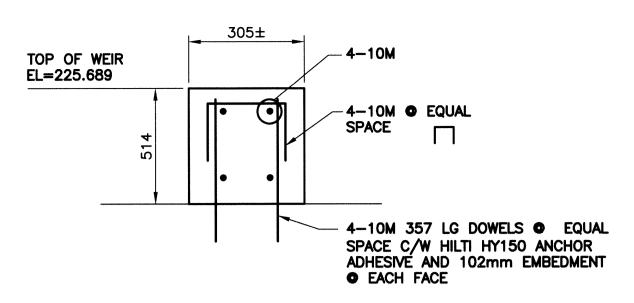


<u>PLAN</u> CORE HOLE FOR NEW VALVE -REMOVE EXIST OPERATOR AND PLUG EXIST SLAB PENETRATION WITH CPD OPERATOR — NON SHRINK GROUT. INSTALL NEW OPERATOR. INSTALL NEW STEM GUIDES 150¢ FRESH (SPACING AND NUMBERS BY GATE AIR DUCTS SUPPLIER AS PER AWWA C50A) -EL=231.322 - PUMP STATION CONC MH 150 AC FORCEMAIN -100ø CI DISCHARGE 2280X1520 CONC CS EL=225.247 EL=225.400 INSTALL NEW 3000 (324 O.D.) SCH4O S.S. PIPE IN 900 LONG -SUMP PUMP SEGMENTS (MAX.) WITH THREADED COUPLINGS. PUMP STATION END SHALL BE FLANGED FOR GATE VALVE CONNECTION. (INCLINE FLANGE TO SUIT PIPE SLOPE) SEE NOTE 1 THIS DÉTAIL-150 SUCTION INSTALL NEW 3000 GATE VALVE PIPE ----C/W FLANGED PIPE. 75ø GATE VALVE CONNECTION STEM EXTENSION, AND HAND WHEEL OPERATOR 600x600x600 DEEP SUMP --INSTALL NEW GATE VALVE 1. CONTRACTOR SHALL MEASURE ELEVATION OF SEWER AND GATE SUPPORT BRACKET (BY GATE VALVE SUPPLER) -VALVE INVERT TO VERIFY SLOPE OF PIPE PRIOR TO ORDERING

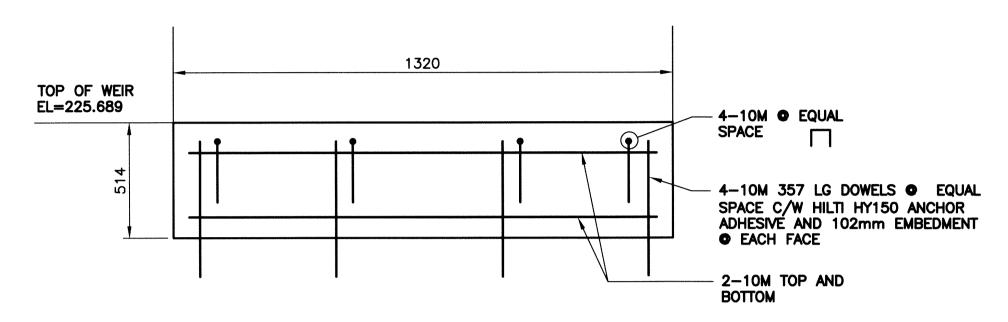
PUMP STATION - PIPE REPLACEMENT DETAILS

CROSS SECTION

FLANGE AND CORING PIPE.

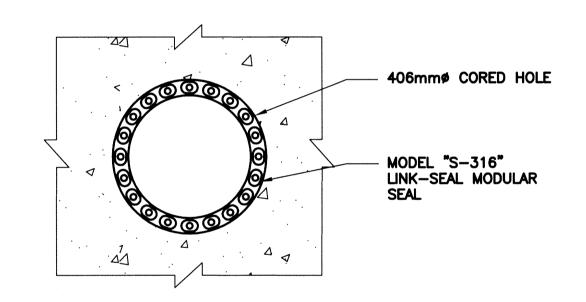


CROSS SECTON

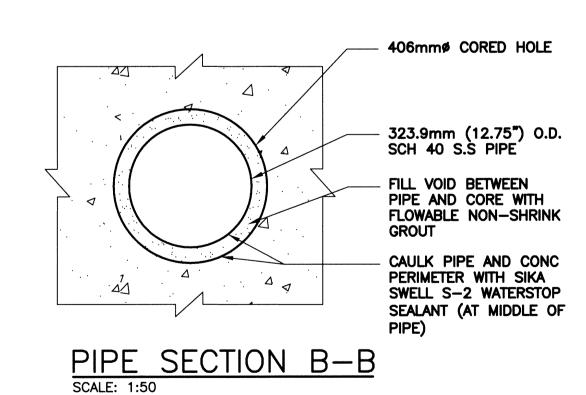


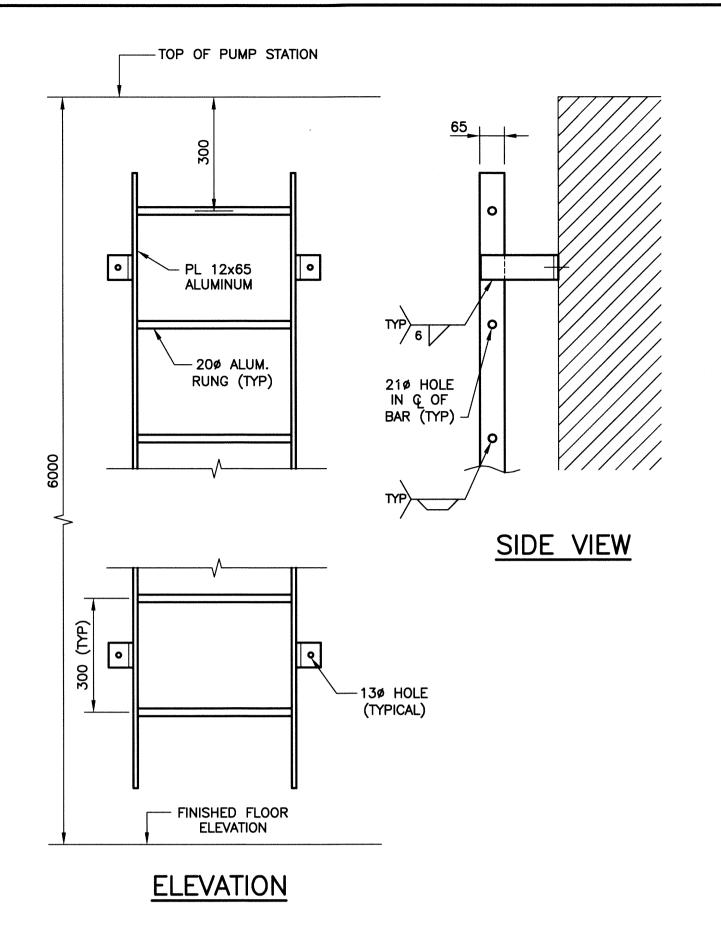
ELEVATION

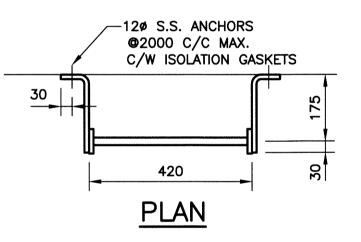
OVERFLOW WEIR DETAILS SCALE: NTS



PIPE SECTION A-A







LADDER DETAILS

NOTES:

<u>LADDER</u>

- 1. ALL ALUMINUM CONFORMS TO THE ALUMINUM ASSOCIATION "SPECIFICATIONS FOR ALUMINUM STRUCTURES"-(LATEST EDITION). ALUMINUM FOR PLATES TYPE 5086.
- 2. ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE SHALL BE COATED WITH A BITUMINOUS ISOLATION COATING MEETING ASTM D1187.
- 3. ALL NUTS, BOLTS AND ANCHORS CONFORM TO ASTM A276, TYPE 316 STAINLESS STEEL. STAINLESS STEEL ANCHORS SHALL BE ISOLATED FROM DIRECT CONTACT WITH ALUMINUM WITH NYLON HEADED SLEEVES. ADHESIVE SHALL BE HILTI HY150 OR APPROVED EQUIVALENT IN ACCORDANCE WITH B6 OF THE BID DOCUMENTS.

GATE VALVE

- 1. GATE VALVE TO BE CAST IRON BODY WITH FLANGED ENDS, MEETING AWWA C509 AMD C515 AND BE APPROVED BY THE ULC.
- 2. GATE VALVE SHALL HAVE A BRONZE TRIMMED CAST-IRON WEDGE, BRONZE STEM (NON-RISING), DOUBLE O-RING STEM SEALS AND A 50 MILLIMETER SQUARE OPENING NUT.
- 3. THE GATE VALVE SHALL BE SUPPLIED WITH A WALL SUPPORT BRACKET, STEM EXTENSION AND HAND OPERATOR WHEEL. DISTANCE FROM GATE INVERT TO TOP OF FLOOR IS 6075 mm (TO BE FIELD CONFIRMED BY CONTRACTOR.)
- 4. SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE BID DOCUMENTS.
- 5 GATE VALVES SHALL BE MANUFACTURED BY CLOW CANAD, CRANE, MUELLER CANADA OR AN APPROVED EQUIVALENT IN ACCORDANCE WITH B6 OF THE BID DOCUMENTS.

WARNING

NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

2. TAKE PRECAUTION TO AVOID DAMAGE TO

GAS COMPANY INSTALLATIONS. 3. SEE PROVINCIAL REGULATION 210/72 FOR

METRIC

DECIMALIZED NUMBERS INDICATE METRES

WHOLE NUMBERS INDICATE MILLIMETRES

DETAILS.

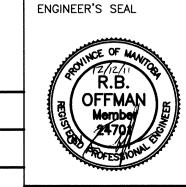
APEGIN Certificate of Authorization

KGS Group

5	150_WM	WATERMAIN	<u>150 WM</u>		HYDRO					LOCATION	
_	ф	HYDRANT	+		M.T.S.					UNDERGROU	
-	8	VALVE	8		PROPERTY LINE					ONDERGROOM	
5	300 LDS	LAND DRAINAGE SEWER	300 LDS	#	SURVEY BAR					SUPV. U/G STRUC	
Y	<u>250 WWS</u>	WASTE WATER SEWER	<u>250 WWS</u>	•	LIGHT STANDARD					COMMITTEE	
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	LOCATION APPROVED UNDERGROUND STRUCTURES	ELE	V.
	ONDEROROUND STRUCTURES		
	SUPV. U/G STRUCTURES DATE		
	COMMITTÉE		
	NOTE:		
	LOCATION OF UNDERGROUND STRUCTURES AS		L
	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	1	Γ
	OBTAINED FROM THE INDIVIDUAL UTILITIES	0	Γ
`	BEFORE PROCEEDING WITH CONSTRUCTION.	NO	Г

D ES	ELE	KGS BASE V.	DWGS BASED ON C SYSTEM, UTM GRID	.S.R.S. N	AD 83	KGS				ENGINEER'S SEAL	
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TION						DRAWN BY	DMW	APPROVED BY		POPES OF THE POPE	
IX.	1	ISSUED FOR	ADDENDUM	12/12/11	RBO	HOR. SCALE:	1:250	RELEASED FOR			
	0	ISSUED FOR		12/11/30		VERTICAL:	1:50	CONSTRUCTION:		CONSULTANT DRAWING NO.	
	NO.	REVISIONS		DATE	BY	DATE	12/09/05	DATE		11-0107-33	



11-0107-33

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II.	

THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT

2012 OUTFALL RENEWAL/ REHABILITATION PROGRAM CHATAWAY BOULEVARD

OUTFALL (AS-60)

CAD FILE DRAWING NUMBER 11-0107-33 CITY DRAWING NUMBER NEW WEIR AND LIFT STATION UPGRADES LD-6947