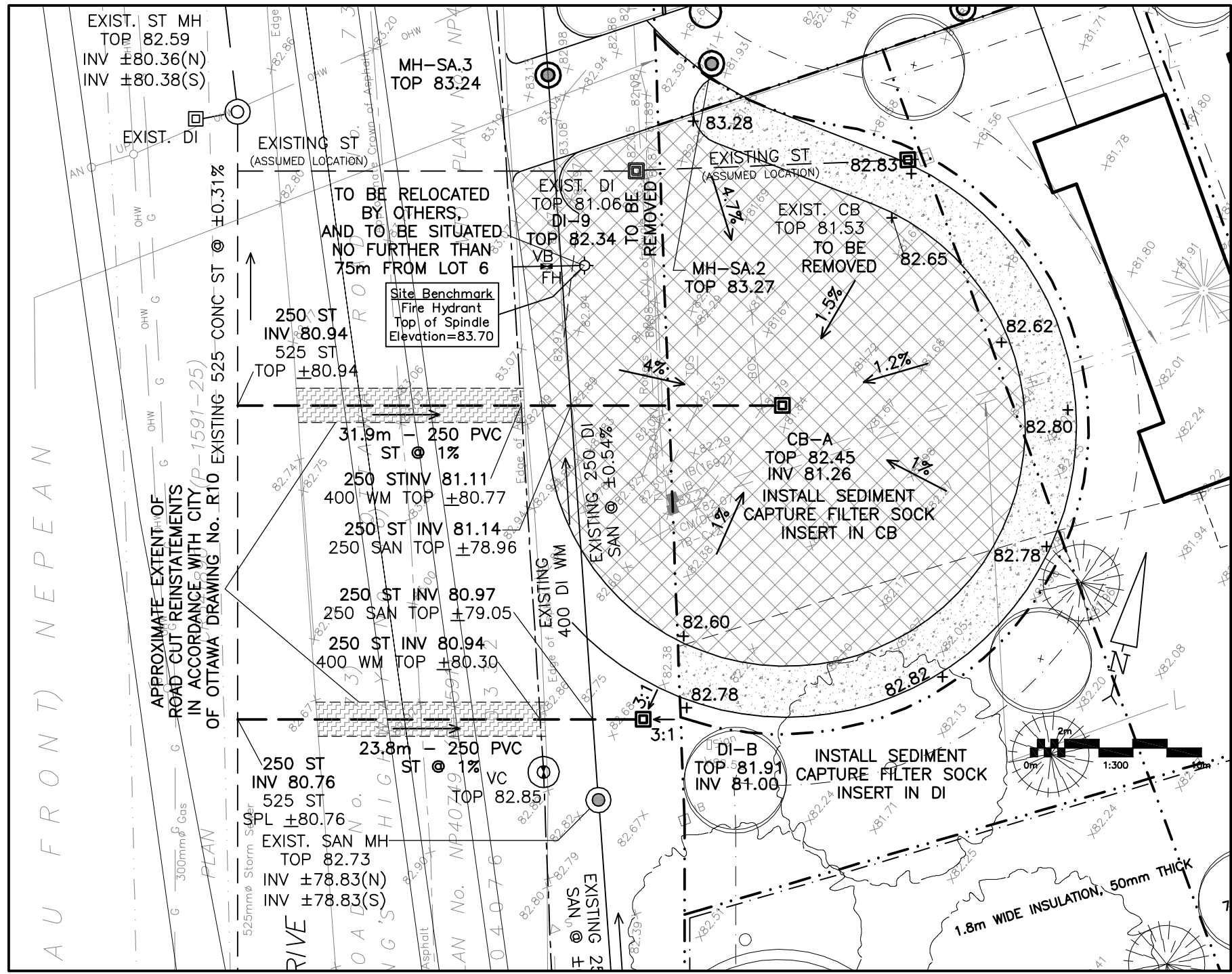


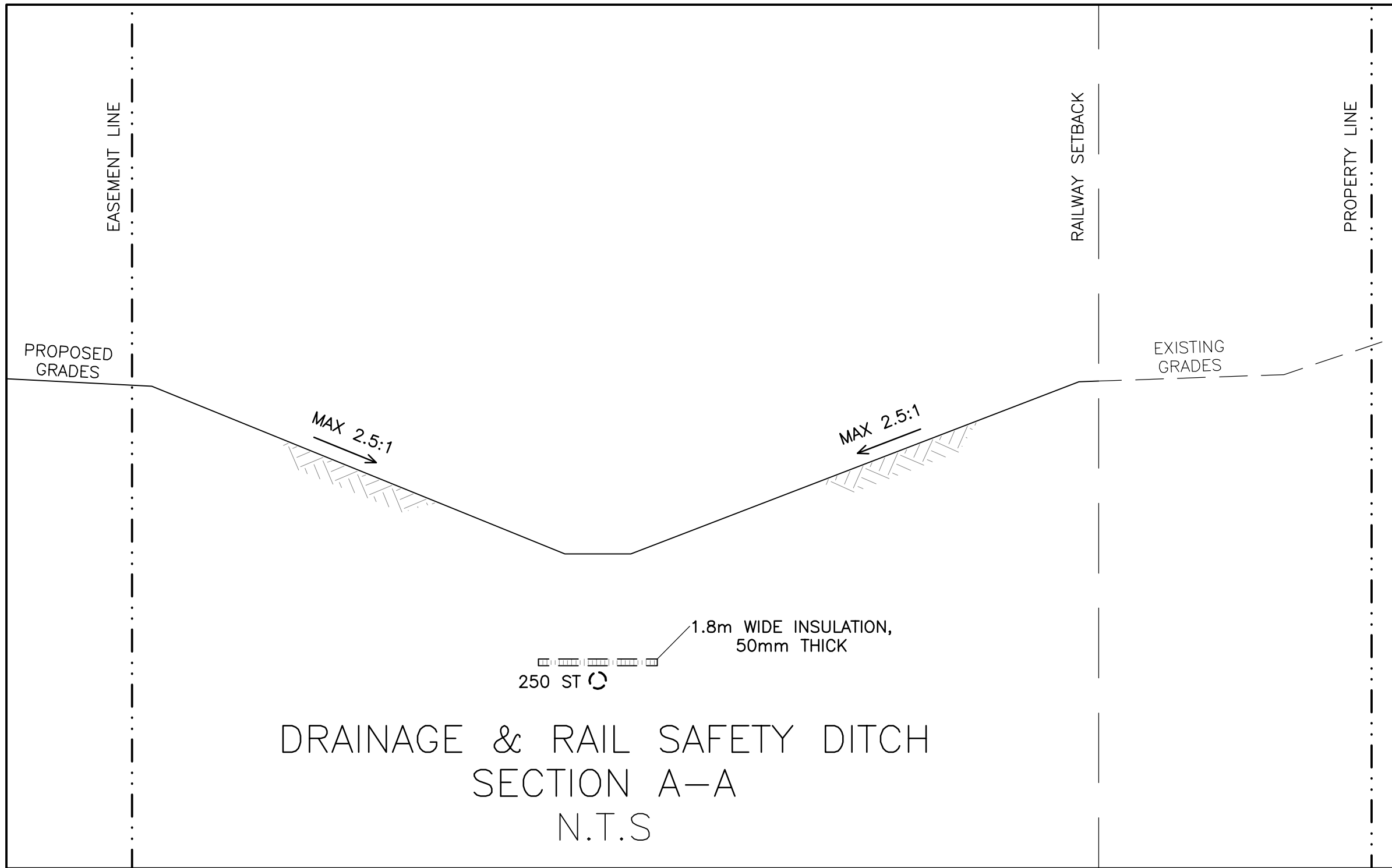


SERVICING & GRADING PLAN FOR POSSIBLE CONFIGURATION OF FUTURE CUL-DE-SAC
FINAL DESIGN TO BE COMPLETED BY CITY OF OTTAWA OR OTHERS

CATCH BASIN & MANHOLE SCHEDULE

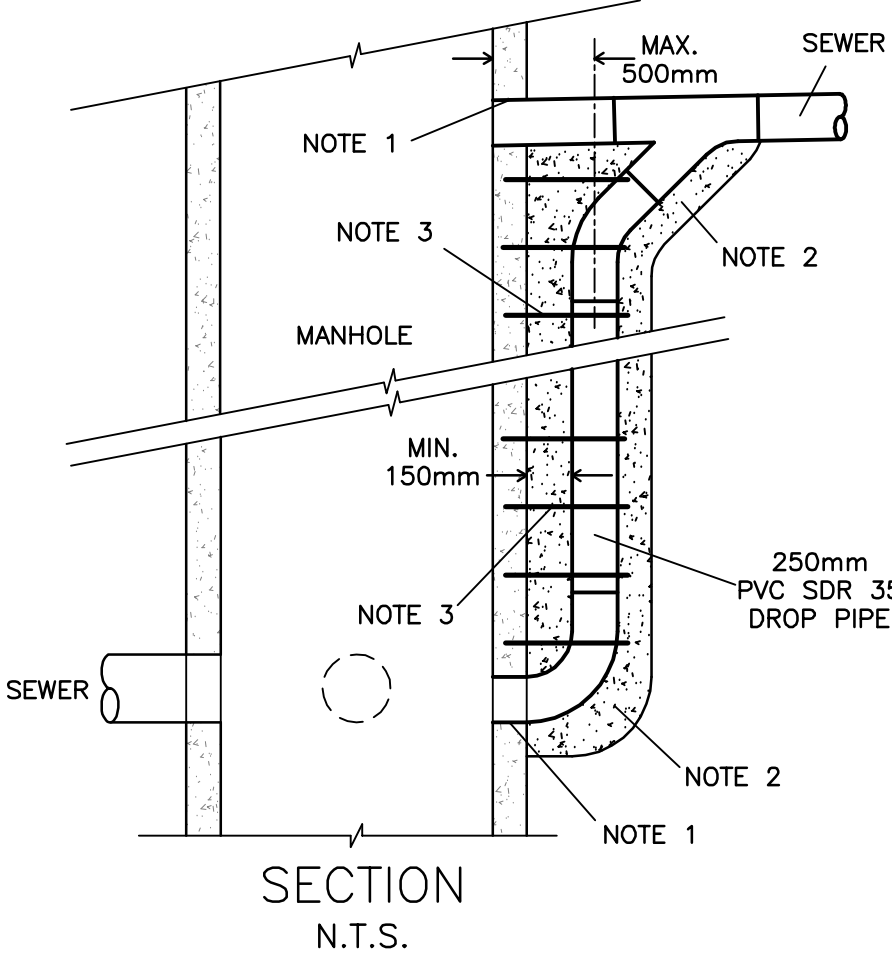
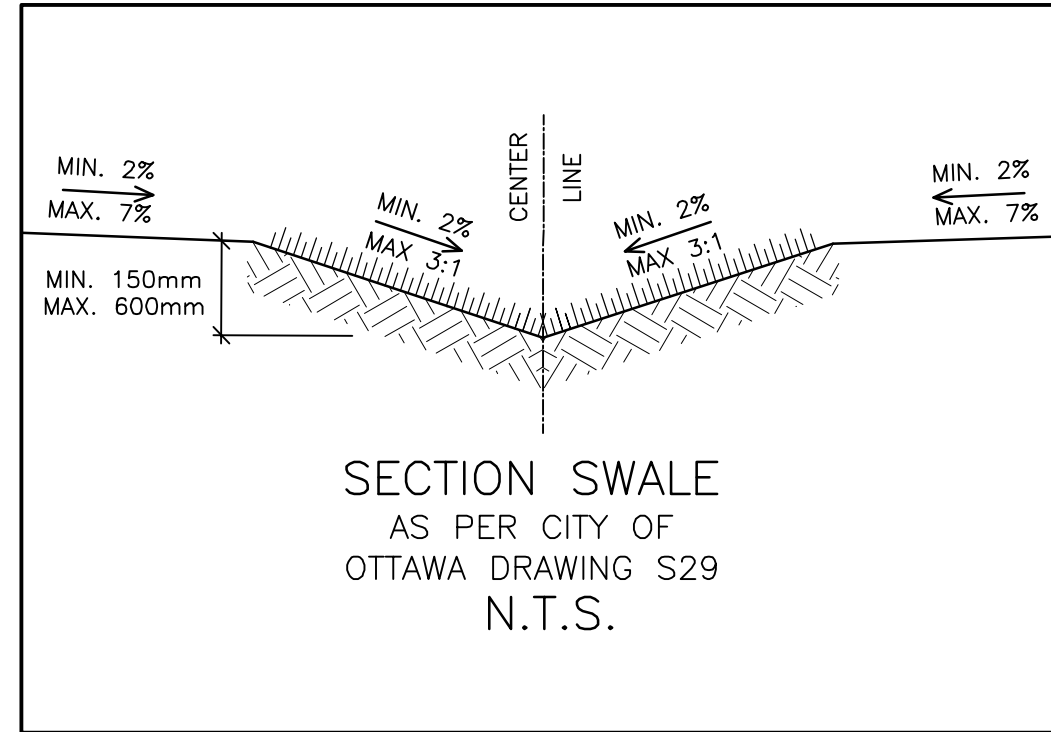
(SUBMIT SHOP DRAWINGS OF ALL CATCH BASINS & MANHOLES TO ENGINEER FOR APPROVAL)

REF	TOP	SIZE	TYPE	INVERT AT INLET	INVERT AT OUTLET	NOTES
STORM SEWER						
CB-1	82.12	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	81.27	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB-2	81.84	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	80.47	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB-3	82.06	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	80.45	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB/MH-4	82.90	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	-	80.26	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-4A	82.49	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	80.15(SW)	80.14(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
MH-5	82.20	CDS PMSU2015-4	OIL & GRIT SEPARATOR (OGS) PRECAST CONCRETE MANHOLE	80.01(SW)	79.98(E)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS EXCEPT WITH A DEEP SUMP AS REQUIRED BY CDS
CB/MH-6	82.27	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	79.92(W)	79.86(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-7	79.70	1500mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	-	78.05	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-7A	80.52	1200mm	PRECAST CONCRETE MANHOLE	77.74(SW)	77.73(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB/MH-8	80.45	1500mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	79.47(NW) 77.50(SW)	77.33(E)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
DI-9	82.34	600mm x 600mm	PRECAST CONCRETE DITCH INLET	UNKNOWN	UNKNOWN	TO OPSD 705.030 & CITY OF OTTAWA STANDARDS - GRATE TO OPSD 403.010 3:1 SLOPE
SANITARY SEWER						
MH-SA.1	82.18	1200mm	PRECAST CONCRETE MANHOLE	-	79.33	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24 OR OPSD 401.010
MH-SA.2	83.27	1200mm	PRECAST CONCRETE MANHOLE	78.74(NE)	78.71(W)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24 OR OPSD 401.010
MH-SA.3	83.24	1200mm	PRECAST CONCRETE MANHOLE	78.65(E) ±78.61(S)	±78.60(N)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24 OR OPSD 401.010

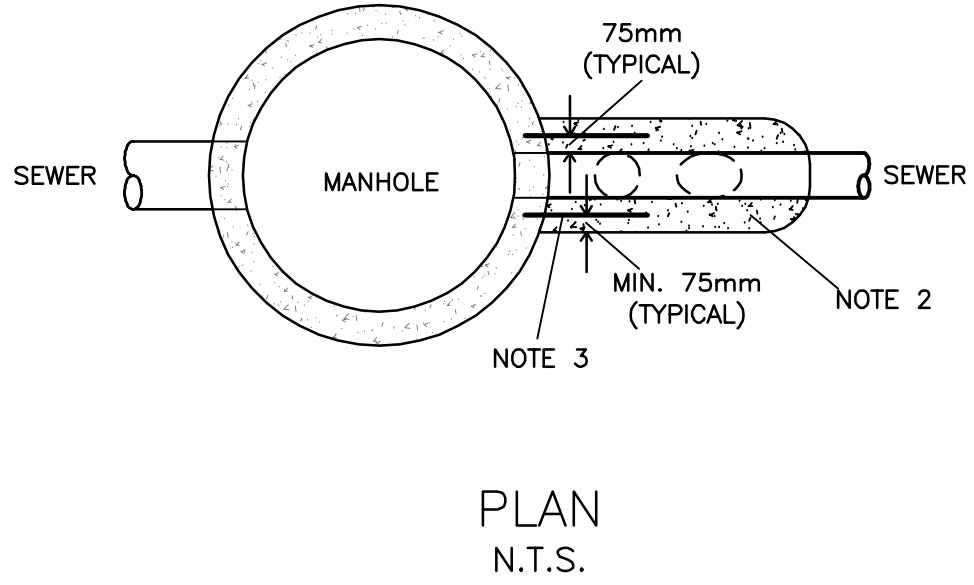


DRAINAGE & RAIL SAFETY DITCH
SECTION A-A
N.T.S.

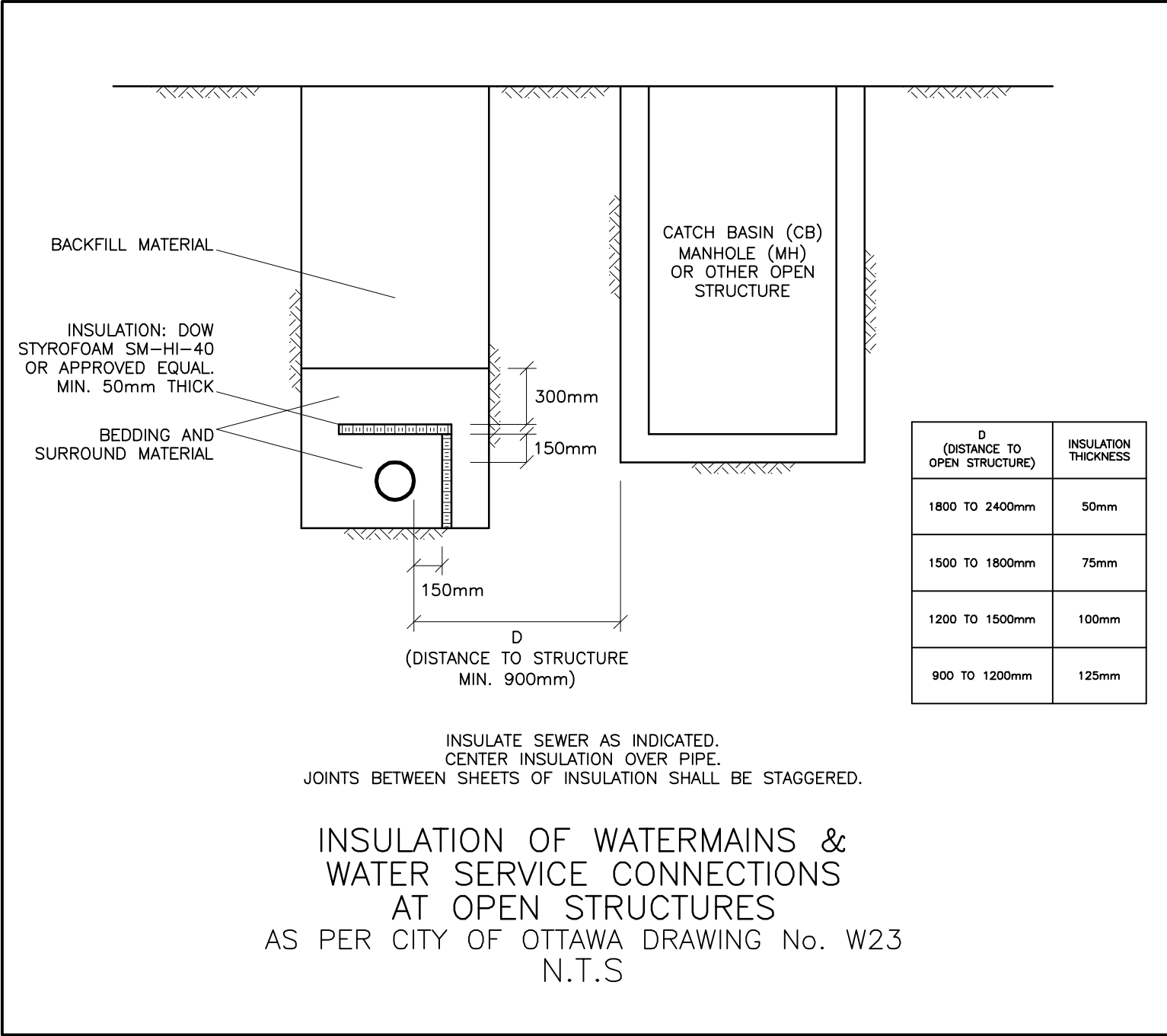
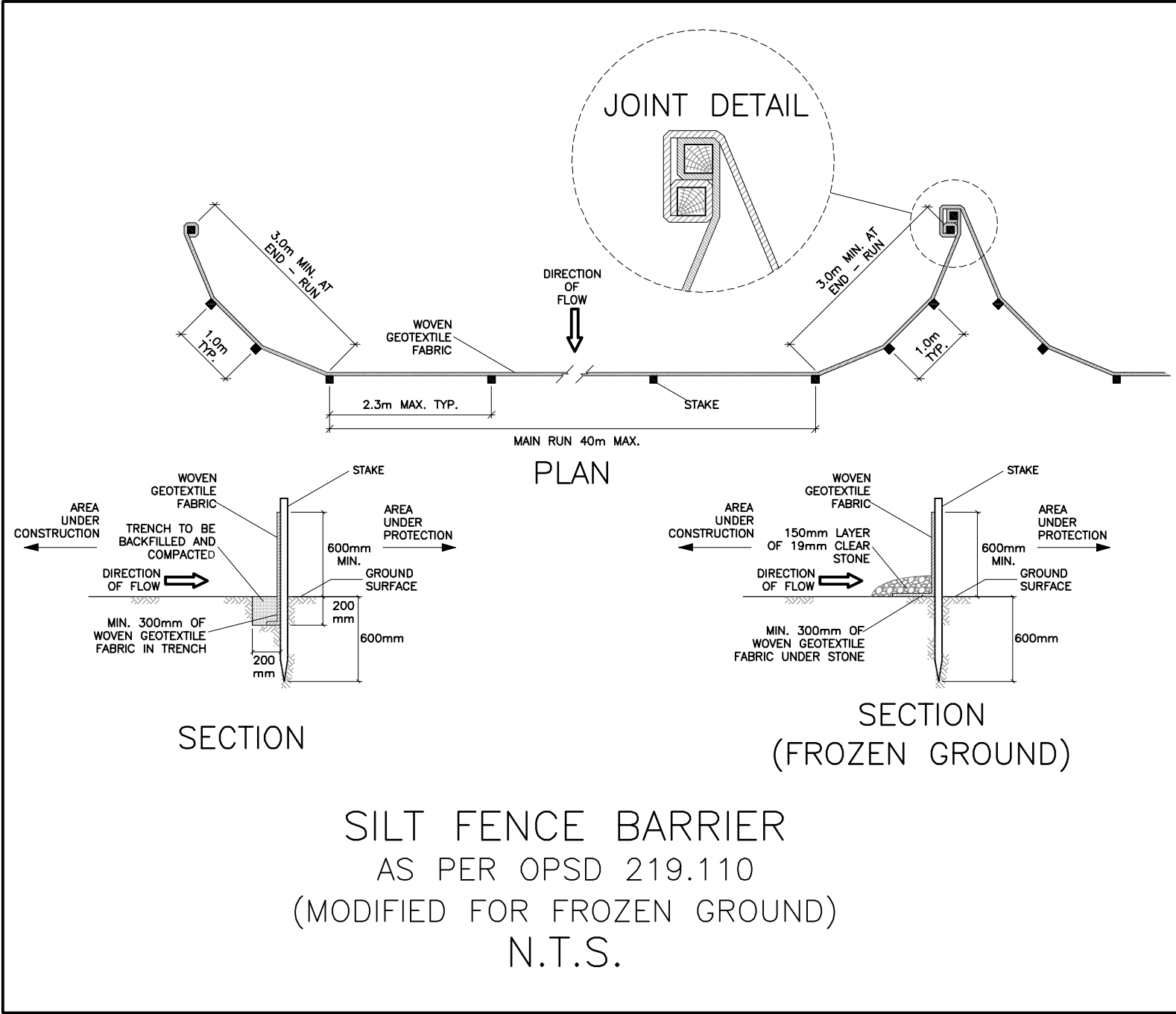
REFER TO NOTES
ON DRAWINGS C-10



DROP PIPE STRUCTURE
N.T.S.



NOTES:
1. DROP PIPES CONSTRUCTED AT EXISTING MANHOLES: MACHINE CORE DRILL INTO MANHOLE AND MAKE WATERTIGHT CONNECTION.
2. CONCRETE SHALL BE PLACED TO UNDISTURBED GROUND AND OUTSIDE FACE OF MANHOLE BUT THERE SHALL BE A MINIMUM OF 150mm OF 15MPa CONCRETE AROUND DROP PIPE.
3. CONCRETE SHALL BE SECURED TO THE MANHOLE WITH 450mm LONG 13mm DIAMETER THREADED RODS AND DRILLED EXPANSION ANCHORS DOWN EITHER SIDE OF DROP PIPE AT 300mm CENTERS.



KEY PLAN



No.	DATE	REVISION
5	APR 14-25	RE-ISSUED FOR APPROVAL
4	JAN 28-25	RE-ISSUED FOR APPROVAL
3	JUL 8-24	RE-ISSUED FOR APPROVAL
2	DEC 11-23	RE-ISSUED FOR APPROVAL
1	JUN 29-23	ISSUED FOR APPROVAL

D. B. GRAY ENGINEERING INC.
Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain
700 Long Point Circle
Ottawa, Ontario
613-425-8044
d.gray@dbgrayengineering.com

Project
**PROPOSED 7 LOT DEVELOPMENT
2009-2013 PRINCE OF WALES DR
OTTAWA, ONTARIO**

Drawing Title
**DETAILS
& SCHEDULES**

Engineer's Seal
D.B. GRAY
17016502
APR 14-25
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

Drawn
D.B.G.
H. Scale
1:300
V. Scale
Date JUN 29-23
Job No. 22055

Drawing No.
**C-9
of 10**