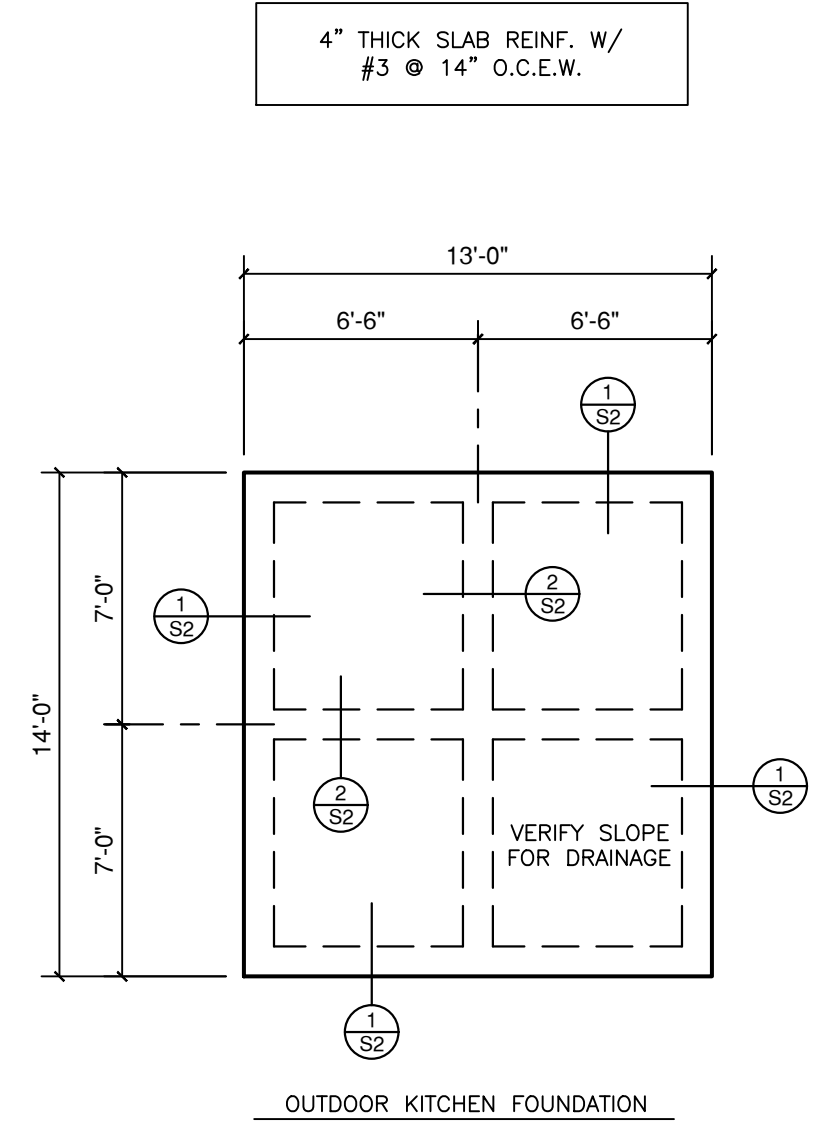


THIS DESIGN REQUIRES ALL EXISTING UNAPPROVED FILL TO BE REMOVED PRIOR TO CONSTRUCTION OF FOUNDATION. FAILURE TO PROVIDE ENGINEER OF RECORD WITH A LETTER FROM THE GEOTECH. ENGINEER CONFIRMING ALL UNAPPROVED FILL HAS BEEN REMOVED, RENDERS THESE PLANS NULL AND VOID.

**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 #23-5799  
 SIGNED BY: JORDAN M. REY, P.E.  
 LICENSE # 117211  
 FIRM # F-16403

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.

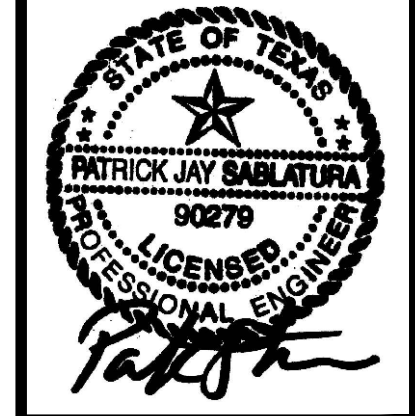
**MAXIMUM DROP IN SLAB NOTE:**  
 = REF. 8" MAX. TYP. DROP IN SLAB DETAIL, CONTACT ENGINEER FOR RE-DESIGN IF SLAB DROP IS MORE THAN 8"



FOUNDATION ENGINEER

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04-16-23

NEW CONSTRUCTION  
 4816 PECAN CHASE - SPANISH OAKS  
 BEE CAVE, TEXAS

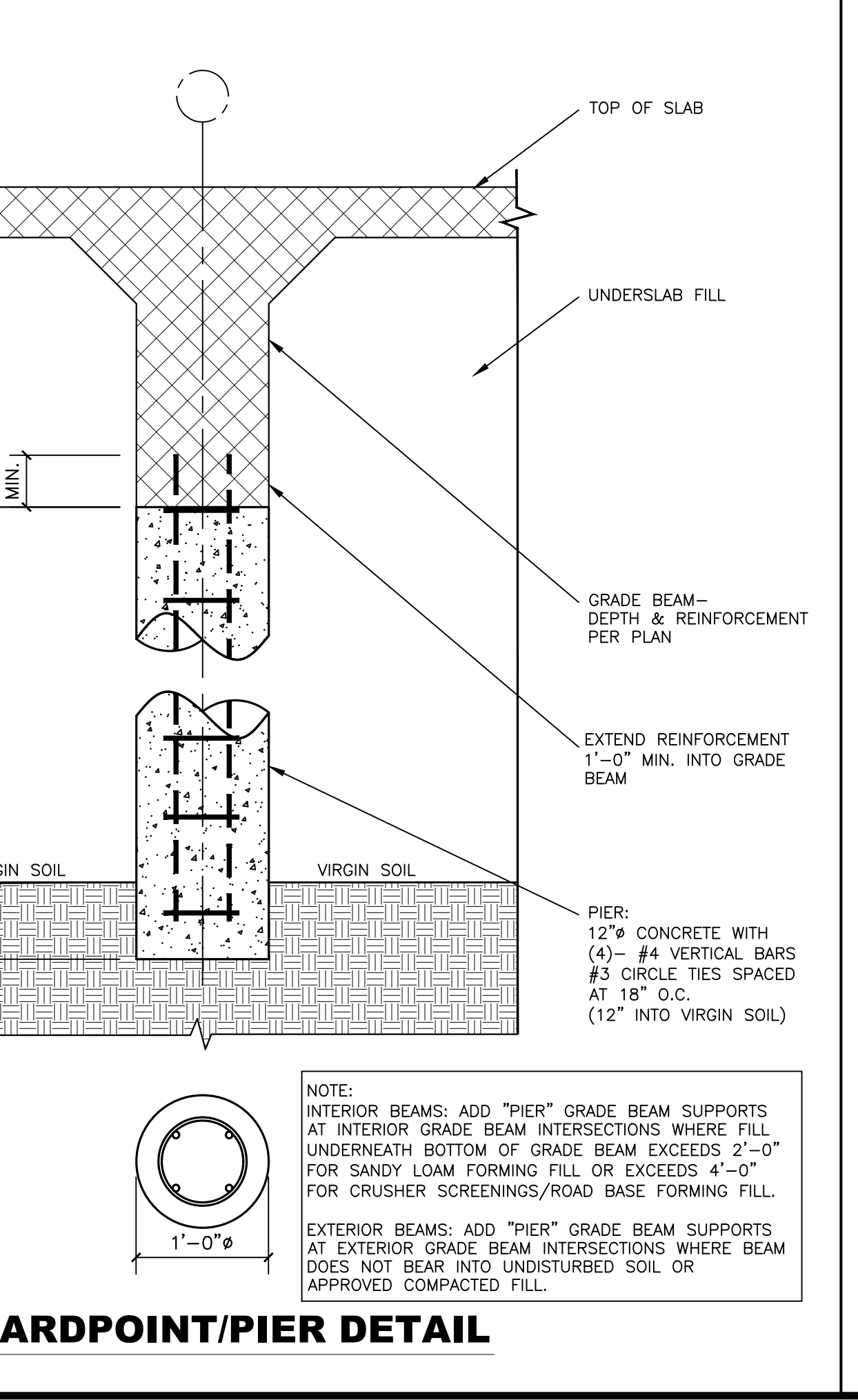
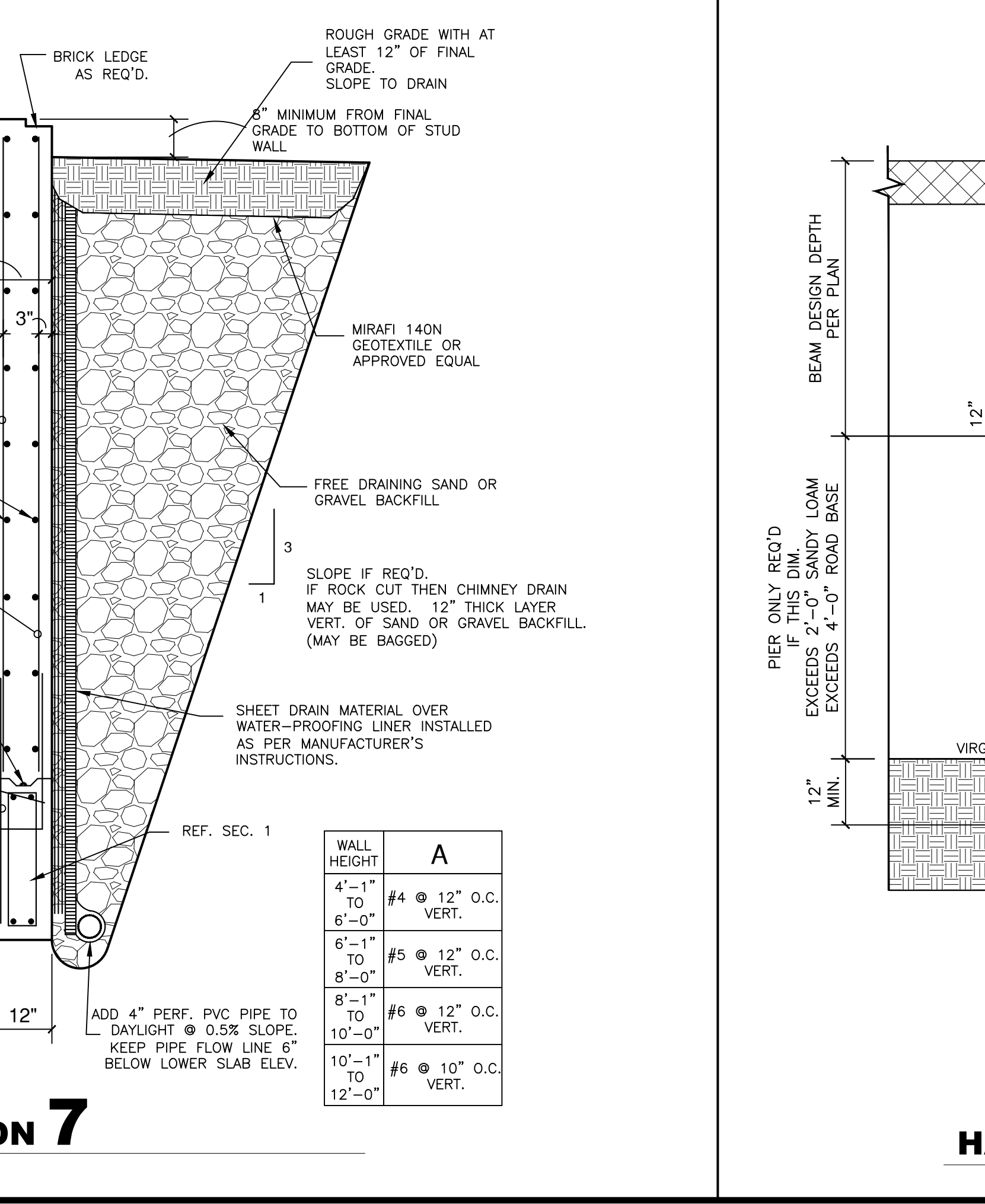
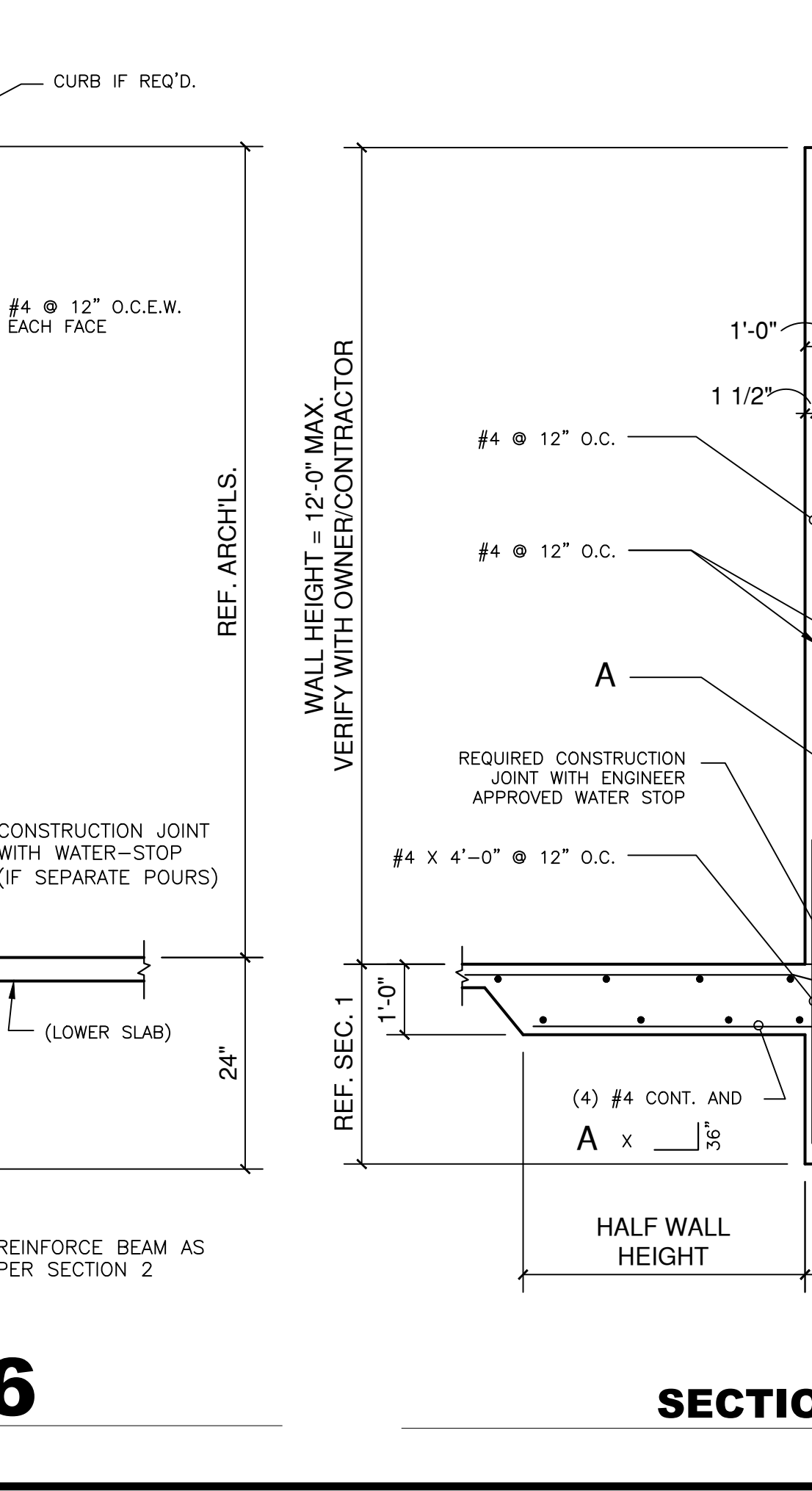
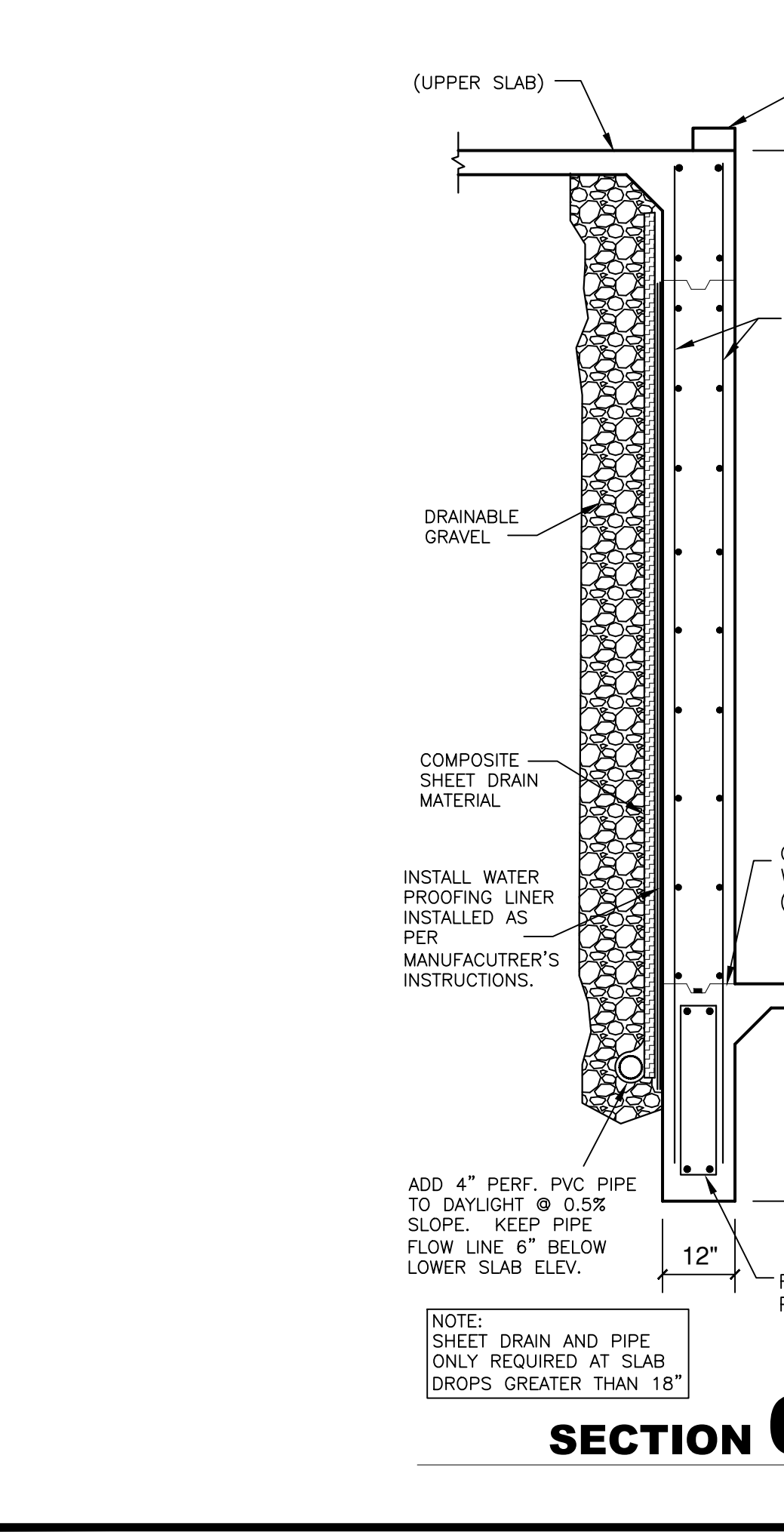
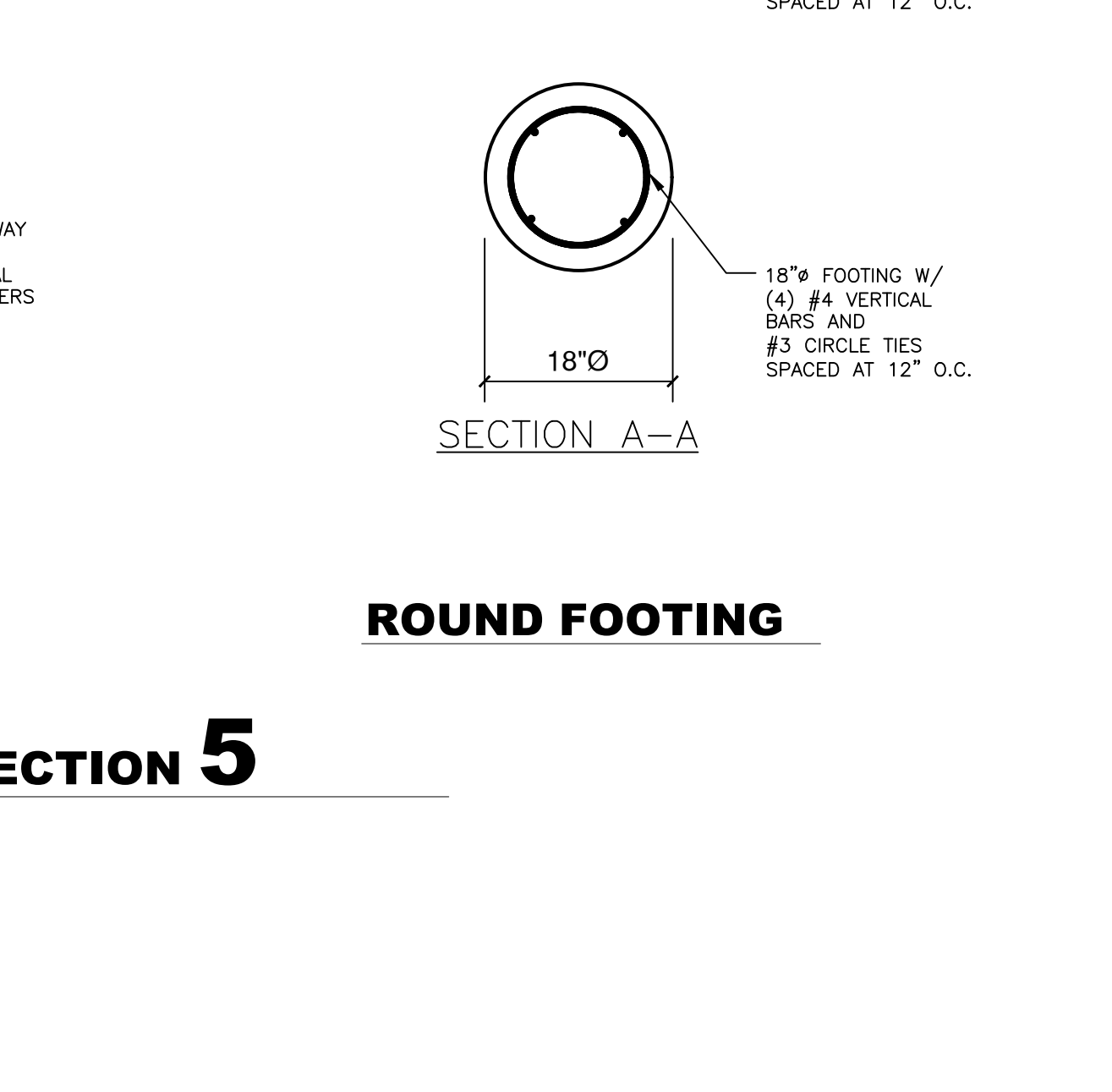
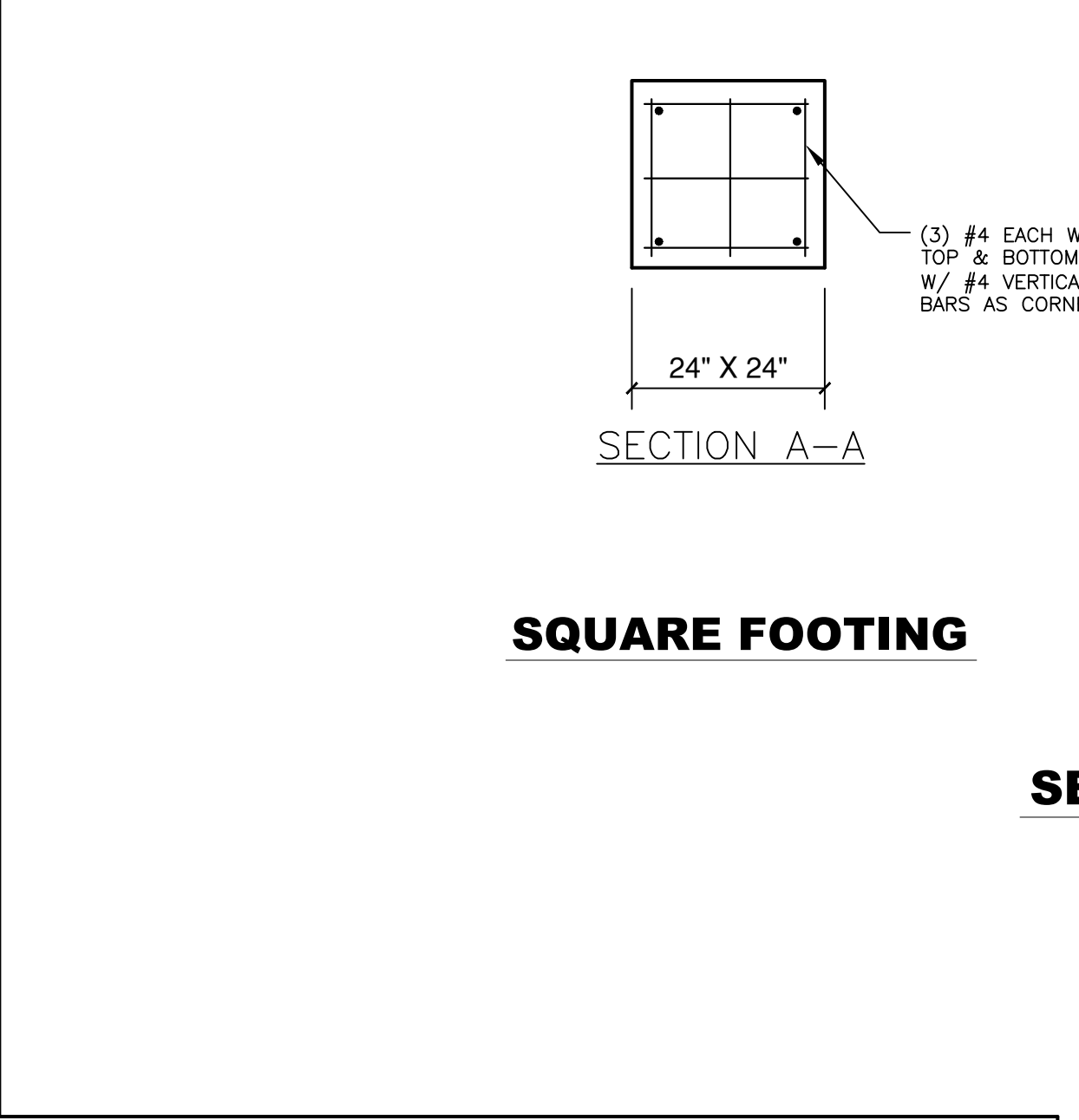
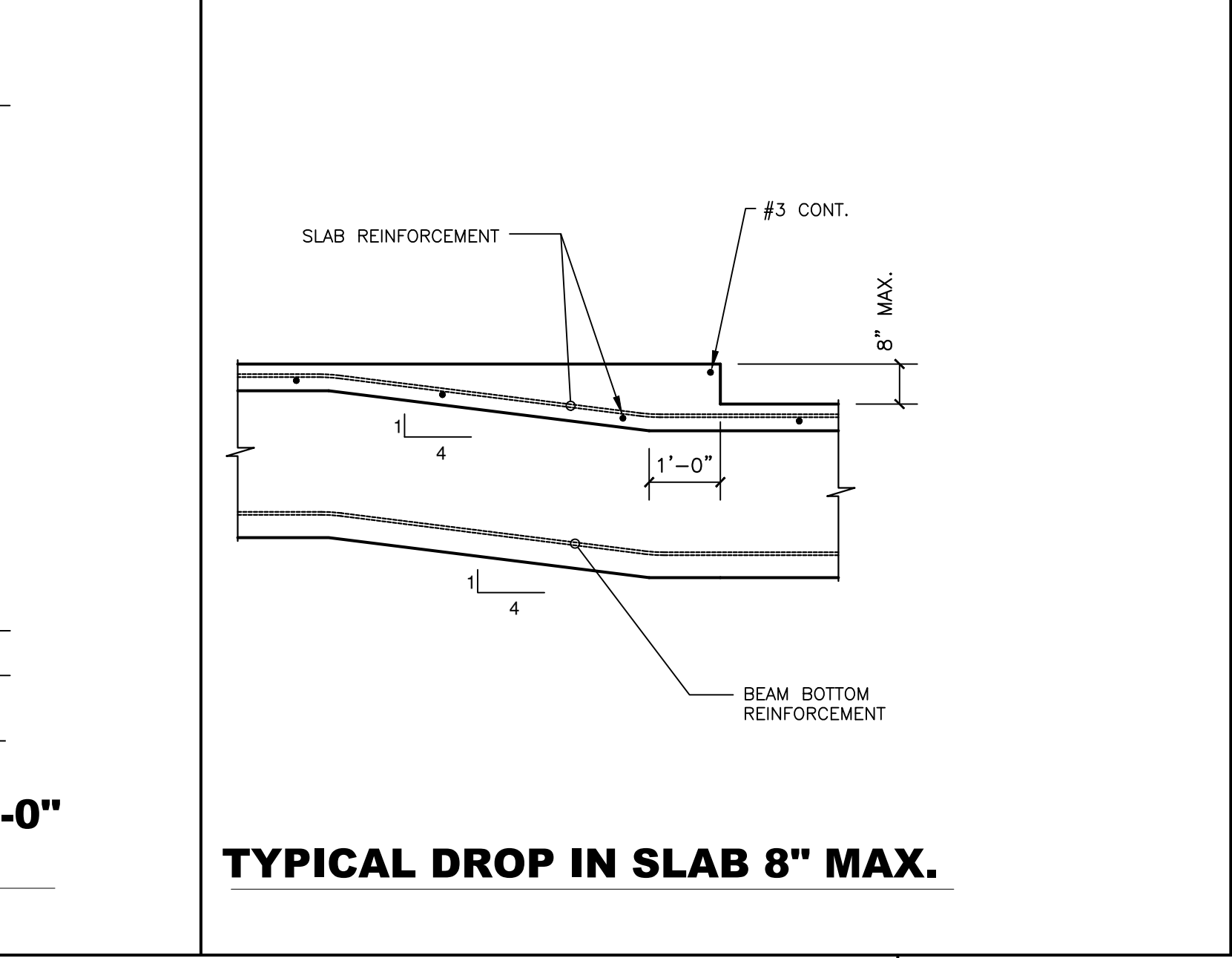
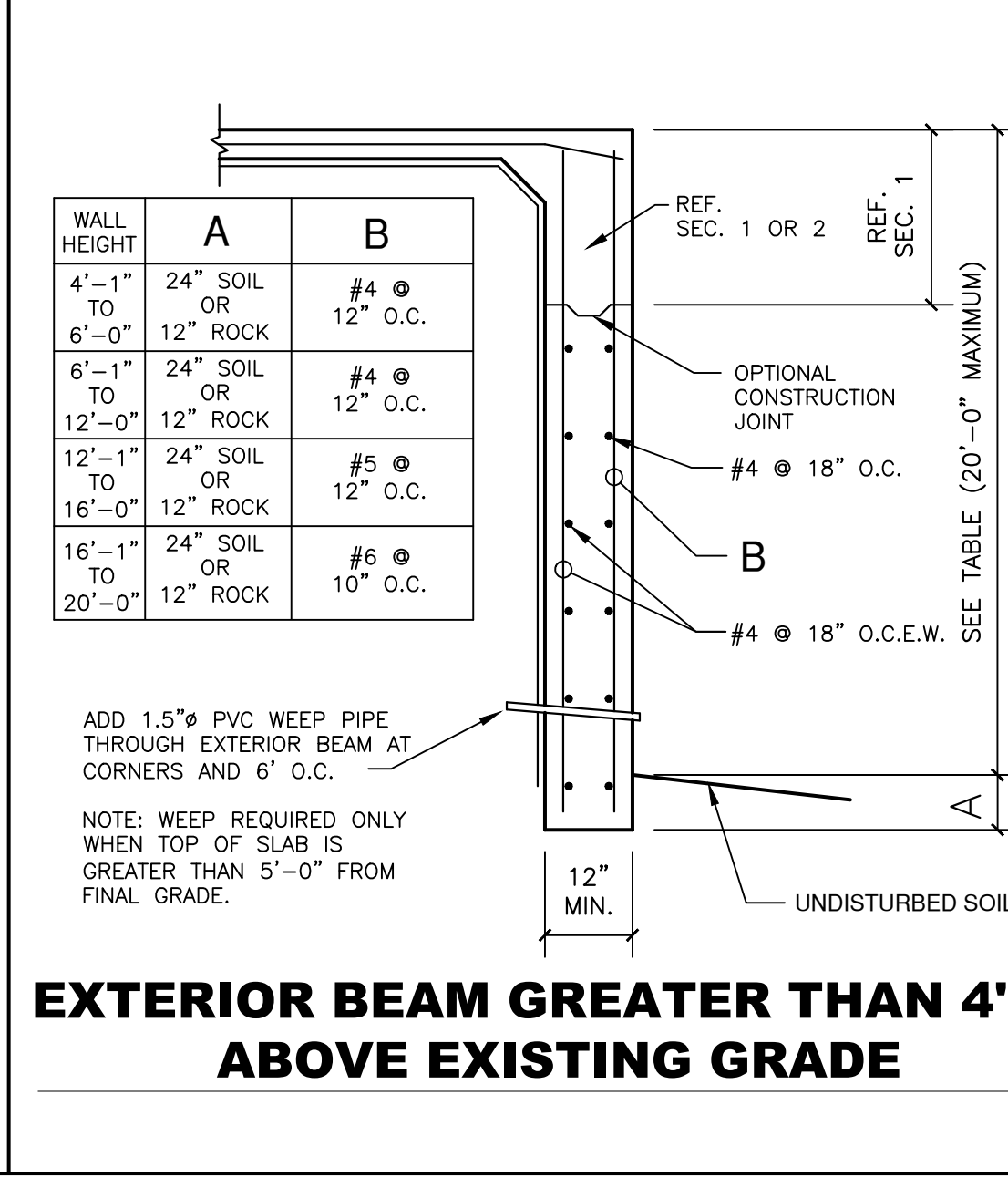
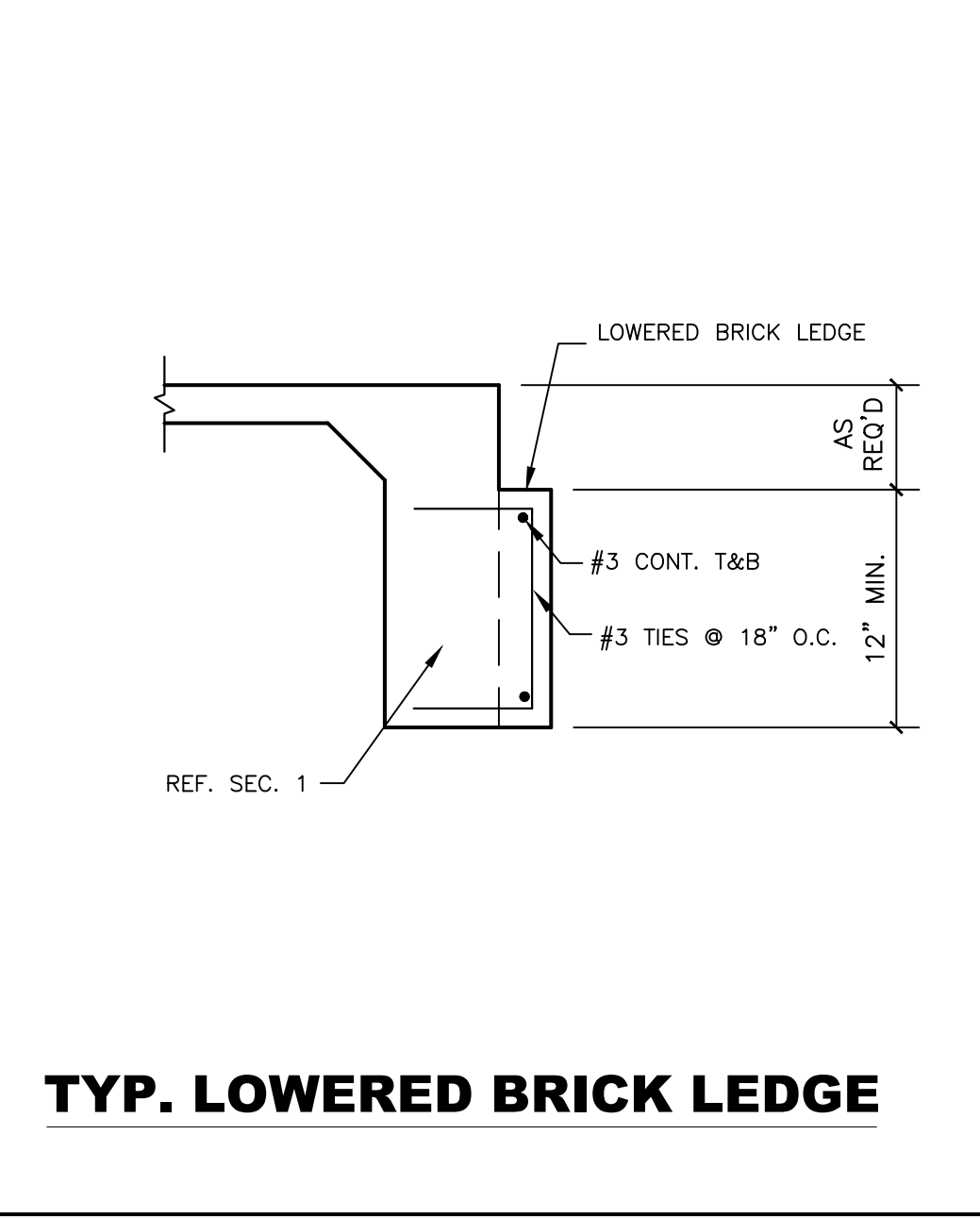
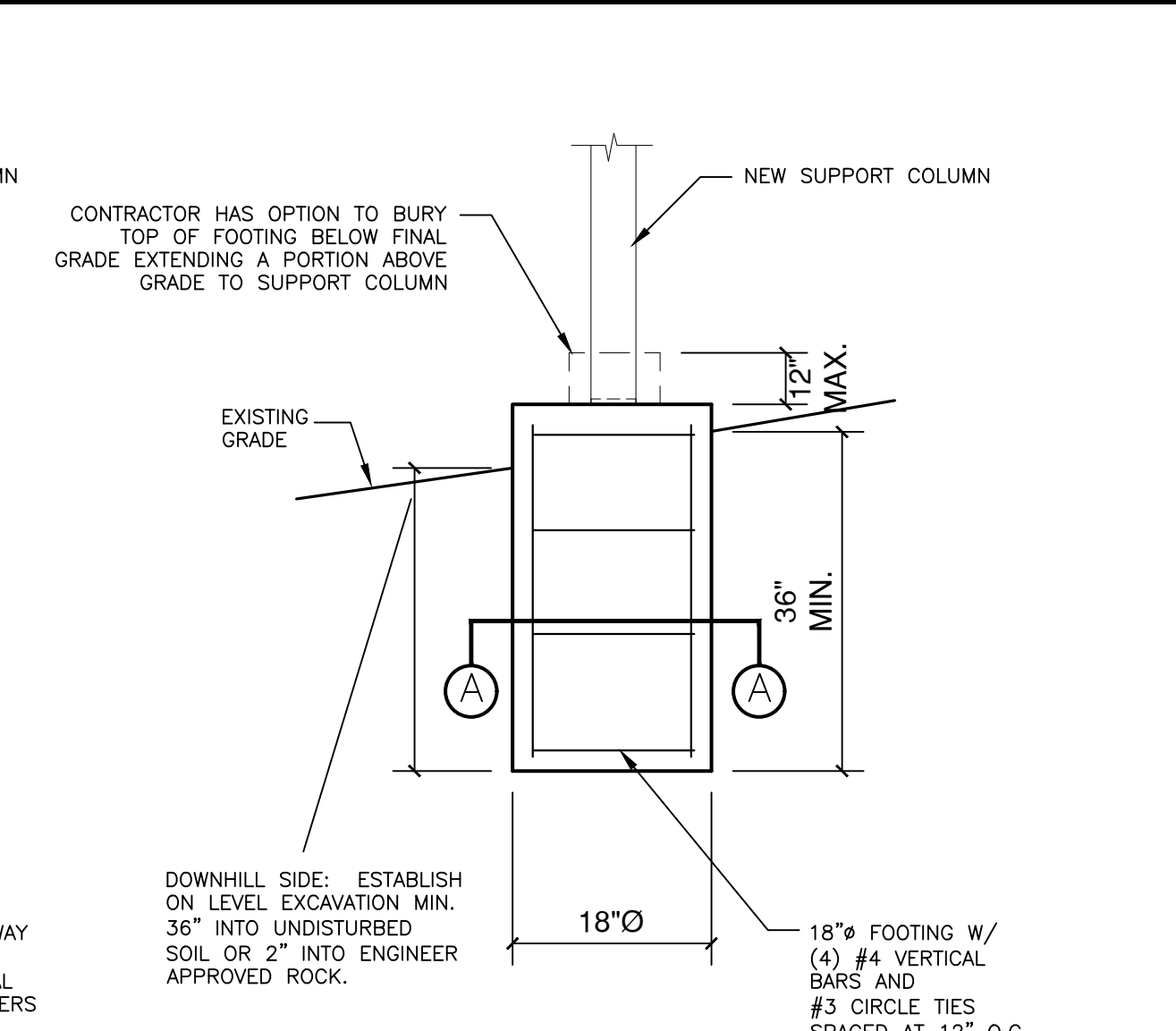
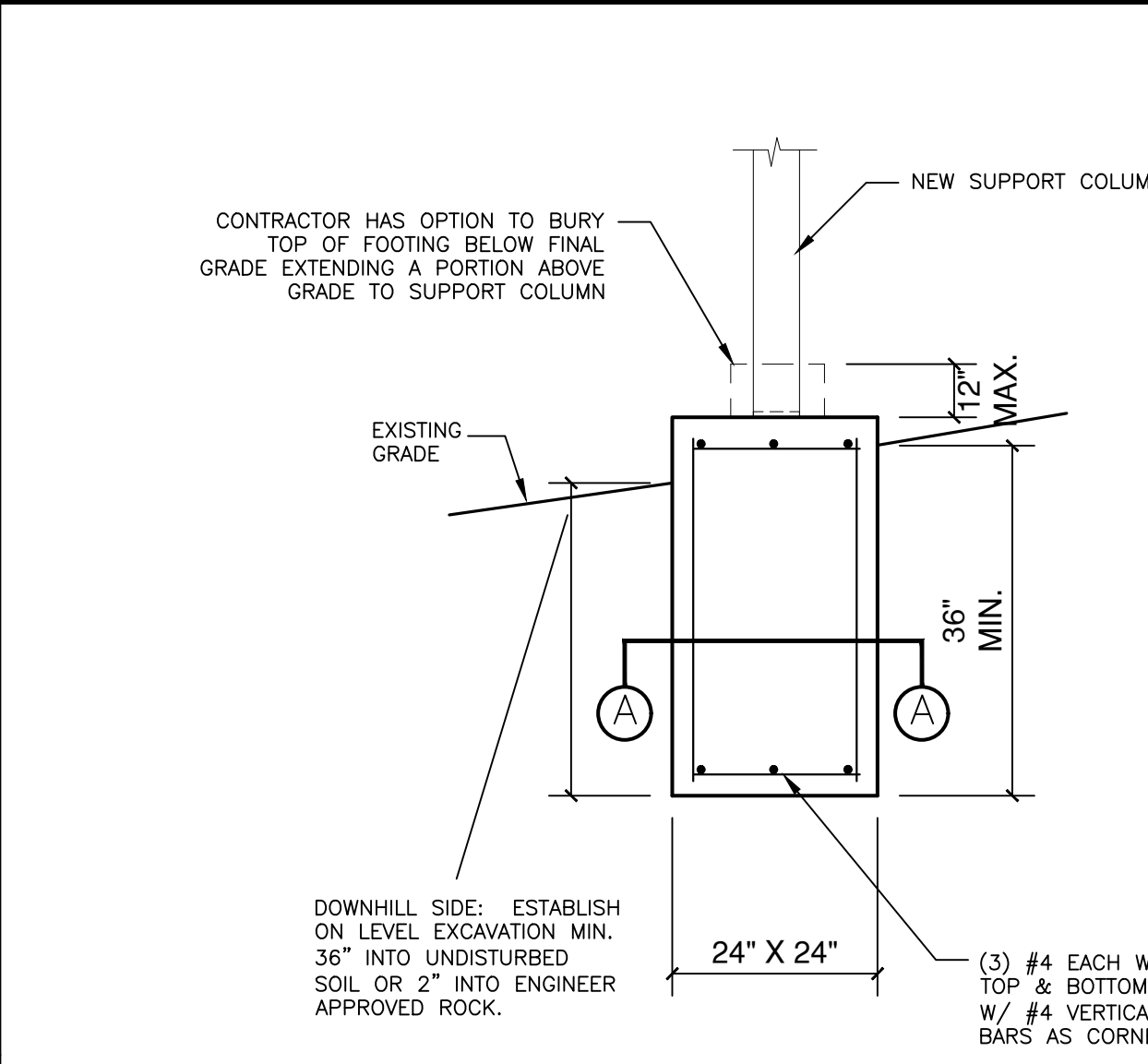
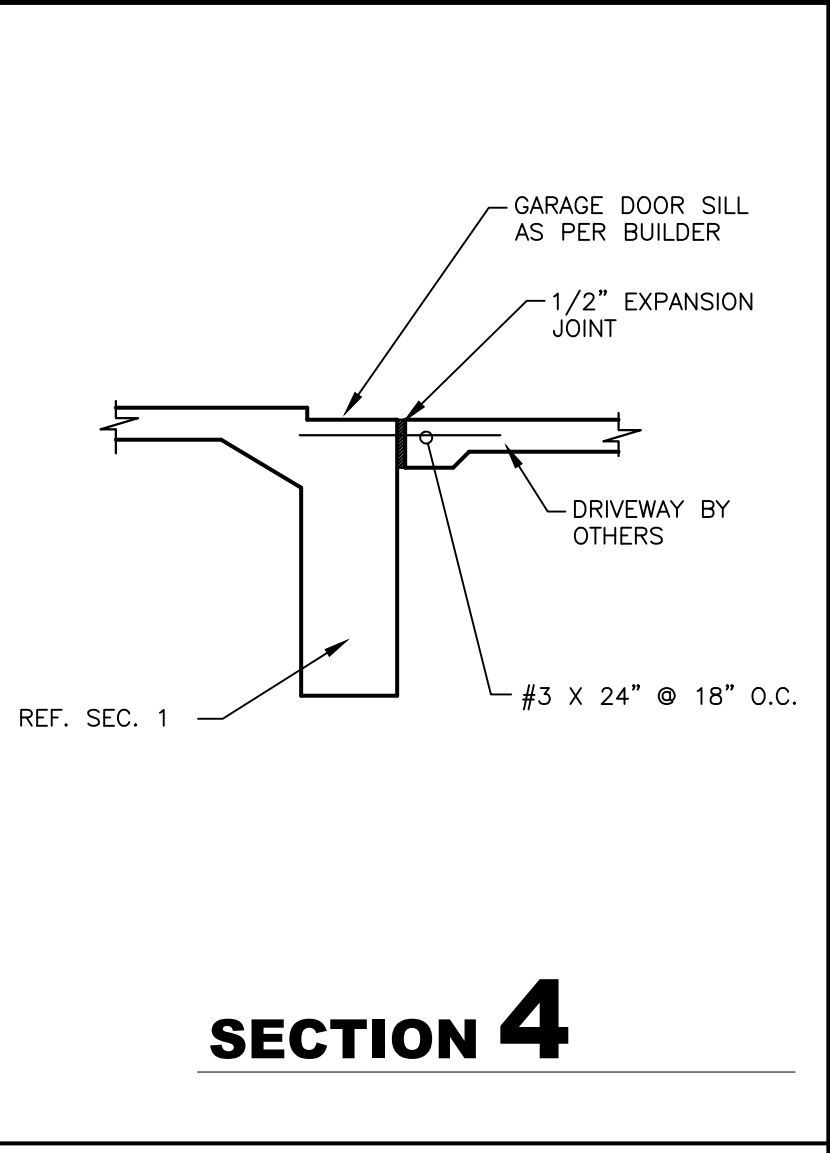
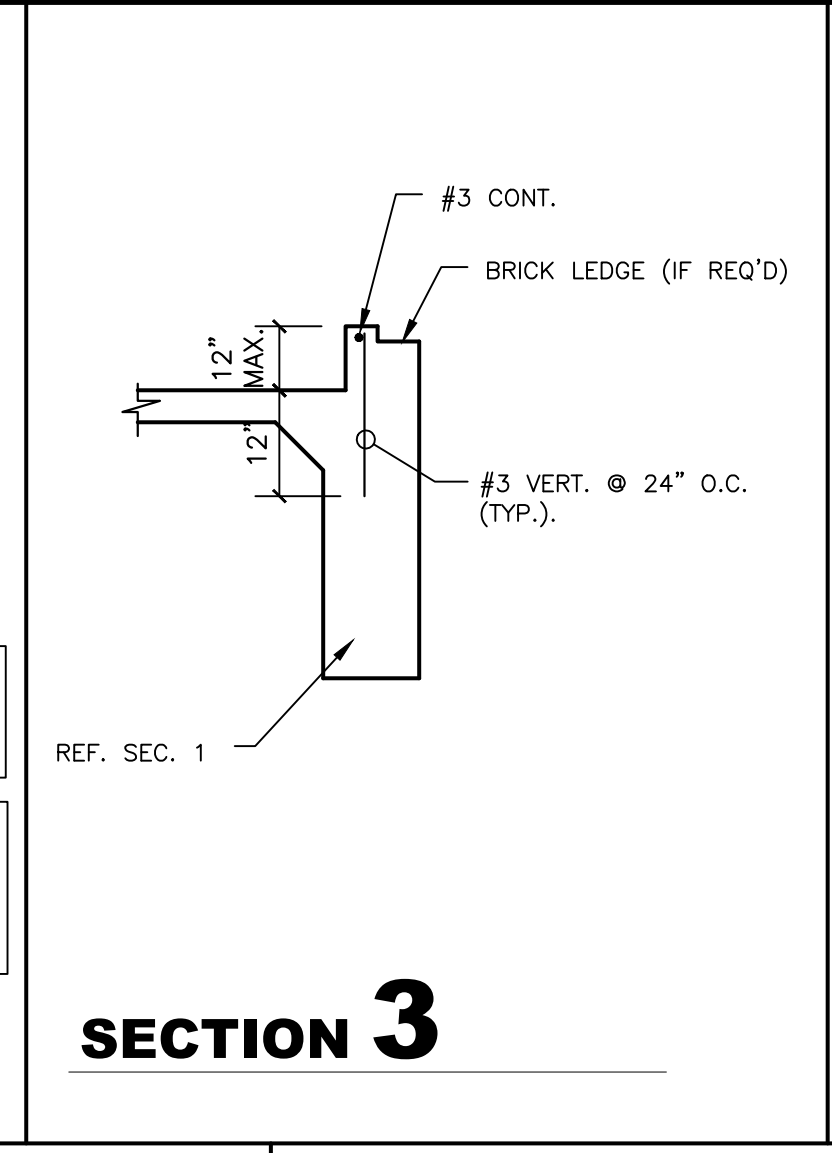
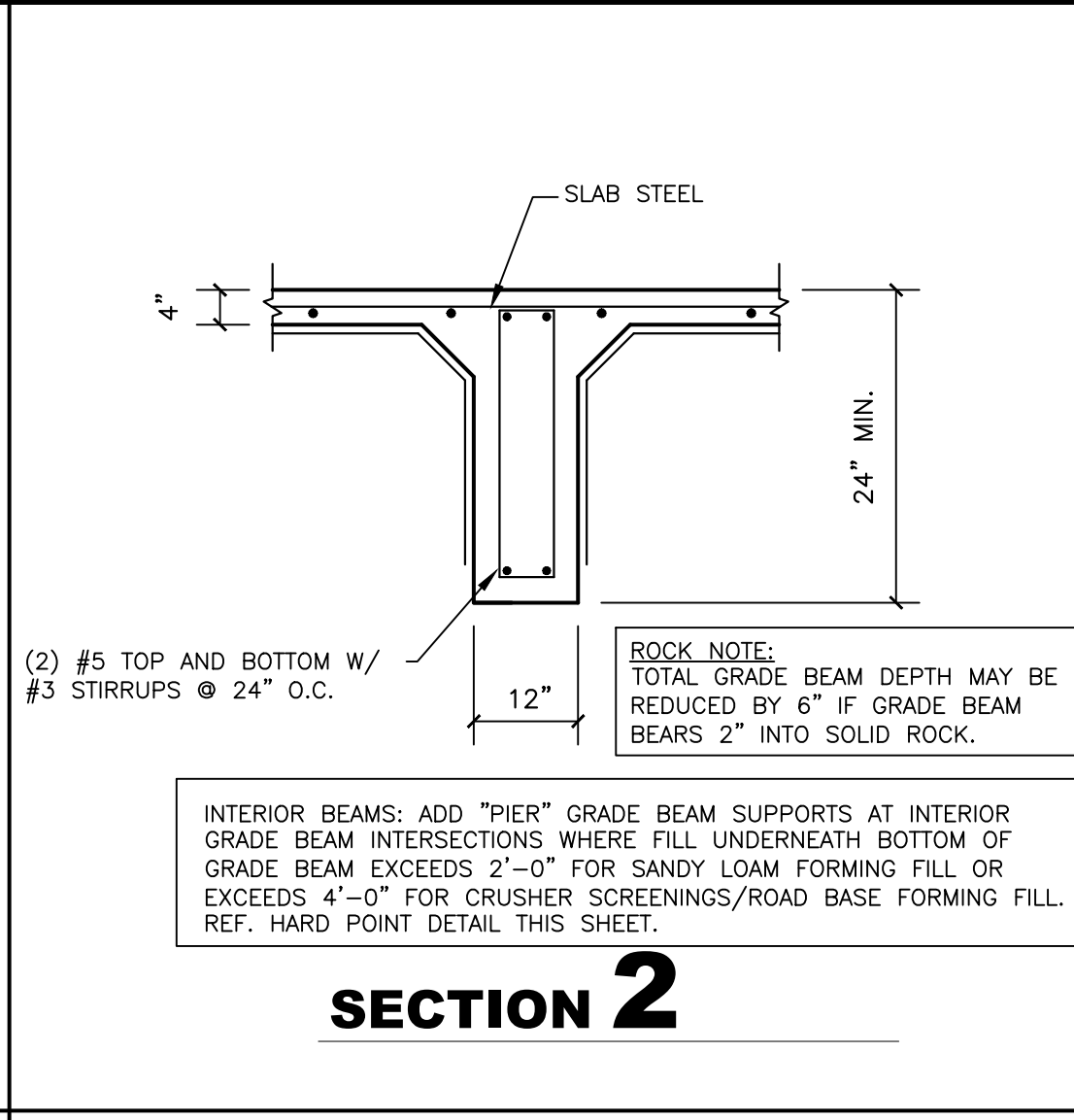
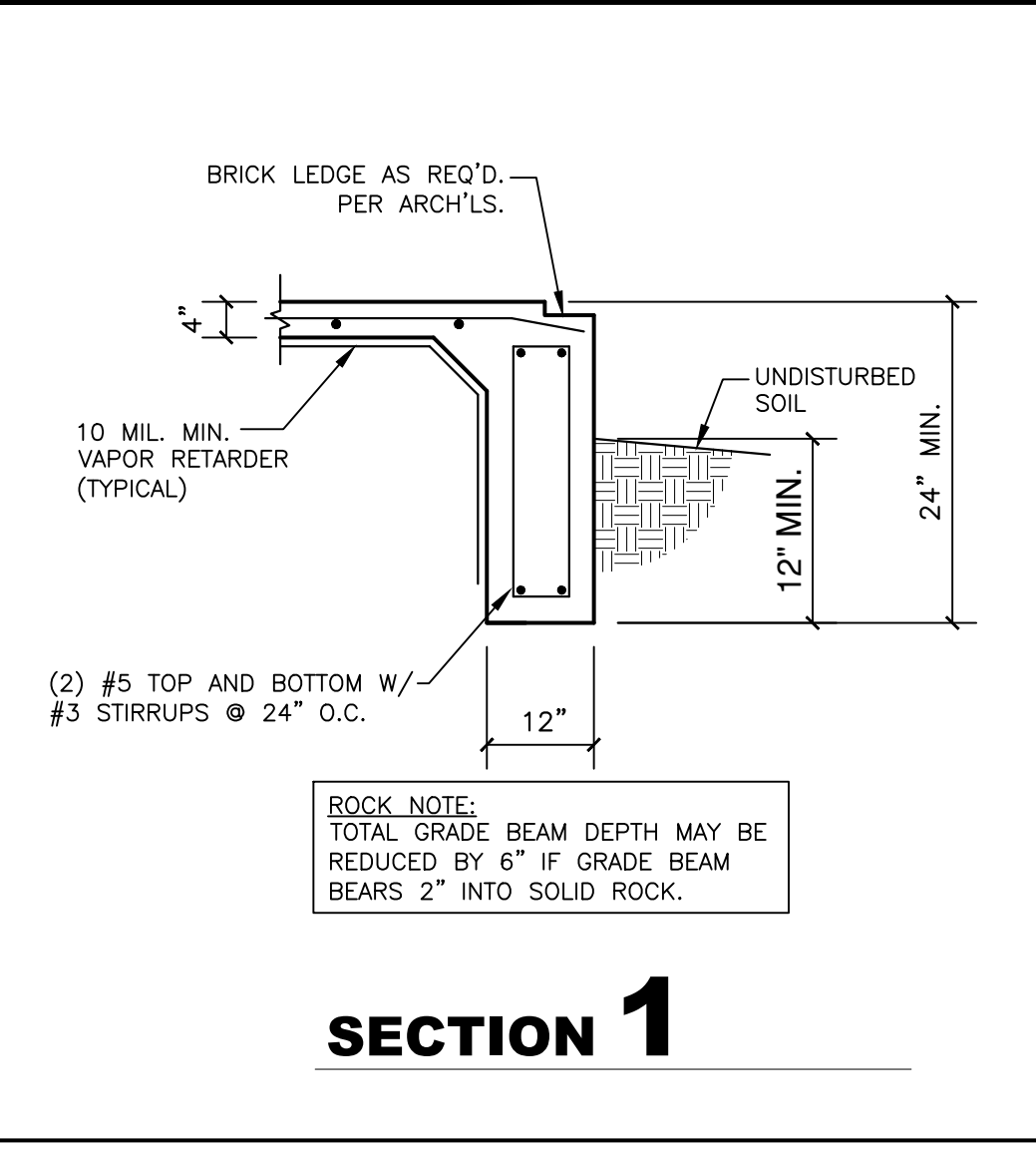
REV 04-16-23

THIS CONTENT OF THIS DOCUMENT IS VALID FOR THE PROJECT AS LISTED ON THIS SHEET. ANY USE FOR ANY OTHER PURPOSE OR PROJECT IS ILLEGAL AND STRICTLY PROHIBITED.

FOUNDATION PLAN AND DETAILS

SCALE: 3/16"=1'-0"  
 PAGE SIZE: ARCH 'D'  
 24" X 36"

S1



**GENERAL:**

- 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.
- DO NOT SCALE PLAN. CONTACT ENGINEER FOR CLARIFICATIONS.
- SHOULD CONDITIONS ARISE THAT ARE NOT COVERED BY DETAILS ON THIS PLAN, CONTACT ENGINEER AT ONCE FOR ADDITIONAL INSTRUCTIONS.
- VERIFY EXPOSED CONCRETE FINISHES THAT MAY BE REQUIRED AS PER ARCHITECTURALS. ENGINEER CANNOT BE HELD LIABLE FOR ANY OVERSIGHT IN THIS REGARD.
- SPOT FOOTINGS THAT ARE BUILT ON EXPANSIVE CLAYS HAVE POTENTIAL FOR DIFFERENTIAL MOVEMENT.
- ENGINEER IS NOT RESPONSIBLE FOR ANY PLUMBING SYSTEMS. POSSIBLE SETTLEMENT OF NOMINALLY COMPACTED FORMING FILL CAN NATURALLY OCCUR.

**FORMING FILL**

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

**CONCRETE:**

- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- CONCRETE SHALL BE WELL CONSOLIDATED USING PROPER MECHANICAL VIBRATION.
- 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.
- MINIMUM CONCRETE COVERAGE:

**SLABS:**

- 3/4" ADJACENT TO INTERIOR SLAB SURFACES
- 1 1/2" ABOVE SUB-GRADE

**GRADE BEAMS, WALLS AND FOOTINGS:**

- 1/2" ADJACENT TO EXTERIOR OR INTERIOR SURFACES
- 3" FROM SURFACES IN CONTACT WITH EARTH

**REINFORCEMENT:**

- REINFORCING STEEL TO BE GRADE 60 FOR #4 AND LARGER AND GRADE 40 FOR #3.
- AT DISCONTINUOUS STEEL ENDS, ADD CORNER BARS EQUAL TO CONT. HORIZ. STEEL SIZE WITH 30 BAR DIAMETER LEGS (24" MIN). LAP ALL STEEL 30 BAR DIAMETERS MIN.

**SOILS INFO:**

SOILS DATA BY: ON TIME GEOTECHNICAL

SOILS DATA DATE: APRIL 06, 2023

DESIGN PI = 24

EM CTR = 9.0 FT.

EM EDGE = 5.0 FT.

YM CTR = 0.60 INCH

YM EDGE = 0.80 INCH

Cw = 17

**GENERAL NOTES**

**SYNERGETIC ENGINEERING**

**FOUNDATION ENGINEER**

**3 DAY DESIGN**

(512) 845-2760

STATE OF TEXAS

PATRICK JAY BARLATURA

90279

LICENSED PROFESSIONAL ENGINEER

04-16-23

**NEW CONSTRUCTION**

**4816 PECAN CHASE - SPANISH OAKS**

BEE CAVE, TEXAS

REV 04-16-23

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**FOUNDATION DETAILS**

SCALE: N.T.S.

PAGE SIZE: ARCH 'D'

**24" X 36"**

**S2**



# SYNERGETIC ENGINEERING

3 DAY DESIGN



**Date:** June 15, 2023

**Project:** New Construction  
4816 Pecan Chase  
Bee Cave, Texas

**Subject:** Structural Engineering Compliance Letter- *Concrete Foundation Prepour- APPROVED*

**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 adhering to Geotechnical Report recommendations if a report has been generated for the project.
- Contractor responsible for maintaining 4 inch min. slab. (excluding reinforcement)
- Rebar Dowels (if applicable) contractor shall verify epoxy connection has been installed in compliance with all procedures noted on the Foundation Details Sheet.

Synergetic Engineering has conducted an investigation regarding the conditions of the project referenced above. 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



06-15-23



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