

FOUNDATION PLAN

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

NOTES

- DATUM FOR ALL ELEVATIONS SHOWN ON PLAN IS TOP OF SLAB ELEVATION UNLESS OTHERWISE NOTED. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
- TOP OF SLAB IS UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
- TOP OF ALL CONCRETE WALLS IS +1'-0" UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
- TOP OF ALL CONCRETE SHELF NOTED. THIS IS ON PLAN.
- SLAB ON GRADE SHALL BE 8" THICK W/ 66-W2.1X W2.1 WWF OVER VAPOR BARRIER AND 6" OF CRUSHED STONE.
- ALL CONCRETE BUTTRESSES SHALL BE 2'-0" X 2'-0" W/ 8-#7 VERTICAL AND 3-#3 TIES AT 3' OC TOP AND AT 12" OC BOTTOM OF ALL FOOTINGS IS (-5'-0") UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
- "F1.5" DENOTES BUTTRESS 1'-0" X 1'-0" W/ 4-#7 VERTICAL AND 3-#3 TIES AT 3' OC TOP AND AT 12" OC BOTTOM OF ALL FOOTINGS IS (-5'-0") UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
- FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS OTHERWISE NOTED ON PLAN.
- BOTTOM OF FOOTING IS FOR ESTIMATION PURPOSES ONLY. ACTUAL ELEVATION TO BE ADJUSTED IN THE FIELD.
- PROVIDE CONTINUOUS FOOTING UNDER ALL CMU WALLS - SEE DETAIL. SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATION.
- PRIOR TO START OF WORK CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES THAT COULD AFFECT THE INDICATED WORK.

MINIMUM CONCRETE COVER FOR STEEL REINFORCEMENT, IN.

CONCRETE CAST AGAINST EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER	2
#6 AND LARGER	1 1/2
#5 AND SMALLER	1 1/2
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
SLABS, WALLS & JOISTS (#11 AND SMALLER)	3/4
BEAMS AND COLUMNS	1 1/2

FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING EACH WAY
F 3.5	3'-6" X 3'-6"	1'-0"	4- #5 BOTTOM
F 4.5	4'-6" X 4'-6"	1'-0"	4- #5 BOTTOM
F 5.0	5'-0" X 5'-0"	1'-0"	6- #5 BOTTOM
F 6.0	6'-0" X 6'-0"	1'-4"	6- #6 BOTTOM
F 6.5	6'-6" X 6'-6"	1'-4"	7- #6 BOTTOM
F 7.0	7'-0" X 7'-0"	1'-6"	7- #6 BOTTOM

NOTE: FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS OTHERWISE NOTED ON PLAN

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909

DRAWING TITLE
FOUNDATION PLAN

DATE
12-09-2024
03-05-2024
11-29-2023
08-31-2023

ISSUED TO
S.D. SUBMISSION
D.D. SUBMISSION
S.E.D. SUBMISSION
BID

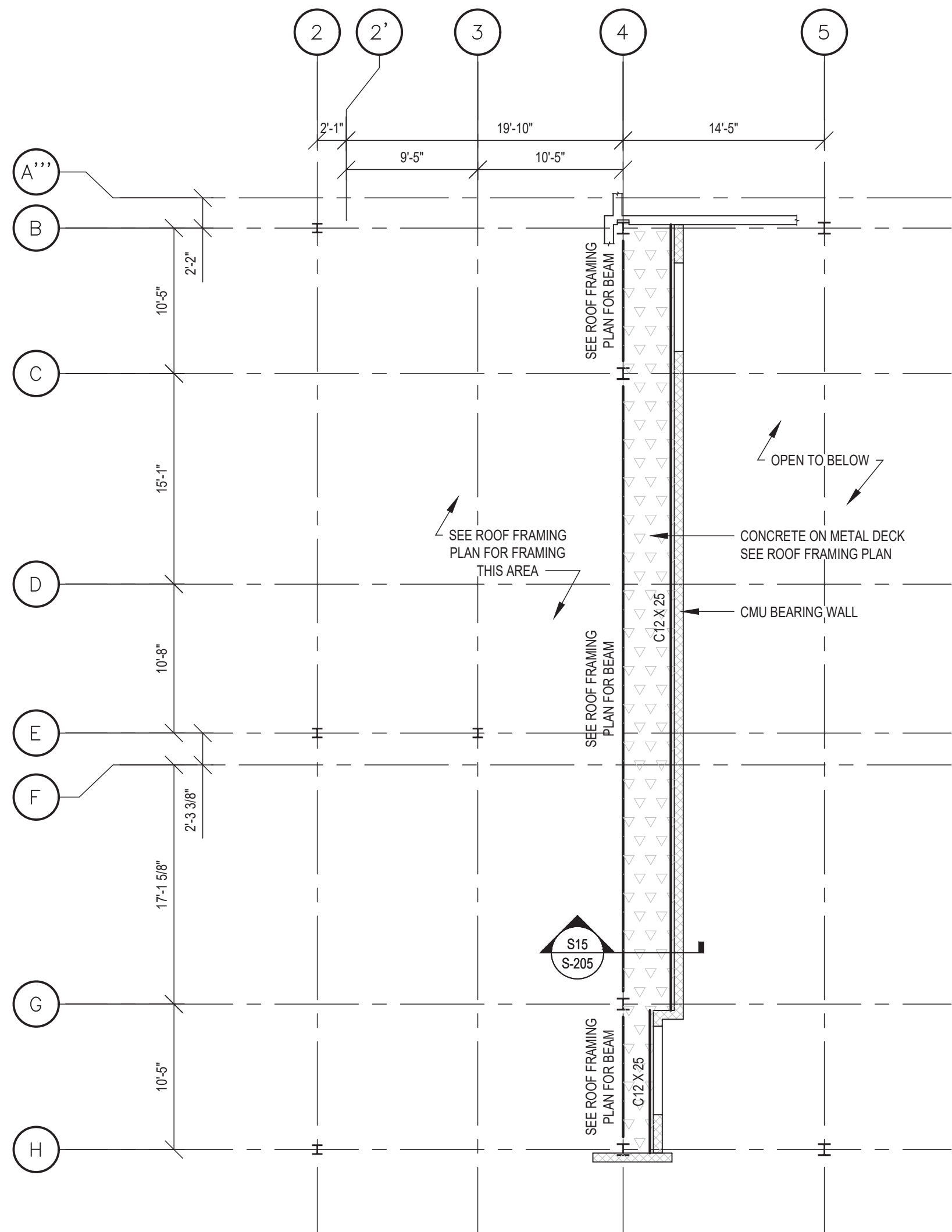
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SCALE
AS NOTED

DRAWN BY
F & D

FILE NO.
23505.02

PROJECT # 23041

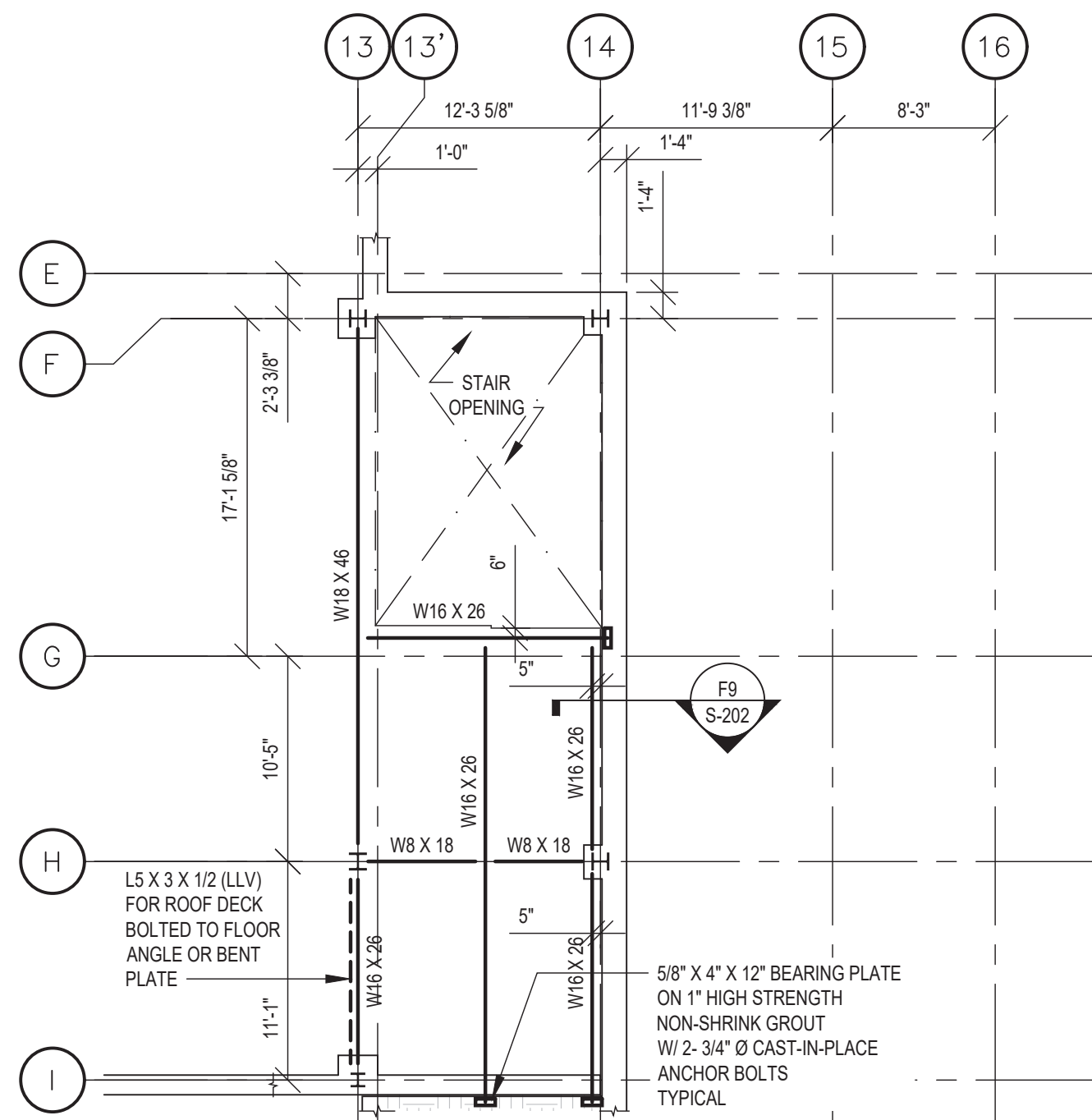


PARTIAL FIRST FLOOR FRAMING PLAN

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

NOTES:

- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS TOP OF FLOOR SLAB AT ELEVATION ±0. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
- TOP OF ALL CONCRETE SLABS IS [±0] UNLESS OTHERWISE NOTED THUS [±0] ON PLAN.
- SEE ROOF FRAMING PLAN FOR FLOOR SLAB.
- TOP OF ALL STRUCTURAL STEEL BEAMS IS (±0'-6") UNLESS OTHERWISE NOTED THUS (±0'-6") ON PLAN.



PARTIAL FIRST FLOOR FRAMING PLAN

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

NOTES:

- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS TOP OF FLOOR SLAB AT ELEVATION ±0. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
- TOP OF ALL CONCRETE SLABS IS [±0] UNLESS OTHERWISE NOTED THUS [±0] ON PLAN.
- TOP OF ALL STRUCTURAL STEEL BEAMS IS (±0'-5") UNLESS OTHERWISE NOTED THUS (±0'-5") ON PLAN.
- FLOOR SLAB TO BE 4" TOTAL THICKNESS NORMAL WEIGHT CONCRETE SLAB ON 1 1/2" GALVANIZED COMPOSITE 18 GAGE VU W/ 66- W2.9 X W2.9 WWF PLACED 2 1/2" ABOVE STEEL DECK UON.

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-025

PROJECT:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909

DRAWING TITLE:
FOUNDATION PLAN

PROJECT # 23041

12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

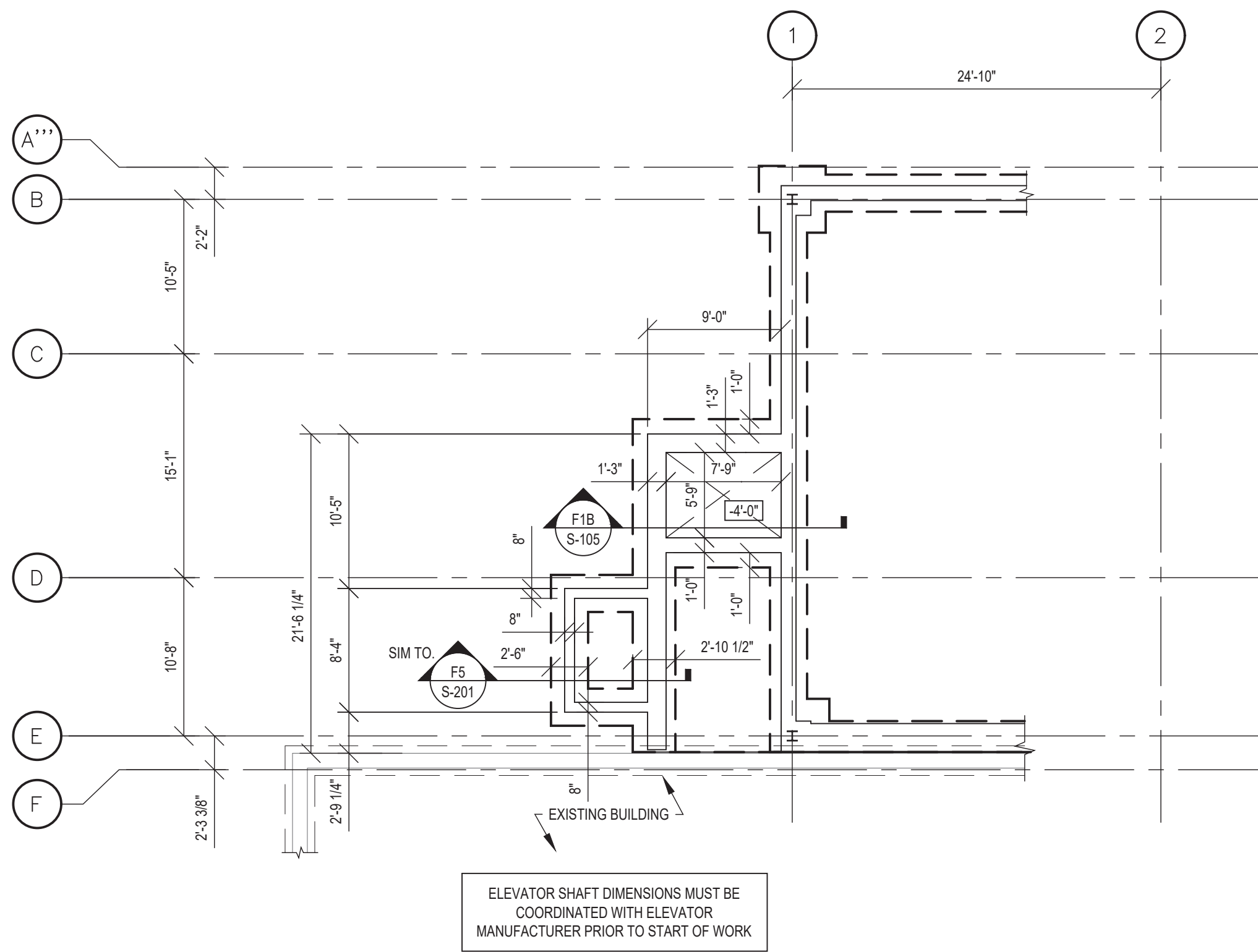
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SCALE:
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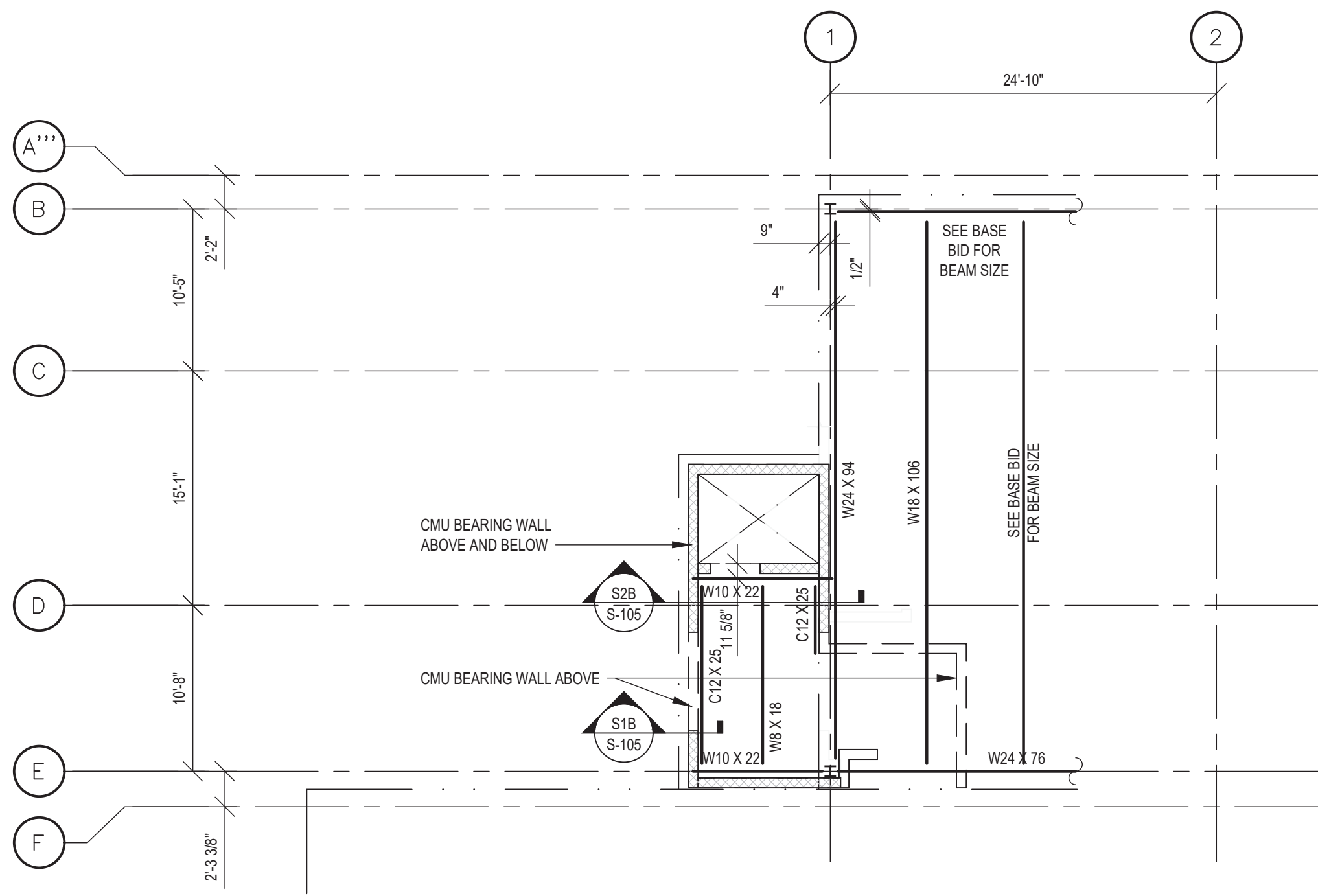
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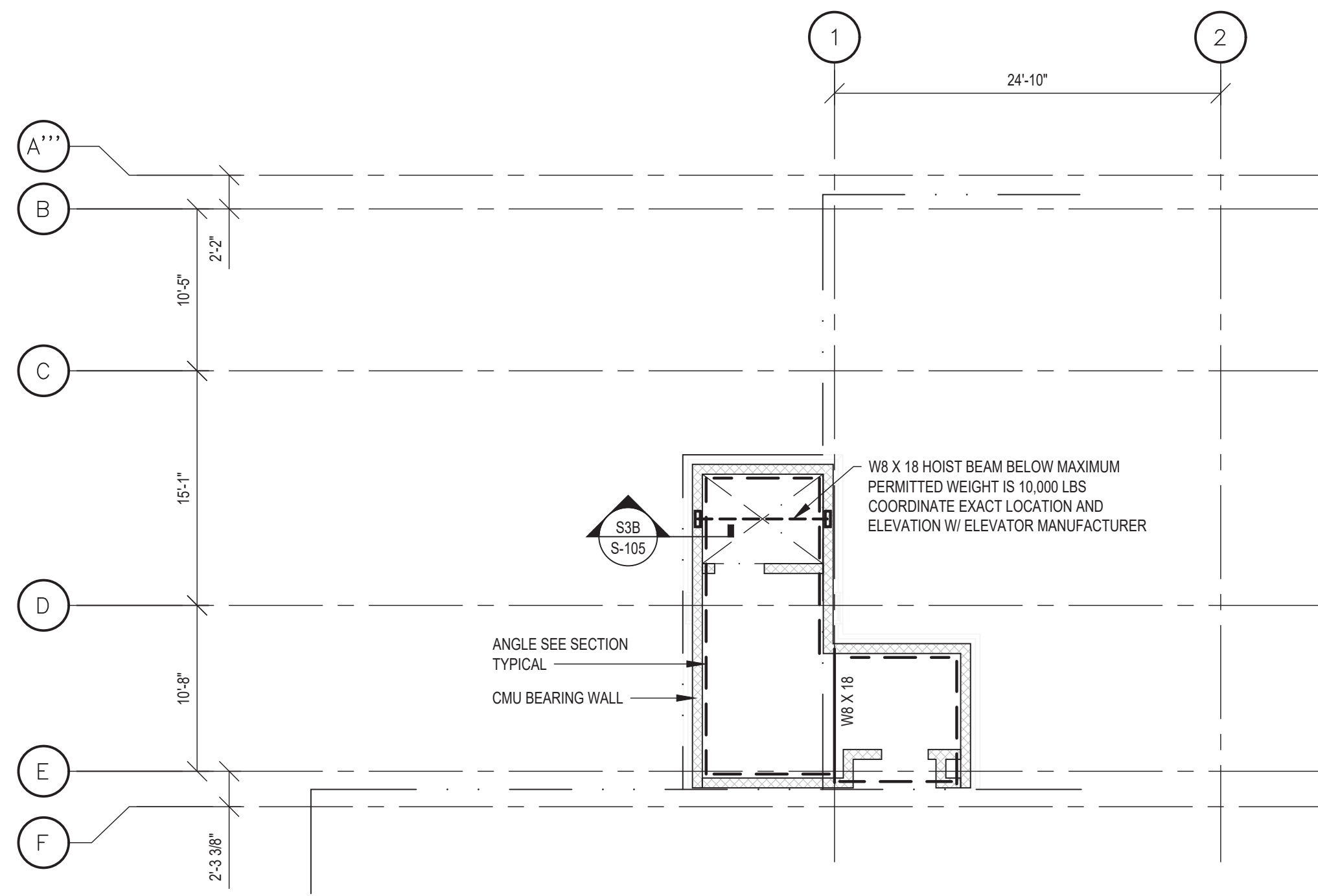
PARTIAL FOUNDATION PLAN - ALT. GC-2

- SCALE: 1/8" = 1'-0"
- NOTES:
- DATUM FOR ALL ELEVATIONS SHOWN ON PLAN IS TOP OF SLAB ELEVATION ±0.00. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
 - TOP OF SLAB IS ±0 UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
 - SLAB ON GRADE SHALL BE 8" THICK W/ 66-W2.1 WVF OVER VAPOR BARRIER AND 6" OF CRUSHED STONE.
 - BOTTOM OF ALL FOOTINGS IS (-5'-0") UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
 - TOP OF ALL CONCRETE WALLS IS ±1'-0" UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
 - FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS OTHERWISE NOTED ON PLAN.
 - BOTTOM OF FOOTING ELEVATION IS FOR ESTIMATION PURPOSES ONLY. ACTUAL ELEVATION TO BE ADJUSTED IN THE FIELD.
 - PROVIDE HAUNCH IN SLAB ON GRADE UNDER ALL CMU WALLS - SEE DETAIL. SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATION.
 - PRIOR TO START OF WORK CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES THAT COULD AFFECT THE INDICATED WORK.



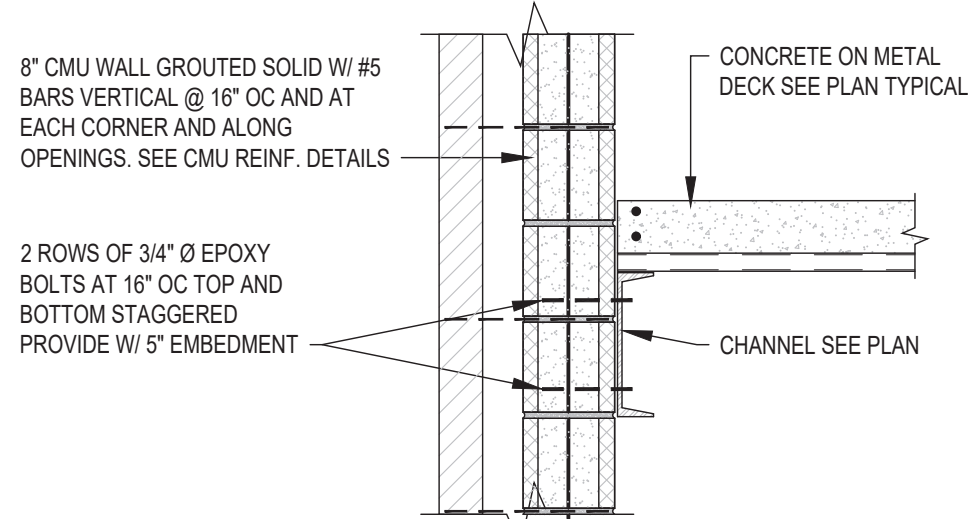
PARTIAL FIRST FLOOR FRAMING PLAN - ALT. GC-2

- SCALE: 1/8" = 1'-0"
- NOTES:
- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS TOP OF FLOOR SLAB AT ELEVATION ±0.00. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
 - TOP OF ALL CONCRETE SLABS IS ±0.00 UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
 - FLOOR SLAB SHALL BE 8" TOTAL THICKNESS NORMAL WEIGHT CONCRETE SLAB ON 1 1/2" GALVANIZED COMPOSITE 18 GAGE VLR W/ 66-W2.9 X W2.9 WVF PLACED 3 1/2" ABOVE STEEL DECK JOIN.
 - TOP OF ALL STRUCTURAL STEEL BEAMS IS (-5'-0") UNLESS OTHERWISE NOTED. THIS IS ON PLAN.



ROOF BULKHEAD FRAMING PLAN - ALT. GC-2

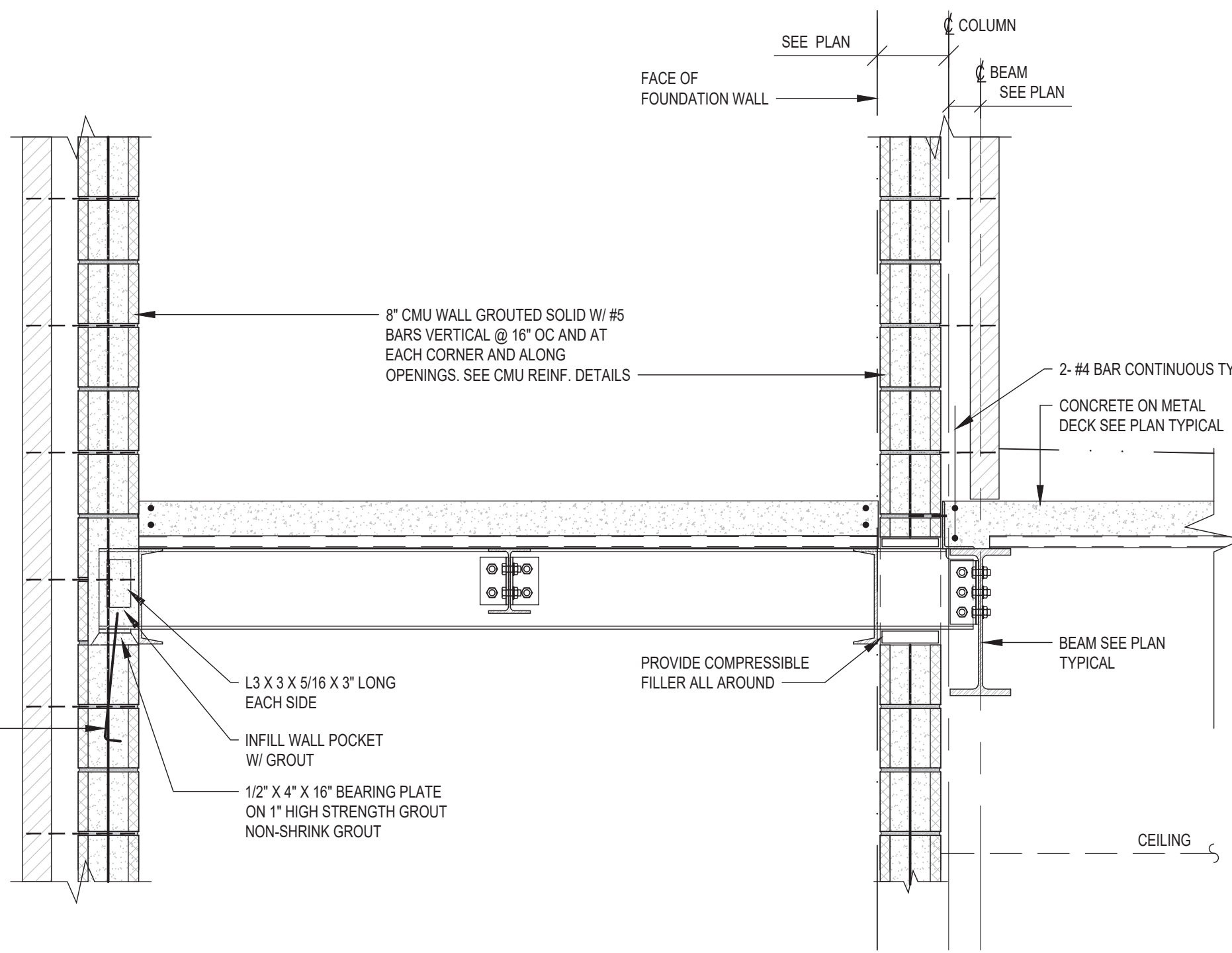
- SCALE: 1/8" = 1'-0"
- NOTES:
- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS TOP OF ROOF DECK AT ELEVATION ±0.00. FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
 - TOP OF ALL ROOF DECK IS ±0.00 UNLESS OTHERWISE NOTED. THIS IS ON PLAN.
 - ROOF DECK SHALL BE 1 1/2" DEEP GALVANIZED 18 GAGE MINIMUM TYPE "B".
 - TOP OF ALL STRUCTURAL STEEL BEAMS IS (-5'-0") UNLESS OTHERWISE NOTED. THIS IS ON PLAN.



SECTION S1B

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

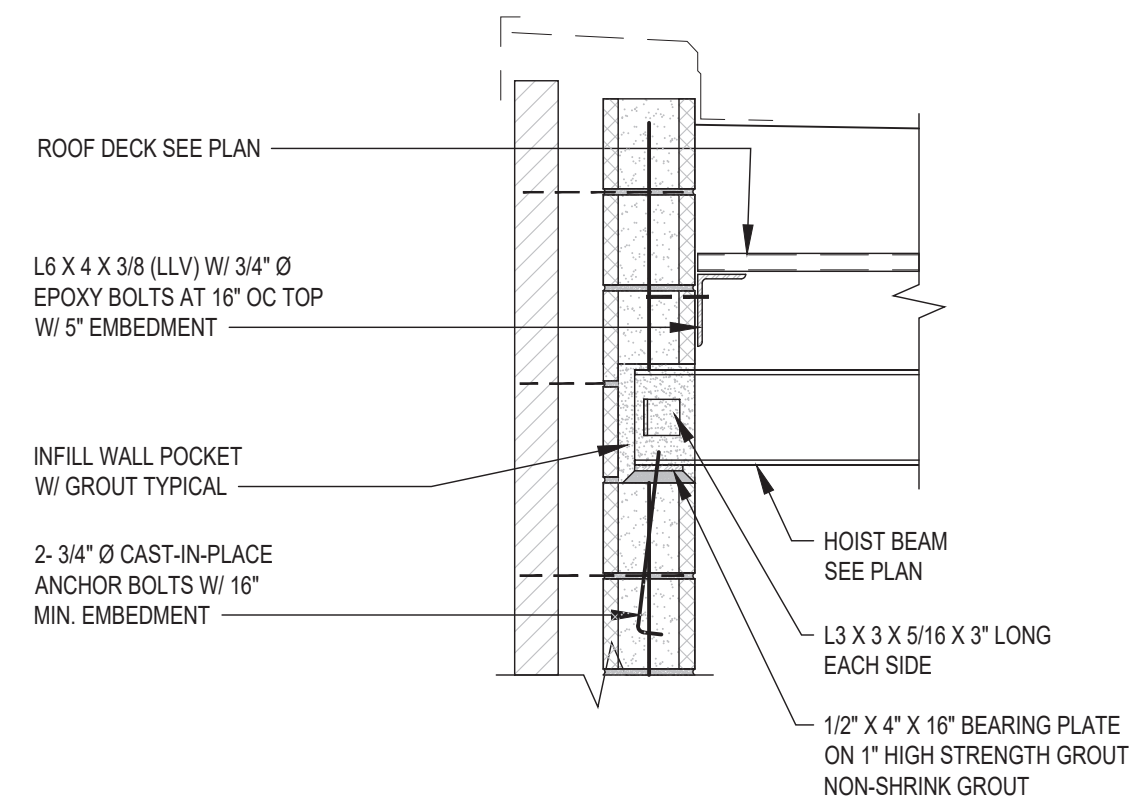
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SECTION S2B

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

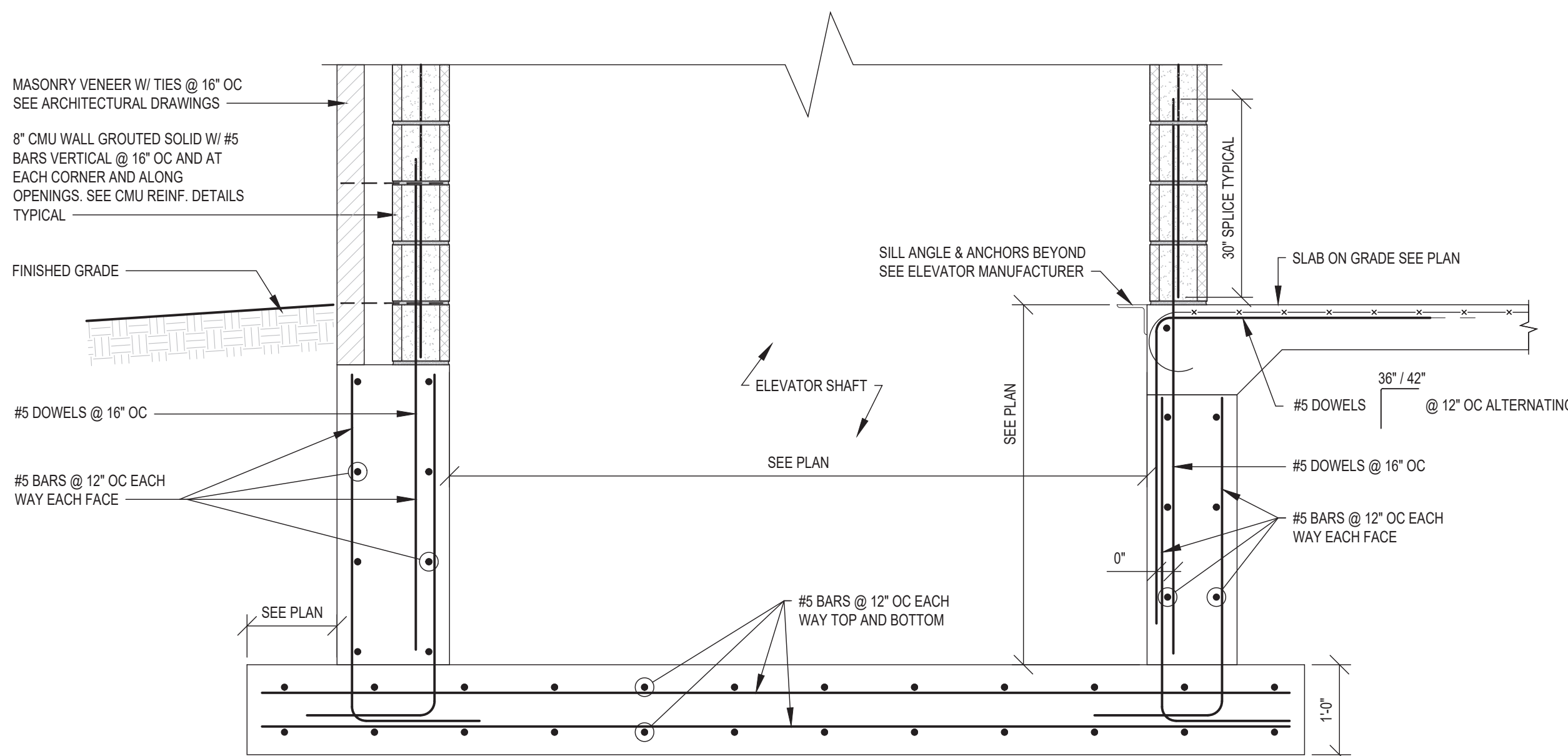
SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION S3B

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

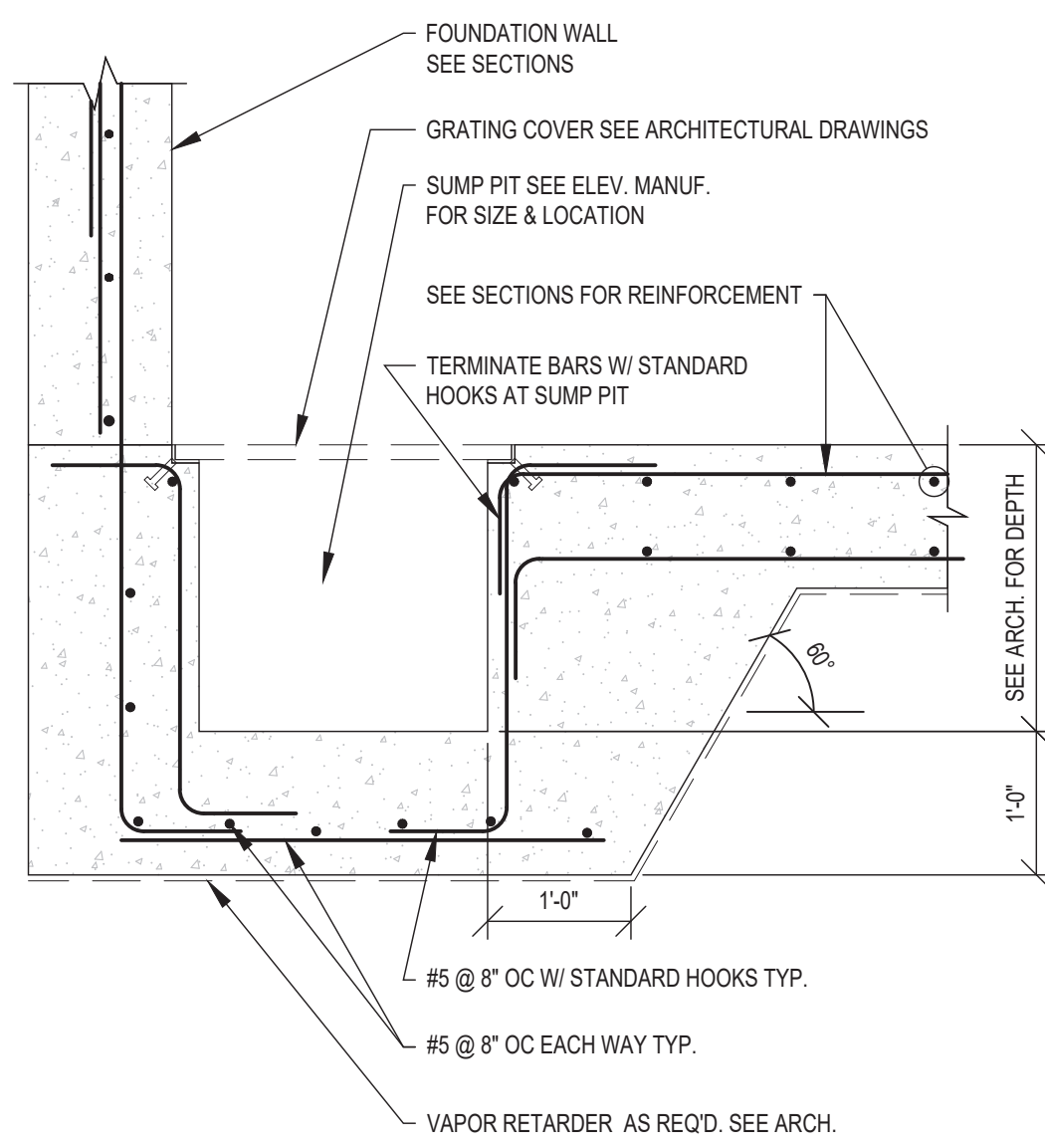
SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION F1B

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

SEE SECTION F1 FOR INFORMATION NOT SHOWN



ELEVATOR SUMP PIT DETAIL

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

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD, BREWSTER, NY 10999

DRAWING TITLE:
ALTERNATE GC-2
FRAMING PLANS AND DETAILS

PROJECT # 2-2041

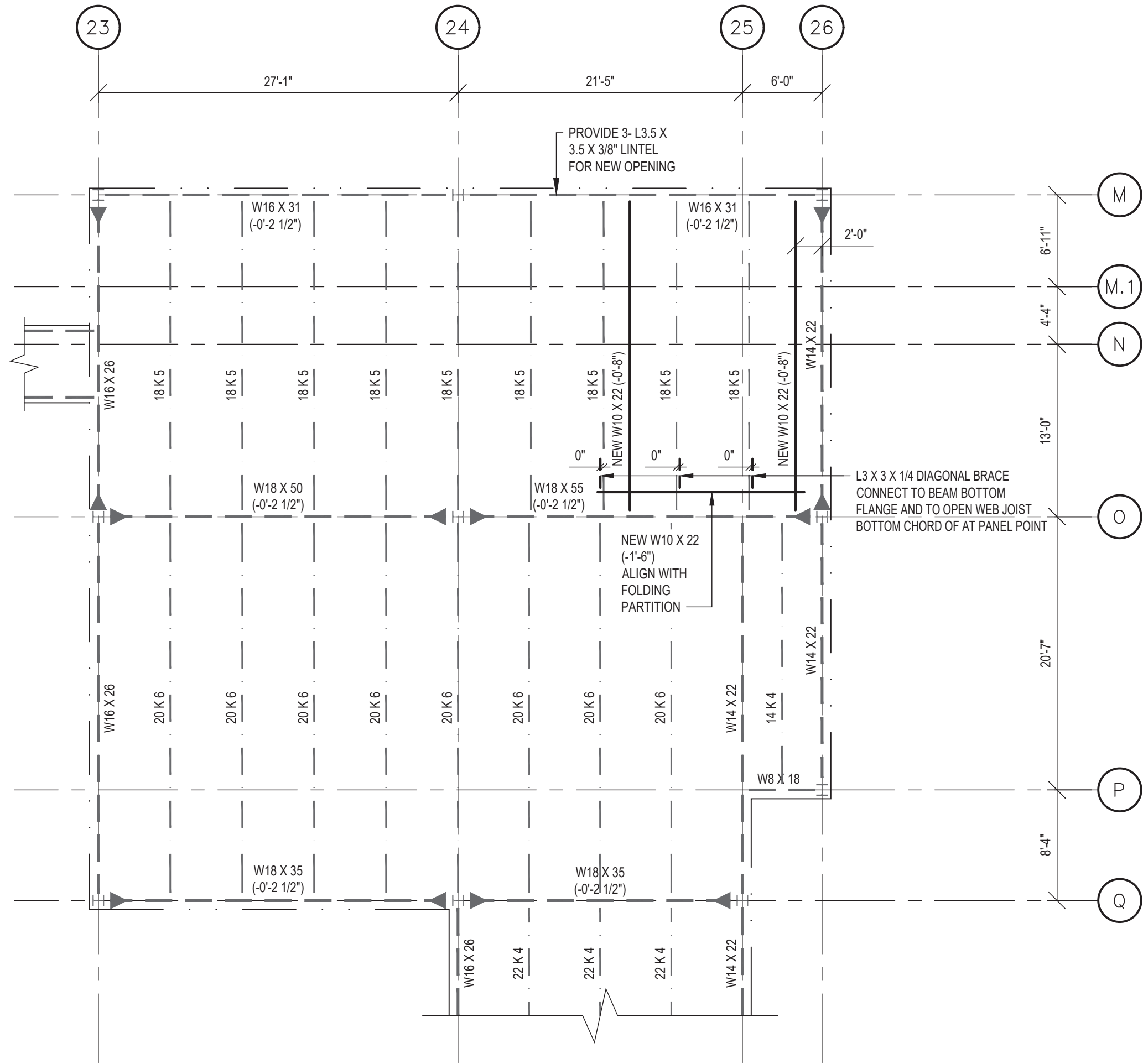
12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE:
30"x42"

SCALE:
AS NOTED

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FILE NO.:
23505.02

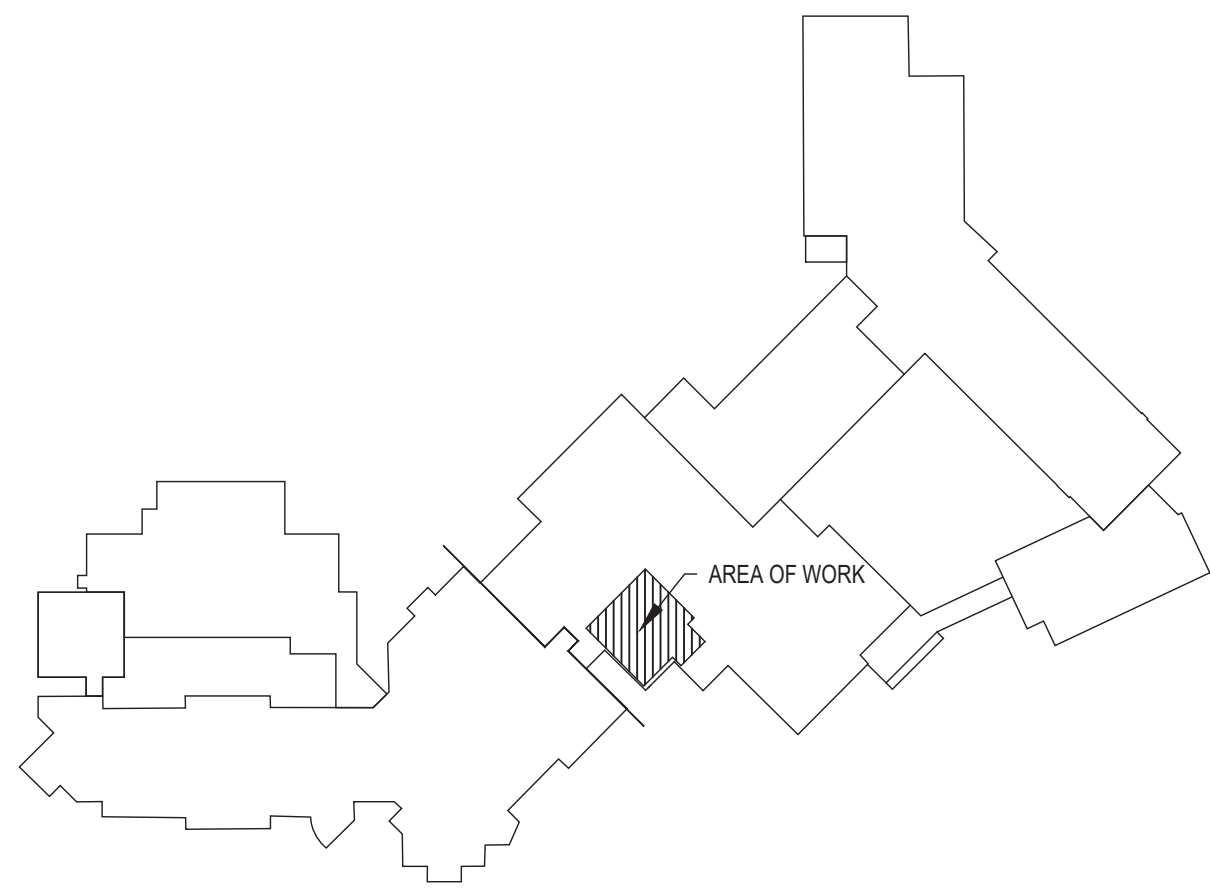


PARTIAL ROOF FRAMING PLAN

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

NOTES:

1. CONTRACTOR SHALL VERIFY ALL BEAM SIZES, GEOMETRY AND LOCATIONS PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
2. ALL STRUCTURAL STEEL SHOWN ON PLAN IS EXISTING UNLESS OTHERWISE NOTED AS NEW.
3. DATUM FOR ALL STEEL ELEVATIONS GIVEN ON THIS PLAN IS BOTTOM OF ROOF DECK (B) FOR ACTUAL ELEVATION SEE ARCHITECTURAL DRAWINGS.
4. TOP OF ALL STRUCTURAL STEEL BEAMS IS (+0'-0") UNLESS OTHERWISE NOTED THUS (±) ON PLAN.
5. TOP OF ALL NEW STRUCTURAL STEEL TO BE DETERMINED IN FIELD.
6. ► DENOTES MOMENT CONNECTION.



KEYPLAN



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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909

DRAWING TITLE:
PARTIAL ROOF FRAMING PLAN

PROJECT # 23041

12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

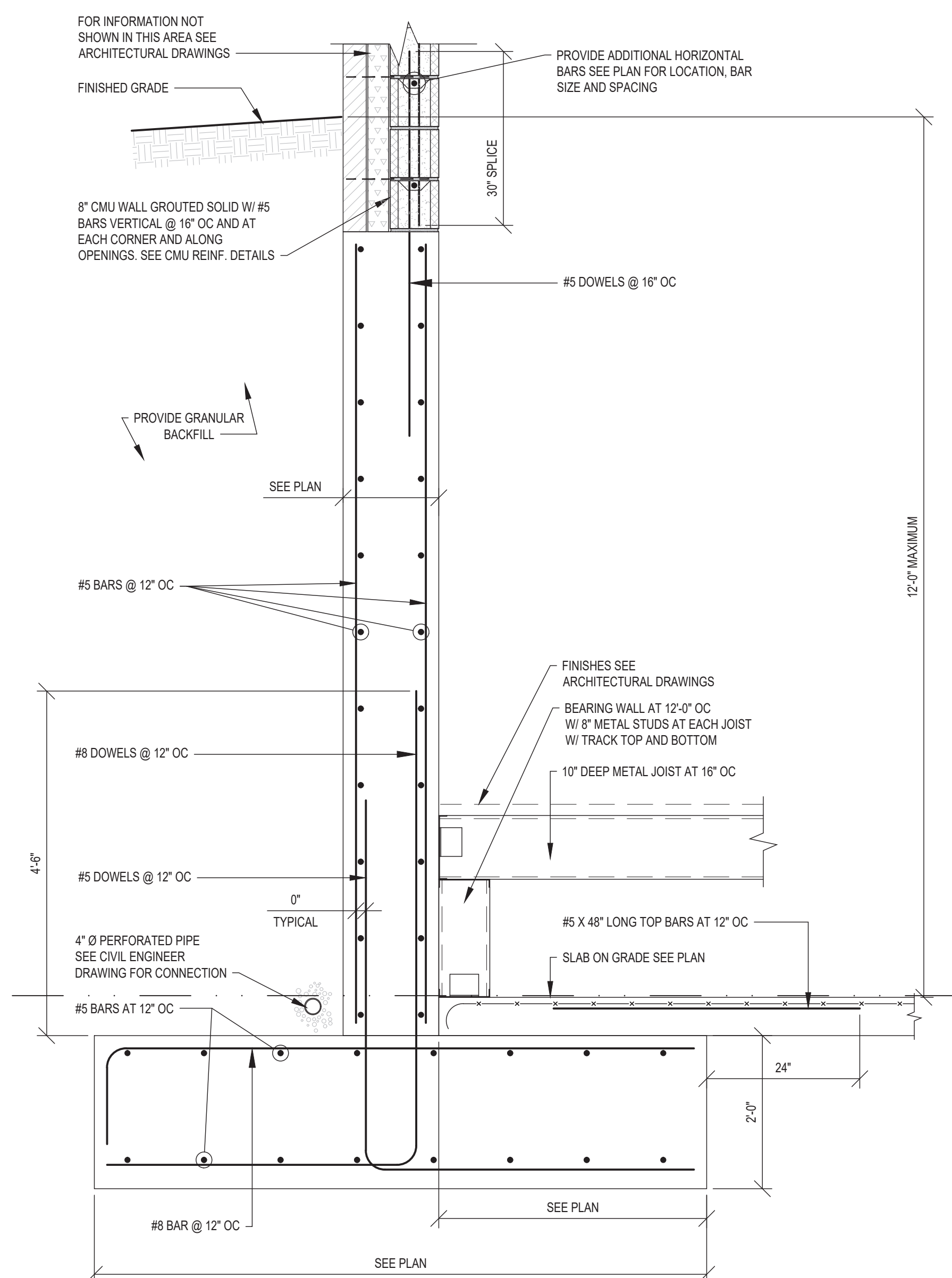
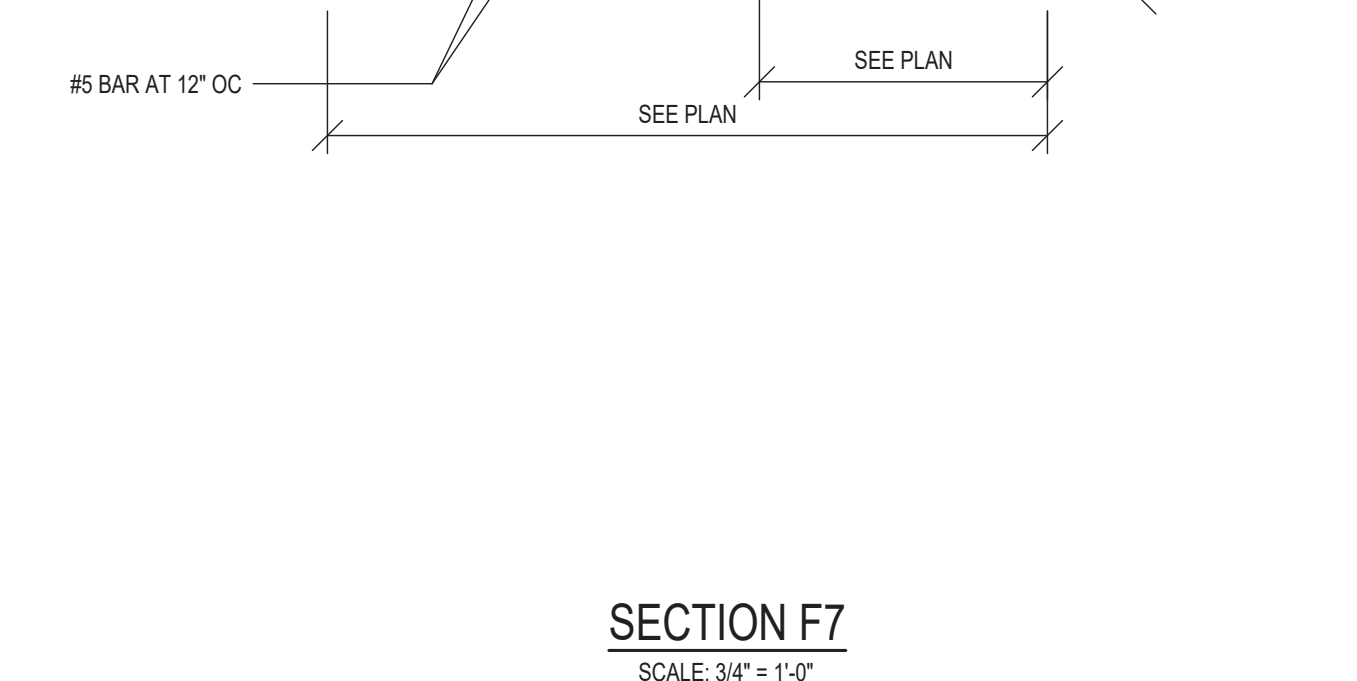
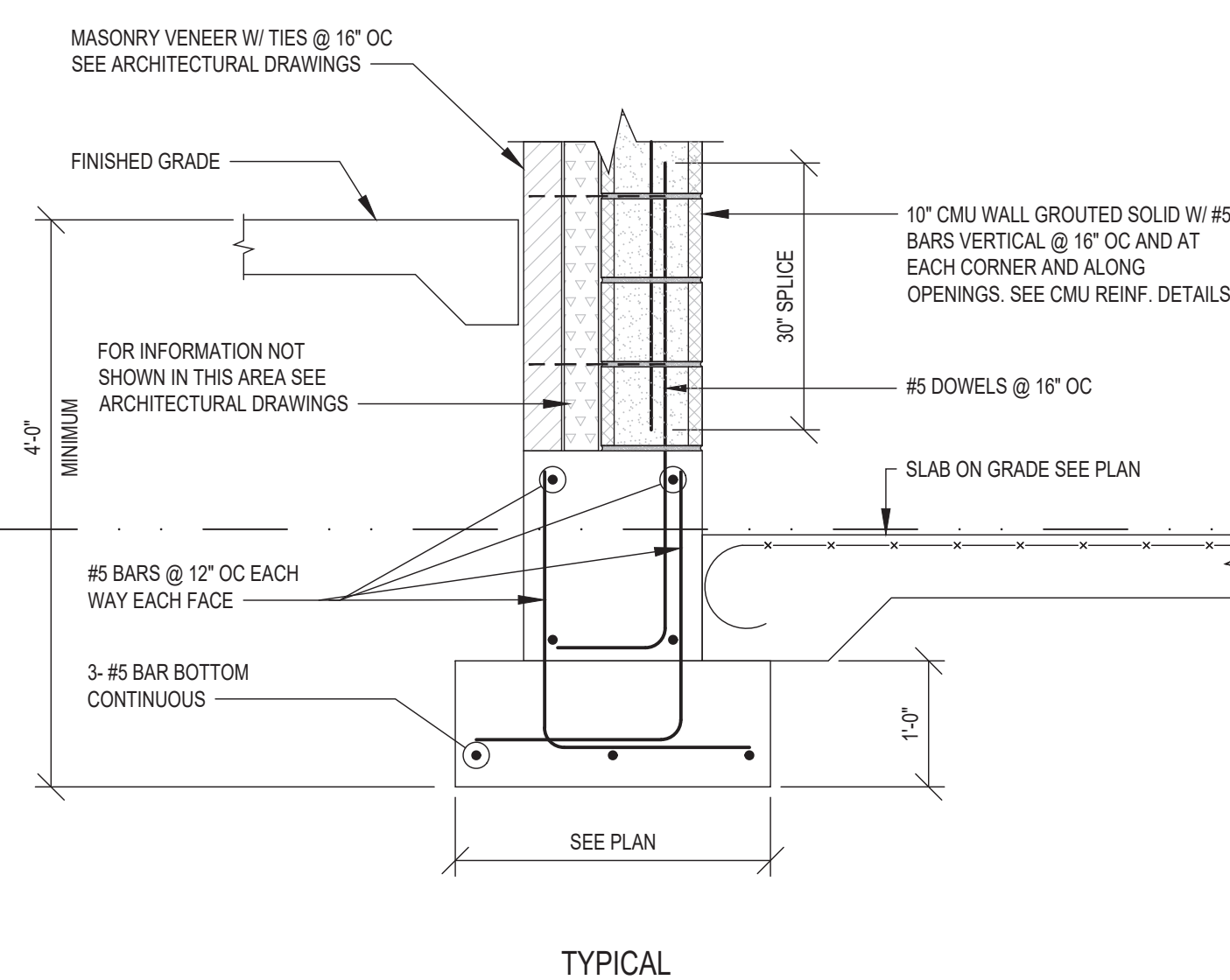
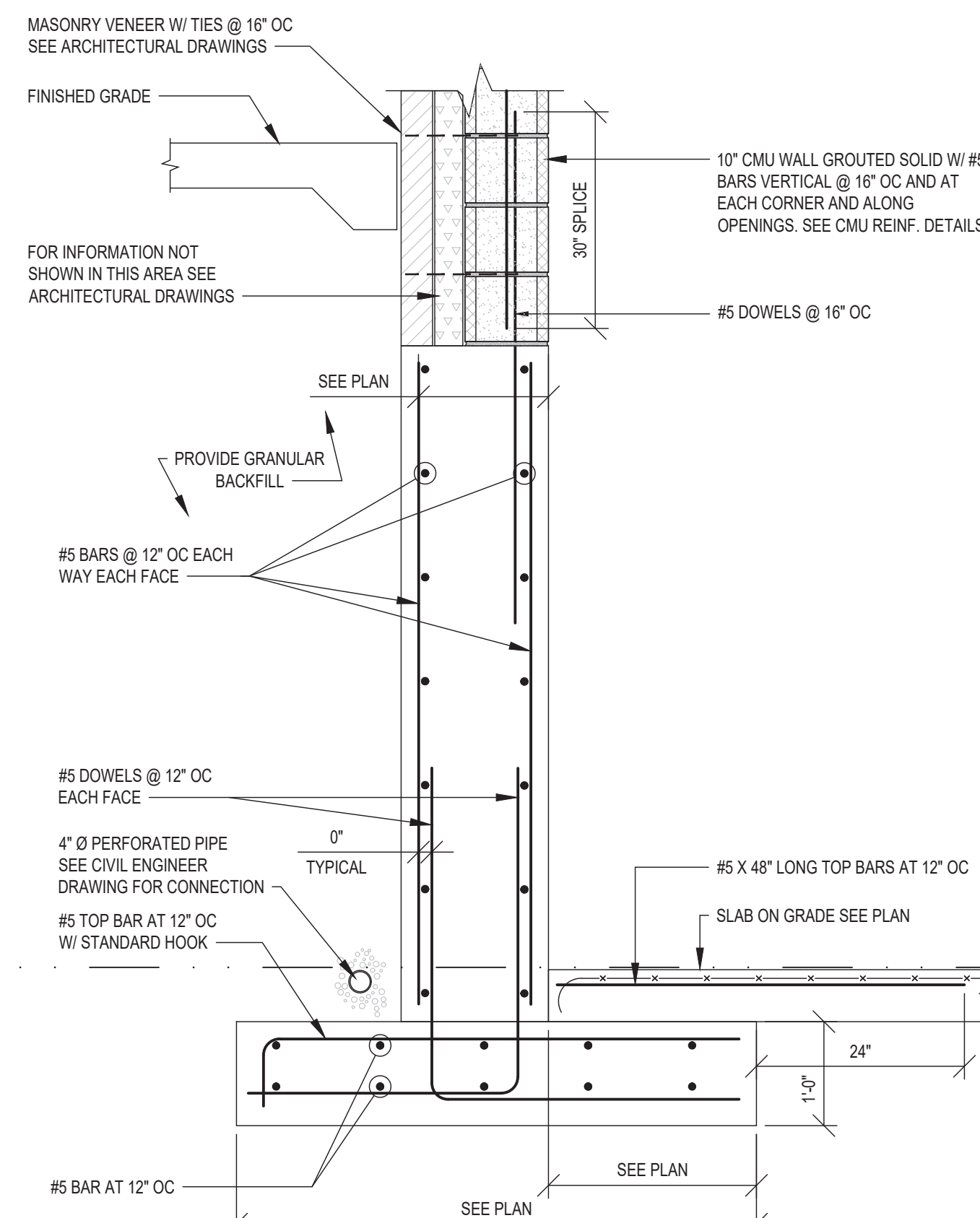
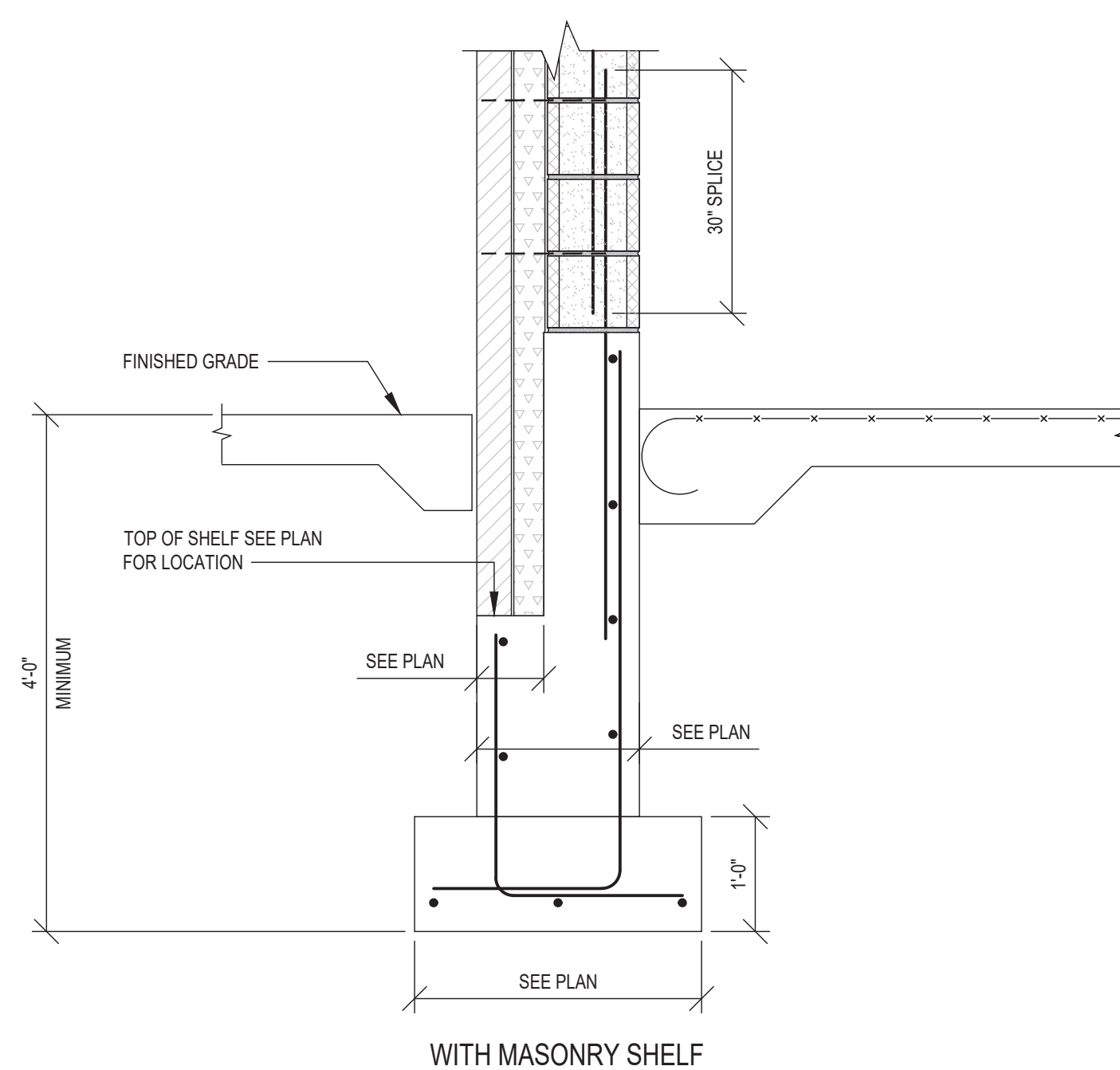
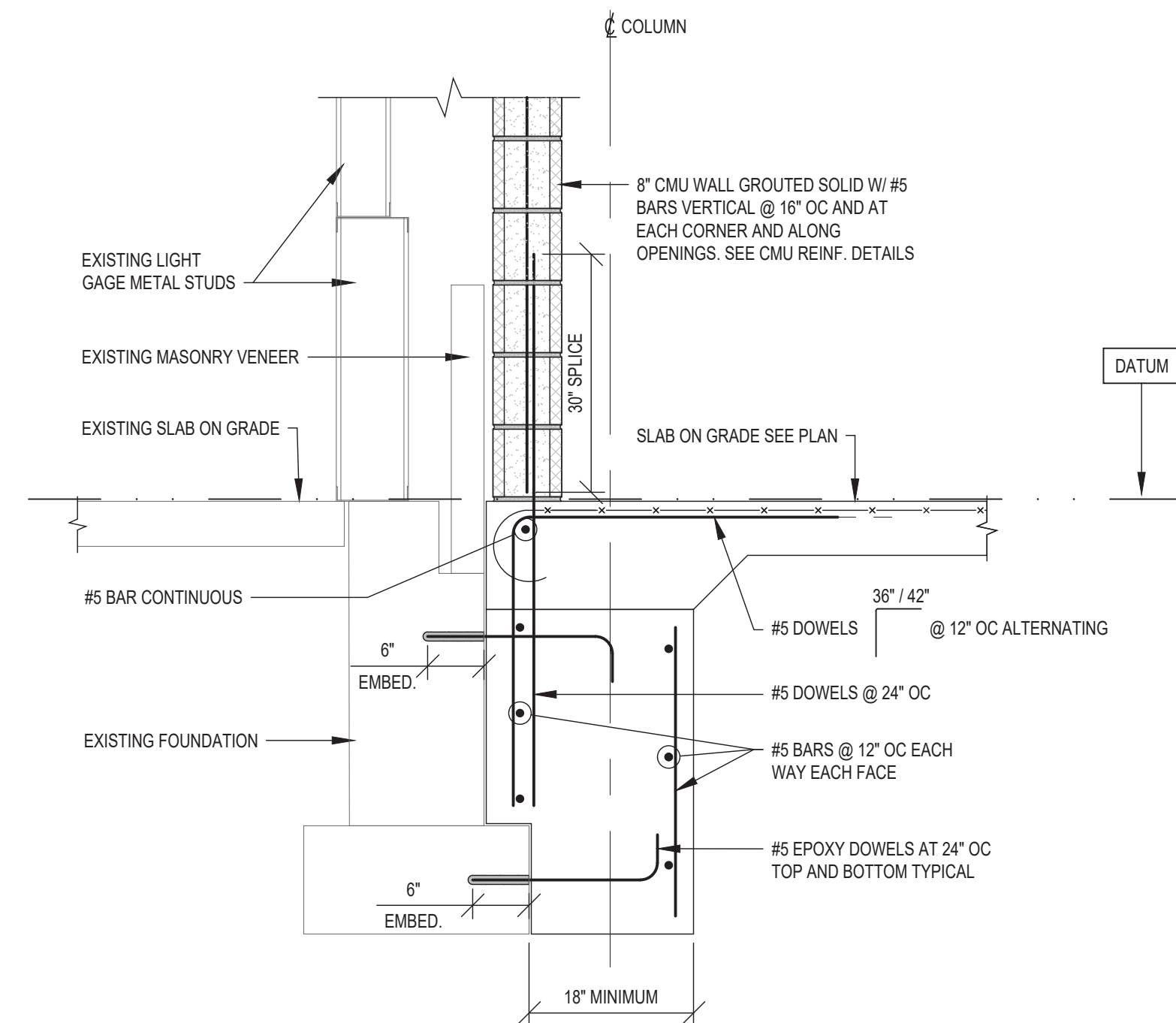
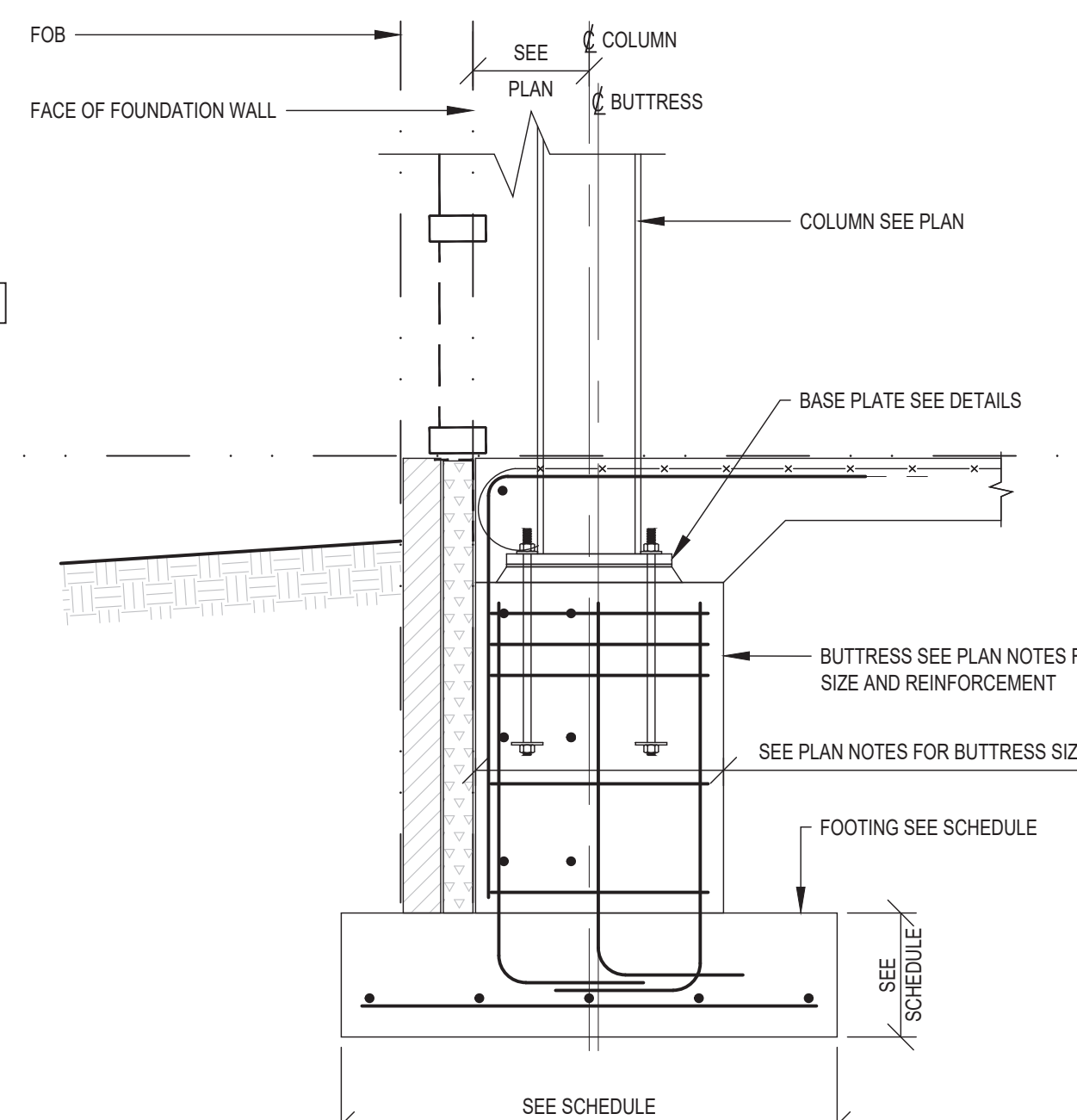
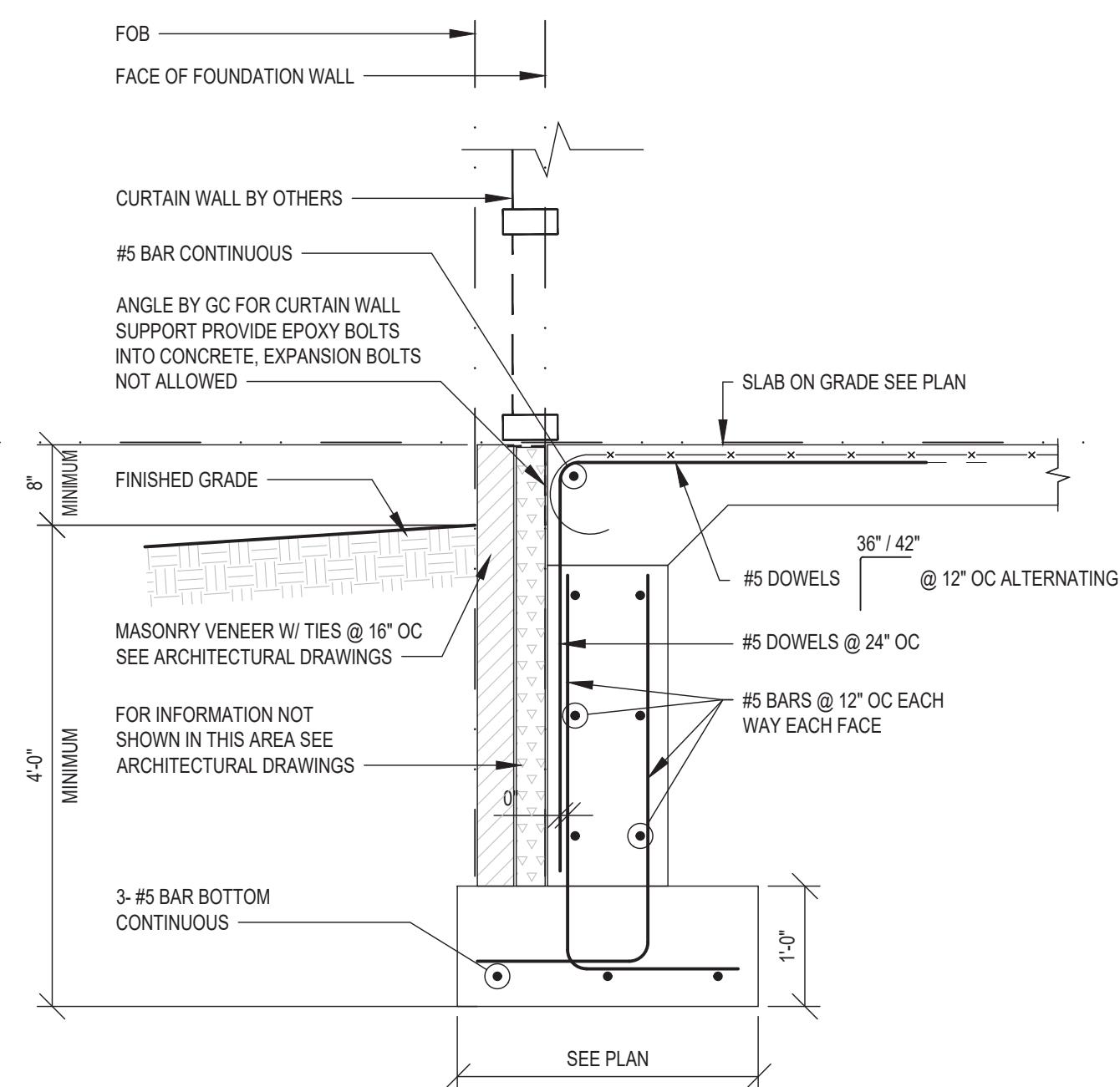
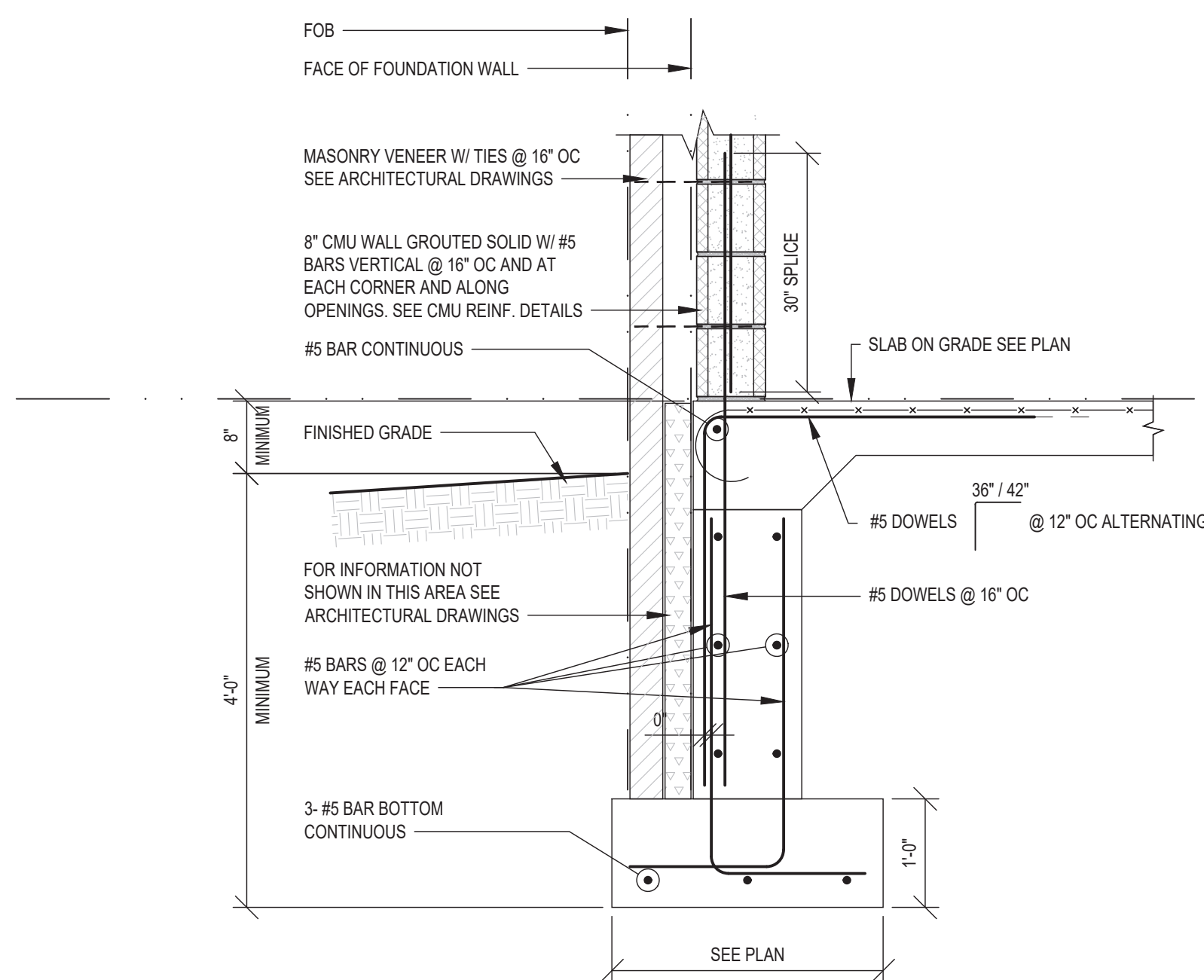
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CVS
S-106

FILE NO.:
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ARCHITECTS PLANNERS

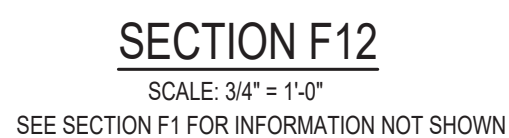
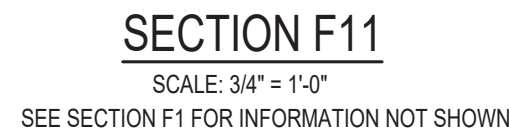
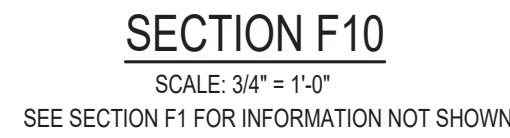
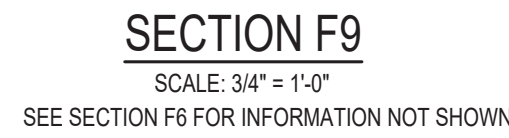
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S.E.D. CONTROL NUMBER:
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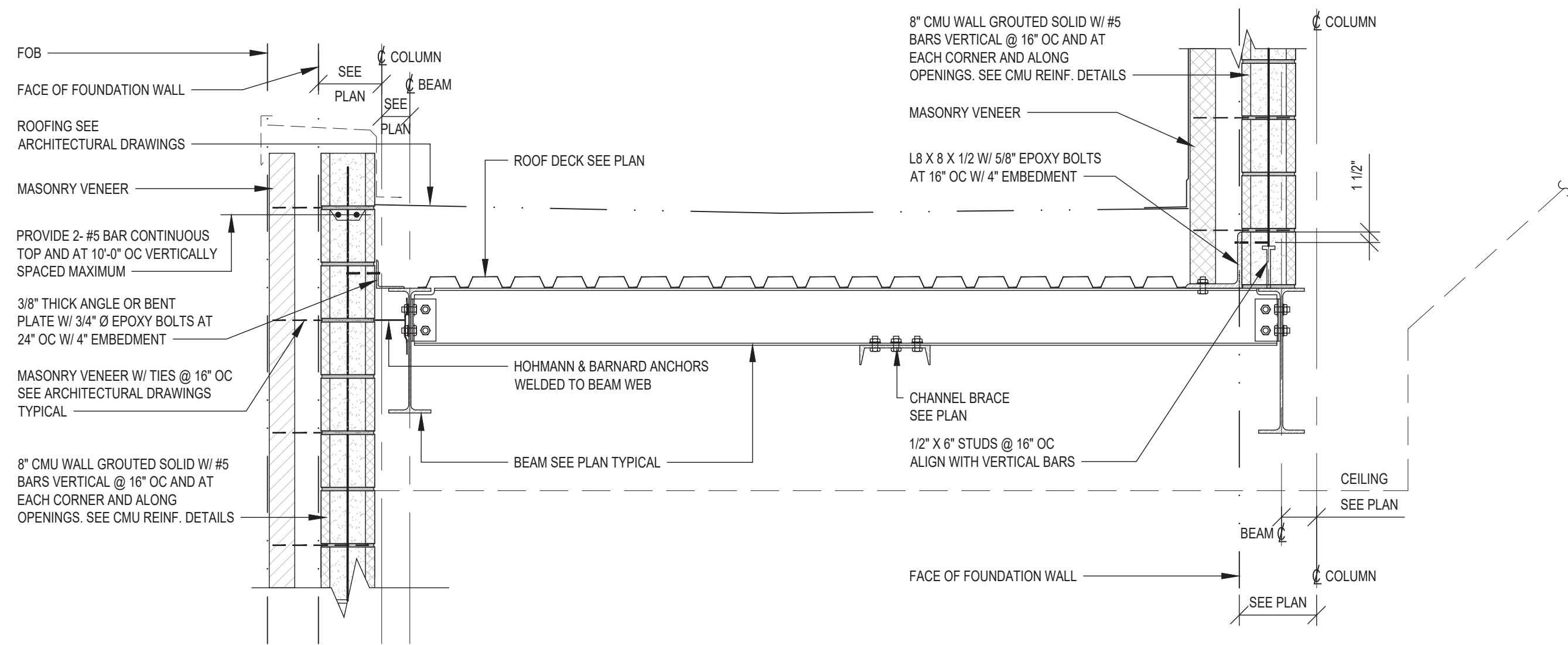
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20 FARM TO MARKET ROAD BREWSTER, NY 10909
DRAWING TITLE: DETAILS
PROJECT #: 23041

12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

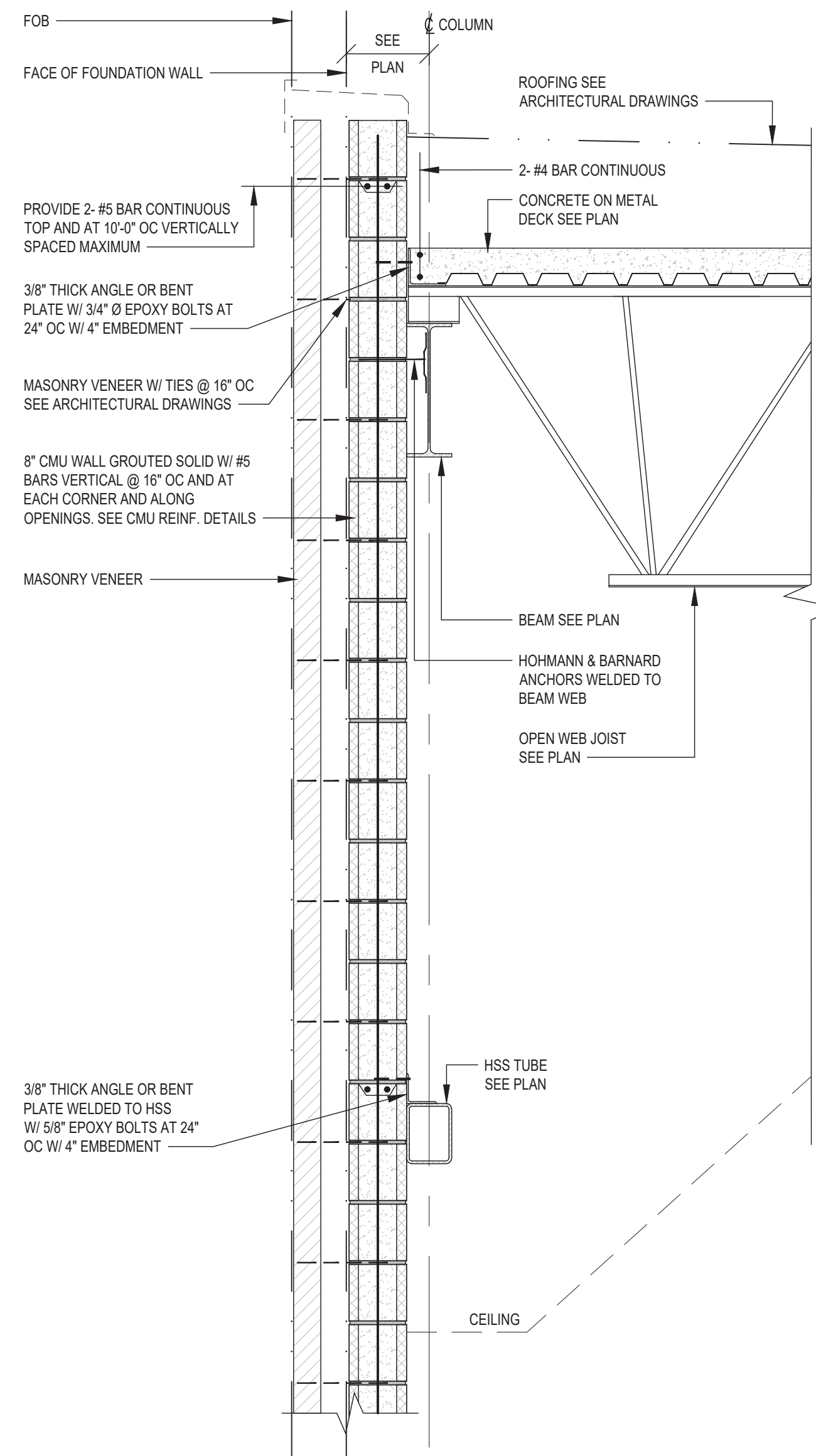
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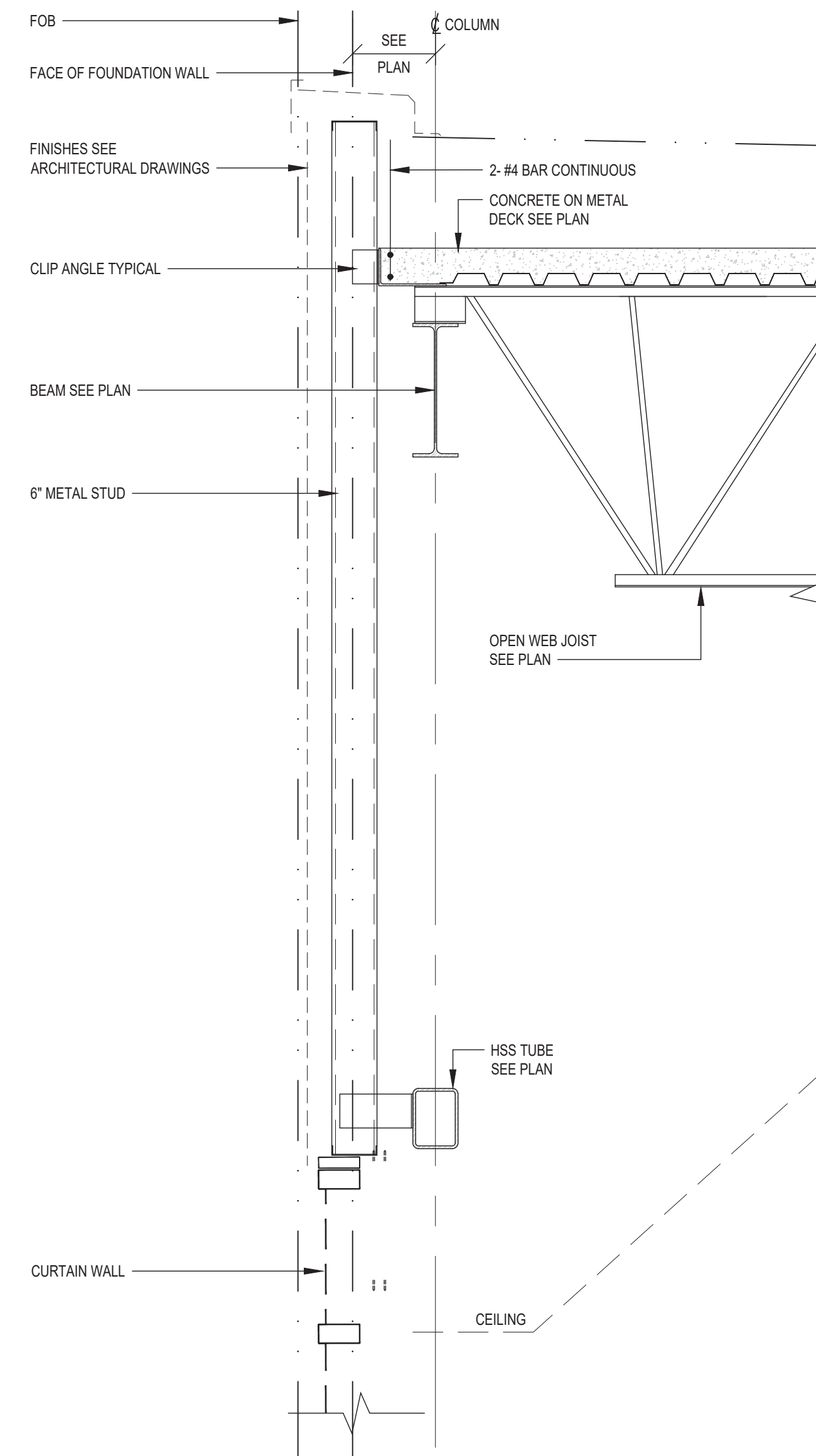
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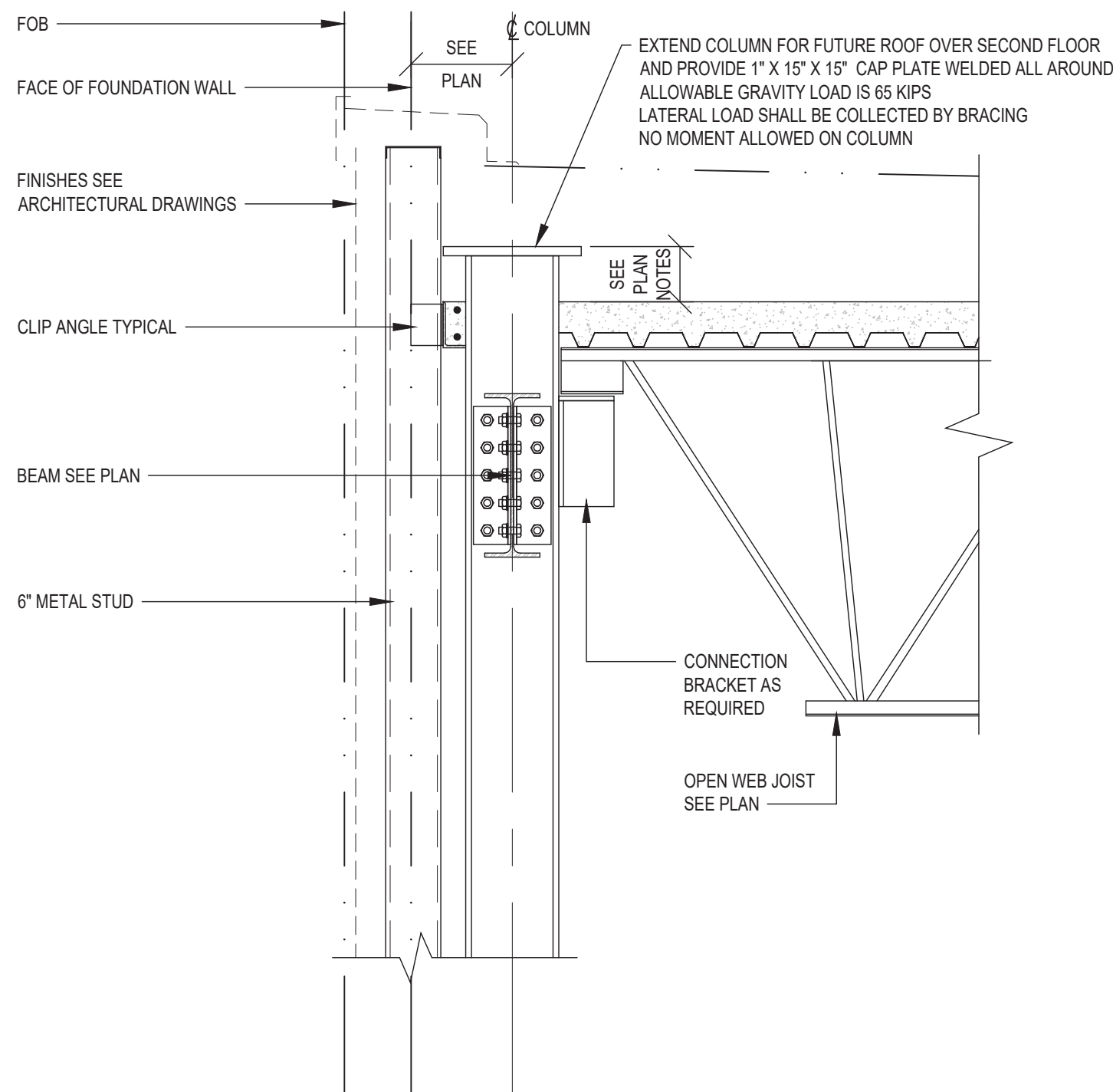


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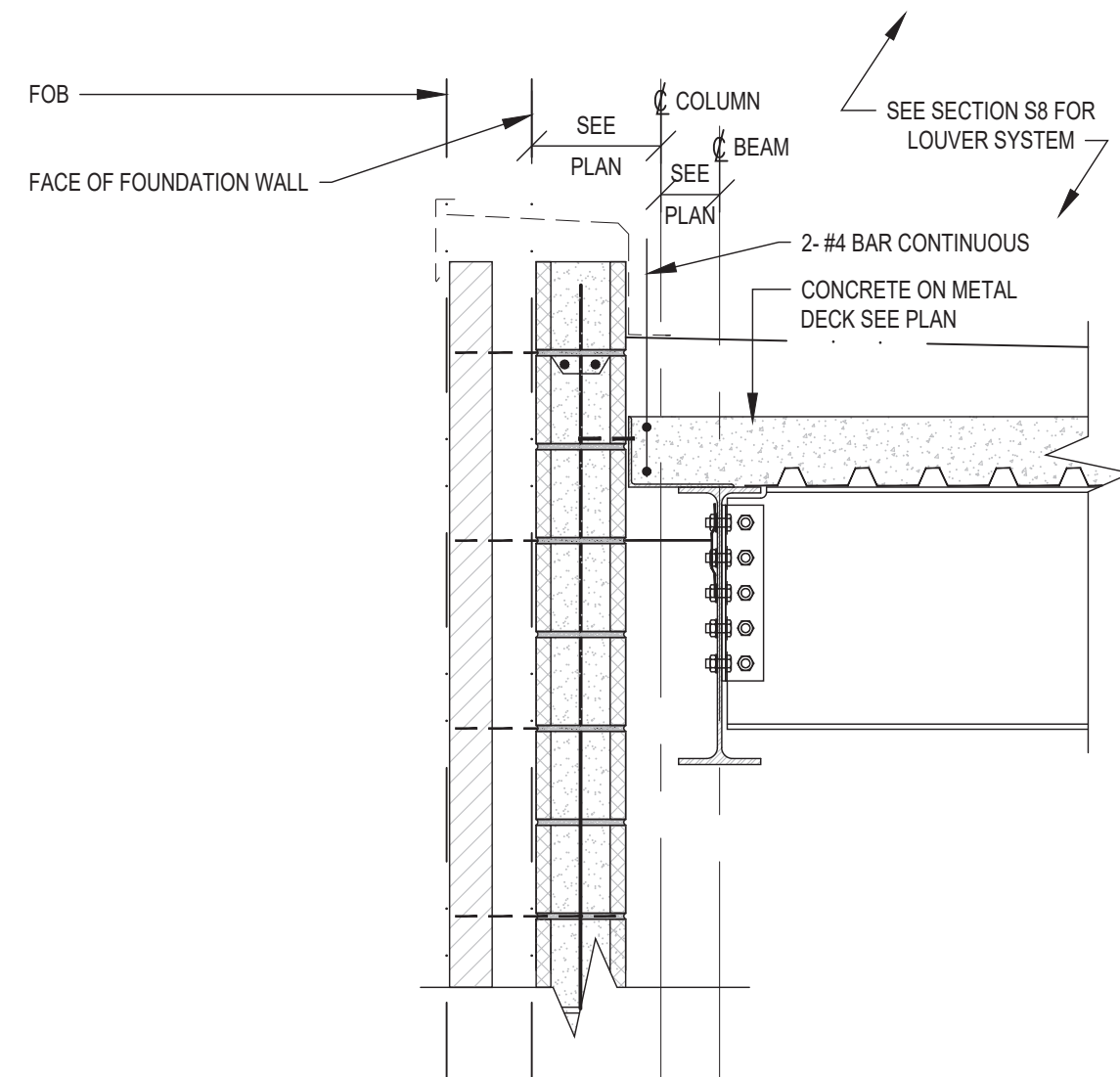
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SEE SECTION S2 FOR INFORMATION NOT SHOWN



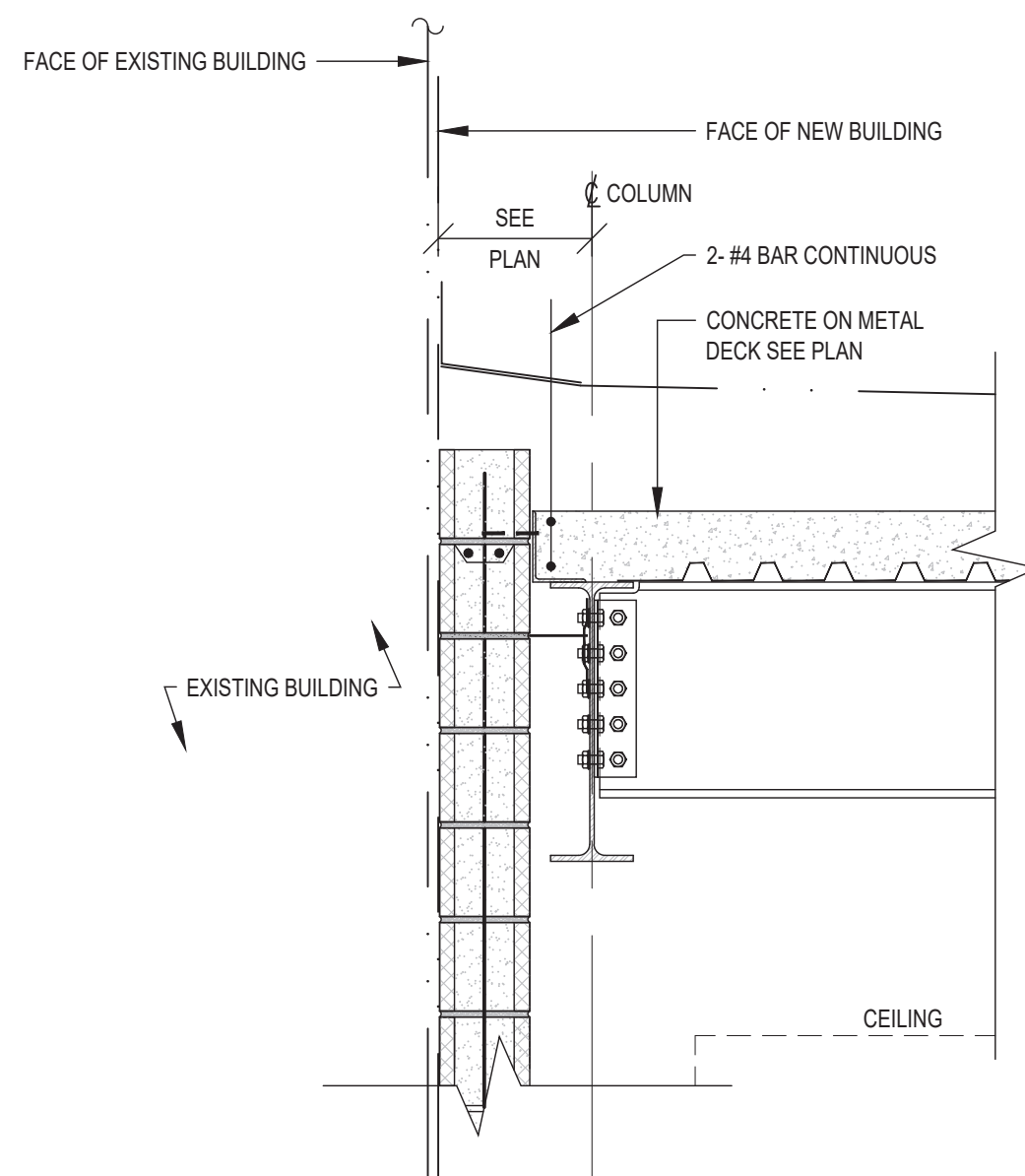
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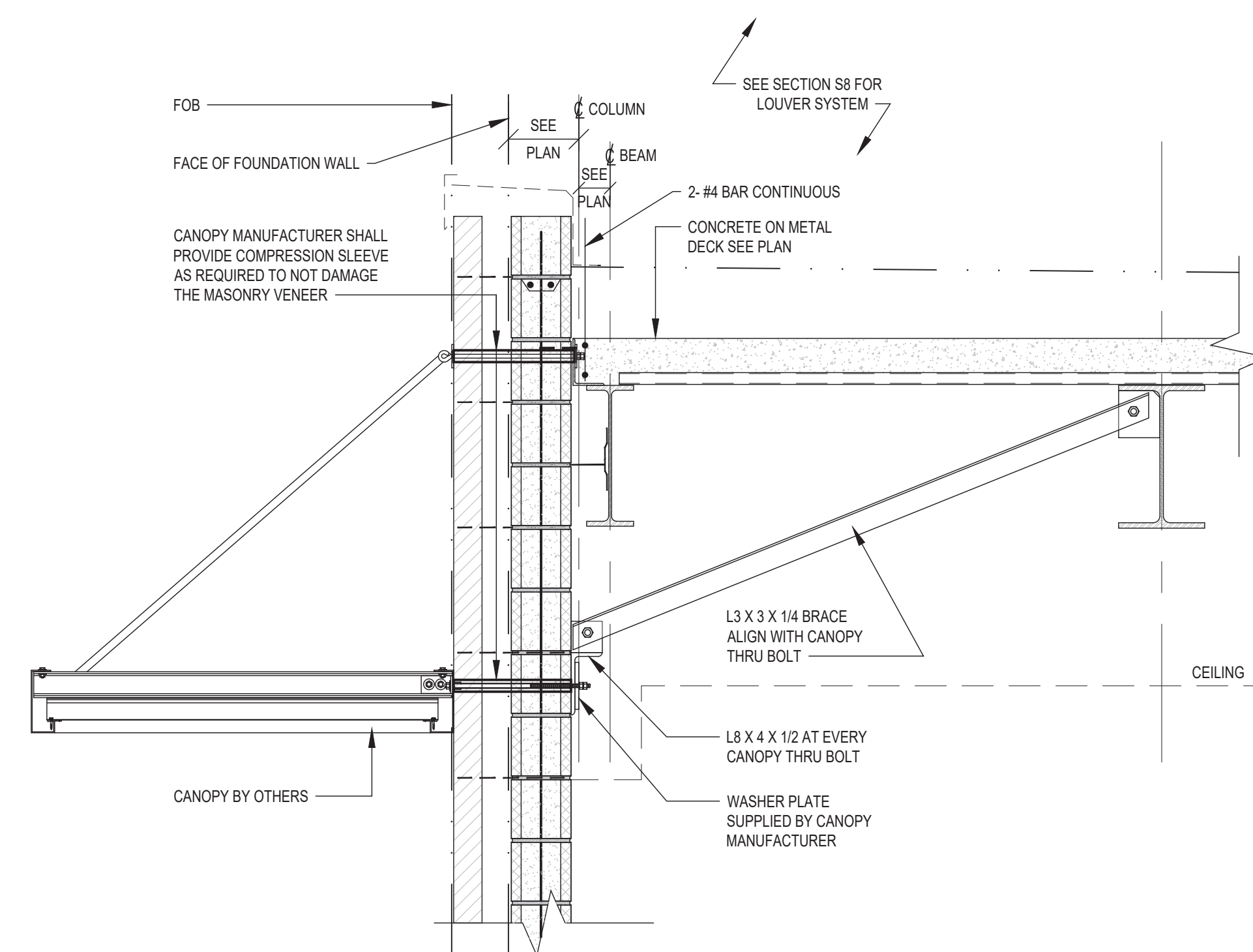
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SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION S6
SCALE: 3/4" = 1'-0"

SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION S7
SCALE: 3/4" = 1'-0"

SEE SECTION S1 FOR INFORMATION NOT SHOWN

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD, BREWSTER, NY 10909

DRAWING TITLE
DETAILS

PROJECT # 22041

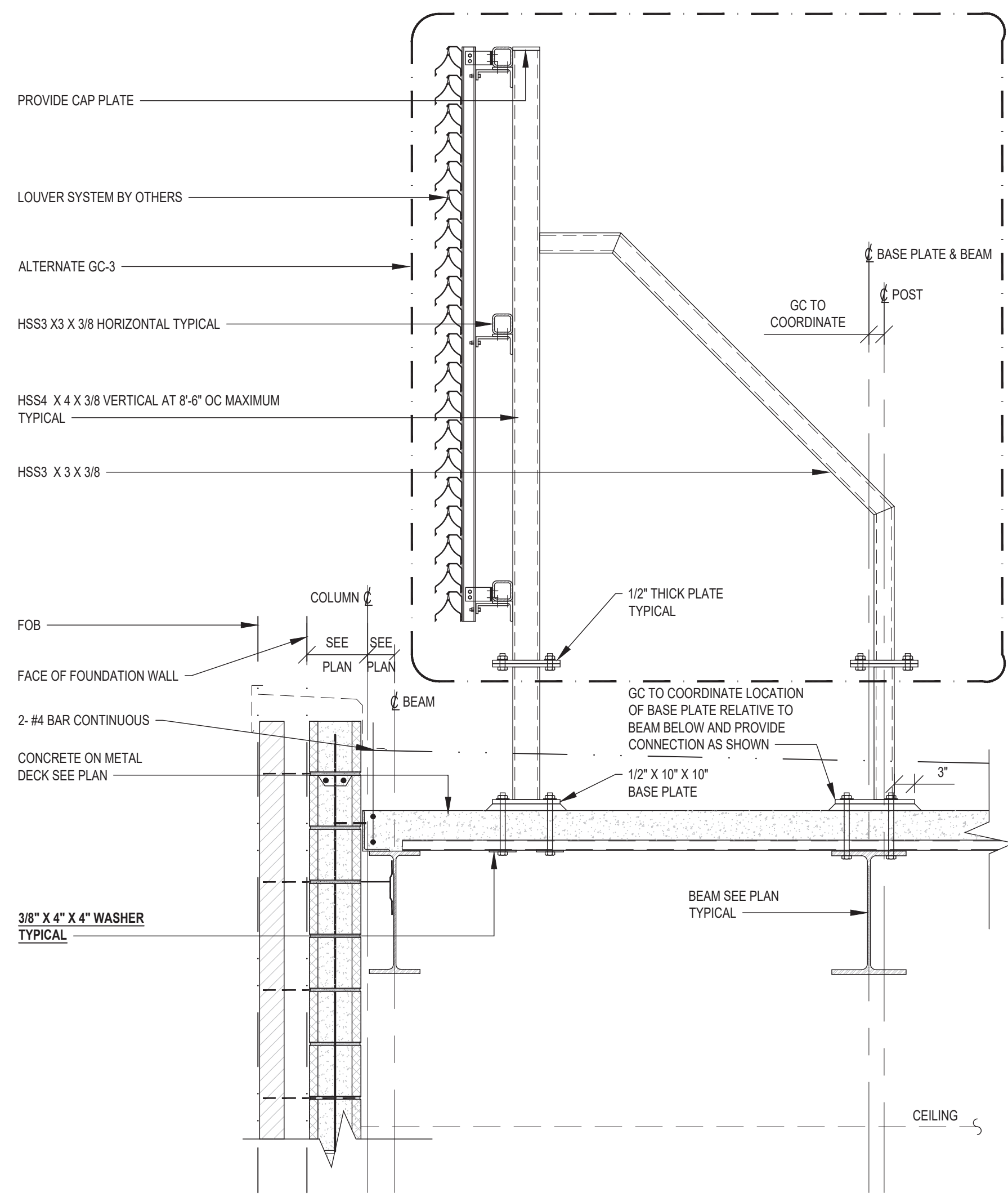
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03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE
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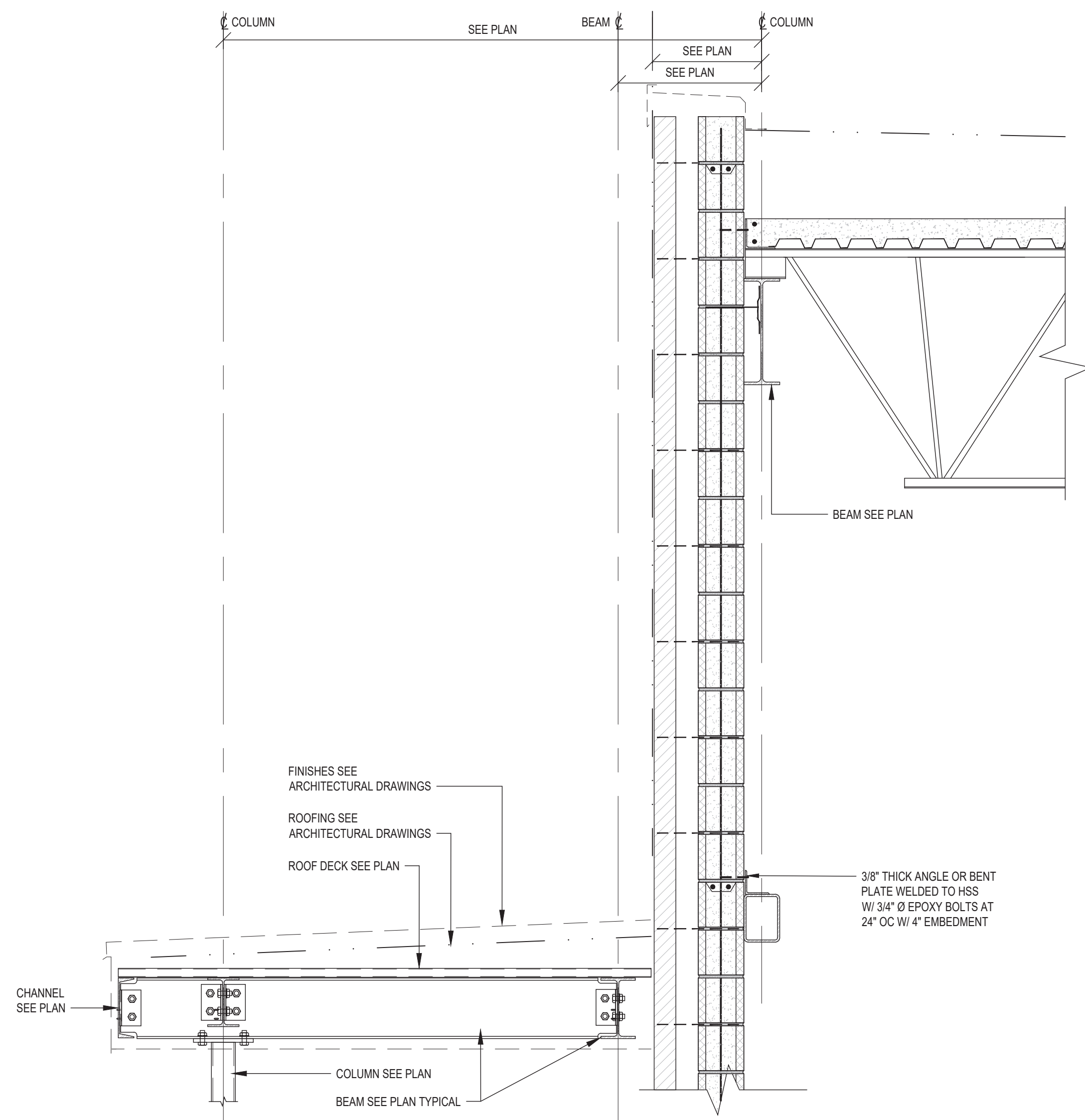
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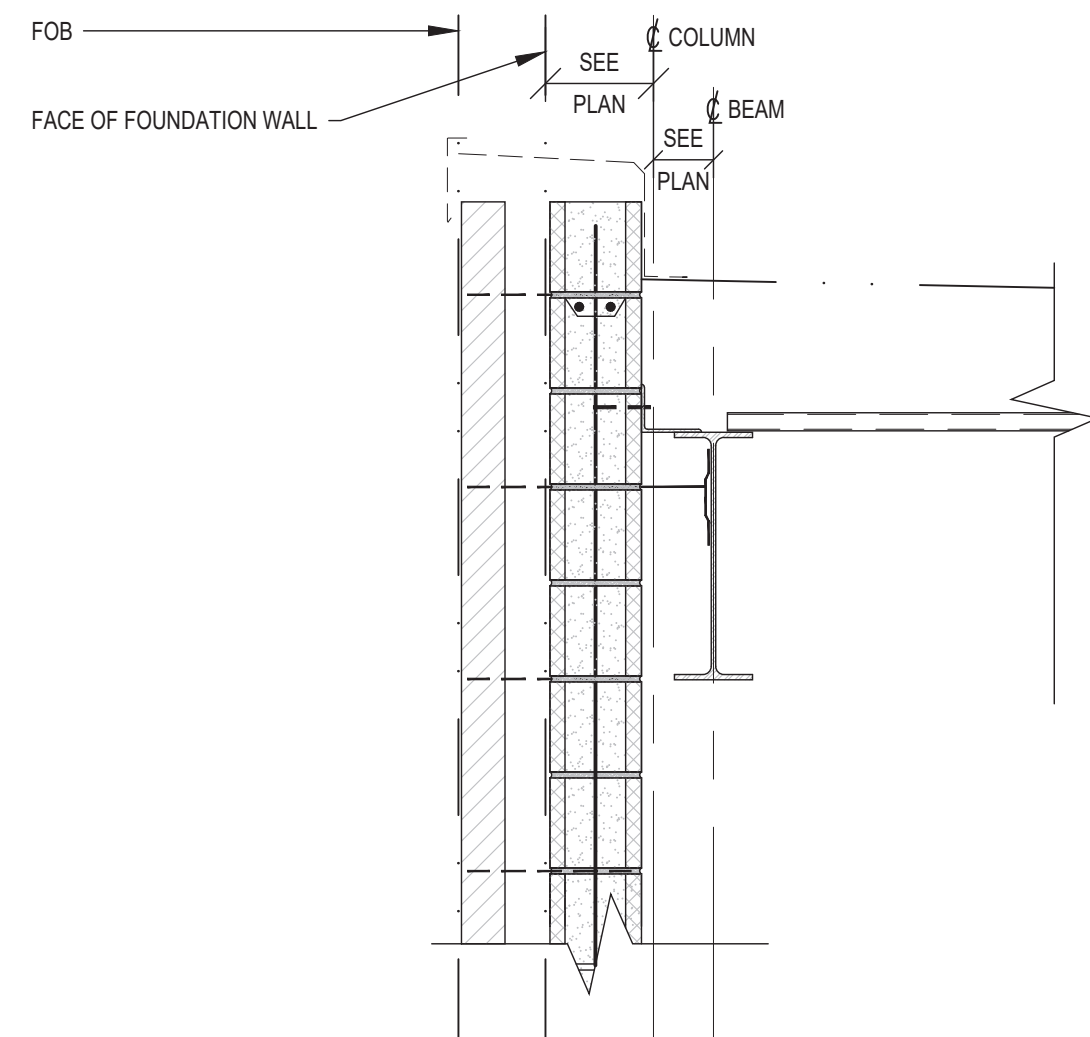
DRAWING NO.
CVS
S-203
FILE NO.
23505.02



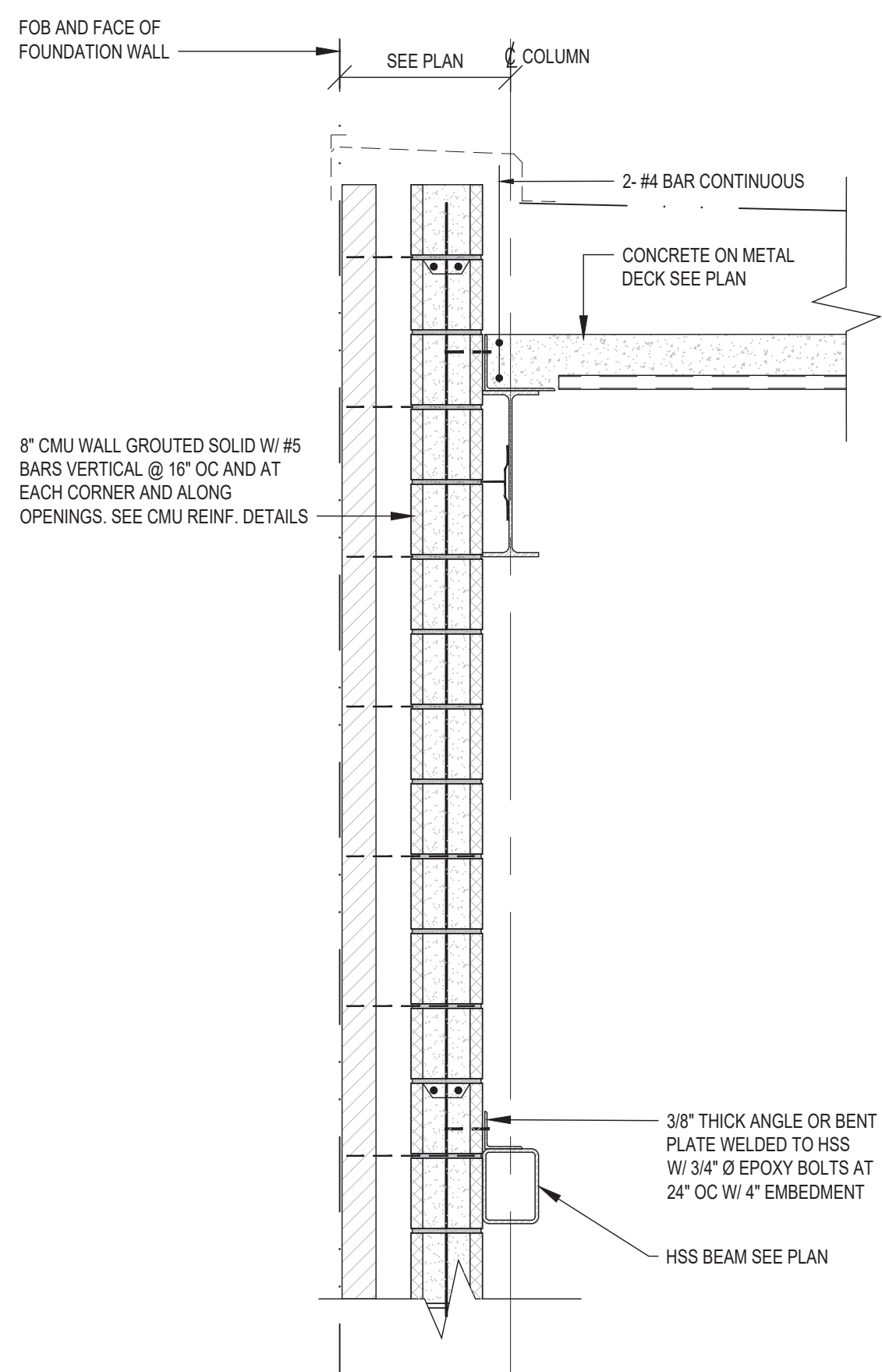
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SEE SECTION S1 FOR INFORMATION NOT SHOWN



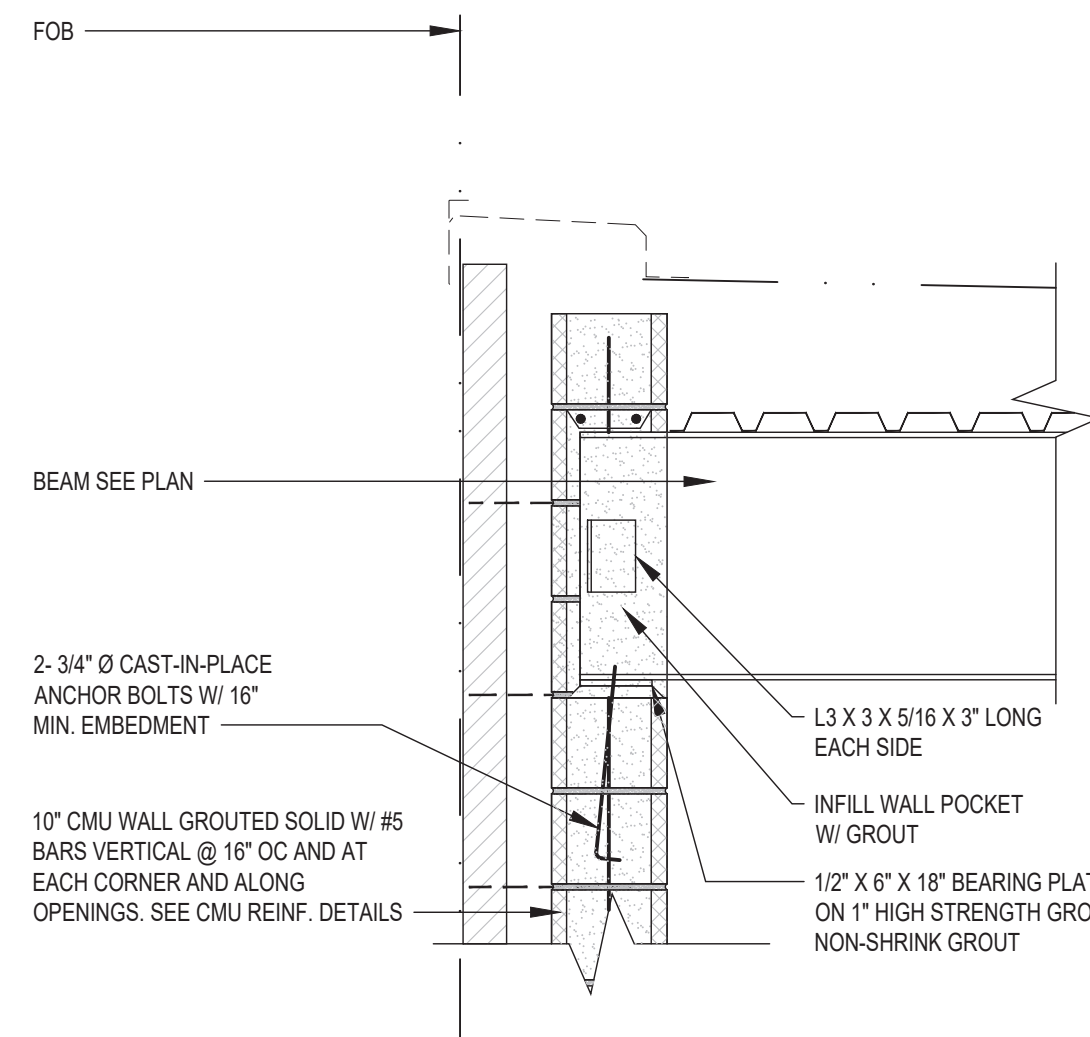
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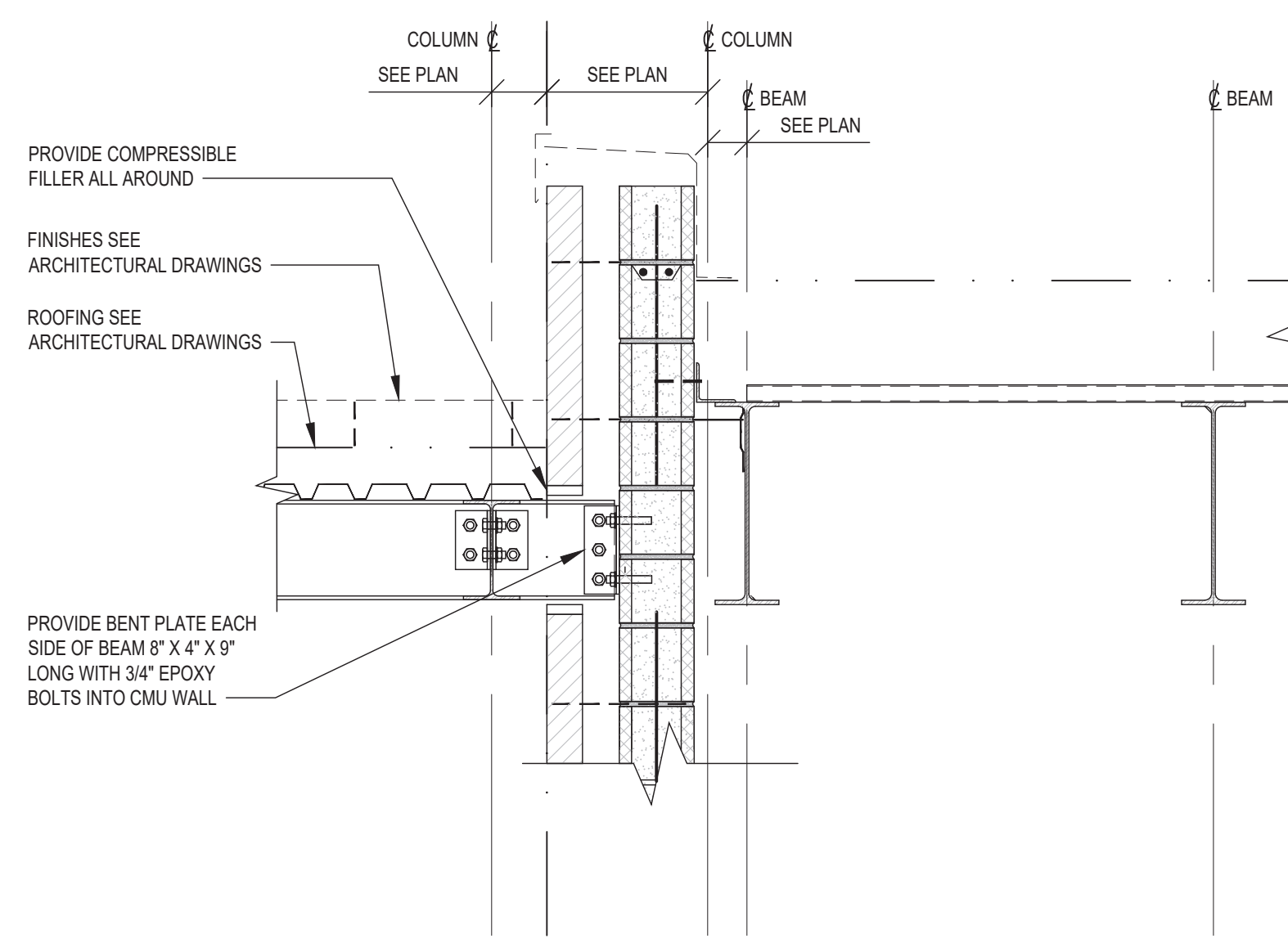
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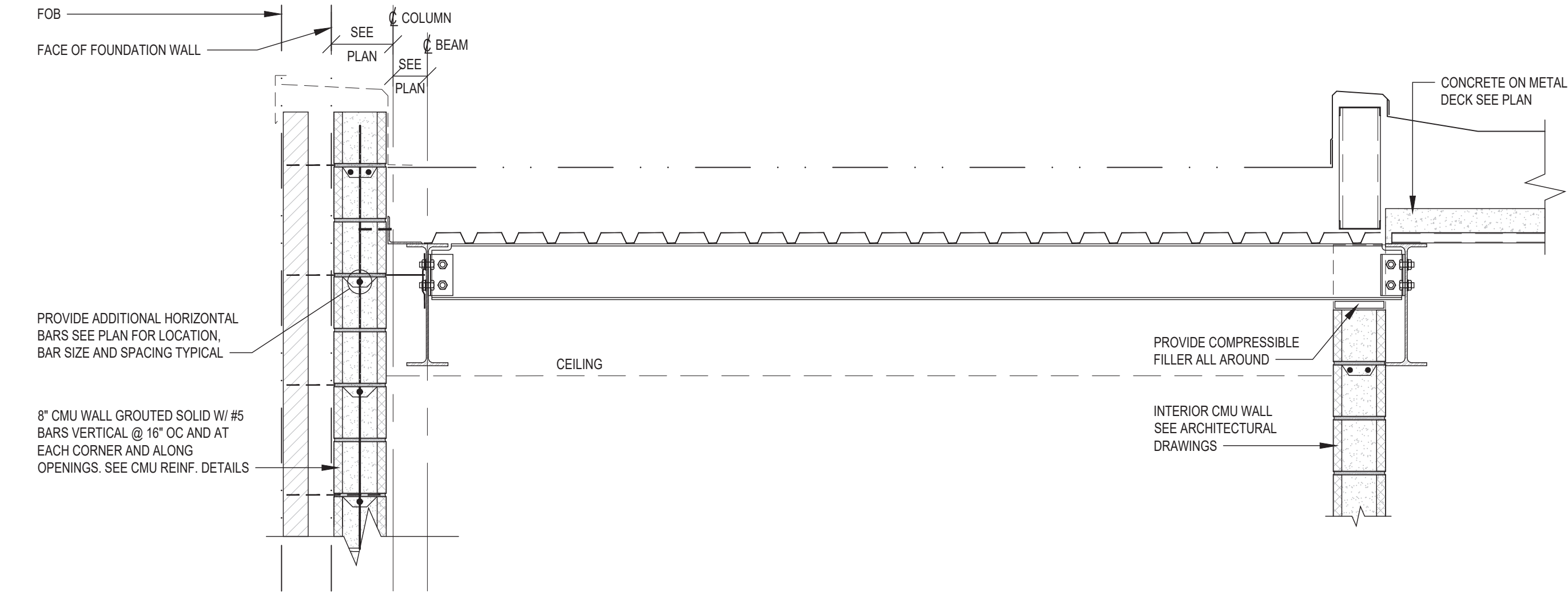
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SECTION S10
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SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION S11
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SECTION S14
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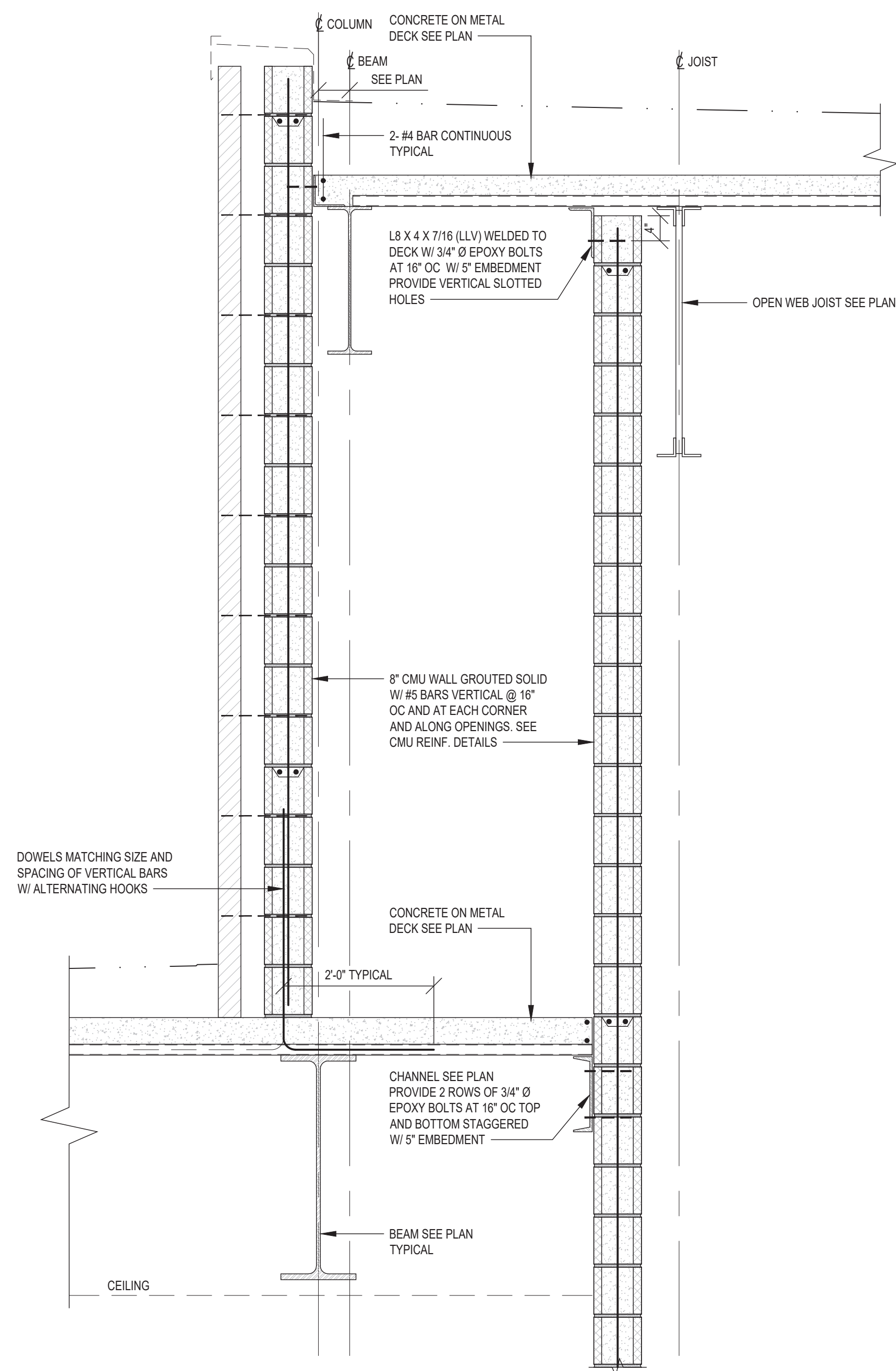
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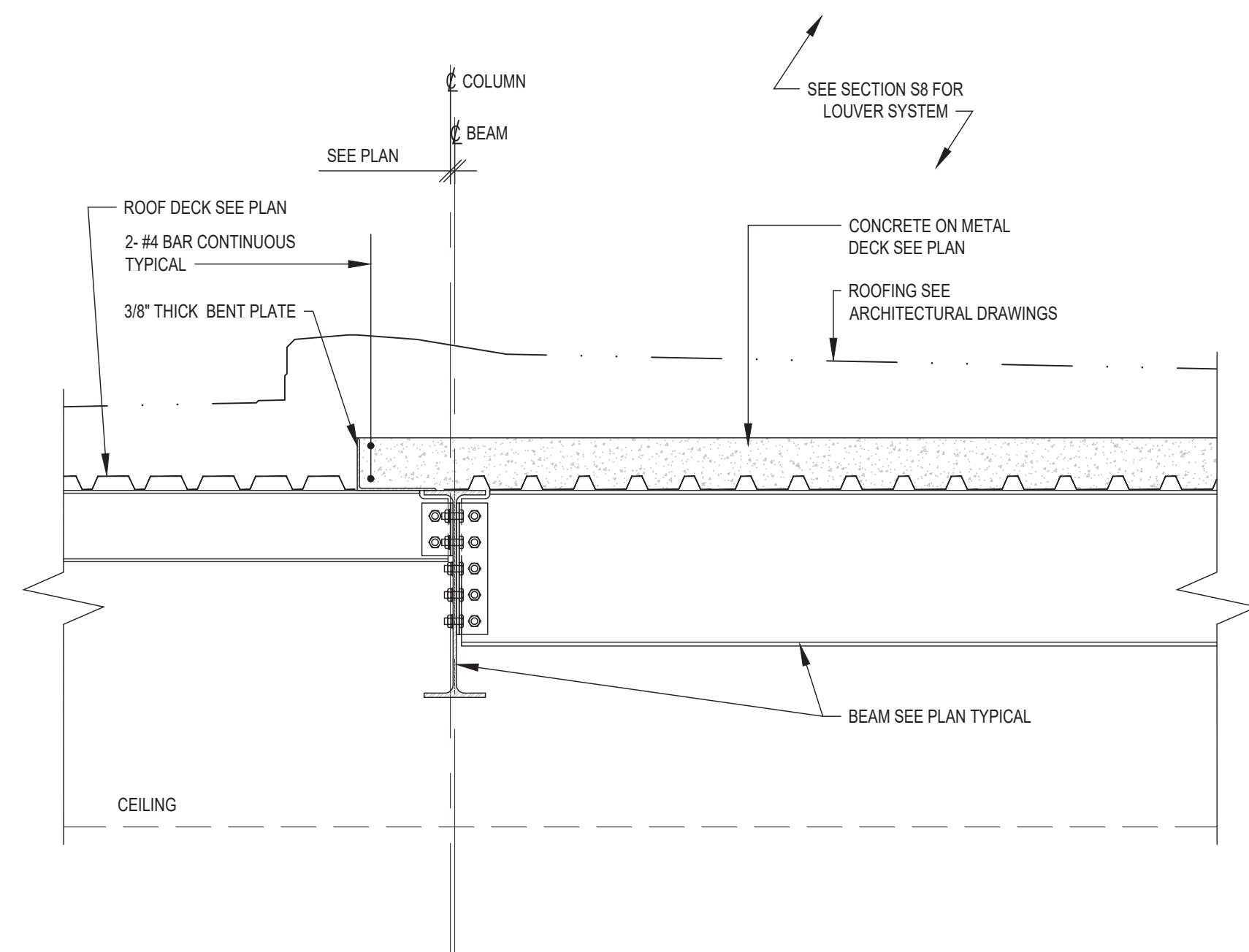
LICENCE EXP. DATE: 10-31-2025
S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT: BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909
DRAWING TITLE: DETAILS
PROJECT #: 23041

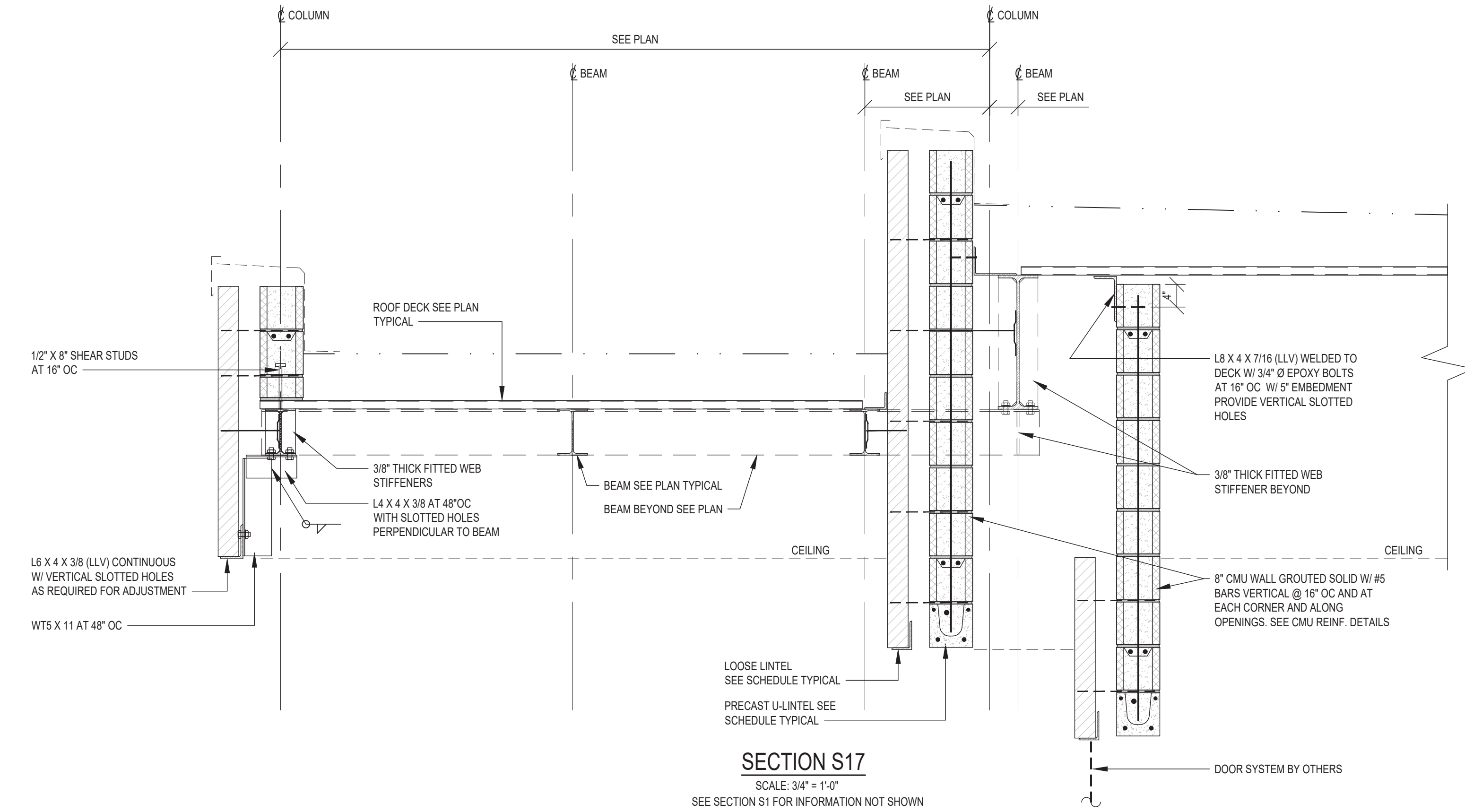
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03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE: 30"x42"	DRAWING NO. CVS S-204
SCALE: AS NOTED	
DRAWN BY: F & D	FILE NO. 23505.02



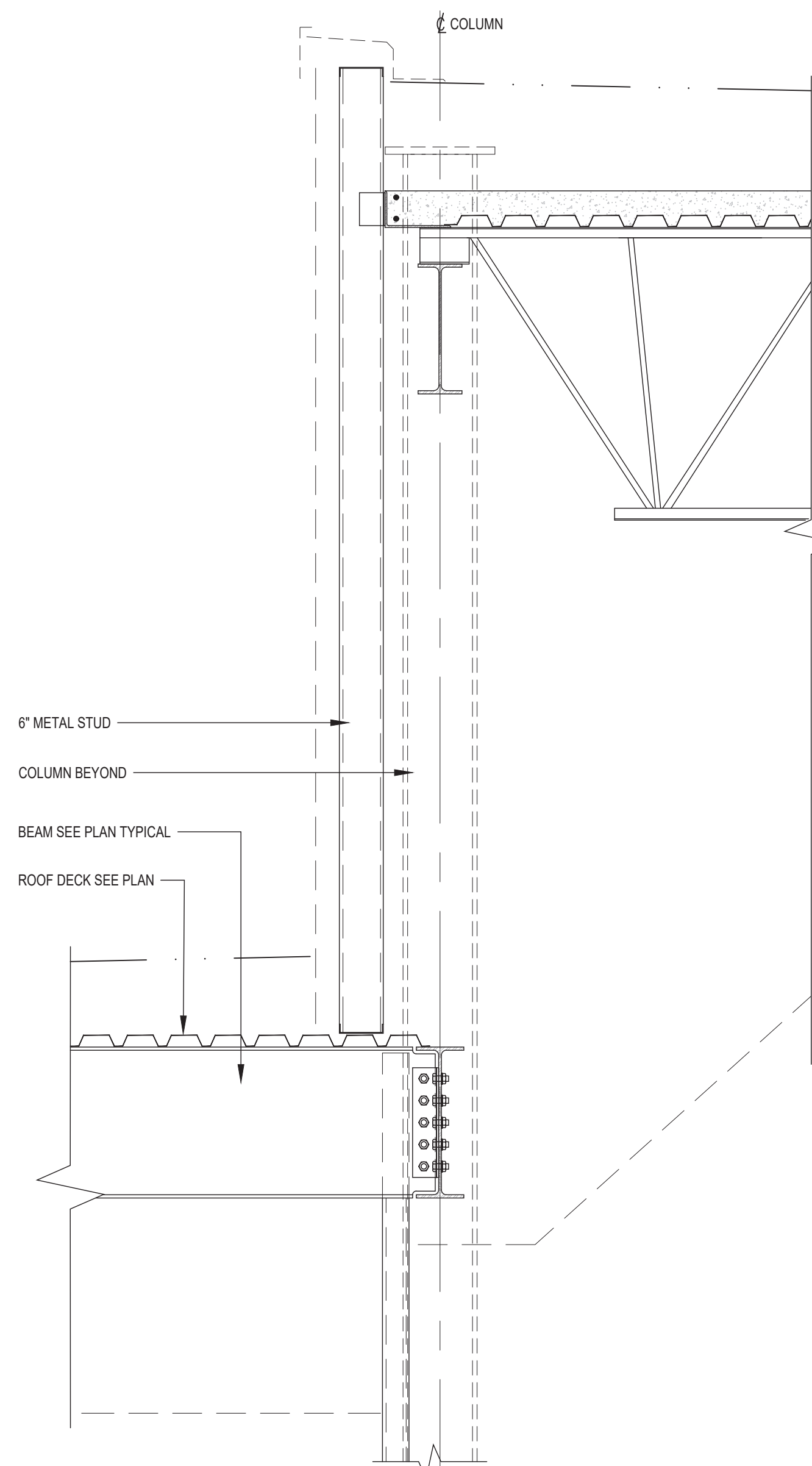
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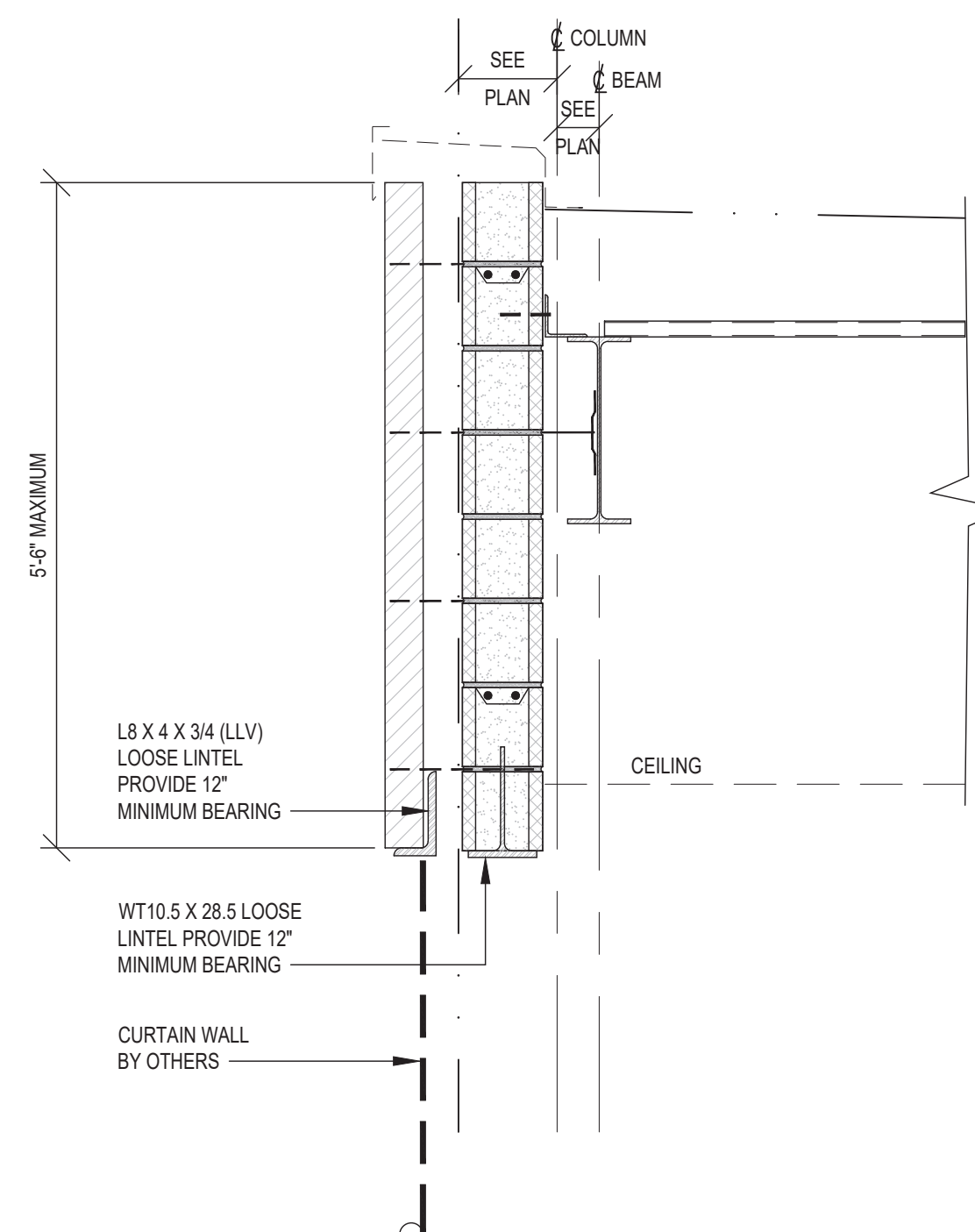
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SECTION S17
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SEE SECTION S1 FOR INFORMATION NOT SHOWN



SECTION S18
SCALE: 3/4" = 1'-0"
SEE SECTION S3 FOR INFORMATION NOT SHOWN



SECTION S19
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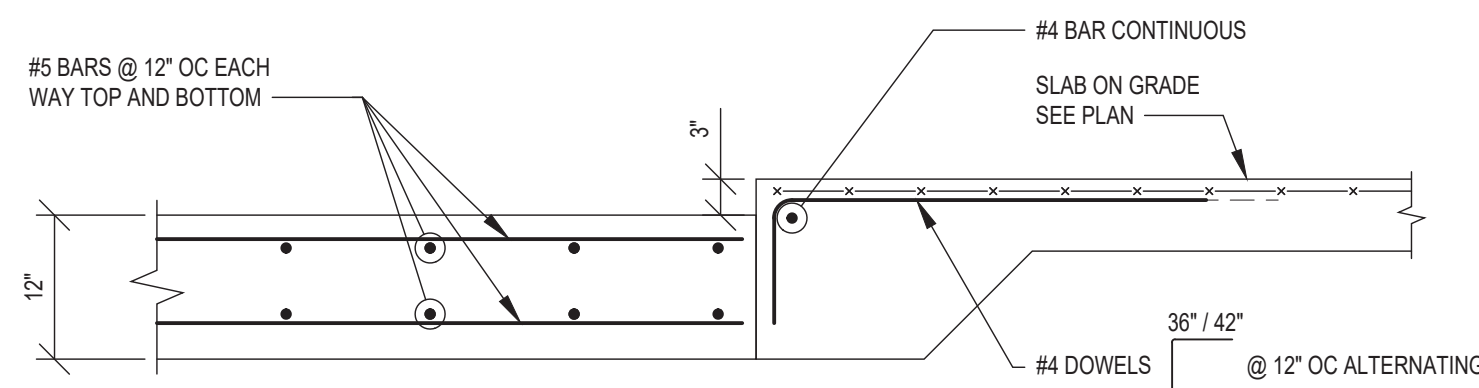
S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
ROOF RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909

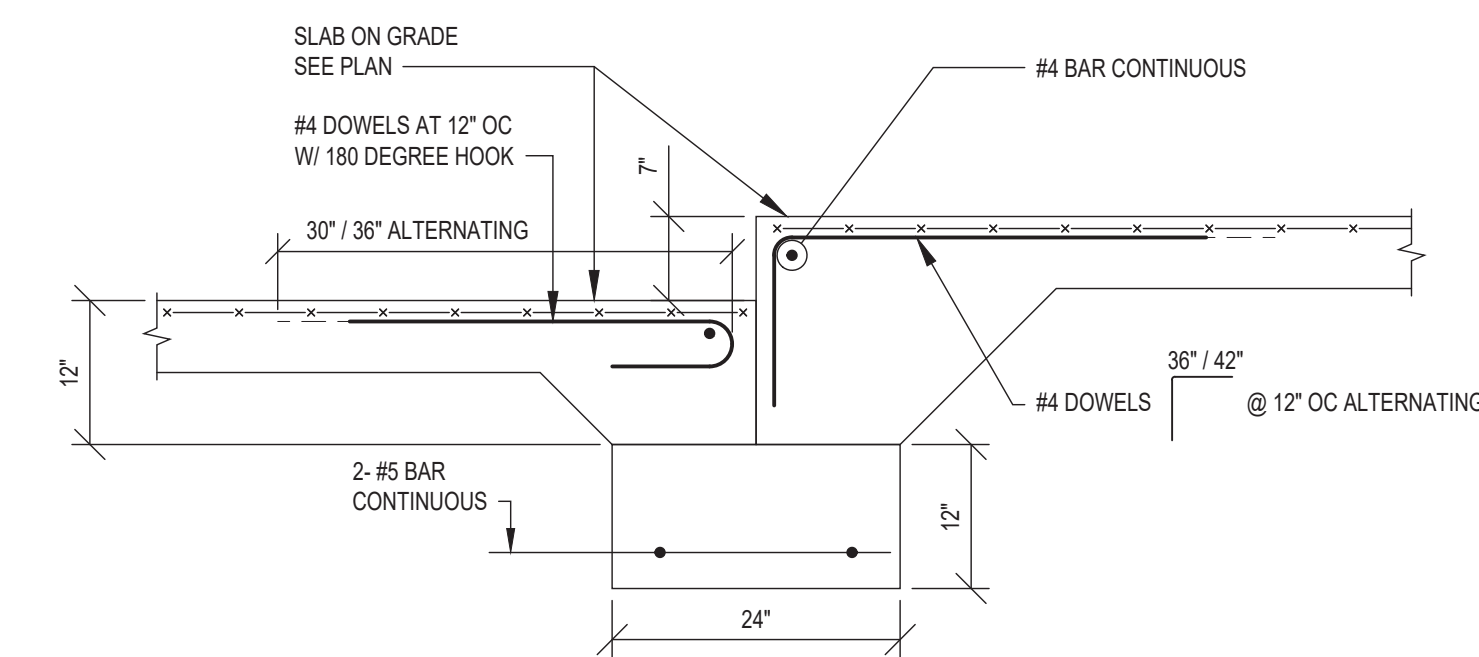
DRAWING TITLE
DETAILS
PROJECT # 22041

12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

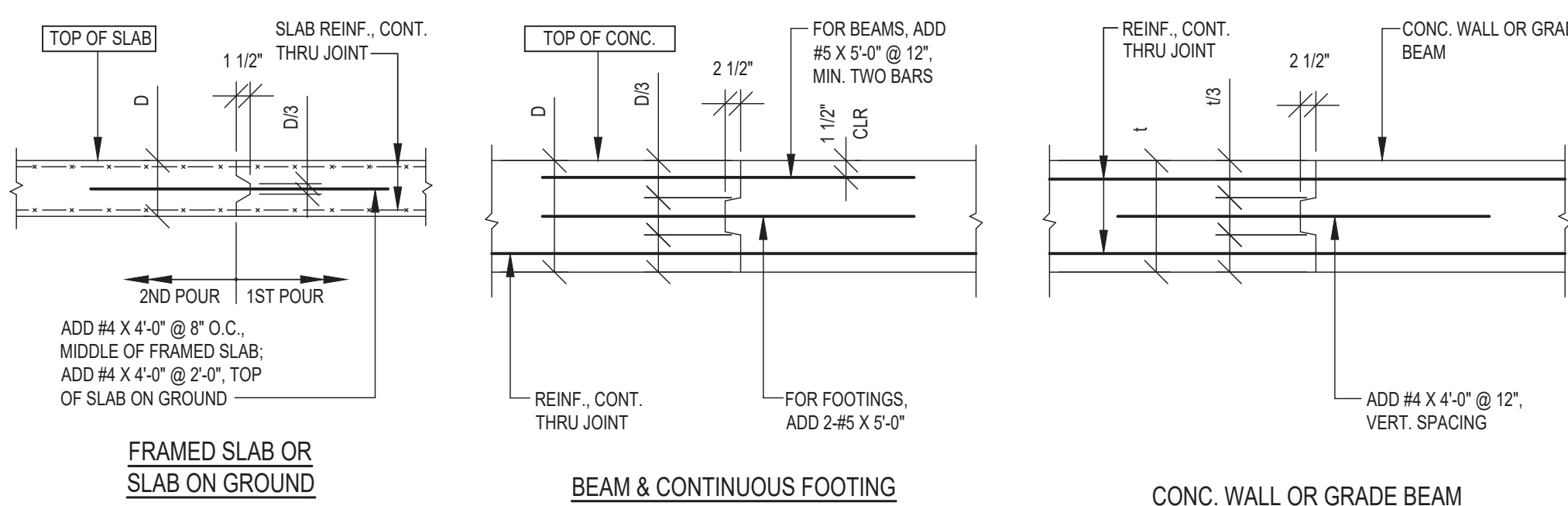
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SCALE AS NOTED	FILE NO. 23505.02
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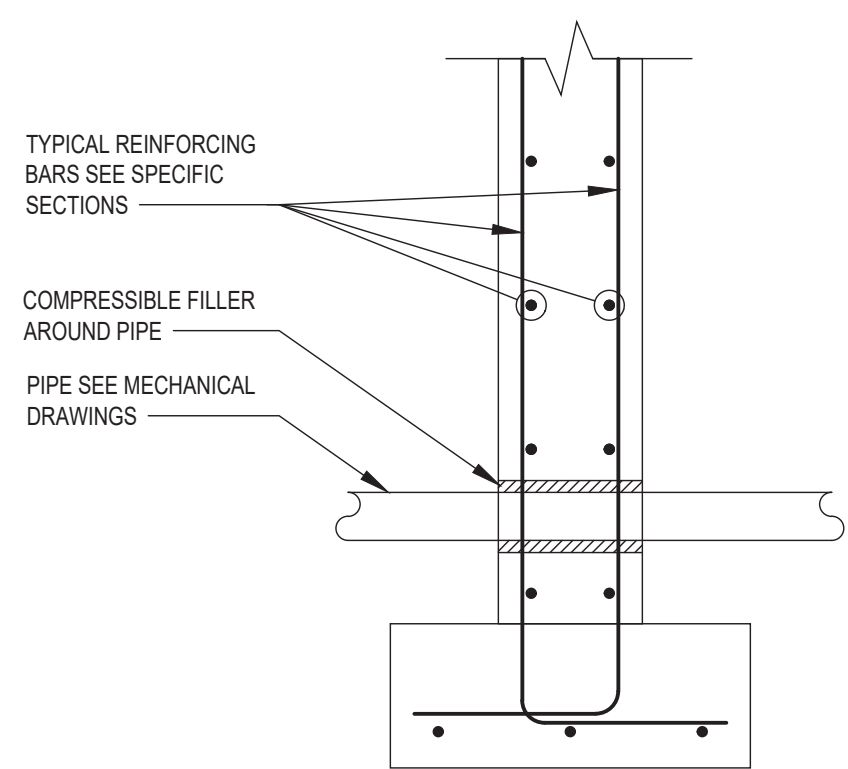
DETAIL AT DEPRESSED SLAB FOR LIFT
SCALE: 3/4" = 1'-0"



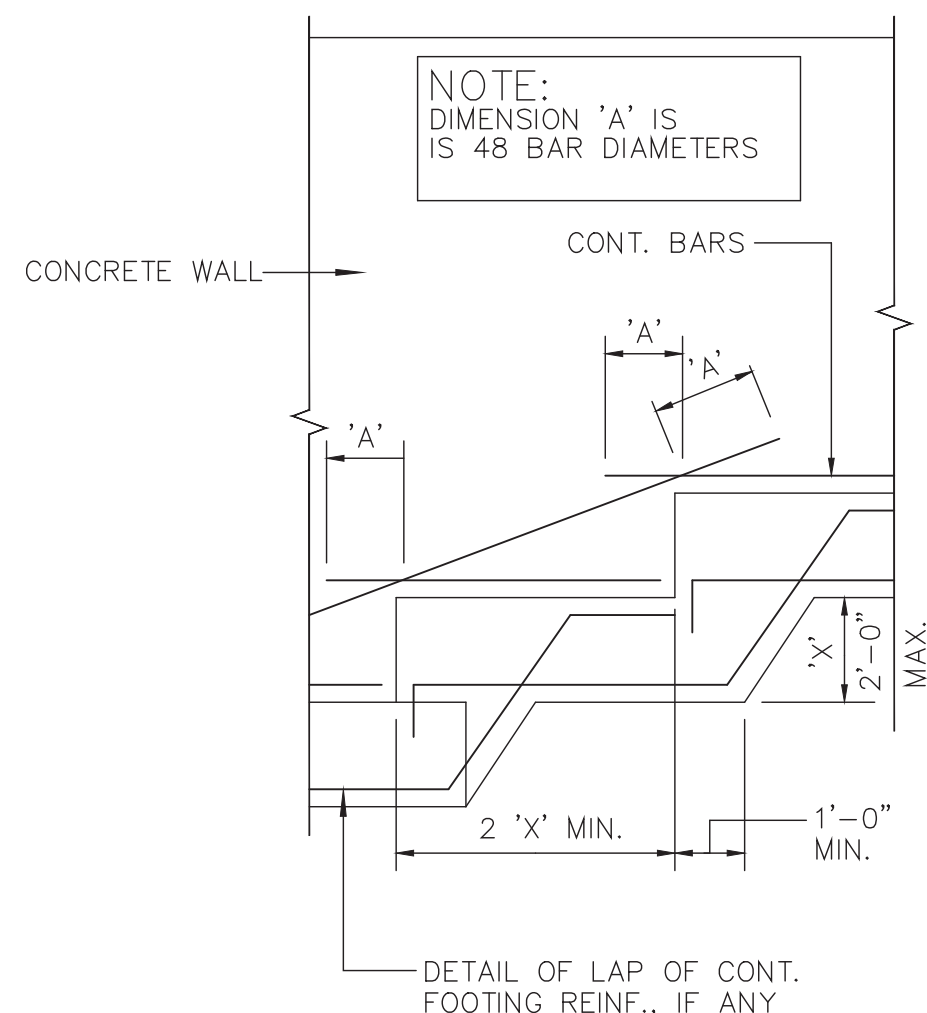
DETAIL AT DEPRESSED SLAB FOR COOLER AND FREEZER
SCALE: 3/4" = 1'-0"



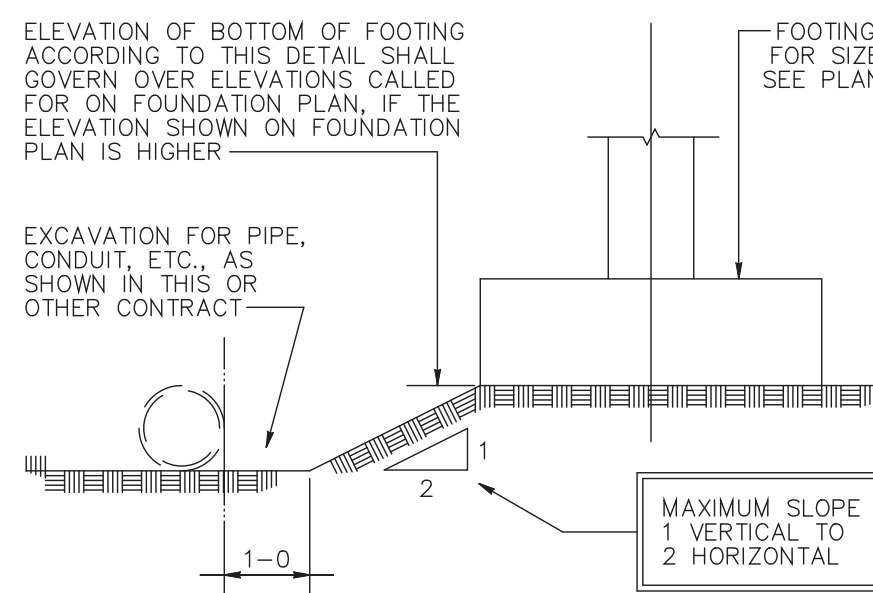
TYPICAL CONSTRUCTION JOINT DETAILS



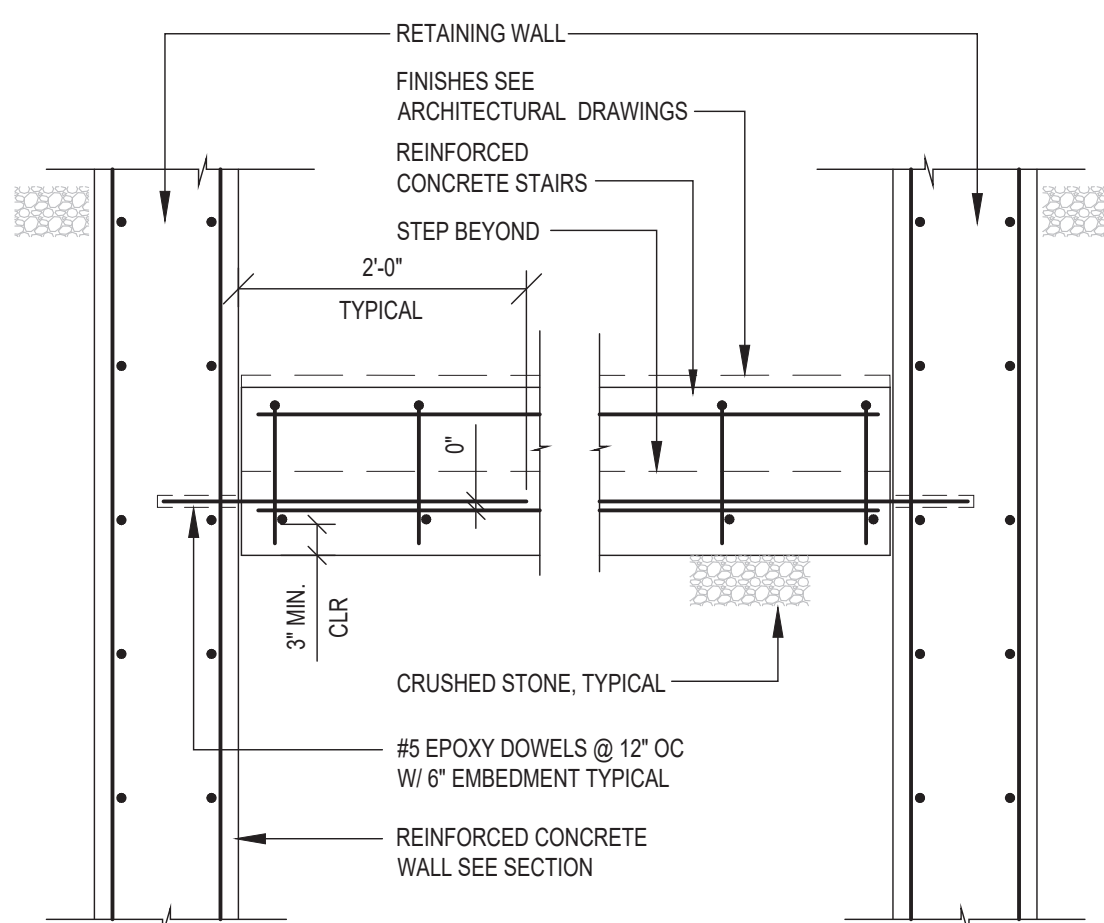
TYPICAL SECTION @ PIPE PENETRATION
SCALE: 3/4" = 1'-0"



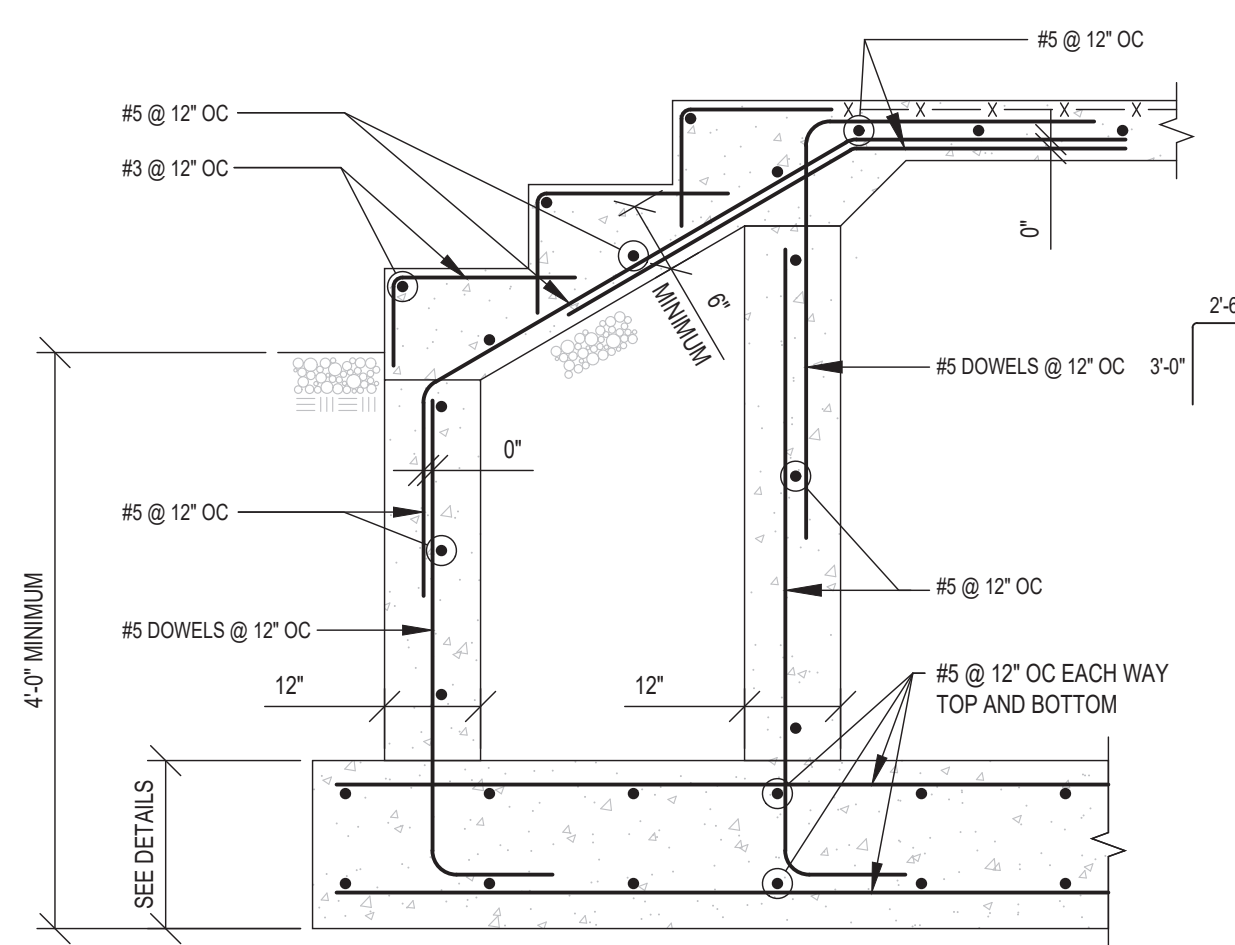
TYPICAL STEPPED
FOOTING DETAIL



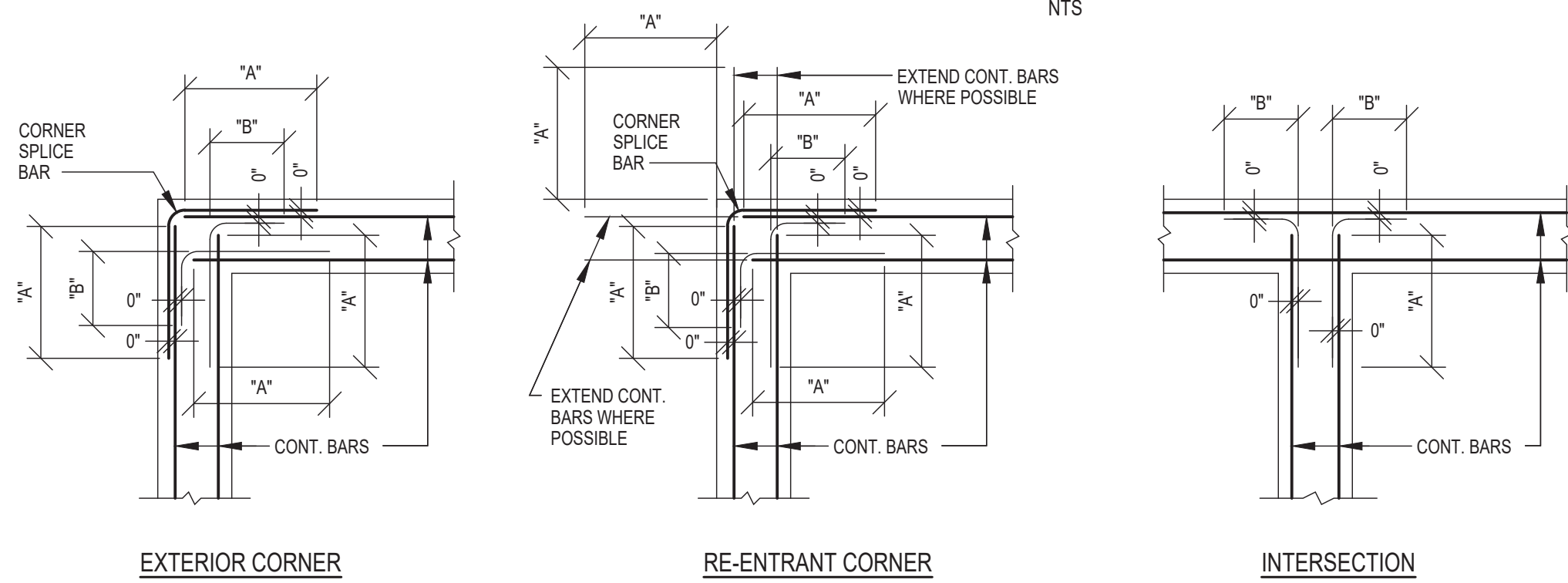
TYP. DET. @ UNDERGROUND MECH. LINES



TYPICAL STAIR SECTION
SCALE: 3/4" = 1'-0"



TYPICAL STAIR DETAIL
NTS



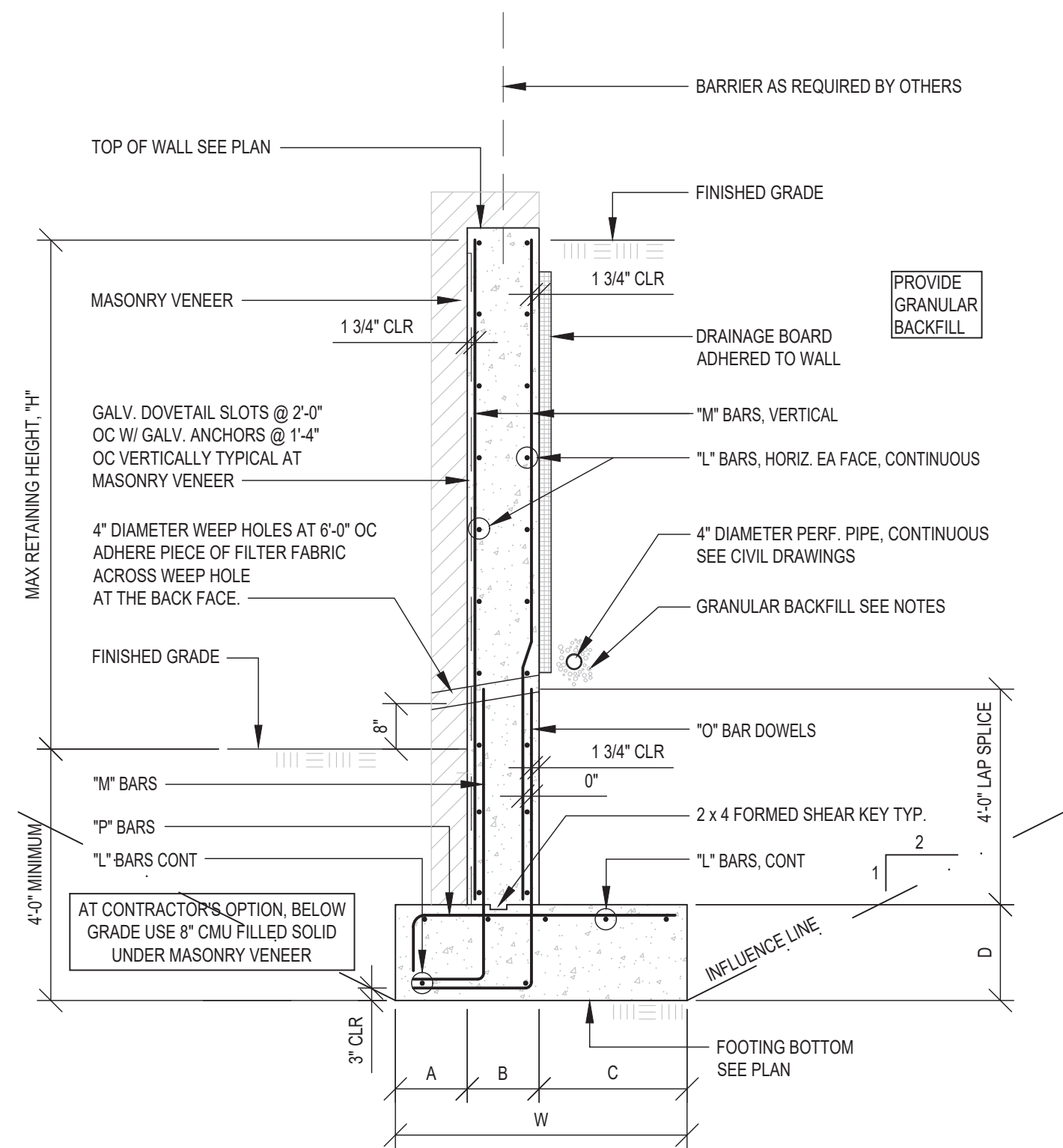
TYPICAL DETAILS OF CONTINUOUS BARS IN WALLS,
GRADE BEAMS, BEAMS AND SPANDREL BEAMS

BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION OR RETAINING WALLS BEFORE GROUND AND/OR FRAMED SLABS WHICH BRACE WALL ARE IN PLACE AND BEFORE THE CONCRETE HAS REACHED 85% OF ITS SPECIFIED STRENGTH.

BACKFILL AND COMPACT SOIL IN FRONT OF WALL PRIOR TO BACKFILLING REAR. BRACE RETAINING WALLS AS REQUIRED FOR BACKFILLING.

INFLUENCE LINE

BOTTOM OF ADJACENT FOOTING SHALL BE PLACED ABOVE THIS LINE TYPICAL

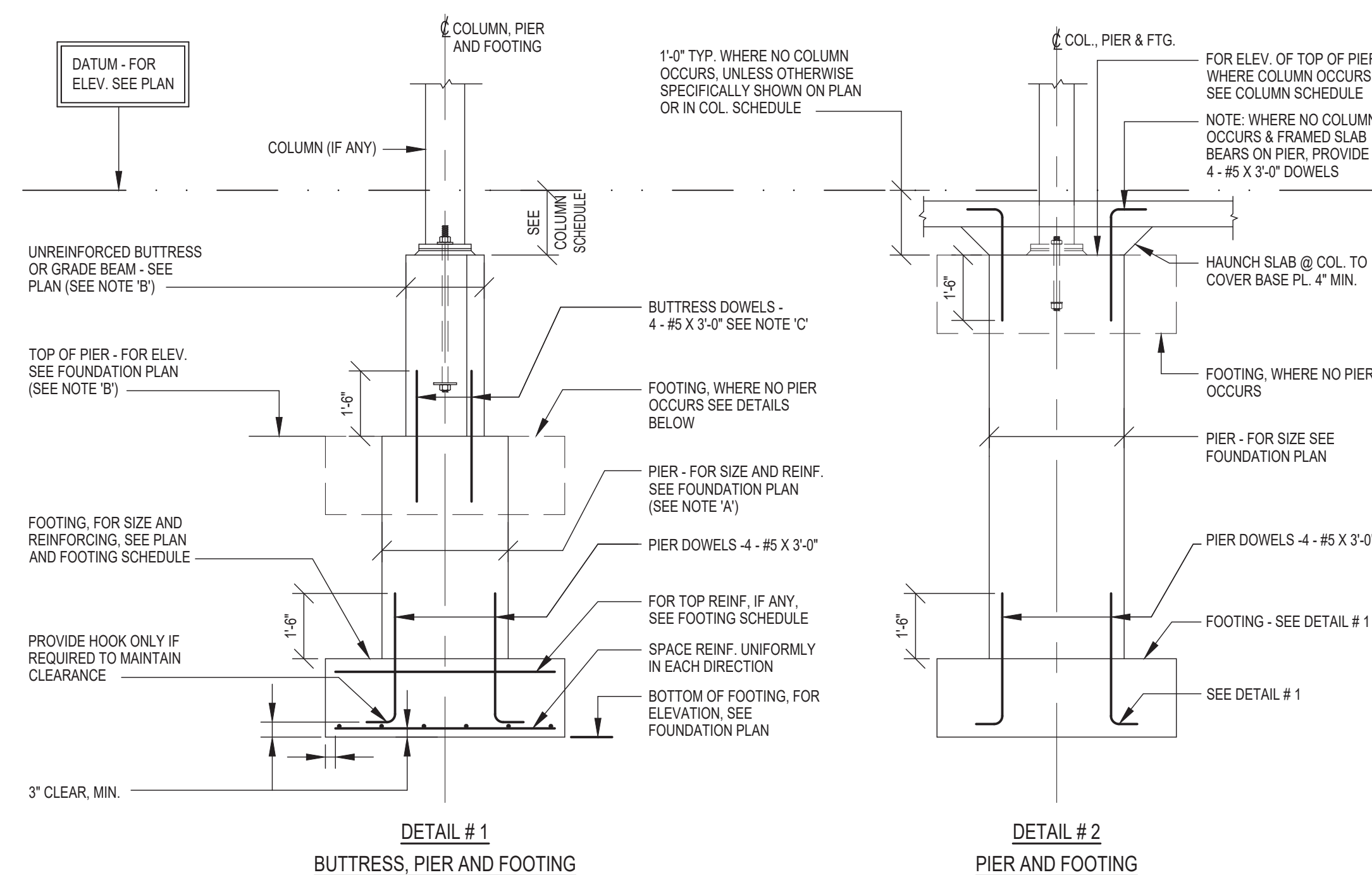


MARK	MAX. HEIGHT "H" FEET	TOE A	HEEL C	WALL B	FOOTING W	FOOTING D	REINFORCING BARS				MAXIMUM ALLOWABLE BACKFILL SLOPE
							"10"	"11"	"12"	"13"	
W1	4'-0"	1'-0"	1'-0"	1'-0"	3'-0"	1'-0"	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	3.5H : 1V
W2	8'-0"	1'-0"	2'-0"	1'-0"	4'-0"	1'-4"	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	3.5H : 1V

TYPICAL CANTILEVER RETAINING WALL SECTION

NOTES:

1. WALL TYPES MUST BE AT LEAST 4' LONG.
2. WHEN WALL FINISH IS STUCCO OMIT GALVANIZED DOVETAIL SLOTS AND MASONRY VENEER.
3. SEE SITE PLAN FOR LOCATIONS AND ELEVATIONS OF FINISHED GRADE.



NOTE 'A': WHERE FOOTING MUST BE LOWERED DUE TO FIELD CONDITION, PROVIDE CONCRETE PIER WITH 3" MIN. PROJECTION. MINIMUM SIZE FOR PIERS SHALL BE 24" X 24".

NOTE 'B': FOR DOWELS INTO REINFORCED BUTTRESS AND REINFORCED FOOTING DETAILS, SEE 'TYPICAL WALL ELEVATION SHOWING ADDED BARS AT OPENINGS AND MISCELLANEOUS REINFORCING DETAILS'.

NOTE 'C': WHERE HEIGHT OF PIER IS LESS THAN 1'-6", EXTEND 'BUTTRESS DOWELS' DOWN INTO FOOTING AND OMIT 'PIER DOWELS'.

TYPICAL BUTTRESS, PIER AND FOOTING DETAILS

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-028

PROJECT
BREWER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10909

DRAWING TITLE
TYPICAL BUTTRESS, PIER AND FOOTING
PROJECT # 23041

12-09-2024	BID
03-05-2024	S.E.D. SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. CVS S-301
SCALE AS NOTED	FILE NO. 23505.02
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TYPICAL ECCENTRIC CONNECTION DETAIL



SEE SECTIONS FOR PRIMARY REINFORCEMENT



LICENCE EXP. DATE: 10-31-2

S.E.D. CONTROL NUMBER
48-06-01-06-0-001-026

BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETERIUM ADDITION, INTERIOR
RENOVATIONS & RELATED WORK
300 E. 1ST AVE. N. W. WYOMING, WY 84002

BREWSTER CENTR	DRAWING TITLE
C.V. STARR INTERM	
CAFETORIUM ADDI	
RENOVATIONS & R	
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30"x42" CVS

S-30

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GENERAL NOTES

ALL WORK SHALL COMPLY WITH THE LOCAL STATE BUILDING CODE AND THE REQUIREMENTS OF THE LOCAL MUNICIPALITY.

STRUCTURAL DRAWINGS SHALL BE USED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND THE WORK REQUIRED BY EACH COORDINATED.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ENGINEER'S REVIEW AND SHALL NOT PROCEED WITH THE WORK PRIOR TO THIS REVIEW. PRIOR TO THE SUBMISSION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS, COORDINATE THE WORK WITH THAT OF OTHER TRADES, AND ASSUME FULL RESPONSIBILITY FOR THE PROPER FIT AND COMING TOGETHER OF ALL PARTS OF THE WORK. CONTRACTOR SHALL HIGHLIGHT, ENCIRCLE OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE SUBMITTED FOR REVIEW WITHOUT THE CONTRACTOR'S STAMP INDICATING HIS PRIOR REVIEW AND APPROVAL. ENGINEER WILL NOT REVIEW DRAWINGS WITHOUT THIS STAMP. PROVIDE SHOP DRAWINGS FOR:

- CONCRETE REINFORCING STEEL
- STRUCTURAL STEEL
- MASONRY REINFORCING STEEL
- OPEN WEB STEEL JOIST
- STEEL DECK
- LIGHT GAGE STEEL FRAMING, W/ PE STAMP

STRUCTURAL DRAWINGS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

REFER TO ARCHITECTURAL DRAWINGS FOR FASCIA AND FLASHING DETAILS, WALL AND FLOOR FINISHES, FIRE PROOFING REQUIREMENTS AND OTHER INFORMATION NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE OR IMPOSE LOADS LARGER THAN THE INDICATED DESIGN LOADS UNLESS ADEQUATE SHORING AND BRACING IS PROVIDED.

THE ENGINEER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.

THE CONTRACTOR SHALL SUPPLY AND BE FULLY RESPONSIBLE FOR ALL SHORING REQUIRED TO PERFORM THE WORK DESCRIBED HEREIN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE STRUCTURE DURING AND AFTER CONSTRUCTION.

FOUNDATIONS

ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL HAVING A PRESUMPTIVE ALLOWABLE BEARING CAPACITY OF 2 TONS PER SQUARE FOOT, MINIMUM.

FOOTING BOTTOM ELEVATIONS SHOWN ON PLAN ARE FOR ESTIMATION PURPOSES ONLY. ACTUAL ELEVATIONS ARE TO BE DETERMINED IN FIELD ACCORDING TO THE DETAILS AND SOIL CONDITIONS.

FOOTING BOTTOMS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

FOOTING BOTTOMS MAY BE LOWERED TO ACCOMMODATE MECHANICAL INSTALLATIONS. LOWERED FOOTINGS SHALL BE STEPPED 2 HORIZONTAL TO 1 VERTICAL. PROVIDE REINFORCED CONCRETE PIERS AT LOWERED COLUMN FOOTINGS.

FILL BELOW SLABS ON GROUND SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" IN THICKNESS AND COMPACTED TO 95% OF THE MODIFIED STANDARD DENSITY AS PER ASTM D-1557. SOIL FILL BELOW SLABS ON GROUND SHALL BE A POROUS, GRANULAR MATERIAL WITH 15% MAX. FINE MATERIAL WHICH PASSES A NO. 200 SIEVE.

BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION OR RETAINING WALLS BEFORE GROUND AND/OR FRAMED SLABS WHICH BRACE WALL ARE IN PLACE AND BEFORE THE CONCRETE HAS REACHED 85% OF ITS SPECIFIED STRENGTH.

TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT SHALL BE OPERATED WITH CAUTION AND IN SUCH A MANNER AS TO NOT DAMAGE THE WALLS.

CONCRETE

ALL CONCRETE WORK, MATERIALS, DETAILS AND CONSTRUCTION METHODS SHALL COMPLY WITH "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301, AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, LATEST EDITIONS, OF THE AMERICAN CONCRETE INSTITUTE AND WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE.

CAST-IN-PLACE CONCRETE SHALL CONSIST OF A STONE AGGREGATE MIX ACHIEVING A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT AGE 28 DAYS. CONCRETE FOR SLABS ON GROUND SHALL HAVE A 28 DAY STRENGTH OF 4,000 PSI.

DESIGN MIXES SHALL BE LABORATORY PREPARED AND SUBMITTED FOR THE ENGINEER'S APPROVAL PRIOR TO BEING USED.

CONCRETE FOR STRUCTURAL MEMBERS SHALL BE PLACED TO THE FULL DEPTH OF THE MEMBER IN ONE OPERATION. HORIZONTAL JOINTS ARE NOT PERMITTED UNLESS SHOWN ON PLAN OR SECTION.

PROVIDE CONSTRUCTION JOINTS IN SLABS ON GROUND NOT MORE THAN 30 FEET APART OR AS SHOWN ON PLANS. PROVIDE CONSTRUCTION JOINTS IN STRAIGHT WALLS NOT MORE THAN 30 FEET ON CENTERS OR AS SHOWN ON PLANS. PROVIDE SLAB ISOLATION JOINTS AROUND ALL COLUMNS.

CONCRETE SLABS ON FORM STEEL DECK ARE DESIGNED TO BE UNSHORED DURING PLACEMENT OF CONCRETE. CONTRACTOR SHALL ALLOW FOR ADDITIONAL CONCRETE REQUIRED TO BRING THE DEFLECTED SLAB TO THE LEVEL ELEVATIONS NOTED ON DRAWINGS.

ALL SURFACES EXPOSED TO PEDESTRIAN TRAVEL SHALL BE NON-SLIP BROOM FINISH.

CONCRETE TO EXPOSED WEATHER SHALL HAVE TARGETED 6% AIR ENTRAINMENT. SPECIAL DESIGN MIXES SHALL BE MADE FOR ALL PUMPED CONCRETE. FLY ASH MAY BE USED AS A PLASTICIZER TO REDUCE WATER CONTENT BUT CANNOT BE USED TO REDUCE CEMENT CONTENT. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE WORK HAS BEGUN.

NO ADMIXTURES SHALL BE USED UNLESS SPECIFIED OR APPROVED BY THE ENGINEER. THE USE OF CALCIUM CHLORIDE IS STRICTLY FORBIDDEN.

CONCRETE SLABS ON GROUND SHALL BE PLACED IN ALTERNATE PANELS, CHECKERBOARD FASHION, NOT EXCEEDING 1,000 SQUARE FEET IN AREA NOR 40 FEET IN ONE DIRECTION.

ANY CONDUIT EMBEDDED IN THE SLABS ARE TO BE LOCATED AND DISTRIBUTED SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH THE REINFORCING STEEL, AND SHALL BE PLACED BELOW THE TOP LAYER OF REINFORCEMENT. WHERE THE REQUIRED CONCRETE COVER CANNOT BE MAINTAINED, THE ENGINEER SHALL BE NOTIFIED AND THE SLAB THICKNESS MAY, WITH THE ENGINEER'S APPROVAL, BE INCREASED.

ALL EXPOSED CONCRETE SHALL HAVE 3/4" CHAMFER.

REINFORCING STEEL

REINFORCING BARS SHALL CONFORM TO ASTM. STANDARD A615 GRADE 60 FOR DEFORMED BILLET STEEL.

WELDED WIRE MESH SHALL CONFORM TO ASTM STANDARD A-185. MINIMUM MESH SIZE IS 66-W1.4XW1.4 UNLESS OTHERWISE NOTED ON DRAWINGS.

ALL REINFORCEMENT BARS AND TIES SHALL BE FREE OF LOOSE FLAKY RUST, MUD, OIL OR OTHER COATINGS THAT WILL DESTROY, REDUCE OR HAMPER FULL BOND CAPACITY.

REINFORCING SHALL BE ACCURATELY INSTALLED TO THE REQUIRED ELEVATION AND CHAIRED OR SECURELY TIED IN PLACE SO AS TO PREVENT DISLOCATION DURING CONCRETE PLACEMENT. FABRICATION AND PLACEMENT SHALL COMPLY WITH "MANUAL OF STANDARD PRACTICE", CRSI MSP-1-86 AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", CHAPTER 5.

REINFORCING BARS NOTED CONTINUOUS (CONT.) SHALL BE LAPPED AT SPLICES AND HOOKED AT NON-CONTINUOUS ENDS. UNLESS SHOWN OTHERWISE ON DRAWINGS, LAP SPLICES SHALL NOT BE LESS THAN 48 TIMES THE BAR DIAM. SEE TYPICAL DETAILS FOR HOOKS OF CONTINUOUS BARS.

PROVIDE 2 # 6 BARS CONTINUOUS, TOP AND BOTTOM OF WALLS, 2 # 7 BARS CONTINUOUS, TOP AND BOTTOM OF GRADE BEAMS, UNLESS OTHERWISE NOTED.

PROVIDE 2 # 5 BARS AT EACH SIDE OF AN OPENING IN WALL OR SLAB. BAR LENGTH SHALL EQUAL OPENING DIMENSION PLUS 4 FEET.

SPLICE TOP BARS MIDSPAN BETWEEN SUPPORTS AND BOTTOM BARS OVER THE SUPPORTS UNLESS OTHERWISE NOTED ON DRAWINGS.

MASONRY

ALL MASONRY WORK SHALL COMPLY WITH "SPECIFICATIONS FOR MASONRY STRUCTURES," ACI 530.1 AND THE LOCAL BUILDING CODE.

ALL LOAD BEARING MASONRY CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY" OF THE NCMIA AND ACI 531.

CONCRETE MASONRY UNIT CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH FM OF 1,500 PSI DETERMINED BY THE UNIT STRENGTH METHOD. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2,500 PSI WITH SLUMP BETWEEN 8 AND 11 INCHES.

MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:

MATERIALS:

HOLLOW CMU	ASTM C-90
SOLID CMU	ASTM C-145
PORTLAND CEMENT	ASTM C-150
MASONRY CEMENT	ASTM C-91
MASONRY SAND	ASTM C-144
HYDRATED LIME	ASTM C-207 TYPE S
MORTAR	ASTM C-270 TYPE M OR S
GROUT	ASTM C-476

JOINT REINFORCING SHALL BE DUR-O-WALL, OR EQUAL, WELDED LADDER TYPE GALVANIZED WIRE. OTHER MASONRY REINFORCING SHALL BE OF THE TYPE SHOWN ON DRAWINGS. CONTROL JOINTS SHALL BE FACTORY-FABRICATED SOLID SECTIONS OF NATURAL OR SYNTHETIC RUBBER.

PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING AT 16 INCHES ON CENTERS, TYP.

PROVIDE HORIZONTAL JOINT REINFORCING AT 8 INCH VERTICAL INTERVALS IN THE FIRST AND SECOND BED JOINTS IMMEDIATELY ABOVE LINTELS AND BELOW SILLS AT OPENINGS. EXTEND THE SECOND BED JOINT REINFORCING 2 FEET BEYOND EACH JAMB. PROVIDE PREFORMED UNITS FOR CONTINUOUS REINFORCING AT CORNERS.

REINFORCING SHALL NOT EXTEND THROUGH VERTICAL CONTROL JOINTS.

FILL BLOCK CORES SOLID AT VERTICAL REINFORCING AND DOWELS. BELOW BEARING POINTS OF STEEL BEAMS OR JOISTS, AT EMBEDDED ITEMS SUCH AS ANCHORS OR BOLTS, AND AT ALL CHANGES IN WALL THICKNESS OR TYPE OF CONSTRUCTION.

FOR REINFORCED MASONRY CONSTRUCTION, PROVIDE COARSE GROUT WITH A MAXIMUM GROUT LIFT HEIGHT OF 5 FEET. REINFORCING BARS SHALL PROJECT ABOVE THE TOP OF THE LIFT BY A DISTANCE NOT LESS THAN THE MINIMUM LAP SLEEVE DIMENSION.

ALLOWABLE STRESSES HAVE BEEN ESTABLISHED ON THE BASIS OF ALL LOAD BEARING MASONRY CONSTRUCTION BEING INSPECTED BY A PROFESSIONAL ENGINEER, IN ACCORDANCE WITH CODE REQUIREMENTS.

BEARING WALLS AND SHEAR WALLS SHALL BE ERCTED WITH TYPE M OR S MORTAR. WHERE REINFORCING IS CALLED FOR IN SUCH WALLS, THE MORTAR SHALL CONFORM TO THE REQUIREMENTS OF TYPE PM OR PL. NON-LOAD BEARING WALLS MAY BE ERCTED WITH TYPE N MORTAR.

ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE ADDED TO THE MORTAR OR GROUT. STRUCTURAL STEEL

THE STEEL SUBCONTRACTOR SHALL VISIT THE SITE AND SURVEY THE EXISTING CONDITIONS TO ENSURE STEEL FITMENT INTO EXISTING STRUCTURE.

ALL STRUCTURAL STEEL WORK SHALL COMPLY WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" OF THE AISC.

ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN AND STRAIGHT AND SHALL CONFORM TO THE LATEST EDITION FOR ASTM DESIGNATION A-892 FOR W SHAPES WITH YIELD STRESS OF 50,000 PSI, OR ASTM DESIGNATION A-500 GRADE-B FOR ALL "HSS" SECTIONS WITH YIELD STRESS OF 46,000 PSI. CHANNELS AND STEEL FOR BASE PLATES, CAP PLATES AND CONNECTION ANGLES MAY BE ASTM DESIGNATION A-36.

EXCEPT AS NOTED ON DRAWINGS, SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT AS SHOWN ON PLANS OR SECTIONS.

WELDING SHALL BE DONE ONLY BY CERTIFIED WELDERS. WELDERS CERTIFICATIONS SHALL BE FURNISHED TO THE OWNER PRIOR TO THE PERFORMANCE OF THE WORK. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED AND APPROVED BY AN INDEPENDENT INSPECTION AGENCY. MAGNETIC PARTICLE TEST 20% OF ALL FILLET WELDS.

ALL BOLTS SHALL COMPLY WITH ASTM DESIGNATION A-325. MINIMUM DIAMETER OF BOLTS IS 3/4 INCHES

SHEAR CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR 1.15 TIMES THE REACTION DUE TO THE MAXIMUM PERMITTED UNIFORM FULL SPAN LOAD SHOWN IN THE BEAM TABLES OF THE AISC STEEL MANUAL. SEE SCHEDULE FOR COMPOSITE BEAM REACTION FACTORS.

WHERE POSSIBLE USE TWO SIDED WEB CONNECTIONS FOR BEAMS TO GIRDEERS AND COLUMNS.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL STEEL ELEMENTS FOR REVIEW. FABRICATE ONLY FROM APPROVED SHOP DRAWINGS. DRAWINGS SUBMITTED FOR APPROVAL SHALL BE 24" X 36" IN SIZE AND SHALL HAVE A MINIMUM OF FOUR DETAILS PER SHEET.

THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND PROVIDE INFORMATION REQUIRED FOR COORDINATION BETWEEN TRADES AND SHALL VERIFY ALL DIMENSIONS ON SHOP DRAWINGS WITH FIELD DIMENSIONS BEFORE SUBMISSION.

THE GENERAL CONTRACTOR SHALL STAMP EACH DRAWING AND INDICATE THE DATE OF REVIEW WITH A STATEMENT INDICATING COMPLIANCE WITH PROJECT REQUIREMENTS. SUBMISSIONS NOT MEETING THESE REQUIREMENTS WILL BE RETURNED FOR CORRECTION.

MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE VALUES SHOWN ON DRAWINGS. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A NYS LICENSED ENGINEER WITH THE SHOP DRAWINGS.

PROVIDE STIFFENER ANGLES, TEES OR PLATES IN THE WEBS OF BEAMS UNDER ALL POSTS, COLUMNS OR STRUTS CARRIED BY THE BEAM, OVER HANGERS AND OVER COLUMNS THAT SUPPORT SEATED OR CANTILEVERED BEAMS.

PROVIDE HOLES OR COPES IN STRUCTURAL MEMBERS REQUIRED BY MECHANICAL TRADES. ALL SUCH HOLES OR COPES SHALL BE SHOWN ON SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. NO BURNING OR CUTTING OF STRUCTURAL STEEL SHALL BE DONE IN THE FIELD WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

PROVIDE LOOSE LINTELS AS SHOWN ON PLAN, SECTIONS OR SCHEDULE OR AS REQUIRED BY THE ARCHITECTURAL DRAWINGS.

PROVIDE MASONRY ANCHORS WELDED TO BEAMS AND COLUMNS, TYPE AND GAUGE AS NOTED ON PLAN, WHEREVER MEMBERS ARE ABUTTED BY STONE OR MASONRY.

ERECTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF TEMPORARY BRACING NECESSARY TO THE STABILITY OF THE FRAME AND TO HOLD ALL PARTS IN PLUMB AND TRUE ALIGNMENT.

PROVIDE WELD PLATES WITH CAST-IN-PLACE ANCHORS FOR DECKING BEARING ON CONCRETE OR MASONRY.

PROVIDE THROUGH PLATE CONNECTIONS FOR ALL "HSS" SECTIONS USED AS COLUMNS WHERE STEEL BEAMS FRAME INTO THE COLUMN.

WELDING ELECTRODES SHALL BE E-70 SERIES. MINIMUM WELD SIZE IS 1/4 INCH.

ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE AWS D1.

LIGHT GAGE STEEL

ALL MEMBERS AND CONNECTIONS SHALL BE DESIGNED BY THE MANUFACTURER'S ENGINEER, IN ACCORDANCE WITH LOCAL CODE LOAD REQUIREMENTS. PROVIDE PE SIGNED/SEALED CALCULATIONS.

ALL 16 GAGE AND HEAVIER GALVANIZED STRUCTURAL MEMBERS SHALL BE FORMED FROM ASTM A-653, GRADE D STEEL WITH 50 KSI YIELD STRESS, MINIMUM.

ALL 18 AND 20 GAGE MEMBERS SHALL BE FORMED FROM ASTM A-653, GRADE A STEEL WITH 33 KSI YIELD STRESS, MINIMUM.

STRUCTURAL PROPERTIES SHALL BE COMPUTED IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL FIELD ABRASIONS TO MEMBERS FROM WELDING SHALL BE TOUCHED UP WITH ZINC RICH PAINT OR PRIMER. SCREWS SHALL BE CADMIUM OR ZINC PLATED FOR CORROSION RESISTANCE.

CLIP ANGLE CONNECTIONS SHALL BE 12 GAGE STEEL, MINIMUM. CONNECTIONS OF 18 GAGE OR HEAVIER MATERIAL MAY BE WELDED OR SCREWED. LIGHTER MATERIAL MAY ONLY BE SCREWED.

MINIMUM SIZE OF SCREWS SHALL BE NO. 10-16. SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3/4 INCH.

WELDING RODS SHALL BE 3/32" DIAMETER, TYPE E-60 OR E-70.

CONNECTIONS OF LIGHT GAGE STEEL TO CONCRETE OR STRUCTURAL STEEL MAY BE MADE USING HILTI POWDER ACTUATED FASTENERS (PAFS), 0.145" DIAMETER, MIN. MINIMUM EMBEDMENT OF PAFS IN CONCRETE IS 1 1/8". POINT OF PAFS SHALL BE DRIVEN COMPLETELY THROUGH THE BACK SIDE OF HOT ROLLED STRUCTURAL STEEL MEMBERS.

BUILT-UP LIGHT GAGE STEEL MEMBERS OR ASSEMBLIES SHALL HAVE EACH COMPONENT FASTENED AT SPACINGS NOT TO EXCEED 12 INCHES.

PROVIDE TOP AND BOTTOM FLANGE BRIDGING AT MID SPAN FOR JOISTS SPANNING UP TO 16 FEET AND AT THIRD POINTS FOR LONGER SPANS.

PROVIDE CONTINUOUS HORIZONTAL BRIDGING FOR STUDS IN BEARING AND EXTERIOR WALLS AT 4 FOOT MINIMUM VERTICAL SPACING. WELD OR CLIP TO EACH STUD.

OPEN WEB STEEL JOISTS

STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE, LATEST EDITION.

STEEL JOISTS SHALL HAVE EXTENDED ENDS AS SHOWN ON DRAWINGS OR AS REQUIRED BY ARCHITECTURAL DETAILS.

PROVIDE AND INSTALL JOIST BRIDGING AS REQUIRED BY THE SJI SPECIFICATION AND AS SHOWN ON PLANS.

THE ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO.

IN ADDITION TO UNIFORM DEAD AND LIVE LOAD SPECIFIED ON THE DRAWINGS, ALL ROOF JOISTS SHALL BE DESIGNED FOR A NOMINAL CONCENTRATED LOAD OF 300 LBS APPLIED BETWEEN PANEL POINTS.

IN ADDITION TO UNIFORM DEAD AND LIVE LOAD SPECIFIED ON DRAWING S-3.0, ALL ROOF JOIST SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 1,000 LBS APPLIED AT TOP CHORD PANEL POINTS. FOR CONCENTRATED LOAD OF 1,000 LBS APPLIED BETWEEN PANEL POINTS, G.C. TO COORDINATE FIELD INSTALLATION OF A STRUT TO TRANSFER CONCENTRATED LOAD TO A PANEL POINT ON THE OPPOSITE CHORD.

STEEL FLOOR DECK

FORM STEEL DECK SHALL BE GALVANIZED COMPOSITE DECK, BY VULCRAFT OR ENGINEER'S APPROVED EQUAL.

ALL STEEL DECK SHALL EXTEND CONTINUOUSLY ACROSS AT LEAST THREE SPANS AND BE FASTENED TO SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS SPACED AT 12 INCHES MAXIMUM. SHOP DRAWINGS SHALL SHOW THE REQUIRED FASTENER TYPE, SIZE AND SPACING AS WELL AS REQUIRED DECK REINFORCEMENT AT PENETRATIONS.

PROVIDE POUR STOPS AND CLOSURES AT COLUMNS AS REQUIRED.

PROVIDE STEEL ANGLE OR STEEL BENT PLATE AT SLAB EDGES AND CLOSURE PLATES FOR MECHANICAL OPENINGS UNLESS OTHERWISE NOTED.

ALL STEEL DECK SHALL HAVE A 3" MINIMUM BEARING LENGTH.

STEEL ROOF DECK

ROOF DECK SHALL BE GALVANIZED TYPE "B" STEEL DECK BY VULCRAFT OR ENGINEER'S APPROVED EQUAL.

ALL STEEL DECK SHALL EXTEND CONTINUOUSLY ACROSS AT LEAST THREE SPANS AND BE FASTENED TO SUPPORTING MEMBERS IWITH 5/8" DIAMETER PUDDLE WELDS AT 12" O.C. MAX. FASTEN SIDE LAPS WITH #10 SCREWS AT 36 INCH MAX. SPACING. SHOP DRAWINGS SHALL SHOW THE REQUIRED FASTENING TYPE, SIZE AND SPACING.

PROVIDE ALL NECESSARY CELL CLOSURES, EDGE STRIPS, CANTS, SUMP PANS, ETC., AS REQUIRED FOR A COMPLETE JOB WHETHER OR NOT SHOWN ON PLANS.

PROVIDE STEEL ANGLE OR STEEL BENT PLATE AT SLAB EDGES AND CLOSURE PLATES FOR MECHANICAL OPENINGS UNLESS OTHERWISE NOTED.

EPOXY ANCHOR

EPOXY INTO CONCRETE SHALL BE HILTI HIT-200. EPOXY INTO CMU SHALL BE HILTI HIT-270.

ANCHOR SHALL BE EITHER A36 THREADED ROD OR REINFORCING BAR.

INSTALLATION OF THE ANCHOR SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. DO NOT APPLY LOAD OR DISTURB THE ANCHOR UNTIL FULLY CURED.

PROJECT: BREWSTER CENTRAL SCHOOL DISTRICT - C.V. STARR INTERMEDIATE SCHOOL

DESIGN CRITERIA	
BUILDING CODE:	2015 INTERNATIONAL BUILDING CODE
CONCRETE DESIGN CODE:	ACI 318-14
STEEL DESIGN CODE:	AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, ASD
STEEL DESIGN METHOD:	ELASTIC ANALYSIS

DEAD LOAD

ROOF DECK:	40 PSF
ROOF WITH CONCRETE ON METAL DECK:	95 PSF
FIRST FLOOR CONCRETE ON METAL DECK:	95 PSF
GROUND FLOOR CONCRETE SLAB ON GRADE:	100 PSF

LIVE LOAD

ROOF DECK:	20 PSF
ROOF DECK SUPPORTING MECHANICAL EQUIPMENT:	95 PSF
ROOF CONCRETE ON METAL DECK SUPPORTING MECHANICAL EQUIPMENT:	100 PSF
FIRST FLOOR CORRIDOR:	100 PSF
GROUND FLOOR STORAGE:	100 PSF
GROUND FLOOR STORAGE:	125 PSF
GROUND FLOOR REMAINING AREAS:	100 PSF

SNOW LOAD

TERRAIN CATEGORY:	B
GROUND SNOW LOAD (Pg):	30 PSF
SNOW EXPOSURE FACTOR (Ce):	1.0
THERMAL FACTOR (Ct):	1.0
SNOW IMPORTANCE FACTOR (Is):	1.10
FLAT ROOF SNOW LOAD (Pf):	35 PSF

SEISMIC DATA

BUILDING RISK CATEGORY:	III
SEISMIC IMPORTANCE FACTOR (Ie):	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION (Ss):	21.9%
MAPPED SPECTRAL RESPONSE ACCELERATION (S1):	6.7%
SITE CLASS:	D
SPECTRAL RESPONSE ACCELERATION (SMS):	35.1%
SPECTRAL RESPONSE ACCELERATION (SM1):	16.2%
DESIGN SPECTRAL RESPONSE ACCELERATION (SDS):	23.4%
DESIGN SPECTRAL RESPONSE ACCELERATION (SD1):	10.8%
SEISMIC DESIGN CATEGORY:	B
BASIC SEISMIC FORCE RESISTING SYSTEM:	INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR (R):	3.5
DEFLECTION AMPLIFICATION FACTOR (Cd):	2.25
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE ANALYSIS

WIND LOAD

ULTIMATE DESIGN WIND SPEED:	123 MPH
WIND IMPORTANCE FACTOR (Iw):	1.0
WIND EXPOSURE CATEGORY:	B

COMPONENTS AND CLADDING SERVICE LEVEL WIND PRESSURES:

a = 10'-6"	
ROOF:	WALL AND OVERHANG:
ZONE 1: ±19 PSF	ZONE 4: ±20 PSF
ZONE 2: ±31 PSF	ZONE 5: ±25 PSF
ZONE 3: ±47 PSF	

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LICENCE EXP. DATE: 10-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT: C.V. STARR INTERMEDIATE SCHOOL
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
TYPICAL DETAILS

PROJECT # 23041

12-09-2024
03-05-2024
11-29-2023
08-31-2023
DATE

BID
S.E.D. SUBMISSION
D.D. SUBMISSION
S.D. SUBMISSION
ISSUED TO

SHEET SIZE
30"x42"

DRAWING NO.
CVS
S-401

SCALE
AS NOTED

DRAWN BY
F & D

FILE NO.
23505.02