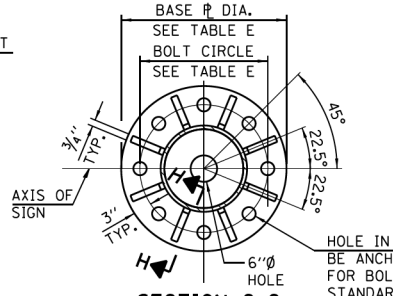


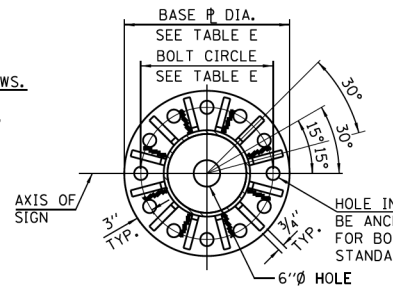
PROVIDE 8" x 4 1/2" COVER. OUTSIDE CORNERS = 2 1/4" RADIUS. PROVIDE 4-3/8" Ø HOLES IN COVER FOR 1/4" - 20 ROUND HEAD HOT DIP GALVANIZED OR STAINLESS STEEL MACHINE SCREWS. (SEE COVER DETAILS.)

DETAIL 6
 * BENT BARS MAY BE BUTT WELDED TOP AND BOTTOM OR BOTTOM ONLY. IN LIEU OF FABRICATED HANDHOLE FRAME AS SHOWN, MAY CUT FROM 2" PLATE (ROLLING DIRECTION VERTICAL). ALL CUT FACES TO BE GRIND TO ANSI ROUGHNESS OF 500 µIN OR LESS.

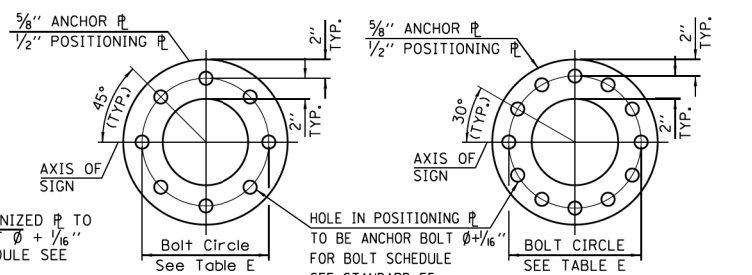
** BUTT WELDED JOINT IN POST IS ONLY ALLOWED FOR POST HEIGHTS (H) OVER 20 FT. IN LENGTH. IF USED, WELD PROCEDURE MUST BE PREAPPROVED BY ENGINEER AND JOINT SHALL RECEIVE 100% RT OR UT (TENSION CRITERIA) AT CONTRACTOR'S EXPENSE.



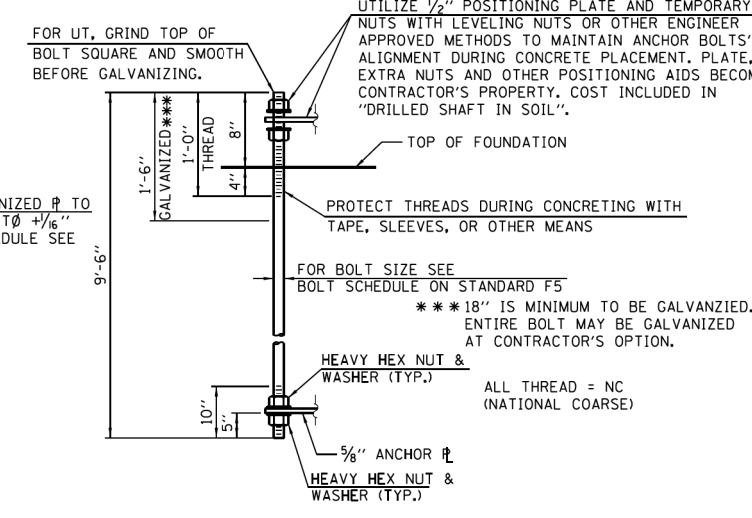
SECTION G-G
(TRUSS 15-D, SEE TABLE E)



SECTION G1-G1
(TRUSS 20-D THRU 50-D, SEE TABLE E)

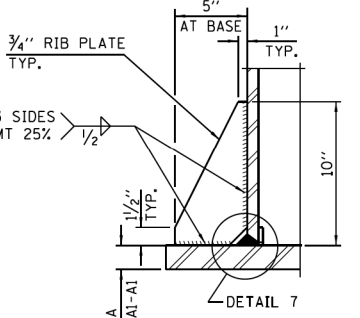


POSITIONING Ø / ANCHOR Ø
(TRUSS 15-D, SEE TABLE E) **POSITIONING Ø / ANCHOR Ø**
(TRUSS 20-D THRU 50-D, SEE TABLE E)

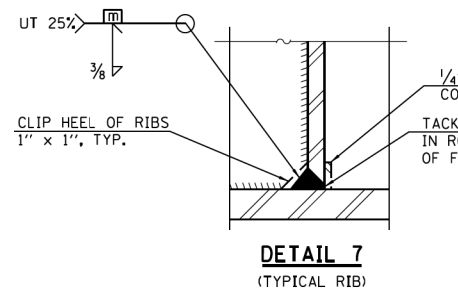


ANCHOR BOLT DETAIL

NOTE:
 ANCHOR BOLTS SHALL CONFORM TO AASHTO M314 OR ASTM F 1554 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 BOLTS. 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 BOLT SHALL BE ULTRASONICALLY TESTED (UT) BY A LEVEL II OR III INSPECTOR, QUALIFIED IN ACCORDANCE WITH ANSI GUIDELINES, USING A STRAIGHT BEAM, 1/2" Ø 3.5 MHZ. TRANSDUCER, TO INSURE NO REJECTABLE FLAWS EXIST IN THE UPPER 18" (TENSION CRITERIA). COST OF TESTING INCLUDED IN DRILLED SHAFT IN SOIL.



SECTION H-H



DETAIL 7
(TYPICAL RIB)

TABLE E: BASE PLATE DETAIL

TRUSS TYPE	POST OUTSIDE DIAMETER	BASE PLATE		BOLT CIRCLE
		DIAMETER	SECTION	
15-D	16"	28"	A-A	22"
20-D	20"	32"	A1-A1	26"
25-D	24"	36"	A1-A1	30"
30-D	28"	40"	A1-A1	34"
35-D	32"	44"	A1-A1	38"
40-D	36"	48"	A1-A1	42"
45-D	38"	50"	A1-A1	44"
50-D	40"	52"	A1-A1	46"

APPROVED: *Paul Kovacs* CHIEF ENGINEER DATE 2-7-2012

Illinois Tollway
Open Roads for a Faster Future

OVERHEAD SIGN STRUCTURE
 CANTILEVER TYPE, STEEL

STANDARD F4-01

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
 312.228.0100
 www.bbandainc.com

FILE NAME = \$FILES\$	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = H=1"=10' V=1"=5'	CHECKED - RGR	REVISED -
	PLOT DATE = 6/18/2012	DATE - 6/19/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOLLWAY STANDARD DRAWING

SCALE: SHEET NO. N/A OF N/A SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1-R-1	LAKE	677	662D
CONTRACT NO. 60L77				
ILLINOIS FED. AID PROJECT				

S:\1101\95-CADD\60L77 IL 175\60L77 Sheets\0160L77-INT-151TH.dwg