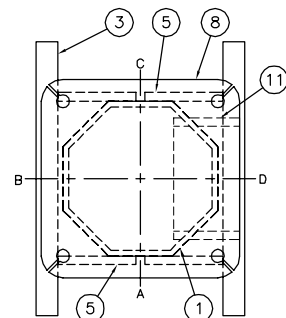
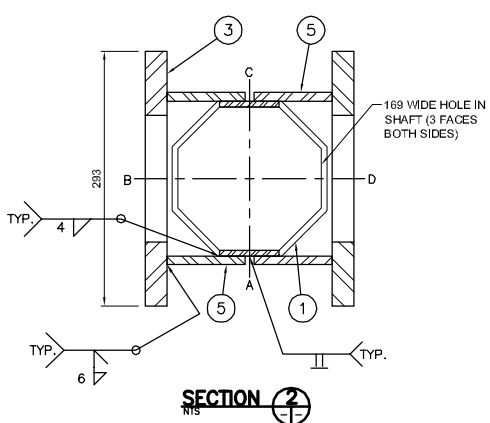


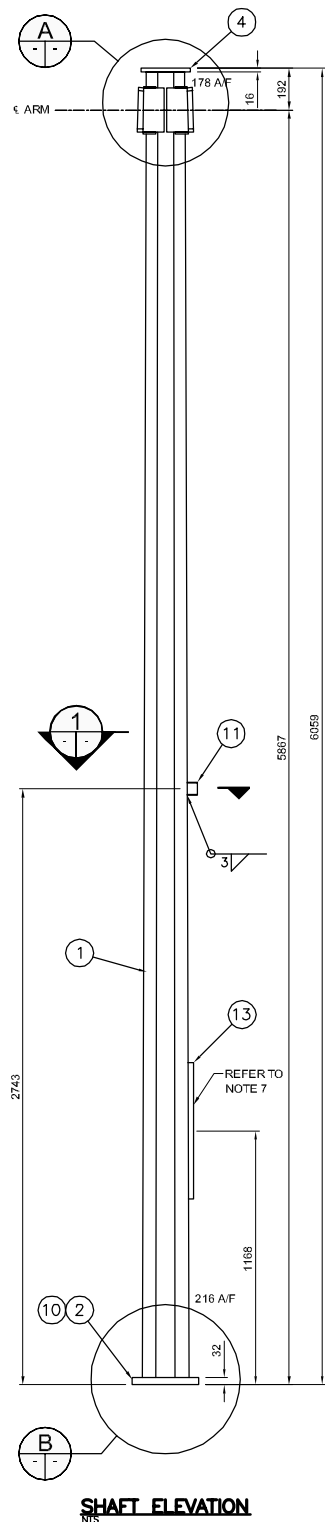
**ORIENTATION**



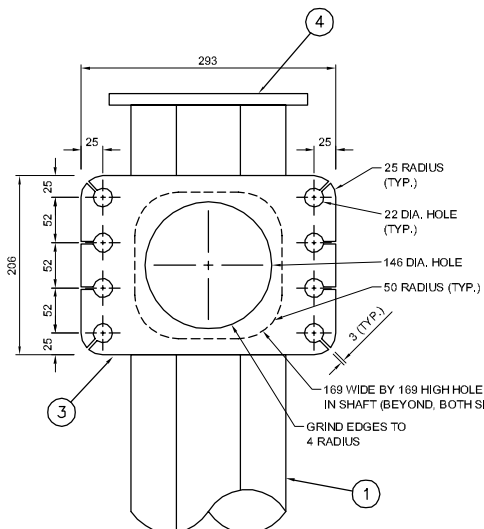
**PLAN-TOP VIEW**



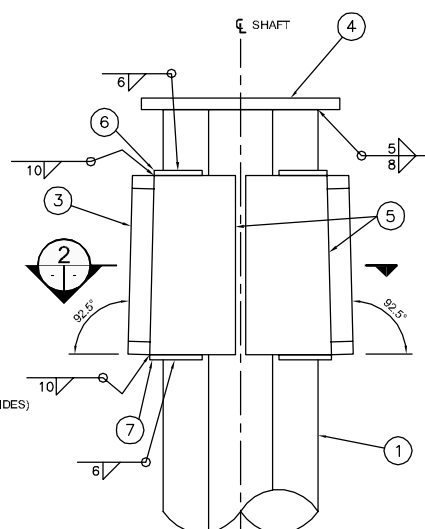
**SECTION 2-2**



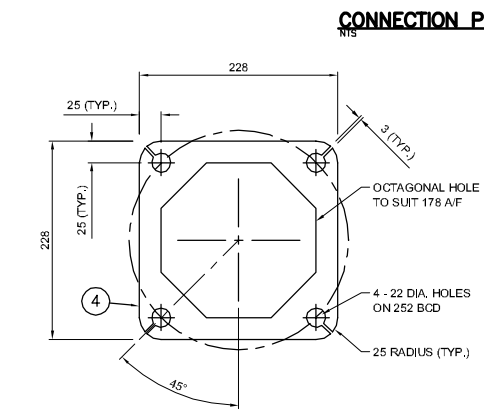
**SHAFT ELEVATION**



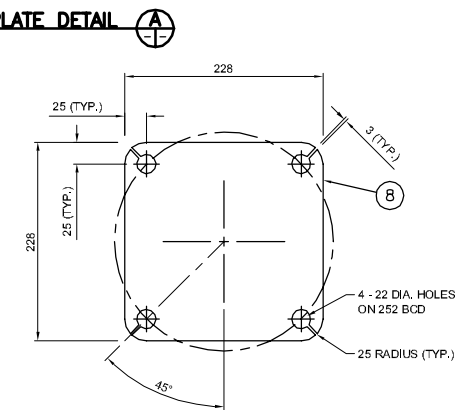
**FRONT VIEW**



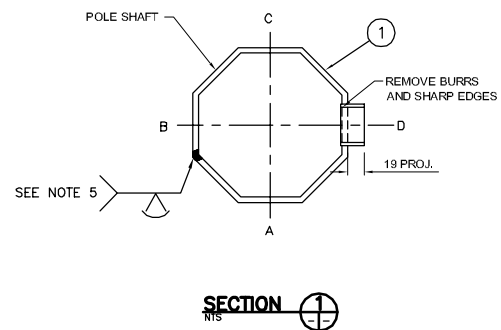
**SIDE VIEW**



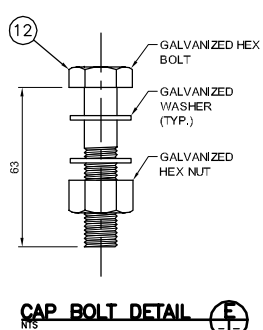
**EXTENSION FLANGE PLATE DETAIL**



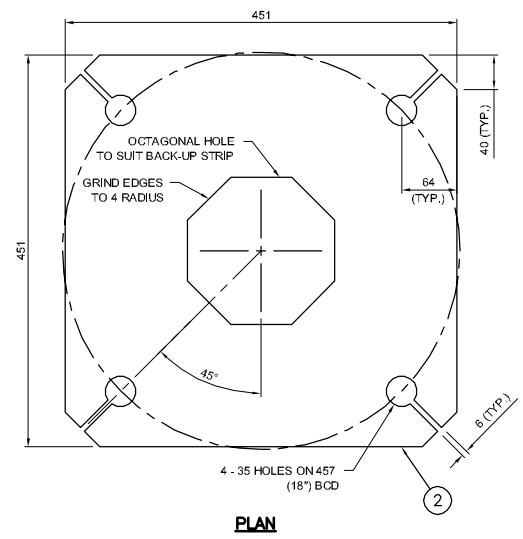
**EXTENSION FLANGE CAP PLATE DETAIL**



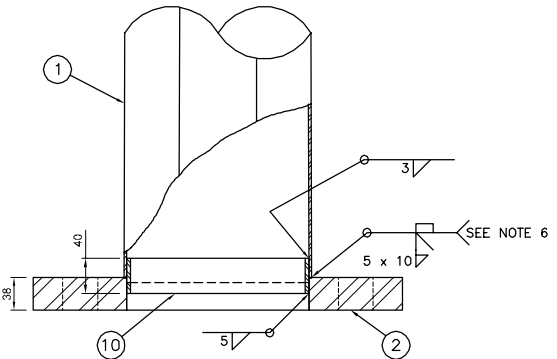
**SECTION 1-1**



**CAP BOLT DETAIL**



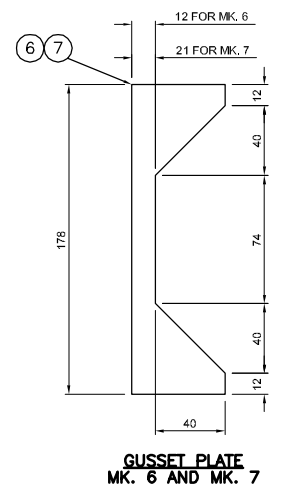
**PLAN**



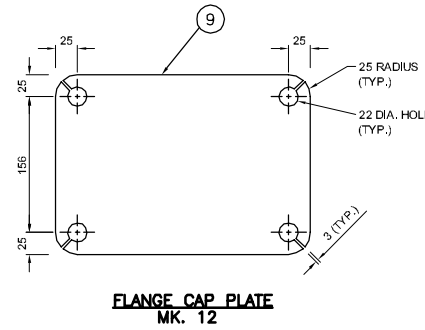
**ELEVATION  
BASE PLATE DETAIL**

**NOTES:**

1. ALL MATERIALS, EXCEPT STAINLESS STEEL ITEMS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-09 (PLUS LATEST REVISIONS) WITH NET RETENTION OF 610 g/m<sup>2</sup>.
2. PROVIDE RAISED IDENTIFICATION NUMBER WITH WELDING ELECTRODE AS PER SPECIFICATION, STRUCTURE TYPE CODE = DM.
3. SHIP WITH EXTENSION FLANGE CAP PLATE & FLANGE CAP PLATE C/W NUTS AND WASHERS INSTALLED.
4. GRIND ALL SHARP POINTS AND EDGES.
5. LONGITUDINAL SEAM WELD SHALL HAVE 60% MINIMUM PENETRATION EXCEPT WITHIN 150 mm OF BASE PLATE AND 400 mm OF EXTENSION FLANGE PLATE SHALL BE COMPLETE PENETRATION.
6. EXTERIOR WELD JOINING SHAFT TO BASE PLATE SHALL BE AN UNEQUAL LEG COMPLETE PENETRATION WELD WITH THE LONG LEG OF THE WELD ALONG THE SHAFT, TERMINATING AT 30' FROM THE SHAFT'S SURFACE.
7. PROVIDE ACCESS PANEL IN ACCORDANCE WITH SHEET 17.



**GUSSET PLATE  
MK. 6 AND MK. 7**



**FLANGE CAP PLATE  
MK. 12**



**REDUCED DRAWING  
N.T.S.**

**BILL OF MATERIALS**

MK. NO.	QTY. REQ'D.	DESCRIPTION	SIZE	MATERIAL	REMARKS	LINE NO.
<b>DOUBLE MEDIUM DUTY SHAFT - DM</b>						
1	1	OCTAGONAL SECTION SHAFT	216 A/F - 178 A/F x 4.554	CSA G40.21 350W		2
2	1	BASE PLATE	38 x 451 x 451	CSA G40.21 300W		3
3	2	ARM FLANGE PLATE	25 x 206 x 293	CSA G40.21 300W		4
4	1	EXTENSION FLANGE PLATE	16 x 228 x 228	CSA G40.21 300W	SEE DETAIL C	5
5	4	SIDE PLATES	6 x 103 x 206	CSA G40.21 300W		6
6	2	TOP GUSSET PLATE	10 x 52 x 178	CSA G40.21 300W		7
7	2	BOTTOM GUSSET PLATE	10 x 57 x 178	CSA G40.21 300W		8
8	1	EXTENSION FLANGE CAP PLATE	6 x 228 x 228	CSA G40.21 300W	SEE DETAIL D	9
9	1	FLANGE CAP PLATE	6 x 206 x 293	CSA G40.21 300W		10
10	1	BACK-UP STRIP PLATE	4.554 x 40	CSA G40.21 350W		11
11	1	PIPE PENETRATION (1 1/2") C/W PLUG	48 O.D. X 25	ASTM A53 GR. B SCH. 40	REMOVE BURRS AND SHARP EDGES	12
12	8	CAP BOLTS	19 (3/4") DIA. x 63	ASTM A325	SEE DETAIL E	13
						14
13	1	ACCESS PANEL			SEE NOTE 7	15
						16
14	1	BREAKAWAY BASE ASSEMBLY			SUPPLIED BY OTHERS	

APPROXIMATE TOTAL MASS = 216 kg

NO.	REVISIONS	DATE	BY	DATE
4	REVISED BY DILLON CONSULTING	1/10/14	CDW	
3	REVISED BY DILLON CONSULTING	8/28/13	CDW	
2	REVISED BY DILLON CONSULTING	7/25/13	CDW	
1	ISSUED BY DILLON CONSULTING	1/14/13	CDW	

DESIGNED BY CDW  
DRAWN BY JGW  
CHECKED BY SSR  
APPROVED BY -  
HOR. SCALE NTS  
VERTICAL NTS  
RELEASED FOR CONSTRUCTION  
DATE

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
ORIGINAL STAMPED BY  
S.S. RIHAL  
JAN. 14, 2013  
REGISTERED PROFESSIONAL ENGINEER  
CONSULTANT PROJECT NUMBER  
12-5954

**THE CITY OF WINNIPEG  
PUBLIC WORKS DEPARTMENT**  
Winnipeg  
CITY DRAWING NUMBER  
N/A  
SHEET 12 OF 17  
CONSULTANT DRAWING NUMBER  
N/A

G:\CAD\125954\Contract\Current\LIGHT & MEDIUM SHAFT.dwg