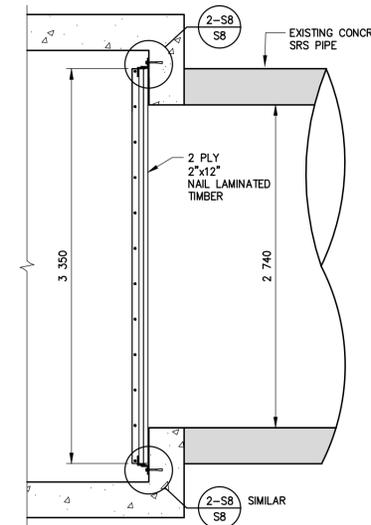
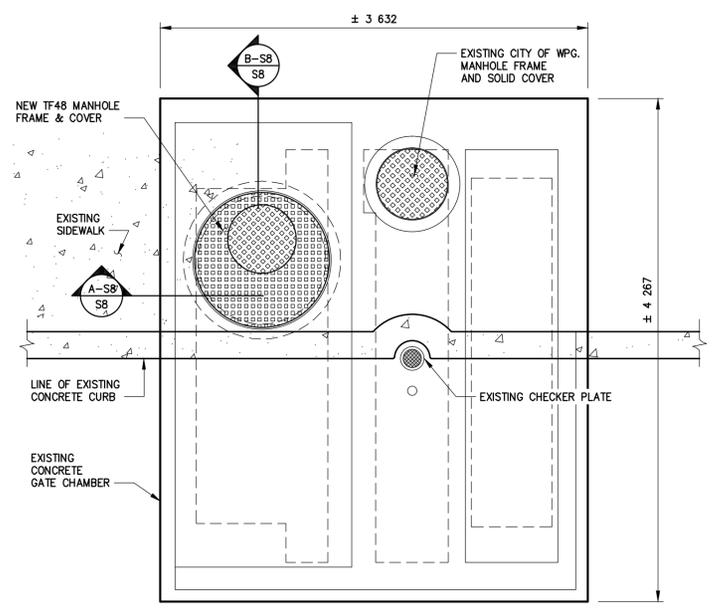


- NOTES:**
- ALLOWABLE SHUT DOWN TIME: 4.0 HOURS (APPROXIMATE)
- REMOVE EXISTING SLUICE GATE.
 - PROVIDE TEMPORARY PUMPING OF WASTEWATER DURING CONSTRUCTION
 - INSTALL MECHANICAL AND ELECTRICAL WORK AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATION.
 - EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR 5 BACKFILL IN ACCORDANCE WITH C/W 2030 AND SD-002.
 - GASKETS TO BE FULL FACED, 3 THICK RED RUBBER.
 - CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING PIPE

- MISCELLANEOUS METALS AND ACCESSORIES**
- STEEL SECTIONS AND PLATES: TO CAN/CSA G40.20/G40.21, GRADE 300 W, EXCEPT W, HP AND HSS SECTIONS, WHICH SHALL BE GRADE 350 W.
 - WELDING MATERIALS: TO CSA W59.
 - ANCHOR BOLTS AND FASTENERS: ASTM A276, TYPE 316 STAINLESS STEEL, OF AMPLE SECTION TO SAFELY WITHSTAND THE FORCES CREATED BY OPERATION OF THE EQUIPMENT OR THE LOAD TO WHICH THEY WILL BE SUBJECTED.
 - ALL EXPOSED OR PARTIALLY EXPOSED MISCELLANEOUS METAL WORKS, INCLUDING NAILS, BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED. GALVANIZING SHALL CONFORM TO CSA G164 MINIMUM COATING OF 600g/m².
 - WHERE GALVANIZING IS DAMAGED, REPAIR WITH TWO COATS OF A ONE COMPOUND ZINC-RICH COATING CONTAINING 96% NON-TOXIC ELECTROLYTIC ZINC POWDER (PURE TO 99.995%) AND NON-TOXIC SOLVENT.

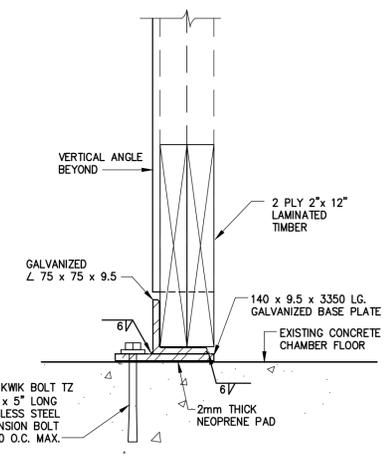
- WOOD**
- ALL LUMBER SHALL CONFORM TO LATEST NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER.
 - ALL LUMBER SHALL BE PRESSURE TREATED D FIR-L NO. 1 OR 2 GRADE WITH PRESERVATIVE IN ACCORDANCE WITH CSA 080 AND CSA 080.3.
 - ALL HARDWARE INCLUDING NAILS, BOLTS, WASHERS, AND PLATES SHALL BE HOT DIP GALVANIZED.
 - CUTTING, FRAMING AND BORING OF TREATED TIMBER WILL BE DONE BY THE SUPPLIER BEFORE TREATMENT, HOWEVER FIELD CUTTING, FITTING AND MATCHING MAY BE REQUIRED AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY CUTS AND HOLES, IN A TRUE AND WORKMANLIKE MANNER.
 - THE CONTRACTOR SHALL APPLY HEAVY COAT OF TIMBER PRESERVATIVE TO ALL AREAS WHERE THE SEAL OF TREATMENT HAS BEEN REMOVED IN THE PROCESS OF FIELD CUTTING AND FRAMING CONFORMING TO CSA-080 WOOD PRESERVATION AND CSA-080.2 PRESERVATIVE TREATMENT OF LUMBER, BRIDGE TIES, AND MINE TIES BY PRESSURE PROCESS.

- NAILS**
- NAILING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CSA 086.
 - NAILS SHALL BE HOT DIPPED GALVANIZED FRAMING NAILS WITH MINIMUM NAIL LENGTH OF TWICE THE PLANK THICKNESS AND SPACED AT 250mm IN AN ALTERNATING PATTERN FROM EACH SIDE OF TIMBER. NAILS SHALL BE 25mm FROM EDGE OF TIMBER AND HAVE A MAXIMUM END DISTANCE OF 100mm.

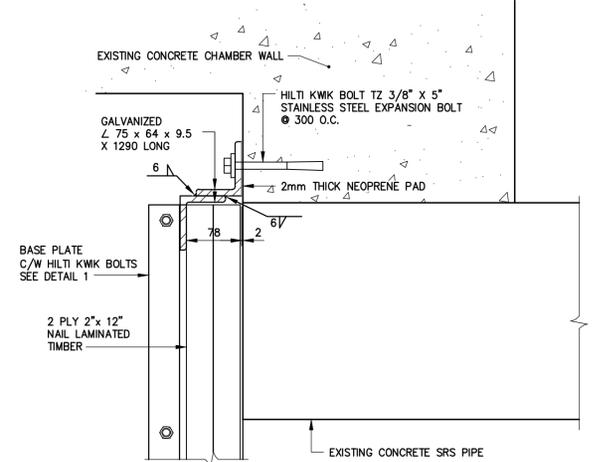


EXISTING ROOF PLAN
1:30

SECTION C-S8
1:30



WEIR BASE CONNECTION DETAIL
1:5



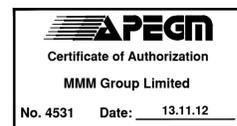
CONNECTION DETAIL
1:5

MATERIALS LIST

ITEM	DESCRIPTION	ENDS	LENTGTH	QUANTITY
①	FLOWSERVE MODEL 4MSX9A, 10 HP SUBMERSIBLE PUMPS C/W BASE ELBOW	FL		1
②	LIFTING CHAIN	-		1
③	POWER CABLE	-	AS REQUIRED	1
④	PUMP GUIDE RAILS	-	AS REQUIRED	2
⑤	100 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x PE	AS REQUIRED	1
⑥	100 # CL 90° STD RAD ELBOW	FL x FL	AS REQUIRED	1
⑦	100 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x PE	AS REQUIRED	1
⑧	100 # CI WEDGE GATE VALVE. BRONZE TRIM, OUTSIDE SCREW & YOKE RISING STEM & HANDWHEEL	FL x FL		1
⑨	100 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x FL	AS REQUIRED	1
⑩	100 x 150 # REDUCER COUPLING	-		1
⑪	150 # SCH 80 PVC PIPE	-	AS REQUIRED	1



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



DESIGNED BY	EH	CHECKED BY	WC
DRAWN BY	KDB	APPROVED BY	
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
VERT. SCALE	AS NOTED		
1 ISSUED FOR TENDER	13.11.12	EH	
No. REVISIONS	DATE	BY	DATE
			13.11.12



THE CITY OF WINNIPEG
WASTE AND WATER DEPARTMENT

Winnipeg

OUTFALL GATE CHAMBER UPGRADES
McDERMOT AVENUE
SRS OUTFALL GATE CHAMBER
EXISTING CHAMBER UPGRADES

CONSULTANT DRAWING No.: 5513108-S8
SHEET 9 OF 22
CITY DRAWING No.: LD-7254

BID OPPORTUNITY: 912-2013
PLOT DATE: 13.11.12

Project: November 15, 2013, 10:29:24 AM | User: Sander By | Printer: C
 File: P:\5513108-SRS\5513108-SRS\McDermot Ave. Outfall Chamber Upgrades\MMMDrawings\5513108_20131023_McDermot Outfall Sub.dwg | Layout: 9 Existing Chamber Upgrades

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.