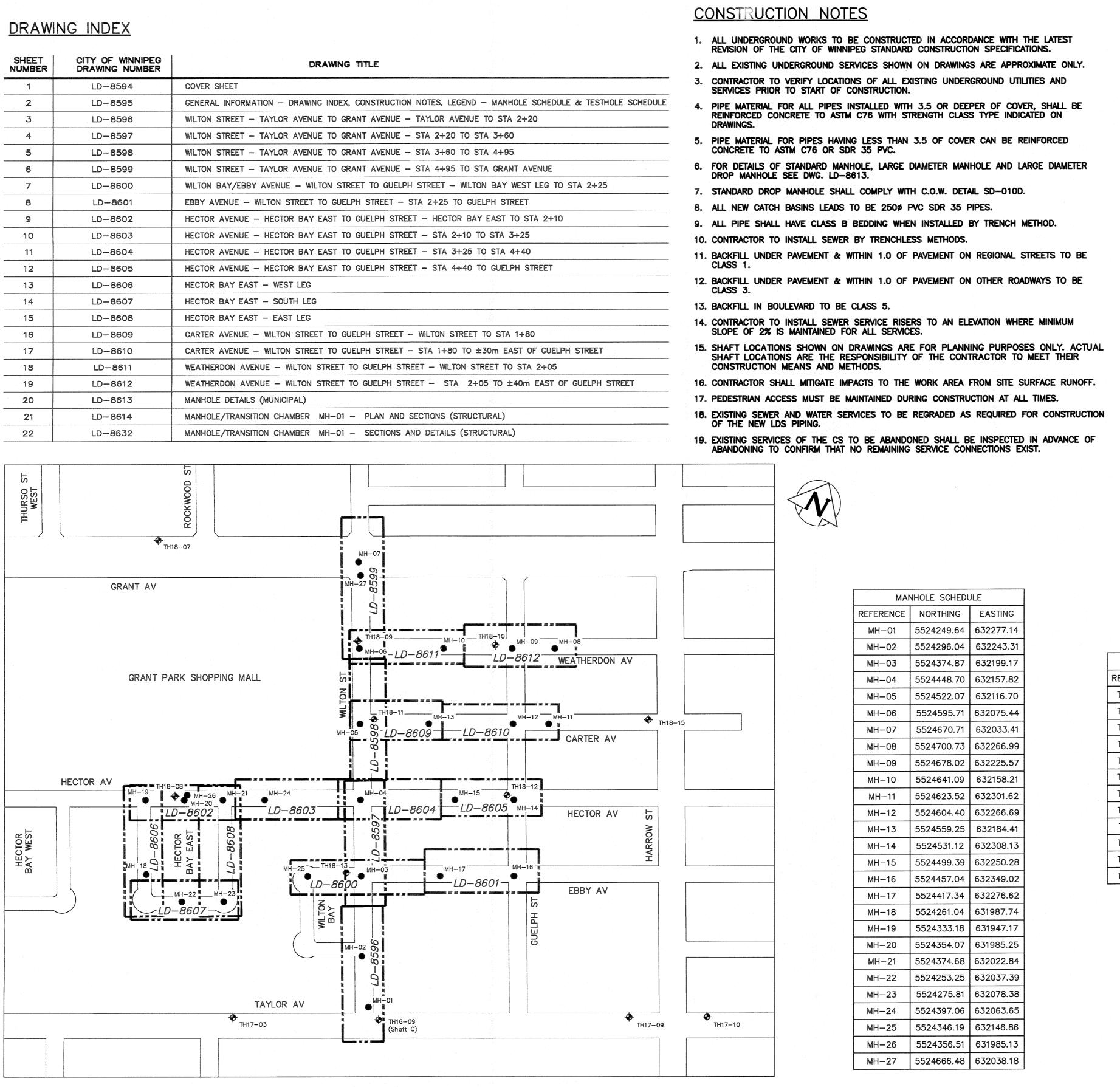
APPENDIX C

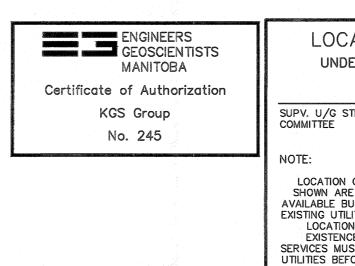
COCKBURN SEWER RELIEF REFERENCE INFORMATION (CONTRACTS 1, 2, 3, 4, 5A, & 11)

Wilton Trunk – Contract 11 (Bid Opportunity 640-2018)

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	LD-8594	COVER SHEET
2	LD-8595	GENERAL INFORMATION - DRAWING INDEX, CONSTRUCTION NOTES, LEGEND - MANHOLE SCHEDULE & TES
3	LD-8596	WILTON STREET - TAYLOR AVENUE TO GRANT AVENUE - TAYLOR AVENUE TO STA 2+20
4	LD-8597	WILTON STREET - TAYLOR AVENUE TO GRANT AVENUE - STA 2+20 TO STA 3+60
5	LD-8598	WILTON STREET - TAYLOR AVENUE TO GRANT AVENUE - STA 3+60 TO STA 4+95
6	LD-8599	WILTON STREET - TAYLOR AVENUE TO GRANT AVENUE - STA 4+95 TO STA GRANT AVENUE
7	LD-8600	WILTON BAY/EBBY AVENUE - WILTON STREET TO GUELPH STREET - WILTON BAY WEST LEG TO STA 2+
8	LD-8601	EBBY AVENUE - WILTON STREET TO GUELPH STREET - STA 2+25 TO GUELPH STREET
9	LD-8602	HECTOR AVENUE - HECTOR BAY EAST TO GUELPH STREET - HECTOR BAY EAST TO STA 2+10
10	LD-8603	HECTOR AVENUE - HECTOR BAY EAST TO GUELPH STREET - STA 2+10 TO STA 3+25
11	LD-8604	HECTOR AVENUE - HECTOR BAY EAST TO GUELPH STREET - STA 3+25 TO STA 4+40
12	LD-8605	HECTOR AVENUE - HECTOR BAY EAST TO GUELPH STREET - STA 4+40 TO GUELPH STREET
13	LD-8606	HECTOR BAY EAST - WEST LEG
14	LD-8607	HECTOR BAY EAST - SOUTH LEG
15	LD-8608	HECTOR BAY EAST - EAST LEG
16	LD-8609	CARTER AVENUE - WILTON STREET TO GUELPH STREET - WILTON STREET TO STA 1+80
17	LD-8610	CARTER AVENUE - WILTON STREET TO GUELPH STREET - STA 1+80 TO ±30m EAST OF GUELPH STREE
18	LD-8611	WEATHERDON AVENUE - WILTON STREET TO GUELPH STREET - WILTON STREET TO STA 2+05
19	LD-8612	WEATHERDON AVENUE - WILTON STREET TO GUELPH STREET - STA 2+05 TO ±40m EAST OF GUELPH
20	LD-8613	MANHOLE DETAILS (MUNICIPAL)
21	LD-8614	MANHOLE/TRANSITION CHAMBER MH-01 - PLAN AND SECTIONS (STRUCTURAL)
22	LD-8632	MANHOLE/TRANSITION CHAMBER MH-01 - SECTIONS AND DETAILS (STRUCTURAL)
R		



MANHOLE & TESTHOLE LOCATION PLAN SCALE: N.T.S.



ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ሮ	PROPERTY LINE
Ę	CENTER LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
MAX	MAXIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
CRN	CORNER
OPP	OPPOSITE
C/S OR S/C	CURB STOP
MTS	MANITOBA TELEPHONE SYSTEM
R.O.W.	RIGHT-OF-WAY
WM	WATERMAIN
CULV	CULVERT
MH	MANHOLE
CB	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
TYP	TYPICAL
X—ING	CROSSING
HYD	HYDRANT
EXIST	EXISTING
N	NORTH
E	EAST
S	SOUTH
W	WEST
W/	WITH
c/w	CONSTRUCTED WITH
CONC	CONCRETE
AC	ASBESTOS CEMENT
VC OR CLAY	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
JCT	JUNCTION

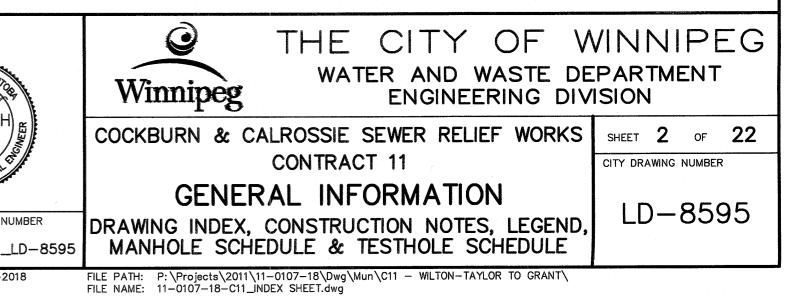
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TH16-09	5524243.0	632294.0
TH17-03	5524167.0	632150.0
TH17-09	5524380.0	632538.0
TH17-10	5524422.0	632614.0
TH18-07	5524594.0	631820.0
TH18-08	5524353.0	631974.0
TH18-09	5524602.0	632070.0
TH18-10	5524672.0	632207.0
TH18-11	5524534.0	632128.0
TH18-12	5524532.0	632299.0
TH18-13	5524370.0	632183.0
TH18-15	5524681.0	632397.0

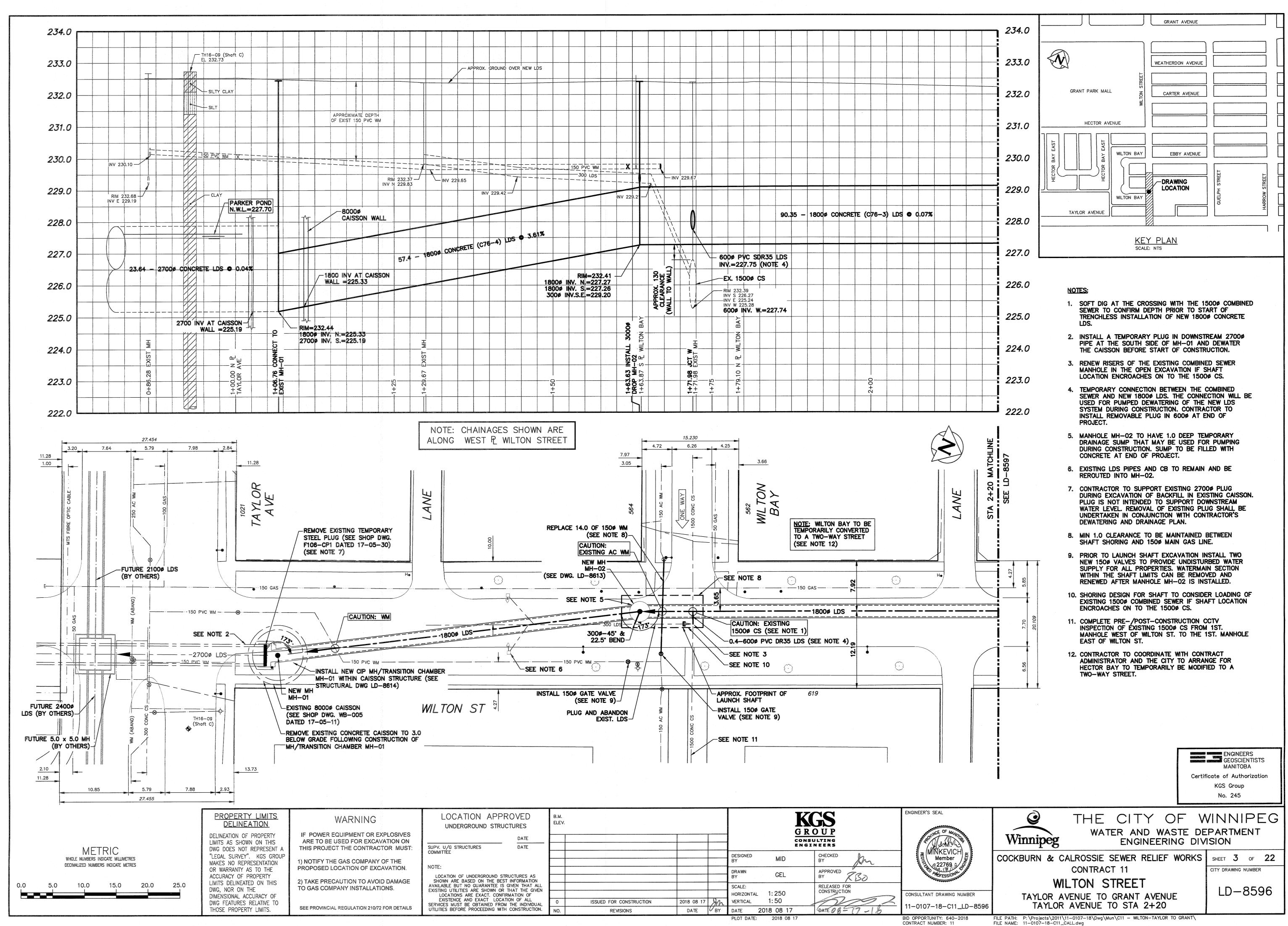
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					PLOT DATE: 2018 08 17		BID OPPORTUNITY: 640-201 CONTRACT NUMBER: 11

LEGEND

	PLAN VIEW	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT	÷	+
VALVE	8	8
CURB STOP	ď	¢`
REDUCER	4	4
COUPLING OR SLIDER	x	X
CROSS	Ð	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H 4 4	чччч
TEE	д	А
VERTICAL BEND	н	Н
ANODE	2	2
REPAIR MARKER	Ŷ	
PLUG	C	3
SEWER PIPE		
MANHOLE	0	•
CATCH BASIN	٥	
CURB INLET	▽	V
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CULVERT	C=====	C======
SURVEY BAR	<u>+</u>	*
SURVEY MONUMENT		
TREE - DECIDUOUS	\odot	<u></u>
TREE - CONIFEROUS		
HYDRO		
HYDRO POLE	●H	<u> </u>
LAMP STANDARD	••	
HYDRO POLE W/STREET LIGHTING	He⊸e	nanadalah
POLE	•	
GUY ANCHOR	(—	
M.T.S. POLE	•M	
PEDESTAL OR BOX	⊠	
CABINET	\square	
M.T.S., SHAW, OR VIDEON	· · · · · · · · · · · · · · · · · · ·	
TRAFFIC SIGNALS		······································
TRAFFIC LIGHT STANDARD	•>	
GAS		
STEAM	· · · · · · · · · · 	
FIBRE OPTIC		
FENCE		
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
		and and a second se
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX	M	
PARKING METER	 P	
TEST HOLE	•	\$
TREE LINE OR BUSH	¥	Ŧ

	PROFILE	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
HYDRANT TOP	+	+
VALVE		X
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
END OF PIPE	δ	6
SEWER PIPE		
UNPAVED GROUND SURFACE		
PAVED GROUND SURFACE - & PIPE		
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)		
€ DITCH (NORTH AND WEST)		
€ DITCH (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		

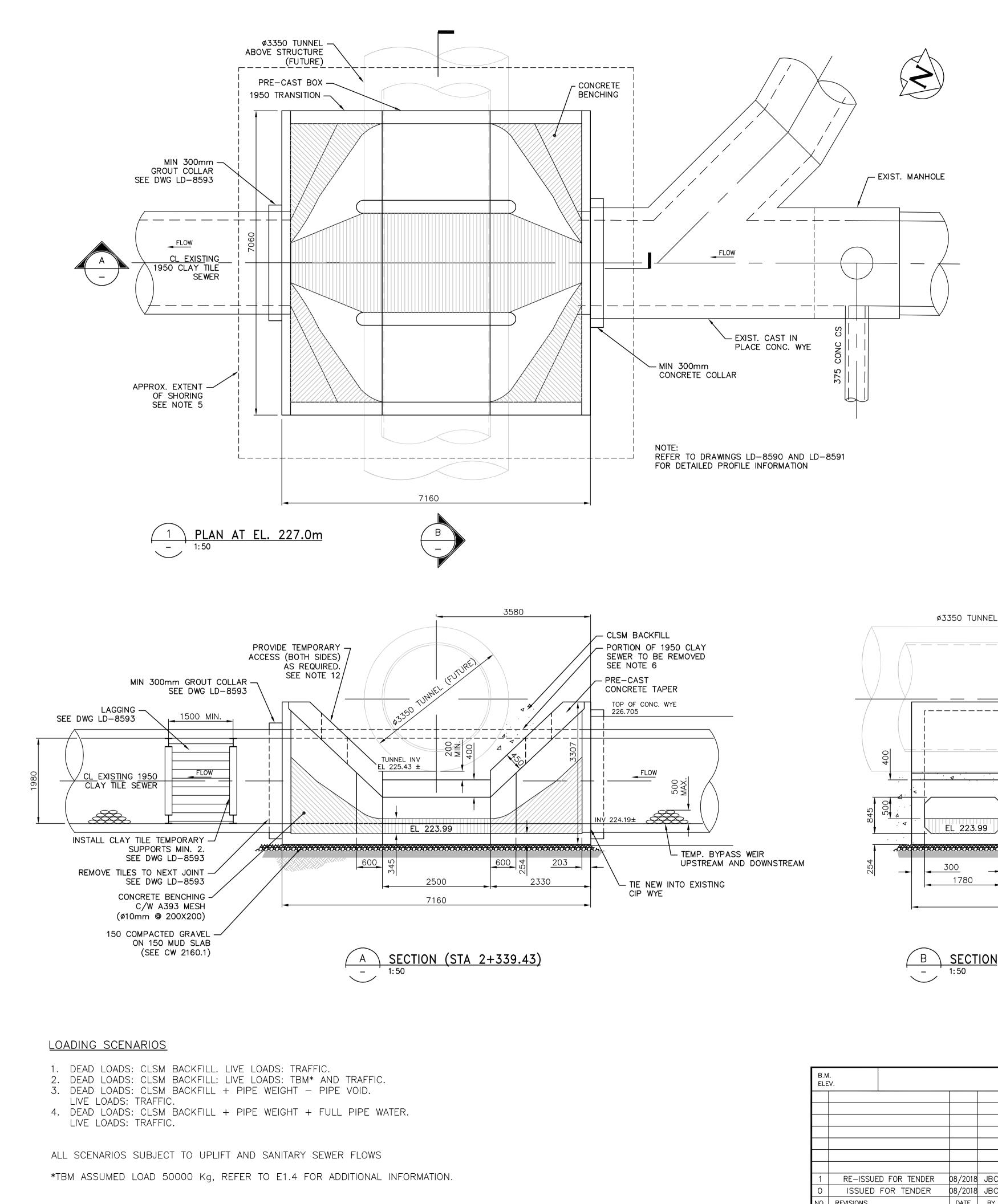


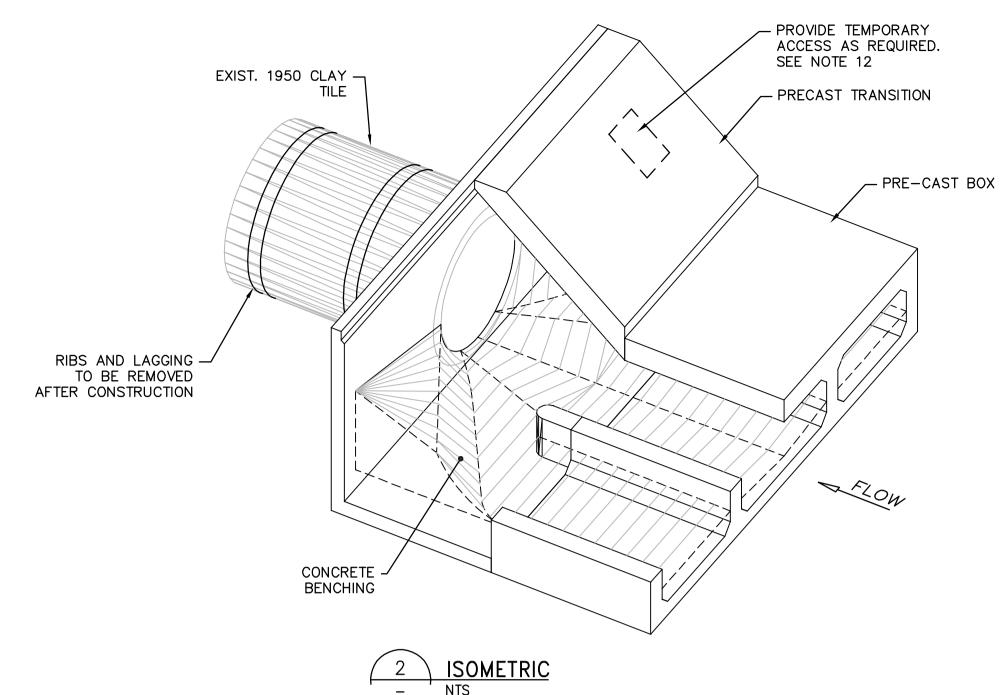


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CONTRACT NUMBER: 11

Harrow Crossing – Contract 5A (Bid Opportunity 725-2018)





______ – ТО МАТСН EXIST 1950 INV. 4 4 ⊿. ⊄. 4 300 300 BENCHING 2300 1780

7060

	B.M ELE				GROU GROU CONSULTIN ENGINEER	G	h2 /	M.s.r	ENGINEER'S SEAL ORIGINAL SIGNED BY M.R. DRAPER
ŀ					DESIGNED BY	MD	CHECKED BY	ES	DATED 8/3/2018
					DRAWN BY	JBC	APPROVED BY	RH	
┢	1	RE-ISSUED FOR TENDER	08/2018	JBC	HOR. SCALE:	AS NOTED	RELEASED F	OR	
ł	0	ISSUED FOR TENDER	08/2018		VERTICAL:	_	CONSTRUCT	ON: SC	CONSULTANT DRAWIN
	0 NO.	REVISIONS	DATE	BY	DATE		DATE	08/07/2018	S-505

Ø3350 TUNNEL (FUTURE)

CONSTRUCTION NOTES:

- 1. SEWER AND WATER SERVICES SHOWN ON DRAWING ARE
- APPROXIMATE ONLY. 2. LOCATION OF ALL SEWER AND WATER LINES TO BE
- CONFIRMED IN FIELD.
- 3. DRY WEATHER CONSTRUCTION ONLY. 4. TRAFFIC MANAGEMENT PLAN TO BE IMPLEMENTED AS PER SPECIFICATIONS.
- 5. CONTRACTOR TO DESIGN TEMPORARY SHORING WORKS. SEE TRAFFIC RESTRICTIONS WITHIN THE DETAIL SPECIFICATIONS FOR CONSTRAINTS.
- 6. CONTRACTOR TO TEMPORARILY SUPPORT CLAY TILES DURING INSTALLATION.
- 7. CONTRACTOR TO PROVIDE TEMPORARY BYPASS PUMPING. 8. PRE-CAST CONCRETE STRUCTURES IN ACCORDANCE WITH B7.
- 9. PRE-CAST UNITS TO BE SEALED WATER TIGHT IN ACCORDANCE WITH PRE-CAST MANUFACTURER'S RECOMMENDATIONS.
- 10. CONTRACTOR TO ENSURE STRUCTURE HAS BEEN DESIGNED FOR TEMPORARY LOADS FROM TBM AND LONG TERM PERMANENT LOADINGS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN MANITOBA.
- 11. MINIMUM FINAL CROSS SECTION FLOW AREA OF 3.0m² WITH FINAL BENCHING IN PLACE.
- 12. DOWNSTREAM MANHOLE LOCATED 72m SOUTH OF INTERSECTION.

- CLSM BACKFILL

- PRE-CAST BOX

RECOMMENDED CONSTRUCTION SEQUENCE

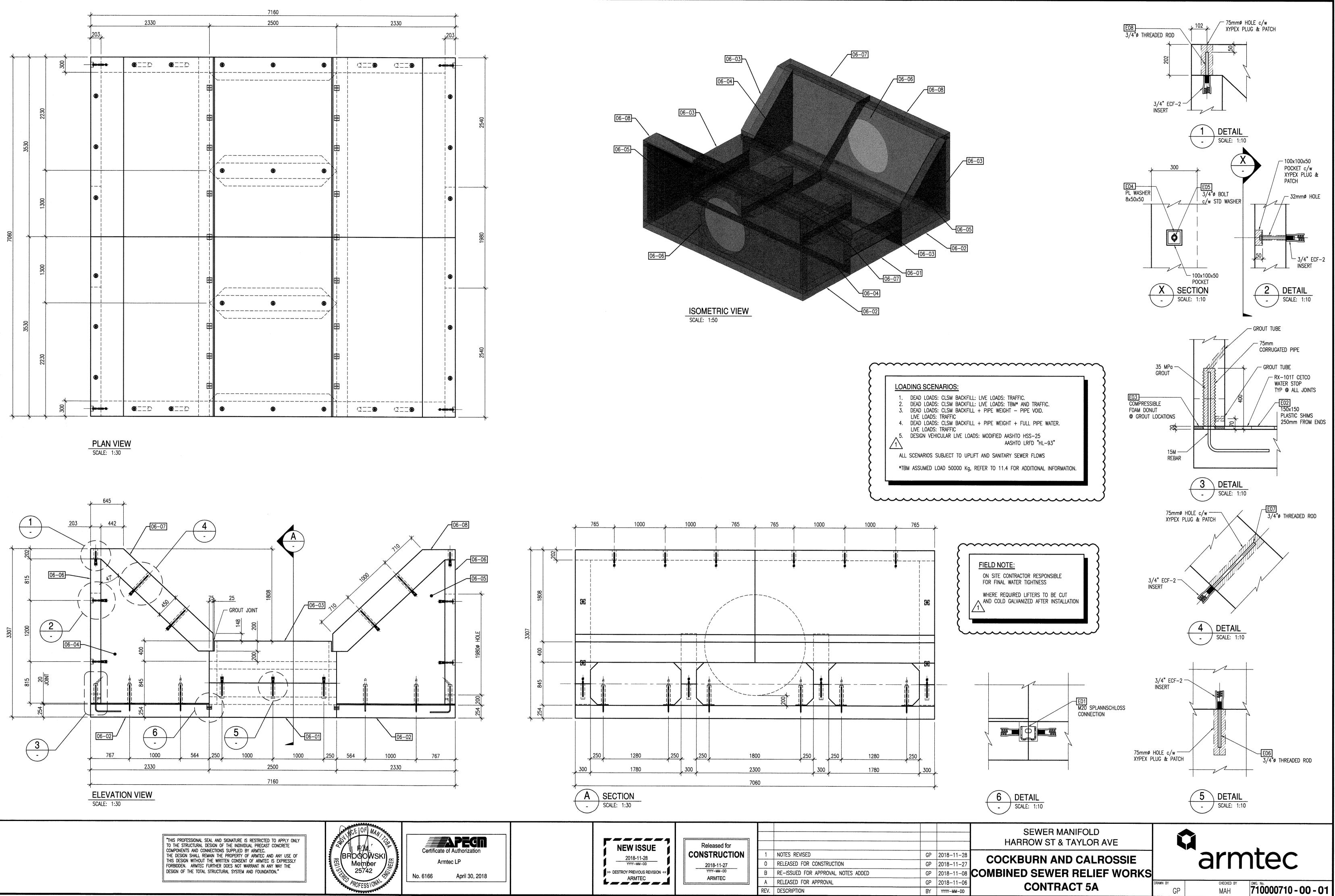
- 1. INSTALL TEMPORARY BYPASS PUMPING FOR SANITARY FLOWS. 2. SUPPORT EXISTING TILE SEWER AT EXTENT OF EXCAVATION.
- 3. EXPOSE EXISTING CLAY TILE SEWER AND CONFIRM LOCATION AND DIMENSIONS.
- 4. DEWATER EXCAVATION TO A MIN. 300mm BELOW SUBGRADE. 5. EXCAVATE AND REMOVE EXISTING TILE SEWER WITHIN WORKING LIMITS.
- 6. PREPARE SUBGRADE.
- INSTALL PRECAST UNITS AND CAST COLLAR.
- 8. INSTALL BENCHING AND GROUT GAPS WITHIN THE TILES AT THE UP AND DOWNSTREAM LOCATIONS.
- 9. REMOVE TEMPORARY BYPASS PUMPS.
- 10. BACKFILL WITH CLSM TO UNDERSIDE OF ROAD SUBGRADE. 11. REINSTATE TAYLOR AVENUE.

Certificate of Authorization

CH2M HILL Canada Ltd.

No. 1441

PROJECT TITLE COCKBURN AND CALROSSIE COMBINED SEWER RELIEF WORKS – CONTRACT 5A COMPUTER FILE NAME STRUCTURAL S-505.dwg	L 3Y 2ER	Winnipeg THE CITY OF WINN WATER AND WASTE DEPAR	
		COCKBURN AND CALROSSIE COMBINED	4 OF 5
		STRUCTURAL	
MING NO. MODIFICATION OF EXISTING 1950 SEWER CITY DRAWING NUMBER 5 SHEET 1 OF 2 LD-8592			



Nov. 28, 2012

Break Results for the CLSM Backfill (Consistent with the tunnelling path)

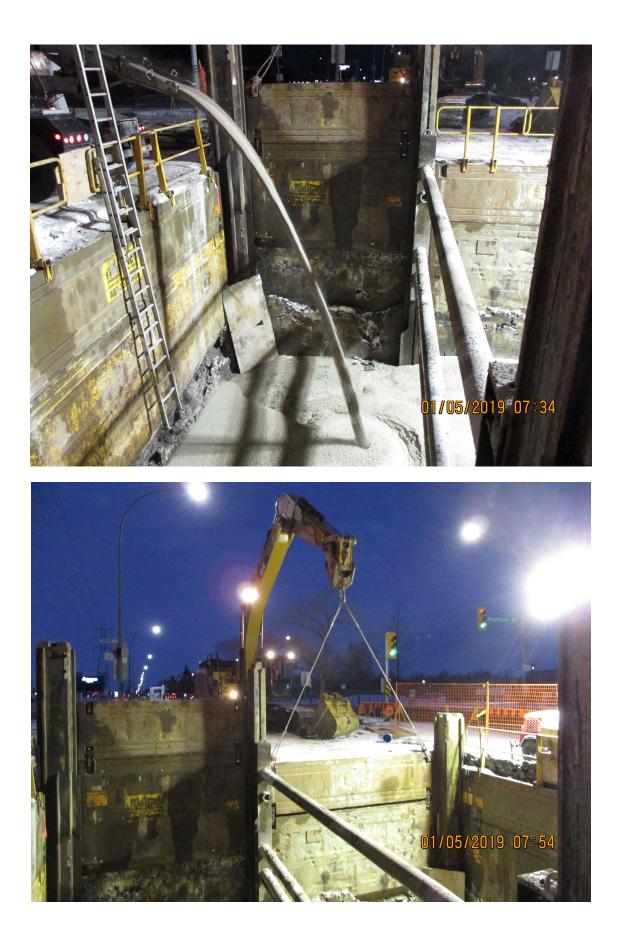
The excavation at Tayor Ave and Harrow St was filled with CLSM with a minimum design stregth of 0.5MPa at 28 days The table below shows the depth of each sample taken and the early break strength. The 28 day results will be provided to the succesful bidder. Additional cylinders were cast that will be broken prior to construction reaching the area.

CLSM Sample Elevation	Compressive Strength
225.3	0.43MPa (11 Days)
2282	0.25MPa (10 Days)
228.9	0.24MPa (10 Days)



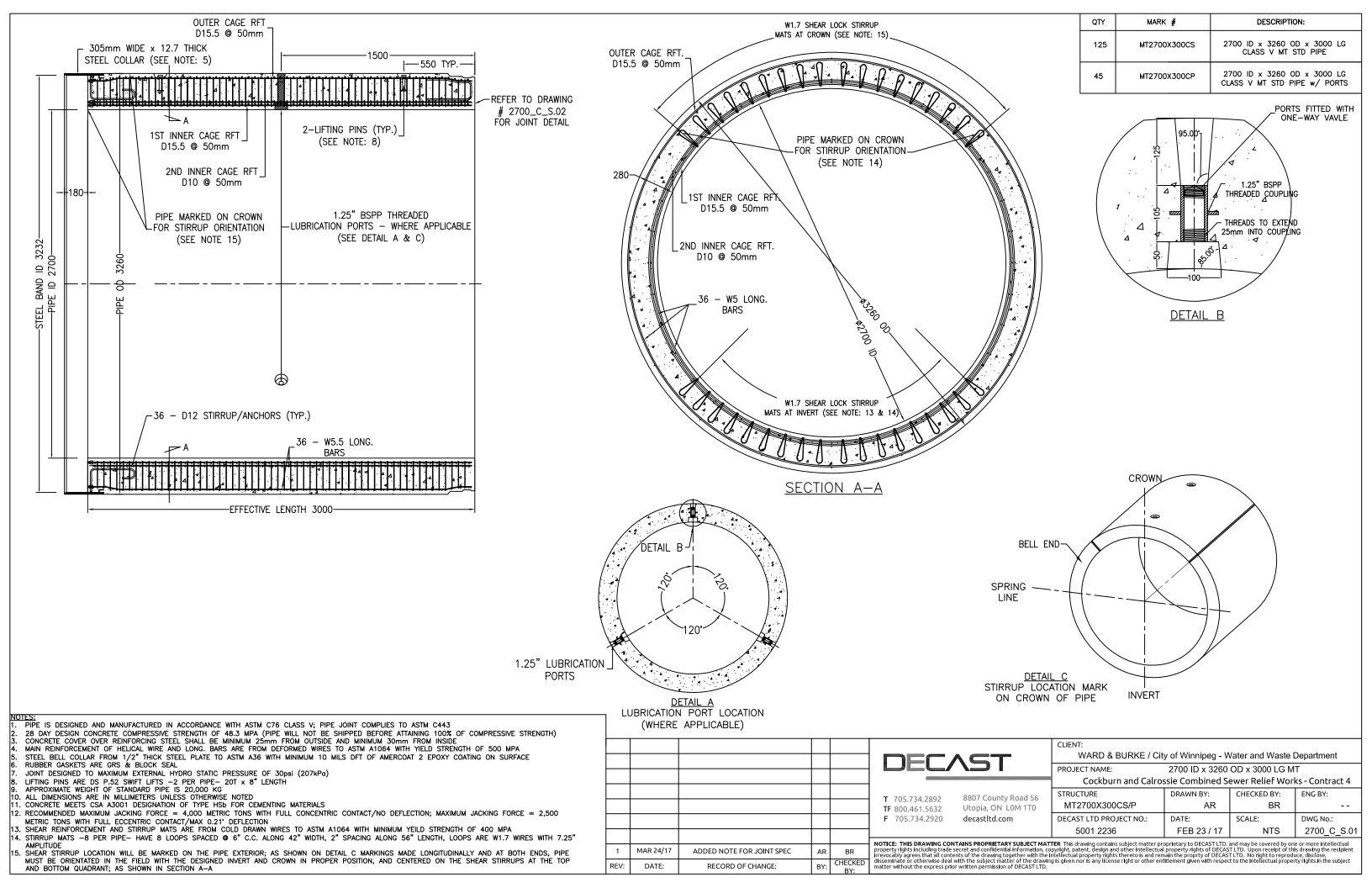


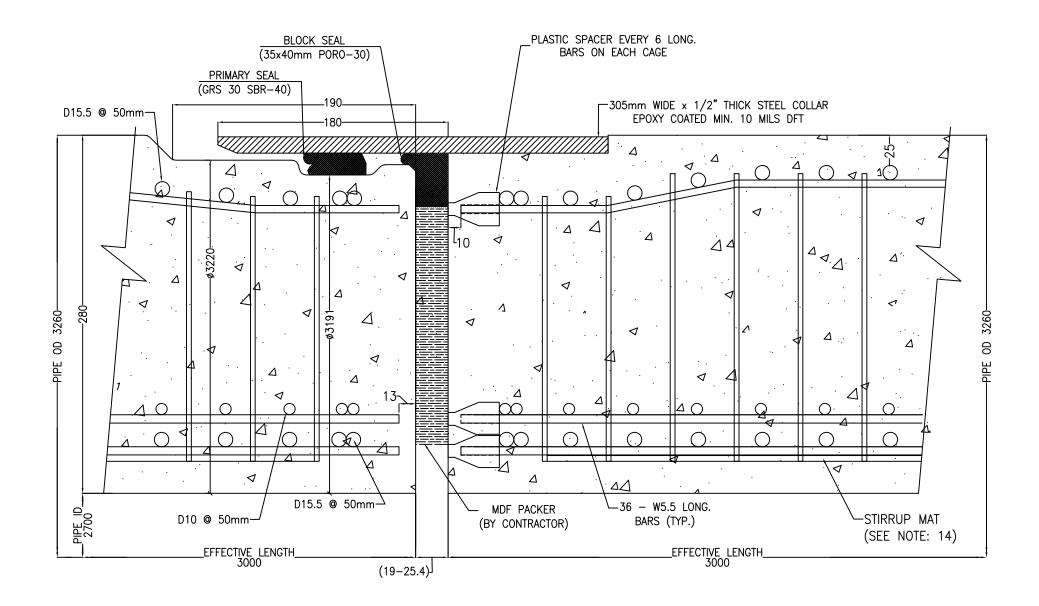






2700 mm Trunk – Contract 4 (Bid Opportunity 748-2016)





1. PIPE IS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C76 CLASS V; PIPE JOINT COMPLIES TO ASTM C443	
2. 28 DAY DESIGN CONCRETE COMPRESSIVE STRENGTH OF 48.3 MPA (PIPE WILL NOT BE SHIPPED BEFORE ATTAINING 100% OF COMPRESSIVE STRENGTH)	
3. CONCRETE COVER OVER REINFORCING STEEL SHALL BE MINIMUM 25mm FROM OUTSIDE AND MINIMUM 30mm FROM INSIDE	1
4. MAIN REINFORCEMENT OF HELICAL WIRE AND LONG. BARS ARE FROM DEFORMED WIRES TO ASTM A1064 WITH YIELD STRENGTH OF 500 MPA	
5. STEEL BELL COLLAR FROM 1/2" THICK STEEL PLATE TO ASTM A36 WITH MINIMUM 10 MILS DFT OF AMERCOAT 2 EPOXY COATING ON SURFACE	
6. RUBBER GASKETS ARE GRS & BLOCK SEAL	
7. JOINT DESIGNED TO MAXIMUM EXTERNAL HYDRO STATIC PRESSURE OF 30psi (207kPa)	
8. LIFTING PINS ARE DS P.52 SWIFT LIFTS -2 PER PIPE- 20T x 8" LENGTH	
9. APPROXIMATE WEIGHT OF STANDARD PIPE IS 20,000 KG	
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED	
11. CONCRETE MEETS CSA A3001 DESIGNATION OF TYPE HSb FOR CEMENTING MATERIALS	
12. RECOMMENDED MAXIMUM JACKING FORCE = 4,000 METRIC TONS WITH FULL CONCENTRIC CONTACT/NO DEFLECTION; MAXIMUM JACKING FORCE = 2,500	-
METRIC TONS WITH FULL ECCENTRIC CONTACT/MAX 0.21' DEFLECTION	
13. SHEAR REINFORCEMENT AND STIRRUP MATS ARE FROM COLD DRAWN WIRES TO ASTM A1064 WITH MINIMUM YEILD STRENGTH OF 400 MPA	 +
14. STIRRUP MATS -8 PER PIPE- HAVE 8 LOOPS SPACED @ 6" C.C. ALONG 42" WIDTH, 2" SPACING ALONG 56" LENGTH, LOOPS ARE W1.7 WIRES WITH 7.25"	

					DEC	ACT	CLIENT: WARD & BURKE / Cit	ty of Winnipeg - V	Vater and Waste	Department	
							PROJECT NAME: 2700 ID Cockburn and Calros	x 3260 OD x 300 sie Combined Se			
					T 705.734.2892 TF 800.461.5632	8807 County Road 56 Utopia, ON L0M 1T0	STRUCTURE MT2700X300CS/P	DRAWN BY: AR	CHECKED BY: BR	ENG BY: 	
					F 705.734.2920	decastltd.com	DECAST LTD PROJECT NO.: 5001 2236	DATE: FEB 24 / 17	SCALE: NTS	DWG No.: 2700_C_S.02	
1	MAR 24/17	ADDED NOTE FOR JOINT SPEC	AR	BR	NOTICE: THIS DRAWING CONTAINS PROPRIETARY SUBJECT MATTER This drawing contains subject matter proprietary to DECAST LTD. and may be covered by one or more intellectual property rights including trade secret and confidential information, copyright, patent, design and other intellectual property rights of DECAST LTD. Upon receipt of this drawing the recipient irrevocably agrees that all contents of the drawing together with the intellectual property rights and other intellectual property rights of DECAST LTD. No right to reproduce, disclose, disseminate or otherwise deal with the subject matter of the drawing is given nor is any license right or other entitlement given with respect to the intellectual property rights in the subject						
REV:	DATE:	RECORD OF CHANGE:	BY:	CHECKED BY:	disseminate or otherwise deal matter without the express pric	with the subject matter of the drawin or written permission of DECAST LTD.	ig is given nor is any license right or other en	titlement given with respec	t to the intellectual prope	rty rights in the subject	

STIRRUP MAIS -8 PER PIPE- HAVE 8 LOOPS SPACED @ 6" C.C. ALONG 42" WIDTH, 2" SPACING ALONG 56" LENGTH, LOOPS ARE W1.7 WIRES WITH 7.25 AMPLITUDE
 SHEAR STIRRUP LOCATION WILL BE MARKED ON THE PIPE EXTERIOR; AS SHOWN ON DETAIL C MARKINGS MADE LONGITUDINALLY AND AT BOTH ENDS, PIPE MUST BE ORIENTATED IN THE FIELD WITH THE DESIGNED INVERT AND CROWN IN PROPER POSITION, AND CENTERED ON THE SHEAR STIRRUPS AT THE TOP AND BOTTOM QUADRANT; AS SHOWN IN SECTION A-A

NOTES:

MARK #	DESCRIPTION:
MT2700X300CS/P	STANDARD 2700x3260 MT PIPE JOINT RFT

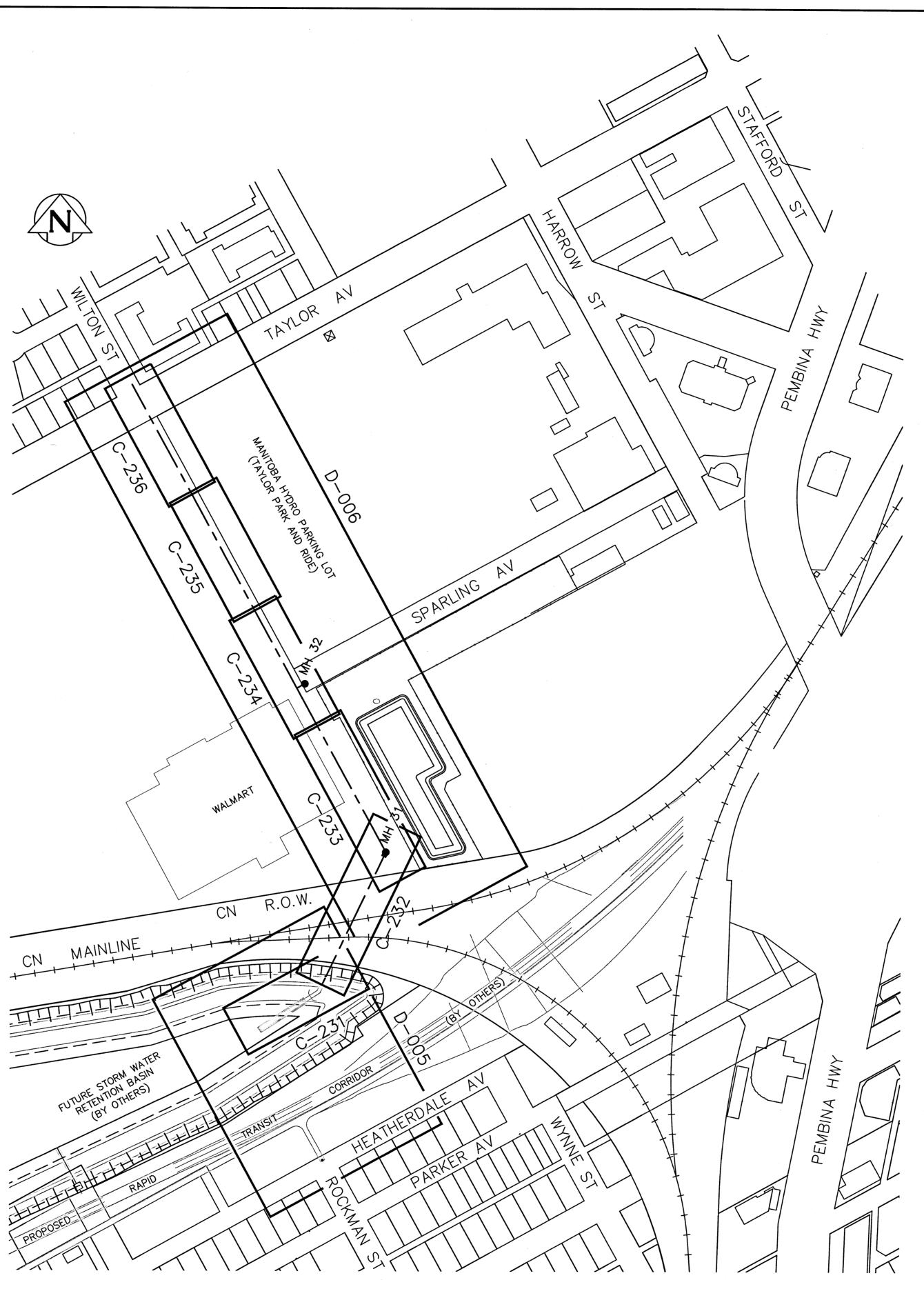


DRAWING INDEX

SHEET NUMBER	CONSULTANT DRAWING NUMBER	CITY DRAWING NUMBER	DRAWING TITLE
1	D-003	LD-7889	COVER
2	D-004	LD-7890	GENERAL PLAN AND MANHOLE SCHEDULE
3	D005	LD-7957	GENERAL SOUTH CONSTRUCTION ACCESS
4	D-006	LD-7958	GENERAL NORTH CONSTRUCTION ACCESS
5	C-231	LD-7891	FROM STA 1+000 TO 1+040
6	C-232	LD-7892	CN CROSSING - FROM STA 1+000 TO MH 31
7	C-233	LD-7893	WILTON STREET - FROM MH 31 TO STA 1+220
8	C-234	LD-7894	WILTON STREET - FROM STA 1+220 TO STA 1+310
9	C-235	LD-7895	WLTON STREET - FROM STA 1+310 TO STA 1+410
10	C-236	LD-7896	WILTON STREET - FROM STA 1+410 TO MH 32
11	C-502	LD-7897	RISER MANHOLE AND MONITORING POINT DETAILS
12	C-503	LD-7898	SPARLING AVENUE CONNECTION AND JACKING PIPE DETAILS

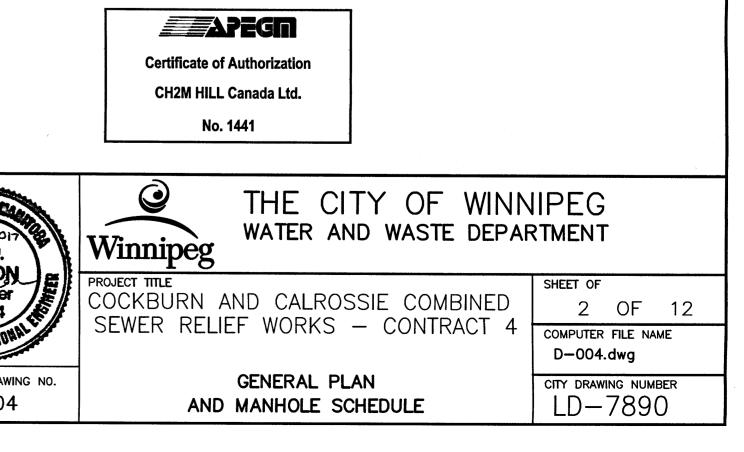
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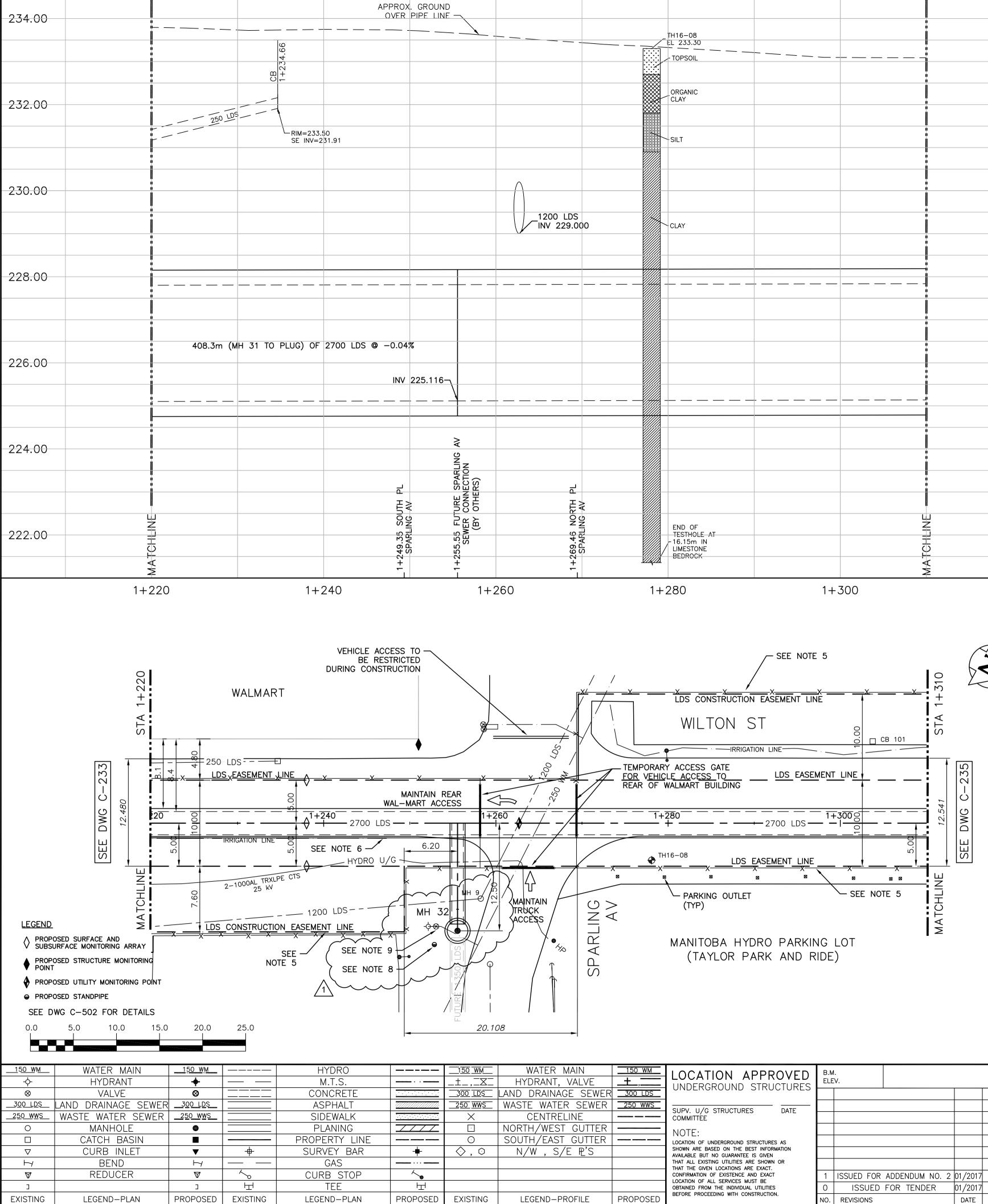
<u>key map</u>



KGS <u>GROUP</u> <u>CONSULTING</u> ENGINEERS B.M. Elev. ENGINEER'S ST ch2m: S. D. GODON Member 25524 DESIGNED BY CHECKED BY SDG MD DRAWN BY APPROVED BY RBO JBC RELEASED FOR CONSTRUCTION: DATE JANS/17 HOR. SCALE: N.T.S VERTICAL: -CONSULTANT DRAWING NO. ISSUED FOR TENDER 01/2017 JBC VERTICA REVISIONS DATE BY DATE 0 D-004 NO. REVISIONS

MANHOLE SCHEDULE						
REFERENCE NORTHING EASTING						
MH 31	5523888.430	632474.894				
MH 32	5524017.519	632412.188				

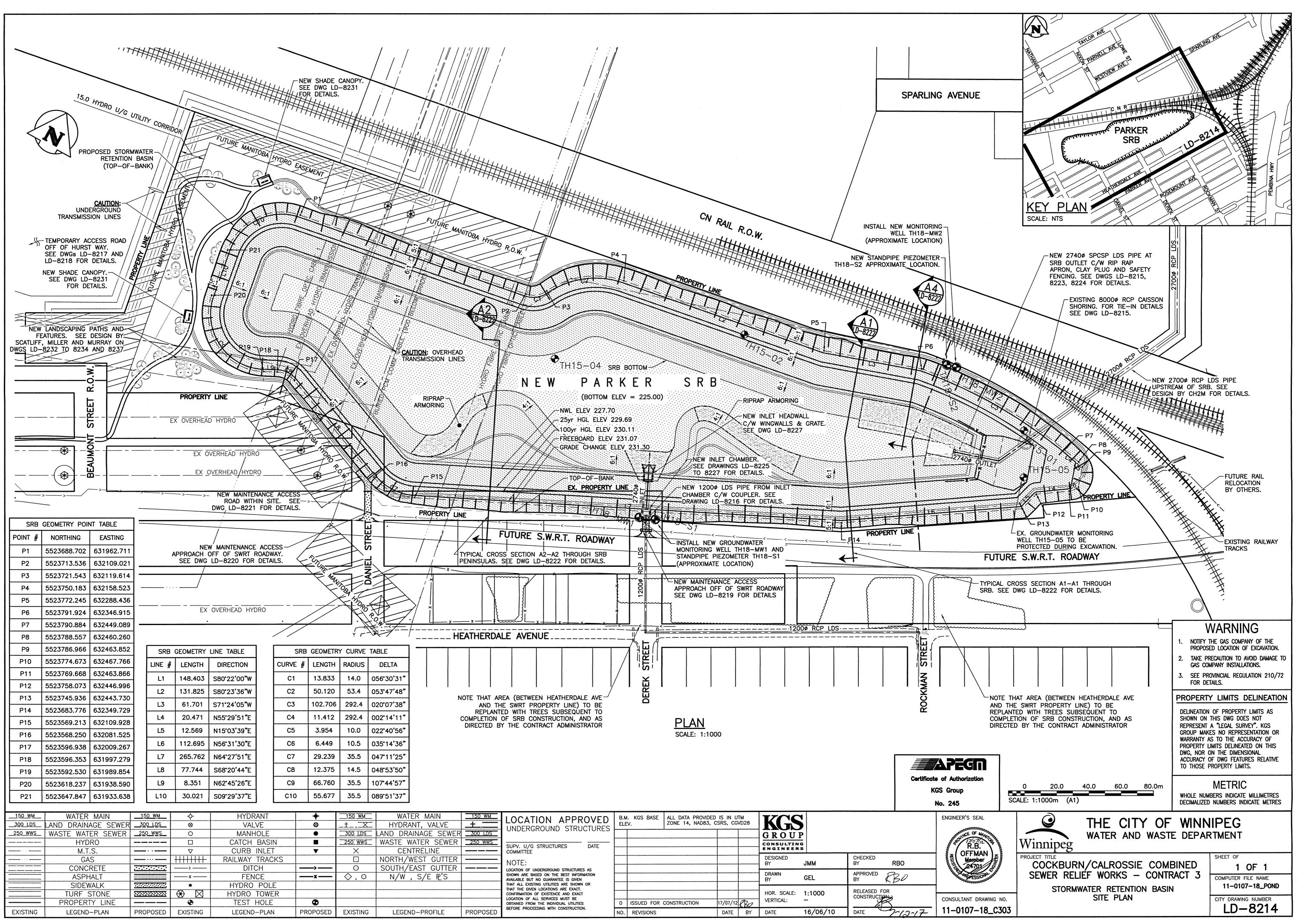


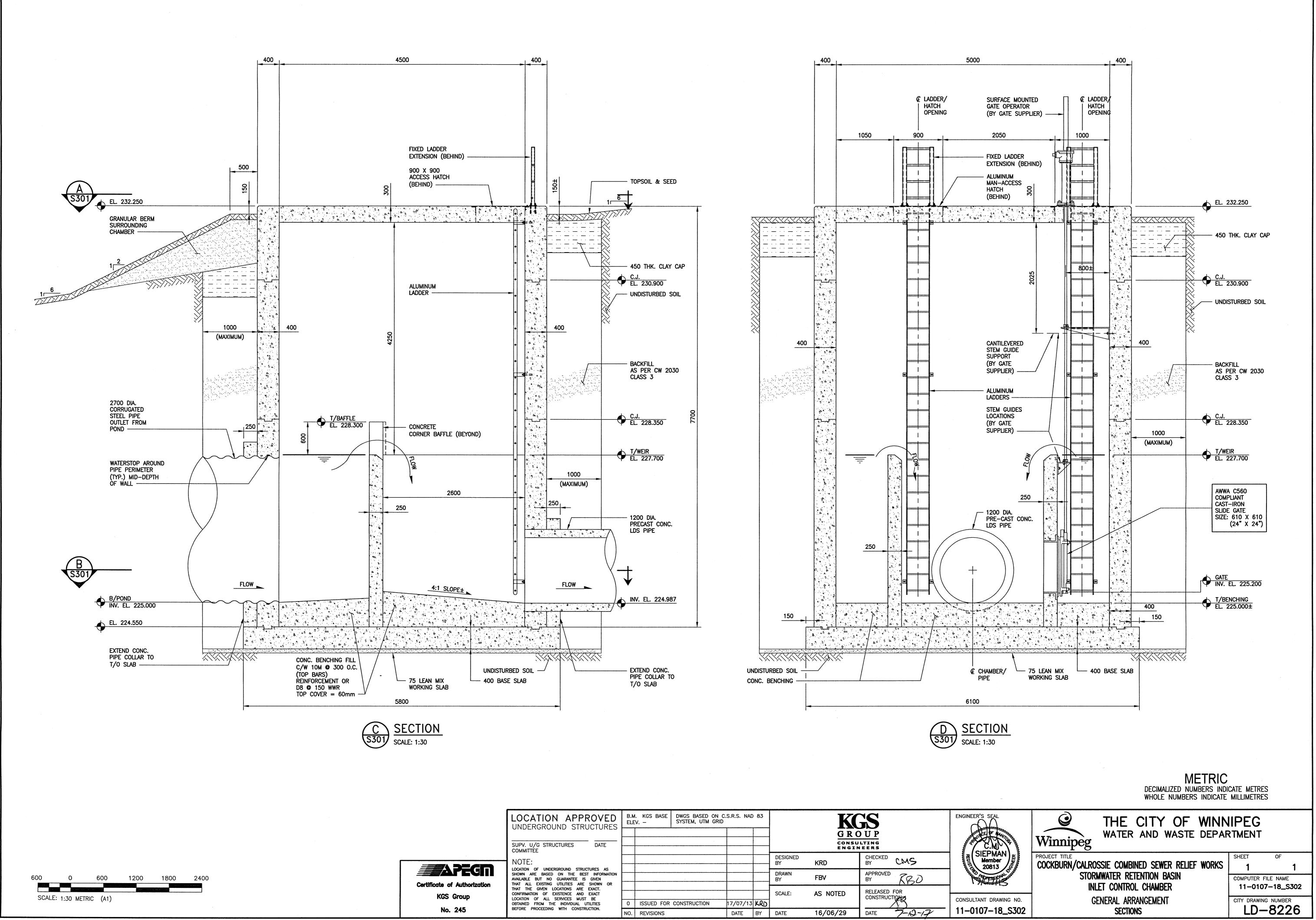


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CLAY		
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12.0m OF 1350 LDS @ 0.15%		
12.0m OF 1350 LDS @ 0.15%		
	226.00	
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INV 226.	.000	
INV 2265.116		
	224.00	
SPARLING AVENUE CONNEG	CTION	
SEE DWG C-503 FOR DETAILS		
INV 2265.116 INV 2265.116 SPARLING AVENUE CONNEC SEE DWG C-503 FOR DETAILS	222.00	
LIMESTONE		
1+280 1+300 ₩ARNING		
	SIVES ARE TO BE USED FOR EXCAVATION DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES	
ON THIS PROJECT THE CONTRACTO	SIVES ARE TO BE USED FOR EXCAVATION	
	OR MUST: NOT REPRESENT A "LEGAL SURVEY". CH2M HILL MAKES NO	
1) NOTIFY THE GAS COMPANY OF	OR MUST: F THE PROPOSED LOCATION OF EXCAVATION. DAMAGE TO GAS COMPANY INSTALLATIONS. NOT REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPE LIMITS DELINEATED ON THIS DRAWING, NOR ON THE DIMENSIONAL	RTY
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SEE NOTE 5	OR MUST: F THE PROPOSED LOCATION OF EXCAVATION. DAMAGE TO GAS COMPANY INSTALLATIONS. /72 FOR DETAILS NOT REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPE LIMITS DELINEATED ON THIS DRAWING, NOR ON THE DIMENSIONAL ACCURACY OF DRAWING FEATURES RELATIVE TO THOSE PROPERTY LIMITS.	RTY
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	LOCATION APPROVED UNDERGROUND STRUCTURES	B.M ELE				KGS			ENGINEER'S
<u>_DS</u>	SUPV. U/G STRUCTURES DATE					GROUP Consulting Engineers		ch2 _m :	201
	NOTE:					DESIGNED BY S	SDG	CHECKED BY MD	
	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					DRAWN BY	JBC	APPROVED BY	
	THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT	1	ISSUED FOR ADDENDUM NO. 2	01/2017	JBC		1:250	RELEASED FOR CONSTRUCTION:	
	LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES	0	ISSUED FOR TENDER	01/2017	JBC	VERTICAL: 1	1:50		
ED	BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	BY	DATE		DATE	— C·

Contract 3 (Bid Opportunity 388-2017)





LOCATION APPROVED UNDERGROUND STRUCTURES			DWGS BASED ON SYSTEM, UTM GRIE		83		K	GS	
SUPV. U/G STRUCTURES DATE							CONSU	OUP JLTING NEERS	AN C.
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OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	0 NO.	ISSUED FOR C REVISIONS	ONSTRUCTION	17/07/13 DATE	KRD BY	DATE	16/06/29	DATE 7-12-12	11-0107-

Contract 2 (Bid Opportunity 62-2016)

<u>DRAWING INDEX</u>

SHEET (NUMBER	CONSULTANT DRAWING NUMBER	CITY DRAWING NUMBER	DRAWING TITLE
1	D-001	LD-7799	COVER
2	D-002	LD-7800	GENERAL PLAN AND MANHOLE SCHEDULE
3	C-201	LD-7801	DEREK STREET - FROM STA 0+900 TO HEATHERDALE AV
4	C-202	LD-7802	HEATHERDALE AVENUE - FROM DEREK STREET TO STA 1+170
5	C-203	LD-7803	HEATHERDALE AVENUE - FROM STA 1+170 TO ROCKMAN STREET
6	C-204	LD-7804	ROCKMAN STREET - FROM HEATHERDALE AV TO STA 1+340
7	C-205	LD-7805	ROCKMAN STREET - FROM STA 1+340 TO STA 1+440
8	C-206	LD-7806	ROCKMAN STREET - FROM STA 1+440 TO BYNG PLACE
9	C-207	LD-7807	BYNG PLACE - FROM ROCKMAN STREET TO STA 1+650
10	C-208	LD-7808	BYNG PLACE CNR CROSSING
11	C-209	LD-7809	BYNG PLACE - PEMBINA HIGHWAY CROSSING
12	C-210	LD-7810	BYNG PLACE - FROM STA 1+830 TO STA 1+930
13	C-211	LD-7811	BYNG PLACE - FROM STA 1+930 TO STA 2+040
14	C-212	LD-7812	BYNG PLACE - FROM STA 2+040 TO STA 2+150
15	C-213	LD-7813	BYNG PLACE - FROM STA 2+150 TO MH 11
16	C-214	LD-7814	BYNG PLACE - FROM MH 11 TO EXISTING GATE CHAMBER
17	C-221	LD-7815	PARKER AVENUE - FROM STA 1+000 TO STA 1+110
18	C-222	LD-7816	PARKER AVENUE - FROM STA 1+110 TO STA 1+220
19	C-223	LD-7817	PARKER AVENUE - FROM STA 1+220 TO STA 3+330
20	C-224	LD-7818	PARKER AVENUE - FROM STA 1+330 TO STA 1+440
21	C-225	LD-7819	PARKER AVENUE - FROM STA 1+440 TO STA 1+550
22	C-226	LD-7820	PARKER AVENUE - FROM STA 1+550 TO MH 027
23	C-501	LD-7821	MISCELLANEOUS DETAILS
24	S-101	LD-7822	GATE CHAMBER CONNECTION
25	S-501	LD-7823	MISCELLANEOUS DETAILS

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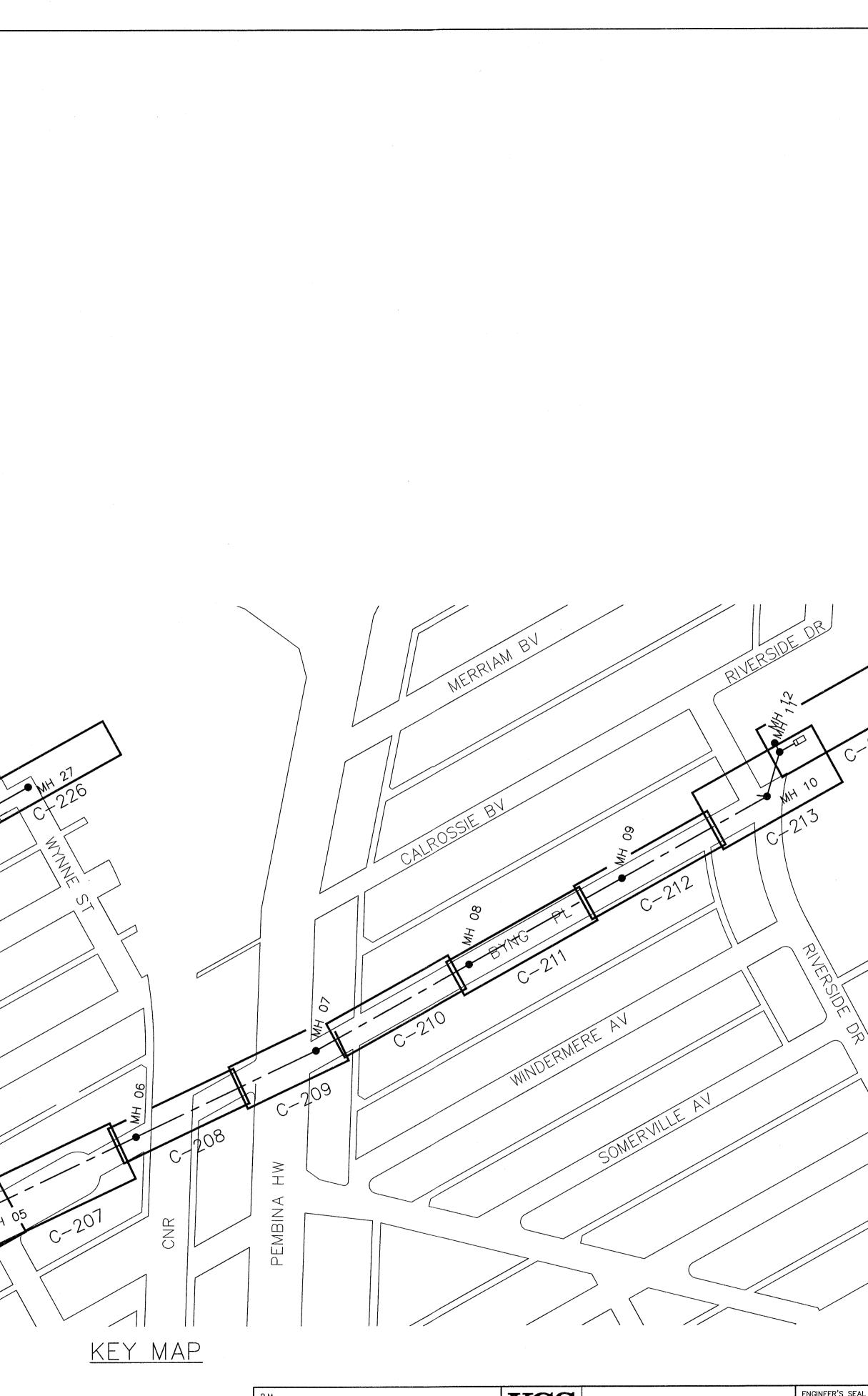
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CON	ISTRUCTION COMPLETION DATE: YYY	Y MM DD		
1	ISSUED FOR CONSTRUCTION	04/2016	JBC	
0	ISSUED FOR TENDER	02/2016	JBC	
NO.	REVISIONS	DATE	BY	

KGS GROUP CONSULTING ENGINEERS	h2m:	ENGINEER
DESIGNED BY SDG	CHECKED MAF	REGISTERED
DRAWN JBC	APPROVED BY ES	- A FAR
SCALE: HORIZONTAL 1: 250 VERTICAL 1: 50	RELEASED FOR CONSTRUCTION	CONSULT
DATE Muy 4, 2016 PLOT DATE: 2016 05 03	DATE 5/4/10	BID OPPOR

D-002 PORTUNITY: 62-2016

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REFERENCE	NORTHING	EASTING
MH 01	5523565.542	632276.010
MH 02	5523647.993	632424.814
MH 03	5523607.740	632447.050
MH 04	5523511.503	632500.326
MH 05	5523383.794	632571.083
MH 06	5523437.284	632684.060
MH 07	5523500.510	632817.600
MH 08	5523563.631	632931.247
MH 09	5523626.753	633044.894
MH 10	5523686.595	633152.636
MH 11	5523719.266	633161.982
MH 12	5523725.817	633158.344
MH 21	5523404.131	632079.704
MH 22	5523438.551	632141.803
MH 23	5523487.514	632230.141
MH 24	5523522.903	632293.989
MH 25	5523568.231	632375.768
MH 26	5523652.340	632527.517
MH 27	5523694.760	632604.047

RED

RIVER

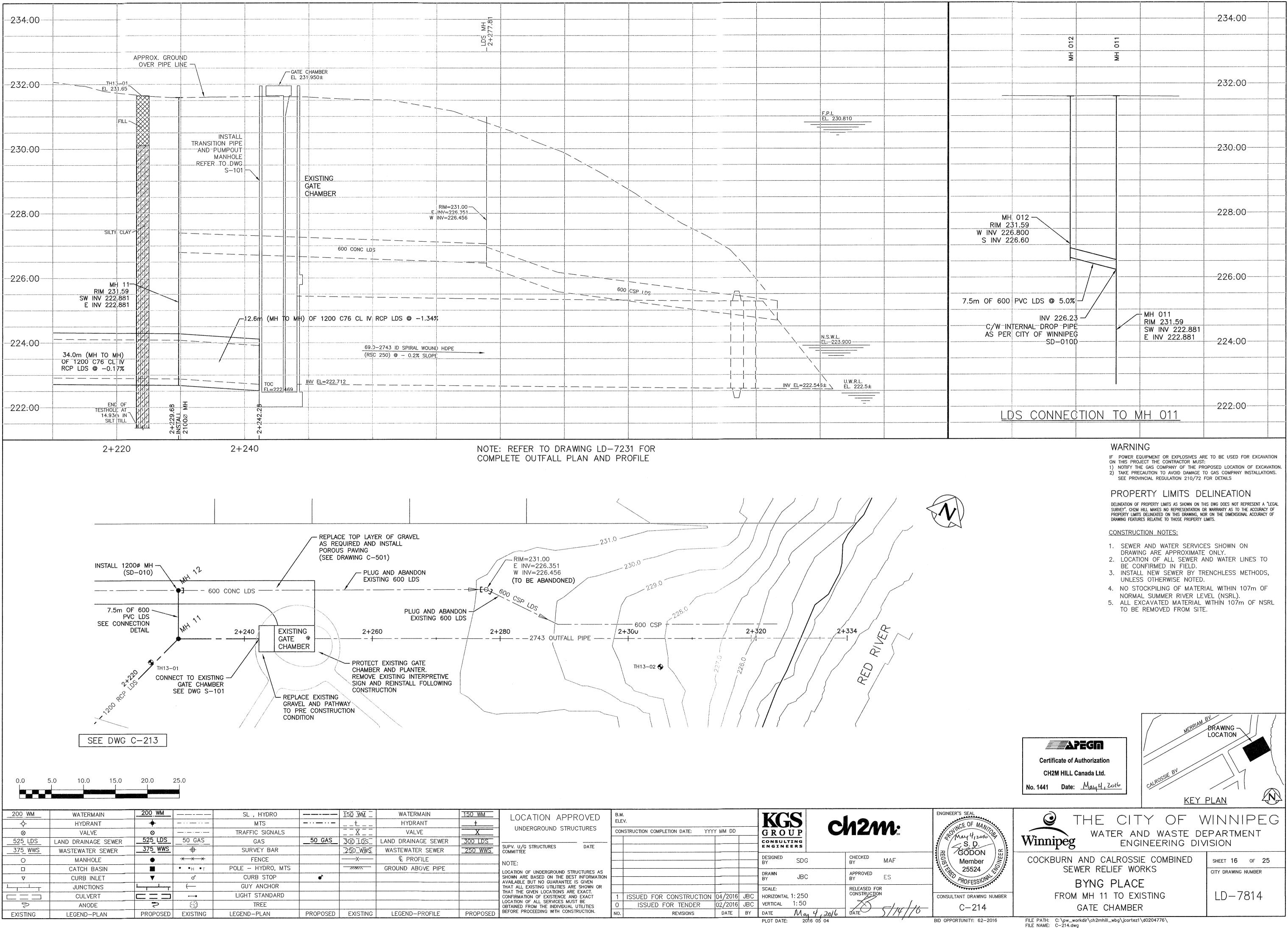


Certificate of Authorization CH2M HILL Canada Ltd. No. 1441 Date: May 4, 2016

TER'S SEAL \bigcirc THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION MAY 4, 2016 S. D. GODON Winnipeg COCKBURN AND CALROSSIE COMBINED SEWER RELIEF WORKS Member 25524 SHEET 2 OF 25 CITY DRAWING NUMBER PROFESSIONAL PPTTTTTTTT LD-7800 GENERAL PLAN AND MANHOLE SCHEDULE LTANT DRAWING NUMBER

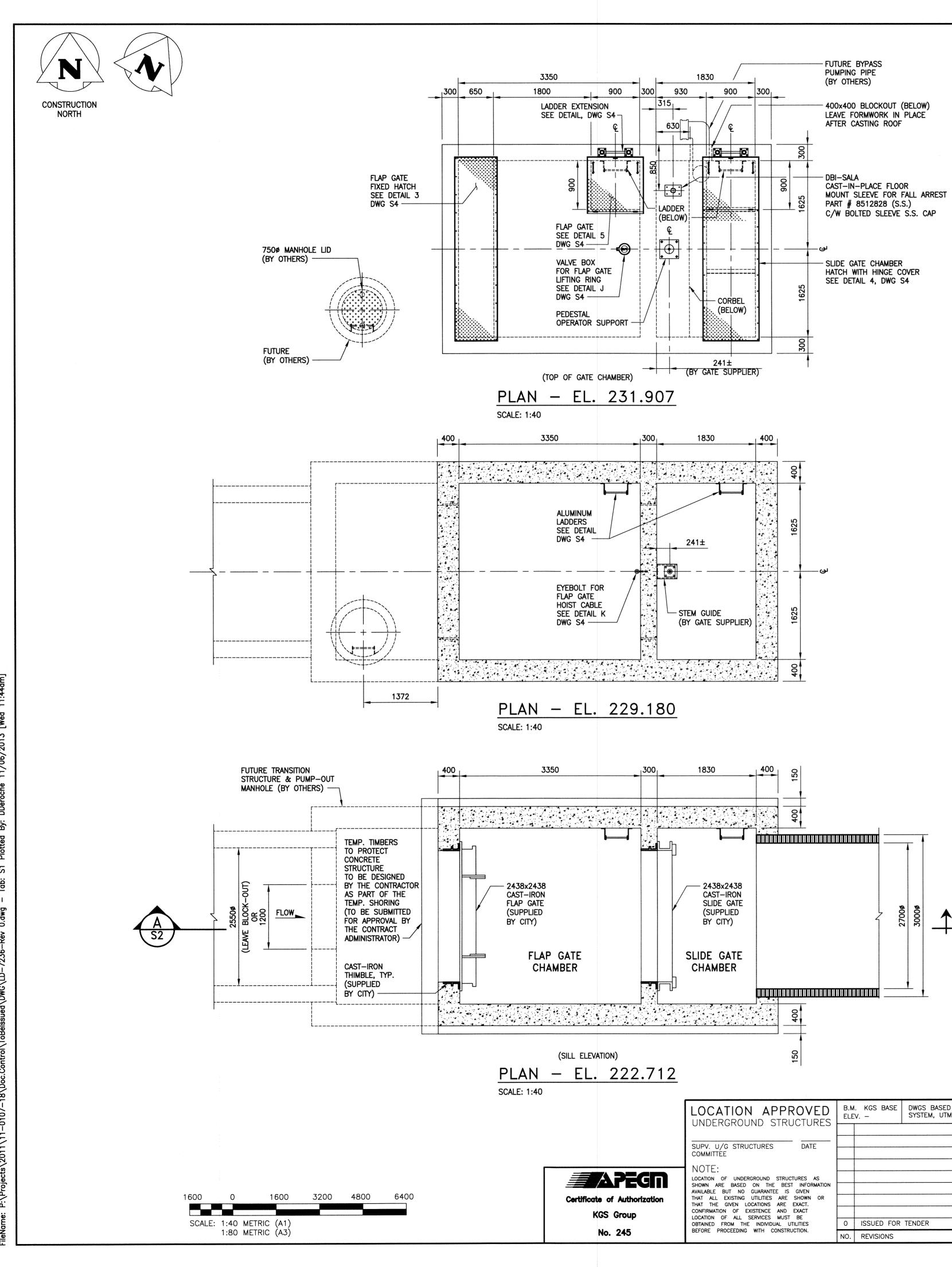
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Contract 1 (Bid Opportunity 915-2013)



LDS MH 2+277.81		MH MH 012	234.00
	F.P.L EL. 230.810		
			230.00
		MH 012 RIM 231.59 W INV 226.800 S INV 226.60	228.00
600 CSP 1DS			
	N.S.W.L. EL223.900	7.5m OF 600 PVC LDS () 5.0% // INV 226.23 MH 011 C/W INTERNAL DROP PIPE RIM 231.59 AS PER CITY OF WINNIPEG SW INV 222.881 E INV 222.881 E INV 222.881	
	U.W.R.L. U.W.R.L. EL. 222.5±	LDS CONNECTION TO MH 011	

50 WM + X 300 LDS	LOCATION APPROVED UNDERGROUND STRUCTURES	B.M ELE CON	۷.	Y MM DD		KGS GROUP CONSULTING ENGINEERS	h2m:	ENGINEER'S SE
250 WWS	COMMITTEE NOTE:					DESIGNED BY SDG	CHECKED BY MAF	REGIS Mer
	LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN					DRAWN BY JBC	APPROVED BY ES	A FID 25!
	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		04/2016		SCALE: HORIZONTAL 1: 250 VERTICAL 1: 50	RELEASED FOR CONSTRUCTION	CONSULTANT DR
PROPOSED	OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	0 NO.	ISSUED FOR TENDER REVISIONS	02/2016 DATE	JBC BY	DATE May 4,20/6	DATE 5/14/16	C



	LOCATION APPROVED UNDERGROUND STRUCTURES					AD 83	-	KCS GROUP CONSULTING ENGINEERS			ENGINEER'S
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pup	CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES	0	ISSUED FOR	TENDER	13/11/06	CMS	SCALE:	AS NOTED	CONSTRUCTION:		CONSULTAN
5	BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS		DATE	BY	DATE	13/10/16	DATE		11-01

GENERAL NOTES:

- 1. THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 9 OF THE NATIONAL BUILDING CODE (LATEST).
- 2. ALL SPECIFICATIONS AND CODES SPECIFIED SHALL BE THE LATEST REVISION AVAILABLE.
- 3. SITE VERIFY ALL DIMENSIONS, ELEVATIONS, DETAILS, QUANTITIES AND CONDITIONS PRIOR TO START OF ANY DEMOLITION, CONSTRUCTION OR PREFABRICATION OF ANY STRUCTURAL COMPONENT.
- 4. THE CONTRACTOR SHALL ENSURE THAT ALL BURIED SERVICES ARE LOCATED AND MARKED PRIOR TO EXCAVATION.
- 5. SHIP, STORE, HANDLE, ERECT, INSTALL, ETC. ALL BUILDING MATERIALS, COMPONENTS, FIXTURES, EQUIPMENT, ETC. AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 6. ALL DEMOLITION, FABRICATION, CONSTRUCTION, ETC. SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT BUILDING CODES, AND LOCAL BYLAWS AND ORDINANCES.
- 7. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PROJECT TECHNICAL SPECIFICATIONS.
- 8. DESIGN LOADS ARE AS FOLLOWS: FLOOR LIVE LOADS: SNOW LOAD:

FOUNDATION WALL LOADS: LIVE LOAD: $9_{\rm c} = 6.0$ kPa (SURCHARGE LOAD) $\delta_{\text{soll}} = 18 \text{ kN/m}^3$ SOIL LOAD:

AT REST LATERAL EARTH PRESSURE COEFFICIENT: Ko= 0.70

LATERAL PRESSURE ON WALL, $P = K_0 = (\gamma_{sol} \times H + Q)$, WHERE H = HEIGHT OF SOIL

9. DESIGN FLOOD LEVEL 1/700 YEAR EVENT: 230.810m.

SURVEY NOTES:

1. REFER TO MUNICIPAL DWG LD-7231 FOR SURVEY DETAILS.

REINFORCING STEEL:

- REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CSA G30.18 (LATEST). GRADE TO BE 400 MPa.
- 2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
- 3. BEND ALL HORIZONTAL REINFORCING 305mm AROUND CORNERS OR PROVIDE ADDITIONAL 610mm X 610mm ANGLE BARS.
- 4. TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
- 5. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

BASE SLAB (EXTERIOR FACES) BASE SLAB (INTERIOR FACES) FOUNDATION WALLS (EXTERIOR FOUNDATION WALLS (INTERIOR CHAMBER ROOF SLAB (TOP & INTERIOR WALLS

6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (LATEST).
- 2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA G40.20/G40.21 (LATEST).
- ROLLED SHAPES & PLATES CSA G40.21-300W
- 3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (LATEST), BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1 (LATEST). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.
- 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- 5. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FINISHED AS INDICATED BELOW, UNLESS OTHERWISE NOTED, OR APPROVED EQUAL .:

GALVANIZED STEEL - SURFACE PREP. TO SP8 (PICKLING)

- HOT DIPPED GALVANIZED TO CAN/CSA G164 (LATEST).

3.60 kPa 1.90 kPa

	75mm
	50mm
FACE)	75mm
FACE)	50mm
BOTTOM)	50mm
	50mm

CONCRETE:

- 1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1 (LATEST). SEE BELOW FOR MIX REQUIREMENTS.
- 2. ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED.
- 3. MIX WATER SHALL BE POTABLE.
- 4. DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.3 (LATEST). ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
- 5. CONTRACTOR SHALL SUBMIT SHORING SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION SHORING SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA AND EXPERIENCED IN THE STRUCTURAL DESIGN OF SHORING SYSTEMS.
- 6. CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1 (LATEST).
- 7. FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON-STAINING AND NON-VOLATILE.
- 8. PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
- 9. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE. CO-ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
- 10. LOCATE AND FABRICATE ALL CONSTRUCTION JOINTS. CONTROL JOINTS AND EXPANSION JOINTS AS DETAILED ON THE DRAWINGS. JOINTS NOT SHOWN SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
- 11. WATERSTOP TO BE HYDROTITE CJ-0725-3K OR APPROVED ALTERNATE NON-BENTONITE WATERSTOP.
- 12. ALL EXPOSED CORNERS TO HAVE 25mm CHAMFER FILLET UNLESS NOTED.
- 13. ADHESIVE ANCHORS SHALL BE HILTI HAS RODS COMPLETE WITH HY150 ADHESIVE OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
- 14. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA.A23.1.
- 15. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.

CONCRETE MIX DESIGNS:

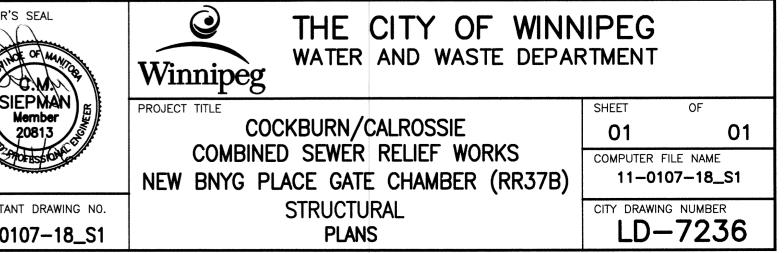
CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

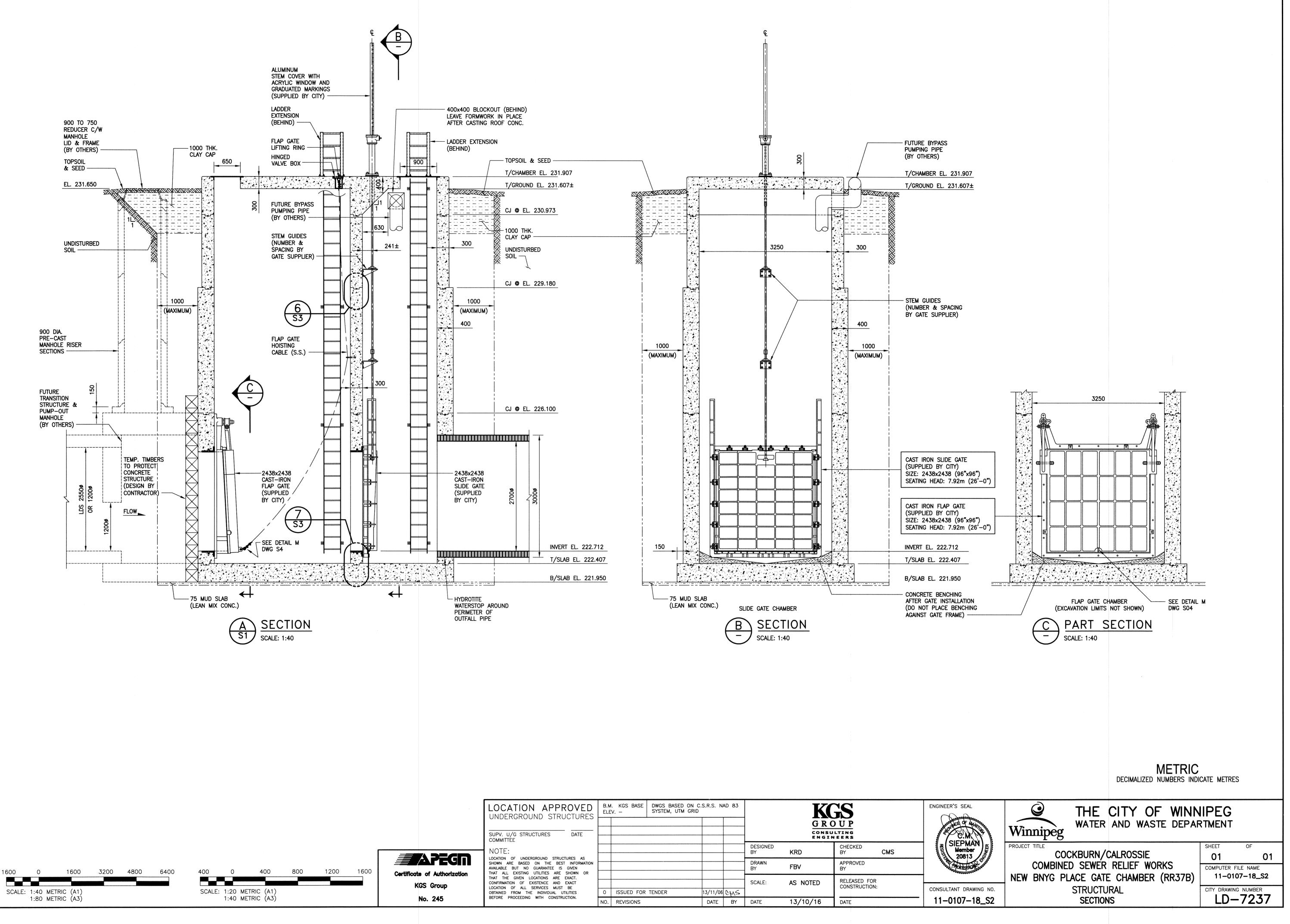
EXPOSURE CLASS	S—1
MIN. 28 DAY COMP. STRENGTH	35 MPa
CEMENT TYPE	TYPE 50 (HS
MAX. W/C RATIO	0.40
MAX. AGGREGATE SIZE	20mm
ENTRAINED AIR CONTENT	5% TO 8%
MAXIMUM SLUMP	80mm±20mm

ALUMINUM:

- 1. ALUMINUM SHALL BE IN ACCORDANCE WITH CAN/CSA S517 AND THE ALUMINUM ASSOCIATION "SPECIFICATION FOR ALUMINUM STRUCTURES". ALUMINUM FOR PLATES AND EXTRUDED SHAPES SHALL BE TYPE 6061-T651.
- 2. ALUMINUM WELDING SHALL BE AN ACCORDANCE WITH CSA W59.2 (LATEST) BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.2 (LATEST). ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED.
- 3. INSTALL NYLTITE ELECTROCHEMICAL ISOLATION GASKETS TO ELECTRICALLY ISOLATE DISSIMILAR METALS (SUPPLIER: SPAENAUR).
- 4. ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE TO HAVE BITUMINOUS ISOLATION COATING.
- 5. ALL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL & TYPE 316. MEETING ASTM F593/F738M.

METRIC DECIMALIZED NUMBERS INDICATE METRES WHOLE NUMBERS INDICATE MILLIMETRES





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	LOCATION APPROVED UNDERGROUND STRUCTURES		. KGS BASE V. –	DWGS BASED ON C. SYSTEM, UTM GRID	S.R.S. N	AD 83		GRC GRC CONSU	LTING		ENGINEER'S S
GM	NOTE: location of underground structures as shown are based on the best information available but no guarantee is given						DESIGNED BY DRAWN BY	KRD FBV	CHECKED BY APPROVED BY	CMS	Record SIEP
norization P	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.	0	ISSUED FOR	TENDER	13/11/06	CMS	SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:		CONSULTANT I
		NO.	REVISIONS		DATE	BY	DATE	13/10/16	DATE		11-0107