NOTE: CHAINAGES SHOWN ARE ALONG ℄ PATH EASEMENT

Profile labels (left to right along profile):
- CONNECT 610 OD DR9 HDPE TO 750 CMP (SEE DETAIL)
- INSTALL EXTERNAL SLIP JOINT
- INSTALL DEBRIS GRATE (SEE DETAILS)
- PROPOSED INV 231.000
- WL=231.15 (2018-10-11)
- EXISTING GROUND
- NO EXCAVATION PERMITTED FROM 1+55.0 TO 1+96.09
- INSTALL 18.6 – 750 CMP (2.8mm) C/W POLYMER COATING @ 3.07%
- INSTALL 46.0 – 610 OD DR9 HDPE @ 3.70% USING TRENCHLESS METHODS
- 300 CONC LDS
- 150 PVC WM
- 200 CONC WWS
- RIM 236.28 / S INV 233.76 / N INV 233.82 / E INV 234.53±
- RIM 236.28 / S INV 233.427 / W INV 233.427 / E INV 234.53± / N INV 233.82
- RIM 236.24 / S INV 230.25± / N INV 230.25± / E INV 232.81±

Profile chainage/station labels:
- 1+37.40 END OUTFALL
- 1+48.00 EXTERNAL SLIP JOINT
- 1+50
- 1+54.00 END 610 HDPE
- 1+56.00 END 750 CMP
- 1+75
- 1+96.09 W ℄ VALLEYVIEW DR
- 1+98.36 EXIST MH
- 2+00.00 EXIST MH (SD-011) INSTALL NEW MH
- 2+14.39 E ℄ VALLEYVIEW DR

END SECTION DETAIL
SCALE: N.T.S.
- 1.0 THICK RIPRAP
- 1.0 THICK CLAY PLUG
- 750ø (2.0mm) CMP C/W POLYMER COATING
- DEBRIS GRATE (SEE DETAILS ON LD-8871)
- 600 THICK RIPRAP

HDPE EXPANSION JOINT DETAIL
SCALE: N.T.S.
- 2.0 / 1.0 / 1.0
- PROPOSED 750 CMP
- PROPOSED 610 OD HDPE
- WRAP PIPE IN NON-WOVEN GEOTEXTILE WITHIN 1.0 ON EITHER SIDE OF MATERIAL TRANSITION
- COAT EXTERIOR OF HDPE WITH NON-BONDING AGENT (TO BE APPROVED BY THE CONTRACT ADMINISTRATOR)
- FILL ANNULAR SPACE BETWEEN HDPE AND CMP PIPE WITH 35 MPa GROUT

NOTE: CONTRACTOR TO SUBMIT SHOP DRAWING PRIOR TO CONSTRUCTION

HARVEST LANE

VALLEY VIEW DRIVE

SEE DWG LD-8864

Plan labels:
- NOTE: ACCESS FROM EAST SIDE OF STURGEON CREEK RESTRICTED TO EXISTING 1.5 WIDE PATH. CONTRACTOR TO DEVELOP ALTERNATE ACCESS AS REQUIRED FROM WEST TO FACILITATE CONSTRUCTION.
- INSTALL 18.6 – 750 CMP @ 3.70%
- INSTALL 4.0 x 6.0 x 600 THICK RIPRAP
- HYDRO POLE TO BE TEMPORARILY RELOCATED OR STABILIZED (SEE NOTE 3)
- REMOVE AND REPLACE EXISTING FENCING AS REQUIRED
- INSTALL 46.0 – 610 OD DR9 HDPE @ 3.70% USING TRENCHLESS METHODS (SEE NOTE 8)
- CONNECT NEW 610 OD DR9 HDPE OUTFALL AND 525 PVC DR35 LDS TO NEW MANHOLE
- LIGHT STANDARD TO BE TEMPORARILY REMOVED AND RE-INSTALLED (AS REQUIRED) (SEE NOTE 3)
- REMOVE EXISTING MANHOLE AND INSTALL NEW MANHOLE (SD-011)
- CONNECT EXISTING 525 CONC AND 300 CONC LDS TO NEW MANHOLE
- REMOVE MINIMUM 3.0 525 CONC LDS AND ABANDON PIPE
- CAUTION: GAS
- PLANTER
- 150 PVC WM
- 450 CONC WWS
- 525 CONC LDS
- 300 CONC LDS
- 200 CONC WWS
- 50 GAS
- 150 AC WM

NOTES:

1. ALL EXCAVATED MATERIAL WITHIN 107.0 OF THE REGULATED SUMMER RIVER LEVEL (RSRL) MUST BE REMOVED FROM SITE (NO STOCK PILING).

2. ALL TREES ADJACENT TO OUTFALL ALIGNMENT TO BE PROTECTED DURING CONSTRUCTION.

3. CONTRACTOR TO ARRANGE FOR TEMPORARY HYDRO SERVICE RELOCATIONS AND LINE RAISING WITH CONTRACT ADMINISTRATOR AND HYDRO. MANITOBA HYDRO CONTACT: NORM @ 204-360-7424.

4. RETAINING WALLS, PAVING STONES, FENCES, AND OTHER LANDSCAPING FEATURES TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

5. CONTRACTOR TO PROVIDE BARRICADES, WARNING SIGNS, AND TEMPORARY SAFETY FENCING CONCERNING WORK SITE.

6. ALL ROAD, CURB, SIDEWALK, AND BOULEVARDS TO BE RESTORED TO PRE-CONSTRUCTION CONDITION.

7. BOTH HDPE AND PVC PIPE TO MANHOLE CONNECTIONS TO USE FLEXIBLE BOOT.

8. TRENCHLESS PIPE INSTALLATION METHOD SHALL NOT IMPACT HOUSE FOUNDATIONS OF ADJACENT PROPERTIES. METHOD OF INSTALLATION TO BE SUBMITTED TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.

PROPERTY LIMITS DELINEATION
DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
0.0 5.0 10.0 15.0 20.0 25.0

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

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.

KGS GROUP
CONSULTING ENGINEERS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

	DESIGNED BY	NGV	CHECKED BY	RBO
	DRAWN BY	GEL	APPROVED BY	RBO
	SCALE: HORIZONTAL 1:250 VERTICAL 1:50		RELEASED FOR CONSTRUCTION	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R.B. OFFMAN
Member 24701

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2018 11 21	RBO
	DATE	2018 11 20	

CONSULTANT DRAWING NUMBER
18-0107-013_LD-8865

THE CITY OF WINNIPEG
Winnipeg
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2019 OUTFALL RENEWAL REHABILITATION PROGRAM
VALLEY VIEW DRIVE OUTFALL (NEW)
PLAN AND PROFILE

SHEET 9 OF 16
CITY DRAWING NUMBER
LD-8865

BID OPPORTUNITY: 1042-2018
CONTRACT NUMBER:
PLOT DATE: 2018 11 20
FILE PATH: P:\Projects\2018\18-0107-013\Dwg\Mun\
FILE NAME: 18-0107-013_PP.dwg