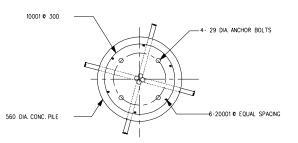
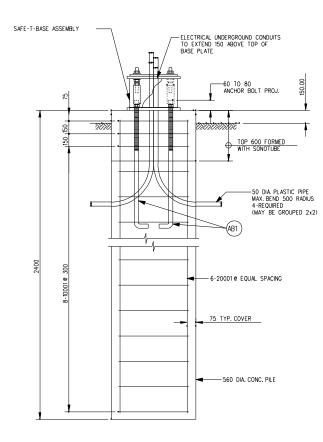


ANCHOR BOLTS LAYOUT



PLAN / CONCRETE SECTION



ELEVATION

FOUNDATION DETAIL

GENERAL NOTES:

CONCRETE FOUNDATION PILES

- PRIOR TO DRILLING PILES, CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SURFACE OR SUBSURFACE UTILITIES.
- DRILL PILES TO INDICATED DEPTHS ENSURING THAT SHAFTS ARE DRY AND FREE OF DEBRIS UNTIL CONCRETE IS PLACED.
- CONCRETE

PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT, WATER, AND AIR ENTRAINING AGENT SHALL BE SUCH AS TO YIELD CONC. HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS

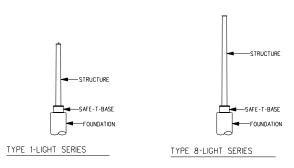
- i) MINMUM COMPRESSIVE STRENGTH AT 28 DAYS 35 MPa
 ii) MAXMUM WATER/CEMENT RATIO = 0.45
 ii) MINMUM CEMENT CONTENT 340 kg/m 3
 iv) SLUMP 80 ± 20 mm NOMINAL
 iv) ALGORECATE: 40 mm NOMINAL
 iv) AIR CONTENT: 4.0 TO 7.0 PERCENT
 vii) CEMENT TYPE 50 SULPHATE RESISTANT CEMENT

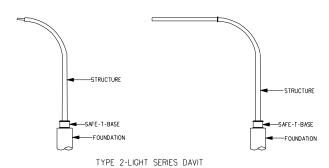
SHOULD COMPATIBLE SUPERPLASTIZING ADMIXTURES BE APPROVED BY THE ENGINEER, THE SLUMP AFTER ADDITION OF THE SUPERPLASTICIZER SHALL BE 170 \pm 40 mm.

- NOTIFY THE OWNER AND TESTING FIRM A MINIMUM OF TWENTY FOUR HOURS PRIOR TO COMMENCEMENT OF CONCRETE OPERATIONS.
- 5. CAST FOUR CONCRETE TEST CYLINDERS FOR EVERY 50 CUBIC METRES OR LESS .
 ONE CYLINDER TO BE CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
- REINFORCING STEEL TO BE GRADE 400W, DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT CONFORMING TO CSA G30.18.
- ANCHOR BOLTS, NUTS AND WASHERS WILL BE SUPPLIED BY THE DEPARTMENT AND SET BY CONTRACTOR.
- 8. THE ANCHOR BOLTS SHALL BE ALIGNED WITH A TOP SETTING TEMPLATE MATCHING THE BOLT HOLE LAYOUT. THE SETTING TEMPLATE SHALL BE HELD IN PLACE BY THE NUTS SUPPLED WITH THE ANCHOR BOLTS, PLACEMENT OF ANCHOR BOLTS WITHOUT THE SETTING TEMPLATE WILL NOT BE PERMITTED.

TOP SETTING TEMPLATE

- * TEMPORARY STEEL TEMPLATE LOANED TO THE CONTRACTOR BY THE DEPARTMENT.
- AFTER COMPLETION OF CONCRETE PILE FOUNDATION WORKS, THE CONTRACTOR SHALL CLEAN THE TEMPLATE BY SANDBLASTING AND RETURN IT TO THE DEPARTMENT.
- IF THE TEMPLATE IS DAMAGED DURING CONSTRUCTION DUE TO NECLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A NEW 10 mm THICK STEEL TEMPLATE TO THE DEPARTMENT AT IN: OWN EXPENSE.
- 9. SOILS INFORMATION AT SITE IS AVAILABLE FROM THE OWNER.

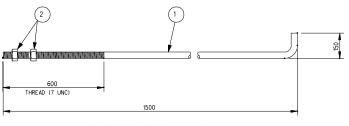




STRUCTURES FOR FOUNDATION TYPE F1

BILL OF MISCELLANEOUS METAL

MK. NO.	QTY. REQ'D.		SIZE	MATERIAL	REMARKS	LINE NO.
1	4	ANCHOR BOLT	29 (1 // ₈ ") DIA. × 1650	G40.21-M-300W GALV. FULL LENGTH	SEE DETAIL BELOW	1
2	8	HALF NUTS	29 (1 // ₈ ") DIA.	ASTM A194 GRADE 2H		2
						3
						4
						5

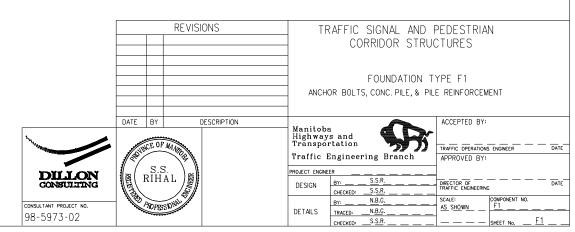


ANCHOR BOLT ASSEMBLY MK. AB1 (STOCK CODE NO. 7558)

NOTES:

- 1. ANCHOR BOLTS SHALL BE SOLID ROUNDS G40.21-M-300W.
- ALL PARTS OF ANCHOR BOLT ASSEMBLY SHALL BE HOT DIP GALVANIZED (FULL LENGTH) IN ACCORDANCE WITH C.S.A. STANDARD G164 WITH NET RETENTION OF 600 g/m.
- 3. ALL NUTS SHALL BE TAPPED OVERSIZE.
- ALL NUTS AND WASHERS SHALL BE ASSEMBLED BY THE SUPPLIER PRIOR TO DELIVERY.

BILL OF REINFORCING STEEL						BENDING DIAGRAM
MK. NO.	SIZE	QTY. REQ'D.	LENGTH (mm)	MASS (kg)	LINE NO.	BENDING DIAGRAM
20001	20M	6	2850	40.27	1	
10001	10M	10	1590	12.48	2	300
					3	
					4	
					5	——410 DIA
					6	
					7	10001
		•	•		8	
TOTAL M	IASS OF RE	INFORCING S	TEEL -	52.75 kg.	9	
TOTAL V	OLUME OF	C.I.P. CONC. F	PILES	- 0.590 m	10	



ACAD FILE6: *CAD*985973*MANHWY*AUTOCAD*STRUCTURE_DWG*F1.DWG 02/22/00