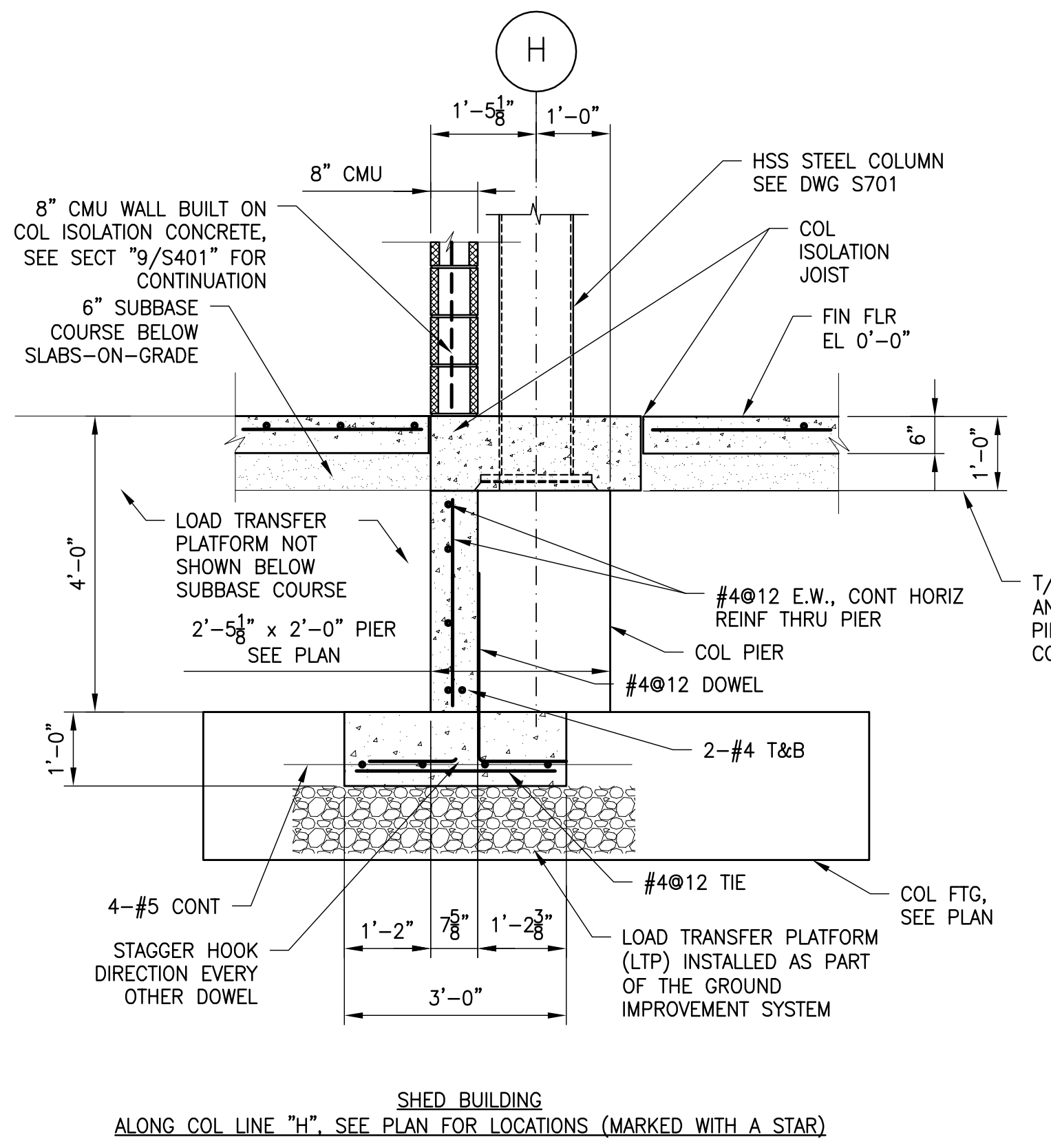

8" CMU
8" CMU WALL BEYOND
ALIGN JOINT UNDER DOOR THRESHOLD
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
6" CONC SLAB
FIN FLR EL 0'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
T/ WALL AT OPENINGS W/ 6" SLABS, TYP
#4@12 E.W.
#4@12 DOWEL
2-#4 T&B
4-#5 CONT
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
#4@12 TIE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
3'-0"
SHED BUILDING
TYPICAL INTERIOR AT OPNG'S

10B SECTION
S-401 1/2"=1'-0"

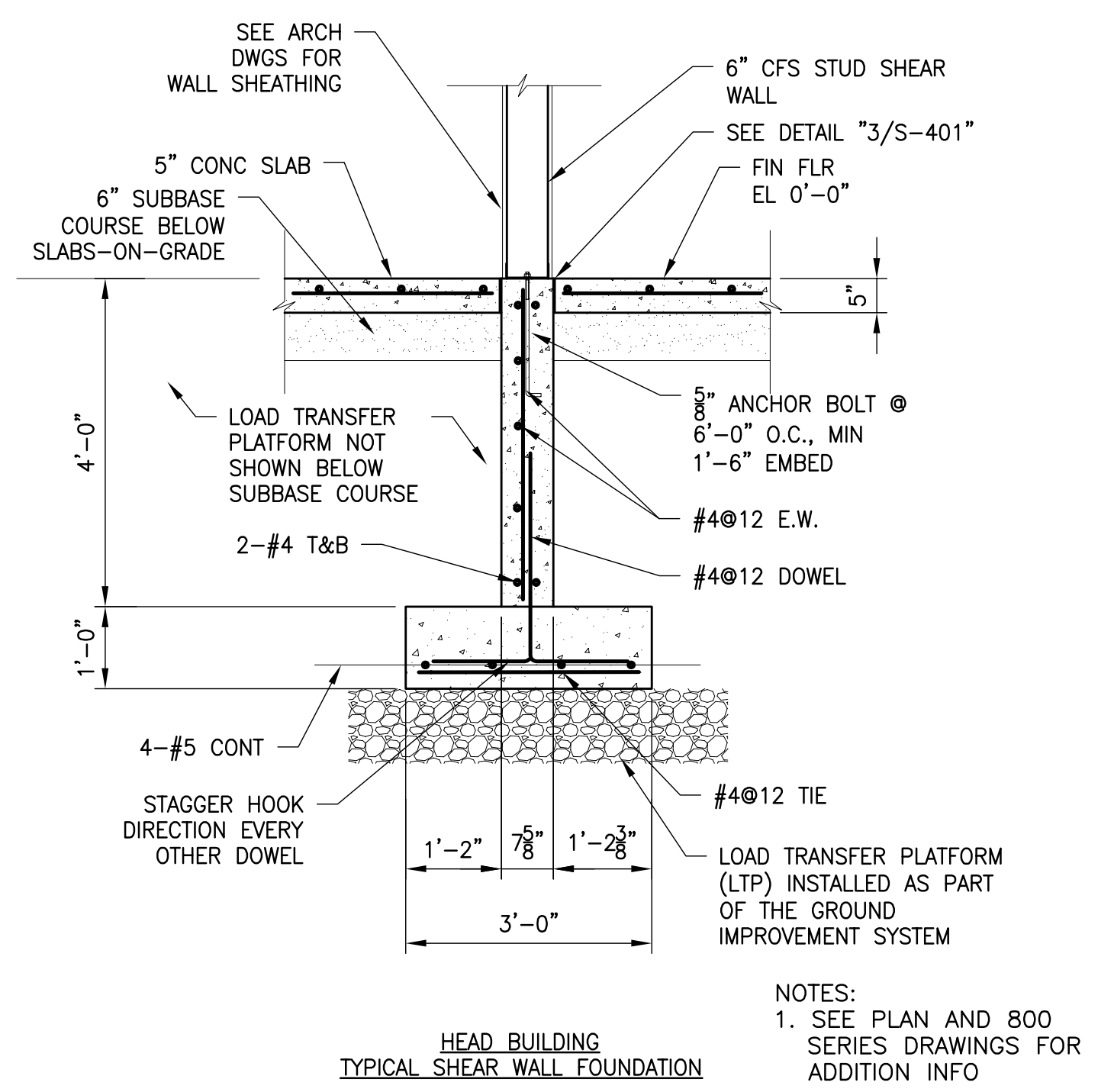

6
5'-0¼"±
8"
4'-4¼"±
4'-0" CLR
TRAP DOOR (SEE NOTE)
5" CONC SLAB
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
FIN FLR EL 0'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
2-#6 T&B W/ #3@6" STIRRUPS PROVIDE STD 90° HOOKS EA END OF T&B BARS
2- #4 T&B, TYP ALL AROUND
#4@12 E.W.
SEE MECHANICAL DWG'S FOR TANKS NOT SHOWN
FOUNDATION SHEET WATERPROOFING AS SPECIFIED
T/FTG SEE PLAN
(12)-#8 @ 11½"± T&B (SEE COLUMN SCHED FOR ADD'L INFO)
5'-6"
11'-0" (x12'-0")
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
(13)-#8@11½"± T&B (SEE COLUMN SCHEDULE FOR ADD'L INFO)
HEAD BUILDING
ACID NEUTRALIZATION VAULT

A SECTION
S-401 1/2"=1'-0"

NOTES:
1. (2) 48"x48" CLEAR TRAP DOORS FOR ACCESS (TYPE J TRAP DOORS BY ORION OR APPROVED EQUAL), SUPPLIED BY PLUMBING CONTRACTOR AND INSTALLED BY G.C.
2. SLEEVES FOR PIPING THRU FOUNDATION WALLS NOT SHOWN. COORDINATE WITH TRADES INVOLVED.

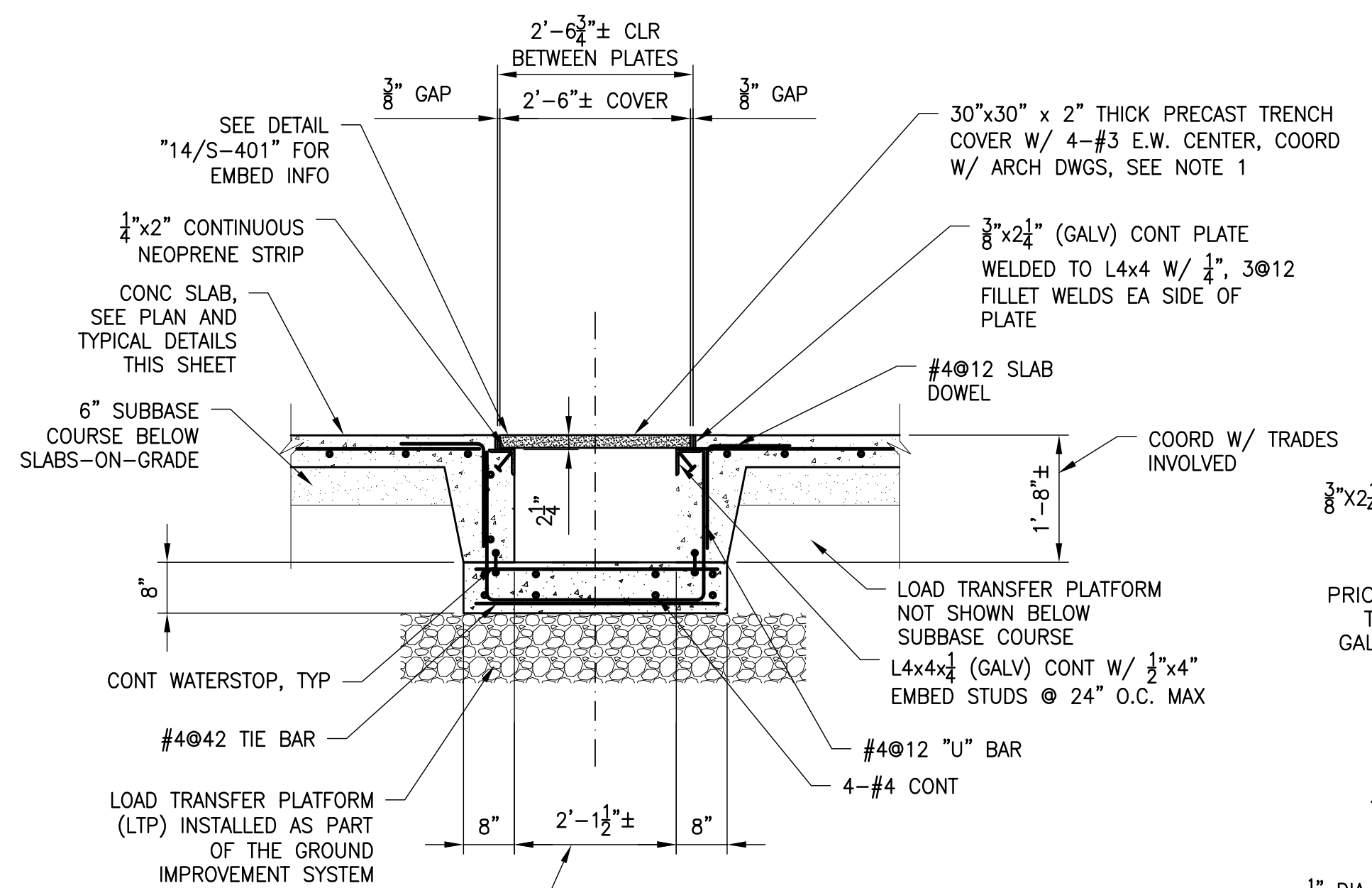

H
8" CMU WALL BUILT ON COL ISOLATION CONCRETE, SEE SECT "9/S401" FOR CONTINUATION
8" CMU
HSS STEEL COLUMN SEE DWG S701
COL ISOLATION JOIST
FIN FLR EL 0'-0"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
2'-5⅛" x 2'-0" PIER SEE PLAN
#4@12 E.W., CONT HORIZ REINF THRU PIER
COL PIER
#4@12 DOWEL
2-#4 T&B
T/ WALL AND COL PIER @ COLUMN
#4@12 TIE
4-#5 CONT
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
COL FTG. SEE PLAN
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
3'-0"
SHED BUILDING
ALONG COL LINE "H", SEE PLAN FOR LOCATIONS (MARKED WITH A STAR)

11 SECTION
S-401 1/2"=1'-0"


SEE ARCH DWGS FOR WALL SHEATHING
6" CFS STUD SHEAR WALL
SEE DETAIL "3/S-401"
5" CONC SLAB
FIN FLR EL 0'-0"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
¾" ANCHOR BOLT @ 6'-0" O.C., MIN 1'-6" EMBED
2-#4 T&B
#4@12 E.W.
#4@12 DOWEL
4-#5 CONT
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
#4@12 TIE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
3'-0"
HEAD BUILDING
TYPICAL SHEAR WALL FOUNDATION

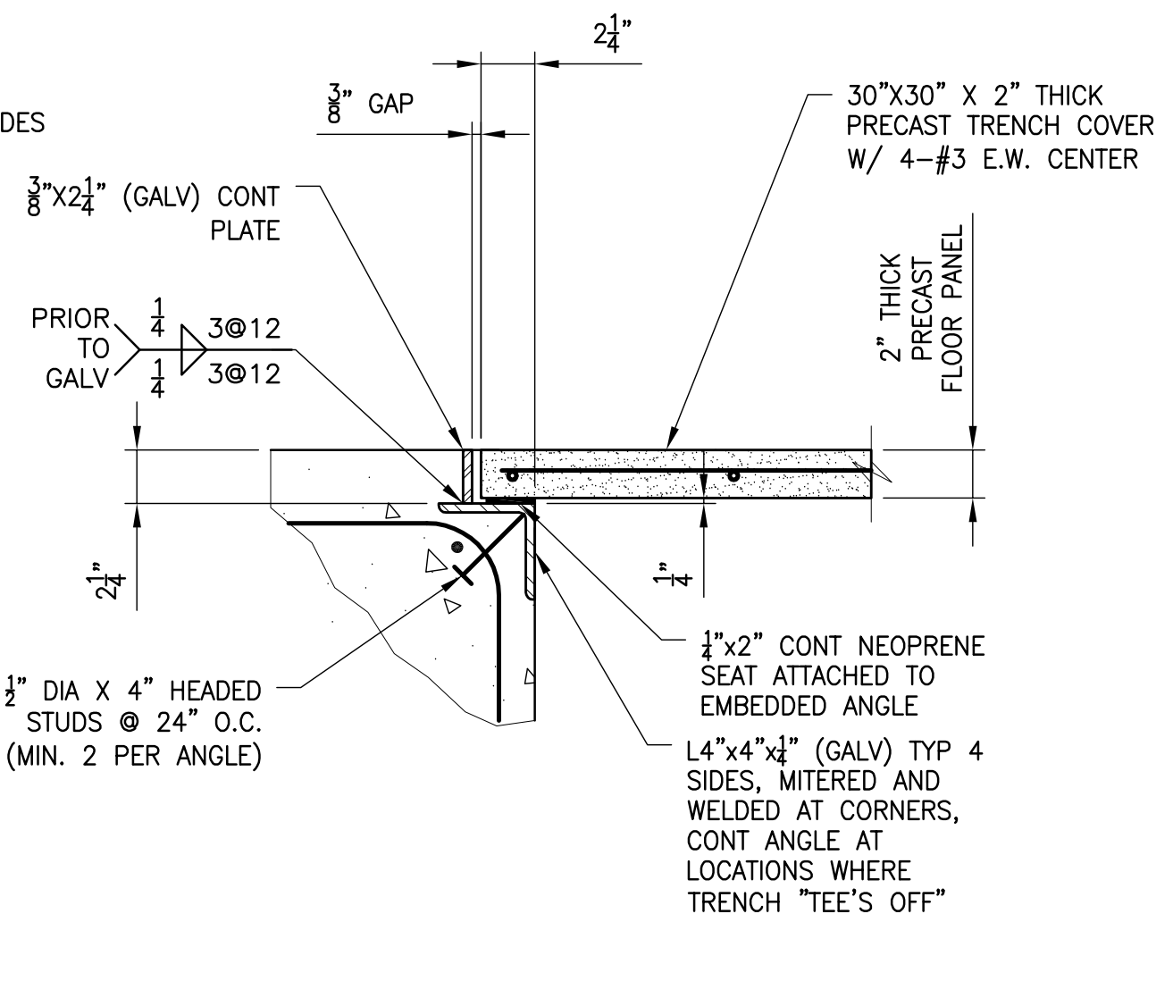
NOTES:
1. SEE PLAN AND 800 SERIES DRAWINGS FOR ADDITION INFO

12 SECTION
S-401 1/2"=1'-0"

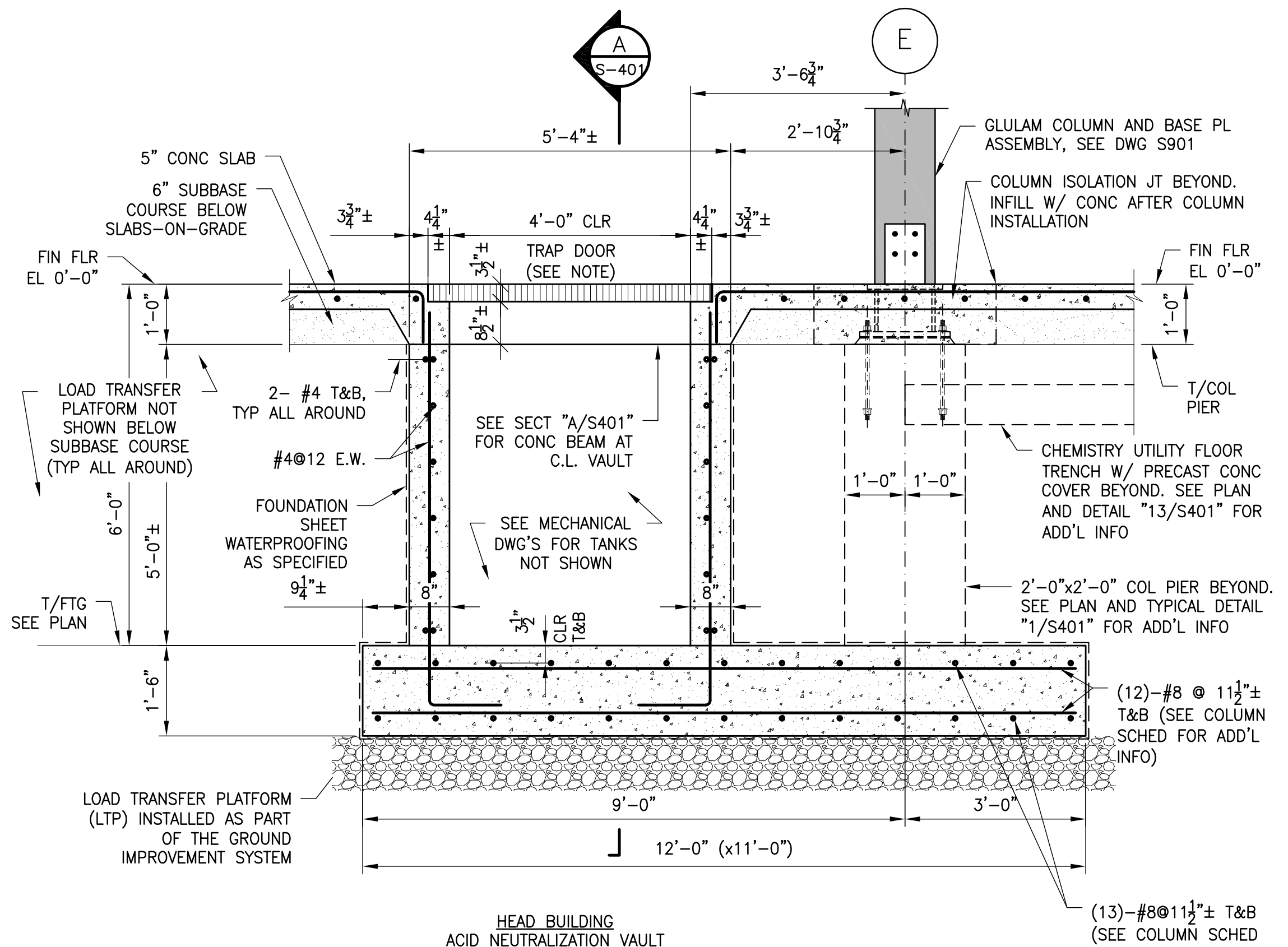

2'-6⅜"± CLR BETWEEN PLATES
⅛" GAP
2'-6⅞" COVER
SEE DETAIL "14/S-401" FOR EMBED INFO
30"x30" x 2" THICK PRECAST TRENCH COVER W/ 4-#3 E.W. CENTER, COORD W/ ARCH DWGS, SEE NOTE 1
½"x2" CONTINUOUS NEOPRENE STRIP
⅜"x2½" (GALV) CONT PLATE WELDED TO L4x4 W/ ¼", 3@12 FILLET WELDS EA SIDE OF PLATE
CONC SLAB, SEE PLAN AND TYPICAL DETAILS THIS SHEET
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
#4@12 SLAB DOWEL
COORD W/ TRADES INVOLVED
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
L4x4x¼ (GALV) CONT W/ ½"x4" EMBED STUDS @ 24" O.C. MAX
CONT WATERSTOP, TYP
#4@12 "U" BAR
4-#4 CONT
#4@12 TIE BAR
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
8"
2'-1½"±
8"
COORD W/ TRADES INVOLVED

NOTES:
1. PRECAST PANELS SHALL BE MADE W/ THE SAME CONCRETE MIX USED FOR THE SURROUNDING FLOOR SLABS. PANELS SHALL BE IN PLACE WHEN SURROUNDING FLOORS ARE BEING FINISHED. INTENT IS TO HAVE THE PRECAST PANELS MATCH THE SURROUNDING FLOOR SLAB FINISH.
2. PROVIDE 2 EMBEDED INSERTS WITH COVERS IN EA PANEL TO ALLOW FOR REMOVING PANELS.

13 UTILITY TRENCH AT CHEMISTRY ROOMS
S-401 1/2"=1'-0"


⅛" GAP
30"X30" X 2" THICK PRECAST TRENCH COVER W/ 4-#3 E.W. CENTER
⅜"x2½" (GALV) CONT PLATE
PRIOR TO GALV
3@12
2" THICK PRECAST FLOOR PANEL
2¼"
½"x2" CONT NEOPRENE SEAT ATTACHED TO EMBEDDED ANGLE
L4x4x¼" (GALV) TYP 4 SIDES, MITERED AND WELDED AT CORNERS, CONT ANGLE AT LOCATIONS WHERE TRENCH "TEE'S OFF"
½" DIA X 4" HEADED STUDS @ 24" O.C. (MIN. 2 PER ANGLE)

14 PRECAST PANEL DETAIL
S-401 1 1/2"=1'-0"


A S-401
E
3'-6¾"
2'-10¾"
5'-4"±
4'-0" CLR
TRAP DOOR (SEE NOTE)
GLULAM COLUMN AND BASE PL ASSEMBLY, SEE DWG S901
COLUMN ISOLATION JT BEYOND. INFILL W/ CONC AFTER COLUMN INSTALLATION
5" CONC SLAB
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
FIN FLR EL 0'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE (TYP ALL AROUND)
2- #4 T&B, TYP ALL AROUND
#4@12 E.W.
SEE SECT "A/S401" FOR CONC BEAM AT C.L. VAULT
T/COL PIER
CHEMISTRY UTILITY FLOOR TRENCH W/ PRECAST CONC COVER BEYOND. SEE PLAN AND DETAIL "13/S401" FOR ADD'L INFO
FOUNDATION SHEET WATERPROOFING AS SPECIFIED
SEE MECHANICAL DWG'S FOR TANKS NOT SHOWN
2'-0"x2'-0" COL PIER BEYOND. SEE PLAN AND TYPICAL DETAIL "1/S401" FOR ADD'L INFO
T/FTG SEE PLAN
(12)-#8 @ 11½"± T&B (SEE COLUMN SCHED FOR ADD'L INFO)
9'-0"
12'-0" (x11'-0")
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
(13)-#8@11½"± T&B (SEE COLUMN SCHED FOR ADD'L INFO)
HEAD BUILDING
ACID NEUTRALIZATION VAULT

B SECTION
S-401 1/2"=1'-0"

NOTES:
1. SEE SECTION "A/S401" FOR ADD'L INFORMATION.

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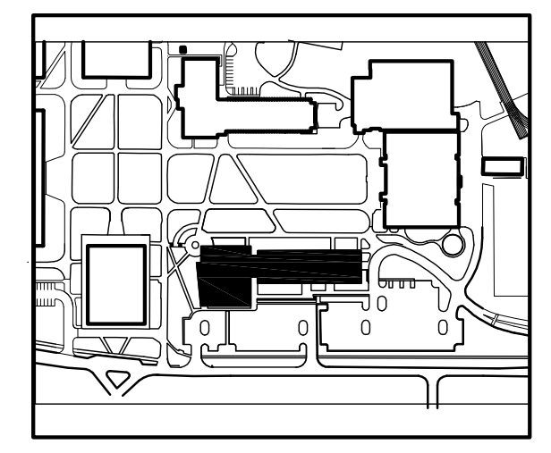
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



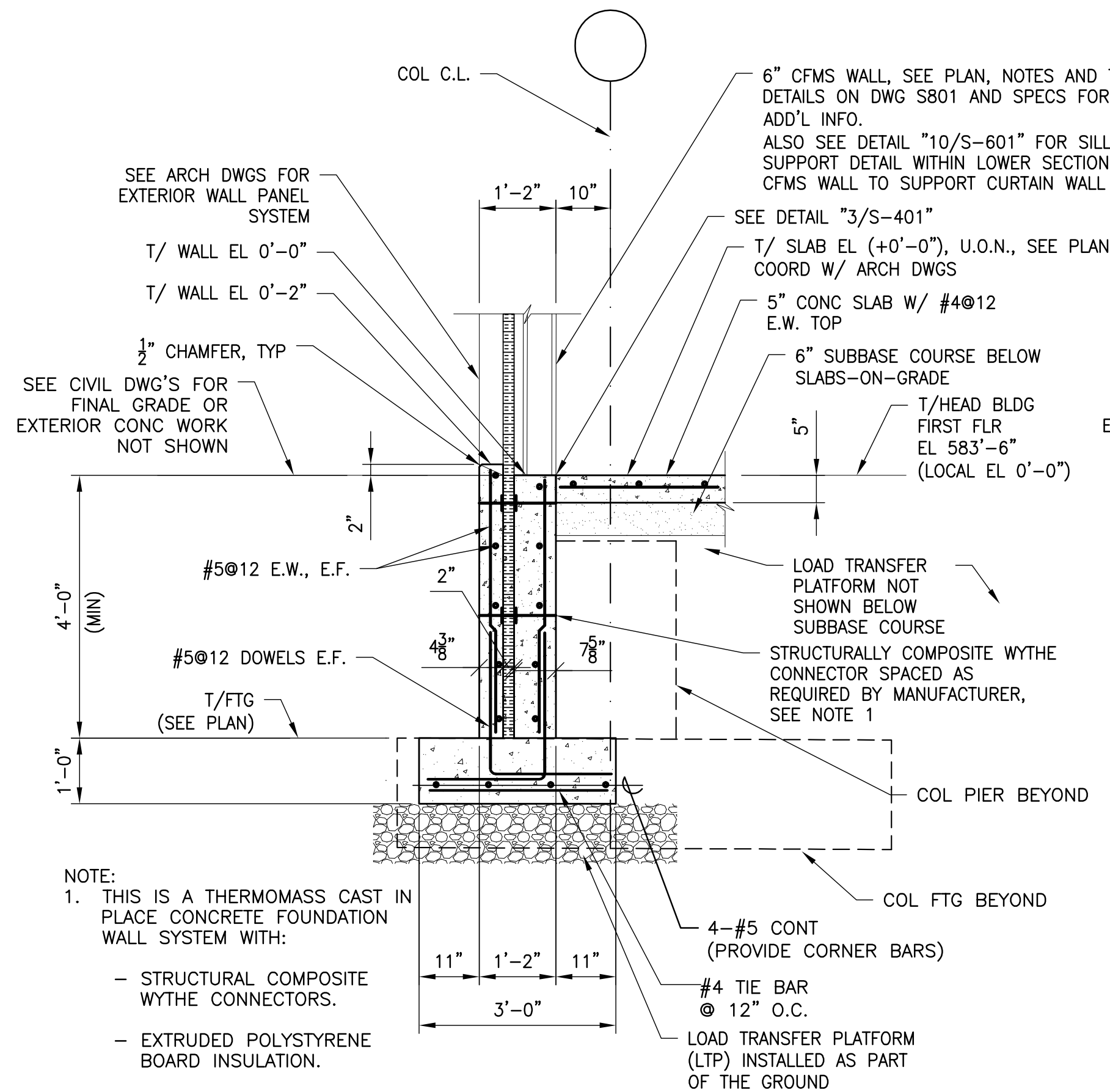
PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

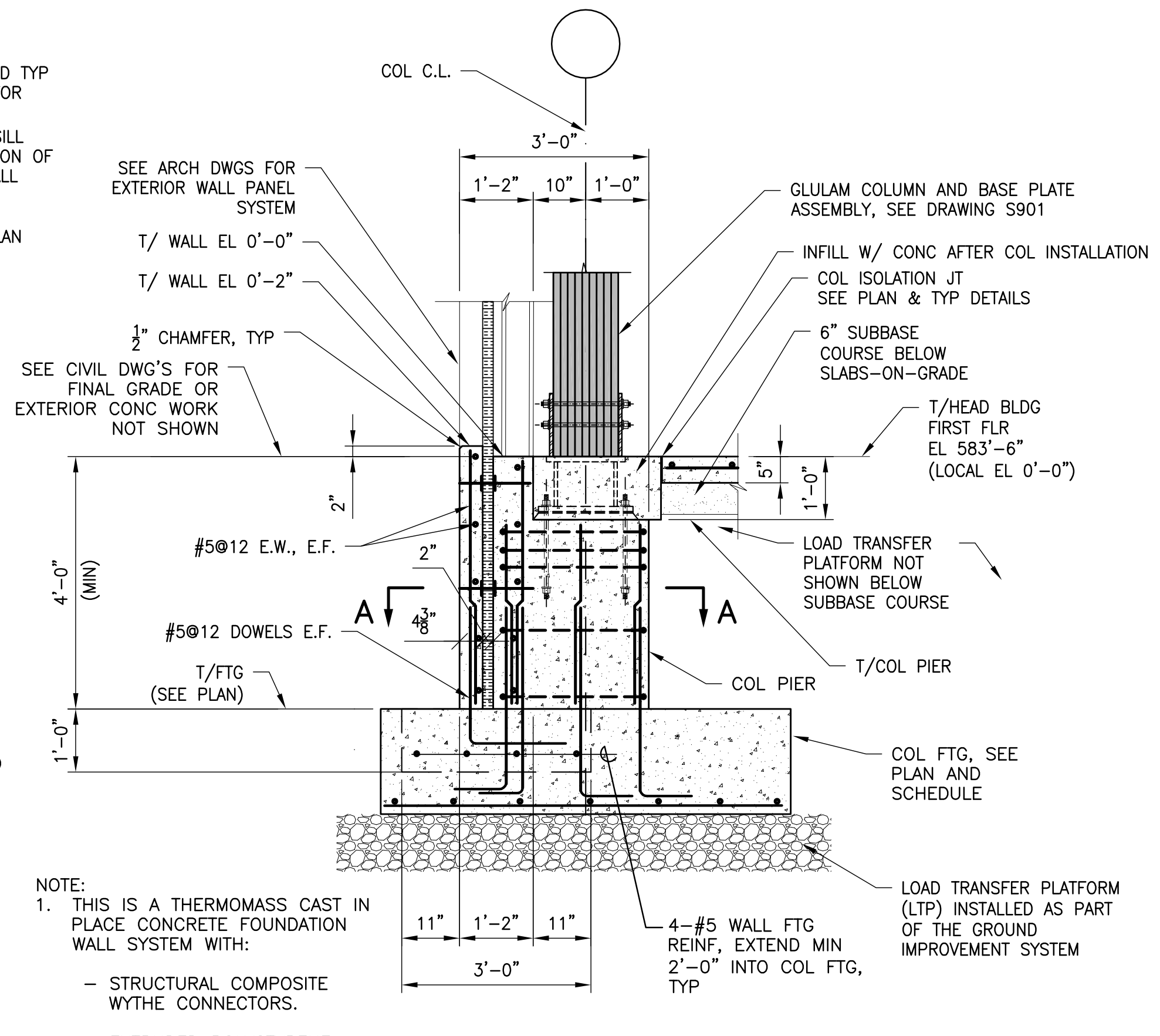
HEAD AND SHED BUILDINGS – TYPICAL FOUNDATION DETAILS AND NOTES

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED


COL C.L.
6" CFMS WALL, SEE PLAN, NOTES AND TYP DETAILS ON DWG S801 AND SPECS FOR ADD'L INFO.
ALSO SEE DETAIL "10/S-601" FOR SILL SUPPORT DETAIL WITHIN LOWER SECTION OF CFMS WALL TO SUPPORT CURTAIN WALL
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
SEE DETAIL "3/S-401"
T/ WALL EL 0'-0"
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
T/ WALL EL 0'-2"
5" CONC SLAB W/ #4@12 E.W. TOP
½" CHAMFER, TYP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE CIVIL DWG'S FOR FINAL GRADE OR EXTERIOR CONC WORK NOT SHOWN
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
1'-2"
10"
5"
2"
#5@12 E.W., E.F.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0" (MIN)
4⅜"
7⅝"
#5@12 DOWELS E.F.
STRUCTURALLY COMPOSITE WYTHE CONNECTOR SPACED AS REQUIRED BY MANUFACTURER, SEE NOTE 1
T/FTG (SEE PLAN)
1'-0"
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT (PROVIDE CORNER BARS)
11"
1'-2"
11"
3'-0"
#4 TIE BAR @ 12" O.C.
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

NOTE:
1. THIS IS A THERMOMASS CAST IN PLACE CONCRETE FOUNDATION WALL SYSTEM WITH:
   - STRUCTURAL COMPOSITE WYTHE CONNECTORS.
   - EXTRUDED POLYSTYRENE BOARD INSULATION.

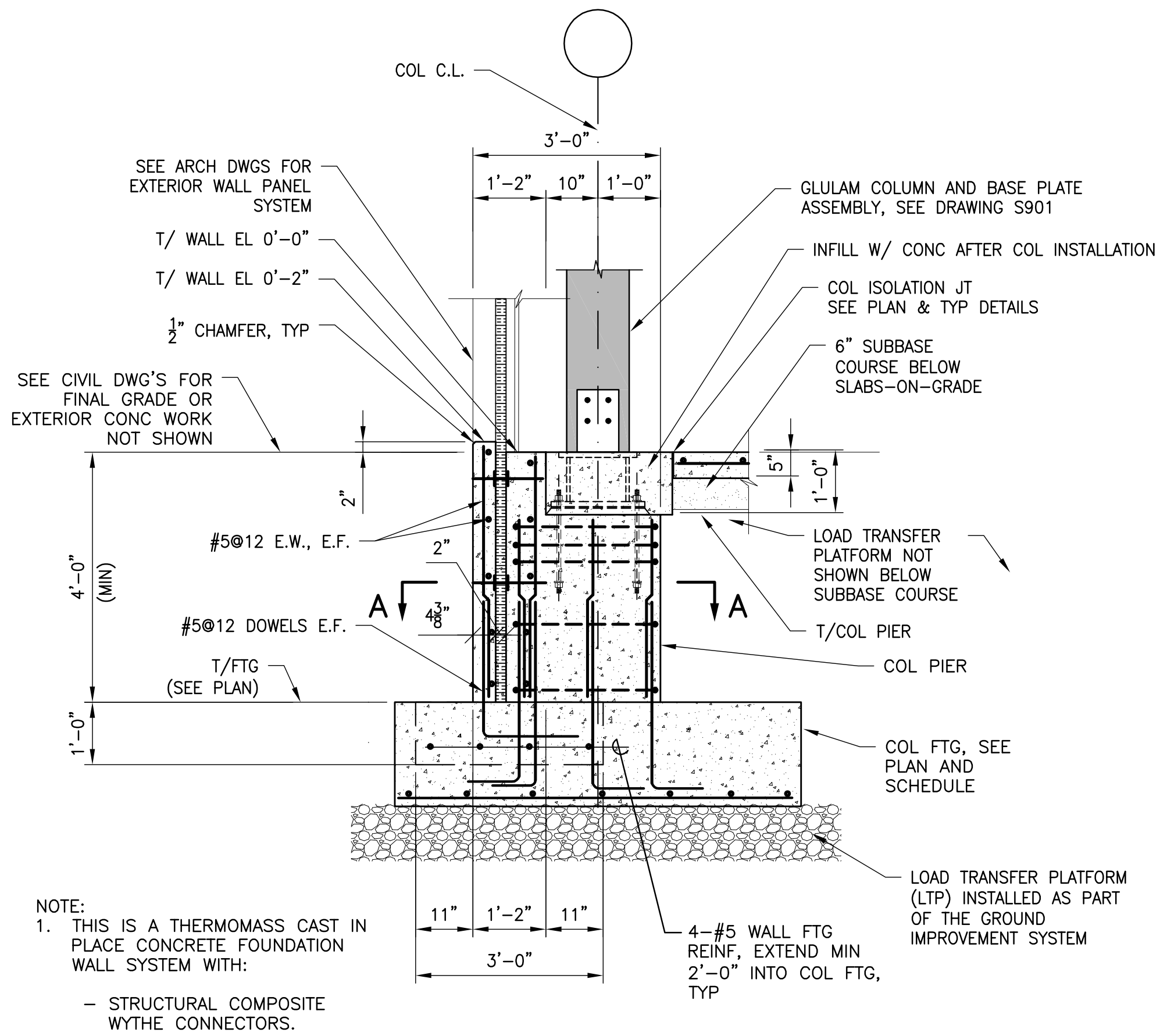
A SECTION
S-402 1/2"=1'-0"


COL C.L.
3'-0"
1'-2"
10"
1'-0"
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
GLULAM COLUMN AND BASE PLATE ASSEMBLY, SEE DRAWING S901
T/ WALL EL 0'-0"
INFILL W/ CONC AFTER COL INSTALLATION
T/ WALL EL 0'-2"
COL ISOLATION JT SEE PLAN & TYP DETAILS
½" CHAMFER, TYP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE CIVIL DWG'S FOR FINAL GRADE OR EXTERIOR CONC WORK NOT SHOWN
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
2"
5"
1'-0"
#5@12 E.W., E.F.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0" (MIN)
A
A
4⅜"
#5@12 DOWELS E.F.
T/COL PIER
COL PIER
T/FTG (SEE PLAN)
1'-0"
COL FTG, SEE PLAN AND SCHEDULE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
11"
1'-2"
11"
3'-0"
4-#5 WALL FTG REINF, EXTEND MIN 2'-0" INTO COL FTG, TYP

NOTE:
1. THIS IS A THERMOMASS CAST IN PLACE CONCRETE FOUNDATION WALL SYSTEM WITH:
   - STRUCTURAL COMPOSITE WYTHE CONNECTORS.
   - EXTRUDED POLYSTYRENE BOARD INSULATION.

B SECTION
S-402 1/2"=1'-0"

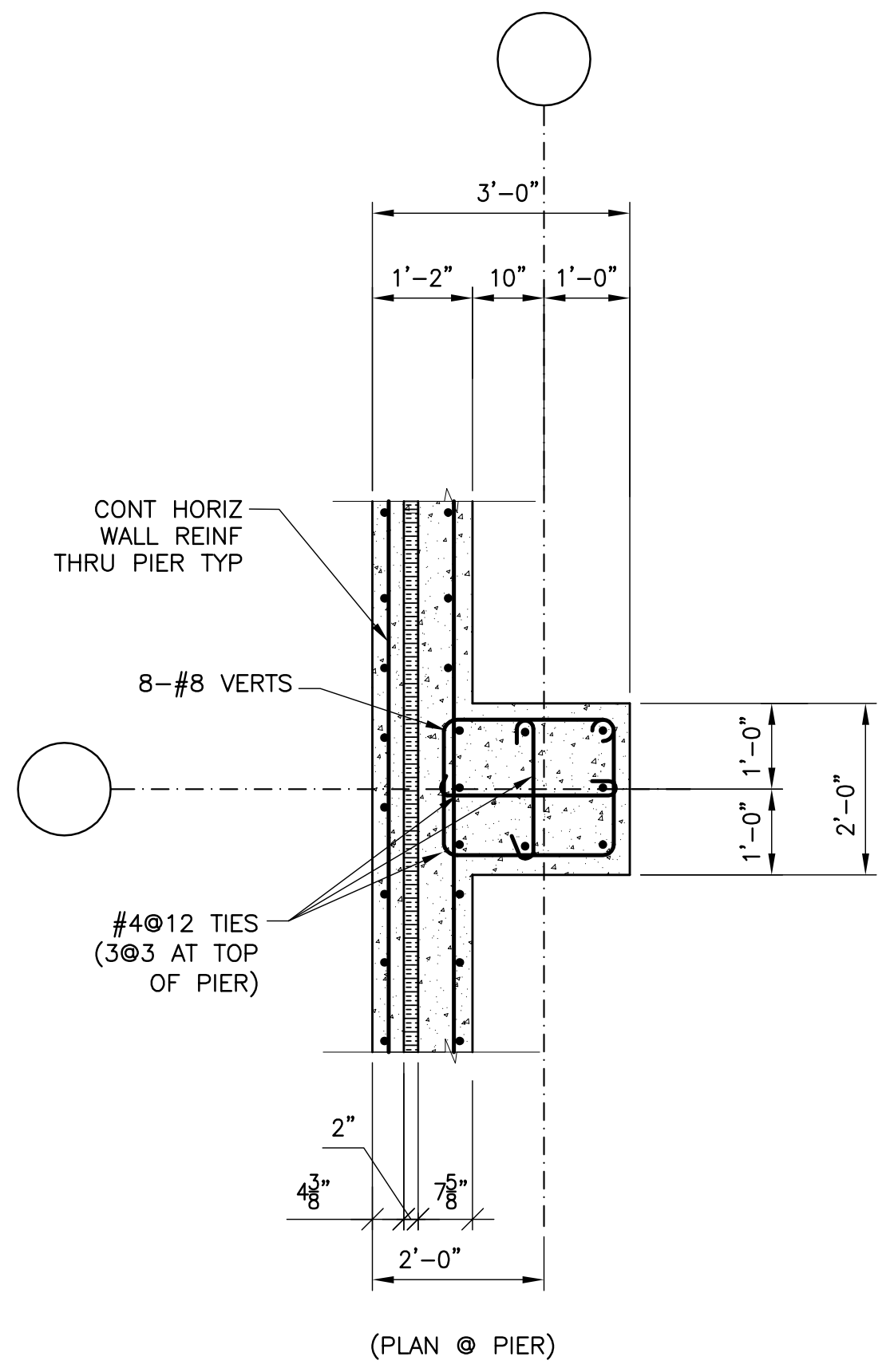
NOTE:
SEE SECT "A/S-402" FOR ADD'L INFO NOT SHOWN


COL C.L.
3'-0"
1'-2"
10"
1'-0"
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
GLULAM COLUMN AND BASE PLATE ASSEMBLY, SEE DRAWING S901
T/ WALL EL 0'-0"
INFILL W/ CONC AFTER COL INSTALLATION
T/ WALL EL 0'-2"
COL ISOLATION JT SEE PLAN & TYP DETAILS
½" CHAMFER, TYP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE CIVIL DWG'S FOR FINAL GRADE OR EXTERIOR CONC WORK NOT SHOWN
2"
5"
1'-0"
#5@12 E.W., E.F.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0" (MIN)
A
A
4⅜"
#5@12 DOWELS E.F.
T/COL PIER
COL PIER
T/FTG (SEE PLAN)
1'-0"
COL FTG, SEE PLAN AND SCHEDULE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
11"
1'-2"
11"
3'-0"
4-#5 WALL FTG REINF, EXTEND MIN 2'-0" INTO COL FTG, TYP

NOTE:
1. THIS IS A THERMOMASS CAST IN PLACE CONCRETE FOUNDATION WALL SYSTEM WITH:
   - STRUCTURAL COMPOSITE WYTHE CONNECTORS.
   - EXTRUDED POLYSTYRENE BOARD INSULATION.

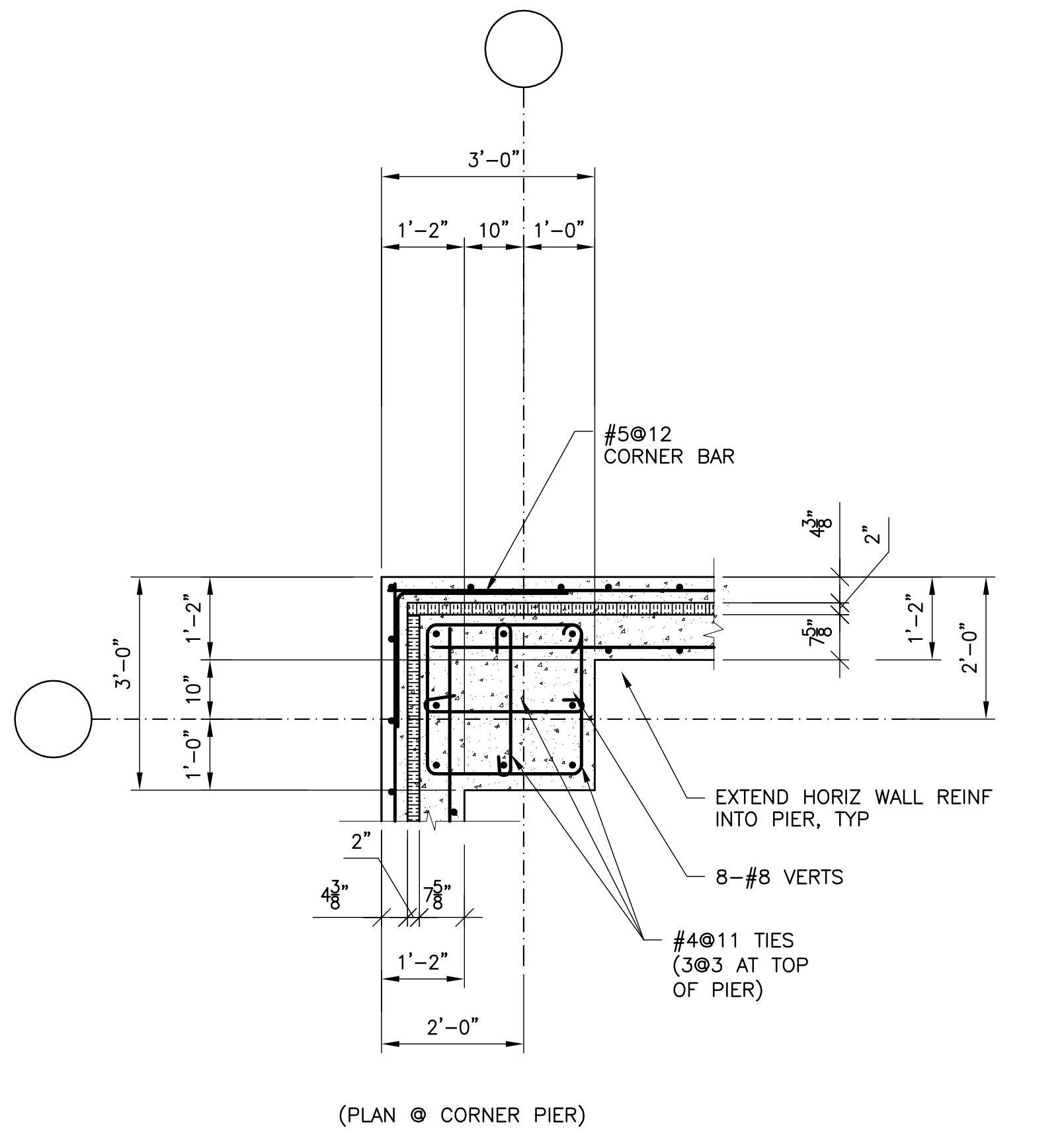
C SECTION
S-402 1/2"=1'-0"

NOTE:
SEE SECT "A/S-402" FOR ADD'L INFO NOT SHOWN


3'-0"
1'-2"
10"
1'-0"
CONT HORIZ WALL REINF THRU PIER TYP
8-#8 VERTS
1'-0"
1'-0"
2'-0"
#4@12 TIES (3@3 AT TOP OF PIER)
2"
4⅜"
7⅝"
2'-0"

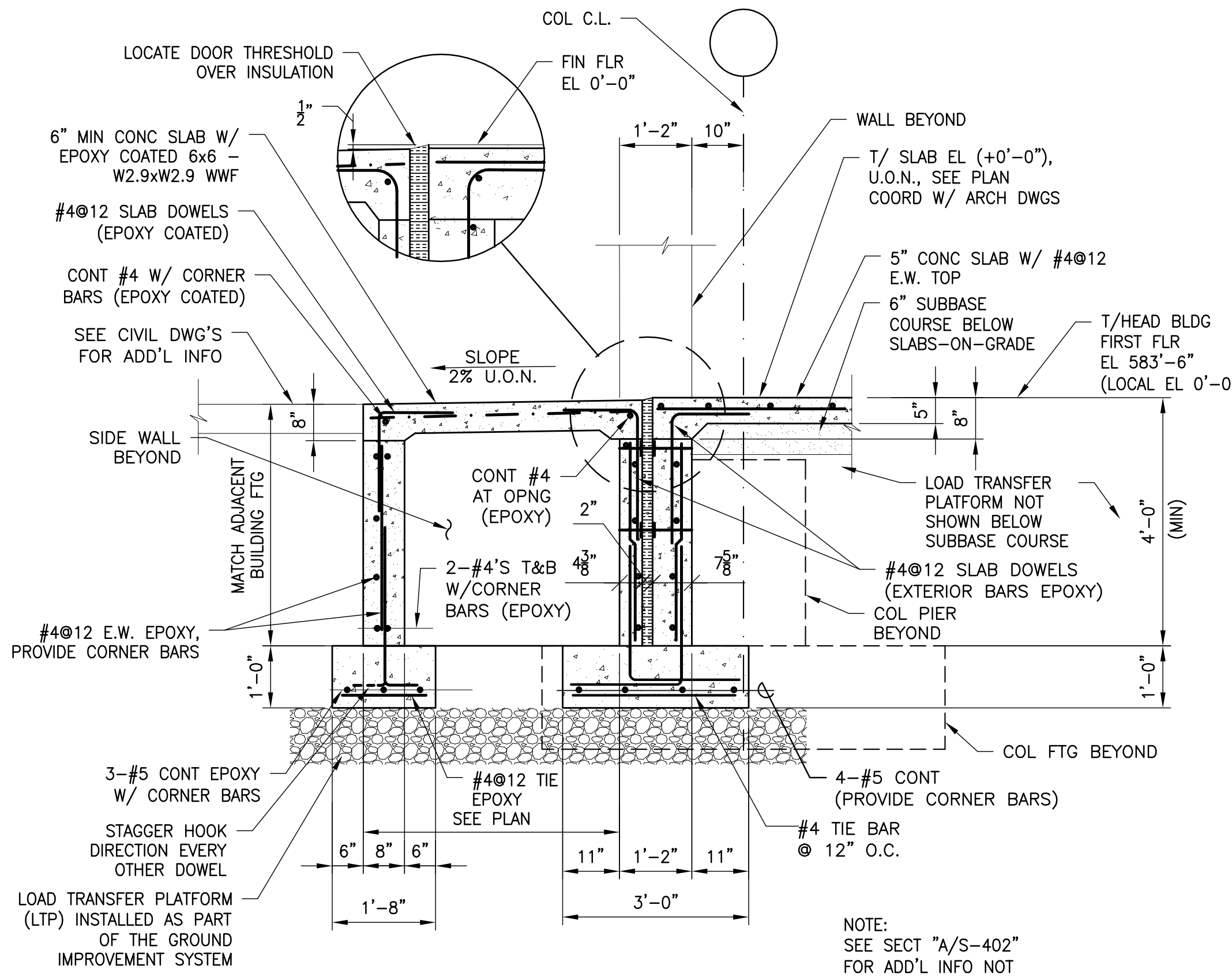
(PLAN @ PIER)

SECTION A–A


3'-0"
1'-2"
10"
1'-0"
#5@12 CORNER BAR
4⅜"
2"
7⅝"
1'-2"
2'-0"
3'-0"
1'-2"
10"
1'-0"
EXTEND HORIZ WALL REINF INTO PIER, TYP
8-#8 VERTS
2"
4⅜"
7⅝"
1'-2"
2'-0"
#4@11 TIES (3@3 AT TOP OF PIER)

(PLAN @ CORNER PIER)

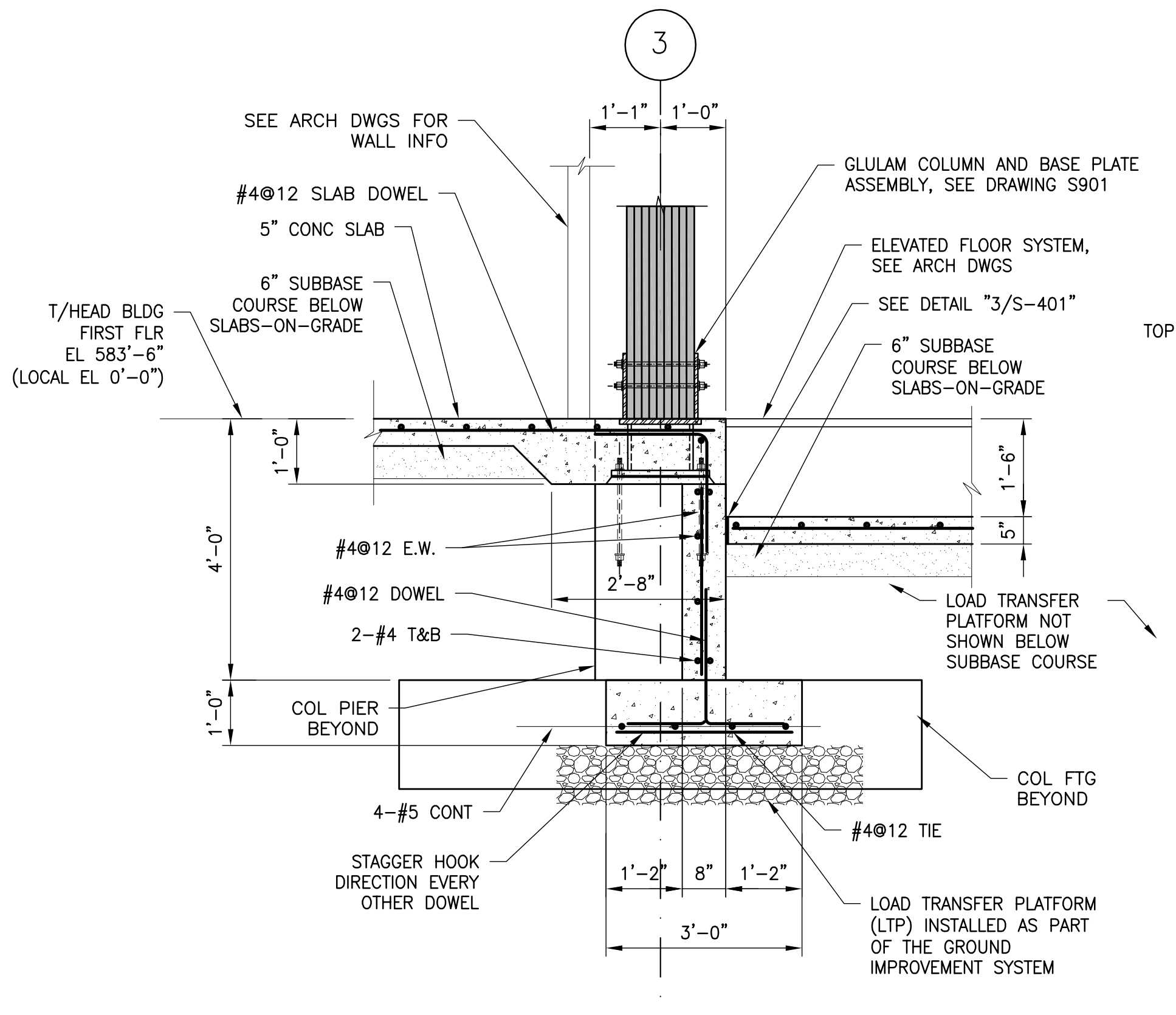
SECTION A–A


COL C.L.
LOCATE DOOR THRESHOLD OVER INSULATION
FIN FLR EL 0'-0"
½"
6" MIN CONC SLAB W/ EPOXY COATED 6x6 – W2.9xW2.9 WWF
WALL BEYOND
1'-2"
10"
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
#4@12 SLAB DOWELS (EPOXY COATED)
CONT #4 W/ CORNER BARS (EPOXY COATED)
5" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE CIVIL DWG'S FOR ADD'L INFO
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
SLOPE 2% U.O.N.
8"
5"
8"
SIDE WALL BEYOND
MATCH ADJACENT BUILDING FTG
CONT #4 AT OPNG (EPOXY)
2"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0" (MIN)
2-#4'S T&B W/CORNER BARS (EPOXY)
4⅜"
7⅝"
#4@12 SLAB DOWELS (EXTERIOR BARS EPOXY)
COL PIER BEYOND
#4@12 E.W. EPOXY, PROVIDE CORNER BARS
1'-0"
1'-0"
COL FTG BEYOND
3-#5 CONT EPOXY W/ CORNER BARS
#4@12 TIE EPOXY SEE PLAN
4-#5 CONT (PROVIDE CORNER BARS)
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
6"
8"
6"
11"
1'-2"
11"
#4 TIE BAR @ 12" O.C.
1'-8"
3'-0"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

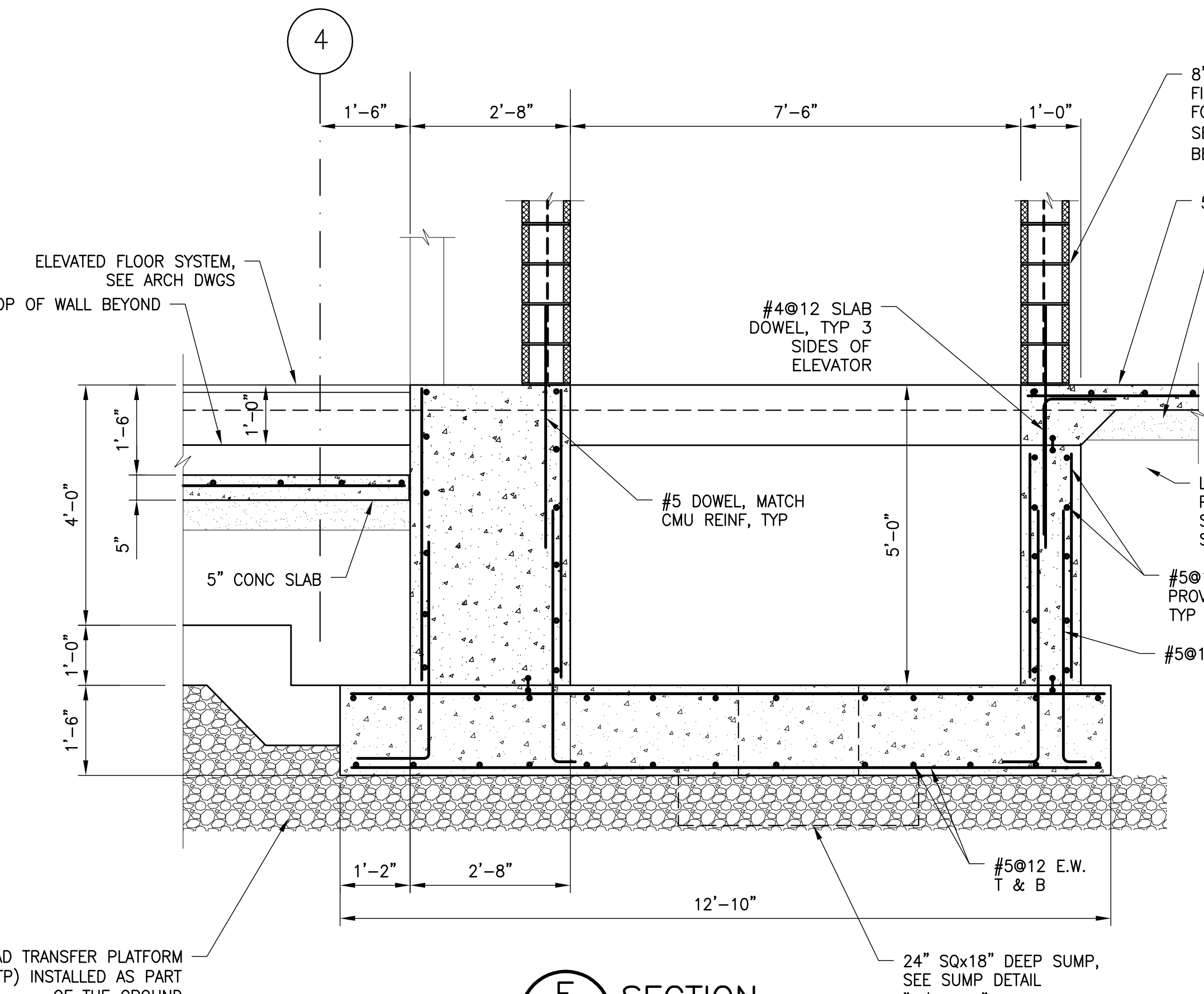
NOTE:
SEE SECT "A/S-402" FOR ADD'L INFO NOT SHOWN

NOTE:
PROVIDE INTERSECTION BARS AT SIDE WALLS THAT ABUT MAIN FOUNDATION WALLS, TYP.

D SECTION
S-402 1/2"=1'-0"

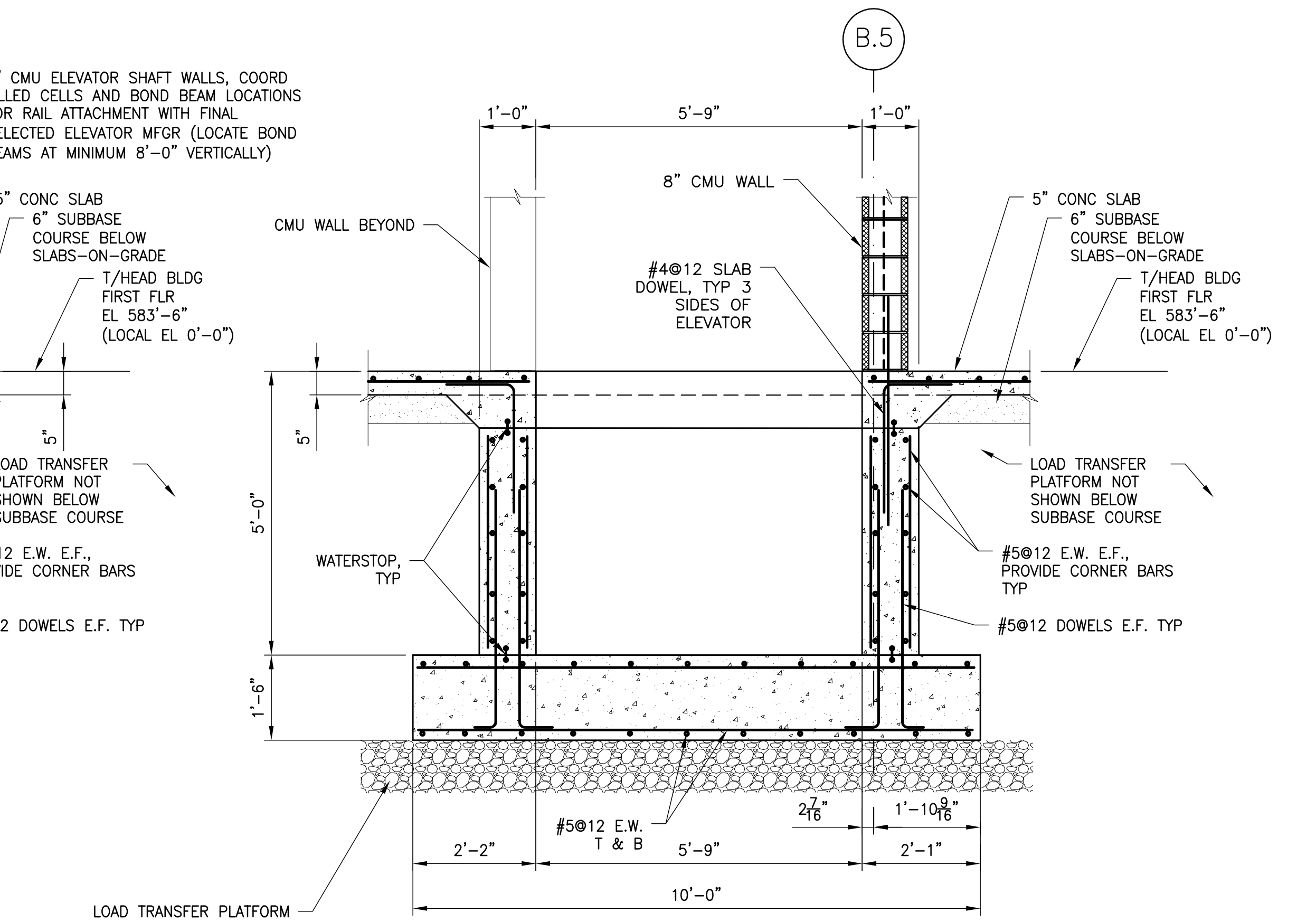

3
1'-1"
1'-0"
SEE ARCH DWGS FOR WALL INFO
GLULAM COLUMN AND BASE PLATE ASSEMBLY, SEE DRAWING S901
#4@12 SLAB DOWEL
5" CONC SLAB
ELEVATED FLOOR SYSTEM, SEE ARCH DWGS
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE DETAIL "3/S-401"
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
1'-0"
1'-6"
5"
4'-0"
#4@12 E.W.
2'-8"
#4@12 DOWEL
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
2-#4 T&B
1'-0"
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT
#4@12 TIE
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
1'-2"
8"
1'-2"
3'-0"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

E SECTION
S-402 1/2"=1'-0"


4
1'-6"
2'-8"
7'-6"
1'-0"
8" CMU ELEVATOR SHAFT WALLS, COORD FILLED CELLS AND BOND BEAM LOCATIONS FOR RAIL ATTACHMENT WITH FINAL SELECTED ELEVATOR MFGR (LOCATE BOND BEAMS AT MINIMUM 8'-0" VERTICALLY)
5" CONC SLAB
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
ELEVATED FLOOR SYSTEM, SEE ARCH DWGS
TOP OF WALL BEYOND
#4@12 SLAB DOWEL, TYP 3 SIDES OF ELEVATOR
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
1'-0"
1'-6"
5"
4'-0"
5"
#5 DOWEL, MATCH CMU REINF, TYP
5'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
5" CONC SLAB
#5@12 E.W. E.F., PROVIDE CORNER BARS TYP
1'-0"
#5@12 DOWELS E.F. TYP
1'-6"
1'-2"
2'-8"
#5@12 E.W. T & B
12'-10"
24" SQx18" DEEP SUMP, SEE SUMP DETAIL "1/S-402"

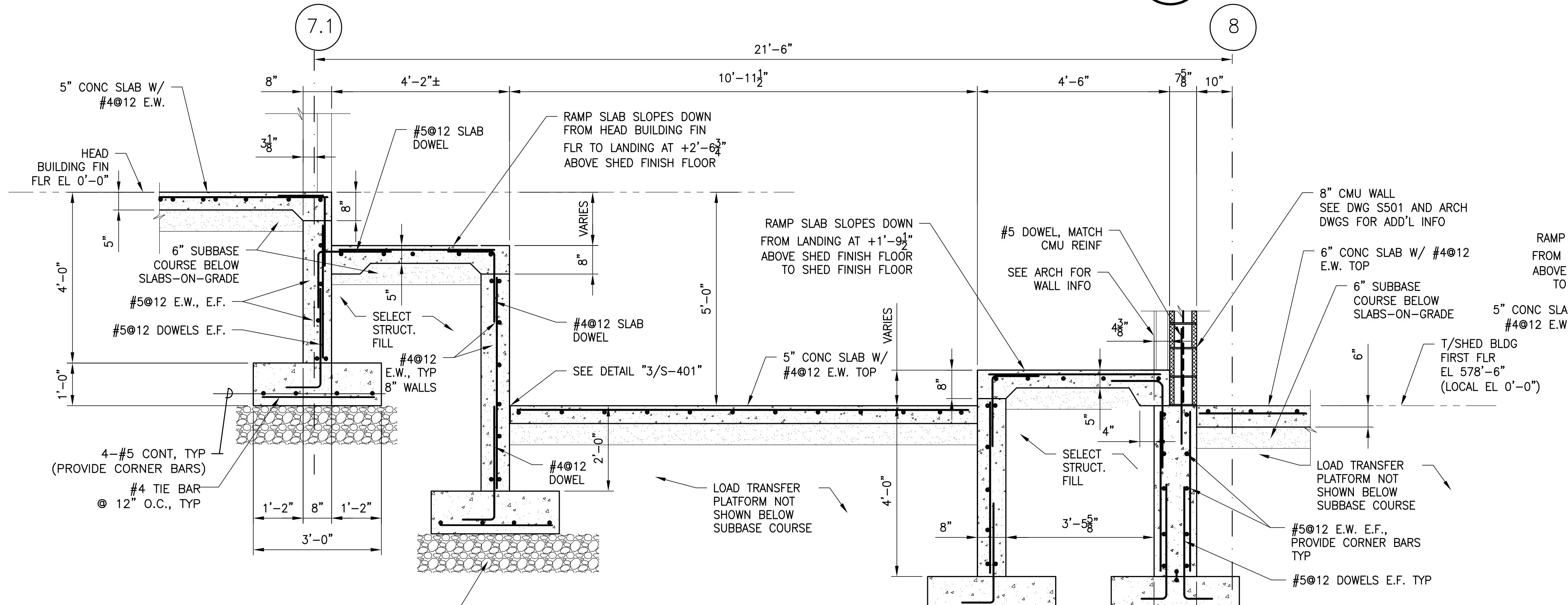
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

F SECTION
S-402 1/2"=1'-0"

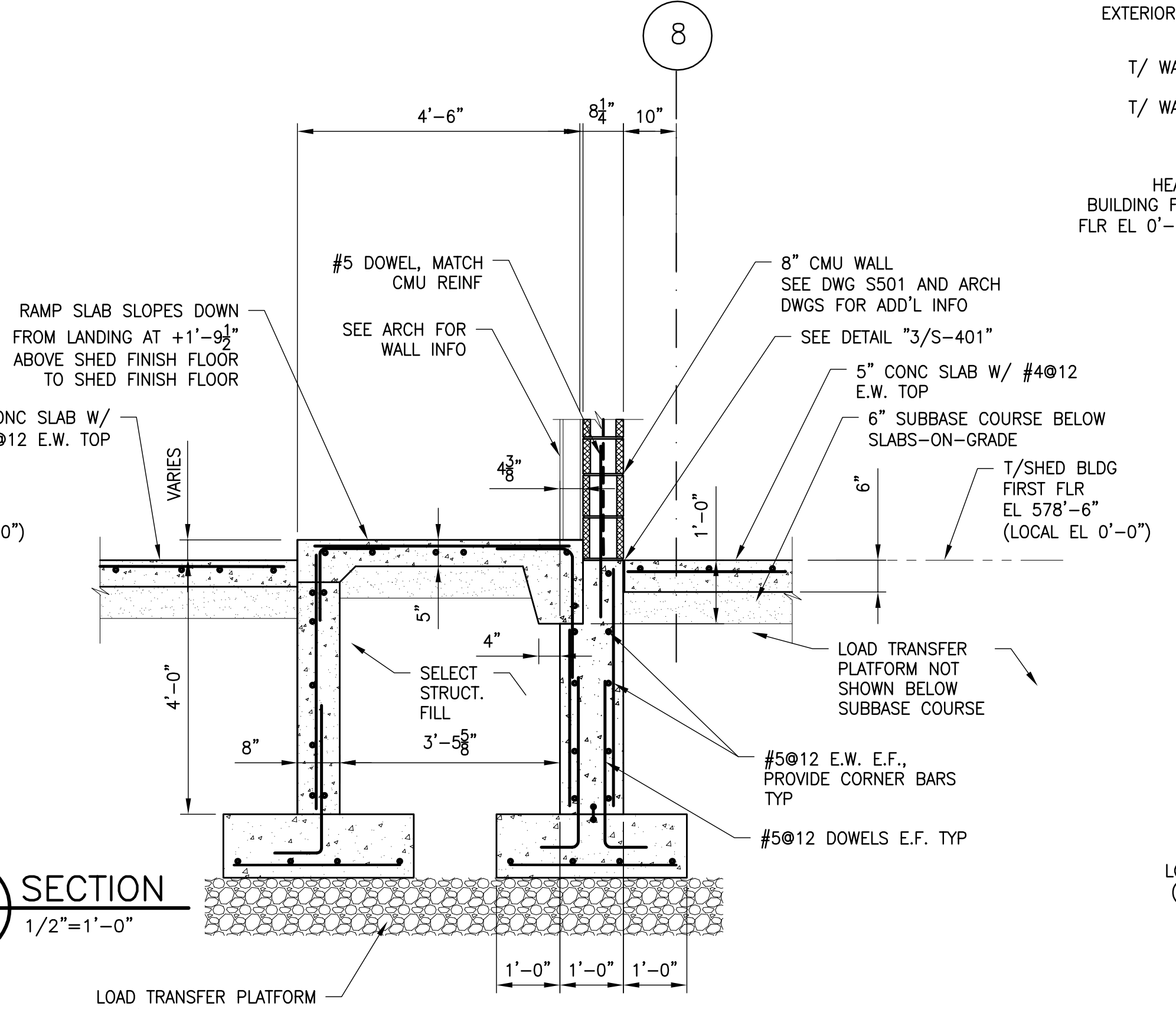

B.5
1'-0"
5'-9"
1'-0"
8" CMU WALL
CMU WALL BEYOND
5" CONC SLAB
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
#4@12 SLAB DOWEL, TYP 3 SIDES OF ELEVATOR
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
5"
5'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
WATERSTOP, TYP
#5@12 E.W. E.F., PROVIDE CORNER BARS TYP
#5@12 DOWELS E.F. TYP
1'-6"
2 7/16"
1'-10 9/16"
#5@12 E.W. T & B
2'-2"
5'-9"
2'-1"
10'-0"

LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

F1 SECTION
S-402 1/2"=1'-0"

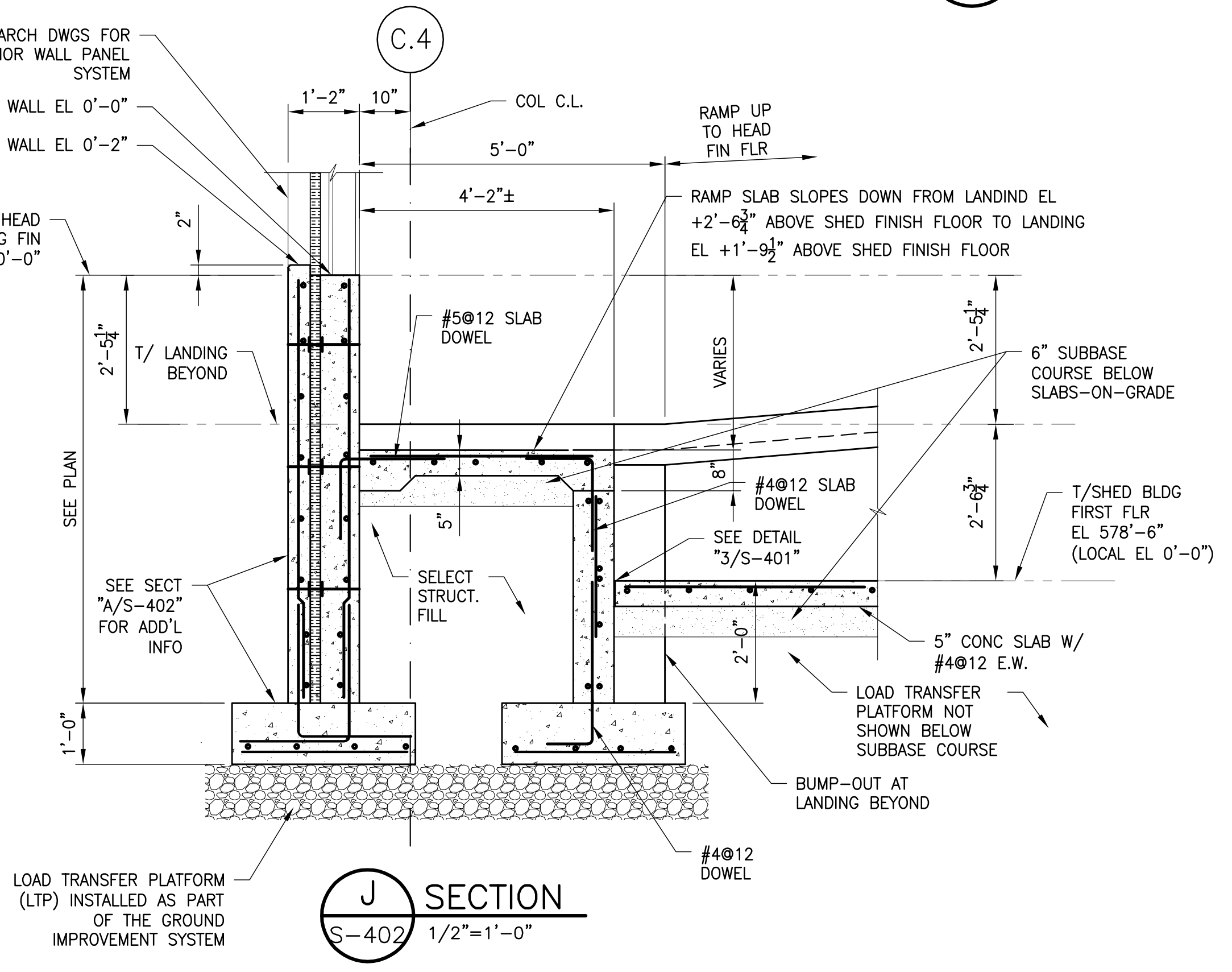

7.1
8
21'-6"
8"
4'-2"±
10'-11½"
4'-6"
7⅝"
10"
5" CONC SLAB W/ #4@12 E.W.
3⅛"
#5@12 SLAB DOWEL
RAMP SLAB SLOPES DOWN FROM HEAD BUILDING FIN FLR TO LANDING AT +2'-6¾" ABOVE SHED FINISH FLOOR
HEAD BUILDING FIN FLR EL 0'-0"
8"
VARIES
8"
5"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
4'-0"
5'-0"
#5@12 E.W., E.F.
SELECT STRUCT. FILL
#4@12 SLAB DOWEL
#5@12 DOWELS E.F.
#4@12 E.W., TYP 8" WALLS
RAMP SLAB SLOPES DOWN FROM LANDING AT +1'-9½" ABOVE SHED FINISH FLOOR TO SHED FINISH FLOOR
#5 DOWEL, MATCH CMU REINF
SEE ARCH FOR WALL INFO
8" CMU WALL SEE DWG S501 AND ARCH DWGS FOR ADD'L INFO
6" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE DETAIL "3/S-401"
5" CONC SLAB W/ #4@12 E.W. TOP
VARIES
4⅜"
6"
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
1'-0"
8"
5"
4"
2'-0"
#4@12 DOWEL
SELECT STRUCT. FILL
4'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4-#5 CONT, TYP (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C., TYP
1'-2"
8"
1'-2"
3'-0"
8"
3'-5⅝"
#5@12 E.W. E.F., PROVIDE CORNER BARS TYP
#5@12 DOWELS E.F. TYP
1'-0"
1'-0"
1'-0"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

G SECTION
S-402 1/2"=1'-0"


8
4'-6"
8¼"
10"
#5 DOWEL, MATCH CMU REINF
8" CMU WALL SEE DWG S501 AND ARCH DWGS FOR ADD'L INFO
RAMP SLAB SLOPES DOWN FROM LANDING AT +1'-9½" ABOVE SHED FINISH FLOOR TO SHED FINISH FLOOR
SEE ARCH FOR WALL INFO
SEE DETAIL "3/S-401"
5" CONC SLAB W/ #4@12 E.W. TOP
5" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
VARIES
4⅜"
1'-0"
6"
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
5"
4"
SELECT STRUCT. FILL
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0"
8"
3'-5⅝"
#5@12 E.W. E.F., PROVIDE CORNER BARS TYP
#5@12 DOWELS E.F. TYP
1'-0"
1'-0"
1'-0"

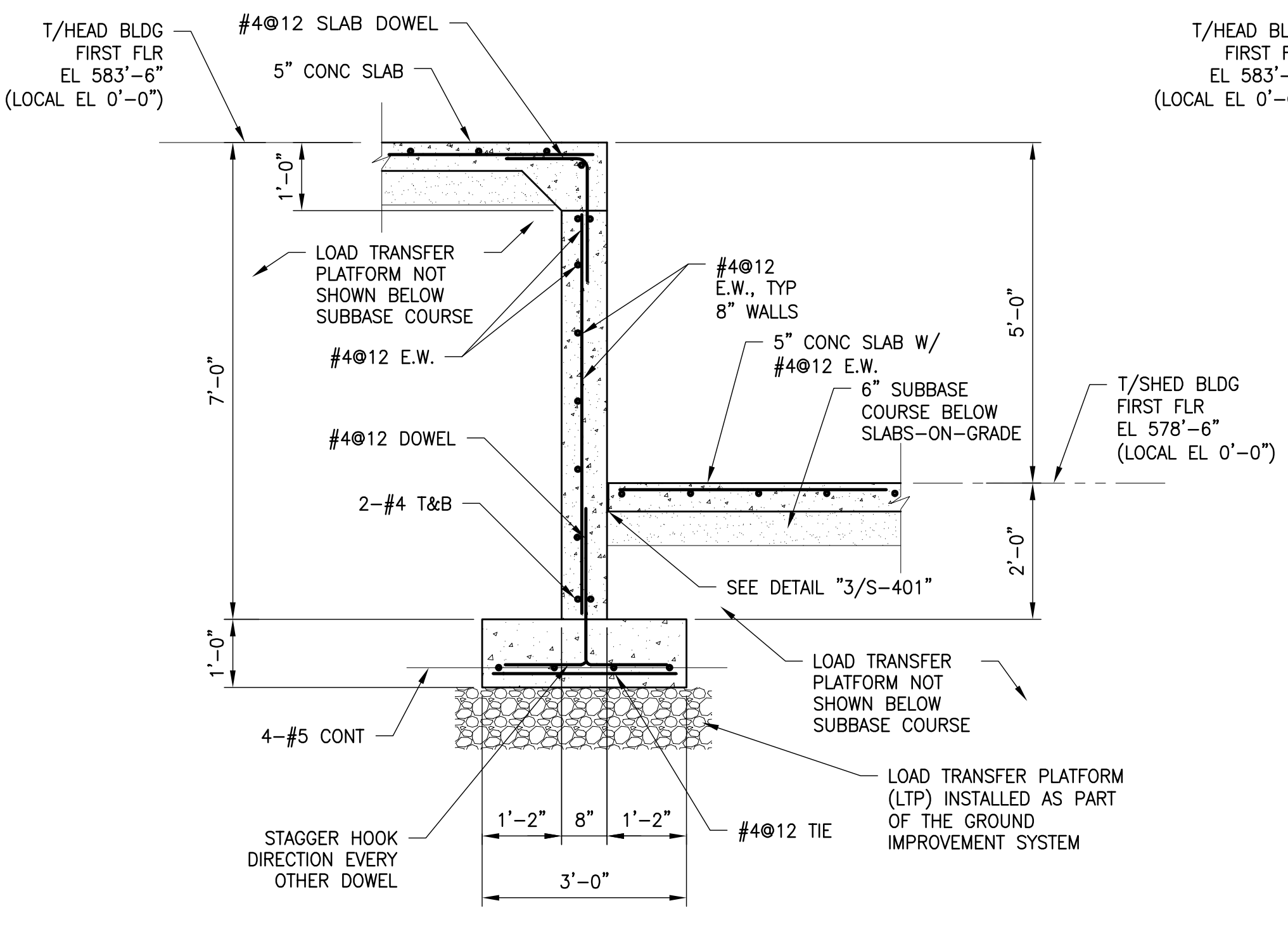
H SECTION
S-402 1/2"=1'-0"

LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

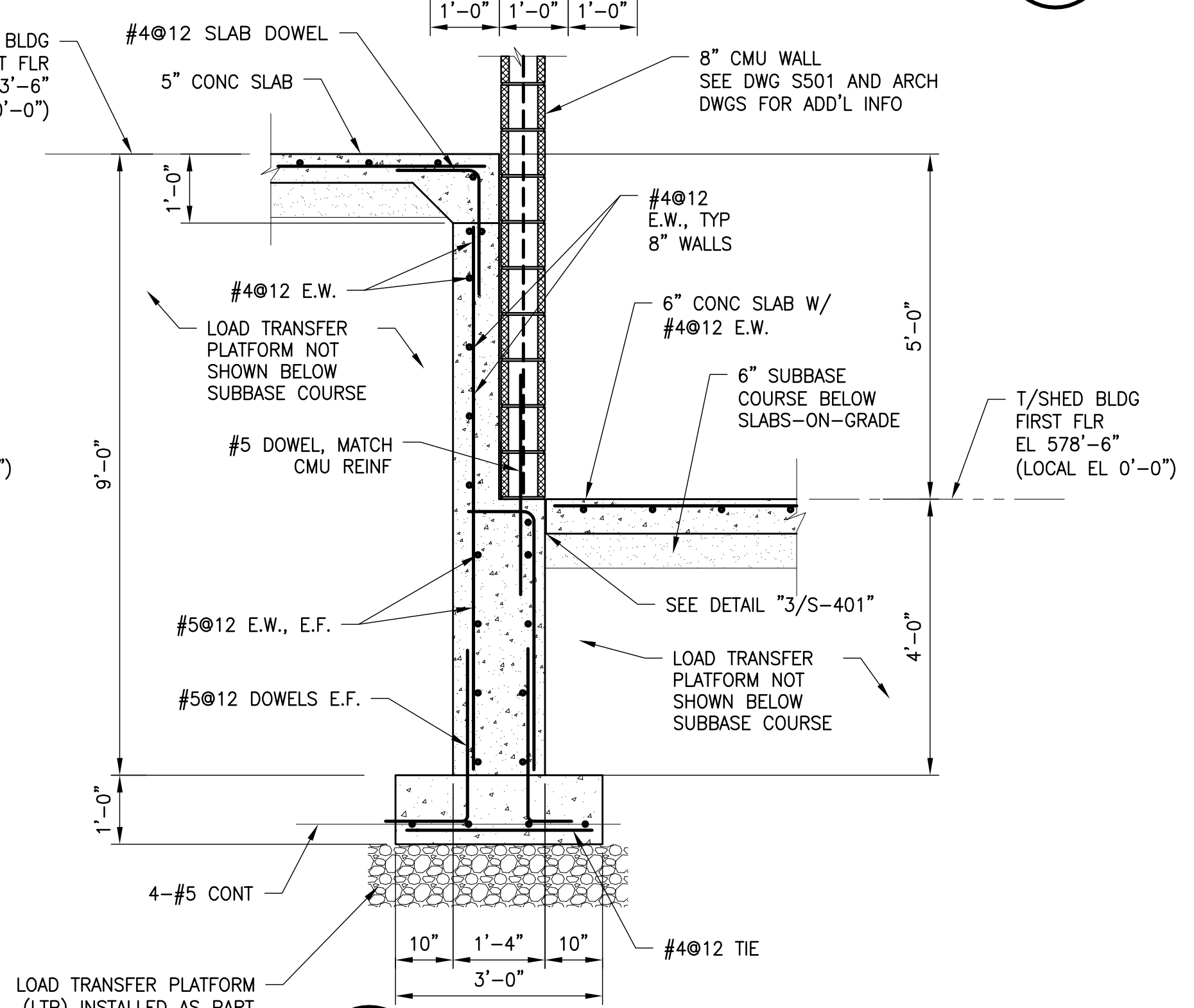

C.4
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
1'-2"
10"
COL C.L.
T/ WALL EL 0'-0"
T/ WALL EL 0'-2"
5'-0"
RAMP UP TO HEAD FIN FLR
4'-2"±
RAMP SLAB SLOPES DOWN FROM LANDIND EL +2'-6¾" ABOVE SHED FINISH FLOOR TO LANDING EL +1'-9½" ABOVE SHED FINISH FLOOR
HEAD BUILDING FIN FLR EL 0'-0"
2"
2'-5¼"
T/ LANDING BEYOND
#5@12 SLAB DOWEL
VARIES
2'-5¼"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
SEE PLAN
8"
#4@12 SLAB DOWEL
2'-6¾"
5"
SEE DETAIL "3/S-401"
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
SEE SECT "A/S-402" FOR ADD'L INFO
SELECT STRUCT. FILL
2'-0"
5" CONC SLAB W/ #4@12 E.W.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
1'-0"
BUMP-OUT AT LANDING BEYOND
#4@12 DOWEL

LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

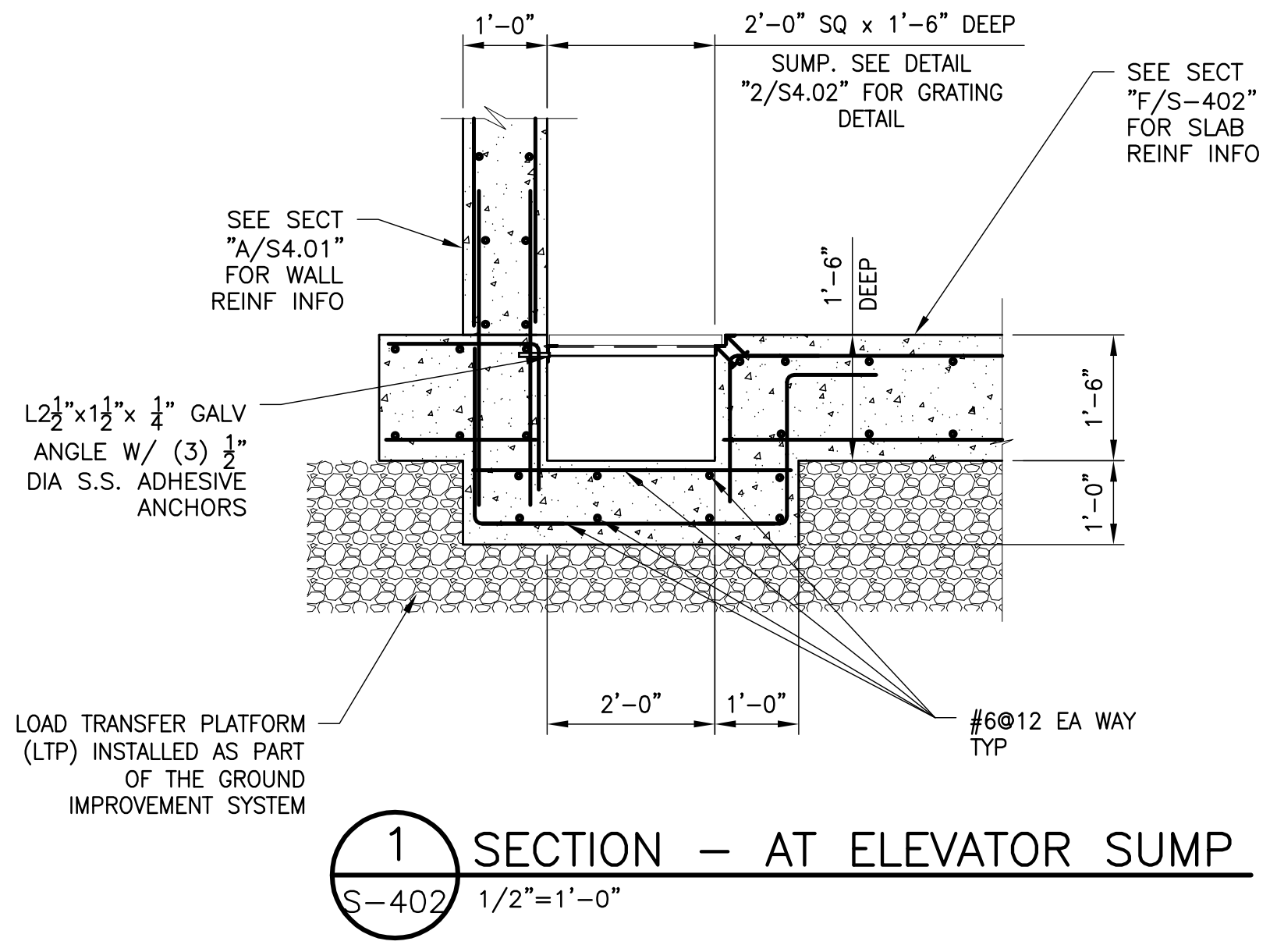
J SECTION
S-402 1/2"=1'-0"


T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
#4@12 SLAB DOWEL
5" CONC SLAB
1'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
#4@12 E.W., TYP 8" WALLS
#4@12 E.W.
5" CONC SLAB W/ #4@12 E.W.
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
5'-0"
7'-0"
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
#4@12 DOWEL
2-#4 T&B
2'-0"
SEE DETAIL "3/S-401"
1'-0"
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4-#5 CONT
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
1'-2"
8"
1'-2"
#4@12 TIE
3'-0"

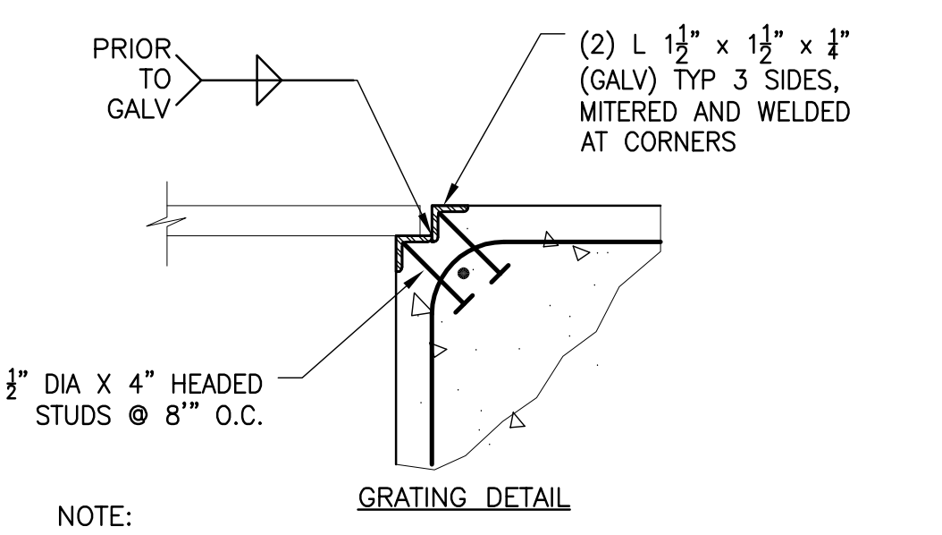
K SECTION
S-402 1/2"=1'-0"


T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
#4@12 SLAB DOWEL
5" CONC SLAB
8" CMU WALL SEE DWG S501 AND ARCH DWGS FOR ADD'L INFO
1'-0"
#4@12 E.W., TYP 8" WALLS
#4@12 E.W.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
6" CONC SLAB W/ #4@12 E.W.
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
5'-0"
9'-0"
#5 DOWEL, MATCH CMU REINF
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
SEE DETAIL "3/S-401"
#5@12 E.W., E.F.
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
4'-0"
#5@12 DOWELS E.F.
1'-0"
4-#5 CONT
10"
1'-4"
10"
#4@12 TIE
3'-0"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

L SECTION
S-402 1/2"=1'-0"


1'-0"
2'-0" SQ x 1'-6" DEEP SUMP. SEE DETAIL "2/S4.02" FOR GRATING DETAIL
SEE SECT "F/S-402" FOR SLAB REINF INFO
SEE SECT "A/S4.01" FOR WALL REINF INFO
1'-6" DEEP
L2½"x1½"x ¼" GALV ANGLE W/ (3) ½" DIA S.S. ADHESIVE ANCHORS
1'-6"
1'-0"
2'-0"
1'-0"
#6@12 EA WAY TYP
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM

1 SECTION – AT ELEVATOR SUMP
S-402 1/2"=1'-0"


PRIOR TO GALV
(2) L 1½" x 1½" x ¼" (GALV) TYP 3 SIDES, MITERED AND WELDED AT CORNERS
½" DIA X 4" HEADED STUDS @ 8'" O.C.

GRATING DETAIL

NOTE:
STEEL GRATING TO BE WELDED RECTANGULAR DESIGN, WITH 1¼"x3/16" MAIN BEARING BARS @ 1 3/16" CENTER TO CENTER WITH CROSS BARS TO BE RESISTANCE WELDED AT RIGHT ANGLES TO THE MAIN BEARING BARS SPACED @ 4" CENTER TO CENTER. FINISH TO BE GALVANIZED.

2 ELEVATOR SUMP GRATING DETAIL
S-402 1 1/2"=1'-0"

ONEIDA COUNTY NEW YORK 1798

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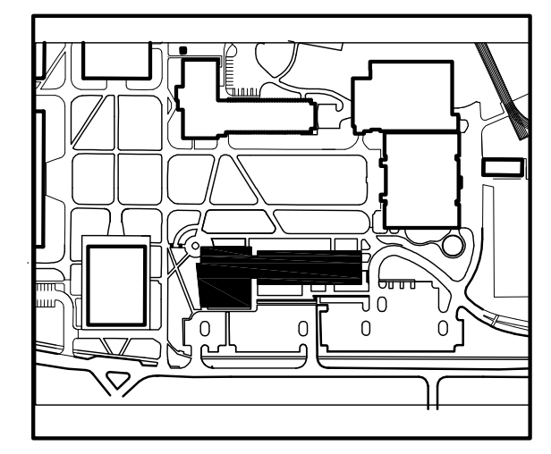
Douglas R. Cahill, PE
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

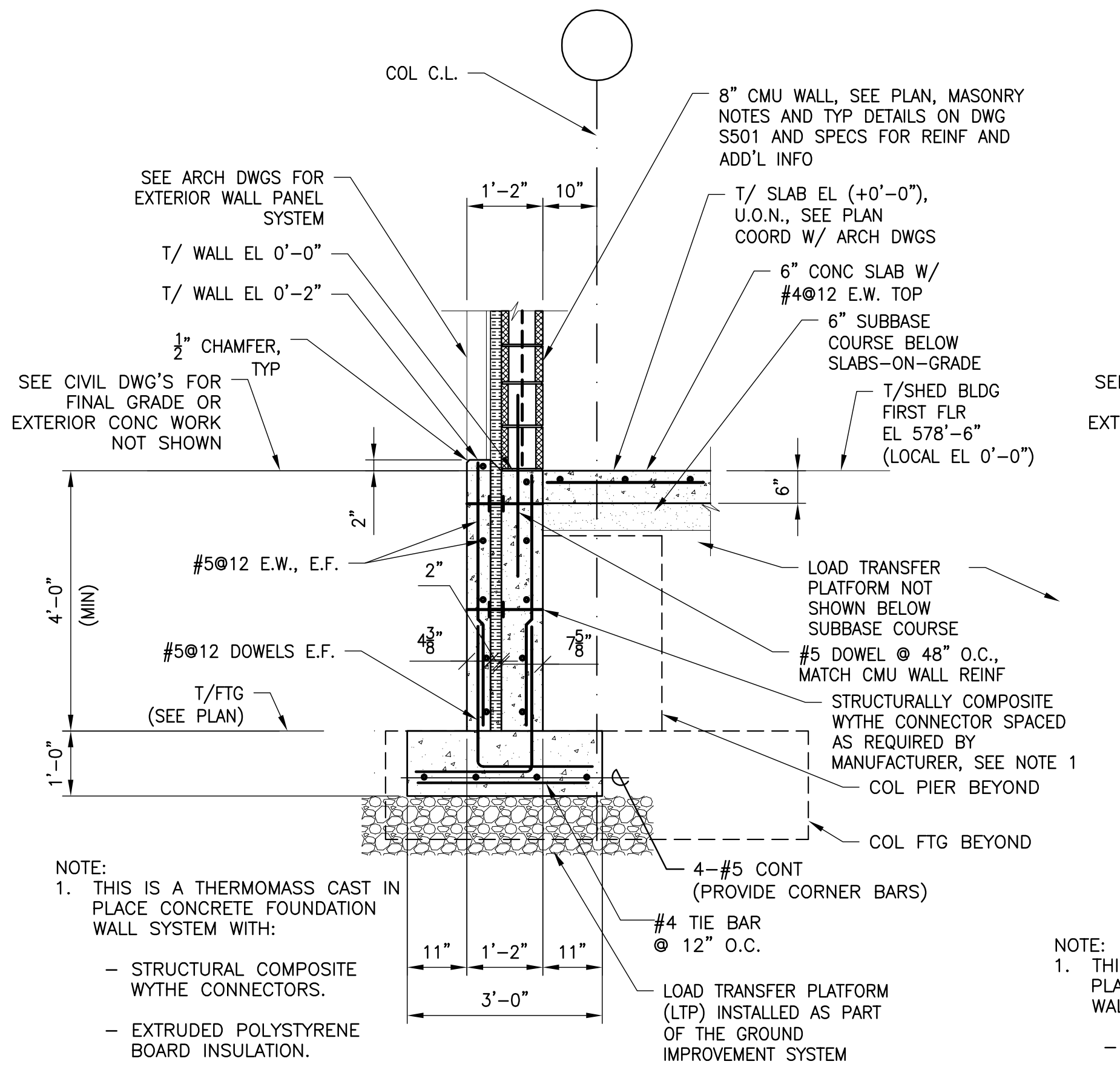
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – FOUNDATION SECTIONS

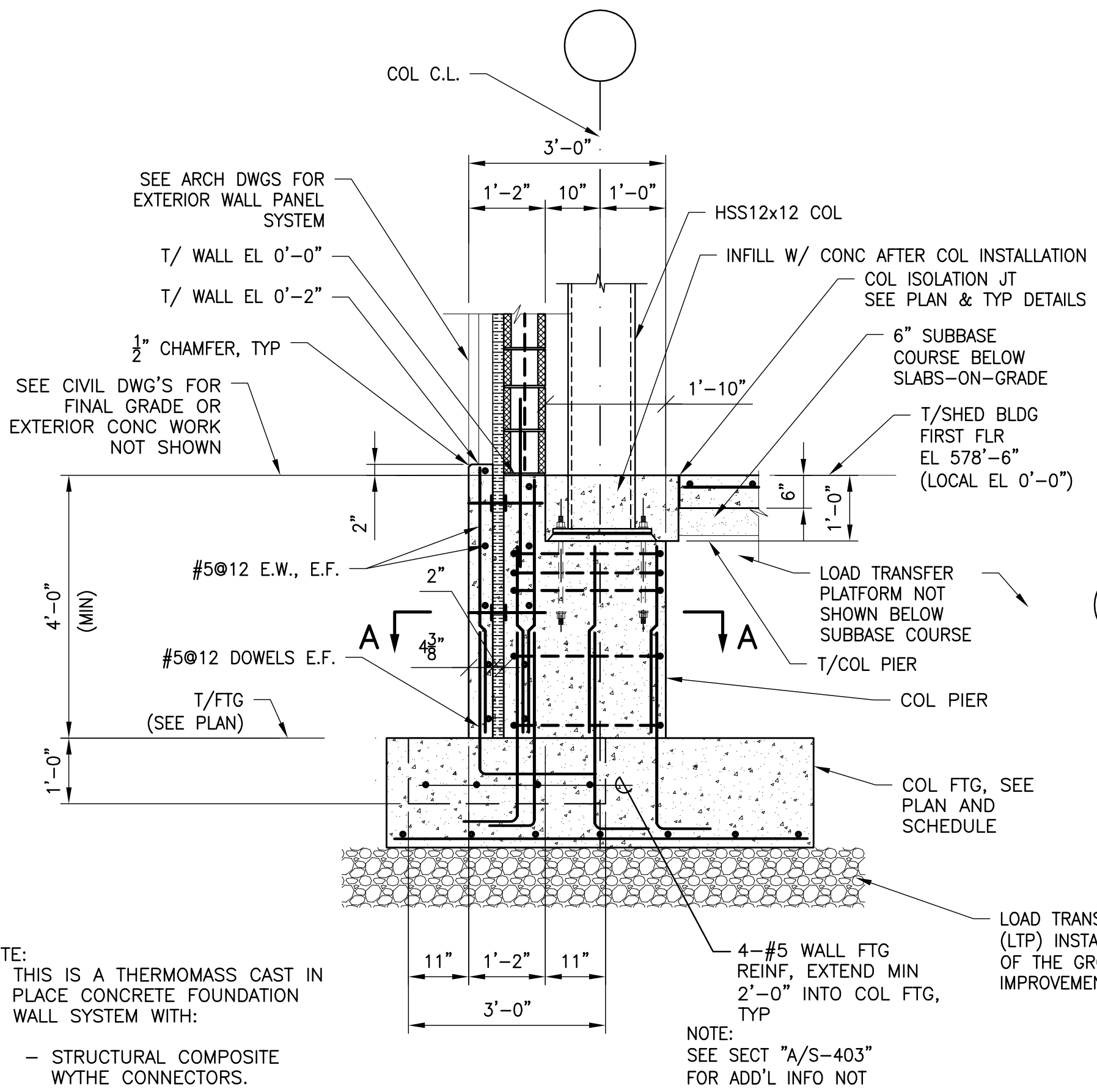
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-402


COL C.L.
8" CMU WALL, SEE PLAN, MASONRY NOTES AND TYP DETAILS ON DWG S501 AND SPECS FOR REINF AND ADD'L INFO
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
T/ WALL EL 0'-0"
T/ WALL EL 0'-2"
¾" CHAMFER, TYP
SEE CIVIL DWG'S FOR FINAL GRADE OR EXTERIOR CONC WORK NOT SHOWN
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
6" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
#5@12 E.W., E.F.
#5@12 DOWELS E.F.
T/FTG (SEE PLAN)
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
#5 DOWEL @ 48" O.C., MATCH CMU WALL REINF
STRUCTURALLY COMPOSITE WYTHE CONNECTOR SPACED AS REQUIRED BY MANUFACTURER, SEE NOTE 1
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C.
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
1'-2"
10"
4'-0" (MIN)
1'-0"
11"
1'-2"
11"
3'-0"

NOTE:
1. THIS IS A THERMOMASS CAST IN PLACE CONCRETE FOUNDATION WALL SYSTEM WITH:
   - STRUCTURAL COMPOSITE WYTHE CONNECTORS.
   - EXTRUDED POLYSTYRENE BOARD INSULATION.

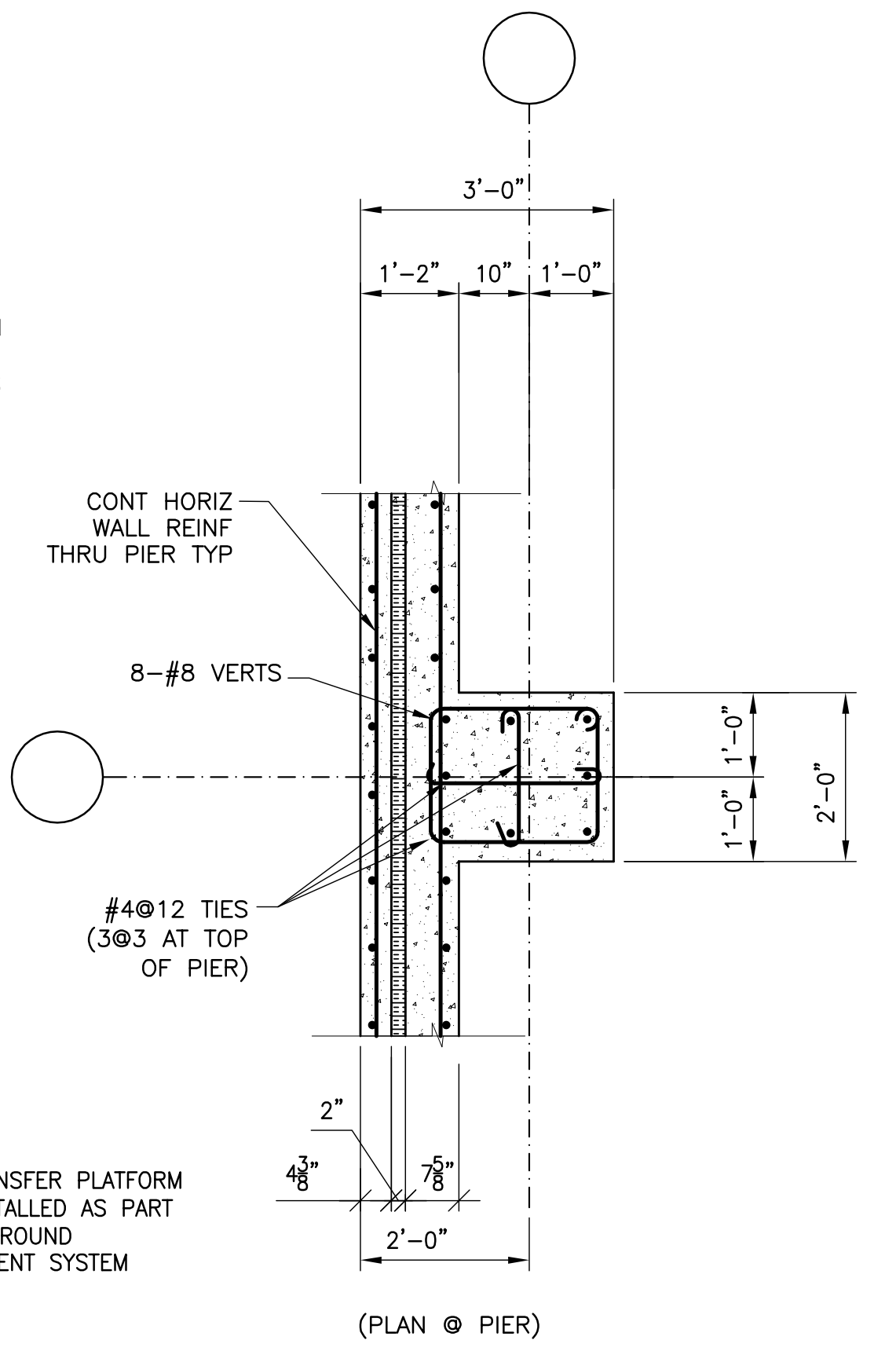
A SECTION
S-403 1/2"=1'-0"


COL C.L.
3'-0"
SEE ARCH DWGS FOR EXTERIOR WALL PANEL SYSTEM
T/ WALL EL 0'-0"
T/ WALL EL 0'-2"
¾" CHAMFER, TYP
SEE CIVIL DWG'S FOR FINAL GRADE OR EXTERIOR CONC WORK NOT SHOWN
HSS12x12 COL
INFILL W/ CONC AFTER COL INSTALLATION
COL ISOLATION JT SEE PLAN & TYP DETAILS
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
#5@12 E.W., E.F.
#5@12 DOWELS E.F.
T/FTG (SEE PLAN)
A
A
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
T/COL PIER
COL PIER
COL FTG, SEE PLAN AND SCHEDULE
4-#5 WALL FTG REINF, EXTEND MIN 2'-0" INTO COL FTG, TYP
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
1'-10"
4'-0" (MIN)
11"
1'-2"
11"
3'-0"

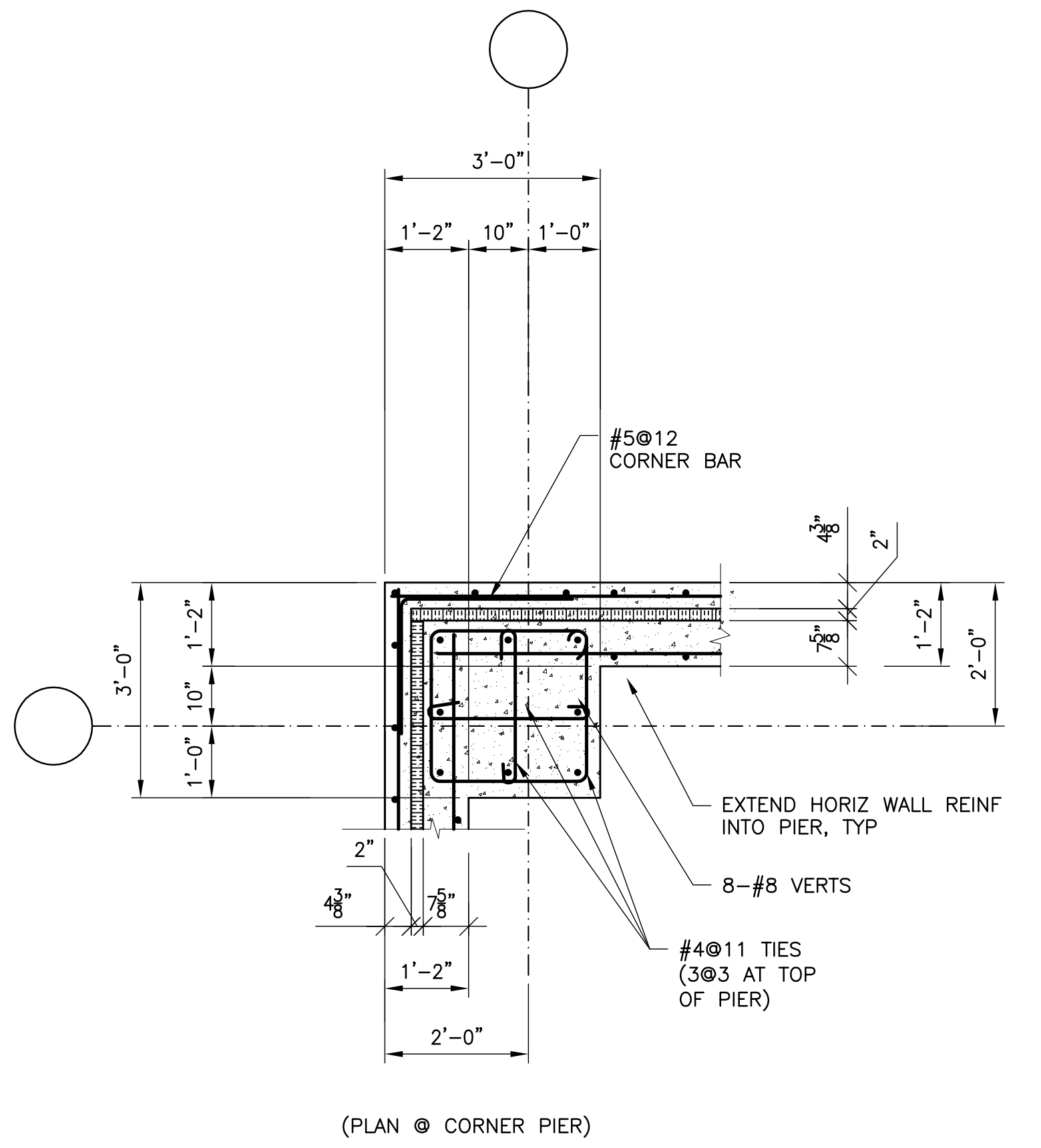
NOTE:
1. THIS IS A THERMOMASS CAST IN PLACE CONCRETE FOUNDATION WALL SYSTEM WITH:
   - STRUCTURAL COMPOSITE WYTHE CONNECTORS.
   - EXTRUDED POLYSTYRENE BOARD INSULATION.

NOTE:
SEE SECT "A/S-403" FOR ADD'L INFO NOT SHOWN

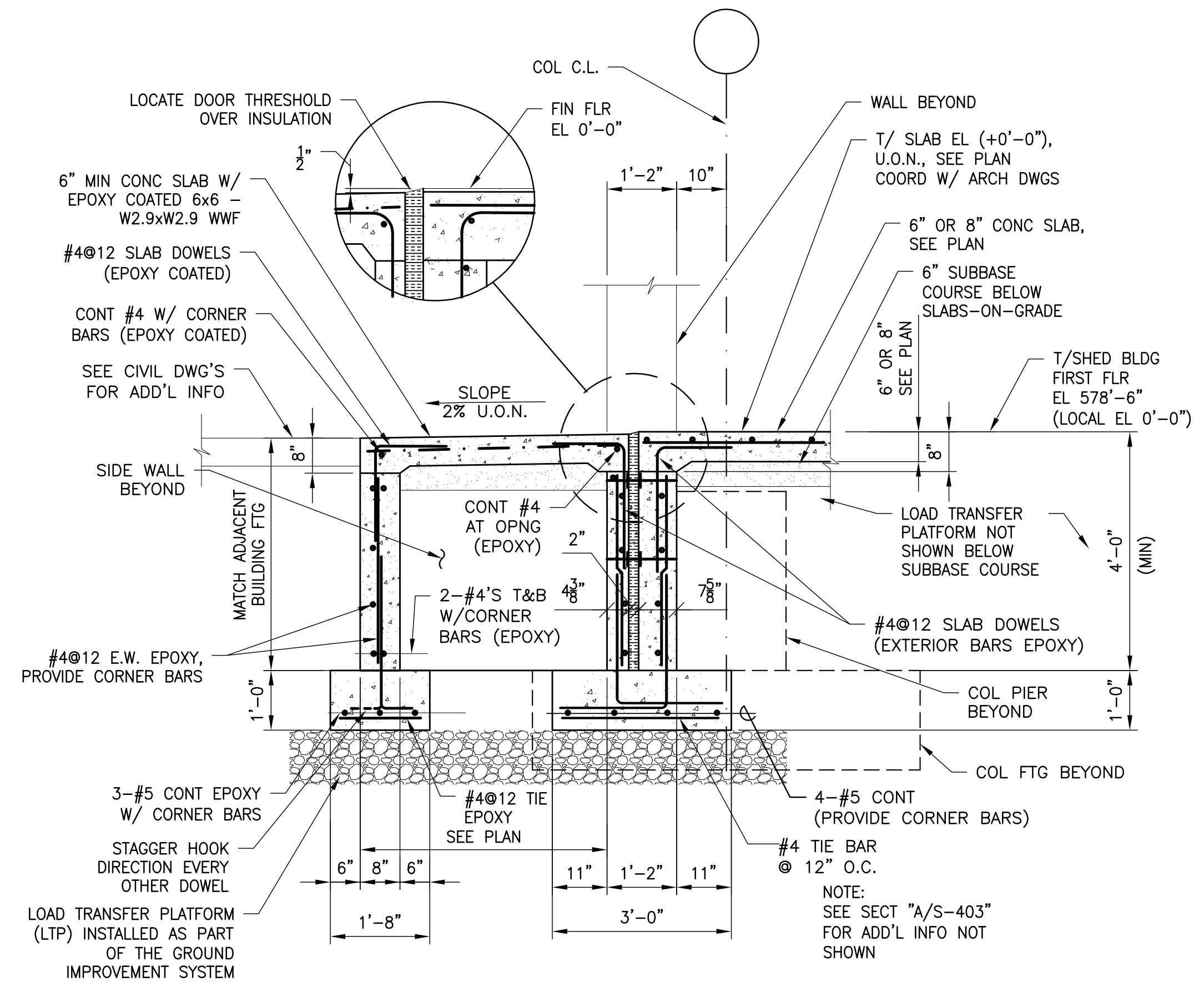
B SECTION
S-403 1/2"=1'-0"


3'-0"
1'-2"
10"
1'-0"
CONT HORIZ WALL REINF THRU PIER TYP
8-#8 VERTS
#4@12 TIES (3@3 AT TOP OF PIER)
2'-0"
3'-0"
1'-0"
10"
2"

(PLAN @ PIER)
SECTION A-A


3'-0"
1'-2"
10"
1'-0"
#5@12 CORNER BAR
EXTEND HORIZ WALL REINF INTO PIER, TYP
8-#8 VERTS
#4@11 TIES (3@3 AT TOP OF PIER)
2'-0"
1'-2"
3'-0"
1'-0"

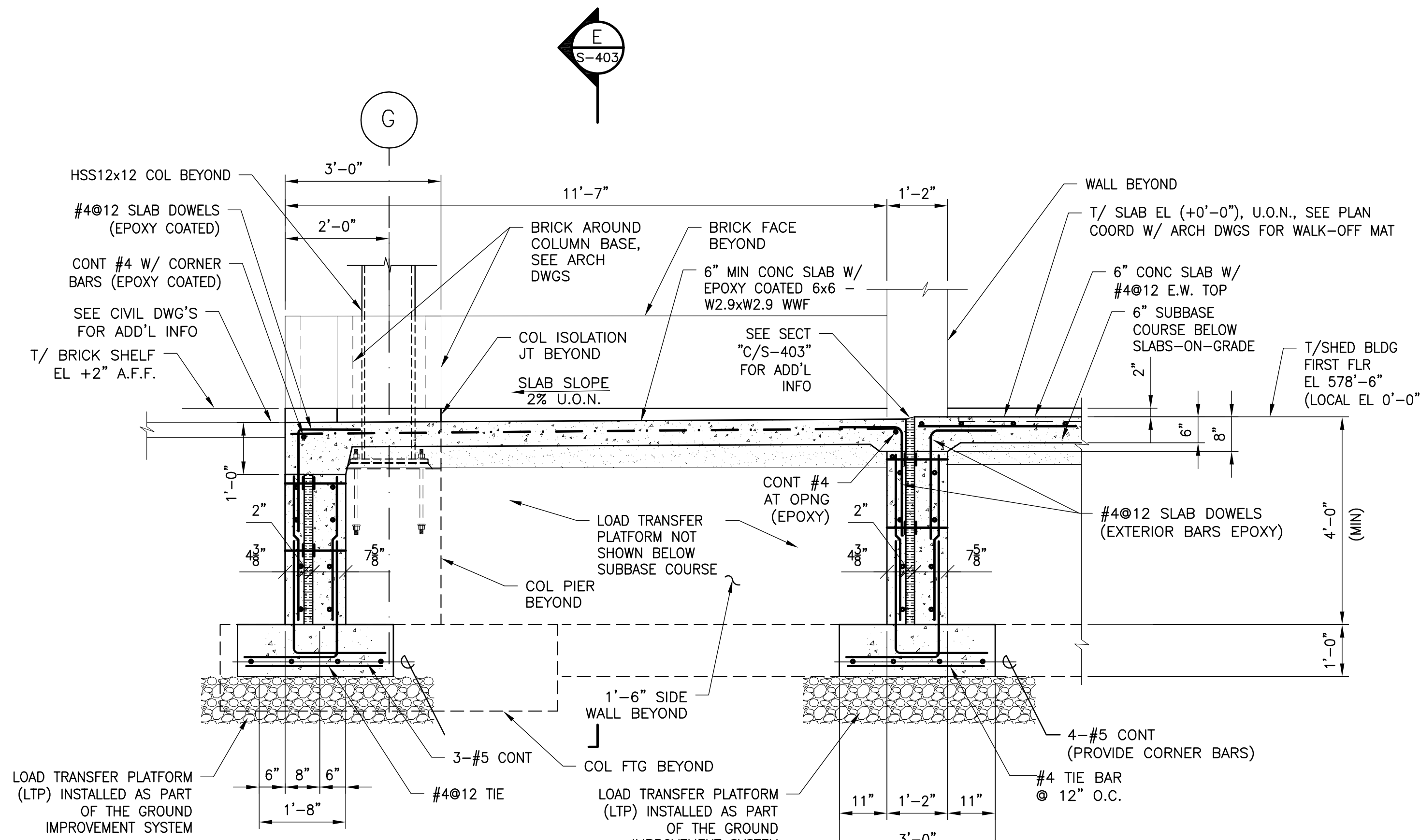
(PLAN @ CORNER PIER)
SECTION A-A


COL C.L.
LOCATE DOOR THRESHOLD OVER INSULATION
FIN FLR EL 0'-0"
WALL BEYOND
6" MIN CONC SLAB W/ EPOXY COATED 6x6 - W2.9xW2.9 WWF
#4@12 SLAB DOWELS (EPOXY COATED)
CONT #4 W/ CORNER BARS (EPOXY COATED)
SEE CIVIL DWG'S FOR ADD'L INFO
SIDE WALL BEYOND
MATCH ADJACENT BUILDING FTG
SLOPE 2% U.O.N.
CONT #4 AT OPNG (EPOXY)
2-#4'S T&B W/CORNER BARS (EPOXY)
#4@12 E.W. EPOXY, PROVIDE CORNER BARS
3-#5 CONT EPOXY W/ CORNER BARS
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
#4@12 TIE EPOXY SEE PLAN
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
6" OR 8" CONC SLAB, SEE PLAN
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
#4@12 SLAB DOWELS (EXTERIOR BARS EPOXY)
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C.
6" OR 8" SEE PLAN
1'-2"
10"
6"
8"
6"
1'-8"
11"
1'-2"
11"
3'-0"
4'-0" (MIN)

NOTE:
SEE SECT "A/S-403" FOR ADD'L INFO NOT SHOWN

NOTE:
PROVIDE INTERSECTION BARS AT SIDE WALLS THAT ABUT MAIN FOUNDATION WALLS, TYP.

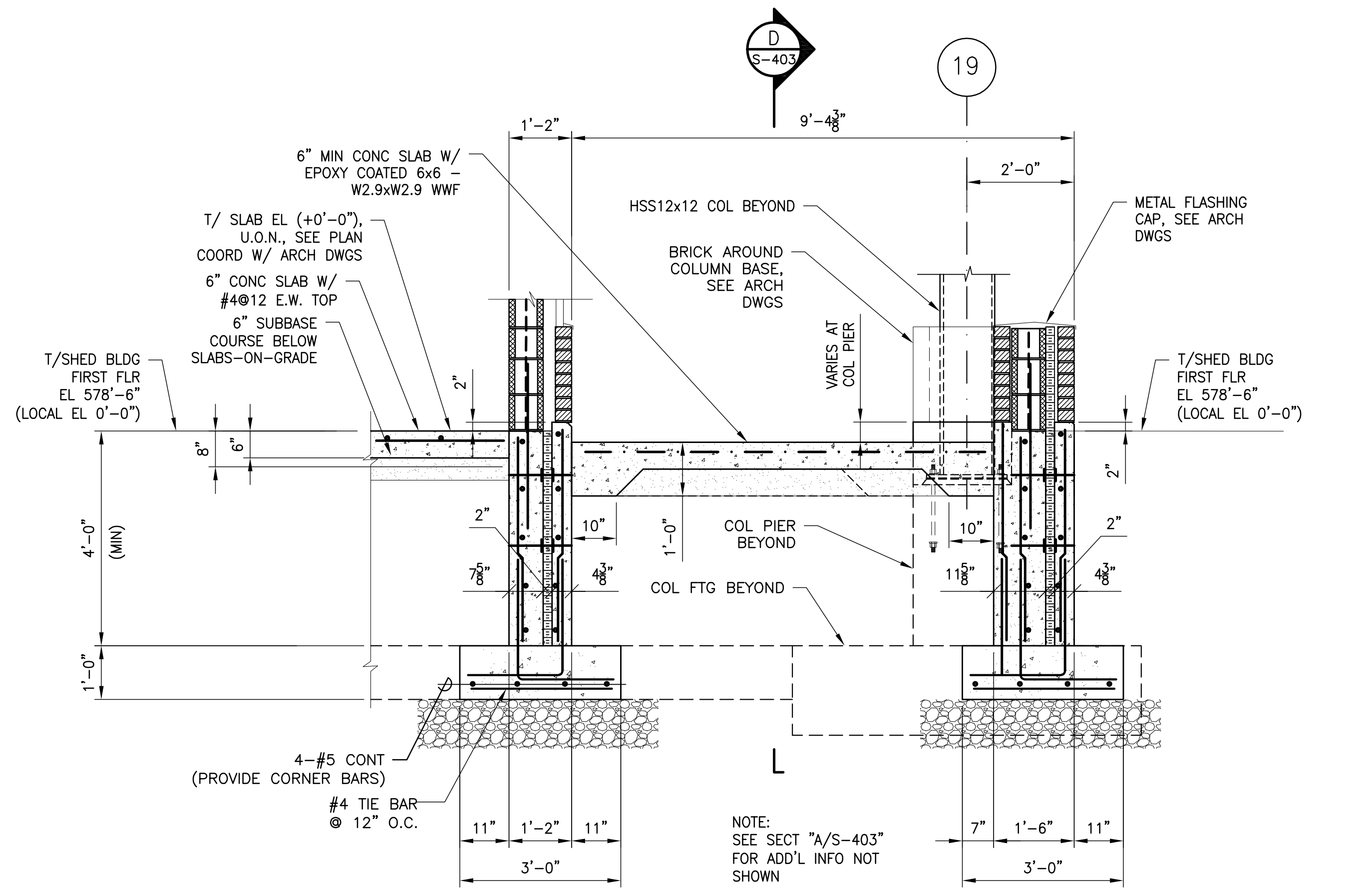
C SECTION AT MANDOOR
S-403 1/2"=1'-0"


E S-403
G
HSS12x12 COL BEYOND
#4@12 SLAB DOWELS (EPOXY COATED)
CONT #4 W/ CORNER BARS (EPOXY COATED)
SEE CIVIL DWG'S FOR ADD'L INFO
T/ BRICK SHELF EL +2" A.F.F.
3'-0"
2'-0"
11'-7"
1'-2"
BRICK AROUND COLUMN BASE, SEE ARCH DWGS
BRICK FACE BEYOND
6" MIN CONC SLAB W/ EPOXY COATED 6x6 - W2.9xW2.9 WWF
SEE SECT "C/S-403" FOR ADD'L INFO
COL ISOLATION JT BEYOND
SLAB SLOPE 2% U.O.N.
WALL BEYOND
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS FOR WALK-OFF MAT
6" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
CONT #4 AT OPNG (EPOXY)
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
COL PIER BEYOND
#4@12 SLAB DOWELS (EXTERIOR BARS EPOXY)
1'-6" SIDE WALL BEYOND
J
3-#5 CONT
#4@12 TIE
COL FTG BEYOND
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
4-#5 CONT (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C.
6"
8"
6"
1'-8"
11"
1'-2"
11"
3'-0"
4'-0" (MIN)

NOTE:
PROVIDE INTERSECTION BARS AT SIDE WALLS THAT ABUT MAIN FOUNDATION WALLS, TYP.

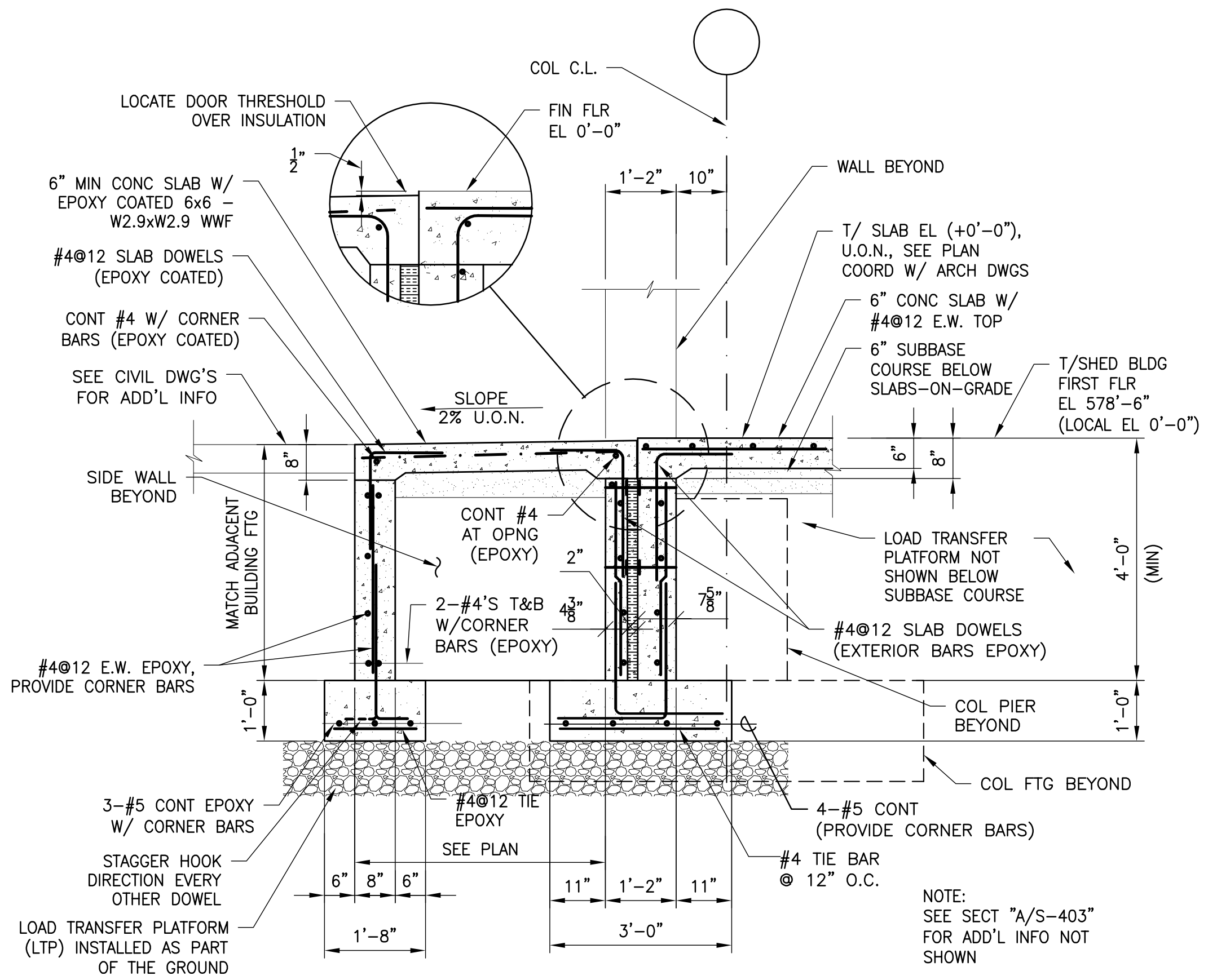
NOTE:
SEE SECT "A/S-403" FOR ADD'L INFO NOT SHOWN

D SECTION
S-403 1/2"=1'-0"


D S-403
19
1'-2"
9'-4⅝"
2'-0"
6" MIN CONC SLAB W/ EPOXY COATED 6x6 - W2.9xW2.9 WWF
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
6" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
HSS12x12 COL BEYOND
BRICK AROUND COLUMN BASE, SEE ARCH DWGS
VARIES AT COL PIER
METAL FLASHING CAP, SEE ARCH DWGS
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C.
L
11"
1'-2"
11"
3'-0"
7"
1'-6"
11"
3'-0"
4'-0" (MIN)

NOTE:
SEE SECT "A/S-403" FOR ADD'L INFO NOT SHOWN

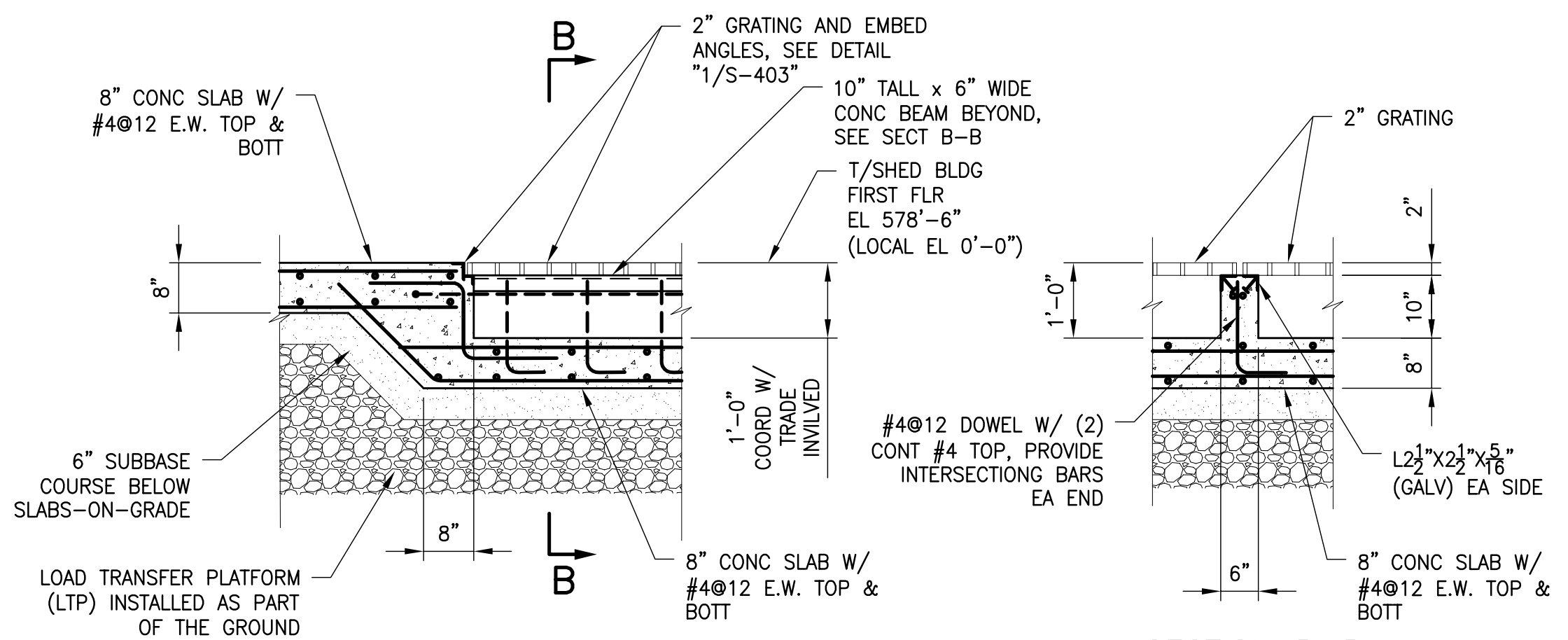
E SECTION
S-403 1/2"=1'-0"


COL C.L.
LOCATE DOOR THRESHOLD OVER INSULATION
FIN FLR EL 0'-0"
WALL BEYOND
6" MIN CONC SLAB W/ EPOXY COATED 6x6 - W2.9xW2.9 WWF
#4@12 SLAB DOWELS (EPOXY COATED)
CONT #4 W/ CORNER BARS (EPOXY COATED)
SEE CIVIL DWG'S FOR ADD'L INFO
SIDE WALL BEYOND
MATCH ADJACENT BUILDING FTG
SLOPE 2% U.O.N.
CONT #4 AT OPNG (EPOXY)
2-#4'S T&B W/CORNER BARS (EPOXY)
#4@12 E.W. EPOXY, PROVIDE CORNER BARS
3-#5 CONT EPOXY W/ CORNER BARS
STAGGER HOOK DIRECTION EVERY OTHER DOWEL
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
#4@12 TIE EPOXY SEE PLAN
T/ SLAB EL (+0'-0"), U.O.N., SEE PLAN COORD W/ ARCH DWGS
6" CONC SLAB W/ #4@12 E.W. TOP
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
#4@12 SLAB DOWELS (EXTERIOR BARS EPOXY)
COL PIER BEYOND
COL FTG BEYOND
4-#5 CONT (PROVIDE CORNER BARS)
#4 TIE BAR @ 12" O.C.
1'-2"
10"
6"
8"
6"
1'-8"
11"
1'-2"
11"
3'-0"
4'-0" (MIN)

NOTE:
SEE SECT "A/S-403" FOR ADD'L INFO NOT SHOWN

NOTE:
PROVIDE INTERSECTION BARS AT SIDE WALLS THAT ABUT MAIN FOUNDATION WALLS, TYP.

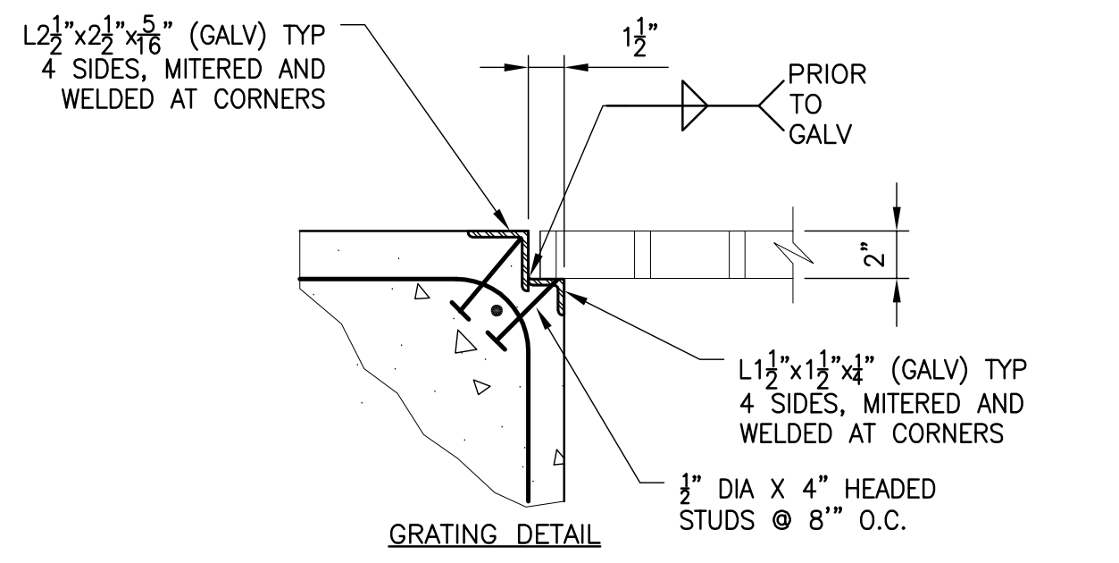
F SECTION AT O.H. DOOR
S-403 1/2"=1'-0"


B
B
2" GRATING AND EMBED ANGLES, SEE DETAIL "1/S-403"
10" TALL x 6" WIDE CONC BEAM BEYOND, SEE SECT B-B
8" CONC SLAB W/ #4@12 E.W. TOP & BOTT
T/SHED BLDG FIRST FLR EL 578'-6" (LOCAL EL 0'-0")
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
#4@12 DOWEL W/ (2) CONT #4 TOP, PROVIDE INTERSECTION BARS EA END
1'-0" COORD W/ TRADE INVOLVED
8" CONC SLAB W/ #4@12 E.W. TOP & BOTT
2" GRATING
L2½"x2½"x¼" (GALV) EA SIDE
8" CONC SLAB W/ #4@12 E.W. TOP & BOTT
8"
10"
6"
8"

SECTION B-B

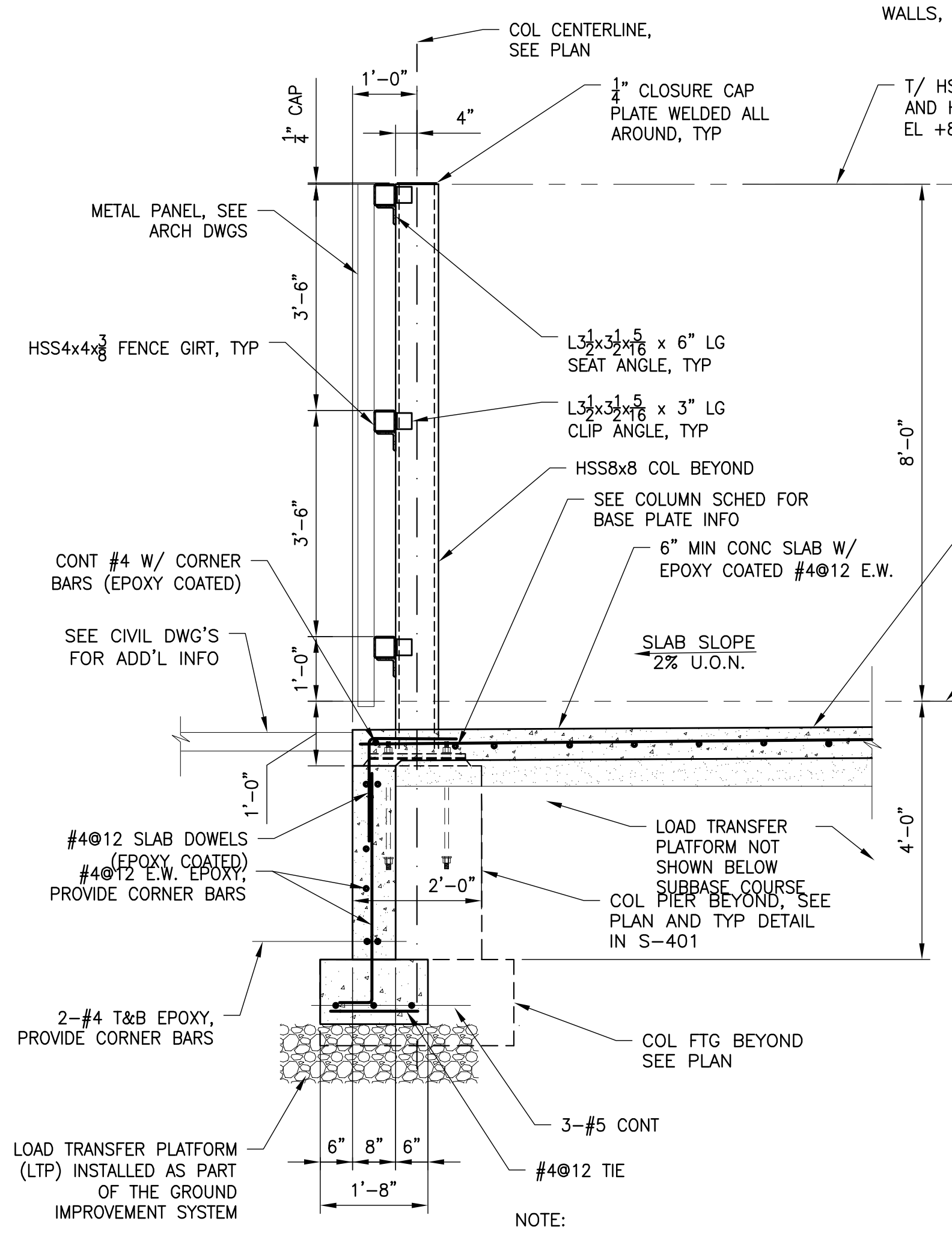
NOTES:
1. COORD SIZE, DEPTH AND LOCATION OF PIT W/ ARCH DWGS.
2. SAND FILL UNDER GRATING NOT SHOWN.

G SECTION AT SAND PIT W/ REMOVABLE GRATING
S-403 1/2"=1'-0"


L2½"x2½"x¼" (GALV) TYP 4 SIDES, MITERED AND WELDED AT CORNERS
1½"
PRIOR TO GALV
L1½"x1½"x¼" (GALV) TYP 4 SIDES, MITERED AND WELDED AT CORNERS
⅜" DIA X 4" HEADED STUDS @ 8" O.C.
2"
GRATING DETAIL

NOTE:
BAR GRATING SHALL BE STANDARD-DUTY WELDED, RECTANGULAR BAR, CMW-4-200 - CLOSE MESH, ADA, 11-W-4 SPACING, CARBON STEEL, HOT ROLLED, 2" X 3/16" RECTANGULAR BEARING BARS SPACED AT 11/16" CENTER TO CENTER WITH CROSS BARS @ 4" CENTER TO CENTER, TO BE RESISTANCE WELDED AT RIGHT ANGLES TO THE MAIN BEARING BARS, SMOOTH SURFACE, 70% OPEN AREA AS MANUFACTURED BY MCNICHOLS BAR GRATING OR APPROVED EQUAL. FINISH TO BE HOT-DIPPED GALVANIZED.

1 GRATING DETAIL
S-403 1 1/2"=1'-0"


COL CENTERLINE, SEE PLAN
1'-0"
4"
¾" CAP
¾" CLOSURE CAP PLATE WELDED ALL AROUND, TYP
T/ HSS8x8 POST AND HSS4x4 GIRT EL +8'-0"
METAL PANEL, SEE ARCH DWGS
HSS4x4 FENCE GIRT, TYP
L3½x3½x⅜ x 6" LG SEAT ANGLE, TYP
L3½x3½x⅜ x 3" LG CLIP ANGLE, TYP
HSS8x8 COL BEYOND
SEE COLUMN SCHED FOR BASE PLATE INFO
6" MIN CONC SLAB W/ EPOXY COATED #4@12 E.W.
CONT #4 W/ CORNER BARS (EPOXY COATED)
SEE CIVIL DWG'S FOR ADD'L INFO
SLAB SLOPE 2% U.O.N.
T/ SLAB AT BUILDING = (-½" BELOW FIN FLR)
REF DATUM FIN FLR EL 0'-0
#4@12 SLAB DOWELS (EPOXY COATED)
#4@12 E.W. EPOXY, PROVIDE CORNER BARS
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
COL PIER BEYOND, SEE PLAN AND TYP DETAIL IN S-401
2-#4 T&B EPOXY, PROVIDE CORNER BARS
COL FTG BEYOND SEE PLAN
3-#5 CONT
#4@12 TIE
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
2'-0"
6"
8"
6"
1'-8"
3'-6"
8'-0"
4'-0"
1'-0"

NOTE:
PROVIDE INTERSECTION BARS AT SIDE WALLS THAT ABUT MAIN FOUNDATION WALLS, TYP.

H SECTION AT EXTERIOR FENCED AREA
S-403 1/2"=1'-0"

ONEIDA COUNTY NEW YORK 1798

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MA MARCH ASSOCIATES
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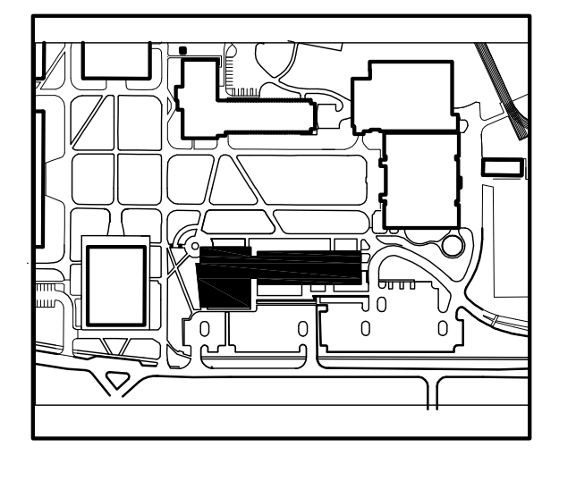
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SHED BUILDING – FOUNDATION SECTIONS

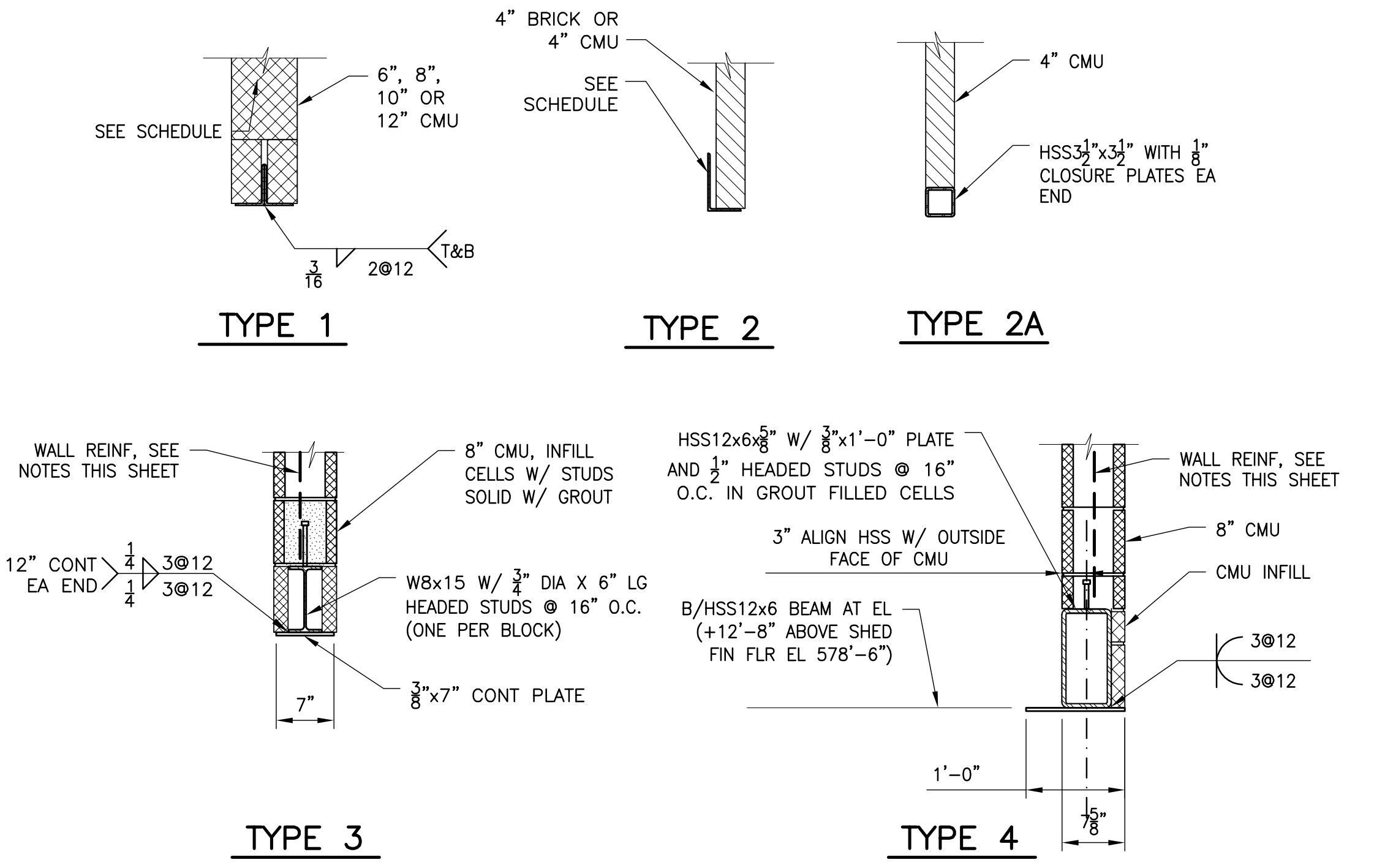
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-403

LINTEL SCHEDULE				
MARK	CLEAR OPENING	SIZE	WALL TYPE	REMARKS
L–1	0'–7' FT	2L 3x2$\frac{1}{2}$x$\frac{5}{16}$ LLV	6" CMU TYPE 1	—
L–2	0'–7' FT	2L 6x3$\frac{1}{2}$x$\frac{5}{16}$ LLV	8" CMU TYPE 1	—
L–3	0'–7' FT	2L 6x4x$\frac{5}{16}$" LLV	10" CMU TYPE 1	—
L–4	0'–7' FT	2L 5x5x$\frac{3}{8}$	12" CMU TYPE 1	—
L–5	4'–8' FT	L7x4x$\frac{3}{8}$" (LLV)	4" BRICK OR 4" CMU TYPE 2	—
L–6	4'–7' FT	HSS3$\frac{1}{2}$x3$\frac{1}{2}$x$\frac{1}{4}$	4" CMU TYPE 2A	—
L–7	UP TO 10'–0"	W8x15+ $\frac{3}{8}$" PLATE	8" CMU TYPE 3	—
L–8	UP TO 12'–0"	HSS12x6x$\frac{5}{8}$" + $\frac{3}{8}$" PLATE	8" CMU TYPE 4	—

NOTES:
1. ALL OPENINGS THRU MASONRY WALLS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS REQUIRED IN CMU WALLS AND PROVIDE STEEL LINTELS PER SCHEDULE. (1 ANGLE PER EVERY 4" WYTHE OF MASONRY U.O.N.)
2. PENETRATIONS 16" OR SMALLER THROUGH MASONRY WALLS DO NOT NEED LINTELS U.O.N. BELOW;

   PROVIDE NEW LINTELS PER THE SCHEDULE AS FOLLOWS:
   a. PROVIDE LINTELS IN MASONRY WALLS FOR NEW PENETRATIONS GREATER THAN 16" IN WIDTH.
   b. PROVIDE LINTELS IF OPENING IS DIRECTLY BELOW BEAM OR JOIST BEARING POCKET REGARDLESS OF OPENING WIDTH.
   c. PROVIDE LINTELS IN ALL NEW OR EXISTING OPENINGS IF ANY OF THESE OPENINGS ARE LOCATED LESS THAN 3 COURSES VERTICALLY OF EACH OTHER REGARDLESS OF OPENING WIDTHS.
3. PROVIDE 8" BEARING EACH END, TYP UNLESS OTHERWISE NOTED.
4. FOR SPANS NOT LISTED, CONSULT A/E.
5. ALL LINTELS IN EXTERIOR WALLS SHALL BE HOT–DIPPED GALVANIZED FINISH. SEE SPECIFICATIONS
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS ASSOCIATED WITH INSTALLATION OF ALL STEEL LINTELS, INCLUDING BUT NOT LIMITED TO DESIGN, INSTALLATION, AND REMOVAL OF ALL TEMPORARY SHORING AND BRACING AS REQUIRED FOR THE STRUCTURE AND BUILDING FEATURES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OBTAINING THE SERVICES OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO PREPARE THE REQUIRED DESIGN AND SHORING DOCUMENTS TO PERFORM THIS WORK. THESE DOCUMENTS SHALL BE SIGNED AND SEALED BY THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN AND PREPARATION OF THESE DOCUMENTS AND SHALL BE SUBMITTED TO THE A/E FOR RECORD.

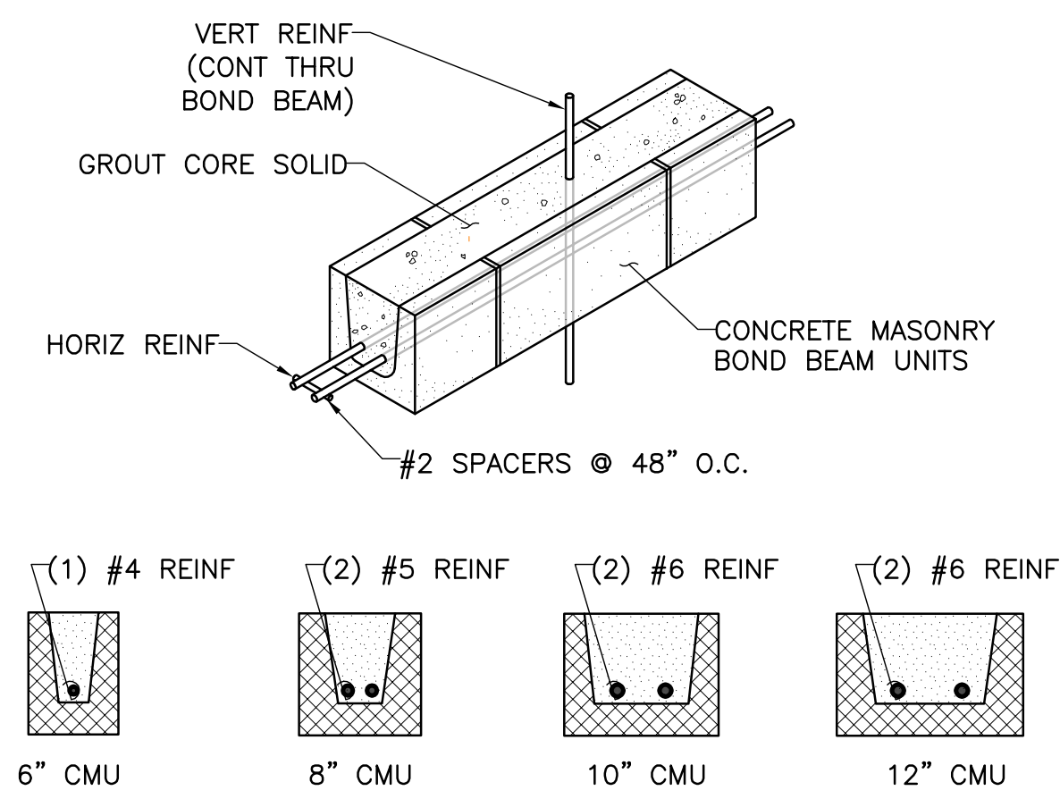

SEE SCHEDULE
6", 8", 10" OR 12" CMU
3/16
2@12
T&B
TYPE 1
4" BRICK OR 4" CMU
SEE SCHEDULE
TYPE 2
4" CMU
HSS3½"x3½" WITH ⅛" CLOSURE PLATES EA END
TYPE 2A
WALL REINF, SEE NOTES THIS SHEET
8" CMU, INFILL CELLS W/ STUDS SOLID W/ GROUT
12" CONT EA END
1/4
3@12
3@12
W8x15 W/ ¾" DIA X 6" LG HEADED STUDS @ 16" O.C. (ONE PER BLOCK)
7"
⅜"x7" CONT PLATE
TYPE 3
HSS12x6x⅝" W/ ⅜"x1'–0" PLATE AND ½" HEADED STUDS @ 16" O.C. IN GROUT FILLED CELLS
3" ALIGN HSS W/ OUTSIDE FACE OF CMU
B/HSS12x6 BEAM AT EL (+12'–8" ABOVE SHED FIN FLR EL 578'–6")
WALL REINF, SEE NOTES THIS SHEET
8" CMU
CMU INFILL
3@12
3@12
1'–0"
7⅝"
TYPE 4

1 STEEL LINTEL SCHEDULE
S–501 3/4"=1'–0"

TYPICAL CMU LINTEL NOTES:

1. GROUT SOLID ALL MASONRY UNITS.
2. ALL REINFORCING BARS ARE HOOKED AROUND VERTICAL BARS AT THE ENDS. STIRRUPS SHALL TERMINATE IN FULL 180° HOOK.
3. LINTELS SHALL BEAR ON SOLID CMU OR BEAR ON 2 FILLED COURSES, U.O.N.
4. BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL.
5. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
6. COORD LINTEL LOCATIONS W/ ARCHITECTURAL DRAWINGS.
7. SEE MASONRY GENERAL NOTES THIS SHEET FOR ADD'L INFO.

2 CMU LINTEL NOTES
S–501 3/4"=1'–0"


VERT REINF (CONT THRU BOND BEAM)
GROUT CORE SOLID
HORIZ REINF
CONCRETE MASONRY BOND BEAM UNITS
#2 SPACERS @ 48" O.C.
(1) #4 REINF
(2) #5 REINF
(2) #6 REINF
(2) #6 REINF
6" CMU
8" CMU
10" CMU
12" CMU

3 TYP CMU BOND BEAM
S–501 3/4"=1'–0"

MASONRY NOTES

M–1. ALL CONCRETE MASONRY SHALL CONFORM WITH ASTM C90 HOLLOW LOAD BEARING (HL) UNITS WITH A COMPRESSIVE STRENGTH OF 2150 PSI ON THE NET SECTION.

M–2. ALL MORTAR SHALL CONFORM WITH ASTM C270.

M–3. ALL GROUT SHALL CONFORM WITH ASTM C476 AND HAVE AN AVERAGE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. CONCRETE SHALL NOT BE USED IN LIEU OF MASONRY GROUT.

M–4. CENTER ALL VERTICAL REINFORCING IN CMU CORE AND HOLD IN POSITION WITH CAGING DEVICES.

M–5. THE MINIMUM LENGTH OF LAP FOR REINFORCING IN MASONRY WALLS UNLESS OTHERWISE NOTED SHALL BE AS FOLLOWS:

BAR NO	LAP
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"

M–6. ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND REINFORCED AS FOLLOWS:

BOND BEAM	REINFORCING
6" CMU	(1) #4
8" CMU	(2) #5
10" CMU	(2) #6
12" CMU	(2) #6

REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE HORIZONTAL BENT BARS AT CORNERS TO MAINTAIN CONTINUOUS REINFORCING.

IN ADDITION TO BOND BEAMS SHOWN ON ARCHITECTURAL AND STRUCTURAL SECTIONS AND DETAILS, PROVIDE ADDITIONAL BOND BEAMS VERTICALLY SPACED @ 8'–0" MAXIMUM, FULL HEIGHT OF WALLS.

M–7. GROUT SHALL BE PLACED IN THE VERTICAL CORES OF THE MASONRY UNITS UTILIZING THE LOW LIFT GROUTING METHOD SET FORTH IN NCMA–TEK 23A.

A) WEBS ADJACENT TO CORES TO BE GROUTED SHALL BE MORTARED. MORTAR SHALL BE STRUCK FLUSH WITH THE INSIDE FACE OF CORES TO BE GROUTED. CORES TO BE GROUTED SHALL BE CLEARED OF ALL MORTAR DROPPINGS AND OTHER DEBRIS PRIOR TO GROUTING.
B) THE MAXIMUM HEIGHT OF A GROUT LIFT SHALL BE 4 FEET.
C) STOP GROUT POURS 1½ INCHES BELOW THE UPPERMOST PORTION OF THE CAVITY BEING FILLED TO PROVIDE A KEY FOR THE NEXT LIFT OR POUR.
D) CONSOLIDATE GROUT BY VIBRATE TWICE WITH A MECHANICAL VIBRATOR EACH LIFT, ONCE IMMEDIATELY AFTER POUR AND ONCE APPROXIMATELY 30 MINUTES AFTER GROUT IS INSTALLED.
E) ALL REINFORCING STEEL SHALL BE INSPECTED IN PLACE BEFORE GROUTING AND THERE SHALL BE CONTINUOUS INSPECTION DURING THE GROUTING OPERATION.

M–8. PROVIDE VERTICAL #5'S IN GROUTED CORES AT 48 INCHES O.C. FOR ALL 8" AND 10" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

PROVIDE VERTICAL #6'S IN GROUTED CORES AT 48 INCHES O.C. FOR ALL 12" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

PROVIDE VERTICAL #4'S IN GROUTED CORES AT 48 INCHES O.C. FOR ALL 6" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

PROVIDE DOWELS INTO FOUNDATION WALLS MATCHING SIZE AND SPACING OF WALL VERTICAL BARS.

M–9. PLACE #5 VERTICAL REINFORCING BARS IN TWO GROUTED CORES EACH SIDE OF OPENINGS EXTENDING FULL HEIGHT OF WALL FOR ALL 8" AND 10" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

PLACE #6 VERTICAL REINFORCING BARS IN TWO GROUTED CORES EACH SIDE OF OPENINGS EXTENDING FULL HEIGHT OF WALL FOR ALL 12" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

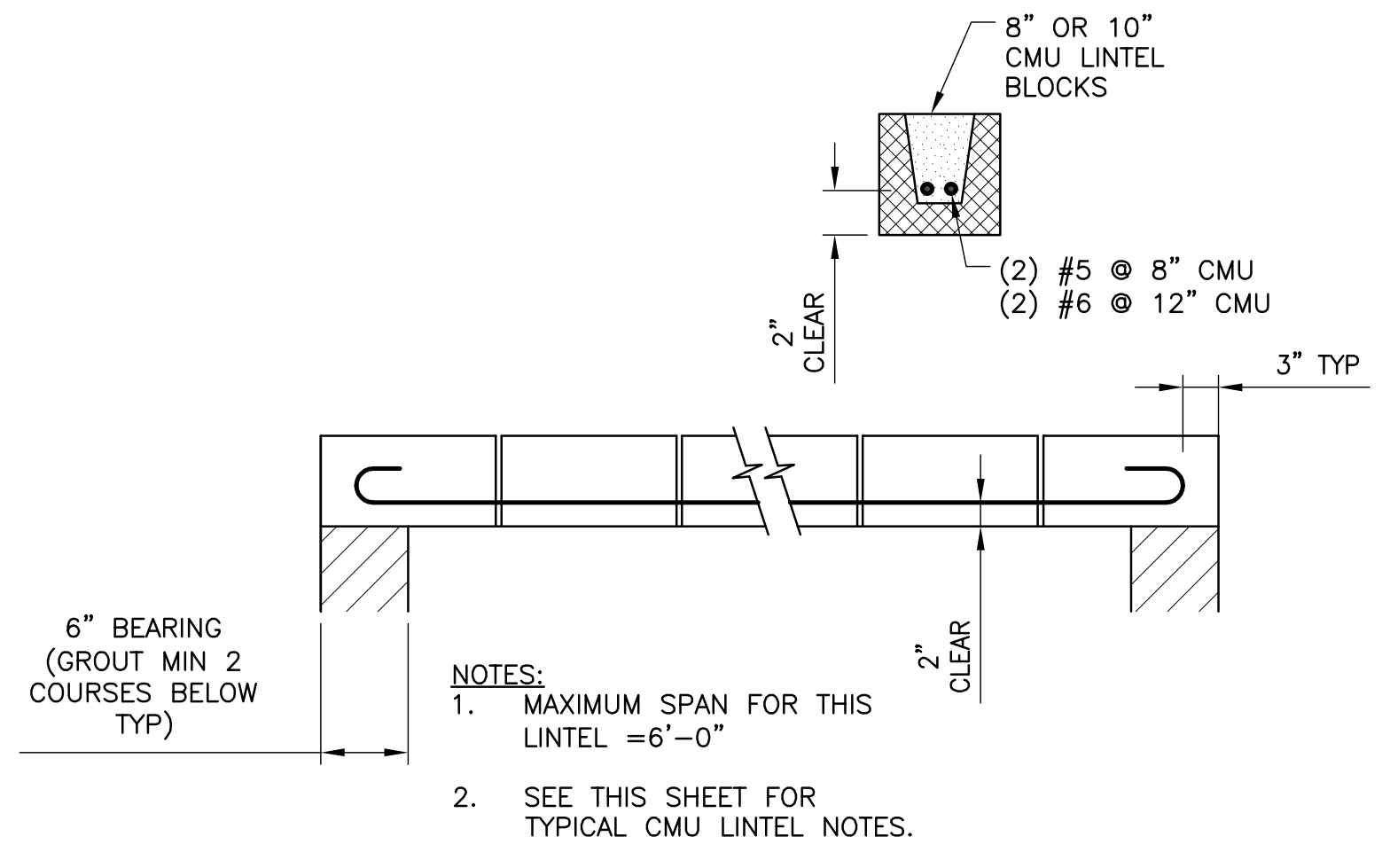
PLACE #4 VERTICAL REINFORCING BARS IN TWO GROUTED CORES EACH SIDE OF OPENINGS EXTENDING FULL HEIGHT OF WALL FOR ALL 6" CMU WALLS, TYPICAL UNLESS OTHERWISE NOTED IN SECTIONS OR TYPICAL DETAILS.

PROVIDE DOWELS INTO FOUNDATION WALLS MATCHING SIZE AND SPACING OF WALL VERTICAL BARS.

M–10. PROVIDE TWO VERTICAL REINFORCING BAR (SAME SIZE AS ADJACENT WALL) FULL HEIGHT OF WALL AT CORNERS, INTERSECTIONS, WALL ENDS, JAMBS AND EACH SIDE OF CONTROL JOINTS, U.O.N.

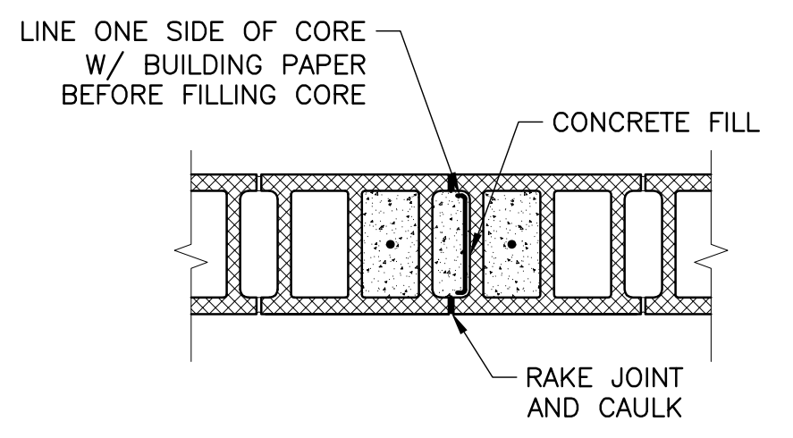
M–11. SUBMIT SHOP DRAWINGS DETAILING ALL REINFORCING STEEL IN REINFORCED MASONRY CONSTRUCTION INCLUDING DETAILS OF ALL BENT BARS, VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING. INCLUDE PLANS, BEARING POCKETS AND ELEVATIONS AS REQUIRED TO CLEARLY SHOW ALL REINFORCING.

M–12. NEW PENETRATIONS 16" OR SMALLER THROUGH EXIST MASONRY BEARING WALLS DO NOT NEED LINTELS. PROVIDE LINTELS AS REQ'D IN EXIST MASONRY BEARING WALLS FOR NEW PENETRATIONS GREATER THAN 16" IN WIDTH.


8" OR 10" CMU LINTEL BLOCKS
(2) #5 @ 8" CMU
(2) #6 @ 12" CMU
2" CLEAR
3" TYP
6" BEARING (GROUT MIN 2 COURSES BELOW TYP)
2" CLEAR

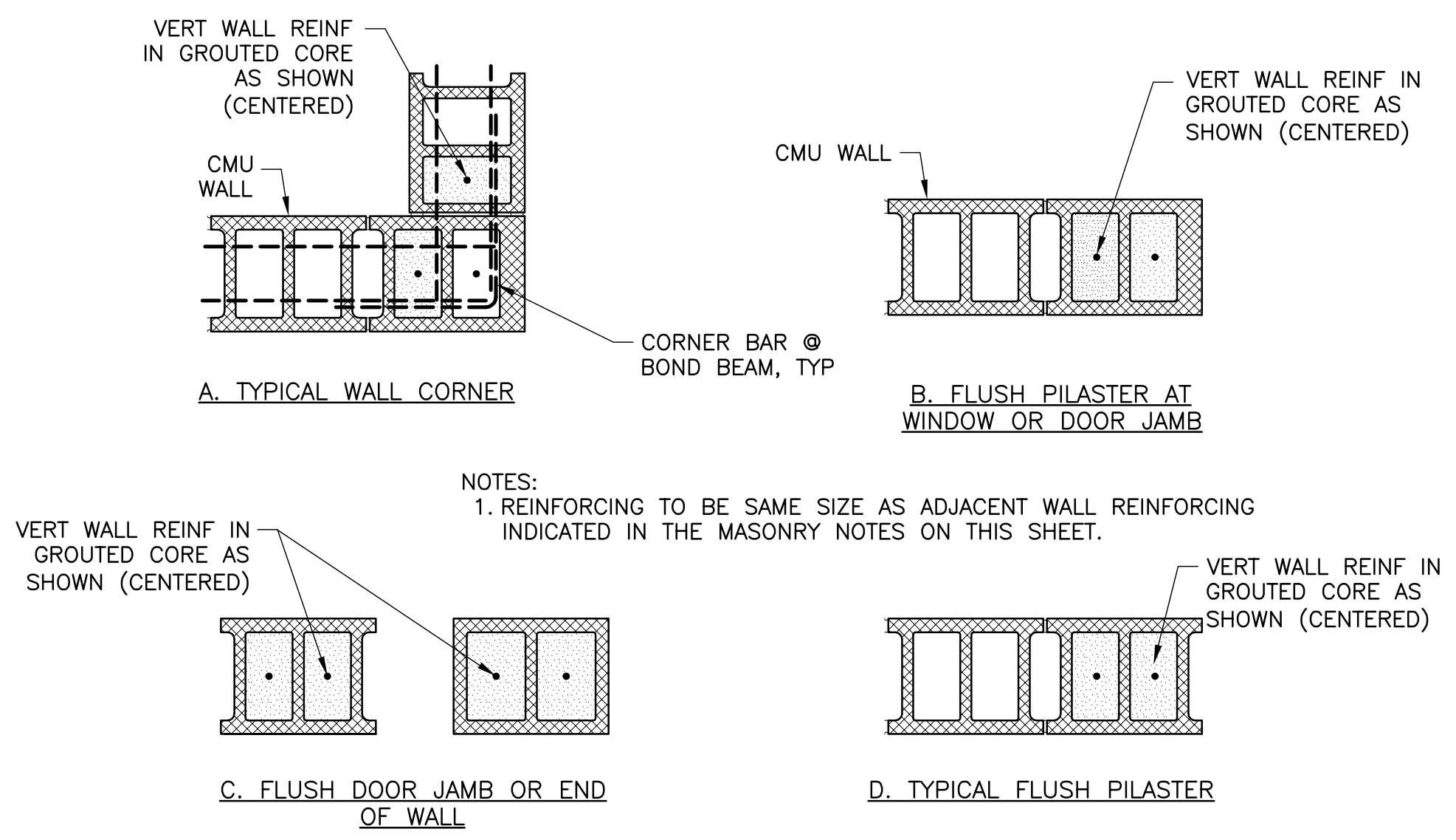
NOTES:
1. MAXIMUM SPAN FOR THIS LINTEL =6'–0"
2. SEE THIS SHEET FOR TYPICAL CMU LINTEL NOTES.

4 CMU LINTEL @ NON–BEARING
S–501 3/4"=1'–0"


LINE ONE SIDE OF CORE W/ BUILDING PAPER BEFORE FILLING CORE
CONCRETE FILL
RAKE JOINT AND CAULK

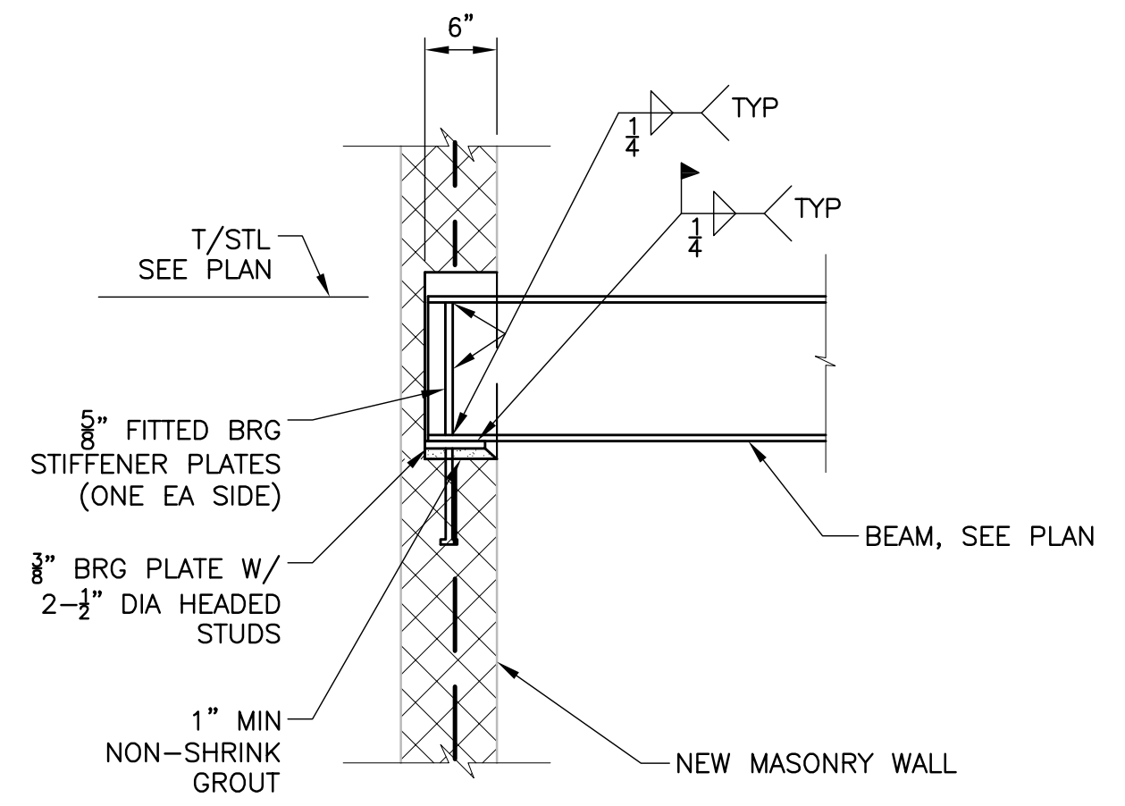
NOTES:
1. BOND BEAM REINF SHALL NOT BE LAPPED WITHIN 8'–0" OF CONTROL JOINT.
2. BOND BEAM REINF TO BE CONTINUOUS THRU CONTROL JOINT (WRAP WITH MASTIC FOR BOND BREAK)
3. ALL OTHER HORIZONTAL JOINT REINFORCEMENT TO BE DISCONTINUOUS AT CONTROL JOINTS.

5 TYP CMU CONTROL JOINT
S–501 3/4"=1'–0"


VERT WALL REINF IN GROUTED CORE AS SHOWN (CENTERED)
CMU WALL
CORNER BAR @ BOND BEAM, TYP
A. TYPICAL WALL CORNER
CMU WALL
VERT WALL REINF IN GROUTED CORE AS SHOWN (CENTERED)
B. FLUSH PILASTER AT WINDOW OR DOOR JAMB
VERT WALL REINF IN GROUTED CORE AS SHOWN (CENTERED)
C. FLUSH DOOR JAMB OR END OF WALL
VERT WALL REINF IN GROUTED CORE AS SHOWN (CENTERED)
D. TYPICAL FLUSH PILASTER

NOTES:
1. REINFORCING TO BE SAME SIZE AS ADJACENT WALL REINFORCING INDICATED IN THE MASONRY NOTES ON THIS SHEET.

6 SPECIAL MASONRY DETAILS
S–501 3/4"=1'–0"


6"
1/4
TYP
1/4
TYP
T/STL SEE PLAN
⅝" FITTED BRG STIFFENER PLATES (ONE EA SIDE)
⅜" BRG PLATE W/ 2–½" DIA HEADED STUDS
1" MIN NON–SHRINK GROUT
BEAM, SEE PLAN
NEW MASONRY WALL

NOTES:
1. INFILL BEAM POCKET SOLID AFTER BEAM INSTALLATION

7 TYPICAL BEAM POCKET
S–501 3/4"=1'–0"

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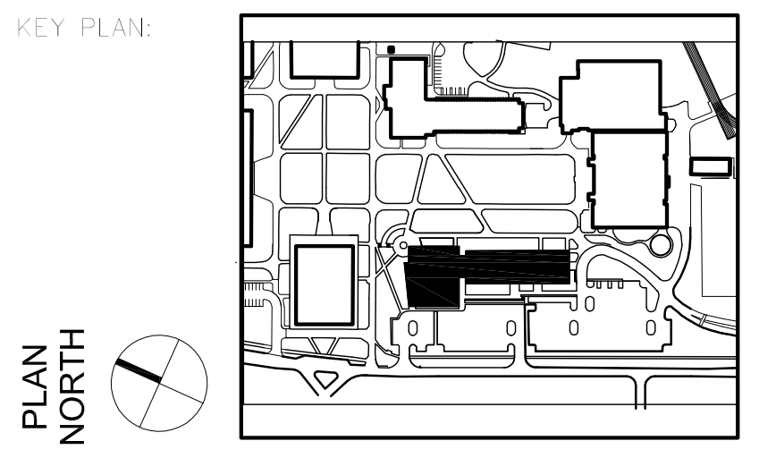
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

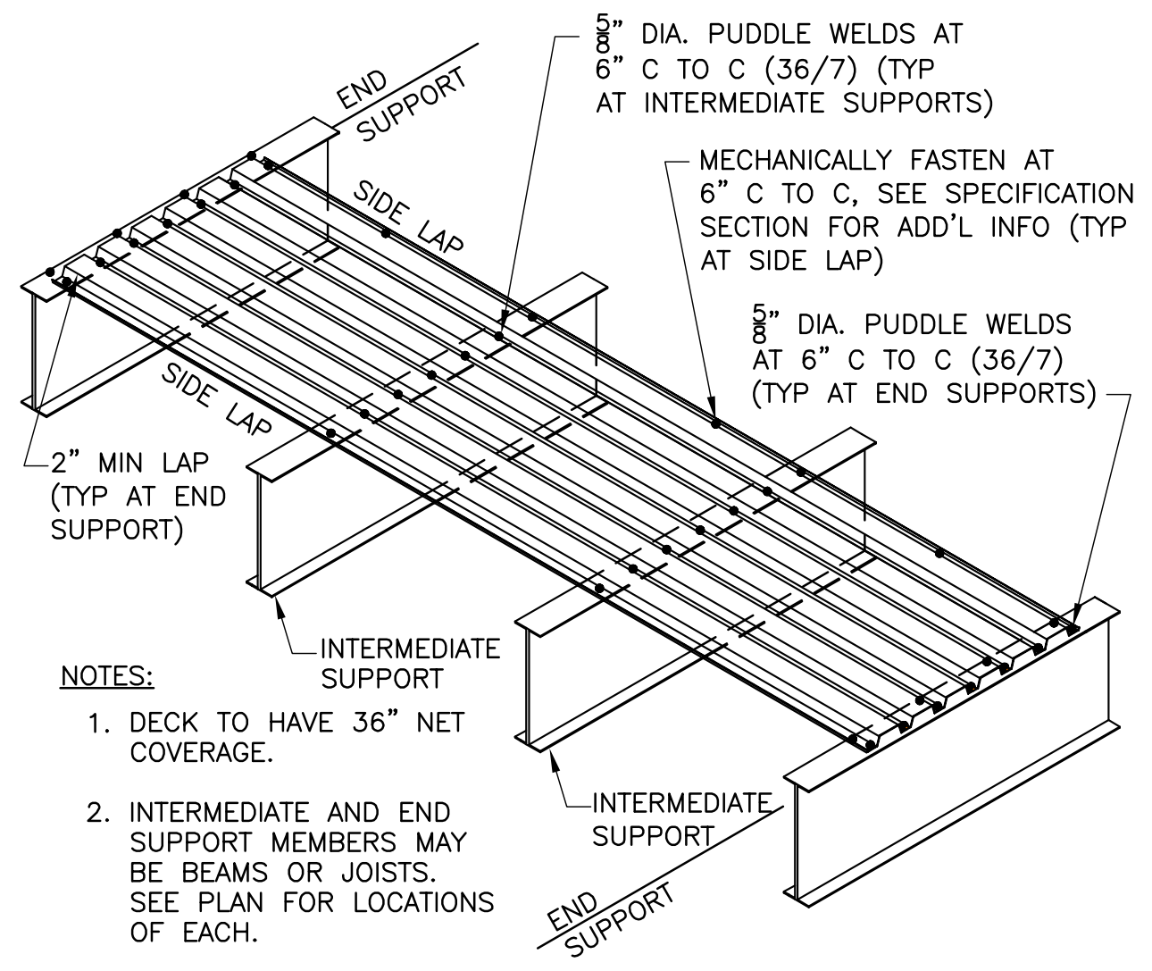
SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

MASONRY DETAILS,
LINTEL SCHEDULE AND
NOTES

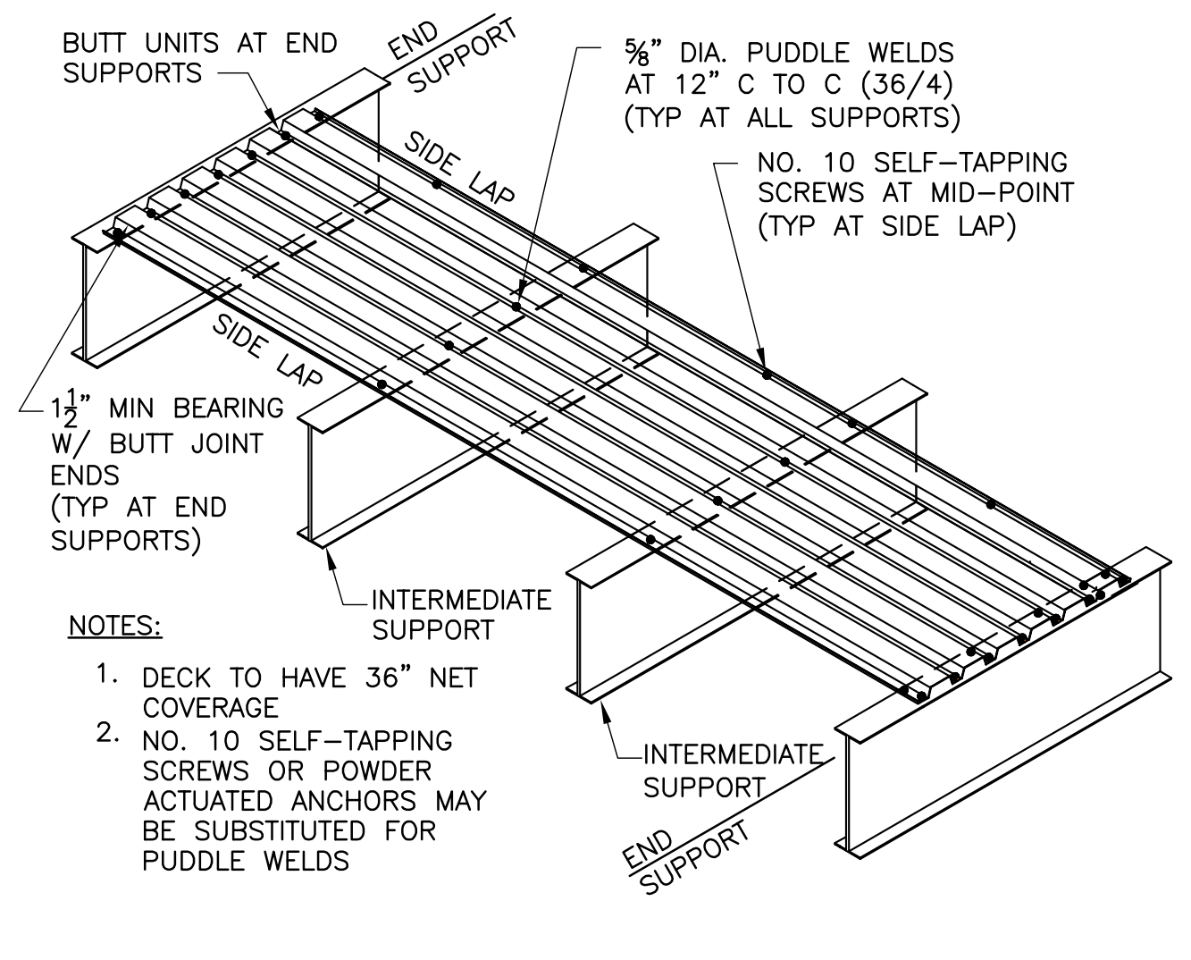
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-501


5/8" DIA. PUDDLE WELDS AT 6" C TO C (36/7) (TYP AT INTERMEDIATE SUPPORTS)
MECHANICALLY FASTEN AT 6" C TO C, SEE SPECIFICATION SECTION FOR ADD'L INFO (TYP AT SIDE LAP)
5/8" DIA. PUDDLE WELDS AT 6" C TO C (36/7) (TYP AT END SUPPORTS)
END SUPPORT
SIDE LAP
SIDE LAP
2" MIN LAP (TYP AT END SUPPORT)
INTERMEDIATE SUPPORT
INTERMEDIATE SUPPORT
END SUPPORT

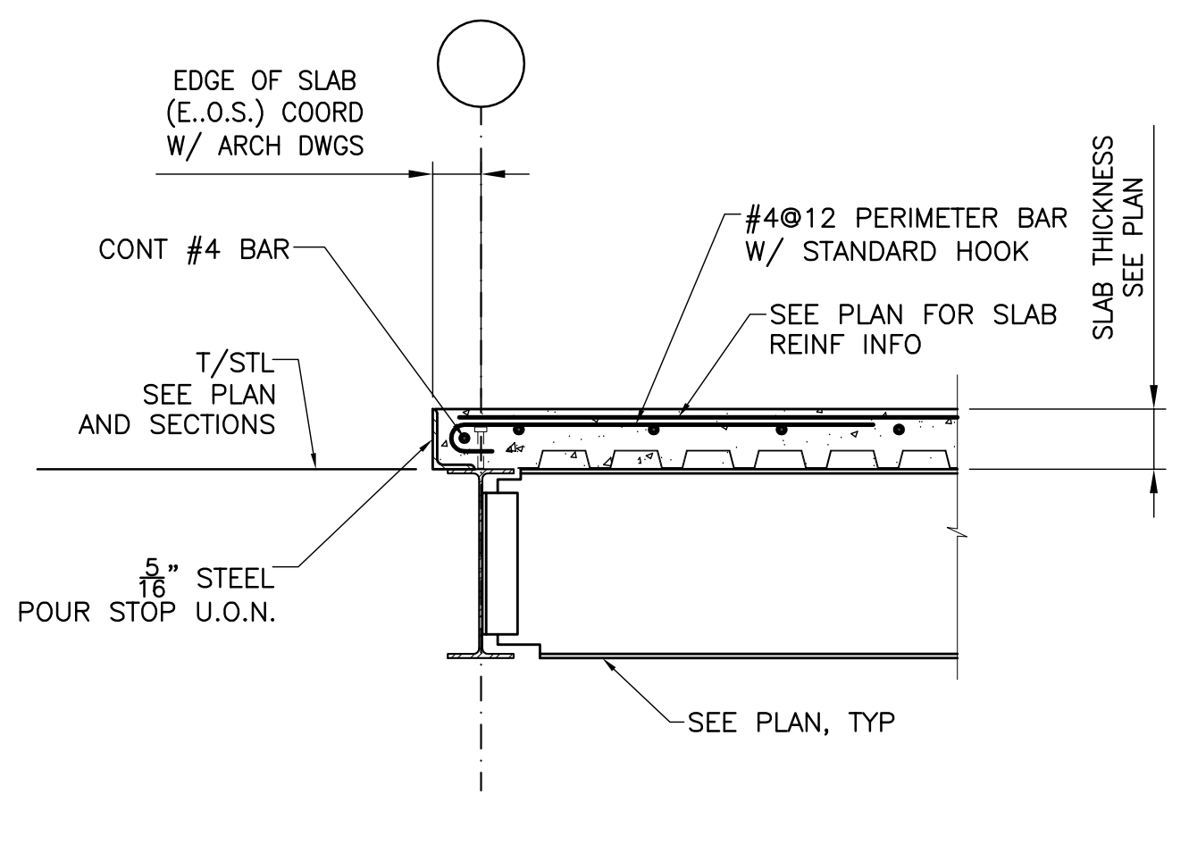
NOTES:
1. DECK TO HAVE 36" NET COVERAGE.
2. INTERMEDIATE AND END SUPPORT MEMBERS MAY BE BEAMS OR JOISTS. SEE PLAN FOR LOCATIONS OF EACH.

1 TYPICAL ROOF DECK ATTACHMENT
S-601 NTS

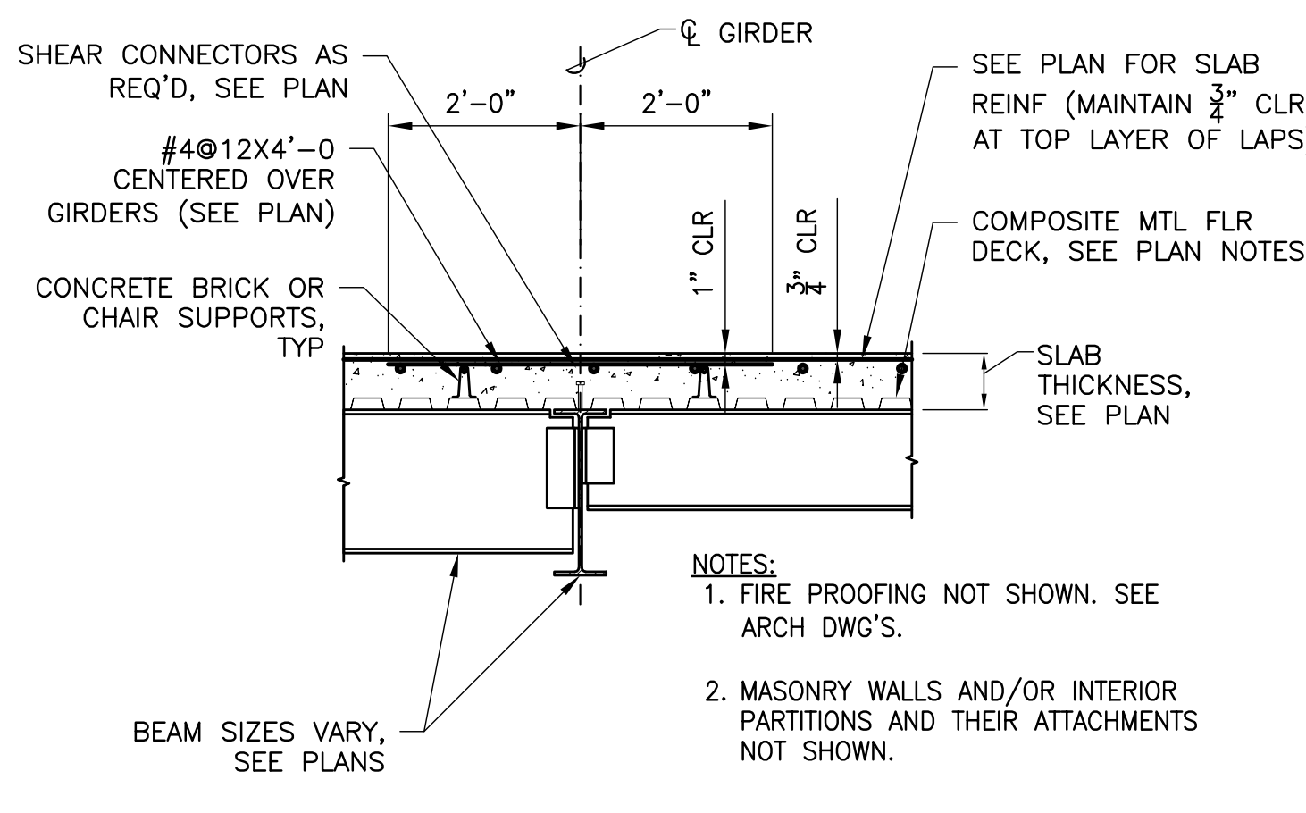

BUTT UNITS AT END SUPPORTS
END SUPPORT
5/8" DIA. PUDDLE WELDS AT 12" C TO C (36/4) (TYP AT ALL SUPPORTS)
NO. 10 SELF-TAPPING SCREWS AT MID-POINT (TYP AT SIDE LAP)
SIDE LAP
SIDE LAP
1½" MIN BEARING W/ BUTT JOINT ENDS (TYP AT END SUPPORTS)
INTERMEDIATE SUPPORT
INTERMEDIATE SUPPORT
END SUPPORT

NOTES:
1. DECK TO HAVE 36" NET COVERAGE
2. NO. 10 SELF-TAPPING SCREWS OR POWDER ACTUATED ANCHORS MAY BE SUBSTITUTED FOR PUDDLE WELDS

2 TYPICAL COMPOSITE FLOOR DECK ATTACHMENT
S-601 NTS

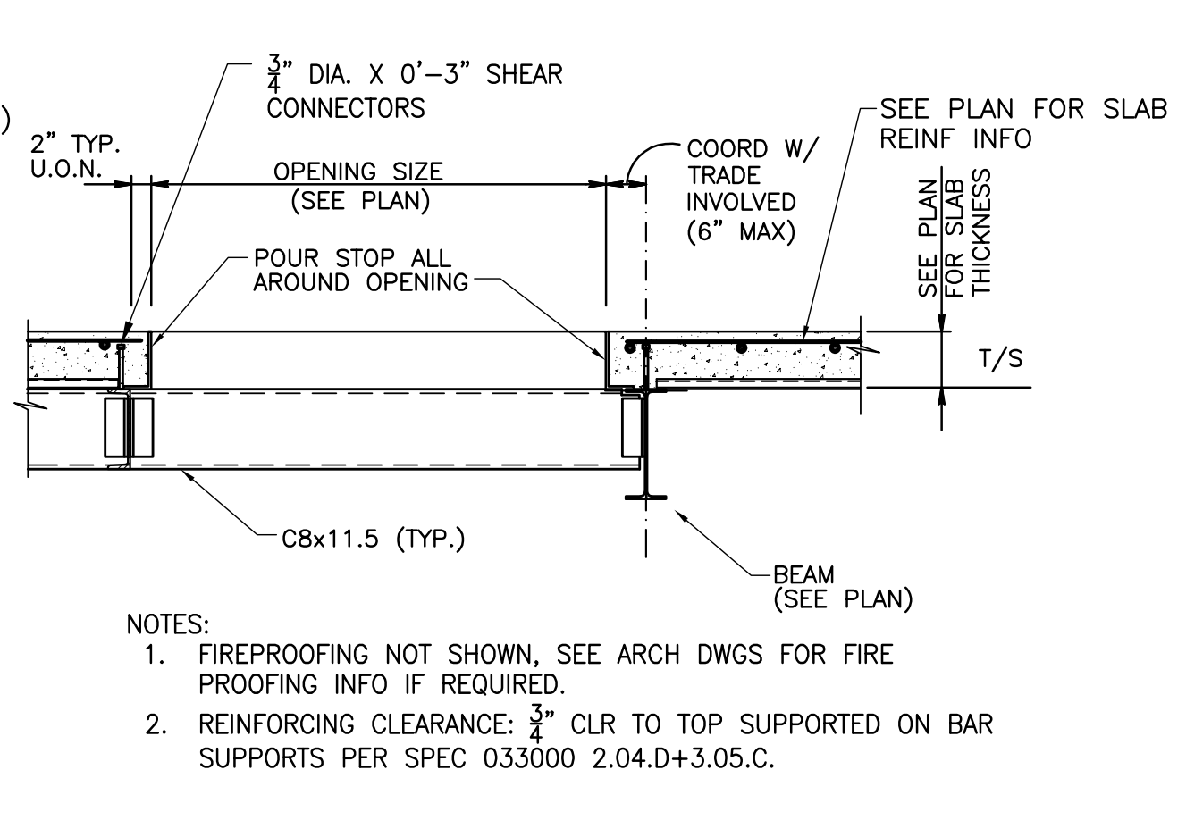

EDGE OF SLAB (E.O.S.) COORD W/ ARCH DWGS
CONT #4 BAR
#4@12 PERIMETER BAR W/ STANDARD HOOK
SEE PLAN FOR SLAB REINF INFO
SLAB THICKNESS SEE PLAN
T/STL SEE PLAN AND SECTIONS
3/8" STEEL POUR STOP U.O.N.
SEE PLAN, TYP

3 TYPICAL SLAB REINFORCING AT PERIMETER
S-601 NO SCALE


℄ GIRDER
SHEAR CONNECTORS AS REQ'D, SEE PLAN
2'-0"
2'-0"
#4@12X4'-0 CENTERED OVER GIRDERS (SEE PLAN)
CONCRETE BRICK OR CHAIR SUPPORTS, TYP
1" CLR
3/4" CLR
SEE PLAN FOR SLAB REINF (MAINTAIN 3/4" CLR AT TOP LAYER OF LAPS)
COMPOSITE MTL FLR DECK, SEE PLAN NOTES
SLAB THICKNESS, SEE PLAN
BEAM SIZES VARY, SEE PLANS

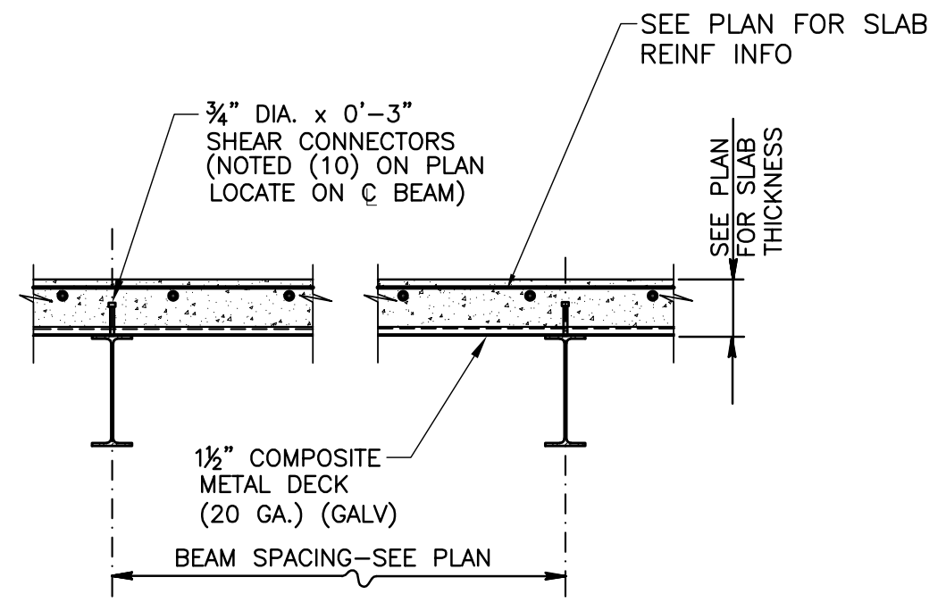
NOTES:
1. FIRE PROOFING NOT SHOWN. SEE ARCH DWG'S.
2. MASONRY WALLS AND/OR INTERIOR PARTITIONS AND THEIR ATTACHMENTS NOT SHOWN.

4 TYPICAL SLAB REINFORCING OVER GIRDERS
S-601 NTS


3/4" DIA. X 0'-3" SHEAR CONNECTORS
2" TYP. U.O.N.
OPENING SIZE (SEE PLAN)
POUR STOP ALL AROUND OPENING
COORD W/ TRADE INVOLVED (6" MAX)
SEE PLAN FOR SLAB REINF INFO
SEE PLAN FOR SLAB THICKNESS
T/S
C8x11.5 (TYP.)
BEAM (SEE PLAN)

NOTES:
1. FIREPROOFING NOT SHOWN, SEE ARCH DWGS FOR FIRE PROOFING INFO IF REQUIRED.
2. REINFORCING CLEARANCE: 3/4" CLR TO TOP SUPPORTED ON BAR SUPPORTS PER SPEC 033000 2.04.D+3.05.C.

5 TYPICAL CONCRETE FLOOR OPENING FRAME
S-601 NTS

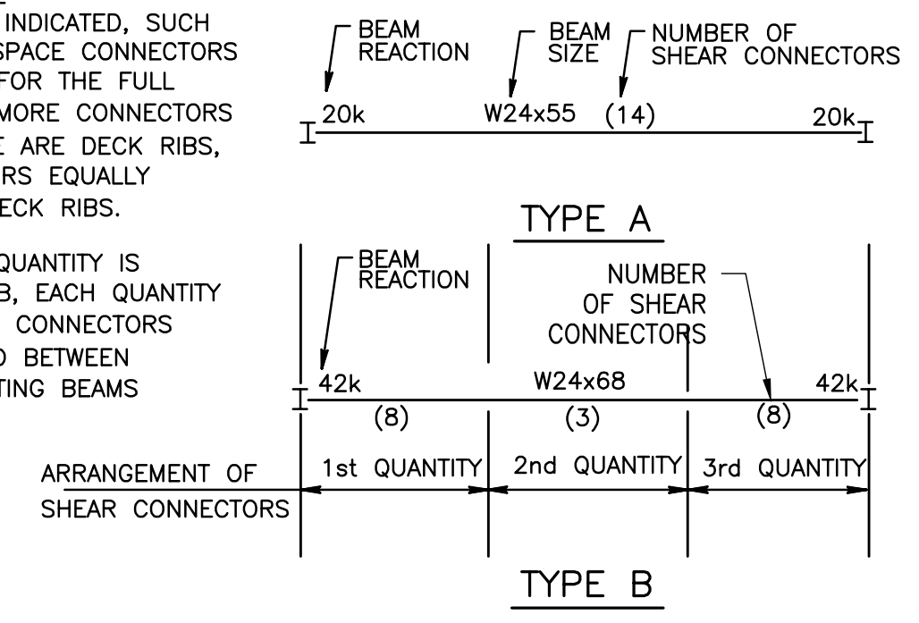

SEE PLAN FOR SLAB REINF INFO
3/4" DIA. x 0'-3" SHEAR CONNECTORS (NOTED (10) ON PLAN LOCATE ON ℄ BEAM)
SEE PLAN FOR SLAB THICKNESS
1½" COMPOSITE METAL DECK (20 GA.) (GALV)
BEAM SPACING-SEE PLAN

6 TYPICAL SECTION AT COMPOSITE BEAM
S-601 NTS

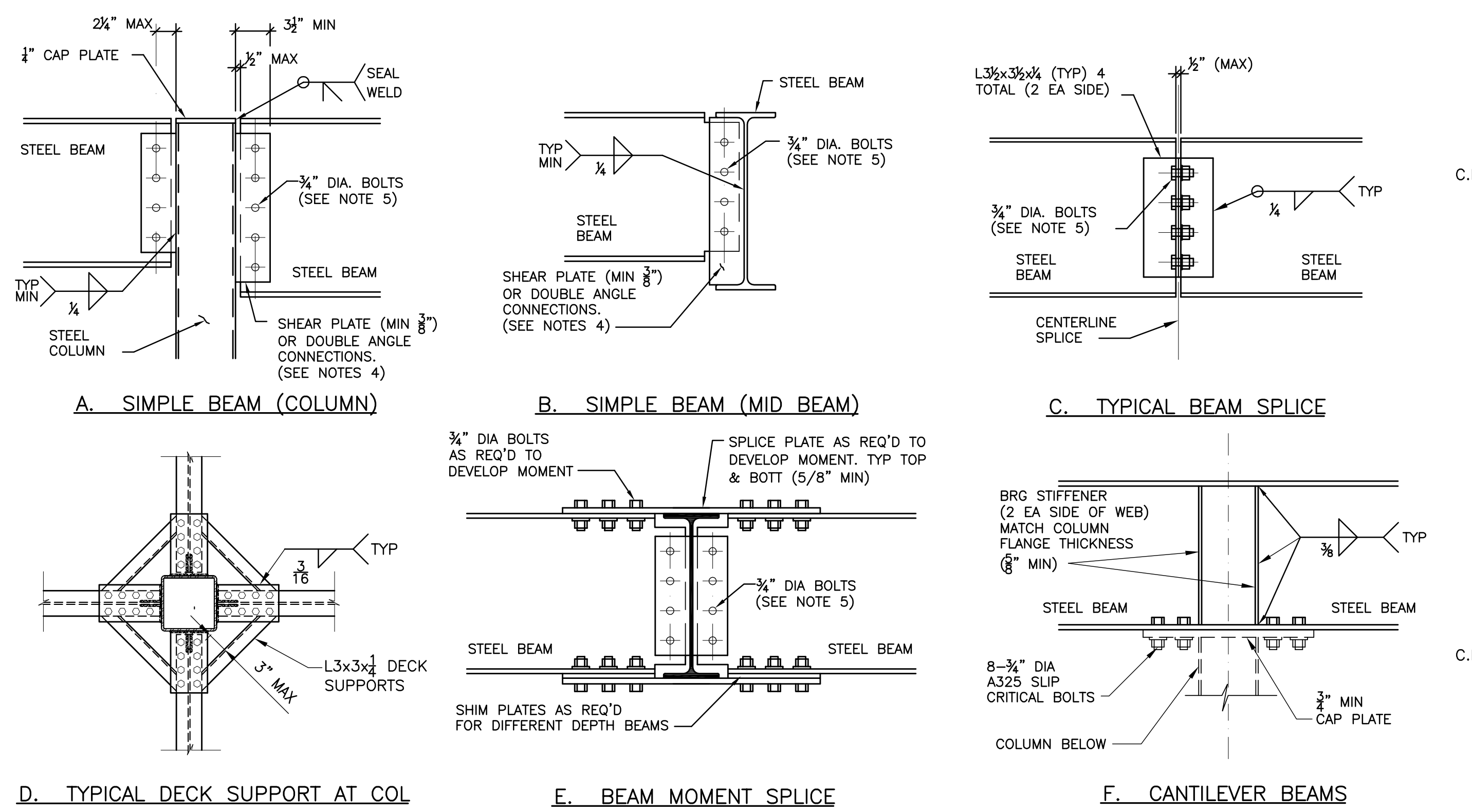
SHEAR CONNECTOR NOTES:

1) WHERE ONE QUANTITY IS INDICATED, SUCH AS INDICATED IN TYPE A, SPACE CONNECTORS UNIFORMLY IN DECK RIBS FOR THE FULL LENGTH OF BEAM. WHERE MORE CONNECTORS ARE REQUIRED THAN THERE ARE DECK RIBS, INSTALL EXCESS CONNECTORS EQUALLY SPACED DOUBLED UP IN DECK RIBS.

2) WHERE MORE THAN ONE QUANTITY IS INDICATED SUCH AS TYPE B, EACH QUANTITY INDICATES THE NUMBER OF CONNECTORS REQUIRED EQUALLY SPACED BETWEEN CENTERLINES OF INTERSECTING BEAMS


BEAM REACTION
BEAM SIZE
NUMBER OF SHEAR CONNECTORS
20k
W24x55
(14)
20k
TYPE A
BEAM REACTION
NUMBER OF SHEAR CONNECTORS
42k
W24x68
42k
(8)
(3)
(8)
ARRANGEMENT OF SHEAR CONNECTORS
1st QUANTITY
2nd QUANTITY
3rd QUANTITY
TYPE B

7 COMPOSITE BEAM NOMENCLATURE
S-601 NTS

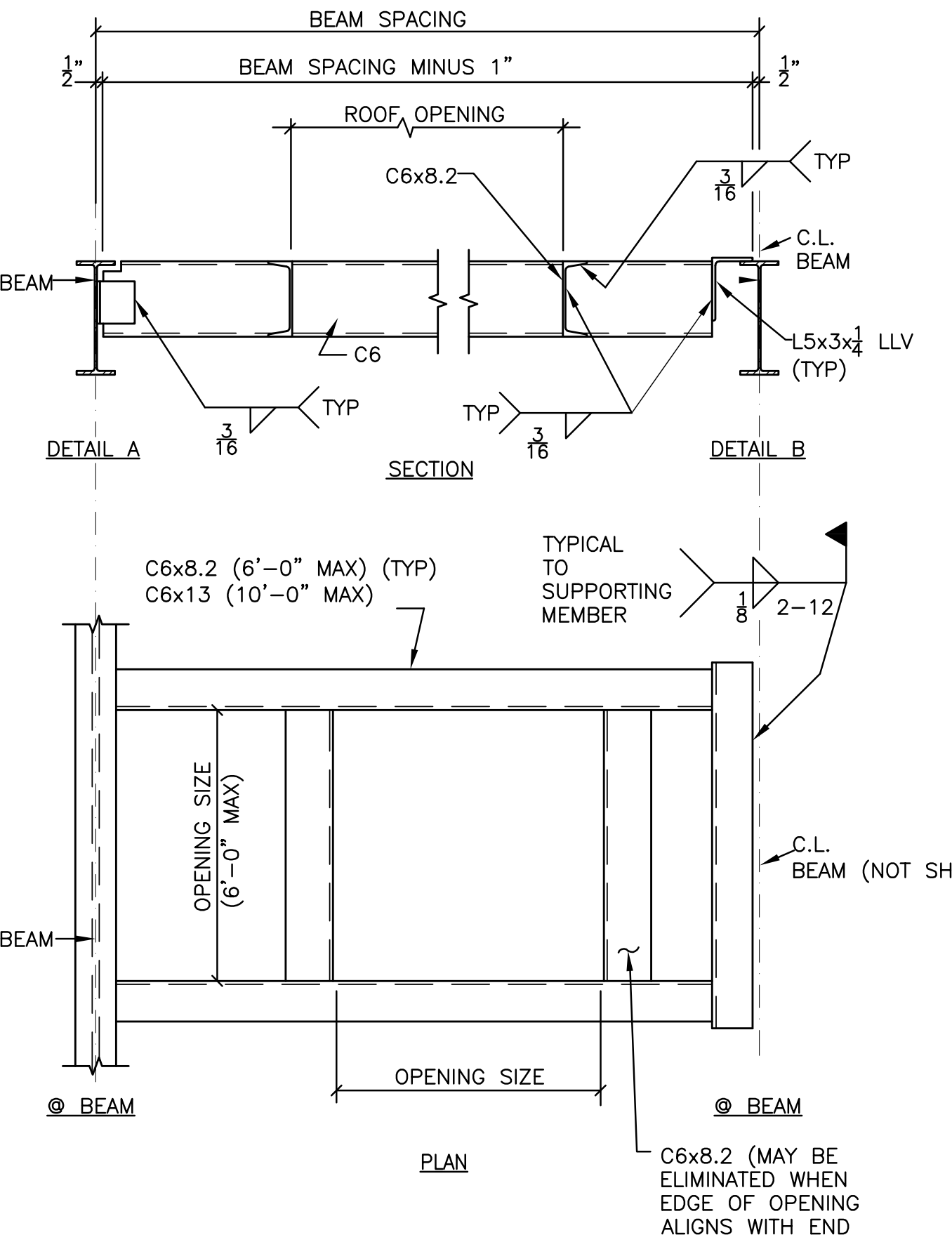

2¼" MAX
3½" MIN
1/4" CAP PLATE
1/2" MAX
SEAL WELD
STEEL BEAM
3/4" DIA. BOLTS (SEE NOTE 5)
STEEL BEAM
TYP MIN
STEEL COLUMN
SHEAR PLATE (MIN 3/8") OR DOUBLE ANGLE CONNECTIONS. (SEE NOTES 4)
STEEL BEAM
3/4" DIA. BOLTS (SEE NOTE 5)
STEEL BEAM
SHEAR PLATE (MIN 3/8") OR DOUBLE ANGLE CONNECTIONS. (SEE NOTES 4)
L3x3x1/4 (TYP) 4 TOTAL (2 EA SIDE)
1/2" (MAX)
3/4" DIA. BOLTS (SEE NOTE 5)
STEEL BEAM
STEEL BEAM
CENTERLINE SPLICE
3/4" DIA BOLTS AS REQ'D TO DEVELOP MOMENT
SPLICE PLATE AS REQ'D TO DEVELOP MOMENT. TYP TOP & BOTT (5/8" MIN)
3/4" DIA BOLTS (SEE NOTE 5)
STEEL BEAM
STEEL BEAM
SHIM PLATES AS REQ'D FOR DIFFERENT DEPTH BEAMS
L3x3x1/4 DECK SUPPORTS
3" MAX
BRG STIFFENER (2 EA SIDE OF WEB) MATCH COLUMN FLANGE THICKNESS (3/8" MIN)
STEEL BEAM
STEEL BEAM
8-3/4" DIA A325 SLIP CRITICAL BOLTS
COLUMN BELOW
3/4" MIN CAP PLATE

A. SIMPLE BEAM (COLUMN) B. SIMPLE BEAM (MID BEAM) C. TYPICAL BEAM SPLICE

D. TYPICAL DECK SUPPORT AT COL E. BEAM MOMENT SPLICE F. CANTILEVER BEAMS

NOTES:
1. INTENT OF THESE DETAILS IS TO PROVIDE TYPICAL FRAMING INFORMATION FOR CONDITIONS NOT SPECIFICALLY COVERED BY SPECIFIC SECTIONS OR DETAILS ELSEWHERE. (SOME DETAILS MAY NOT APPLY).
2. EXTEND DEEPER BEAM OVER TOP OF COLUMNS AND FRAME OTHER MEMBERS INTO IT UNLESS OTHERWISE NOTED.
3. AT CORNERS OR END WALLS USE 2 BOLTS AND EXTEND BEAM AND CAP PLATE 1/2" BEYOND EXTERIOR FACE OF COLUMN.
4. SHEAR PLATES WELDED TO WEB OF BEAM TO BE 5/8" THICK FOR W27 BEAMS AND LARGER.
5. DESIGN CONNECTIONS IN ACCORDANCE WITH AISC FOR REACTIONS INDICATED ON PLANS UNLESS OTHERWISE NOTED. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL BE DESIGNED FOR 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD ON THE SPAN PER THE LATEST EDITION OF THE AISC MANUAL OR 6 kips, WHICHEVER IS LARGER, U.O.N.

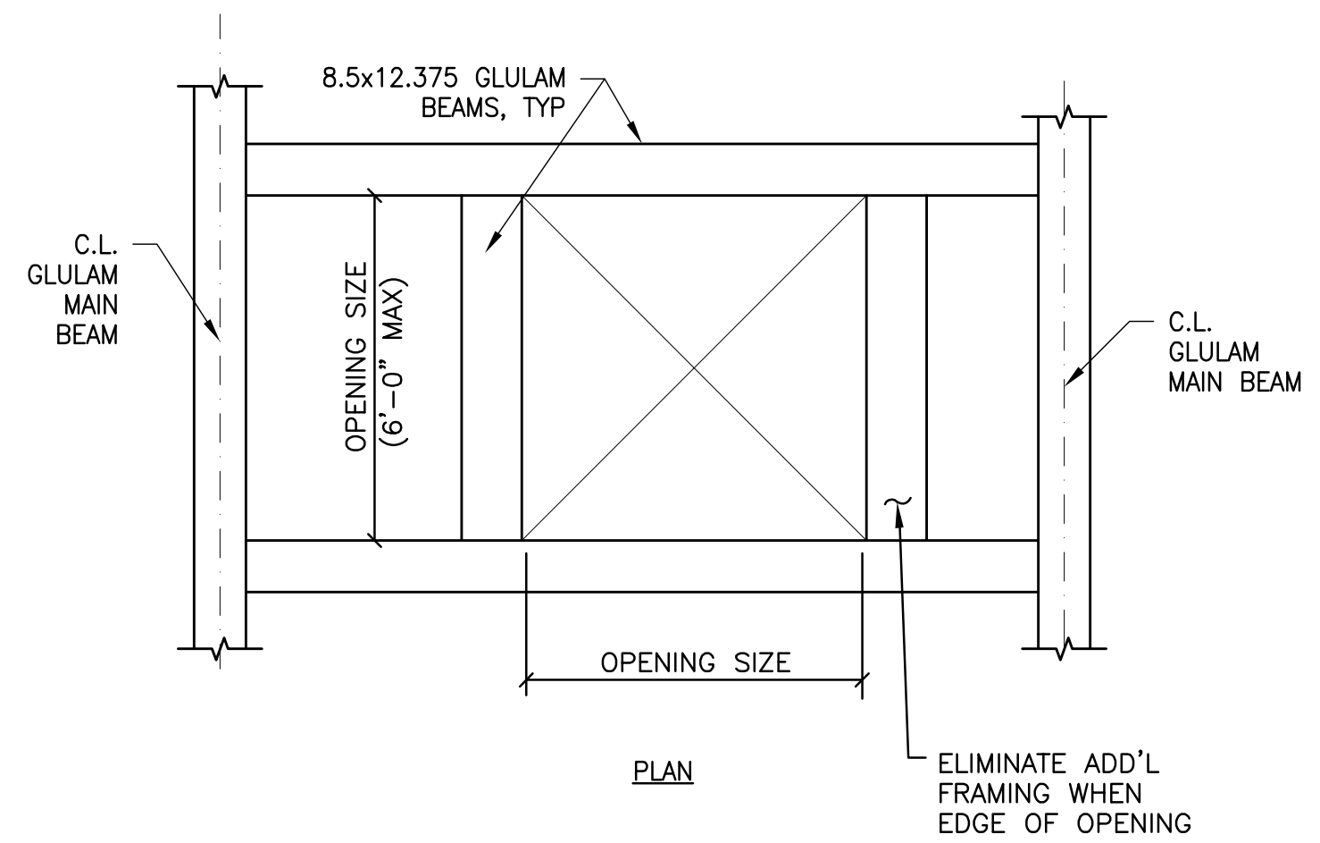
8 TYPICAL FRAMING CONNECTIONS
S-601 NO SCALE


BEAM SPACING
BEAM SPACING MINUS 1"
1/2"
1/2"
ROOF OPENING
C6x8.2
C.L. BEAM
C.L. BEAM
C6
L5x3x1/4 LLV (TYP)
TYP
DETAIL A
SECTION
DETAIL B
C6x8.2 (6'-0" MAX) (TYP)
C6x13 (10'-0" MAX)
TYPICAL TO SUPPORTING MEMBER
2-12
OPENING SIZE (6'-0" MAX)
C.L. BEAM (NOT SHOWN)
C.L. BEAM
OPENING SIZE
@ BEAM
@ BEAM
PLAN
C6x8.2 (MAY BE ELIMINATED WHEN EDGE OF OPENING ALIGNS WITH END C6) TYP

NOTE:
1. PROVIDE SUPPLEMENT FRAMING FOR ALL ROOF AND FLOOR OPENINGS. COORD SIZE AND LOCATIONS W/ APPROVED EQUIPMENT SHOP DWG'S AND TRADES INVOLVED.
2. AT CONTRACTORS OPTION, DETAIL A OR DETAIL B MAY BE USED FOR NEW ROOF OPENINGS TO SUIT FABRICATORS DETAILING PREFERENCE.

SHED BLDG

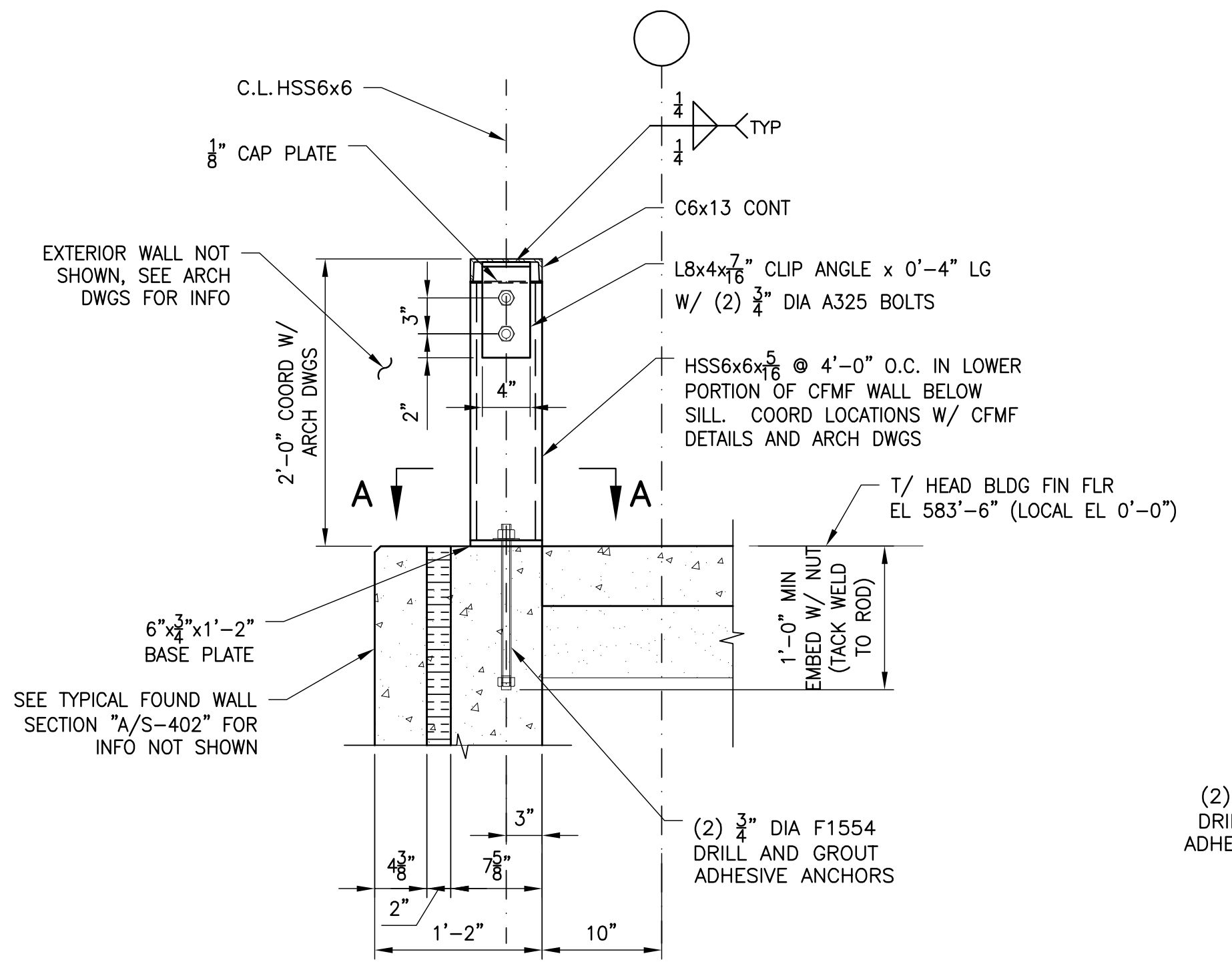
9 TYPICAL ROOF OPENING FRAME
S-601 NO SCALE


8.5x12.375 GLULAM BEAMS, TYP
C.L. GLULAM MAIN BEAM
C.L. GLULAM MAIN BEAM
OPENING SIZE (6'-0" MAX)
OPENING SIZE
PLAN
ELIMINATE ADD'L FRAMING WHEN EDGE OF OPENING ALIGNS WITH EDGE OF GLULAM MAIN FLOOR BEAM

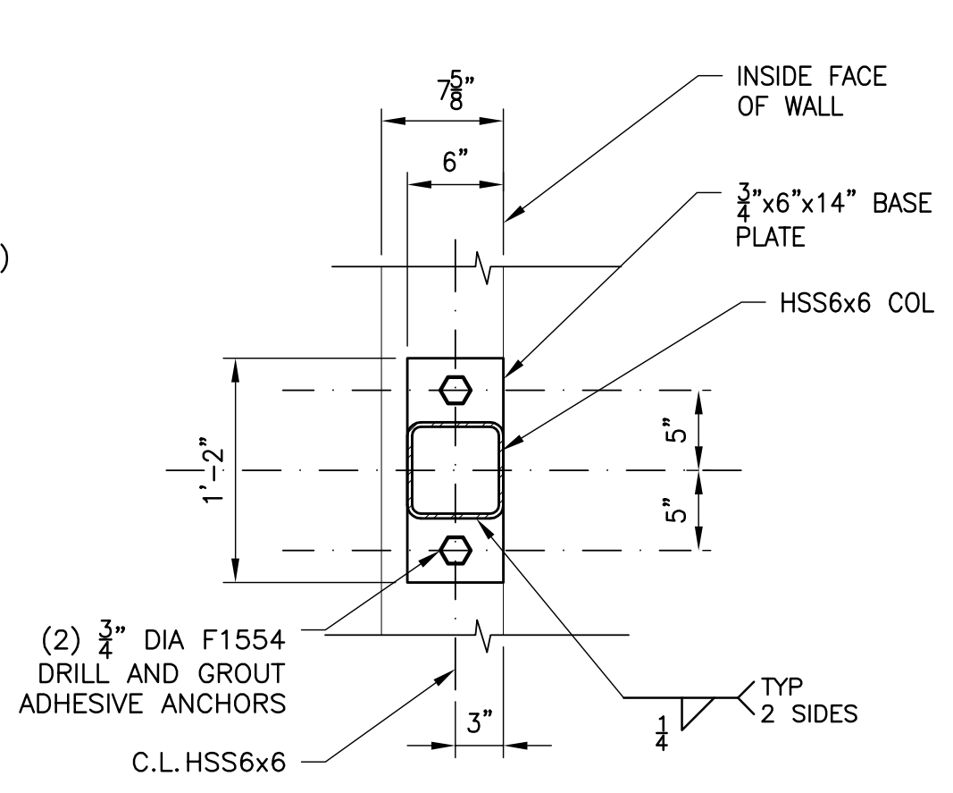
NOTE:
1. PROVIDE SUPPLEMENT FRAMING FOR ALL ROOF AND FLOOR OPENINGS. COORD SIZE AND LOCATIONS W/ APPROVED EQUIPMENT SHOP DWG'S AND TRADES INVOLVED

HEAD BLDG

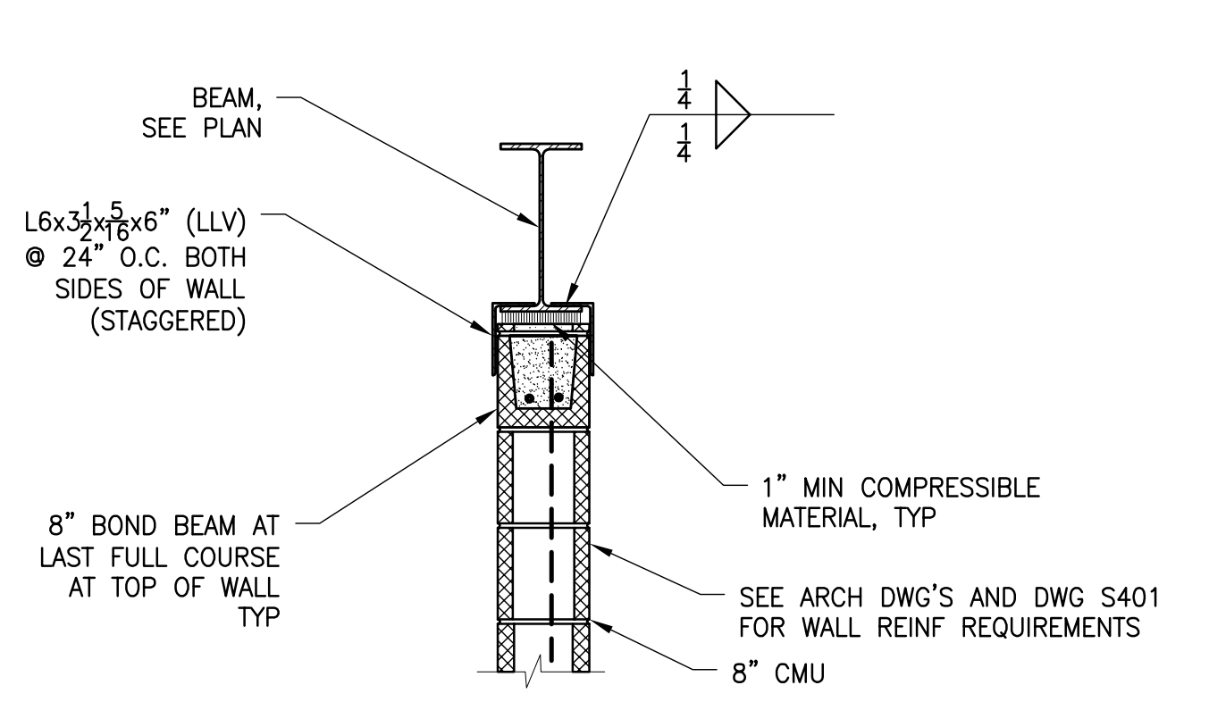
15 TYPICAL FLOOR AND ROOF OPENING FRAME
S-601 NO SCALE


C.L.HSS6x6
3/8" CAP PLATE
TYP
C6x13 CONT
L8x4x5/8" CLIP ANGLE x 0'-4" LG W/ (2) 3/4" DIA A325 BOLTS
HSS6x6x5/8 @ 4'-0" O.C. IN LOWER PORTION OF CFMF WALL BELOW SILL. COORD LOCATIONS W/ CFMF DETAILS AND ARCH DWGS
EXTERIOR WALL NOT SHOWN, SEE ARCH DWGS FOR INFO
2'-0" COORD W/ ARCH DWGS
A
A
T/ HEAD BLDG FIN FLR EL 583'-6" (LOCAL EL 0'-0")
6"x3/4"x1'-2" BASE PLATE
1'-0" MIN EMBED W/ NUT (TACK WELD TO ROD)
SEE TYPICAL FOUND WALL SECTION "A/S-402" FOR INFO NOT SHOWN
(2) 3/4" DIA F1554 DRILL AND GROUT ADHESIVE ANCHORS
3"
2"
1'-2"
10"

10 CFMF SILL DETAIL – HEAD BLDG
S-601 1"=1'-0"

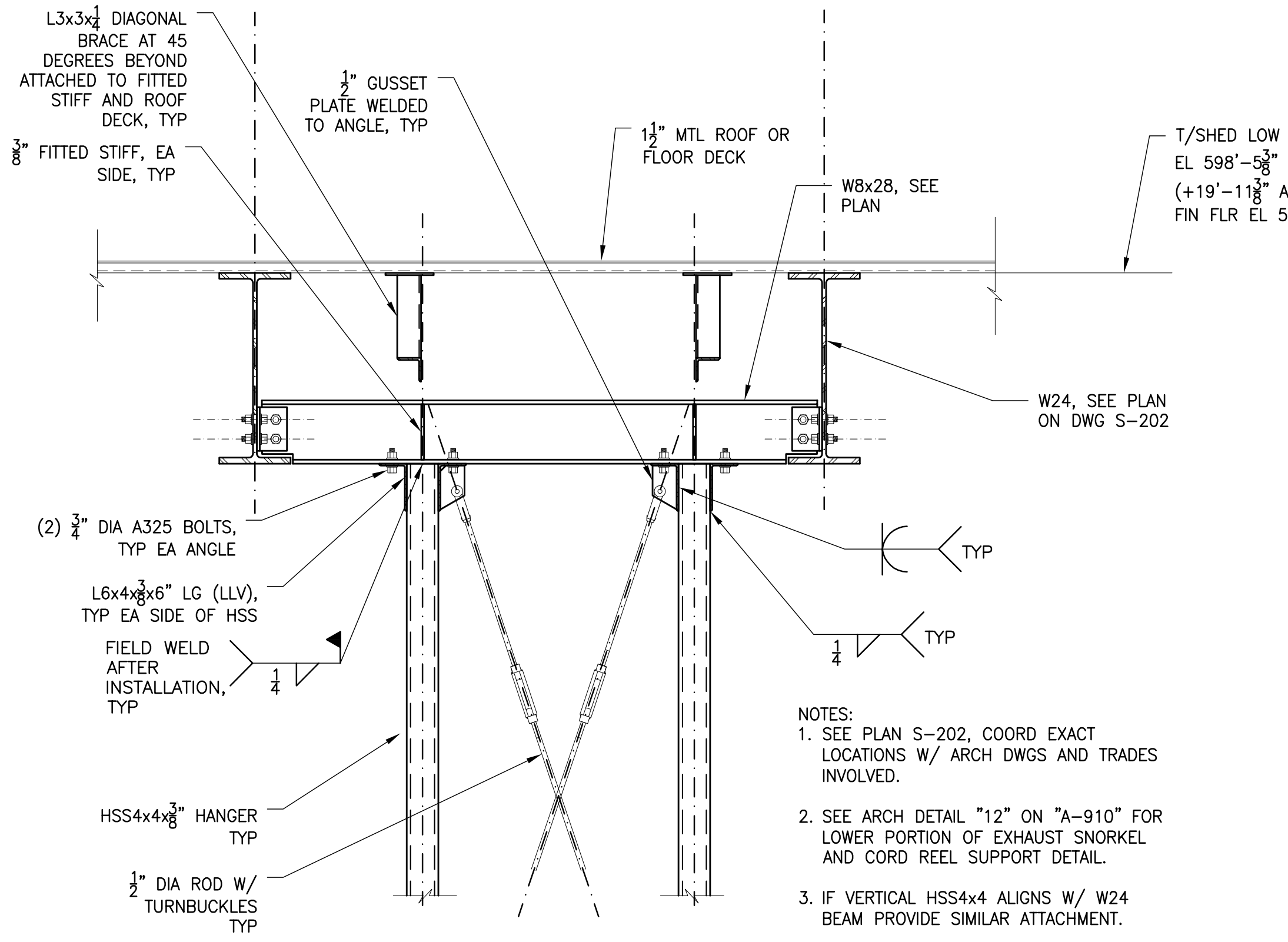

7/8"
6"
INSIDE FACE OF WALL
3/4"x6"x14" BASE PLATE
HSS6x6 COL
1'-2"
5"
5"
(2) 3/4" DIA F1554 DRILL AND GROUT ADHESIVE ANCHORS
3"
TYP 2 SIDES
C.L.HSS6x6

SECTION A–A


BEAM, SEE PLAN
L6x3½x5/16x6" (LLV) @ 24" O.C. BOTH SIDES OF WALL (STAGGERED)
8" BOND BEAM AT LAST FULL COURSE AT TOP OF WALL TYP
1" MIN COMPRESSIBLE MATERIAL, TYP
SEE ARCH DWG'S AND DWG S401 FOR WALL REINF REQUIREMENTS
8" CMU

11 TYP CMU WALL BRACE AT BEAM
S-601 3/4"=1'-0"

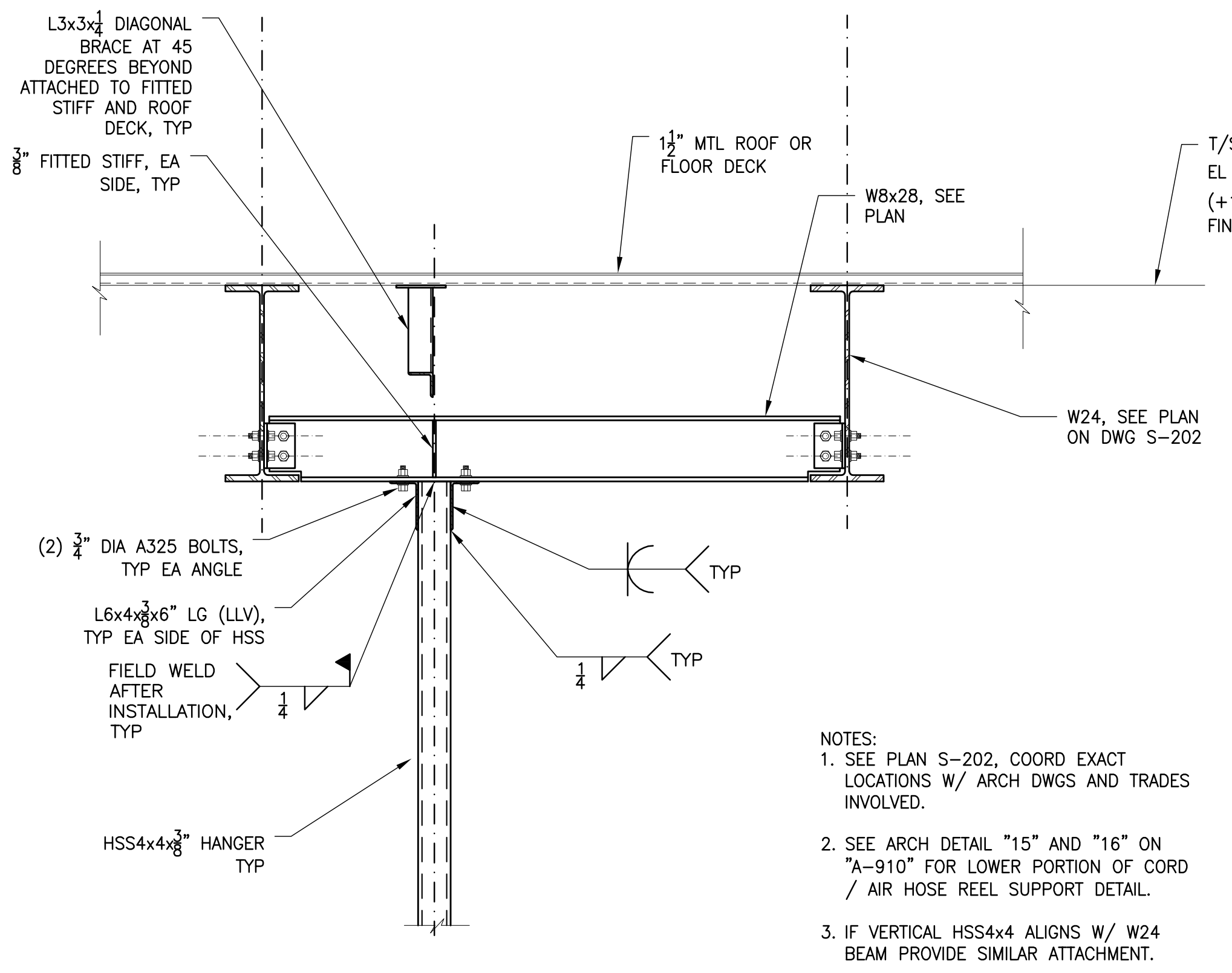
CLARIFICATION:
1. THE DETAIL APPLIES TO ALL LOCATIONS IN HEAD BUILDING BELOW THE SILL OF THE WINDOW OPENINGS WITH CFMF EXTERIOR WALL CONSTRUCTION WHERE THE CFMF IS NOT FULL HEIGHT. THE HSS POSTS @ 4'-0" O.C. ARE LOCATED WITHIN THE 6" CFMF EXTERIOR WALL CONSTRUCTION AND FIT IN-BETWEEN THE TYPICAL CFMF STUDS. THE LOCATIONS WHERE THE DETAIL APPLIES SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.


L3x3x1/4 DIAGONAL BRACE AT 45 DEGREES BEYOND ATTACHED TO FITTED STIFF AND ROOF DECK, TYP
1/2" GUSSET PLATE WELDED TO ANGLE, TYP
3/8" FITTED STIFF, EA SIDE, TYP
1½" MTL ROOF OR FLOOR DECK
W8x28, SEE PLAN
T/SHED LOW ROOF STL EL 598'-5 3/8" (+19'-11 3/8" ABOVE SHED FIN FLR EL 578'-6")
W24, SEE PLAN ON DWG S-202
(2) 3/4" DIA A325 BOLTS, TYP EA ANGLE
L6x4x5/8x6" LG (LLV), TYP EA SIDE OF HSS
FIELD WELD AFTER INSTALLATION, TYP
HSS4x4x3/8 HANGER TYP
3/4" DIA ROD W/ TURNBUCKLES TYP
TYP
TYP

NOTES:
1. SEE PLAN S-202, COORD EXACT LOCATIONS W/ ARCH DWGS AND TRADES INVOLVED.
2. SEE ARCH DETAIL "12" ON "A-910" FOR LOWER PORTION OF EXHAUST SNORKEL AND CORD REEL SUPPORT DETAIL.
3. IF VERTICAL HSS4x4 ALIGNS W/ W24 BEAM PROVIDE SIMILAR ATTACHMENT.

12A TYP HANGER FOR EXHAUST SNORKEL AND CORD REEL SUPPORT DETAIL – SHED BLDG
S-601 3/4"=1'-0"

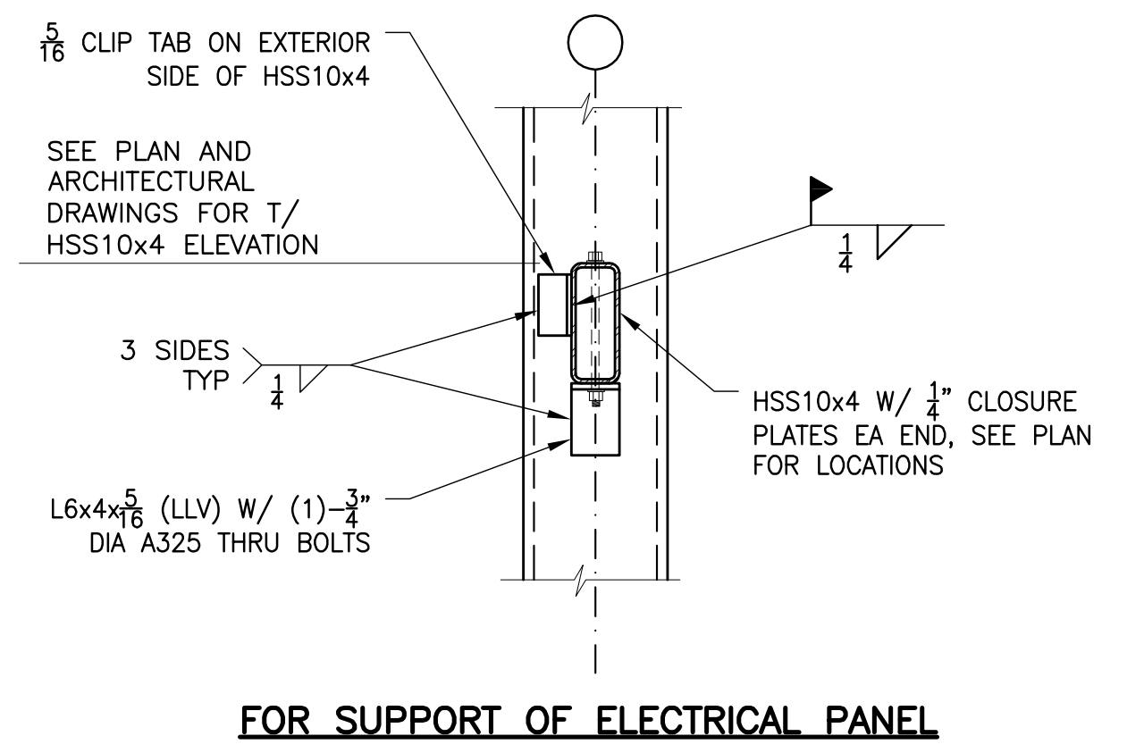
SEE ARCH DWGS FOR TYPICAL DETAIL AT HEAD BUILDING


L3x3x1/4 DIAGONAL BRACE AT 45 DEGREES BEYOND ATTACHED TO FITTED STIFF AND ROOF DECK, TYP
3/8" FITTED STIFF, EA SIDE, TYP
1½" MTL ROOF OR FLOOR DECK
W8x28, SEE PLAN
T/SHED LOW ROOF STL EL 598'-5 3/8" (+19'-11 3/8" ABOVE SHED FIN FLR EL 578'-6")
W24, SEE PLAN ON DWG S-202
(2) 3/4" DIA A325 BOLTS, TYP EA ANGLE
L6x4x5/8x6" LG (LLV), TYP EA SIDE OF HSS
FIELD WELD AFTER INSTALLATION, TYP
HSS4x4x3/8 HANGER TYP
TYP
TYP

NOTES:
1. SEE PLAN S-202, COORD EXACT LOCATIONS W/ ARCH DWGS AND TRADES INVOLVED.
2. SEE ARCH DETAIL "15" AND "16" ON "A-910" FOR LOWER PORTION OF CORD / AIR HOSE REEL SUPPORT DETAIL.
3. IF VERTICAL HSS4x4 ALIGNS W/ W24 BEAM PROVIDE SIMILAR ATTACHMENT.

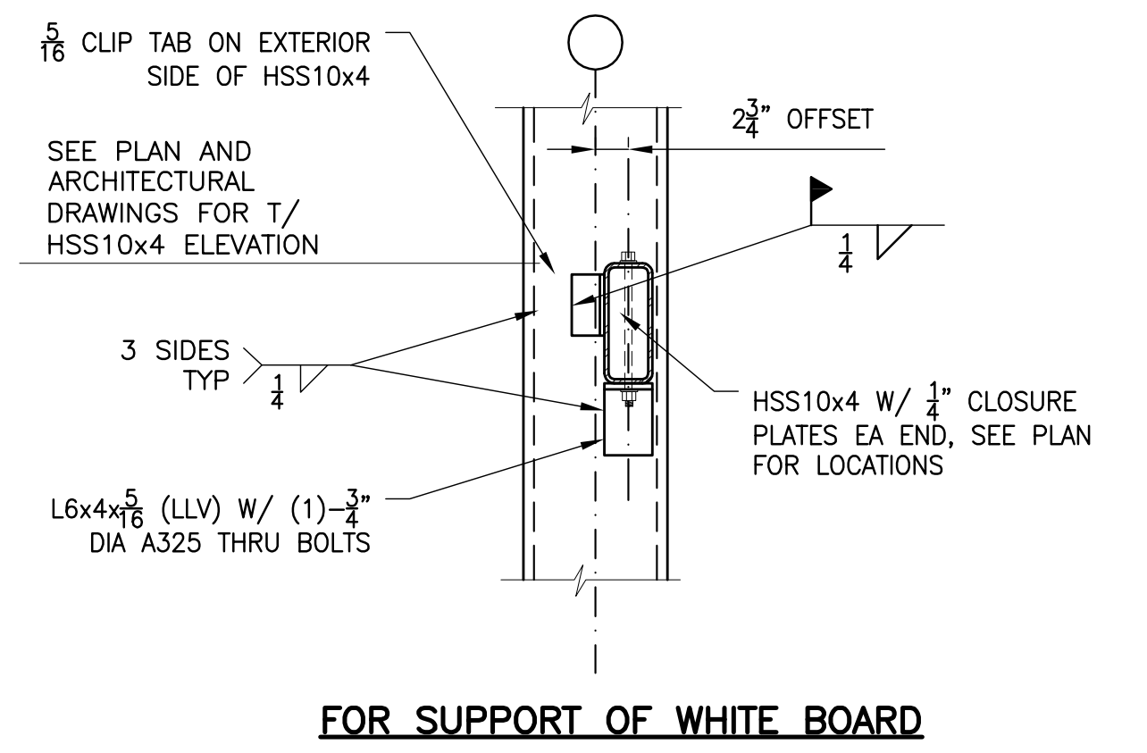
12B TYP HANGER FOR CORD / AIR HOSE REEL SUPPORT DETAIL – SHED BLDG
S-601 3/4"=1'-0"

SEE ARCH DWGS FOR TYPICAL DETAIL AT HEAD BUILDING


3/8 CLIP TAB ON EXTERIOR SIDE OF HSS10x4
SEE PLAN AND ARCHITECTURAL DRAWINGS FOR T/ HSS10x4 ELEVATION
3 SIDES TYP
L6x4x5/8 (LLV) W/ (1)-3/4" DIA A325 THRU BOLTS
HSS10x4 W/ 1/4" CLOSURE PLATES EA END, SEE PLAN FOR LOCATIONS

FOR SUPPORT OF ELECTRICAL PANEL

13 TYP CONN HSS BEAM TO HSS COL
S-601 3/4"=1'-0"


3/8 CLIP TAB ON EXTERIOR SIDE OF HSS10x4
2 3/4" OFFSET
SEE PLAN AND ARCHITECTURAL DRAWINGS FOR T/ HSS10x4 ELEVATION
3 SIDES TYP
L6x4x5/8 (LLV) W/ (1)-3/4" DIA A325 THRU BOLTS
HSS10x4 W/ 1/4" CLOSURE PLATES EA END, SEE PLAN FOR LOCATIONS

FOR SUPPORT OF WHITE BOARD

14 TYP CONN HSS BEAM TO HSS COL
S-601 3/4"=1'-0"

DESIGN PARAMETERS – SHED BUILDING AND CONNECTING LINK

D-1 REFERENCE BUILDING CODE: 2020 BUILDING CODE OF NEW YORK STATE (BCNYS) NOVEMBER 2019

D-2 LIVE LOADS:
- a) ROOF LIVE LOAD = 20 PSF
- b) FLOORS:
  - 1. SLABS ON GRADE = 100 PSF
  - 2. PENTHOUSE FLOOR SLAB = 200 PSF

D-3 ROOF SNOW LOAD:
- a) GROUND SNOW LOAD (Pg) = 60 PSF
- b) FLAT-ROOF SNOW LOAD @ HEATED SPACE (Pf) = 46.2 PSF (PLUS DRIFTED SNOW)
- c) SNOW EXPOSURE FACTOR (Ce) = 1.0
- d) SNOW IMPORTANCE FACTOR (Is) = 1.1
- e) THERMAL FACTOR @ HEATED SPACE (Ct) = 1.0
- f) RISK CATEGORY III (BCNYS REFERENCE CODE TABLE 1604.5/ASCE 7-16
- g.1) SNOW DRIFT SURCHARGE (Pd) – SHED BLDG = 60 PSF WITH A TRIANGULAR DISTRIBUTION OVER 11'-0" ONTO THE LOW ROOF, SUPERIMPOSED ON THE FLAT-ROOF BALANCED SNOW LOAD (Pf) PER ASCE 7-16, APPLICABLE FOR THE LOW ROOF AFFECTED BY THE HIGHER ROOF.
- g.2) SNOW DRIFT SURCHARGE (Pd) – CONNECTING LINK = 100 PSF WITH A UNIFORM DISTRIBUTION OVER THE ENTIRE AREA OF THE CONNECTING LINK ROOF, SUPERIMPOSED ON THE FLAT-ROOF BALANCED SNOW LOAD (Pf) PER ASCE 7-16, APPLICABLE FOR THE LOWER ROOF AFFECTED BY THE HIGH ROOF.
- h) ROOF DESIGN SNOW LOAD (BALANCED SNOW) = 46.2 PSF

D-4 WIND LOAD
- a) WIND SPEED (3-SECOND GUST),
  V = 120 MPH (BASIC WIND SPEED, BCNYS FIGURE 1609.3 (2), RISK CATEGORY III)
  V ASD = 93 MPH (BCNYS TABLE 1609.3.1 AND EQUATION 16-33)
- b) RISK CATEGORY III (BCNYS TABLE 1604.5/ASCE 7-16)
- c) WIND EXPOSURE CATEGORY B
- d) INTERNAL PRESSURE COEFFICIENT (GCpi) = +/- 0.18
- e) COMPONENTS AND CLADDING: POSITIVE (+) = INWARD PRESSURE
  NEGATIVE (–) = OUTWARD PRESSURE (SUCTION)

WALLS:	+20 PSF, –24 PSF WITHIN 6.5 FT OF CORNERS
	+20 PSF, –20 PSF ELSEWHERE
ROOF:	+10 PSF, –45 PSF WITHIN 6.5 FT OF CORNERS AND EDGE
	+10 PSF, –18 PSF ELSEWHERE

D-5 EARTHQUAKE LOADS
- a) RISK CATEGORY III (BCNYS REFERENCE CODE TABLE 1604.5/ASCE 7-16)
- b) SEISMIC IMPORTANCE FACTOR: Ie=1.25
- c) SITE CLASS: SITE CLASS "C" (PER GEOTECH REPORT)
- d) SPECTRAL RESPONSE COEFFICIENTS:

SMS=0.223G	SS=0.177G
SM1=0.086G	S1=0.057G
SDS=0.153G	FA=1.3
SD1=0.057G	FV=1.5

- e) SEISMIC DESIGN CATEGORY: DESIGN CATEGORY "A"

STRUCTURAL STEEL / METAL DECK NOTES

S-1. STEEL ROOF DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE AND FACTORY MUTUAL STANDARDS. (TWO OR MORE SPAN LOADING CONDITIONS). TYPICAL ALL ROOF AND FLOOR AREAS UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE.

S-2. STRUCTURAL STEEL SHALL BE AS FOLLOWS EXCEPT AS OTHERWISE NOTED:
STRUCTURAL SHAPES – ASTM A992 (Fy = 50KSI)
STRUCTURAL TUBES – ASTM A500 (Fy = 46KSI) GRADE B
STRUCTURAL PIPE – ASTM A501 (Fy = 36KSI) OR ASTM A53, TYPE E OR S, GRADE B (Fy = 36KSI)
STRUCTURAL BARS, ANGLES, AND PLATES – ASTM A36 (Fy = 36KSI)

S-3. FINAL LOCATION OF ALL CLIP ANGLES ATTACHED TO BEAMS WHICH SUPPORT EXTERIOR AND INTERIOR WALLS SHALL BE COORDINATED WITH DIMENSIONAL REQUIREMENTS OF ARCHITECTURAL DETAILS AND SHALL BE INSTALLED ACCOUNTING FOR ROLLING TOLERANCES OF STEEL MEMBERS TO PROVIDE PROPER ALIGNMENT.

S-4. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND THE SPECIFICATIONS. REF SPECS FOR SHOP DRAWING REQUIREMENTS.

S-5. FABRICATE AND ERECT ALL STRUCTURAL STEEL WITH RESIDUAL MILL CAMBER UPWARDS U.O.N..

S-6. FIELD CONNECTIONS SHALL BE BOLTED WITH 3/4" DIA ASTM A325 BOLTS (PROVIDE STD HOLES) EXCEPT AS OTHERWISE NOTED AND WHERE WELDING IS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. USE BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE AND SNUG TIGHT. (USE SLIP CRITICAL CONNECTION IF SLOTTED HOLES ARE USED OR AS INDICATED ON DRAWINGS).

S-7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND SHALL NOTIFY ARCH/ENG OF ALL DISCREPANCIES PRIOR TO STARTING WORK.

S-8. CONTRACTOR SHALL USE EXTREME CARE AND PROVIDE ADD'L PROTECTION TO SAFEGUARD THE STRUCTURE FROM DAMAGE AND / OR FIRE DURING ALL CONSTRUCTION ACTIVITIES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO DEMOLITION, ERECTION, INSTALLATION, REINFORCEMENT, WELDING, ETC.

S-9. ALL WELDING SHALL COMPLY WITH THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE D1.1. ALL WELDING SHALL BE PERFORMED BY AWS QUALIFIED OPERATORS USING E70XX ELECTRODES. REMOVE ALL DIRT, GREASE, PAINT AND BURRS WITHIN 3" OF ALL WELDS.

TESTING AGENCY SERVICES DURING CONSTRUCTION

TS-1. IT IS REQUIRED THAT THE OWNER CONTRACT WITH AN APPROVED TESTING AGENCY DURING CONSTRUCTION TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REFER TO THE PROJECT MANUAL DIVISION 1, SPECIFICATION SECTION 014533 "CODE REQUIRED SPECIAL INSPECTIONS AND PROCEDURES" FOR ADDITIONAL INFORMATION.

NOTE:
TYPICAL DETAILS, NOTES AND DESIGN PARAMETERS SHOWN ON THIS SHEET ARE RELATED TO THE SHED BUILDING UNLESS NOTED OTHERWISE.

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Expiration Date: 11/30/2027

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Appel Osborne Landscape Architecture
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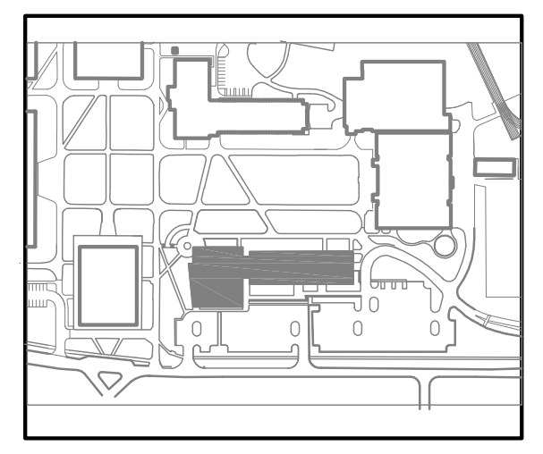
Syracuse, NY 13204
315 476 1022

SEAL:
DOUGLAS R. CAHILL 061675
Douglas R. Cahill, PE
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

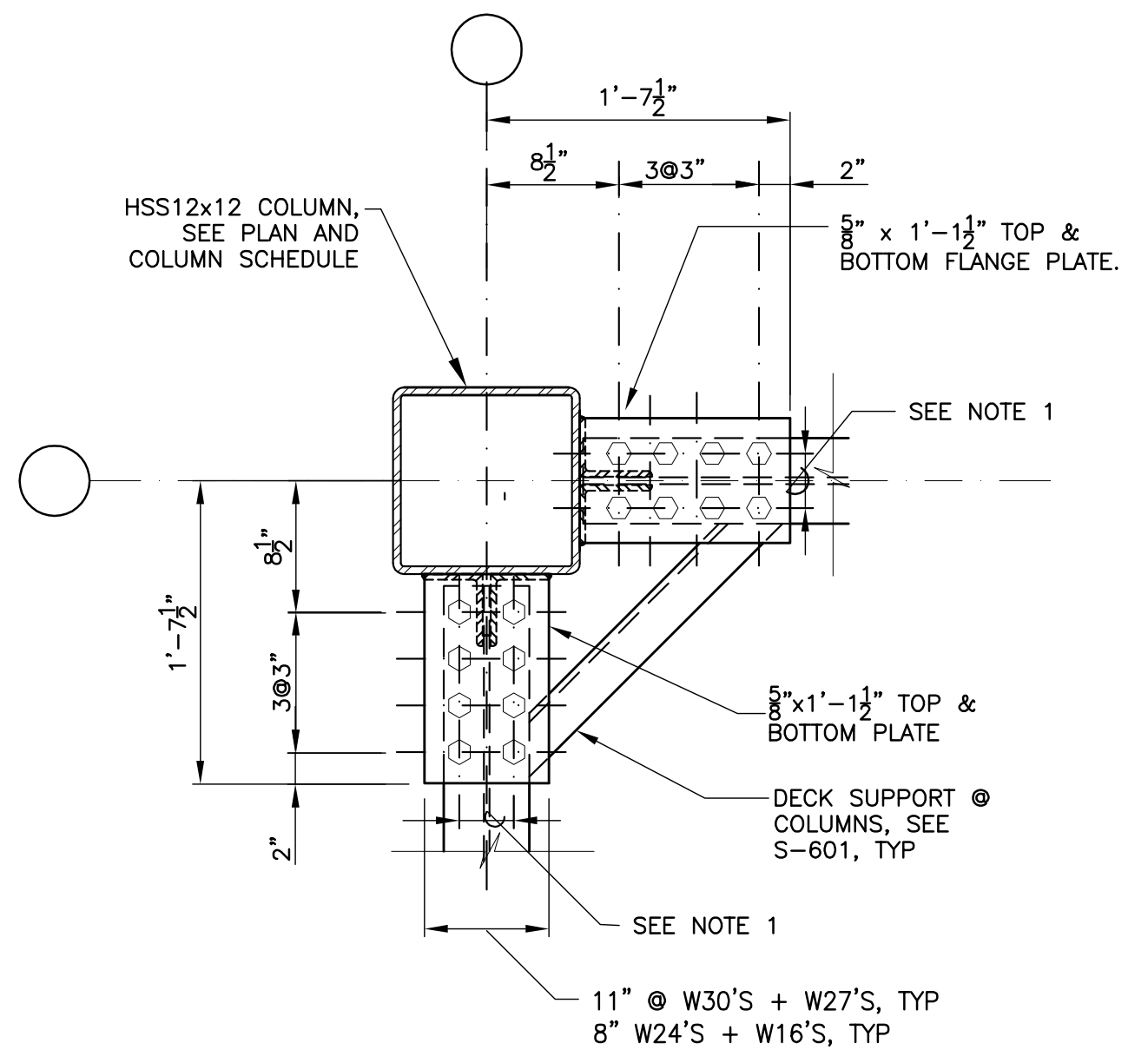
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SHED AND HEAD BUILDING – TYPICAL FRAMING DETAILS, DESIGN PARAMETERS AND NOTES

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

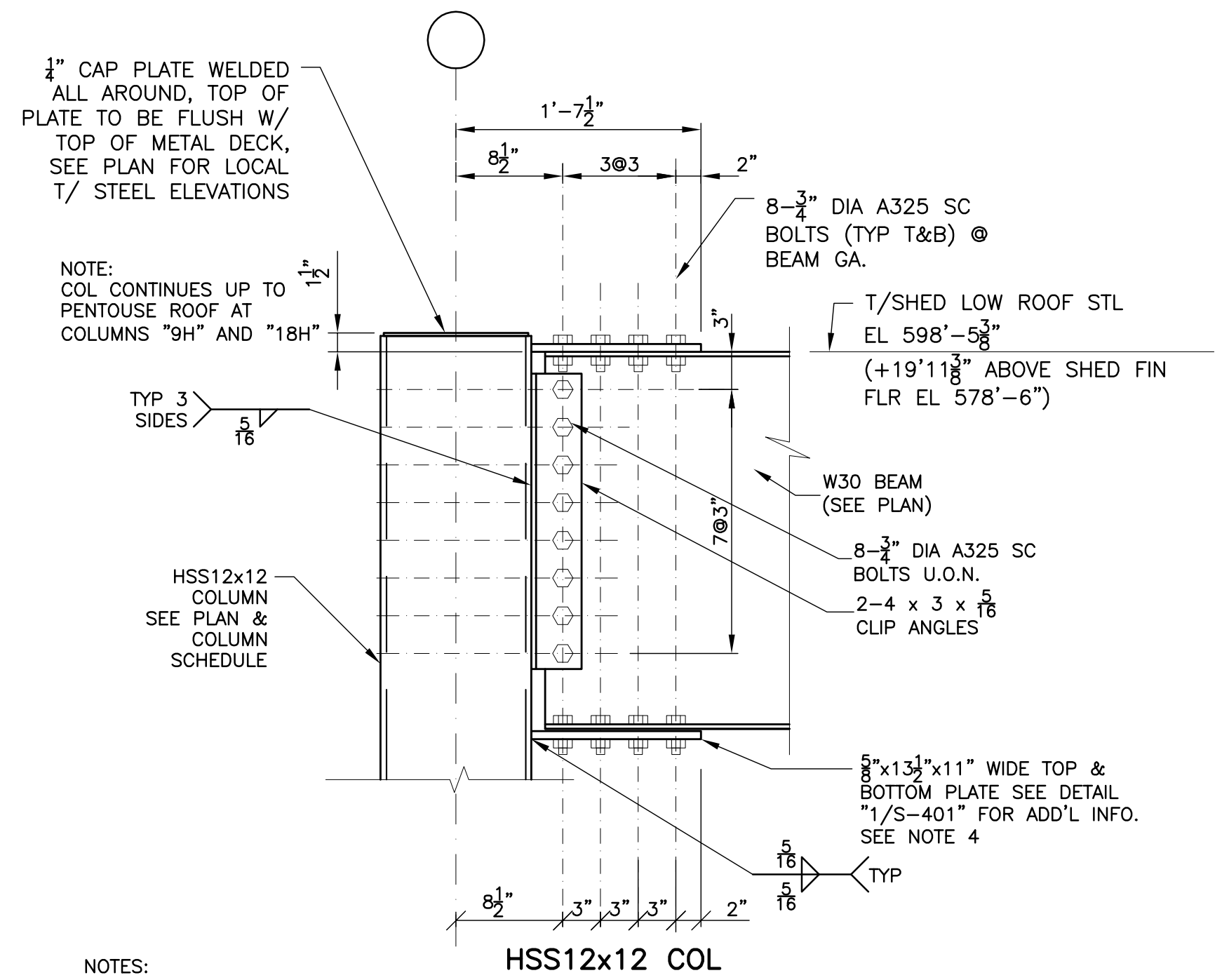
S-601


1'-7 1/2"
8 1/2"
3@3"
2"
HSS12x12 COLUMN, SEE PLAN AND COLUMN SCHEDULE
5/8" x 1'-1 1/2" TOP & BOTTOM FLANGE PLATE.
SEE NOTE 1
8 1/2"
1'-7 1/2"
3@3"
2"
5/8"x1'-1 1/2" TOP & BOTTOM PLATE
DECK SUPPORT @ COLUMNS, SEE S-601, TYP
SEE NOTE 1
11" @ W30'S + W27'S, TYP
8" W24'S + W16'S, TYP

NOTES:
1. COORDINATE BOLT HOLE GAUGE WITH MEMBER SIZES AS SHOWN ON PLAN.
2. DETAIL SHOWS FRAMING MEMBERS ON ONE SIDE OF COLUMN CENTERLINE. HOWEVER, MOMENT CONNECTIONS SHOWN APPLY TO ALL BEAMS NOTED ON THE PLAN TO HAVE A MOMENT CONNECTION THAT FRAMES INTO COLUMNS. BOLTING, WELDING AND PLATE SIZES SHOWN ARE THE MINIMUM CONNECTION REQUIREMENTS.
3. ALL TOP OF STEEL ELEVATIONS SHOWN ON THIS SHEET ARE MEASURED FROM FINISH SHED FLOOR EL 578'-6" (0'-0").
4. SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

1/S-602 MOMENT CONNECTION DETAIL – TOP AND BOTTOM FLANGE PLATES

1"=1'-0"

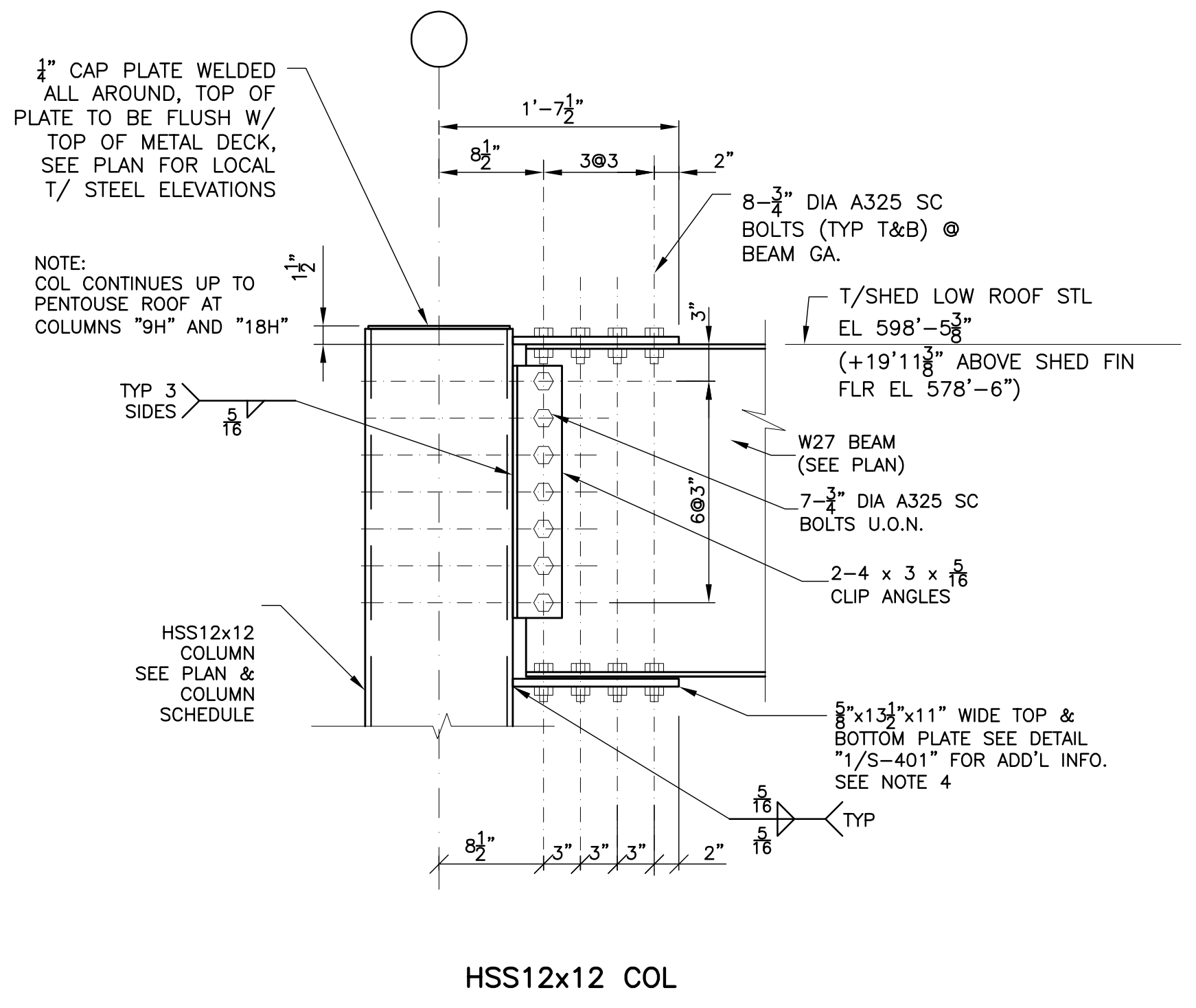

1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK, SEE PLAN FOR LOCAL T/ STEEL ELEVATIONS
1'-7 1/2"
8 1/2"
3@3
2"
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
NOTE: COL CONTINUES UP TO PENTOUSE ROOF AT COLUMNS "9H" AND "18H"
1 1/2"
3"
T/SHED LOW ROOF STL EL 598'-5 3/8" (+19'11 3/8" ABOVE SHED FIN FLR EL 578'-6")
TYP 3 SIDES 5/16
W30 BEAM (SEE PLAN)
7@3"
8-3/4" DIA A325 SC BOLTS U.O.N.
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x11" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
5/16 5/16 TYP
8 1/2" 3" 3" 3" 2"
HSS12x12 COL

NOTES:
1. METAL DECK NOT SHOWN FOR CLARITY.
2. DETAIL SHOWS FRAMING MEMBER ON ONE SIDE OF COLUMN CENTERLINE. HOWEVER, MOMENT CONNECTION SHOWN APPLIES TO ALL BEAMS FRAMING INTO COLUMN FLANGES AT CONTINUOUS COLUMNS. BOLTING, WELDING AND PLATE SIZES SHOWN ARE THE MINIMUM CONNECTION REQUIREMENTS.
3. TO MEET THE CONTRACTOR'S SHOP STANDARDS AND ERECTION PROCEDURES, ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED BY THE CONTRACTOR TO THE A/E FOR THEIR REVIEW AND CONSIDERATION PRIOR TO PREPARATION OF FABRICATION DRAWINGS. IF APPROVED, SUBSTITUTIONS SHALL BE IMPLEMENTED AT NO ADDITIONAL COST TO THE OWNER OR A/E. AN ACCEPTABLE SUBSTITUTION IS TO USE A SINGLE SHEAR TAB PLATE IN LIEU OF THE 2-4x3x5/16"CLIP ANGLES SHOWN IN THE DETAILS. THE SINGLE SHEAR TAB PLATE CONNECTION SHALL BE DESIGNED TO SUPPORT THE MEMBERS UN-FACTORED VERTICAL END REACTIONS (GRAVITY LOADS) SHOWN ON THE SHED BUILDING FRAMING PLANS ON DRAWINGS S-203 AND S-302.
4. FINGER SHIMS SHALL BE PROVIDED FOR ALL BOTTOM PLANGE PLATES TO ALLOW FOR SNUG FIT AND TO AVOID BENDING OF BOTTOM FLANGE PLATE DURING TIGHTENING OF BOLTS.
5. DO NOT SHOP PRIME / PAINT SURFACES TO BE HIGH STRENGTH BOLTED W/ SLIP CRITICAL (SC) CONNECTIONS, TYPICAL ALL MOMENT CONNECTIONS.

TYPICAL MOMENT CONNECTION AT LOW ROOF/PENTHOUSE FLOOR
W30 – NO SLOPE

2/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'

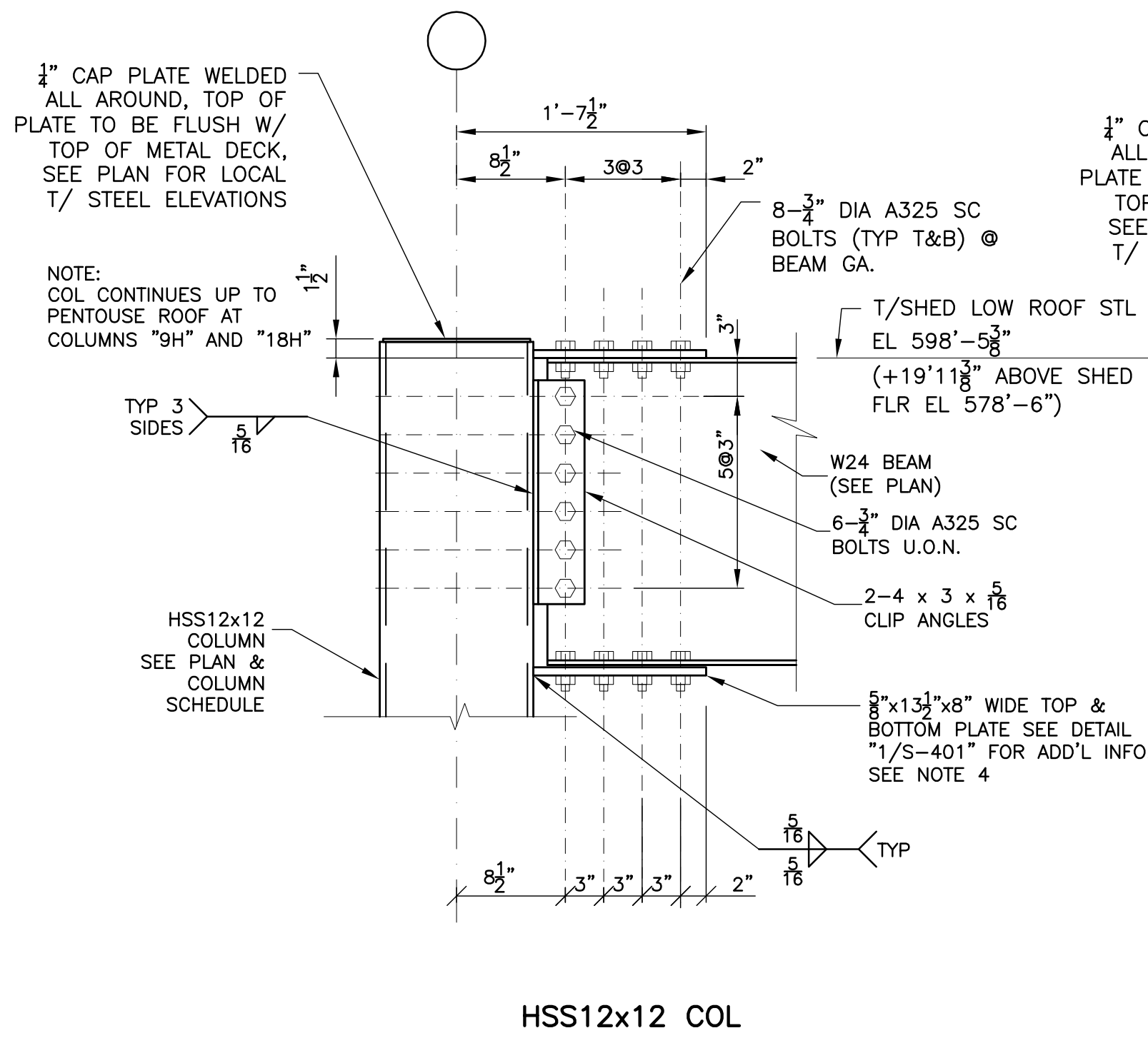

1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK, SEE PLAN FOR LOCAL T/ STEEL ELEVATIONS
1'-7 1/2"
8 1/2"
3@3
2"
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
NOTE: COL CONTINUES UP TO PENTOUSE ROOF AT COLUMNS "9H" AND "18H"
1 1/2"
3"
T/SHED LOW ROOF STL EL 598'-5 3/8" (+19'11 3/8" ABOVE SHED FIN FLR EL 578'-6")
TYP 3 SIDES 5/16
W27 BEAM (SEE PLAN)
6@3"
7-3/4" DIA A325 SC BOLTS U.O.N.
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x11" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
5/16 5/16 TYP
8 1/2" 3" 3" 3" 2"
HSS12x12 COL

NOTE:
SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

TYPICAL MOMENT CONNECTION AT LOW ROOF/PENTHOUSE FLOOR
W27 – NO SLOPE

3/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'

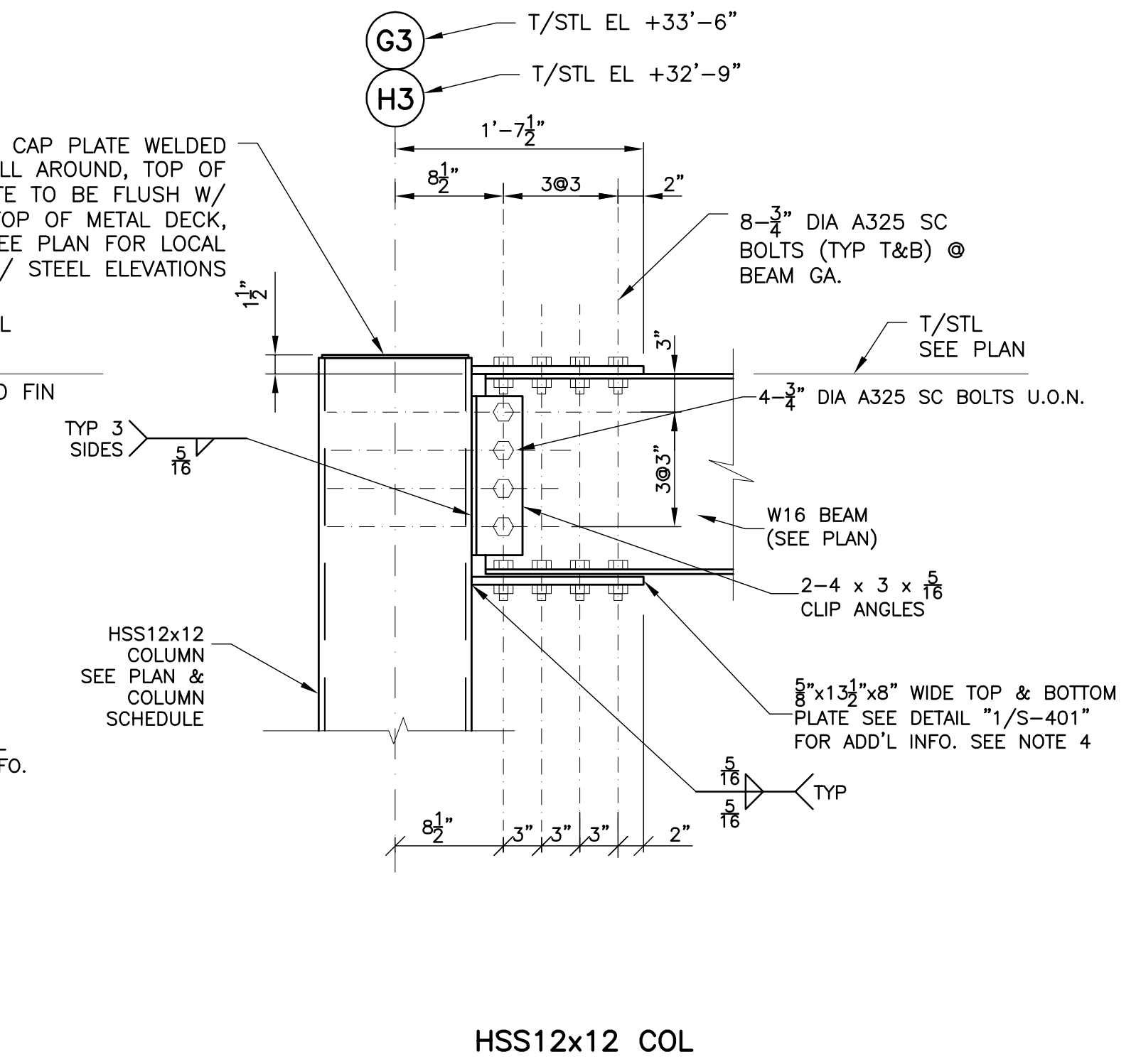

1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK, SEE PLAN FOR LOCAL T/ STEEL ELEVATIONS
1'-7 1/2"
8 1/2"
3@3
2"
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
NOTE: COL CONTINUES UP TO PENTOUSE ROOF AT COLUMNS "9H" AND "18H"
1 1/2"
3"
T/SHED LOW ROOF STL EL 598'-5 3/8" (+19'11 3/8" ABOVE SHED FIN FLR EL 578'-6")
TYP 3 SIDES 5/16
W24 BEAM (SEE PLAN)
5@3"
6-3/4" DIA A325 SC BOLTS U.O.N.
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x8" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
5/16 5/16 TYP
8 1/2" 3" 3" 3" 2"
HSS12x12 COL

NOTE:
SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

TYPICAL MOMENT CONNECTION AT LOW ROOF/PENTHOUSE FLOOR
W24 – NO SLOPE

4/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'

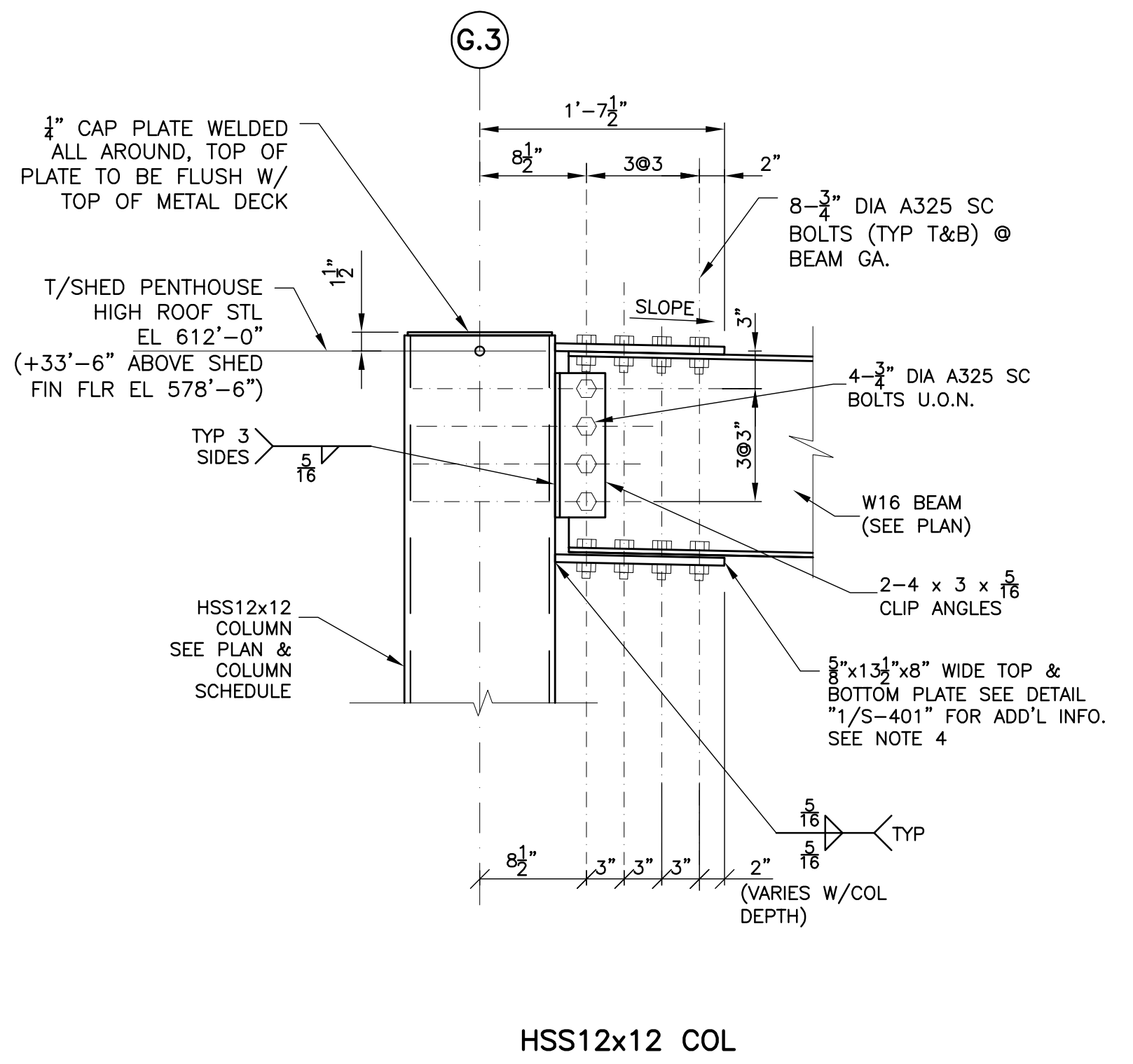

G3
T/STL EL +33'-6"
H3
T/STL EL +32'-9"
1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK, SEE PLAN FOR LOCAL T/ STEEL ELEVATIONS
1'-7 1/2"
8 1/2"
3@3
2"
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
1 1/2"
3"
T/STL SEE PLAN
4-3/4" DIA A325 SC BOLTS U.O.N.
TYP 3 SIDES 5/16
3@3"
W16 BEAM (SEE PLAN)
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x8" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
5/16 5/16 TYP
8 1/2" 3" 3" 3" 2"
HSS12x12 COL

NOTE:
SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

TYPICAL MOMENT CONNECTION AT PENTHOUSE HIGH ROOF
W16 – NO SLOPE

5/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'

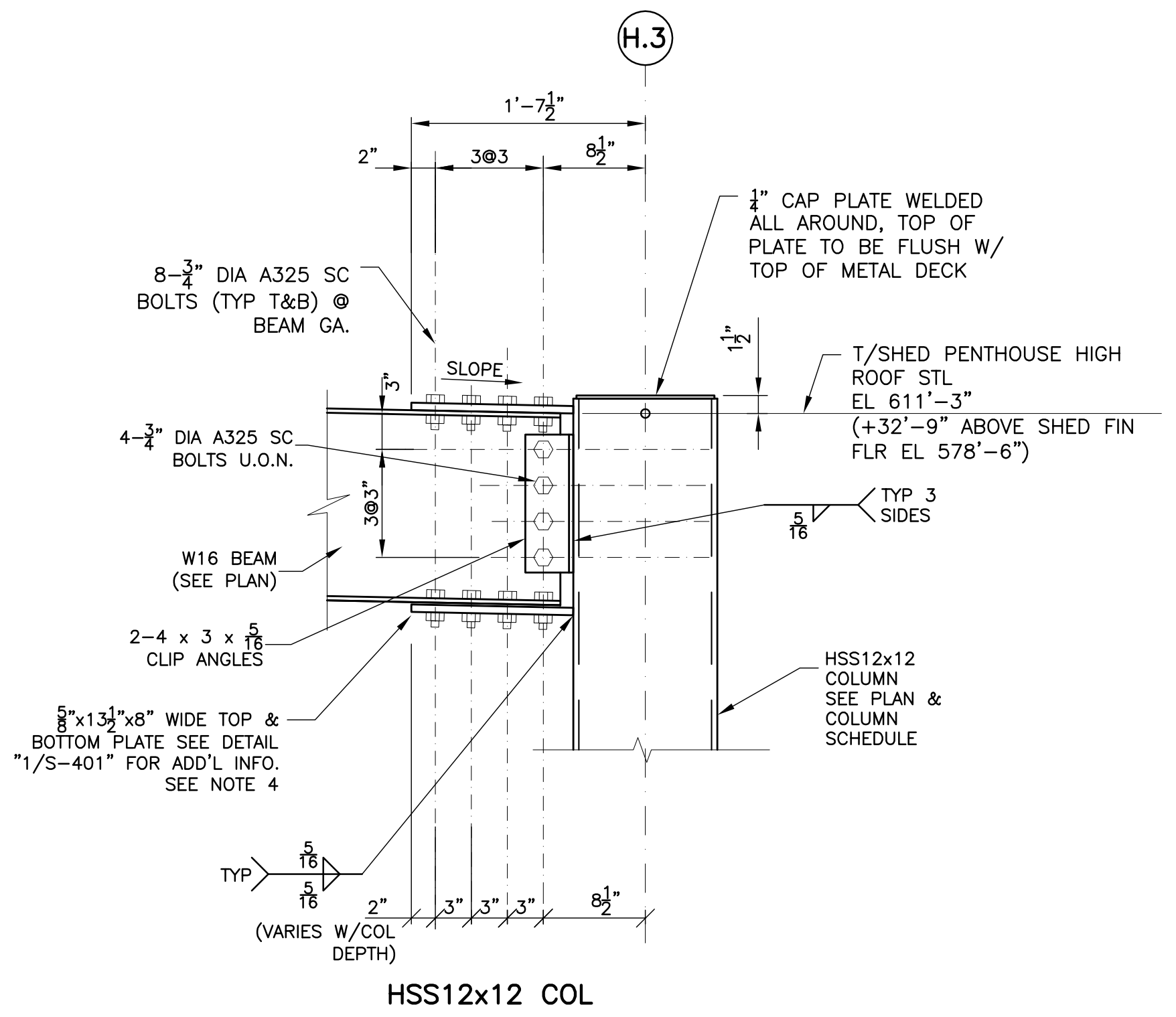

G.3
1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK
1'-7 1/2"
8 1/2"
3@3
2"
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
1 1/2"
T/SHED PENTHOUSE HIGH ROOF STL EL 612'-0" (+33'-6" ABOVE SHED FIN FLR EL 578'-6")
SLOPE
3"
4-3/4" DIA A325 SC BOLTS U.O.N.
TYP 3 SIDES 5/16
3@3"
W16 BEAM (SEE PLAN)
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x8" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
5/16 5/16 TYP
8 1/2" 3" 3" 3" 2"
(VARIES W/COL DEPTH)
HSS12x12 COL

NOTE:
SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

TYPICAL MOMENT CONNECTION AT PENTHOUSE HIGH ROOF
W16 – TOP OF SLOPE

6/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'


H.3
1'-7 1/2"
2"
3@3
8 1/2"
1/4" CAP PLATE WELDED ALL AROUND, TOP OF PLATE TO BE FLUSH W/ TOP OF METAL DECK
8-3/4" DIA A325 SC BOLTS (TYP T&B) @ BEAM GA.
SLOPE
3"
1 1/2"
T/SHED PENTHOUSE HIGH ROOF STL EL 611'-3" (+32'-9" ABOVE SHED FIN FLR EL 578'-6")
4-3/4" DIA A325 SC BOLTS U.O.N.
3@3"
TYP 3 SIDES 5/16
W16 BEAM (SEE PLAN)
2-4 x 3 x 5/16 CLIP ANGLES
HSS12x12 COLUMN SEE PLAN & COLUMN SCHEDULE
5/8"x13 1/2"x8" WIDE TOP & BOTTOM PLATE SEE DETAIL "1/S-401" FOR ADD'L INFO. SEE NOTE 4
TYP 5/16 5/16
2" 3" 3" 3" 8 1/2"
(VARIES W/COL DEPTH)
HSS12x12 COL

NOTE:
SEE NOTES 1 THRU 5 ON DETAIL "2/S-602" FOR INFO NOT SHOWN.

TYPICAL MOMENT CONNECTION AT PENTHOUSE HIGH ROOF
W16 – BOTTOM OF SLOPE

7/S-602 MOMENT CONNECTION DETAIL

1"=1'-0" 0 1'

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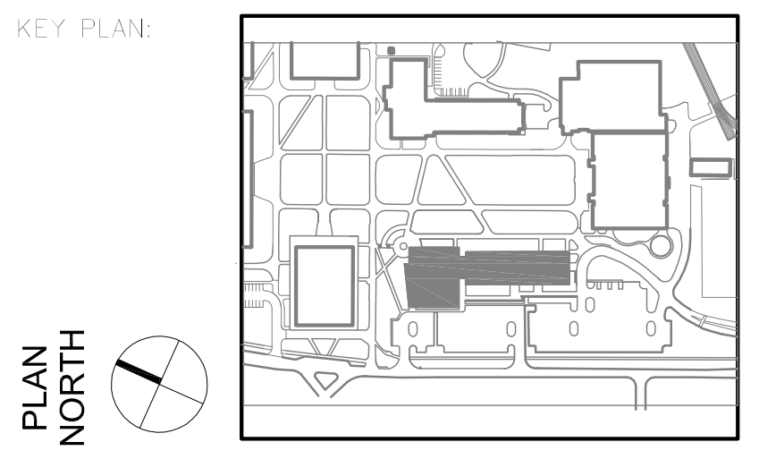
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:

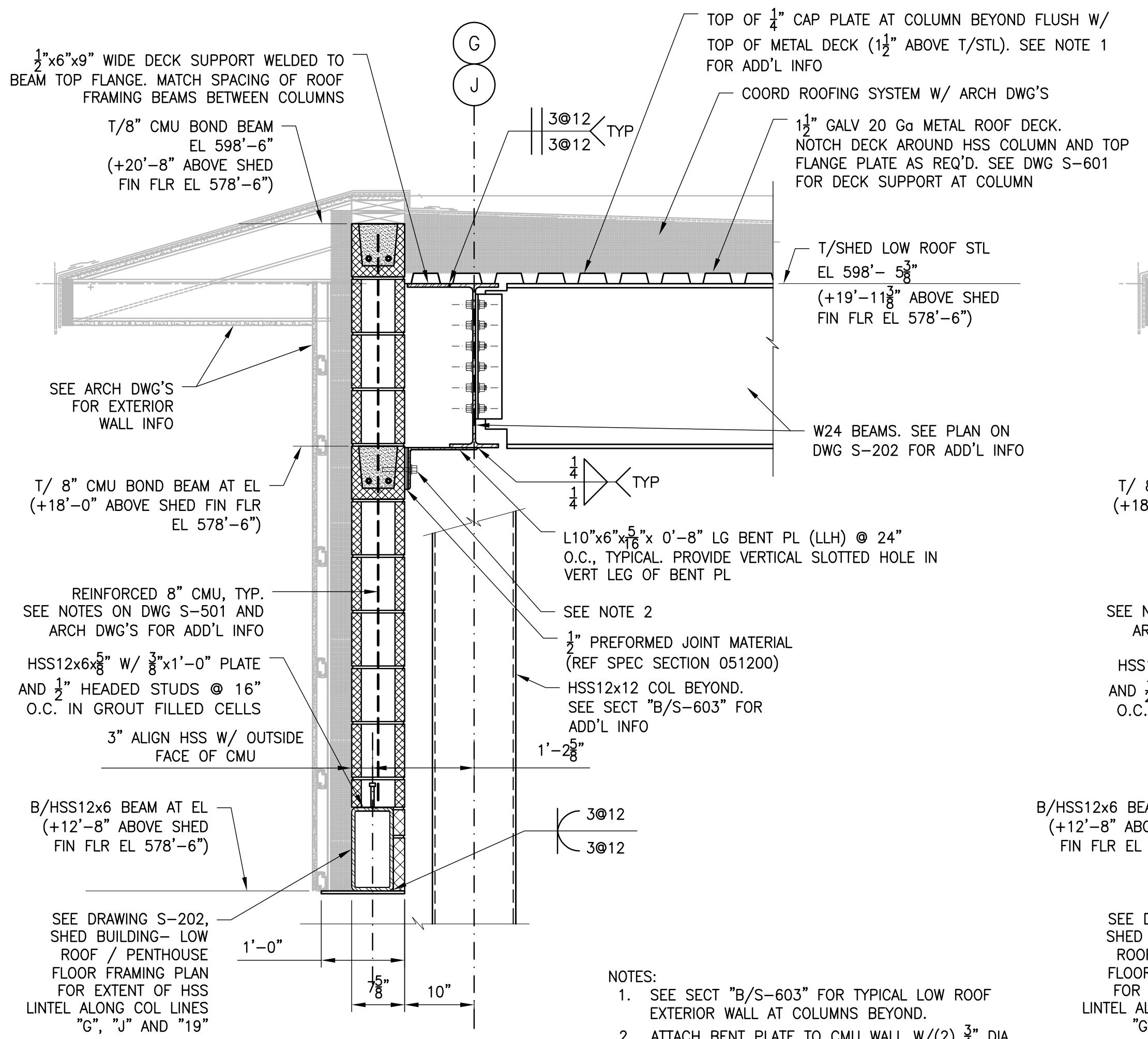


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
SHED BUILDING – TYPICAL MOMENT CONNECTION SECTIONS AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-602

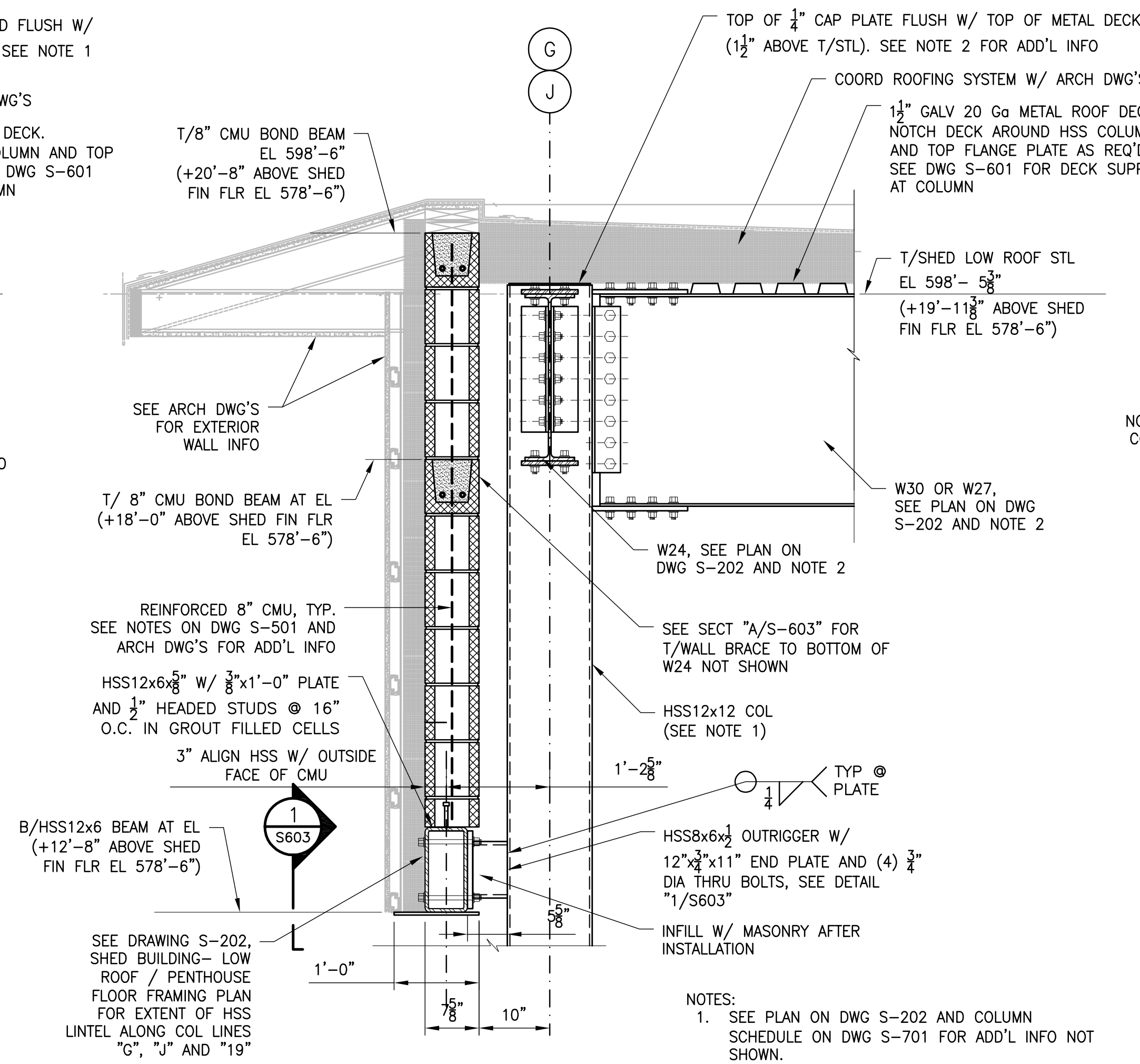


G
J
TOP OF 3/4" CAP PLATE AT COLUMN BEYOND FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 1 FOR ADD'L INFO
COORD ROOFING SYSTEM W/ ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED LOW ROOF STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
W24 BEAMS. SEE PLAN ON DWG S-202 FOR ADD'L INFO
3/8"x6"x9" WIDE DECK SUPPORT WELDED TO BEAM TOP FLANGE. MATCH SPACING OF ROOF FRAMING BEAMS BETWEEN COLUMNS
T/8" CMU BOND BEAM EL 598'-6" (+20'-8" ABOVE SHED FIN FLR EL 578'-6")
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
T/ 8" CMU BOND BEAM AT EL (+18'-0" ABOVE SHED FIN FLR EL 578'-6")
L10"x6"x5/8"x 0'-8" LG BENT PL (LLH) @ 24" O.C., TYPICAL. PROVIDE VERTICAL SLOTTED HOLE IN VERT LEG OF BENT PL
REINFORCED 8" CMU, TYP. SEE NOTES ON DWG S-501 AND ARCH DWG'S FOR ADD'L INFO
SEE NOTE 2
1" PREFORMED JOINT MATERIAL (REF SPEC SECTION 051200)
HSS12x6x5/8" W/ 3/8"x1'-0" PLATE AND 3/4" HEADED STUDS @ 16" O.C. IN GROUT FILLED CELLS
HSS12x12 COL BEYOND. SEE SECT "B/S-603" FOR ADD'L INFO
3" ALIGN HSS W/ OUTSIDE FACE OF CMU
B/HSS12x6 BEAM AT EL (+12'-8" ABOVE SHED FIN FLR EL 578'-6")
3@12
SEE DRAWING S-202, SHED BUILDING- LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN FOR EXTENT OF HSS LINTEL ALONG COL LINES "G", "J" AND "19"
1'-0"
10"
TYP

TYPICAL LOW ROOF EXTERIOR WALL BETWEEN COLUMNS

NOTES:
1. SEE SECT "B/S-603" FOR TYPICAL LOW ROOF EXTERIOR WALL AT COLUMNS BEYOND.
2. ATTACH BENT PLATE TO CMU WALL W/(2) 3/4" DIA ADHESIVE ANCHORS AT 4" C/C CENTERED IN 0'-8" LONG BENT PLATE. INSTALL AT BOTTOM OF VERT SLOTTED HOLE IN BENT PL. TIGHTEN NUT FINGER TIGHT AND TACK WELD NUT TO PLATE.

A SECTION – SHED BLDG
S-603 3/4"=1'-0"

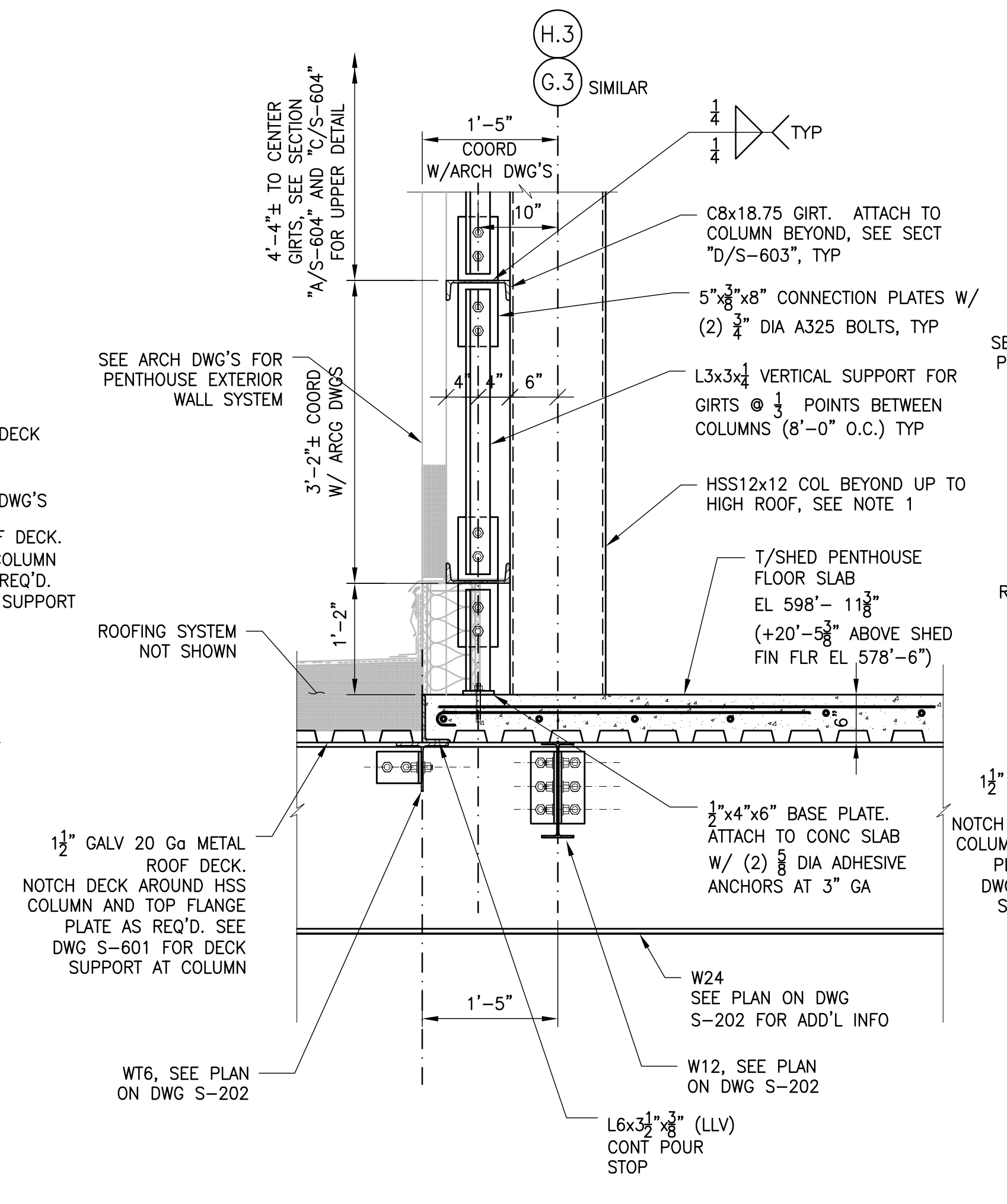


G
J
TOP OF 3/4" CAP PLATE FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 2 FOR ADD'L INFO
COORD ROOFING SYSTEM W/ ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED LOW ROOF STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
W30 OR W27, SEE PLAN ON DWG S-202 AND NOTE 2
W24, SEE PLAN ON DWG S-202 AND NOTE 2
SEE SECT "A/S-603" FOR T/WALL BRACE TO BOTTOM OF W24 NOT SHOWN
HSS12x12 COL (SEE NOTE 1)
T/8" CMU BEAM EL 598'-6" (+20'-8" ABOVE SHED FIN FLR EL 578'-6")
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
T/ 8" CMU BOND BEAM AT EL (+18'-0" ABOVE SHED FIN FLR EL 578'-6")
REINFORCED 8" CMU, TYP. SEE NOTES ON DWG S-501 AND ARCH DWG'S FOR ADD'L INFO
HSS12x6x5/8" W/ 3/8"x1'-0" PLATE AND 3/4" HEADED STUDS @ 16" O.C. IN GROUT FILLED CELLS
3" ALIGN HSS W/ OUTSIDE FACE OF CMU
B/HSS12x6 BEAM AT EL (+12'-8" ABOVE SHED FIN FLR EL 578'-6")
1
S603
HSS8x6x1/2 OUTRIGGER W/ 12"x3/4"x11" END PLATE AND (4) 3/4" DIA THRU BOLTS, SEE DETAIL "1/S603"
INFILL W/ MASONRY AFTER INSTALLATION
SEE DRAWING S-202, SHED BUILDING- LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN FOR EXTENT OF HSS LINTEL ALONG COL LINES "G", "J" AND "19"
1/4 PLATE
1'-0"
7 5/8"
10"
5 5/8"

TYPICAL LOW ROOF EXTERIOR WALL AT COLUMNS

NOTES:
1. SEE PLAN ON DWG S-202 AND COLUMN SCHEDULE ON DWG S-701 FOR ADD'L INFO NOT SHOWN.
2. SEE MOMENT CONNECTION DETAILS ON DWG S-602 FOR ADD'L INFO NOT SHOWN.
3. SEE SECT "A/S-603" FOR TYPICAL LOW ROOF EXTERIOR WALL BETWEEN COLUMNS NOT SHOWN.

B SECTION – SHED BLDG
S-603 3/4"=1'-0"

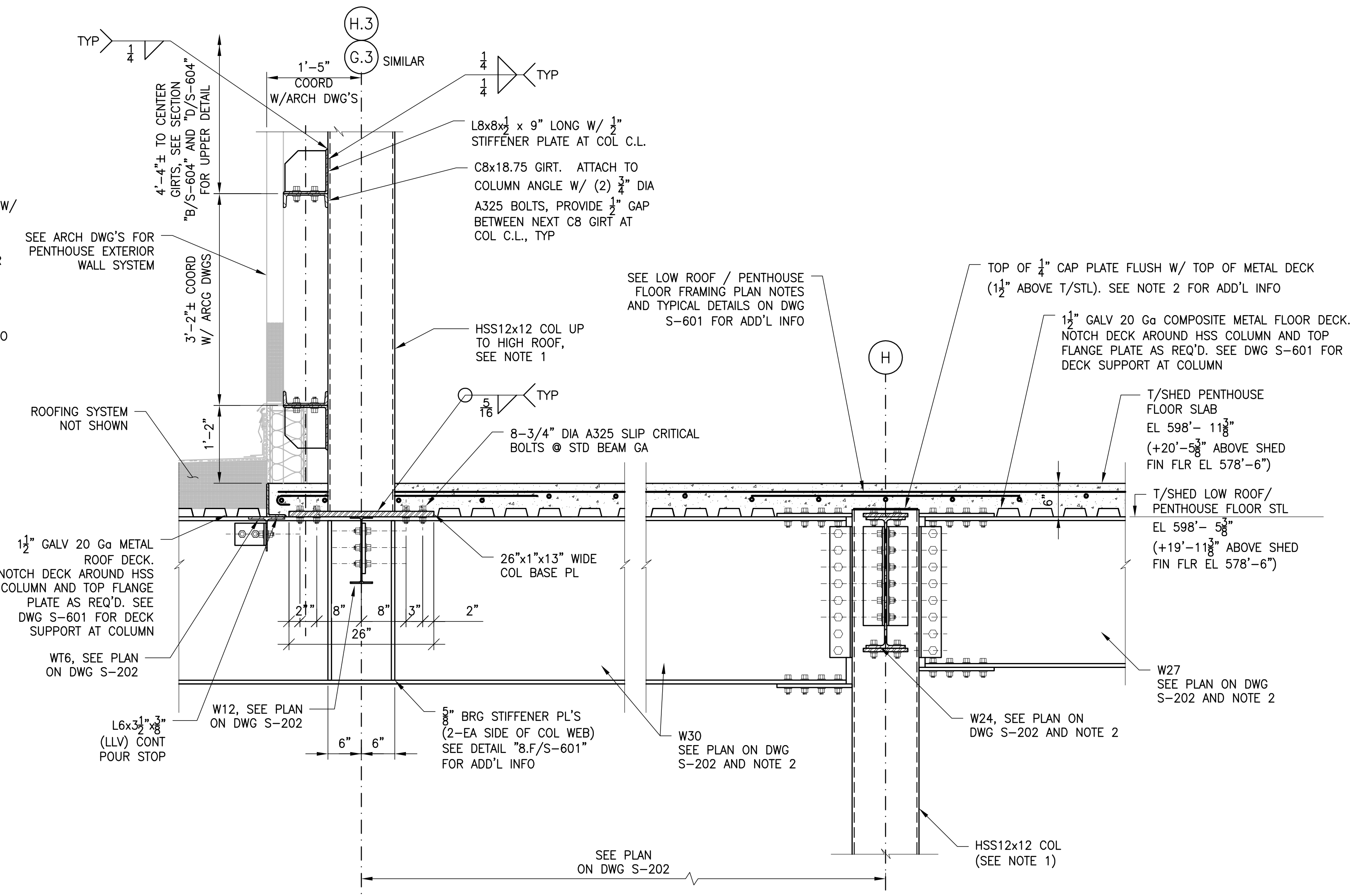


H.3
G.3 SIMILAR
4'-4 1/2" TO CENTER GIRTS, SEE SECTION "A/S-604" AND "C/S-604" FOR UPPER DETAIL
1'-5" COORD W/ARCH DWG'S
C8x18.75 GIRT. ATTACH TO COLUMN BEYOND, SEE SECT "D/S-603", TYP
5"x3/8"x8" CONNECTION PLATES W/ (2) 3/4" DIA A325 BOLTS, TYP
L3x3x1/4 VERTICAL SUPPORT FOR GIRTS @ 1/4 POINTS BETWEEN COLUMNS (8'-0" O.C.) TYP
HSS12x12 COL BEYOND UP TO HIGH ROOF, SEE NOTE 1
SEE ARCH DWG'S FOR PENTHOUSE EXTERIOR WALL SYSTEM
3'-2 1/2" COORD W/ ARCH DWGS
T/SHED PENTHOUSE FLOOR SLAB EL 598'-11 1/8" (+20'-5 1/8" ABOVE SHED FIN FLR EL 578'-6")
ROOFING SYSTEM NOT SHOWN
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
1/2"x4"x6" BASE PLATE. ATTACH TO CONC SLAB W/ (2) 3/8" DIA ADHESIVE ANCHORS AT 3" GA
W24 SEE PLAN ON DWG S-202 FOR ADD'L INFO
W12, SEE PLAN ON DWG S-202
W6, SEE PLAN ON DWG S-202
L6x3 1/2"x3/8" (LLV) CONT POUR STOP
1'-5"
TYP

NOTES:
1. SEE SECT "D/S-603" FOR TYPICAL LOW ROOF / PENTHOUSE FLOOR AT COLUMNS FOR ADD'L INFO NOT SHOWN.

TYPICAL LOW ROOF / PENTHOUSE FLOOR BETWEEN COLUMNS

C SECTION – SHED BLDG
S-603 3/4"=1'-0"

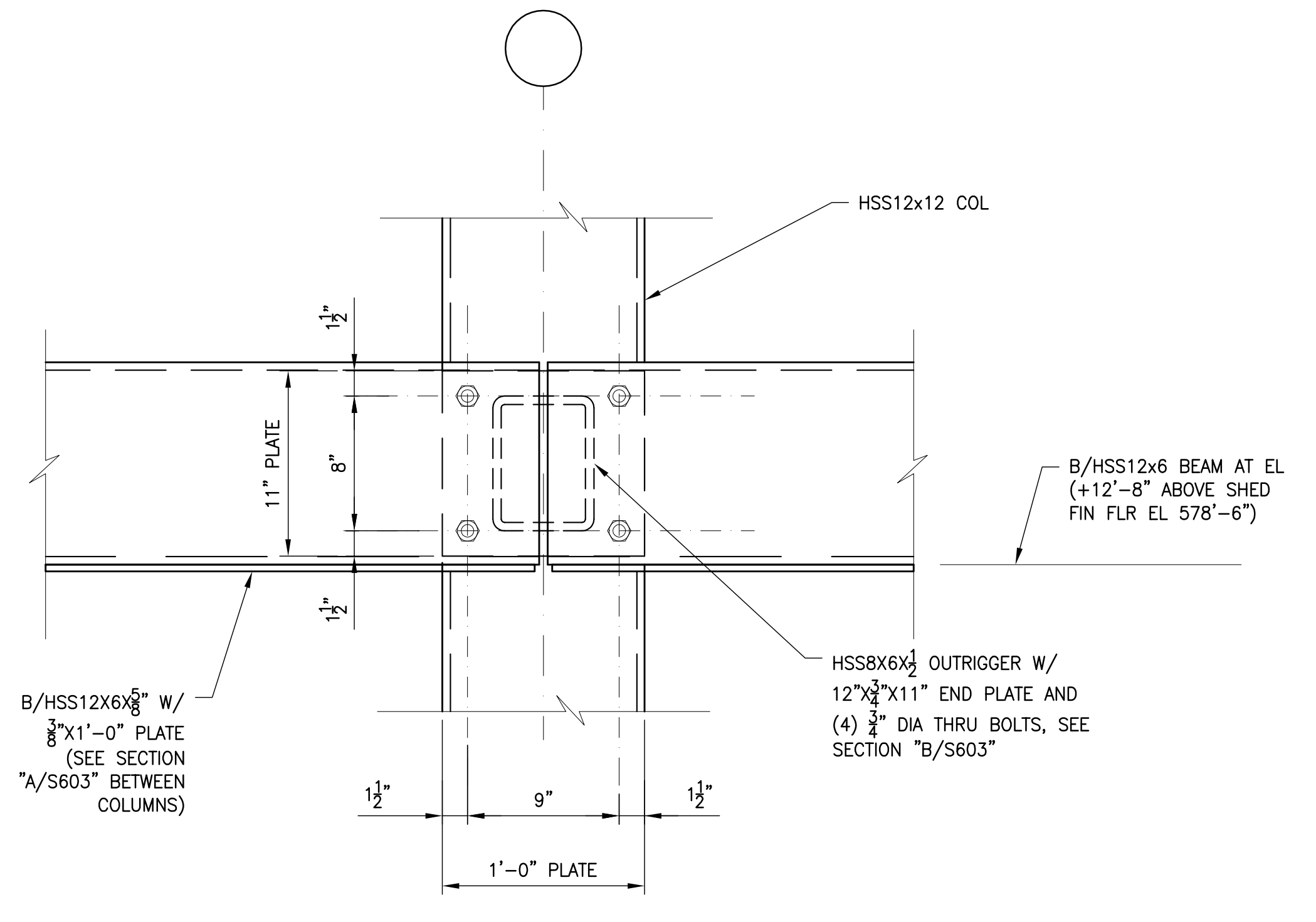


H.3
G.3 SIMILAR
TYP
4'-4 1/2" TO CENTER GIRTS, SEE SECTION "A/S-604" AND "C/S-604" FOR UPPER DETAIL
1'-5" COORD W/ARCH DWG'S
L8x8x3/4 x 9" LONG W/ 3/8" STIFFENER PLATE AT COL C.L.
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 3/4" GAP BETWEEN NEXT C8 GIRT AT COL C.L., TYP
SEE ARCH DWG'S FOR PENTHOUSE EXTERIOR WALL SYSTEM
SEE LOW ROOF / PENTHOUSE FLOOR FRAMING PLAN NOTES AND TYPICAL DETAILS ON DWG S-601 FOR ADD'L INFO
HSS12x12 COL UP TO HIGH ROOF, SEE NOTE 1
TOP OF 3/4" CAP PLATE FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 2 FOR ADD'L INFO
1 1/2" GALV 20 Ga COMPOSITE METAL FLOOR DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
H
8-3/4" DIA A325 SLIP CRITICAL BOLTS @ STD BEAM GA
T/SHED PENTHOUSE FLOOR SLAB EL 598'-11 1/8" (+20'-5 1/8" ABOVE SHED FIN FLR EL 578'-6")
T/SHED LOW ROOF/ PENTHOUSE FLOOR STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
ROOFING SYSTEM NOT SHOWN
26"x1"x13" WIDE COL BASE PL
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
W6, SEE PLAN ON DWG S-202
W27 SEE PLAN ON DWG S-202 AND NOTE 2
W24, SEE PLAN ON DWG S-202 AND NOTE 2
L6x3 1/2"x3/8" (LLV) CONT POUR STOP
W12, SEE PLAN ON DWG S-202
5/8" BRG STIFFENER PL'S (2-EA SIDE OF COL WEB) SEE DETAIL "8.F/S-601" FOR ADD'L INFO
W30 SEE PLAN ON DWG S-202 AND NOTE 2
HSS12x12 COL (SEE NOTE 1)
SEE PLAN ON DWG S-202
6"
6"

NOTES:
1. SEE PLAN ON DWG S-202 AND COLUMN SCHEDULE ON DWG S-701 FOR ADD'L INFO NOT SHOWN.
2. SEE MOMENT CONNECTION DETAILS ON DWG S-602 FOR ADD'L INFO NOT SHOWN.
3. SEE SECT "C/S-603" FOR TYPICAL LOW ROOF EXTERIOR WALL BETWEEN COLUMNS NOT SHOWN.

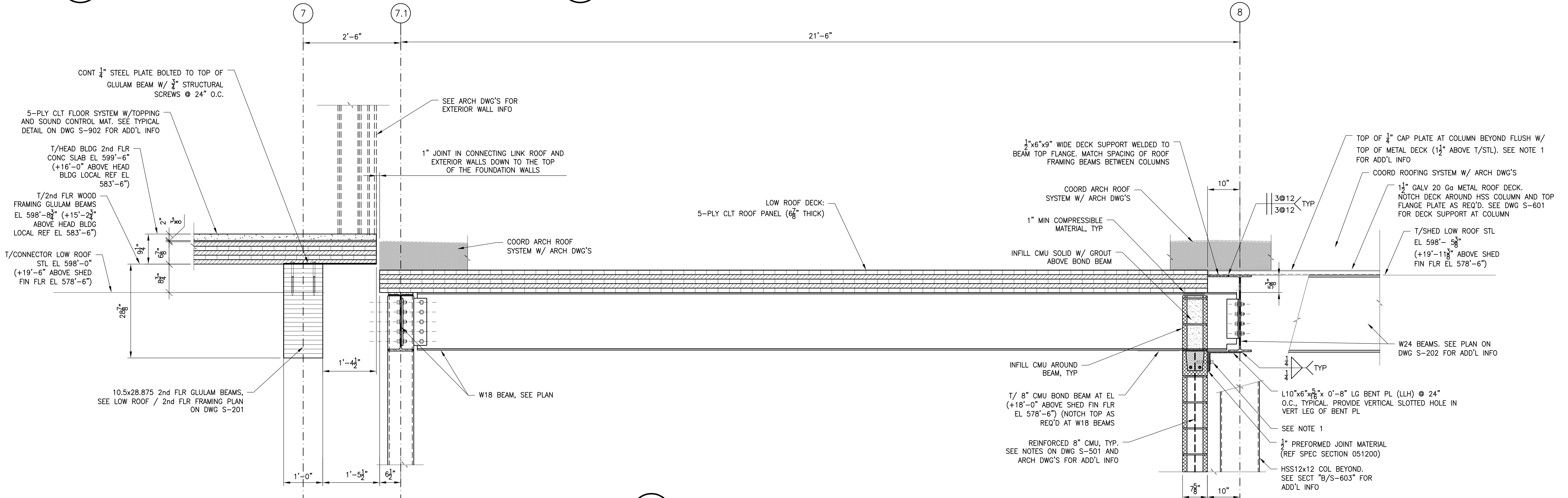
TYPICAL LOW ROOF / PENTHOUSE FLOOR AT COLUMNS

D SECTION – SHED BLDG
S-603 3/4"=1'-0"



HSS12x12 COL
11" PLATE
B/HSS12x6 BEAM AT EL (+12'-8" ABOVE SHED FIN FLR EL 578'-6")
HSS8X6X1/2 OUTRIGGER W/ 12"x3/4"X11" END PLATE AND (4) 3/4" DIA THRU BOLTS, SEE SECTION "B/S603"
B/HSS12X6X5/8" W/ 3/8"X1'-0" PLATE (SEE SECTION "A/S603" BETWEEN COLUMNS)
1 1/2"
9"
1 1/2"
1'-0" PLATE

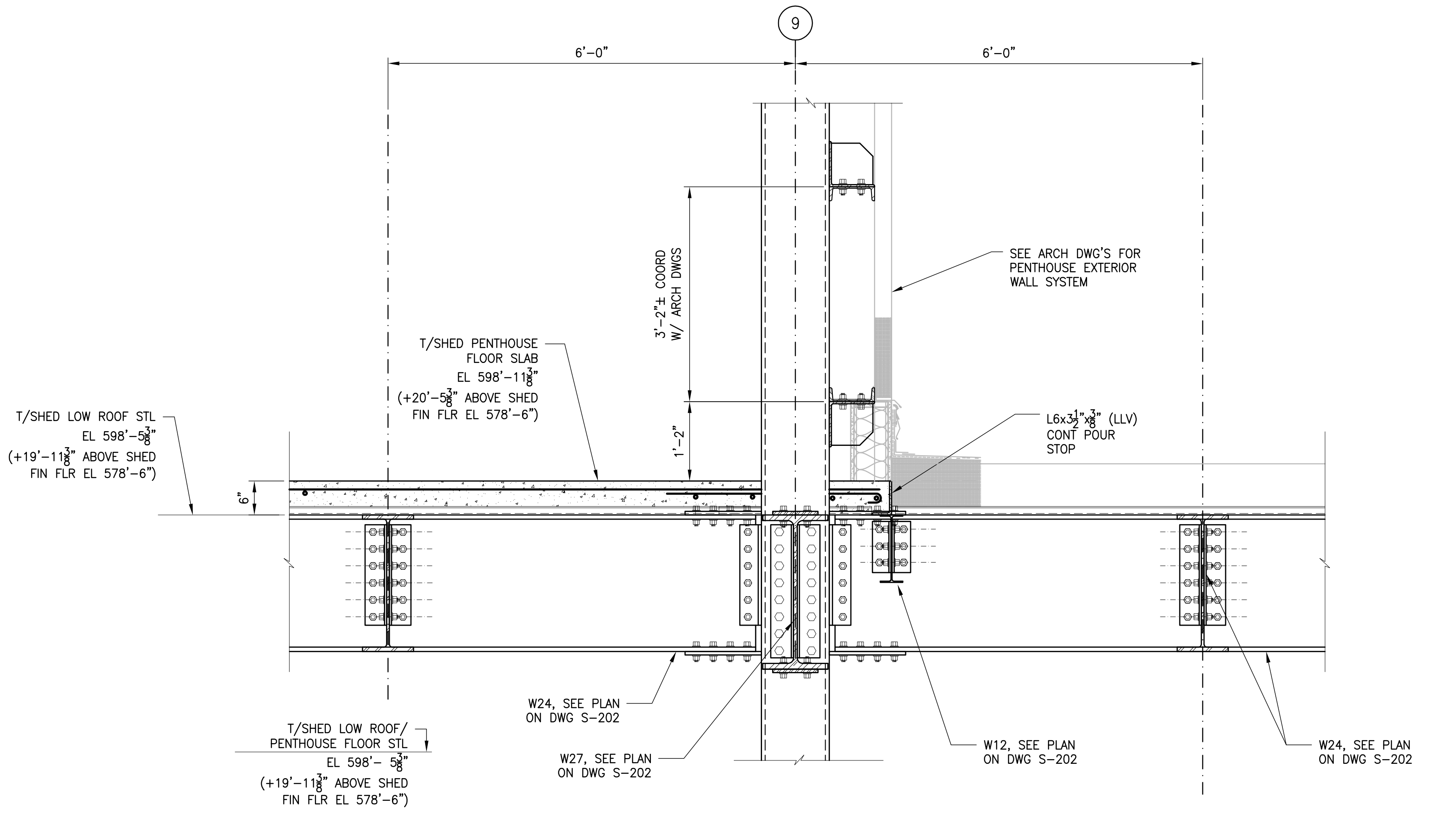
1 DETAIL @ HSS LINTEL TO COL (ABOVE WINDOWS)
S603 1 1/2"=1'-0"



7
7.1
8
2'-6"
21'-6"
CONT 3/4" STEEL PLATE BOLTED TO TOP OF GLULAM BEAM W/ 3/8" STRUCTURAL SCREWS @ 24" O.C.
5-PLY CLT FLOOR SYSTEM W/TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S-902 FOR ADD'L INFO
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-8 1/4" (+15'-2 1/4" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/CONNECTOR LOW ROOF STL EL 598'-0" (+19'-6" ABOVE SHED FIN FLR EL 578'-6")
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
1" JOINT IN CONNECTING LINK ROOF AND EXTERIOR WALLS DOWN TO THE TOP OF THE FOUNDATION WALLS
LOW ROOF DECK: 5-PLY CLT ROOF PANEL (6 7/8" THICK)
COORD ARCH ROOF SYSTEM W/ ARCH DWG'S
10.5x28.875 2nd FLR GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
W18 BEAM, SEE PLAN
3/8"x6"x9" WIDE DECK SUPPORT WELDED TO BEAM TOP FLANGE. MATCH SPACING OF ROOF FRAMING BEAMS BETWEEN COLUMNS
COORD ARCH ROOF SYSTEM W/ ARCH DWG'S
1" MIN COMPRESSIBLE MATERIAL, TYP
INFILL CMU SOLID W/ GROUT ABOVE BOND BEAM
TOP OF 3/4" CAP PLATE AT COLUMN BEYOND FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 1 FOR ADD'L INFO
COORD ROOFING SYSTEM W/ ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED LOW ROOF STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
W24 BEAMS. SEE PLAN ON DWG S-202 FOR ADD'L INFO
INFILL CMU AROUND BEAM, TYP
T/ 8" CMU BOND BEAM AT EL (+18'-0" ABOVE SHED FIN FLR EL 578'-6") (NOTCH TOP AS REQ'D AT W18 BEAMS
REINFORCED 8" CMU, TYP. SEE NOTES ON DWG S-501 AND ARCH DWG'S FOR ADD'L INFO
L10"x6"x5/8"x 0'-8" LG BENT PL (LLH) @ 24" O.C., TYPICAL. PROVIDE VERTICAL SLOTTED HOLE IN VERT LEG OF BENT PL
SEE NOTE 1
1" PREFORMED JOINT MATERIAL (REF SPEC SECTION 051200)
HSS12x12 COL BEYOND. SEE SECT "B/S-603" FOR ADD'L INFO
3@12
TYP
10"
1'-0"
1'-5"
1'-6 1/4"

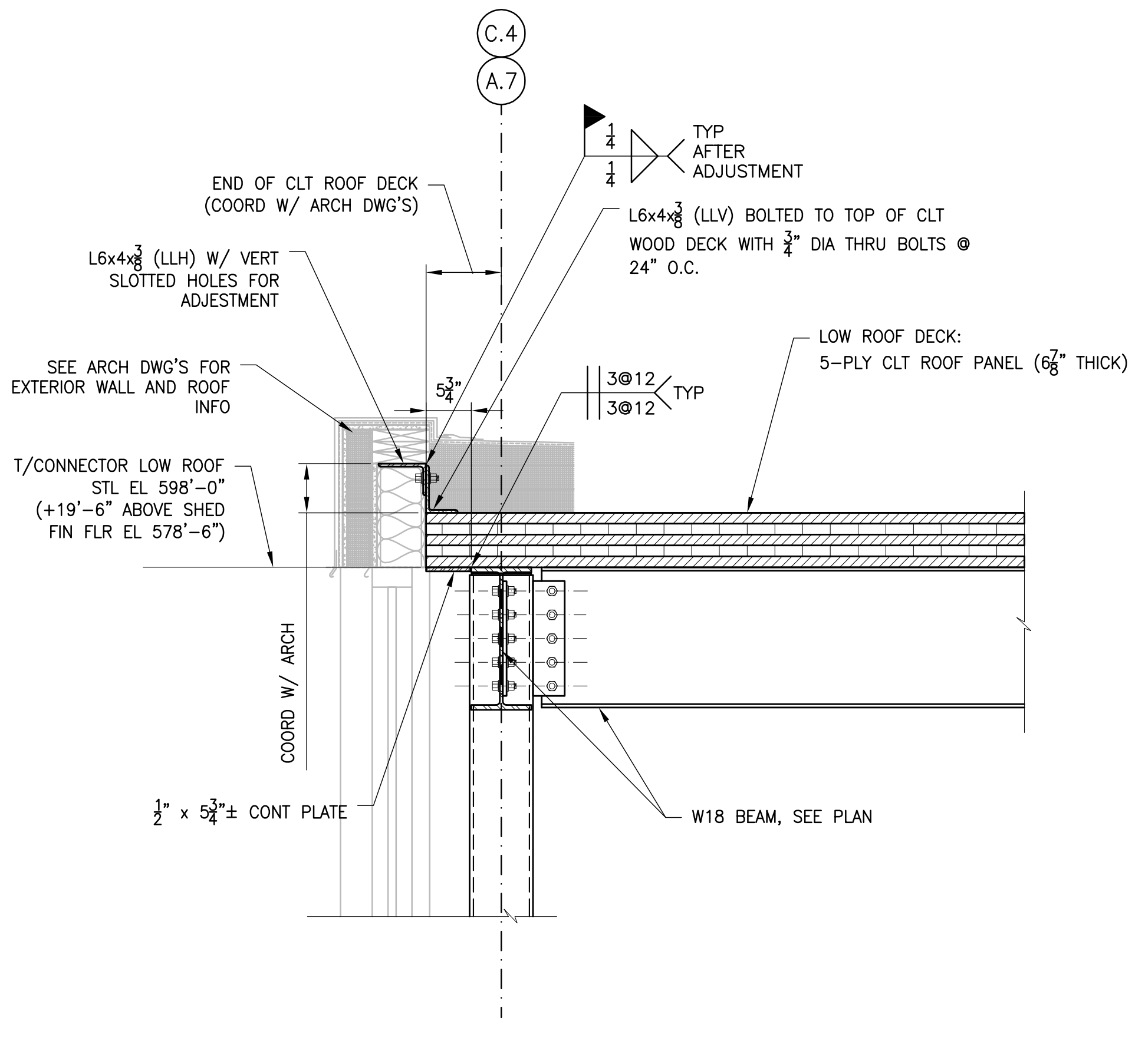
E SECTION – CONNECTING LINK
S-603 3/4"=1'-0"

NOTES:
1. ATTACH BENT PLATE TO CMU WALL W/ 3/4" DIA ADHESIVE ANCHORS. INSTALL AT BOTTOM OF VERT SLOTTED HOLE IN BENT PL. TIGHTEN NUT FINGER TIGHT AND TACK WELD NUT TO PLATE.



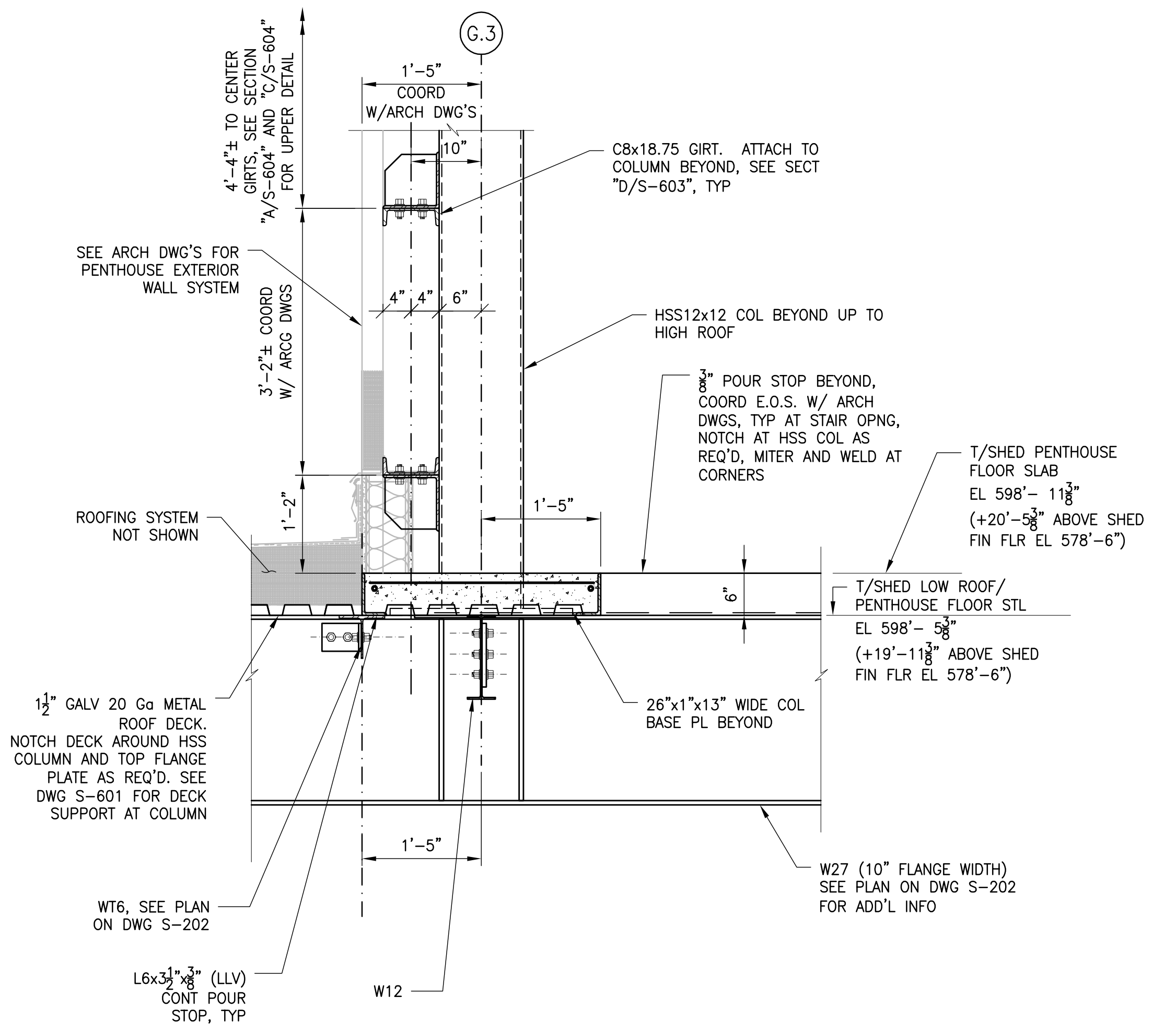
9
6'-0"
6'-0"
SEE ARCH DWG'S FOR PENTHOUSE EXTERIOR WALL SYSTEM
3'-2 1/2" COORD W/ ARCH DWGS
T/SHED PENTHOUSE FLOOR SLAB EL 598'-11 1/8" (+20'-5 1/8" ABOVE SHED FIN FLR EL 578'-6")
T/SHED LOW ROOF STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
L6x3 1/2"x3/8" (LLV) CONT POUR STOP
W24, SEE PLAN ON DWG S-202
W27, SEE PLAN ON DWG S-202
W12, SEE PLAN ON DWG S-202
W24, SEE PLAN ON DWG S-202
T/SHED LOW ROOF/ PENTHOUSE FLOOR STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")

F SECTION – SHED BLDG
S-603 3/4"=1'-0"



C.4
A.7
TYP AFTER ADJUSTMENT
END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
L6x4x3/8 (LLH) W/ VERT SLOTTED HOLES FOR ADJUSTMENT
L6x4x3/8 (LLV) BOLTED TO TOP OF CLT WOOD DECK WITH 3/4" DIA THRU BOLTS @ 24" O.C.
LOW ROOF DECK: 5-PLY CLT ROOF PANEL (6 7/8" THICK)
SEE ARCH DWG'S FOR EXTERIOR WALL AND ROOF INFO
3@12 TYP
T/CONNECTOR LOW ROOF STL EL 598'-0" (+19'-6" ABOVE SHED FIN FLR EL 578'-6")
COORD W/ ARCH
3/4" x 5 1/2" CONT PLATE
W18 BEAM, SEE PLAN

G SECTION – CONNECTING LINK
S-603 3/4"=1'-0"



G.3
4'-4 1/2" TO CENTER GIRTS, SEE SECTION "A/S-604" AND "C/S-604" FOR UPPER DETAIL
1'-5" COORD W/ARCH DWG'S
C8x18.75 GIRT. ATTACH TO COLUMN BEYOND, SEE SECT "D/S-603", TYP
SEE ARCH DWG'S FOR PENTHOUSE EXTERIOR WALL SYSTEM
3'-2 1/2" COORD W/ ARCH DWGS
HSS12x12 COL BEYOND UP TO HIGH ROOF
3/8" POUR STOP BEYOND, COORD E.O.S. W/ ARCH DWGS, TYP AT STAIR OPNG, NOTCH AT HSS COL AS REQ'D, MITER AND WELD AT CORNERS
T/SHED PENTHOUSE FLOOR SLAB EL 598'-11 1/8" (+20'-5 1/8" ABOVE SHED FIN FLR EL 578'-6")
ROOFING SYSTEM NOT SHOWN
T/SHED LOW ROOF/ PENTHOUSE FLOOR STL EL 598'-5/8" (+19'-11 1/8" ABOVE SHED FIN FLR EL 578'-6")
26"x1"x13" WIDE COL BASE PL BEYOND
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
W6, SEE PLAN ON DWG S-202
L6x3 1/2"x3/8" (LLV) CONT POUR STOP, TYP
W12
W27 (10" FLANGE WIDTH) SEE PLAN ON DWG S-202 FOR ADD'L INFO
1'-5"
1'-5"

H SECTION – SHED BLDG
S-603 3/4"=1'-0"

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NYS Professional Engineer No. 61675
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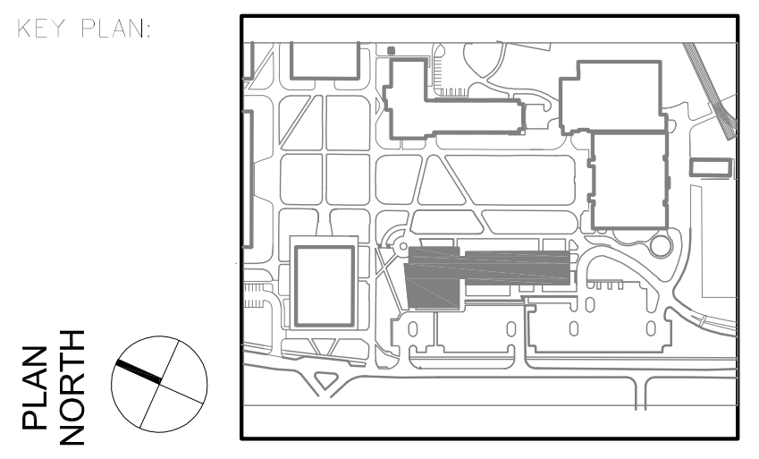
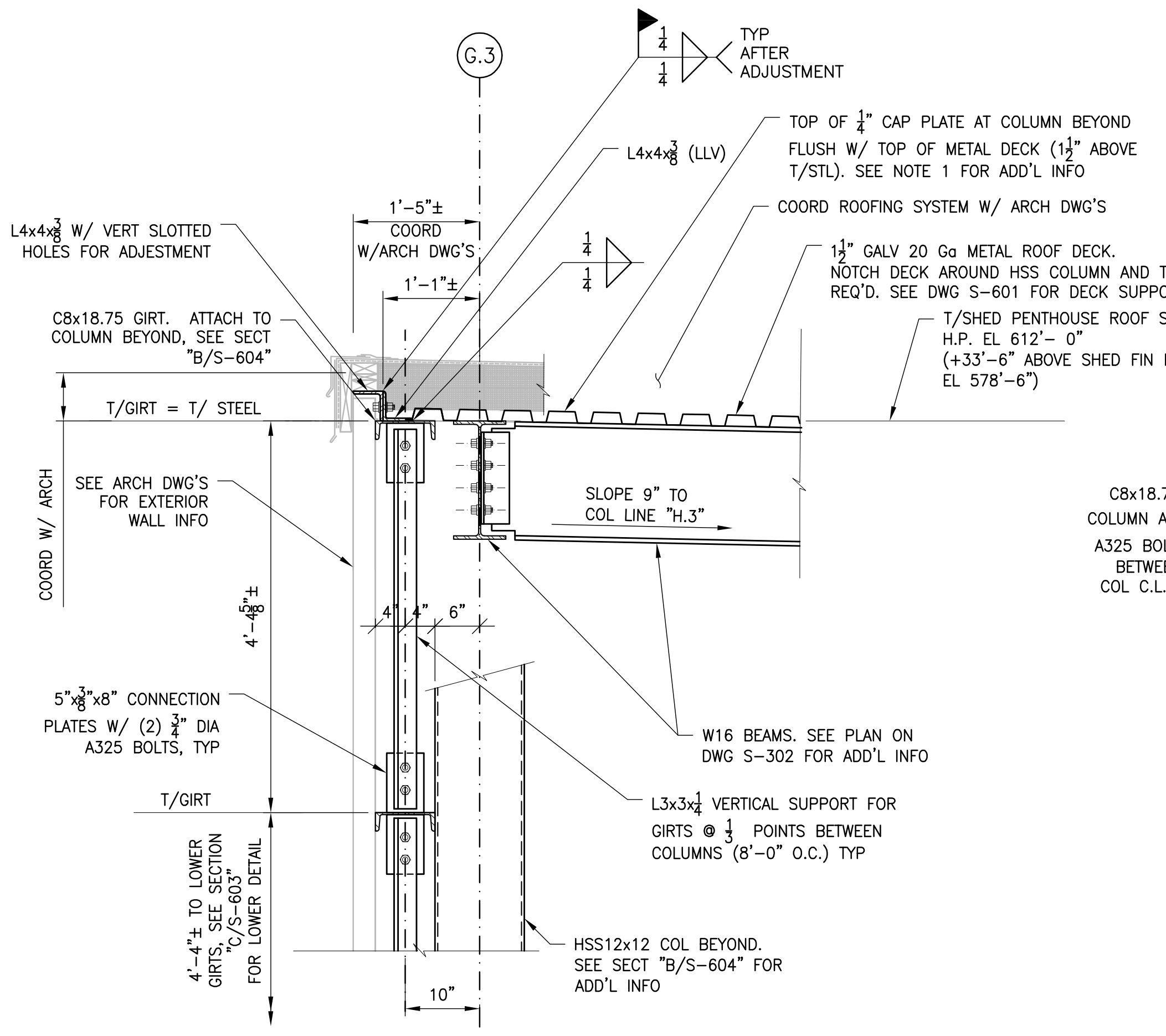


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
SHED BUILDING –
LOW ROOF,
CONNECTING LINK
ROOF & PENTHOUSE
FRAMING SECTIONS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

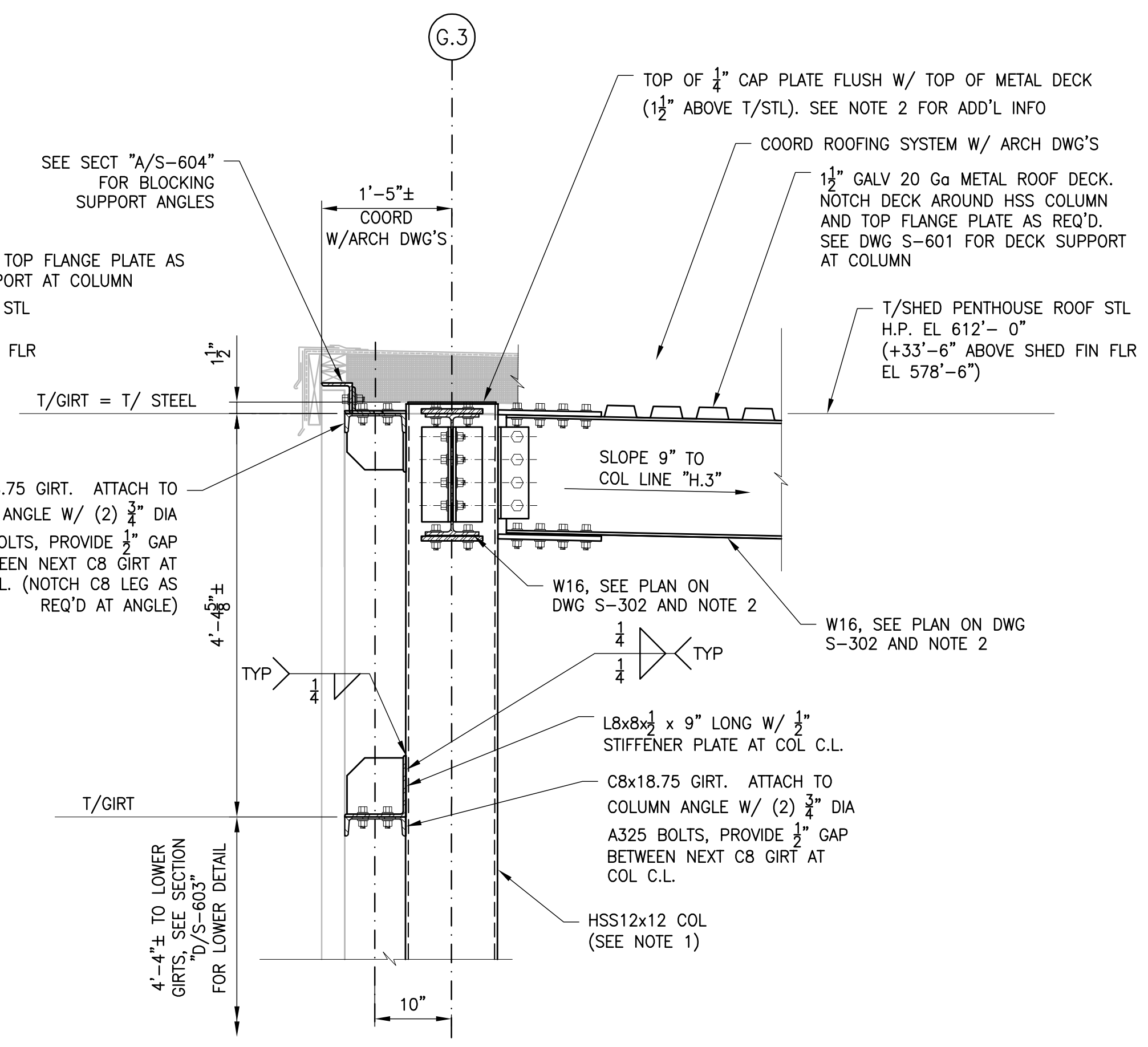
S-603


G.3
TYP AFTER ADJUSTMENT
TOP OF 1/4" CAP PLATE AT COLUMN BEYOND FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 1 FOR ADD'L INFO
L4x4x3/8 (LLV)
COORD ROOFING SYSTEM W/ ARCH DWG'S
L4x4x3/8 W/ VERT SLOTTED HOLES FOR ADJUSTMENT
1'-5"± COORD W/ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
C8x18.75 GIRT. ATTACH TO COLUMN BEYOND, SEE SECT "B/S-604"
T/SHED PENTHOUSE ROOF STL H.P. EL 612'-0" (+33'-6" ABOVE SHED FIN FLR EL 578'-6")
T/GIRT = T/ STEEL
SLOPE 9" TO COL LINE "H.3"
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
COORD W/ ARCH
5"x3/8"x8" CONNECTION PLATES W/ (2) 3/4" DIA A325 BOLTS, TYP
W16 BEAMS. SEE PLAN ON DWG S-302 FOR ADD'L INFO
L3x3x1/4 VERTICAL SUPPORT FOR GIRTS @ 1/3 POINTS BETWEEN COLUMNS (8'-0" O.C.) TYP
T/GIRT
4'-4"± TO LOWER GIRTS, SEE SECTION "C/S-603" FOR LOWER DETAIL
HSS12x12 COL BEYOND. SEE SECT "B/S-604" FOR ADD'L INFO
10"

NOTES:
1. SEE SECT "B/S-604" FOR TYPICAL HIGH ROOF EXTERIOR WALL AT COLUMNS BEYOND.

TYPICAL PENTHOUSE HIGH ROOF EXTERIOR WALL BETWEEN COLUMNS AT HIGH POINT

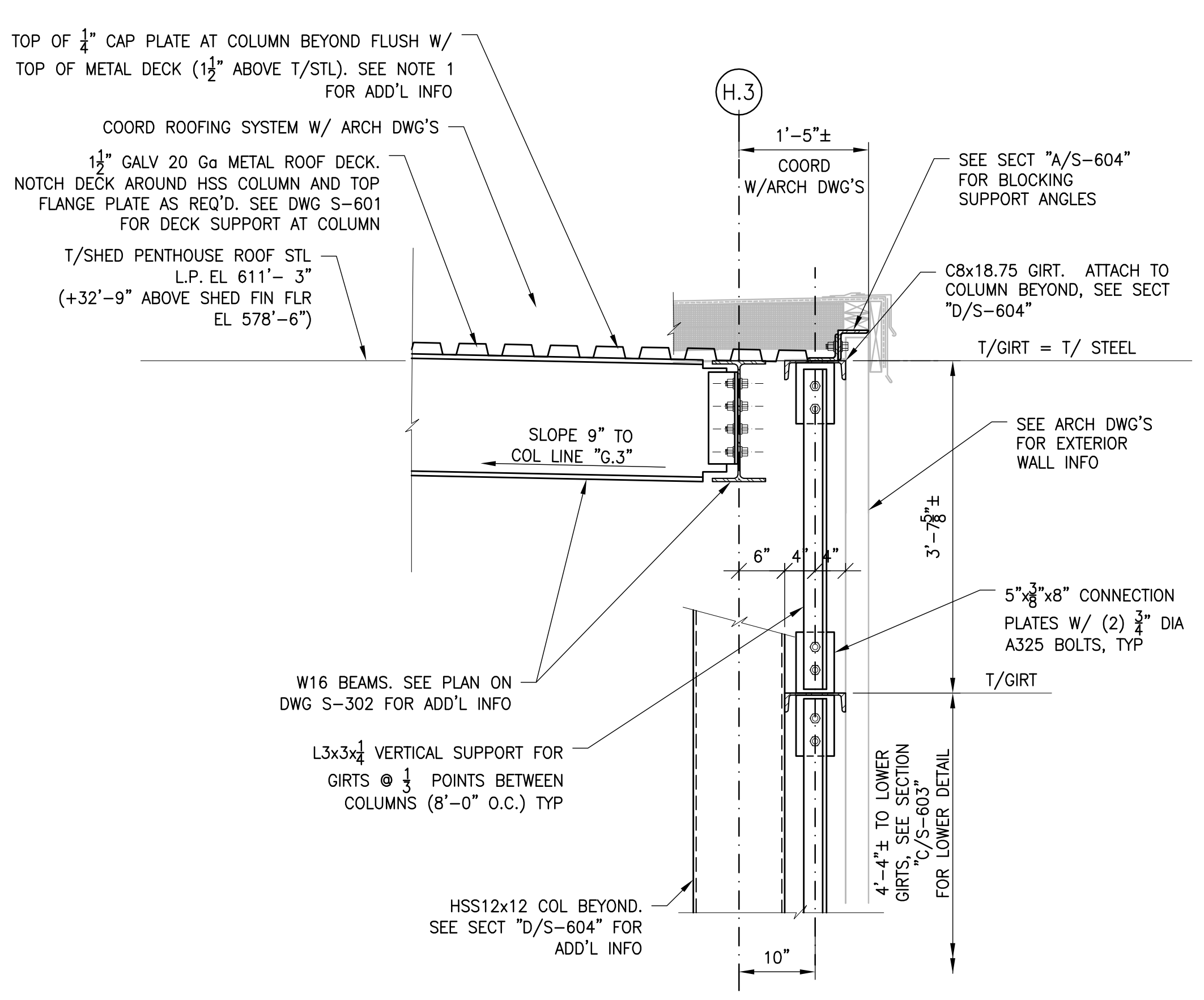
A SECTION – SHED BLDG
S-604 3/4"=1'-0"


G.3
TOP OF 1/4" CAP PLATE FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 2 FOR ADD'L INFO
SEE SECT "A/S-604" FOR BLOCKING SUPPORT ANGLES
COORD ROOFING SYSTEM W/ ARCH DWG'S
1'-5"± COORD W/ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED PENTHOUSE ROOF STL H.P. EL 612'-0" (+33'-6" ABOVE SHED FIN FLR EL 578'-6")
T/GIRT = T/ STEEL
SLOPE 9" TO COL LINE "H.3"
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L. (NOTCH C8 LEG AS REQ'D AT ANGLE)
W16, SEE PLAN ON DWG S-302 AND NOTE 2
W16, SEE PLAN ON DWG S-302 AND NOTE 2
TYP
L8x8x3/4 x 9" LONG W/ 1/2" STIFFENER PLATE AT COL C.L.
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L.
T/GIRT
4'-4"± TO LOWER GIRTS, SEE SECTION "D/S-603" FOR LOWER DETAIL
HSS12x12 COL (SEE NOTE 1)
10"

NOTES:
1. SEE PLAN ON DWG S-302 AND COLUMN SCHEDULE ON DWG S-701 FOR ADD'L INFO NOT SHOWN.
2. SEE MOMENT CONNECTION DETAILS ON DWG S-602 FOR ADD'L INFO NOT SHOWN.
3. SEE SECT "A/S-604" FOR TYPICAL HIGH ROOF EXTERIOR WALL BETWEEN COLUMNS NOT SHOWN.

TYPICAL PENTHOUSE HIGH ROOF EXTERIOR WALL AT COLUMNS @ HIGH POINT

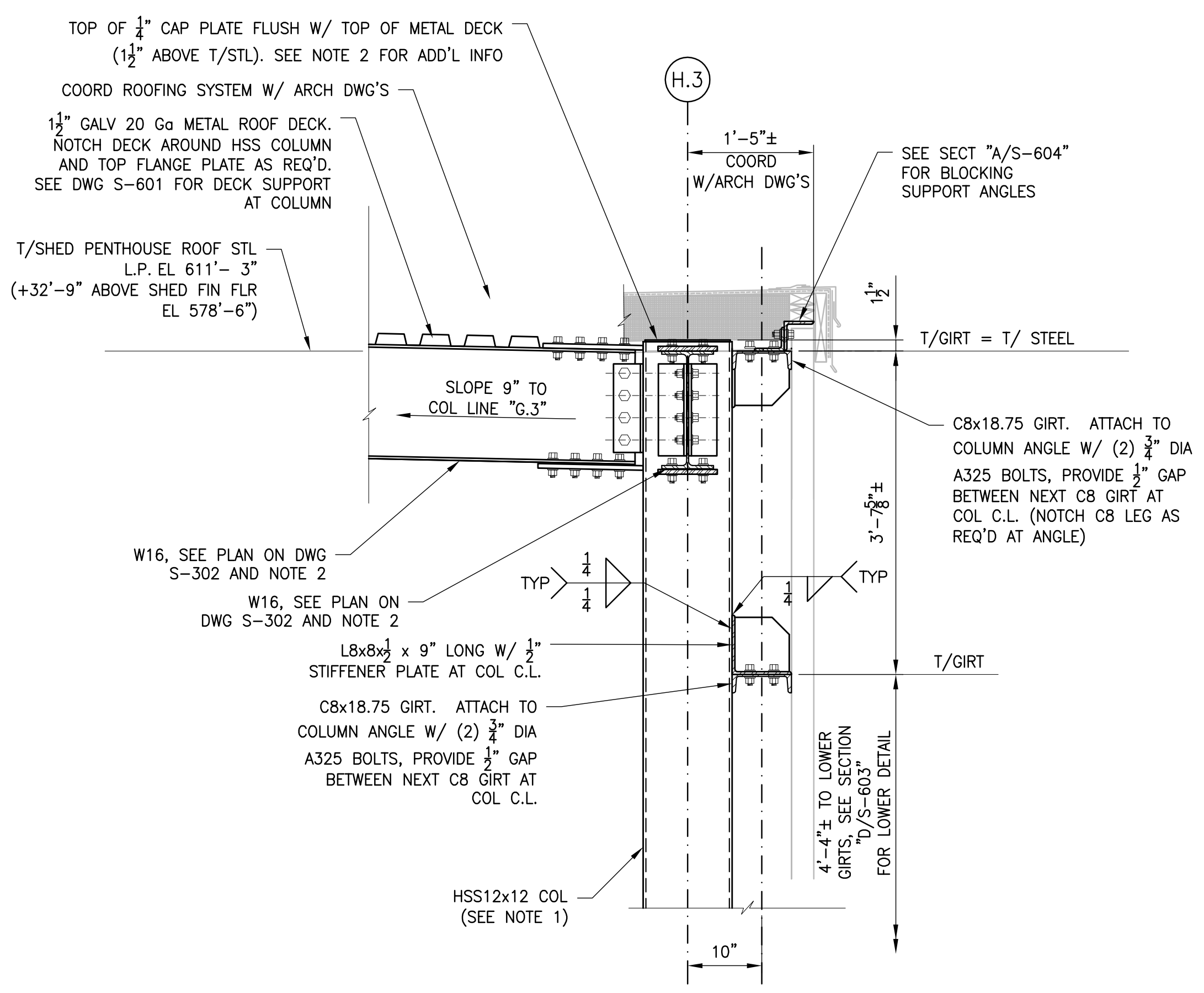
B SECTION – SHED BLDG
S-604 3/4"=1'-0"


H.3
TOP OF 1/4" CAP PLATE AT COLUMN BEYOND FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 1 FOR ADD'L INFO
COORD ROOFING SYSTEM W/ ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED PENTHOUSE ROOF STL L.P. EL 611'-3" (+32'-9" ABOVE SHED FIN FLR EL 578'-6")
1'-5"± COORD W/ARCH DWG'S
SEE SECT "A/S-604" FOR BLOCKING SUPPORT ANGLES
C8x18.75 GIRT. ATTACH TO COLUMN BEYOND, SEE SECT "D/S-604"
T/GIRT = T/ STEEL
SLOPE 9" TO COL LINE "G.3"
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
5"x3/8"x8" CONNECTION PLATES W/ (2) 3/4" DIA A325 BOLTS, TYP
W16 BEAMS. SEE PLAN ON DWG S-302 FOR ADD'L INFO
L3x3x1/4 VERTICAL SUPPORT FOR GIRTS @ 1/3 POINTS BETWEEN COLUMNS (8'-0" O.C.) TYP
T/GIRT
4'-4"± TO LOWER GIRTS, SEE SECTION "C/S-603" FOR LOWER DETAIL
HSS12x12 COL BEYOND. SEE SECT "D/S-604" FOR ADD'L INFO
10"

NOTES:
1. SEE SECT "D/S-604" FOR TYPICAL LOW ROOF EXTERIOR WALL AT COLUMNS BEYOND.

TYPICAL PENTHOUSE HIGH ROOF EXTERIOR WALL BETWEEN COLUMNS AT LOW POINT

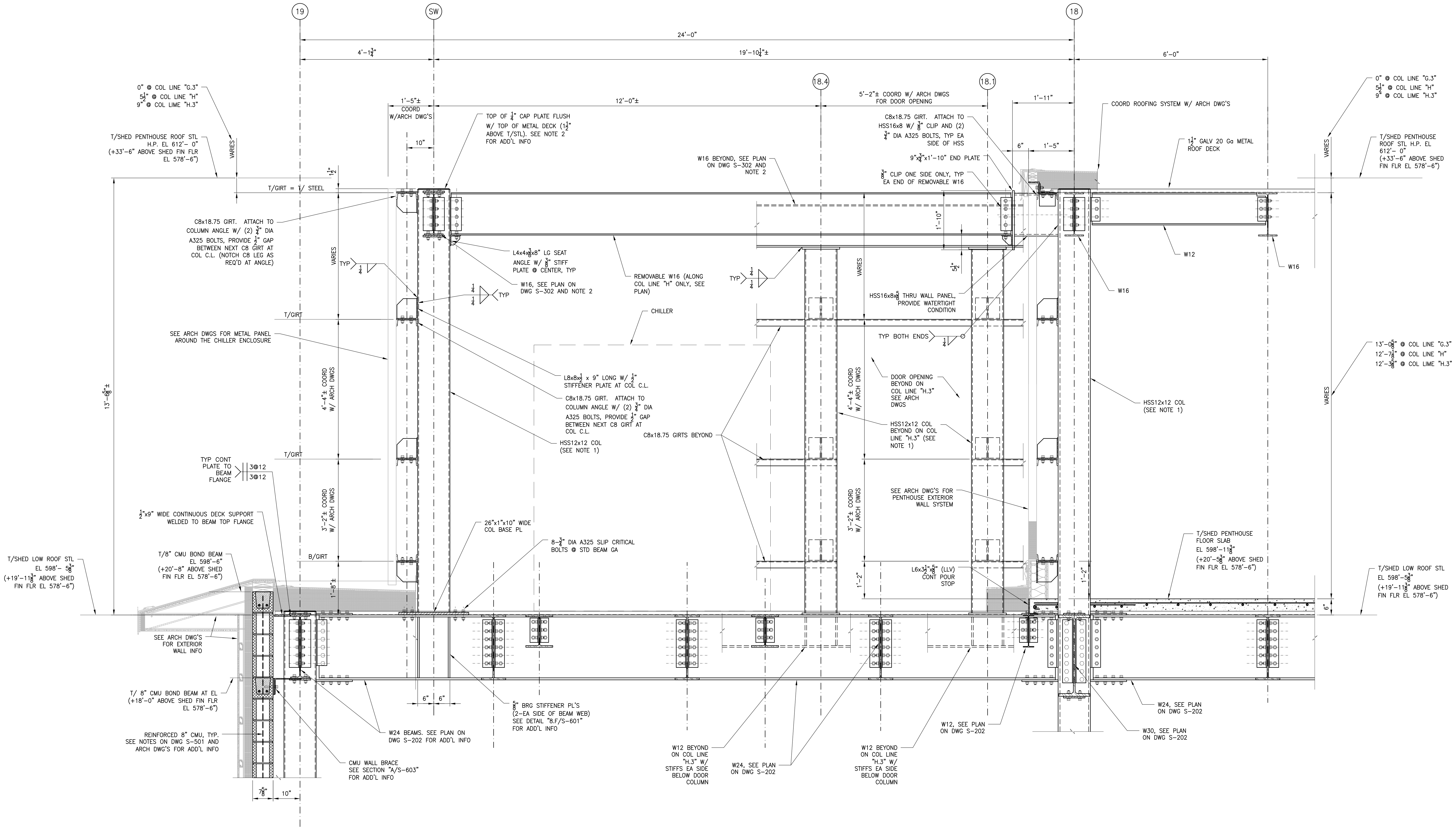
C SECTION – SHED BLDG
S-604 3/4"=1'-0"


H.3
TOP OF 1/4" CAP PLATE FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 2 FOR ADD'L INFO
COORD ROOFING SYSTEM W/ ARCH DWG'S
1 1/2" GALV 20 Ga METAL ROOF DECK. NOTCH DECK AROUND HSS COLUMN AND TOP FLANGE PLATE AS REQ'D. SEE DWG S-601 FOR DECK SUPPORT AT COLUMN
T/SHED PENTHOUSE ROOF STL L.P. EL 611'-3" (+32'-9" ABOVE SHED FIN FLR EL 578'-6")
1'-5"± COORD W/ARCH DWG'S
SEE SECT "A/S-604" FOR BLOCKING SUPPORT ANGLES
T/GIRT = T/ STEEL
SLOPE 9" TO COL LINE "G.3"
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L. (NOTCH C8 LEG AS REQ'D AT ANGLE)
W16, SEE PLAN ON DWG S-302 AND NOTE 2
W16, SEE PLAN ON DWG S-302 AND NOTE 2
TYP
L8x8x3/4 x 9" LONG W/ 1/2" STIFFENER PLATE AT COL C.L.
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L.
T/GIRT
4'-4"± TO LOWER GIRTS, SEE SECTION "D/S-603" FOR LOWER DETAIL
HSS12x12 COL (SEE NOTE 1)
10"

TYPICAL PENTHOUSE HIGH ROOF EXTERIOR WALL AT COLUMNS @ LOW POINT

D SECTION – SHED BLDG
S-604 3/4"=1'-0"

NOTES:
1. SEE PLAN ON DWG S-302 AND COLUMN SCHEDULE ON DWG S-701 FOR ADD'L INFO NOT SHOWN.
2. SEE MOMENT CONNECTION DETAILS ON DWG S-602 FOR ADD'L INFO NOT SHOWN.
3. SEE SECT "C/S-604" FOR TYPICAL HIGH ROOF EXTERIOR WALL BETWEEN COLUMNS NOT SHOWN.


19
SW
18
18.4
18.1
24'-0"
4'-1 1/2"
19'-10 1/2"±
6'-0"
12'-0"±
1'-5"± COORD W/ARCH DWG'S
0" @ COL LINE "G.3"
5 1/4" @ COL LINE "H"
9" @ COL LINE "H.3"
T/SHED PENTHOUSE ROOF STL H.P. EL 612'-0" (+33'-6" ABOVE SHED FIN FLR EL 578'-6")
TOP OF 1/4" CAP PLATE FLUSH W/ TOP OF METAL DECK (1 1/2" ABOVE T/STL). SEE NOTE 2 FOR ADD'L INFO
5'-2"± COORD W/ ARCH DWGS FOR DOOR OPENING
1'-11"
COORD ROOFING SYSTEM W/ ARCH DWG'S
C8x18.75 GIRT. ATTACH TO HSS16x8 W/ 3/8" CLIP AND (2) 3/4" DIA A325 BOLTS, TYP EA SIDE OF HSS
1 1/2" GALV 20 Ga METAL ROOF DECK
W16 BEYOND, SEE PLAN ON DWG S-302 AND NOTE 2
9"x3/4"x1'-10" END PLATE
3/8" CLIP ONE SIDE ONLY, TYP EA END OF REMOVABLE W16
0" @ COL LINE "G.3"
5 1/4" @ COL LINE "H"
9" @ COL LINE "H.3"
T/SHED PENTHOUSE ROOF STL H.P. EL 612'-0" (+33'-6" ABOVE SHED FIN FLR EL 578'-6")
T/GIRT = T/ STEEL
VARIES
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L. (NOTCH C8 LEG AS REQ'D AT ANGLE)
L4x4x3/8x8" LG SEAT ANGLE W/ 3/8" STIFF PLATE @ CENTER, TYP
REMOVABLE W16 (ALONG COL LINE "H" ONLY, SEE PLAN)
W16, SEE PLAN ON DWG S-302 AND NOTE 2
W12
W16
W16
1'-10"
TYP
HSS16x8x1/2 THRU WALL PANEL. PROVIDE WATERTIGHT CONDITION
CHILLER
T/GIRT
SEE ARCH DWGS FOR METAL PANEL AROUND THE CHILLER ENCLOSURE
TYP BOTH ENDS
4'-4"± COORD W/ ARCH DWGS
DOOR OPENING BEYOND ON COL LINE "H.3" SEE ARCH DWGS
13'-0 1/2" @ COL LINE "G.3"
12'-7 1/4" @ COL LINE "H"
12'-3 1/2" @ COL LINE "H.3"
L8x8x3/4 x 9" LONG W/ 1/2" STIFFENER PLATE AT COL C.L.
C8x18.75 GIRT. ATTACH TO COLUMN ANGLE W/ (2) 3/4" DIA A325 BOLTS, PROVIDE 1/2" GAP BETWEEN NEXT C8 GIRT AT COL C.L.
HSS12x12 COL (SEE NOTE 1)
C8x18.75 GIRTS BEYOND
HSS12x12 COL BEYOND ON COL LINE "H.3" (SEE NOTE 1)
HSS12x12 COL (SEE NOTE 1)
13'-8"±
TYP CONT PLATE TO BEAM FLANGE
3@12
T/GIRT
SEE ARCH DWG'S FOR PENTHOUSE EXTERIOR WALL SYSTEM
3'-2"± COORD W/ ARCH DWGS
3/4"x9" WIDE CONTINUOUS DECK SUPPORT WELDED TO BEAM TOP FLANGE
26"x1"x10" WIDE COL BASE PL
8-3/4" DIA A325 SLIP CRITICAL BOLTS @ STD BEAM GA
T/SHED PENTHOUSE FLOOR SLAB EL 598'-11 1/2" (+20'-5 1/2" ABOVE SHED FIN FLR EL 578'-6")
T/SHED LOW ROOF STL EL 598'-5 1/2" (+19'-11 1/2" ABOVE SHED FIN FLR EL 578'-6")
T/8" CMU BOND BEAM EL 598'-6" (+20'-6" ABOVE SHED FIN FLR EL 578'-6")
B/GIRT
L6x3 1/2x5/16 (LLV) CONT POUR STOP
1'-2"
6"
T/SHED LOW ROOF STL EL 598'-5 1/2" (+19'-11 1/2" ABOVE SHED FIN FLR EL 578'-6")
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
T/ 8" CMU BOND BEAM AT EL (+18'-0" ABOVE SHED FIN FLR EL 578'-6")
5/8" BRG STIFFENER PL'S (2-EA SIDE OF BEAM WEB) SEE DETAIL "B.F/S-601" FOR ADD'L INFO
W24 BEAMS. SEE PLAN ON DWG S-202 FOR ADD'L INFO
REINFORCED 8" CMU, TYP. SEE NOTES ON DWG S-501 AND ARCH DWG'S FOR ADD'L INFO
CMU WALL BRACE SEE SECTION "A/S-603" FOR ADD'L INFO
W12 BEYOND ON COL LINE "H.3" W/ STIFFS EA SIDE BELOW DOOR COLUMN
W24, SEE PLAN ON DWG S-202
W12 BEYOND ON COL LINE "H.3" W/ STIFFS EA SIDE BELOW DOOR COLUMN
W12, SEE PLAN ON DWG S-202
W24, SEE PLAN ON DWG S-202
W30, SEE PLAN ON DWG S-202
6" 6"
7/8"
10"
VARIES

E SECTION – SHED BLDG AT COL LINE "H"
S-604 3/4"=1'-0"

NOTES:
1. SEE PLAN ON DWG S-302 AND COLUMN SCHEDULE ON DWG S-701 FOR ADD'L INFO NOT SHOWN.
2. SEE MOMENT CONNECTION DETAILS ON DWG S-602 FOR ADD'L INFO NOT SHOWN.
3. SEE SECT "A/S-604" FOR TYPICAL HIGH ROOF EXTERIOR WALL BETWEEN COLUMNS NOT SHOWN.
4. ALL EXPOSED CHILLER ENCLOSURE STEEL MEMBERS INCLUDING BEAMS, COLUMNS, GIRTS AND CONNECTIONS SHALL BE HOT-DIPPED GALVANIZED.
5. SECTION SIMILAR ALONG COL LINE "G.3" W/O DOOR OPENING.

ONEIDA COUNTY NEW YORK 1798

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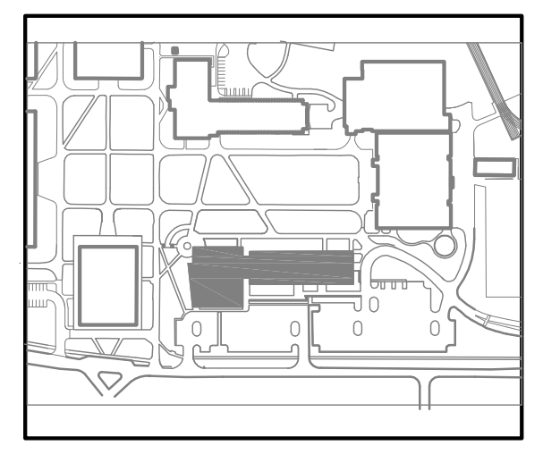
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

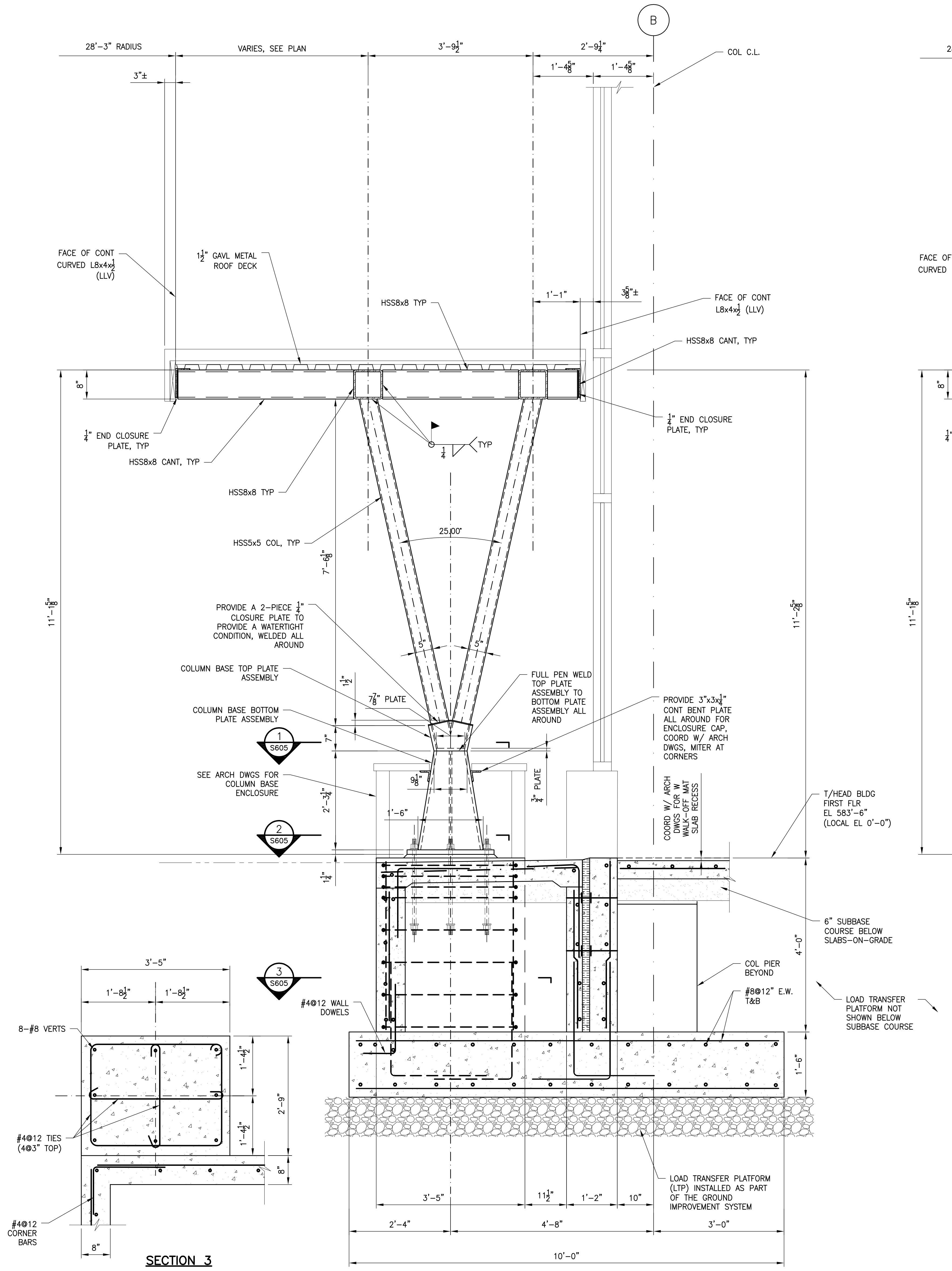
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SHED BUILDING – HIGH ROOF FRAMING SECTIONS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

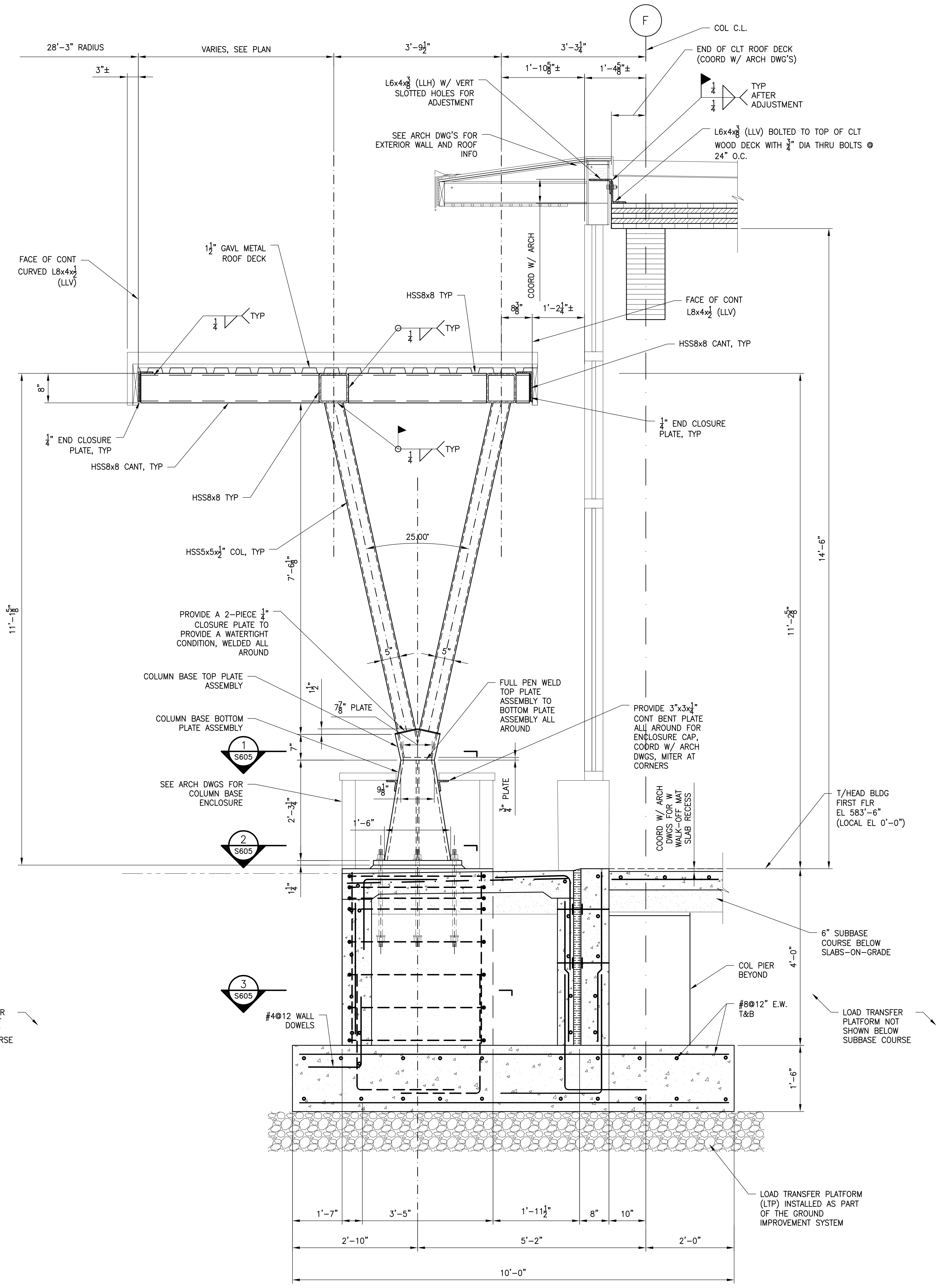
S-604


B
28'-3" RADIUS
VARIES, SEE PLAN
3'-9½"
2'-9¼"
1'-4⅝"
1'-4⅝"
COL C.L.
3"±
FACE OF CONT CURVED L8x4x½ (LLV)
1½" GAVL METAL ROOF DECK
HSS8x8 TYP
1'-1"
3⅝"±
FACE OF CONT L8x4x½ (LLV)
HSS8x8 CANT, TYP
8"
¼" END CLOSURE PLATE, TYP
HSS8x8 CANT, TYP
¼ TYP
¼" END CLOSURE PLATE, TYP
HSS8x8 TYP
HSS5x5 COL, TYP
25.00°
7'-6⅛"
11'-1⅝"
11'-2⅝"
PROVIDE A 2-PIECE ¼" CLOSURE PLATE TO PROVIDE A WATERTIGHT CONDITION, WELDED ALL AROUND
5"
5"
COLUMN BASE TOP PLATE ASSEMBLY
1½"
7⅞" PLATE
FULL PEN WELD TOP PLATE ASSEMBLY TO BOTTOM PLATE ASSEMBLY ALL AROUND
COLUMN BASE BOTTOM PLATE ASSEMBLY
PROVIDE 3"x3x¼" CONT BENT PLATE ALL AROUND FOR ENCLOSURE CAP, COORD W/ ARCH DWGS, MITER AT CORNERS
1 S605
7"
SEE ARCH DWGS FOR COLUMN BASE ENCLOSURE
9⅛"
¾" PLATE
COORD W/ ARCH DWGS FOR W WALK-OFF MAT SLAB RECESS
2'-3¼"
1'-6"
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
2 S605
1¼"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
4'-0"
3 S605
COL PIER BEYOND
#4@12 WALL DOWELS
#8@12" E.W. T&B
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
1'-6"
3'-5"
11½"
1'-2"
10"
2'-4"
4'-8"
3'-0"
10'-0"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
3'-5"
1'-8½"
1'-8½"
8-#8 VERTS
1'-4½"
1'-4½"
2'-9"
#4@12 TIES (4@3" TOP)
8"
#4@12 CORNER BARS
8"

SECTION 3

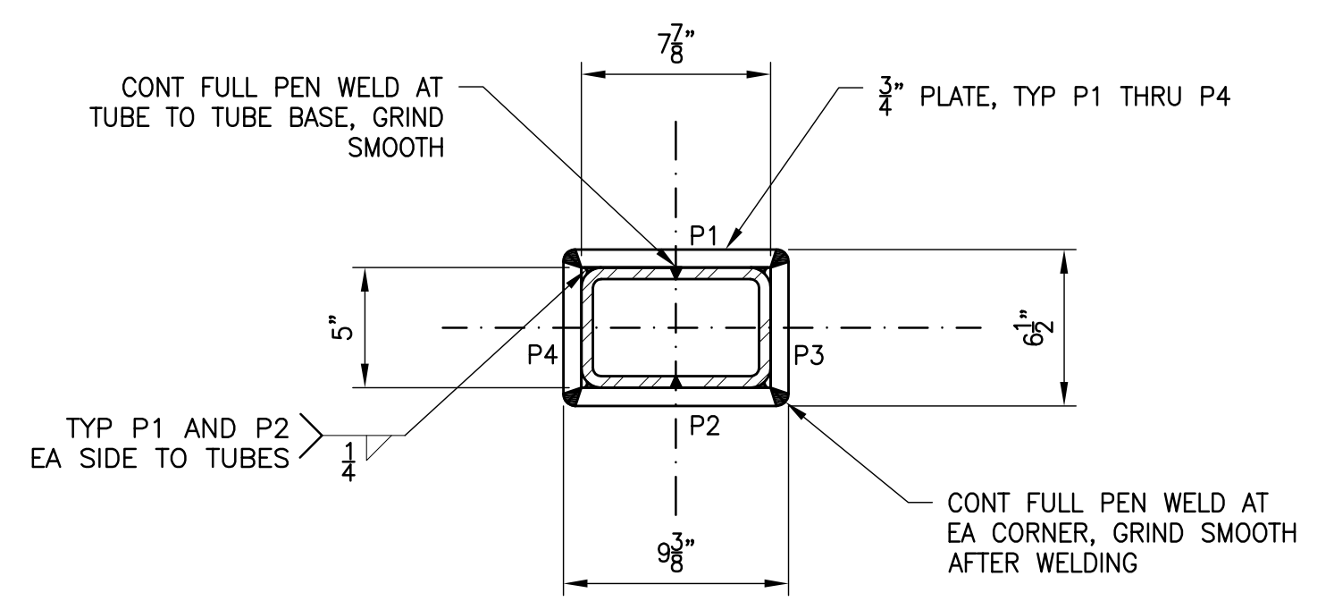
A SECTION – MAIN CANOPY
S-605 3/4"=1'-0"

NOTE:
1. SEE DRAWING S-402 FOR ADDITIONAL REINFORCEMENT AND DIMENSIONAL INFO NOT SHOWN AT FOUNDATION LEVEL.

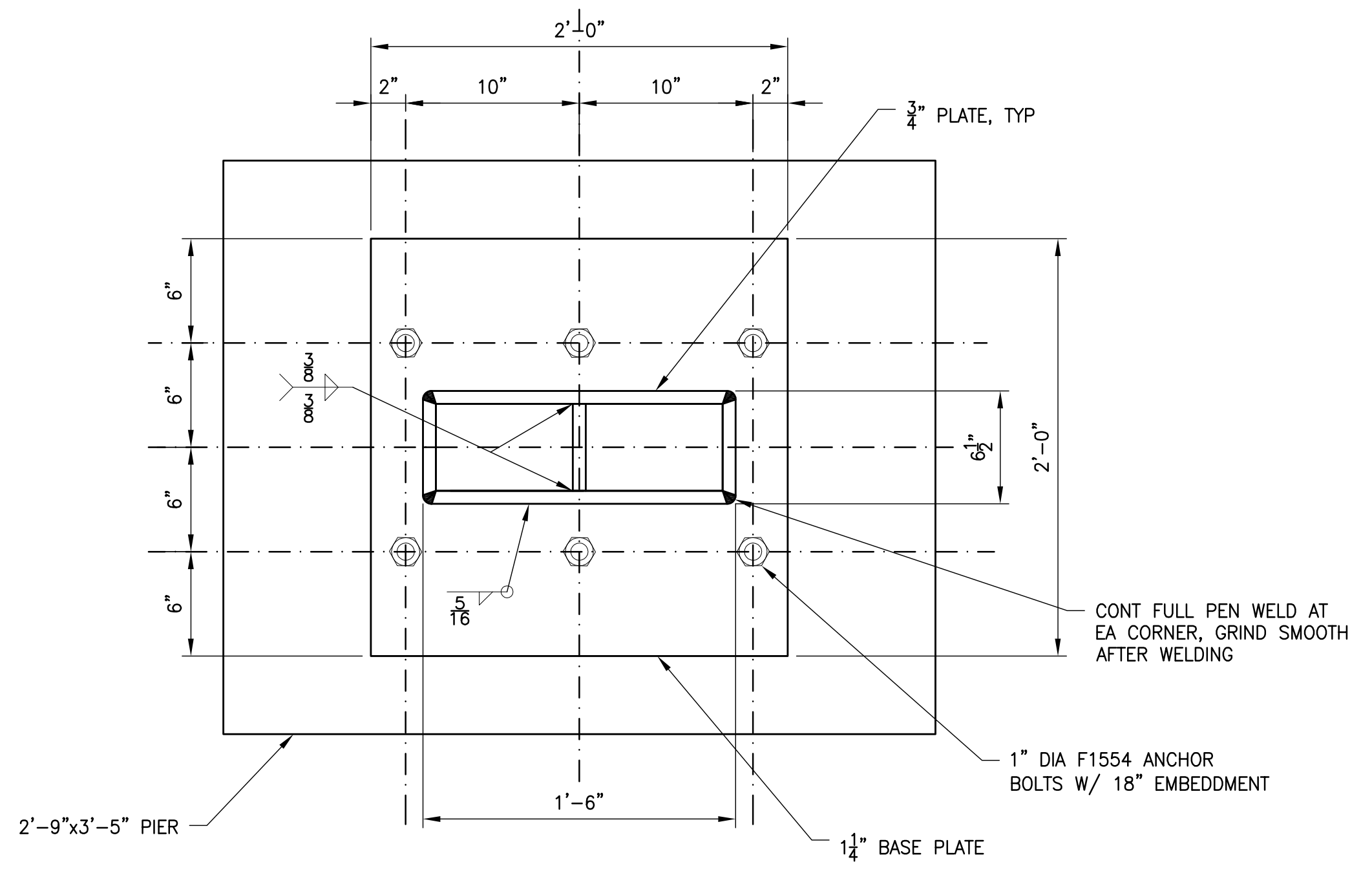

F
COL C.L.
28'-3" RADIUS
VARIES, SEE PLAN
3'-9½"
3'-3¼"
3"±
1'-10⅝"±
1'-4⅝"±
END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
L6x4x⅜ (LLH) W/ VERT SLOTTED HOLES FOR ADJESTMENT
¼ ¼ TYP AFTER ADJUSTMENT
SEE ARCH DWG'S FOR EXTERIOR WALL AND ROOF INFO
L6x4x⅜ (LLV) BOLTED TO TOP OF CLT WOOD DECK WITH ¾" DIA THRU BOLTS @ 24" O.C.
FACE OF CONT CURVED L8x4x½ (LLV)
1½" GAVL METAL ROOF DECK
COORD W/ ARCH
¼ TYP
HSS8x8 TYP
8⅜"
1'-2¼"±
FACE OF CONT L8x4x½ (LLV)
¼ TYP
HSS8x8 CANT, TYP
8"
¼" END CLOSURE PLATE, TYP
¼" END CLOSURE PLATE, TYP
HSS8x8 CANT, TYP
¼ TYP
HSS8x8 TYP
25.00°
HSS5x5x½" COL, TYP
7'-6⅛"
14'-6"
11'-1⅝"
11'-2⅝"
PROVIDE A 2-PIECE ¼" CLOSURE PLATE TO PROVIDE A WATERTIGHT CONDITION, WELDED ALL AROUND
5"
5"
COLUMN BASE TOP PLATE ASSEMBLY
1½"
7⅞" PLATE
FULL PEN WELD TOP PLATE ASSEMBLY TO BOTTOM PLATE ASSEMBLY ALL AROUND
COLUMN BASE BOTTOM PLATE ASSEMBLY
PROVIDE 3"x3x¼" CONT BENT PLATE ALL AROUND FOR ENCLOSURE CAP, COORD W/ ARCH DWGS, MITER AT CORNERS
1 S605
7"
SEE ARCH DWGS FOR COLUMN BASE ENCLOSURE
9⅛"
¾" PLATE
COORD W/ ARCH DWGS FOR W WALK-OFF MAT SLAB RECESS
2'-3¼"
1'-6"
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
2 S605
1¼"
6" SUBBASE COURSE BELOW SLABS-ON-GRADE
4'-0"
COL PIER BEYOND
3 S605
#4@12 WALL DOWELS
#8@12" E.W. T&B
LOAD TRANSFER PLATFORM NOT SHOWN BELOW SUBBASE COURSE
1'-6"
LOAD TRANSFER PLATFORM (LTP) INSTALLED AS PART OF THE GROUND IMPROVEMENT SYSTEM
1'-7"
3'-5"
1'-11½"
8"
10"
2'-10"
5'-2"
2'-0"
10'-0"

B SECTION – REAR CANOPY
S-605 3/4"=1'-0"

NOTE:
1. SEE DRAWING S-402 FOR ADDITIONAL REINFORCEMENT AND DIMENSIONAL INFO NOT SHOWN AT FOUNDATION LEVEL.


7⅞"
CONT FULL PEN WELD AT TUBE TO TUBE BASE, GRIND SMOOTH
¾" PLATE, TYP P1 THRU P4
P1
5"
P4
P3
6½"
P2
TYP P1 AND P2 EA SIDE TO TUBES
¼
CONT FULL PEN WELD AT EA CORNER, GRIND SMOOTH AFTER WELDING
9⅜"

1 SECTION – TOP PLATE ASSEMBLY
S605 1 1/2"=1'-0"


2'-0"
2"
10"
10"
2"
¾" PLATE, TYP
6"
6"
6"
6"
⅜ ⅜
6½"
2'-0"
5/16
CONT FULL PEN WELD AT EA CORNER, GRIND SMOOTH AFTER WELDING
1" DIA F1554 ANCHOR BOLTS W/ 18" EMBEDDMENT
1'-6"
2'-9"x3'-5" PIER
1¼" BASE PLATE

2 SECTION – BOTTOM PLATE ASSEMBLY
S605 1 1/2"=1'-0"

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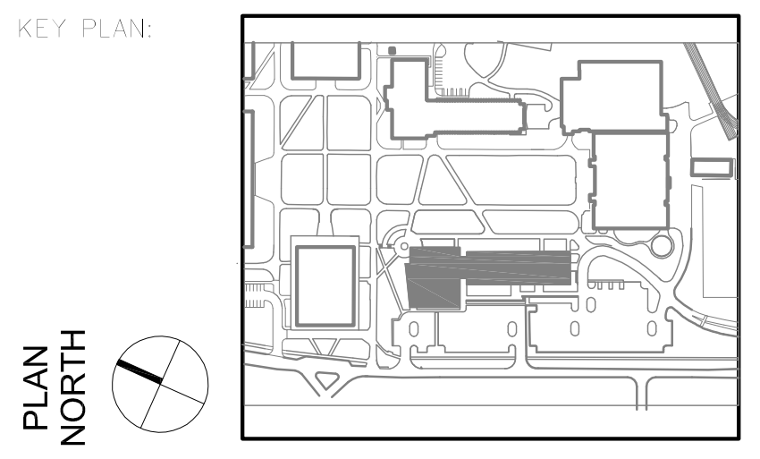


PROJECT:

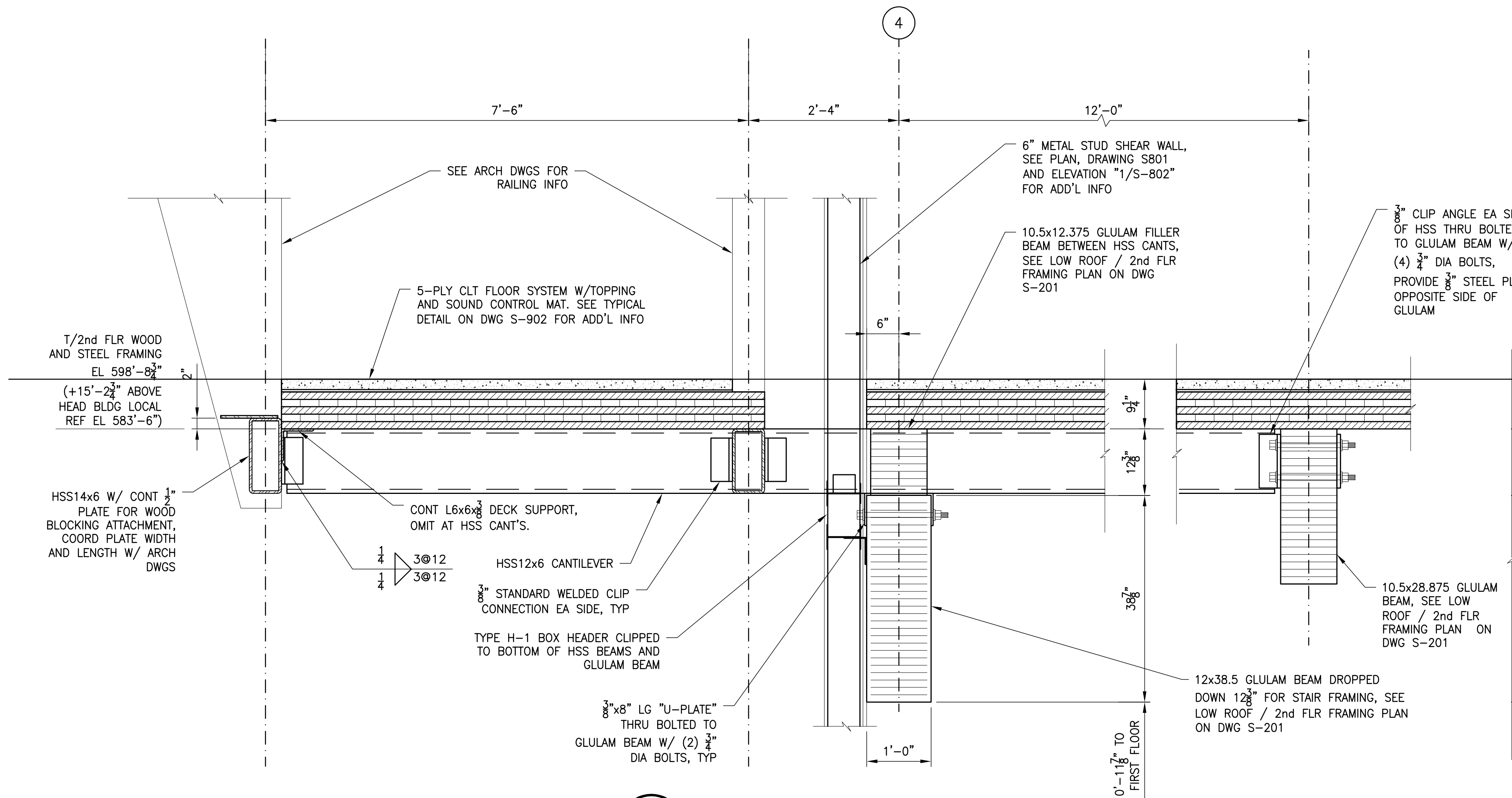
SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

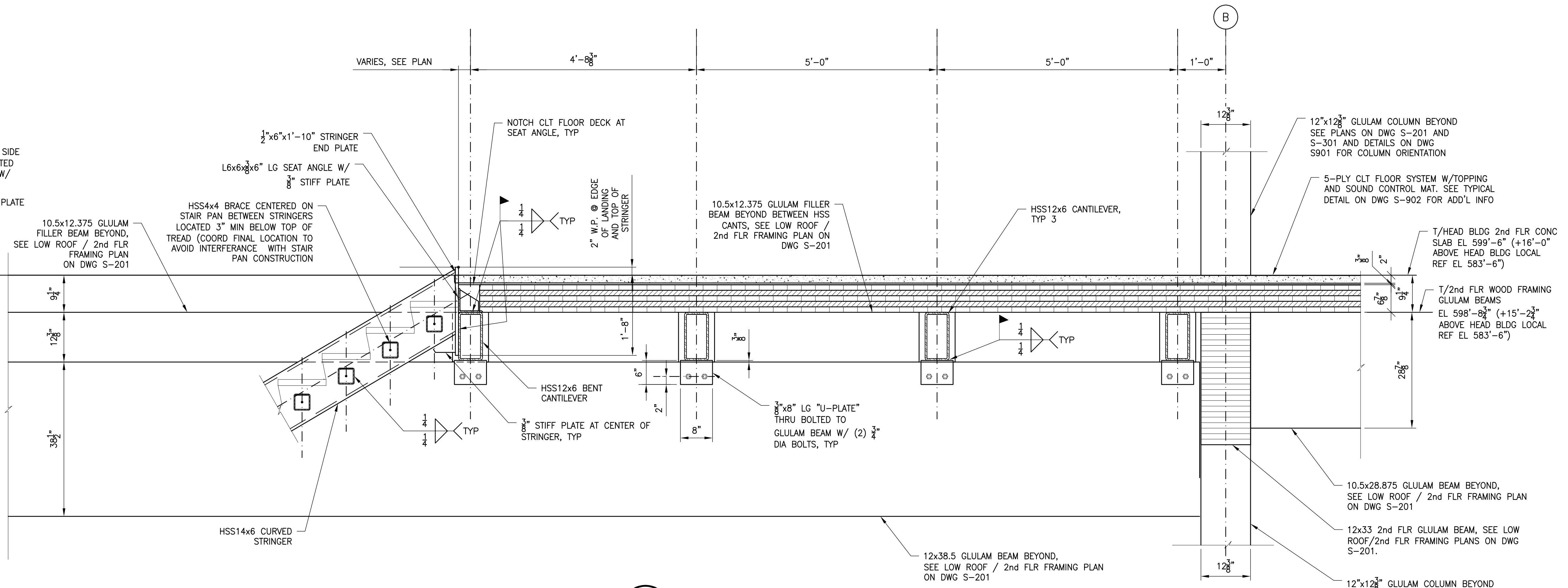
HEAD BUILDING –
CANOPY SECTIONS
AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

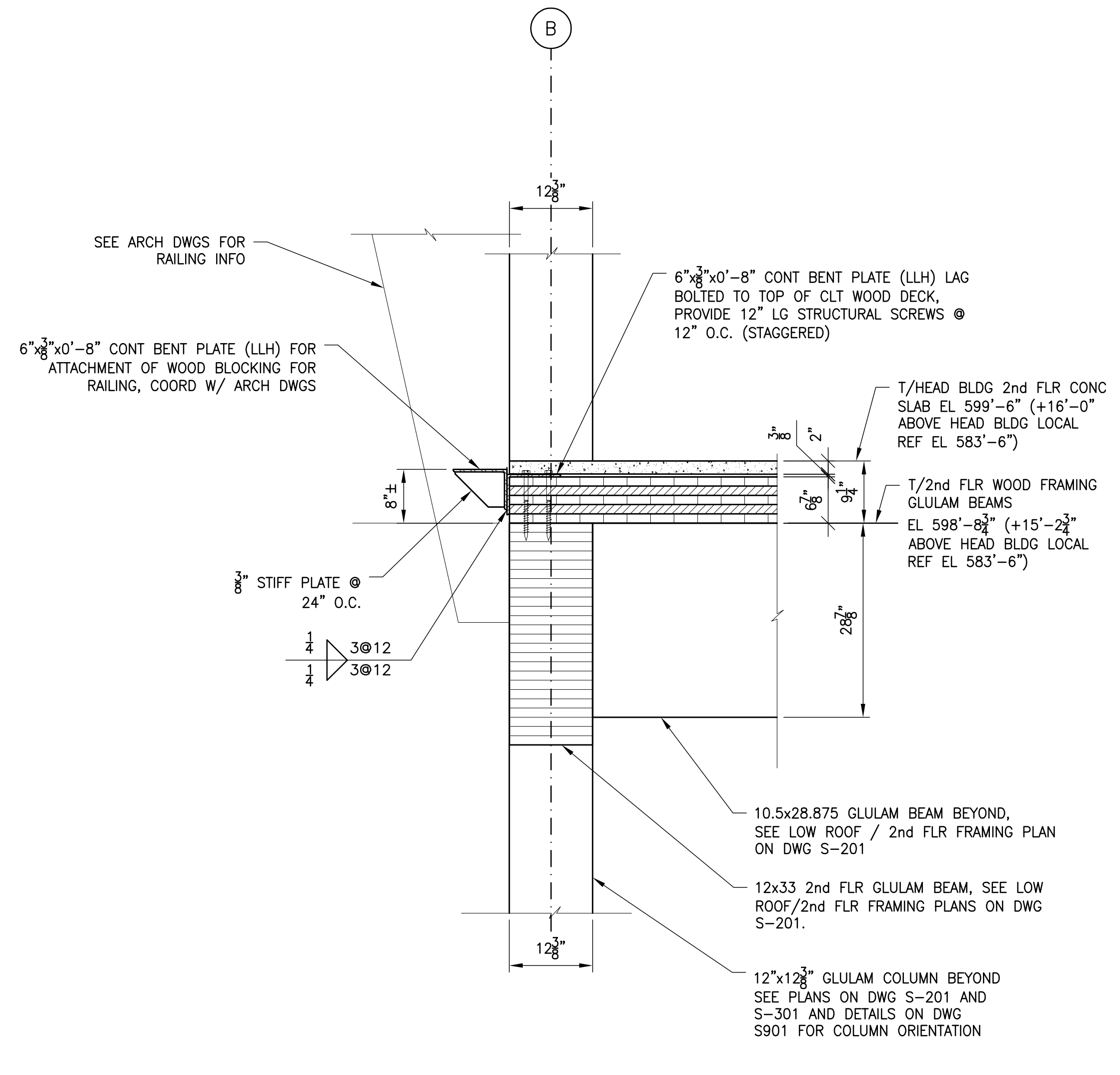
S-605


4
7'-6"
2'-4"
12'-0"
SEE ARCH DWGS FOR RAILING INFO
5-PLY CLT FLOOR SYSTEM W/TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S-902 FOR ADD'L INFO
T/2nd FLR WOOD AND STEEL FRAMING EL 598'-8¾" (+15'-2¾" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
2"
HSS14x6 W/ CONT ½" PLATE FOR WOOD BLOCKING ATTACHMENT, COORD PLATE WIDTH AND LENGTH W/ ARCH DWGS
CONT L6x6x⅜ DECK SUPPORT, OMIT AT HSS CANT'S.
¼ 3@12
¼ 3@12
HSS12x6 CANTILEVER
⅜" STANDARD WELDED CLIP CONNECTION EA SIDE, TYP
TYPE H-1 BOX HEADER CLIPPED TO BOTTOM OF HSS BEAMS AND GLULAM BEAM
⅜"x8" LG "U-PLATE" THRU BOLTED TO GLULAM BEAM W/ (2) ¾" DIA BOLTS, TYP
6" METAL STUD SHEAR WALL, SEE PLAN, DRAWING S801 AND ELEVATION "1/S-802" FOR ADD'L INFO
10.5x12.375 GLULAM FILLER BEAM BETWEEN HSS CANTS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
6"
⅜" CLIP ANGLE EA SIDE OF HSS THRU BOLTED TO GLULAM BEAM W/ (4) ¾" DIA BOLTS, PROVIDE ⅜" STEEL PLATE OPPOSITE SIDE OF GLULAM
9¼"
12⅜"
38⅞"
10.5x28.875 GLULAM BEAM, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12x38.5 GLULAM BEAM DROPPED DOWN 12⅜" FOR STAIR FRAMING, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
1'-0"
10'-11⅞" TO FIN FIRST FLOOR

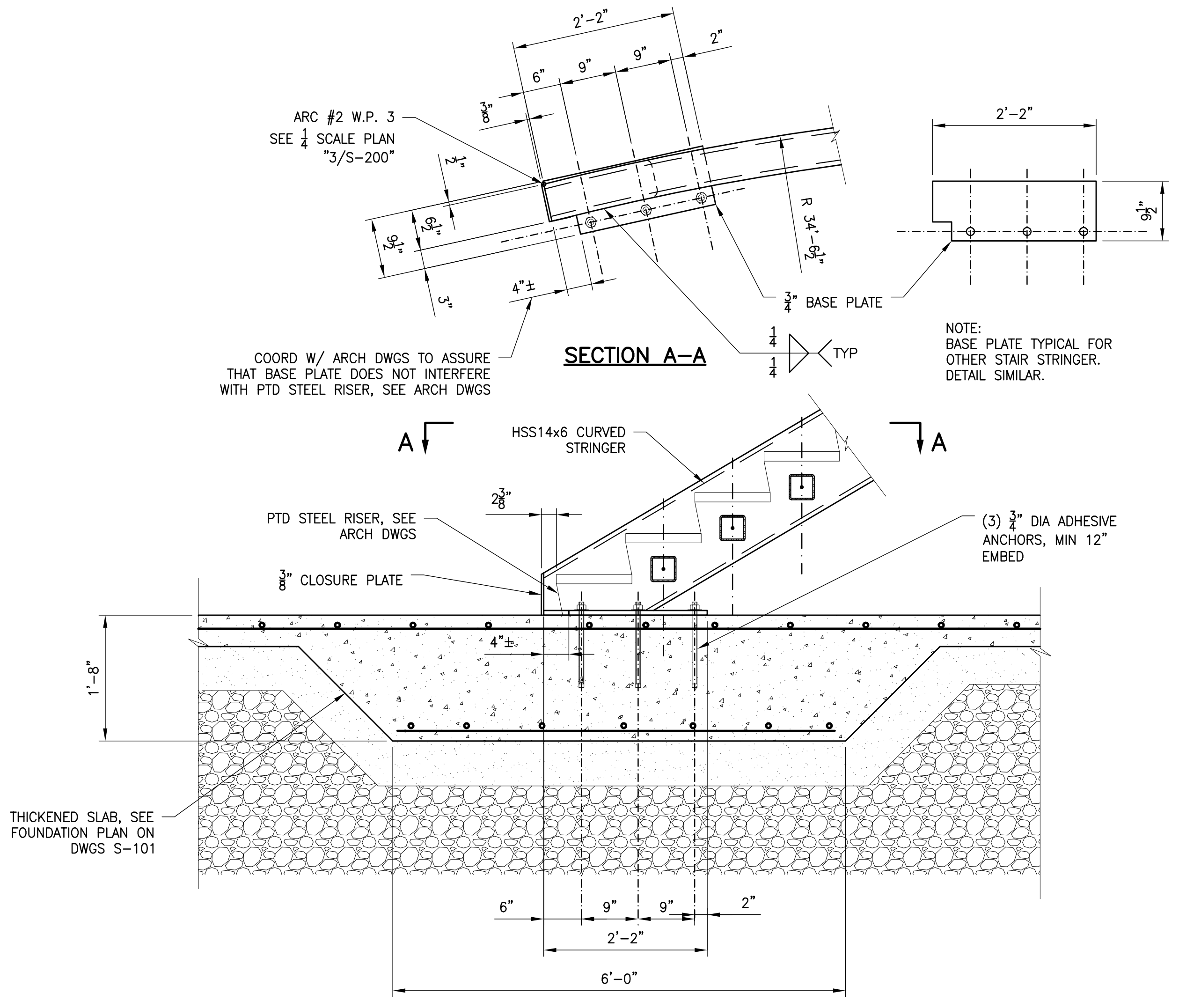
A
S-606
SECTION – HEAD BLDG
3/4"=1'-0"


B
VARIES, SEE PLAN
4'-8⅜"
5'-0"
5'-0"
1'-0"
10.5x12.375 GLULAM FILLER BEAM BEYOND, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
½"x6"x1'-10" STRINGER END PLATE
L6x6x⅜x6" LG SEAT ANGLE W/ ⅜" STIFF PLATE
HSS4x4 BRACE CENTERED ON STAIR PAN BETWEEN STRINGERS LOCATED 3" MIN BELOW TOP OF TREAD (COORD FINAL LOCATION TO AVOID INTERFERANCE WITH STAIR PAN CONSTRUCTION
NOTCH CLT FLOOR DECK AT SEAT ANGLE, TYP
¼ TYP
¼
2" W.P. @ EDGE OF LANDING AND TOP OF STRINGER
9¼"
12⅜"
38½"
1'-8"
6"
2"
8"
⅜"
HSS12x6 BENT CANTILEVER
⅜" STIFF PLATE AT CENTER OF STRINGER, TYP
¼ TYP
¼
HSS14x6 CURVED STRINGER
10.5x12.375 GLULAM FILLER BEAM BEYOND BETWEEN HSS CANTS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
HSS12x6 CANTILEVER, TYP 3
⅜"x8" LG "U-PLATE" THRU BOLTED TO GLULAM BEAM W/ (2) ¾" DIA BOLTS, TYP
12x38.5 GLULAM BEAM BEYOND, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12⅜"
12"x12⅜" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION
5-PLY CLT FLOOR SYSTEM W/TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S-902 FOR ADD'L INFO
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-8¾" (+15'-2¾" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
⅜"
2"
6⅞"
9¼"
28⅞"
10.5x28.875 GLULAM BEAM BEYOND, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12x33 2nd FLR GLULAM BEAM, SEE LOW ROOF/2nd FLR FRAMING PLANS ON DWG S-201.
12"x12⅜" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION

B
S-606
SECTION – HEAD BLDG
3/4"=1'-0"


B
12⅜"
SEE ARCH DWGS FOR RAILING INFO
6"x⅜"x0'-8" CONT BENT PLATE (LLH) FOR ATTACHMENT OF WOOD BLOCKING FOR RAILING, COORD W/ ARCH DWGS
6"x⅜"x0'-8" CONT BENT PLATE (LLH) LAG BOLTED TO TOP OF CLT WOOD DECK, PROVIDE 12" LG STRUCTURAL SCREWS @ 12" O.C. (STAGGERED)
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-8¾" (+15'-2¾" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
⅜"
2"
6⅞"
9¼"
8"±
28⅞"
⅜" STIFF PLATE @ 24" O.C.
¼ 3@12
¼ 3@12
10.5x28.875 GLULAM BEAM BEYOND, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12x33 2nd FLR GLULAM BEAM, SEE LOW ROOF/2nd FLR FRAMING PLANS ON DWG S-201.
12"x12⅜" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION
12⅜"

C
S-606
SECTION – HEAD BLDG
3/4"=1'-0"


2'-2"
6"
9"
9"
2"
⅜"
ARC #2 W.P. 3 SEE ¼ SCALE PLAN "3/S-200"
½"
6½"
9½"
3"
4"±
R 34'-6½"
¾" BASE PLATE
2'-2"
9½"
COORD W/ ARCH DWGS TO ASSURE THAT BASE PLATE DOES NOT INTERFERE WITH PTD STEEL RISER, SEE ARCH DWGS
SECTION A-A
¼ TYP
¼
NOTE: BASE PLATE TYPICAL FOR OTHER STAIR STRINGER. DETAIL SIMILAR.
A
A
HSS14x6 CURVED STRINGER
2⅜"
PTD STEEL RISER, SEE ARCH DWGS
⅜" CLOSURE PLATE
(3) ¾" DIA ADHESIVE ANCHORS, MIN 12" EMBED
4"±
1'-8"
THICKENED SLAB, SEE FOUNDATION PLAN ON DWGS S-101
6"
9"
9"
2"
2'-2"
6'-0"

D
S-606
SECTION – HEAD BLDG
3/4"=1'-0"

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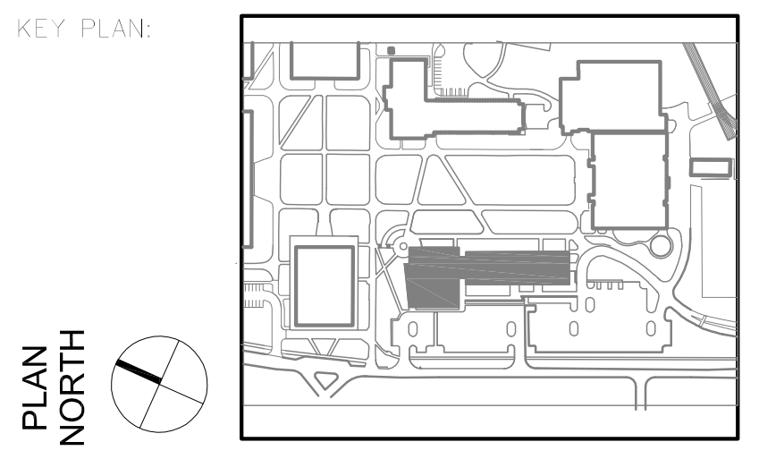
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

SCIENCE &
TECHNOLOGY BUILDING

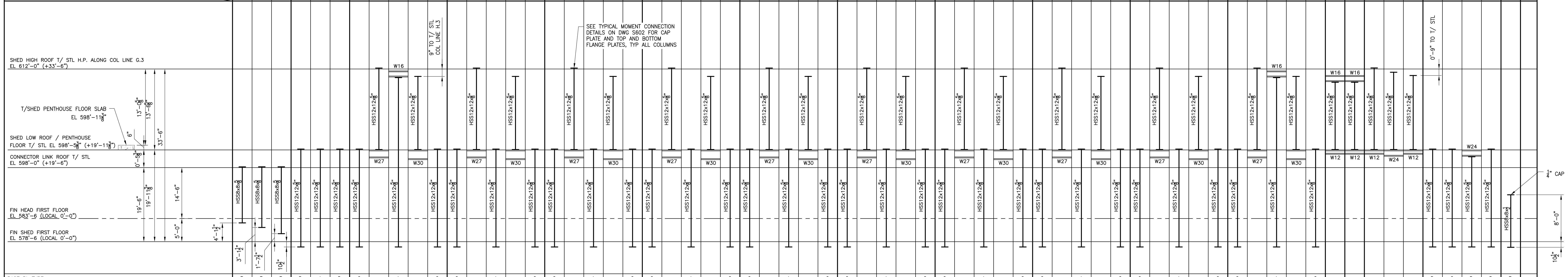
DRAWING TITLE:

HEAD BUILDING –
MAIN LOBBY STAIR
SECTIONS AND
DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-606

COLUMN SCHEDULE – SHED BUILDING


SHED HIGH ROOF T/ STL H.P. ALONG COL LINE G.3
EL 612'-0" (+33'-6")
T/SHED PENTHOUSE FLOOR SLAB
EL 598'-11 3/8"
SHED LOW ROOF / PENTHOUSE
FLOOR T/ STL EL 598'-5 3/8" (+19'-11 3/8")
CONNECTOR LINK ROOF T/ STL
EL 598'-0" (+19'-6")
FIN HEAD FIRST FLOOR
EL 583'-6 (LOCAL 0'-0")
FIN SHED FIRST FLOOR
EL 578'-6 (LOCAL 0'-0")
13'-0 5/8"
13'-6 5/8"
6"
33'-6"
0'-5 3/8"
19'-6"
19'-11 3/8"
14'-6"
5'-0"
4'-1 1/2"
3'-1 1/2"
1'-7 1/2"
10 1/2"
9" TO T/ STL COL LINE H.3
SEE TYPICAL MOMENT CONNECTION DETAILS ON DWG S602 FOR CAP PLATE AND TOP AND BOTTOM FLANGE PLATES, TYP ALL COLUMNS
0'-9" TO T/ STL
HSS8x8x5/8
HSS12x12x5/8
HSS8x8x1/2
W16
W27
W30
W12
W24
3/4" CAP PLATE
8'-0"
10 1/2"

COLUMN MARK	7.1			8			9				
ELEVATION	A.7	H.2	C.4	G	H	J	G	G.3	H	H.3	J
BASE PL TYPE	B	B	B	D	A	D	C		A		C
BASE PL-SIZE	16"x1"x1'-4"	16"x1"x1'-4"	16"x1"x1'-4"	18"x1"x1'-6"	18"x1"x1'-6"	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 4)	27k	30k	27k	45k	50k	55k	60k	---	103k	---	63k
UN-FACTORED DEAD LOADS (KIPS)	18k	35k	18k	35k	80k	40k	60k	---	132k	---	42k
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	45k	65k	45k	80k	130k	95k	120k	---	235k	---	105k
TOTAL UN-FACTORED LOADS (KIPS)											

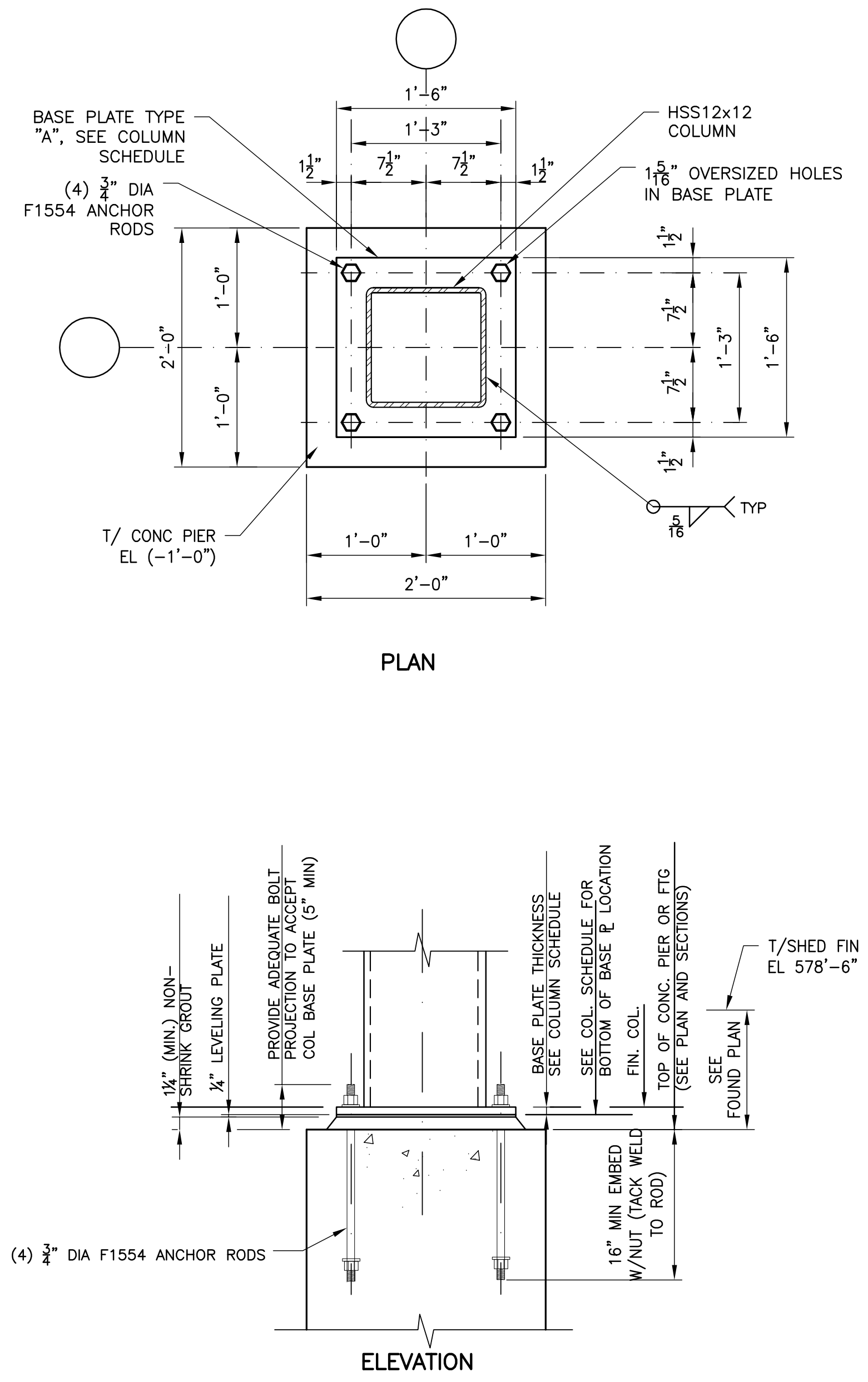
COLUMN MARK	10					11					12				
ELEVATION	G	G.3	H	H.3	J	G	G.3	H	H.3	J	G	G.3	H	H.3	J
BASE PL TYPE	C		A		C	C		A		C	C		A		C
BASE PL-SIZE	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 4)	75k	---	130k	---	70k	75k	---	130k	---	70k	75k	---	130k	---	70k
UN-FACTORED DEAD LOADS (KIPS)	85k	---	190k	---	50k	85k	---	190k	---	50k	85k	---	190k	---	50k
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	160k	---	320k	---	120k	160k	---	320k	---	120k	160k	---	320k	---	120k
TOTAL UN-FACTORED LOADS (KIPS)															

COLUMN MARK	13					14					15				
ELEVATION	G	G.3	H	H.3	J	G	G.3	H	H.3	J	G	G.3	H	H.3	J
BASE PL TYPE	C		A		C	C		A		C	C		A		C
BASE PL-SIZE	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 4)	75k	---	130k	---	70k	75k	---	130k	---	70k	75k	---	130k	---	70k
UN-FACTORED DEAD LOADS (KIPS)	85k	---	190k	---	50k	85k	---	190k	---	50k	85k	---	190k	---	50k
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	160k	---	320k	---	120k	160k	---	320k	---	120k	160k	---	320k	---	120k
TOTAL UN-FACTORED LOADS (KIPS)															

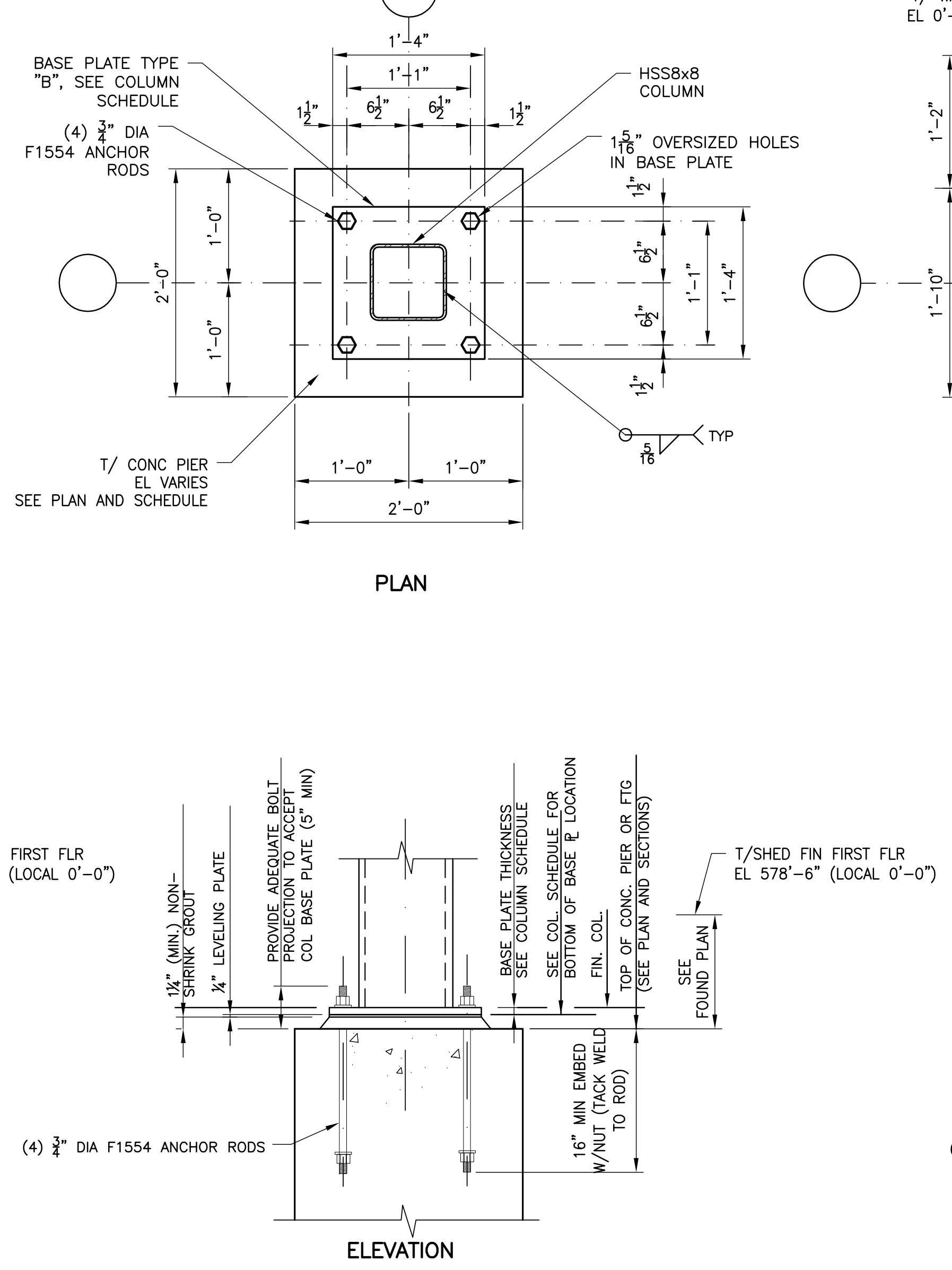
COLUMN MARK	16					17					18				
ELEVATION	G	G.3	H	H.3	J	G	G.3	H	H.3	J	G	G.3	H	H.3	J
BASE PL TYPE	C		A		C	C		A		C	C		A		C
BASE PL-SIZE	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"	SEE SECTIONS	18"x1"x1'-6"
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 4)	75k	---	130k	---	70k	75k	---	130k	---	70k	75k	---	130k	---	70k
UN-FACTORED DEAD LOADS (KIPS)	85k	---	190k	---	50k	85k	---	190k	---	50k	85k	---	190k	---	50k
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	160k	---	320k	---	120k	160k	---	320k	---	120k	160k	---	320k	---	120k
TOTAL UN-FACTORED LOADS (KIPS)															

COLUMN MARK	18.1	18.4	SW (SCREEN WALL)			19				
ELEVATION	H.3	H.3	G.3	H	H.3	G	H	H.4	J	X1 THRU X7
BASE PL TYPE						D	C	D	D	B
BASE PL-SIZE	SEE SECTIONS	SEE SECTIONS	SEE SECTIONS	SEE SECTIONS	SEE SECTIONS	18"x1"x1'-6"	18"x1"x1'-6"	18"x1"x1'-6"	18"x1"x1'-6"	16"x1"x1'-4"
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 4)	---	---	---	---	---	40k	60k	40k	40k	---
UN-FACTORED DEAD LOADS (KIPS)	---	---	---	---	---	20k	40k	20k	20k	---
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	---	---	---	---	---	60k	100k	60k	60k	---
TOTAL UN-FACTORED LOADS (KIPS)										

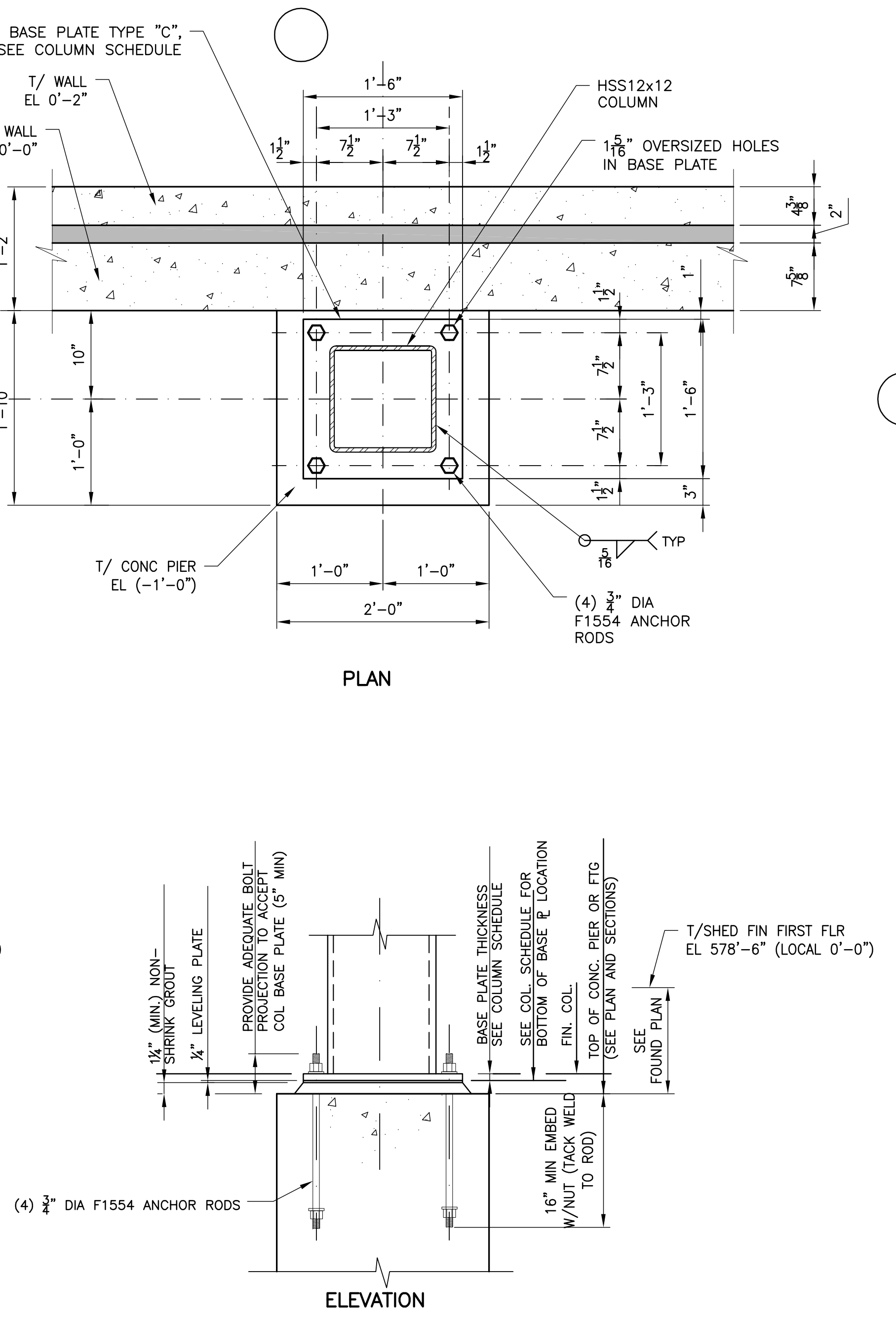
NOTES:
1. DIMENSIONS SHOWN ARE TO BOTTOM OF COLUMN BASE PLATES.
2. ALL BASE PLATE DIMENSIONS ARE SHOWN IN INCHES.
3. COORDINATE TOP OF COLUMNS W/TOP OF STEEL SHOWN ON PLANS AND SECTIONS.
4. COLUMN SPREAD FOOTING LOADS ARE PROVIDED FOR USE BY THE SPECIALTY CONTRACTOR'S GROUND IMPROVEMENT DELEGATED DESIGN PROFESSIONAL ENGINEER. ALL LOADS ARE UN-FACTORED MAXIMUM DESIGN LOADS.


BASE PLATE TYPE "A", SEE COLUMN SCHEDULE
(4) 3/4" DIA F1554 ANCHOR RODS
HSS12x12 COLUMN
1 5/16" OVERSIZED HOLES IN BASE PLATE
1'-6"
1'-3"
1 1/2"
7 1/2"
7 1/2"
1 1/2"
2'-0"
1'-0"
1'-0"
1'-3"
1'-6"
T/ CONC PIER EL (-1'-0")
5/16 TYP
1'-0"
1'-0"
2'-0"
PLAN
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
BASE PLATE THICKNESS SEE COLUMN SCHEDULE
SEE COL. SCHEDULE FOR BOTTOM OF BASE PL LOCATION
FIN. COL.
TOP OF CONC. PIER OR FTG (SEE PLAN AND SECTIONS)
SEE FOUND PLAN
T/SHED FIN FIRST FLR EL 578'-6" (LOCAL 0'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
(4) 3/4" DIA F1554 ANCHOR RODS
ELEVATION

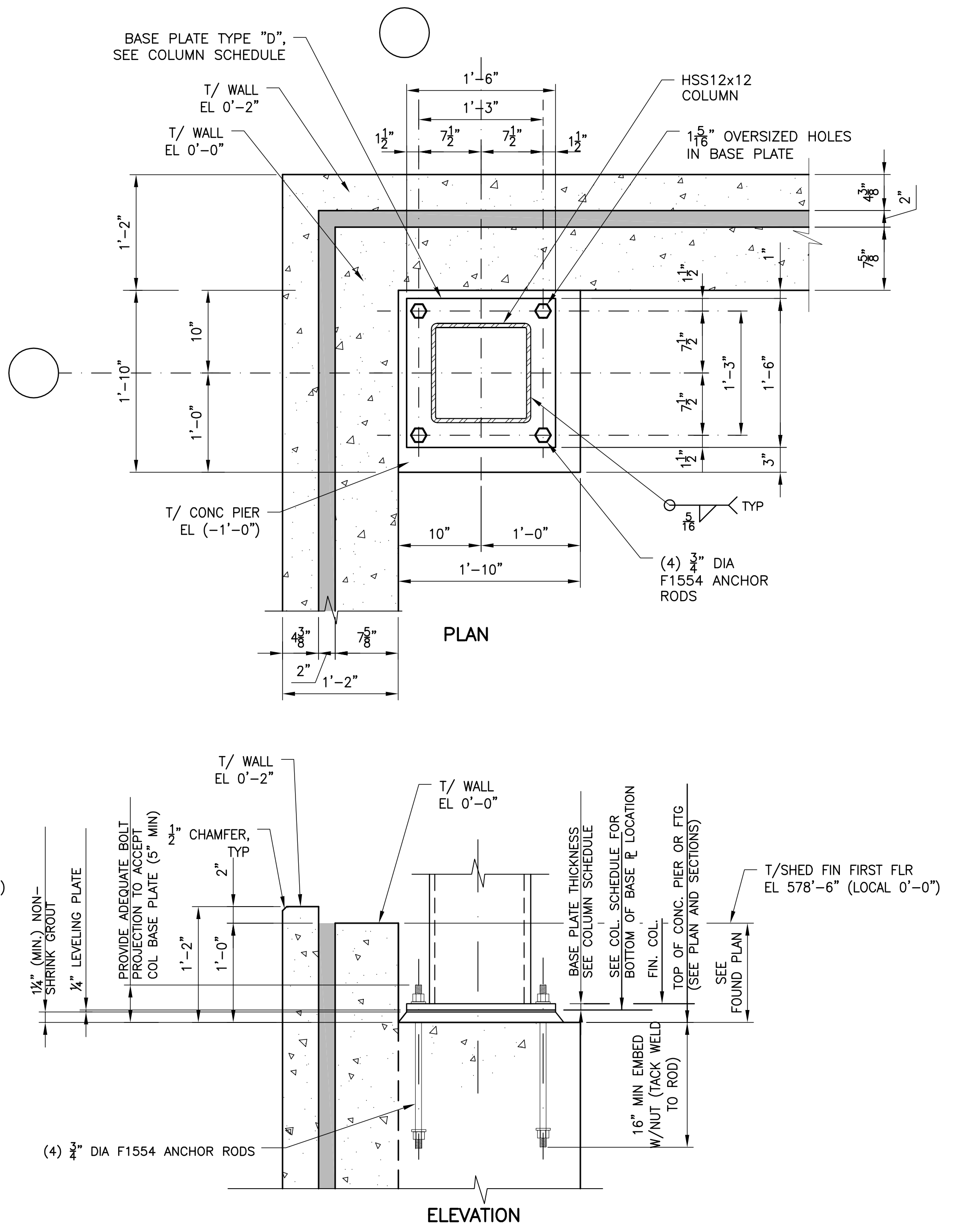
1 / S-701 DETAIL TYPE "A" BASE PLATE
1"=1'-0"


BASE PLATE TYPE "B", SEE COLUMN SCHEDULE
(4) 3/4" DIA F1554 ANCHOR RODS
HSS8x8 COLUMN
1 5/16" OVERSIZED HOLES IN BASE PLATE
1'-4"
1'-1"
1 1/2"
6 1/2"
6 1/2"
1 1/2"
2'-0"
1'-0"
1'-0"
1'-1"
1'-4"
T/ CONC PIER EL VARIES SEE PLAN AND SCHEDULE
5/16 TYP
1'-0"
1'-0"
2'-0"
PLAN
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
BASE PLATE THICKNESS SEE COLUMN SCHEDULE
SEE COL. SCHEDULE FOR BOTTOM OF BASE PL LOCATION
FIN. COL.
TOP OF CONC. PIER OR FTG (SEE PLAN AND SECTIONS)
SEE FOUND PLAN
T/SHED FIN FIRST FLR EL 578'-6" (LOCAL 0'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
(4) 3/4" DIA F1554 ANCHOR RODS
ELEVATION

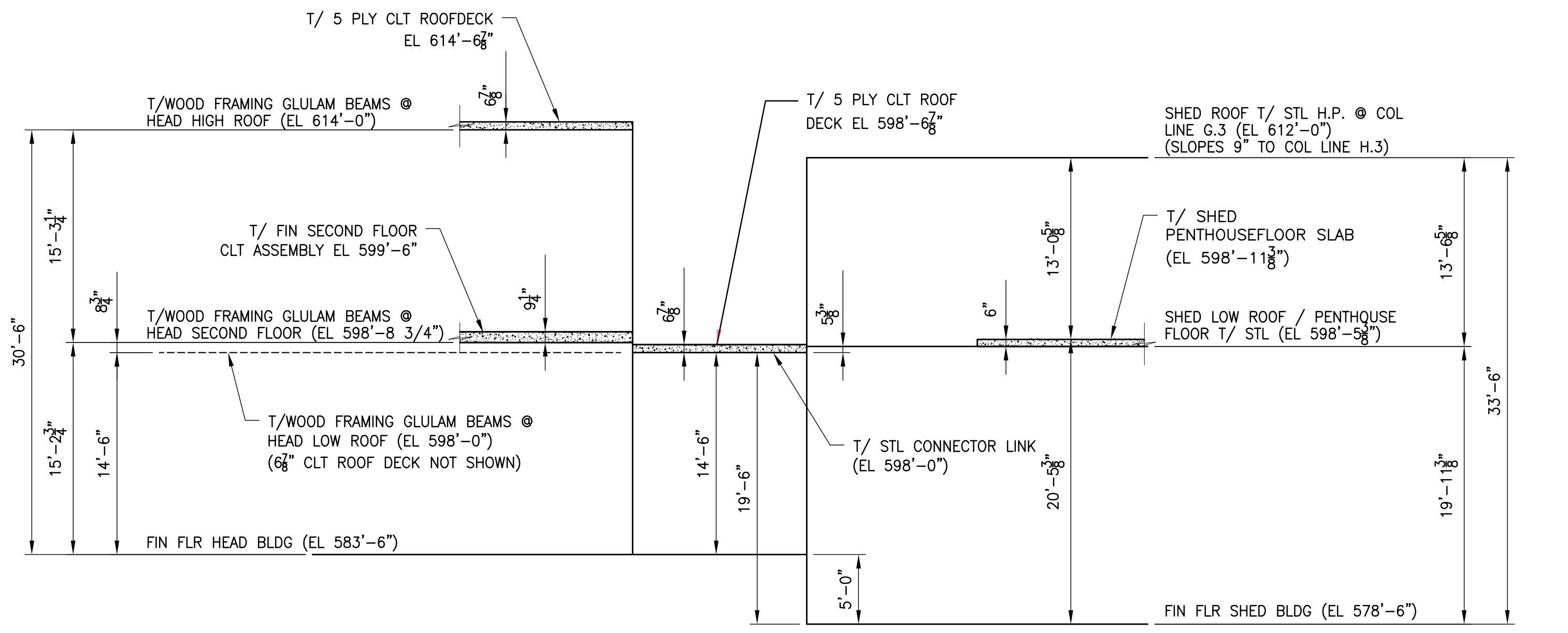
2 / S-701 DETAIL TYPE "B" BASE PLATE
1"=1'-0"


BASE PLATE TYPE "C", SEE COLUMN SCHEDULE
T/ WALL EL 0'-2"
T/ WALL EL 0'-0"
HSS12x12 COLUMN
1 5/16" OVERSIZED HOLES IN BASE PLATE
1'-6"
1'-3"
1 1/2"
7 1/2"
7 1/2"
1 1/2"
1'-2"
4 3/8"
2"
7 5/8"
1"
1'-10"
10"
1'-0"
1'-3"
1'-6"
3"
T/ CONC PIER EL (-1'-0")
5/16 TYP
(4) 3/4" DIA F1554 ANCHOR RODS
1'-0"
1'-0"
2'-0"
PLAN
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
BASE PLATE THICKNESS SEE COLUMN SCHEDULE
SEE COL. SCHEDULE FOR BOTTOM OF BASE PL LOCATION
FIN. COL.
TOP OF CONC. PIER OR FTG (SEE PLAN AND SECTIONS)
SEE FOUND PLAN
T/SHED FIN FIRST FLR EL 578'-6" (LOCAL 0'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
(4) 3/4" DIA F1554 ANCHOR RODS
ELEVATION

3 / S-701 DETAIL TYPE "C" BASE PLATE
1"=1'-0"


BASE PLATE TYPE "D", SEE COLUMN SCHEDULE
T/ WALL EL 0'-2"
T/ WALL EL 0'-0"
HSS12x12 COLUMN
1 5/16" OVERSIZED HOLES IN BASE PLATE
1'-6"
1'-3"
1 1/2"
7 1/2"
7 1/2"
1 1/2"
1'-2"
4 3/8"
2"
7 5/8"
1"
1'-10"
10"
1'-0"
1'-3"
1'-6"
3"
T/ CONC PIER EL (-1'-0")
5/16 TYP
(4) 3/4" DIA F1554 ANCHOR RODS
10"
1'-0"
1'-10"
4 3/8"
7 5/8"
2"
1'-2"
PLAN
T/ WALL EL 0'-2"
T/ WALL EL 0'-0"
1/2" CHAMFER, TYP
2"
1'-2"
1'-0"
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
BASE PLATE THICKNESS SEE COLUMN SCHEDULE
SEE COL. SCHEDULE FOR BOTTOM OF BASE PL LOCATION
FIN. COL.
TOP OF CONC. PIER OR FTG (SEE PLAN AND SECTIONS)
SEE FOUND PLAN
T/SHED FIN FIRST FLR EL 578'-6" (LOCAL 0'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
(4) 3/4" DIA F1554 ANCHOR RODS
ELEVATION

3 / S-701 DETAIL TYPE "D" BASE PLATE
1"=1'-0"


T/ 5 PLY CLT ROOFDECK EL 614'-6 7/8"
T/WOOD FRAMING GLULAM BEAMS @ HEAD HIGH ROOF (EL 614'-0")
6 7/8"
T/ FIN SECOND FLOOR CLT ASSEMBLY EL 599'-6"
T/WOOD FRAMING GLULAM BEAMS @ HEAD SECOND FLOOR (EL 598'-8 3/4")
9 1/4"
8 3/4"
15'-3 1/4"
30'-6"
15'-2 3/4"
14'-6"
T/WOOD FRAMING GLULAM BEAMS @ HEAD LOW ROOF (EL 598'-0") (6 7/8" CLT ROOF DECK NOT SHOWN)
FIN FLR HEAD BLDG (EL 583'-6")
T/ 5 PLY CLT ROOF DECK EL 598'-6 7/8"
6 7/8"
14'-6"
19'-6"
T/ STL CONNECTOR LINK (EL 598'-0")
5 3/8"
5'-0"
13'-0 5/8"
20'-5 3/8"
6"
SHED ROOF T/ STL H.P. @ COL LINE G.3 (EL 612'-0") (SLOPES 9" TO COL LINE H.3)
T/ SHED PENTHOUSEFLOOR SLAB (EL 598'-11 3/8")
SHED LOW ROOF / PENTHOUSE FLOOR T/ STL (EL 598'-5 3/8")
13'-6 5/8"
19'-11 3/8"
33'-6"
FIN FLR SHED BLDG (EL 578'-6")

BUILDING ELEVATION DIAGRAM

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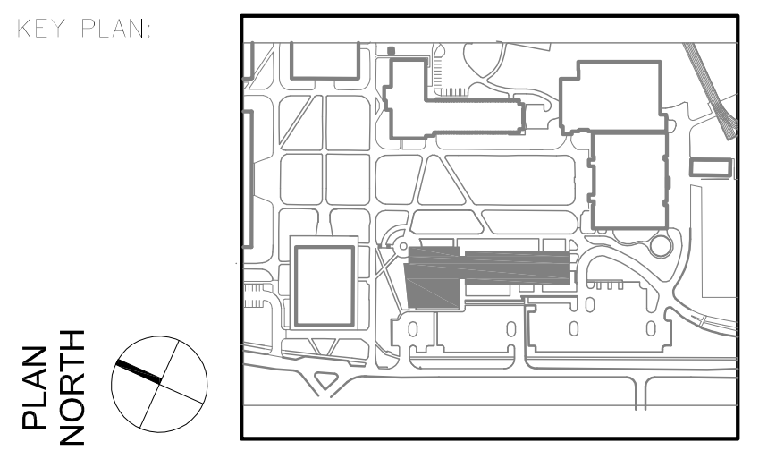
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



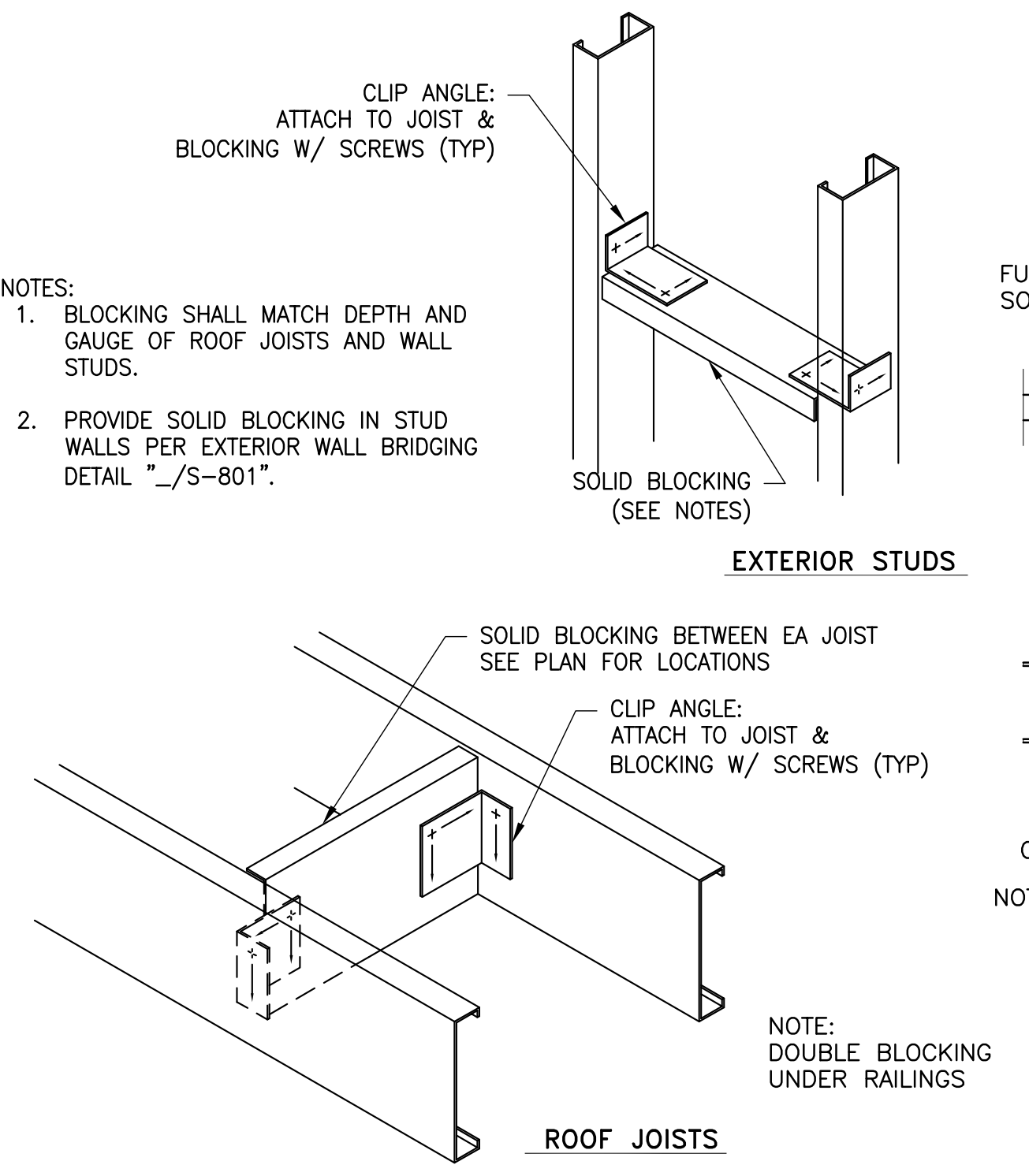
PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
SHED BUILDING – STEEL COLUMN SCHEDULE AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

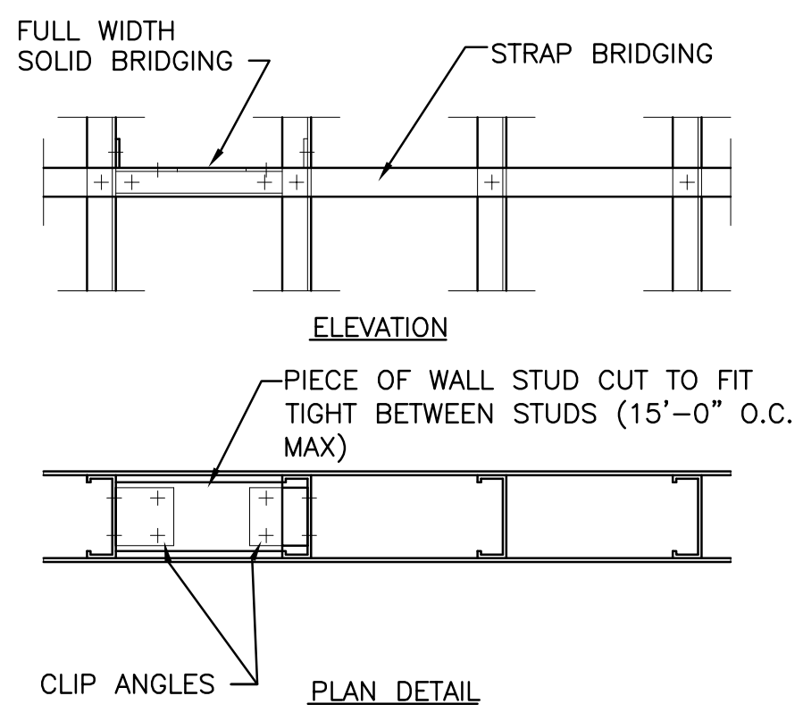
S-701

NOTES:
1. BLOCKING SHALL MATCH DEPTH AND GAUGE OF ROOF JOISTS AND WALL STUDS.
2. PROVIDE SOLID BLOCKING IN STUD WALLS PER EXTERIOR WALL BRIDGING DETAIL "_/S-801".


CLIP ANGLE:
ATTACH TO JOIST & BLOCKING W/ SCREWS (TYP)
SOLID BLOCKING (SEE NOTES)
EXTERIOR STUDS
SOLID BLOCKING BETWEEN EA JOIST SEE PLAN FOR LOCATIONS
CLIP ANGLE:
ATTACH TO JOIST & BLOCKING W/ SCREWS (TYP)
NOTE:
DOUBLE BLOCKING UNDER RAILINGS
ROOF JOISTS

1 DETAIL – SOLID BLOCKING

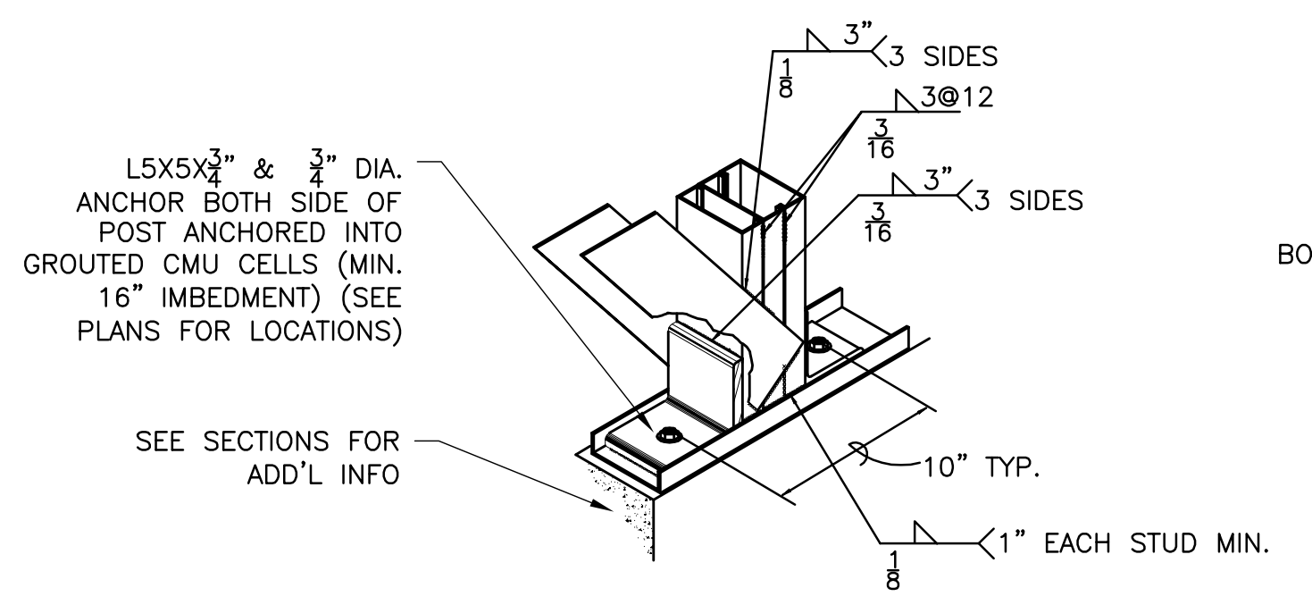
S-801 NO SCALE


FULL WIDTH SOLID BRIDGING
STRAP BRIDGING
ELEVATION
PIECE OF WALL STUD CUT TO FIT TIGHT BETWEEN STUDS (15'–0" O.C. MAX)
CLIP ANGLES
PLAN DETAIL

NOTE: STRAP BRIDGING AT 4'–0" O.C. MAX. VERTICALLY. ATTACH ENDS OF STRAP BRIDGING TO JAMB STUD, SOLID BRIDGING, OR BUILDING STRUCTURE.

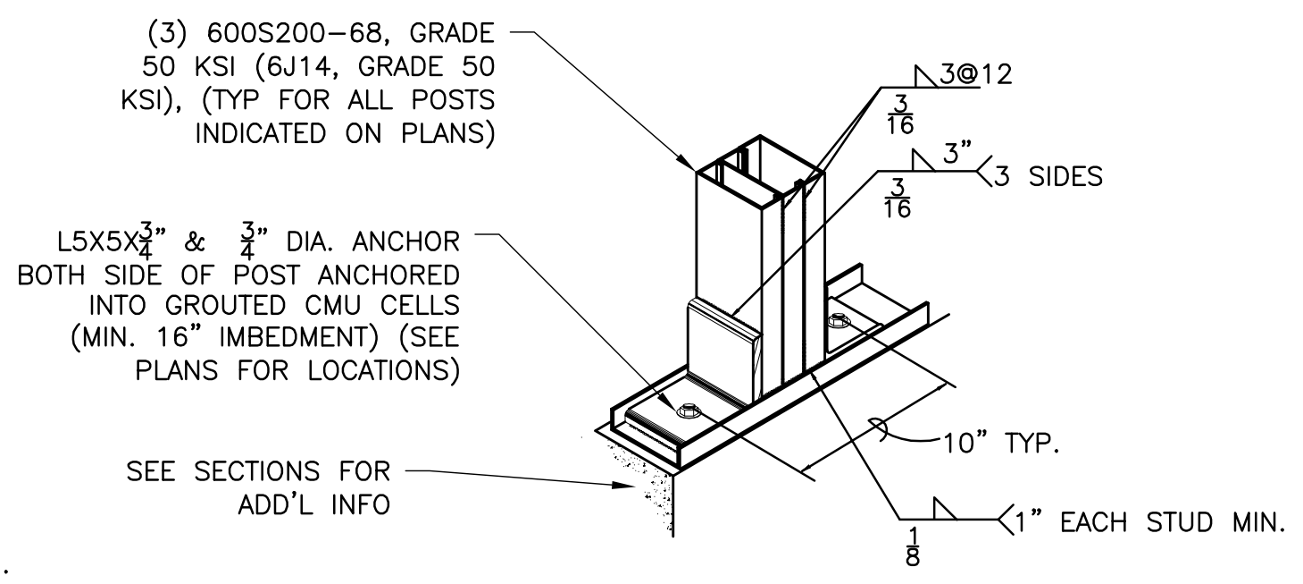
2 EXTERIOR WALL BRIDGING

S-801 NO SCALE


L5X5X$\frac{3}{4}$" & $\frac{3}{4}$" DIA. ANCHOR BOTH SIDE OF POST ANCHORED INTO GROUTED CMU CELLS (MIN. 16" IMBEDMENT) (SEE PLANS FOR LOCATIONS)
SEE SECTIONS FOR ADD'L INFO
$\frac{1}{8}$ 3" 3 SIDES
$\frac{3}{16}$ 3@12
$\frac{3}{16}$ 3" 3 SIDES
10" TYP.
$\frac{1}{8}$ 1" EACH STUD MIN.

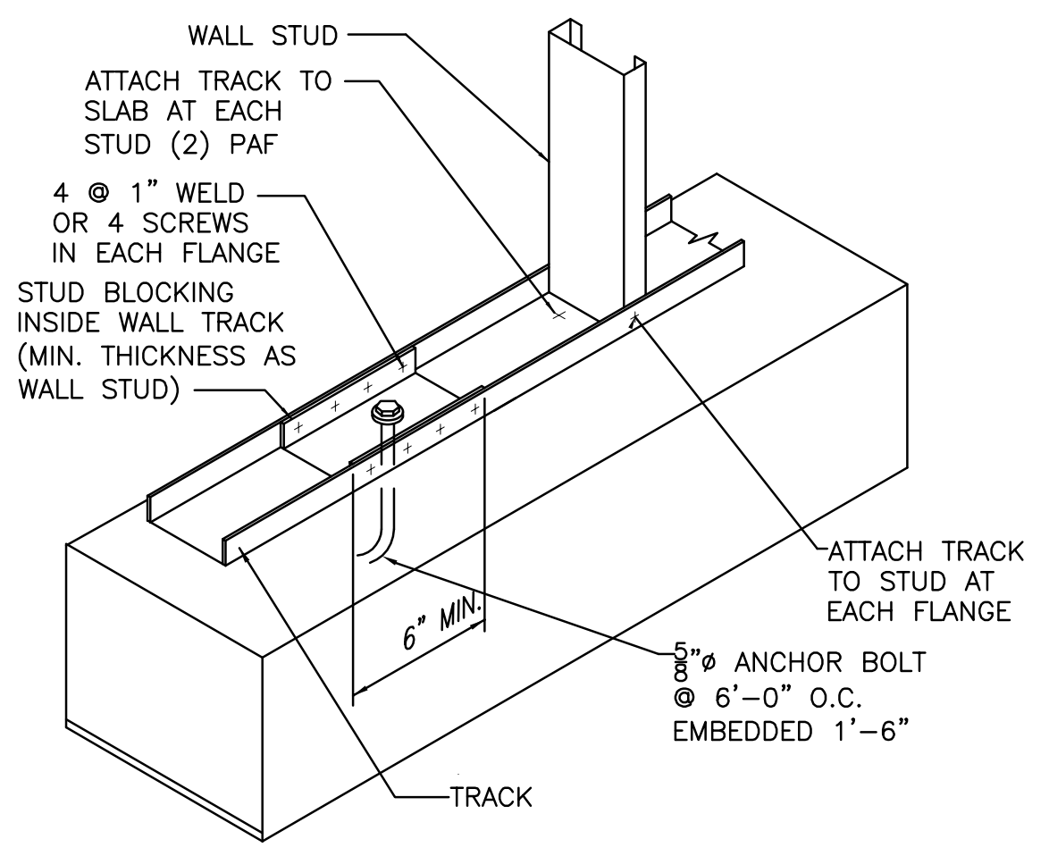
3 BRACING BASE DETAIL

S-801 NO SCALE


(3) 600S200–68, GRADE 50 KSI (6J14, GRADE 50 KSI), (TYP FOR ALL POSTS INDICATED ON PLANS)
L5X5X$\frac{3}{4}$" & $\frac{3}{4}$" DIA. ANCHOR BOTH SIDE OF POST ANCHORED INTO GROUTED CMU CELLS (MIN. 16" IMBEDMENT) (SEE PLANS FOR LOCATIONS)
SEE SECTIONS FOR ADD'L INFO
$\frac{3}{16}$ 3@12
$\frac{3}{16}$ 3" 3 SIDES
10" TYP.
$\frac{1}{8}$ 1" EACH STUD MIN.

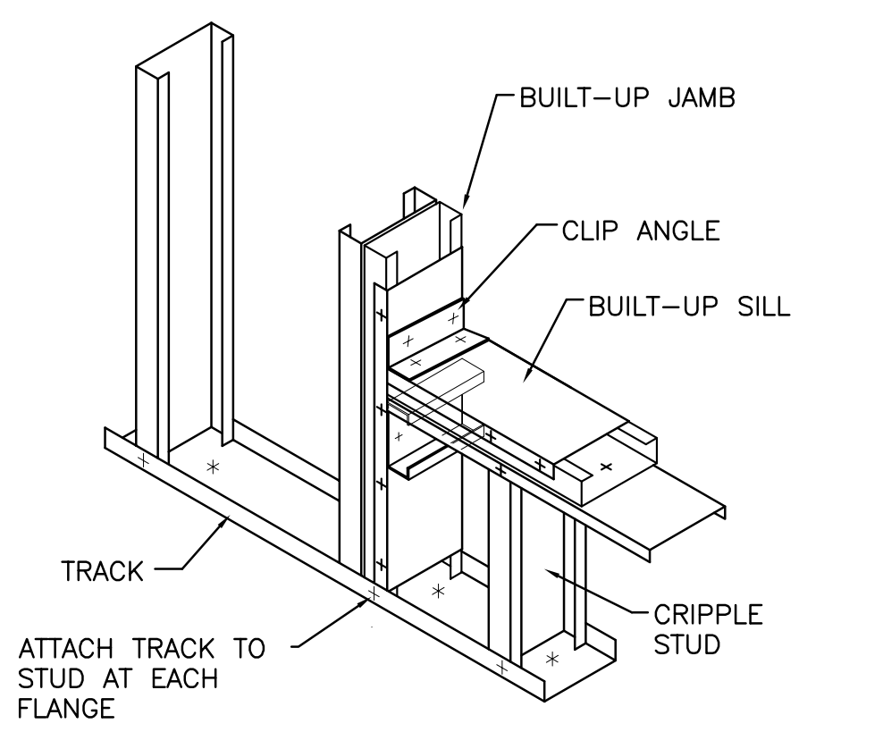
4 POST BASE DETAIL

S-801 NO SCALE


WALL STUD
ATTACH TRACK TO SLAB AT EACH STUD (2) PAF
4 @ 1" WELD OR 4 SCREWS IN EACH FLANGE
STUD BLOCKING INSIDE WALL TRACK (MIN. THICKNESS AS WALL STUD)
ATTACH TRACK TO STUD AT EACH FLANGE
$\frac{5}{8}$"ø ANCHOR BOLT @ 6'–0" O.C. EMBEDDED 1'–6"
6" MIN.
TRACK

5 WALL ATTACH. TO TOP OF FOUNDATION WALL

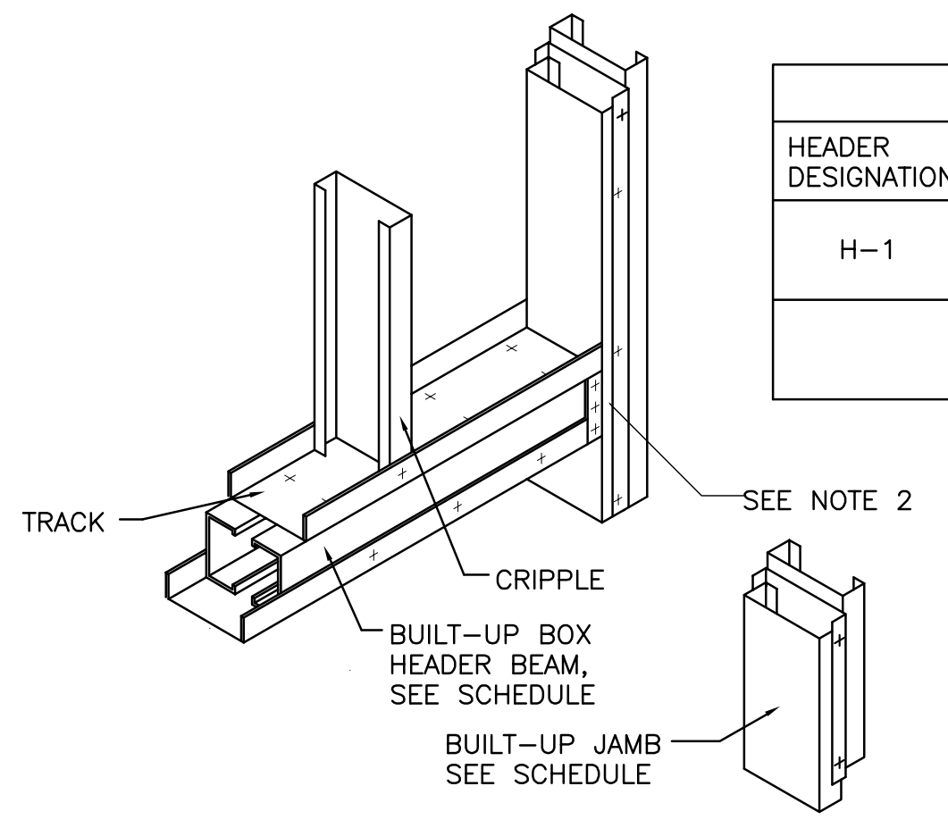
S-801 NO SCALE


BUILT–UP JAMB
CLIP ANGLE
BUILT–UP SILL
TRACK
ATTACH TRACK TO STUD AT EACH FLANGE
CRIPPLE STUD

NOTE: FASTEN BUILT–UP MEMBERS TOGETHER AT 12" O.C. MAX.

6 OPNG BUILT–UP SILL

S-801 NO SCALE


TRACK
CRIPPLE
SEE NOTE 2
BUILT–UP BOX HEADER BEAM, SEE SCHEDULE
BUILT–UP JAMB SEE SCHEDULE

HEADER DESIGNATION	HEADER BEAM		JAMB ASSEMBLY
H–1	6x8	(2) 800S200–68, GRADE 50 + (2) 600T200–54, GRADE 50	POST (DETAIL "4/S–801")

NOTES:
1. PROVIDE WEB STIFFENERS AS REQ'D. IN BOX BEAM HEADERS AT EACH SUPPORT AND DIRECTLY UNDER ANY CONCENTRATED LOADS.
2. ATTACH BUILT–UP BOX HEADER TO BUILT–UP JAMS WITH PRE–MANUFACTURED CLIPS WITH A MINIMUM LOAD CARRYING CAPACITY OF 5k (AS MANUFACTURED BY THE STEEL NETWORK INC, "STIFFCLIP HE–68 MIL, 50 ksi", MINIMUM THICKNESS=68 MILS (14 GA), OR APPROVED EQUAL).
3. FASTEN BUILT–UP MEMBERS TOGETHER AT 12" O.C. MAX.

7 OPENING–HEAD ASSEMBLY

S-801 NO SCALE

COLD–FORMED METAL FRAMING (CFS) GENERAL NOTES:

1. COLD–FORMED METAL FRAMING SHALL COMPLY WITH THE STANDARD AMERICAN IRON AND STEEL INSTITUTE (AISI).
2. THE INFORMATION SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS IS INTENDED TO REPRESENT "TYPICAL DETAILS", INCLUDING THE MINIMUM MEMBERS SIZES AND GAUGE REQUIREMENTS FOR THE CFS MEMBERS. THE MORE STRINGENT OF THE REQUIREMENTS FROM THE DELEGATED STRUCTURAL ENGINEERING PERFORMANCE DESIGN CALCULATIONS, THE ASSOCIATED ENGINEERED SHOP DRAWING DETAILS (INCLUDING, BUT NOT LIMITED TO HEADERS, BUILT–UP POSTS, SILLS, DOOR JAMBS, ETC) AND THE MINIMUM REQUIREMENTS SHOWN WITHIN THE CONTRACT DOCUMENTS SHALL APPLY.
3. PERFORMANCE REQUIREMENTS – NON–LOAD BEARING CFS FRAMING
    - a. DELEGATED DESIGN AND DESIGNER QUALIFICATIONS: ENGAGE A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER EXPERIENCED IN THE DESIGN OF THIS WORK AND WHO IS LICENSED IN THE STATE OF NEW YORK TO DESIGN THE FRAMING SYSTEM AND TO PREPARE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR THE COLD–FORMED STEEL FRAMING. THE CONTRACTOR SHALL SUBMIT THESE DOCUMENTS FOR REVIEW.
    - b. DESIGN AND PROVIDE COLD–FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
    - c. REFER TO SPECIFICATION SECTION 05 40 00 "COLD–FORMED METAL FRAMING" FOR ADDITIONAL INFORMATION.
4. MANUFACTURER: MARINO–WARE, DIETRICH OR APPROVED EQUAL.
5. MATERIALS AND FINISH (MINIMUM):
    - a. THE MINIMUM MEMBER SIZES AND GAUGE REQUIREMENTS FOR ALL METAL CFS EXTERIOR NON–LOAD BEARING WALL STUDS SHALL BE AS FOLLOWS. REFER TO ARCH DWGS FOR LOCATIONS OF EACH:
        - a.1. 6" COLD FORMED STEEL (CFS), 16 GA W/ 2" FLANGE, FY = 50 KSI, SUCH AS MARINO–WARE METAL FRAMING 6J16 (600S200–54) FOR 6" STUDS, UNLESS OTHERWISE NOTED, SPECIFIED OR REQUIRED BY DELEGATED STRUCTURAL ENGINEERING PERFORMANCE DESIGN.
    - b. PROVIDE GALVANIZED FINISH TO ALL METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 FOR MINIMUM G90 COATING. USE GALVANIZED REPAIR TOUCH–UP PAINT IN THE FIELD. INSTALL UN–CUT ENDS OF STUDS IN BOTTOM TRACK.
6. THE SPECIFIC USE OF WELDING, SCREWS, AND / OR PAF'S ARE AT THE CONTRACTOR'S OPTION AND SHALL BE AS REQUIRED BY THE DELEGATED STRUCTURAL ENGINEERING PERFORMANCE DESIGN CALCULATIONS FOR THE CFS FRAMING SYSTEM AND THE ASSOCIATED ENGINEERED SHOP DRAWING DETAILS AND THEIR CONNECTIONS.
    - a. IF WELDING IS TO BE USED, WELDING TO BE PERFORMED BY AWS CERTIFIED WELDER. USE 0.035 FLUX–CORE WIRE USING A MIG WELDER OR AN EQUIVALENT SUBSTITUTE.
    - b. IF WELDING IS TO BE USED, WELD SIZE IS EQUAL TO OR GREATER THAN THE THICKNESS OF THE THINNEST CONNECTED MEMBER, UNLESS OTHERWISE NOTED OR REQUIRED BY DESIGN.

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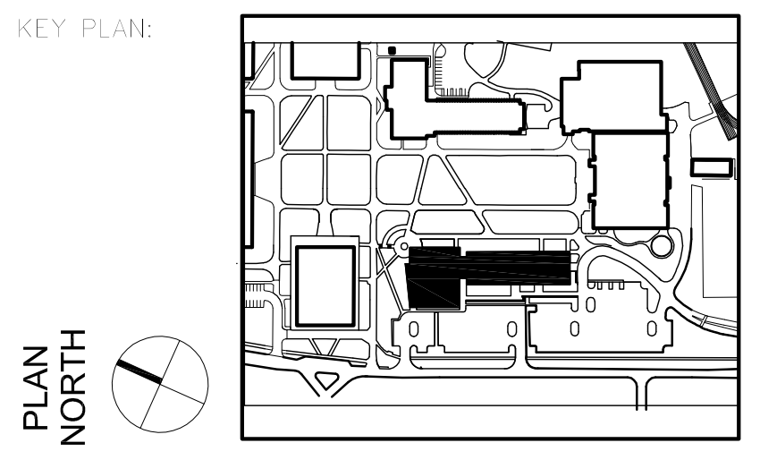
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:

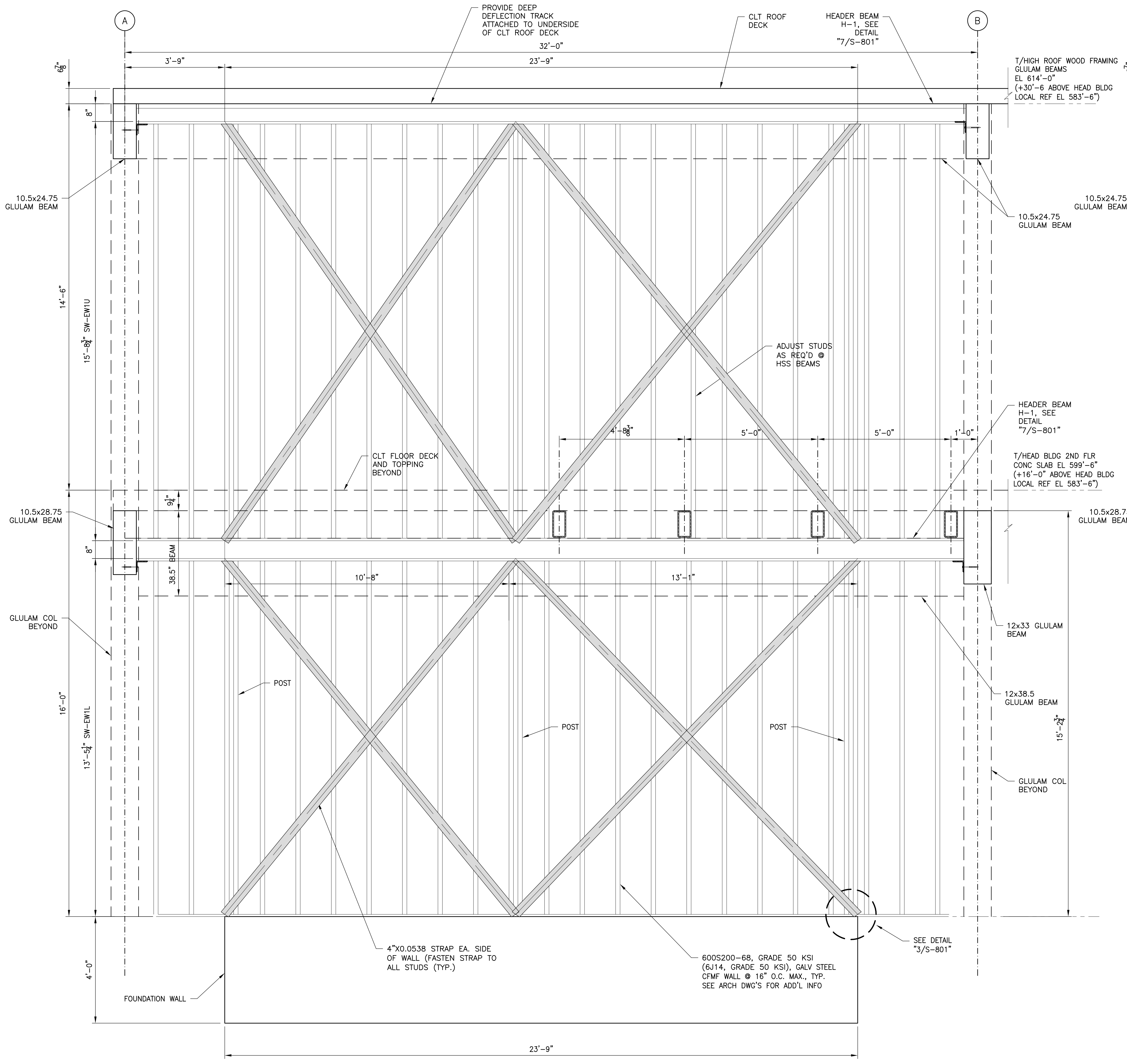


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
HEAD BUILDING – CFMF DETAILS AND NOTES

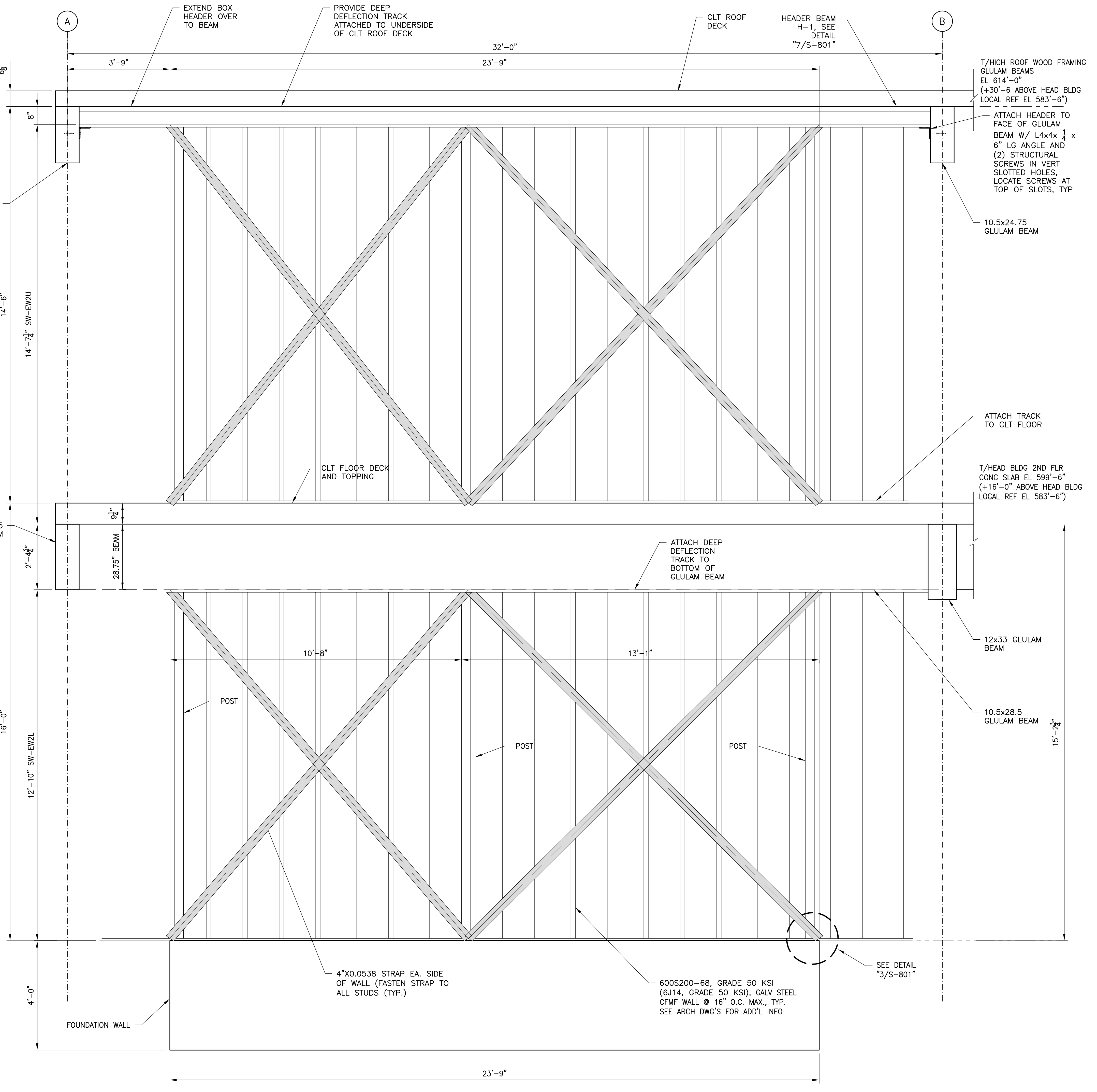
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-801


A
B
PROVIDE DEEP DEFLECTION TRACK ATTACHED TO UNDERSIDE OF CLT ROOF DECK
CLT ROOF DECK
HEADER BEAM H–1, SEE DETAIL "7/S–801"
32'–0"
3'–9"
23'–9"
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'–0" (+30'–6 ABOVE HEAD BLDG LOCAL REF EL 583'–6")
6⅞"
8"
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
14'–6"
15'–8¾" SW–EW1U
ADJUST STUDS AS REQ'D @ HSS BEAMS
HEADER BEAM H–1, SEE DETAIL "7/S–801"
4'–8⅜"
5'–0"
5'–0"
1'–0"
CLT FLOOR DECK AND TOPPING BEYOND
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'–6" (+16'–0" ABOVE HEAD BLDG LOCAL REF EL 583'–6")
9¼"
10.5x28.75 GLULAM BEAM
10.5x28.75 GLULAM BEAM
2'–4¾"
38.5" BEAM
10'–8"
13'–1"
GLULAM COL BEYOND
12x33 GLULAM BEAM
12x38.5 GLULAM BEAM
POST
POST
POST
16'–0"
13'–5¼" SW–EW1L
15'–2¾"
12'–10" SW–EW2L
GLULAM COL BEYOND
4'–0"
FOUNDATION WALL
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200–68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
SEE DETAIL "3/S–801"
23'–9"

1 / S–802 SHEAR WALL ELEVATION – SW–EW1L AND SW–EW1U

NO SCALE


A
B
EXTEND BOX HEADER OVER TO BEAM
PROVIDE DEEP DEFLECTION TRACK ATTACHED TO UNDERSIDE OF CLT ROOF DECK
CLT ROOF DECK
HEADER BEAM H–1, SEE DETAIL "7/S–801"
32'–0"
3'–9"
23'–9"
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'–0" (+30'–6 ABOVE HEAD BLDG LOCAL REF EL 583'–6")
ATTACH HEADER TO FACE OF GLULAM BEAM W/ L4x4x ¼ x 6" LG ANGLE AND (2) STRUCTURAL SCREWS IN VERT SLOTTED HOLES, LOCATE SCREWS AT TOP OF SLOTS, TYP
6⅞"
8"
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
14'–6"
14'–7¼" SW–EW2U
ATTACH TRACK TO CLT FLOOR
CLT FLOOR DECK AND TOPPING BEYOND
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'–6" (+16'–0" ABOVE HEAD BLDG LOCAL REF EL 583'–6")
9¼"
2'–4¾"
28.75" BEAM
10.5x28.75 GLULAM BEAM
ATTACH DEEP DEFLECTION TRACK TO BOTTOM OF GLULAM BEAM
12x33 GLULAM BEAM
10.5x28.5 GLULAM BEAM
10'–8"
13'–1"
POST
POST
POST
16'–0"
12'–10" SW–EW2L
15'–2¾"
4'–0"
FOUNDATION WALL
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200–68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
SEE DETAIL "3/S–801"
23'–9"

2 / S–802 SHEAR WALL ELEVATION – SW–EW2L AND SW–EW2U

NO SCALE

SHEAR WALL ELEVATION NOTES:

1. REFER TO DWG S–801 FOR COLD–FORMED METAL FRAMING (CFMS) TYPICAL DETAILS AND GENERAL NOTES.
2. CONNECTION OF STRAP BRACING AT EACH END SHALL BE DESIGNED FOR AN UN–FACTORED AXIAL TENSION LOAD.
3. SOLID BLOCK / WALL BRIDGING NOT SHOWN IN ALL ELEVATIONS. SEE DWG S–801 FOR ADD'L INFO.

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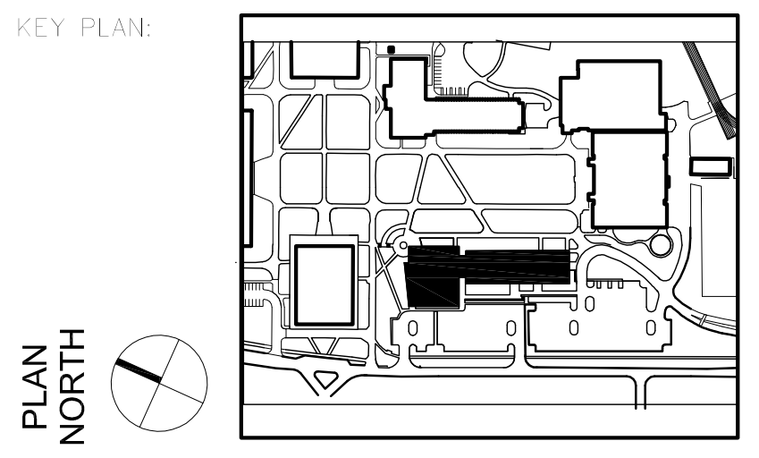
KEY PLAN:



PROJECT:

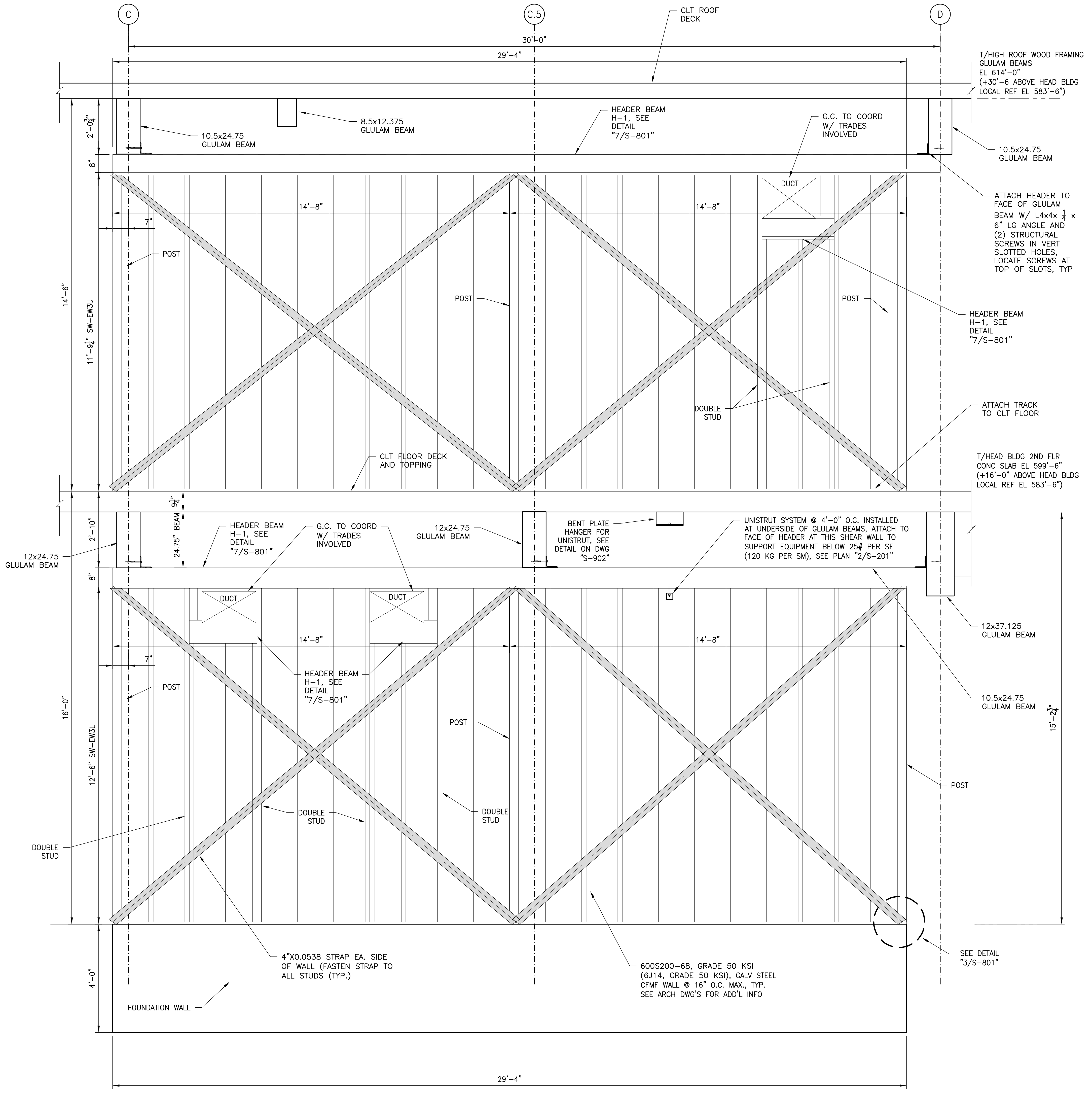
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – CFMF SHEAR WALL ELEVATIONS

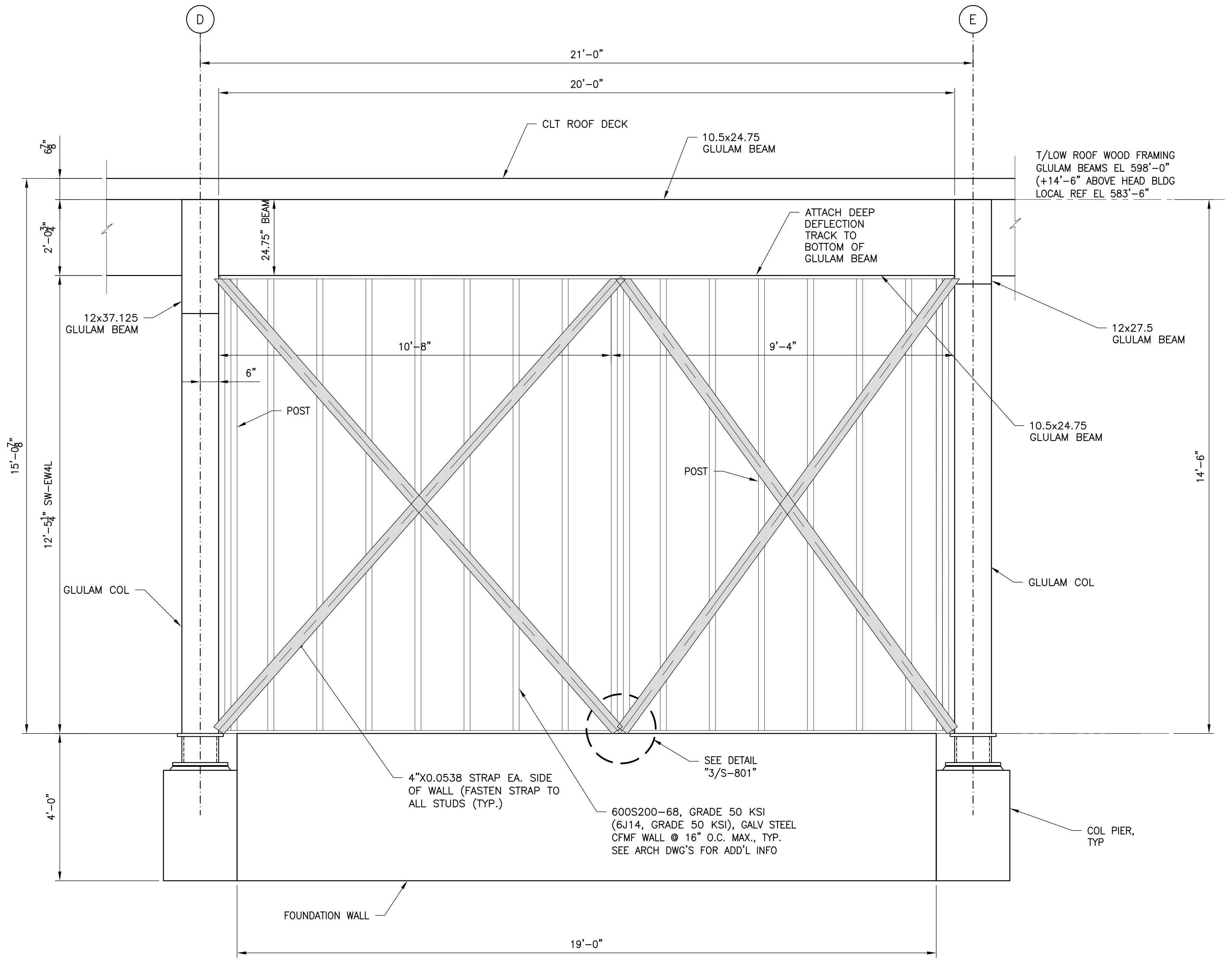
PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-802


C
C.5
D
CLT ROOF DECK
30'-0"
29'-4"
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x24.75 GLULAM BEAM
8.5x12.375 GLULAM BEAM
HEADER BEAM H-1, SEE DETAIL "7/S-801"
G.C. TO COORD W/ TRADES INVOLVED
10.5x24.75 GLULAM BEAM
DUCT
2'-0¾"
8"
14'-8"
14'-8"
7"
POST
POST
POST
ATTACH HEADER TO FACE OF GLULAM BEAM W/ L4x4x ¼ x 6" LG ANGLE AND (2) STRUCTURAL SCREWS IN VERT SLOTTED HOLES, LOCATE SCREWS AT TOP OF SLOTS, TYP
HEADER BEAM H-1, SEE DETAIL "7/S-801"
14'-6"
11'-9¼" SW-EW3U
DOUBLE STUD
ATTACH TRACK TO CLT FLOOR
CLT FLOOR DECK AND TOPPING
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
9¼"
2'-10"
24.75" BEAM
HEADER BEAM H-1, SEE DETAIL "7/S-801"
G.C. TO COORD W/ TRADES INVOLVED
12x24.75 GLULAM BEAM
BENT PLATE HANGER FOR UNISTRUT, SEE DETAIL ON DWG "S-902"
UNISTRUT SYSTEM @ 4'-0" O.C. INSTALLED AT UNDERSIDE OF GLULAM BEAMS, ATTACH TO FACE OF HEADER AT THIS SHEAR WALL TO SUPPORT EQUIPMENT BELOW 25# PER SF (120 KG PER SM), SEE PLAN "2/S-201"
12x24.75 GLULAM BEAM
8"
DUCT
DUCT
14'-8"
14'-8"
7"
POST
HEADER BEAM H-1, SEE DETAIL "7/S-801"
12x37.125 GLULAM BEAM
10.5x24.75 GLULAM BEAM
15'-2¾"
16'-0"
12'-6" SW-EW3L
POST
POST
DOUBLE STUD
DOUBLE STUD
DOUBLE STUD
DOUBLE STUD
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
SEE DETAIL "3/S-801"
4'-0"
FOUNDATION WALL
29'-4"

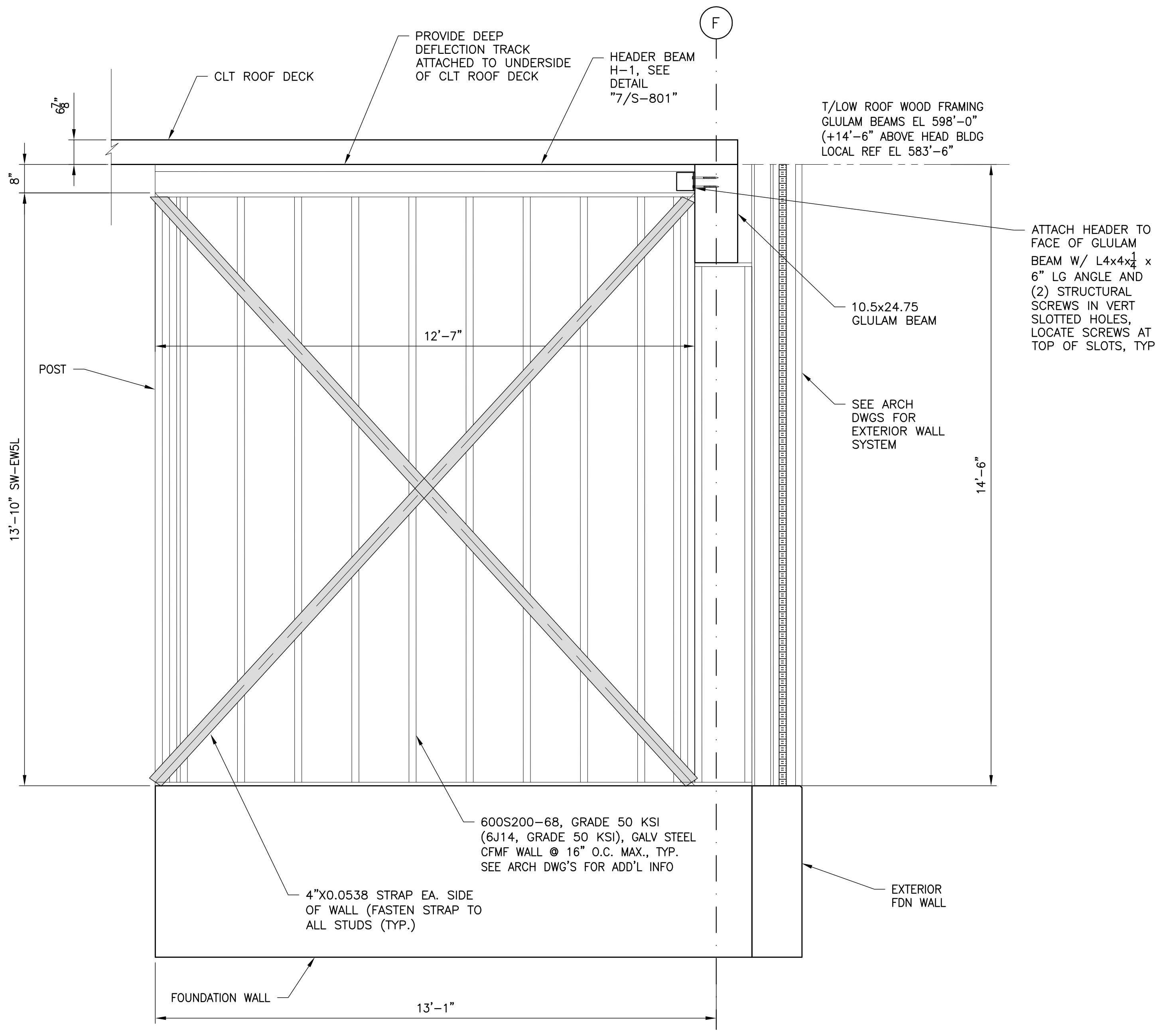
1 / S-803 SHEAR WALL ELEVATION – SW-EW3L AND SW-EW3U

NO SCALE


D
E
21'-0"
20'-0"
CLT ROOF DECK
10.5x24.75 GLULAM BEAM
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6" ABOVE HEAD BLDG LOCAL REF EL 583'-6"
6⅞"
2'-0¾"
24.75" BEAM
ATTACH DEEP DEFLECTION TRACK TO BOTTOM OF GLULAM BEAM
12x37.125 GLULAM BEAM
12x27.5 GLULAM BEAM
10'-8"
9'-4"
6"
POST
POST
10.5x24.75 GLULAM BEAM
15'-0⅞"
12'-5¼" SW-EW4L
14'-6"
GLULAM COL
GLULAM COL
SEE DETAIL "3/S-801"
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
4'-0"
COL PIER, TYP
FOUNDATION WALL
19'-0"

2 / S-803 SHEAR WALL ELEVATION – SW-EW4L

NO SCALE


F
PROVIDE DEEP DEFLECTION TRACK ATTACHED TO UNDERSIDE OF CLT ROOF DECK
HEADER BEAM H-1, SEE DETAIL "7/S-801"
CLT ROOF DECK
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6" ABOVE HEAD BLDG LOCAL REF EL 583'-6"
6⅞"
8"
ATTACH HEADER TO FACE OF GLULAM BEAM W/ L4x4x¼ x 6" LG ANGLE AND (2) STRUCTURAL SCREWS IN VERT SLOTTED HOLES, LOCATE SCREWS AT TOP OF SLOTS, TYP
10.5x24.75 GLULAM BEAM
12'-7"
POST
SEE ARCH DWGS FOR EXTERIOR WALL SYSTEM
13'-10" SW-EW5L
14'-6"
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
EXTERIOR FDN WALL
FOUNDATION WALL
13'-1"

3 / S-803 SHEAR WALL ELEVATION – SW-EW5L

NO SCALE

SHEAR WALL ELEVATION NOTES:

1. REFER TO DWG S-801 FOR COLD-FORMED METAL FRAMING (CFMS) TYPICAL DETAILS AND GENERAL NOTES.
2. CONNECTION OF STRAP BRACING AT EACH END SHALL BE DESIGNED FOR AN UN-FACTORED AXIAL TENSION LOAD.
3. SOLID BLOCK / WALL BRIDGING NOT SHOWN IN ALL ELEVATIONS. SEE DWG S-801 FOR ADD'L INFO.

ONEIDA COUNTY NEW YORK 1798

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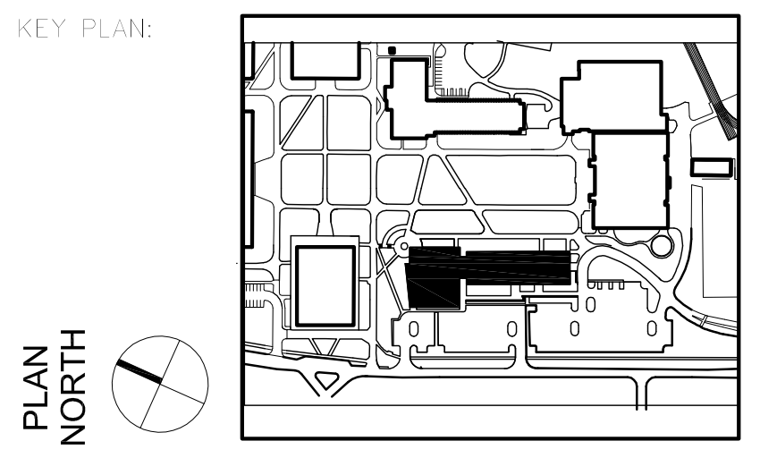
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

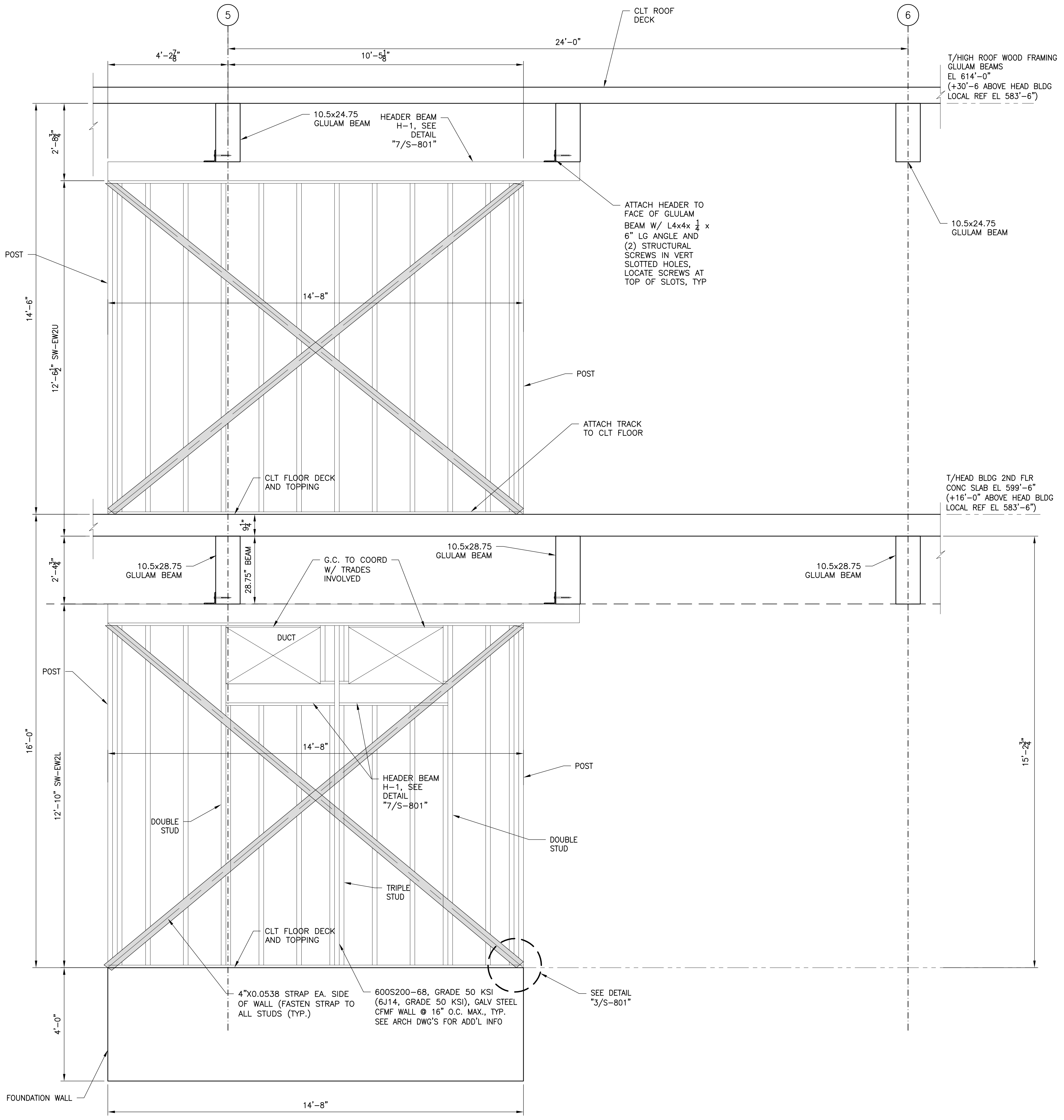
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

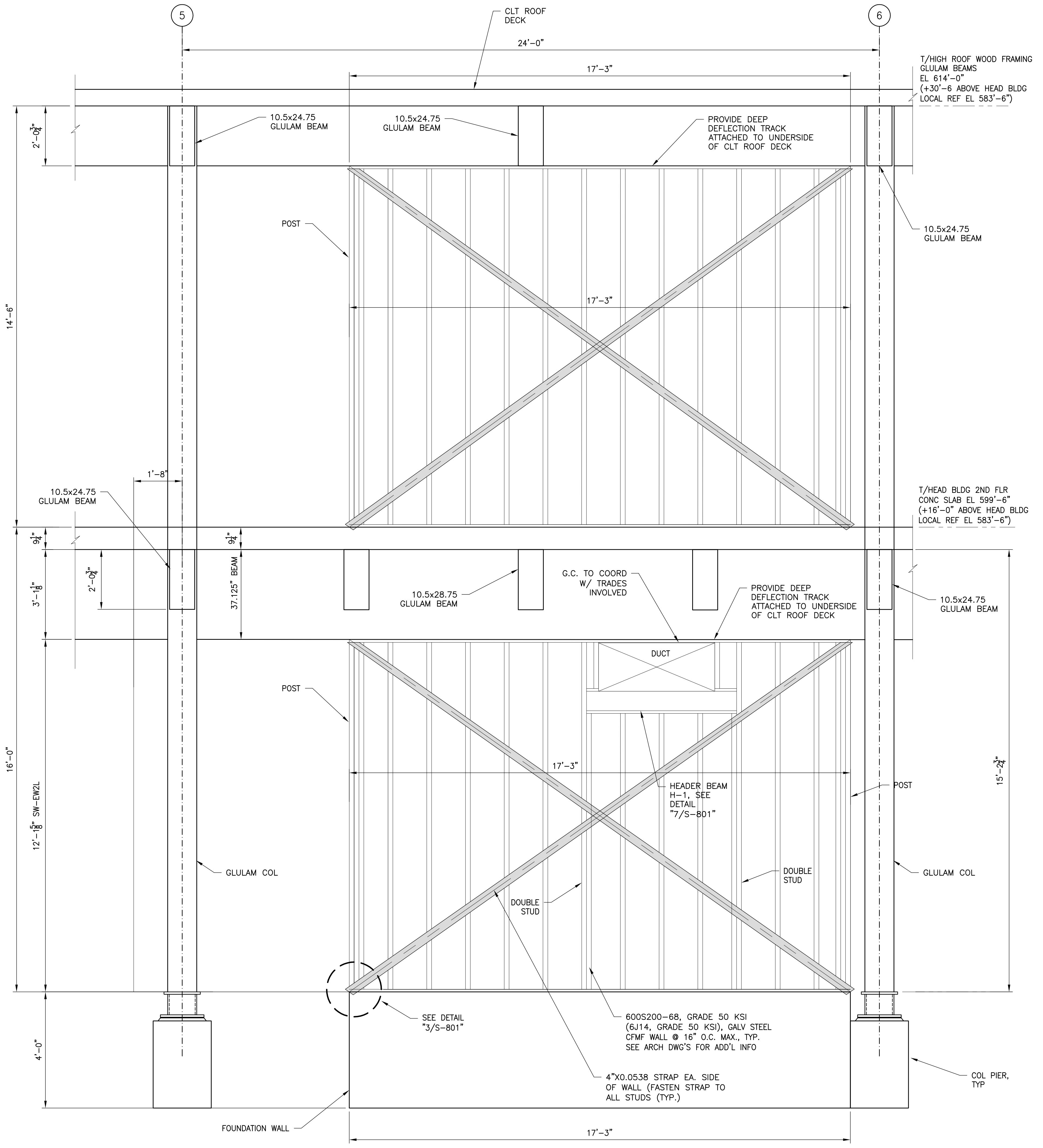
HEAD BUILDING – CFMF SHEAR WALL ELEVATIONS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

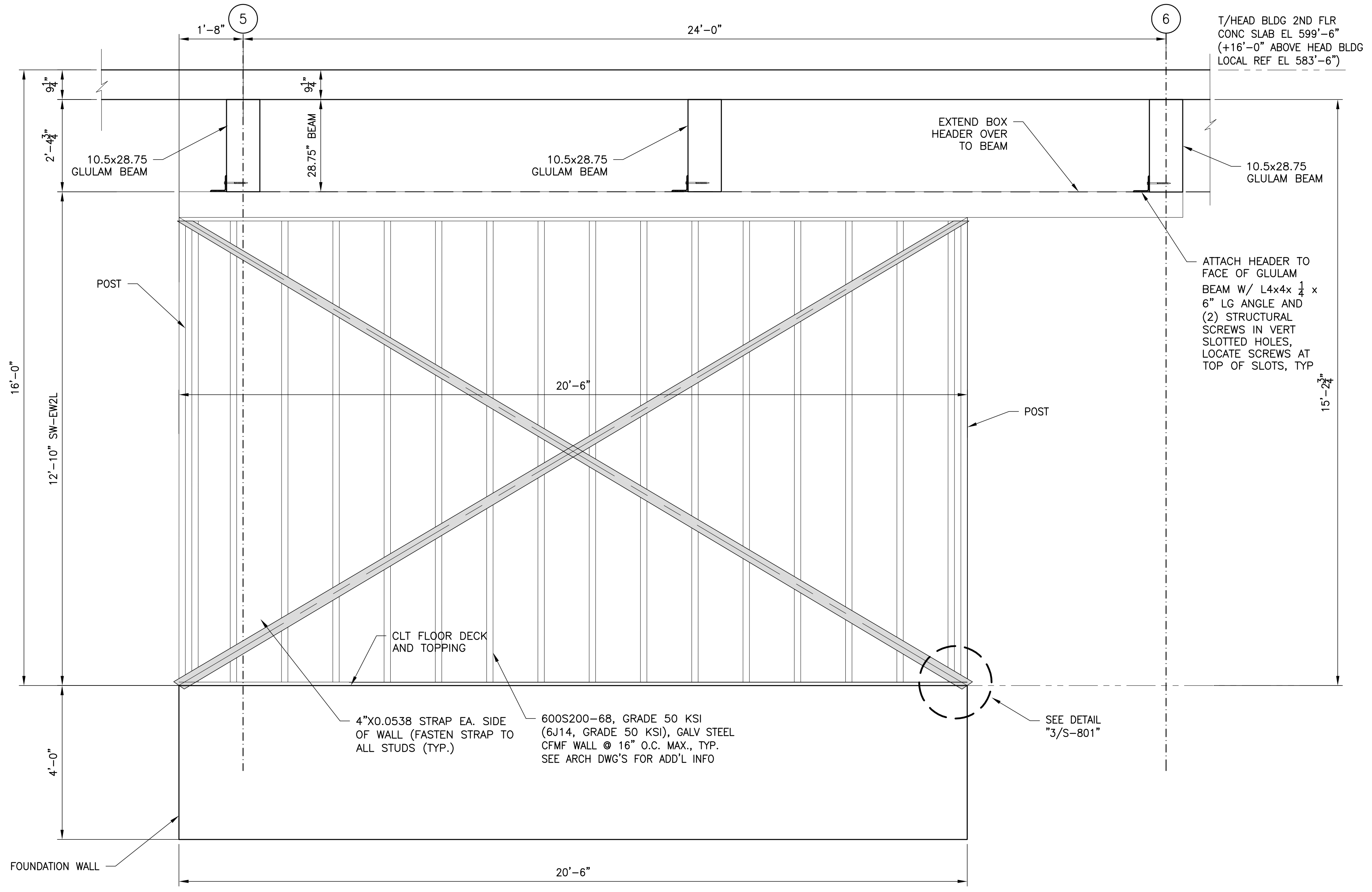
S-803


5
6
CLT ROOF DECK
24'-0"
4'-2$\frac{7}{8}$"
10'-5$\frac{1}{8}$"
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x24.75 GLULAM BEAM
HEADER BEAM H-1, SEE DETAIL "7/S-801"
2'-8$\frac{3}{4}$"
ATTACH HEADER TO FACE OF GLULAM BEAM W/ L4x4x $\frac{1}{4}$ x 6" LG ANGLE AND (2) STRUCTURAL SCREWS IN VERT SLOTTED HOLES, LOCATE SCREWS AT TOP OF SLOTS, TYP
10.5x24.75 GLULAM BEAM
POST
14'-8"
14'-6"
12'-6$\frac{1}{2}$" SW-EW2U
POST
ATTACH TRACK TO CLT FLOOR
CLT FLOOR DECK AND TOPPING
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
9$\frac{1}{4}$"
10.5x28.75 GLULAM BEAM
28.75" BEAM
G.C. TO COORD W/ TRADES INVOLVED
10.5x28.75 GLULAM BEAM
10.5x28.75 GLULAM BEAM
2'-4$\frac{3}{4}$"
DUCT
POST
14'-8"
16'-0"
12'-10" SW-EW2L
HEADER BEAM H-1, SEE DETAIL "7/S-801"
POST
15'-2$\frac{3}{4}$"
DOUBLE STUD
DOUBLE STUD
TRIPLE STUD
CLT FLOOR DECK AND TOPPING
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
SEE DETAIL "3/S-801"
4'-0"
FOUNDATION WALL
14'-8"

1 / S-804 SHEAR WALL ELEVATION – SW-NS1L AND SW-NS1U
NO SCALE


5
6
CLT ROOF DECK
24'-0"
17'-3"
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
PROVIDE DEEP DEFLECTION TRACK ATTACHED TO UNDERSIDE OF CLT ROOF DECK
2'-0$\frac{3}{4}$"
10.5x24.75 GLULAM BEAM
POST
17'-3"
14'-6"
1'-8"
10.5x24.75 GLULAM BEAM
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
9$\frac{1}{4}$"
3'-1$\frac{1}{8}$"
2'-0$\frac{3}{4}$"
37.125" BEAM
10.5x28.75 GLULAM BEAM
G.C. TO COORD W/ TRADES INVOLVED
PROVIDE DEEP DEFLECTION TRACK ATTACHED TO UNDERSIDE OF CLT ROOF DECK
10.5x24.75 GLULAM BEAM
DUCT
POST
17'-3"
16'-0"
12'-1$\frac{5}{8}$" SW-EW2L
HEADER BEAM H-1, SEE DETAIL "7/S-801"
POST
15'-2$\frac{3}{4}$"
GLULAM COL
GLULAM COL
DOUBLE STUD
DOUBLE STUD
SEE DETAIL "3/S-801"
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
4'-0"
COL PIER, TYP
FOUNDATION WALL
17'-3"

3 / S-804 SHEAR WALL ELEVATION – SW-NS3L AND SW-NS3U
NO SCALE


5
6
1'-8"
24'-0"
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
9$\frac{1}{4}$"
9$\frac{1}{4}$"
2'-4$\frac{3}{4}$"
10.5x28.75 GLULAM BEAM
28.75" BEAM
10.5x28.75 GLULAM BEAM
EXTEND BOX HEADER OVER TO BEAM
10.5x28.75 GLULAM BEAM
ATTACH HEADER TO FACE OF GLULAM BEAM W/ L4x4x $\frac{1}{4}$ x 6" LG ANGLE AND (2) STRUCTURAL SCREWS IN VERT SLOTTED HOLES, LOCATE SCREWS AT TOP OF SLOTS, TYP
POST
20'-6"
16'-0"
12'-10" SW-EW2L
POST
15'-2$\frac{3}{4}$"
CLT FLOOR DECK AND TOPPING
4"X0.0538 STRAP EA. SIDE OF WALL (FASTEN STRAP TO ALL STUDS (TYP.)
600S200-68, GRADE 50 KSI (6J14, GRADE 50 KSI), GALV STEEL CFMF WALL @ 16" O.C. MAX., TYP. SEE ARCH DWG'S FOR ADD'L INFO
SEE DETAIL "3/S-801"
4'-0"
FOUNDATION WALL
20'-6"

2 / S-804 SHEAR WALL ELEVATION – SW-NS2L
NO SCALE

SHEAR WALL ELEVATION NOTES:

1. REFER TO DWG S-801 FOR COLD-FORMED METAL FRAMING (CFMS) TYPICAL DETAILS AND GENERAL NOTES.
2. CONNECTION OF STRAP BRACING AT EACH END SHALL BE DESIGNED FOR AN UN-FACTORED AXIAL TENSION LOAD.
3. SOLID BLOCK / WALL BRIDGING NOT SHOWN IN ALL ELEVATIONS. SEE DWG S-801 FOR ADD'L INFO.

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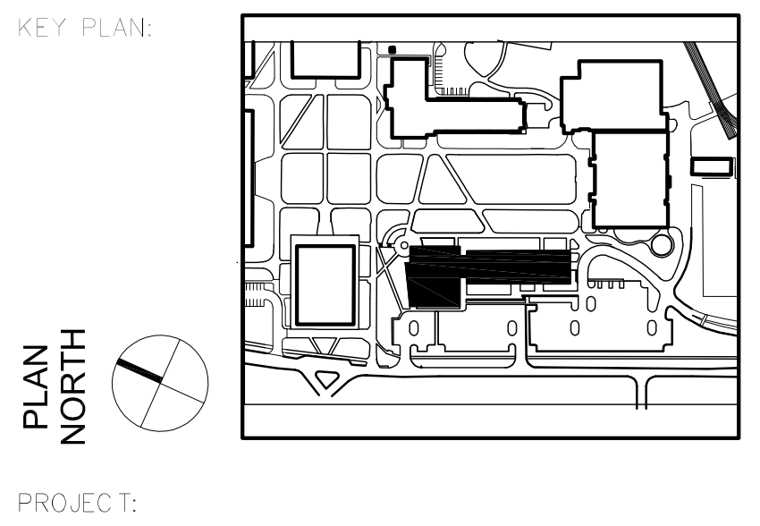
PLAN NORTH
0
0
0
0

PROJECT:

SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING –
CFMF SHEAR WALL
ELEVATIONS

PROJECT NO: 23000
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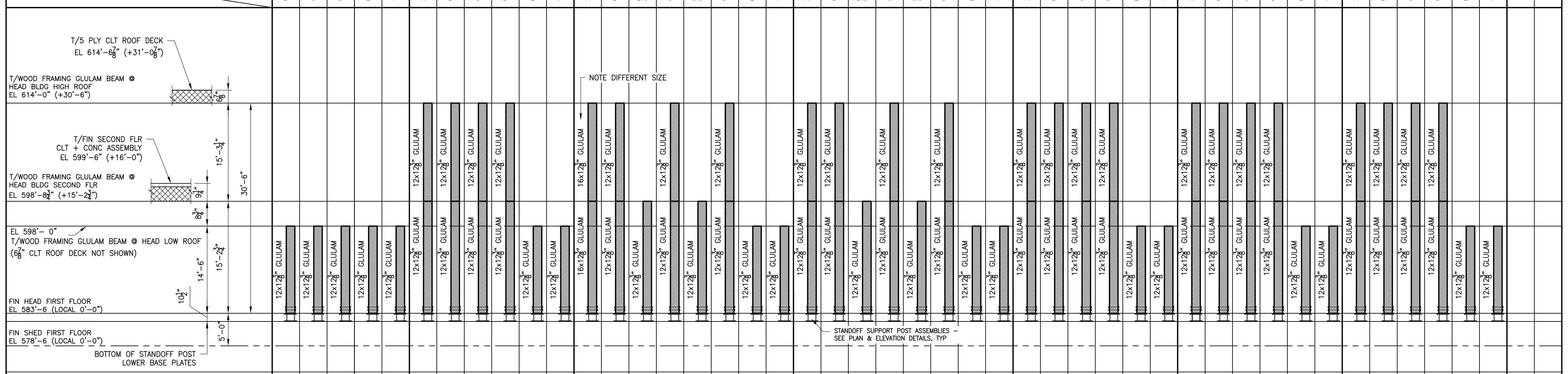
SCALE: AS NOTED

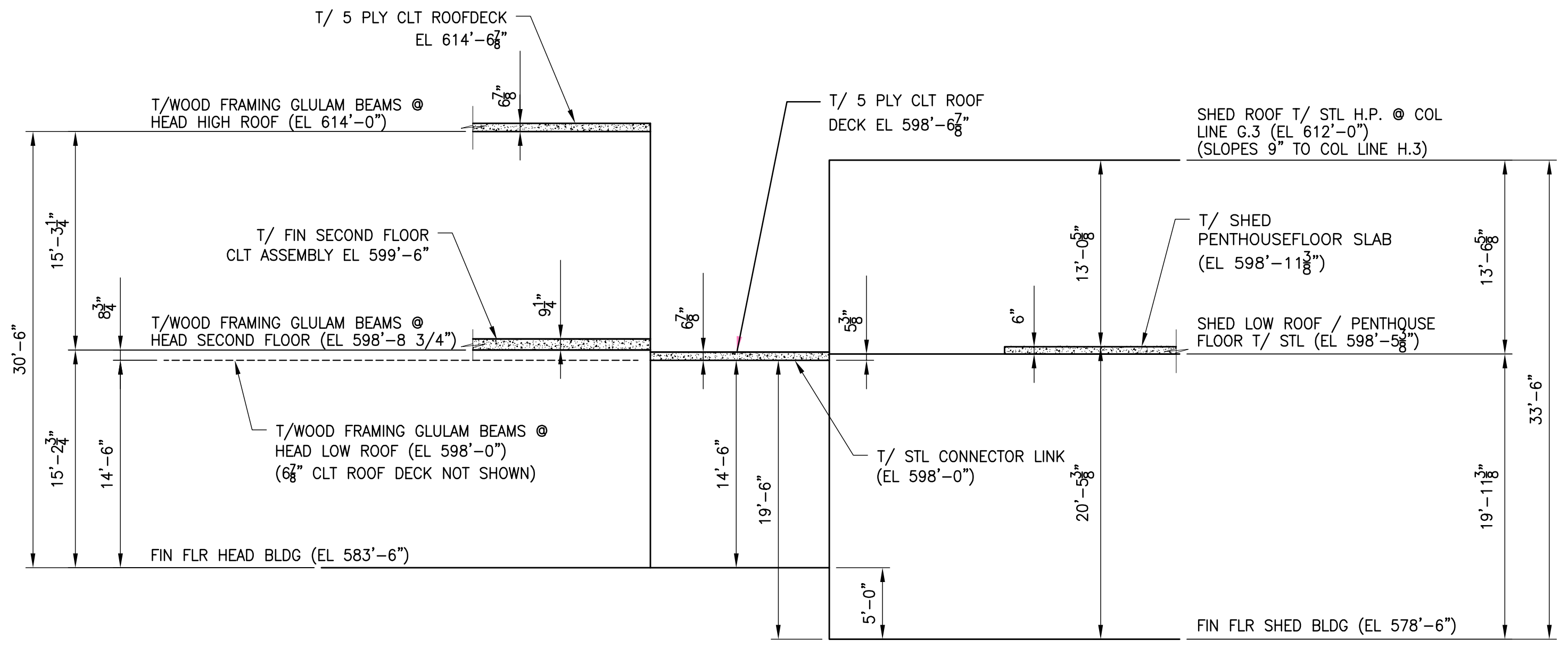
S-804

GLULAM COLUMN SCHEDULE – HEAD BUILDING


T/5 PLY CLT ROOF DECK
EL 614'-6$\frac{7}{8}$" (+31'-0$\frac{7}{8}$")
T/WOOD FRAMING GLULAM BEAM @
HEAD BLDG HIGH ROOF
EL 614'-0" (+30'-6")
6$\frac{7}{8}$"
T/FIN SECOND FLR
CLT + CONC ASSEMBLY
EL 599'-6" (+16'-0")
T/WOOD FRAMING GLULAM BEAM @
HEAD BLDG SECOND FLR
EL 598'-8$\frac{3}{4}$" (+15'-2$\frac{3}{4}$")
9$\frac{1}{4}$"
8$\frac{3}{4}$"
15'-3$\frac{1}{4}$"
30'-6"
EL 598'- 0"
T/WOOD FRAMING GLULAM BEAM @ HEAD LOW ROOF
(6$\frac{7}{8}$" CLT ROOF DECK NOT SHOWN)
14'-6"
15'-2$\frac{3}{4}$"
10$\frac{1}{2}$"
FIN HEAD FIRST FLOOR
EL 583'-6 (LOCAL 0'-0")
5'-0"
FIN SHED FIRST FLOOR
EL 578'-6 (LOCAL 0'-0")
BOTTOM OF STANDOFF POST
LOWER BASE PLATES
NOTE DIFFERENT SIZE
12x12$\frac{3}{8}$" GLULAM
16x12$\frac{3}{8}$" GLULAM
STANDOFF SUPPORT POST ASSEMBLIES – SEE PLAN & ELEVATION DETAILS, TYP

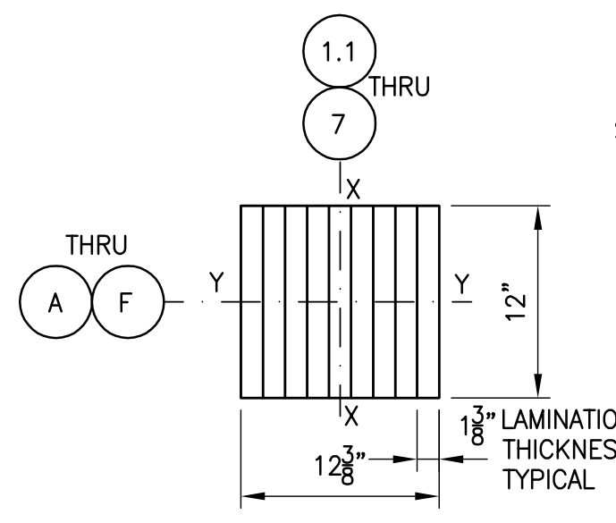
COLUMN MARK ELEVATION	LINE 1					LINE 2						LINE 3								LINE 4								LINE 5						LINE 6						LINE 7					
	B	C	D	E	F	A	B	C	D	E	F	A	B	B.5	C	C.5	D	E	F	A	B	B.5	C	C.5	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
STAND OFF POST LOWER BASE PLATE TYPE	D	C	C	C	D	E	G	A	A	A	D	F	A	A	A	A	A	A	H	C	A	A	A	A	A	A	H	C	A	A	A	A	C	C	A	A	A	A	C	D	A	A	J	J	D
	SIM	SIM	SIM	SIM	SIM	*	*					*							*								*																*	*	
COLUMN SPREAD FOOTING LOADS: (SEE NOTE 5)																																													
UN-FACTORED DEAD LOADS (KIPS)	25k	30k	25k	20k	5k	45k	75k	80k	55k	25k	15k	55k	85k	40k	110k	40k	85k	50k	35k	70k	100k	40k	110k	40k	85k	50k	35k	80k	105k	105k	85k	50k	35k	80k	85k	85k	85k	50k	35k	75k	70k	65k	60k	35k	30k
UN-FACTORED LIVE LOADS+SNOW LOADS (KIPS)	15k	20k	15k	10k	5k	15k	60k	80k	60k	45k	25k	20k	80k	30k	110k	30k	80k	65k	40k	45k	95k	30k	125k	30k	90k	65k	40k	65k	120k	140k	100k	65k	40k	60k	115k	140k	100k	65k	40k	25k	60k	80k	55k	35k	25k
TOTAL UN-FACTORED LOADS (KIPS)	40k	50k	40k	30k	10k	60k	135k	160k	115k	70k	40k	75k	165k	70k	220k	70k	165k	115k	75k	115k	195k	70k	225k	70k	175k	115k	75k	145k	225k	245k	185k	115k	75k	140k	225k	225k	185k	115k	75k	100k	130k	145k	115k	70k	55k
	LINE 1					LINE 2						LINE 3								LINE 4								LINE 5						LINE 6						LINE 7					
	B	C	D	E	F	A	B	C	D	E	F	A	B	B.5	C	C.5	D	E	F	A	B	B.5	C	C.5	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F

SEE NOTE 6 FOR X-BRACE RELATED BASE PLATES, TYP


T/ 5 PLY CLT ROOFDECK
EL 614'-6$\frac{7}{8}$"
T/WOOD FRAMING GLULAM BEAMS @
HEAD HIGH ROOF (EL 614'-0")
T/ FIN SECOND FLOOR
CLT ASSEMBLY EL 599'-6"
T/WOOD FRAMING GLULAM BEAMS @
HEAD SECOND FLOOR (EL 598'-8 3/4")
T/WOOD FRAMING GLULAM BEAMS @
HEAD LOW ROOF (EL 598'-0")
(6$\frac{7}{8}$" CLT ROOF DECK NOT SHOWN)
FIN FLR HEAD BLDG (EL 583'-6")
T/ 5 PLY CLT ROOF
DECK EL 598'-6$\frac{7}{8}$"
T/ STL CONNECTOR LINK
(EL 598'-0")
SHED ROOF T/ STL H.P. @ COL
LINE G.3 (EL 612'-0")
(SLOPES 9" TO COL LINE H.3)
T/ SHED
PENTHOUSEFLOOR SLAB
(EL 598'-11$\frac{3}{8}$")
SHED LOW ROOF / PENTHOUSE
FLOOR T/ STL (EL 598'-5$\frac{3}{8}$")
FIN FLR SHED BLDG (EL 578'-6")
30'-6"
15'-3$\frac{1}{4}$"
15'-2$\frac{3}{4}$"
8$\frac{3}{4}$"
14'-6"
9$\frac{1}{4}$"
6$\frac{7}{8}$"
19'-6"
5'-0"
5$\frac{3}{8}$"
6"
13'-0$\frac{5}{8}$"
20'-5$\frac{3}{8}$"
13'-6$\frac{5}{8}$"
19'-11$\frac{3}{8}$"
33'-6"

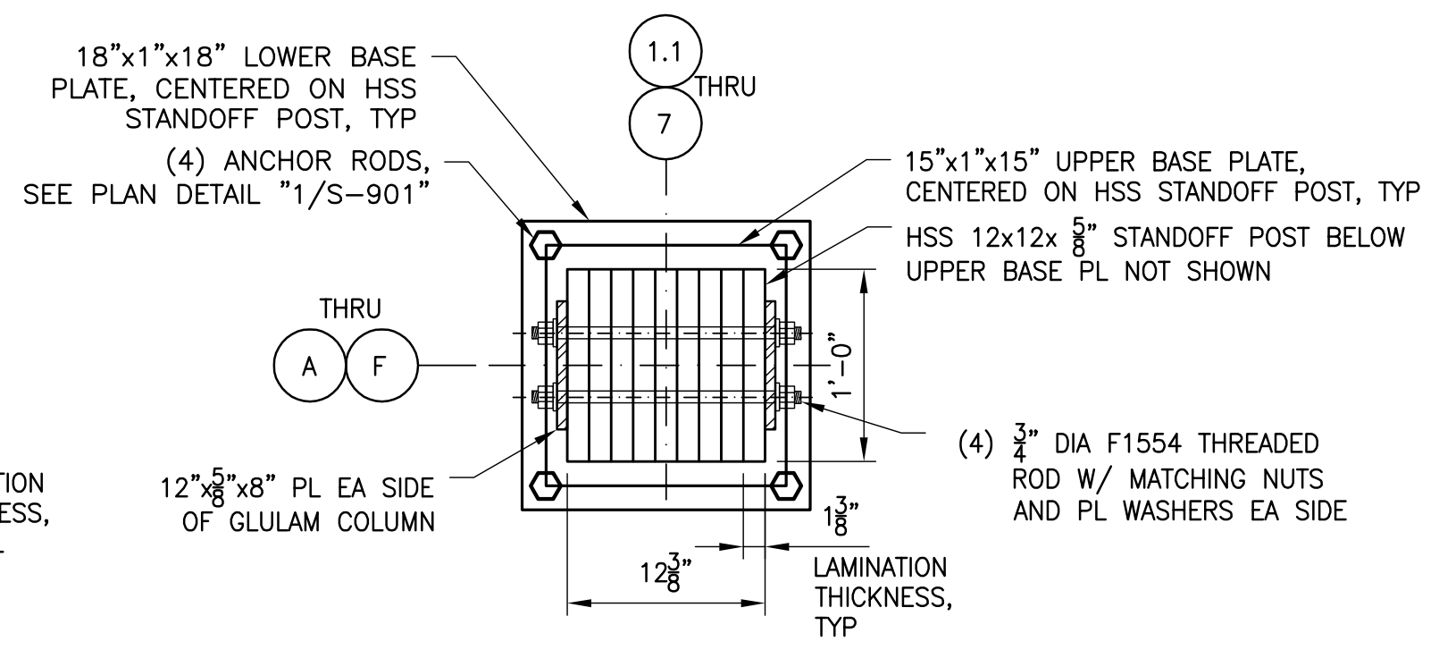
BUILDING ELEVATION DIAGRAM

NOTES:
1. DIMENSIONS SHOWN ARE TO BOTTOM OF WOOD COLUMN STANDOFF POST LOWER BASE PLATES.
2. COORDINATE TOP OF COLUMNS W/TOP OF GLULAM BEAMS/ GIRDERS SHOWN ON PLANS AND SECTIONS/DETAILS.
3. "BASIS OF DESIGN" PROPERTIES:
   COLUMNS: VISUALLY GRADED SOUTHERN PINE
   COMBINATION SYMBOL: 47 1:8
   UNIFORM GRADE LAYUP: N2M
4. COLUMN ORIENTATION: ALL COLUMNS SHALL BE ORIENTED IN THE SAME DIRECTION AS SHOWN.
5. COLUMN SPREAD FOOTING LOADS ARE PROVIDED FOR USE BY THE SPECIALTY CONTRACTOR'S GROUND IMPROVEMENT DELEGATED DESIGN PROFESSIONAL ENGINEER. ALL LOADS ARE UN-FACTORED MAXIMUM DESIGN LOADS.
6. * DESIGNATES COLUMN BASE PLATES THAT OCCUR AT X-BRACING. SEE PLAN DRAWING S-201, DRAWING S-901.1 FOR BASE PLATE DETAILS AND DRAWING S-905 FOR X-BRACE ELEVATIONS.


1.1
THRU
7
THRU
A
F
X
Y
12"
12$\frac{3}{8}$"
1$\frac{3}{8}$" LAMINATION THICKNESS, TYPICAL

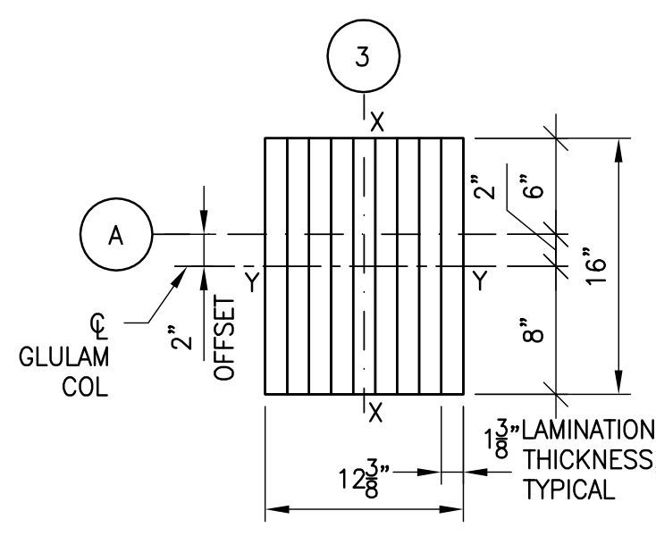
PLAN
TYPICAL EXCEPT AT COLUMN A3

PLAN NORTH


18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
(4) ANCHOR RODS, SEE PLAN DETAIL "1/S-901"
1.1
THRU
7
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
HSS 12x12x $\frac{5}{8}$" STANDOFF POST BELOW UPPER BASE PL NOT SHOWN
THRU
A
F
1'-0"
(4) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
12"x$\frac{5}{8}$"x8" PL EA SIDE OF GLULAM COLUMN
12$\frac{3}{8}$"
1$\frac{3}{8}$"
LAMINATION THICKNESS, TYP

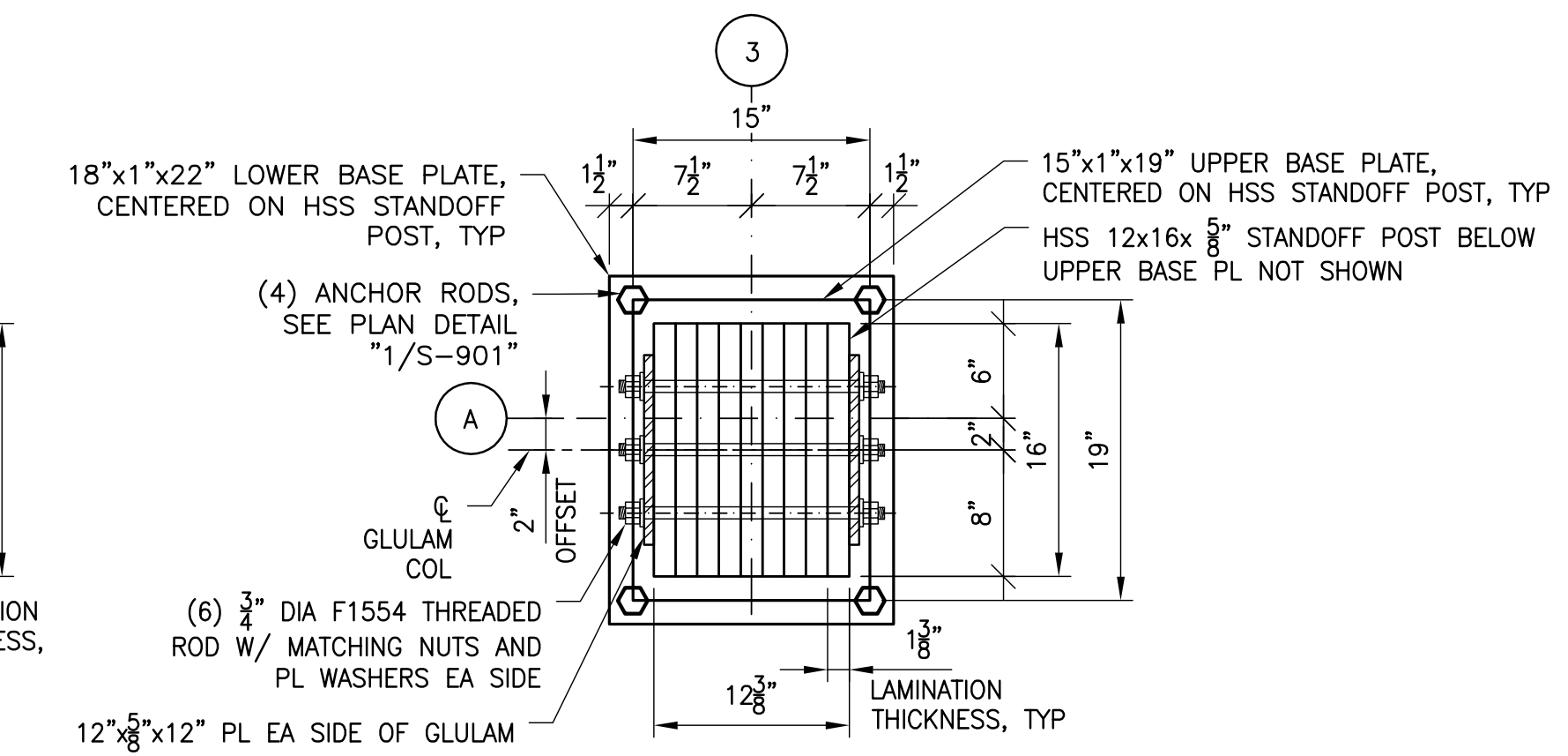
STANDOFF SUPPORT POST ASSEMBLY PLAN
TYPICAL EXCEPT AT COLUMN A3

PLAN NORTH


3
A
X
Y
℄ GLULAM COL
2"
OFFSET
2"
6"
16"
8"
12$\frac{3}{8}$"
1$\frac{3}{8}$" LAMINATION THICKNESS, TYPICAL

PLAN
AT COL A3 ONLY

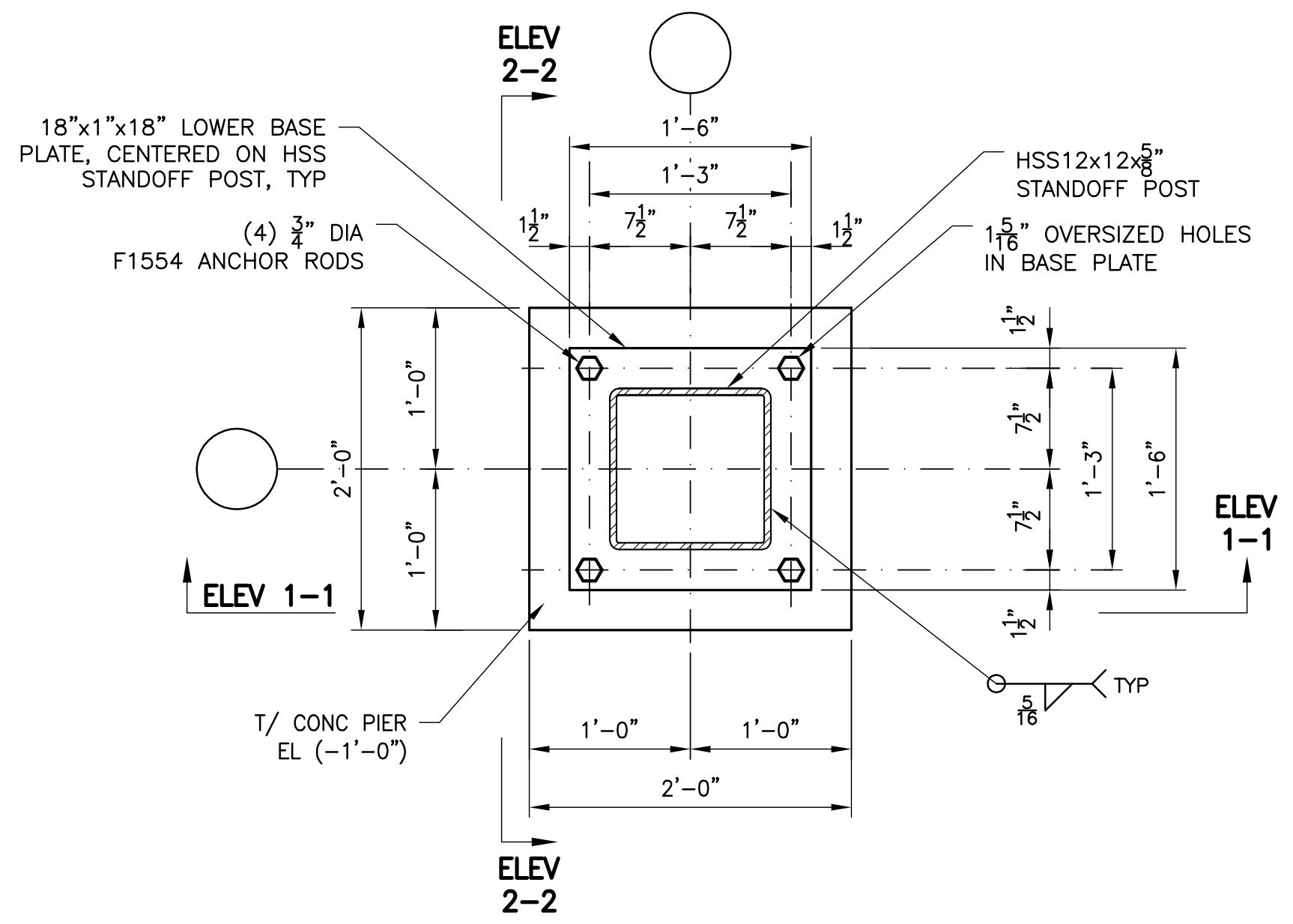
PLAN NORTH


3
15"
1$\frac{1}{2}$"
7$\frac{1}{2}$"
7$\frac{1}{2}$"
1$\frac{1}{2}$"
18"x1"x22" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
15"x1"x19" UPPER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
HSS 12x16x $\frac{5}{8}$" STANDOFF POST BELOW UPPER BASE PL NOT SHOWN
(4) ANCHOR RODS, SEE PLAN DETAIL "1/S-901"
A
℄ GLULAM COL
2"
OFFSET
6"
2"
16"
8"
19"
(6) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
12$\frac{3}{8}$"
1$\frac{3}{8}$"
LAMINATION THICKNESS, TYP
12"x$\frac{5}{8}$"x12" PL EA SIDE OF GLULAM COLUMN.
SEE DETAIL "2/S-901" ELEV 5-5 FOR $\frac{5}{8}$" PLATE FOR VERT ROD X-BRACEING NOT SHOWN ON COL LINE A.

STANDOFF SUPPORT POST ASSEMBLY PLAN
AT COL A3 ONLY

PLAN NORTH

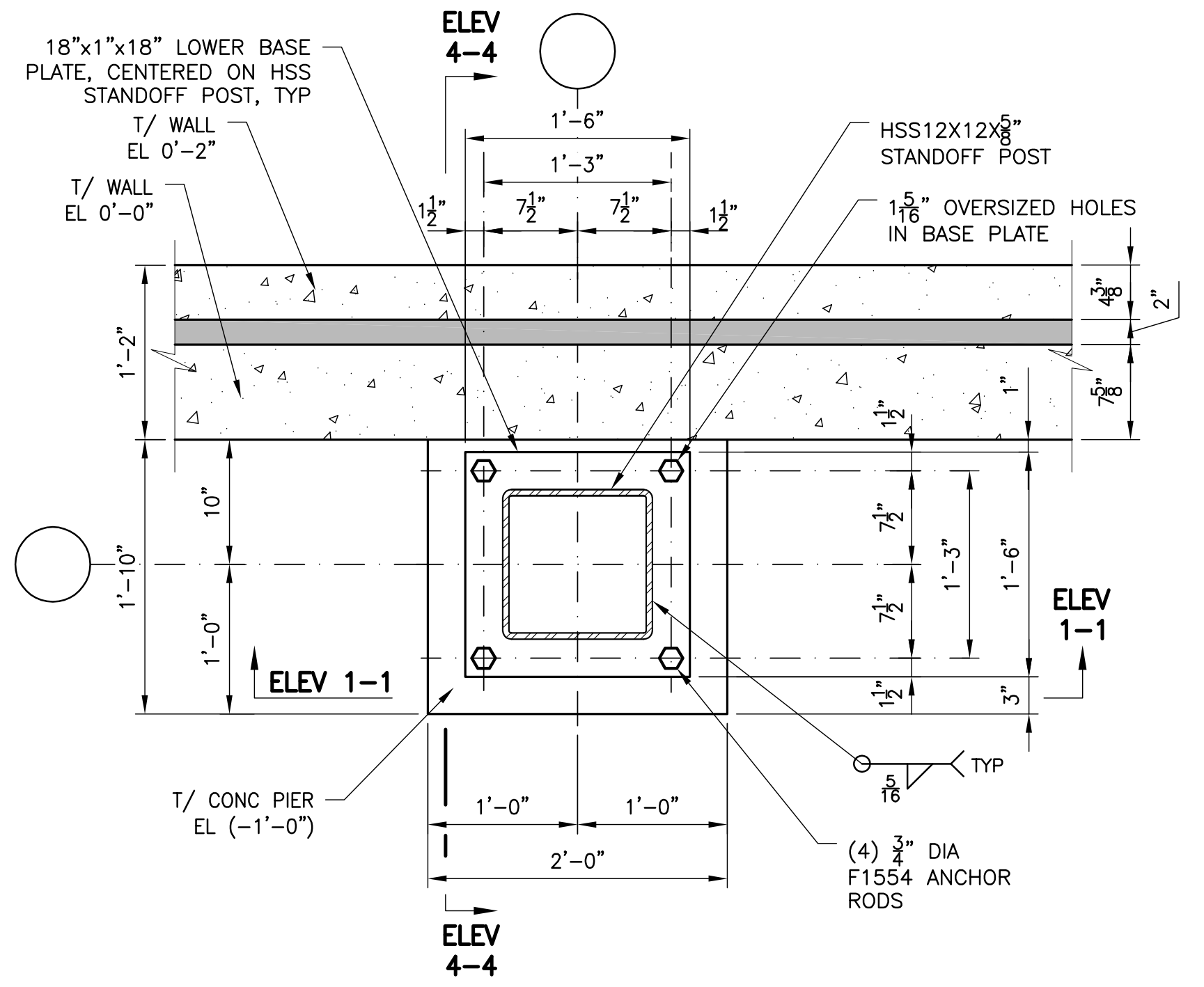
PLAN NORTH


ELEV 2-2
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
1'-6"
1'-3"
1$\frac{1}{2}$"
7$\frac{1}{2}$"
7$\frac{1}{2}$"
1$\frac{1}{2}$"
HSS12x12x$\frac{5}{8}$" STANDOFF POST
1$\frac{5}{16}$" OVERSIZED HOLES IN BASE PLATE
2'-0"
1'-0"
1'-0"
1'-3"
1'-6"
ELEV 1-1
ELEV 1-1
$\frac{5}{16}$
TYP
T/ CONC PIER
EL (-1'-0")
1'-0"
1'-0"
2'-0"
ELEV 2-2

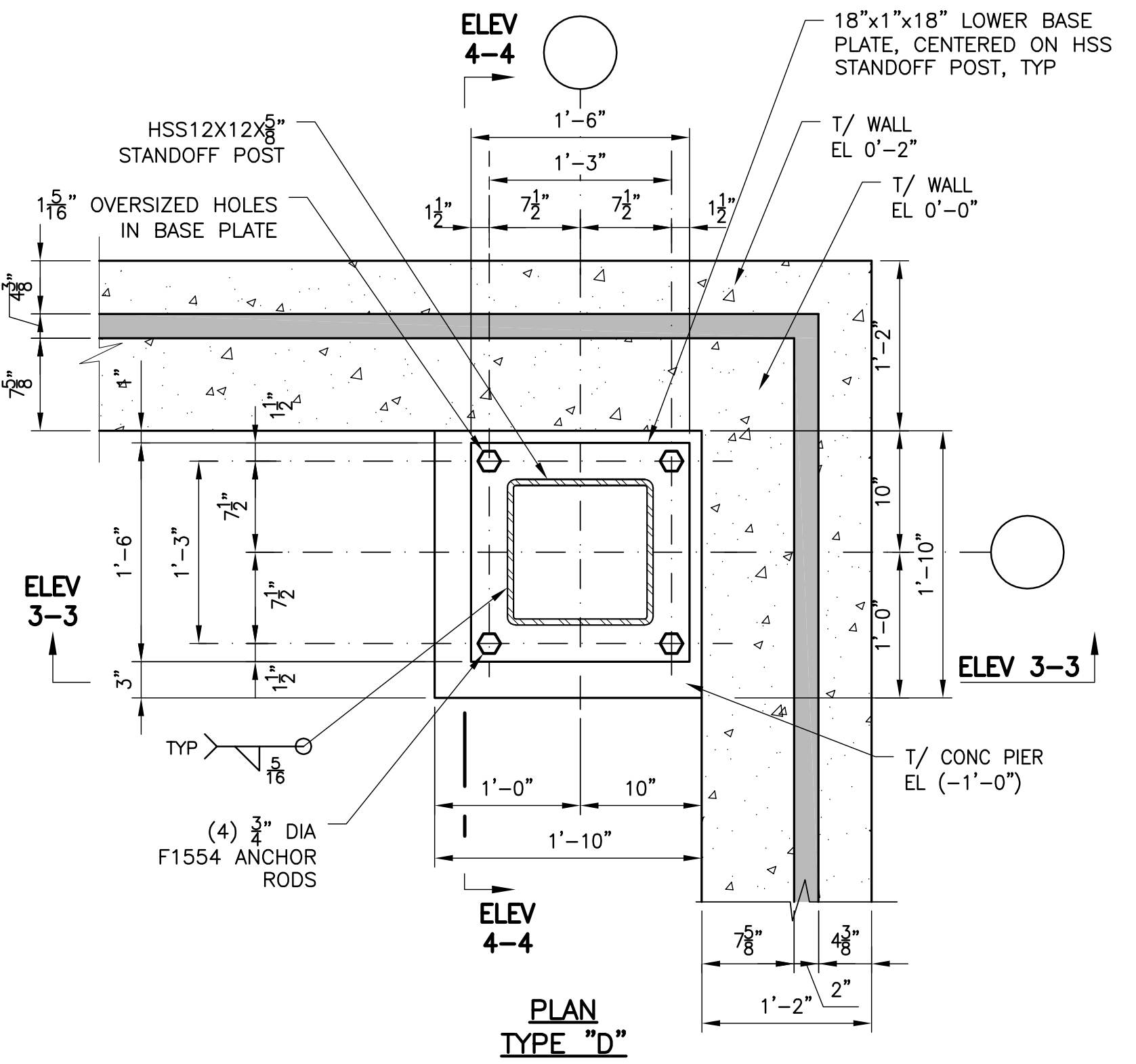
PLAN
TYPE "A"

NOT USED

PLAN
TYPE "B"


18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
ELEV 4-4
T/ WALL
EL 0'-2"
T/ WALL
EL 0'-0"
1'-6"
1'-3"
1$\frac{1}{2}$"
7$\frac{1}{2}$"
7$\frac{1}{2}$"
1$\frac{1}{2}$"
HSS12X12X$\frac{5}{8}$" STANDOFF POST
1$\frac{5}{16}$" OVERSIZED HOLES IN BASE PLATE
1'-2"
10"
1'-10"
1'-0"
ELEV 1-1
ELEV 1-1
T/ CONC PIER
EL (-1'-0")
1'-0"
1'-0"
2'-0"
$\frac{5}{16}$
TYP
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
ELEV 4-4

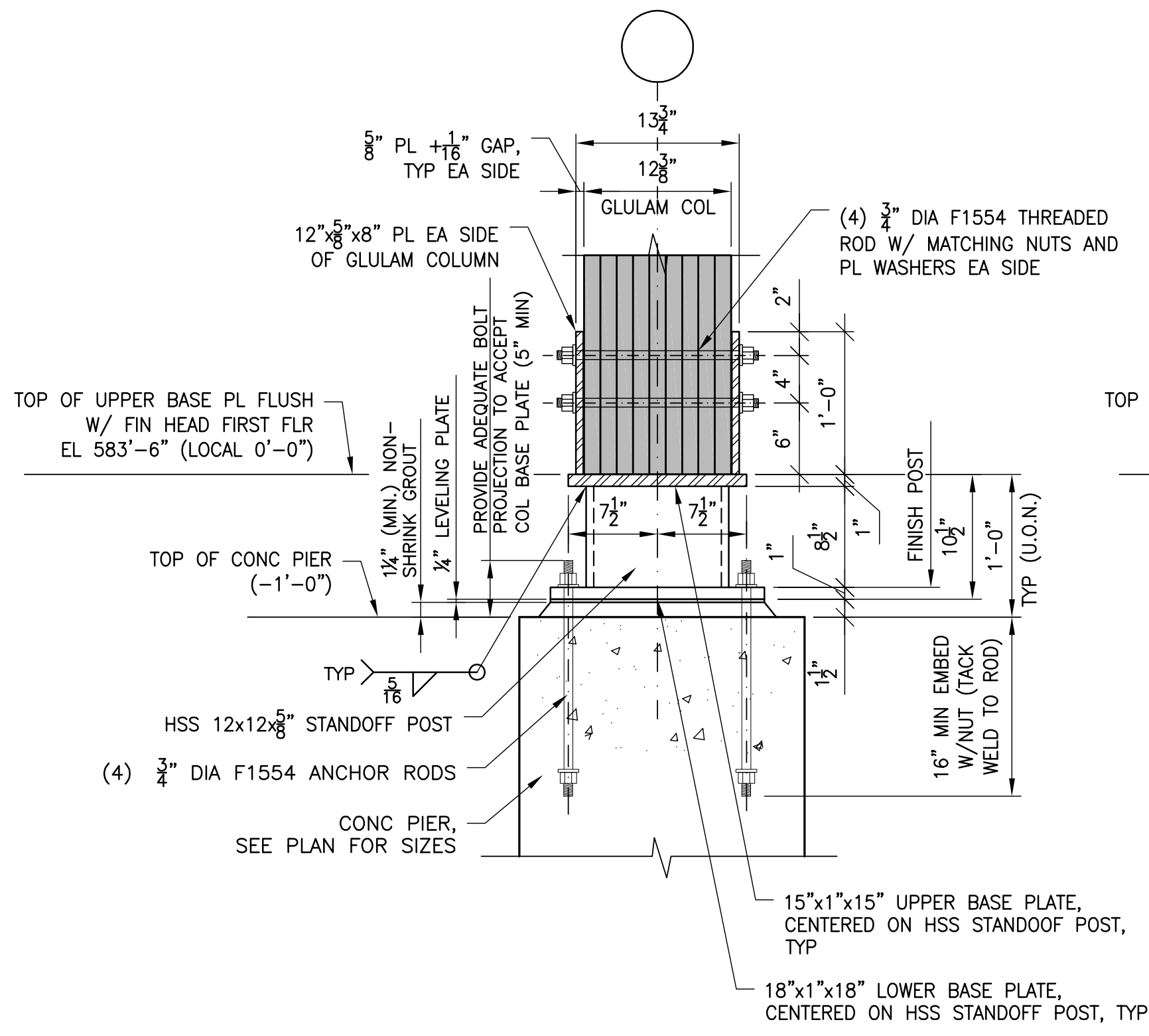
PLAN
TYPE "C"


ELEV 4-4
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
HSS12X12X$\frac{5}{8}$" STANDOFF POST
1$\frac{5}{16}$" OVERSIZED HOLES IN BASE PLATE
T/ WALL
EL 0'-2"
T/ WALL
EL 0'-0"
1'-6"
1'-3"
ELEV 3-3
ELEV 3-3
TYP
$\frac{5}{16}$
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
T/ CONC PIER
EL (-1'-0")
1'-0"
10"
1'-10"
ELEV 4-4
7$\frac{5}{8}$"
4$\frac{3}{8}$"
2"
1'-2"

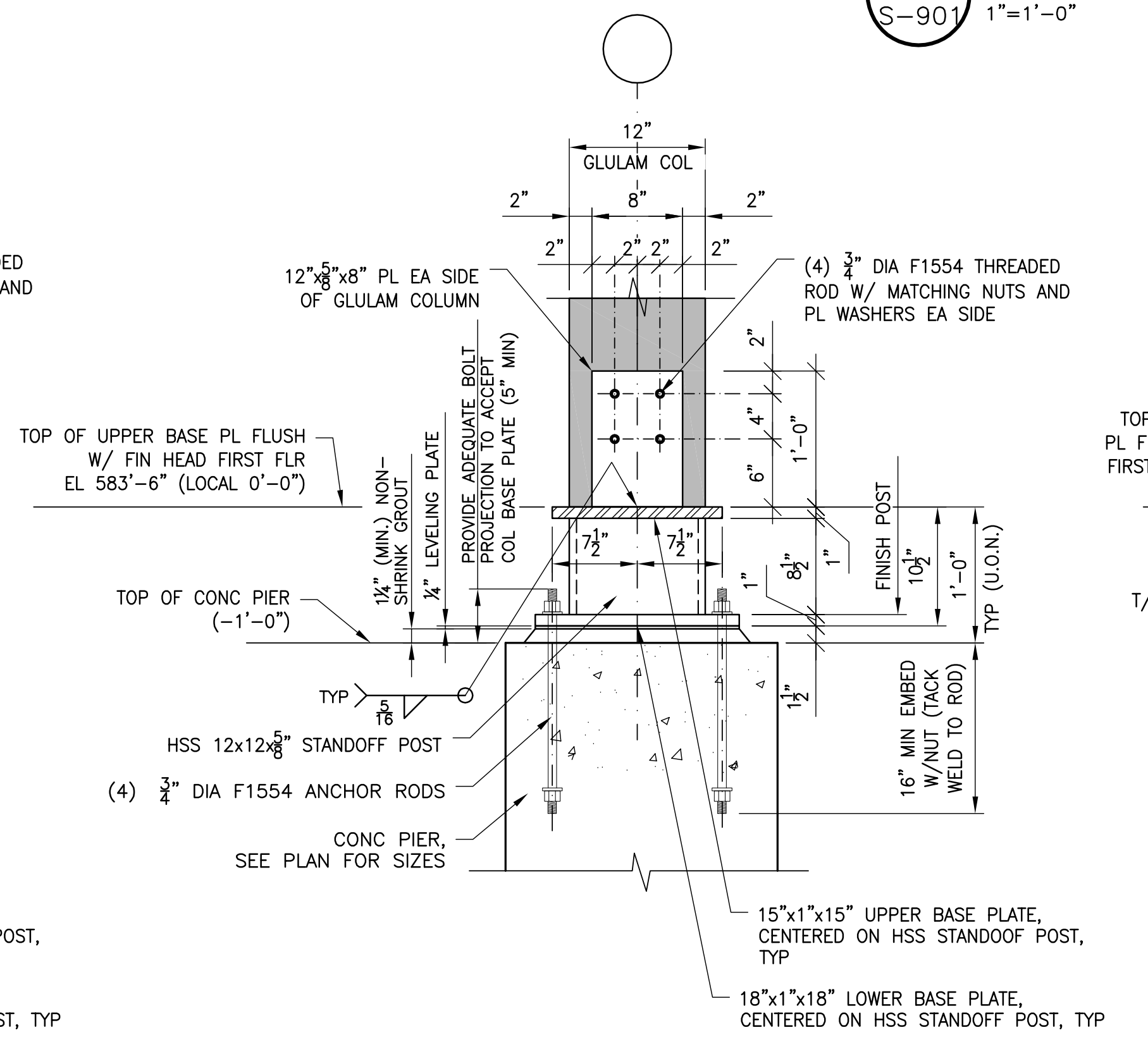
PLAN
TYPE "D"

1 WOOD COLUMNS – STANDOFF SUPPORT POST – LOWER BASE PLATE DETAIL TYPES

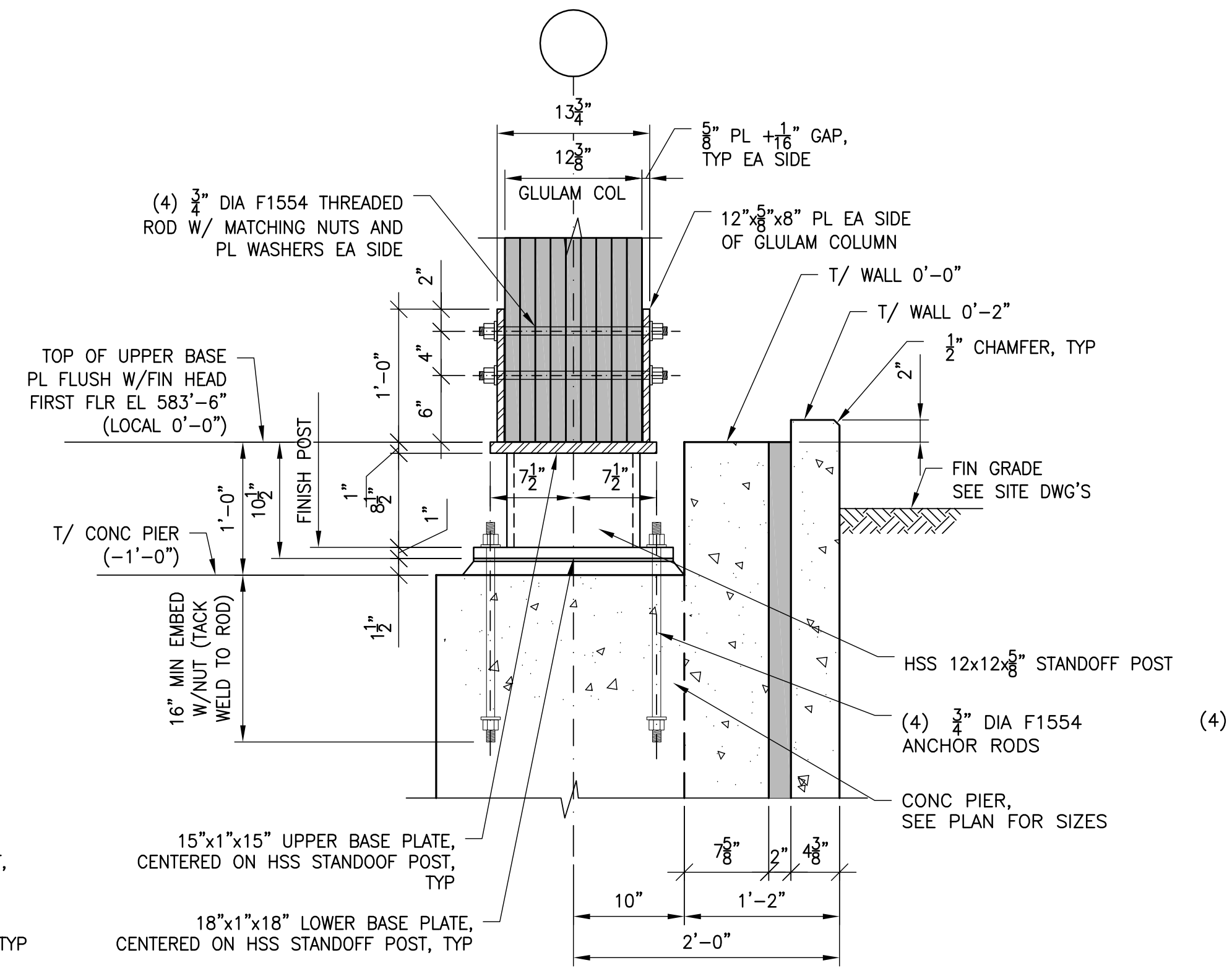
S-901 1"=1'-0"


$\frac{5}{8}$" PL +$\frac{1}{16}$" GAP, TYP EA SIDE
13$\frac{3}{4}$"
12$\frac{3}{8}$"
GLULAM COL
12"x$\frac{5}{8}$"x8" PL EA SIDE OF GLULAM COLUMN
(4) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
1$\frac{1}{4}$" (MIN.) NON-SHRINK GROUT
$\frac{1}{4}$" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
TOP OF CONC PIER (-1'-0")
FINISH POST
TYP (U.O.N.)
TYP
$\frac{5}{16}$
HSS 12x12x$\frac{5}{8}$" STANDOFF POST
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
16" MIN EMBED W/NUT (TACK WELD TO ROD)
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

ELEVATION
1-1

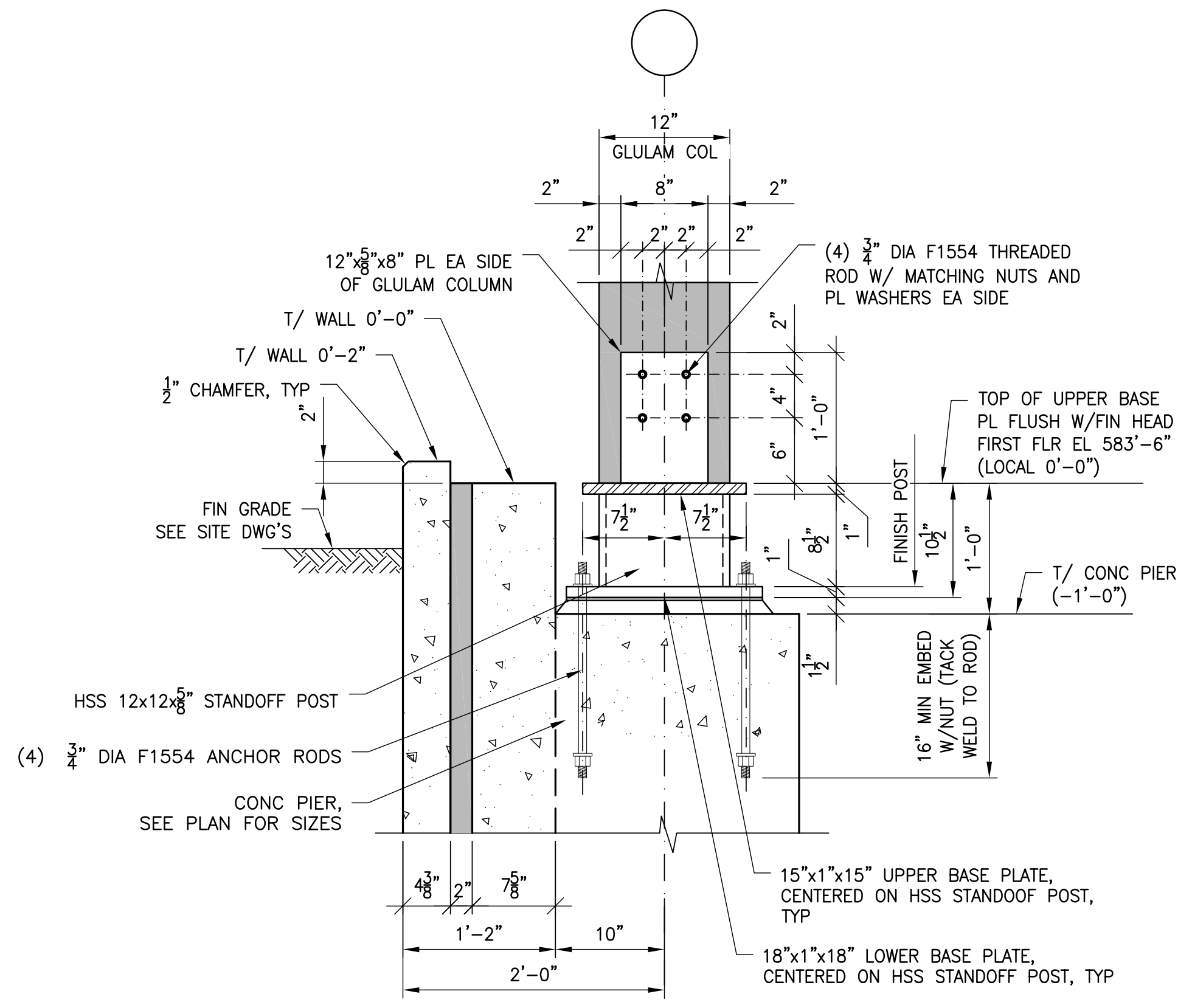

12"
GLULAM COL
2"
8"
2"
12"x$\frac{5}{8}$"x8" PL EA SIDE OF GLULAM COLUMN
(4) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
1$\frac{1}{4}$" (MIN.) NON-SHRINK GROUT
$\frac{1}{4}$" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
TOP OF CONC PIER (-1'-0")
FINISH POST
TYP (U.O.N.)
TYP
$\frac{5}{16}$
HSS 12x12x$\frac{5}{8}$" STANDOFF POST
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
16" MIN EMBED W/NUT (TACK WELD TO ROD)
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

ELEVATION
2-2


13$\frac{3}{4}$"
12$\frac{3}{8}$"
GLULAM COL
$\frac{5}{8}$" PL +$\frac{1}{16}$" GAP, TYP EA SIDE
(4) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
12"x$\frac{5}{8}$"x8" PL EA SIDE OF GLULAM COLUMN
T/ WALL 0'-0"
T/ WALL 0'-2"
$\frac{1}{2}$" CHAMFER, TYP
TOP OF UPPER BASE PL FLUSH W/FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
FIN GRADE SEE SITE DWG'S
T/ CONC PIER (-1'-0")
FINISH POST
16" MIN EMBED W/NUT (TACK WELD TO ROD)
HSS 12x12x$\frac{5}{8}$" STANDOFF POST
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
7$\frac{5}{8}$"
2"
4$\frac{3}{8}$"
10"
1'-2"
2'-0"

NOTES:
1. SEE DETAIL "2/S901" WOOD COLUMNS– STANDOFF SUPPORT POST ASSEMBLIES – ELEVATION 1-1, FOR MORE INFORMATION NOT SHOWN.

ELEVATION
3-3


12"
GLULAM COL
2"
8"
2"
12"x$\frac{5}{8}$"x8" PL EA SIDE OF GLULAM COLUMN
(4) $\frac{3}{4}$" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
T/ WALL 0'-0"
T/ WALL 0'-2"
$\frac{1}{2}$" CHAMFER, TYP
TOP OF UPPER BASE PL FLUSH W/FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
FIN GRADE SEE SITE DWG'S
T/ CONC PIER (-1'-0")
FINISH POST
16" MIN EMBED W/NUT (TACK WELD TO ROD)
HSS 12x12x$\frac{5}{8}$" STANDOFF POST
(4) $\frac{3}{4}$" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
4$\frac{3}{8}$"
2"
7$\frac{5}{8}$"
1'-2"
10"
2'-0"

NOTES:
1. SEE DETAIL "2/S901" WOOD COLUMNS– STANDOFF SUPPORT POST ASSEMBLIES – ELEVATION 2-2, FOR MORE INFORMATION NOT SHOWN.

ELEVATION
4-4

2 WOOD COLUMNS – STANDOFF SUPPORT POST ASSEMBLIES – ELEVATIONS

S-901 1"=1'-0"

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Interactive Engineering Solutions P.C.
Certificate of Authorization No. 0022543
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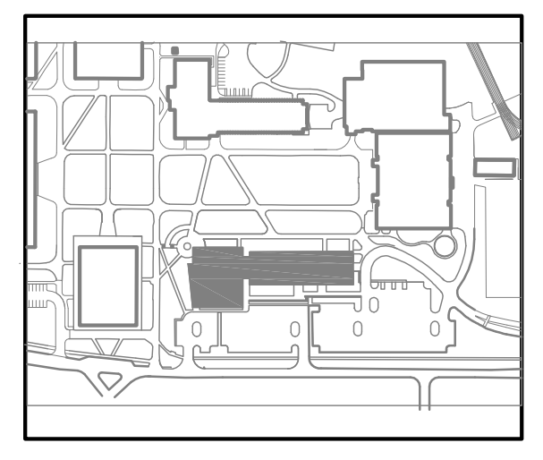
DOUGLAS R. CAHILL
061675

Douglas R. Cahill, PE
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

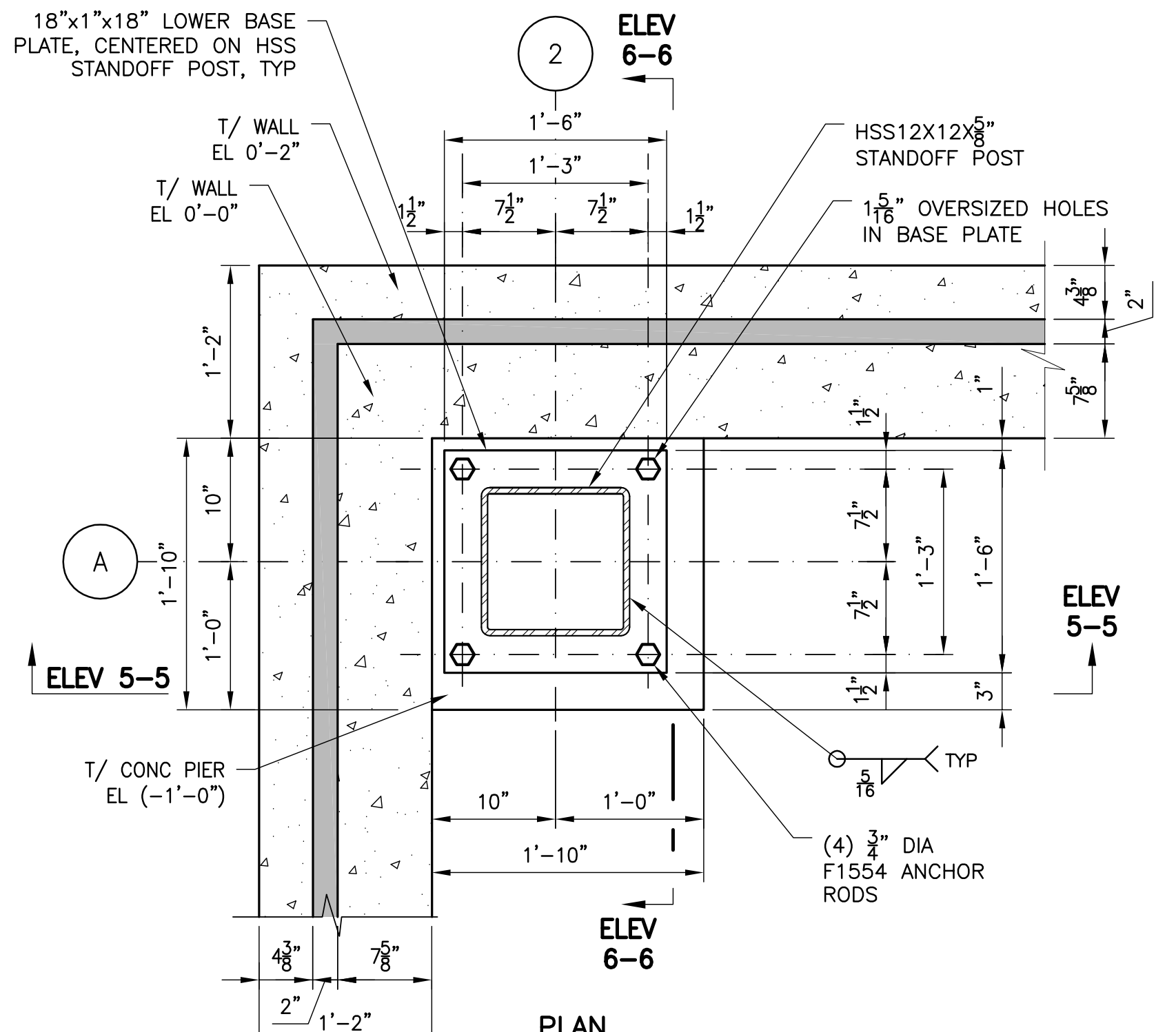
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

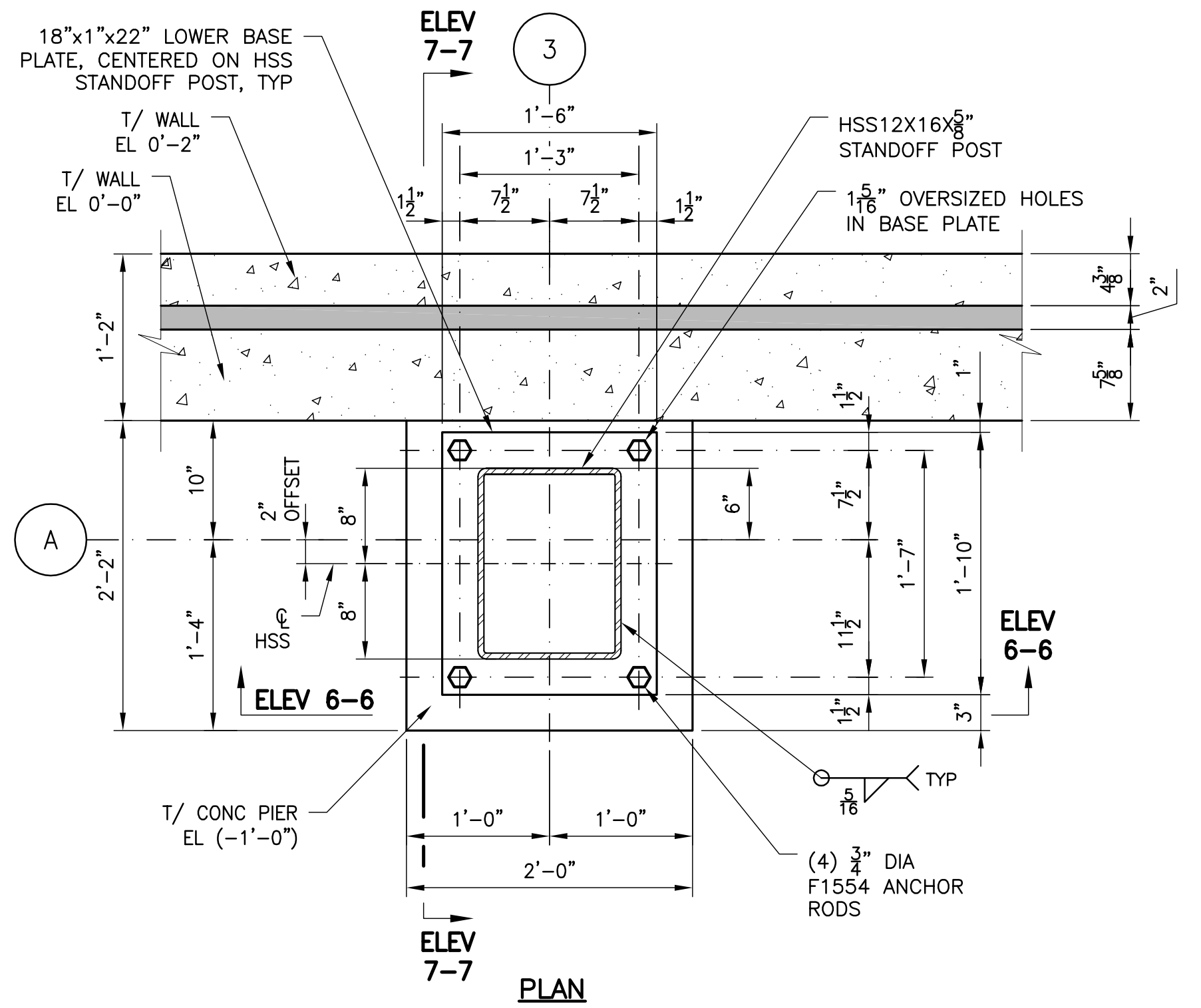
HEAD BUILDING – WOOD FRAMING COLUMN SCHEDULE AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

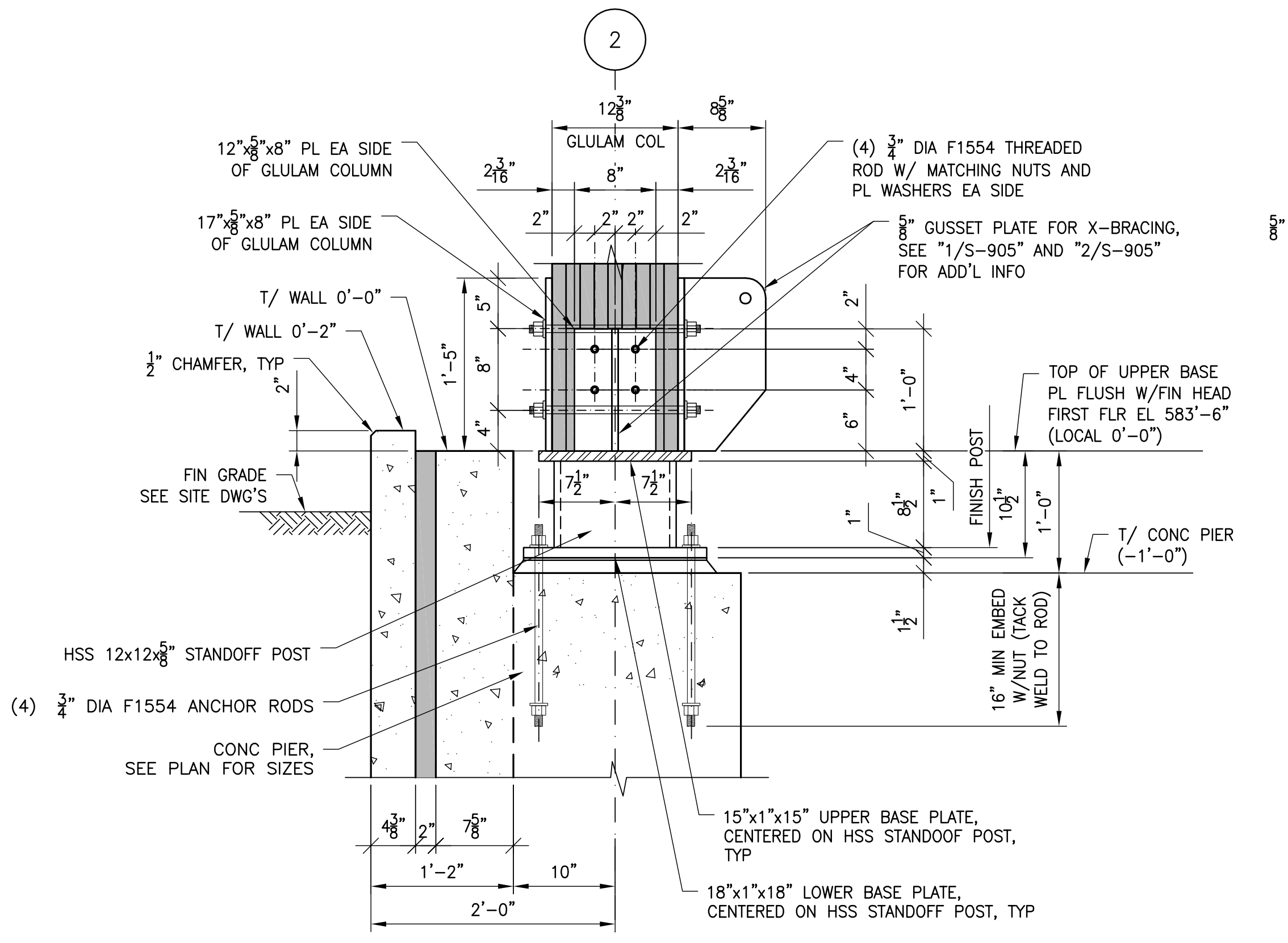
S-901


18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
T/ WALL EL 0'-2"
T/ WALL EL 0'-0"
HSS12X12X5/8" STANDOFF POST
1 5/16" OVERSIZED HOLES IN BASE PLATE
ELEV 6-6
ELEV 5-5
T/ CONC PIER EL (-1'-0")
(4) 3/4" DIA F1554 ANCHOR RODS
TYP
2
A
1'-6"
1'-3"
1'-10"
1'-2"

PLAN
TYPE "E"

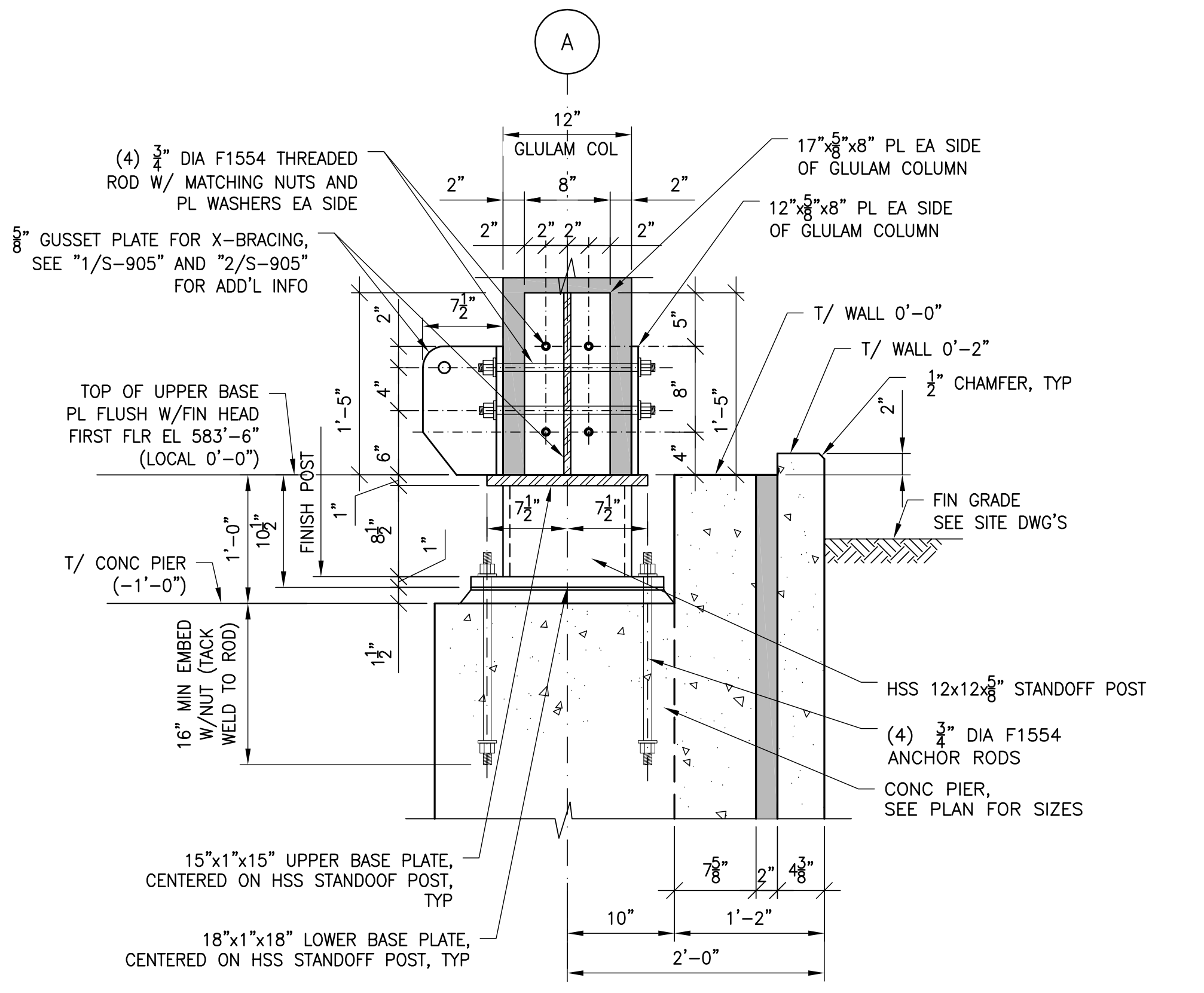

18"x1"x22" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
T/ WALL EL 0'-2"
T/ WALL EL 0'-0"
HSS12X16X5/8" STANDOFF POST
1 5/16" OVERSIZED HOLES IN BASE PLATE
2" OFFSET
℄ HSS
ELEV 7-7
ELEV 6-6
T/ CONC PIER EL (-1'-0")
(4) 3/4" DIA F1554 ANCHOR RODS
TYP
3
A
2'-2"
2'-0"

PLAN
TYPE "F"


2
GLULAM COL
12"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
17"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
(4) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
5/8" GUSSET PLATE FOR X-BRACING, SEE "1/S-905" AND "2/S-905" FOR ADD'L INFO
T/ WALL 0'-0"
T/ WALL 0'-2"
1/2" CHAMFER, TYP
FIN GRADE SEE SITE DWG'S
TOP OF UPPER BASE PL FLUSH W/FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
FINISH POST
T/ CONC PIER (-1'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

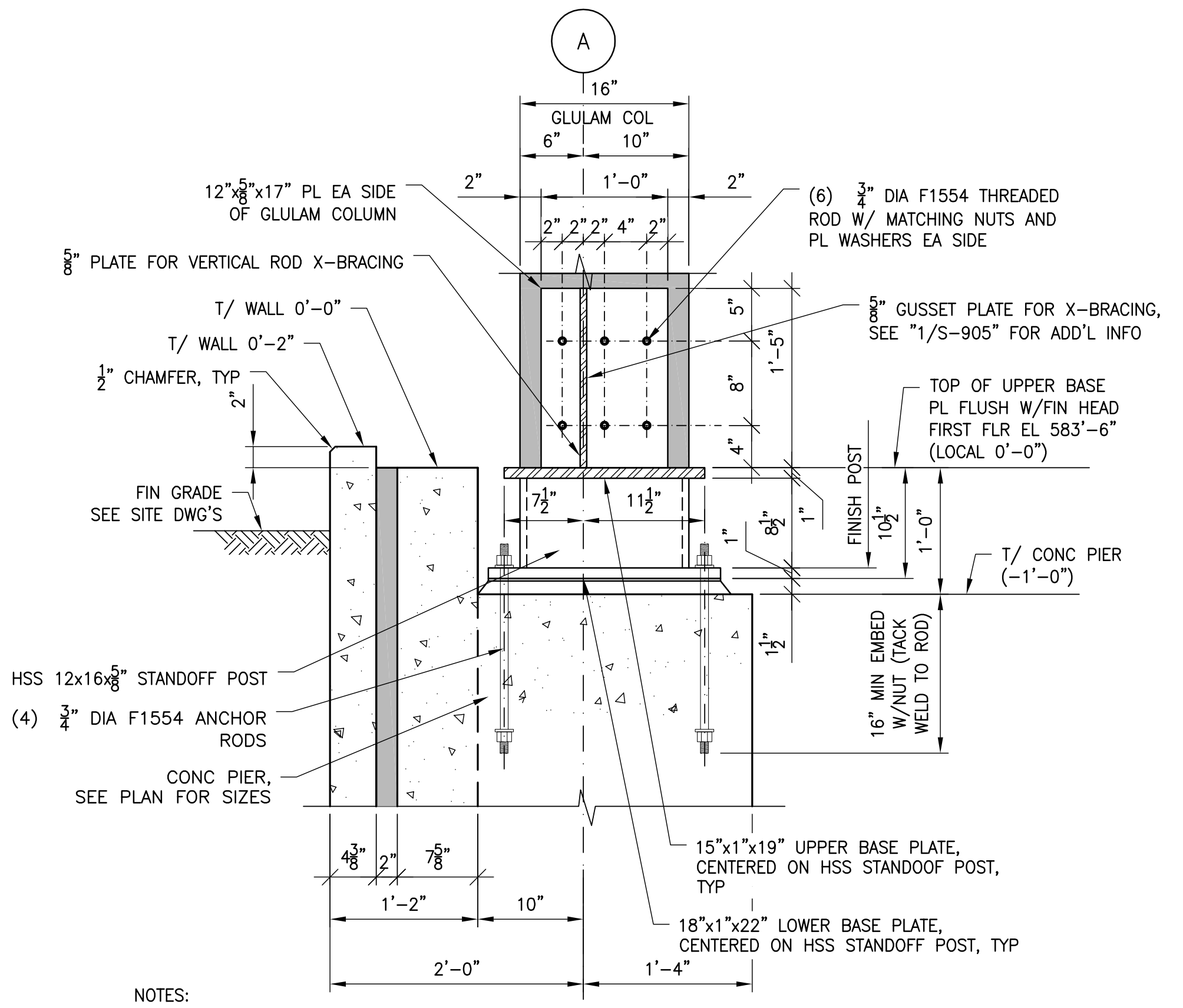
NOTES:
1. SEE DETAIL "2/S901" WOOD COLUMNS– STANDOFF SUPPORT POST ASSEMBLIES – ELEVATION 2-2, FOR MORE INFORMATION NOT SHOWN.

ELEVATION
5-5


A
GLULAM COL
(4) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
5/8" GUSSET PLATE FOR X-BRACING, SEE "1/S-905" AND "2/S-905" FOR ADD'L INFO
17"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
12"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
TOP OF UPPER BASE PL FLUSH W/FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
FINISH POST
T/ CONC PIER (-1'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
T/ WALL 0'-0"
T/ WALL 0'-2"
1/2" CHAMFER, TYP
FIN GRADE SEE SITE DWG'S
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

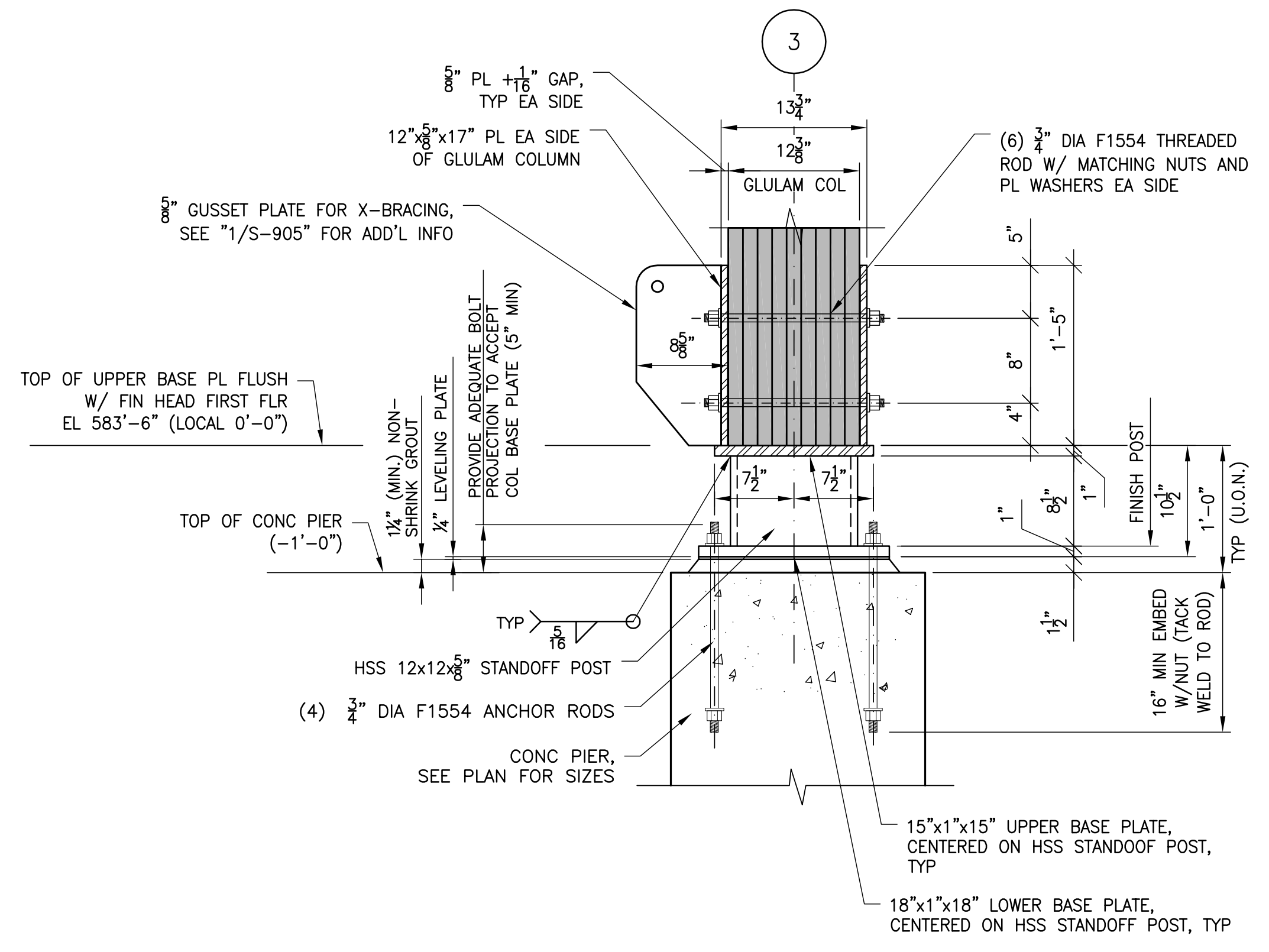
ELEVATION
6-6

NOTES:
1. SEE DETAIL "2/S901" WOOD COLUMNS– STANDOFF SUPPORT POST ASSEMBLIES – ELEVATION 2-2, FOR MORE INFORMATION NOT SHOWN.

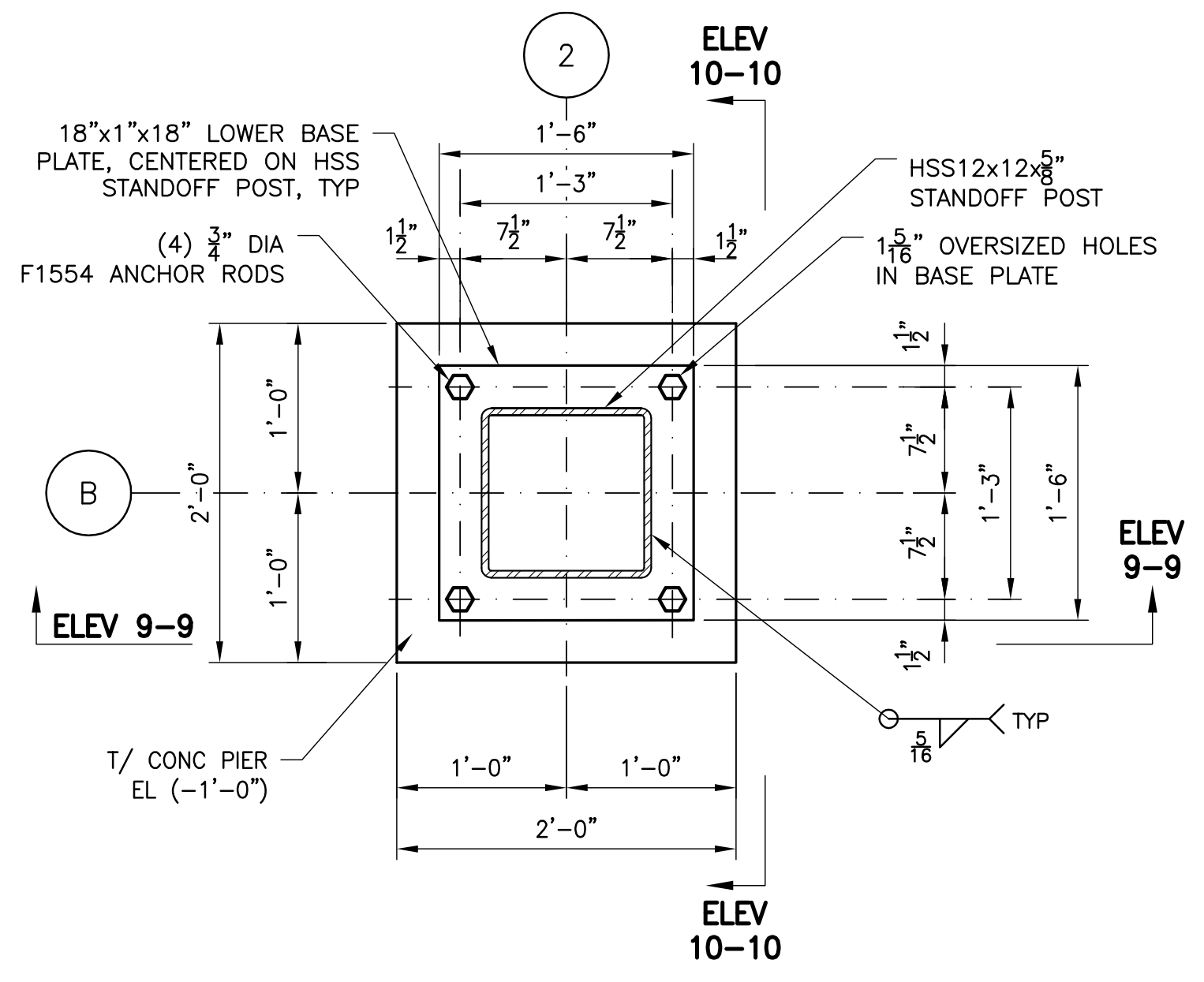

A
GLULAM COL
12"x5/8"x17" PL EA SIDE OF GLULAM COLUMN
5/8" PLATE FOR VERTICAL ROD X-BRACING
(6) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
5/8" GUSSET PLATE FOR X-BRACING, SEE "1/S-905" FOR ADD'L INFO
T/ WALL 0'-0"
T/ WALL 0'-2"
1/2" CHAMFER, TYP
FIN GRADE SEE SITE DWG'S
TOP OF UPPER BASE PL FLUSH W/FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
FINISH POST
T/ CONC PIER (-1'-0")
16" MIN EMBED W/NUT (TACK WELD TO ROD)
HSS 12x16x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x19" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x22" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

NOTES:
1. SEE DETAIL "2/S901" WOOD COLUMNS– STANDOFF SUPPORT POST ASSEMBLIES – ELEVATION 2-2, FOR MORE INFORMATION NOT SHOWN.

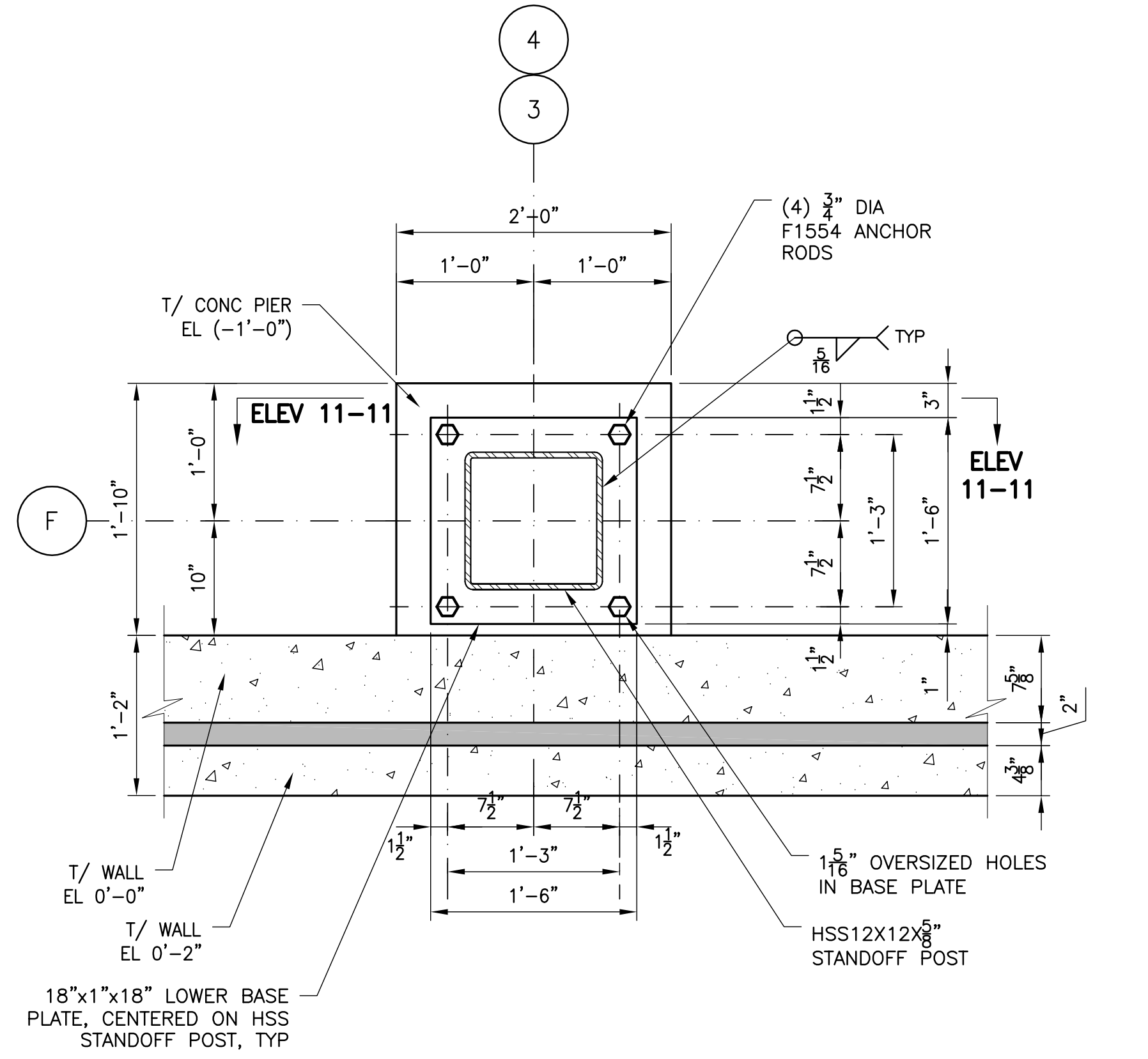
ELEVATION
7-7


3
5/8" PL +1/16" GAP, TYP EA SIDE
12"x5/8"x17" PL EA SIDE OF GLULAM COLUMN
5/8" GUSSET PLATE FOR X-BRACING, SEE "1/S-905" FOR ADD'L INFO
GLULAM COL
(6) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
TOP OF CONC PIER (-1'-0")
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
FINISH POST
TYP (U.O.N.)
16" MIN EMBED W/NUT (TACK WELD TO ROD)
TYP
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

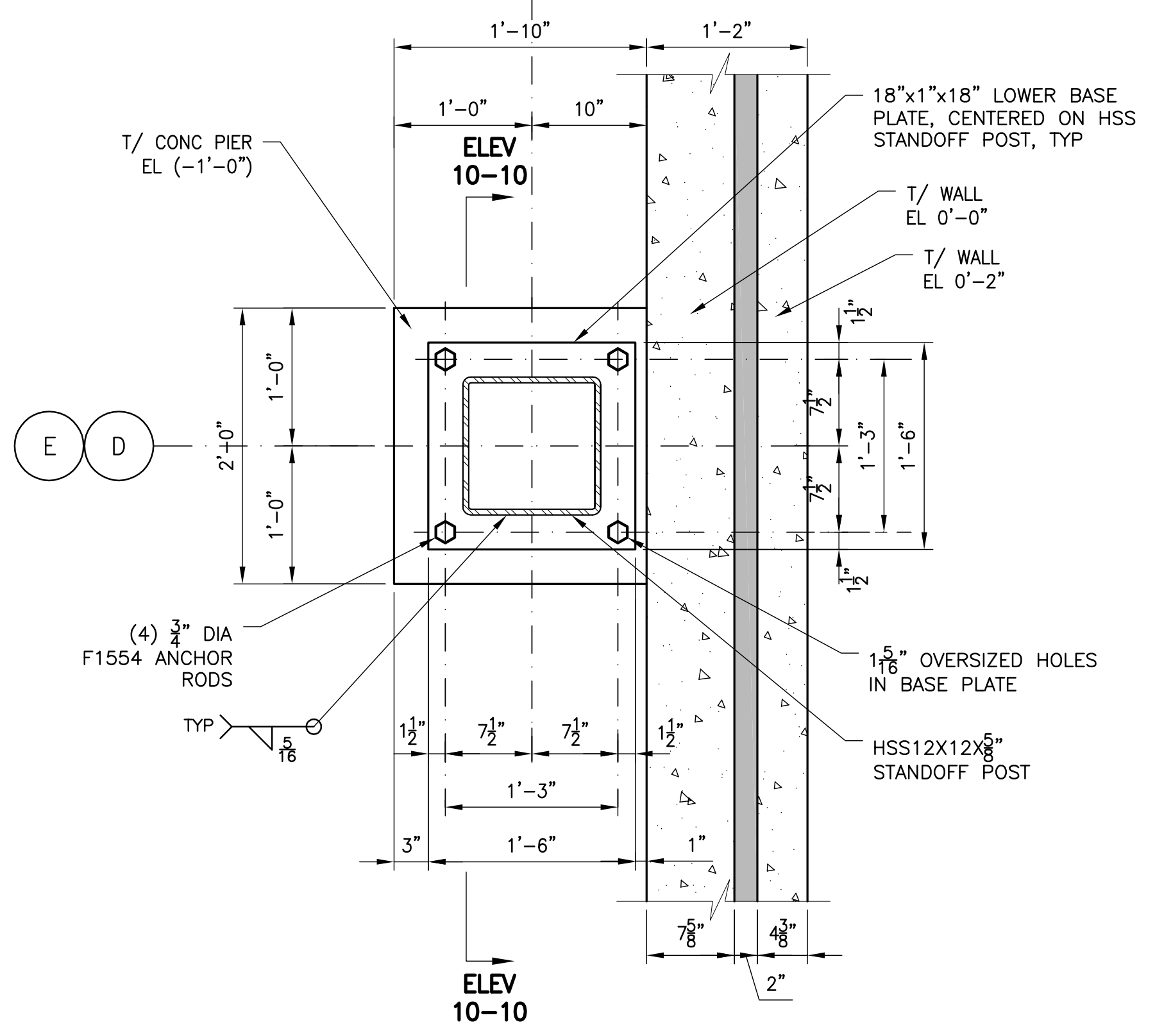
ELEVATION
8-8


2
ELEV 10-10
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
(4) 3/4" DIA F1554 ANCHOR RODS
HSS12x12x5/8" STANDOFF POST
1 5/16" OVERSIZED HOLES IN BASE PLATE
B
ELEV 9-9
T/ CONC PIER EL (-1'-0")
TYP
2'-0"

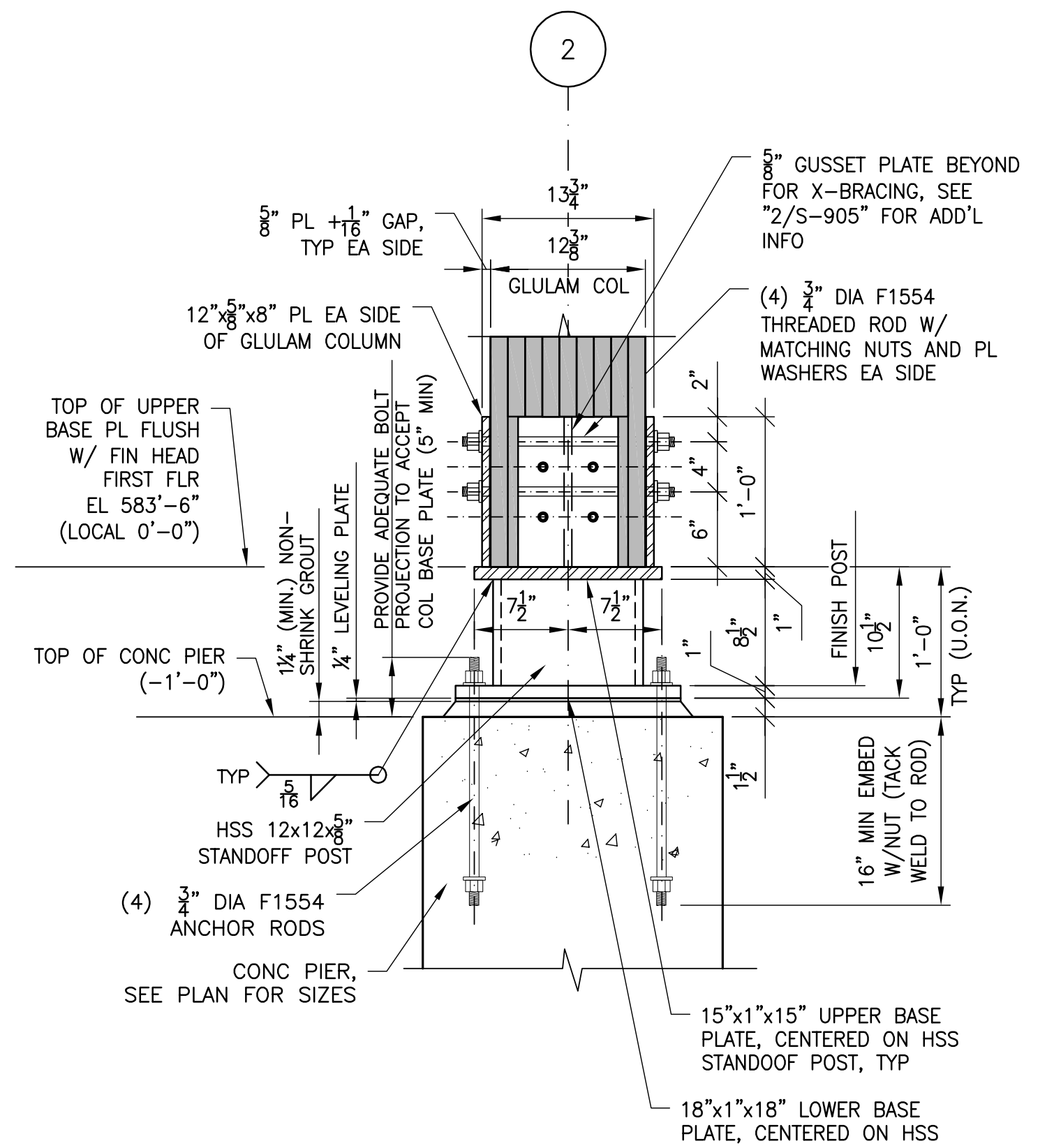
PLAN
TYPE "G"


4
3
(4) 3/4" DIA F1554 ANCHOR RODS
T/ CONC PIER EL (-1'-0")
TYP
ELEV 11-11
F
T/ WALL EL 0'-0"
T/ WALL EL 0'-2"
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
1 5/16" OVERSIZED HOLES IN BASE PLATE
HSS12X12X5/8" STANDOFF POST
2'-0"

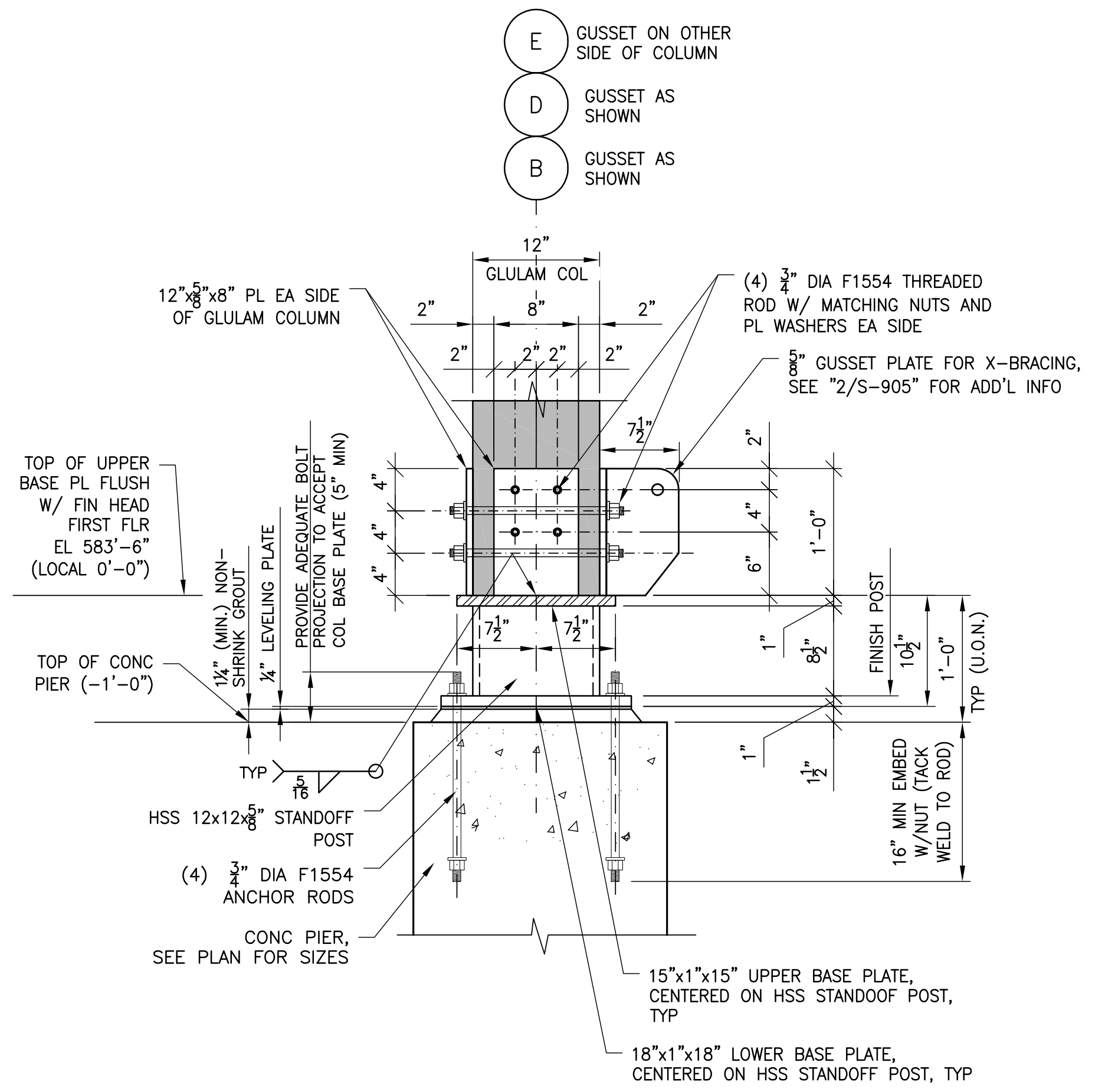
PLAN
TYPE "H"


7
T/ CONC PIER EL (-1'-0")
ELEV 10-10
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP
T/ WALL EL 0'-0"
T/ WALL EL 0'-2"
E
D
(4) 3/4" DIA F1554 ANCHOR RODS
TYP
1 5/16" OVERSIZED HOLES IN BASE PLATE
HSS12X12X5/8" STANDOFF POST
1'-10"
1'-2"

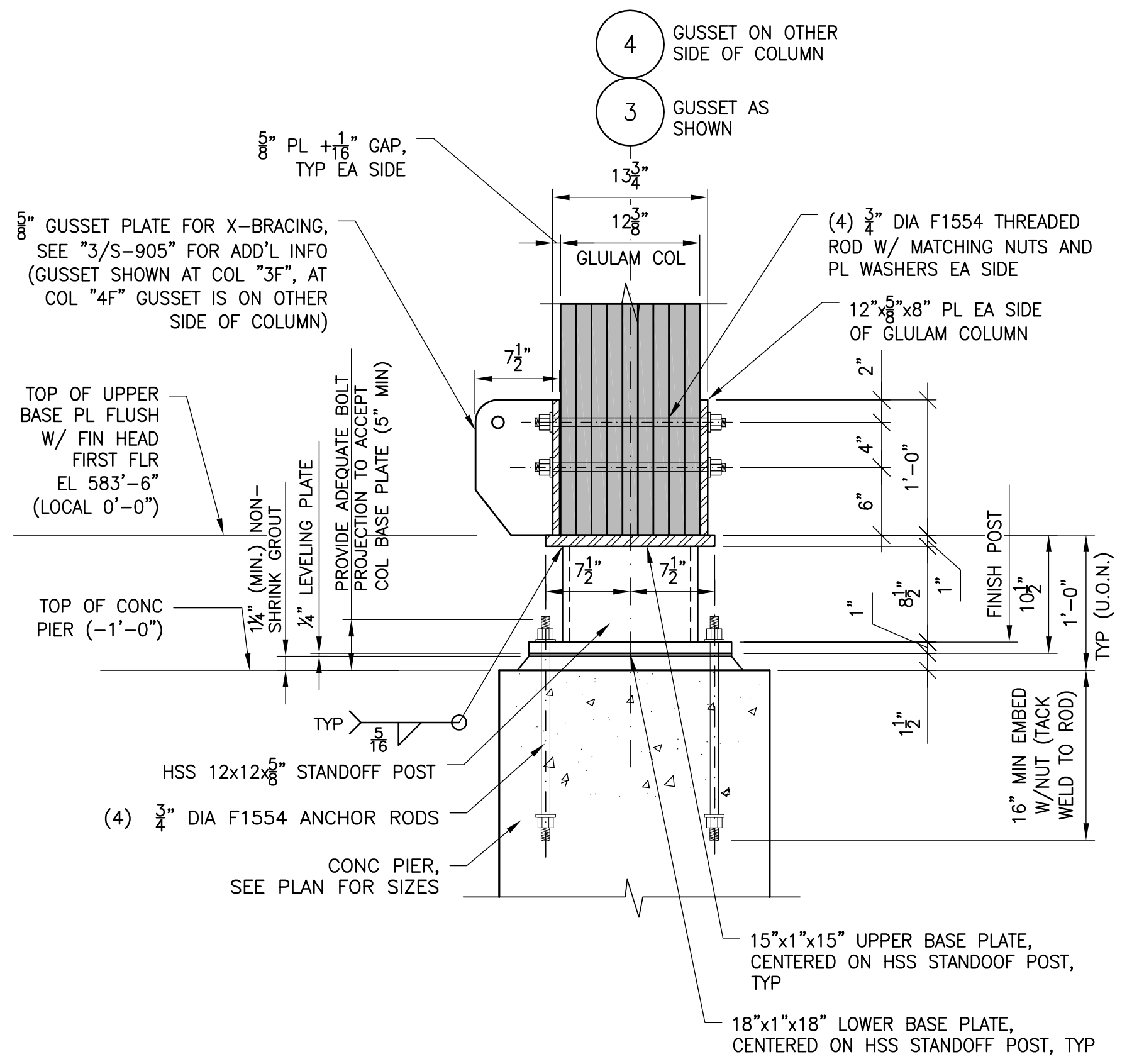
PLAN
TYPE "J"


2
5/8" PL +1/16" GAP, TYP EA SIDE
12"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
GLULAM COL
5/8" GUSSET PLATE BEYOND FOR X-BRACING, SEE "2/S-905" FOR ADD'L INFO
(4) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
TOP OF CONC PIER (-1'-0")
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
FINISH POST
TYP (U.O.N.)
16" MIN EMBED W/NUT (TACK WELD TO ROD)
TYP
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

ELEVATION
9-9


E
GUSSET ON OTHER SIDE OF COLUMN
D
GUSSET AS SHOWN
B
GUSSET AS SHOWN
GLULAM COL
12"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
(4) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
5/8" GUSSET PLATE FOR X-BRACING, SEE "2/S-905" FOR ADD'L INFO
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
TOP OF CONC PIER (-1'-0")
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
FINISH POST
TYP (U.O.N.)
16" MIN EMBED W/NUT (TACK WELD TO ROD)
TYP
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

ELEVATION
10-10


4
GUSSET ON OTHER SIDE OF COLUMN
3
GUSSET AS SHOWN
5/8" PL +1/16" GAP, TYP EA SIDE
5/8" GUSSET PLATE FOR X-BRACING, SEE "3/S-905" FOR ADD'L INFO (GUSSET SHOWN AT COL "3F", AT COL "4F" GUSSET IS ON OTHER SIDE OF COLUMN)
GLULAM COL
(4) 3/4" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE
12"x5/8"x8" PL EA SIDE OF GLULAM COLUMN
TOP OF UPPER BASE PL FLUSH W/ FIN HEAD FIRST FLR EL 583'-6" (LOCAL 0'-0")
TOP OF CONC PIER (-1'-0")
1 1/4" (MIN.) NON-SHRINK GROUT
1/4" LEVELING PLATE
PROVIDE ADEQUATE BOLT PROJECTION TO ACCEPT COL BASE PLATE (5" MIN)
FINISH POST
TYP (U.O.N.)
16" MIN EMBED W/NUT (TACK WELD TO ROD)
TYP
HSS 12x12x5/8" STANDOFF POST
(4) 3/4" DIA F1554 ANCHOR RODS
CONC PIER, SEE PLAN FOR SIZES
15"x1"x15" UPPER BASE PLATE, CENTERED ON HSS STANDOOF POST, TYP
18"x1"x18" LOWER BASE PLATE, CENTERED ON HSS STANDOFF POST, TYP

ELEVATION
11-11

ONEIDA COUNTY
NEW YORK
1798

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(315) 792-5400

ARCHITECT:

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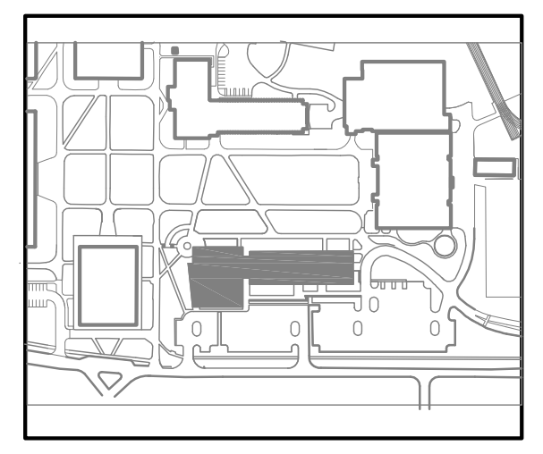
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:



PROJECT:

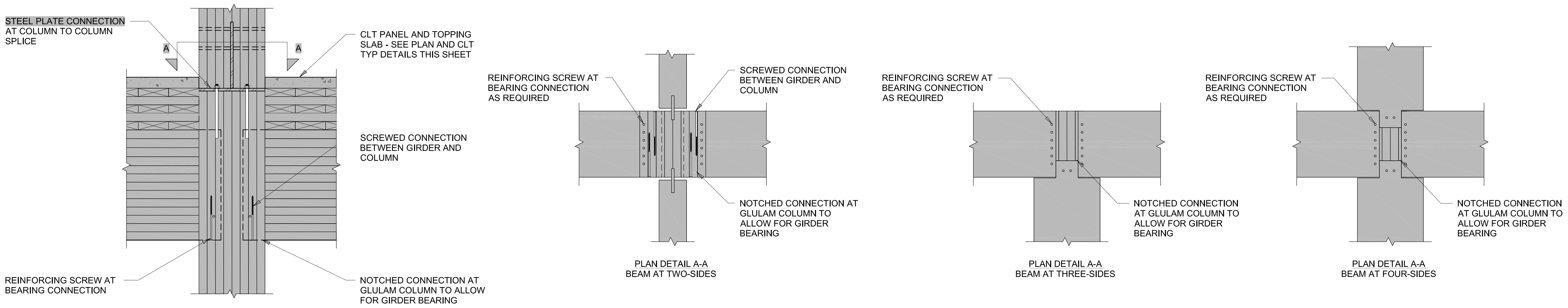
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – WOOD FRAMING COLUMN BASE PLATE DETAILS AT X-BRACES

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-901.1


STEEL PLATE CONNECTION AT COLUMN TO COLUMN SPLICE
A
A
CLT PANEL AND TOPPING SLAB - SEE PLAN AND CLT TYP DETAILS THIS SHEET
SCREWED CONNECTION BETWEEN GIRDER AND COLUMN
REINFORCING SCREW AT BEARING CONNECTION
NOTCHED CONNECTION AT GLULAM COLUMN TO ALLOW FOR GIRDER BEARING
REINFORCING SCREW AT BEARING CONNECTION AS REQUIRED
SCREWED CONNECTION BETWEEN GIRDER AND COLUMN
NOTCHED CONNECTION AT GLULAM COLUMN TO ALLOW FOR GIRDER BEARING
REINFORCING SCREW AT BEARING CONNECTION AS REQUIRED
NOTCHED CONNECTION AT GLULAM COLUMN TO ALLOW FOR GIRDER BEARING
REINFORCING SCREW AT BEARING CONNECTION AS REQUIRED
NOTCHED CONNECTION AT GLULAM COLUMN TO ALLOW FOR GIRDER BEARING

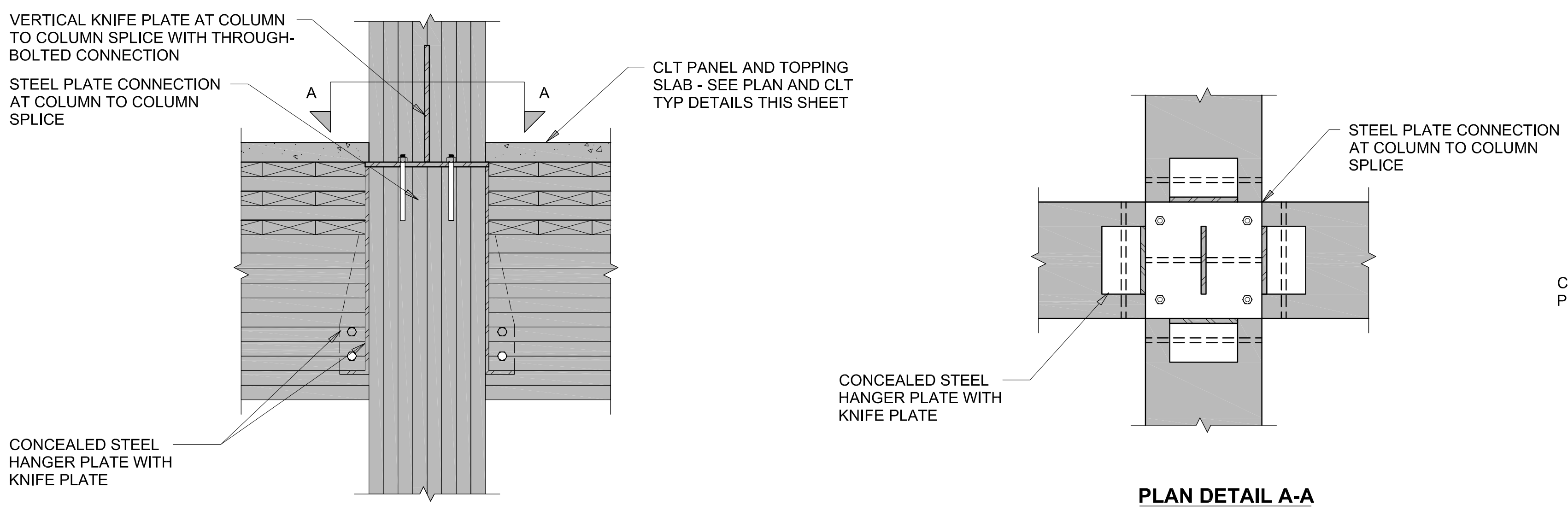
PLAN DETAIL A-A
BEAM AT TWO-SIDES

PLAN DETAIL A-A
BEAM AT THREE-SIDES

PLAN DETAIL A-A
BEAM AT FOUR-SIDES

GIRDER TO COLUMN BEARING CONNECTION - BEARING CONNECTION

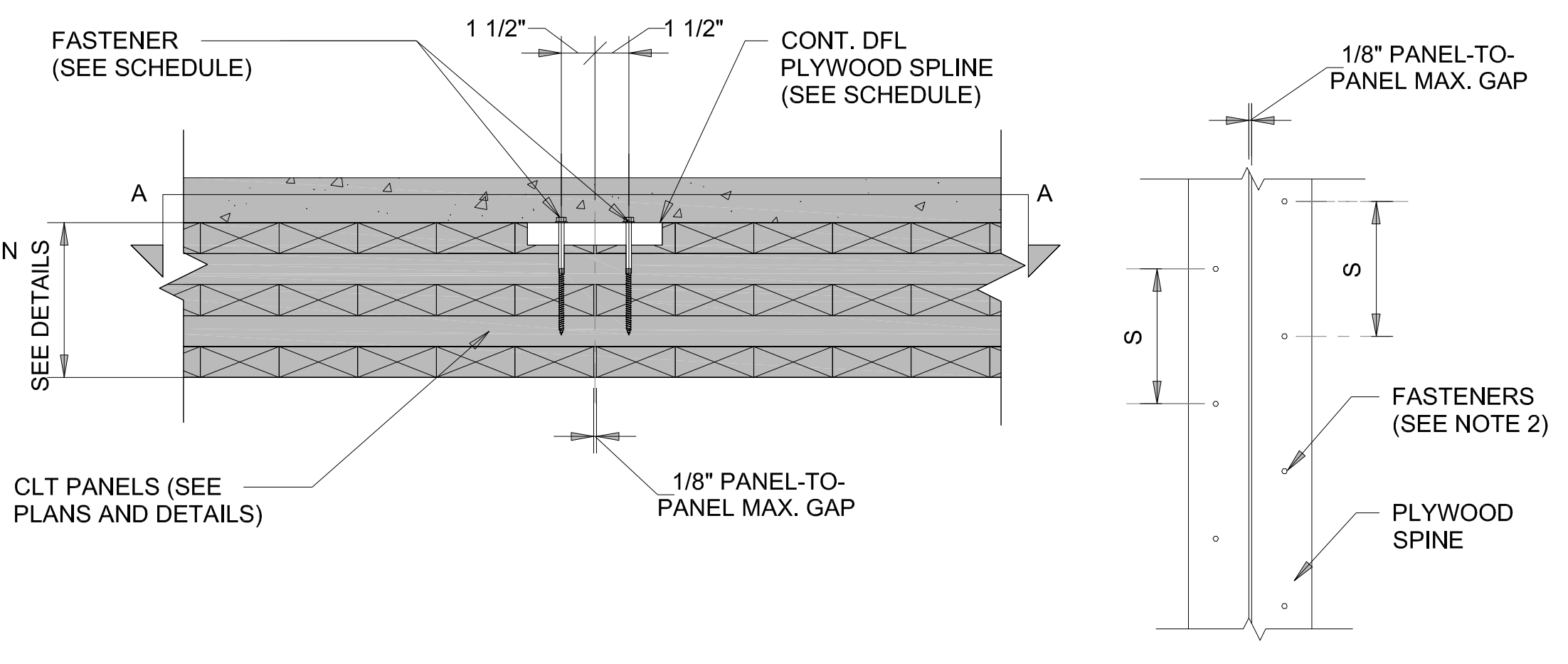
N.T.S.


VERTICAL KNIFE PLATE AT COLUMN TO COLUMN SPLICE WITH THROUGH-BOLTED CONNECTION
STEEL PLATE CONNECTION AT COLUMN TO COLUMN SPLICE
A
A
CLT PANEL AND TOPPING SLAB - SEE PLAN AND CLT TYP DETAILS THIS SHEET
CONCEALED STEEL HANGER PLATE WITH KNIFE PLATE
STEEL PLATE CONNECTION AT COLUMN TO COLUMN SPLICE
CONCEALED STEEL HANGER PLATE WITH KNIFE PLATE

PLAN DETAIL A-A

GIRDER TO COLUMN CONNECTION - FRAMING ON THREE OR FOUR SIDES OF COLUMN

1" = 1'-0"

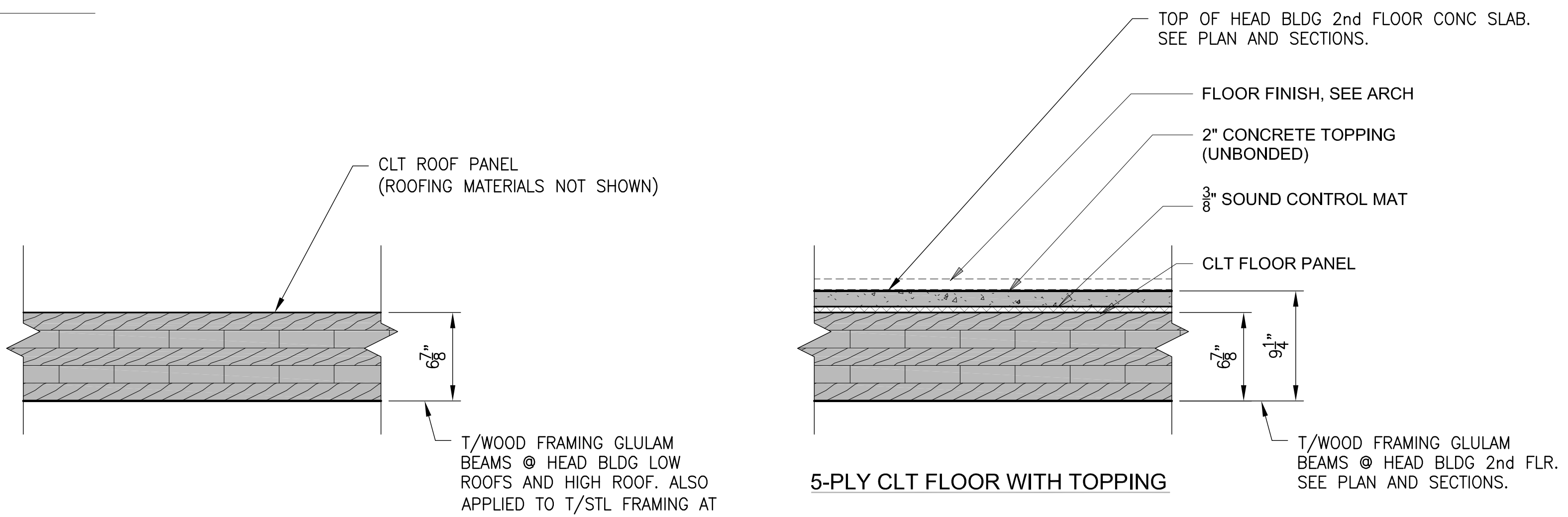

FASTENER (SEE SCHEDULE)
1 1/2"
1 1/2"
CONT. DFL PLYWOOD SPLINE (SEE SCHEDULE)
A
A
SEE DETAILS
CLT PANELS (SEE PLANS AND DETAILS)
1/8" PANEL-TO-PANEL MAX. GAP
1/8" PANEL-TO-PANEL MAX. GAP
S
S
FASTENERS (SEE NOTE 2)
PLYWOOD SPINE

SECTION A-A

NOTES:
1. FINAL SPLICE DETAILS PENDING PANEL LAYOUT. PANEL LAYOUT TO BE PROVIDED BY CLT MANUFACTURER.
2. FASTENERS TO BE STAGGERED ACROSS JOINT LINE, AS SHOWN.
3. APPROVED SPLINE FASTENERS ARE AS FOLLOWS:
    A. ASSY ECOFAST BY SWG
    B. STRONG-DIVE SDCP TIMBER-CP BY SIMPSON STRONG-TIE

CLT PANEL-TO-PANEL JOINT (PLYWOOD SPLINE)

N.T.S.


CLT ROOF PANEL (ROOFING MATERIALS NOT SHOWN)
$6\frac{7}{8}$"
T/WOOD FRAMING GLULAM BEAMS @ HEAD BLDG LOW ROOFS AND HIGH ROOF. ALSO APPLIED TO T/STL FRAMING AT CONNECTING LINK. SEE EACH PLAN FOR ELEVATION
TOP OF HEAD BLDG 2nd FLOOR CONC SLAB. SEE PLAN AND SECTIONS.
FLOOR FINISH, SEE ARCH
2" CONCRETE TOPPING (UNBONDED)
$\frac{3}{8}$" SOUND CONTROL MAT
CLT FLOOR PANEL
$6\frac{7}{8}$"
$9\frac{1}{4}$"
T/WOOD FRAMING GLULAM BEAMS @ HEAD BLDG 2nd FLR. SEE PLAN AND SECTIONS.

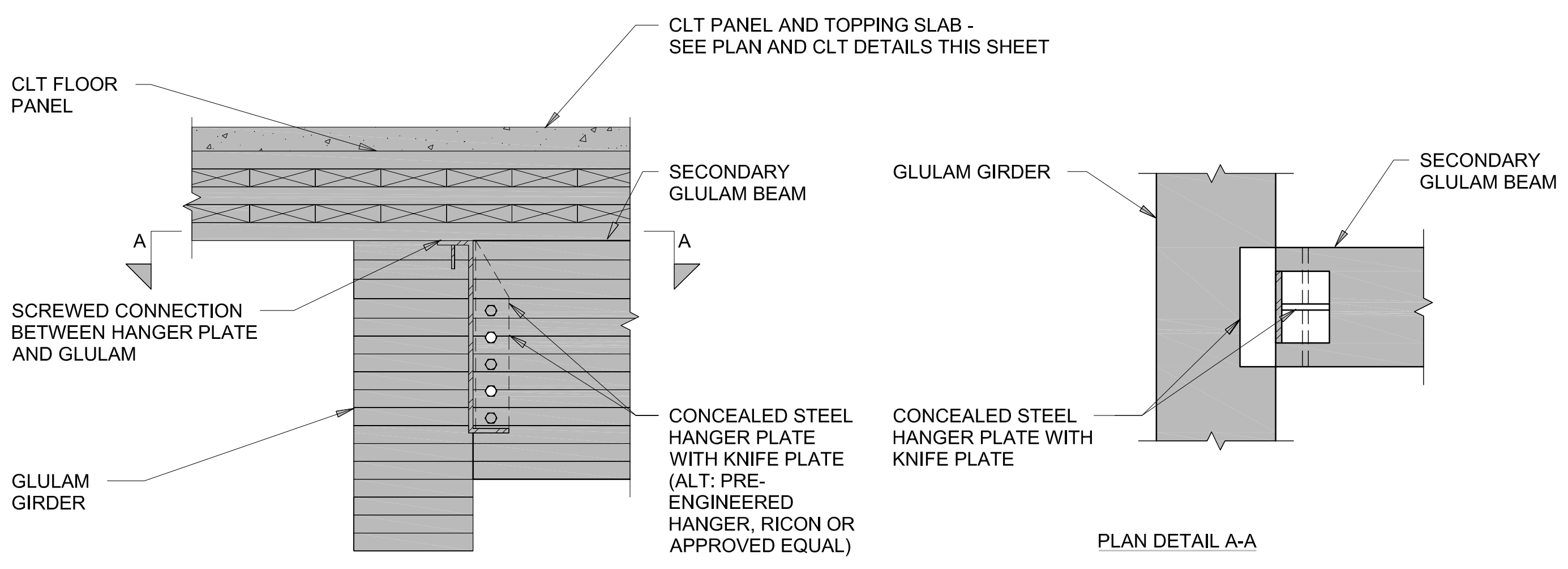
5-PLY CLT ROOF PANEL

5-PLY CLT FLOOR WITH TOPPING

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR TOPPING SLAB LAYOUT AND BALANCE OF INFORMATION AT FLOOR BUILD-UP

TYPICAL FLOOR AND ROOF BUILT-UP DETAILS

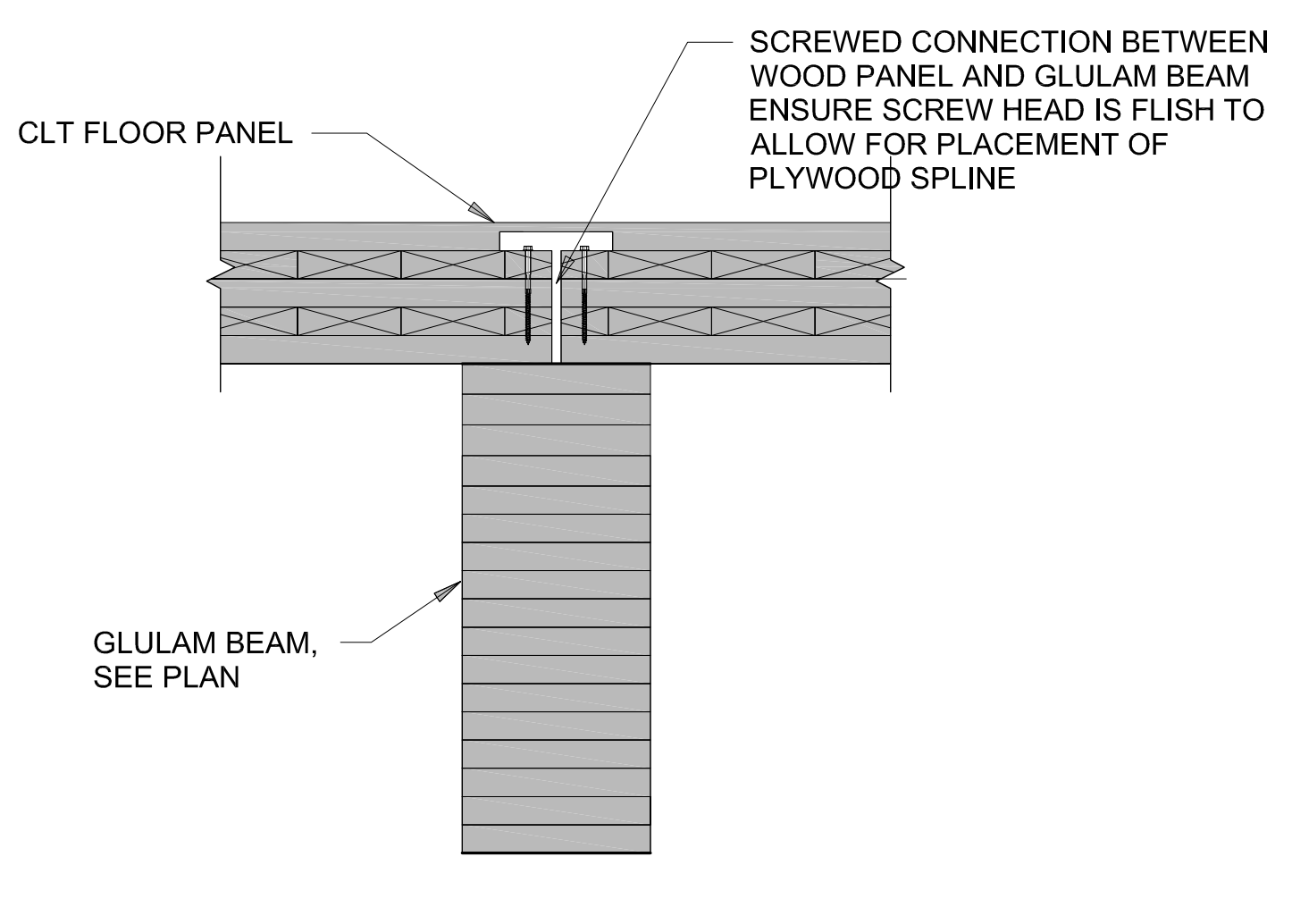
N.T.S.


CLT PANEL AND TOPPING SLAB - SEE PLAN AND CLT DETAILS THIS SHEET
CLT FLOOR PANEL
SECONDARY GLULAM BEAM
A
A
SCREWED CONNECTION BETWEEN HANGER PLATE AND GLULAM
GLULAM GIRDER
CONCEALED STEEL HANGER PLATE WITH KNIFE PLATE (ALT: PRE-ENGINEERED HANGER, RICON OR APPROVED EQUAL)
GLULAM GIRDER
SECONDARY GLULAM BEAM
CONCEALED STEEL HANGER PLATE WITH KNIFE PLATE

PLAN DETAIL A-A

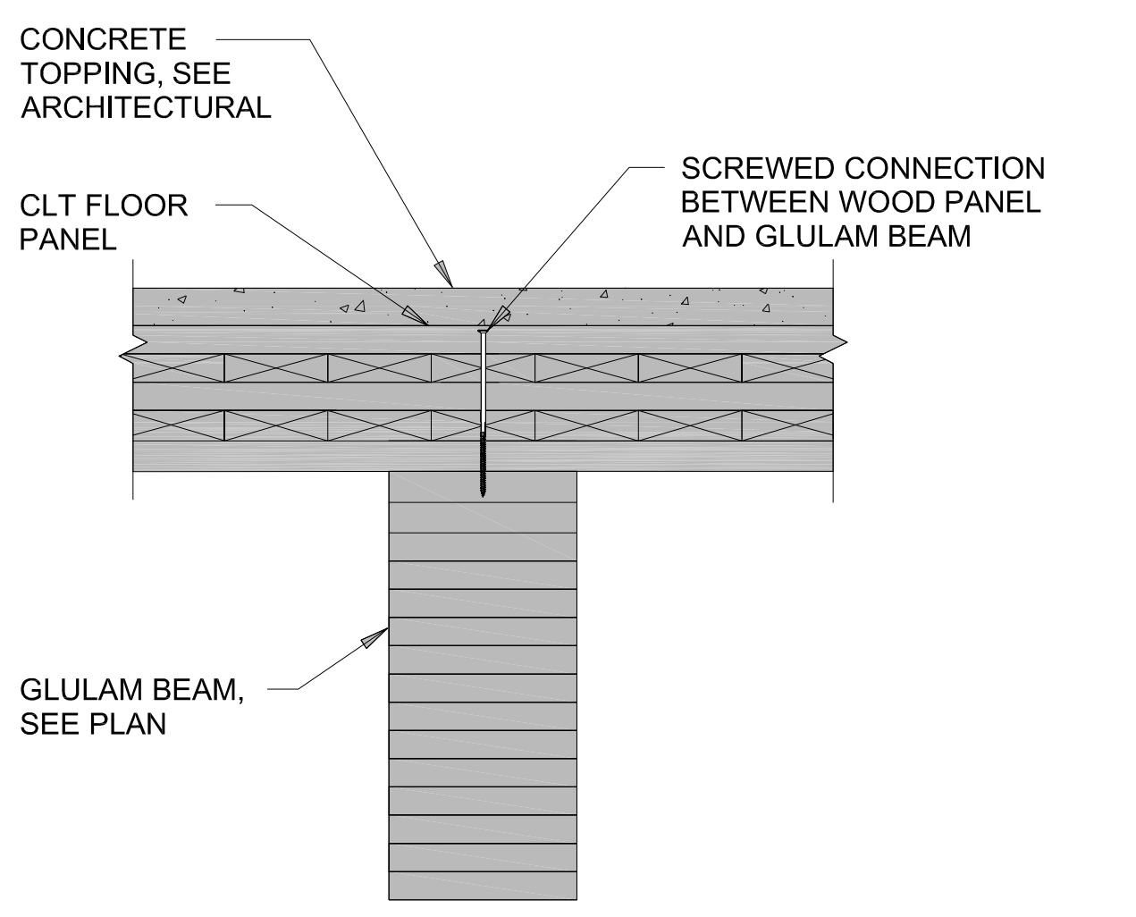
BEAM TO BEAM CONNECTION - CONCEALED HANGER PLATE

N.T.S.


SCREWED CONNECTION BETWEEN WOOD PANEL AND GLULAM BEAM ENSURE SCREW HEAD IS FLISH TO ALLOW FOR PLACEMENT OF PLYWOOD SPLINE
CLT FLOOR PANEL
GLULAM BEAM, SEE PLAN

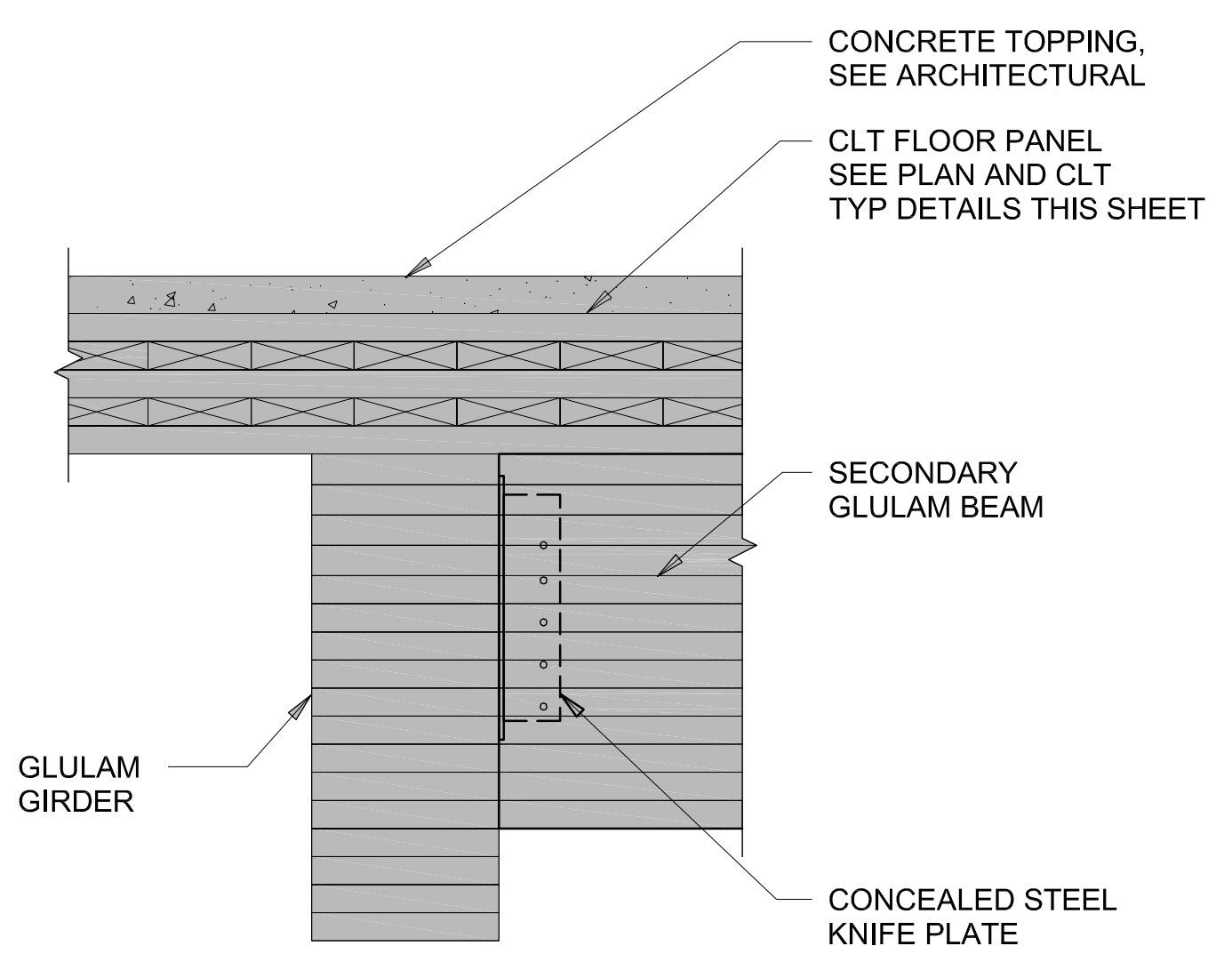
TYPICAL FLOOR PANEL TO BEAM CONNECTION AT PANEL JOINT - PANEL BEARING CONNECTION WITH SCREWS

N.T.S.


CONCRETE TOPPING, SEE ARCHITECTURAL
SCREWED CONNECTION BETWEEN WOOD PANEL AND GLULAM BEAM
CLT FLOOR PANEL
GLULAM BEAM, SEE PLAN

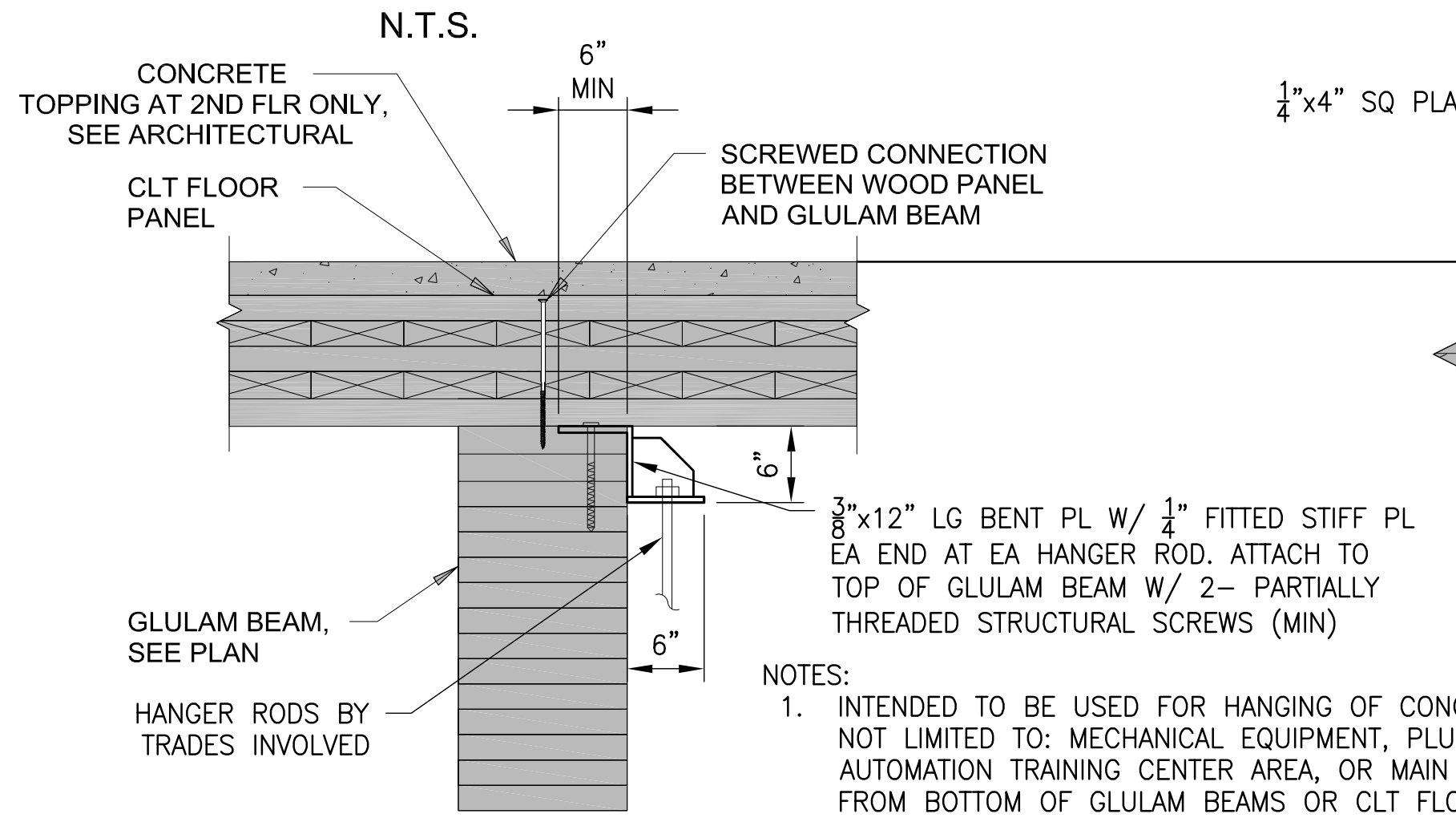
FLOOR PANEL TO BEAM CONNECTION - PANEL BEARING CONNECTION WITH SCREWS

N.T.S.


CONCRETE TOPPING, SEE ARCHITECTURAL
CLT FLOOR PANEL SEE PLAN AND CLT TYP DETAILS THIS SHEET
SECONDARY GLULAM BEAM
GLULAM GIRDER
CONCEALED STEEL KNIFE PLATE

BEAM TO BEAM CONNECTION - CONCEALED KNIFE PLATE

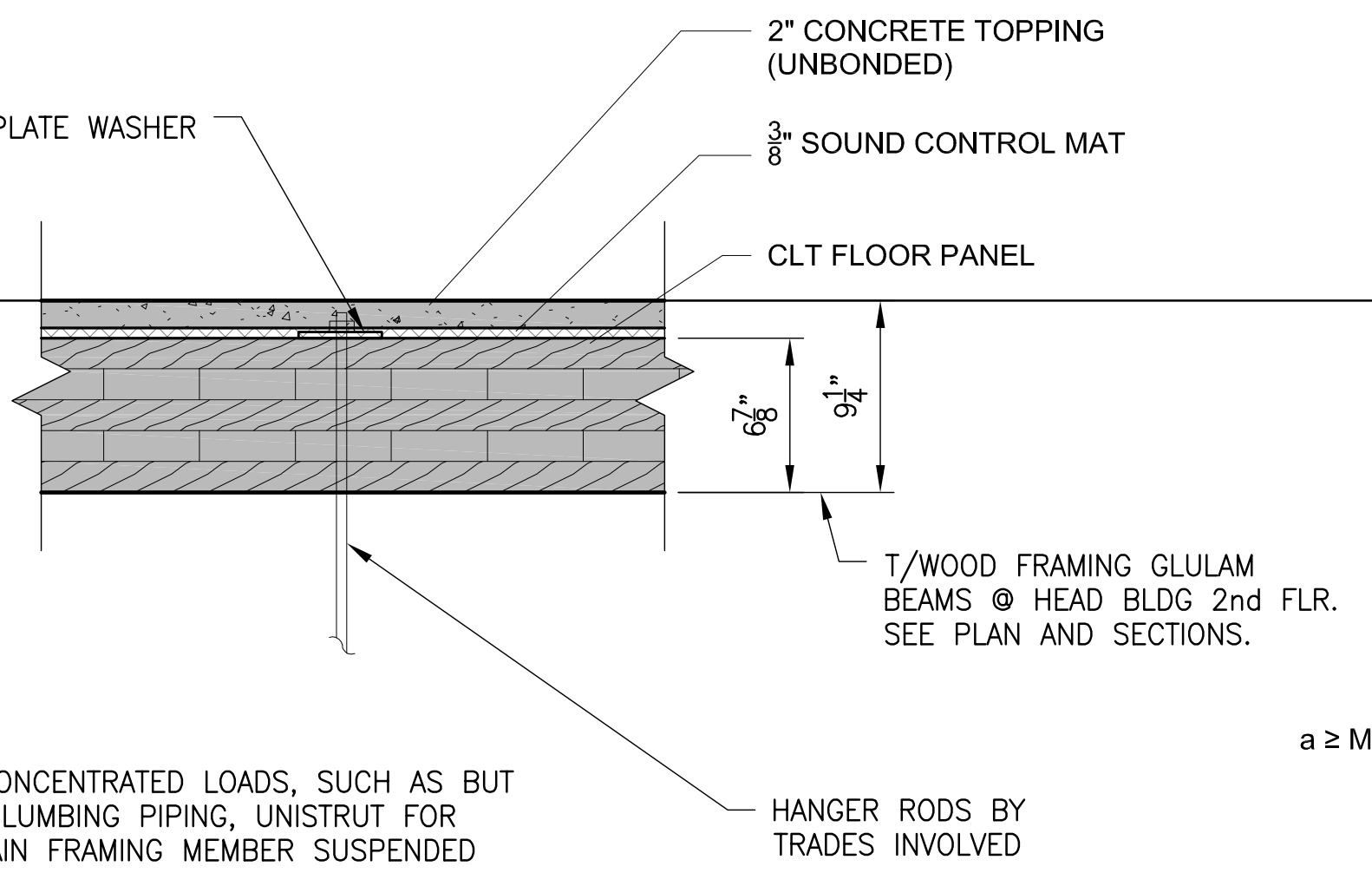
N.T.S.


CONCRETE TOPPING AT 2ND FLR ONLY, SEE ARCHITECTURAL
6" MIN
CLT FLOOR PANEL
SCREWED CONNECTION BETWEEN WOOD PANEL AND GLULAM BEAM
6"
GLULAM BEAM, SEE PLAN
HANGER RODS BY TRADES INVOLVED
6"
$\frac{3}{8}$"x12" LG BENT PL W/ $\frac{1}{4}$" FITTED STIFF PL EA END AT EA HANGER ROD. ATTACH TO TOP OF GLULAM BEAM W/ 2- PARTIALLY THREADED STRUCTURAL SCREWS (MIN)

NOTES:
1. INTENDED TO BE USED FOR HANGING OF CONCENTRATED LOADS, SUCH AS BUT NOT LIMITED TO: MECHANICAL EQUIPMENT, PLUMBING PIPING, UNISTRUT FOR AUTOMATION TRAINING CENTER AREA, OR MAIN FRAMING MEMBER SUSPENDED FROM BOTTOM OF GLULAM BEAMS OR CLT FLOOR DECK.
2. DO NOT SUPPORT THESE TYPES OF CONCENTRATED LOADS FROM THE BOTTOM OF GLULAM BEAMS.

CONCENTRATED LOADS SUSPENDED FROM GLULAM BEAM

N.T.S.


2" CONCRETE TOPPING (UNBONDED)
$\frac{1}{4}$"x4" SQ PLATE WASHER
$\frac{3}{8}$" SOUND CONTROL MAT
CLT FLOOR PANEL
$6\frac{7}{8}$"
$9\frac{1}{4}$"
T/WOOD FRAMING GLULAM BEAMS @ HEAD BLDG 2nd FLR. SEE PLAN AND SECTIONS.
HANGER RODS BY TRADES INVOLVED

CONCENTRATED LOADS SUSPENDED FROM CLT FLOOR DECK

N.T.S.

GLUED LAMINATED TIMBER (GLULAM) CONNECTION NOTES:

1. GENERAL PERFORMANCE REQUIREMENTS – CONNECTIONS

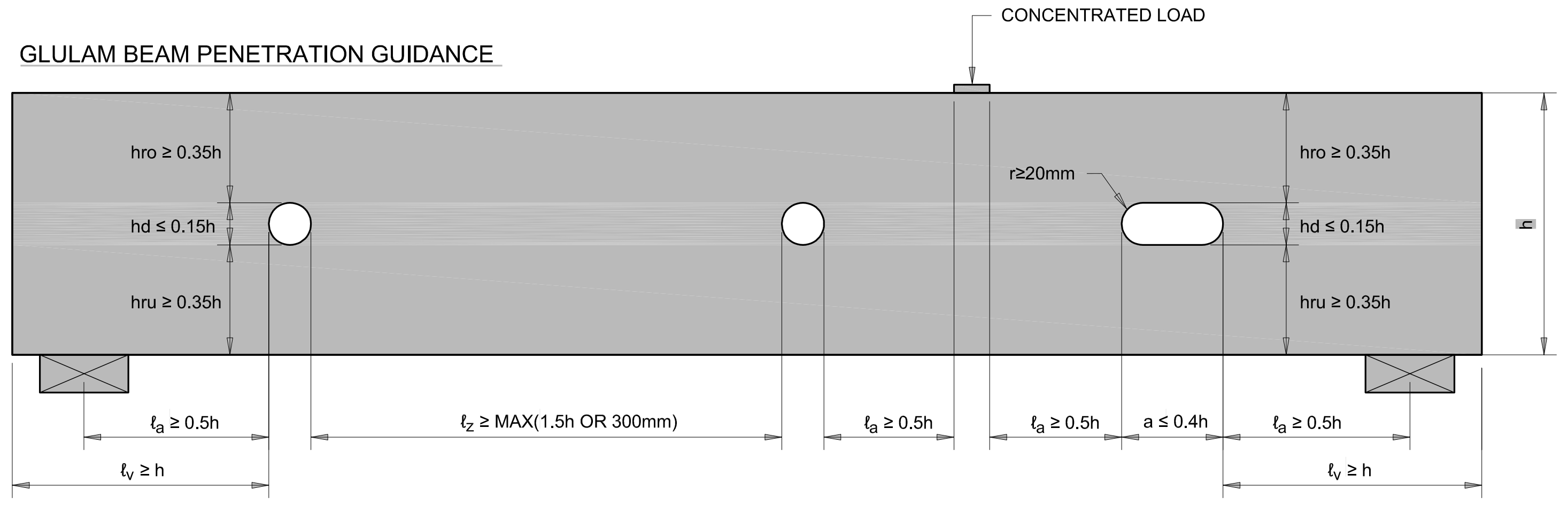
   TO THE GREATEST EXTENT PRACTICAL, THE FINAL CONNECTIONS SHALL BE MADE WITH STEEL HARDWARE UTILIZING EXPOSED CONNECTIONS.

   a. CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK RETAINED BY THE TIMER FABRICATOR AND EXPERIENCED IN THE DESIGN OF MASS TIMBER CONNECTIONS. DRAWINGS AND CALCULATIONS OF COMPONENTS DESIGNED BY THE TIMBER FABRICATOR SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK. UNLESS OTHERWISE NOTED ON PLAN, PROVIDE CONNECTIONS BASED ON THE MINIMUM SHEAR CAPACITY REQUIREMENTS IN THE TABLE ON EACH FLOOR PLAN.

   b. THE INFORMATION SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS ARE INTENDED TO REPRESENT "TYPICAL DETAILS", INCLUDING THE MINIMUM MEMBERS SIZES AND BASIC REQUIREMENTS FOR THE GLUED LAMINATED TIMBER (GLULAM) MEMBERS. THE MORE STRINGENT OF THE REQUIREMENTS FROM THE DELEGATED STRUCTURAL ENGINEERING PERFORMANCE DESIGN CALCULATIONS, THE ASSOCIATED ENGINEERED SHOP DRAWING DETAILS AND THE MINIMUM REQUIREMENTS SHOWN WITHIN THE CONTRACT DOCUMENTS SHALL APPLY.

   c. REFER TO THE GLUED LAMINATED TIMBER (GLULAM) NOTES ON DRAWING S-904 AND SPECIFICATION SECTION 06 18 00 "STRUCTURAL GLUED-LAMINATED TIMBER & CROSS-LAMINATED TIMBER (CLT) PANEL CONSTRUCTION" FOR ADDITIONAL INFORMATION.

GLULAM BEAM PENETRATION GUIDANCE

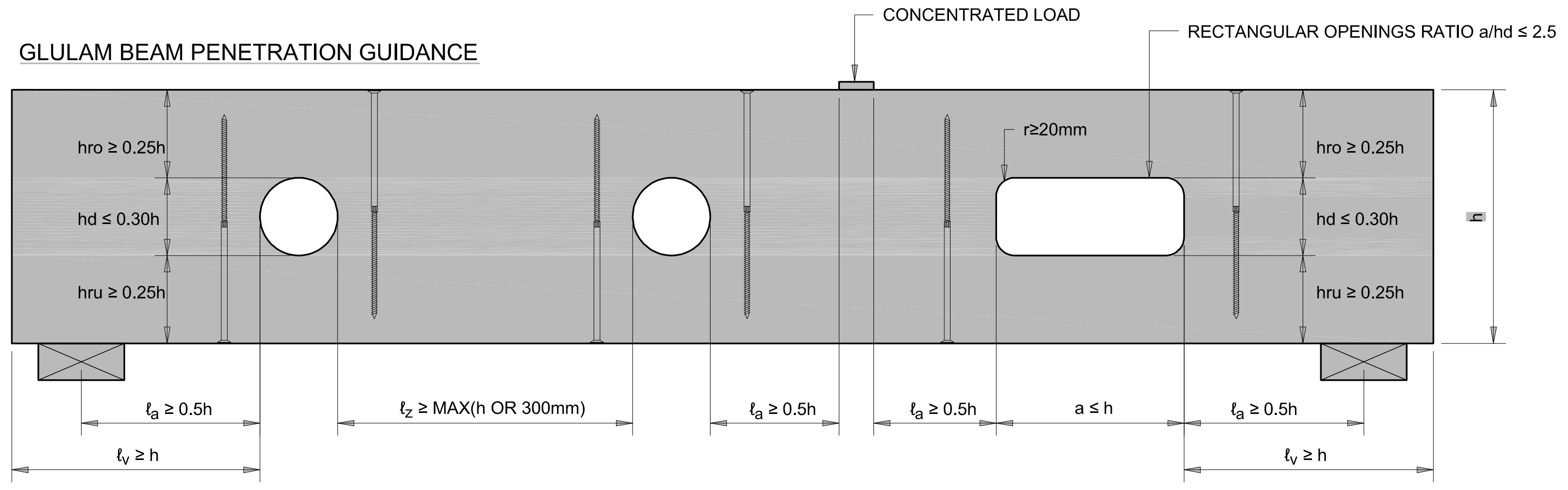

CONCENTRATED LOAD
hro ≥ 0.35h
hd ≤ 0.15h
hru ≥ 0.35h
r≥20mm
hro ≥ 0.35h
hd ≤ 0.15h
hru ≥ 0.35h
h
$\ell_a \geq 0.5h$
$\ell_z \geq$ MAX(1.5h OR 300mm)
$\ell_a \geq 0.5h$
$\ell_a \geq 0.5h$
a ≤ 0.4h
$\ell_a \geq 0.5h$
$\ell_v \geq h$
$\ell_v \geq h$

NOTES:
1. THIS DETAIL IS PROVIDED AS A GENERAL GUIDANCE TO THE CONTRACTOR FOR PENETRATIONS THROUGH GLULAM BEAMS AND GIRDERS. HOWEVER, EACH MANUFACTURE MAY HAVE THEIR OWN REQUIREMENTS AND GUIDANCE THAT TAKES PRECEDENCE OVER THIS DETAIL. PRIOR TO CUTTING ANY OPENINGS, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE MEMBER / PRODUCT REQUIREMENTS.
2. SHEAR RESISTANCE AT REDUCED SECTION, BENDING STRESS RESISTANCE ABOVE AND BELOW OPENING AND SPLITTING RESISTANCE MUST BE VERIFIED.
3. OPENING SIZE: THE OPENING HEIGHT SHOULD NOT EXCEED 0.15h, WHERE h IS THE BEAM DEPTH. FOR RECTANGULAR OPENINGS, THE OPENING WIDTH SHOULD NOT EXCEED 0.4h
4. OPENING LOCATION: THE OPENING SHOULD HAVE A MINIMUM CLEAR DISTANCE, AS MEASURED FROM THE EDGE OF THE OPENING, OF 0.35h TO THE TOP OR BOTTOM FACE OF THE BEAM, h TO THE END OF THE BEAM AND 0.5h TO THE CENTER OF SUPPORT. IF THERE IS A CONCENTRATED LOAD, THE OPENING SHOULD HAVE A MINIMUM CLEAR DISTANCE OF 0.5h, AS MEASURED FROM THE EDGE OF THE OPENING TO THE NEAREST EDGE OF THE LOAD.
5. OPENING SPACING: THE MINIMUM CLEAR DISTANCE BETWEEN ANY ADJACENT OPENINGS SHOULD BE 1.5h OR 300mm, WHICHEVER IS LARGER.
6. SEE ARCH DWG A-870 FOR ADDITIONAL INFORMATION.

GLULAM BEAM PENETRATIONS WITHOUT REINFORCEMENT

N.T.S.

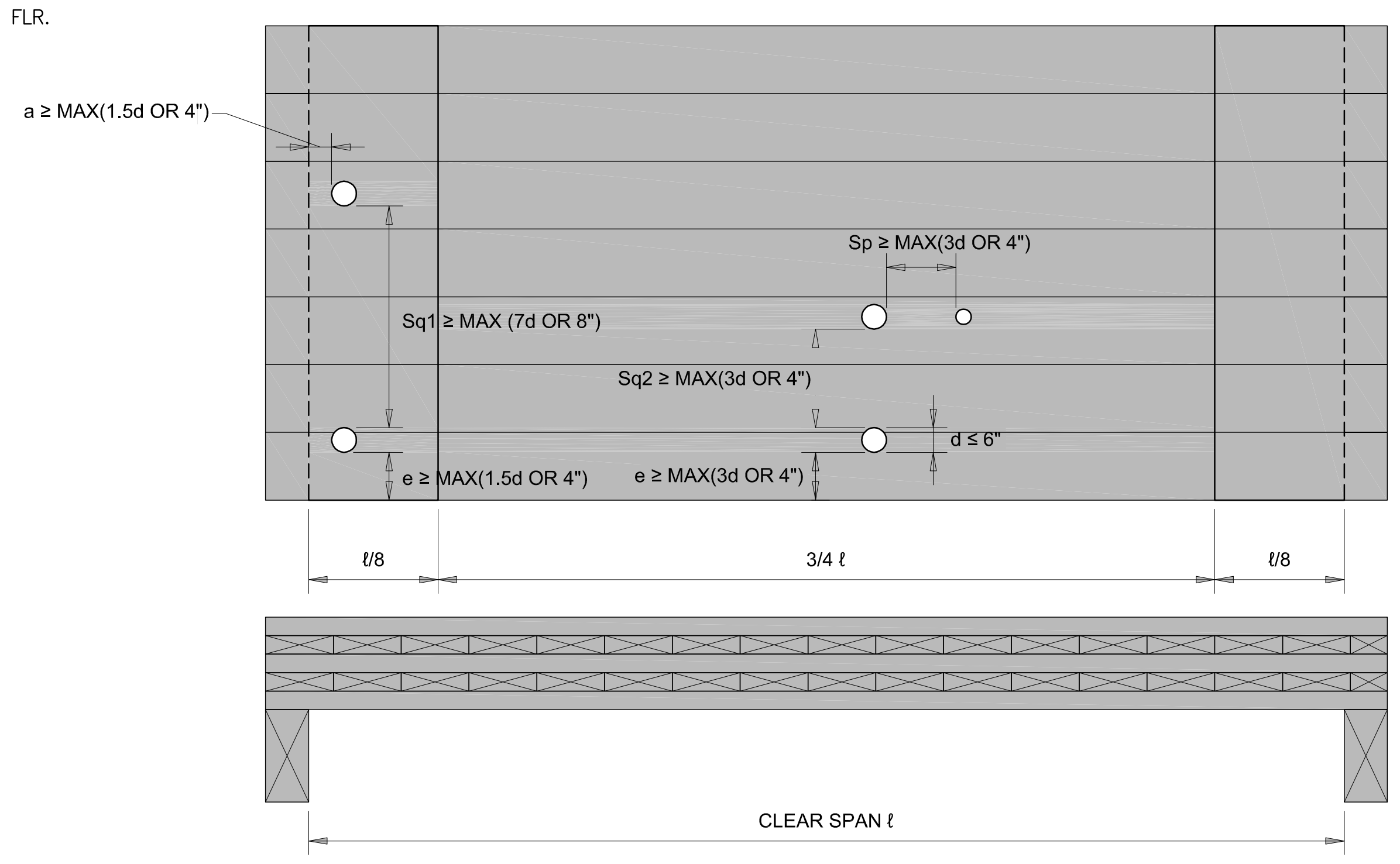
GLULAM BEAM PENETRATION GUIDANCE


CONCENTRATED LOAD
RECTANGULAR OPENINGS RATIO a/hd ≤ 2.5
hro ≥ 0.25h
hd ≤ 0.30h
hru ≥ 0.25h
r≥20mm
hro ≥ 0.25h
hd ≤ 0.30h
hru ≥ 0.25h
h
$\ell_a \geq 0.5h$
$\ell_z \geq$ MAX(h OR 300mm)
$\ell_a \geq 0.5h$
$\ell_a \geq 0.5h$
a ≤ h
$\ell_a \geq 0.5h$
$\ell_v \geq h$
$\ell_v \geq h$

NOTES:
1. THIS DETAIL IS PROVIDED AS A GENERAL GUIDANCE TO THE CONTRACTOR FOR PENETRATIONS THROUGH GLULAM BEAMS AND GIRDERS. HOWEVER, EACH MANUFACTURE MAY HAVE THEIR OWN REQUIREMENTS AND GUIDANCE THAT TAKES PRECEDENCE OVER THIS DETAIL. PRIOR TO CUTTING ANY OPENINGS, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE MEMBER / PRODUCT REQUIREMENTS.
2. SHEAR RESISTANCE AT REDUCED SECTION, BENDING STRESS RESISTANCE ABOVE AND BELOW OPENING MUST BE VERIFIED. SCREW REINFORCEMENT PREVENTING WOOD SPLITTING MUST BE DESIGNED BY A QUALIFIED MASS TIMBER DESIGN ENGINEER. MINIMUM ONE SCREW IS REQUIRED ON EACH SIDE OF OPENING.
3. OPENING SIZE: THE OPENING HEIGHT SHOULD NOT EXCEED 0.3h, WHERE h IS THE BEAM DEPTH. FOR RECTANGULAR OPENINGS, THE OPENING WIDTH SHOULD NOT EXCEED h.
4. OPENING LOCATION: THE OPENING SHOULD HAVE A MINIMUM CLEAR DISTANCE, AS MEASURED FROM THE EDGE OF THE OPENING, OF 0.25h TO THE TOP OR BOTTOM FACE OF THE BEAM, h TO THE END OF THE BEAM AND 0.5h TO THE CENTER OF SUPPORT. IF THERE IS A CONCENTRATED LOAD, THE OPENING SHOULD HAVE A MINIMUM CLEAR DISTANCE OF 0.5h, AS MEASURED FROM THE EDGE OF THE OPENING TO THE NEAREST EDGE OF THE LOAD.
5. OPENING SPACING: THE MINIMUM CLEAR DISTANCE BETWEEN ANY ADJACENT OPENINGS SHOULD BE h OR 300 mm, WHICHEVER IS LARGER.

GLULAM BEAM PENETRATIONS WITH REINFORCEMENT

N.T.S.


a ≥ MAX(1.5d OR 4")
Sp ≥ MAX(3d OR 4")
Sq1 ≥ MAX (7d OR 8")
Sq2 ≥ MAX(3d OR 4")
d ≤ 6"
e ≥ MAX(1.5d OR 4")
e ≥ MAX(3d OR 4")
ℓ/8
3/4 ℓ
ℓ/8
CLEAR SPAN ℓ

NOTES:
1. THIS DETAIL IS PROVIDED AS A GENERAL GUIDANCE TO THE CONTRACTOR FOR PENETRATIONS THROUGH CLT PANELS. HOWEVER, EACH MANUFACTURE MAY HAVE THEIR OWN REQUIREMENTS AND GUIDANCE THAT TAKES PRECEDENCE OVER THIS DETAIL. PRIOR TO CUTTING ANY OPENINGS, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE MEMBER / PRODUCT REQUIREMENTS.
2. HOLE SIZE: THE HOLE SHOULD BE ROUND AND THE HOLE DIAMETER (d) SHOULD NOT EXCEED 6".
3. DISTANCE FROM THE SUPPORT (a): THE HOLE SHOULD HAVE A MINIMUM CLEAR DISTANCE, AS MEASURED FROM THE EDGE TO THE NEAREST INSIDE FACE OF THE PANEL, OF 1.5 HOLE DIAMETER (d) OR 4", WHICHEVER IS LARGER.
4. EDGE DISTANCE (e): THE HOLE SHOULD HAVE A MINIMUM CLEAR DISTANCE, AS MEASURED FROM THE EDGE OF THE HOLE TO THE NEAREST EDGE OF THE PANEL, OF 1.5 HOLE DIAMETER (d) OR 4", WHICHEVER IS LARGER.
5. LONGITUDINAL SPACING (Sp): THE MINIMUM CLEAR DISTANCE PARALLEL TO GRAIN BETWEEN ADJACENT HOLE EDGES SHALL EXCEED 3 TIMES THE DIAMETER OF THE LARGEST ADJACENT HOLE OR 4", WHICHEVER IS LARGER.
6. TRANSVERSE SPACING, IN A ZONE OF 1/8 OF THE SPAN FROM THE SUPPORT (Sq): THE MINIMUM CLEAR DISTANCE PERPENDICULAR TO GRAIN BETWEEN ADJACENT HOLE EDGES SHALL EXCEED 7 TIMES THE DIAMETER OF THE LARGEST ADJACENT HOLE OR 8", WHICHEVER IS LARGER.
7. TRANSVERSE SPACING, IN THE MIDDLE 3/4 OF THE SPAN (Sq): THE MINIMUM CLEAR DISTANCE PERPENDICULAR TO GRAIN BETWEEN ADJACENT HOLE EDGES SHALL EXCEED 3 TIMES THE DIAMETER OF THE LARGEST ADJACENT HOLE OR 4", WHICHEVER IS LARGER.
8. IF THESE REQUIREMENTS CANNOT BE MET, DRILLING OF HOLES MUST BE REVIEWED BY E.O.R.
9. ALLOWABLE PENETRATIONS SHOWN ARE APPLICABLE TO SIMPLE AND MULTIPLE SPAN SLABS WITH UNIFORMLY DISTRIBUTED LOADS ONLY.

CLT PANEL - ALLOWABLE OPENINGS

N.T.S.

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Expiration Date: 11/30/2027

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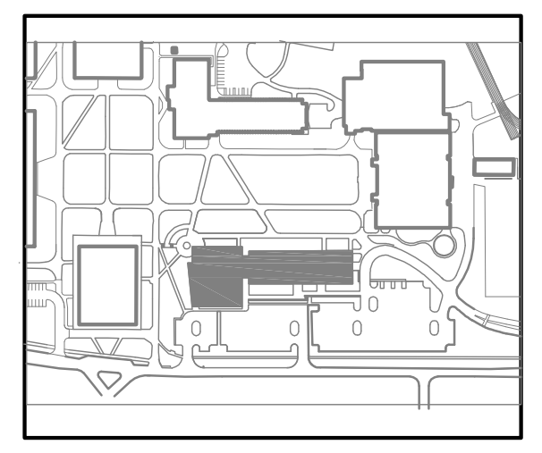


PROJECT:

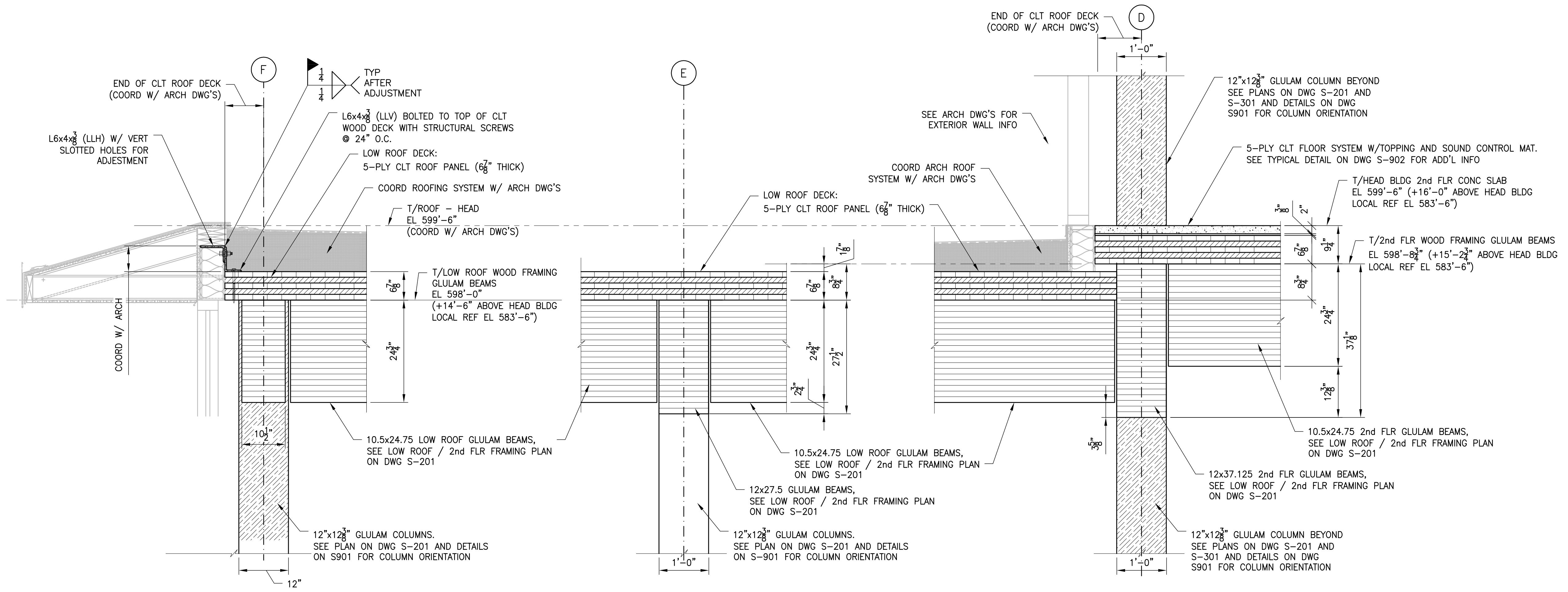
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HEAD BUILDING – WOOD FRAMING SECTIONS AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

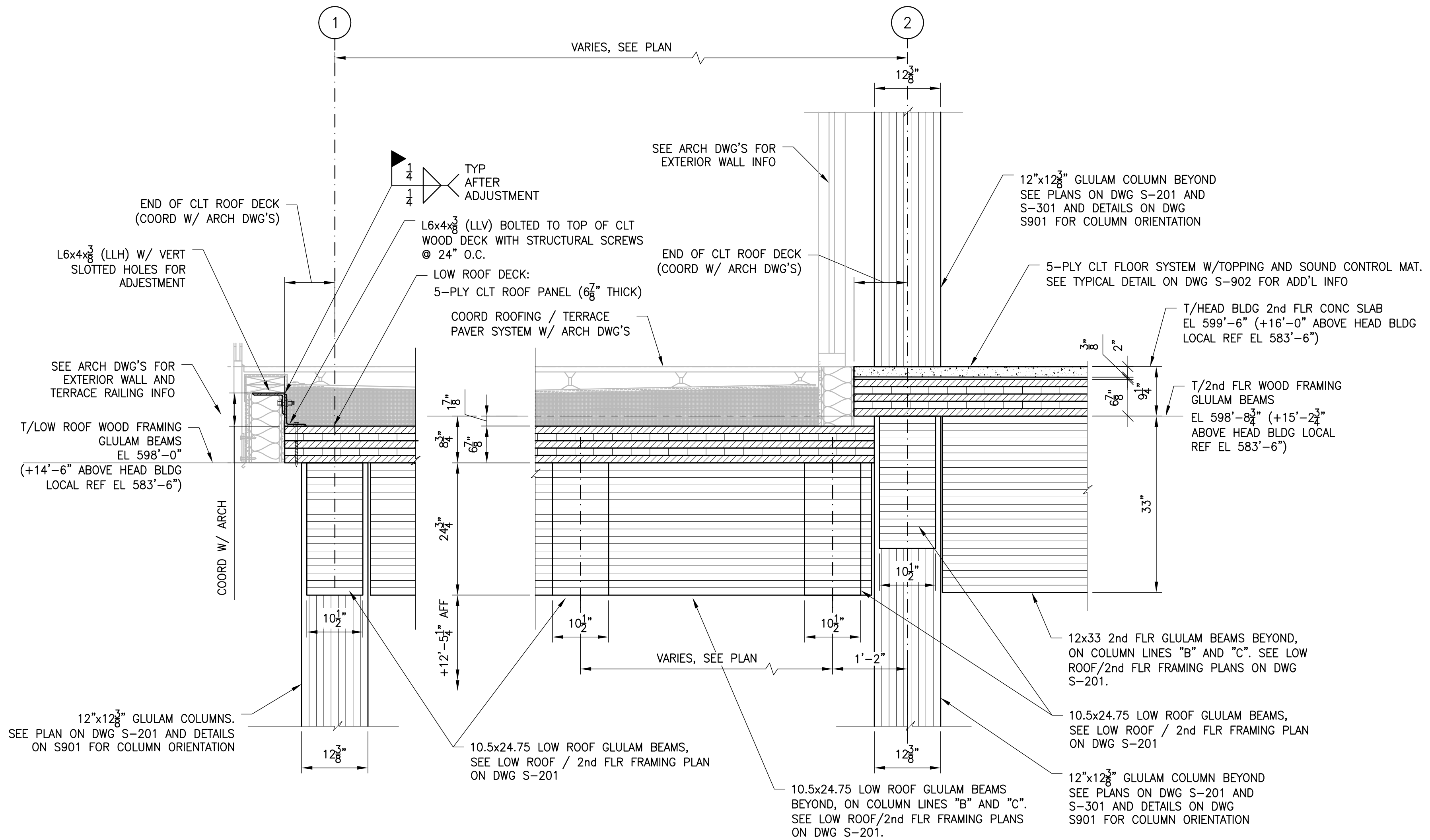
S-902


END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
L6x4x$\frac{3}{8}$ (LLH) W/ VERT SLOTTED HOLES FOR ADJESTMENT
F
$\frac{1}{4}$ TYP AFTER ADJUSTMENT
L6x4x$\frac{3}{8}$ (LLV) BOLTED TO TOP OF CLT WOOD DECK WITH STRUCTURAL SCREWS @ 24" O.C.
LOW ROOF DECK: 5-PLY CLT ROOF PANEL ($6\frac{7}{8}$" THICK)
COORD ROOFING SYSTEM W/ ARCH DWG'S
T/ROOF – HEAD EL 599'-6" (COORD W/ ARCH DWG'S)
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
COORD W/ ARCH
$10\frac{1}{2}$"
12"
10.5x24.75 LOW ROOF GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12"x$12\frac{3}{8}$" GLULAM COLUMNS. SEE PLAN ON DWG S-201 AND DETAILS ON S901 FOR COLUMN ORIENTATION
E
LOW ROOF DECK: 5-PLY CLT ROOF PANEL ($6\frac{7}{8}$" THICK)
10.5x24.75 LOW ROOF GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12x27.5 GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12"x$12\frac{3}{8}$" GLULAM COLUMNS. SEE PLAN ON DWG S-201 AND DETAILS ON S-901 FOR COLUMN ORIENTATION
1'-0"
COORD ARCH ROOF SYSTEM W/ ARCH DWG'S
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
D
12"x$12\frac{3}{8}$" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION
5-PLY CLT FLOOR SYSTEM W/TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S-902 FOR ADD'L INFO
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-$8\frac{3}{4}$" (+15'-$2\frac{3}{4}$" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x24.75 2nd FLR GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12x37.125 2nd FLR GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12"x$12\frac{3}{8}$" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION
1'-0"

LOW ROOF / SECOND FLOOR – EXTERIOR WALL SECTIONS

NOTES:
1. SEE DRAWING S-902 FOR TYPICAL WOOD FRAMING SECTIONS AND DETAILS FOR ADD'L INFO, INCLUDING MEMBER TO MEMBER CONNECTIONS (NOT SHOWN)

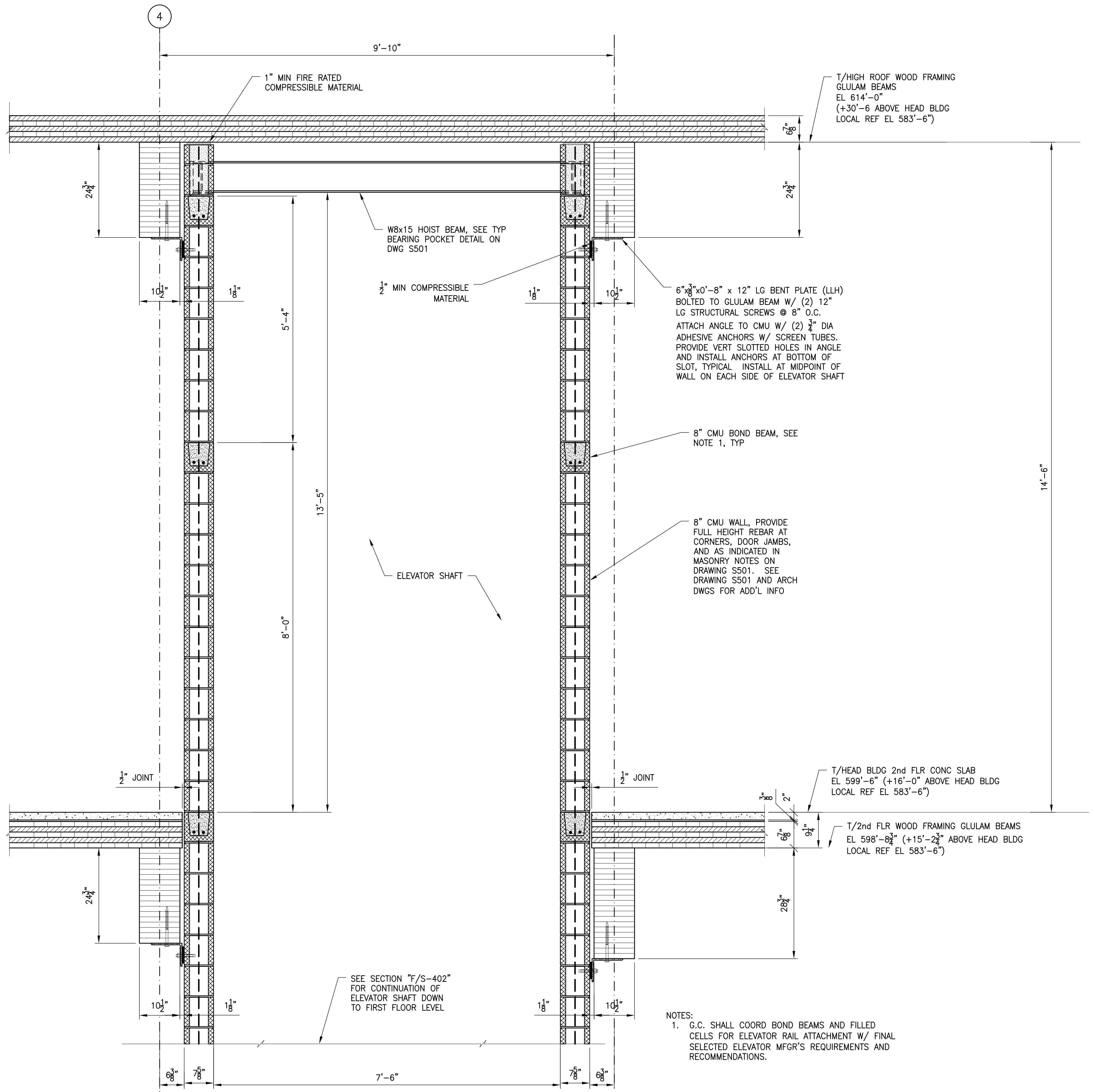
A SECTION – HEAD BLDG
S-903 3/4"=1'-0"


1
2
VARIES, SEE PLAN
$12\frac{3}{8}$"
$\frac{1}{4}$ TYP AFTER ADJUSTMENT
END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
L6x4x$\frac{3}{8}$ (LLH) W/ VERT SLOTTED HOLES FOR ADJESTMENT
L6x4x$\frac{3}{8}$ (LLV) BOLTED TO TOP OF CLT WOOD DECK WITH STRUCTURAL SCREWS @ 24" O.C.
LOW ROOF DECK: 5-PLY CLT ROOF PANEL ($6\frac{7}{8}$" THICK)
COORD ROOFING / TERRACE PAVER SYSTEM W/ ARCH DWG'S
SEE ARCH DWG'S FOR EXTERIOR WALL AND TERRACE RAILING INFO
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
COORD W/ ARCH
+12'-$5\frac{1}{4}$" AFF
12"x$12\frac{3}{8}$" GLULAM COLUMNS. SEE PLAN ON DWG S-201 AND DETAILS ON S901 FOR COLUMN ORIENTATION
10.5x24.75 LOW ROOF GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
VARIES, SEE PLAN
1'-2"
10.5x24.75 LOW ROOF GLULAM BEAMS BEYOND, ON COLUMN LINES "B" AND "C". SEE LOW ROOF/2nd FLR FRAMING PLANS ON DWG S-201.
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
END OF CLT ROOF DECK (COORD W/ ARCH DWG'S)
12"x$12\frac{3}{8}$" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION
5-PLY CLT FLOOR SYSTEM W/TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S-902 FOR ADD'L INFO
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-$8\frac{3}{4}$" (+15'-$2\frac{3}{4}$" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
33"
12x33 2nd FLR GLULAM BEAMS BEYOND, ON COLUMN LINES "B" AND "C". SEE LOW ROOF/2nd FLR FRAMING PLANS ON DWG S-201.
10.5x24.75 LOW ROOF GLULAM BEAMS, SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S-201
12"x$12\frac{3}{8}$" GLULAM COLUMN BEYOND SEE PLANS ON DWG S-201 AND S-301 AND DETAILS ON DWG S901 FOR COLUMN ORIENTATION

LOW ROOF / SECOND FLOOR – EXTERIOR WALL SECTIONS
AT TERRACE

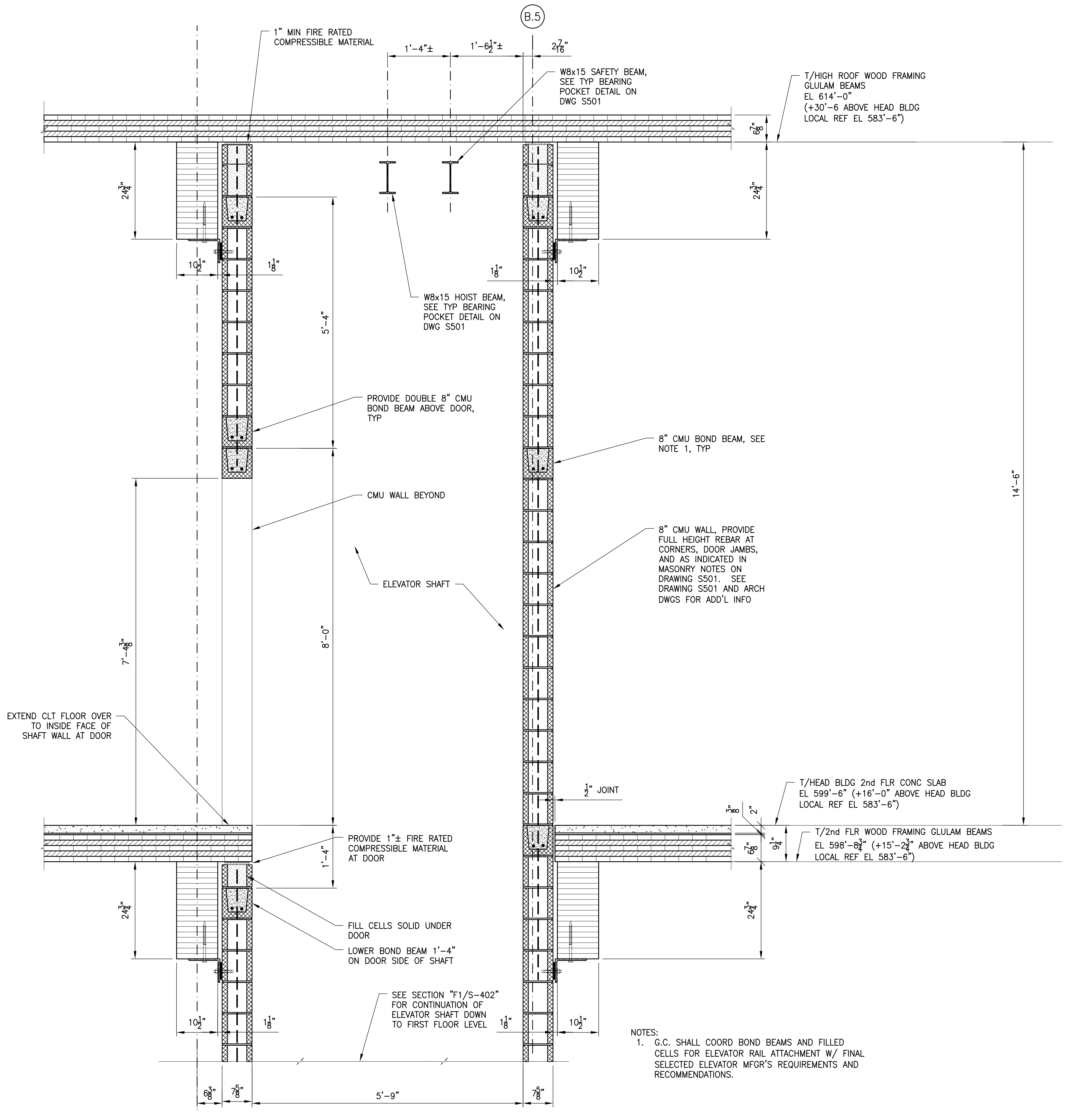
NOTES:
1. SEE DRAWING S-902 FOR TYPICAL WOOD FRAMING SECTIONS AND DETAILS FOR ADD'L INFO, INCLUDING MEMBER TO MEMBER CONNECTIONS (NOT SHOWN)

B SECTION – HEAD BLDG
S-903 3/4"=1'-0"


4
9'-10"
1" MIN FIRE RATED COMPRESSIBLE MATERIAL
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
W8x15 HOIST BEAM, SEE TYP BEARING POCKET DETAIL ON DWG S501
$\frac{1}{2}$" MIN COMPRESSIBLE MATERIAL
6"x$\frac{3}{8}$"x0'-8" x 12" LG BENT PLATE (LLH) BOLTED TO GLULAM BEAM W/ (2) 12" LG STRUCTURAL SCREWS @ 8" O.C. ATTACH ANGLE TO CMU W/ (2) $\frac{3}{4}$" DIA ADHESIVE ANCHORS W/ SCREEN TUBES. PROVIDE VERT SLOTTED HOLES IN ANGLE AND INSTALL ANCHORS AT BOTTOM OF SLOT, TYPICAL INSTALL AT MIDPOINT OF WALL ON EACH SIDE OF ELEVATOR SHAFT
8" CMU BOND BEAM, SEE NOTE 1, TYP
8" CMU WALL, PROVIDE FULL HEIGHT REBAR AT CORNERS, DOOR JAMBS, AND AS INDICATED IN MASONRY NOTES ON DRAWING S501. SEE DRAWING S501 AND ARCH DWGS FOR ADD'L INFO
ELEVATOR SHAFT
5'-4"
13'-5"
8'-0"
14'-6"
$\frac{1}{2}$" JOINT
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-$8\frac{3}{4}$" (+15'-$2\frac{3}{4}$" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
SEE SECTION "F/S-402" FOR CONTINUATION OF ELEVATOR SHAFT DOWN TO FIRST FLOOR LEVEL
7'-6"

NOTES:
1. G.C. SHALL COORD BOND BEAMS AND FILLED CELLS FOR ELEVATOR RAIL ATTACHMENT W/ FINAL SELECTED ELEVATOR MFGR'S REQUIREMENTS AND RECOMMENDATIONS.

C SECTION – HEAD BLDG
S-903 3/4"=1'-0"


B.5
1" MIN FIRE RATED COMPRESSIBLE MATERIAL
1'-4"±
1'-$6\frac{1}{2}$"±
$2\frac{7}{16}$"
W8x15 SAFETY BEAM, SEE TYP BEARING POCKET DETAIL ON DWG S501
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
W8x15 HOIST BEAM, SEE TYP BEARING POCKET DETAIL ON DWG S501
PROVIDE DOUBLE 8" CMU BOND BEAM ABOVE DOOR, TYP
8" CMU BOND BEAM, SEE NOTE 1, TYP
CMU WALL BEYOND
8" CMU WALL, PROVIDE FULL HEIGHT REBAR AT CORNERS, DOOR JAMBS, AND AS INDICATED IN MASONRY NOTES ON DRAWING S501. SEE DRAWING S501 AND ARCH DWGS FOR ADD'L INFO
ELEVATOR SHAFT
14'-6"
EXTEND CLT FLOOR OVER TO INSIDE FACE OF SHAFT WALL AT DOOR
$\frac{1}{2}$" JOINT
T/HEAD BLDG 2nd FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
T/2nd FLR WOOD FRAMING GLULAM BEAMS EL 598'-$8\frac{3}{4}$" (+15'-$2\frac{3}{4}$" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
PROVIDE 1"± FIRE RATED COMPRESSIBLE MATERIAL AT DOOR
FILL CELLS SOLID UNDER DOOR
LOWER BOND BEAM 1'-4" ON DOOR SIDE OF SHAFT
SEE SECTION "F1/S-402" FOR CONTINUATION OF ELEVATOR SHAFT DOWN TO FIRST FLOOR LEVEL
5'-9"

NOTES:
1. G.C. SHALL COORD BOND BEAMS AND FILLED CELLS FOR ELEVATOR RAIL ATTACHMENT W/ FINAL SELECTED ELEVATOR MFGR'S REQUIREMENTS AND RECOMMENDATIONS.

D SECTION – HEAD BLDG
S-903 3/4"=1'-0"

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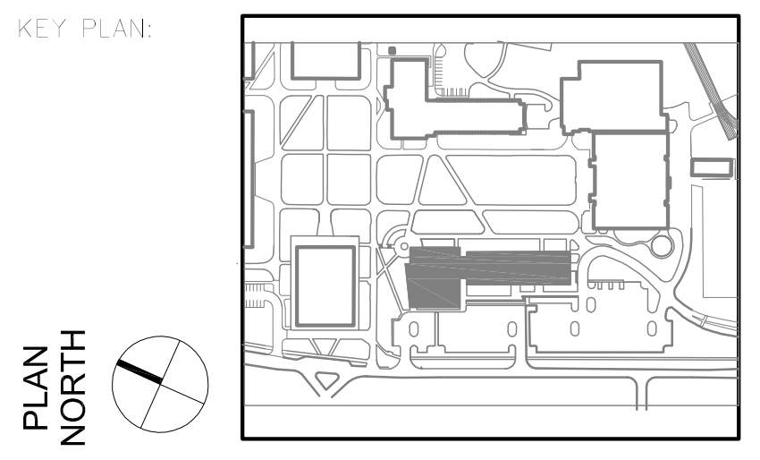
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

KEY PLAN:

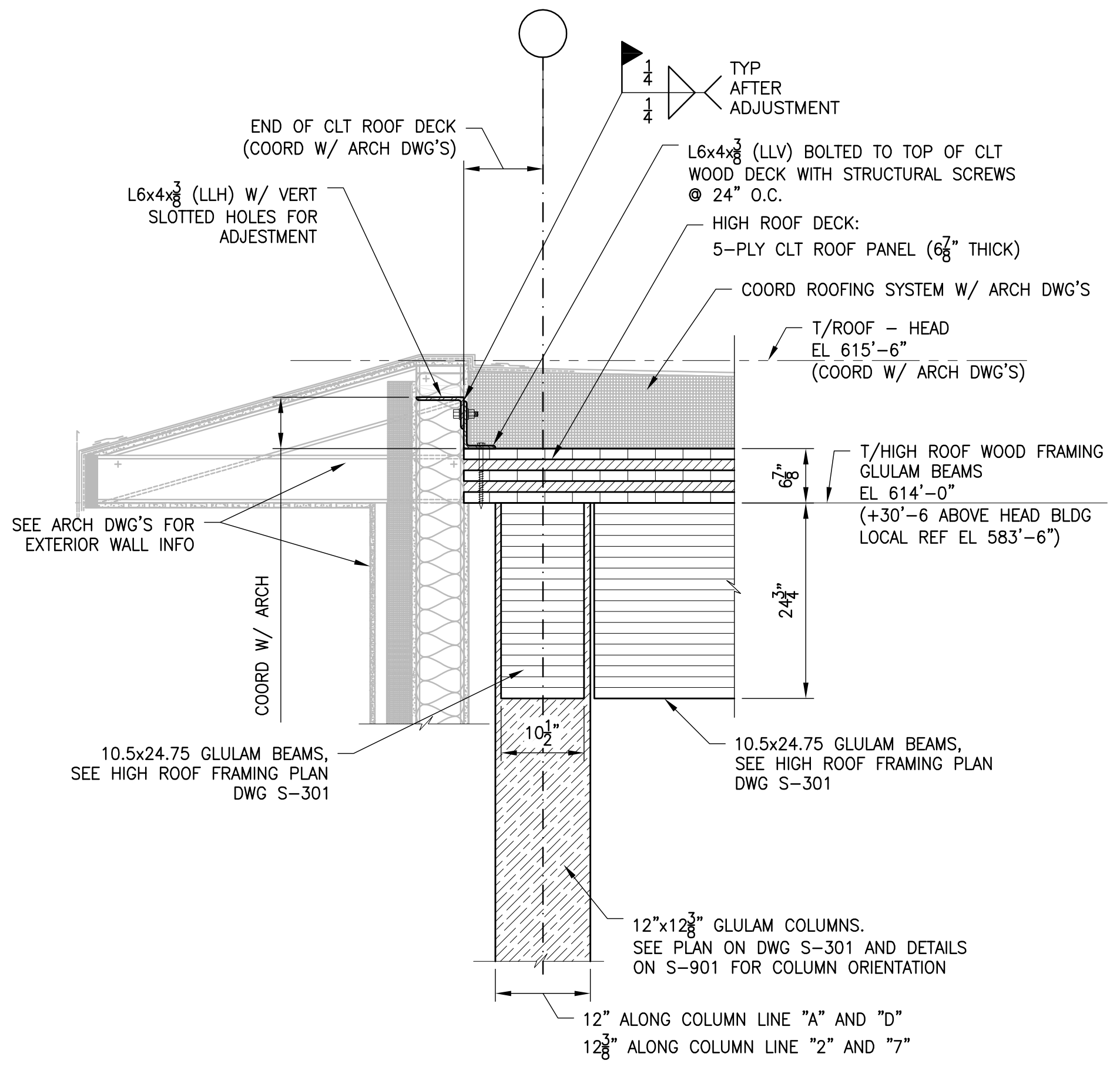


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
HEAD BUILDING – WOOD FRAMING SECTIONS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

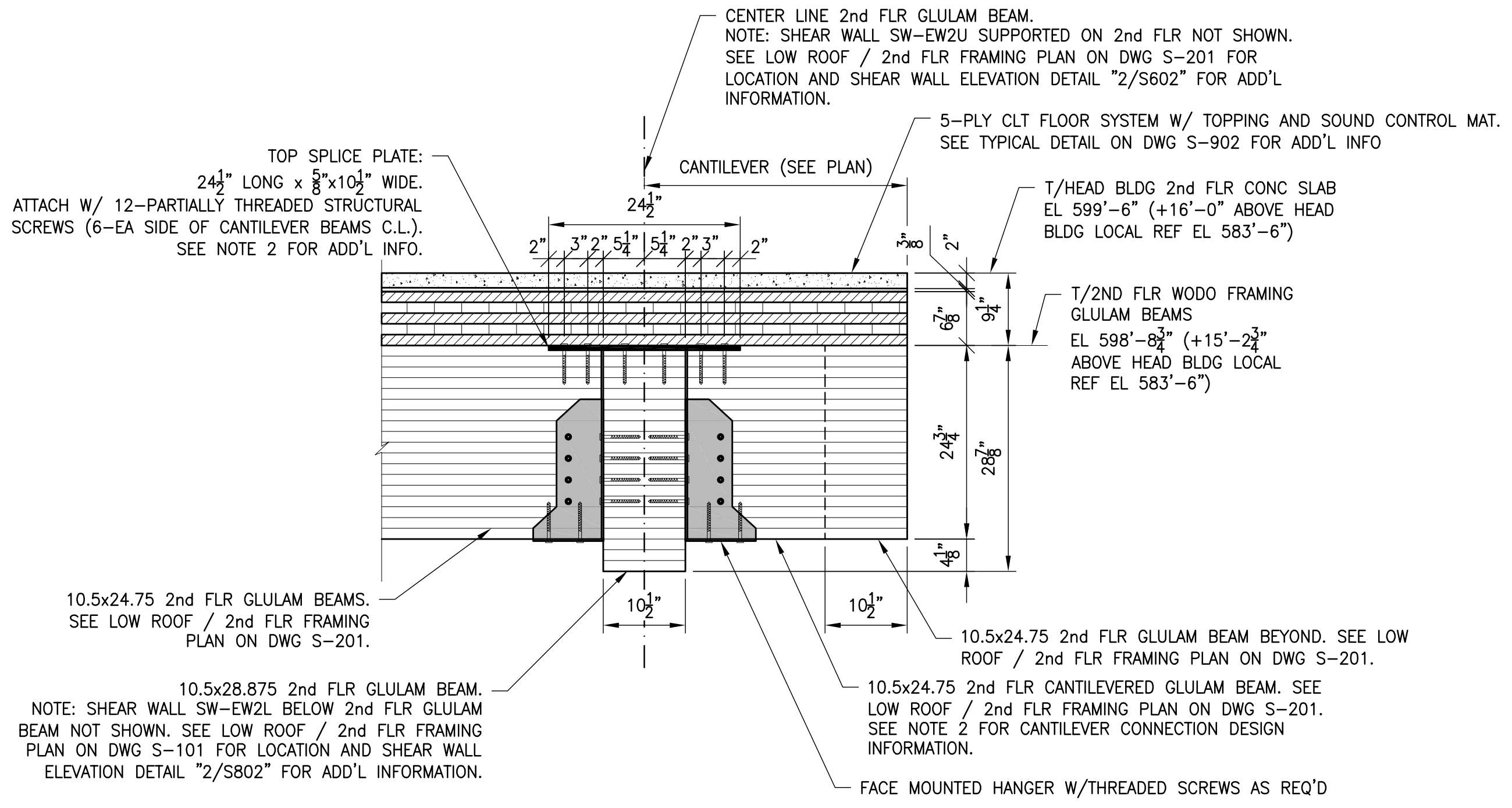
S-903


TYP
AFTER
ADJUSTMENT
$\frac{1}{4}$
$\frac{1}{4}$
END OF CLT ROOF DECK
(COORD W/ ARCH DWG'S)
L6x4x$\frac{3}{8}$ (LLH) W/ VERT SLOTTED HOLES FOR ADJESTMENT
L6x4x$\frac{3}{8}$ (LLV) BOLTED TO TOP OF CLT WOOD DECK WITH STRUCTURAL SCREWS @ 24" O.C.
HIGH ROOF DECK:
5–PLY CLT ROOF PANEL (6$\frac{7}{8}$" THICK)
COORD ROOFING SYSTEM W/ ARCH DWG'S
T/ROOF – HEAD
EL 615'–6"
(COORD W/ ARCH DWG'S)
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS
EL 614'–0"
(+30'–6 ABOVE HEAD BLDG LOCAL REF EL 583'–6")
6$\frac{7}{8}$"
24$\frac{3}{4}$"
SEE ARCH DWG'S FOR EXTERIOR WALL INFO
COORD W/ ARCH
10$\frac{1}{2}$"
10.5x24.75 GLULAM BEAMS, SEE HIGH ROOF FRAMING PLAN DWG S–301
10.5x24.75 GLULAM BEAMS, SEE HIGH ROOF FRAMING PLAN DWG S–301
12"x12$\frac{3}{8}$" GLULAM COLUMNS. SEE PLAN ON DWG S–301 AND DETAILS ON S–901 FOR COLUMN ORIENTATION
12" ALONG COLUMN LINE "A" AND "D"
12$\frac{3}{8}$" ALONG COLUMN LINE "2" AND "7"

TYPICAL EXTERIOR WALL
HIGH ROOF

A SECTION – HEAD BLDG

S–904 3/4"=1'–0"


CENTER LINE 2nd FLR GLULAM BEAM.
NOTE: SHEAR WALL SW–EW2U SUPPORTED ON 2nd FLR NOT SHOWN. SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S–201 FOR LOCATION AND SHEAR WALL ELEVATION DETAIL "2/S602" FOR ADD'L INFORMATION.
5–PLY CLT FLOOR SYSTEM W/ TOPPING AND SOUND CONTROL MAT. SEE TYPICAL DETAIL ON DWG S–902 FOR ADD'L INFO
TOP SPLICE PLATE:
24$\frac{1}{2}$" LONG x $\frac{5}{8}$"x10$\frac{1}{2}$" WIDE.
ATTACH W/ 12–PARTIALLY THREADED STRUCTURAL SCREWS (6–EA SIDE OF CANTILEVER BEAMS C.L.).
SEE NOTE 2 FOR ADD'L INFO.
CANTILEVER (SEE PLAN)
24$\frac{1}{2}$"
2" 3" 2" 5$\frac{1}{4}$" 5$\frac{1}{4}$" 2" 3" 2"
$\frac{3}{8}$"
2"
T/HEAD BLDG 2nd FLR CONC SLAB
EL 599'–6" (+16'–0" ABOVE HEAD BLDG LOCAL REF EL 583'–6")
T/2ND FLR WODO FRAMING GLULAM BEAMS
EL 598'–8$\frac{3}{4}$" (+15'–2$\frac{3}{4}$" ABOVE HEAD BLDG LOCAL REF EL 583'–6")
9$\frac{1}{4}$"
6$\frac{7}{8}$"
24$\frac{3}{4}$"
28$\frac{7}{8}$"
4$\frac{1}{8}$"
10$\frac{1}{2}$"
10$\frac{1}{2}$"
10.5x24.75 2nd FLR GLULAM BEAMS. SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S–201.
10.5x28.875 2nd FLR GLULAM BEAM.
NOTE: SHEAR WALL SW–EW2L BELOW 2nd FLR GLULAM BEAM NOT SHOWN. SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S–101 FOR LOCATION AND SHEAR WALL ELEVATION DETAIL "2/S802" FOR ADD'L INFORMATION.
10.5x24.75 2nd FLR GLULAM BEAM BEYOND. SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S–201.
10.5x24.75 2nd FLR CANTILEVERED GLULAM BEAM. SEE LOW ROOF / 2nd FLR FRAMING PLAN ON DWG S–201. SEE NOTE 2 FOR CANTILEVER CONNECTION DESIGN INFORMATION.
FACE MOUNTED HANGER W/THREADED SCREWS AS REQ'D

SECOND FLOOR CANTILEVER BEAM AT STAIR "A" OPENING

NOTES:
1. SEE DRAWING S–902 FOR TYPICAL WOOD FRAMING SECTIONS AND DETAILS FOR ADD'L INFO, INCLUDING MEMBER TO MEMBER CONNECTIONS (NOT SHOWN)
2. THE HANGER CONNECTION SHOWN IS A GRAPHIC REPRESENTATION OF THE GENERAL DESIGN INTENT. THE END CONNECTION FOR THE FASTENING OF THE 10.5 X 24.75 CANTILEVER GLULAM BEAM TO THE FACE OF THE SUPPORTING 10.5 X 28.75 GLULAM BEAM SHALL BE DESIGNED FOR THE FOLLOWING UN–FACTORED GRAVITY LOADS:
   - V (VERTICAL SHEAR) = 1300 LBS
   - M (MOMENT) = 3800 LB–FT

B SECTION – HEAD BLDG

S–904 3/4"=1'–0"

HEAD BUILDING – DESIGN PARAMETERS AND NOTES:

DESIGN PARAMETERS – HEAD BUILDING

D–1 REFERENCE BUILDING CODE: 2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
NOVEMBER 2019

D–2 LIVE LOADS:

a) HIGH ROOF LIVE LOAD = 20 PSF
b) LOW ROOF W/ ASSEMBLY = 100 PSF
c) FLOORS:
   1. SLABS ON GRADE = 100 PSF
   2. SECOND FLOOR SLAB = 100 PSF
   3. MECHANICAL ROOM FLOOR = 150 PSF

D–3 ROOF SNOW LOAD:

a) GROUND SNOW LOAD (Pg) = 60 PSF
b) FLAT–ROOF SNOW LOAD @ HEATED SPACE (Pf) = 46.2 PSF (PLUS DRIFTED SNOW)
c) SNOW EXPOSURE FACTOR (Ce) = 1.0
d) SNOW IMPORTANCE FACTOR (Is) = 1.1
e) THERMAL FACTOR @ HEATED SPACE (Ct) = 1.0
f) RISK CATEGORY III (BCNYS REFERENCE CODE TABLE 1604.5/ASCE 7–16
g.1) SNOW DRIFT SURCHARGE (Pd) – HEAD BLDG LOW ROOF (WEST OF COL LINE "D" = 90 PSF AT THE FACE OF THE WALL WITH A TRIANGULAR DISTRIBUTION OVER 12'–0" ONTO THE LOW ROOF, SUPERIMPOSED ON THE FLAT–ROOF BALANCED SNOW LOAD (Pf) PER ASCE 7–16, APPLICABLE FOR THE LOW ROOF AFFECTED BY THE HIGHER ROOF.
g.2) SNOW DRIFT SURCHARGE (Pd) – HEAD BLDG LOW ROOF (NORTH OF COL LINE "2") = 100 PSF WITH A UNIFORM DISTRIBUTION OVER THE ENTIRE AREA OF THE LOW ROOF, SUPERIMPOSED ON THE FLAT–ROOF BALANCED SNOW LOAD (Pf) PER ASCE 7–16, APPLICABLE FOR THE LOWER ROOF AFFECTED BY THE HIGH ROOF.
h) ROOF DESIGN SNOW LOAD (BALANCED SNOW) = 46.2 PSF

D–4 WIND LOAD

a) WIND SPEED (3–SECOND GUST),
   V = 120 MPH (BASIC WIND SPEED, BCNYS FIGURE 1609.3 (2), RISK CATEGORY III)
   V ASD = 93 MPH (BCNYS TABLE 1609.3.1 AND EQUATION 16–33)
b) RISK CATEGORY III (BCNYS TABLE 1604.5/ASCE 7–16)
c) WIND EXPOSURE CATEGORY B
d) INTERNAL PRESSURE COEFFICIENT (GCpi) = +/– 0.18
e) COMPONENTS AND CLADDING: POSITIVE (+) = INWARD PRESSURE
   NEGATIVE (–) = OUTWARD PRESSURE (SUCTION)

WALLS:	+20 PSF, –24 PSF WITHIN 6.5 FT OF CORNERS
	+20 PSF, –20 PSF ELSEWHERE
ROOF:	+10 PSF, –45 PSF WITHIN 6.5 FT OF CORNERS AND EDGE
	+10 PSF, –18 PSF ELSEWHERE

D–5 EARTHQUAKE LOADS

a) RISK CATEGORY III (BCNYS REFERENCE CODE TABLE 1604.5/ASCE 7–16)
b) SEISMIC IMPORTANCE FACTOR: Ie=1.25
c) SITE CLASS: SITE CLASS "C" (PER GEOTECH REPORT)
d) SPECTRAL RESPONSE COEFFICIENTS:

SMS=0.230G	SS=0.177G
SM1=0.086G	S1=0.057G
SDS=0.153G	FA=1.3
SD1=0.057G	FV=1.5

e) SEISMIC DESIGN CATEGORY: DESIGN CATEGORY "A"

CROSS–LAMINATED TIMBER (CLT) NOTES:

1. ALL CROSS–LAMINATED TIMBER (CLT) WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS, LATEST EDITIONS:
   A. NDS "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
   B. ANSI/APA PRG 320 "STANDARD FOR PERFORMANCE–RATED CROSS–LAMINATED TIMBER"
2. THE PROJECT'S CLT MANUFACTURER SHALL BE CERTIFIED IN ACCORDANCE WITH ANSI/APA PRG 320. SUBMIT CERTIFICATION FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO FABRICATION.
3. CONFIRM ALL DIMENSIONS, OUTLINES, ELEVATIONS, AND DETAILS WITH ARCHITECTURAL DRAWINGS. COORDINATE ALL DIMENSIONS WITH MATERIALS AND ELEMENTS PROVIDED BY OTHER TRADES. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS.
4. ALL CLT PANELS SHALL CONSIST OF CROSSWISE STACKED AND GLUED TOGETHER LAYERS OF PLANKS. BONDING SHALL BE CARRIED OUT EXCLUSIVELY WITH APPROVED ADHESIVES, CONFORMING TO ANSI 405 AS MODIFIED BY ANSI/APA PRG 320.
5. ALL PLANKS USED WITHIN CLT PANELS ARE TO BE STRESS AND QUALITY GRADED AND MACHINE DRIED PER NDS AND ANSI/APA PRG 320 STANDARDS, WITH THE LONGITUDINAL LAYERS COMPRISING THE MAJOR STRENGTH DIRECTION.
6. ALL SAWN LUMBER LAMINATIONS IN CLT FLOOR SLAB SHALL CONFORM TO THE FOLLOWING MINIMUM STANDARDS, TYP U.O.N.:
   A. LUMBER SPECIES: SOFTWOOD SPECIES OR SPECIES COMBINATION RECOGNIZED BY THE AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) UNDER PS 20 WITH A MINIMUM PUBLISHED SPECIFIC GRAVITY OF 0.35 AS PUBLISHED WITHIN THE NDS.
   B. LONGITUDINAL LAYER LUMBER GRADE: 1200F–1.2E MSR OR VISUAL GRADE NO. 2
   C. TRANSVERSE LAYER LUMBER GRADE: VISUAL GRADE NO. 3
7. ALL FLOOR AND ROOF PANELS SHALL BE ORIENTED WITH THE EXTERIOR LONGITUDINAL LAYER AS INDICATED ON PLAN, TYPICAL U.O.N.
8. THE MAXIMUM MOISTURE CONTENT OF THE SAWN LUMBER LAMINATION LAYERS DURING PANEL MANUFACTURING SHALL BE 12% (+/– 3%). LOWER LAMINATION MOISTURE CONTENTS SHALL BE PERMITTED IF THE ADHESIVE BOND PERFORMANCE MEETS THE QUALIFICATIONS OUTLINED IN ANSI/APA PRG 320.
9. ALL PANEL SURFACES, APPEARANCE GRADE, AND FINISHES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FINISH REQUIREMENTS. WHERE ARCHITECTURAL APPEARANCE CLASSIFICATION PANELS ARE SPECIFIED, CONTRACTOR TO PROVIDE A 24"X24" SAMPLE WITH SHOP–APPLIED SEALER FOR EACH TYPE FOR REVIEW AND APPROVAL.
10. PROVIDE CONNECTIONS AS DETAILED ON THE STRUCTURAL DRAWINGS, INCLUDE SECTIONS AND TYPICAL DETAILS. THESE SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND JURISDICTION WORKING FOR THE CLT MANUFACTURER. DRAWINGS AND CALCULATIONS OF CONNECTIONS DESIGNED BY THE CLT FABRICATOR AND THEIR ENGINEER SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK. SUBMIT CALCULATIONS FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO FABRICATION.
11. SUBMIT SHOP DRAWINGS OUTLINING FABRICATION AND ERECTION OF ALL CLT PANELS FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ALL PANEL SIZE, GEOMETRY, COMPOSITION, CONNECTIONS, DETAILS, MATERIAL SPECIFICATIONS, AND FINISHES. ERECTION DRAWINGS SHALL INCLUDE A LAYOUT FOR ALL PANELS.
12. PANELS MUST BE CONSTANTLY PROTECTED FROM THE WEATHER DURING TRANSPORTATION, STORAGE, AND ERECTION.
    A. PANELS TO BE WRAPPED WITH A WATER–RESISTANT COVERING (INCLUDING SEAMS). ON THE UNDERSIDE OF THE COVERING, PROVIDE A SLIT TO PREVENT MOISTURE ACCUMULATION WITH THE WRAPPING.
    B. STORE PANELS OFF THE GROUND AND USE SPACERS TO ALLOW FOR AIR CIRCULATION ON ALL PANEL FACES.
    C. CONTRACTOR IS RESPONSIBLE FOR TAKING APPROPRIATE MEASURES TO MINIMIZE DAMAGE TO PANELS, INCLUDING PANEL STAINING, CRACKING, DISTORTION, AND WARPING.
13. ONE COAT OF SEALER SHALL BE APPLIED TO ARCHITECTURAL FACE OF PANEL. SUBMIT PROPOSED SEALER FOR REVIEW AND APPROVAL BY THE DESIGN TEAM.
14. WHEN CLT ELEMENTS ARE IN CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION ELEMENTS, A MOISTURE BARRIER MUST BE PROVIDED TO PROTECT THE TIMBER ELEMENTS FROM ASCENDING MOISTURE.
15. CLT PANELS SHALL BE ERECTED AND INSTALLED IN CONFORMANCE WITH MANUFACTURER REQUIREMENTS. MARK ALL PANELS FOR IDENTIFICATION DURING ERECTION, INCLUDING IDENTIFICATION OF TOP SURFACE. ENSURE THAT MARKS ARE NOT COMPLETED ON EXPOSED–TO–VIEW PANEL SURFACES. ALL PANELS SHALL BE LIFTED AND SUPPORTED FROM DESIGNATED POINTS SHOWN IN THE APPROVED SHOP DRAWINGS.
16. PANELS TO BE ERECTED AND PLACED IN THE FIELD WITHOUT TRIMMING, CUTTING, OR OTHER MODIFICATIONS, UNLESS APPROVED BY THE DESIGN TEAM. SITE CUTTING OR BORING OF PANELS NOT SHOWN ON THE APPROVED SHOP DRAWINGS IS NOT PERMITTED WITHOUT WRITTEN CONSENT FROM THE DESIGN TEAM. SHOULD APPROVED FIELD MODIFICATIONS BE REQUIRED, COAT ALL FIELD–CUT OPENINGS WITH TWO LAYERS OF SEALER.
17. ALL CLT PANELS SHALL BE ADEQUATELY BRACED AND SUPPORTED UNTIL ALL STRUCTURAL DIAPHRAGMS AND PERMANENT STRUCTURAL ELEMENTS ARE INSTALLED AND CONNECTED.
18. ANY SUBSTITUTIONS OF CLT ELEMENTS MUST HAVE WRITTEN APPROVAL OF THE DESIGN TEAM PRIOR TO SUBMISSION OF SHOP DRAWINGS OR FABRICATION. IF CLT PANELS DEVIATE FROM CONTRACT DOCUMENTS, CLT MANUFACTURER TO PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS TO ENSURE THAT THE VARIANCE MEETS ALL STRUCTURAL, FIRE, AND ARCHITECTURAL REQUIREMENTS TO THE SATISFACTION OF THE DESIGN TEAM.
19. STRUCTURAL STEEL FOR ALL CONNECTION SHALL CONSIST OF ASTM A36 UNLESS OTHERWISE NOTED. ALL STEEL COMPONENTS FOR PANEL–TO–PANEL CONNECTIONS MUST BE TEST–FITTED AT THE MANUFACTURING FACILITY PRIOR TO SHIPMENT. FOR EXTERIOR APPLICATIONS, ALL STEEL CONNECTION ELEMENTS MUST BE HOT–DIPPED GALVANIZED OR COMPOSED OF STAINLESS STEEL.
20. CONTRACTOR TO SUPPLY REPRESENTATIVE MOCKUP OF MIN 200 SF OF CLT FOR REVIEW BY DESIGN TEAM. CLT TO MATCH SPECIES, VISUAL GRADE, FASTENER ARRANGEMENT, AS NOTED IN THESE DOCUMENTS.

GLUED LAMINATED TIMBER (GLULAM) NOTES:

1. ALL GLULAM WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   A. ANSI/AWC NDS
   B. ANSI A190.1
2. CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK RETAINED BY THE TIMBER FABRICATOR AND EXPERIENCED IN THE DESIGN OF MASS TIMBER CONNECTIONS. DRAWINGS AND CALCULATIONS OF COMPONENTS DESIGNED BY THE TIMBER FABRICATOR SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK. UNLESS OTHERWISE NOTED ON PLAN, PROVIDE CONNECTIONS BASED ON MINIMUM SHEAR CAPACITY REQUIREMENTS IN THE TABLE ON EACH FLOOR PLAN.
3. ANY CONNECTIONS WITH STEEL HARDWARE SHALL UTILIZE EXPOSED CONNECTIONS AS MUCH AS POSSIBLE. REFER TO TYPICAL DETAILS ON DWG S–902 FOR CONCEPTUAL INFORMATION.
4. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF GLULAM FRAMING SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS. SHOP DRAWINGS TO SHOW ALL CONNECTIONS AND DETAILS, MATERIAL SPECIFICATIONS, FINISHES, AND AN ERECTION LAYOUT FOR ALL MEMBERS.
5. GLULAM MANUFACTURER SHALL BE CERTIFIED IN ACCORDANCE WITH ANSI A190.1.
6. ALL NECESSARY PRECAUTIONS SHOULD BE TAKEN TO KEEP FRAMING DRY AND PROTECTED FROM UV LIGHT DURING AND AFTER INSTALLATION.
7. GLULAM MEMBERS TO BE INDIVIDUALLY WRAPPED USING PLASTIC–COATED PAPER COVERING WITH WATER–RESISTANT SEAMS. SLIT THE WRAP ON THE UNDERSIDE OF THE MEMBERS WHILE THEY ARE BEING STORED ON THE BUILDING SITE.
8. GLULAM MEMBERS IN DELIVERY TO BE STORED ON BLOCKS OF WOOD TO AVOID DIRECT CONTACT WITH THE GROUND. SEPARATE THEM WITH SPACER TO ALLOW AIR TO MOVE FREELY ON ALL SIDES.
9. GLULAM MEMBERS TO MEET THE FOLLOWING SPECIFICATIONS. ANY SUBSTITUTION MUST BE APROVED BY THE ENGINEER AND ARCHITECT.
   A. BASIS OF DESIGN: GLULAM COLUMNS:
      –VISUALLY GRADED SOUTHERN PINE
      –COMBINATION SYMBOL: 47 1:8
      –UNIFORM GRADE LAYOUT: N2M
      –STANDARD DEPTHS IN STANDARD LAMINATION THICKNESS = 1$\frac{3}{8}$"
   B. BASIS OF DESIGN: – GLULAM BEAMS:
      –VISUALLY GRADED SOUTHERN PINE (OUTER / CORE)
      –COMBINATION SYMBOL: 24F–V3
      –UNBALANCED LAYUP
      –STANDARD DEPTHS IN STANDARD LAMINATION THICKNESS = 1$\frac{3}{8}$"

C. ADHESIVE	–	AITC405
D. APPEARANCE CLASSIFICATION	–	ARCHITECTURAL WERE EXPOSED AS DEFINED IN AITC 110
E. SEALER	–	PER MANUFACTURER STANDARD – TO BE TRANSPARENT AND COMPATIBLE WITH FINISH

10. FIELD CUTTING OR BORING OF MEMBERS IS NOT PERMITTED WITHOUT APPROVAL BY ENGINEER AND ARCHITECT. COAT ALL FIELD–CUT OPENINGS WITH MINIMUM OF TWO COATS OF CLEAR SEALER.
11. PROVIDE 24" LONG SAMPLES OF ARCHITECTURAL APPEARANCE GRADE MEMBER WITH SHOP–APPLIED SEALER FOR REVIEW BY ENGINEER AND ARCHITECT
12. WHEN GLULAM MEMBERS ARE IN CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION ELEMENTS, A MOISTURE BARRIER MUST BE PROVIDED TO PROTECT THE TIMBER ELEMENTS.
13. SEE ARCHITECTURAL DOCUMENTS FOR FIRE RATING INFORMATION.
14. PROVIDE DOUBLE COAT OF END SEALER AT ALL CROSS CUT SURFACES.
15. AT ALL EXTERIOR MEMBERS PROVIDE A SHOP–APPLIED 1/2" THICK END CAP OF MATCHING WOOD MATERIAL GLUED TO END FACE. SHOP APPLY THREE COATS OF SEALANT TO ALL SIDES AND END CAPS OF MEMBERS WHEN EXPOSED TO RAIN OF MOISTURE.
16. GLULAM MEMBERS SHALL BE ERECTED AND INSTALLED IN CONFORMANCE WITH MANUFACTURER REQUIREMENTS. MARK ALL MEMBERS FOR IDENTIFICATION DURING ERECTION INCLUDING IDENTIFICATION OF TOP SURFACE. ENSURE THAT ALL MARKS ARE NOT COMPLETED ON EXPOSED SURFACES.
17. ALL GLULAM BEAMS SHALL BE ADEQUATELY BRACED AND SUPPORTED UNTIL ALL STRUCTURAL DIAPHRAGMS AND PERMANENT STRUCTURAL ELEMENTS ARE INSTALLED AND CONNECTED.

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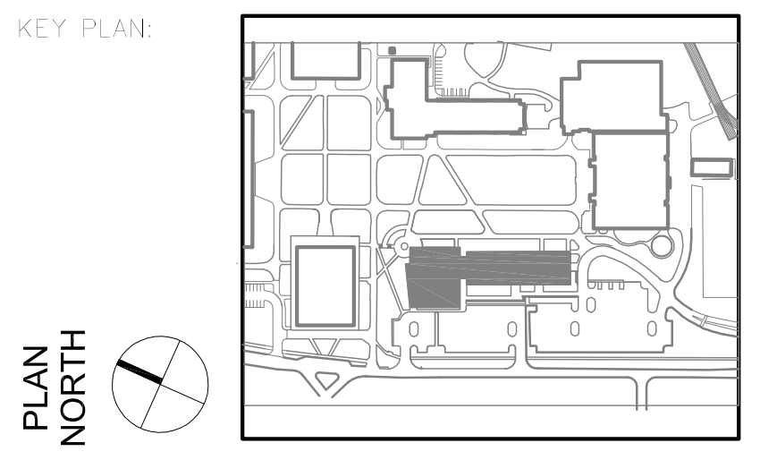


PROJECT:

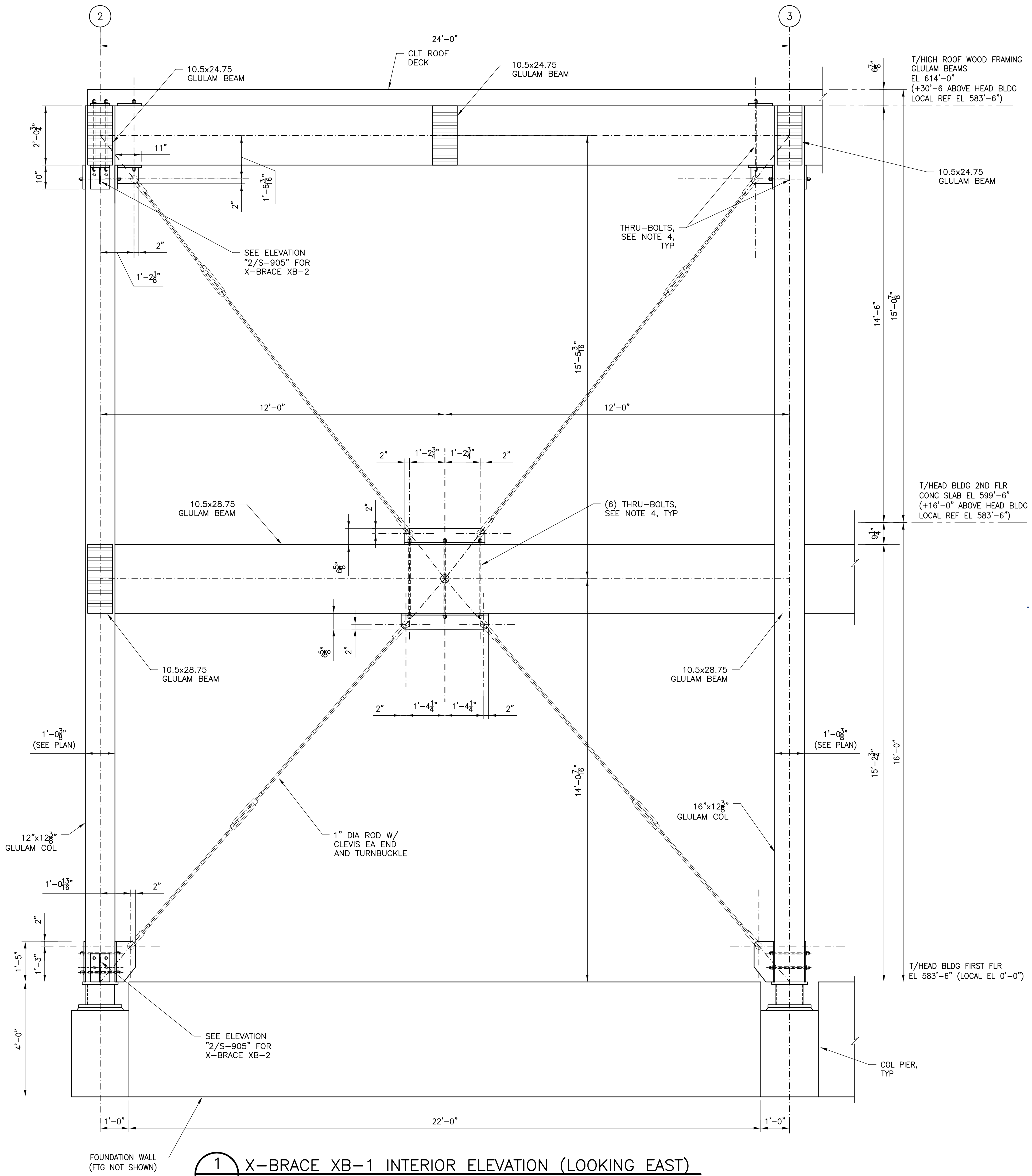
SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

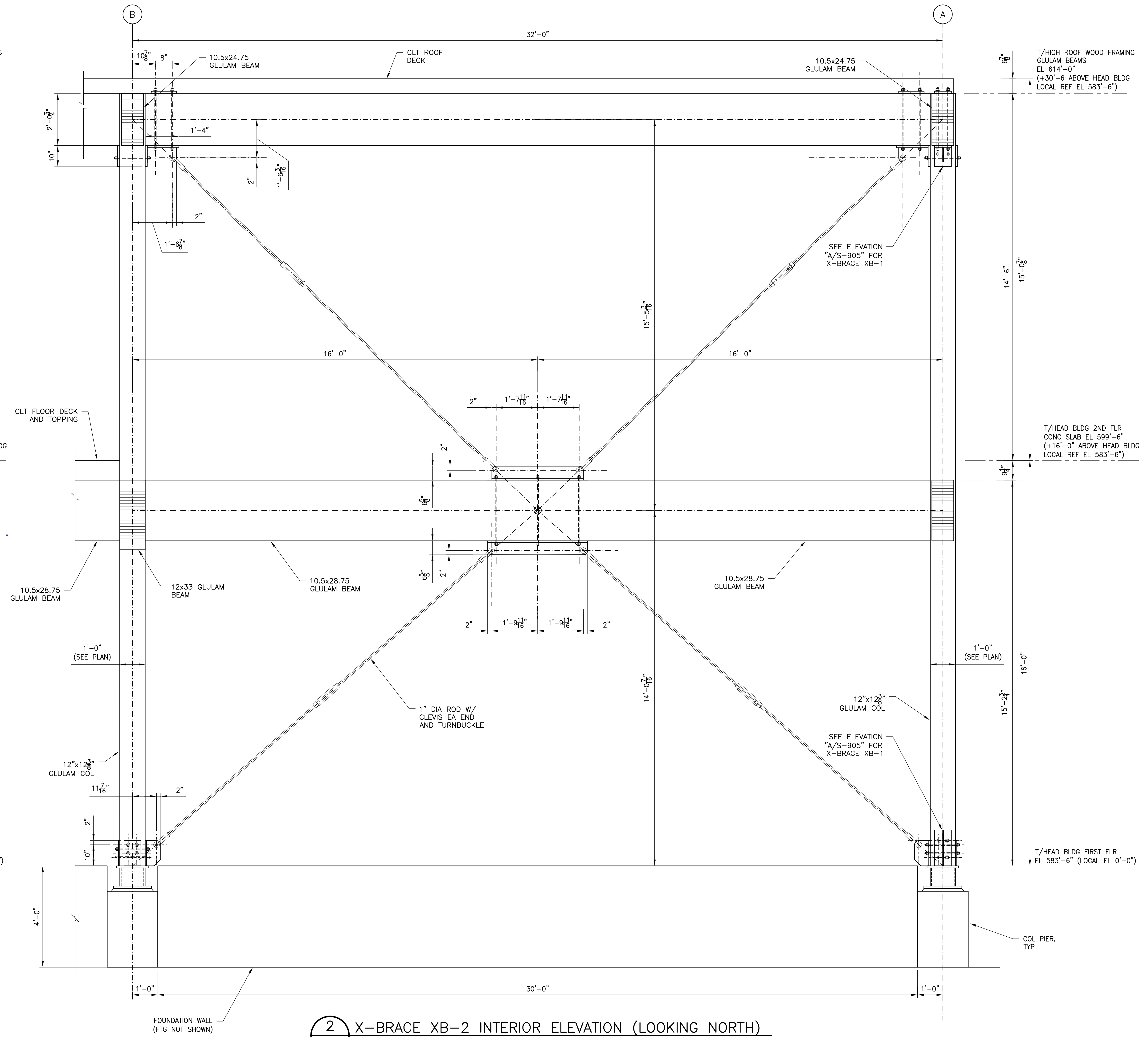
HEAD BUILDING –
WOOD FRAMING
SECTIONS, DESIGN
PARAMETERS AND
NOTES

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

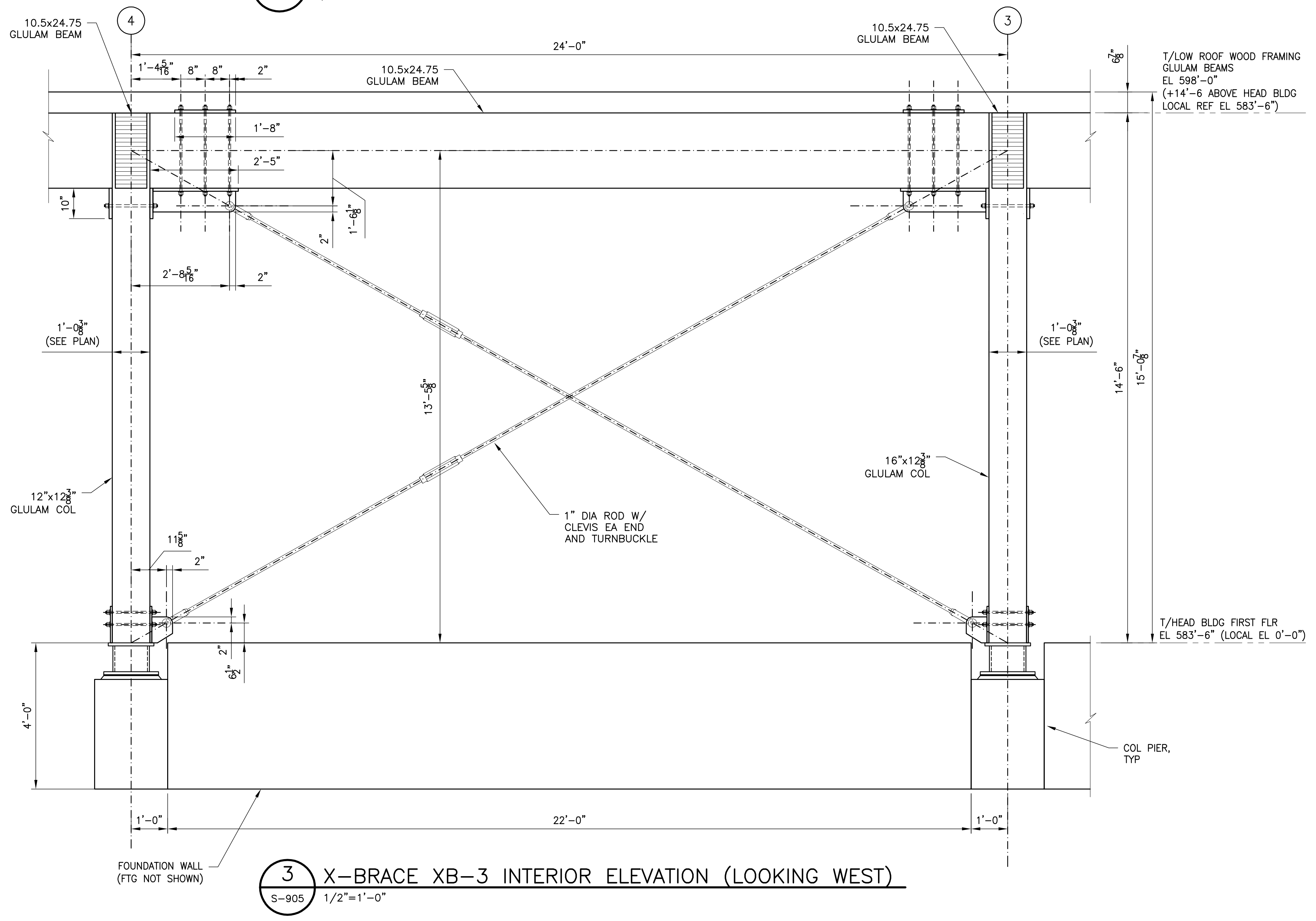
S-904


2
3
24'-0"
CLT ROOF DECK
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x24.75 GLULAM BEAM
THRU-BOLTS, SEE NOTE 4, TYP
SEE ELEVATION "2/S-905" FOR X-BRACE XB-2
12'-0"
12'-0"
10.5x28.75 GLULAM BEAM
(6) THRU-BOLTS, SEE NOTE 4, TYP
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x28.75 GLULAM BEAM
10.5x28.75 GLULAM BEAM
1'-0" (SEE PLAN)
1'-0" (SEE PLAN)
16"x12⅜" GLULAM COL
12"x12⅜" GLULAM COL
1" DIA ROD W/ CLEVIS EA END AND TURNBUCKLE
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
SEE ELEVATION "2/S-905" FOR X-BRACE XB-2
COL PIER, TYP
FOUNDATION WALL (FTG NOT SHOWN)
1'-0"
22'-0"
1'-0"
14'-6"
15'-0⅞"
15'-5³⁄₁₆"
16'-0"
4'-0"

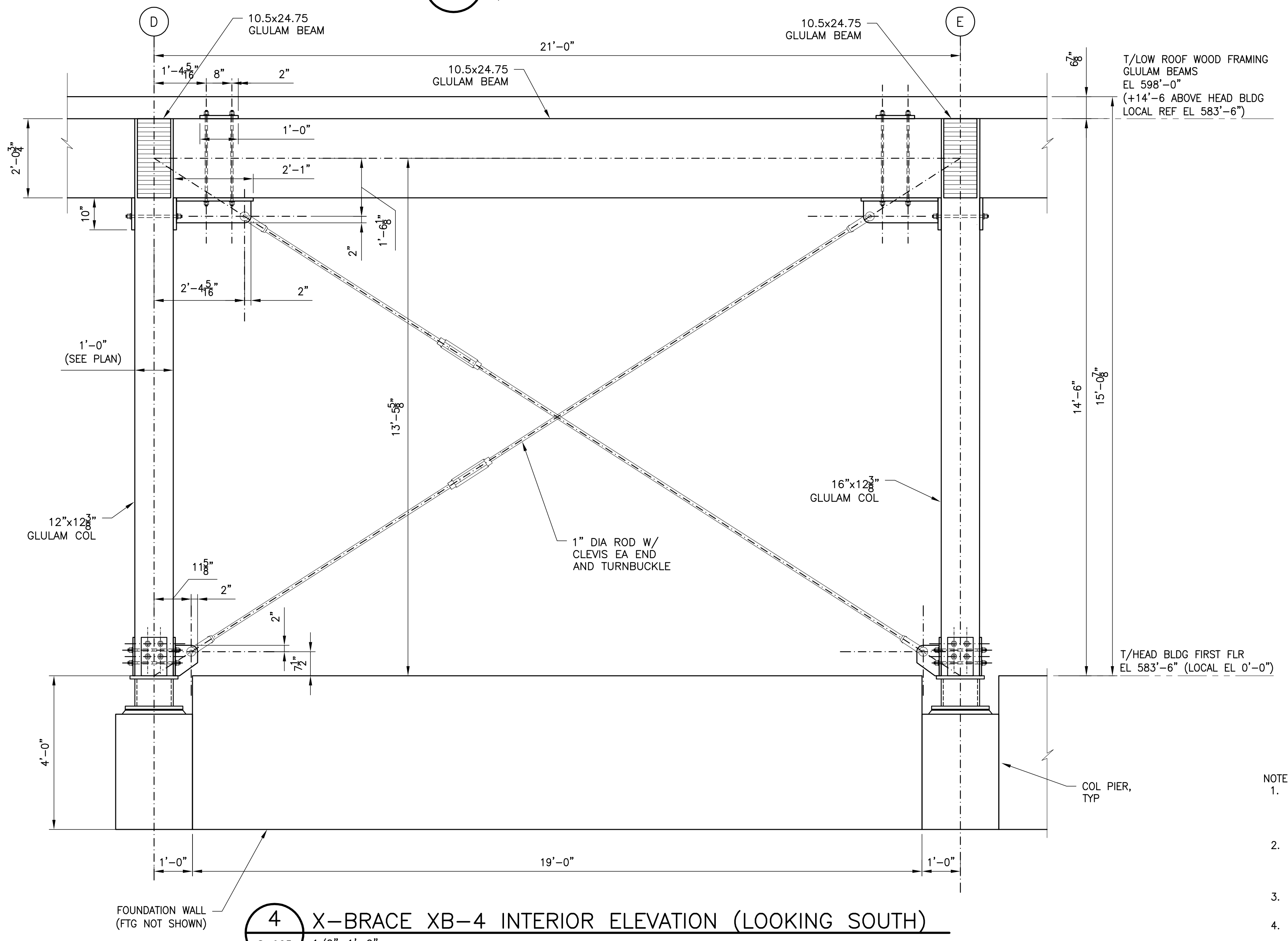
① X-BRACE XB-1 INTERIOR ELEVATION (LOOKING EAST)
S-905 1/2"=1'-0"


B
A
32'-0"
CLT ROOF DECK
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
T/HIGH ROOF WOOD FRAMING GLULAM BEAMS EL 614'-0" (+30'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
SEE ELEVATION "A/S-905" FOR X-BRACE XB-1
16'-0"
16'-0"
CLT FLOOR DECK AND TOPPING
T/HEAD BLDG 2ND FLR CONC SLAB EL 599'-6" (+16'-0" ABOVE HEAD BLDG LOCAL REF EL 583'-6")
10.5x28.75 GLULAM BEAM
12x33 GLULAM BEAM
10.5x28.75 GLULAM BEAM
10.5x28.75 GLULAM BEAM
1'-0" (SEE PLAN)
1'-0" (SEE PLAN)
12"x12⅜" GLULAM COL
SEE ELEVATION "A/S-905" FOR X-BRACE XB-1
1" DIA ROD W/ CLEVIS EA END AND TURNBUCKLE
12"x12⅜" GLULAM COL
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
COL PIER, TYP
FOUNDATION WALL (FTG NOT SHOWN)
1'-0"
30'-0"
1'-0"

② X-BRACE XB-2 INTERIOR ELEVATION (LOOKING NORTH)
S-905 1/2"=1'-0"


4
3
10.5x24.75 GLULAM BEAM
24'-0"
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
1'-8"
2'-5"
1'-0" (SEE PLAN)
1'-0" (SEE PLAN)
16"x12⅜" GLULAM COL
12"x12⅜" GLULAM COL
1" DIA ROD W/ CLEVIS EA END AND TURNBUCKLE
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
COL PIER, TYP
FOUNDATION WALL (FTG NOT SHOWN)
1'-0"
22'-0"
1'-0"
14'-6"
4'-0"

③ X-BRACE XB-3 INTERIOR ELEVATION (LOOKING WEST)
S-905 1/2"=1'-0"


D
E
10.5x24.75 GLULAM BEAM
21'-0"
10.5x24.75 GLULAM BEAM
10.5x24.75 GLULAM BEAM
T/LOW ROOF WOOD FRAMING GLULAM BEAMS EL 598'-0" (+14'-6 ABOVE HEAD BLDG LOCAL REF EL 583'-6")
1'-0"
2'-1"
1'-0" (SEE PLAN)
16"x12⅜" GLULAM COL
12"x12⅜" GLULAM COL
1" DIA ROD W/ CLEVIS EA END AND TURNBUCKLE
T/HEAD BLDG FIRST FLR EL 583'-6" (LOCAL EL 0'-0")
COL PIER, TYP
FOUNDATION WALL (FTG NOT SHOWN)
1'-0"
19'-0"
1'-0"
14'-6"
4'-0"

④ X-BRACE XB-4 INTERIOR ELEVATION (LOOKING SOUTH)
S-905 1/2"=1'-0"

NOTES:

1. SEE DRAWING S-902 FOR TYPICAL WOOD FRAMING SECTIONS AND DETAILS FOR ADD'L INFO, INCLUDING MEMBER TO MEMBER CONNECTIONS (NOT SHOWN).
2. ALL X-BRACE CONNECTION PLATES SHALL BE ⅝" STEEL PLATES U.O.N., COORD PLATE SIZE AND PIN DIAMETER AT CLEVIS CONNECTION W/ CLEVIS MFGR.
3. COORD PRIME / PAINT FOR X-BRACING W/ ARCH DWGS.
4. ALL THRU BOLTS SHALL BE ¾" DIA F1554 THREADED ROD W/ MATCHING NUTS AND PL WASHERS EA SIDE.
5. SEE DRAWING S-901 FOR COLUMN SCHEDULE AND DRAWING S-901.1 FOR BASE PLATE DETAILS AT X-BRACING LOCATIONS.

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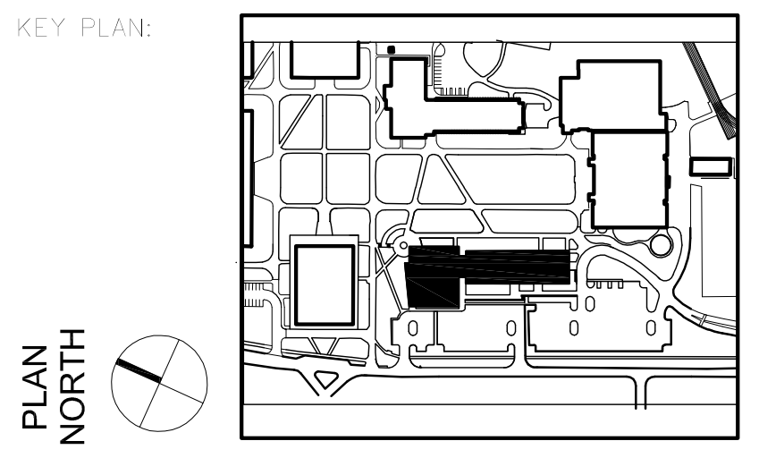
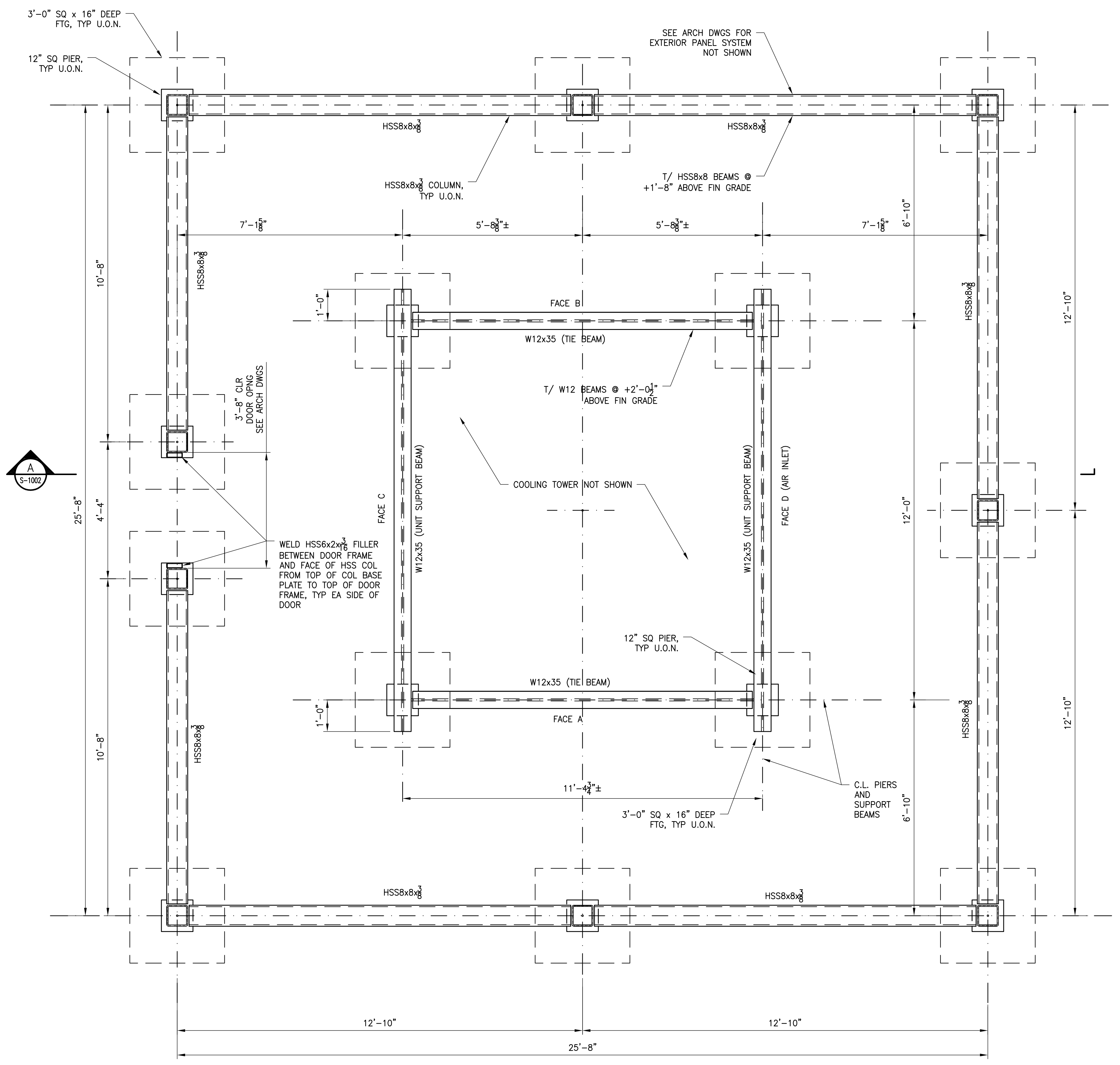


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
HEAD BUILDING – EXTERIOR WALL X-BRACE ELEVATIONS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-905


3'-0" SQ x 16" DEEP FTG, TYP U.O.N.
12" SQ PIER, TYP U.O.N.
SEE ARCH DWGS FOR EXTERIOR PANEL SYSTEM NOT SHOWN
HSS8x8x3/8
HSS8x8x3/8 COLUMN, TYP U.O.N.
T/ HSS8x8 BEAMS @ +1'-8" ABOVE FIN GRADE
7'-1 5/8"
5'-8 3/8"±
5'-8 3/8"±
7'-1 5/8"
6'-10"
10'-8"
4'-4"
25'-8"
12'-10"
12'-0"
1'-0"
FACE B
W12x35 (TIE BEAM)
T/ W12 BEAMS @ +2'-0 1/2" ABOVE FIN GRADE
3'-8" CLR DOOR OPNG SEE ARCH DWGS
A
S-1002
COOLING TOWER NOT SHOWN
FACE C
W12x35 (UNIT SUPPORT BEAM)
FACE D (AIR INLET)
WELD HSS6x2x3/16 FILLER BETWEEN DOOR FRAME AND FACE OF HSS COL FROM TOP OF COL BASE PLATE TO TOP OF DOOR FRAME, TYP EA SIDE OF DOOR
12" SQ PIER, TYP U.O.N.
FACE A
11'-4 3/4"±
3'-0" SQ x 16" DEEP FTG, TYP U.O.N.
C.L. PIERS AND SUPPORT BEAMS
12'-10"
25'-8"

1 COOLING TOWER SUPPORT FRAME AND ENCLOSURE FOUNDATION PLAN

S-1001 1/2"=1'-0"

NOTES:

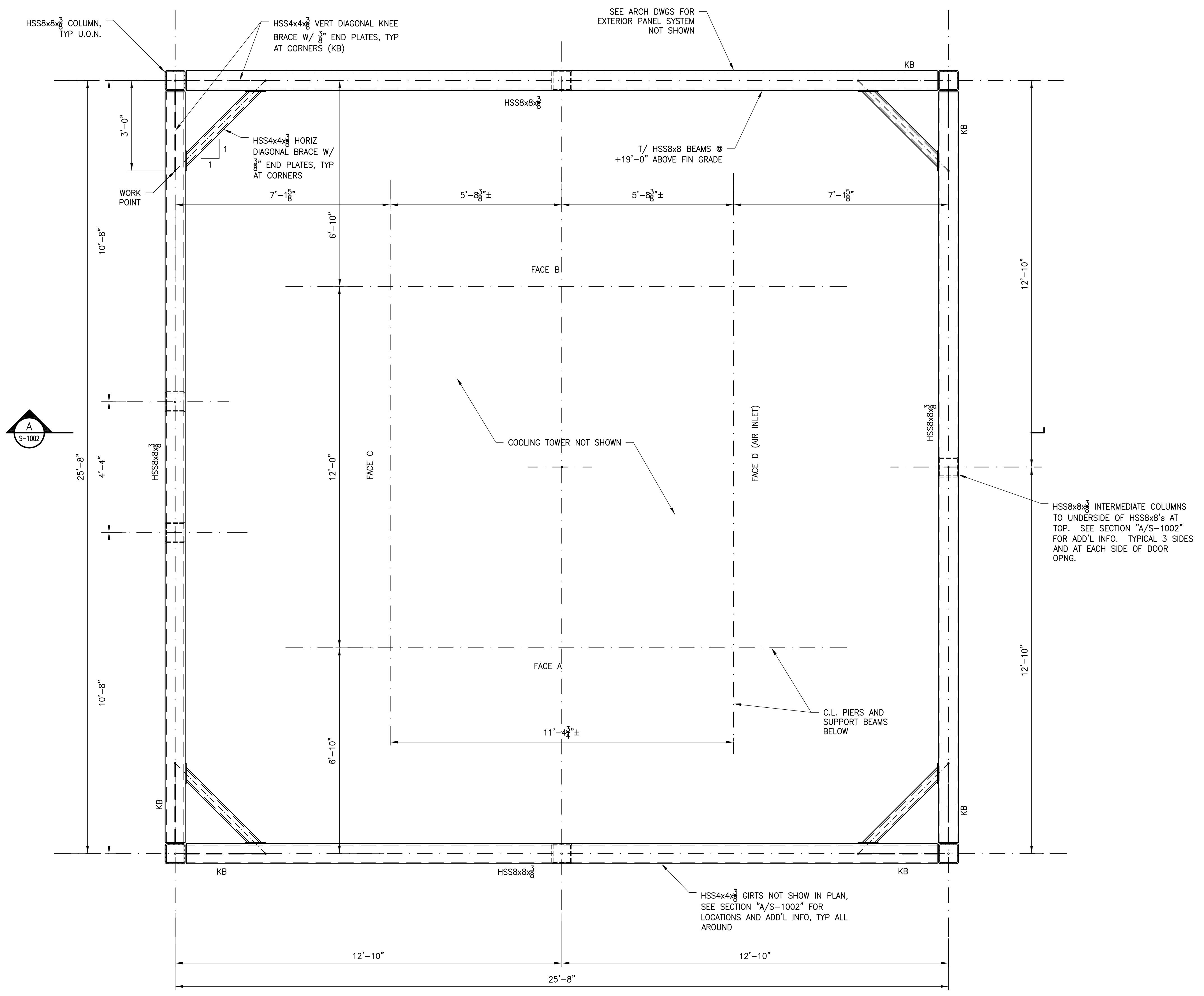
F-1. REFERENCE DATUM FOR PLAN IS AT FIN GRADE = 0'-0".

F-2. PLAN IS SHOWN AT STEEL FRAMING THAT IS LOCATED JUST ABOVE T/ PIERS.

F-3. T/ PIERS ARE AT ELEVATION +10" ABOVE REF DATUM IN NOTE F-1.

F-4. T/ BASE PLATES ARE AT ELEVATION +1'-0" ABOVE REF DATUM IN NOTE F-1.

F-5. T/ HSS8x8's ARE AT ELEV +1'-8" ABOVE REF DATUM IN NOTE F-1.


HSS8x8x3/8 COLUMN, TYP U.O.N.
HSS4x4x3/8 VERT DIAGONAL KNEE BRACE W/ 3/8" END PLATES, TYP AT CORNERS (KB)
SEE ARCH DWGS FOR EXTERIOR PANEL SYSTEM NOT SHOWN
KB
HSS8x8x3/8
3'-0"
1
1
HSS4x4x3/8 HORIZ DIAGONAL BRACE W/ 3/8" END PLATES, TYP AT CORNERS
WORK POINT
T/ HSS8x8 BEAMS @ +19'-0" ABOVE FIN GRADE
7'-1 5/8"
5'-8 3/8"±
5'-8 3/8"±
7'-1 5/8"
6'-10"
10'-8"
4'-4"
25'-8"
12'-0"
12'-10"
FACE B
A
S-1002
COOLING TOWER NOT SHOWN
FACE C
FACE D (AIR INLET)
HSS8x8x3/8 INTERMEDIATE COLUMNS TO UNDERSIDE OF HSS8x8's AT TOP. SEE SECTION "A/S-1002" FOR ADD'L INFO. TYPICAL 3 SIDES AND AT EACH SIDE OF DOOR OPNG.
FACE A
C.L. PIERS AND SUPPORT BEAMS BELOW
11'-4 3/4"±
KB
HSS4x4x3/8 GIRTS NOT SHOW IN PLAN, SEE SECTION "A/S-1002" FOR LOCATIONS AND ADD'L INFO, TYP ALL AROUND
12'-10"
25'-8"

2 COOLING TOWER SUPPORT FRAME AND ENCLOSURE FRAMING PLAN

S-1001 1/2"=1'-0"

NOTES:

S-1 REFERENCE DATUM FOR PLAN IS AT FIN GRADE = 0'-0".

S-2. PLAN IS SHOWN AT STEEL FRAMING THAT IS LOCATED AT TOP OF SCREEN WALL, +19'-0" ABOVE REF DATUM IN NOTE S-1.

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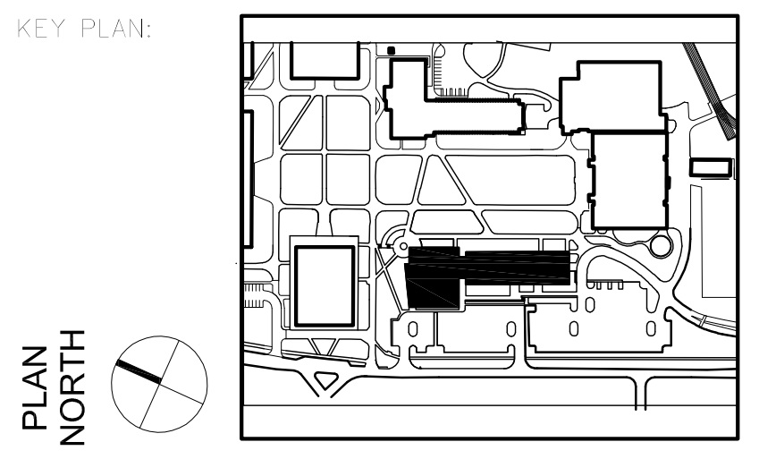
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

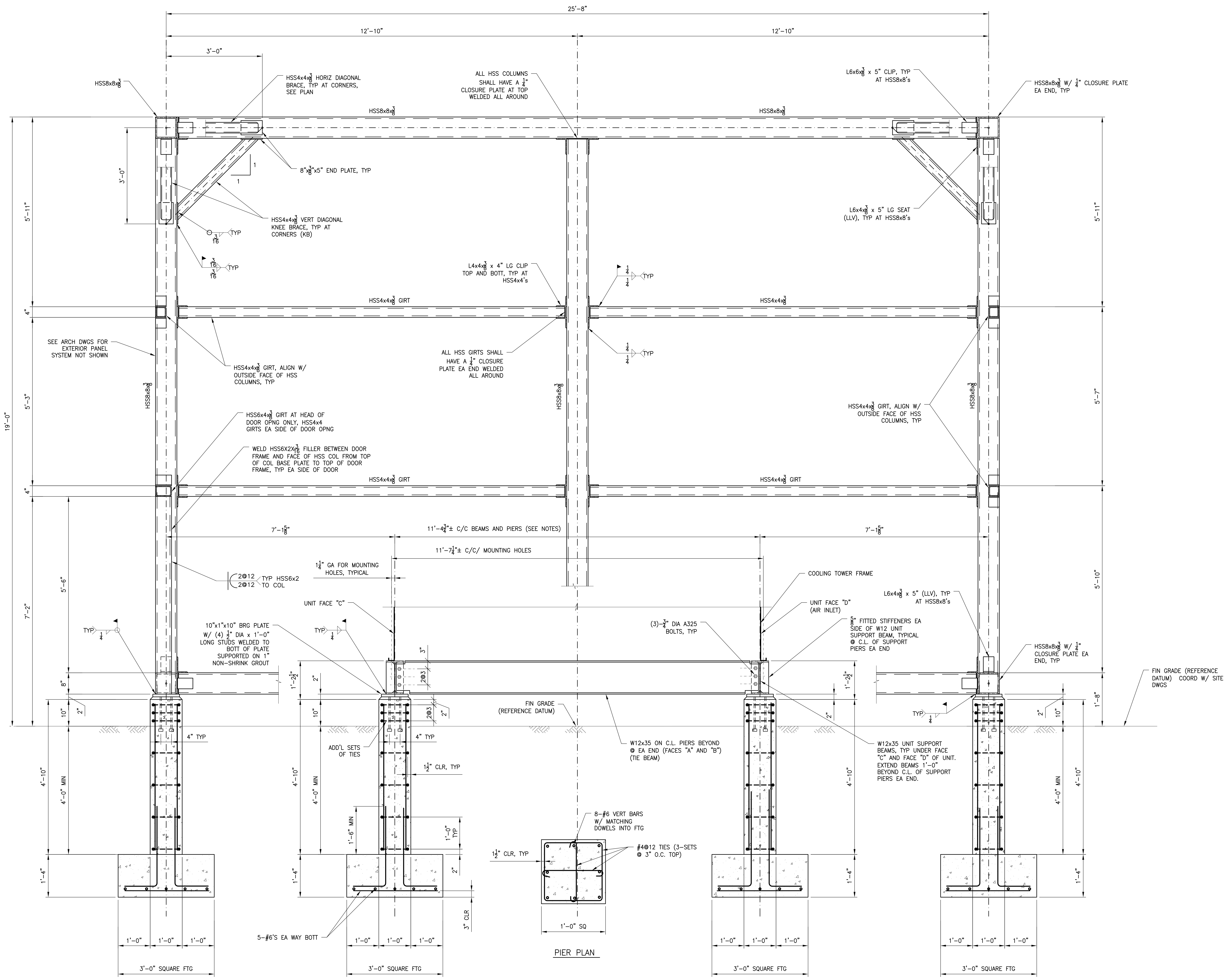
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COOLING TOWER– ENCLOSURE AND SUPPORT STRUCTURE PLANS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

S-1001


25'-8"
12'-10"
12'-10"
3'-0"
HSS8x8x$\frac{3}{8}$
HSS4x4x$\frac{3}{8}$ HORIZ DIAGONAL BRACE, TYP AT CORNERS, SEE PLAN
ALL HSS COLUMNS SHALL HAVE A $\frac{1}{4}$" CLOSURE PLATE AT TOP WELDED ALL AROUND
L6x6x$\frac{3}{8}$ x 5" CLIP, TYP AT HSS8x8's
HSS8x8x$\frac{3}{8}$ W/ $\frac{1}{4}$" CLOSURE PLATE EA END, TYP
HSS8x8x$\frac{3}{8}$
HSS8x8x$\frac{3}{8}$
8"x$\frac{3}{8}$"x5" END PLATE, TYP
1
1
3'-0"
5'-11"
HSS4x4x$\frac{3}{8}$ VERT DIAGONAL KNEE BRACE, TYP AT CORNERS (KB)
L6x4x$\frac{3}{8}$ x 5" LG SEAT (LLV), TYP AT HSS8x8's
$\frac{3}{16}$ TYP
$\frac{3}{16}$ $\frac{3}{16}$ TYP
L4x4x$\frac{3}{8}$ x 4" LG CLIP TOP AND BOTT, TYP AT HSS4x4's
$\frac{1}{4}$ $\frac{1}{4}$ TYP
HSS4x4x$\frac{3}{8}$ GIRT
HSS4x4x$\frac{3}{8}$
4"
SEE ARCH DWGS FOR EXTERIOR PANEL SYSTEM NOT SHOWN
$\frac{1}{4}$ $\frac{1}{4}$ TYP
ALL HSS GIRTS SHALL HAVE A $\frac{1}{4}$" CLOSURE PLATE EA END WELDED ALL AROUND
HSS4x4x$\frac{3}{8}$ GIRT, ALIGN W/ OUTSIDE FACE OF HSS COLUMNS, TYP
HSS8x8x$\frac{3}{8}$
HSS8x8x$\frac{3}{8}$
HSS8x8x$\frac{3}{8}$
HSS4x4x$\frac{3}{8}$ GIRT, ALIGN W/ OUTSIDE FACE OF HSS COLUMNS, TYP
19'-0"
5'-3"
5'-7"
HSS6x4x$\frac{3}{8}$ GIRT AT HEAD OF DOOR OPNG ONLY, HSS4x4 GIRTS EA SIDE OF DOOR OPNG
WELD HSS6X2X$\frac{3}{16}$ FILLER BETWEEN DOOR FRAME AND FACE OF HSS COL FROM TOP OF COL BASE PLATE TO TOP OF DOOR FRAME, TYP EA SIDE OF DOOR
HSS4x4x$\frac{3}{8}$ GIRT
HSS4x4x$\frac{3}{8}$ GIRT
4"
7'-1$\frac{5}{8}$"
11'-4$\frac{3}{4}$"± C/C BEAMS AND PIERS (SEE NOTES)
7'-1$\frac{5}{8}$"
11'-7$\frac{1}{4}$"± C/C/ MOUNTING HOLES
1$\frac{1}{4}$" GA FOR MOUNTING HOLES, TYPICAL
2@12 2@12 TYP HSS6x2 TO COL
COOLING TOWER FRAME
UNIT FACE "C"
UNIT FACE "D" (AIR INLET)
L6x4x$\frac{3}{8}$ x 5" (LLV), TYP AT HSS8x8's
5'-6"
7'-2"
5'-10"
TYP $\frac{1}{4}$
10"x1"x10" BRG PLATE W/ (4) $\frac{1}{2}$" DIA x 1'-0" LONG STUDS WELDED TO BOTT OF PLATE SUPPORTED ON 1" NON-SHRINK GROUT
TYP $\frac{1}{4}$
(3)-$\frac{3}{4}$" DIA A325 BOLTS, TYP
$\frac{5}{8}$" FITTED STIFFENERS EA SIDE OF W12 UNIT SUPPORT BEAM, TYPICAL @ C.L. OF SUPPORT PIERS EA END
HSS8x8x$\frac{3}{8}$ W/ $\frac{1}{4}$" CLOSURE PLATE EA END, TYP
FIN GRADE (REFERENCE DATUM) COORD W/ SITE DWGS
3"
2@3
2@3
8"
1'-2$\frac{1}{2}$"
2"
2"
1'-2$\frac{1}{2}$"
2"
1'-8"
10"
10"
2"
2"
10"
10"
FIN GRADE (REFERENCE DATUM)
TYP $\frac{1}{4}$
4" TYP
4" TYP
ADD'L SETS OF TIES
1$\frac{1}{2}$" CLR, TYP
W12x35 ON C.L. PIERS BEYOND @ EA END (FACES "A" AND "B") (TIE BEAM)
W12x35 UNIT SUPPORT BEAMS, TYP UNDER FACE "C" AND FACE "D" OF UNIT. EXTEND BEAMS 1'-0" BEYOND C.L. OF SUPPORT PIERS EA END.
4'-10"
4'-0" MIN
4'-10"
4'-0" MIN
1'-6" MIN
1'-0" TYP
8-#6 VERT BARS W/ MATCHING DOWELS INTO FTG
1$\frac{1}{2}$" CLR, TYP
#4@12 TIES (3-SETS @ 3" O.C. TOP)
4'-10"
4'-0" MIN
4'-0" MIN
4'-10"
1'-4"
1'-4"
2"
1'-4"
1'-4"
3" CLR
5-#6'S EA WAY BOTT
1'-0" SQ
PIER PLAN
1'-0" 1'-0" 1'-0"
3'-0" SQUARE FTG
1'-0" 1'-0" 1'-0"
3'-0" SQUARE FTG
1'-0" 1'-0" 1'-0"
3'-0" SQUARE FTG
1'-0" 1'-0" 1'-0"
3'-0" SQUARE FTG

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SECTION AT COOLING TOWER SUPPORT FRAME AND ENCLOSURE

3/4"=1'-0"

NOTES:

1. ALL ELEVATED FRAMING FOR SUPPORT OF THE COOLING TOWER AND ENCLOSURE SUPPORT FRAMING (INCLUDING, BUT NOT LIMITED TO, COLUMNS, BEAMS, ANGLES, PLATES, CONNECTIONS AND BOLTS) SHALL BE HOT-DIPPED GALVANIZED STEEL. PROVIDE GALVANIZED REPAIR PAINT AT FIELD WELDS AS REQUIRED.
2. INFORMATION SHOWN FOR SUPPORT OF THE COOLING TOWER IS BASED ON PRELIMINARY INFORMATION OBTAINED DURING DESIGN FROM A POTENTIAL VENDOR.
    - A. COOLING TOWER BASIS OF DESIGN: BALTIMORE AIRCOIL COMPANY, SERIES 1500 SINGLE CELL UNIT, MODEL S15E-1212-09 JN COOLING TOWER. MAXIMUM SHIPPING WEIGHT = 9112 POUNDS / MAXIMUM OPERATING WEIGHT = 17822 POUNDS.
3. THE GENERAL CONTRACTOR SHALL COORDINATE ALL DIMENSIONS W/ APPROVED MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO SUBMITTING STRUCTURAL STEEL SHOP DRAWINGS, FABRICATION AND ERECTION.

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1798

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SEAL:

DOUGLAS R. CAHILL
061675

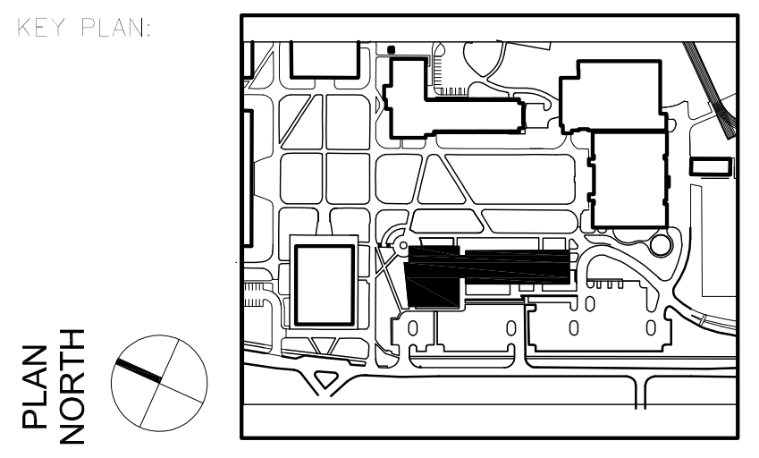
Douglas R. Cahill, PE
NYS Professional Engineer No. 61675
Expiration Date 3/31/2026

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COOLING TOWER–
ENCLOSURE AND
SUPPORT STRUCTURE
SECTIONS AND DETAILS

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE: AS NOTED

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