

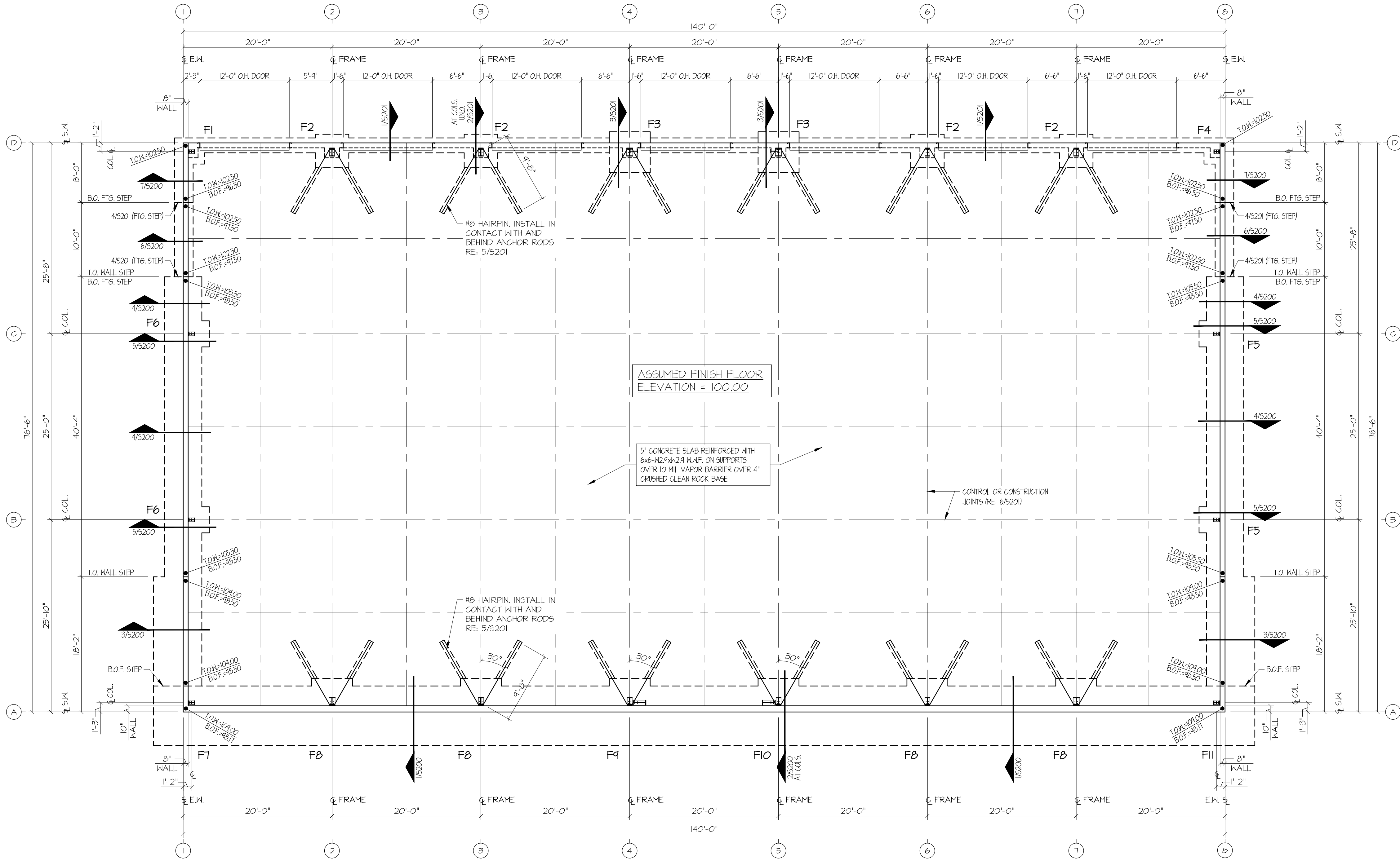
GENERAL NOTES

- FOOTING DESIGNS ARE BASED ON A MINIMUM NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO BE PAVED.
- EXCAVATE FOR STRUCTURES TO ELEVATIONS AND DIMENSIONS SHOWN, EXTENDING EXCAVATION TO A SUFFICIENT DISTANCE TO PERMIT PLACING AND REMOVAL OF FORMWORK, WHERE SOIL CONDITIONS PERMIT, SIDE FORMS MAY BE OMITTED, PROVIDED EXCAVATION CAN BE CUT TO ACCURATE DIMENSIONS AND SIDE WALLS DO NOT CAVE IN.
- PROVIDE A MINIMUM OF 4 INCHES OF GRANULAR FILL UNDER ALL SLABS-ON-GRADE AND WHERE INDICATED ON THE DRAWINGS, GRANULAR FILL SHALL BE A WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED AND UNCRUSHED GRAVEL, WITH 100 PERCENT PASSING A 1-1/2" SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
- BACKFILL AGAINST ANY WALLS OR CONSTRUCTION SHALL NOT BE PLACED UNLESS THE WALLS ARE ADEQUATELY BRACED TO WITHSTAND THE LOADS IMPOSED DUE TO BACKFILLING.
- A REGISTERED GEOTECHNICAL ENGINEER SHALL OBSERVE, TEST, AND APPROVE ALL EXCAVATION FILL AND BACKFILL WORK TO DETERMINE THAT SUBGRADE CONDITIONS ARE COMPATIBLE WITH THOSE USED IN THE DESIGN.
- THE GENERAL CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL PLANS WITH THOSE ON ARCHITECTURAL AND MECHANICAL DRAWINGS. IF ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT SUCH ERRORS, OMISSIONS, OR DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- PLANS INDICATE SIZE, LOCATION AND GENERAL ARRANGEMENT OF CONSTRUCTION, DIMENSIONS LACKING OR NOT DRAIN TO SCALE SHALL NOT BE SCALED BUT REFERRED TO THE ENGINEER FOR INTERPRETATION.
- REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ITEMS NOT SHOWN HEREIN AND TO VERIFY SIZE AND LOCATION OF ALL OPENINGS.

CONCRETE NOTES

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS".
- CONCRETE MATERIALS SHALL COMPLY WITH:
 - A. CEMENT - ASTM C150 TYPE I
 - B. AGGREGATE - ASTM C33, MAXIMUM AGGREGATE SIZE 3/4 INCH
 - C. WATER - POTABLE
 - D. AIR ENTRAINING ADMIXTURE - ASTM C260
 - E. WATER-REDUCING ADMIXTURE - ASTM C494, INCLUDING SUPER PLASTICIZERS
 - F. FLY ASH - ASTM C681, CLASS C
- CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTH (F_c), (EXCEPT AS NOTED ON THE DRAWINGS):

TYPE OF CONSTRUCTION	COMPRESSIVE STRENGTH (F _c)
A. FOOTINGS, FOUNDATIONS, WALLS	3000 PSI
B. INTERIOR SLABS	4000 PSI
C. EXTERIOR SLABS, WALLS AND CURBS (AIR ENTRAINED CONCRETE)	4000 PSI
- CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 318-04 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED IN THE MIX, MIX SHALL CONTAIN A WATER REDUCER. FLY ASH SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE THAN 15 PERCENT BY WEIGHT.
- PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF PLACEMENT OF NOT MORE THAN 4 INCHES.
- USE OF AIR-ENTRAINING ADMIXTURE IN EXTERIOR EXPOSED CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- SAMPLING AND TESTING FOR QUALITY CONTROL DURING PLACEMENT OF CONCRETE SHALL INCLUDE THE FOLLOWING, WITH ALL SAMPLING AND TESTING BEING DONE BY A COMMERCIAL TESTING LABORATORY. THIS TESTING DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF PROVIDING CONCRETE IN COMPLIANCE WITH SPECIFICATIONS.
 - A. SAMPLING - ASTM C172
 - B. SLUMP - ASTM C143, ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.
 - C. AIR CONTENT - ASTM C173 OR ASTM C231, ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.
 - D. COMPRESSIVE TEST SPECIMENS - ASTM C31, ONE SET OF 4 CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF WITH A MINIMUM OF ONE SET FOR EACH DAY'S PLACEMENT.
 - E. COMPRESSIVE STRENGTH TEST - ASTM C39, TEST ONE SPECIMEN AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED. TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, ENGINEER, CONTRACTOR AND CONCRETE PRODUCER ON THE SAME DAY TESTS ARE MADE.
- NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE. CHLORIDES IN ANY FORM OR CONCENTRATION SHALL NOT BE ADDED TO ANY CONCRETE.
- REINFORCING STEEL
 - A. REINFORCING BARS - ASTM A615 GRADE 60, EXCEPT TIES AND STIRRUPS MAY BE GRADE 40, DEFORMED.
 - B. WELDED WIRE FABRIC - ASTM A185.
 - C. ACCESSORIES AND SUPPORTS FOR REINFORCEMENT - COMPLY WITH CRSI RECOMMENDATIONS.
 - D. BARS MARKED CONTINUOUS AND ALL VERTICAL STEEL SHALL BE LAPPED OR EMBEDDED TO DEVELOP THE FULL TENSILE CAPACITY OF THE BAR. LAPS SHALL BE CLASS B, UNLESS SHOWN OTHERWISE, SPLICE TOP BARS NEAR MIDSPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.
- CONCRETE WORK EXECUTION
 - A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DEVIATION. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
 - CAST AGAINST EXPOSED TO EARTH.....3 INCHES
 - EXPOSED TO EARTH OR WEATHER.....2 INCHES
 - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1/2 INCHES
 - C. PLACE CONCRETE IN COMPLIANCE WITH ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".
 - D. CONSOLIDATE PLACED CONCRETE USING MECHANICAL VIBRATING EQUIPMENT, SO THAT CONCRETE IS WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO FORMS.
 - E. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED; REINFORCE CONCRETE NOT OTHERWISE INDICATED WITH SAME REINFORCEMENT AS SIMILAR SECTION.
 - F. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES. IN COLD WEATHER COMPLY WITH ACI 306; IN HOT WEATHER COMPLY WITH ACI 305.
 - G. IN CORNERS OF GRADE BEAMS AND WALLS, PROVIDE CORNER REINFORCEMENT (LAP TWO FEET EACH DIRECTION) IN OUTSIDE FACE, MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT. PROVIDE THREE #4 SUPPORT BARS WHERE REQUIRED FOR SUPPORT OF CORNER BARS.
 - H. AT OPENINGS IN WALLS, ADD ONE #5 BAR (OPENING DIMENSION PLUS 60 BAR DIAMETERS) EACH FACE, EACH SIDE OF OPENING AND ONE #5 BAR BY 5'-0" DIAGONALLY EACH FACE, EACH CORNER OF OPENING. I. PROVIDE ONE #5 BAR DIAGONALLY AT EACH FACE OF ALL STEPS IN GRADE BEAMS AND FOUNDATION WALLS.
 - J. PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AS SHOWN ON SHEET S100.
 - K. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - L. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309, ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.
 - M. REMOVE FORMS AND PROJECTIONS, REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT GROUT IMMEDIATELY AFTER FORM REMOVAL.
- COORDINATE CONCRETE WORK WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR CONCRETE FINISHES, RECESSED AREAS, BRICK SHELVES, STAIRS, EMBEDDED ITEMS AND OTHER CONDITIONS.



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

SPECIAL INSPECTIONS:

- THE FOLLOWING ITEMS REQUIRE THIRD PARTY SPECIAL INSPECTION IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE.
 - A. EXCAVATION AND FILLING
 - B. VERIFICATION OF SOILS SUPPORTING THE FOOTINGS
 - C. PLACEMENT OF REINFORCING STEEL IN CONCRETE
 - D. PLACEMENT OF ANCHOR RODS IN CONCRETE
 - E. SAMPLING AND TESTING OF CONCRETE
 - F. HIGH STRENGTH BOLTING
 - G. STEEL FRAME INSPECTIONS
 - H. POST INSTALLED ANCHORS (IF NECESSARY)
- THE OWNER SHALL RETAIN THE SERVICES OF A SPECIAL INSPECTION TESTING AGENCY. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE TESTING AGENCY BEFORE ANY WORK BEGINS. THE PURPOSE OF THE MEETING WILL BE TO COORDINATE THE REQUIREMENTS OF THE CONTRACTOR GIVING NOTICE TO THE TESTING AGENCY SO THAT THE INSPECTORS CAN BE SCHEDULED TO BE ON SITE WHEN NEEDED. THE CONTRACTOR AND TESTING AGENCY SHALL ALSO MAKE SURE EVERYONE IS CLEAR ON THE SPECIFIC ITEMS THAT ARE REQUIRED TO BE TESTED.
- AFTER EACH INSPECTION, THE SPECIAL INSPECTOR SHALL GIVE THE CONTRACTOR AN INSPECTION REPORT. ANY NON-CONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR AND NOTED ON THE REPORT.
- THE GENERAL CONTRACTOR SHALL MAINTAIN A FILE FOR THE SPECIAL INSPECTOR'S DAILY AND BI-WEEKLY REPORTS. THIS FILE SHALL BE KEPT UP TO DATE AND MAINTAINED IN THE PROJECT TRAILER/OFFICE.
- THE SPECIAL INSPECTOR SHALL SUBMIT A BI-WEEKLY REPORT TO THE CONTRACTOR, OWNER AND ENGINEER OF RECORD UNTIL ALL WORK REQUIRING SPECIAL INSPECTIONS IS COMPLETE. EACH BI-WEEKLY REPORT SHALL INCLUDE THE FOLLOWING:
 - A. A BRIEF SUMMARY OF THE WORK PERFORMED DURING THE REPORTING TIME FRAME.
 - B. A COPY OF THE DAILY REPORTS DOCUMENTING SPECIAL INSPECTIONS PERFORMED DURING THE REPORTING TIME FRAME.
 - C. DISCREPANCIES WHICH WERE RESOLVED OR CORRECTED.
 - D. A LIST OF NONCONFORMING ITEMS REQUIRING RESOLUTION.
 - E. ALL APPLICABLE TEST RESULTS
- WHEN ALL WORK REQUIRING SPECIAL INSPECTIONS IS COMPLETED AND ALL NONCONFORMING ITEMS HAVE BEEN RESOLVED, THE GENERAL CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTION AGENCY TO SUBMIT A FINAL SPECIAL INSPECTIONS REPORT TO THE CONTRACTOR, OWNER AND ENGINEER OF RECORD.

FOOTING SCHEDULE

FTG. MARK	FOOTING SIZE (WxLxT) FOOTING REINFORCING	SECTION NUMBER	PLAN DETAIL	ANCHOR BOLTS (GTY.) DIA. x (L)
F1	3'-6" x 4'-0" x 1'-0" (5) #5 x 3'-0" (4) #5 x 3'-6"	2/5201 51M	A/5300	(4) 5/8" x 18" LONG
F2	4'-6" x 4'-6" x 1'-0" (5) #5 x 4'-0" E.H.	2/5201	B/5300	(4) 3/4" x 21" LONG
F3	5'-6" x 5'-6" x 1'-4" (6) #5 x 5'-0" E.H.	3/5201	C/5300	(4) 3/4" x 21" LONG
F4	3'-6" x 4'-0" x 1'-0" (5) #5 x 3'-0" (4) #5 x 3'-6"	2/5201 51M	D/5300	(4) 5/8" x 18" LONG
F5	3'-6" x 6'-0" x 1'-0" (1) #5 x 3'-0" (4) #5 x 5'-6"	5/5200	E/5300	(4) 5/8" x 18" LONG
F6	3'-6" x 6'-0" x 1'-0" (1) #5 x 3'-0" (4) #5 x 5'-6"	5/5200	F/5300	(4) 5/8" x 18" LONG
F7	RETAINING WALL FOOTING NO ADDITIONAL REINFORCING	1/5200 3/5200	G/5300	(4) 5/8" x 18" LONG
F8	5'-6" x 4'-0" x 1'-4" (10) #5 x 5'-0" (6) #5 x 8'-6"	2/5200	H/5300	(4) 3/4" x 21" LONG
F9	5'-6" x 4'-0" x 1'-4" (10) #5 x 5'-0" (6) #5 x 8'-6"	2/5200	J/5300	(8) 3/4" x 21" LONG
F10	5'-6" x 4'-0" x 1'-4" (10) #5 x 5'-0" (6) #5 x 8'-6"	2/5200	K/5300	(8) 3/4" x 21" LONG
F11	RETAINING WALL FOOTING NO ADDITIONAL REINFORCING	1/5200 3/5200	L/5300	(4) 5/8" x 18" LONG

LAMPEN ENGINEERING, INC.
P.O. Box 1054
Blue Springs, MO 64018
(816) 220-0246
JOSEPH G. LAMPEN, P.E.
MO. CERT. OF AUTHORITY NO. 00-01864

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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOSEPH G. LAMPEN
NUMBER E-24760
Joseph G. Lampen
1-28-22

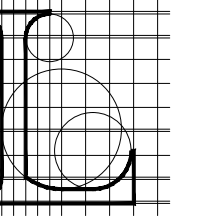
NEW BUILDING FOR
CP GROUP LLC - PRIDE FITNESS CENTER
SOBBIE ROAD
PLEASANT VALLEY, MISSOURI

DATE: 5-19-22

NO.	REVISIONS	Description	Date
1	REVISED PER FINAL PERM DRAWINGS		7-28-22

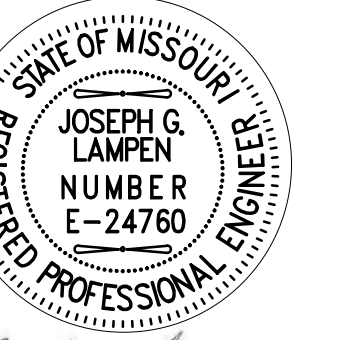
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Blue Springs, MO 64018
(816) 220-0246
JOSEPH G. LAMPEN, P.E.
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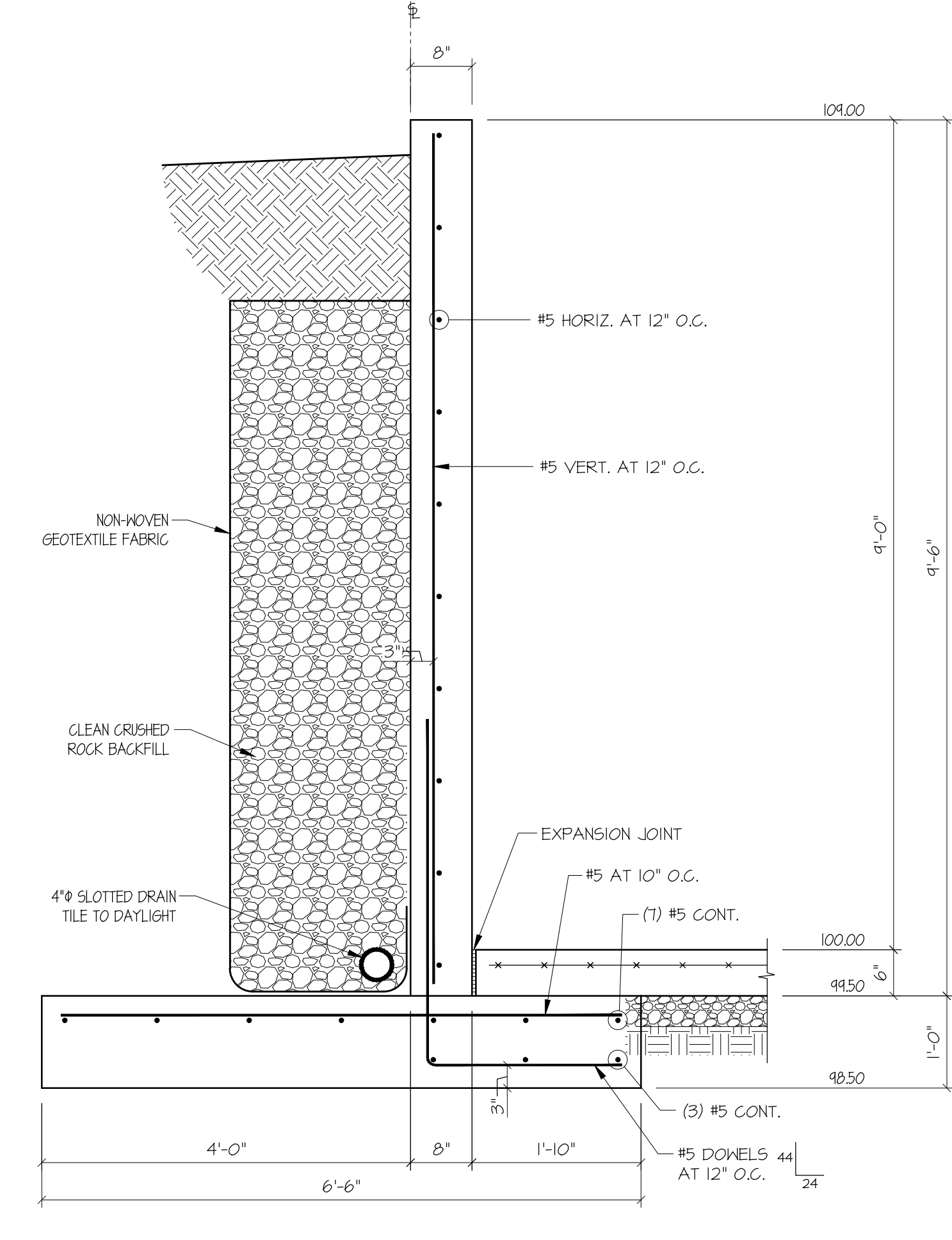
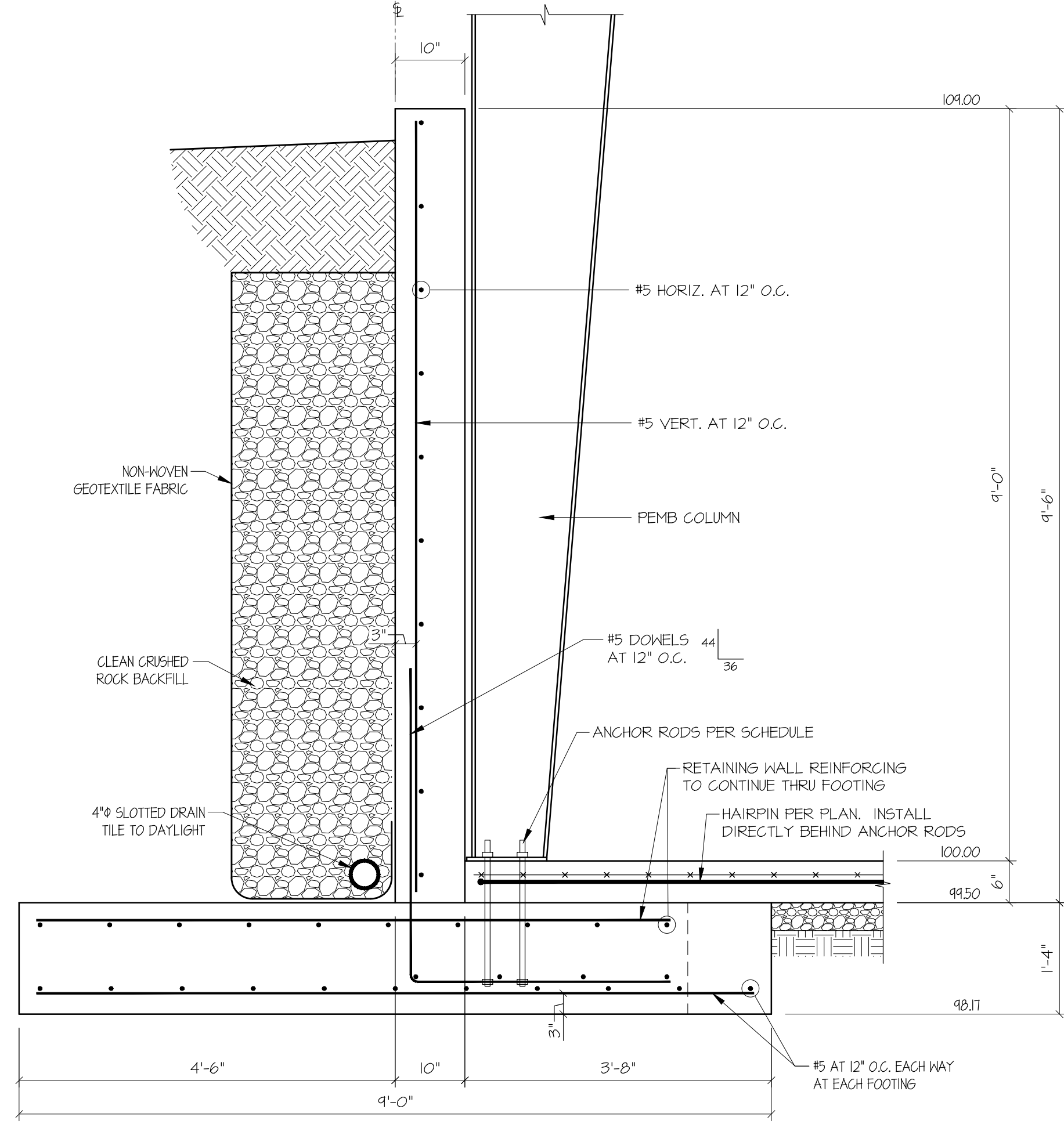
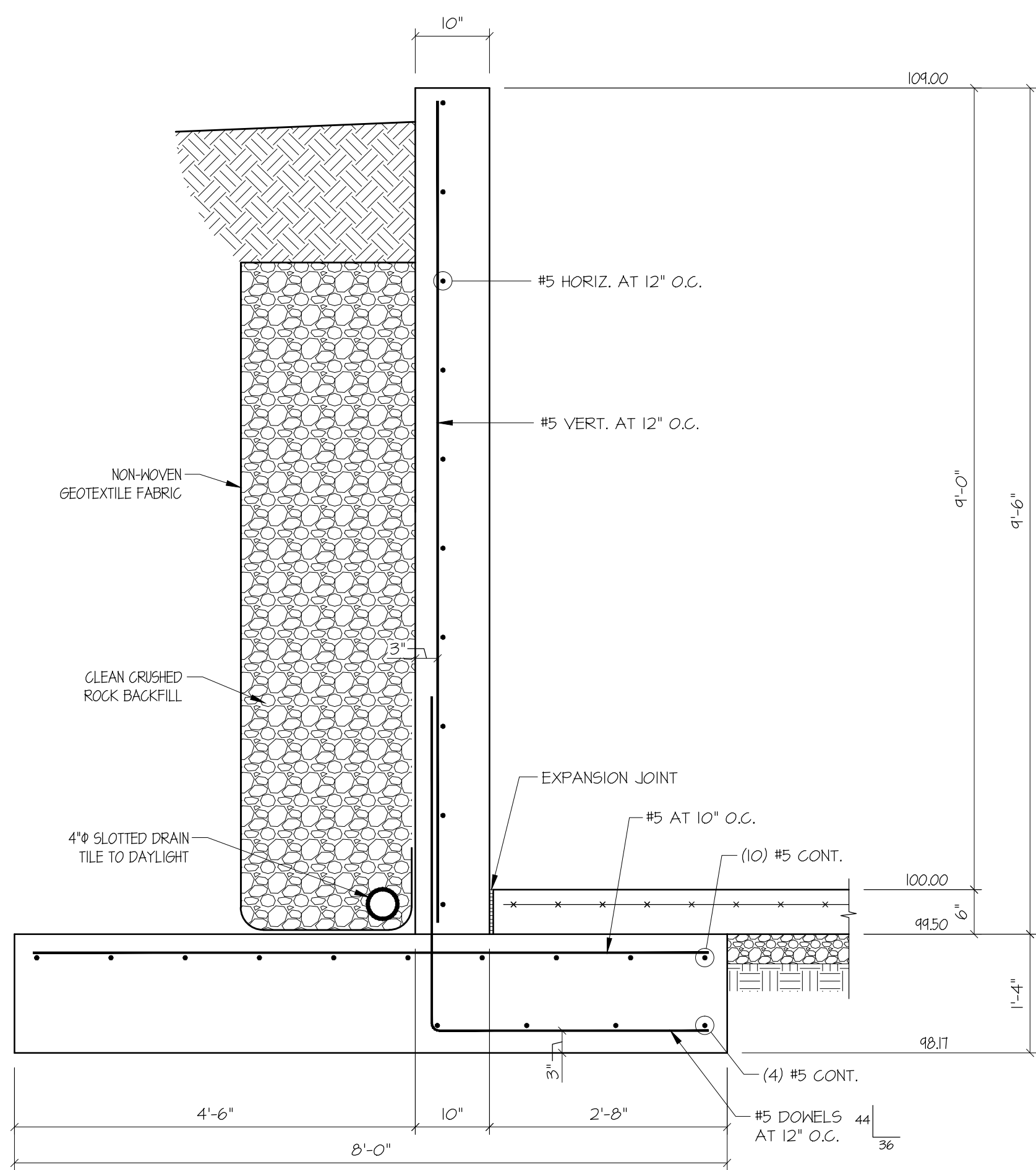


Joseph G. Lampen
7-28-22

NEW BUILDING FOR
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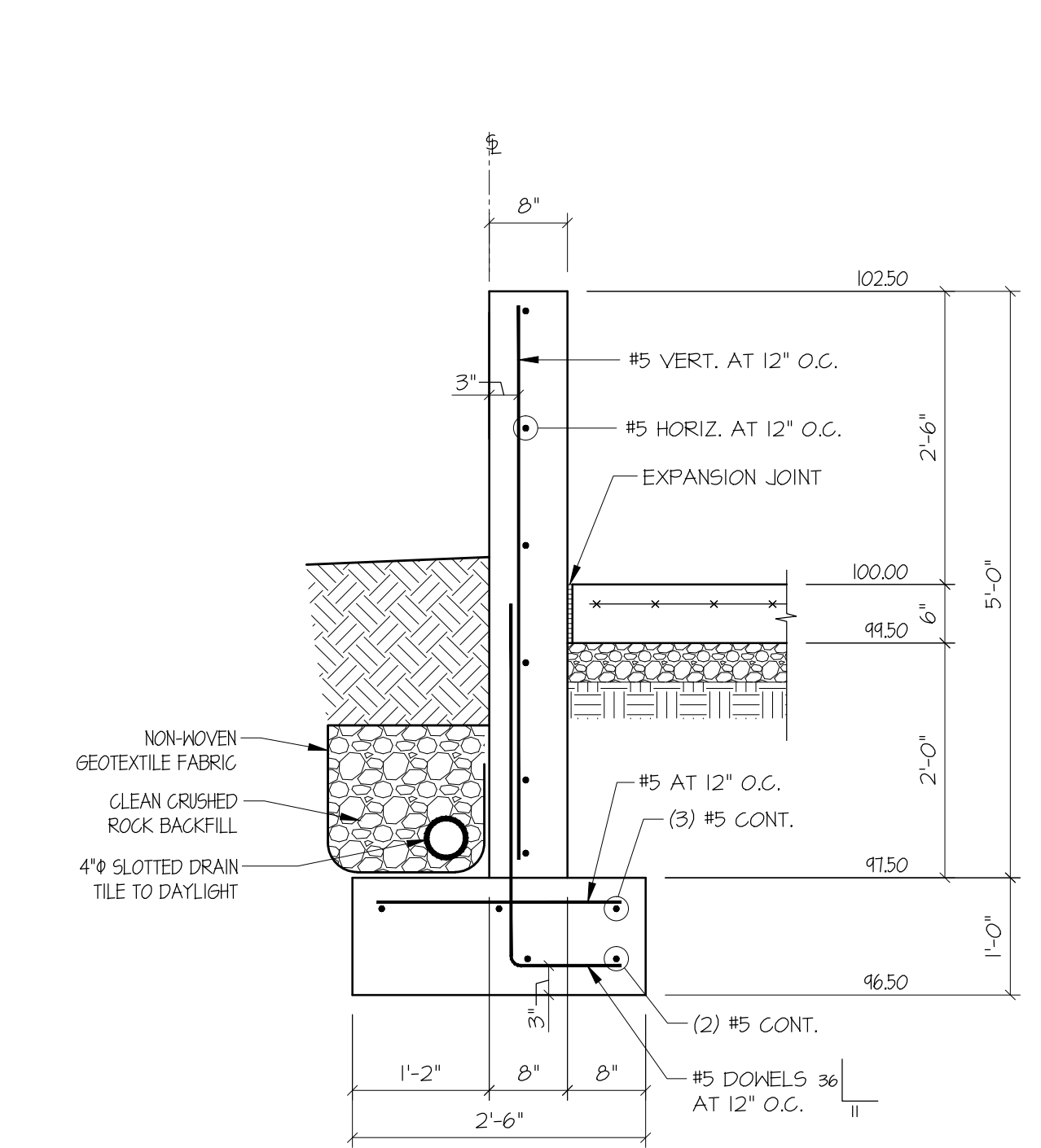
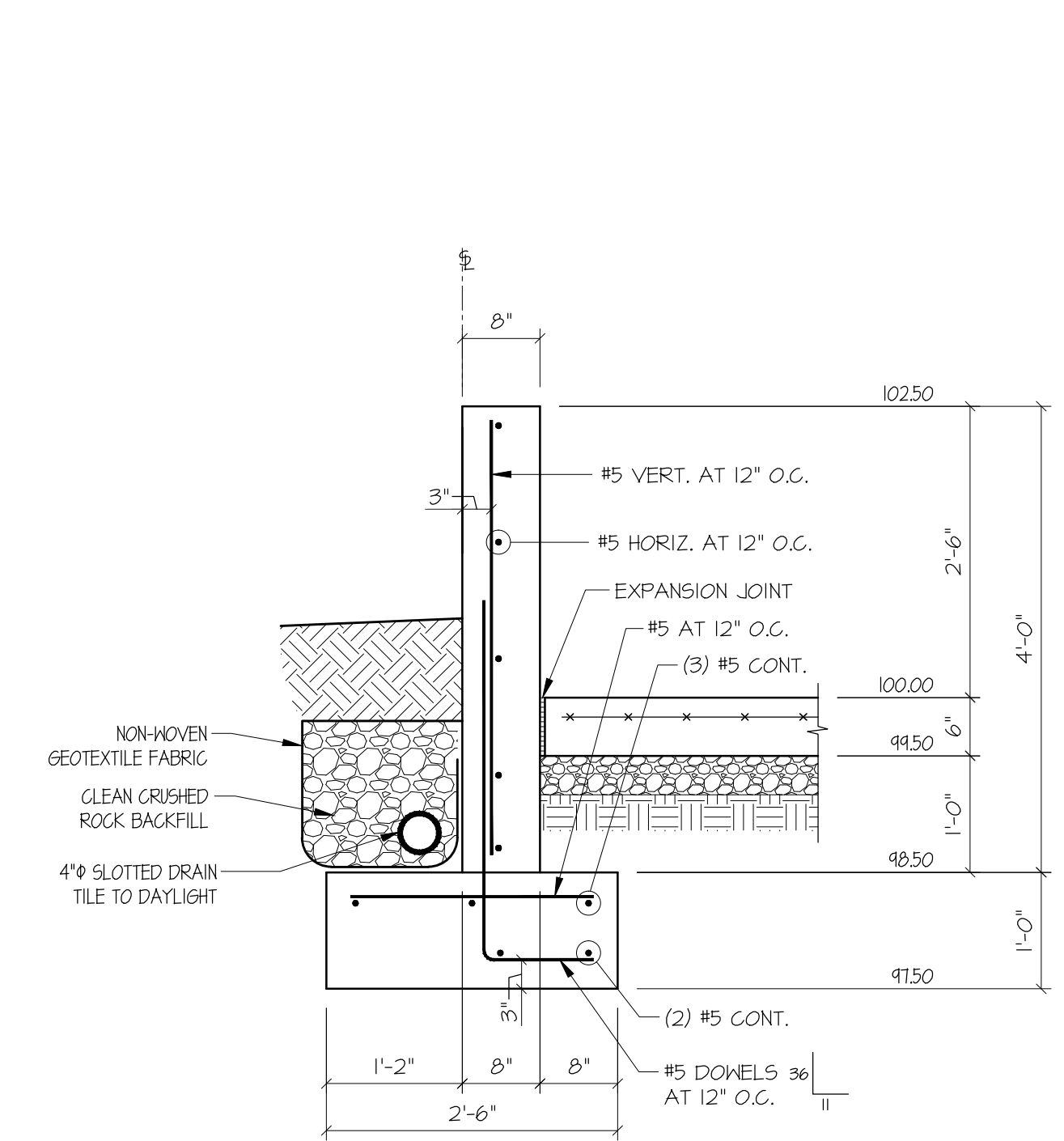
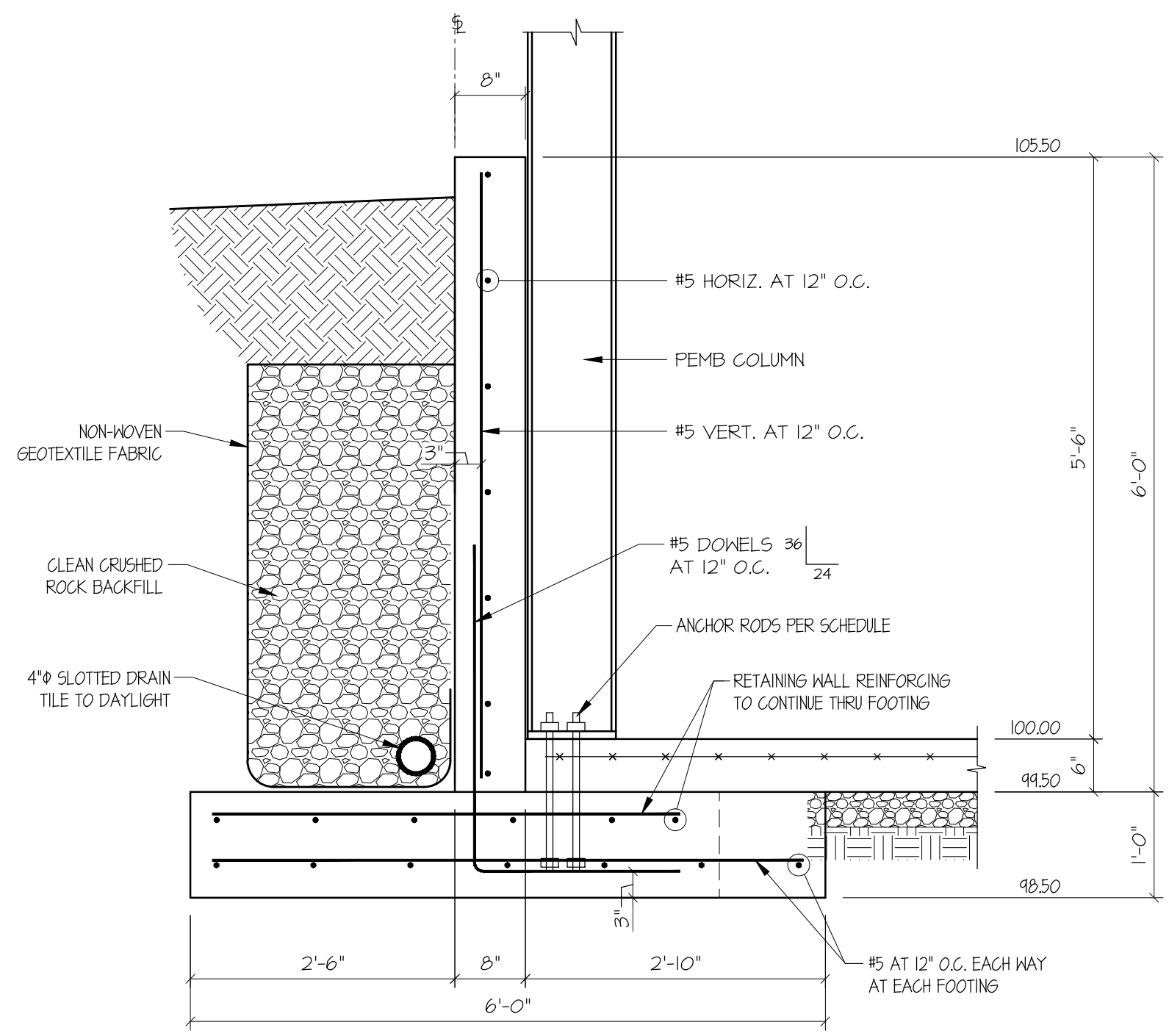
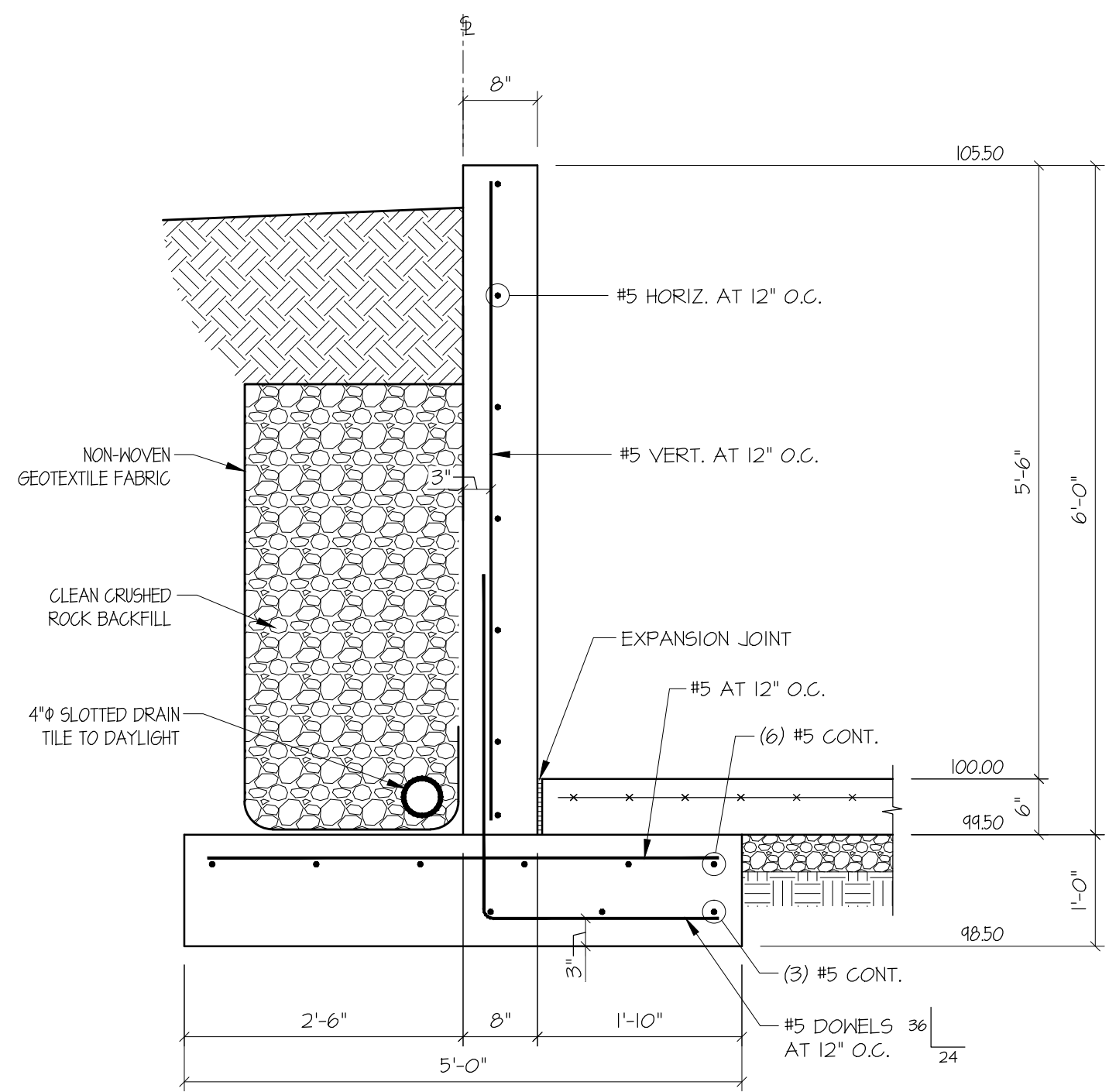
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PROJECT # 22-04-005



1/S200 SCALE: 3/4" = 1'-0" SECTION

2/S200 SCALE: 3/4" = 1'-0" SECTION

3/S200 SCALE: 3/4" = 1'-0" SECTION



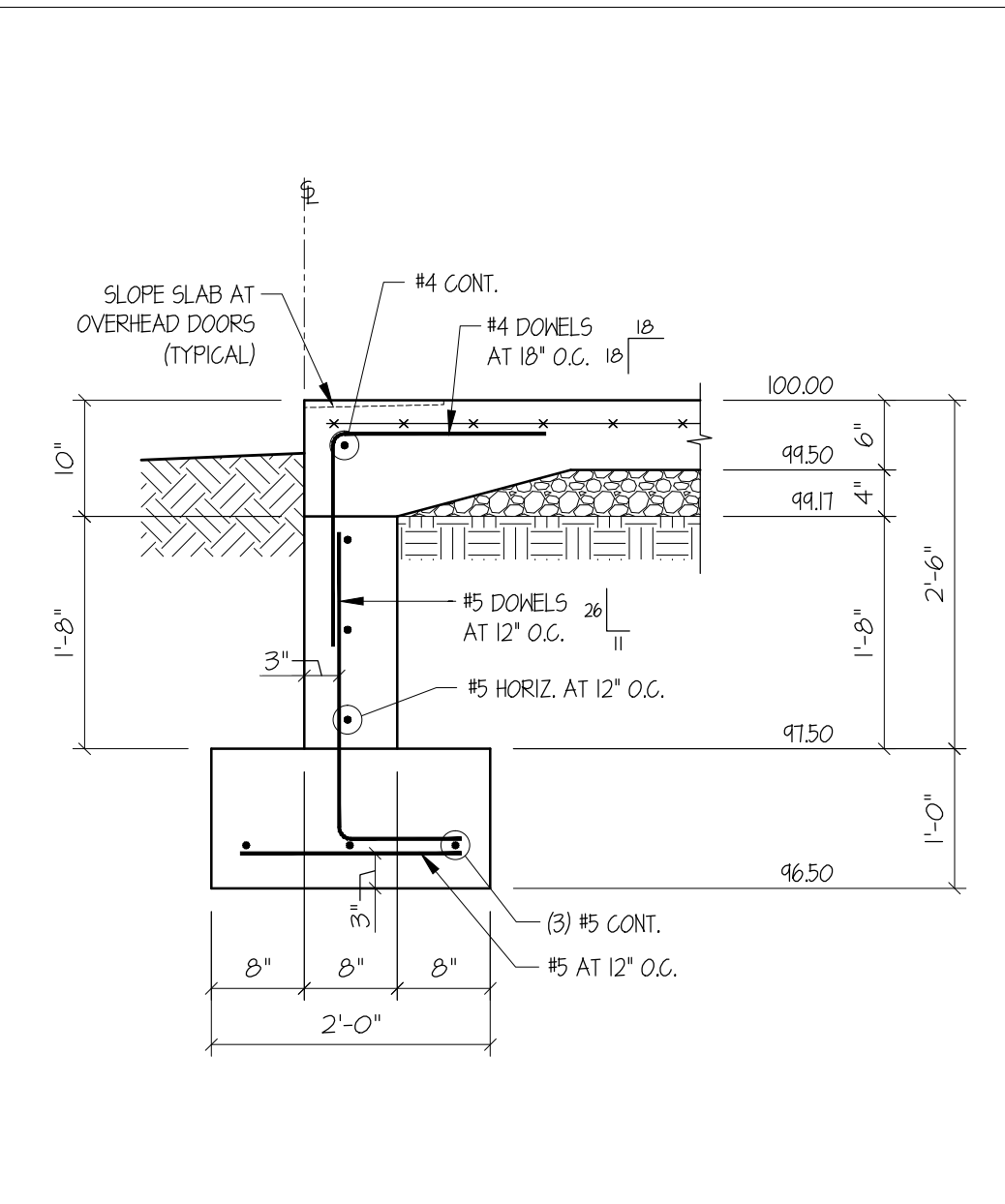
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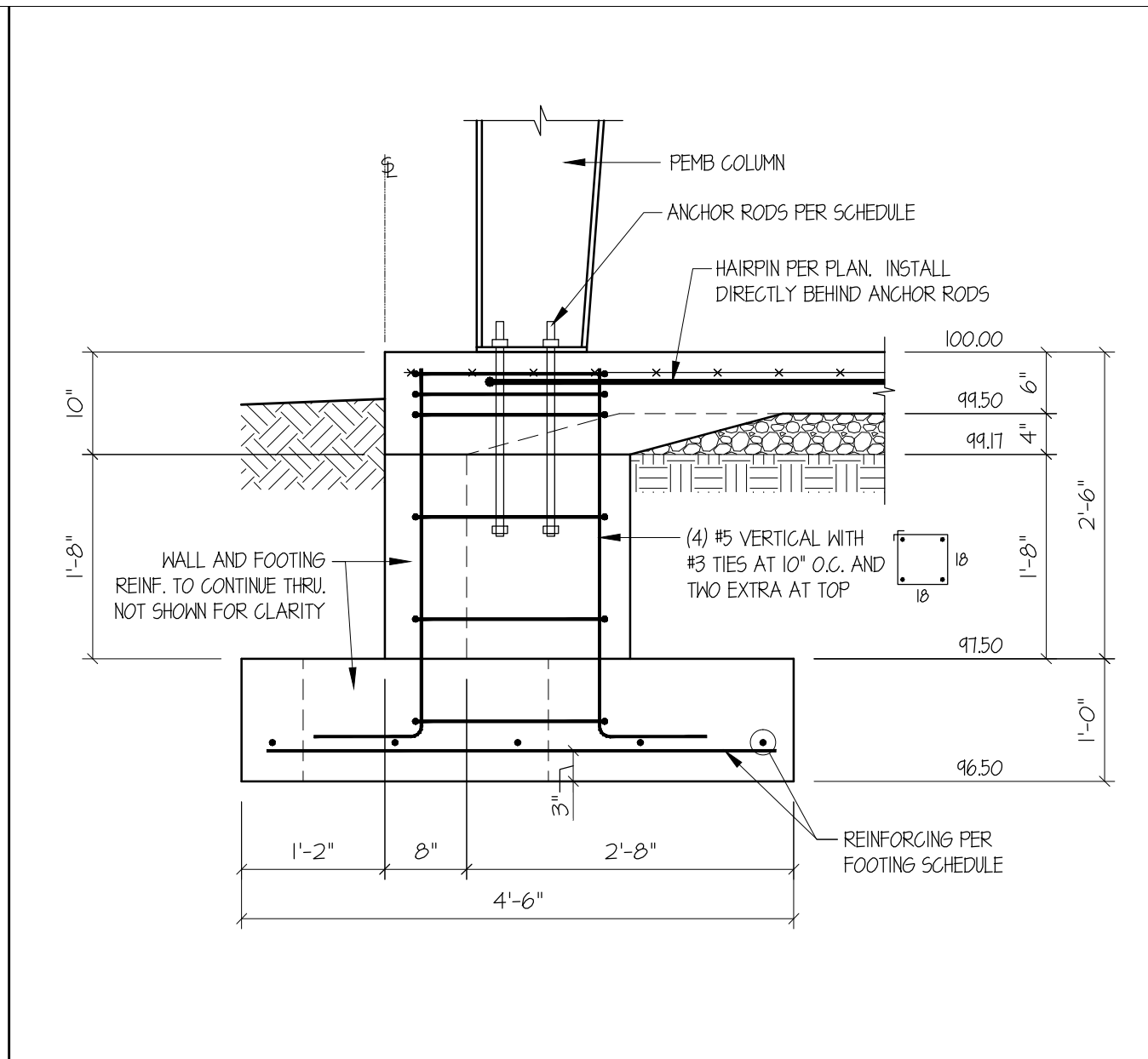
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7/S200 SCALE: 3/4" = 1'-0" SECTION

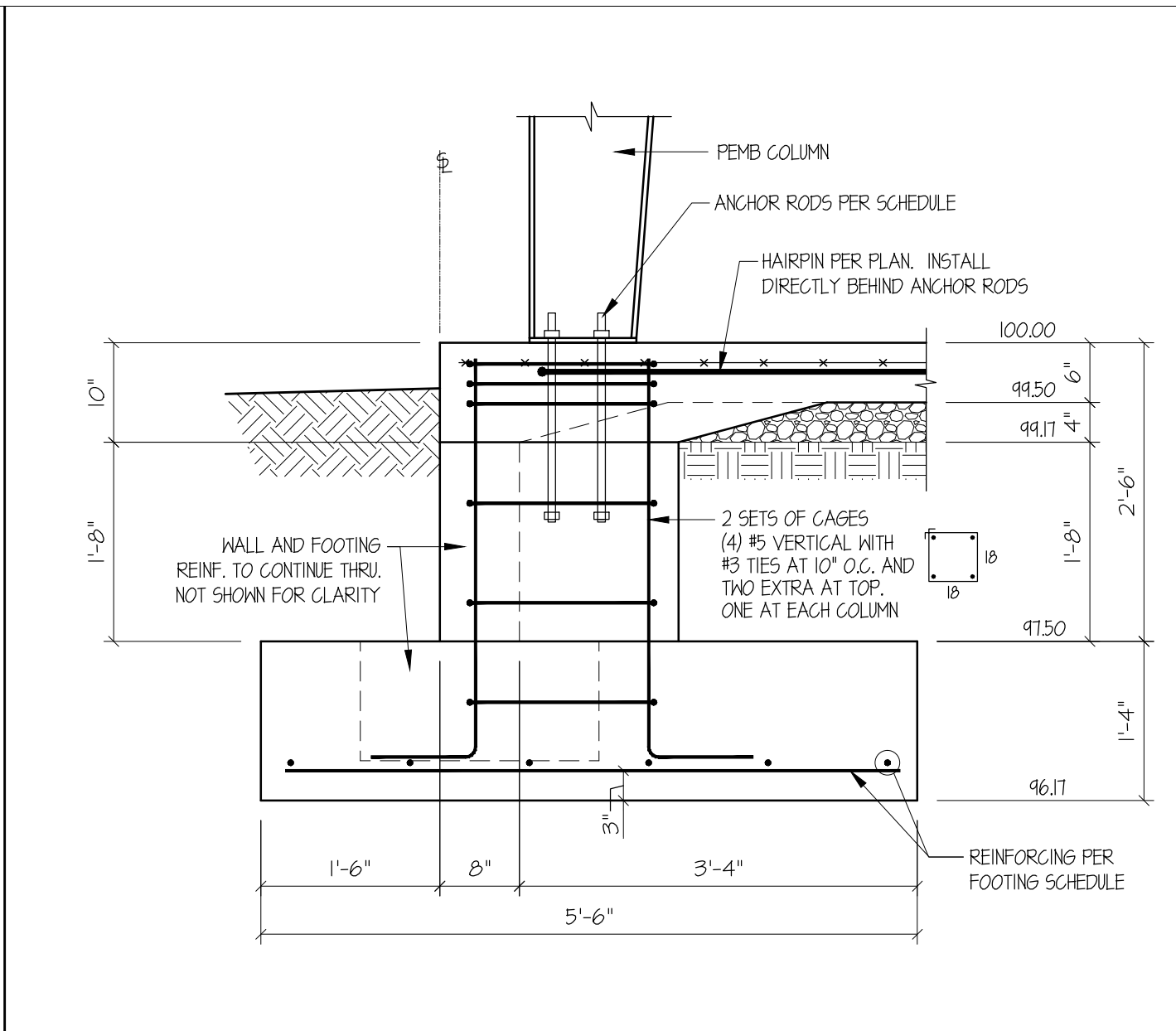
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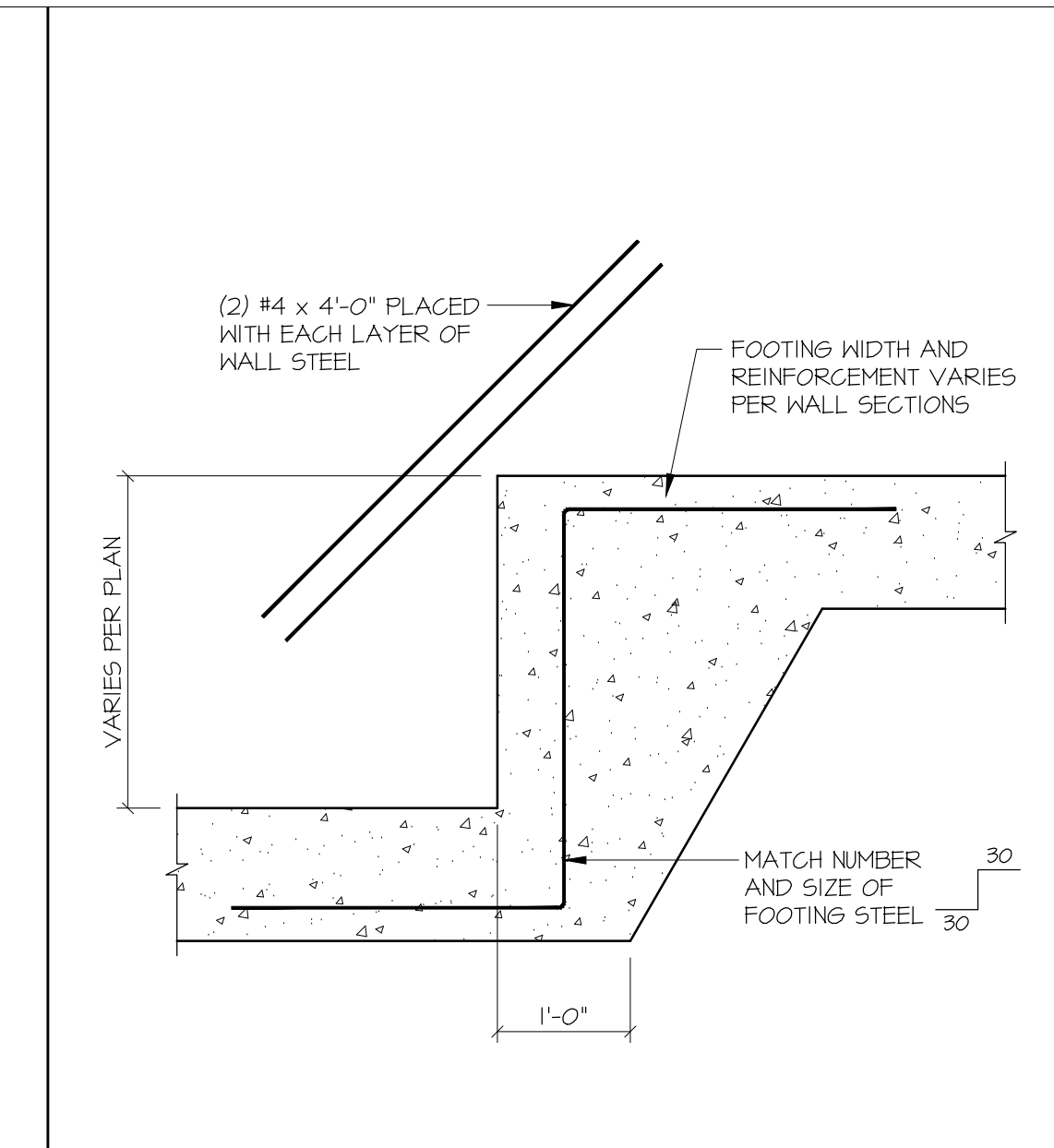
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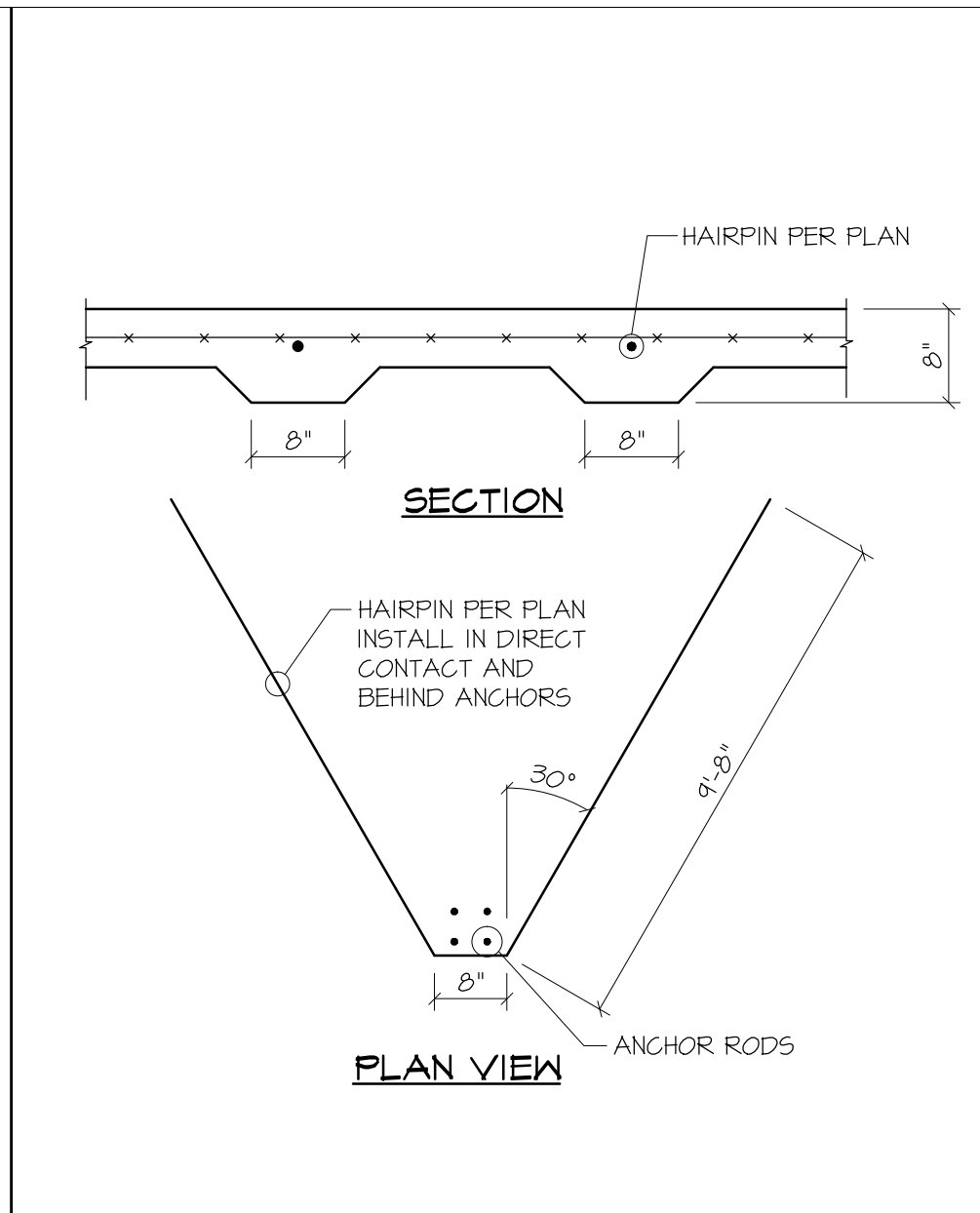
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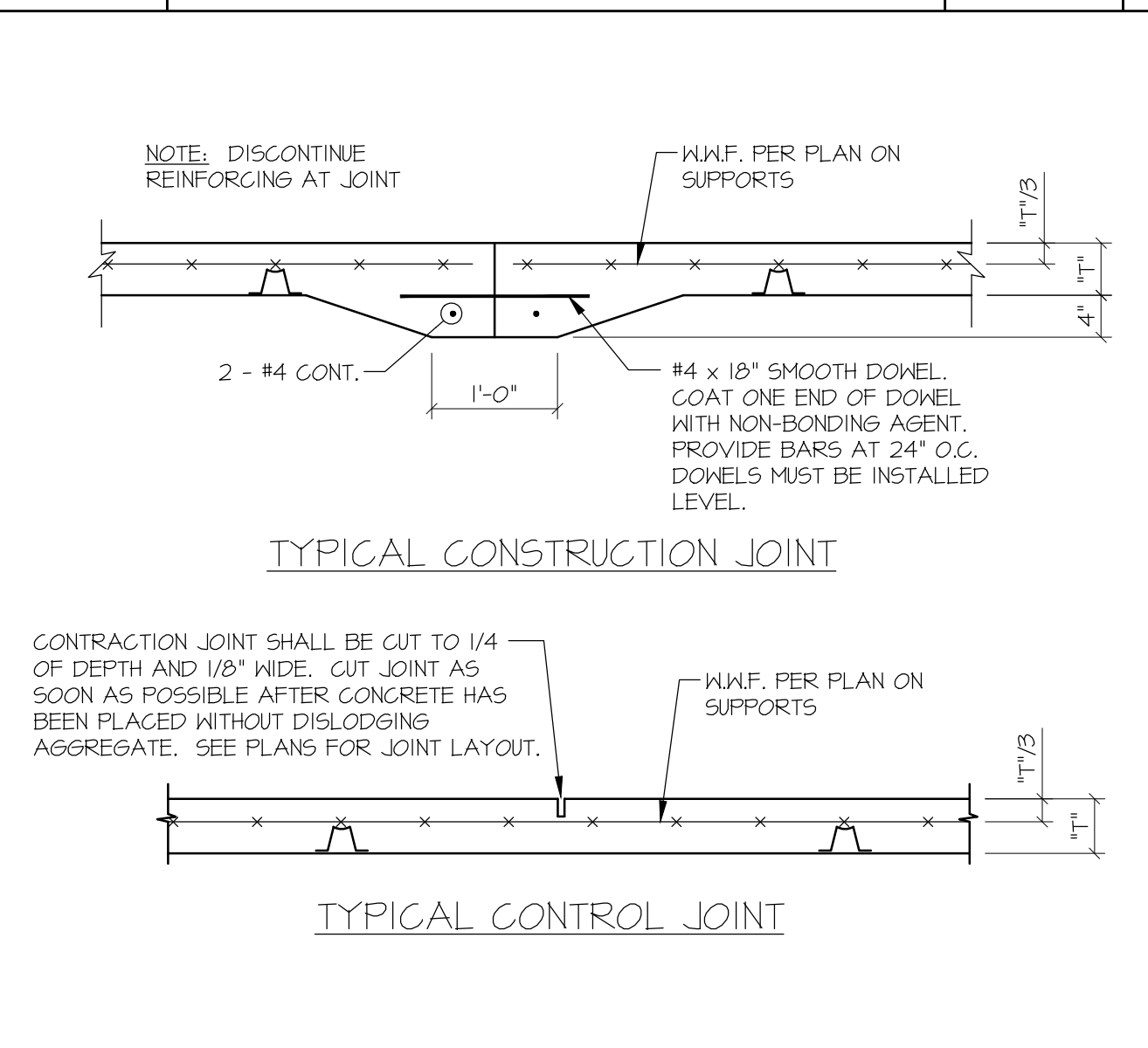
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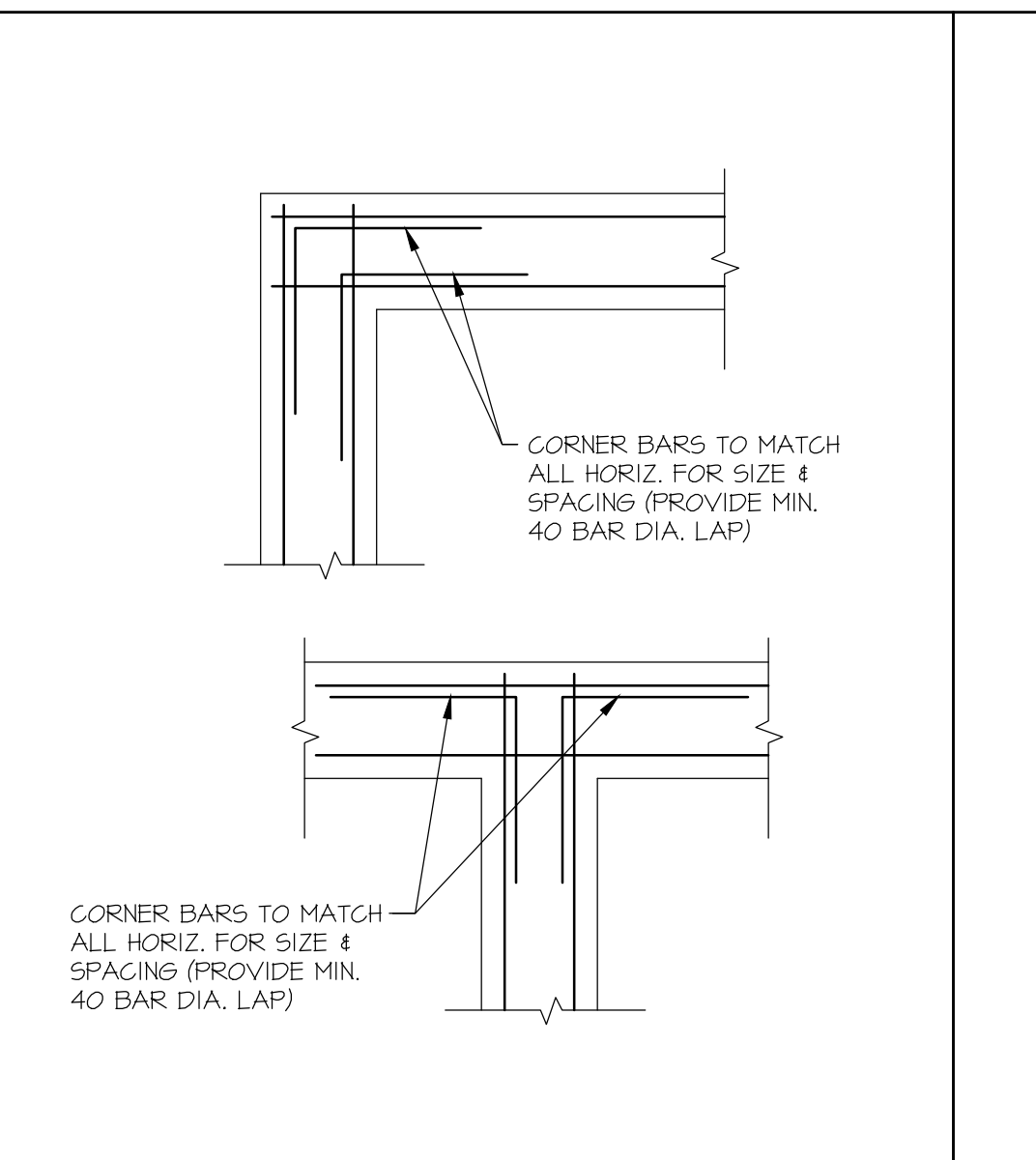
4/S201 SCALE: N.T.S. FOOTING STEP SECTION



5/S201 SCALE: N.T.S. HAIRPIN DETAIL



6/S201 SCALE: N.T.S. SLAB JOINT DETAILS



7/S201 SCALE: N.T.S. CORNER REINFORCING

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S201

