

GENERAL NOTES:

- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

DESIGN NOTES:

- STRUCTURAL ALTERATIONS TO THE STRUCTURE ARE DESIGNED TO COMPLY WITH THE 2015 EDITION OF "THE INTERNATIONAL BUILDING CODE" AND THE 2010 EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", ASCE 7-10
- FLOOR LIVE LOADS
 - STAIRS AND EXIT WAYS: 100 PSF
- ROOF LOADS:
 - GROUND SNOW LOAD $P_g = 90$ PSF
 - FLAT ROOF SNOW LOAD
 - BUILDING PF = 63 PSF
 - SNOW EXPOSURE FACTOR $C_e = 1.0$
 - SNOW IMPORTANCE FACTOR $I = 1.0$
 - THERMAL FACTOR: 1.0
 - DRIFTED SNOW LOADS IN ACCORDANCE WITH ASCE 7-10.

FOUNDATION NOTES:

- FOUNDATIONS ARE DESIGNED FOR A PRESUMED ALLOWABLE SOILING BEARING PRESSURE OF 2,000 PSF.
- FOOTINGS SHALL BEAR ON CRUSHED STONE OVER UNDISTURBED NATIVE SOILS OR LEDGE.
- PROVIDE 5'-6" MINIMUM SOIL COVER OVER FOOTINGS SUBJECT TO FREEZING TEMPERATURES.
- BACKFILL FOUNDATION WALLS WITH SOIL CLASSIFICATION 6M, 6P, 5M, OR 5P AS DEFINED IN THE UNIFIED SOIL CLASSIFICATION SYSTEM.
- STRUCTURAL FILL SHALL BE UNIFORMLY GRADED GRANULAR SOIL, FREE OF ORGANIC MATTER, CONTAMINANTS, FROZEN MATERIAL AND OTHER DELETERIOUS SUBSTANCES. PROVIDE MATERIAL MEETING THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSED BY WEIGHT
4"	100
3"	90-100
1/4"	25-90
#40	0-30
#200	0-5

- CRUSHED STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSED BY WEIGHT
1"	100
3/4"	90-100
3/8"	0-75
#4	0-25
#10	0-5

- PROVIDE PERIMETER FOUNDATION DRAINAGE CONTINUOUSLY AROUND THE NEW FOOTING. FOUNDATION DRAINAGE SHALL CONSIST OF A 4 INCH DIAMETER RIGID PVC OR HDPE PIPE WITH PERFORATIONS, 1/4 TO 5/8 INCH, DIRECTED DOWNWARD. SLOPE DRAIN PIPE A MINIMUM OF 1/32 INCH PER FOOT. USE SOLID PIPE TO CONNECT PERIMETER FOUNDATION DRAINAGE TO CATCH BASINS OR WHEN DRAINING TO DAYLIGHT. SURROUND PERFORATED DRAINAGE PIPE WITH 6 INCHES OF CRUSHED STONE AND WRAP WITH FILTER FABRIC, MIRAFI 140-N OR EQUAL. COORDINATE TERMINATION OF DRAINAGE PIPE WITH OWNER. RECOMMENDED LOCATION IS NORTHERN MOST CORNER OF EXISTING BUILDING.

CONCRETE NOTES:

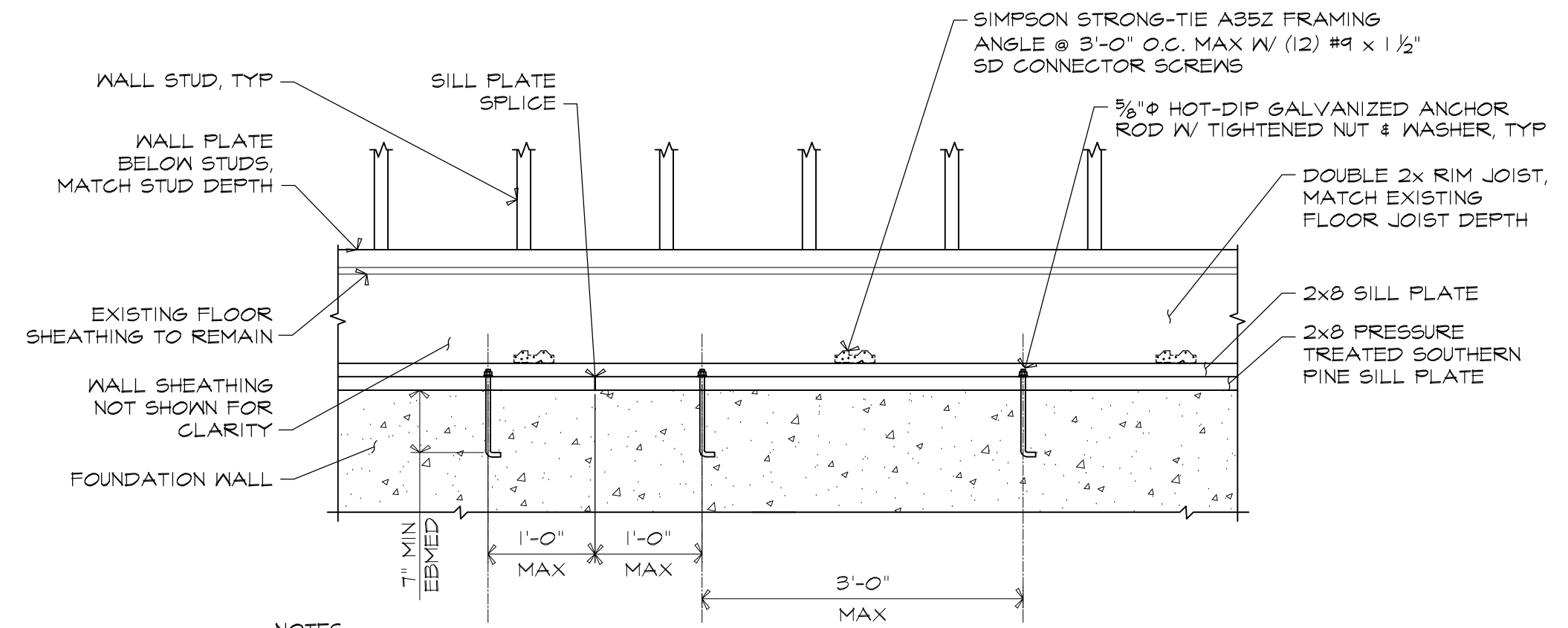
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS IN ACI 318-14, ACI 301-10 & ACI 117-10.
- CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
 - EXTERIOR CONCRETE INCLUDING FOUNDATIONS: 4500 PSI
- ALL CONCRETE EXPOSED TO FREEZE-THAW CYCLES IN SERVICE SHALL BE AIR ENTRAINED FOR EXPOSURE CLASS F2 PER ACI 318.
- NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- DURING COLD WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 306, COLD WEATHER CONCRETE PRACTICES. MAINTAIN CONCRETE TEMPERATURE ABOVE 50 DEGREES F FOR 7 DAYS AFTER PLACEMENT.
- ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
- REINFORCEMENT SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER:
 - CONCRETE DEPOSITED ON THE GROUND: 3"
 - CONCRETE EXPOSED TO THE GROUND OR WEATHER: 2"
 - CONCRETE NOT EXPOSED TO THE GROUND OR WEATHER: 1"
- ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315).
- ALL LAP SPLICES SHALL BE CONSIDERED CLASS B TENSION LAP SPLICES PER ACI 318 UNLESS OTHERWISE NOTED.
- ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36.
- CONSOLIDATE CONCRETE WITH A MECHANICAL VIBRATOR USING EQUIPMENT AND PROCEDURES SPECIFIED IN ACI 309R. DO NOT UTILIZE VIBRATORS TO TRANSPORT CONCRETE WITHIN FORMS.
- MAINTAIN CONCRETE CONTINUOUSLY MOIST WITH TEMPERATURE ABOVE 50 DEGREES F FOR 7 DAYS AFTER PLACEMENT. ACCEPTABLE CURING METHODS INCLUDE:
 - LEAVING FORMS ON FORMED SURFACES.
 - COATING SURFACES WITH AN APPROVED CURING COMPOUND. DO NOT USE CURING COMPOUND WHERE ITS PRESENCE WILL INTERFERE WITH SUCCESSIVE SURFACE TREATMENTS.
 - COVERING WITH MOISTURE-RETAINING COVER COMPLYING WITH ASTM C1171.
 - COVERING WITH ABSORPTIVE COVER, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ PER SQ YD, COMPLYING WITH AASHTO M182, CLASS 2. MAINTAIN ABSORPTIVE COVER WET THROUGHOUT CURING PERIOD.
 - OTHER CURING METHODS MAY BE ACCEPTABLE SUBJECT TO APPROVAL.

WOOD FRAMING NOTES:

- DIMENSIONED LUMBER SPECIFIED SHALL BE #2 OR BETTER, SPRUCE-PINE-FIR GRADED UNDER NLS&A RULES EXCEPT WHERE OTHERWISE INDICATED.
 - WHERE PRESSURE TREATED FRAMING IS INDICATED, PROVIDE #2 GRADE OR BETTER SOUTHERN PINE GRADED UNDER SP18 RULES.
- WHERE PRESSURE TREATMENT IS INDICATED, PROVIDE MICRONIZED COPPER QUAT WOOD PRESERVATIVE TREATED FOR USE CATEGORY UC3B IN ACCORDANCE WITH ANPA U1-14.
- ALL SUBSTITUTION REQUESTS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
- WHERE FASTENING IS NOT SPECIFIED, PROVIDE FASTENING IN ACCORDANCE WITH TABLE 2304.10.1 FROM THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE.
- PROPRIETARY FRAMING CONNECTORS SHALL BE PRODUCTS FROM SIMPSON STRONG-TIE UNLESS OTHERWISE INDICATED. INSTALL WITH ALL FASTENERS RECOMMENDED BY THE MANUFACTURER UNLESS OTHERWISE NOTED. WHERE MORE THAN ONE FASTENING RECOMMENDATION EXISTS, INSTALL THE FASTENERS SPECIFIED FOR THE HIGHEST CAPACITY UNLESS OTHERWISE NOTED.
- WHERE TOENAILED FASTENERS ARE SPECIFIED, INSTALL FASTENERS AT 60 DEGREES FROM THE SUPPORTING MEMBER. LOCATE THE PENETRATION INTO THE SUPPORTED MEMBER AT 1/3 THE NAIL LENGTH FROM THE MEMBER END.

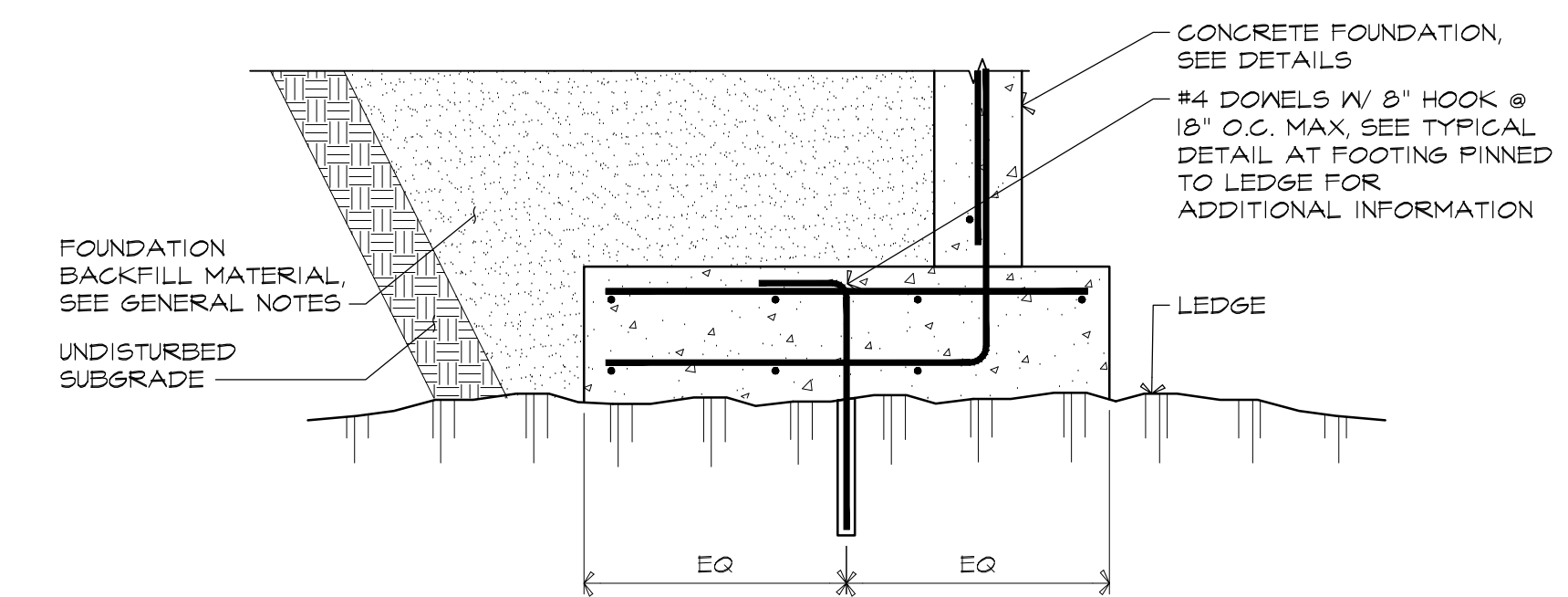
WOOD WALL SHEATHING NOTES:

- INSTALL 3/4" THICK APA RATED SHEATHING WITH SPAN RATINGS 48/24, EXPOSURE 1.
- INSTALL WITH LONG DIRECTION ACROSS STUDS.
- FASTEN WALL SHEATHING TO SUPPORTING FRAMING WITH 10d NAILS. SPACE NAILS AT 6" O.C. MAX AT SUPPORTED EDGES AND AT 12" O.C. MAX AT INTERMEDIATE PANEL SUPPORTS.

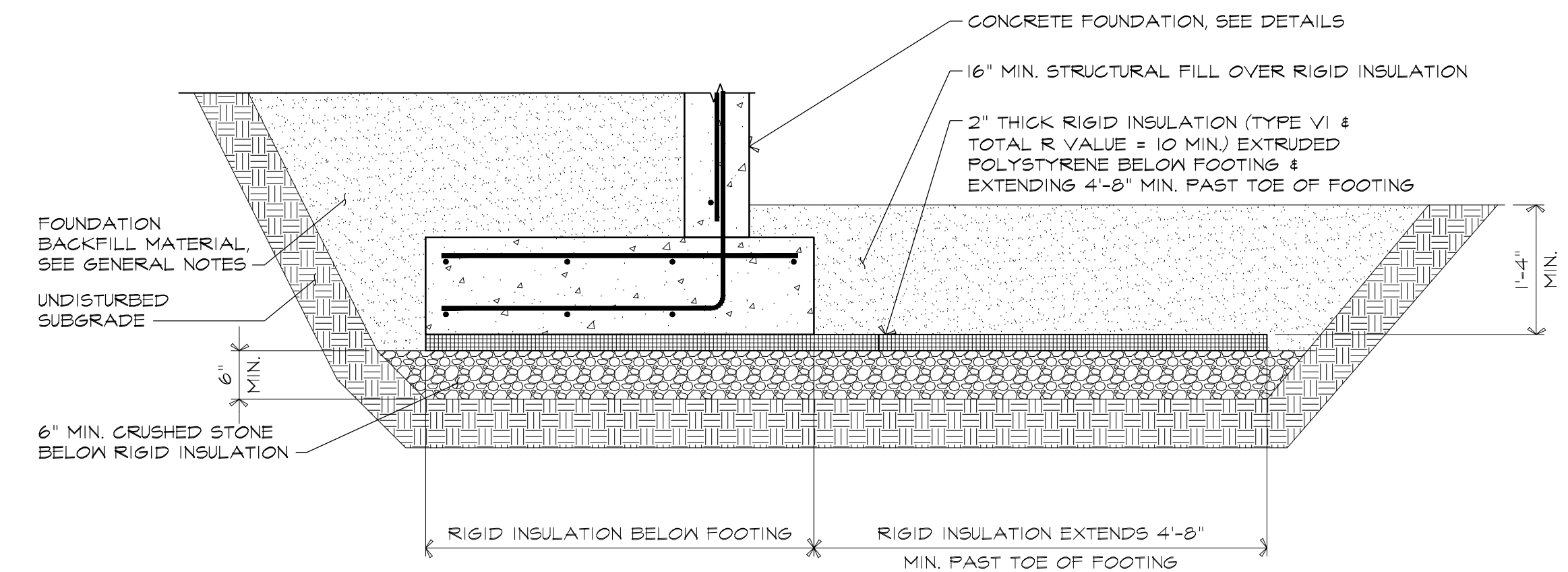


- NOTES:**
- ANCHOR BOLTS SHALL BE SPACED NOT MORE THAN 3'-0" ON CENTER.
 - ANCHOR BOLTS SHALL EXTEND A MINIMUM OF 7" INTO CONCRETE FOUNDATION.
 - ANCHOR BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SILL PLATE.
 - A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT.
 - THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER SILL PLATE SECTION WITH (1) BOLT LOCATED NOT MORE THAN 12" OR LESS THAN (7) BOLT DIAMETERS FROM THE END OF THE SILL PLATE SECTION.

1 TYPICAL SILL PLATE/ ANCHOR BOLT LAYOUT 3/4"=1'-0"

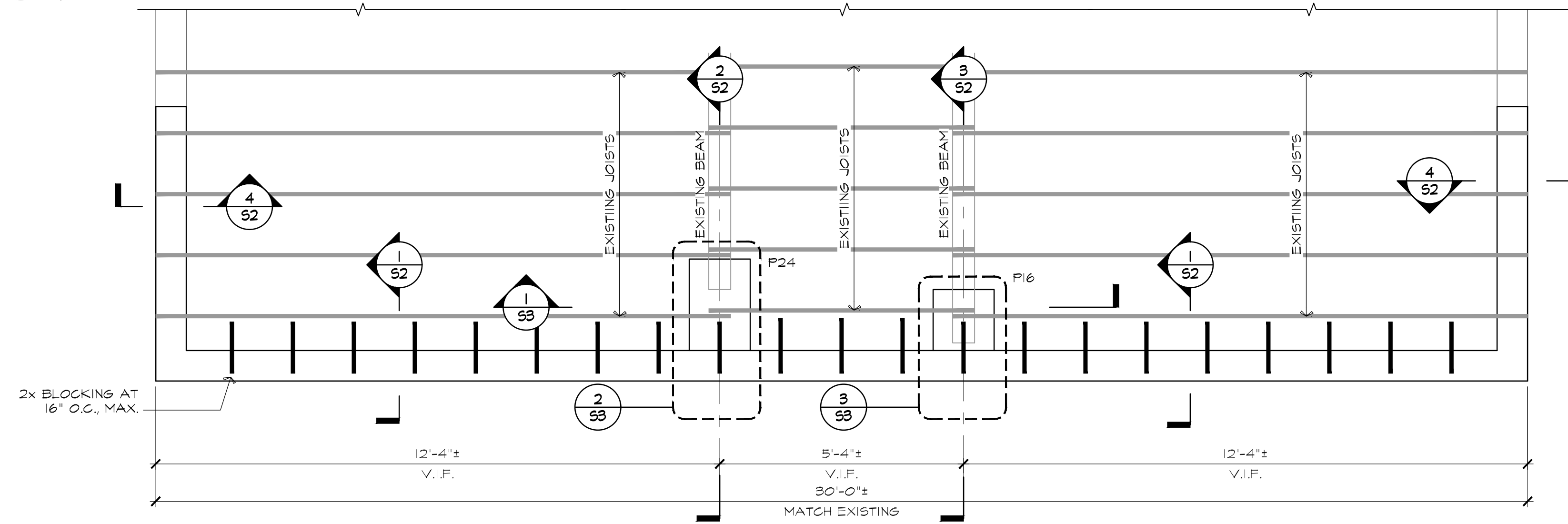
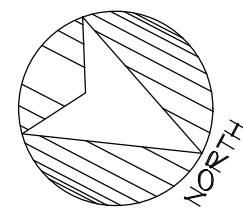


2 FOOTING BEARING ON LEDGE 3/4"=1'-0"

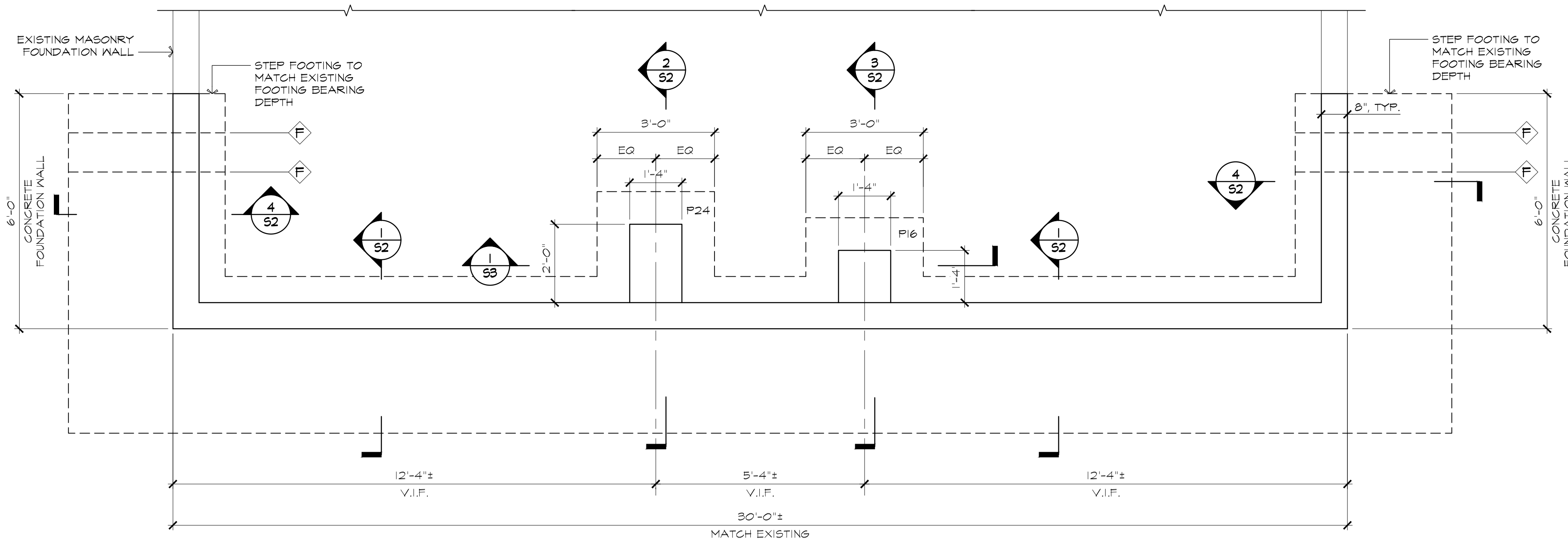


3 FROST PROTECTED FOOTING BEARING ON SOIL 3/4"=1'-0"

REVISION	
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DRAWN BY: S/MAN CHECKED BY: M/AC ISSUE DATE: 1-5-2022 PROJ. NO.: 2021.1414	
Mountain View Correctional Facility Industrial Bldg. Foundation Repair Charlestown, Maine	
GENERAL STRUCTURAL NOTES & SECTIONS	
Lincoln / Haney Engineering Associates, Inc. 14 Maine Street, Suite 306A Box 7 Brunswick, Maine 04011 Phone: 207-729-1061 Fax: 207-729-2941	
S0.1	



PARTIAL FLOOR FRAMING REPAIR PLAN
1/2"=1'-0"



PARTIAL FOUNDATION REPAIR PLAN
1/2"=1'-0"

KEY PLAN
NO SCALE

SHEET NOTES:

- SEE SHEET S0.1 FOR GENERAL NOTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, REMOVE, AND/OR RE-INSTALL ALL MECHANICAL, ELECTRICAL, AND PLUMBING UTILITIES AFFECTED BY THE WORK. COORDINATE WITH THE OWNER.
- TOP OF WALL ELEVATION SHALL BE 3" BELOW BOTTOM OF EXISTING JOISTS FOR INSTALLATION OF (2)-2x PLATES ON TOP OF CONCRETE FOUNDATION WALL.
- TOP OF PIER ELEVATION SHALL BE 8" BELOW BOTTOM OF EXISTING BEAMS FOR INSTALLATION OF (2)-2x PLATES ON TOP OF CONCRETE PIERS.

LEGEND:

- INDICATES FOOTING STEP, SEE TYPICAL DETAIL ON SHEET S3
- INDICATES PIER, SEE PIER SCHEDULE AND DETAILS

PIER SCHEDULE			
LABEL	PLAN DIMENSION	VERTICAL REINFORCING	HORIZONTAL REINFORCING
P16	16" X 16"	(10) - #5 BARS	#3 TIES @ 12" O.C. MAX
P24	24" X 16"	(12) - #5 BARS	#3 TIES @ 12" O.C. MAX

PIER NOTES:

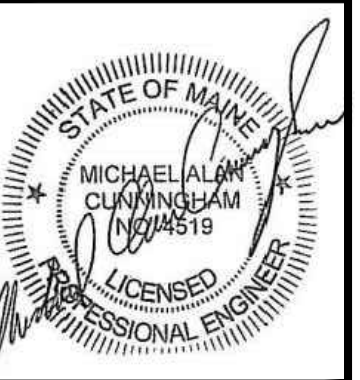
- VERTICAL PIER REINFORCING SHALL BE TIED W/ #3 REBAR AS PER ACI 318 LATEST EDITION AND AS SHOWN IN TYPICAL DETAILS.
- PROVIDE (3) - #3 TIES WITHIN TOP 5' AT THE TOP OF EACH PIER.
- THE FIRST TIE ABOVE THE FOOTING SHALL BE LESS THAN 4" FROM THE TOP OF THE FOOTING.
- DOWELS TO FOOTING SHALL BE SAME SIZE AND SPACING OF VERTICAL PIER BARS. PROVIDE CLASS B TENSION LAP SPLICES.
- REFER TO GENERAL CONCRETE NOTES FOR COVER REQUIREMENTS.
- REFER TO SECTIONS FOR FOUNDATION WALL REINFORCING. WALL REINFORCING SHALL BE CONTINUOUS THROUGH PIERS.
- REFER TO FOUNDATION PLAN FOR TOP OF PIER ELEVATIONS.

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1	4-8-22	RE-ISSUED FOR BID

Mountain View Correctional Facility
Industrial Bldg. Foundation Repair
Charleston, Maine

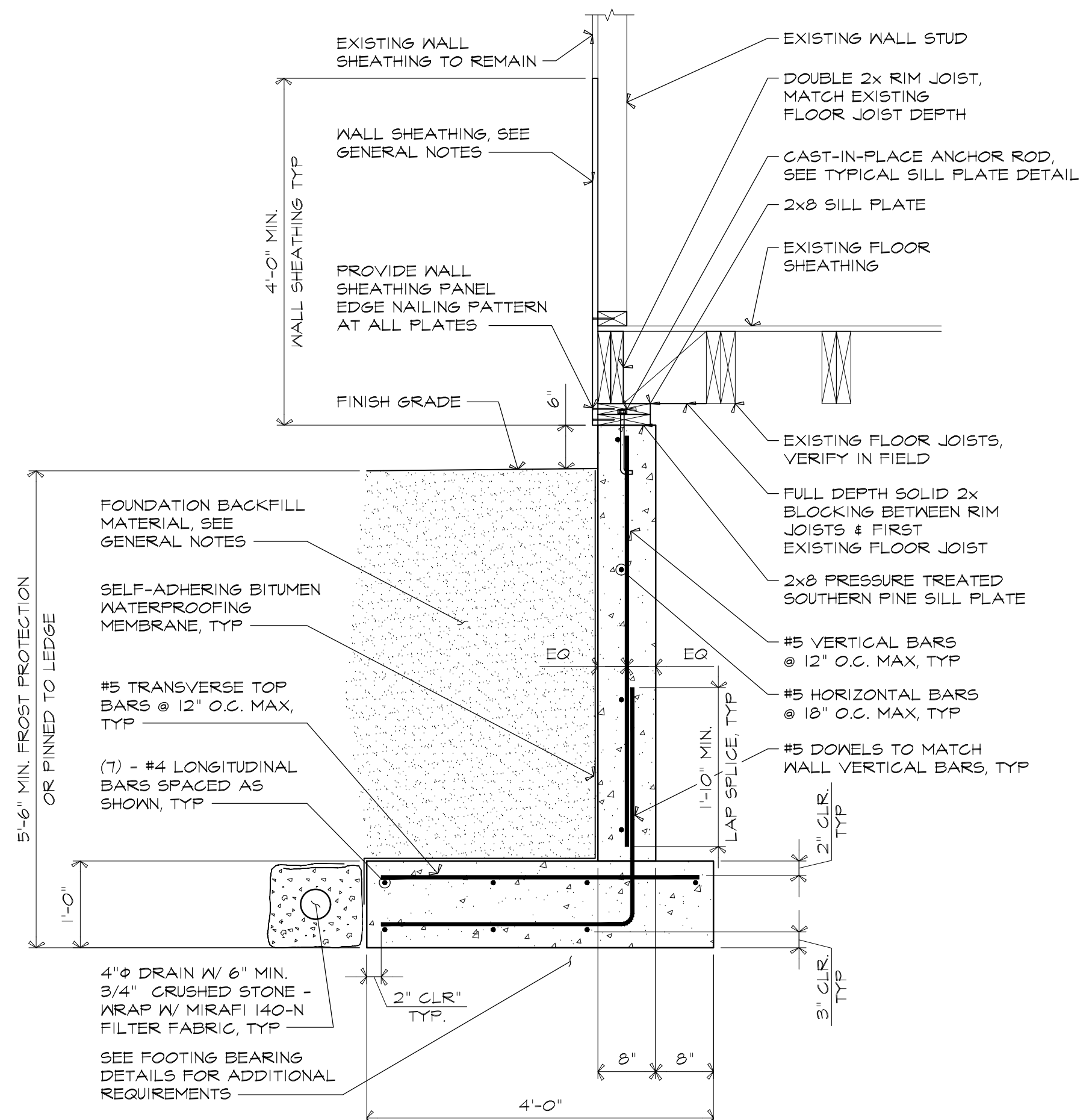
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PARTIAL FOUNDATION AND FRAMING PLANS

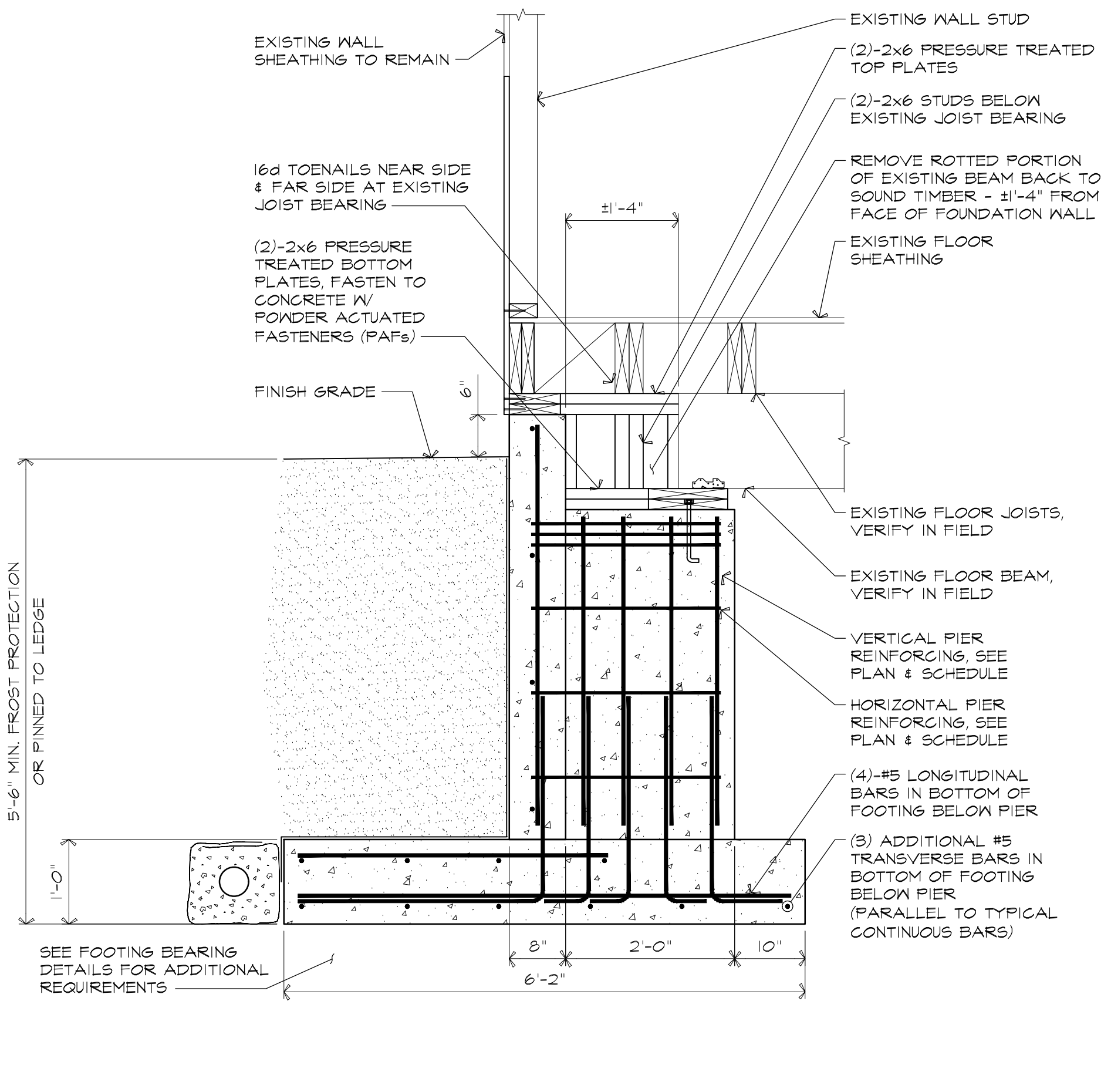


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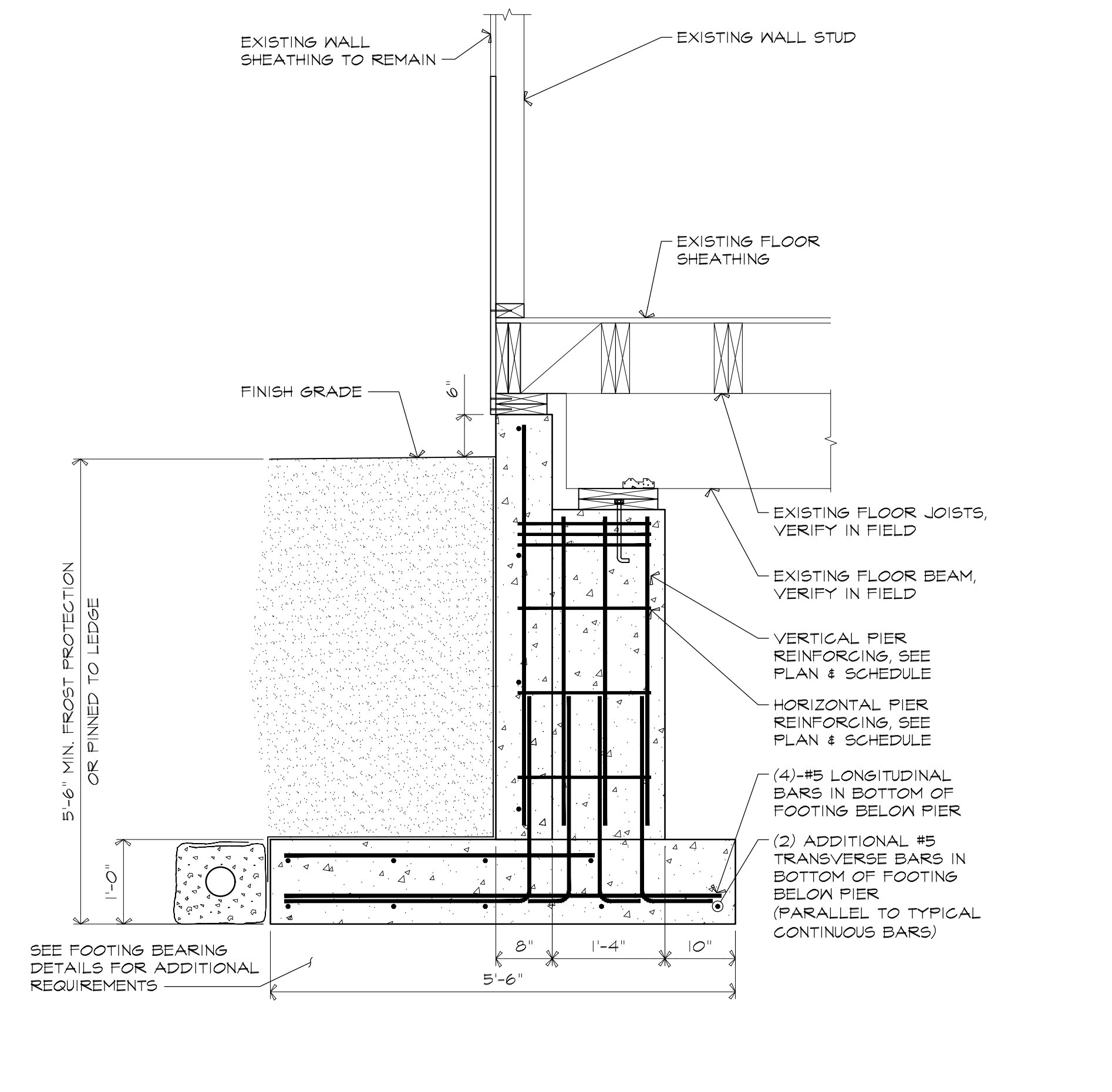
S1



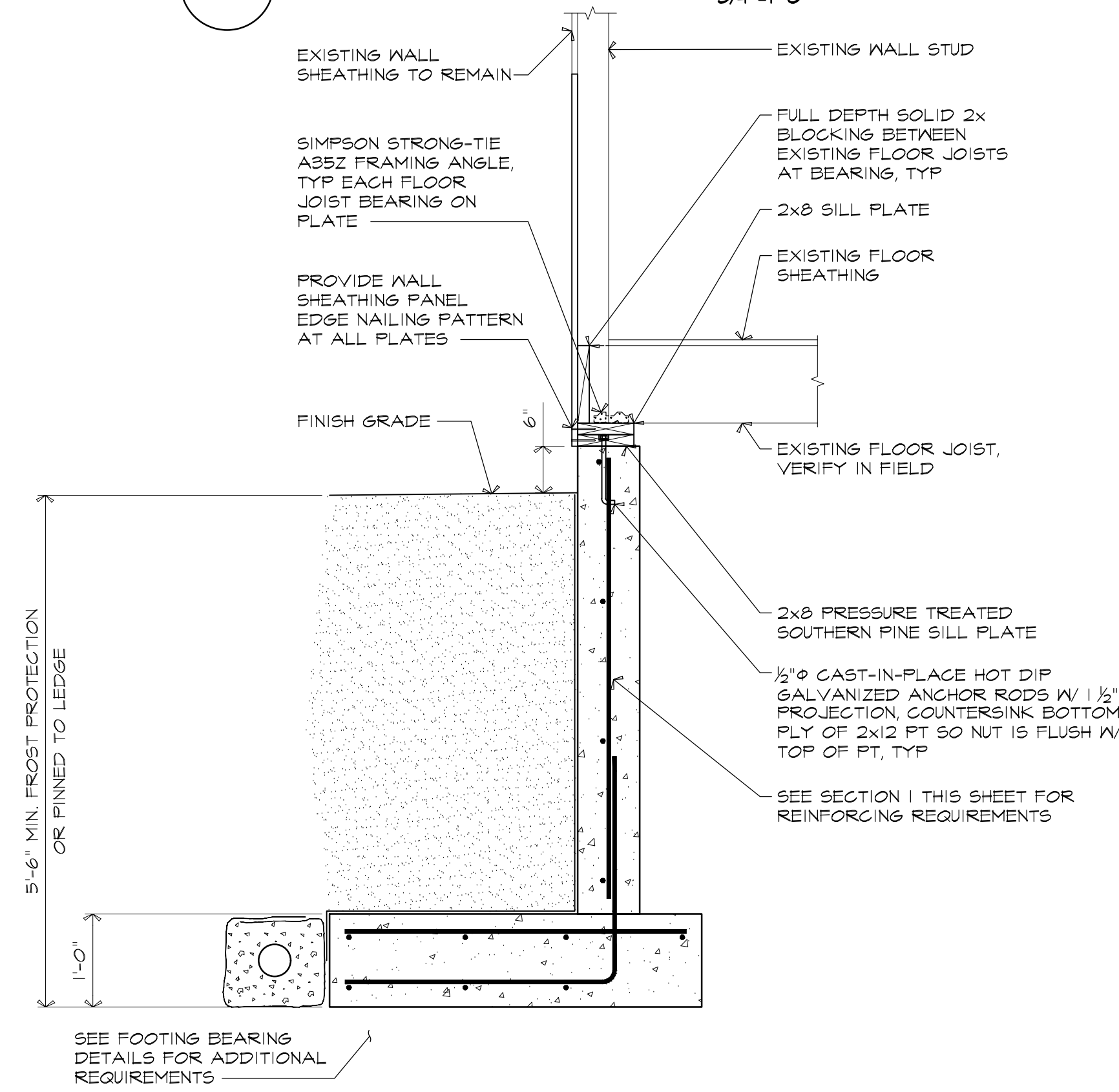
1 SECTION 3/4"=1'-0"



2 SECTION 3/4"=1'-0"

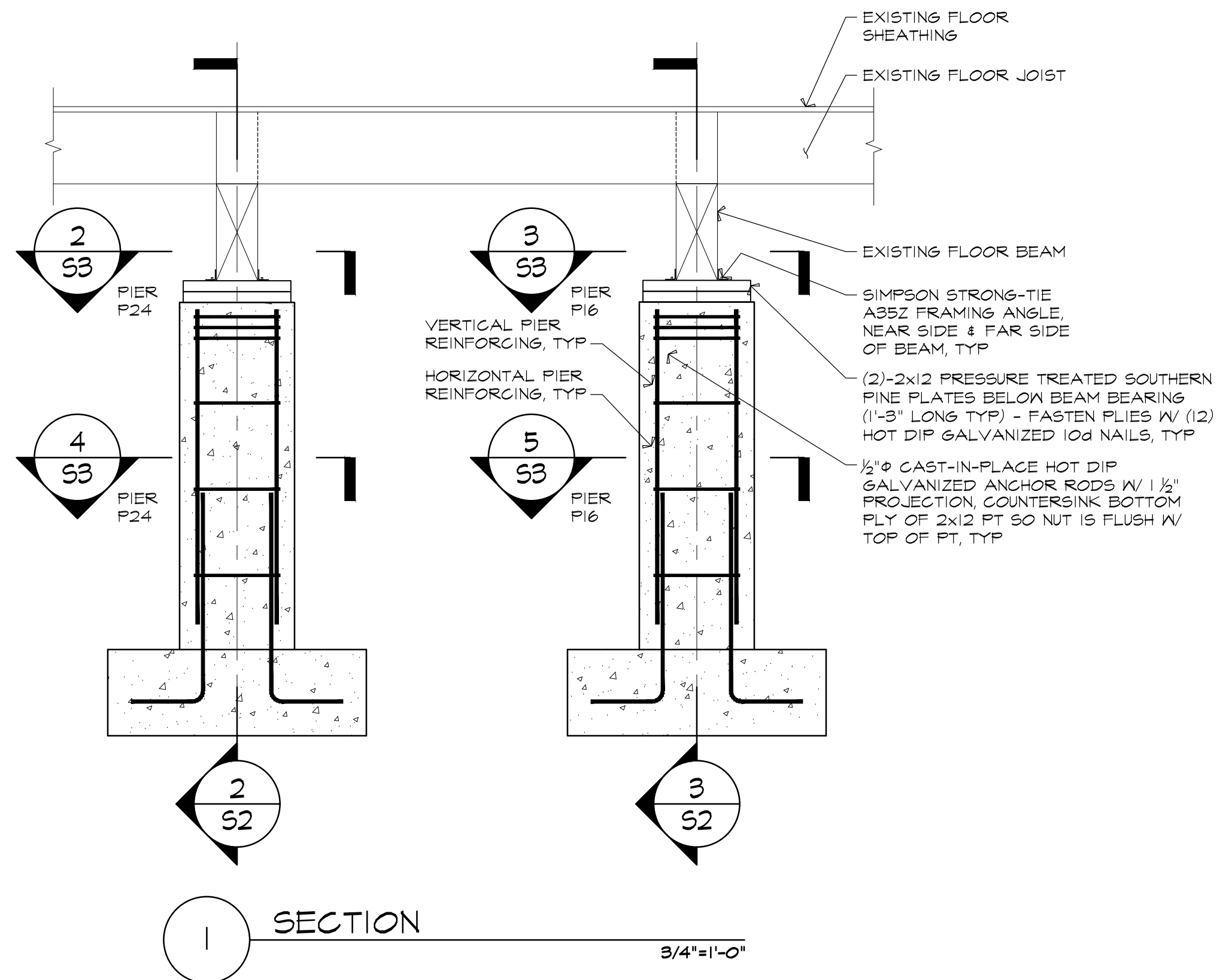


3 SECTION 3/4"=1'-0"

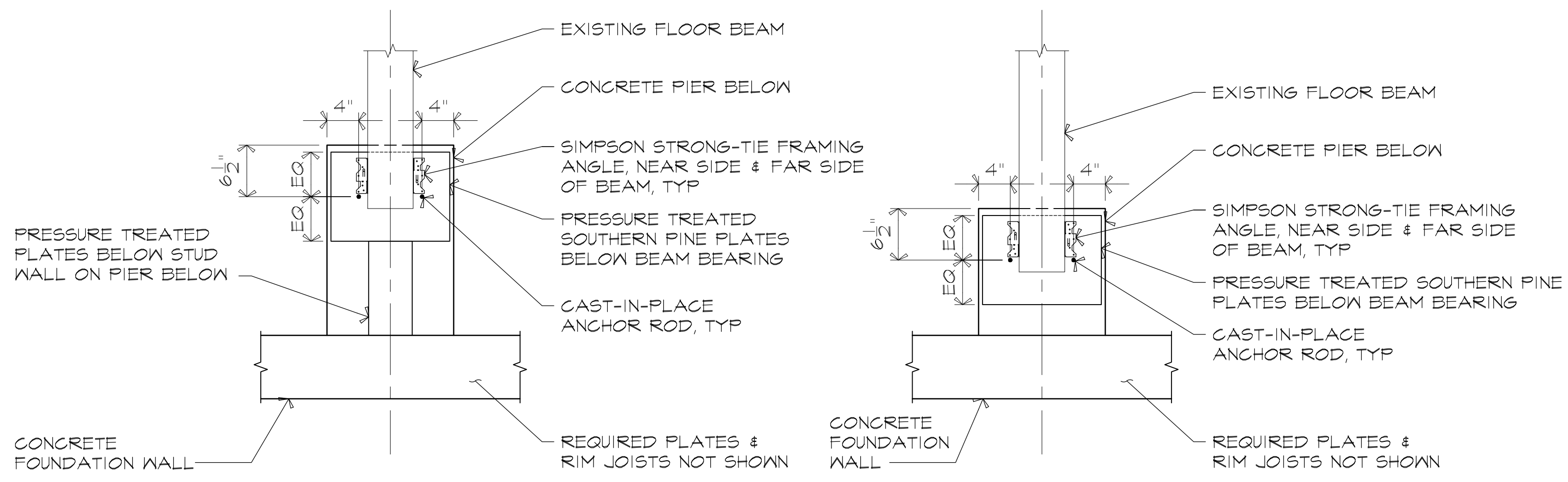


4 SECTION 3/4"=1'-0"

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<p>Mountain View Correctional Facility Industrial Bldg. Foundation Repair Charleston, Maine</p>					
SECTIONS AND DETAILS					
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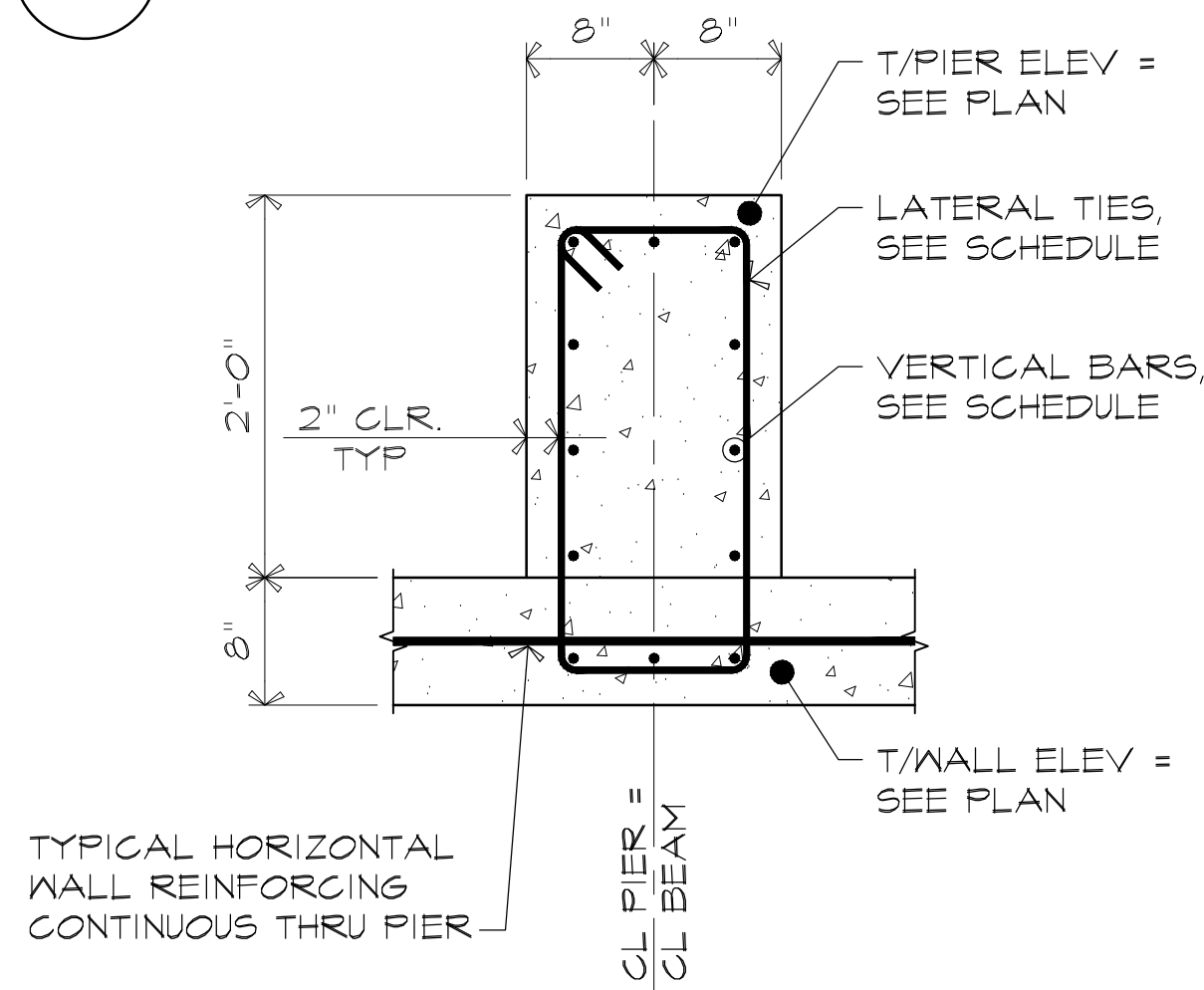


1 SECTION
3/4"=1'-0"

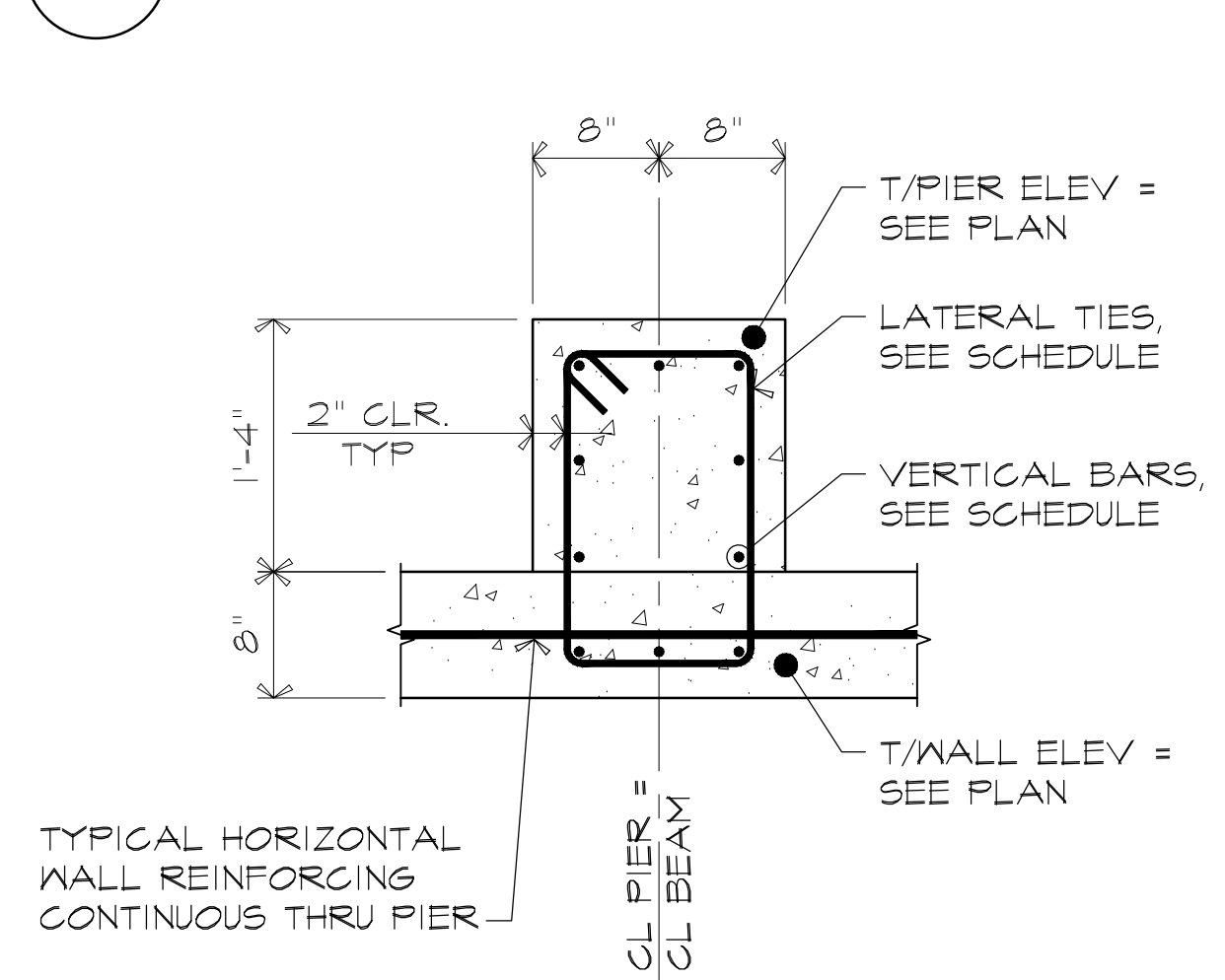


2 BEAM BEARING DETAIL AT P24
1"=1'-0"

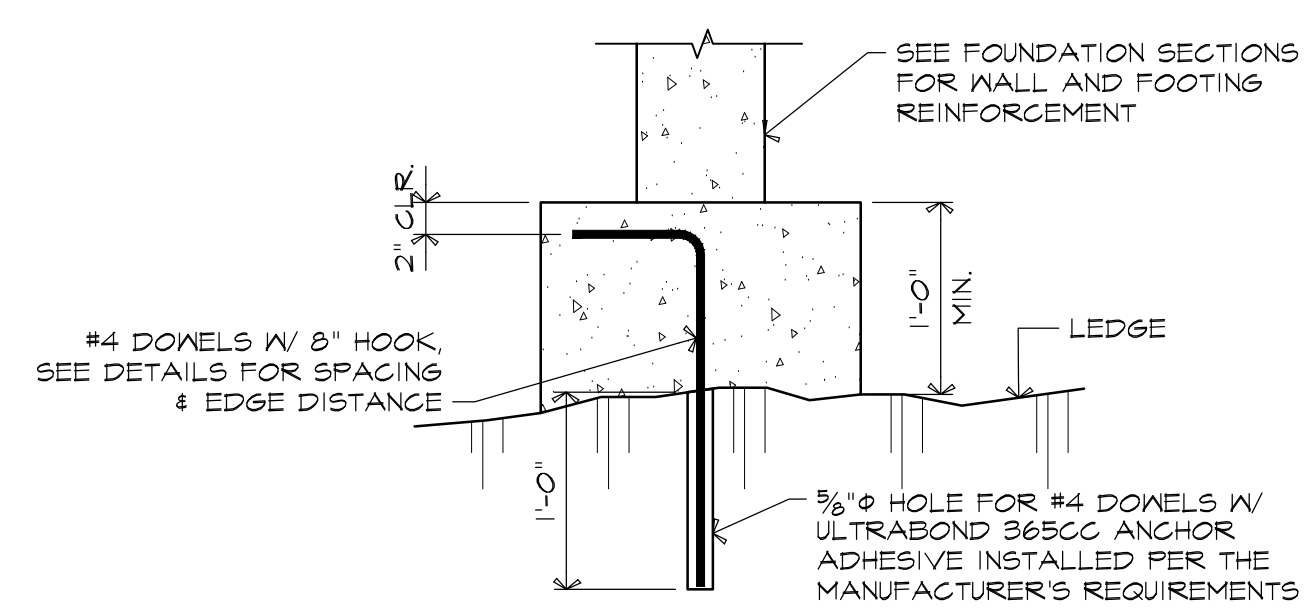
3 BEAM BEARING DETAIL AT P16
1"=1'-0"



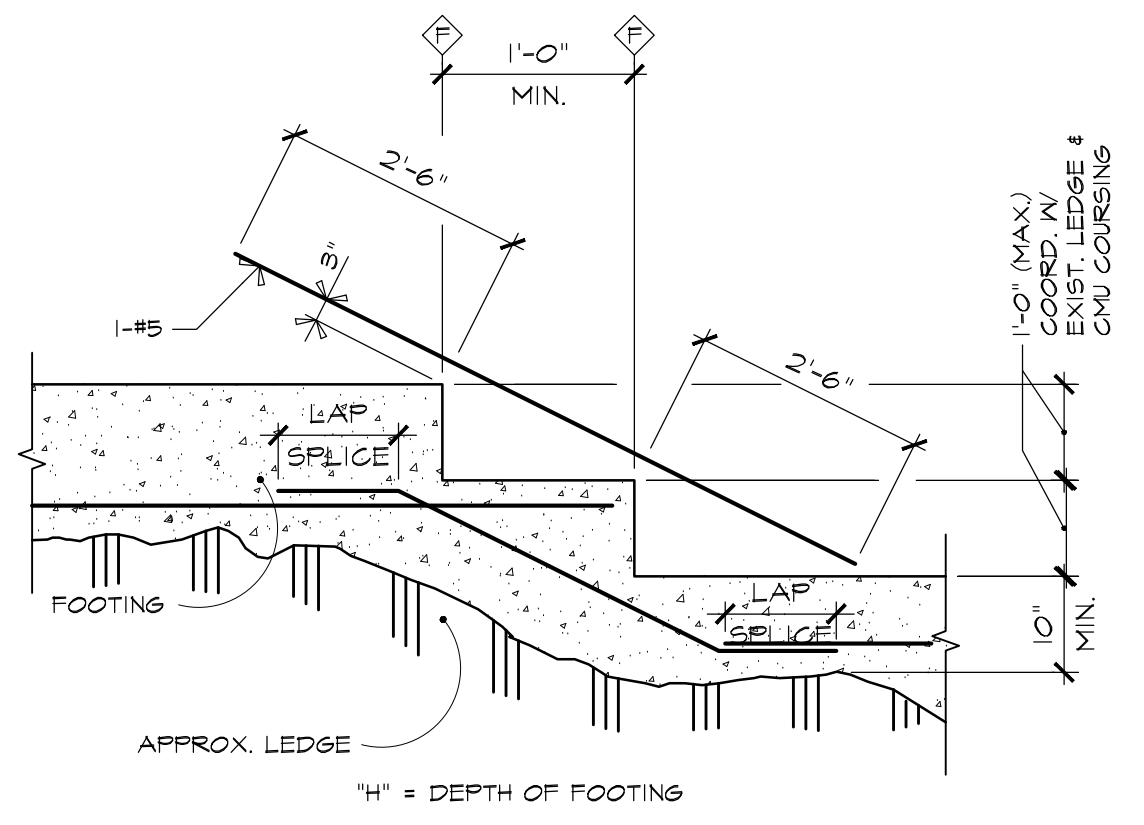
4 PIER DETAIL - P24
1"=1'-0"



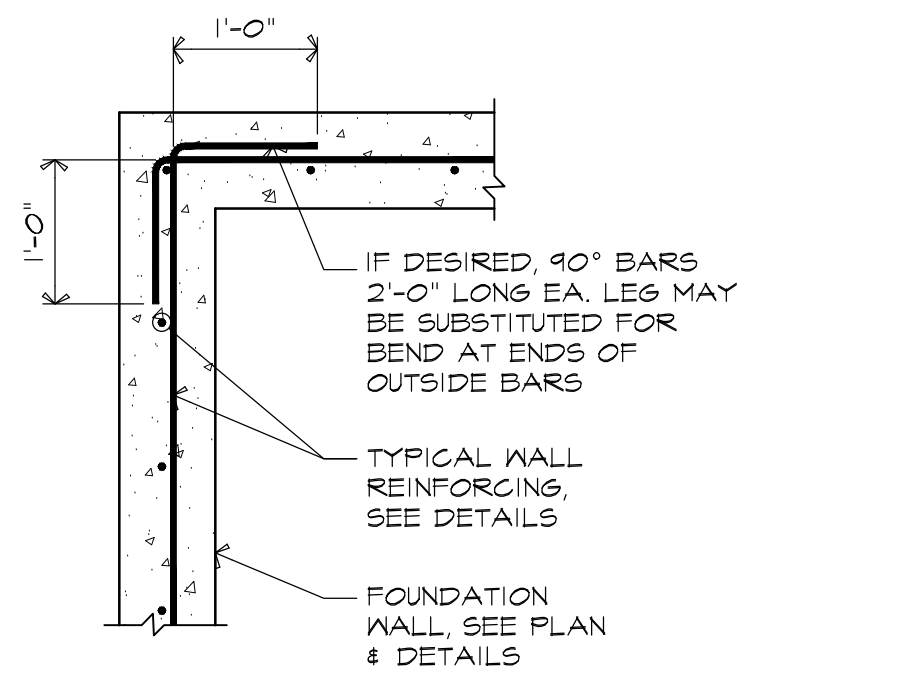
5 PIER DETAIL - P16
1"=1'-0"



6 TYPICAL DETAIL AT FOOTING PINNED TO LEDGE
1"=1'-0"



7 TYPICAL STEPPED FOOTING
1/2"=1'-0"



8 TYPICAL FOUNDATION WALL REINFORCEMENT
3/4"=1'-0"

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PROJECT: Mountain View Correctional Facility Industrial Bldg. Foundation Repair
 LOCATION: Charleston, Maine

MICHAEL ALAN CLUNNINGHAM
 LICENSED PROFESSIONAL ENGINEER

SECTIONS AND DETAILS

S3