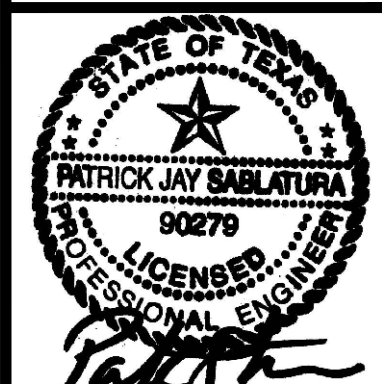




FOUNDATION ENGINEER
(833)SLAB-NOW

3 DAY DESIGN CO.



01-05-26

NEW CONSTRUCTION - SPORT COURT
2805 RR 2341
BURNET, TEXAS
JOB # 260005

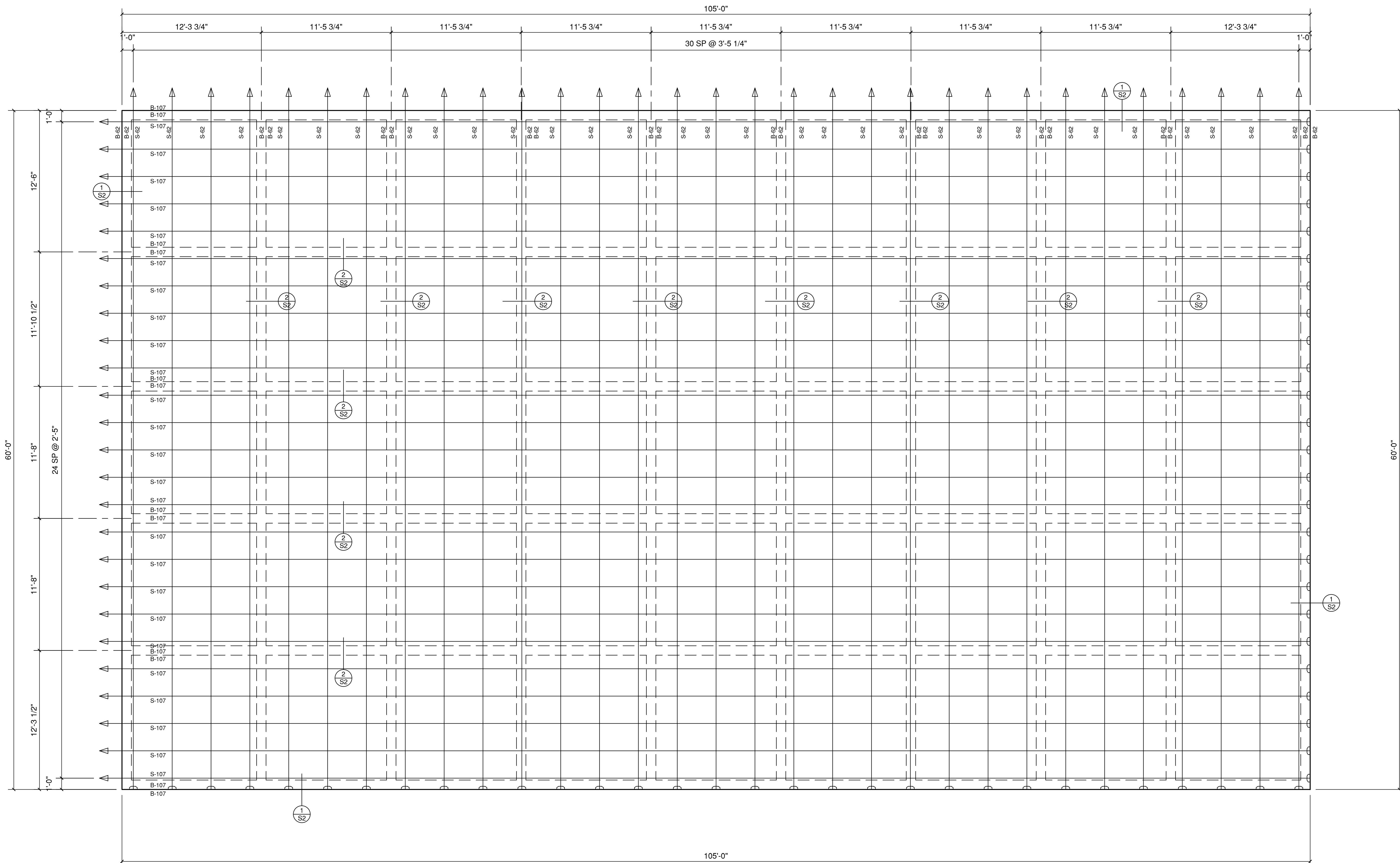
REV/ 01-05-26

UTILIZING THIS DESIGN FOR ANY PROJECT OTHER THAN THE ONE LISTED ON THIS SHEET IS ILLEGAL AND STRICTLY PROHIBITED.

FOUNDATION PLAN

SCALE:
1/4"=1'-0"
PAGE SIZE:
ARCH 'D'
24" X 36"

S1



CONTRACTOR TO ENSURE ALL POST TENSION CABLE ANCHORS ARE PROPERLY INSTALLED AND SUPPORTED IN-PLACE DURING CONCRETE INSTALL AND COMPLETION.

DESIGN SPECIFIC LEGAL INFORMATION
THIS ENGINEERING DESIGN PLAN SHALL BE USED ONLY FOR THE SPECIFIC PROJECT AS LISTED ON THE TITLEBLOCK. THIS DESIGN CANNOT BE REUSED FOR IDENTICAL OR SIMILAR BUILDINGS ON THE SAME PROJECT SITE OR ANY OTHER PROJECT SITE WITHOUT THE EXPRESSED WRITTEN CONSENT OF SYNERGETIC ENGINEERING/ 3 DAY DESIGN. UTILIZING THIS DESIGN PLAN FOR ADDITIONAL BUILDINGS/PROJECTS IS STRICTLY ILLEGAL.

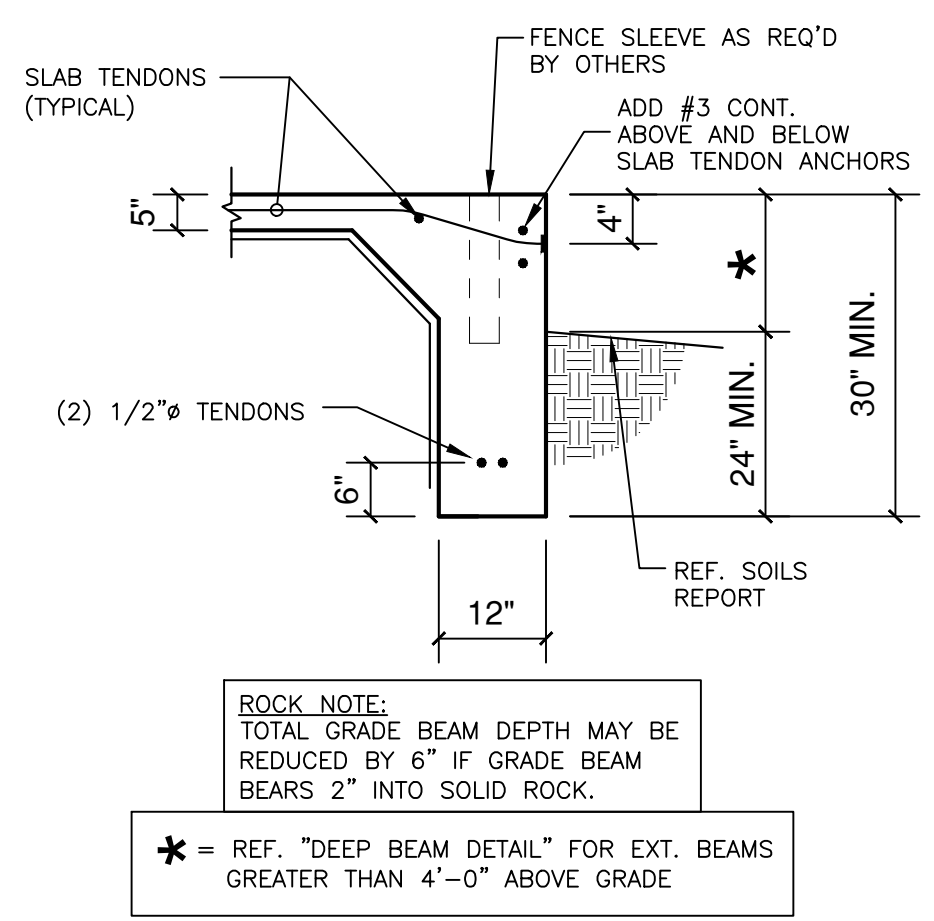
THE CONCRETE CURING PROCESS MAY INDUCE NON-STRUCTURAL SHRINKAGE CRACKS IN THE FOUNDATION. HAND-TOOLED CONTRACTION JOINTS AND/OR ADDING 6X6 - W1.4XW1.4 WELDED WIRE FABRIC PLACED ON TOP OF SLAB TENDONS MAY BE INSTALLED IN AN EFFORT TO MITIGATE THE SIZE, LENGTH, AND NUMBER OF THESE NON-STRUCTURAL SHRINKAGE CRACKS. SYNERGETIC ENGINEERING / 3 DAY DESIGN IS NOT RESPONSIBLE FOR THESE THESE CRACKS AS THEY ARE PURELY COSMETIC IN NATURE AND DO NOT REPRESENT STRUCTURAL DESIGN DEFECTS. CONTRACTOR TO VERIFY CONTRACTION JOINT REQUIREMENTS WITH OWNER PRIOR TO POURING CONCRETE.

BUILDER/CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY ALL SLAB DROP LOCATIONS, DIMENSIONS, DEPTH, OFFSETS AND FEATURES. BUILDER/CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO SETTING FORMS. DO NOT SCALE PLAN. REPORT ANY DISCREPANCIES TO THE ENGINEER.

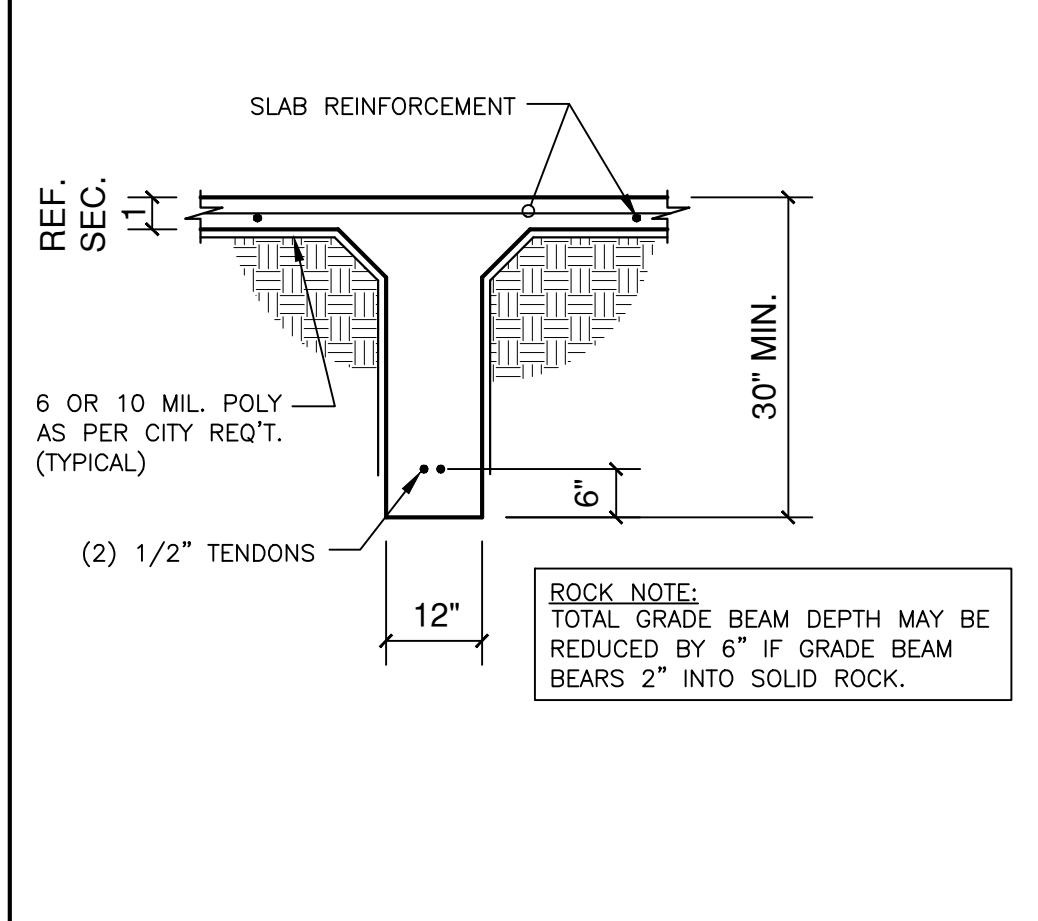
SLOPE TOP OF SLAB FOR DRAINAGE AS REQUIRED PER BUILDER AND/OR OWNER.

S-XX = SLAB TENDON LENGTH (+2'-0")
B-XX = BEAM TENDON LENGTH (+2'-0")
GRADE BEAM TENDONS NOT SHOWN FOR CLARITY

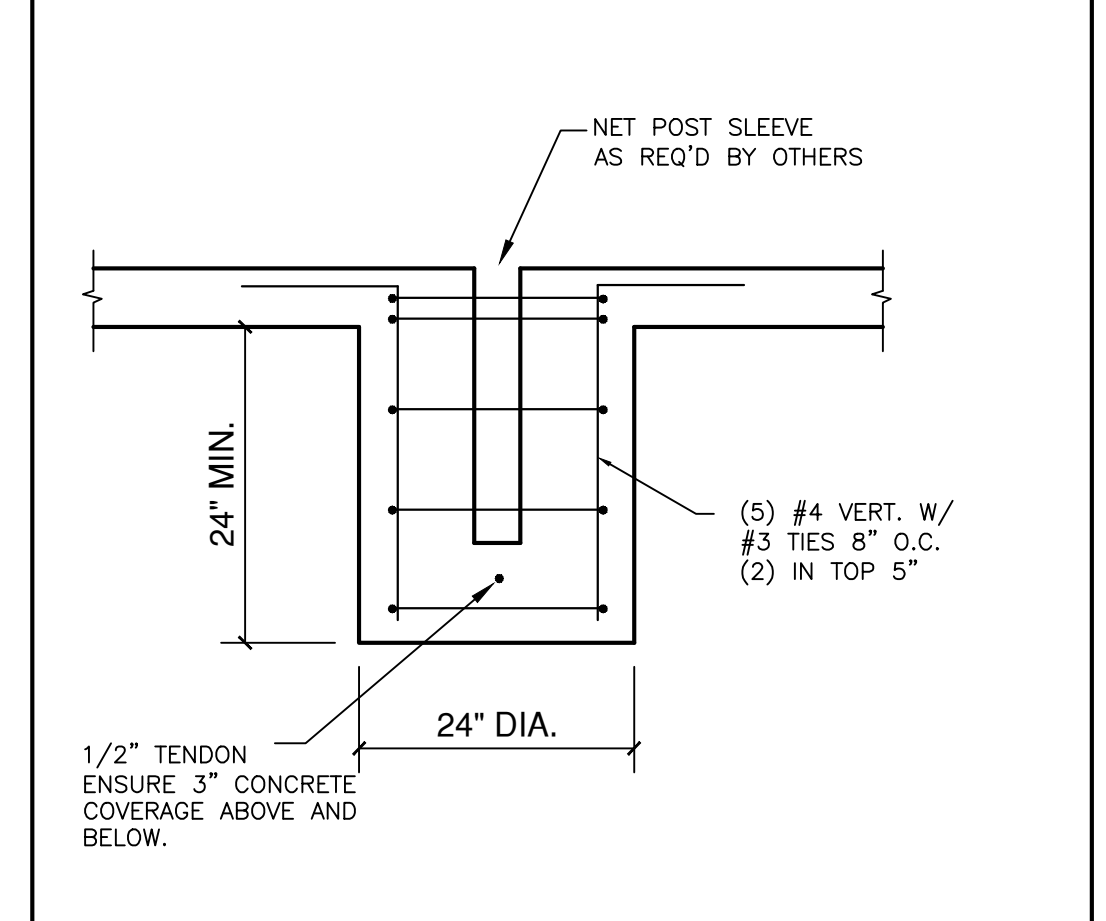
GEOTECHNICAL REPORT NOTE:
THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS CONTAINED WITHIN THE FOLLOWING GEOTECHNICAL REPORT. FAILURE TO DO SO RENDERS THIS FOUNDATION DESIGN INVALID AND SYNERGETIC ENGINEERING SHALL NOT BE HELD LIABLE FOR THIS ENGINEERING DESIGN.
GEOTECHNICAL REPORT
SIGNED BY: DARREL V. HOLMQUIST, P.E.
LICENSE # 44896



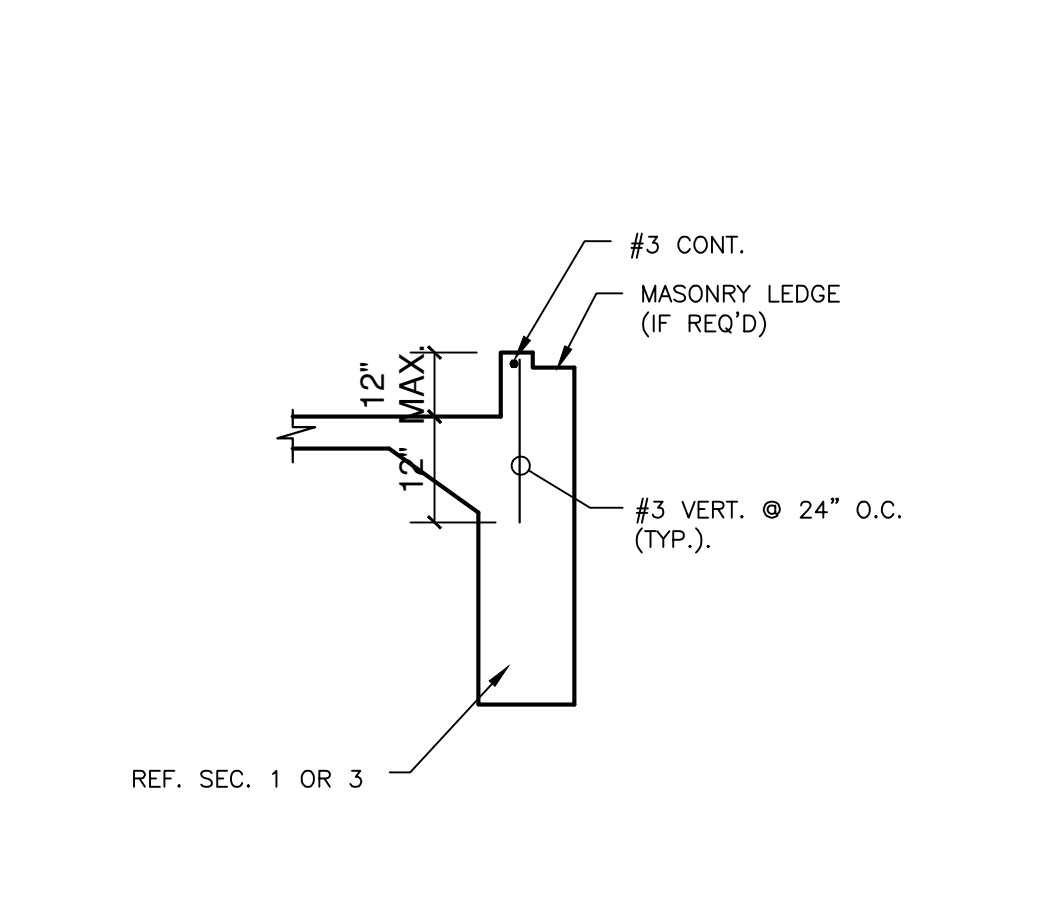
SECTION 1



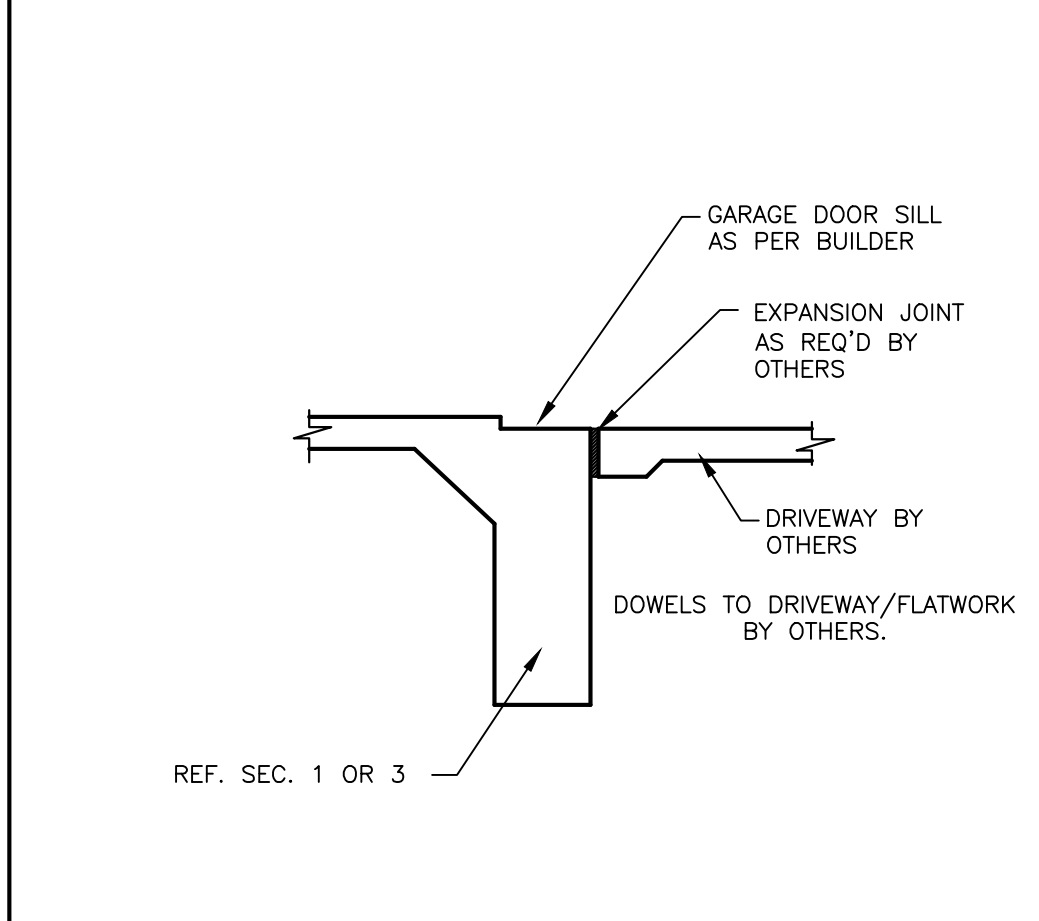
SECTION 2



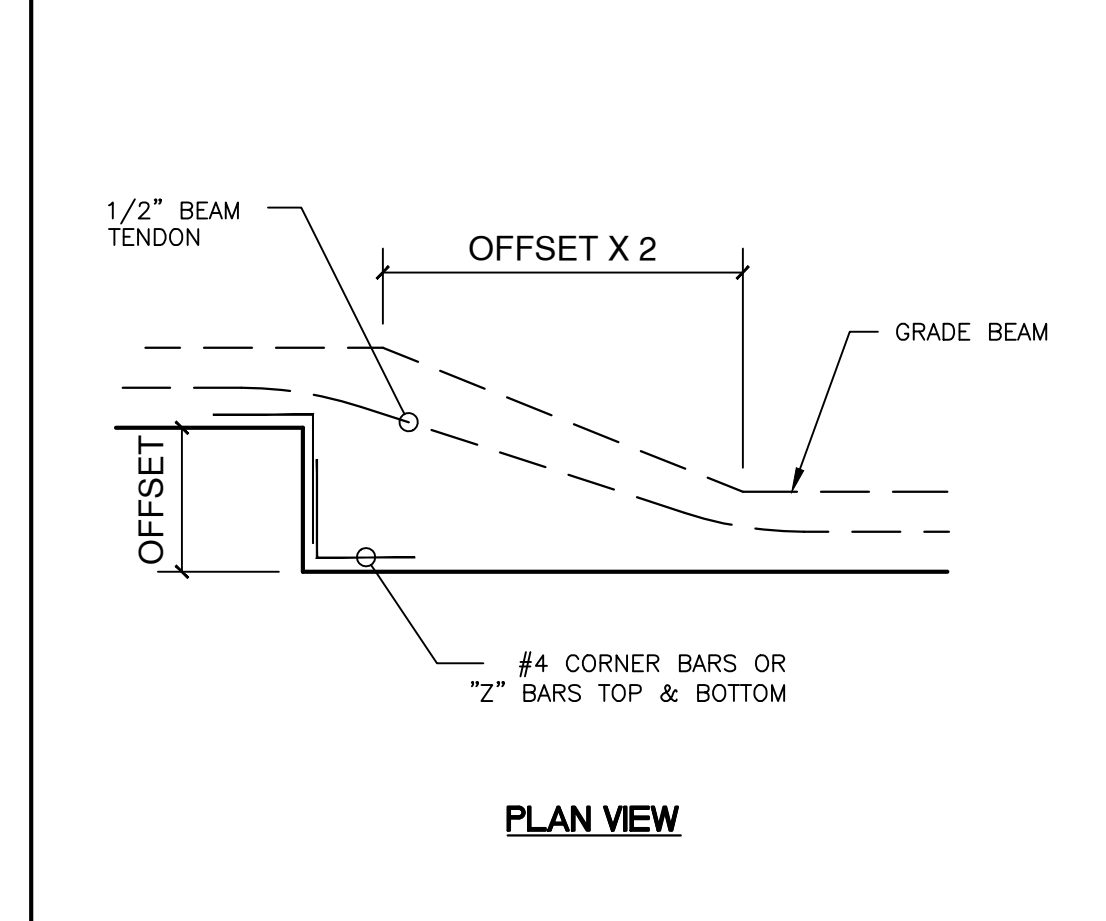
SECTION 3



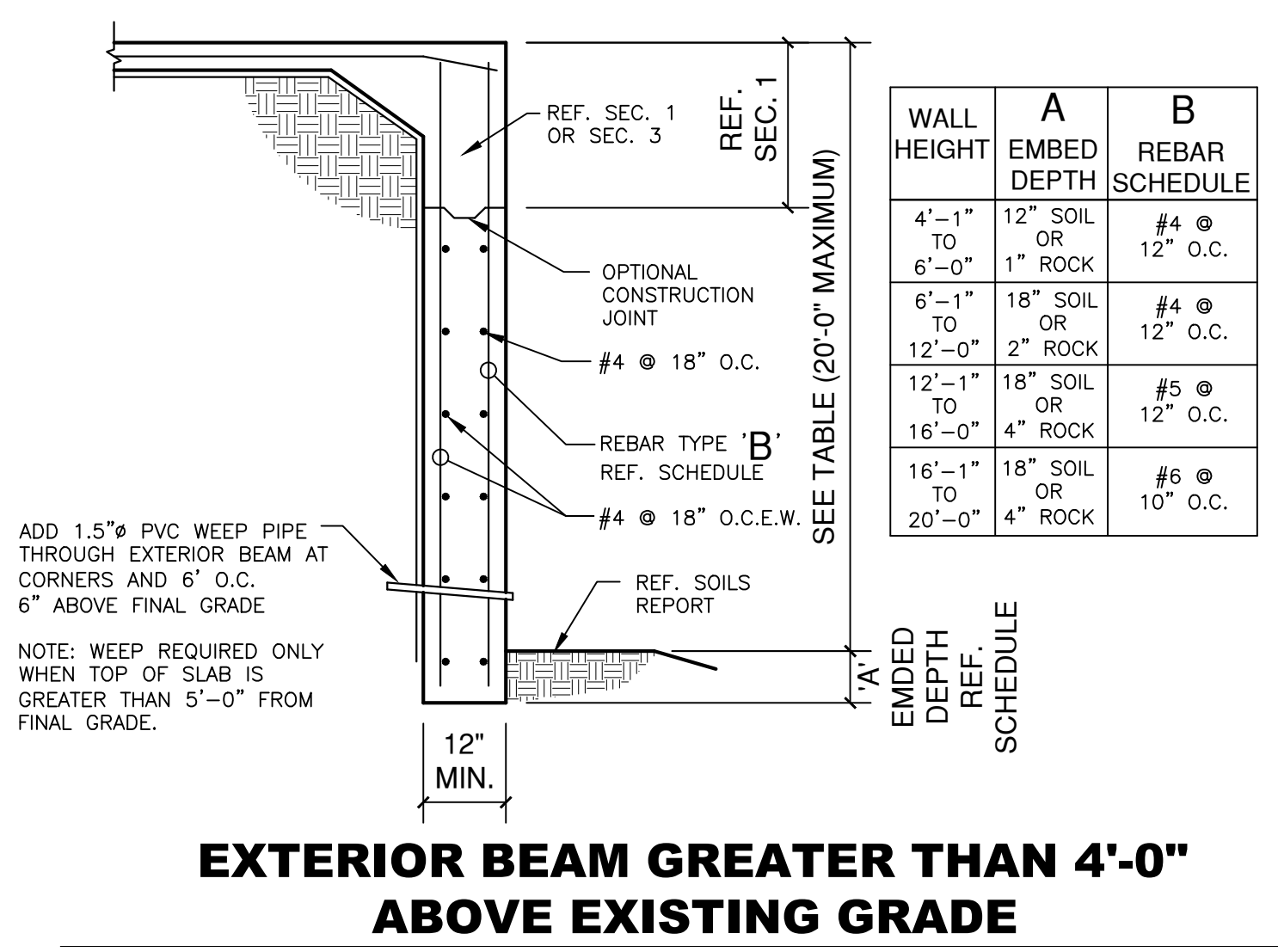
SECTION 4



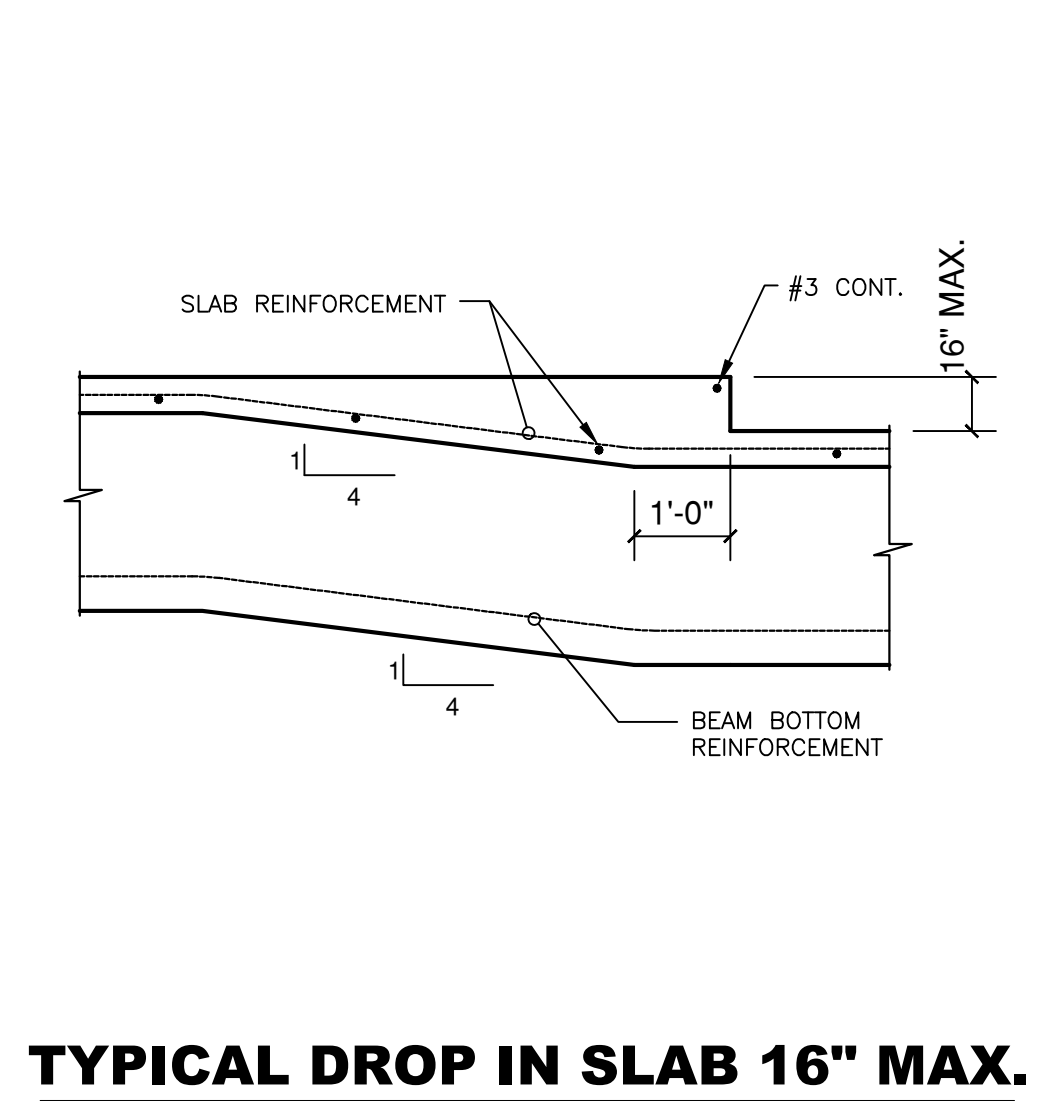
SECTION 5



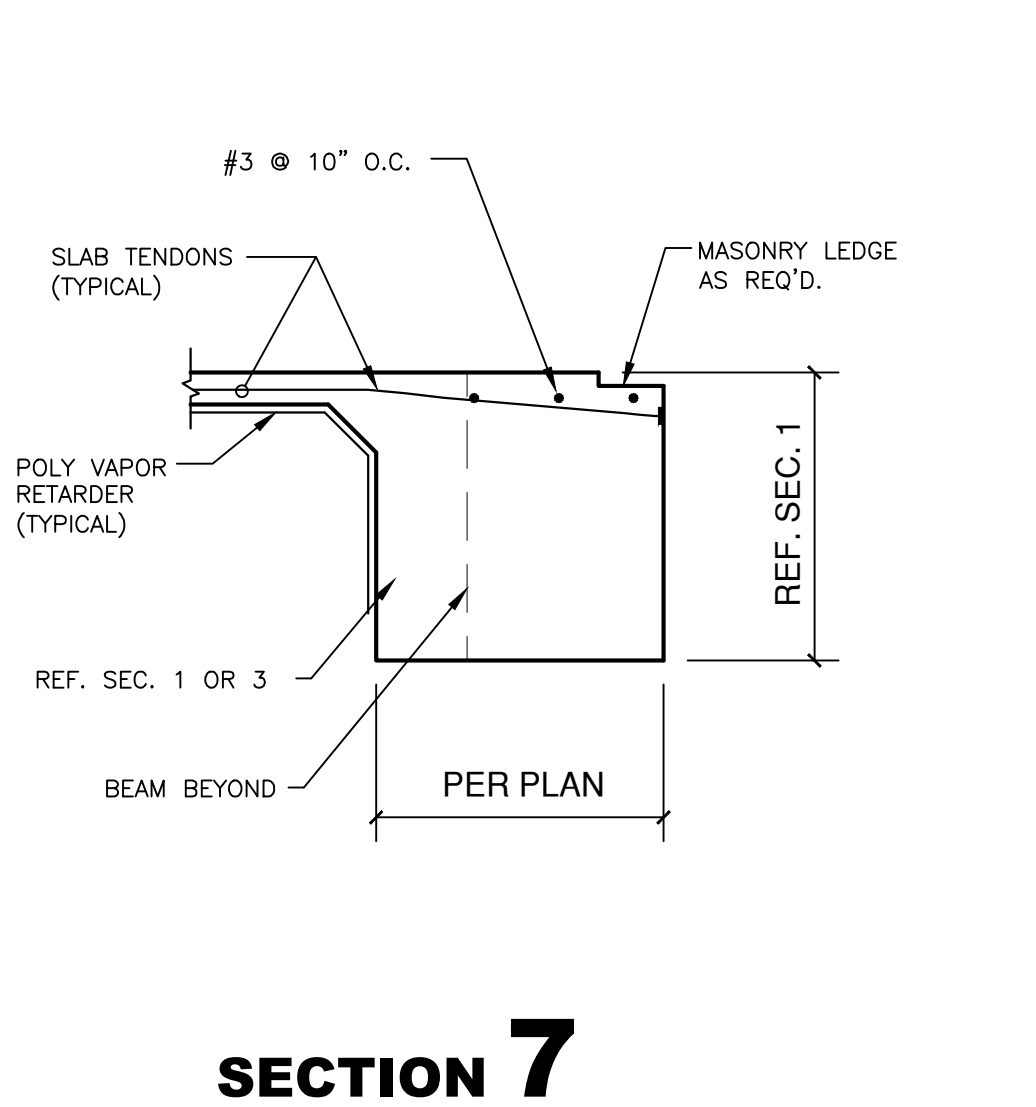
SECTION 6



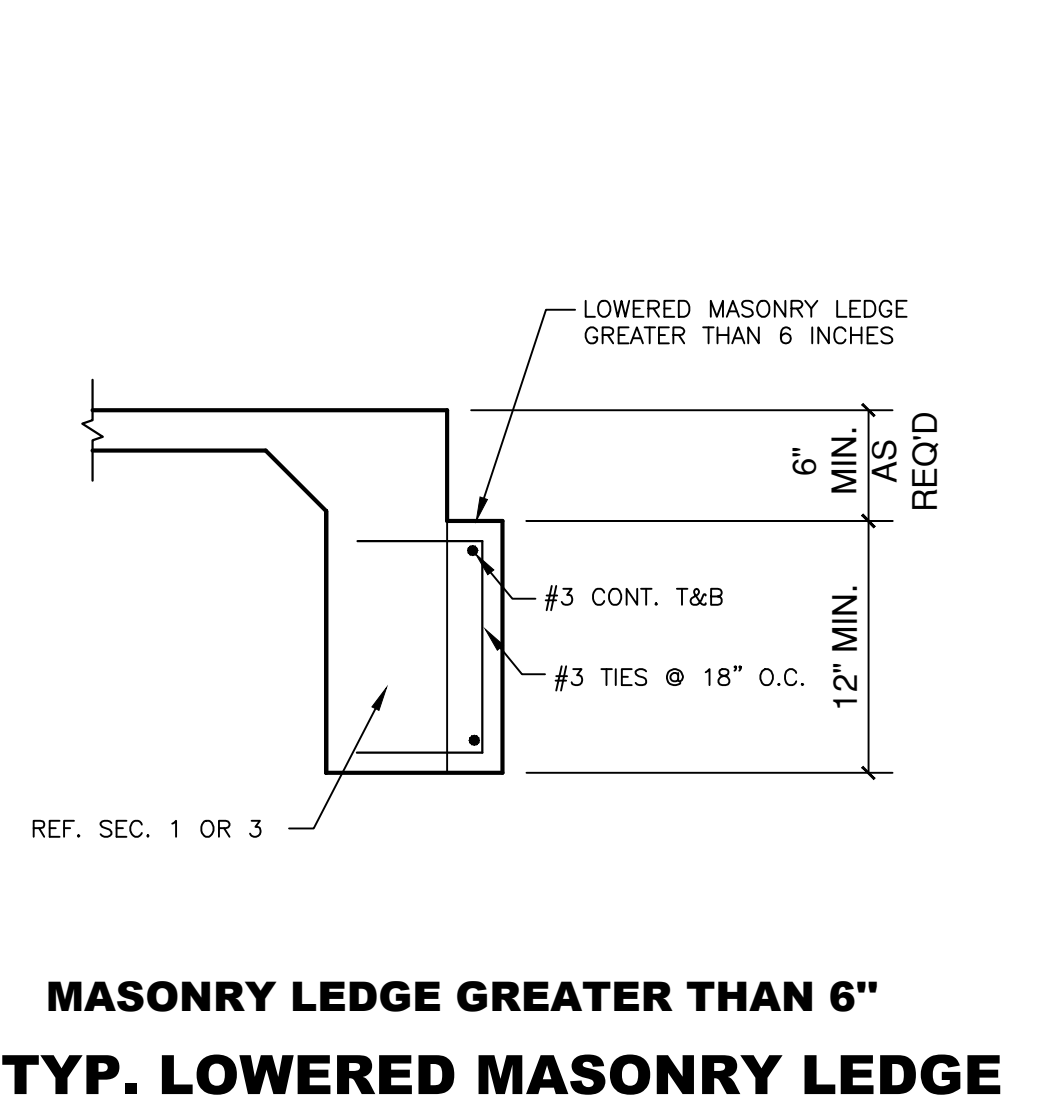
EXTERIOR BEAM GREATER THAN 4'-0" ABOVE EXISTING GRADE



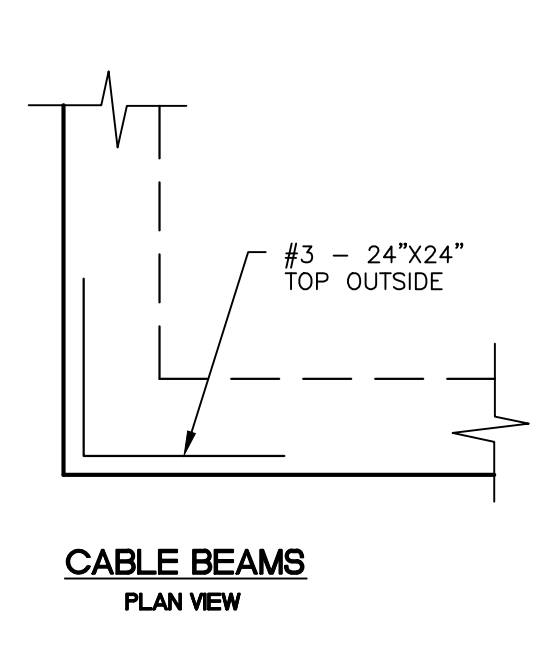
TYPICAL DROP IN SLAB 16" MAX.



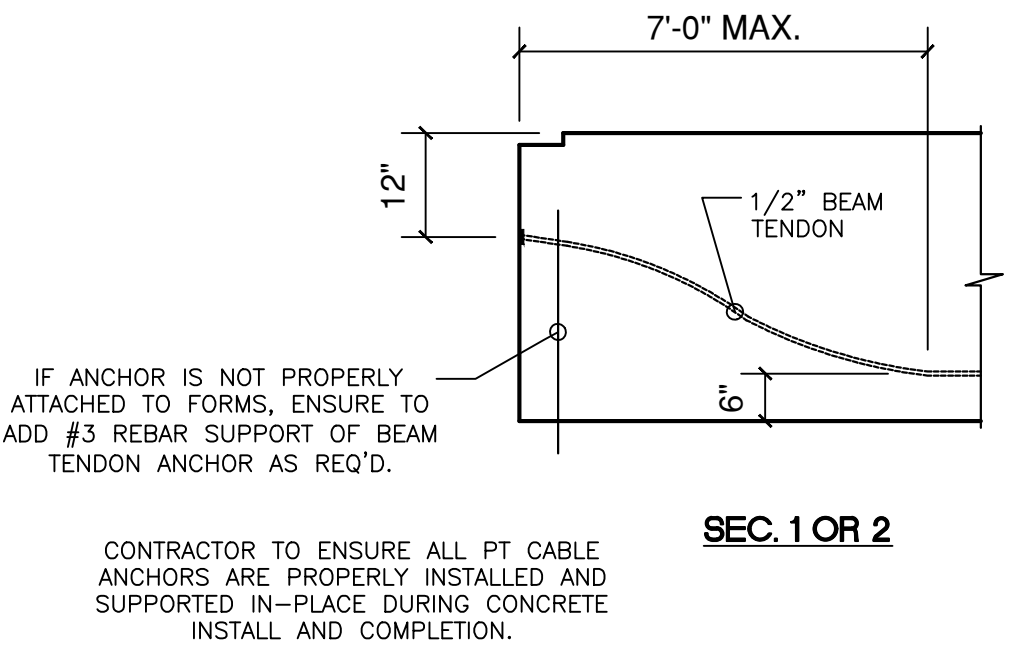
SECTION 7



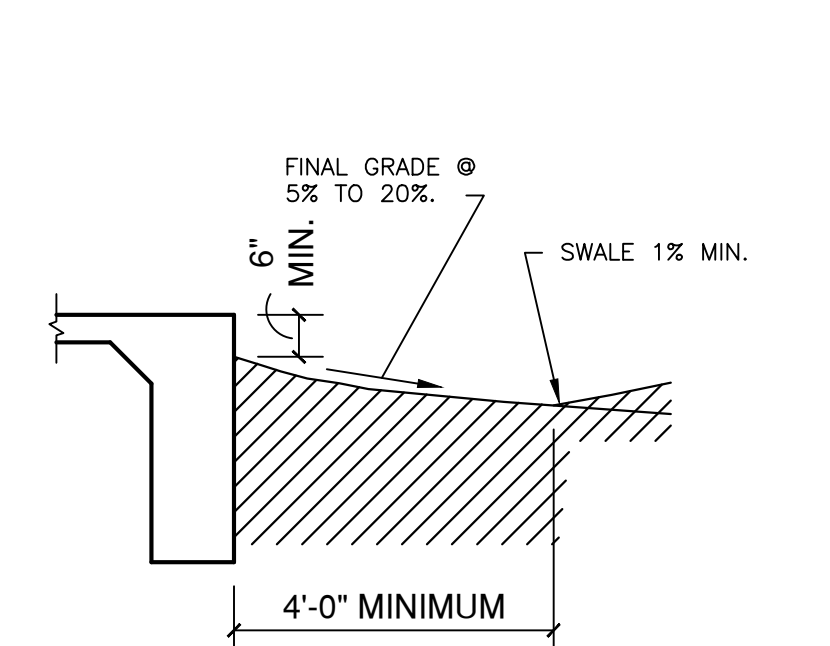
MASONRY LEDGE GREATER THAN 6" TYP. LOWERED MASONRY LEDGE



CORNER BAR DETAILS



TYPICAL GRADE BEAM ELEVATION



TYPICAL FINAL GRADE DETAIL

GENERAL:
 1. THE LATEST A.C.I. CODE HAVE BEEN USED IN ESTABLISHING THE DESIGN REQUIREMENTS FOR THIS FOUNDATION. FOUNDATIONS CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS WILL GENERALLY MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE AND STANDARDS OF GOOD ENGINEERING PRACTICE.
 2. DO NOT SCALE PLAN. CONTACT ENGINEER FOR CLARIFICATIONS.
 3. SHOULD CONDITIONS ARISE THAT ARE NOT COVERED BY DETAILS ON THIS PLAN, CONTACT ENGINEER AT ONCE FOR ADDITIONAL INSTRUCTIONS.
 4. VERIFY EXPOSED CONCRETE FINISHES THAT MAY BE REQUIRED AS PER ARCHITECTURALS. ENGINEER CANNOT BE HELD LIABLE FOR ANY OVERSIGHT IN THIS REGARD.
 5. SPOT FOOTINGS THAT ARE BUILT ON EXPANSIVE CLAYS HAVE POTENTIAL FOR NON-STRUCTURAL DIFFERENTIAL MOVEMENT.
 6. ENGINEER IS NOT RESPONSIBLE FOR ANY PLUMBING SYSTEMS. POSSIBLE SETTLEMENT OF NOMINALLY COMPACTED FORMING FILL CAN NATURALLY OCCUR.
 7. ENGINEER IS NOT RESPONSIBLE FOR WATER-PROOFING OF FOUNDATION ELEMENTS.
 8. ENSURE PROPER DRAINAGE OF FINAL GRADE AWAY FROM FOUNDATION AND DO NOT ALLOW FOR STANDING WATER NEXT TO FOUNDATION AFTER POURING SLAB AND THROUGH-OUT LIFE OF FOUNDATION. THIS DESIGN IS BASED ON PROPER POSITIVE SITE DRAINAGE AWAY FROM FOUNDATION AND CONSISTENT MOISTURE CONTENT OF SOIL AROUND FOUNDATION.

REFERENCE SOILS REPORT FOR UNDERSLAB FILL SPECIFICATIONS.

CONCRETE:
 1. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
 2. CONCRETE SHALL BE WELL CONSOLIDATED USING PROPER MECHANICAL VIBRATION.
 3. NO CONDUIT, PLUMBING, OR VENTS LARGER THAN 3" O.D. SHALL RUN IN GRADE BEAMS. CONDUIT, PIPING AND VENTS TO BE POSITIONED SO AS TO NOT REDUCE SLAB THICKNESS OR BEAM DIMENSIONS.
 4. MINIMUM CONCRETE COVERAGE:
 SLABS:
 3/4" ADJACENT TO INTERIOR SLAB SURFACES
 1 1/2" ABOVE SUB-GRADE
 GRADE BEAMS, WALLS AND FOOTINGS:
 1 1/2" ADJACENT TO EXTERIOR OR INTERIOR SURFACES
 3" FROM SURFACES IN CONTACT WITH EARTH
 5. TENDON ANCHORS TO HAVE 4" VERTICAL CONCRETE COVER FROM CENTER OF ANCHOR.

REINFORCEMENT:
 1. REINFORCING STEEL TO BE GRADE 60 FOR #4 AND LARGER AND GRADE 40 FOR #3.
 2. ALL TENDONS SHALL BE 270K GRADE, 7 WIRE STRAND, 1/2" IN. DIAMETER (UNLESS NOTED OTHERWISE), GREASED AND SHEATHED WITH A CONTINUOUS SHEATHING. FULL STRESSING LOAD ON 1/2" TENDON SHALL BE 33K.
 3. ALL TENDONS SHALL BE A MONOSTRAND UNBONDED TENDON ANCHORAGE UTILIZING A CAST WEDGE PLATE AND A TWO PIECE WEDGE AS MANUFACTURED BY A P.T.I. APPROVED MANUFACTURER.
 4. FULL STRESSING OF CABLES TO OCCUR BETWEEN 7 TO 10 DAYS AFTER CONCRETE PLACEMENT.
 5. AT DISCONTINUOUS STEEL ENDS, ADD CORNER BARS EQUAL TO CONT. HORIZ. STEEL SIZE WITH 30 BAR DIAMETER LEGS (24" MIN).
 6. ADD #3 (24"x24") OUTSIDE CORNERS TOP FOR GRADE BEAMS REINFORCED WITH CABLES.

SOILS INFO:
 SOILS DATA BY: CTL THOMPSON
 SOILS DATA DATE: APRIL 23, 2008

EM CENTER = 5.0 FEET
 EM EDGE = 4.5 FEET
 YM CENTER = 1.7 INCHES
 YM EDGE = 2.0 INCHES

GENERAL NOTES

SYNERGETIC ENGINEERING
FOUNDATION ENGINEER
(833)SLAB-NOW
3 DAY DESIGN INC.
 QR CODE

STATE OF TEXAS
PATRICK JAY BARLATURA
 90279
LICENSED PROFESSIONAL ENGINEER
 01-05-26

NEW CONSTRUCTION - SPORT COURT
2805 RR 2341
BURNET, TEXAS
 JOB # 260005

REV	01-05-26
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FOUNDATION DETAILS & NOTES

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S2