

REVISIONS

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ALL REVISIONS, AMENDMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND PROPERTY OF THE ARCHITECT AND SHALL BE KEPT IN THE ARCHITECT'S OFFICE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH REVISIONS, AMENDMENTS AND PLANS SHALL BE USED OR INCORPORATED INTO ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.

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PROJECT # 141067
PLOT DATE 04-20-16
DATE 10-20-14
SHEET #

JUAN C. LINARES

S-6.0

AA26000640

STRUCTURAL GENERAL NOTES

DESIGN LIVE LOAD:

LIVING: 40psf
ROOF: 30psf
STAIRS: 100psf

CONCRETE:

CONCRETE DESIGN PER ACI 318.08

CONCRETE SHALL ATTAIN THE FOLLOWING STRENGTHS IN 28 DAYS.
FOUNDATIONS: 3,000 P.S.I.
SLAB & GRADE BEAMS: 3,000 P.S.I.
COLUMNS: 3,000 P.S.I.
BEAMS: 3,000 P.S.I.
STRUCTURAL SLABS: 3,000 P.S.I.

ALL CONCRETE WORK SHALL CONFORM TO 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' (A.C.I.-301). REINFORCED CONCRETE SHALL BE DESIGNED PER ACI-318-08.

CONCRETE CLEAR COVER:

FOUNDATIONS: 3"
COLUMNS: 1.50" TO STIRRUPS
SLABS NOT EXPOSED TO THE WEATHER: 0.75"
SLABS EXPOSED TO THE WEATHER: 2.50"

REINFORCING STEEL:

ALL REINFORCING STEEL BARS SHALL CONFORM TO A.S.T.M. #615 SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS #1. FOR DEFORMED BILLET STEEL WITH 60,000 P.S.I. MINIMUM YIELD STRENGTH, SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH LATEST A.C.I. STANDARDS PROVIDE DONELS IN FOUNDATIONS TO MATCH REINFORCING ABOVE.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M.-36 AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS. ALL CONNECTIONS OF STEEL TO STEEL BEAMS SHALL BE WELDED UNLESS OTHERWISE SPECIFIED. ERECTION BOLTS, AS REQUIRED, ARE TO BE THE ERECTOR'S RESPONSIBILITY. ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF RUST INHIBITIVE PAINT.

WELDING

ALL WELDING SHALL CONFORM TO SECTION 4 OF THE A.I.S. AND SECTION 1.23 & OF 'SPECIFICATION FOR THE FABRICATION AND ERECTION OF STRUCTURAL STEEL'. WELDS SHALL HAVE ONE COAT OF RUST INHIBITIVE PAINT. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER. ALL WELDS SHALL BE INSPECTED AND CERTIFIED BY THE ERECTOR.

SLAB OPENING

WHERE OPENINGS THROUGH CONCRETE SLABS ARE REQUIRED, OPENING SHALL BE MADE BY BLOCKING OUT PRIOR TO PLACING OF THE CONCRETE. LOCATION OF ALL OPENINGS SHALL BE COORDINATED WITH PLUMBING, ELECTRICAL AND MECHANICAL PLANS. AN AMOUNT OF STEEL EQUIVALENT TO THAT INTERRUPTED BY THE OPENING SHALL BE ADDED ON THE SIDES OF THE OPENING.

CONCRETE WATER PROOFING

CONCRETE SLABS EXPOSED TO THE ELEMENTS AND/OR ADJACENT TO AN A/C AREA SHALL HAVE A WATER TO CEMENT RATIO OF 0.45 TO 0.50 WITH AN F_c OF 4,000 P.S.I. CONCRETE SLABS EXPOSED TO THE ELEMENTS AND/OR ADJACENT TO AN A/C AREA SHALL BE TREATED WITH WATERPROOFING AGENT 'RUBENIX' 239 OR APPROVED EQ. ALL BALCONIES AND CONCRETE SLABS EXPOSED TO THE ELEMENTS SHALL RECEIVE FLEXIBLE CEMENTITIOUS COATING 'MASTER SEAL 500' OR APPROVED EQ. PRIOR TO INSTALLATION OF FINISH SURFACE.

FORMWORK AND SHORING

FORM WORK, SHORING AND BRACING FOR ALL CONCRETE BEAMS, SLABS, COLUMNS WALLS AND FOOTINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ACI-347, 'RECOMMEND PRACTICE FOR CONCRETE FORM WORK'.

GENERAL

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY FIELD CONDITIONS WHICH MAY NOT BE IN ACCORDANCE WITH THE DESIGN CONDITIONS AND CRITERIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONSTRUCTION SAFETY. REFER TO ARCHITECTURAL PLANS FOR FINISHED FLOOR ELEVATIONS, SLOPES, STEPS AND RECESS. REFER TO THE MECHANICAL AND MECHANICAL SLEEVES AND OPENINGS. THE ARCHITECT & ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURE OR THE SAFETY PRECAUTIONS INCIDENT THERETO.

TRUSS INSTALLATION: SHALL CONFORM TO F.B.C. 2014. THE INSTALLATION OF LARGE TRUSSES, INCLUDING TEMPORARY BRACING, SAFETY PRECAUTIONS AND PERMANENT BRACING AS REQUIRED BY THE STRUCTURAL ENGINEER AND THE ARCHITECT OR PROFESSIONAL ENGINEER OF RECORD, SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER A LICENSED GENERAL CONTRACTOR, LICENSED RESIDENTIAL CONTRACTOR, OR LICENSED BUILDING CONTRACTOR, LIMITED WITHIN THE SCOPE OF THE INDIVIDUAL LICENSE, (OR THE EQUIVALENT BROWARD COUNTY LICENSE), ARCHITECT OR PROFESSIONAL ENGINEER. LARGE TRUSSE ARE THOSE MEASURING MORE THAN 35 FEET IN OVERALL LENGTH OR 6 FEET IN OVERALL HEIGHT.

MASONRY

- MASONRY BLOCK STRENGTH F_m=2000 P.S.I., MORTAR TYPE 'M' OR 'S'.
- MASONRY ROUGH OPENINGS FOR WINDOWS AND DOORS WIDTHS HAVE BEEN ROUNDED UP TO THE NEAREST INCH. (SEE FLOOR PLAN)
- HORIZONTAL JOINT REINFORCEMENT SHALL BE PROVIDED AT EVERY SECOND COURSE (16" VERTICALLY AT MASONRY JOINTS) HORIZONTAL JOINT REINFORCEMENT SHALL BE STANDARD #3 LADDER TYPE FOR REINFORCED MASONRY AND SHALL EXTEND 4" INTO THE COLUMN.
- THE OUTER BAR OF FOUNDATION STEEL SHALL BE CONTINUOUS AROUND ALL BUILDING CORNERS USING CORNER BARS. MINIMUM BAR LAP SHALL BE 40 BAR DIAMETER.
- BAR SPLICES SHALL BE A MINIMUM OF 48" TIMES BAR DIAMETER FOR ALL REINFORCED MASONRY WALL CONSTRUCTION.
- BLOCK MASON SHALL CONSULT WINDOW MANUFACTURERS' SPECIFICATIONS
- THE UNIT MASONRY AND REINFORCING IS DESIGNED IN ACCORDANCE WITH ACI 530/530.1-05, TMS 402-05, ACI 530-05, ASCE 6-05 BUILDING CODE REQUIREMENTS. ALL THE MASONRY UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS TMS602-05, ACI 530.1-05, ASCE 6-08.

TIMBER - SOUTHERN PINE

SELECT NO. 2

- BENDING F_b = 1200 PSI SINGLE MEMBER.
1400 PSI REPETITIVE MEMBERS.
- HORIZONTAL SHEAR F_v = 90 PSI
- COMPRESSION PERPENDICULAR TO GRAIN = 405 PSI
- MODULUS OF ELASTICITY E = 1,700,000 PSI
- WET CONDITIONS OF SERVICE (SURFACED DRY, 19% MAX M.C.)

FOUNDATIONS

A. THE OWNER SHALL RETAIN THE SERVICES OF AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY SUCCESSFUL COMPLETION OF SITE PREPARATION EFFORTS. LOCATIONS FAILING TO MEET THE GEOTECHNICAL ENGINEERS REQUIREMENTS SHALL BE RECOMPACTED AND RETESTED AT THE CONTRACTOR'S EXPENSE, AND AS DIRECTED BY THE ENGINEER. WRITTEN CERTIFICATION THAT THE MINIMUM DESIGN BEARING CAPACITY, AND THAT THE COMPACTION REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY THE GEOTECHNICAL ENGINEER.

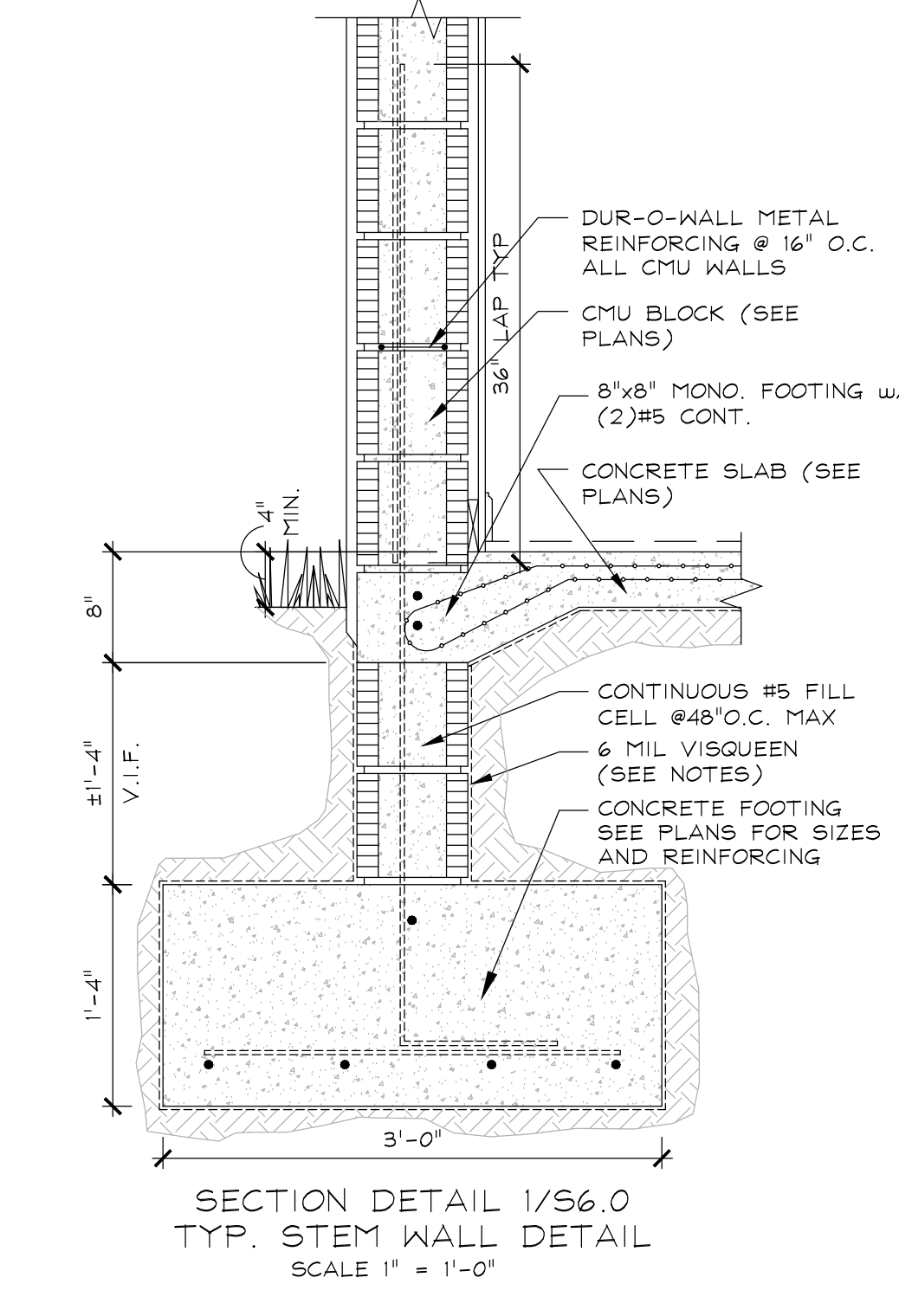
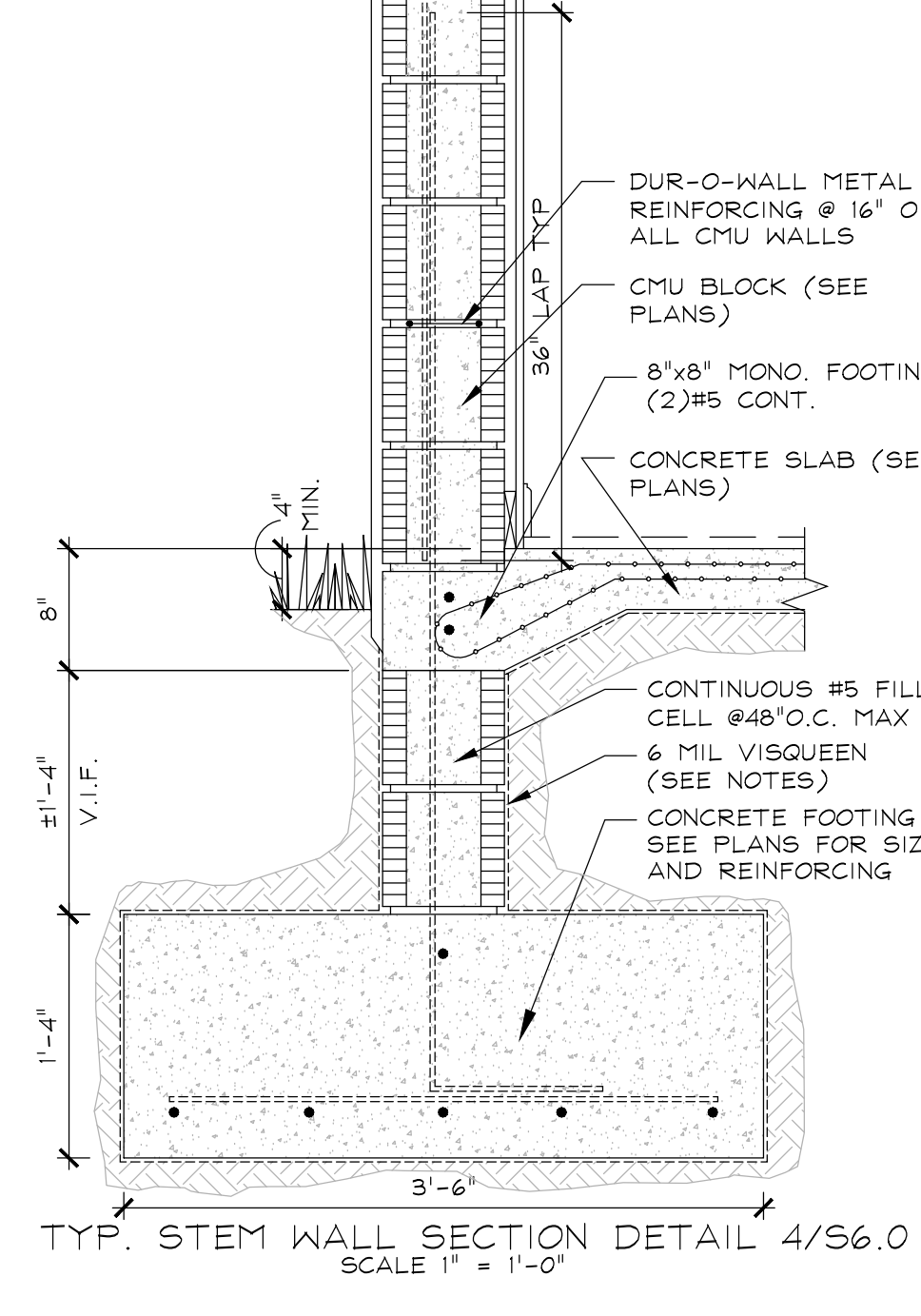
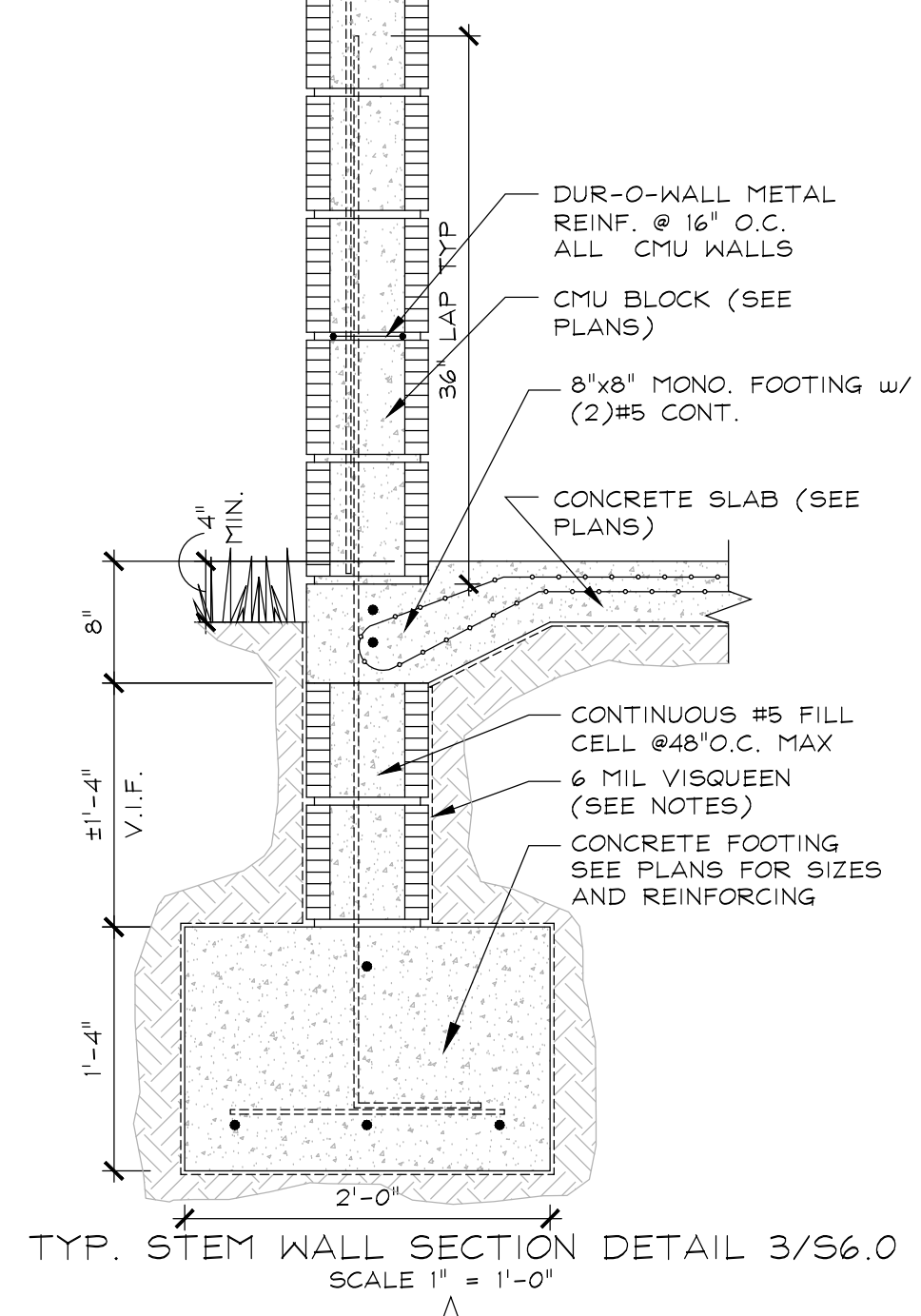
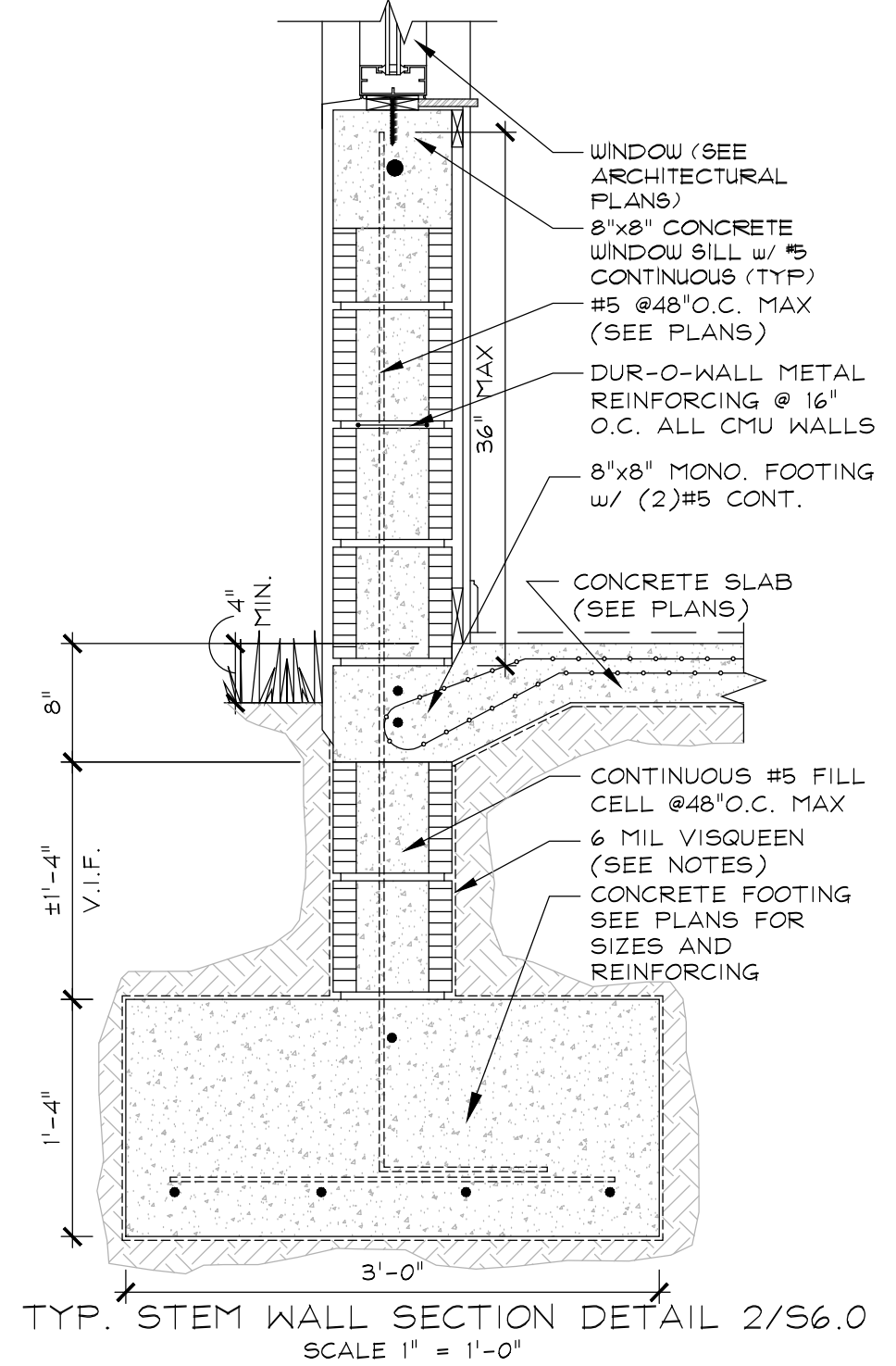
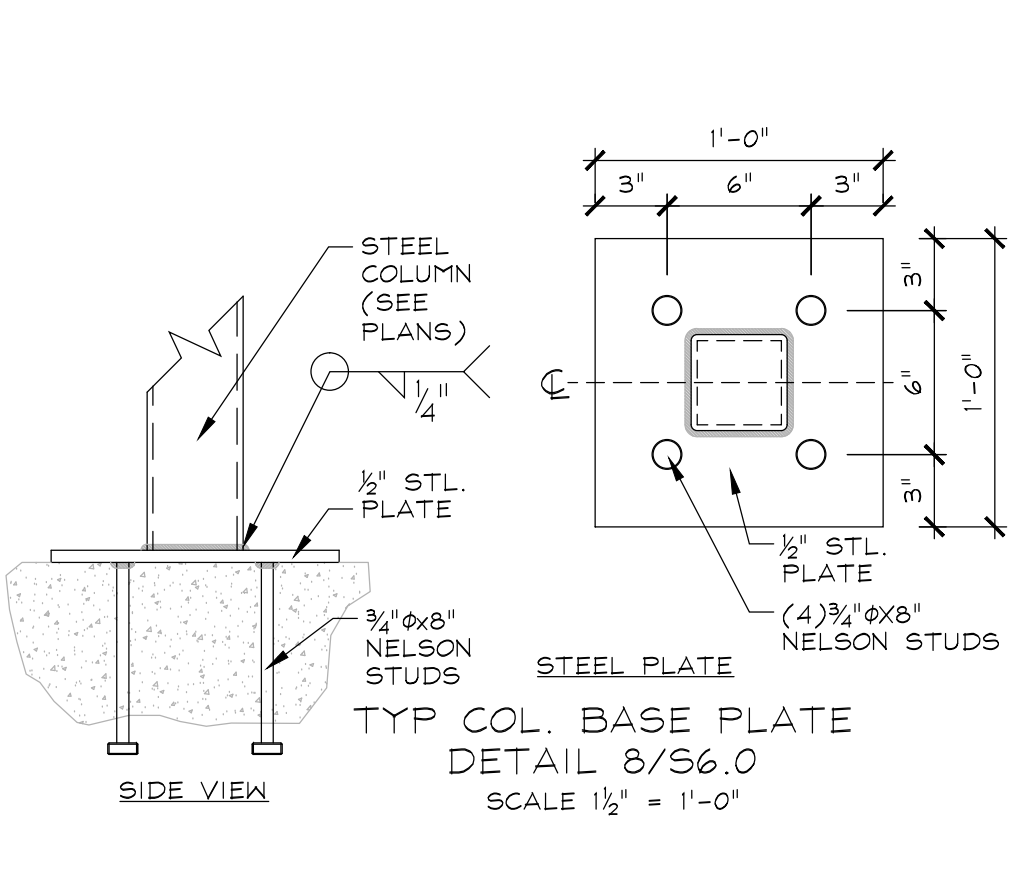
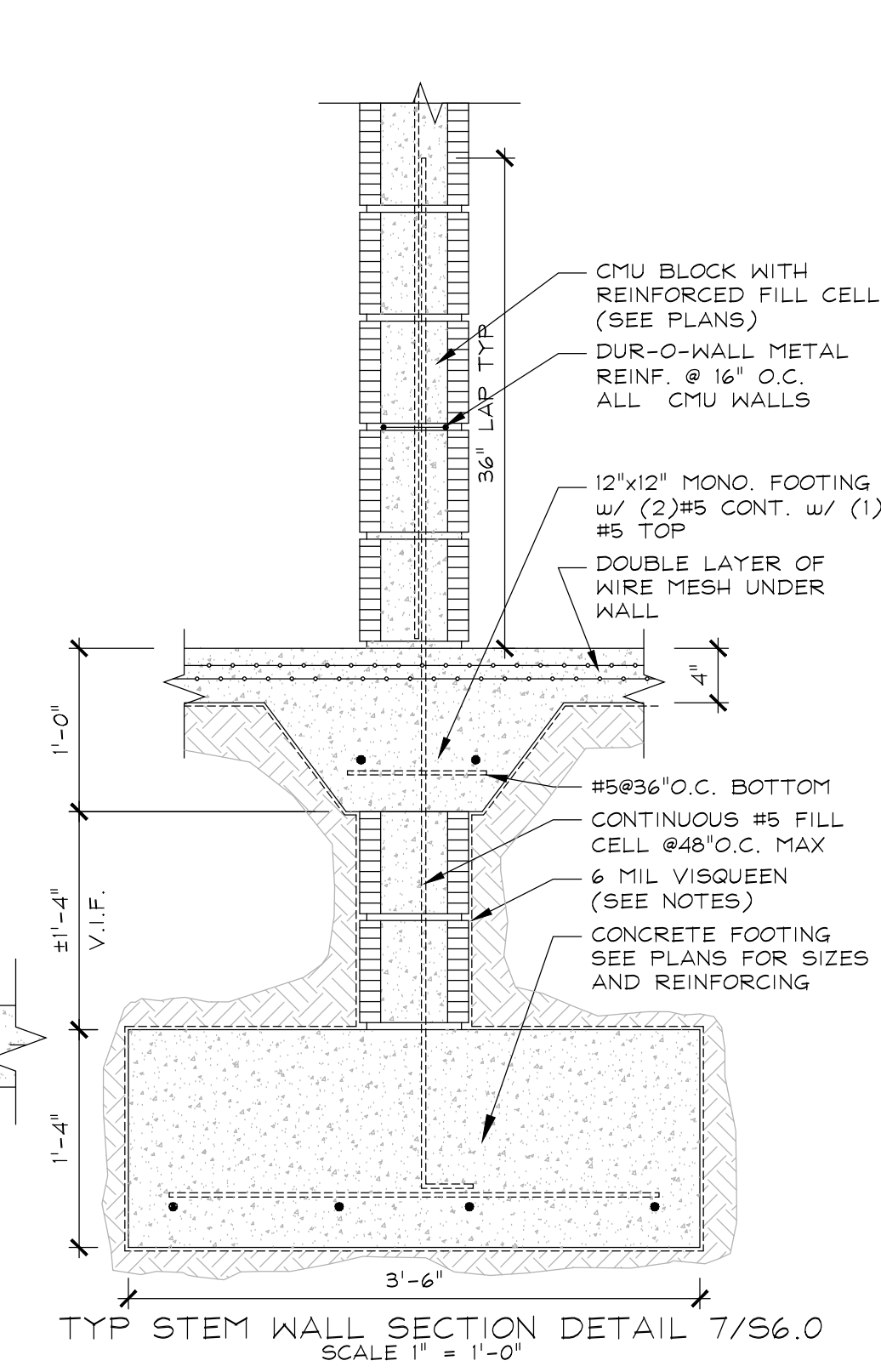
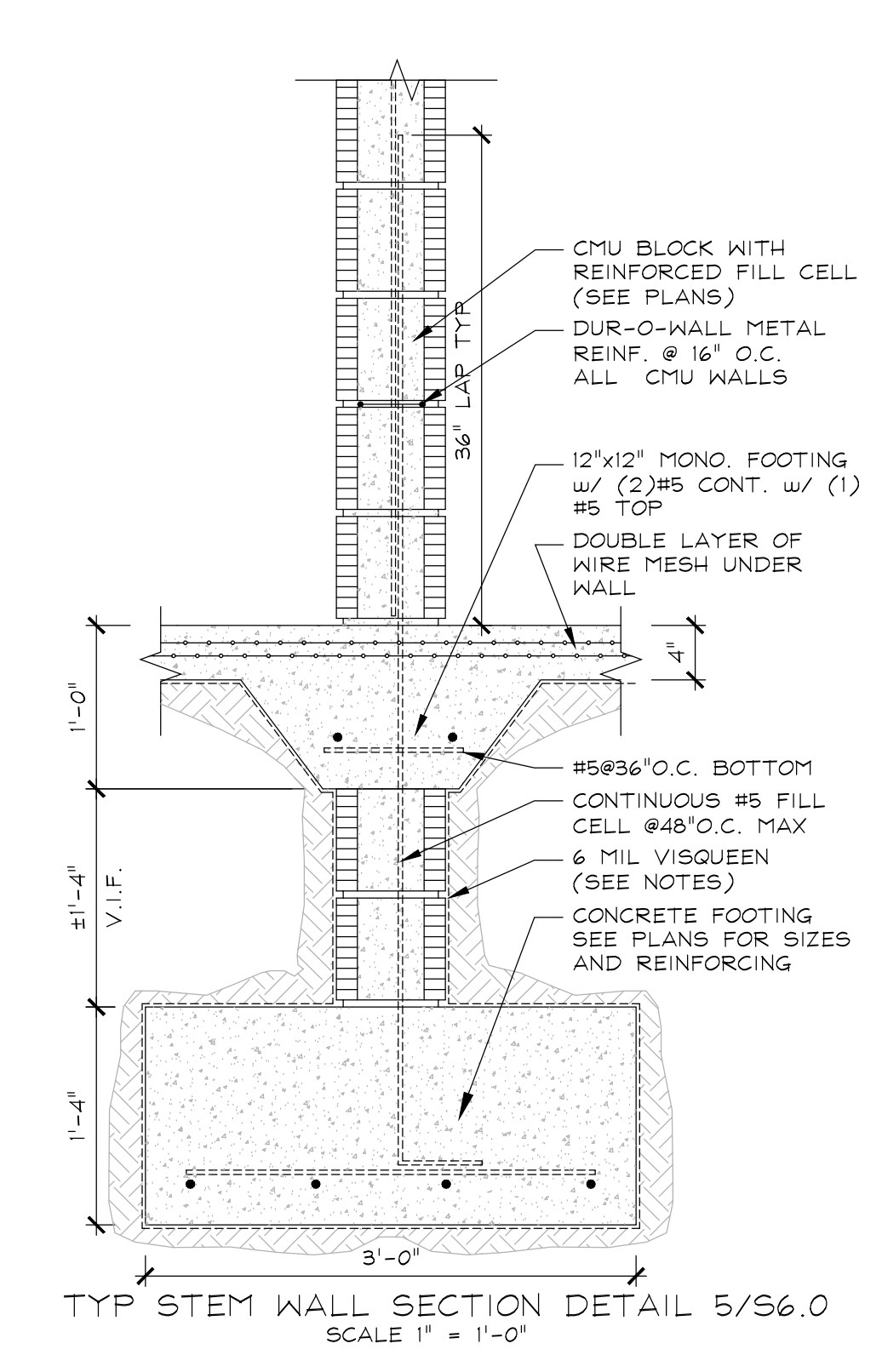
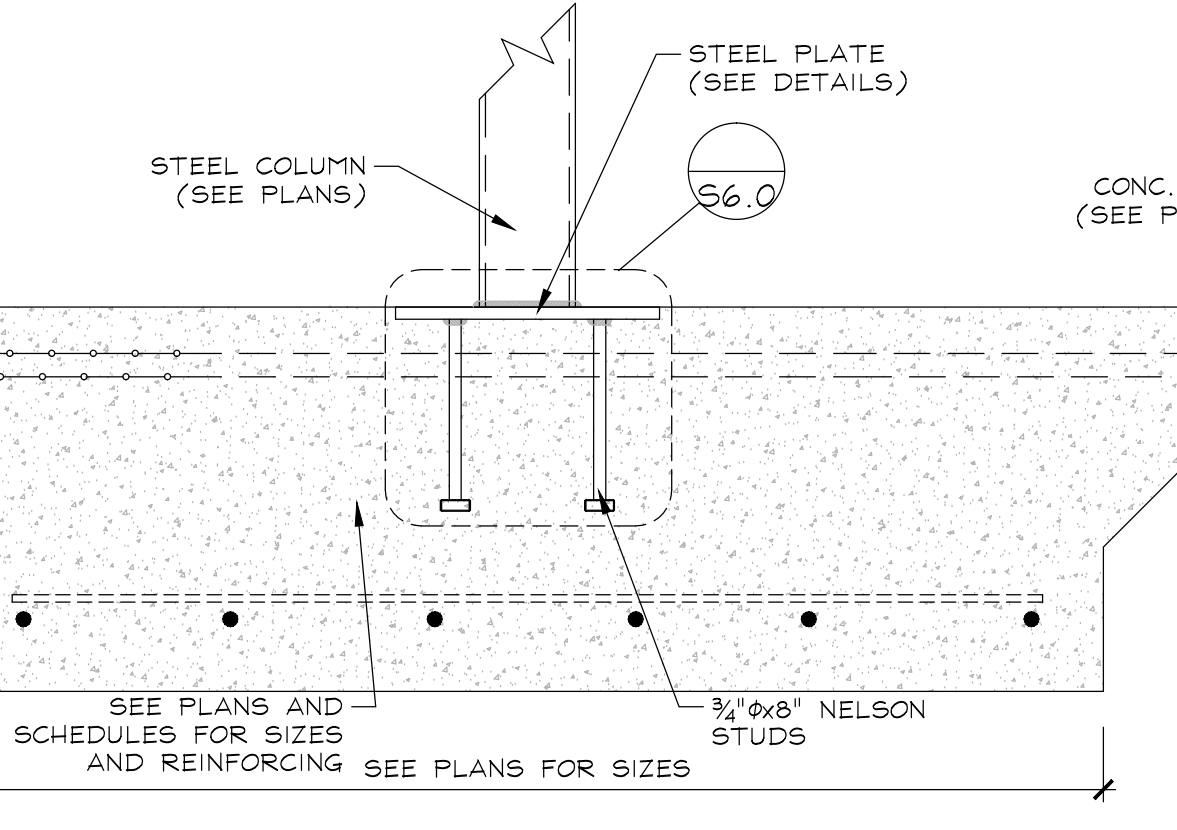
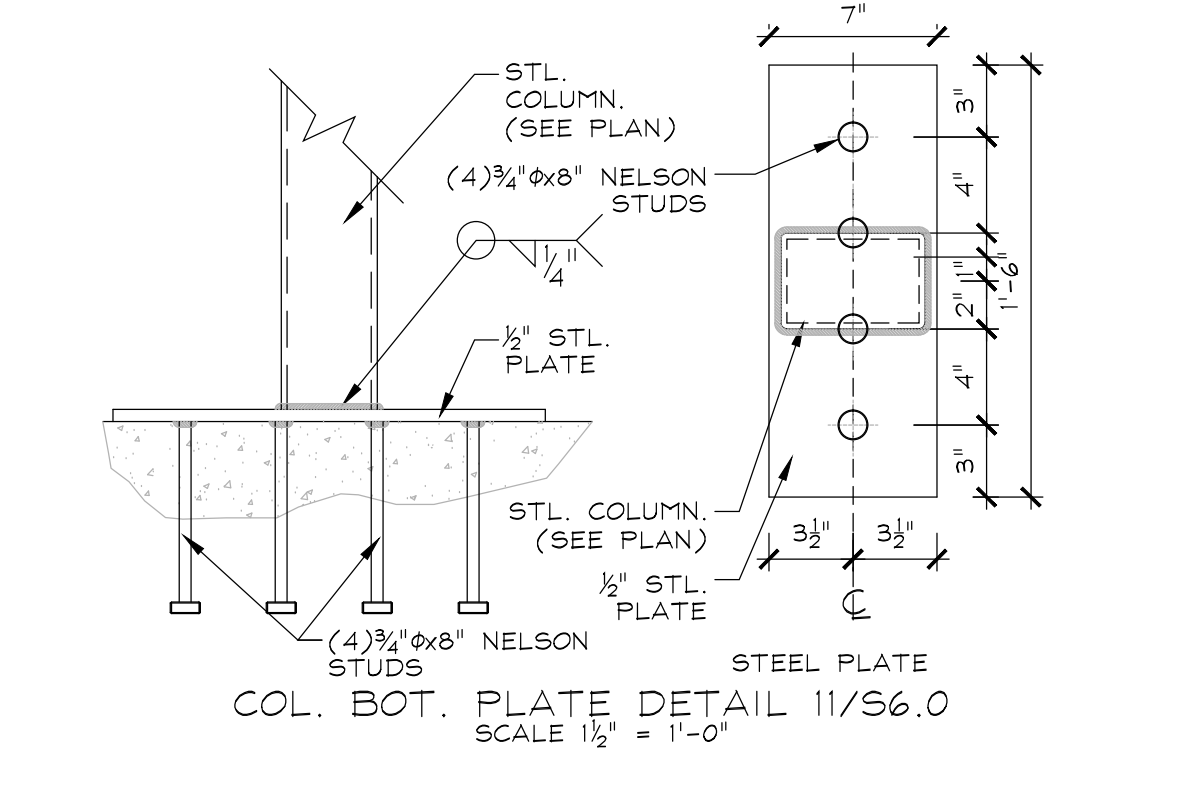
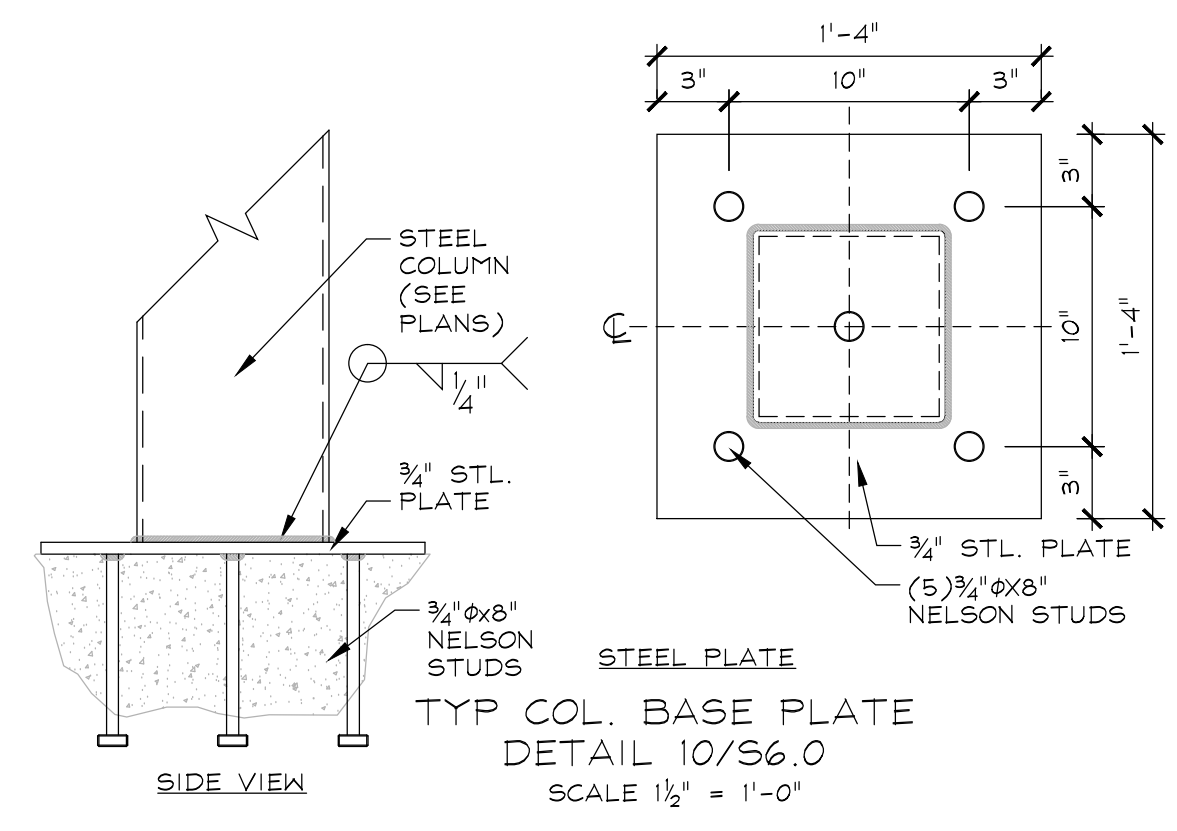
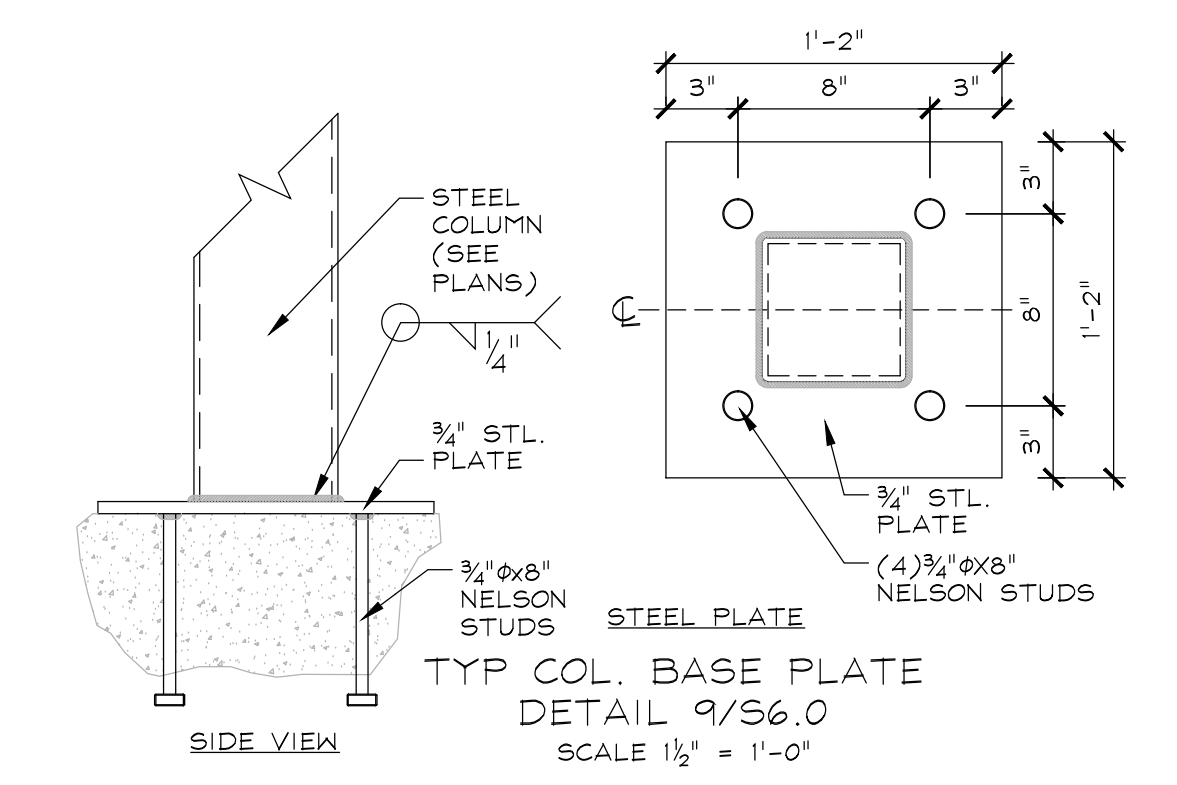
B. ALL FOOTINGS SHALL BEAR ON NATURAL SOIL PREPARED AS PER NOTES BELOW AND F.B.C.

C. SOIL PREPARATION AND COMPACTION SHALL BE DONE AS FOLLOWS:
SOIL TEST SHALL DETERMINE HOW GROUND PREPARATION IS TO BE DONE. IF SOIL TEST WARRANTS EXTREME MEASURES DISREGARD A THROUGH G. USE SOIL TEST REPORT RECOMMENDATIONS BY GEOTECHNICAL ENGINEER:

- STRIP ON FOOT OF EXISTING SOIL THREE (3) FEET EAST EXTERIOR BUILDING LINES. ALL DETRIMENTAL MATERIALS MUST BE COMPLETELY REMOVED.
 - COMPACT BOTTOM OF EXCAVATION WITH MEDIUM DUTY VIBRATOR ROLLER.
 - CHECK DENSITY OF 95% OF MODIFIED PROCTOR HAS BEEN REACHED FOR A DEPTH OF TWO (2) FEET BELOW COMPACT SURFACE BEFORE ADDING FILL.
 - AFTER EXISTING GROUND HAS REACHED MINIMUM DENSITY OF 95%, FILL SHALL BE PLACED IN SIX (6) INCH LIFTS AND COMPACTED TO ACHIEVE APPROVED DENSITY BEFORE NEXT LIFT IS ADDED.
 - FILL SHALL BE A-3 SAND FREE FROM DETRIMENTOUS MATERIAL AND WELL GRADED.
 - VERIFICATION OF TEST FOR MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D-1557, AASHTO-180 SHALL BE FILED WITH BUILDING OFFICIAL.
- D. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL CONCRETE FOOTINGS/PADS, LOAD BEARING WALLS, STEEL CONCRETE WOOD COLUMNS, WOOD HEADERS, CONCRETE BEAMS/ TRUSSES AND HEIGHT ELEVATIONS OF EACH WITH TRUSS MANUFACTURERS SHOP DRAWINGS BEFORE THE POURING OF CONCRETE FOOTINGS/PADS AND SLAB.
- E. COORDINATE A/C AND ELECTRICAL PLANS FOR REQUIRED OPENING IN SLAB.

GENERAL NOTES

THE FOLLOWING NOTES ARE APPLICABLE TO ALL DRAWINGS. THE CONTRACTOR SHALL OBTAIN LATEST SETS OF DRAWINGS INCLUDING ANY REVISIONS AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. ANY DEVIATIONS MUST BE SUBMITTED IN WRITING TO ARCHITECT FOR APPROVAL. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE, COUNTY, AND/OR MUNICIPAL CODES AND ORDINANCES. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER W/ ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWING TO VERIFY DIMENSIONS, LOCATIONS OF DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL TEMPORARILY BRACE ALL EARTH FORMS, CONCRETE, STEEL, WOOD, MASONRY, TO RESIST GRAVITY, EARTH, WIND AND CONSTRUCTION LOADS DURING CONSTRUCTION. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY FOR ALL LIKE OR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASER BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL A DRAWING DETAILING THE OPENING, LOCATION(S) AND SIZE PRIOR TO CONSTRUCTION. NO PENETRATION OF ANY STRUCTURAL MEMBER NOT SHOWN ON THE STRUCTURAL DRAWINGS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF BEAMS OR FOUNDATIONS. UNLESS NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE. COMPUTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. WHEN SPECIFICATIONS AND GENERAL NOTES DISAGREE, GENERAL NOTES WILL TAKE PRECEDENCE.



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