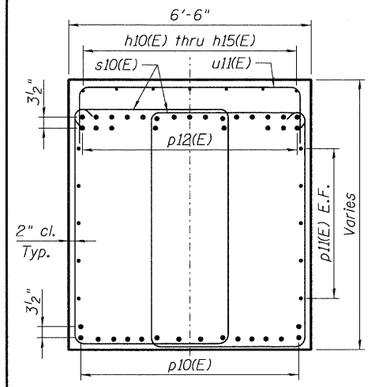
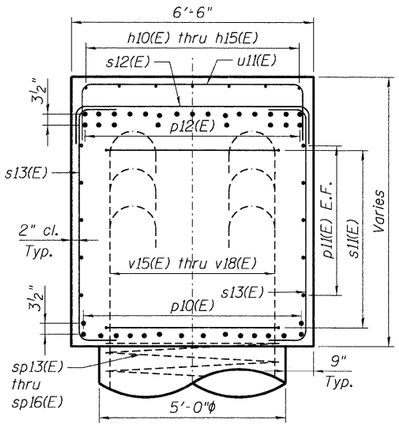
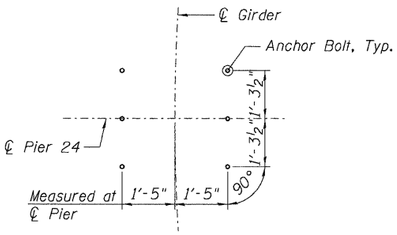


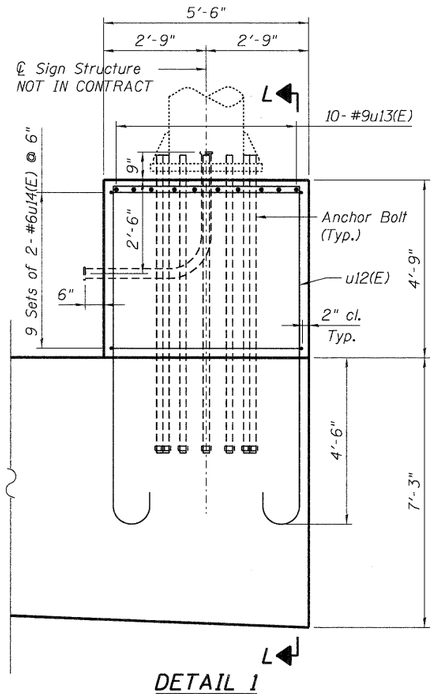
SECTION A-A



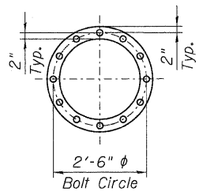
SECTION B-B



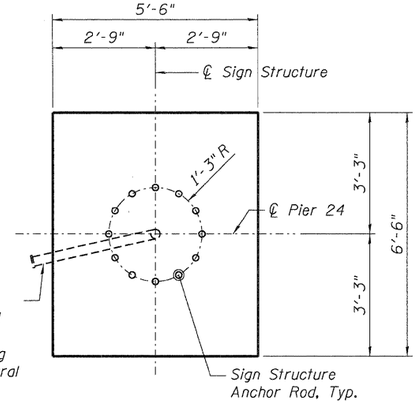
ANCHOR BOLT LAYOUT



DETAIL 1

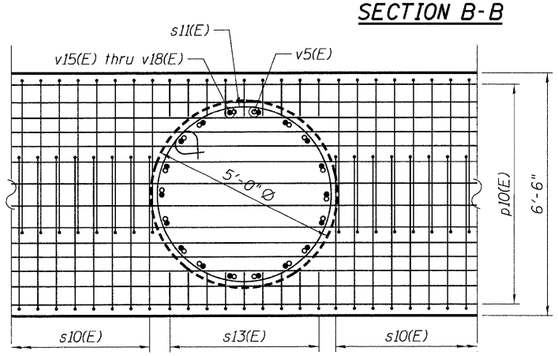


SUGGESTED POSITIONING PLATE

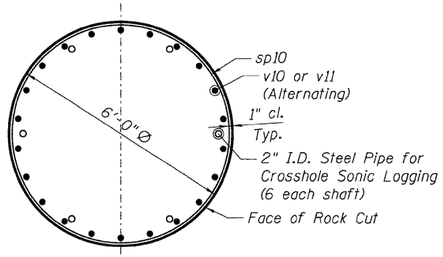


3"ø galvanized steel conduit - thread and cap both ends. Cost included in Furnishing and Erecting Structural Steel (Pounds).

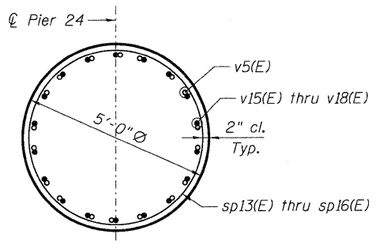
SIGN STRUCTURE ANCHOR ROD LAYOUT



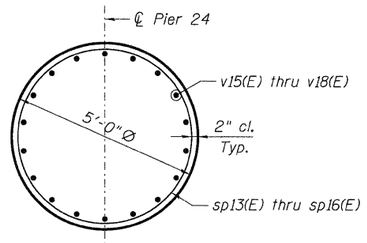
SECTION C-C



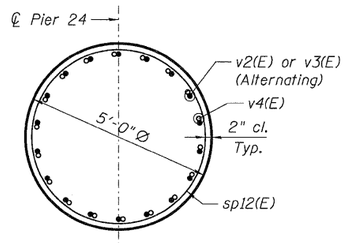
SECTION K-K



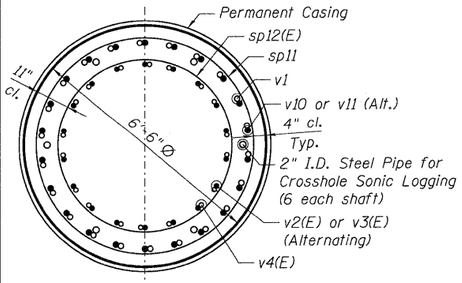
SECTION D-D



SECTION E-E



SECTION F-F



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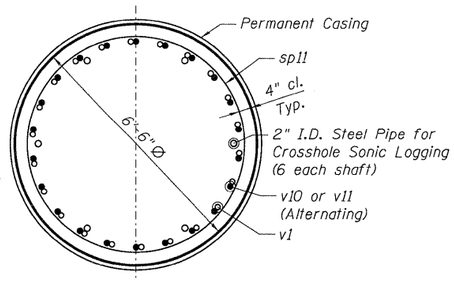
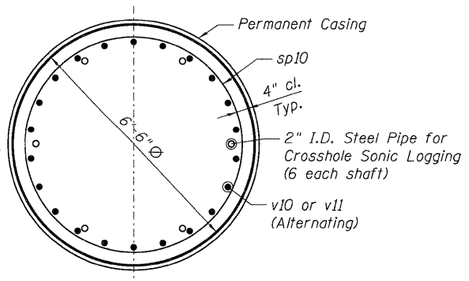
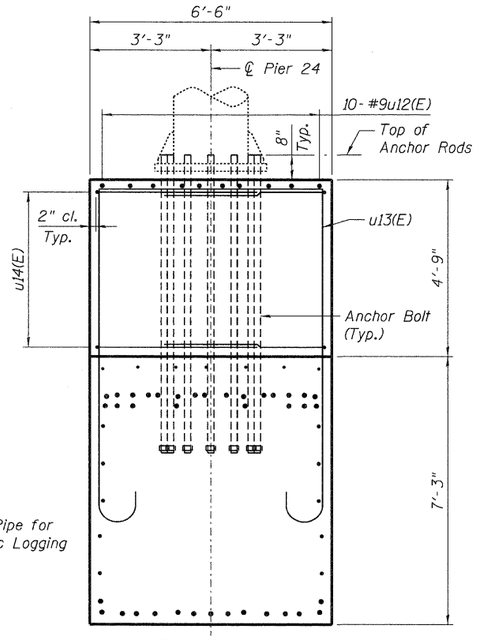


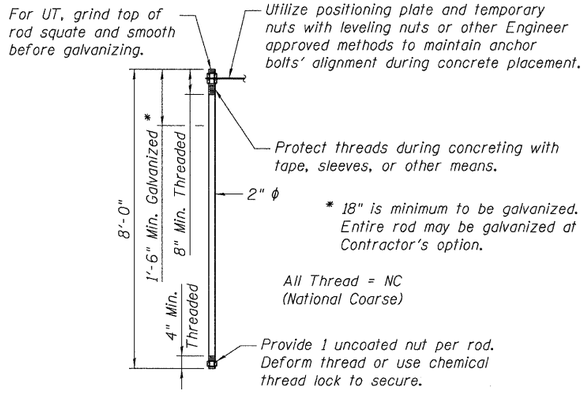
SECTION H-H



SECTION J-J



SECTION L-L



SIGN STRUCTURE ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum*) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, ½" ø 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Furnishing and Erecting Structural Steel (Pounds). Anchor rods, nuts and positioning plate shall be paid for as Furnishing and Erecting Structural Steel (Pounds).

NOTES:

1. Work this sheet with Shts. S-79 & S-81.
2. The cost of steel pipes, pipe caps and couplers for crosshole sonic logging shall be included in Drilled Shaft in Soil and Drilled Shaft in Rock.
3. v(E) bars in columns shall be placed as shown to provide space for p10(E) bars in cap.
4. For Anchor Bolt and bearing details, see Sht. S-74.
5. Sign structure to be furnished and installed in future contract. Anchor rods and conduit to be installed in this contract.

...\082\0318-CONN-05-001-PLDGN, ...\082\0318-CONN-99-001-SIG.DGN
5-03-2010, 10:49:58 BDMONTAGUE \\FS-0044-VAN\VOL1\D-TRANS_87\2282\20869-001\STRUCT\CAD\01 DESIGN\082\0318\SHEET\082\0318-CONN-05-005-SHT-PLDGN

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - MDB	REVISED -
		DRAWN - MDB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - TCU	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION OVER
NS, TRRA, MCT AND INDUSTRIAL DR.

PIER 24 DETAILS

SCALE: | SHEET NO. S-80 OF S-111 | STA. 134+22.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	190
SN 082-0318 (EB) & 0319 (WB)		CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		