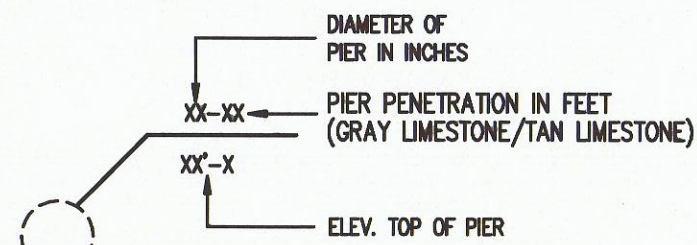
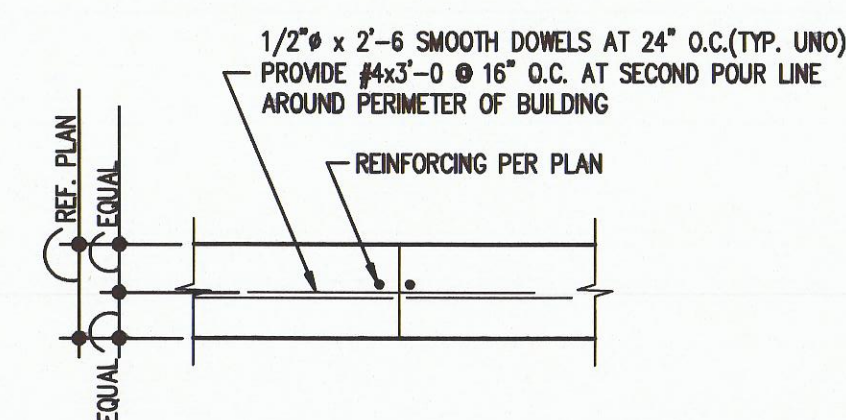


**01 TYPICAL PIER DETAIL**  
NO SCALE

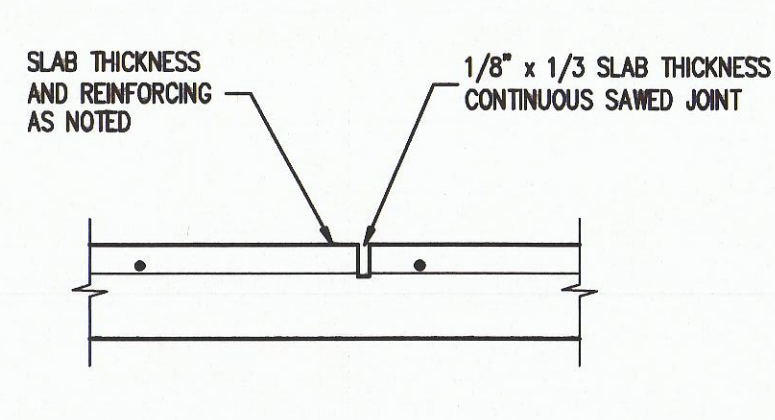
PIER REINFORCING SCHEDULE			
SHAFT DIAMETER	VERT. REINF.	SPIRAL DIAMETER	CONC. STRENGTH f <sub>c</sub>
12"	4 - # 5	6"	3000 PSI
24"	8 - # 7	12"	3000 PSI



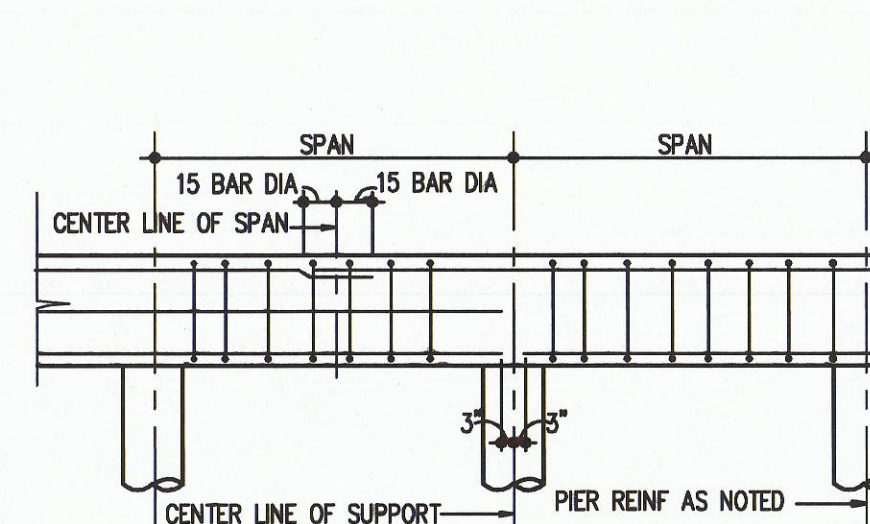
PIER LEGEND



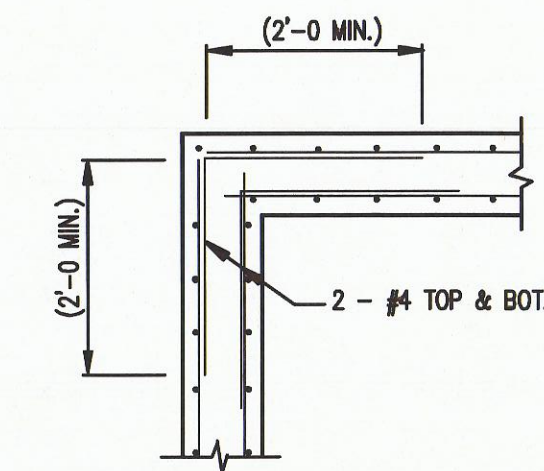
**02 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT DETAIL**  
NOT TO SCALE



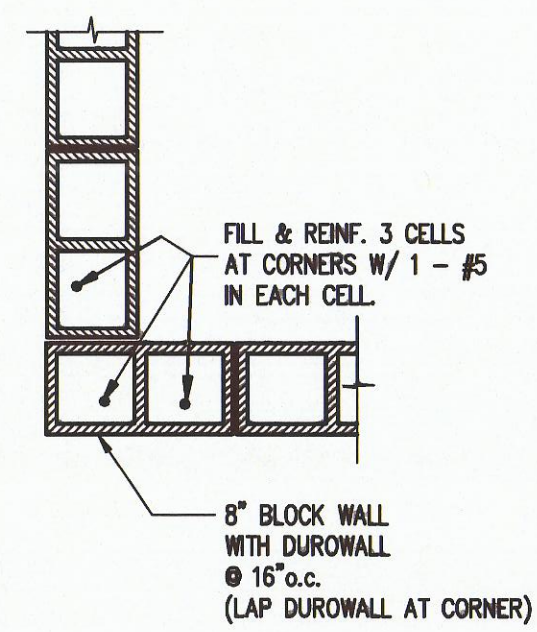
**03 TYPICAL SLAB ON GRADE CONTROL JOINT DETAIL**  
NOT TO SCALE



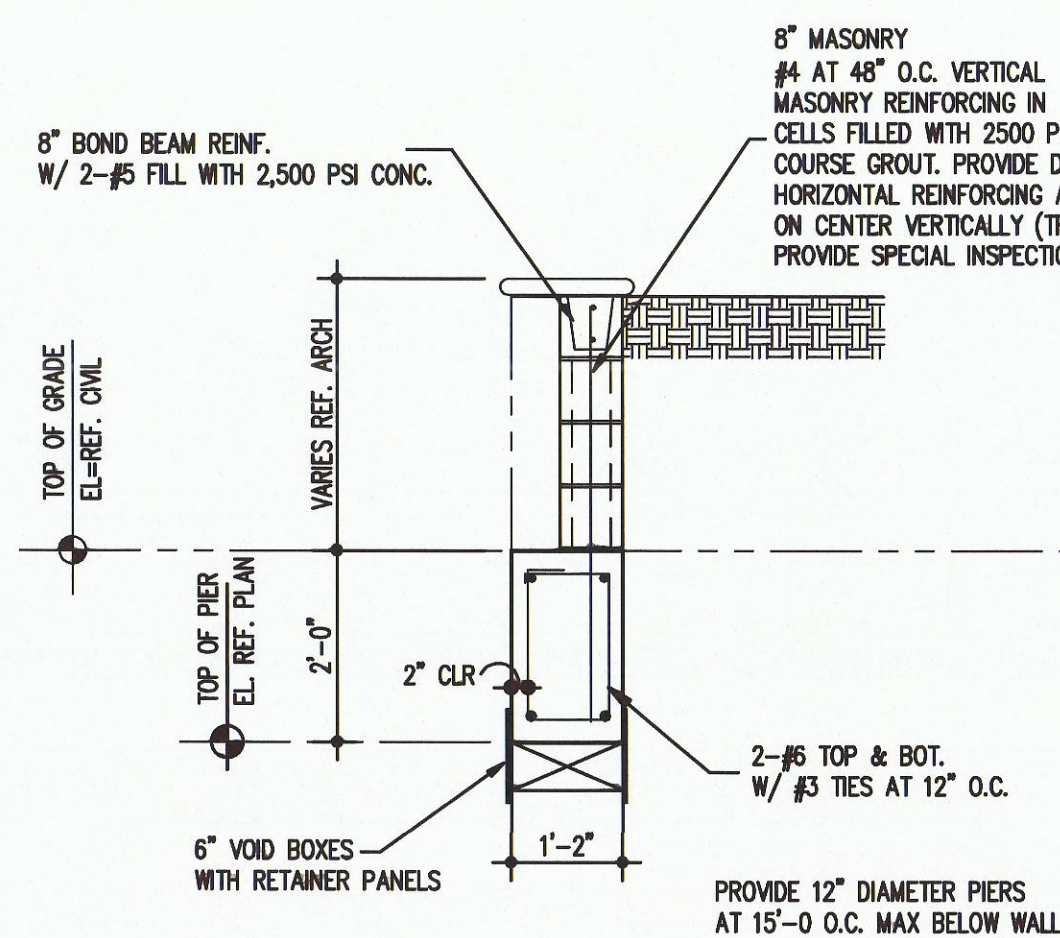
**04 TYPICAL GRADE BEAM REBAR SPLICE DETAIL**  
NOT TO SCALE



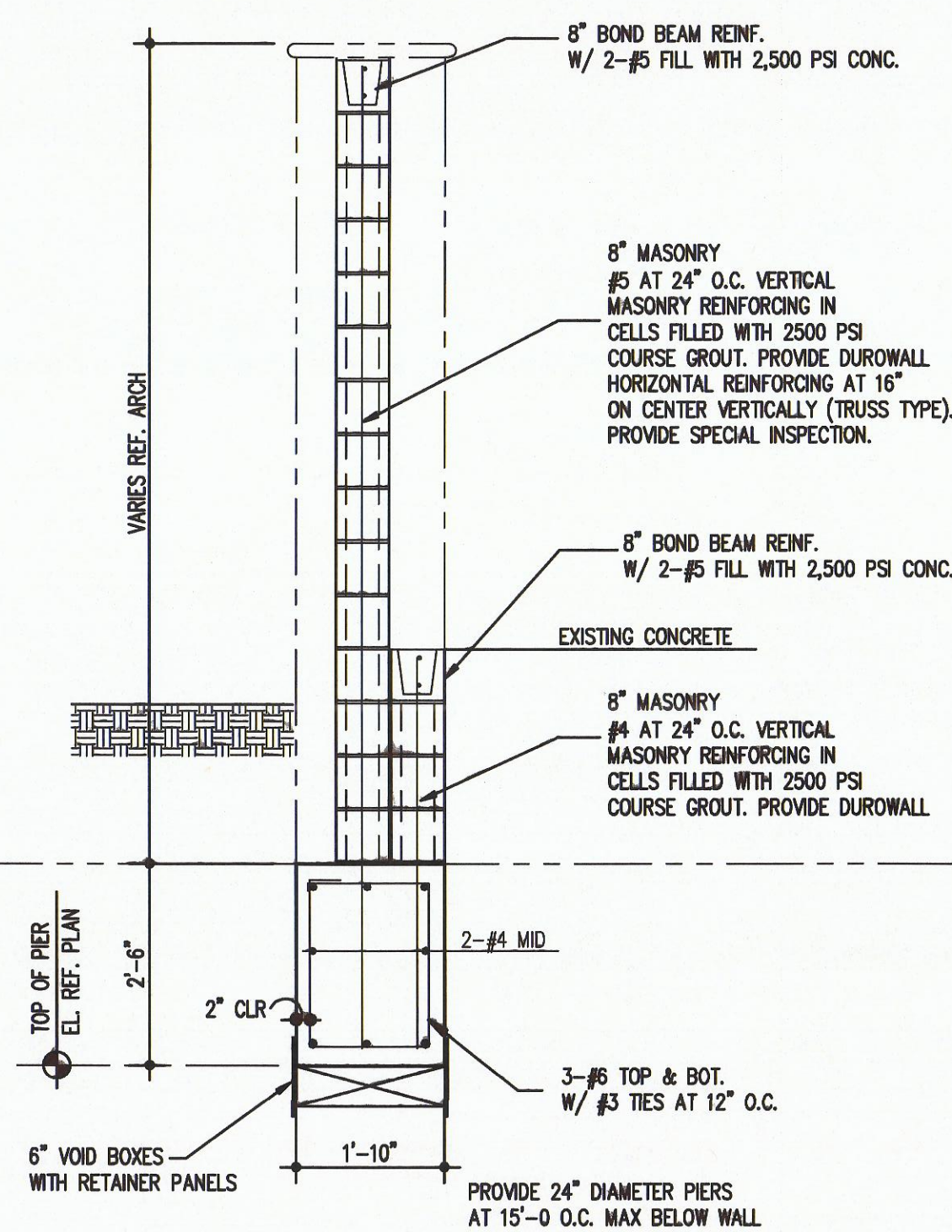
**05 TYPICAL GRADE BEAM CORNER BAR DETAIL**  
NOT TO SCALE



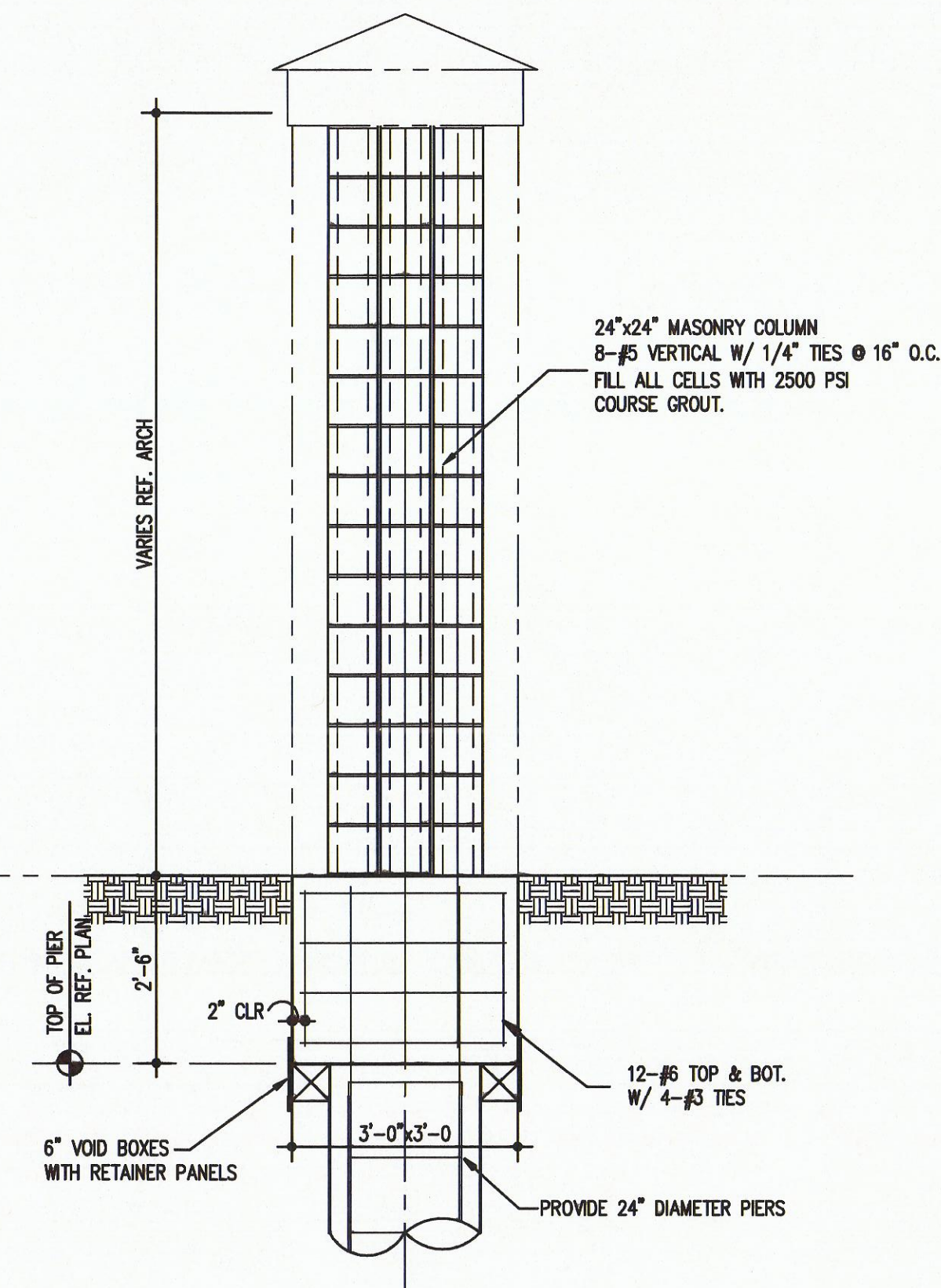
**06 TYP MASONRY CORNER DETAIL**



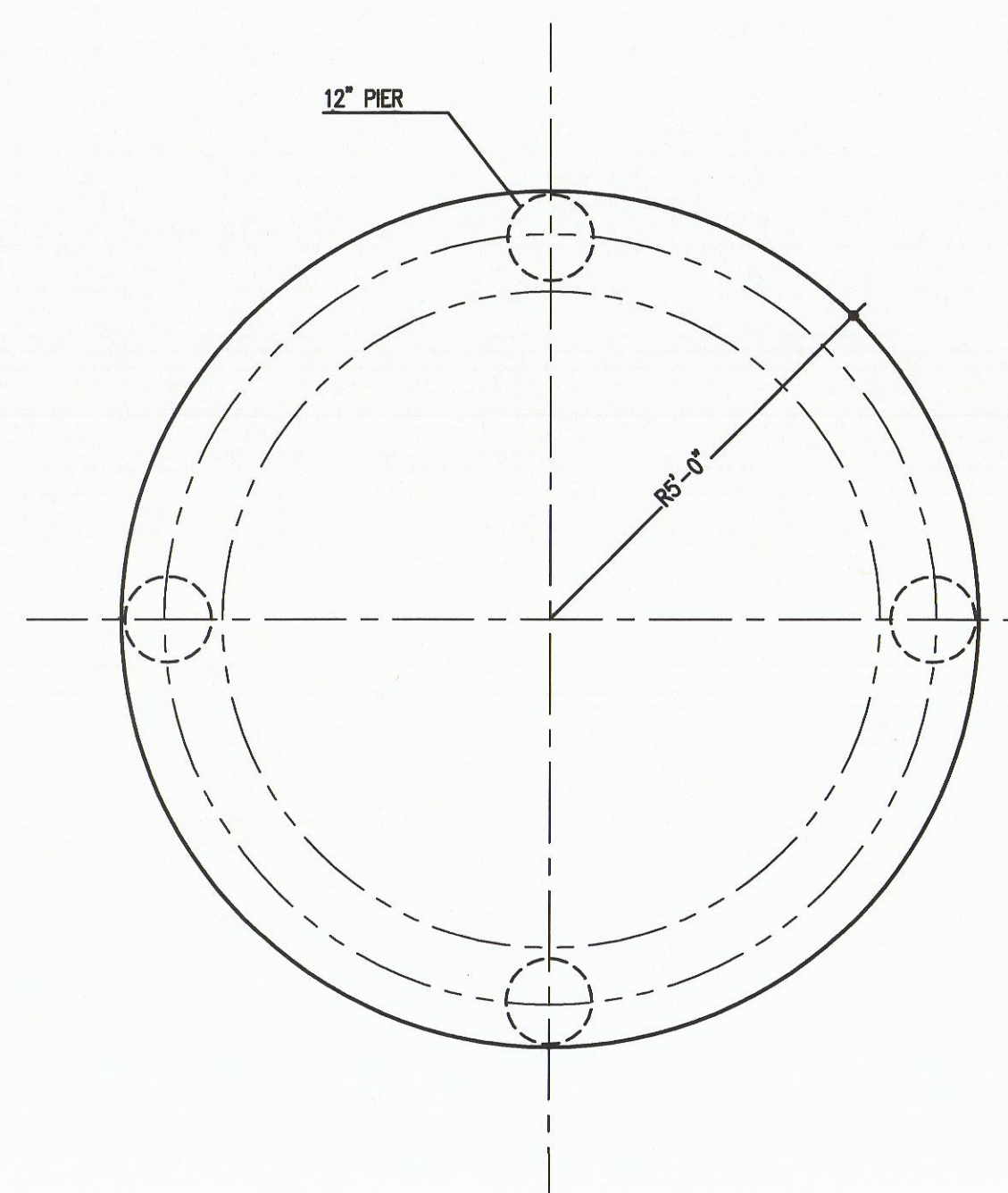
**07 TYPICAL SEAT WALL DETAIL**  
SCALE 1/2"=1'-0"



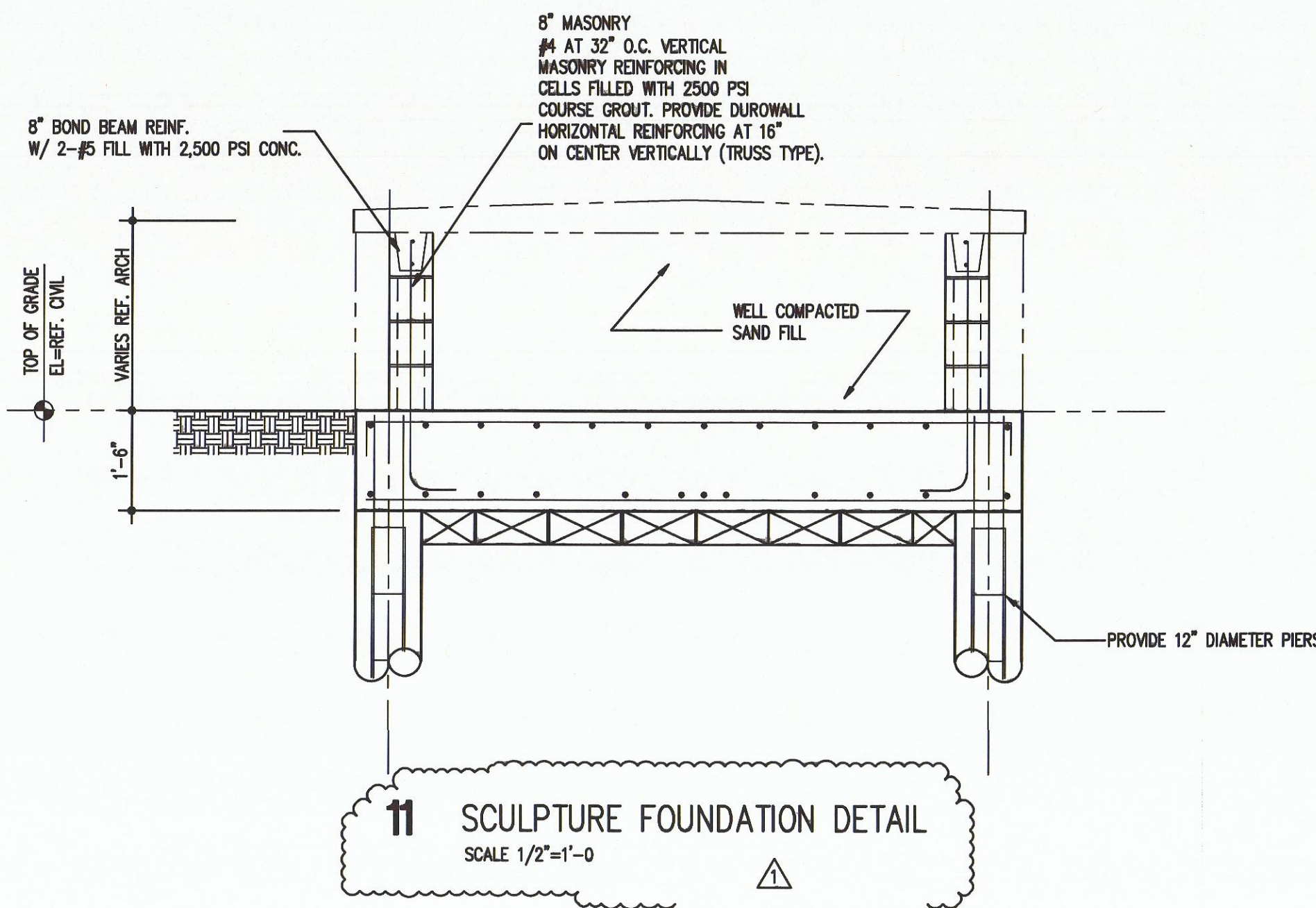
**08 TYPICAL GARDEN WALL DETAIL**  
SCALE 1/2"=1'-0"



**09 TYPICAL IMAGE COLUMN DETAIL**  
SCALE 1/2"=1'-0"



**10 PLAN - SCULPTURE FOUNDATION**  
SCALE 1/2"=1'-0"



**11 SCULPTURE FOUNDATION DETAIL**  
SCALE 1/2"=1'-0"

GENERAL NOTES

- FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE SOIL INVESTIGATION PREPARED BY (NOT AVAILABLE YET), JOB NO. XXXXXX, DATED XXXXXXXX. FOUNDATION SHALL CONSIST OF AUGER EXCAVATED STRAIGHT SHAFT REINFORCED CONCRETE PIERS, BEARING IN THE UNWEATHERED GRAY LIMESTONE STRATUM. PIERS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 25,000 PSF AND A SKIN FRICTION OF 2,500 PSF. REFERENCE TYPICAL PIER DETAIL FOR DEPTH TO BEARING STRATUM, AND ADDITIONAL DETAILS. PIERS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- A SIX (6") INCH MAX-IMPREGNATED CARDBOARD VOID FORM SHALL BE PROVIDED BELOW ALL GRADE BEAMS WITH RETAINER BOARDS.
- THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2009 INTERNATIONAL BUILDING CODE.
- DESIGN LOADS ARE AS LISTED BELOW:  
LIVE LOAD 100 PSF  
GROUND SNOW 5 PSF  
WIND 90 MPH WIND SPEED EXPOSURE B  
SEISMIC PER 2009 IBC - SITE CLASS C IMPORTANCE FACTOR 1.00  
S<sub>ds</sub>=0.076 S<sub>d1</sub>=0.058 SEISMIC CATEGORY A
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS. VERIFY ALL EXISTING CONDITIONS INCLUDING CONFLICTS WITH UNDER GROUND UTILITIES.

CONCRETE NOTES

- ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED AND SHALL MEET THE REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318). CONCRETE SHALL ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

COMPRESSIVE STRENGTH @ 28 DAYS	TYPE AGGREGATE + AIR ENTRAINMENT	USAGE
3500 PSI	HARD ROCK + AIR	ALL CONCRETE

ENTRAINING AGENT SHALL BE ADDED TO THE NOTED CONCRETE TO PROVIDE 3 TO 6 PERCENT AIR BY VOLUME.

- ALL CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318 AND ACI 301.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. REFERENCE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED.

PILASTERS & GRADE BEAMS	2"
ALL CONCRETE PLACED AGAINST SOIL	3"
SLABS ON GRADE	2" TOP

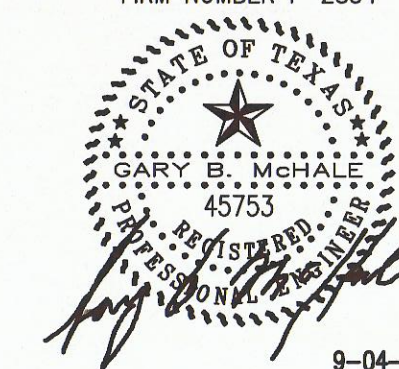
- HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSEN PARTICLES OR DAMAGED CONCRETE.
- HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90, NORMAL WEIGHT, GRADE N, TYPE 1, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA OF THE BLOCK. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. ALL EXTERIOR MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F<sub>m</sub>= 1500 PSI. COARSE GROUT SHALL CONFORM TO ASTM C-776 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", AND A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. BLOCK SHALL BE LOW LIFT GROUTED. VERTICAL REINFORCING SHALL BE AS SHOWN ON DESIGN DOCUMENTS. REINFORCING BARS SHALL BE LAPPED 40 BAR DIAMETERS MINIMUM WHERE SPLICED AND SHALL BE WIRED TOGETHER. HORIZONTAL WALL REINFORCING SHALL BE STANDARD #9 GA. DUR-O-WALL (TRUSS TYPE) AT 16" O.C. WALLS SHALL BE REINFORCED WITH #5@32" VERTICAL IN CELLS FILLED WITH 2,500 PSI CONCRETE UNLESS NOTED OTHERWISE.

REINFORCING STEEL NOTES

- ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615 - GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE ACI 315 AND ACI 318.
- HEADED STUDS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.
- HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON THE DRAWINGS.



McHALE ENGINEERING INC.  
FIRM NUMBER F-2854



BELTWAY DRIVE  
PARKWAY IMPROVEMEN  
ADDISON, TX

DETAILS

REVISIONS

Date	Description
9-4-2014	COORDINATION REVISION

S-1

DATE: JULY 31, 2014