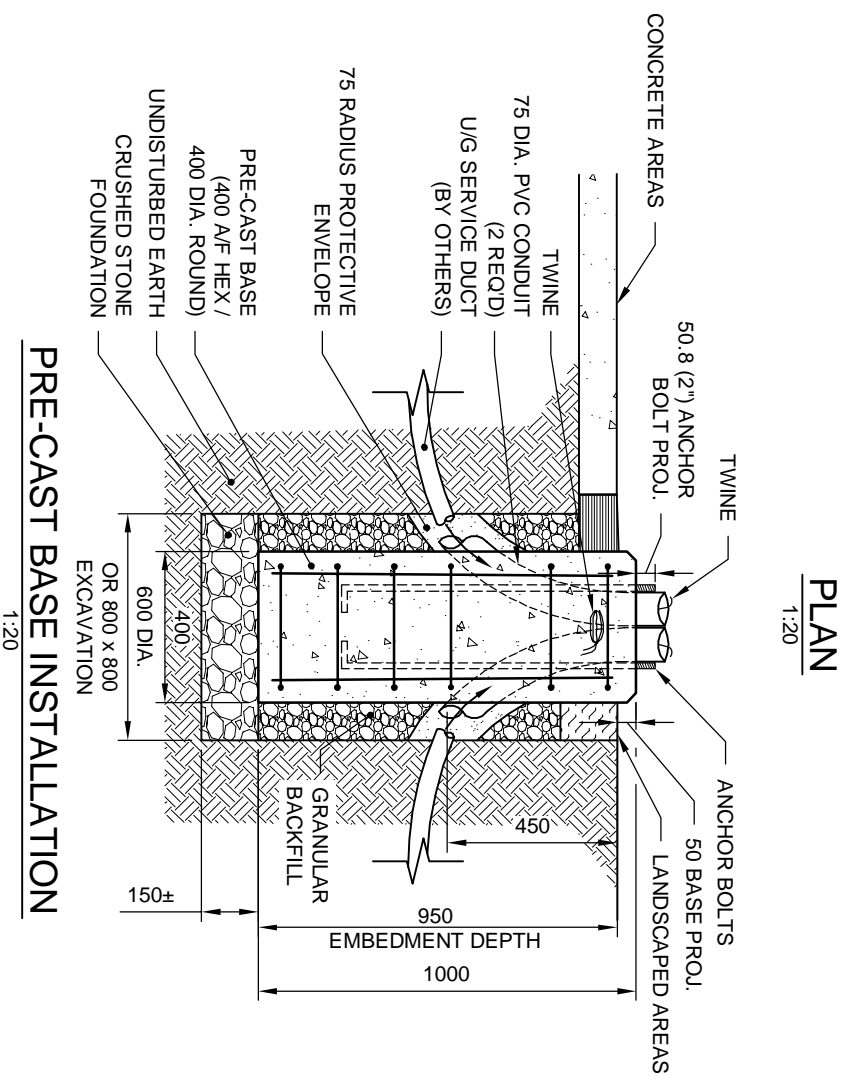
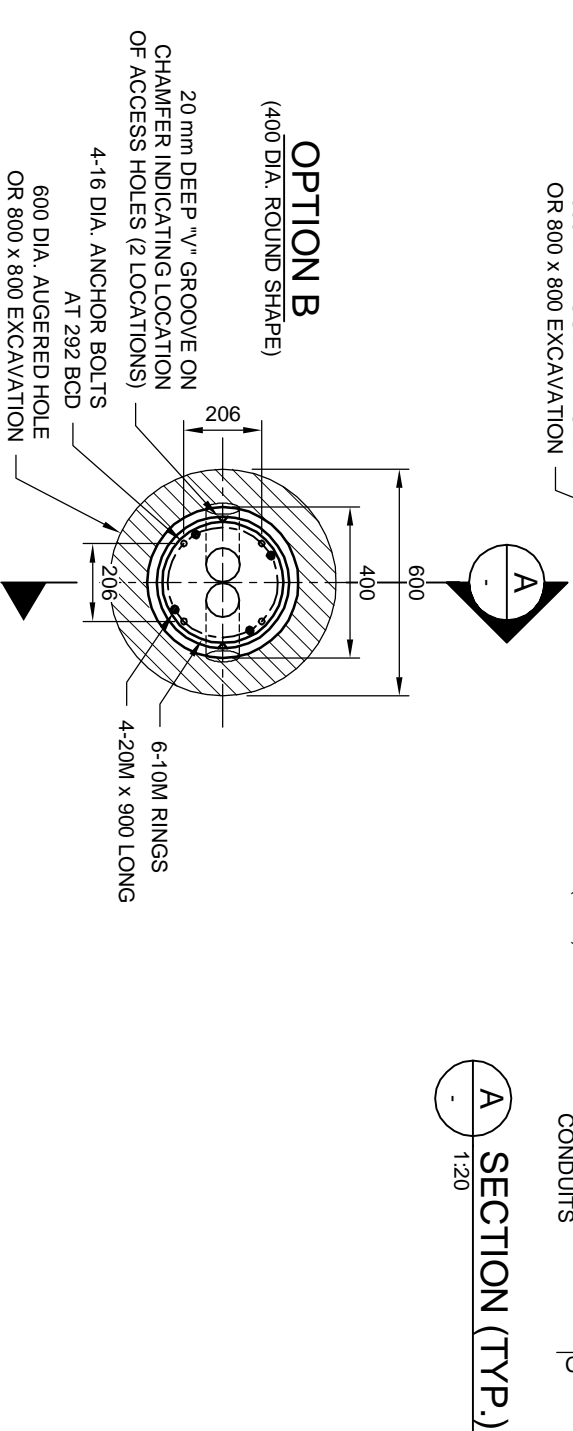
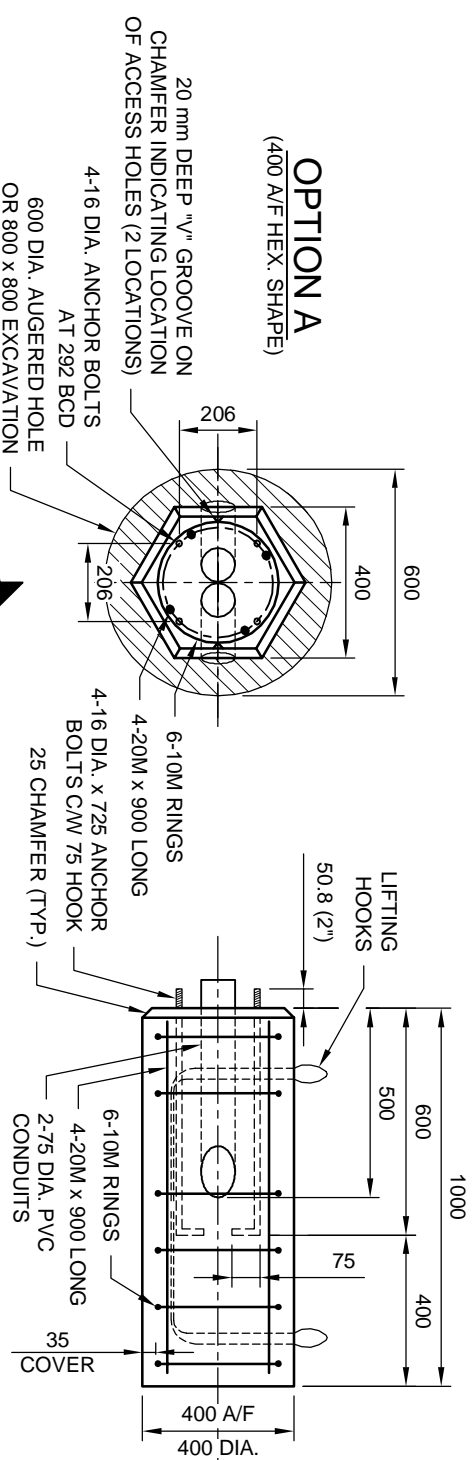


# **APPENDIX 'C'**

## **PRE-CAST TYPE PM BASE DETAIL**



**NOTES:**

**ANCHOR BOLTS**

- 4-16 mm DIA. ANCHOR BOLTS 725 LONG CW 75 mm HOOK
- CAN/CSA G40.21-GR.300W
- TOP 125 mm THREADED UNC CLASS 2A
- HOT DIP GALVANIZED FULL LENGTH TO ASTM A153 CLASS C
- BCD = BOLT CIRCLE DIAMETER TO CENTER OF BOLT GROUP
- BOLTS SHALL BE HELD IN PLACE ACCURATELY WITH A STEEL TEMPLATE.
- THREADED PORTION OF ANCHOR BOLTS SHALL BE PROTECTED FROM FOULING PRIOR TO CONCRETE POUR.

**PRE-CAST CONCRETE BASE**

- CAN/CSA SPECIFICATION: CAN3-A23.4-09
- CEMENT: TYPE HS SULPHATE RESISTANT, S2 EXPOSURE
- CONCRETE STRENGTH: 35 MPa AT 28 DAYS
- MAXIMUM AGGREGATE: 20 mm, AIR CONTENT 3-6%
- 25 mm CHAMFER ON ALL EXPOSED CONCRETE EDGES.
- PVC CONDUITS: 75 (3'') DIA. LONG RADIUS (24'') SWEEP ELBOW (90°)
- CONDUITS SHALL BE HELD SECURELY IN CENTER OF BASE PRIOR TO CONCRETE POUR.
- CUT CONDUITS FLUSH AT TOP AND SIDES OF CONCRETE BASE AFTER CURING.
- IDENTIFY THE NUMBER "SD-XXX (1.0 m)" ON THE TOP OF THE BASE.
- LIFTING HOOKS: 5 mm 7 x 19 STAINLESS STEEL CABLE
- WEIGHT OF PRE-CAST BASE: 302 kg

**REINFORCING STEEL**

- CAN/CSA G30.18-GR.400W
- ALL BARS TO BE HOT DIP GALVANIZED.
- CLEAR COVER 35 mm

**BACKFILL MATERIAL**

- CRUSHED STONE FOUNDATION: TYPE 3 AS PER CW 2030-R7 2.1.2 AND 2.1.5.
- BACKFILL: GRANULAR BACKFILL TYPE 2 AS PER CW 2030-R7 2.1.2 TO 2.1.5.

**INSTALLATION**

- MARK THE CENTER AND OFFSET LOCATIONS BEFORE EXCAVATING.
- OPEN CUT OR SOFT DIG/AUGER DRILL EXCAVATION.
- EXCAVATION DEPTH EQUALS THE EMBEDMENT DEPTH PLUS 150 mm ± FOR CRUSHED STONE FOUNDATION.
- AUGER HOLE 600 DIA. OR EXCAVATION 800 x 800.
- PLACE, LEVEL, AND COMPACT CRUSHED STONE FOUNDATION TO EDGE OF EXCAVATION.
- VERIFY ORIENTATION OF PRE-CAST BASE ANCHOR BOLTS AND CONDUIT HOLES TO SITE LAYOUT DRAWINGS.
- SET BASE UNIT WHILE IN A PLUMB ORIENTATION INTO FINAL LOCATION (DO NOT TILT UP).
- SET UNIT TO PROPER ELEVATION, ±10 mm.
- BRACE BASE AS REQUIRED TO MAINTAIN UNIT IS LEVEL, TRUE, AND PLUMB UNTIL BACKFILL HAS BEEN PLACED AND CONSOLIDATED.
- PLACE AND COMPACT GRANULAR BACKFILL UNIFORMLY AROUND PERIMETER OF THE BASE IN 150 mm LIFTS.
- PAUSE BACKFILLING AT BOTTOM OF CONDUIT TRENCH, THEN INSTALL BELOW GRADE ELECTRICAL CONNECTIONS.
- FINISH BACKFILLING AND COMPACTING IN 150 mm LIFTS TO THE ROUGH GRADE OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- REMOVE SOILS OR STAINS FROM THE EXPOSED CONCRETE.

DIMENSIONS ARE IN MILLIMETRES (UNLESS OTHERWISE NOTED)

**Revisions**

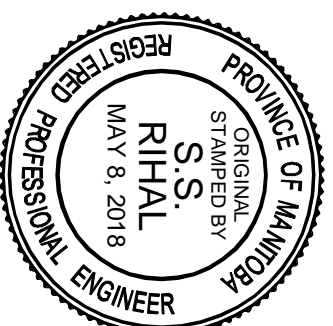
No.	Date	Description	By
2	05/08/18	GENERAL REVISIONS BY DILLON CONSULTING	KNL
1	04/06/18	DESIGNED BY DILLON CONSULTING	KNL

Designed By:	KNL	Drawn By:	KNL
Checked By:	SSR	Date:	04/06/2018
Approved:			

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

Reference Spec. No. CW XXXX

PRE-CAST BASE – 1.0 m  
TYPE PM – CYCLIST / PUSHBUTTON



**APEGN**  
Certificate of Authorization  
Dillon Consulting Limited (MB)  
No. 1789 Date: 04/06/2018

**PRE-CAST BASE INSTALLATION**

1:20

**A SECTION (TYP.)**

1:20

**PLAN**

1:20