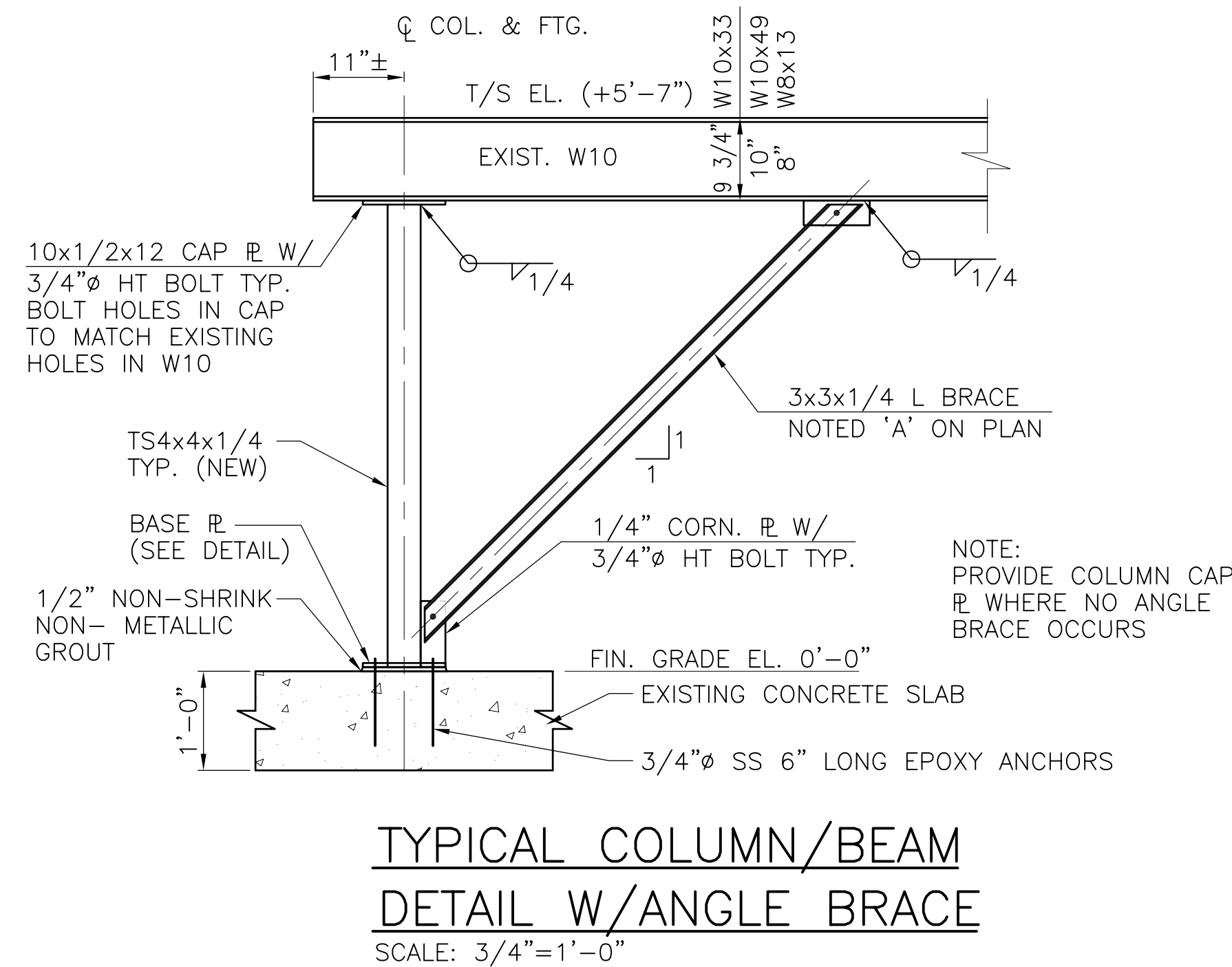
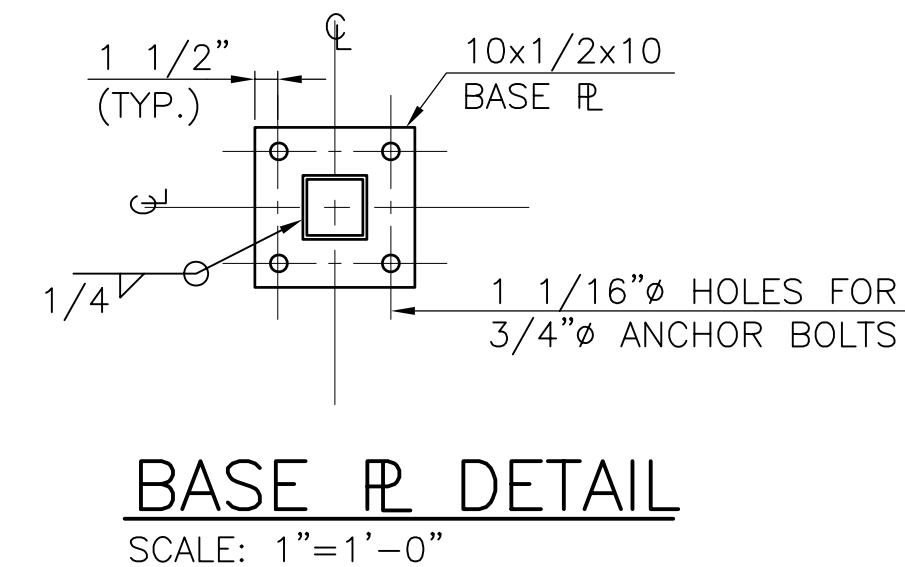


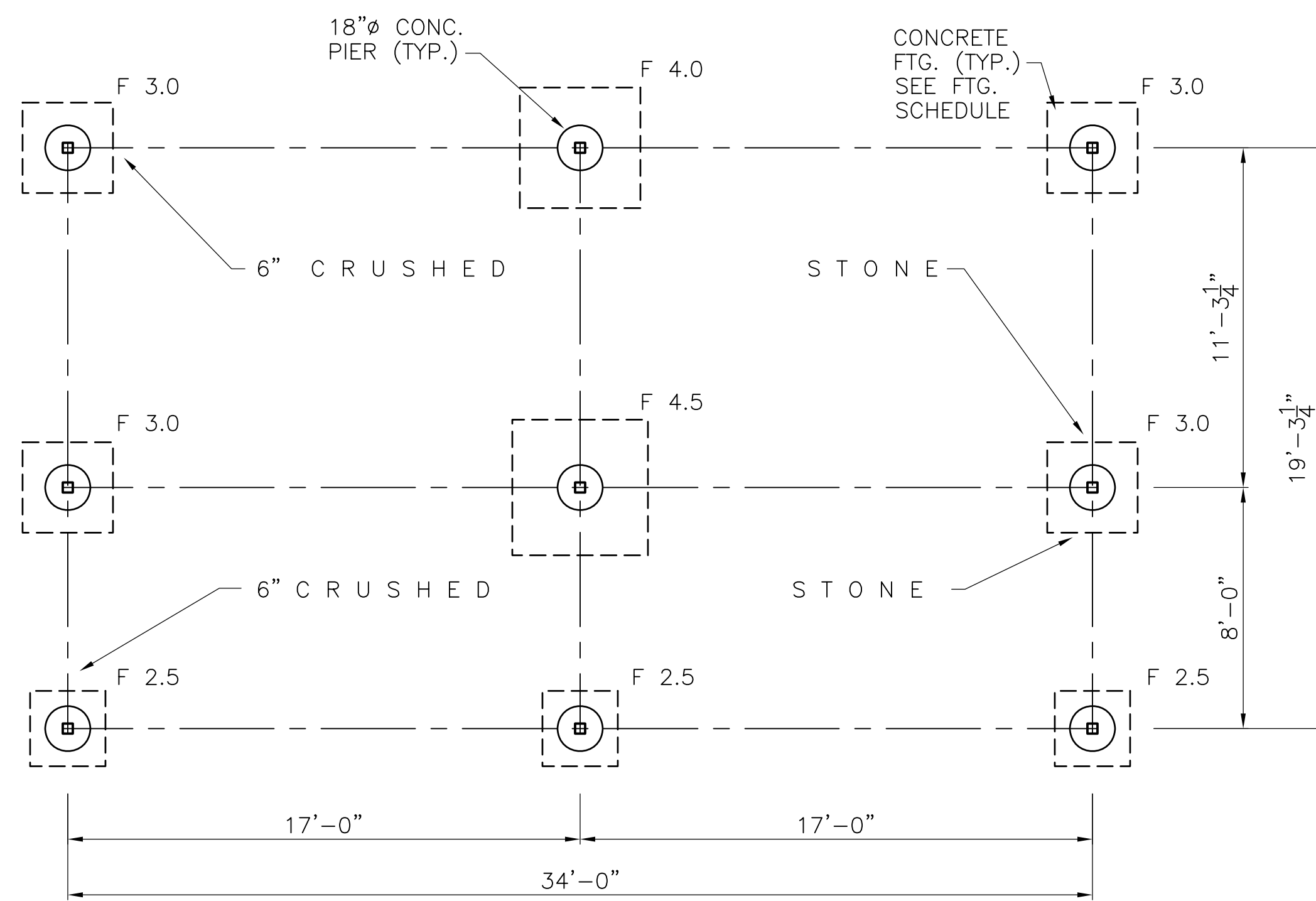
**PLATFORM FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**TYPICAL COLUMN/BEAM  
DETAIL W/ANGLE BRACE**  
SCALE: 3/4"=1'-0"



**BASE PLATE DETAIL**  
SCALE: 1"=1'-0"

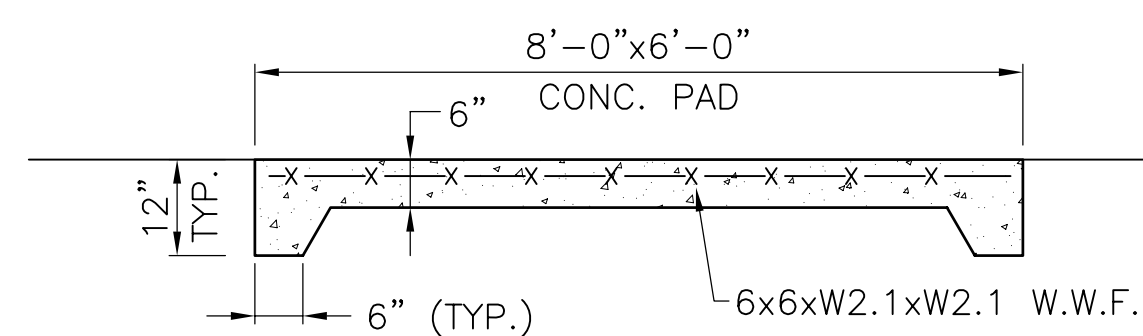


**FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"

NOTE:  
BOTTOM ELEVATION OF  
ALL FOOTINGS (-3'-0")

MARK	SIZE	DEPTH	BOTT. REINF. (E.W.)
F 2.5	2'-6" x 2'-6"	1-6"	3 - #4
F 3.0	3'-0" x 3'-0"	1-6"	4 - #4
F 4.0	4'-0" x 4'-0"	1-6"	5 - #4
F 4.5	4'-6" x 4'-6"	1-6"	6 - #4

- PROVIDE 3" CLEARANCE TO REINFORCING



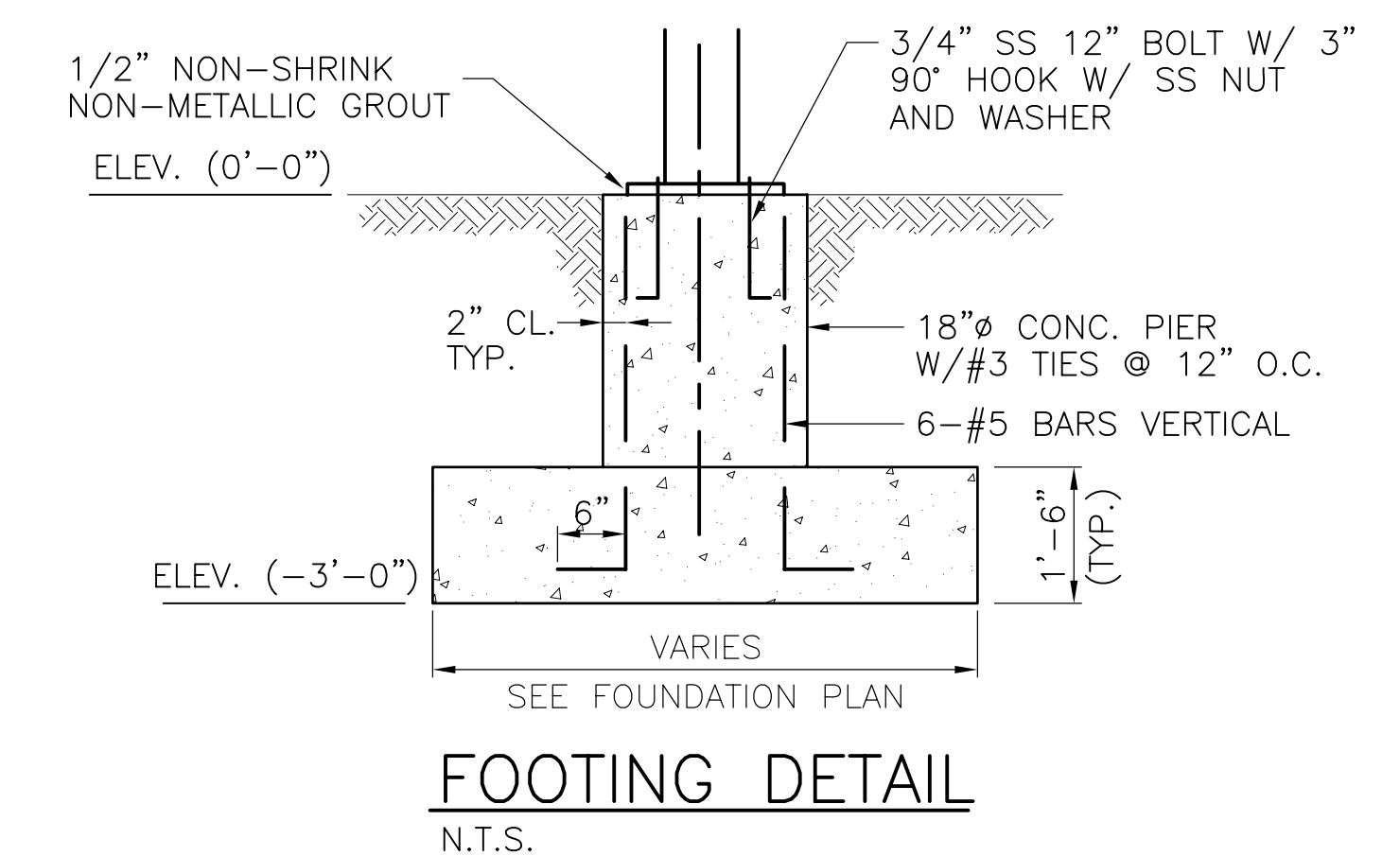
**TYPICAL CONCRETE PAD**  
SCALE: 1/2"=1'-0"  
NOTE:  
TO BE LOCATED IN FIELD BY CONTRACTOR

**GENERAL NOTES AND SPECIFICATIONS**

- The Project design is in accordance with the International Building Code.
- The Contractor shall verify all dimensions before proceeding with dismantling the existing platforms.
- The new platform has been detailed as per the existing HVAC unit support framing, as shown on Drawing S-5 of Rhone-Paulenc Inc. Technical Research Center, Cranbury, NJ, Chiller Plant & Cooling Tower Upgrade, and dated 8/4/95.
- The foundation elements have been designed for Site Class D, with an allowable soil bearing capacity of 2000 psf. Notify the Engineer immediately if field conditions appear to have a bearing capacity less than 2000 psf (suitable for sandy and gravelly soils).
- Soil bearing conditions for all footings shall be inspected and approved by a Soils Engineer, selected and paid for by the Contractor, before any footings are placed.
- All concrete used on the Project shall be normal weight, stone concrete, with a nominal weight of 150 lbs per cubic foot. The concrete shall contain a minimum of 600 pounds of Type I portland cement, with a maximum water/cement ratio of 0.40.
- All reinforcing shall conform to ASTM A615, Grade 60.
- All new structural steel required shall conform to ASTM A492, Grade 50.
- All new angles, channels, plates shall conform to ASTM A36.
- All anchor bolts shall conform to ASTM A307, or equal.
- All bolts shall be high strength friction bolts conforming to ASTM A325 and shall be provided with hardened washers under the turned element (nut or bolt head).
- The installation and tightening of all high strength bolts shall conform to the "Specification for Structural Joints Using ASTM A325 Bolts", - turn of the nut method.
- All welding electrodes shall be E70XX electrodes.
- All welding shall conform to the American Welding Society Code for Arc and Gas Welding in Building Construction.
- All tubular steel columns shall conform to ASTM A500, Grade B, with a yield stress of 46 ksi.
- All existing steel shall receive a touchup coat of paint, as required.
- All new structural steel shall receive a shop coat of Koppers 622-LCF primer, or equal, with a minimum dry thickness of 2.5 mils, and an epoxy two part finish coat; one (1) coat of Con-Lux Epolon rust inhibitor and one (1) coat of Con-Lux Epolon, applied in accordance with manufacturer's recommendations. Touch-up and paint all bolts, nuts, welds and scratches, in the field, after erection.
- All columns shall be milled to bear at cap and base plates.

**DESIGN CRITERIA**

- Live Loads
  - Platform - 100 psf
  - Unit roof - 30 psf
- Wind Load
  - Basic wind speed (3 second gust) 90 mph
  - Wind importance factor - 1.0
  - Structure category - C
- Seismic Loads
  - Seismic use group - I
  - Site class - D
  - Spectral response coefficients  
S<sub>ds</sub> = 0.12  
S<sub>d1</sub> = 0.08
  - Design base shear = 12.2 kips (actual)



**FOOTING DETAIL**  
N.T.S.

FOR BALANCE OF DETAIL  
SEE TYPICAL COLUMN/BEAM DETAIL