



CITY OF OTTAWA
SOUTH NEPEAN COLLECTOR (SNC)
SEWER PHASE 2 - STRANDHERD DRIVE
TO JOCKVALE ROAD

PLAN AND PROFILE
STA. 0+000 TO 0+300

Contract No. **ISD14-2033** Dwg. No. **019**
Sheet 19 of 51

Asset No. _____ Asset Group **ISD**

Wayne Newell, P.Eng. General Manager
Jonathan Knoyle, P.Eng. Senior Engineer

NOVATECH
Engineers, Planners & Landscape Architects
Suite 202, 240 Michael Coopers Drive
Kanata, Ontario, Canada, K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Email: novatech@novatech-eng.com

PROFESSIONAL ENGINEER
M.A. BISSETT
PROVINCE OF ONTARIO

Des. RJD Chk'd. ERD
Dwn. NCS Chk'd. RJD
Utility Circ. No. _____ Index No. _____
Const. Inspector _____

Scale: HORIZONTAL 1:500
VERTICAL 1:100

NOTE: The location of utilities is approximate only, the exact location should be determined by consulting the municipal authorities and utility companies concerned. The contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.

No.	Description	By	Date (dd/mm/yy)
1.	ISSUED FOR PRELIMINARY DESIGN CIRCULATION	ERD	21/12/15
2.	CHANGES TO ORIENTATION ACROSS KB SWM FACILITY	ERD	16/02/16
3.	ISSUED FOR PRELIMINARY DESIGN REPORT	ERD	02/03/16
4.	ISSUED FOR FINAL DESIGN CIRCULATION	ERD	29/04/16
5.	ISSUED FOR MOECC ECA APPLICATION	ERD	26/05/16
6.	ISSUED FOR TENDER	ERD	20/06/16
7.	ISSUED FOR CONSTRUCTION	ERD	30/08/16
8.	SEWER ALIGNMENT SHIFT ON GREENBANK	ERD	16/09/16
9.	REVISED PER MION SERVICING	ERD	08/12/16

LEGEND

EXISTING ITEMS

- WATERMAIN
- WATERMAIN VALVE
- STORM SEWER
- STORM MH
- CATCH BASIN & LEAD
- CULVERT
- STORM STRUCTURE
- SANITARY SEWER
- SANITARY MH

PROPOSED ITEMS

- SANITARY SEWER
- SANITARY MH & LID
- CULVERT
- FUTURE STRUCTURE T/G ADJUSTMENT

- NOTES:**
- CONCRETE PRESSURE PIPE SHALL BE AWWA C301 (L) CL-16. FITTING SHALL BE DESIGNED TO THE SAME CRITERIA AS THE ADJACENT PIPE.
 - CONTRACTOR TO PROVIDE PIPE CLASS CALCULATIONS, AS PER AWWA C304 (DESIGN OF PRESTRESSED CONCRETE CYLINDER PIPE), BY THE PIPE MANUFACTURER, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
 - PIPE EMBEDMENT SHALL BE AS PER CITY OF OTTAWA DETAIL S6. SAND MAY BE USED AS PIPE COVER MATERIAL ABOVE THE SPRINGLINE.
 - A CLOTH DIAPER APPROVED BY THE PIPE MANUFACTURE SHALL BE PLACED AROUND EACH EXTERIOR JOINT RECESS AND FASTENED IN PLACE WITH EITHER WIRE OR STEEL STRAPPING STITCHED INTO ITS EDGES.
 - THE JOINT SHALL BE FILLED WITH MORTAR IN ONCE CONTINUOUS OPERATION AND PATTED OR MANIPULATED TO SETTLE THE MORTAR AND EXPEL AND ENTRAPPED AIR.
 - INTERIOR JOINTS SHALL BE FILLED WITH MORTAR AFTER BACKFILLING AND FINISHED SMOOTH WITH A TROWEL. CEMENT USED SHALL MEET THE REQUIREMENTS OF TYPE HS CEMENT (HIGH-SULPHATE-RESISTANCE), OR APPROVED EQUIVALENT.
 - THE INTERIOR OF THE JOINTS SHALL BE PROTECTED FROM CORROSION WITH EPOXY AND ZINC COATING APPLIED DURING FABRICATION.
 - THE INTERIOR STRUCTURAL CONCRETE CORE SHALL BE MANUFACTURED WITH TYPE HS CEMENT (HIGH-SULPHATE-RESISTANCE), OR APPROVED EQUIVALENT.
 - SEE MANHOLE DETAIL DRAWINGS ISD14-2033-36 TO ISD14-2033-45 FOR ADDITIONAL DETAILS

MAINTENANCE HOLE DATA

MH ID	STATION	OFFSET	STRUCTURE	COVER	T/G ELEV.	LOW. INV.
1	0+010.00	1.25R	OPSD 701.013	S24/S25	95.06	86.92
2	0+060.95	1.25R	OPSD 701.012	S24/S25	94.37	86.87
3	0+118.25	1.25R	OPSD 701.012	S24/S25	94.67	86.81
4	0+194.38	0.46R	OPSD 701.013	S24/S25	93.84	86.73
5	0+226.51	1.25R	OPSD 701.012	S24/S25	92.75	86.70
6	0+269.14	1.25R	OPSD 701.012	S24/S25	92.66	86.66

SANITARY SEWER PIPE DATA

CONNECTED STRUCTURES & INVERTS	DIA (mm)	LENGTH (m)	MATERIAL
SANMH 1 = 86.92 SANMH 2 = 86.87	900	50.95	AWWA C-301 (L)
SANMH 2 = 86.87 SANMH 3 = 86.81	900	57.30	AWWA C-301 (L)
SANMH 3 = 86.81 SANMH 4 = 86.73	900	76.07	AWWA C-301 (L)
SANMH 4 = 86.73 SANMH 5 = 86.70 SANMH 6 = 86.73	900	31.95	AWWA C-301 (L)
SANMH 5 = 86.70 SANMH 6 = 86.66	900	42.26	AWWA C-301 (L)
SANMH 6 = 86.66 SANMH 7 = 86.59	900	73.97	AWWA C-301 (L)

STATION	EXISTING ELEVATION	CHAINAGE	DESCRIPTION	INVERT ELEVATION	CHAINAGE	EXISTING ELEVATION
0+000	83.47	0+000		86.92	0+000	83.47
0+010	82.76	0+010		86.92	0+010	82.76
0+020	82.75	0+020		86.92	0+020	82.75
0+030	82.75	0+030		86.92	0+030	82.75
0+040	82.75	0+040		86.92	0+040	82.75
0+050	82.75	0+050		86.92	0+050	82.75
0+060	82.75	0+060		86.87	0+060	82.75
0+060.95	82.75	0+060.95		86.87	0+060.95	82.75
0+070	82.75	0+070		86.87	0+070	82.75
0+080	82.74	0+080		86.87	0+080	82.74
0+090	82.74	0+090		86.87	0+090	82.74
0+100	82.74	0+100		86.87	0+100	82.74
0+110	82.72	0+110		86.87	0+110	82.72
0+118.25	82.67	0+118.25		86.81	0+118.25	82.67
0+120	82.62	0+120		86.81	0+120	82.62
0+130	82.59	0+130		86.81	0+130	82.59
0+140	82.59	0+140		86.81	0+140	82.59
0+150	82.59	0+150		86.81	0+150	82.59
0+160	82.55	0+160		86.81	0+160	82.55
0+170	82.51	0+170		86.81	0+170	82.51
0+180	82.50	0+180		86.81	0+180	82.50
0+190	82.49	0+190		86.73	0+190	82.49
0+194.38	82.46	0+194.38		86.73	0+194.38	82.46
0+200	82.46	0+200		86.73	0+200	82.46
0+210	82.46	0+210		86.73	0+210	82.46
0+220	82.47	0+220		86.70	0+220	82.47
0+226.51	82.45	0+226.51		86.70	0+226.51	82.45
0+230	82.42	0+230		86.70	0+230	82.42
0+240	82.42	0+240		86.70	0+240	82.42
0+250	82.40	0+250		86.70	0+250	82.40
0+260	82.38	0+260		86.70	0+260	82.38
0+269.14	82.36	0+269.14		86.66	0+269.14	82.36
0+270	82.34	0+270		86.66	0+270	82.34
0+280	82.32	0+280		86.66	0+280	82.32
0+290	82.29	0+290		86.66	0+290	82.29
0+300	82.29	0+300		86.66	0+300	82.29