

SECTION A-A

SECTION D-D

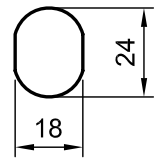
SECTION E-E

STRUCTURAL STEEL BEAM CONNECTION DETAILS

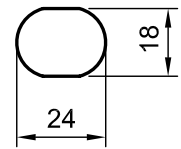
SCALE : 1:10

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 NOTED)
5. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.



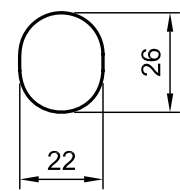
LONGITUDINAL TO BEAMS
IN BEAMS



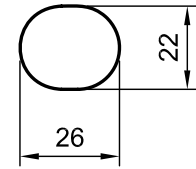
PERPENDICULAR TO BEAMS
IN SUPPORTS

**TYPICAL SLOTTED HOLE DETAIL
FOR 16mm A325 BOLT**

SCALE : 1:2



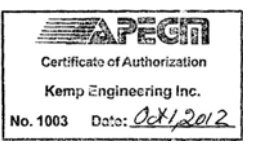
LONGITUDINAL TO BEAMS
IN BEAMS



PERPENDICULAR TO BEAMS
IN SUPPORTS

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

SCALE : 1:2



LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE 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 OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	B.M. ELEV. CONSTRUCTION COMPLETION DATE: YYYY MM DD	ENGINEER'S SEAL 		 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					
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