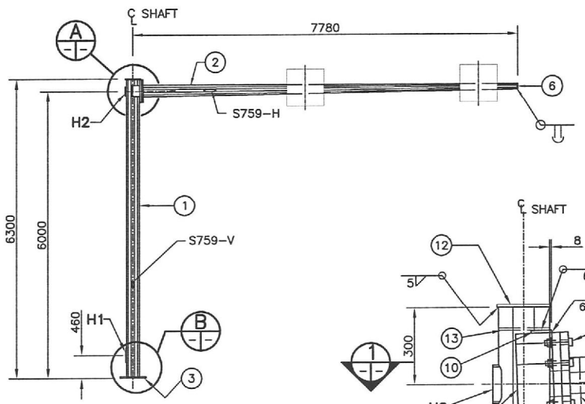
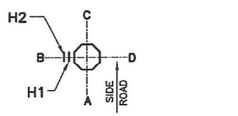
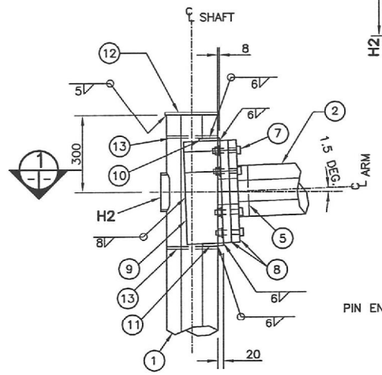


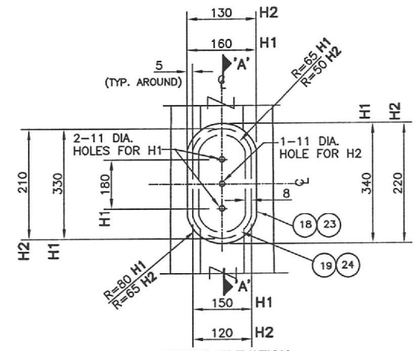
ELEVATION



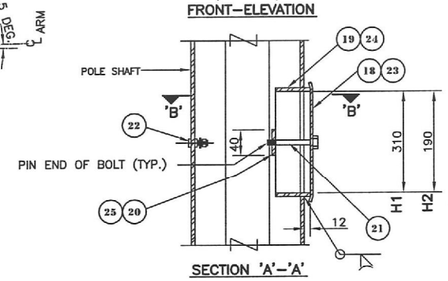
ORIENTATION



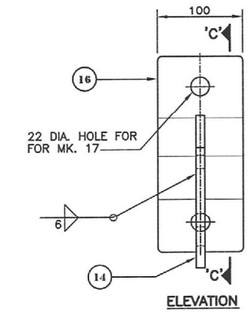
DETAIL A



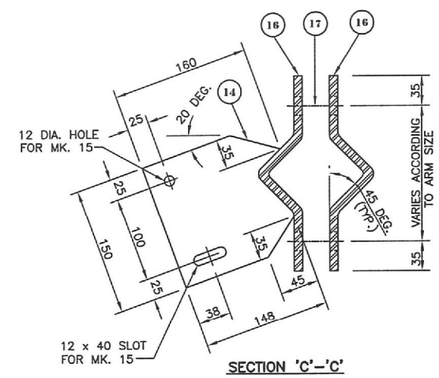
FRONT-ELEVATION



SECTION 'A'-'A'

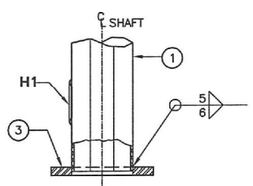


ELEVATION

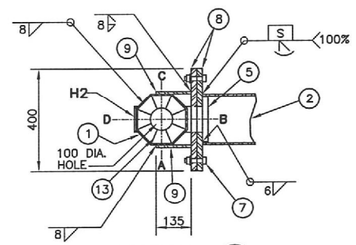


SECTION 'C'-'C'

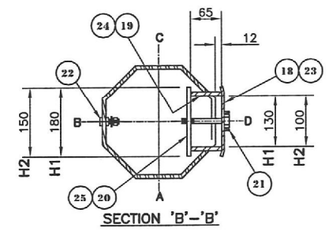
SIGN MOUNTING BRACKET DETAIL
FOR SIGN BOXES (NONE REQUIRED)



DETAIL B

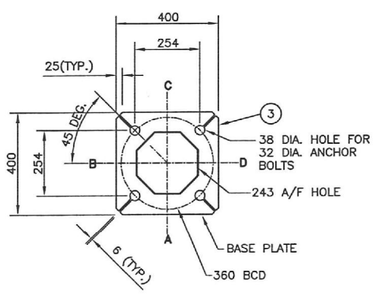


SECTION 1

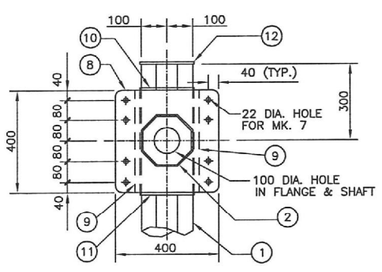


SECTION 'B'-'B'

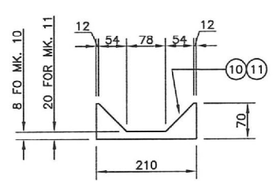
HANDHOLE-MARK H1 & H2



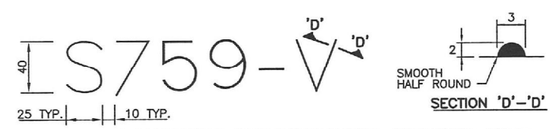
BASE PLATE DETAIL



FLANGE PLATE DETAIL



GUSSET PLATE
MARK 10 & 11



SECTION 'D'-'D'

TYPICAL STRUCTURE IDENTIFICATION NUMBER SIZE

BILL OF MATERIALS

MK.	QTY.	DESCRIPTION
1	1	OCTAGONAL SHAFT 240 A/F TO 200 A/F x 6.35
2	1	OCTAGONAL ARM 200 A/F TO 130 A/F x 6.35
3	1	BASE PLATE 40 THICK
4		
5	1	BACKUP STRIP 40 x 6
6	1	END PLATE 130 A/F OCTAGONAL 6 THICK
* 7	8	19 DIA. A325 BOLTS GALVANIZED
8	2	FLANGE PLATE 400 x 400 x 32
9	2	SIDE GUSSET PLATE 20 x 400 x 135
10	1	TOP GUSSET PLATE 10 THICK
11	1	BOTTOM GUSSET PLATE 10 THICK
12	1	COVER PLATE 210 DIA x 10 THICK
13	2	OCTAGONAL INTERIOR GUSSET PLATE 8 THICK
		SIGN MOUNTING BRACKETS (NONE REQ'D.)
14	4	BRACKET PLATE 10 THICK
* 15	8	10 DIA. BOLTS S/S (TYPE 316)
16	8	CLAMP PLATE 10 THICK
* 17	8	20 DIA. BOLT S/S (TYPE 316)
		HANDHOLE MARK H1
18	1	COVER PLATE 11 GA. x 160x 340 (A569)
19	1	REINFORCING RING 8 x 65 x 830
* 20	2	CLAMP BAR 6 x 40 x 180
* 21	2	10 DIA. x 140 BOLT S/S (TYPE 316)
* 22	1	GROUND STUD ASSEMBLY 10 DIA. x 40
		HANDHOLE MARK H2
23	1	COVER PLATE 11 GA. x 130 x 220 (A569)
24	1	REINFORCING RING 8 x 65 x 555
* 25	1	CLAMP BAR 6 x 40 x 150
* 21	1	10 DIA. x 140 BOLT S/S (TYPE 316)
* 22	1	GROUND STUD ASSEMBLY 10 DIA. x 40

NOT USED (MK. 15, MK. 17)

*NOTES:

1. MARK NO. 7, 15 & 17 C/W NUT AND WASHER.
2. MARK NO. 20 & 25 C/W 8-DIA. PUNCHED 10 N.C. TAPPED AT THE CENTER OF PLATE.
3. MARK NO. 21 C/W CUP WASHER.
4. MARK NO. 22 C/W 2-10 DIA. HEX NUT, 2-TERMINAL WASHER. & 1-LOCKWASHER

GENERAL NOTES

1. DESIGN DATA
   AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 5TH EDITION, 2009.

   DESIGN WIND LOAD = 1.44 kPa (30 PSF)

   DESIGN ICE LOAD = 0.15 kPa (3 PSF)
2. ALL MATERIALS SHALL BE CSA G40.21 – 350W STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
3. ALL MATERIALS EXCEPT STAINLESS STEEL AND ALUMINUM SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-09 TO A MIN. NET RETENTION OF 600 g/m²
4. ALL AREAS OF DAMAGED GALVANIZING SHALL BE REPAIRED WITH SELF-FLUXING LOW TEMPERATURE, ZINC BASED ALLOY ROD OR SPRAY-ON COATING CALLED "ZINGA".
5. NEW STRUCTURE TO BE INSTALLED ON NEW CONCRETE PILE FOUNDATION AND ANCHOR BOLTS.
6. NEW 50 mm. MAX. GROUT PAD TO BE PROVIDED AFTER INSTALLING THE STRUCTURE.
7. SIGNS
   TWO SIGNS (PLATES)
   MAXIMUM SIZE 915 x 915 mm. SUPPLIED AND INSTALLED (C/W BRACKETS) BY THE CITY OF WINNIPEG TRAFFIC SERVICES BRANCH.

NOTES

1. PROVIDE "RAISED" IDENTIFICATION NO. WITH WELDING ELECTRODE FOR THE SIGN STRUCTURE.
2. GRIND ALL SHARP POINTS AND EDGES.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	12/01/30	JGW

DILLON CONSULTING

DESIGNED BY	CDW	CHECKED BY	MBL
DRAWN BY	JGW	APPROVED BY	
HOR. SCALE:	AS SHOWN	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	AS SHOWN		
DATE	2012/01/30	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
B.L. LAU
1/30/2012
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.

THE CITY OF WINNIPEG
Winnipeg
PUBLIC WORKS DEPARTMENT
TRANSPORTATION ENGINEERING DIVISION

INKSTER BOULEVARD
WIDENING PROJECT
BROOKSIDE BOULEVARD TO
KEEWATIN STREET

CITY DRAWING NUMBER
S759-11-04

SHEET 8 OF 8

STRUCTURE NO. S759
FABRICATION DETAILS