

NOTES:

1. REINFORCING STEEL

-CSA G30.12 GR. 400W

-VERTICAL BARS FULL LENGTH OF PILE

2. <u>ANCHORS BOLTS</u>
-CSA G40.21 GR. 300W
-4-25 DIA. x 1500 LONG + 150 HOOK
-TOP 300 THEADED
-HOT DIP GALVANIZED FULL LENGTH INCL. NUTS + WASHERS

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

i) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 35 MPa ii) MAXIMUM WATER/CEMENT RATIO = 0.45 iii) MINIMUM CEMENT CONTENT = 340 kg/m

ii) Minimom cement content = 340 k iv) SLUMP = 80mm ± 30mm v) AGGREGATE: 20mm NOMINAL vi) AIR CONTENT: 5.0 TO 8.0 PERCENT

vii) CEMENT - TYPE HS, HIGH SULPHATE RESISTANT

4. TOP RING & ANCHOR BOLT TEMPLATE

-CONTRACTOR SHALL USE A STEEL TOP RING FORM FOR ALL PILE
INSTALLATIONS. REFER TO STANDARD DWG. ST-116 FOR FABRICATING
THE TOP RING FORM SUITABLE FOR 450 (18") DIA. PILES.

-CONTRACTOR SHALL USE A STEEL ANCHOR BOLT TEMPLATE TO SET
THE ANCHOR BOLTS IN THE PILES. REFER TO STANDARD DWG. ST-117
FOR FABRICATING THE TEMPLATE SUITABLE FOR 450 (18") DIA. PILES.

5. BREAKAWAY BASE
COMPONENTS REQUIRED FOR TYPICAL ASSEMBLY
-REACTION PLATE ASTM A36 OR EQUAL (HOT—DIP GALV.)
-30,000 PSI GRAY CAST—IRON COUPLER
-LOCK NUT, LEVELING NUT & RETAINING NUTS, LOWER WASHER & TOP
WASHER ASTM A36 OR EQUAL (HOT DIP GALV.)
-25 (1") DIA. BUNC STUD—4140 STEEL (HOT DIP GALV.)
-SPACER—25 (1") DIA. PVC PIPE
-PLASTIC NUT COVERS— FOR 25 (1") DIA NUTS.
-SHROUD—#24 U.S. GAUGE, ATTACH WITH 3—#10x3/4" SELF—TAPPING S/S SHEET METAL,
SCREWS. SHROUD SHALL BE HOT—DIP GALV.

6. <u>UNDERGROUND UTILITIES</u>
-UNDERGROUND UTILITIES ARE NOT SHOWN.
-CONTRACTOR SHALL OBTAIN CLEARANCE FROM ALL UTILITY COMPANIES AT EACH PILE LOCATION PRIOR TO PILE CONSTRUCTION.

DRAWING REDUCED NOT TO SCALE

B.M. ELEV.				BY	S.S.R./A.S.D.	\
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				BY CHECKED	S.S.R.	DILLON
				APPROVED BY		CONSULTING
				HOR. SCALE VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION
NO.	REVISIONS	DATE	BY	DATE	SEPT. 2004	DATE





04-3144-1000

Winnipèg

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

WAYFINDER SIGNS	WF-04-11			
	SHEET	11	OF	11
SIGN PLATE OPTION				
CONCRETE PILE FOUNDATION DETAILS				

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