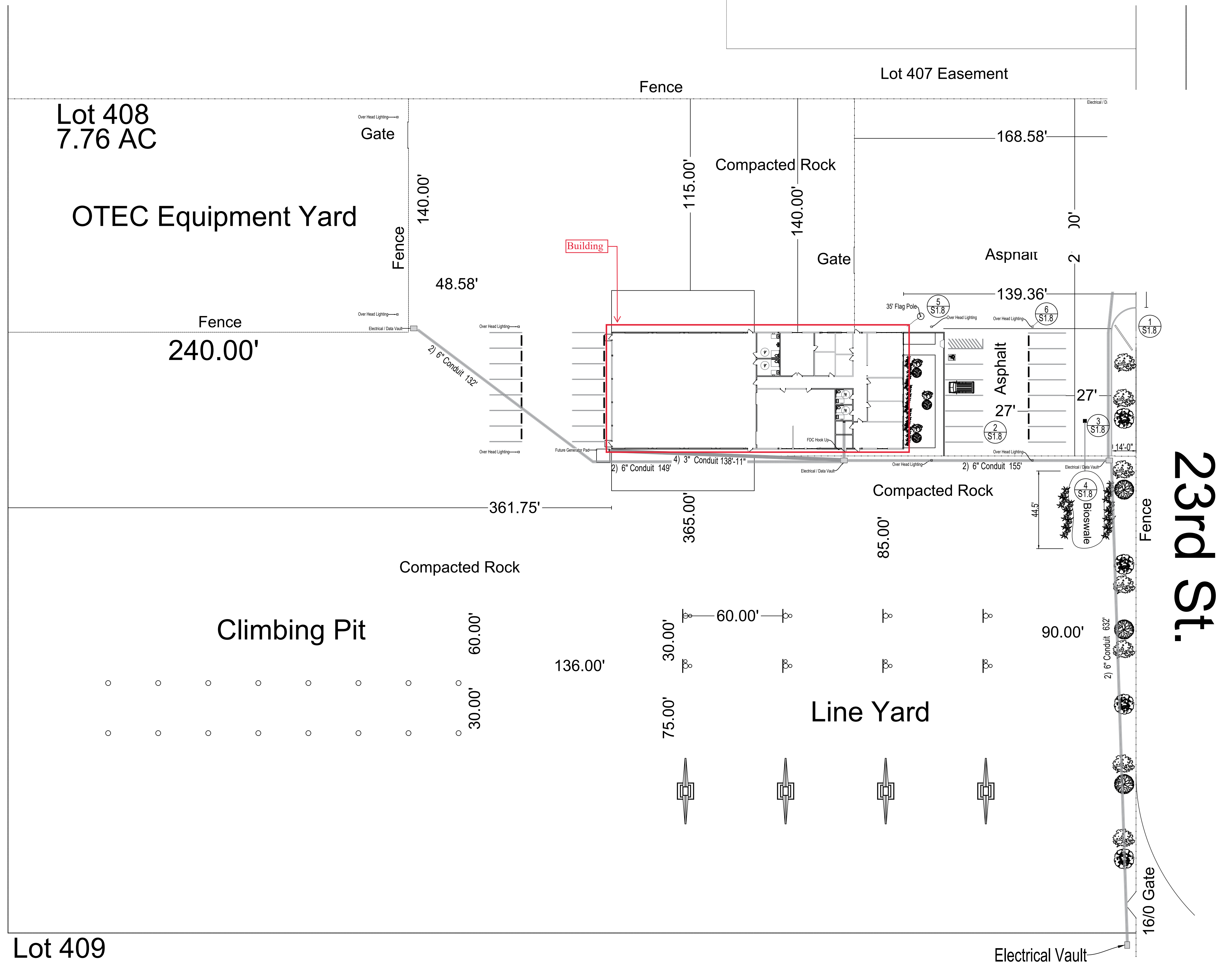
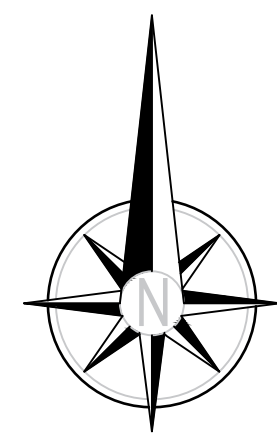


SITE OVERVIEW



23rd St.



1435 3rd St.
Baker City, OR 97814
Ph 541-805-4378

Apex Elite Line Academy
23rd St.
Baker City, 97814

Revisions:

- 4.13.24
- 5.20.24
- 9.3.24
- 9.13.24
- 10.24.24
- 11.14.24
- 12.16.24

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Drawn By: RD

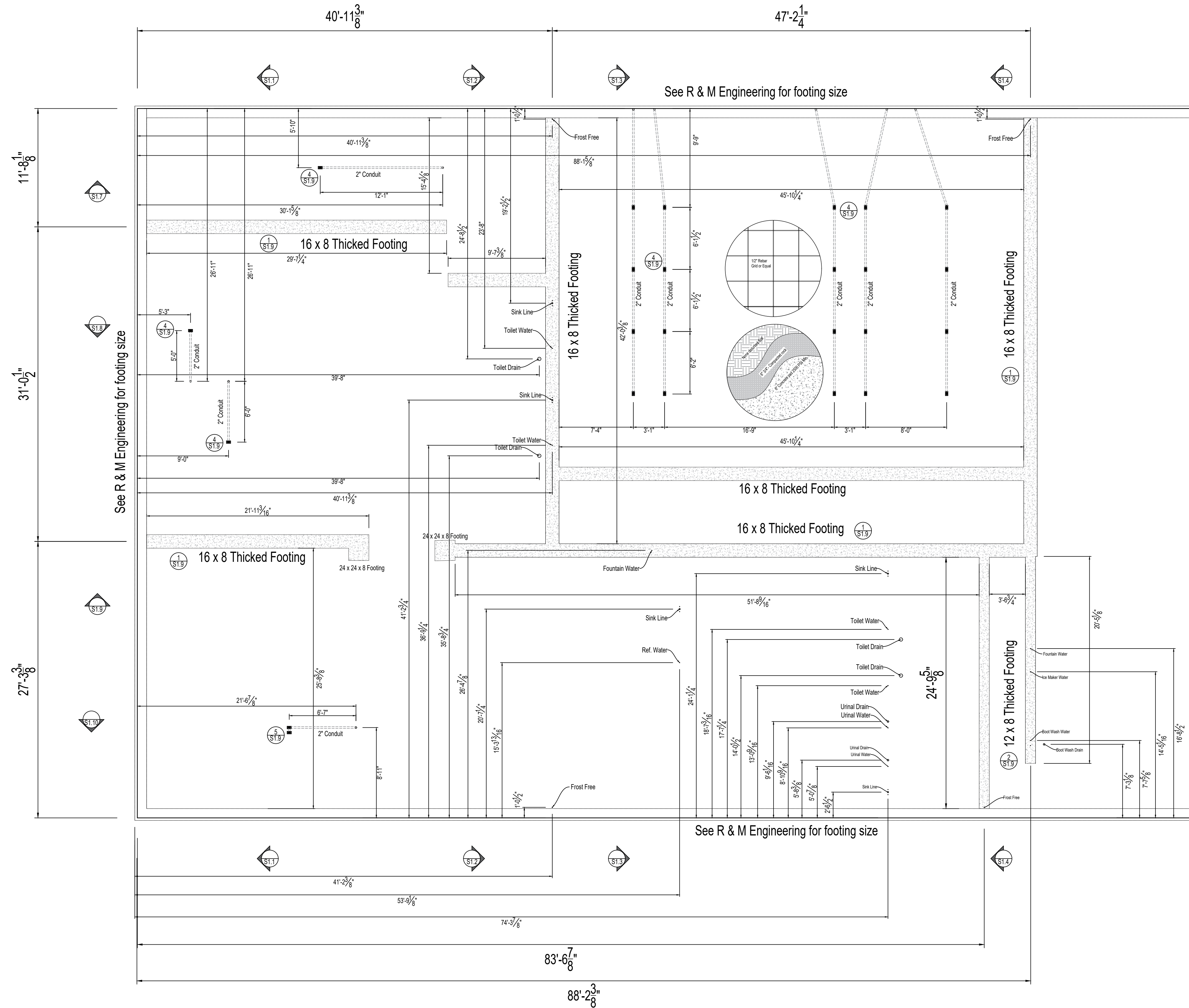
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Sheet Title:

School Yard

A1.2

INTERIOR FOUNDATION DETAIL



1435 3rd St.
Baker City, OR 97814
Ph 541-805-4378

Apex Elite Line Academy
23rd St.
Baker City, 97814

Revisions:

- 4.13.24
- 5.20.24
- 9.3.24
- 9.13.24
- 10.24.24
- 11.14.24
- 12.16.24

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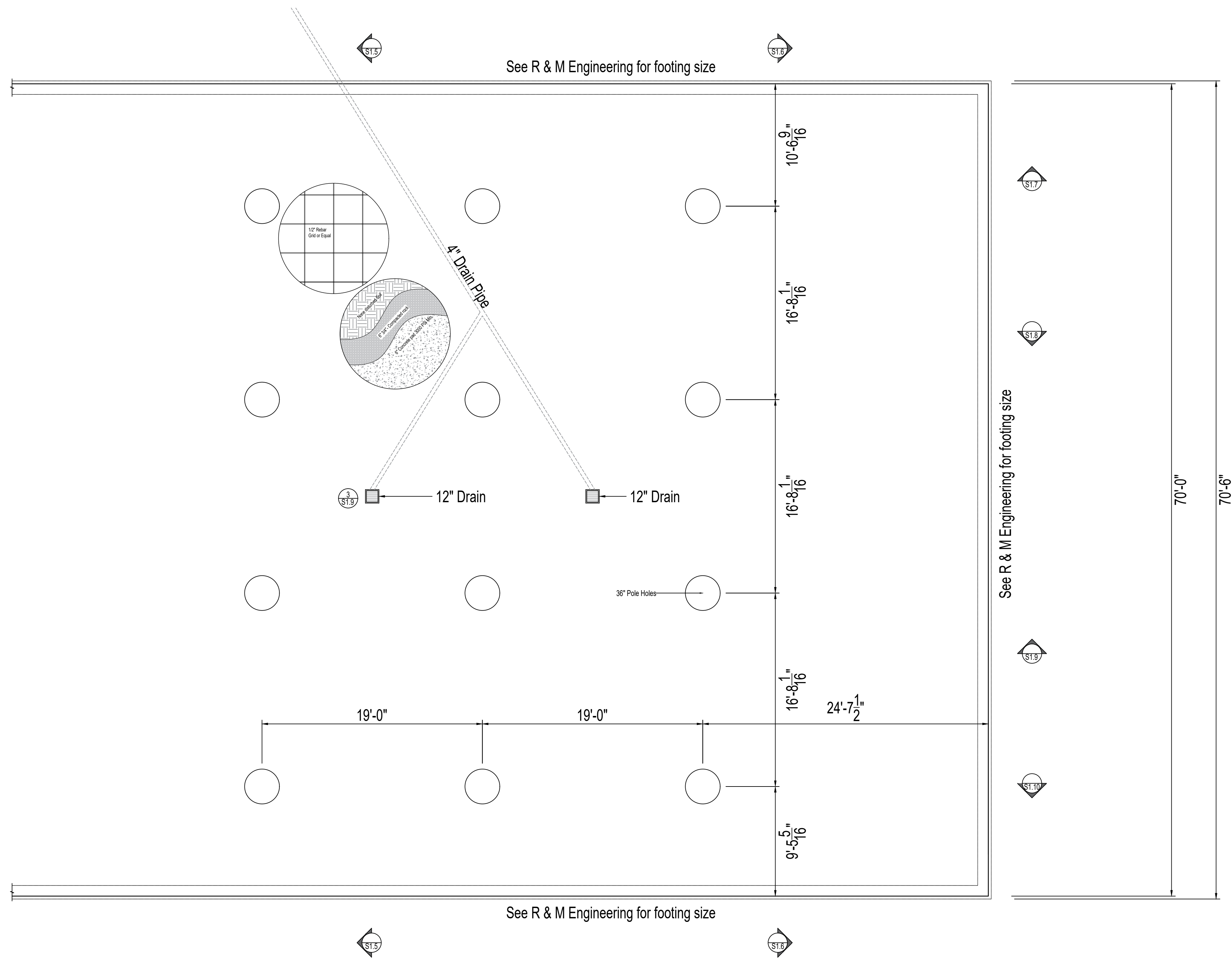
Drawn By: RD

Scale: 3/16" = 1'

Sheet Title:
Foundation Plan

D1.2

TRAINING AREA DETAIL



1435 3rd St.
Baker City, OR 97814
Ph 541-805-4378

Apex Elite Line Academy
23rd St.
Baker City, 97814

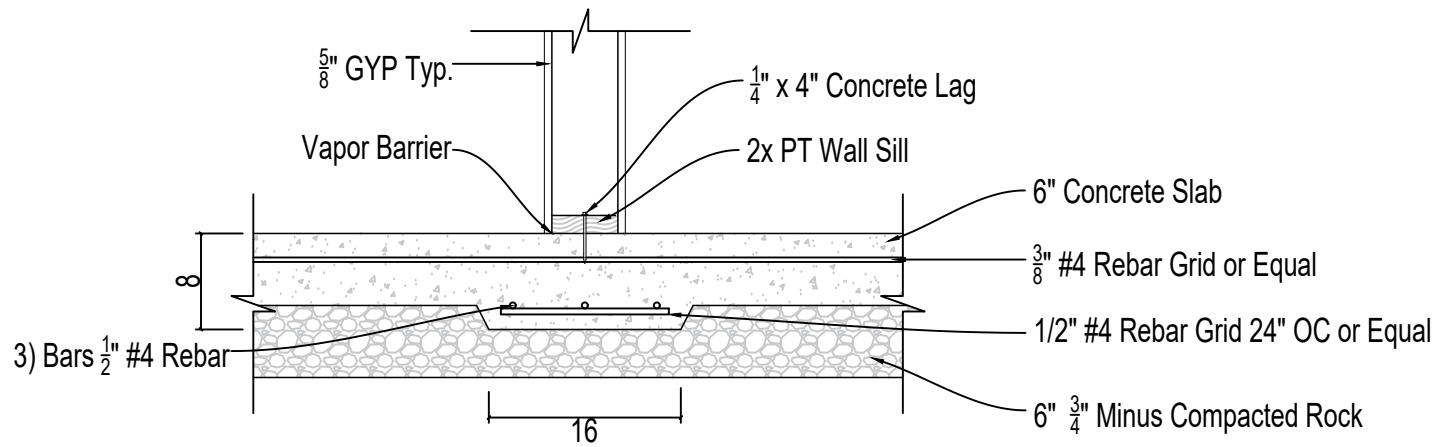
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4.13.24
5.20.24
9.3.24
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12.16.24

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Sheet Title:
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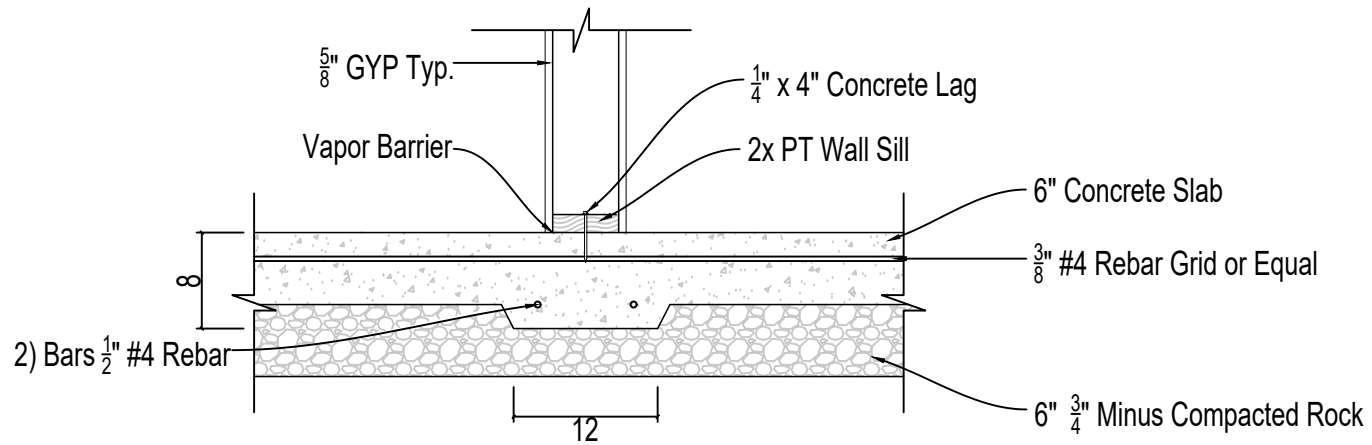
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THICKENED FOOTING DETAIL 1/S1.9



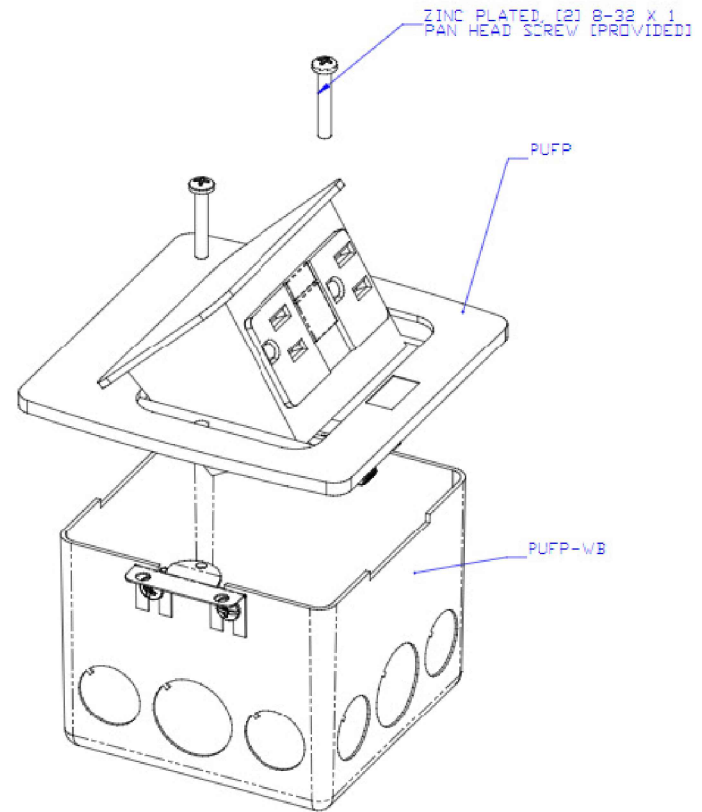
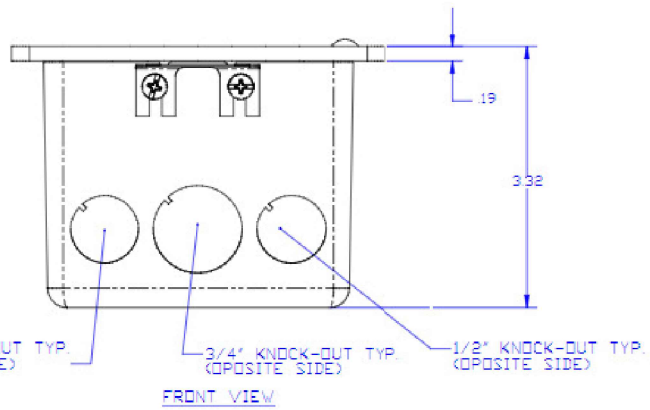
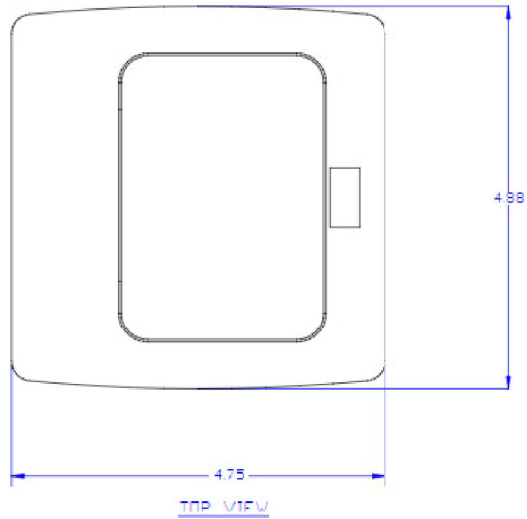
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S1.9 Thicken Footing Detail
Scale: As Shown

THICKENED FOOTING DETAIL 2/S1.9



2
S1.9 Thicken Footing Detail
Scale: As Shown

FLOOR OUTLET DETAIL 4/S1.9

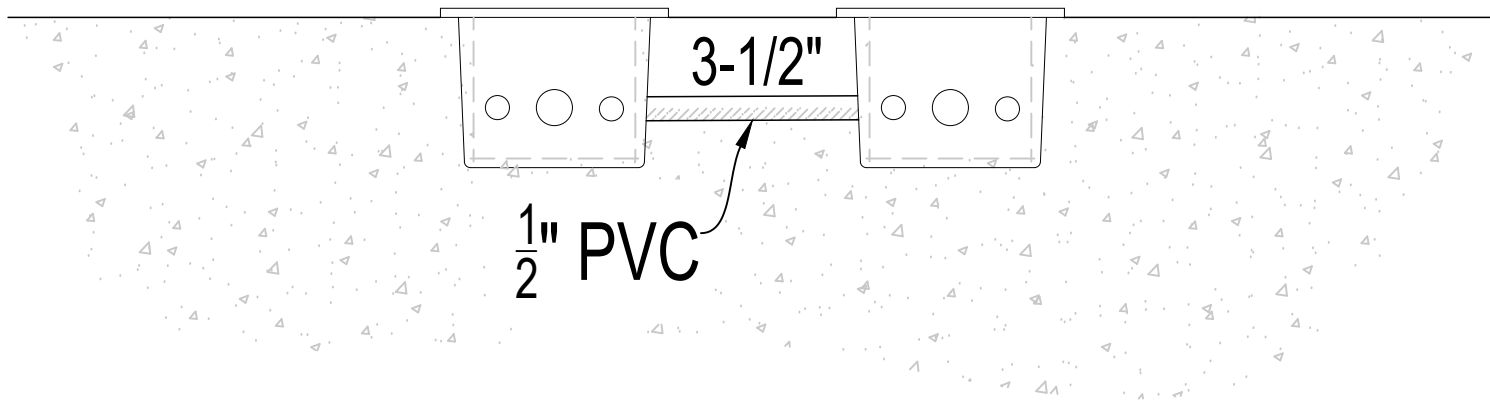
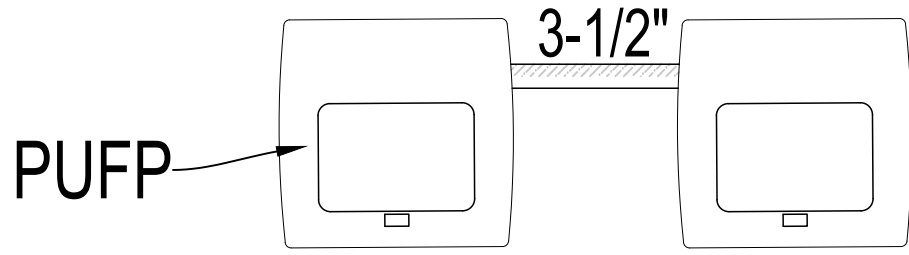


LEW ELECTRIC FITTINGS COMPANY
SERVING THE ELECTRICAL INDUSTRY SINCE 1901

1801 W. St. Charles Rd. Maywood, IL 60153
PHONE: 708-348-2078

UNLESS OTHERWISE SPECIFIED:	REV	DATE
DESIGNED AND DRAWN BY:	SKM	11/10/2018
CHECKED BY:		
DATE PLOTTED:		
SCALE:		
TITLE:	PUFP	

GANGED FLOOR OUTLET 5/S1.9



FOUNDATION NOTES

1. Design Information and Loads

- A. Foundation design in accordance with 2022 Oregon Structural Specialty Code using the reactions provided by the metal building manufacturer for the following design criteria.
- B. Ground Snow Load 16 psf
- Roof Snow Load 12.32 psf
- Minimum Uniform Roof Snow Load 25 psf
- C. Roof Live Load 20 psf
- Roof Collateral Load 10 psf
- C. Wind Speed 108 mph
- Exposure C
- D. S_{ps} 0.343
- E. SDC C
- F. Frost Depth 2'-0"

2. Earthwork

- A. Foundation Design Values (assumed)
 - i. Allowable Soil Bearing Pressure - 1500 psf
 - ii. Coefficient of Friction - 0.25
 - iii. Passive Earth Pressure - 200 psf/ft of depth
- B. The building pad area shall be stripped of all frozen soil, debris, vegetation, and topsoil. All fill soils and any remaining loose natural soils shall be excavated to expose suitable natural soils.
- C. Proof roll the entire building pad area to locate and remove all soft spots. Replace with compacted structural fill.
- D. Place all footings and slabs on undisturbed natural soil or on properly compacted structural fill. Contractor shall verify that soil under footings is suitable to support footings.
- E. Structural Fill: Structural fill should consist of well-graded sandy gravels with a maximum particle size of 3 inches and 5 to 15 percent fines (materials passing the No. 200 sieve). The liquid limit of fines should not exceed 35 and the plasticity index should be below 15. All fill soils should be free from topsoils, highly organic material, frozen soil, and other deleterious materials. Structural fill should be placed in maximum 8-inch thick loose lifts at a moisture content within 2 percent of optimum and compacted to at least 95 percent of modified proctor density (ASTM D1557) under the building and 90 percent under concrete flatwork.

F. It is the responsibility of the contractor to ensure that the depth of the bottom of the foundation is for enough below the adjacent grade to ensure adequate frost protection.

3. Concrete and Reinforcement

- A. Material Standards
 - i. Concrete
 - a. Footings: Exposure Classes F0, S0, W0, C0
 - $f'_c = 3000$ p.s.i., max. w/cm ratio = 0.55
 - b. Exterior Walls: Exposure Classes F1, S0, W0, C1
 - $f'_c = 3500$ p.s.i., max. w/cm ratio = 0.55
 - c. Interior Walls: Exposure Classes F0, S0, W0, C0
 - $f'_c = 3000$ p.s.i., max. w/cm ratio = N.A.
 - d. Interior Slabs: Exposure Classes F0, S0, W0, C0
 - $f'_c = 3500$ p.s.i., max. w/cm ratio = 0.55
 - e. Air content for Exposures F1-F3 must meet the requirements of Table 19.3.3.1 of ACI 318-19. Air-entraining admixtures shall conform to ASTM C260
 - f. Use Type II cement for Exposure Class S0. For Exposure Classes S1, S2 and S3 use Type II or Type V as required in Table 19.3.2.1 of ACI 318-19. Cement shall conform to ASTM C150
 - g. Calcium Chloride admixture shall not be used in Exposures S2 and S3
 - h. Normal weight aggregates - ASTM C33
 - ii. Reinforcing
 - a. Rebar - ASTM A615 Grade 60 ($F_y = 60$ ksi)
 - b. Welded wire - ASTM A1064
 - c. Epoxy/Adhesive - Simpson SET-XP (ICC-ES ESR-2508), Hilti RE-500V3 (ICC-ES ELC-3814), or Dewart Pure110+ (ICC-ES ESR-3298) unless noted otherwise in the drawings.
 - iii. Anchor Rods/Bolts
 - a. All anchor rods shall be cast-in-place headed anchor rods.
 - Use of post-installed (epoxy, adhesive, expansion, screw, etc.) anchors is not allowed without written permission from MVE or unless specifically noted in the drawings.
 - b. Steel column anchor rods/bolts - ASTM F1554 Grade 36

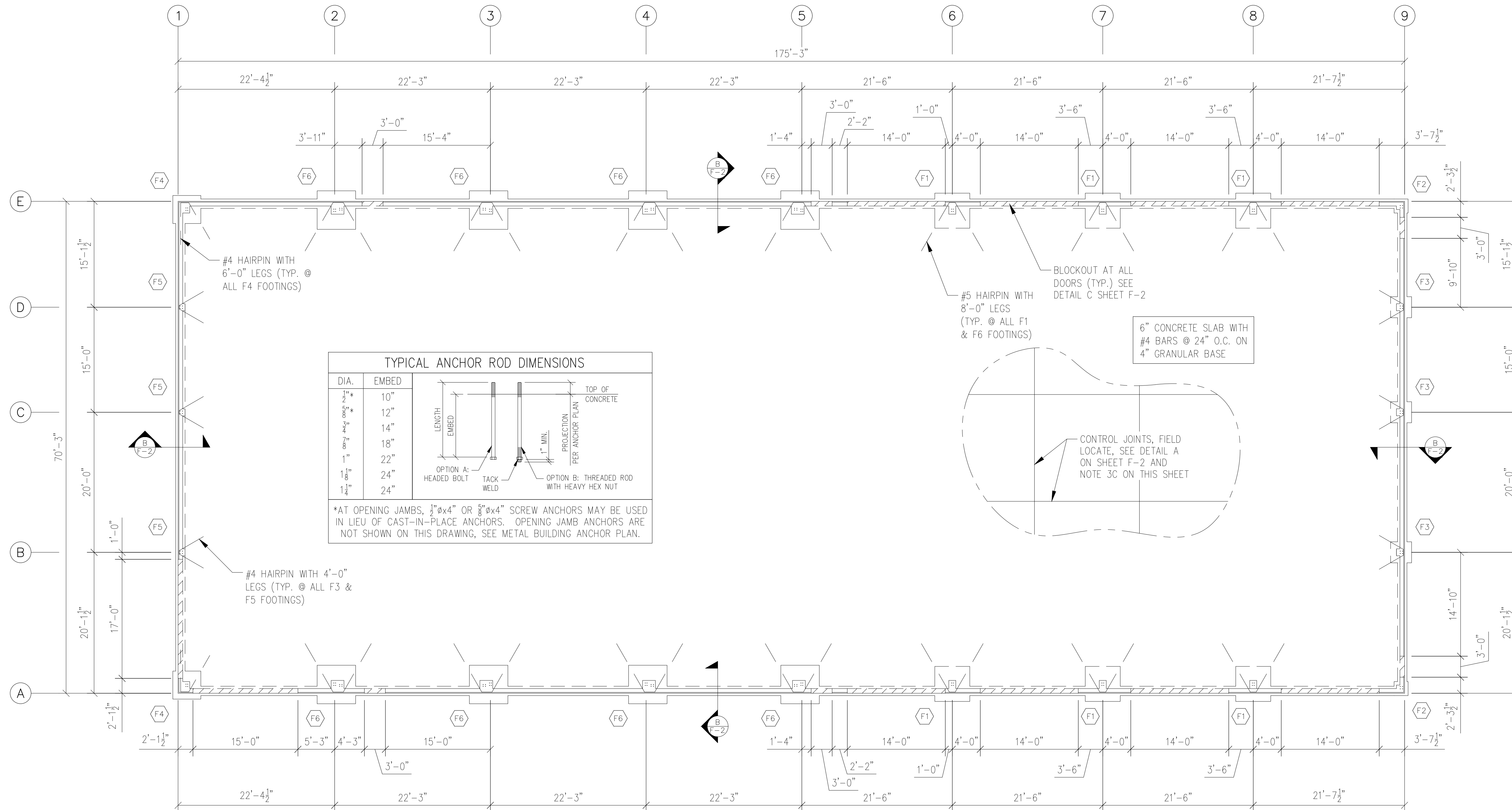
- with ASTM A563 heavy hex nuts and hardened washers (unless noted otherwise)
- c. Wood framing anchors - ASTM A307 with A36 plate washers
- d. Headed stud anchors (HSA) - ASTM A108
- e. Deformed bar anchors (DBA) - ASTM A496
- f. Screw Anchors for jamps as indicated in the typical anchor rod schedule - Simpson Titen HD (ICC-ES ESR-2713), Hilti Kwik HUS-TZ (ICC-ES ESR-3027), or Dewart Screwbolt+ (ICC-ES ESR-2526)
- g. Use of hooked anchor rods/bolts is limited under the ACI and the OSGC. Headed anchor rods/bolts must be used where indicated in the details.
- h. The symbols $\frac{C}{A.R.}$ or $\frac{C}{A.B.}$ as shown in the drawings indicate the center line of the anchor rod/bolt pattern, not the center line of any individual anchor rod/bolt.
- B. Detail reinforcing to comply with ACI 315 "Manual of Standard Practice for Detailing Reinforcing Concrete Structures" and the Concrete Reinforcing Steel Institute (CRSI) recommendations.
 - i. Minimum clear concrete cover for reinforcement shall be as follows unless noted otherwise:
 - a. Concrete cast directly against and permanently exposed to earth - 3"
 - b. Concrete exposed to weather or earth:
 - 1. #5 bars or smaller - 1 1/2"
 - 2. #6 bars or larger - 2"
 - c. Concrete not exposed to weather or in contact with the ground - 3/4"
 - d. Slabs on grade - as shown in details, 3/4" min. from top of slabs not exposed to weather
 - ii. Lap Splice Lengths with 1 1/2" minimum clear cover
 - a. $f'_c = 2500-3500$ p.s.i.
 - 1. #6 and smaller - 49 bar diameters
 - 2. #7 and larger - 76 bar diameters
 - b. $f'_c = 4000$ p.s.i. or greater
 - 1. #6 and smaller - 38 bar diameters
 - 2. #7 and larger - 60 bar diameters
 - c. Increase lap splice lengths by 50% where epoxy coated bars are used.
 - iii. Stagger splices in walls so that no two adjacent bars are spliced in the same location, unless shown otherwise.
 - iv. Make all bars continuous around corners or provide corner bars of equal size and spacing.
 - v. Where 12 inches or less of fresh concrete is placed below horizontal reinforcing lap splice length may be reduced by 30%.
 - vi. Vertical bars in walls, grade beams, and piers to terminate in footings with ACI standard hooks (12 bar diameters) to within 4" of the bottom of the footing unless noted otherwise.
 - vii. Horizontal wall reinforcing shall terminate at the ends of walls with a 90 degree hook plus a 6 bar diameter extension, unless shown otherwise.
 - viii. Horizontal wall reinforcing shall be continuous through construction and control joints.
 - ix. Splices in horizontal reinforcement shall be staggered. Splices in two curtains (where used) shall not occur in the same location.
 - x. Use chairs or other support devices as required for proper clearance.
 - xi. Rebar hairpins shall be centered in slabs and shall be wire tied to the slab reinforcing (if any). Rebar hairpins shall be continuous through walls and piers; lap splices in hairpins may only occur in the floor slab unless noted otherwise.
- C. Control joints in slabs on grade are recommended to control cracking. See plans for control joint spacing and details.
- D. Slabs and grade beams shall not have joints in a horizontal plane. All reinforcement shall be continuous through all construction joints.
- E. Floor slab thickness and reinforcing shown in these drawings are adequate to support typical uniform loads only. Mountain View Engineering has not designed the slab for any specific concentrated forces such as those from vehicles, storage racks, or heavy equipment (unless noted otherwise).
- F. Welding of rebar is not allowed unless specifically indicated in the drawings. All embedments, reinforcing, and dowels shall be securely tied to framework or to adjacent reinforcing prior to placement of the concrete. Tack welding of rebar joints in grade beams, walls, or cages is not allowed. Where welding of rebar is shown in the drawings, all rebar to be welded shall be ASTM A706 Grade 60.

4. Special Inspections

- A. Concrete
 - i. Spot Footings - Not required (OSGC 1705.3 Exception 1)
 - ii. Continuous Ftgs. - Not required (OSGC 1705.3 Exception 2.3)
 - iii. Slabs - Not required (OSGC 1705.3 Exception 3)
 - iv. Grade Beams - Not required (OSGC 1705.3 Exception 4)
 - v. Walls - Not required (OSGC 1705.3 Exception 4)
 - vi. Anchor rods/bolts - Required (OSGC Table 1705.3) Special inspection may be waived subject to the approval of the building official.
- B. Steel Reinforcement
 - i. Placement - Third party special inspection of reinforcing placement need only be performed where specifically required by the building official.
 - ii. Welding - Special inspection of rebar welding is required (if any is used).

5. Miscellaneous

- A. The contractor shall notify engineer of any variations in dimensions.
- B. The engineer is not responsible for any deviations from these plans unless such changes are authorized in writing by the engineer.



NOTE: COORDINATE THIS DRAWING WITH THE R & M STEEL ANCHOR BOLT PLAN.

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

F1 INDICATES APPLICABLE FOOTING DETAIL.

SHEET TITLE: FOUNDATION PLAN
JOB NAME: APEX ELITE LINE ACADEMY-OTEC
LOCATION: BAKER CITY, OREGON
CONTRACTOR: -

PLAN	ISSUE	DATE	DESCRIPTION
BY:	K.L.	11-27-24	FOR PERMIT



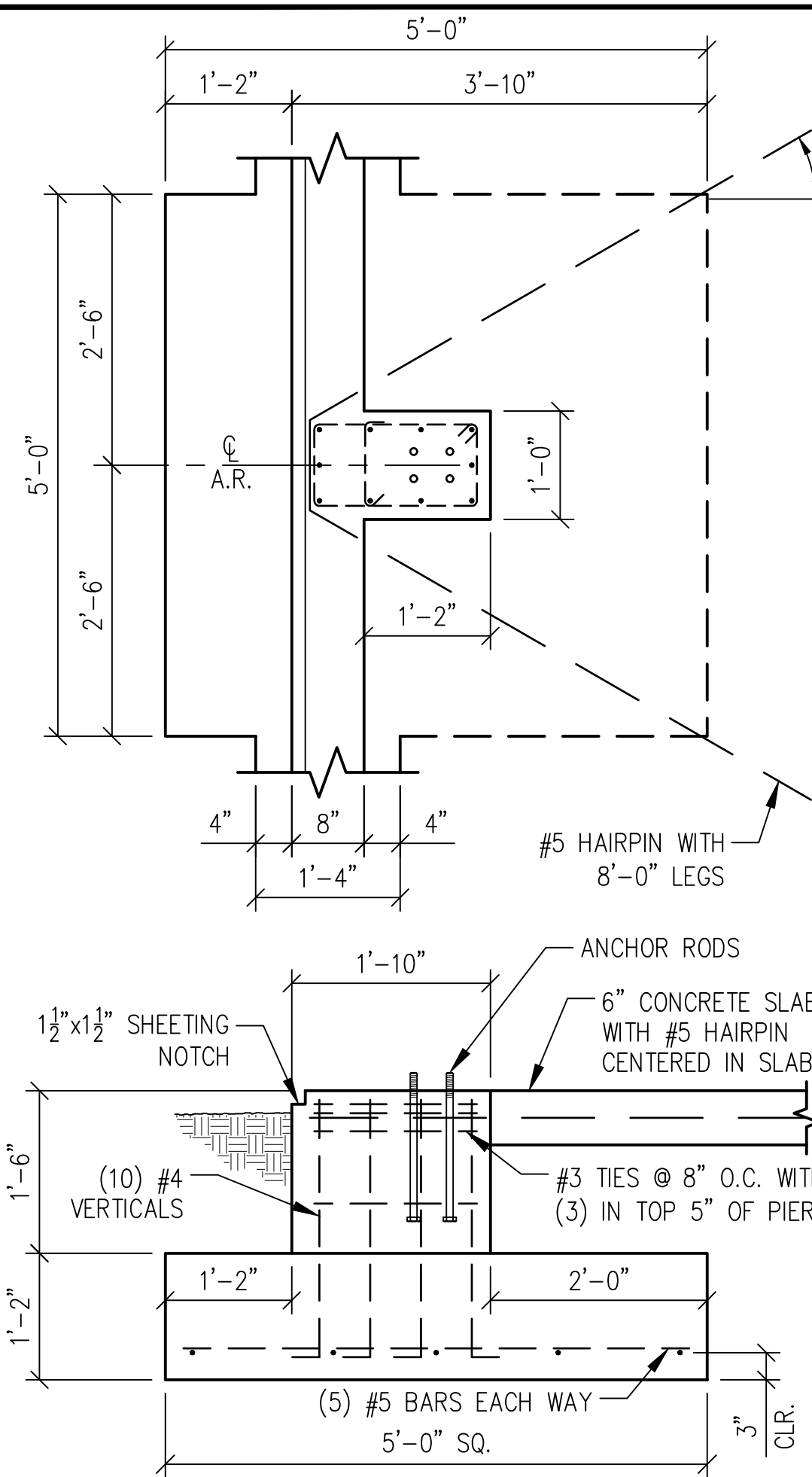
SHEET NUMBER:
F-1

DRAWN BY: K.L.
ENGINEER: J. DUNN
DATE: 11-27-24
JOB NUMBER: 24-1250

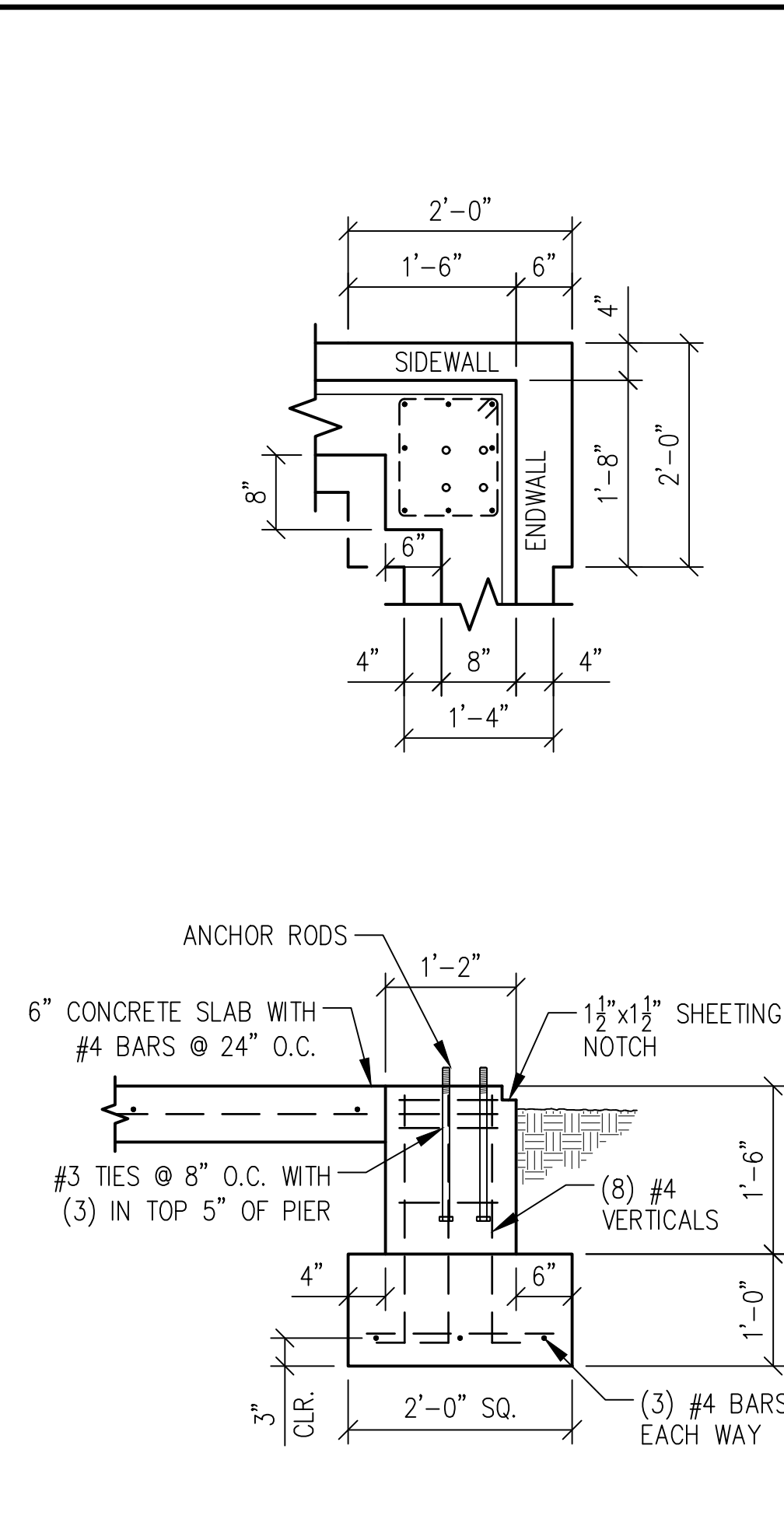
MOUNTAIN VIEW ENGINEERING, INC.

Structural Engineering Consulting

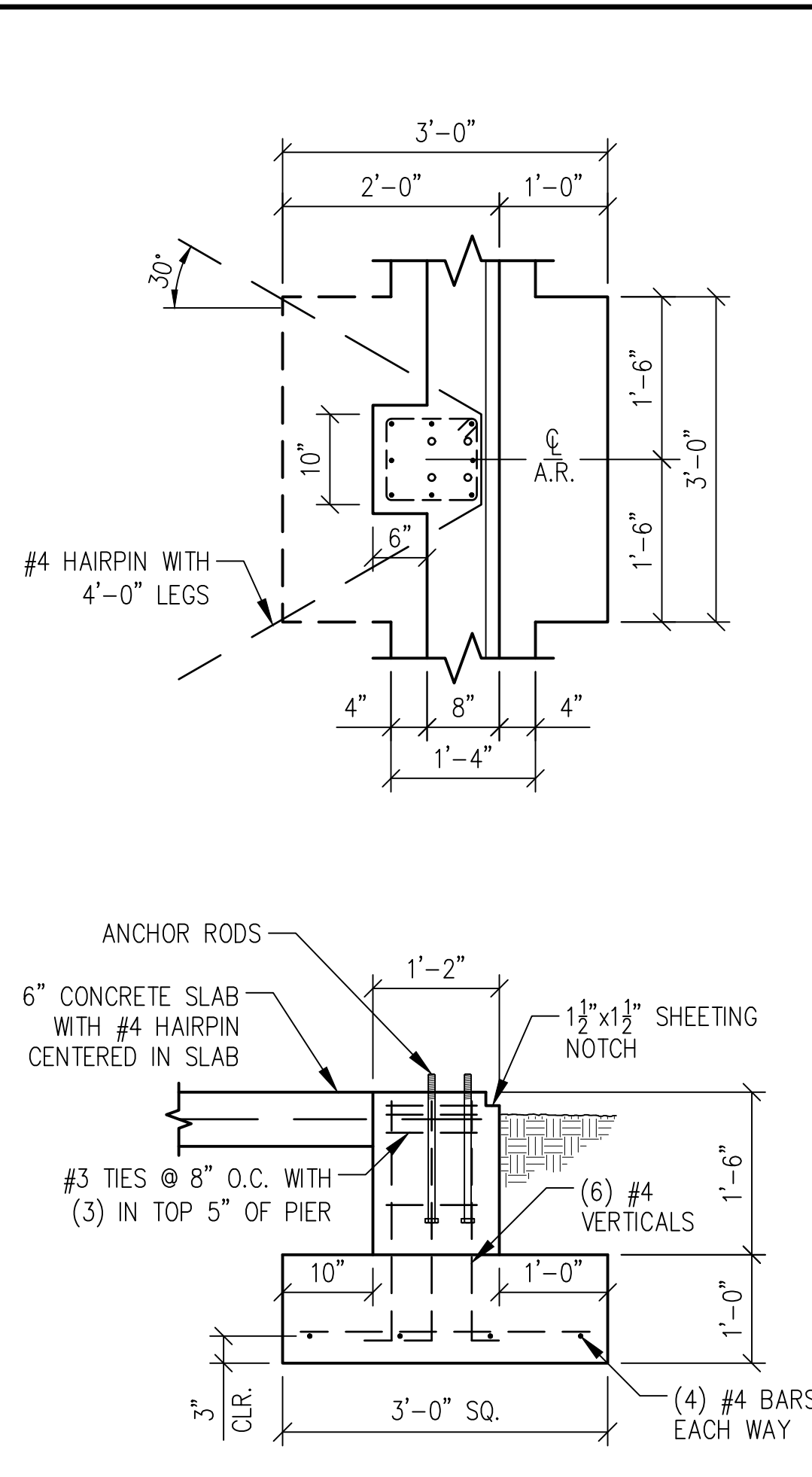
345 North Main Street Ste. A, Brigham City, Utah 84302 (435) 734-9700 Fax: (435) 734-9519



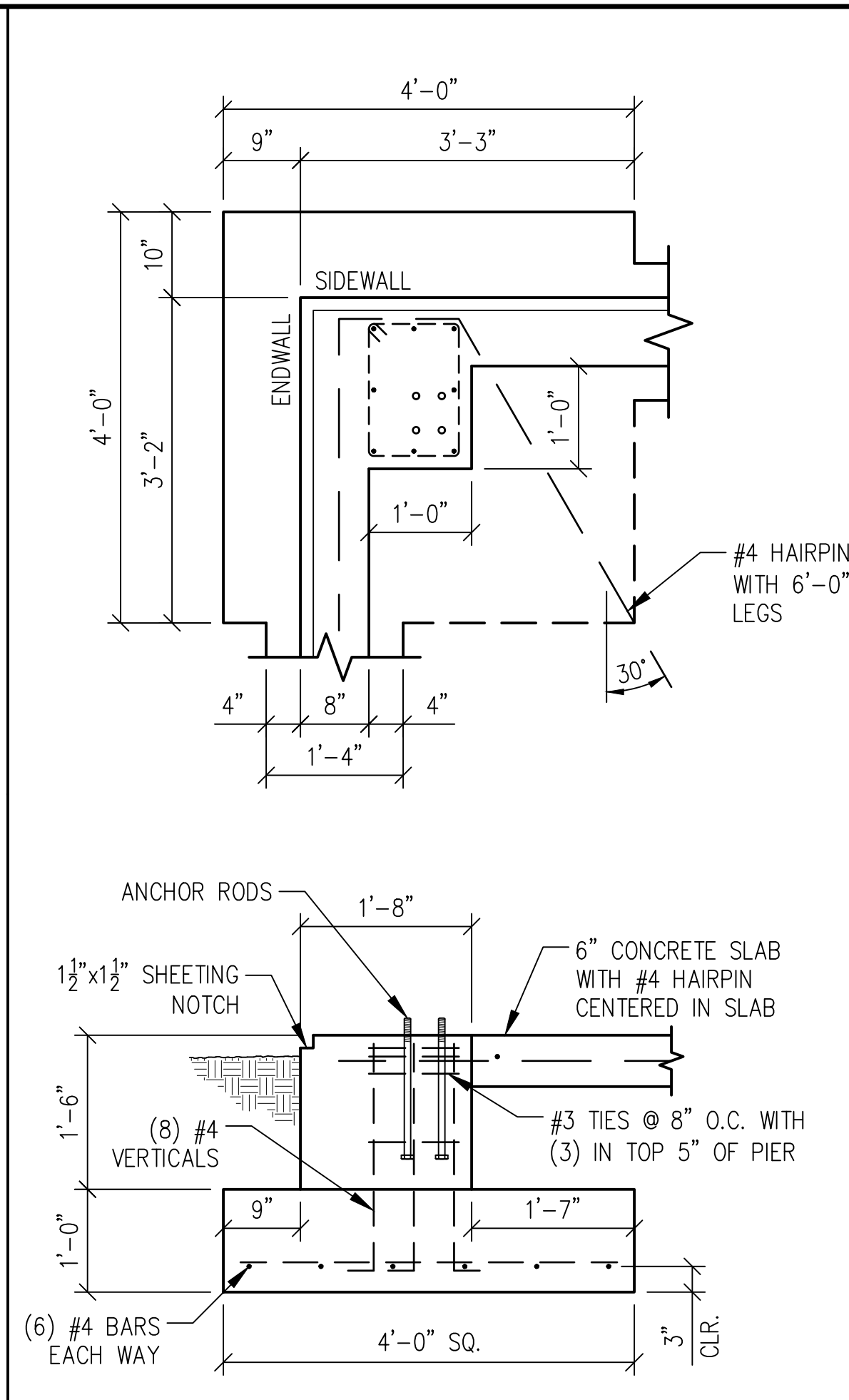
F1 3/4"=1'-0" **SIDEWALL FOOTING DETAIL**



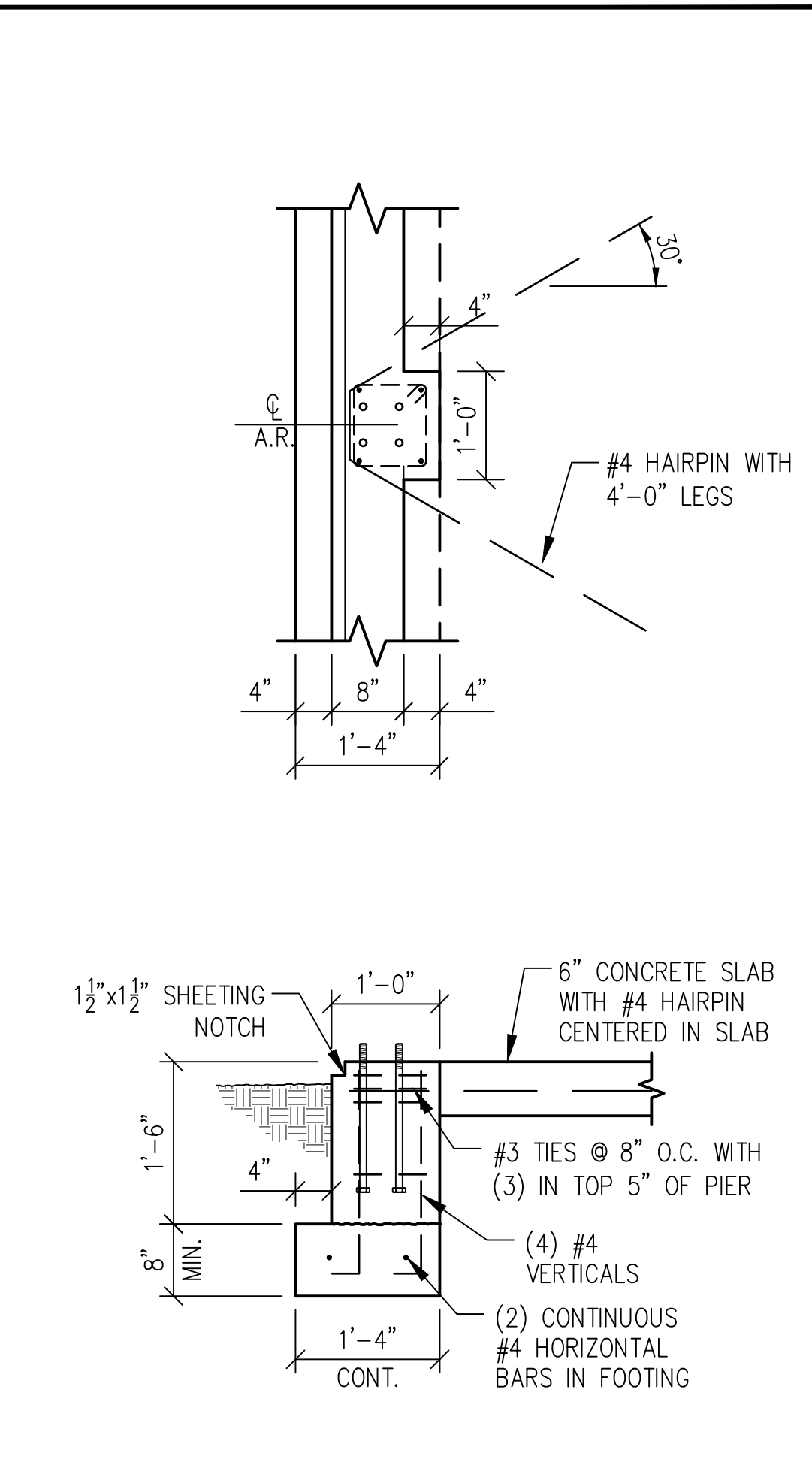
F2 3/4"=1'-0" **CORNER FOOTING DETAIL**



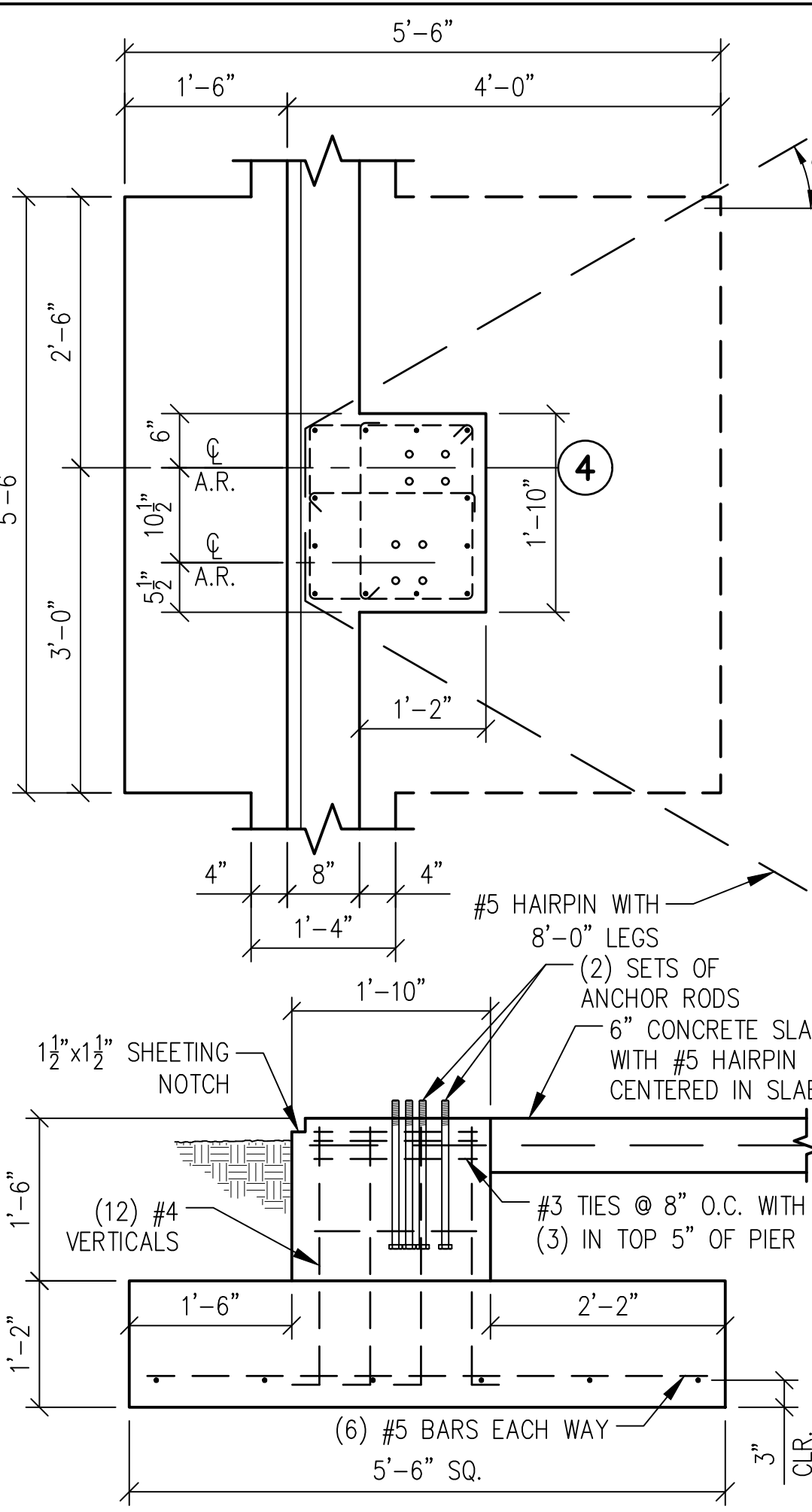
F3 3/4"=1'-0" **ENDWALL FOOTING DETAIL**



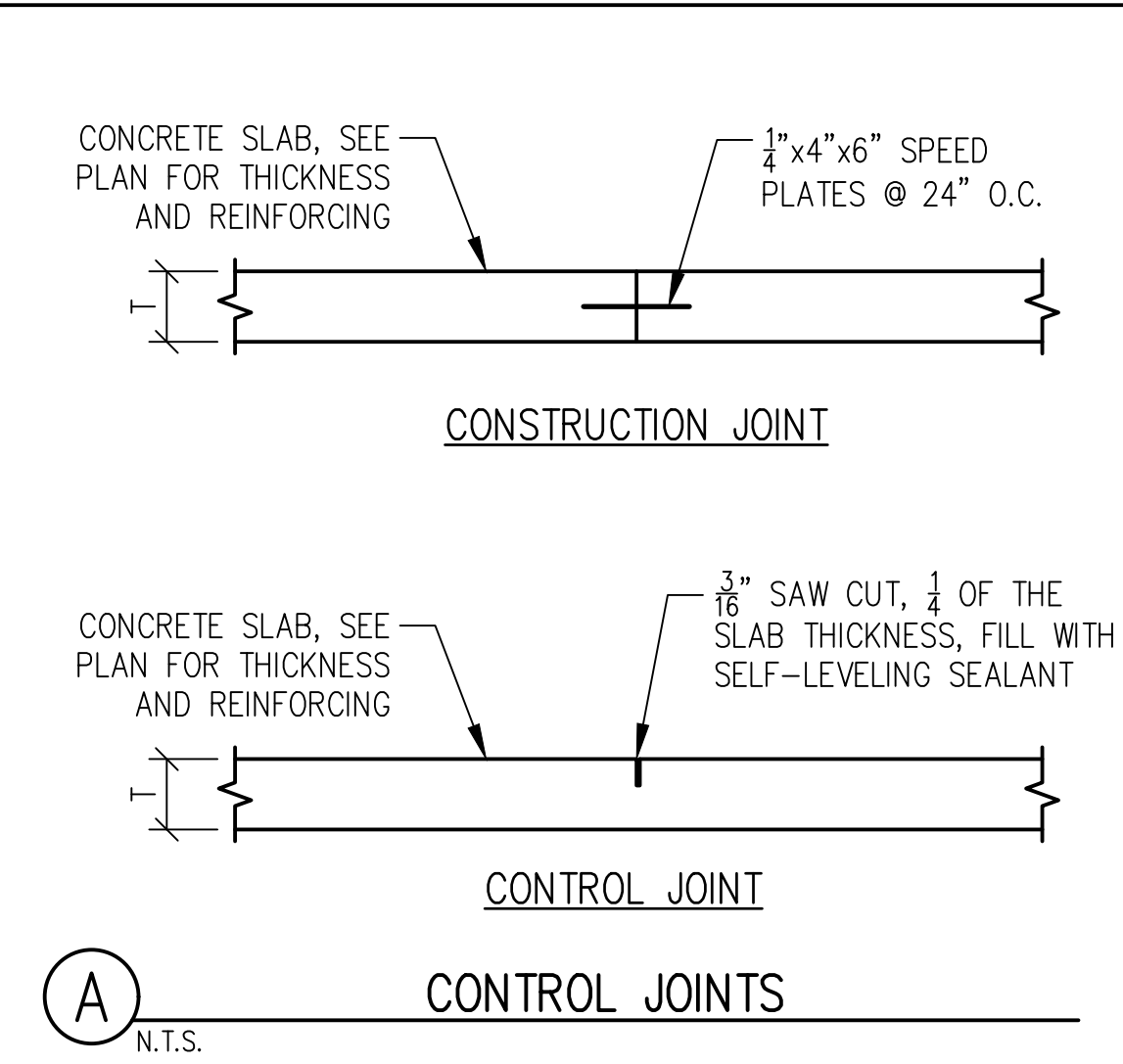
F4 3/4"=1'-0" **CORNER FOOTING DETAIL**



F5 3/4"=1'-0" **ENDWALL FOOTING DETAIL**



F6 3/4"=1'-0" **SIDEWALL FOOTING DETAIL**

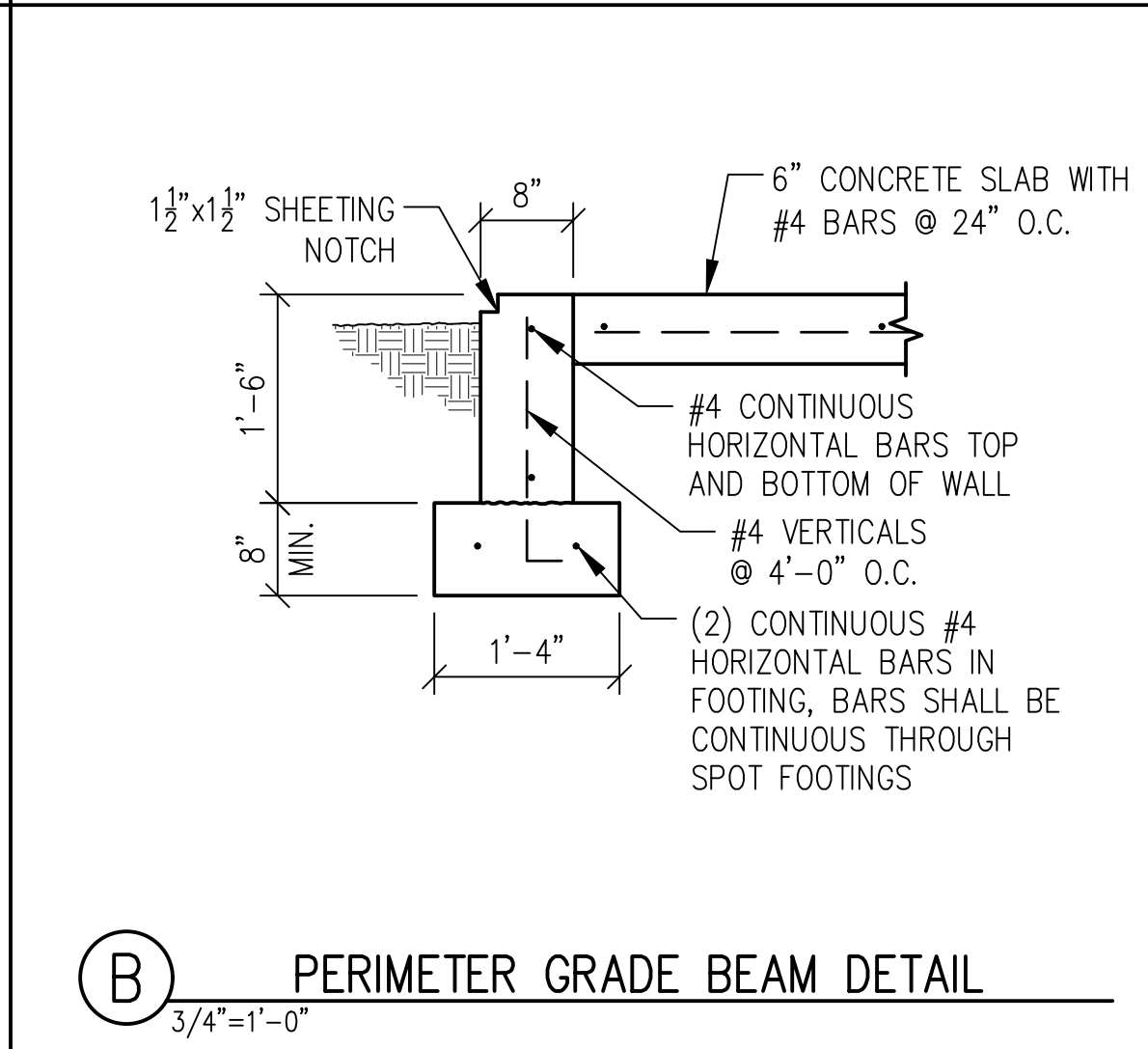


A N.T.S. **CONTROL JOINTS**

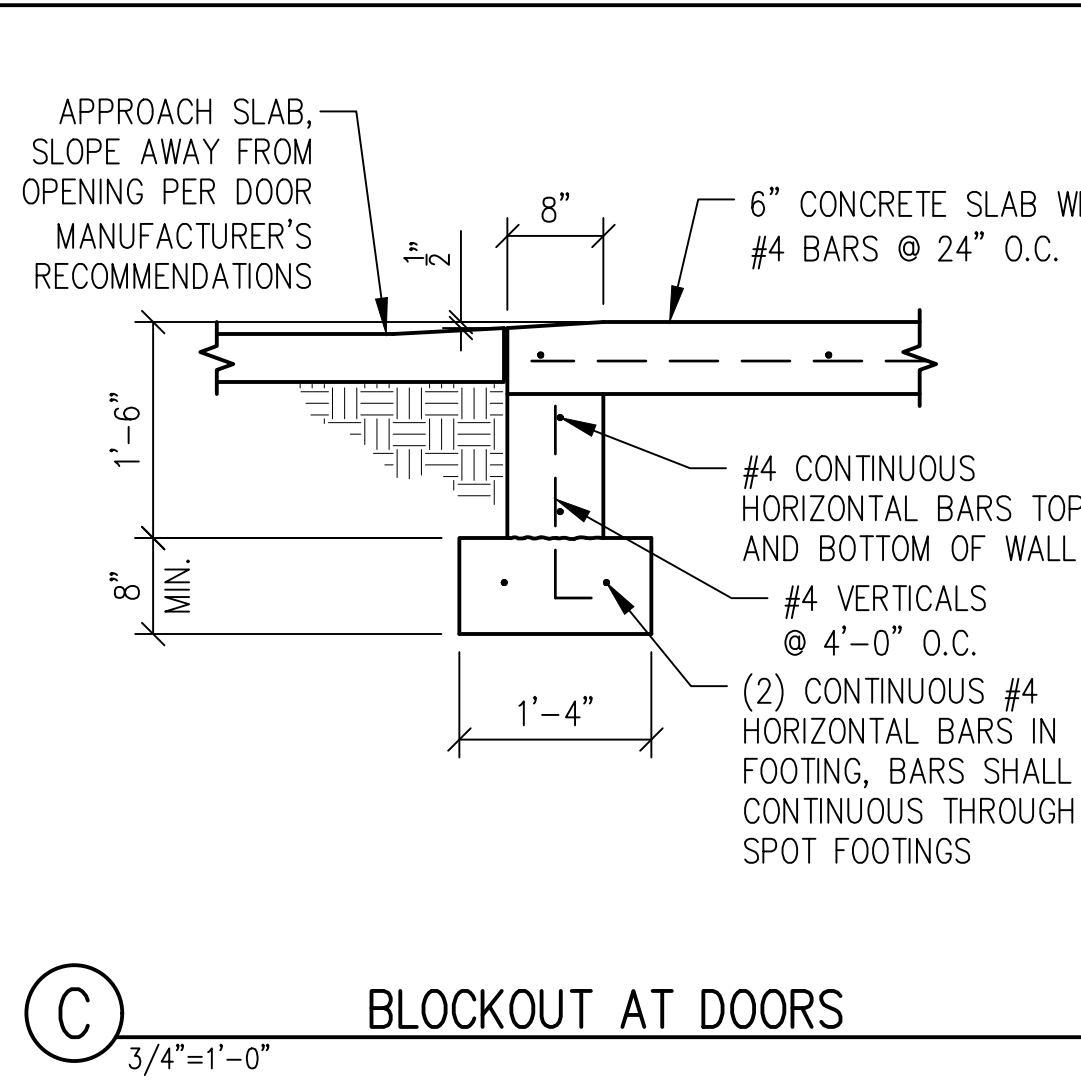
- CONTROL JOINT NOTES:**
- Control joints shall be field located by the contractor.
 - Control joints shall be located to limit the frequency and width of random cracks in the concrete slab.
 - Locate and install control joints in accordance with ACI 360R "Design of Slabs on Ground" and the details shown.
 - Maximum spacing of joints shall be per the table below.
 - Saw cuts should be made as soon as possible.

MAXIMUM SPACING OF CONTROL JOINTS

Slab thickness (T), in.	Slump 4 in. to 6 in.	
	Maximum-size aggregate less than 3/4 in.	Maximum-size aggregate 3/4 in. and larger
4	8 ft.	10 ft.
5	10 ft.	13 ft.
6	12 ft.	15 ft.
7	14 ft.	18 ft.
8	16 ft.	20 ft.



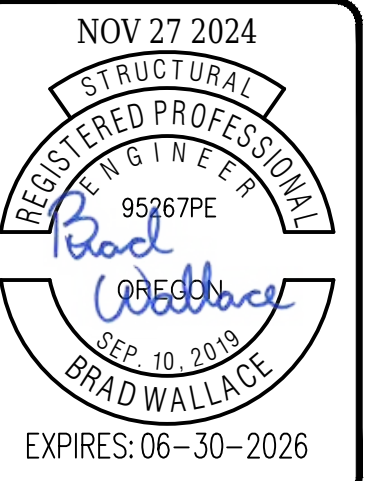
B 3/4"=1'-0" **PERIMETER GRADE BEAM DETAIL**



C 3/4"=1'-0" **BLOCKOUT AT DOORS**

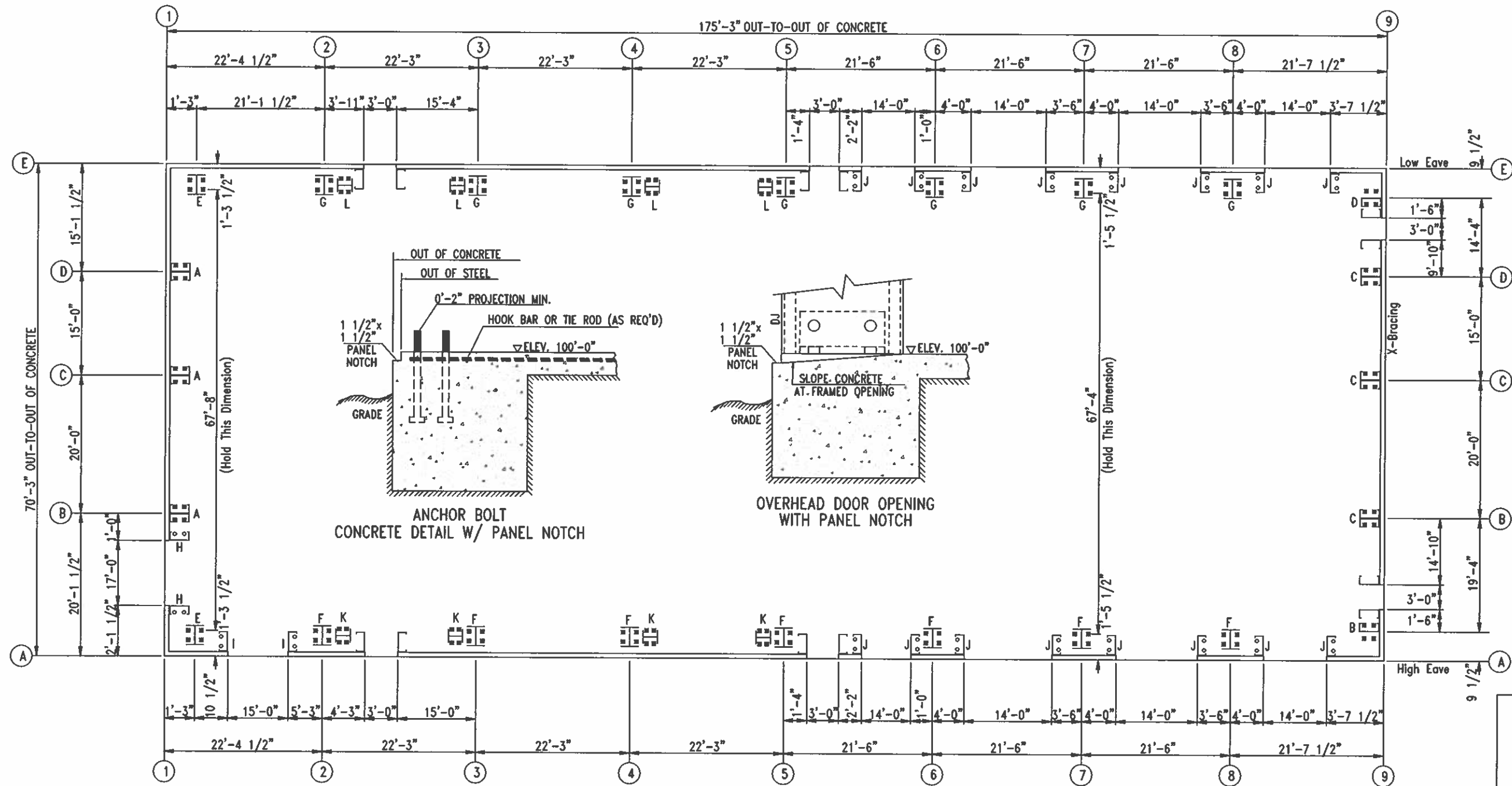
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 JOB NAME: APEX ELITE LINE ACADEMY-OTEC
 LOCATION: BAKER CITY, OREGON
 CONTRACTOR: -

DATE	BY	DESCRIPTION
11-27-24	K.L.	FOR PERMIT



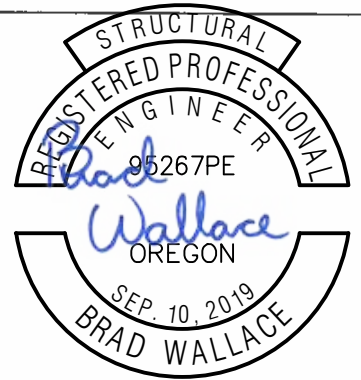
○ Dia= 1/2"

⊗ Dia= 3/4"



ANCHOR BOLT PLAN
 NOTE: All Base Plates @ 100'-0" (U.N.)

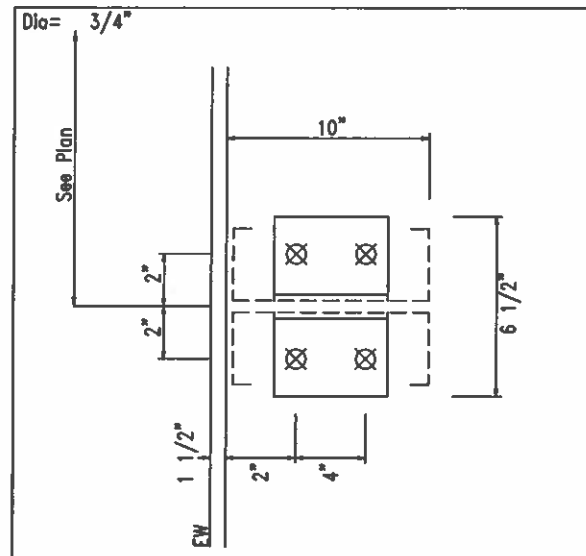
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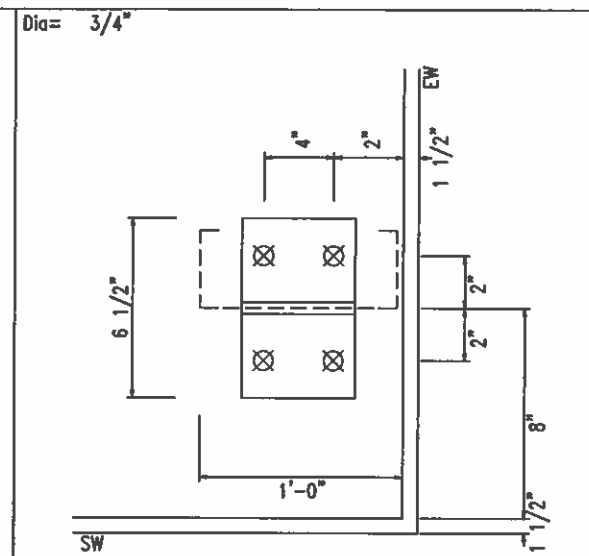
EXPIRES JUN 30 2026

R & M STEEL COMPANY
 P.O. Box 580
 Caldwell, Idaho 83606
 208-454-1800 Fax 208-454-1801

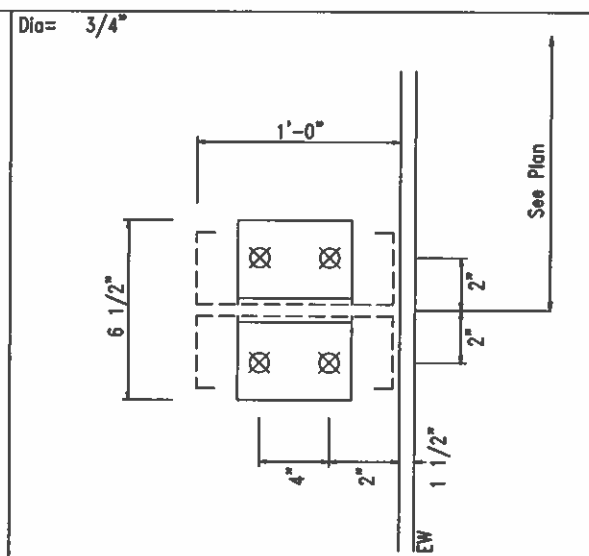
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DATE: 11/ 7/24	BAKER CITY, OR	
OTEC		DRAWN BY
APEX ELITE LINE ACADEMY		RPW
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		4 of 34



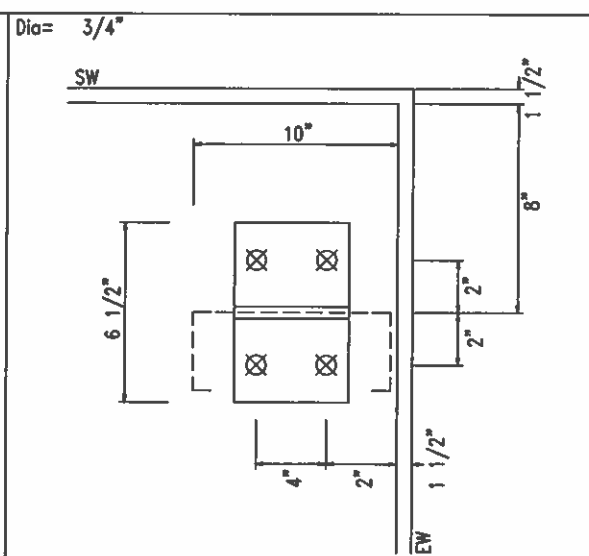
DETAIL A



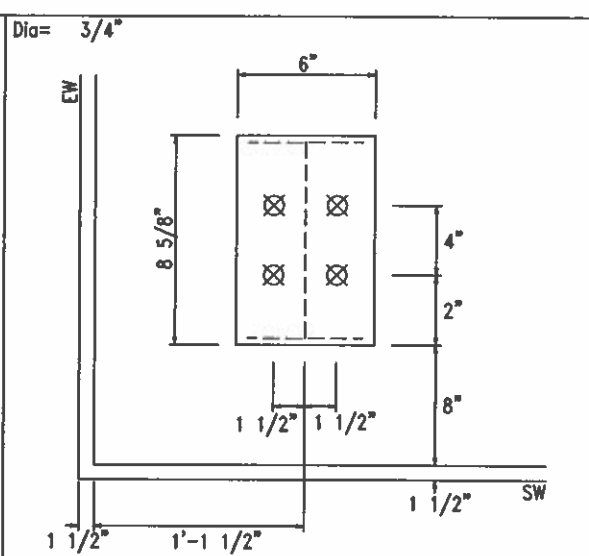
DETAIL B



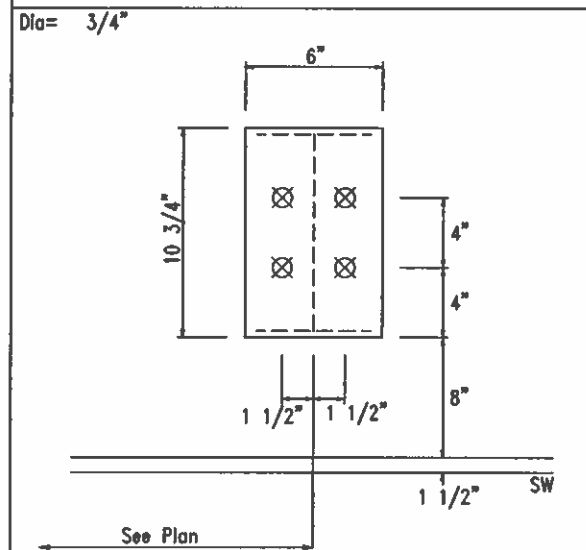
DETAIL C



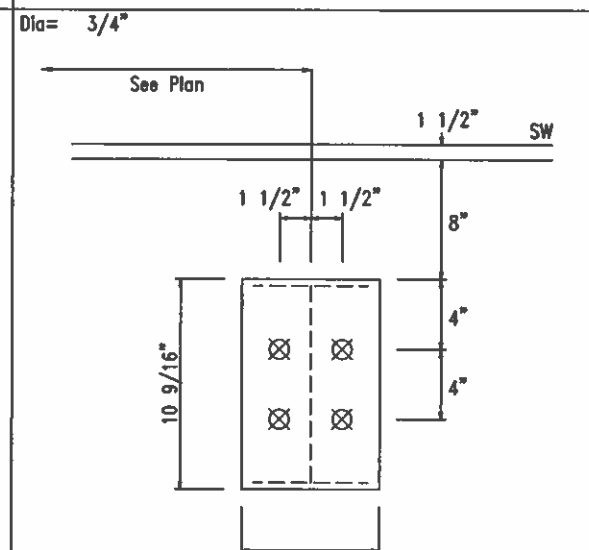
DETAIL D



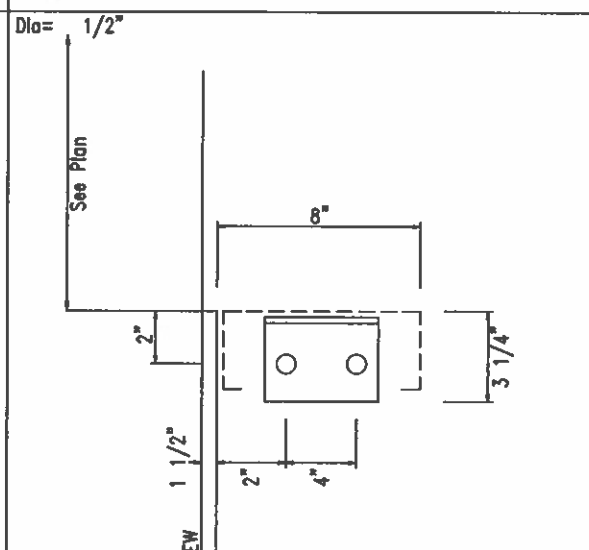
DETAIL E



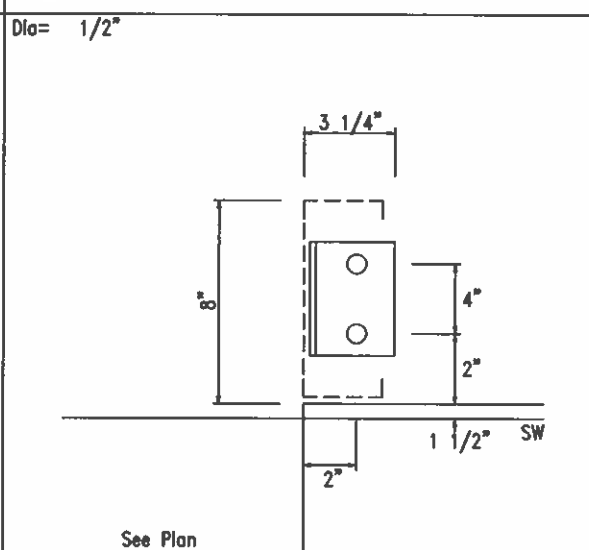
DETAIL F



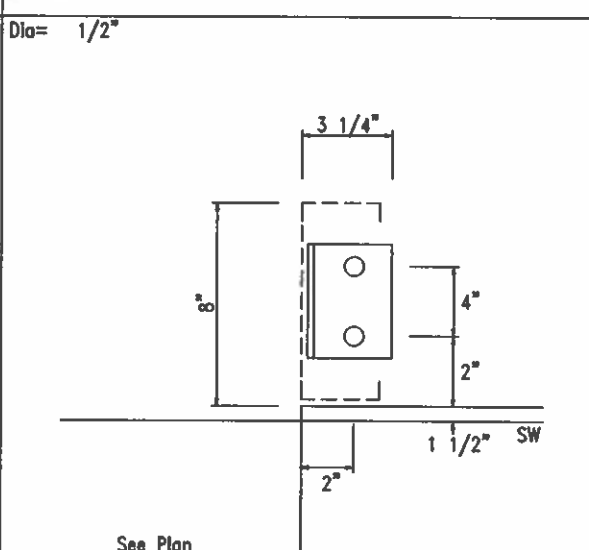
DETAIL G



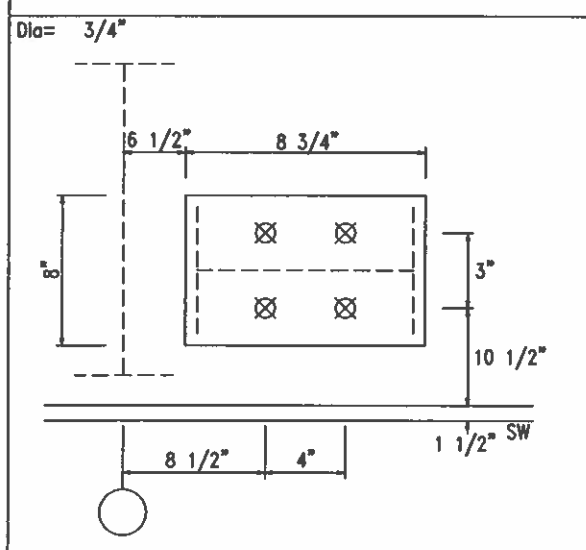
DETAIL H



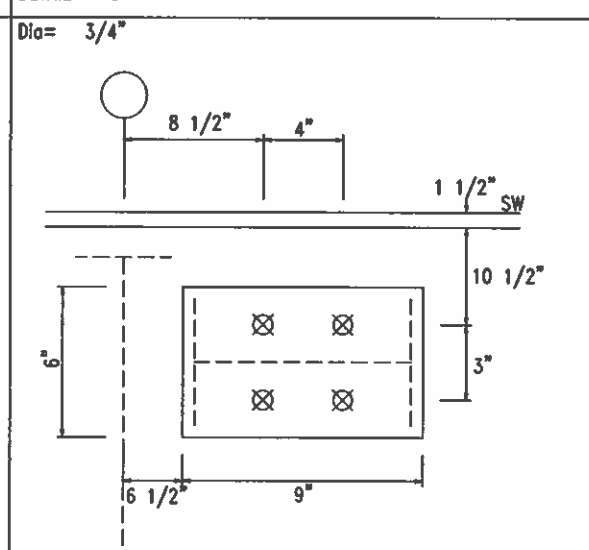
DETAIL I



DETAIL J



DETAIL K



DETAIL L

ANCHOR BOLT DETAIL

NOV 18 2024

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER

95267PE

Brad Wallace

OREGON

SEP. 10, 2019

BRAD WALLACE

EXPIRES JUN 30 2026

R & M STEEL COMPANY		REVISION	
P.O. Box 580 Coldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		JOB LOCATION BAKER CITY, OR	
SCALE:	DATE: 11/ 7/24	DRAWN BY RPW	REVISION
OTEC		DRAWING NUMBER 5 of 34	
APEX ELITE LINE ACADEMY			