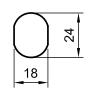


STRUCTURAL STEEL BEAM CONNECTION DETAILS

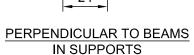
SCALE: 1:10

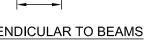


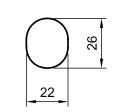
LONGITUDINAL TO BEAMS

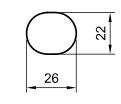
IN BEAMS











LONGITUDINAL TO BEAMS IN BEAMS

PERPENDICULAR TO BEAMS IN SUPPORTS

CONSULTANT DRAWING NUMBER

TYPICAL SLOTTED HOLE DETAIL FOR 16mm A325 BOLT

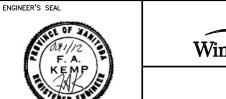
TYPICAL SLOTTED HOLE DETAIL FOR 20mm S.S. THREADED HAS ROD

NOTES:

- 1. STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED G40.21 GRADE 44W.
- 2. STAINLESS STEEL TREADED RODS MINIMUM Fy 50 PSI, GROUTED IN 40Ø HOLEx150 DEPTH MINIMUM WITH 4,000 PSI NON-SHRINK GROUT.
- 3. ALL BOLTED CONNECTIONS TO BE 16mmØ A325 **BOLTS, SUPPLY WITH NUTS & WASHERS** GALVANIZED (TYPICAL UNLESS NOTED).
- 4. ALL BOLT HOLES TO BE 14mmØ (TYPICAL UNLESS
- 5. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

APEGIN Kemp Engineering Inc. o. 1003 Date: Oct / 2012

SCALE: 1:2					SCALE: 1:2	
LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.					
	COSTRUCTIO	COSTRUCTION COMPLETION DATE: YYYY MM DD			1	
					1	
SUPV. U/G STRUCTURES DATE]	
COMMITTEE				<u> </u>	DESIGNED FAK	CHECKED FAK
NOTE:					BY FAN	BY FAR
LOCATION OF UNDERGROUND STRUCTURES AS			-	<u> </u>	DRAWN BY BH	APPROVED FAK
SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO QUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTIANCE FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			+	1	SCALE: HORIZONTAL AS NOTED VERTICAL	RELEASED FOR CONSTRUCTION
	NO.	REVISIONS	DATE	BY	DATE 2012 10 15	DATE
					PLOT DATE: 2012 10 15	



Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT **ENGINEERING DIVISION**

WILKES AVE RESERVOIR WILKES RESERVOIR VALVE PIT B

STRUCTURAL DETAILS 1

SHEET 4 OF 7 CITY DRAWING NUMBER

D - 13048

FILE PATH: C:\2CURRENT_PROJECTS\Kemp Engineering\Wilkes Reservoir\FILE NAME: WILKES RESERVOIR.dwg

C:\2CURRENT_PROJECTS\Kemp Engineering\Wilkes Reservoir\WILKES RESERVOIR.dwg, 15/10/2012 3:58:44 PM