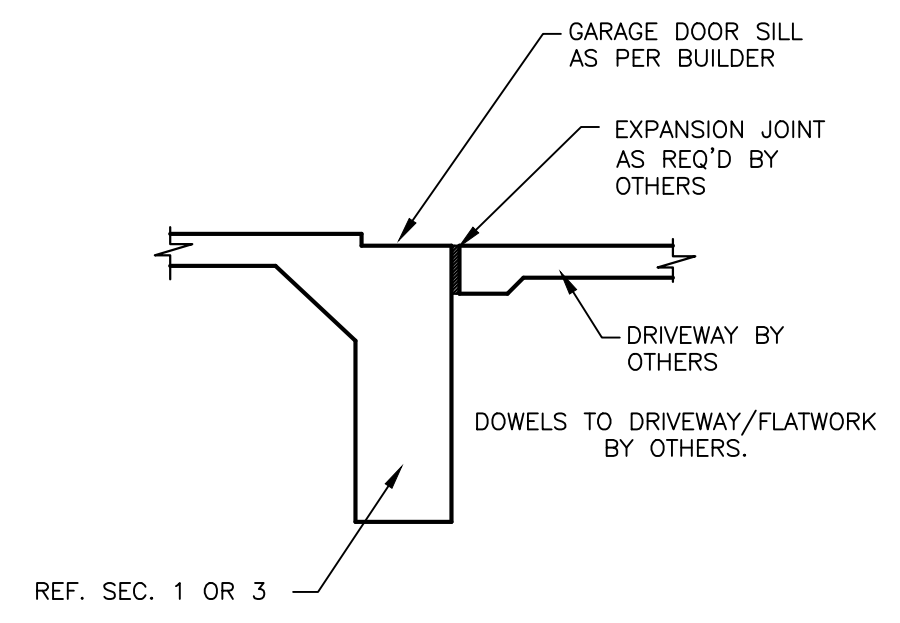
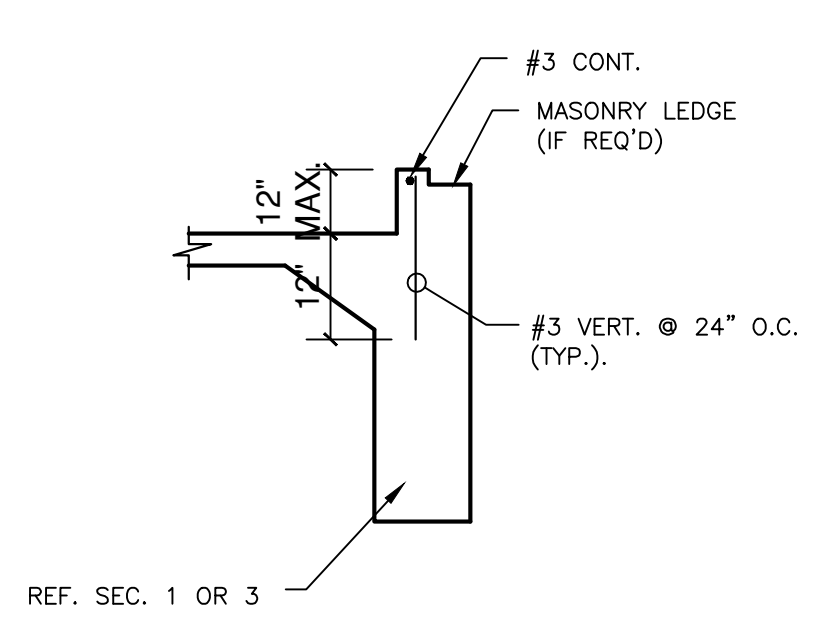


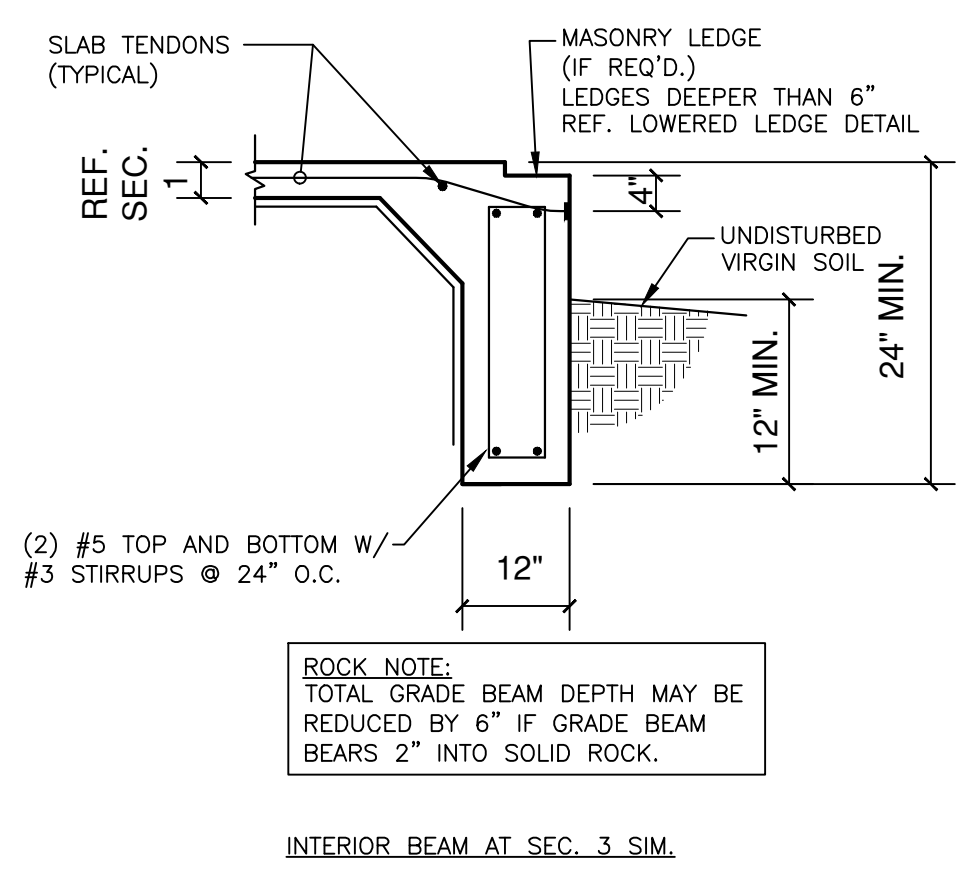
**SECTION 6**



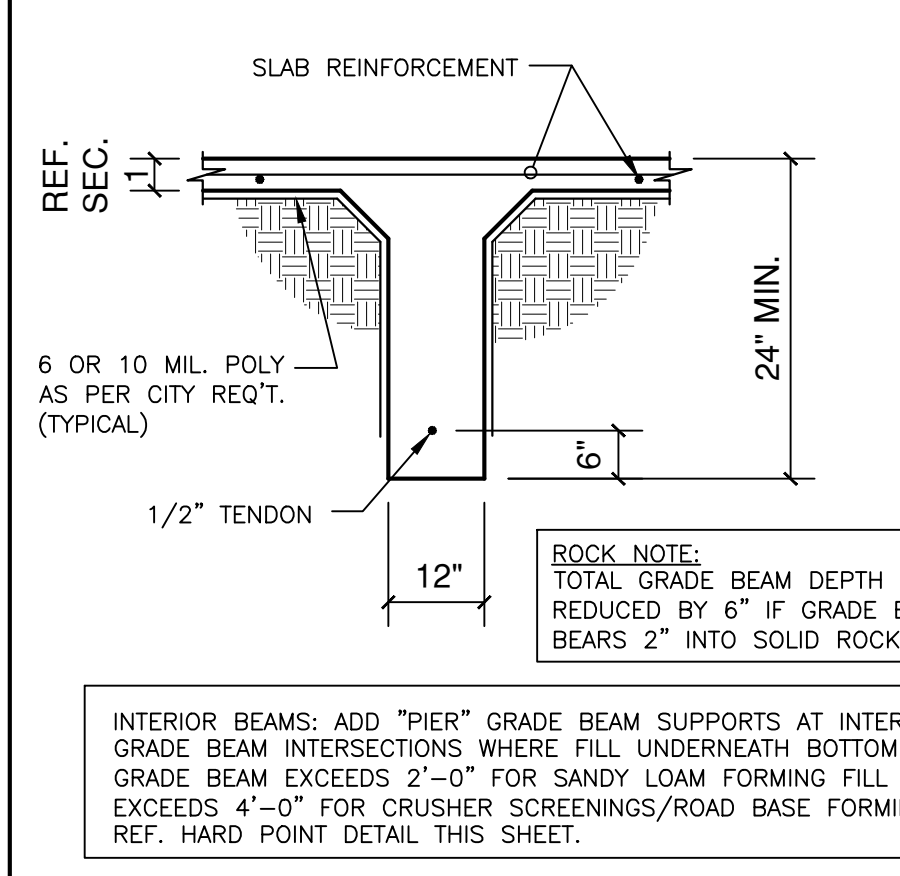
**SECTION 5**



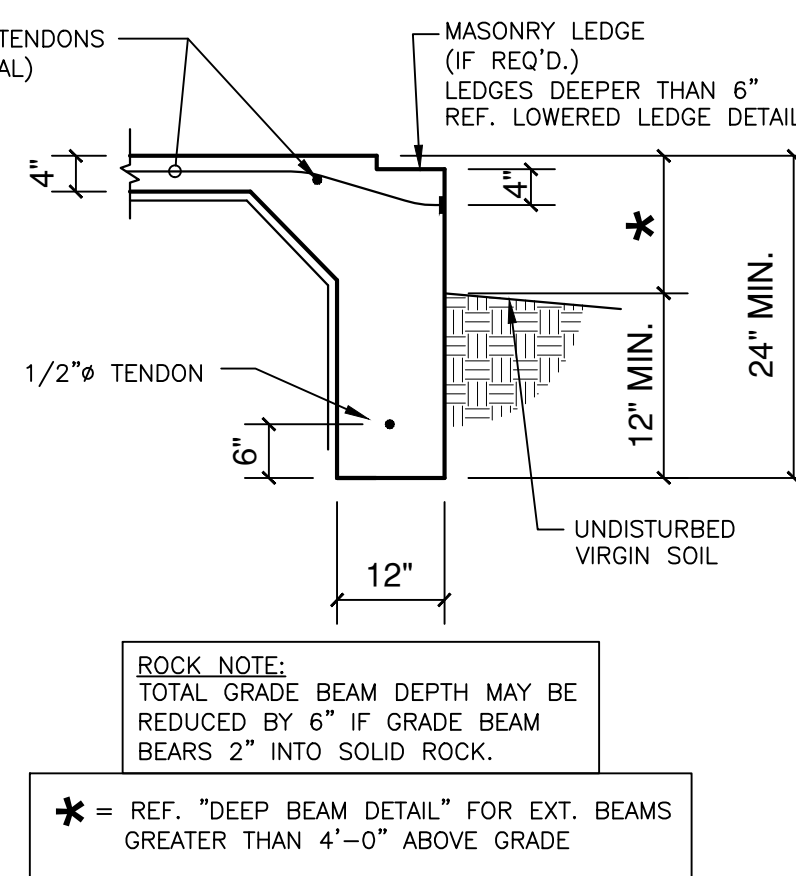
**SECTION 4**



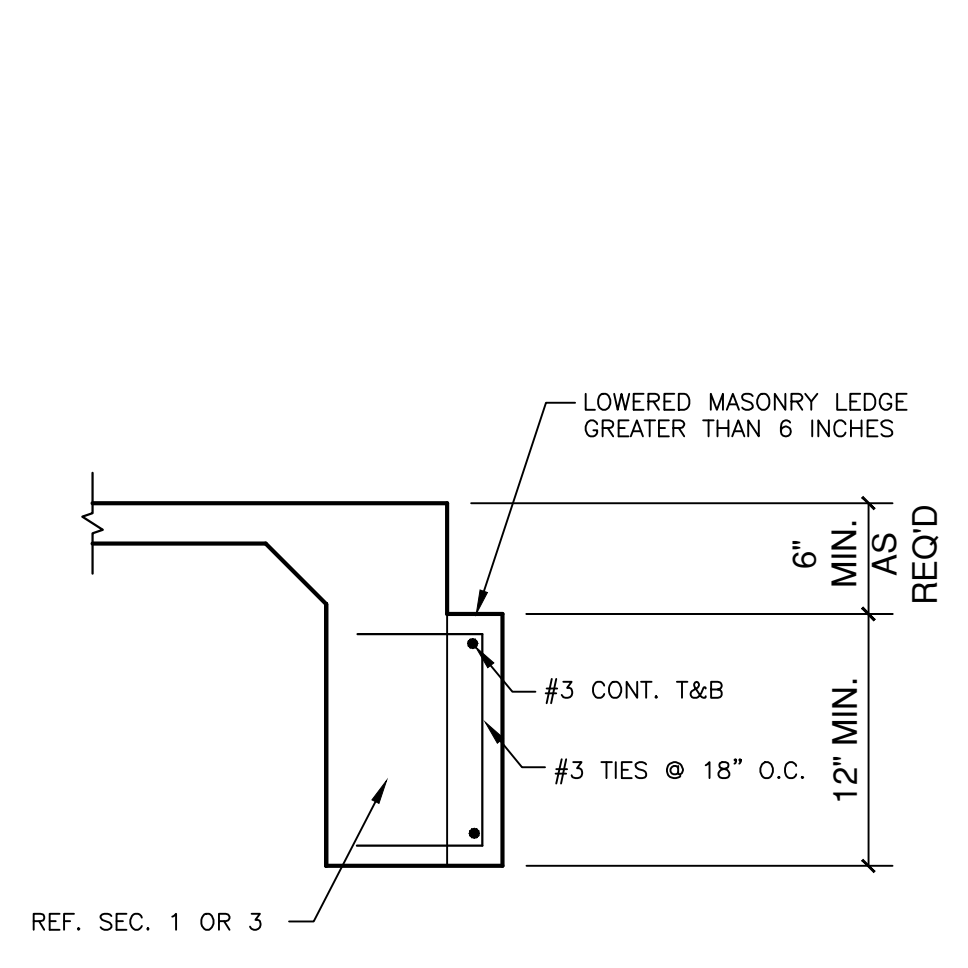
**SECTION 3**



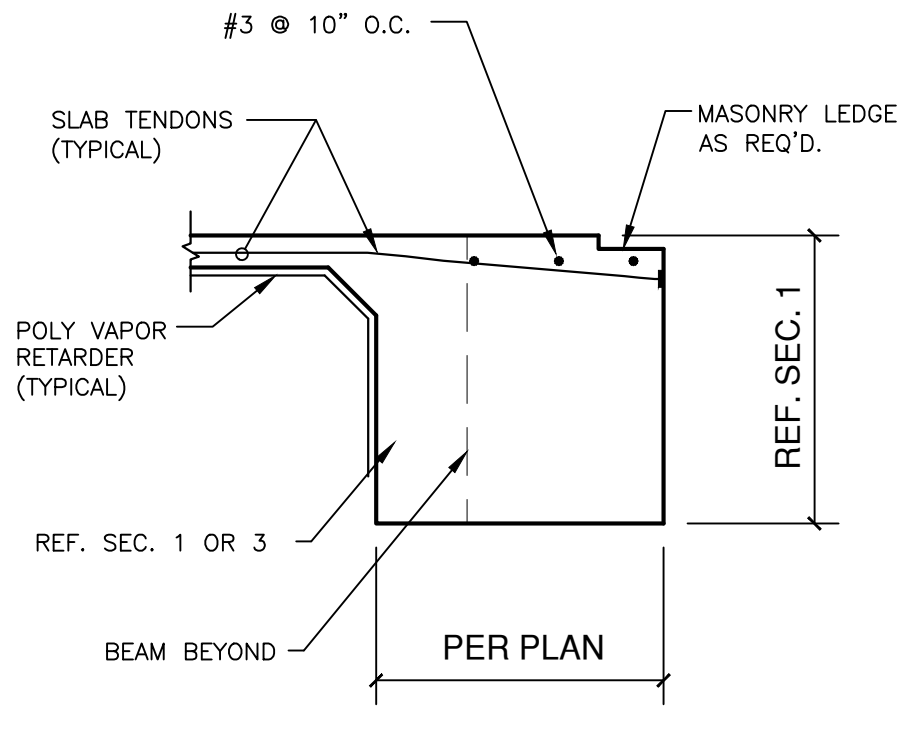
**SECTION 2**



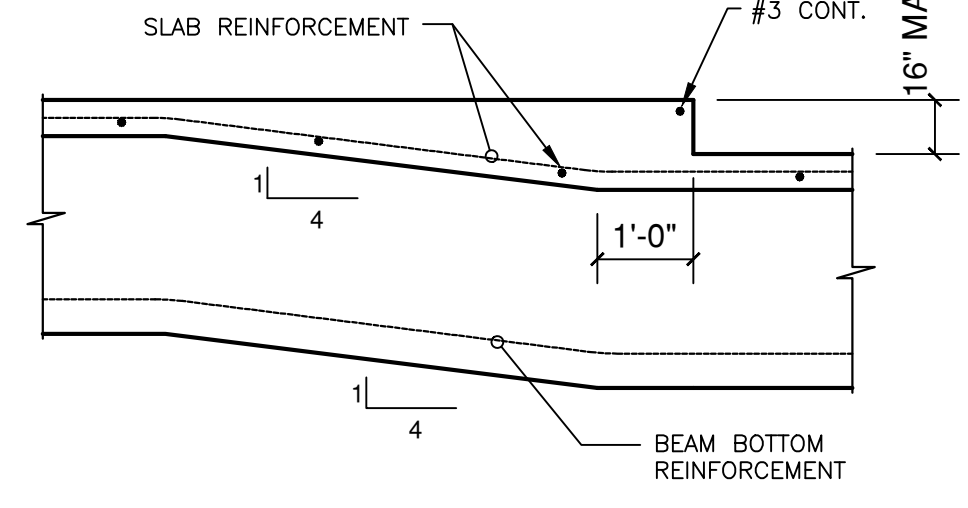
**SECTION 1**



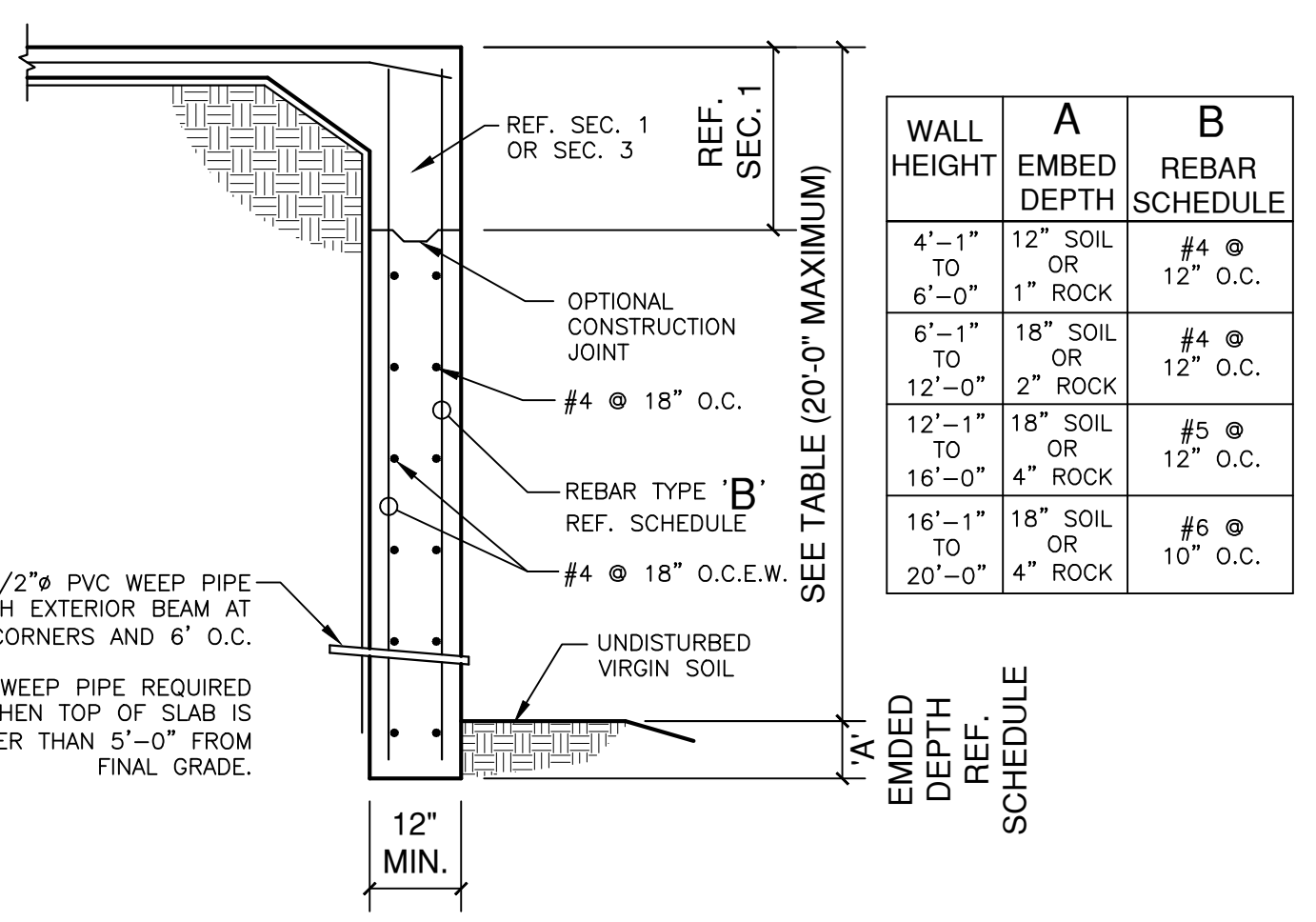
**MASONRY LEDGE GREATER THAN 6" TYP. LOWERED MASONRY LEDGE**



**SECTION 7**



**TYPICAL DROP IN SLAB 16" MAX.**



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

WALL HEIGHT	A EMBED DEPTH	B REBAR SCHEDULE
4'-1" TO 6'-0"	12" SOIL OR 1" ROCK	#4 @ 12" O.C.
6'-1" TO 12'-0"	18" SOIL OR 2" ROCK	#4 @ 12" O.C.
12'-1" TO 16'-0"	18" SOIL OR 4" ROCK	#5 @ 12" O.C.
16'-1" TO 20'-0"	18" SOIL OR 4" ROCK	#6 @ 10" O.C.

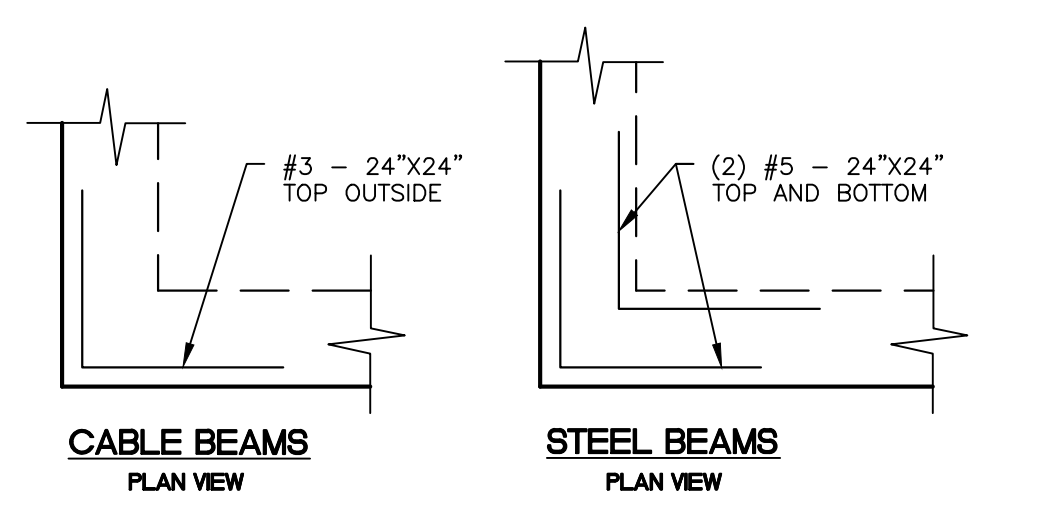
**GENERAL:**  
 1. THE LATEST A.C.I. CODE HAVE BEEN USED IN ESTABLISHING THE DESIGN REQUIREMENTS FOR THIS FOUNDATION. FOUNDATIONS CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS WILL GENERALLY MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE AND STANDARDS 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.

**FORMING FILL**  
 1. UNDERSLAB FORMING FILL MATERIAL SHALL HAVE A P.I. LESS THAN 20 AND BE FREE OF ORGANICS.  
 2. FORMING FILL TO BE NOMINALLY COMPACTED.

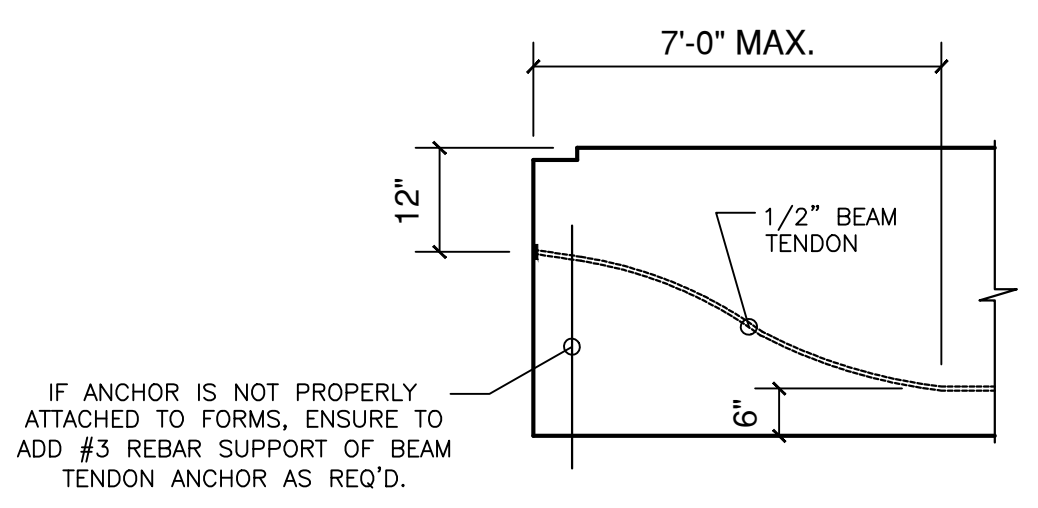
**CONCRETE:**  
 1. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.  
 2. CONCRETE SHALL BE WELL CONSOLIDATED USING PROPER MECHANICAL VIBRATION.  
 3. NO CONDUIT, PLUMBING, OR VENTS LARGER THAN 3" O.D. SHALL RUN IN GRADE BEAMS. CONDUIT, PIPING AND VENTS TO BE POSITIONED SO AS TO NOT 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.

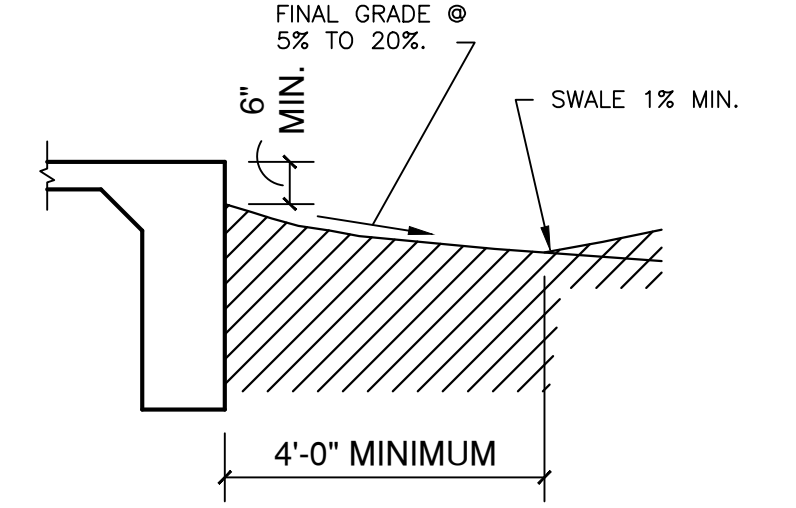
**GENERAL NOTES**



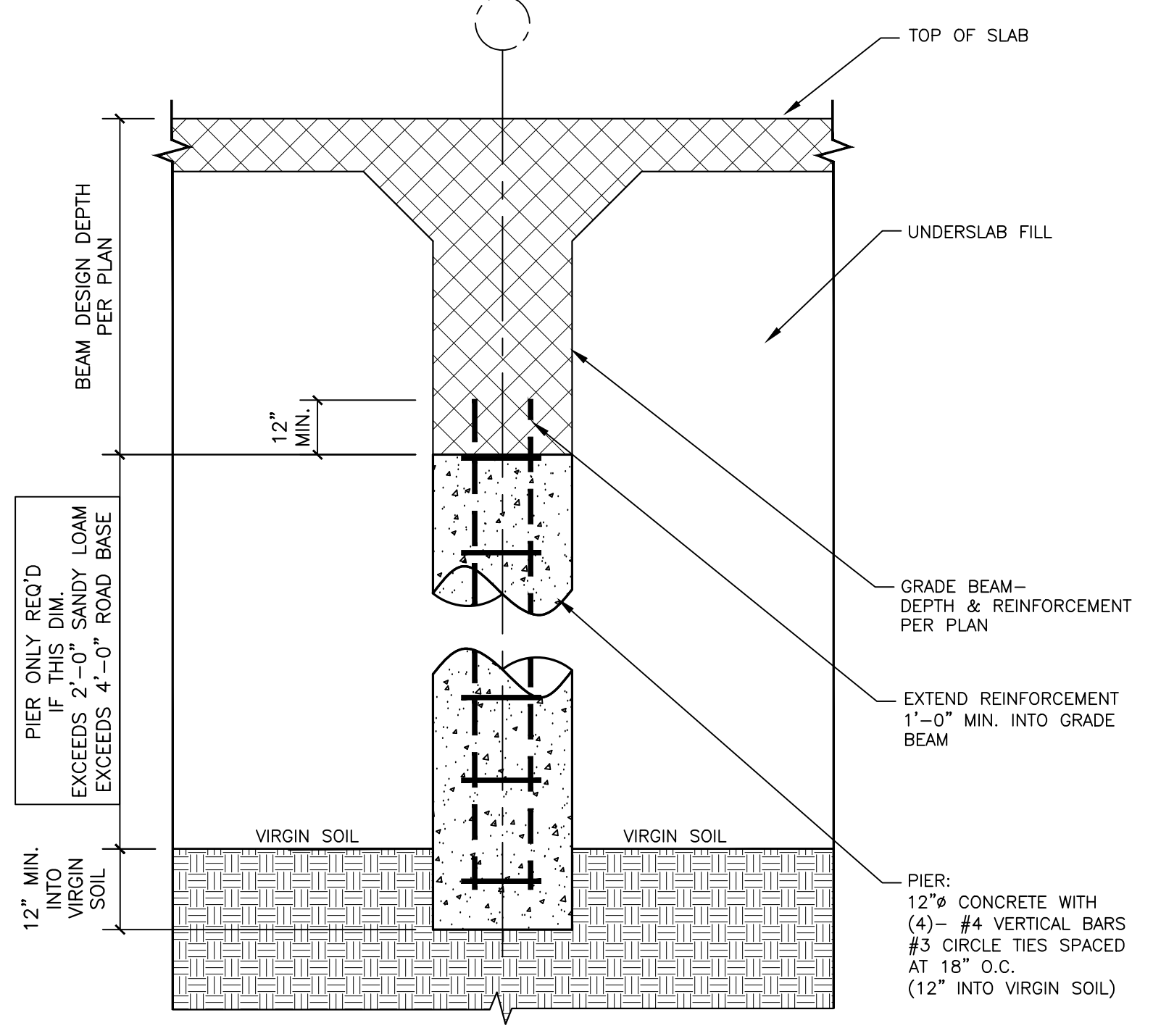
**CORNER BAR DETAILS**



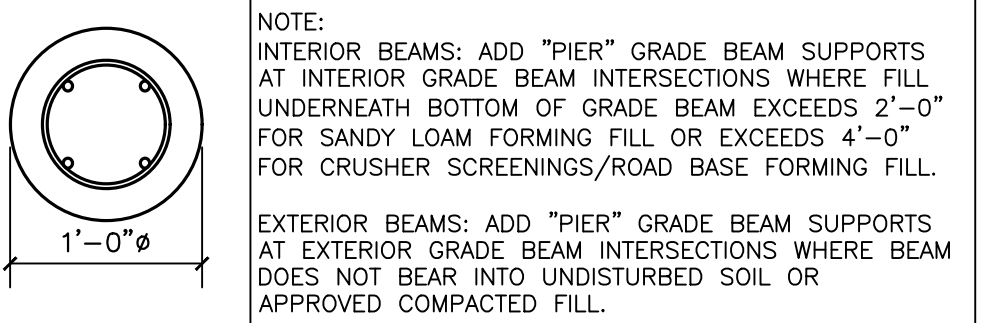
**TYPICAL GRADE BEAM ELEVATION**



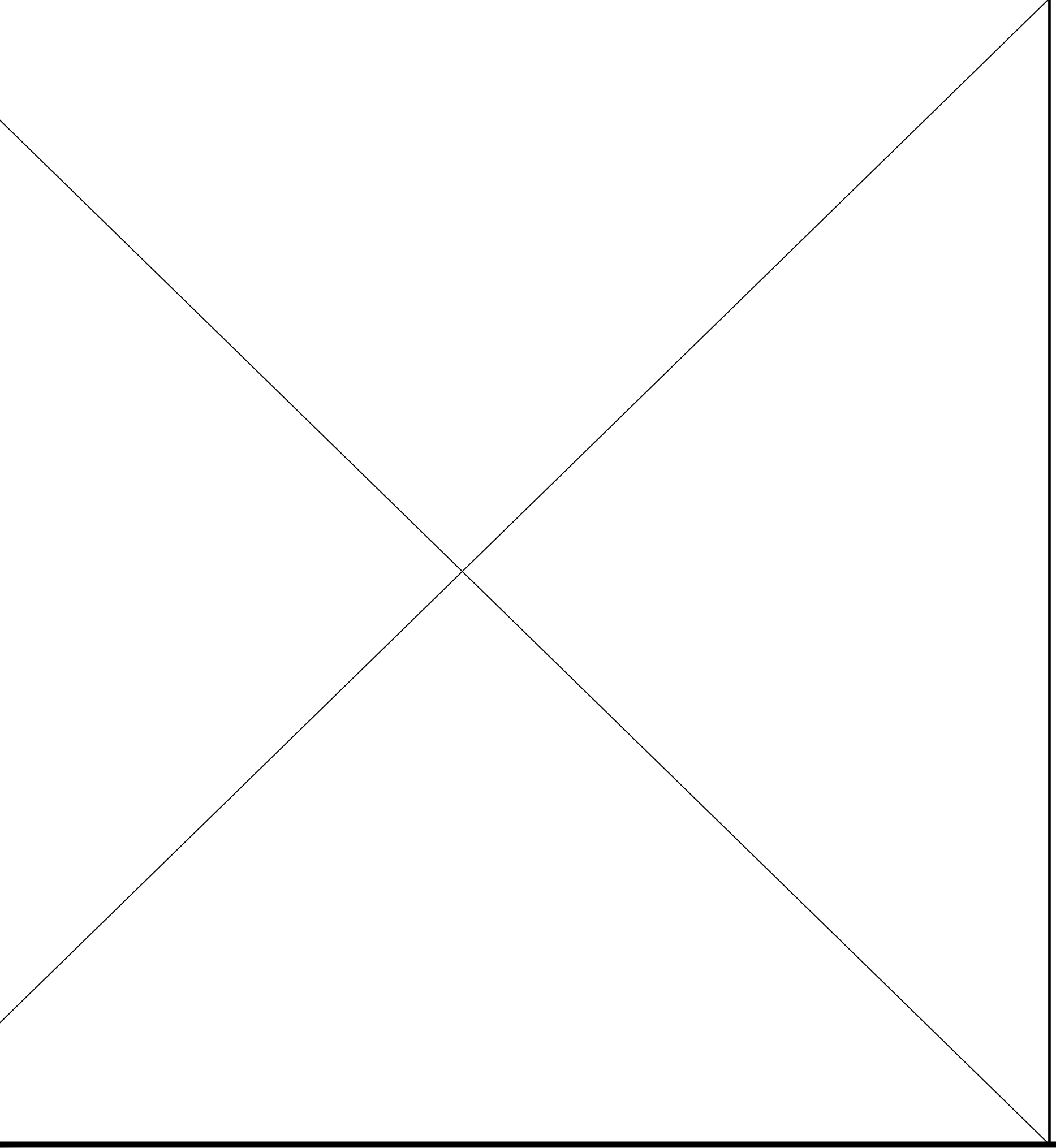
**TYPICAL FINAL GRADE DETAIL**



**HARDPOINT/PIER DETAIL**



**PIER DETAIL**





**Date:**            XX-XX-XX

**Project:**        **SAMPLE CABLE / PT FOUNDATION PLAN**  
                  **Address**  
                  **City, Texas**

**Subject:**        **ENGINEER'S FOUNDATION PREPOUR COMPLIANCE LETTER-    *APPROVED***

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**Remarks:**     This letter represents the findings of the Licensed Professional Engineer and is furnished as an aid in determining the physical condition, general compliance of the above referenced premises, and reported aspects thereof as deemed reasonably obtained from an evaluation and assessment of the information available pertaining to the subject in question. These items considered in this analysis include, but are not limited to:

- Slab/grade beam/footing layouts & reinforcement & poly vapor barrier
- Hardpoint/pier locations & depths verified by contractor
- Contractor shall verify all dimensions, required grade beam penetrations into virgin soil, slab pad material, and additional associated specifications of the structural plans.
- Contractor responsible for maintain a 4 inch minimum thick slab and adhering to Geotechnical Report recommendations if a report has been generated for the project.
- Rebar Dowels (if applicable) contractor shall verify epoxy connection has been installed in compliance with all procedures noted on the Foundation Details Sheet.
- Contractor responsible for installing adequate water proofing system behind slab drops and retaining walls as shown on foundation detail sheet.

The foundation design meets or exceeds all applicable IRC/IBC requirements as well as accepted local & construction practices in the state of Texas. Failure to install the concrete foundation items associated with this letter within 2 weeks of the date of this letter and/or after a significant rain event shall render this certification void and require a new inspection/certification. Our scope of work is strictly limited to the items listed in the project plans generated by Synergetic Engineering as well as any engineer approved revisions as required per onsite conditions or client/contractor requests. Any additional items installed not included in the foundation plans issued by Synergetic Engineering are outside the scope of our responsibility and not certified by this letter. The proposed foundation for the address listed above has been prepared in accordance with the governing structural engineering plans as limited above.

Sincerely,

**Pat Sablatura, P.E**  
Professional Structural Engineer  
Registration # 90279

