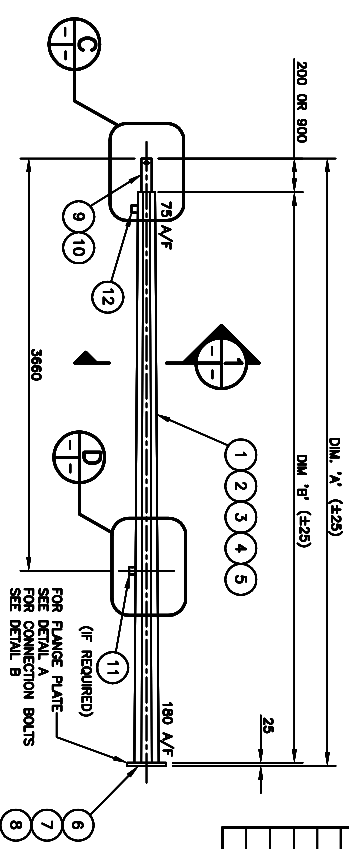


**BILL OF MATERIALS**

STOCK CODE	DESCRIPTION	DIM. 'A'	DIM. 'B'
58519	5.0 m SIGNAL ARM	4870	4870
58520	6.0 m SIGNAL ARM	5870	5870
58521	7.5 m SIGNAL ARM	7370	7170
58525	5.5 m CORRIDOR ARM	5370	4470
58527	7.0 m CORRIDOR ARM	8870	5970

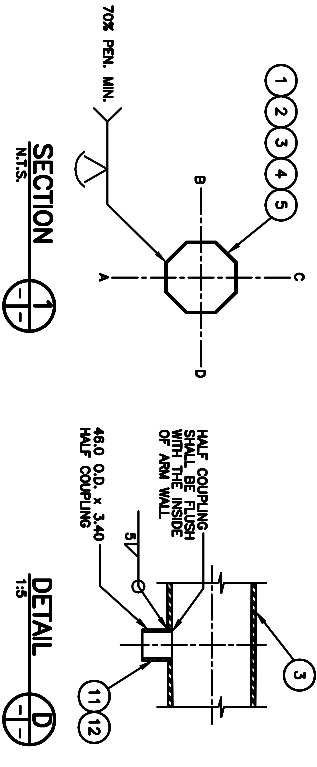


**EXTENSION ARM ELEVATION**  
SCALE: 1:20

**SECTION 2**  
SCALE: 1:5

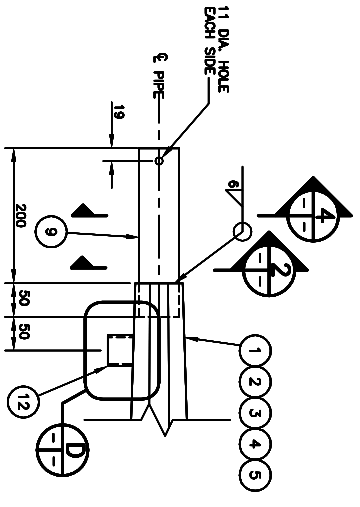
**SECTION 3**  
SCALE: 1:5

**SECTION 4**  
SCALE: 1:5

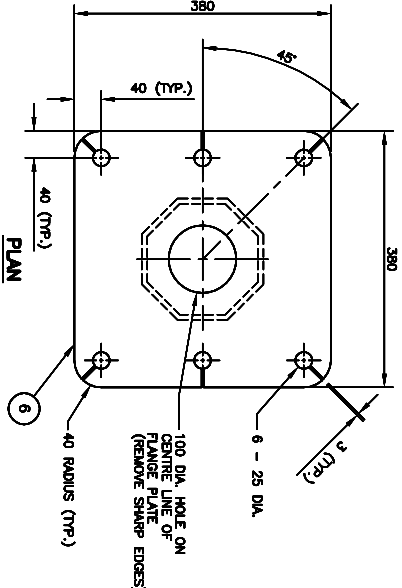


**SECTION 1**  
N.T.S.

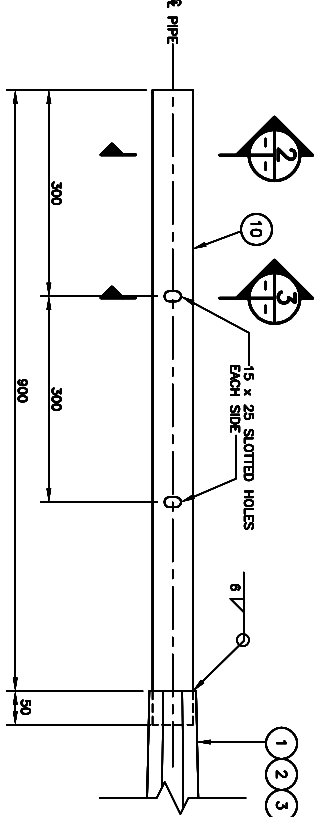
**DETAIL D**  
1:5



**SIGNAL ARM**

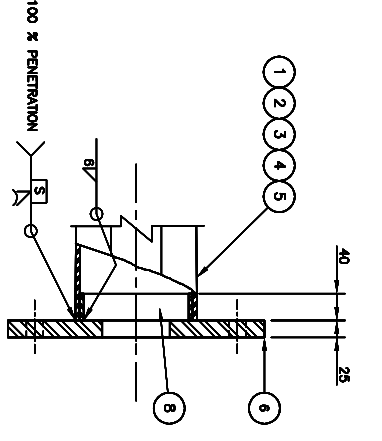


**PLAN**

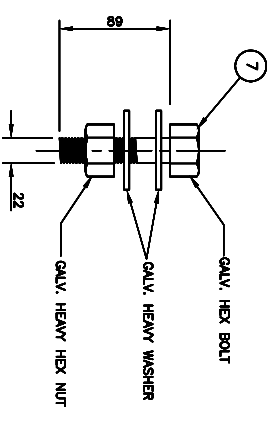


**CORRIDOR ARM**

**TENON DETAIL**  
1:5



**SECTION**



**FLANGE BOLT DETAIL**  
1:5

- NOTES:**
1. ALL MATERIALS, EXCEPT STAINLESS STEEL, TENONS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-99 (PLUS LATEST REVISIONS) WITH NET RETENTION OF 810 g/m<sup>2</sup>
  2. PROVIDE 'RAISED' STOCK CODE NUMBER WITH WELDING ELECTRODE.
  3. SHIP WITH BOLTS C/W NUTS AND WASHERS IN FLANGE.
  4. PROMOTE RAISED 'T' ON TOP OF ARM NEAR FLANGE PLATE USING WELDING ELECTRODE.
  5. GRIND ALL SHARP POINTS AND EDGES.
  6. RE-TAP THREADS AFTER HOT-DIP GALVANIZING.
  7. TO BE USED WITH MEDIUM SERIES COMBINATION CANTILEVER VERTICAL SHAFT (E-16 H).

LINE NO.	QTY.	DESCRIPTION	SIZE	MATERIAL (G40.21-M-300W U/N)	REMARKS
1	1	5.0 m LONG SIGNAL ARM (#58519)			
2	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
3	1	FLANGE PLATE	25 x 280 x 280		
4	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
5	1	BACK-UP STRIP PLATE	6 x 40 x 552		
6	1	PIPE TENON	60.3 O.D. x 3.91 x 290	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C
7	1	HALF COUPLING	48.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL D RE-TAP AFTER GALVANIZING
8	1	TENON CAP			SEE SHEET NO. S15
9	1	6.0 m LONG SIGNAL ARM (#58520)			
10	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
11	1	FLANGE PLATE	25 x 280 x 280		
12	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
13	1	BACK-UP STRIP PLATE	6 x 40 x 552		
14	1	PIPE TENON	60.3 O.D. x 3.91 x 290	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C
15	1	HALF COUPLING	48.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL D RE-TAP AFTER GALVANIZING
16	1	TENON CAP			SEE SHEET NO. S15
17	1	7.5 m LONG SIGNAL ARM (#58521)			
18	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
19	1	FLANGE PLATE	25 x 280 x 280		
20	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
21	1	BACK-UP STRIP PLATE	6 x 40 x 552		
22	1	PIPE TENON	60.3 O.D. x 3.91 x 290	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C
23	1	HALF COUPLING	48.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL D RE-TAP AFTER GALVANIZING
24	1	TENON CAP			SEE SHEET NO. S15
25	1	5.5 m LONG CORRIDOR ARM (#58526)			
26	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
27	1	FLANGE PLATE	25 x 280 x 280		
28	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
29	1	BACK-UP STRIP PLATE	6 x 40 x 552		
30	1	PIPE TENON	60.3 O.D. x 3.91 x 980	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C
31	1	7.0 m LONG CORRIDOR ARM (#58527)			
32	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
33	1	FLANGE PLATE	25 x 280 x 280		
34	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
35	1	BACK-UP STRIP PLATE	6 x 40 x 552		
36	1	PIPE TENON	60.3 O.D. x 3.91 x 980	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C
37	1	7.0 m LONG CORRIDOR ARM (#58527)			
38	1	OCTAGONAL SECTION SHAFT	180 A/F-75 A/F x 6,350		
39	1	FLANGE PLATE	25 x 280 x 280		
40	1	FLANGE BOLTS	22 DIA. x 89	ASTM A325	SEE FLANGE BOLT DETAIL B
41	1	BACK-UP STRIP PLATE	6 x 40 x 552		
42	1	PIPE TENON	60.3 O.D. x 3.91 x 980	SCH-40 ASTM A53 GR. B	SEE TENON DETAIL C

DATE	BY	DESCRIPTION

**TRAFFIC SIGNAL AND PEDESTRIAN CORRIDOR STRUCTURES**

**MEDIUM SERIES COMBINATION CANTILEVER**

5.0 m, 6.0 m, AND 7.5 m SIGNAL ARM  
5.5 m AND 7.0 m CORRIDOR ARM

RELEASED FOR CONSTRUCTION  
BY: \_\_\_\_\_

**ARM FLANGE PLATE DETAIL**  
1:5

**FLANGE BOLT DETAIL**  
1:5

**APREGN**  
Certificate of Authorization  
Dillon Consulting Limited (MB)  
No. 1789 Date: 04/03/2012

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

**DILLON CONSULTING**  
CONSULTANT PROJECT NO. 11-5296

**S.S. RIHAL**  
REGISTERED PROFESSIONAL ENGINEER  
PROVINCE OF MANITOBA  
SINCE 1988  
04/03/2012

**Manitoba**  
Infrastructure and Transportation  
Traffic Engineering

DESIGN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

COMPONENT NO. E-018 J  
SHEET NO. SB