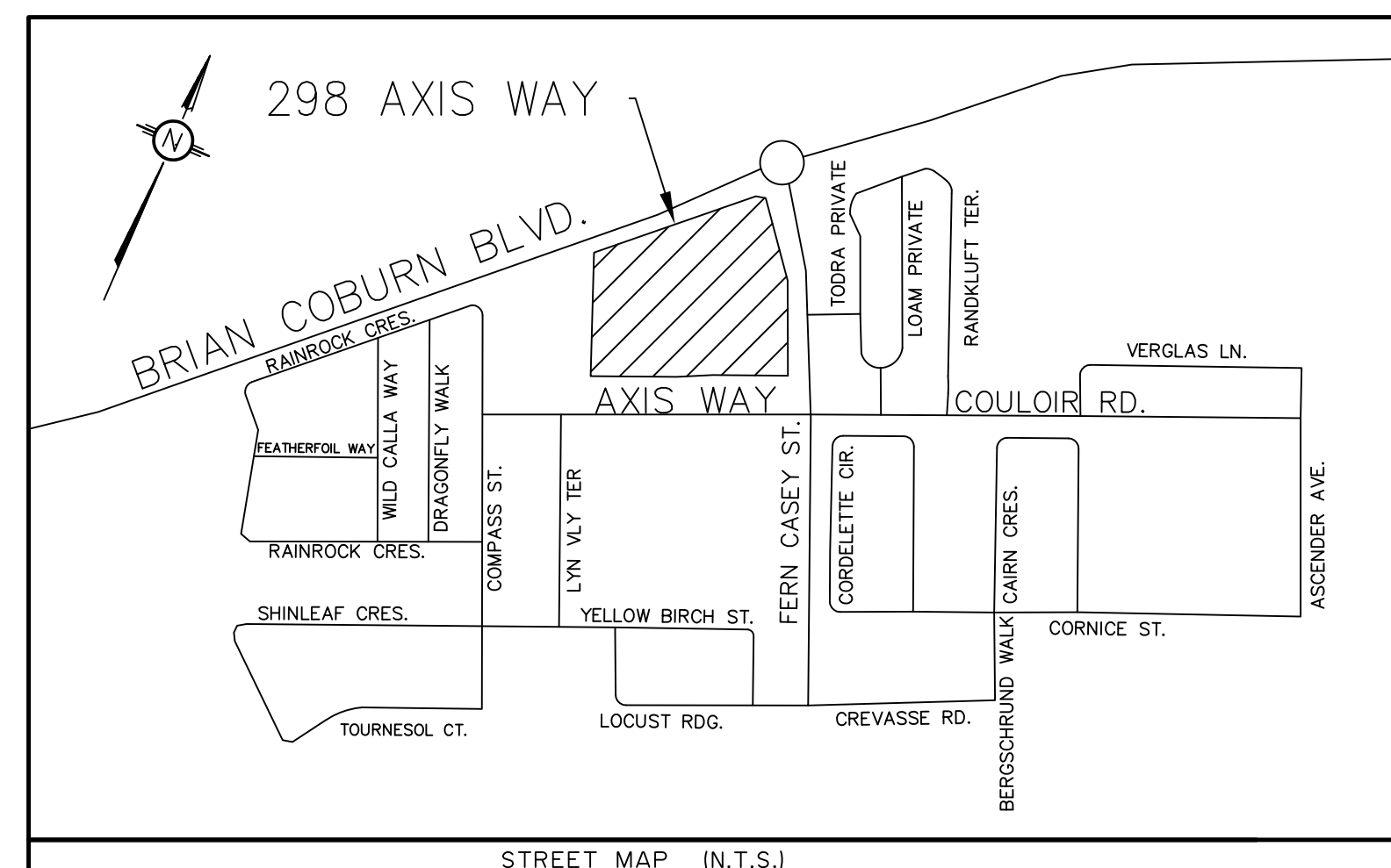




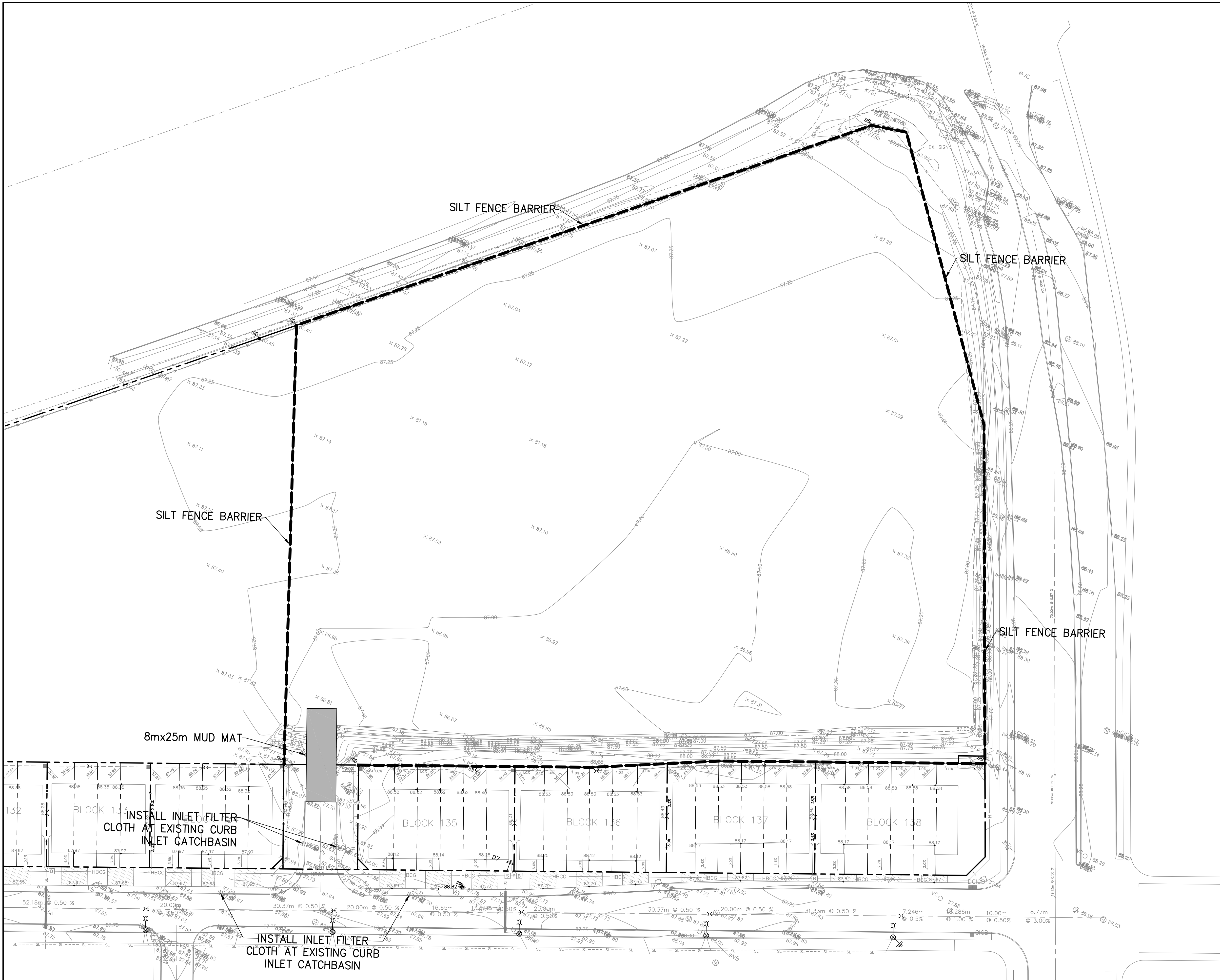
SITE SERVICING PLAN 298 AXIS WAY

CONTRACT NO. 240801



PLAN AND PROFILES

240801-ESC1	EROSION AND SEDIMENT CONTROL PLAN
240801-R1	REMOVAL PLAN
240801-S1	GENERAL PLAN OF SERVICES
240801-GR1	GRADING PLAN
240801-SAN1	SANITARY DRAINAGE AREA PLAN
240801-STM1	STORM DRAINAGE AREA PLAN
240801-PA1	PONDING AREA PLAN
240801-U1	COMPOSITE UTILITY PLAN (NOT INCLUDED)
240801-TD1	TYPICAL DETAILS AND TABLES



LEGEND

--- SILTATION CURTAIN

80 --- EXISTING ELEVATION CONTOUR

85.61 --- EXISTING SPOT ELEVATION

NOTES

- 1) ADDITIONAL TO THIS PLAN, THE CONTRACTOR SHALL IMPLEMENT THE "BEST MANAGEMENT PRACTICE" ALL ALONG CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, INSPECT, REPAIR AND REMOVE THE SEDIMENT AND EROSION CONTROL METHODS FROM ENTERING THE SEWER SYSTEM.
- 2) A SLUMP OF 600mm IN DEPTH WILL BE PROVIDED IN ALL CATCHBASINS IN ORDER TO MINIMIZE THE AMOUNT OF SUSPENDED SOLIDS FROM ENTERING THE SEWER SYSTEM.
- 3) DURING CONSTRUCTION, FILTER CLOTH WILL BE PLACED UNDER ALL PROPOSED CATCHBASIN AND MANHOLE FRAMES AND COVERS AND STRAW BALES WILL BE PLACED WHERE WATER RUNOFF CAN CARRY EXCESSIVE SEDIMENTS INTO THE SEWER SYSTEM. NO FILTER FABRIC IS TO BE PLACED UNDER ANY CB FRAME IN THE EXISTING R.O.W.. REFER TO PLAN FOR DETAILS.
- 4) STRAW BALES SHALL BE INSTALLED ALONG THE VARIOUS SWALES (MAN MADE OR EXISTING) WHERE JUDGED NECESSARY BY THE ENGINEER AND/OR THE CITY OF OTTAWA'S INSPECTOR.
- 5) STRAW BALES SHOULD BE INSTALLED AS PER OPSD 219.100 AND OPSD 219.110 AS APPROPRIATE.
- 6) STRAW BALES SHALL BE INSTALLED AT EVERY MAJOR POINT OF WATER ENTRY INCLUDING DITCH INLET CATCHBASINS AND CULVERTS, WHERE DITCH INLET CATCHBASINS AND CULVERTS ARE WITHIN EXISTING R.O.W.. SEDIMENT RETENTION FIBER ROLLS ARE TO BE USED.
- 7) ALL SEDIMENT CONTROL LOCATIONS MUST BE INSPECTED ON A REGULAR BASIS ESPECIALLY FOLLOWING A RAINFALL EVENT. SEDIMENTS SHALL BE REMOVED AND CONTROLS REINSTALLED AS NECESSARY.
- 8) SHOULD IT BE IMPOSSIBLE TO PREVENT OVERLAND SHEET FLOW TO AN EXTERNAL AREA DURING THE CONSTRUCTION PHASE, SUCH AREA SHALL BE PROTECTED WITH A SILT FENCE AS PER OPSD 219.110 AND/OR FILTER CLOTH IN CATCHBASINS.
- 9) FILTER CLOTH IN CBs SHOULD BE INSTALLED WITH GENEROUS EXCESS OF MATERIAL AROUND PERIMETER TO FACILITATE REMOVAL FOR CBs POTENTIALLY SUBJECTED TO HEAVY SEDIMENT LOADING. A GRANULAR "PRE-FILTERED" SHOULD BE PROVIDED AROUND PERIMETER OF CB OR AT INTERVALS ALONG THE CURB.
- 10) ANY MATERIAL STOCKPILES SHOULD BE LOCATED ON FLAT AREAS WELL AWAY FROM ANY DRAINAGE INLETS.
- 11) NO SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED UNLESS FOUND UNNECESSARY OR ANOTHER SEDIMENT CONTROL POINT IS INSTALLED ELSEWHERE TO REPLACE THE LATTER.
- 12) THE SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.
- 13) THIS PLAN IS A "LIVING DOCUMENT" AND THAT ANY MODIFICATION TO THE PLAN SHALL BE SUBMITTED TO THE SATISFACTION OF RVCA AND MAY BE MODIFIED BY RVCA STAFF.

PERSPECTIVE VIEW

PLAN

SECTION A-A

JOINT DETAIL

NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 [Rev] 3

**LIGHT-DUTY
SILT FENCE BARRIER**

OPSD 219.110

NOTE:
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STREET MAP

No.	REVISION	APPLIES WHEN DRAWING MODIFIED	DATE	BY
1	FIRST SUBMISSION		DEC. 06/24	AGS
2	SECOND SUBMISSION		APR. 24/25	AGS

SCALE

5m 0 1:500 15m

DESIGN

AGS

CHECKED AGS

DRAWN JSC

CHECKED AGS

APPROVED AGS

ATREL Engineering Ltd.

Engineers - Ingénieurs

1-2884 CHAMBERLAND STREET, ROCKLAND, ONTARIO K4K 1M6

TEL.: (613) 446-7423

CITY OF OTTAWA

298 AXIS WAY

MINTO COMMUNITIES INC.

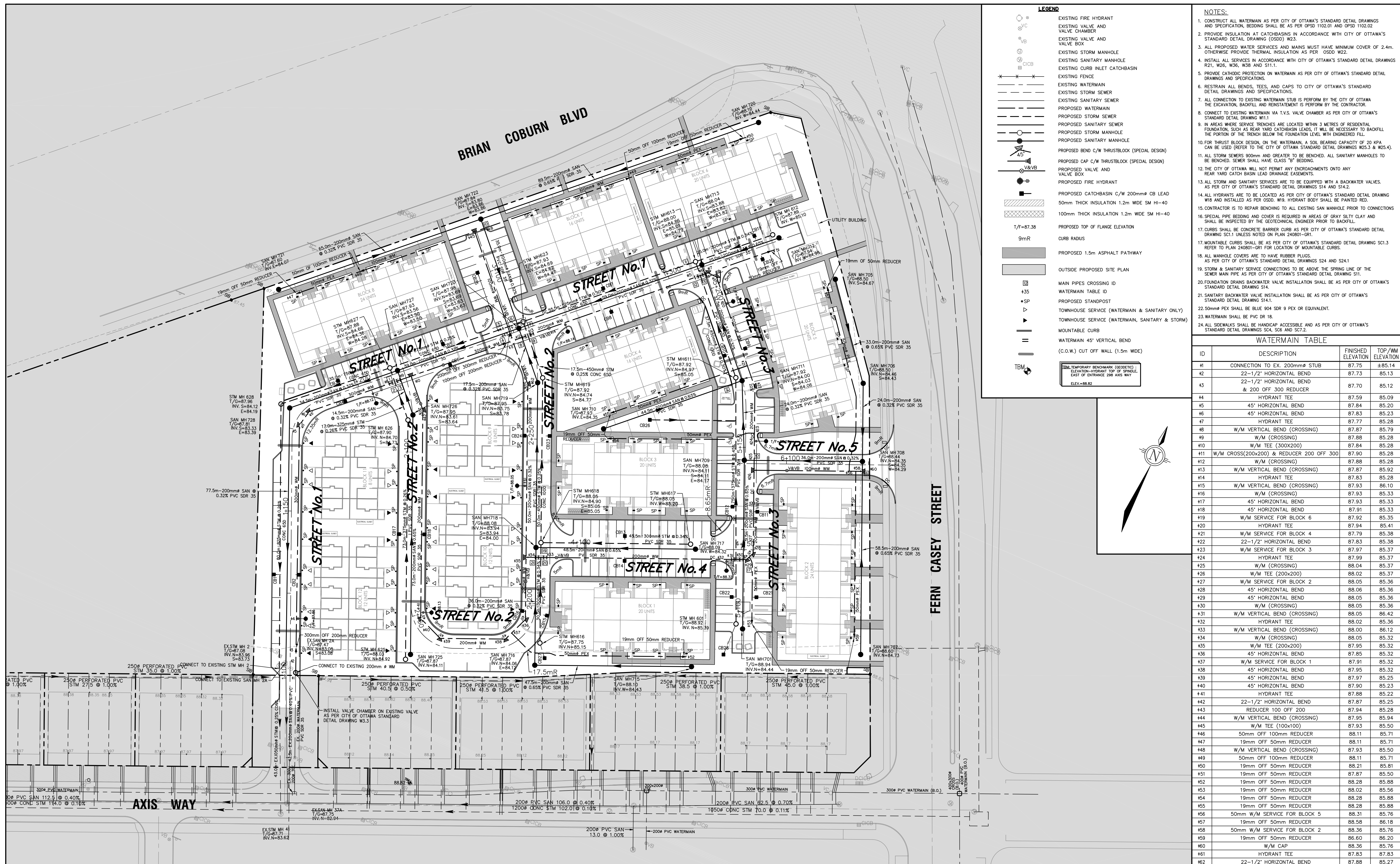
PROJECT No.

240801

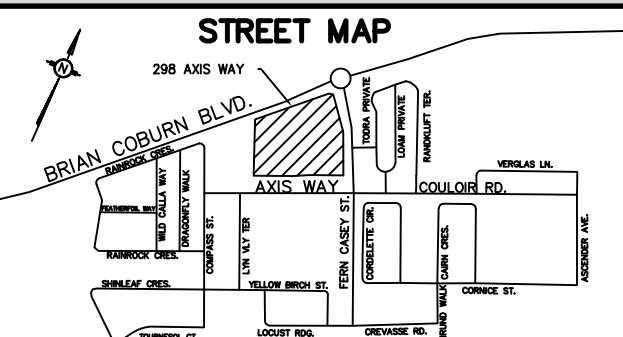
PLAN **EROSION AND SEDIMENT CONTROL PLAN**

DRAWING No.

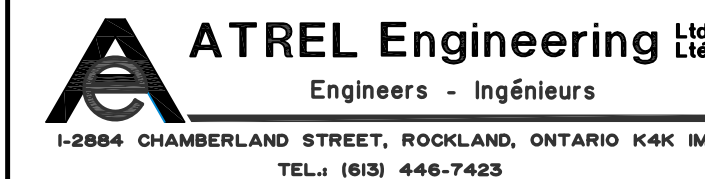
240801-ESCI



NOTE:
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No.	REVISION	△ APPLIES WHEN DRAWING MODIFIED	DATE	BY	SCALE	DESIGN
△	FIRST SUBMISSION		DEC. 06/24	AGS	5m 0 15m 	AGS
△	SECOND SUBMISSION		APR. 24/25	AGS		CHECKED
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						DRAWN
						JSC
						CHECKED
						AGS
						APPROVED



CITY OF OTTAWA
298 AXIS WAY
PLAN
GENERAL RI

MINTO
COMMUNITIES
INC.

PROJECT No.	240801
DRAWING No.	240801-



LEGEND

89
89.01
VB
CICB

86.54
87.46
87.45
VPI
87.19
2.0%

86.54(s)
1/0=86.10
INVERT 86.70

FF=88.42
TFW=88.02
USF=85.60

7R

HP

DC

IB
SIB

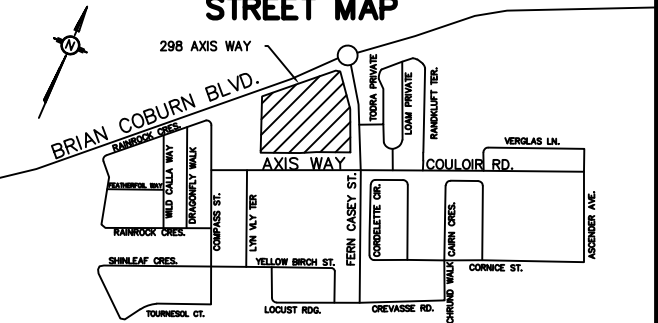
88.48
>C

CONTOURS AT 0.25m INTERVAL
EXISTING SPOT ELEVATION
EXISTING VALVE BOX
EXISTING CURB INLET CATCHBASIN
EXISTING SIGN
PROPOSED ELEVATION
EXISTING GRADE
PROPOSED ELEVATION
PROPOSED ELEVATION
PROPOSED VPI ELEVATION
% SLOPE
PROPOSED DIRECTION OF FLOW
PROPOSED DIRECTION OF FLOW
PROPOSED SWALE ELEVATION
PROPOSED TOP OF GRATE ELEVATION
PROPOSED INVERT ELEVATION
PROPOSED FINISH FLOOR ELEVATION
TOP OF FOUNDATION WALL
PROPOSED UNDERSIDE OF FOOTING
AT FRONT OF HOUSE
NUMBER OF RISERS
PROPOSED CATCHBASIN
MAJOR DRAINAGE SYSTEM
TERRACING 3:1 (MAXIMUM SLOPE)
HYDRO POLES
OUTSIDE PROPOSED DEVELOPMENT
DEPRESSED CURB
IRON BAR
SQUARE IRON BAR
TACTILE WALKING SURFACE INDICATOR
AS PER CITY OF OTTAWA'S STANDARD
DETAIL DRAWINGS SC 7 AND SC 7.3
HIGH POINT (DSEL)

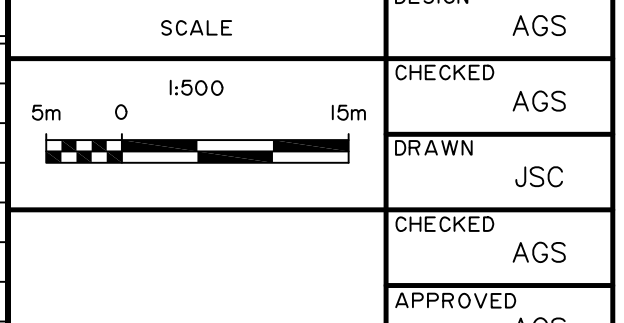
- GENERAL NOTES:**
- BUILDERS SHALL INSULATE TO COMPENSATE IF COVER IS LESS THAN 1.5m. (REFER TO SOILS REPORT)
 - A GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO IS TO INSPECT ALL SUBGRADE SURFACES FOR FOOTINGS AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION
 - FOR SITE BENCHMARK LOCATION AND ELEVATION REFER TO THE GENERAL PLAN OF SERVICES (240801-S1)

- TOPOGRAPHIC NOTES:**
- EXISTING ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GEODETIC DATUM CGD-1928
 - BEARINGS HEREON ARE GRID BEARINGS DERIVED FROM THE CAN-NET NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MTM ZONE 9,763' WEST LONGITUDE, NAD-83 (ORIGINAL)
 - IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND ALSO THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

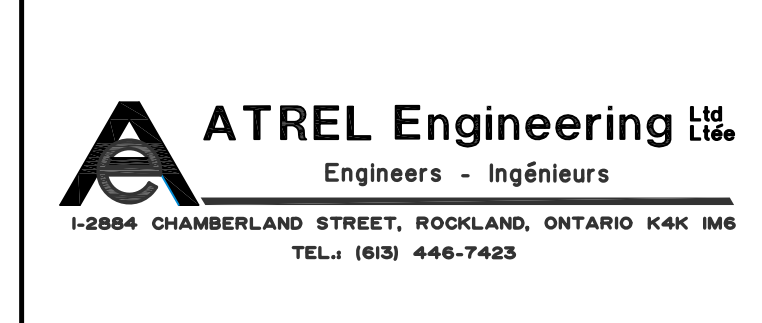
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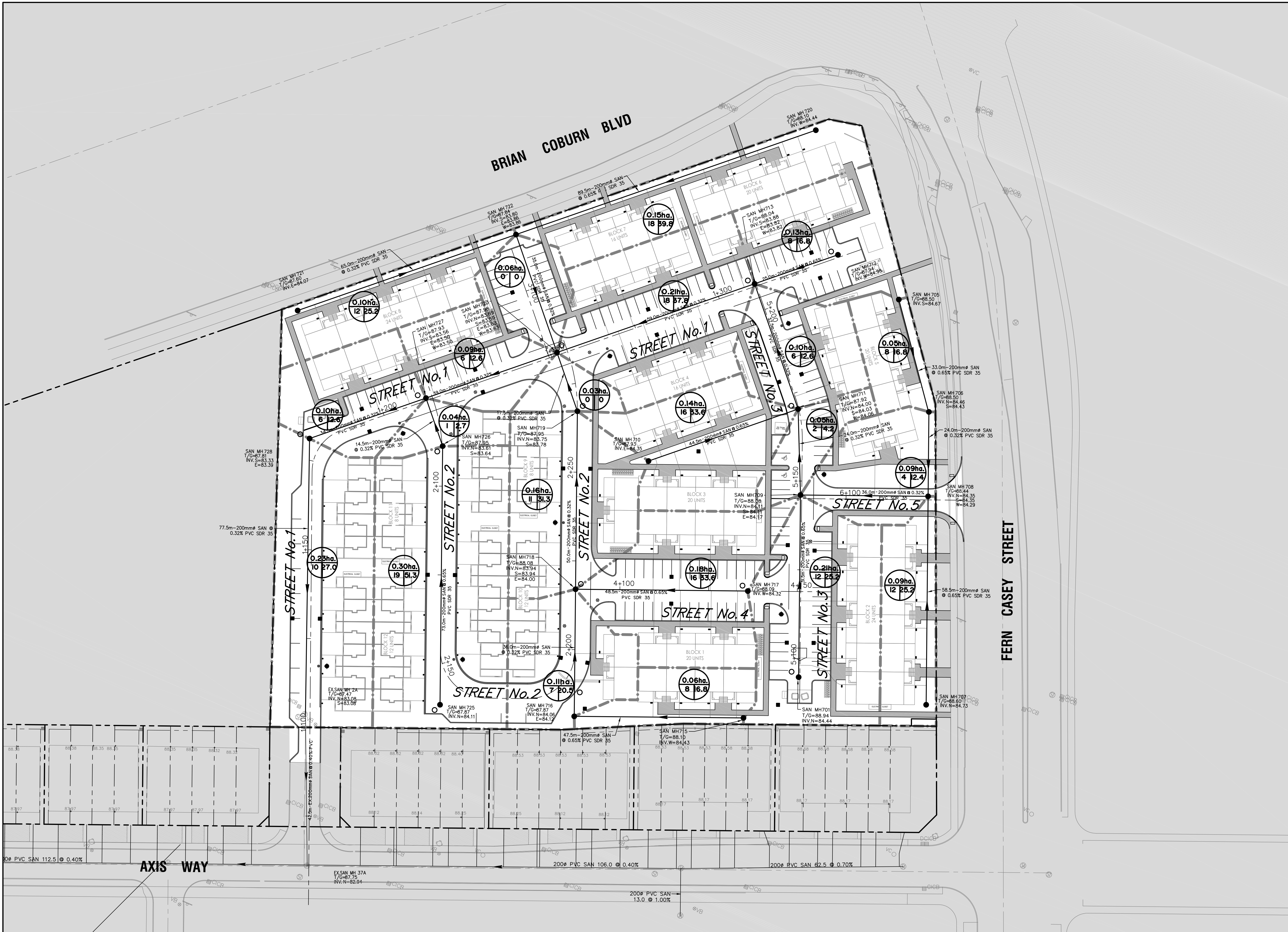
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DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS



CITY OF OTTAWA 298 AXIS WAY	MINTO COMMUNITIES INC.	PROJECT No. 240801
GRADING PLAN		DRAWING No. 240801-GR1



LEGEND

SANITARY DRAINAGE SUB AREA
POPULATION EQUIVALENT
NUMBER OF UNITS IN SUB AREA

DRAINAGE AREA BOUNDARY

PROPOSED SANITARY SEWER

EXISTING SANITARY SEWER

OUTSIDE PROPOSED DEVELOPMENT

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STREET MAP

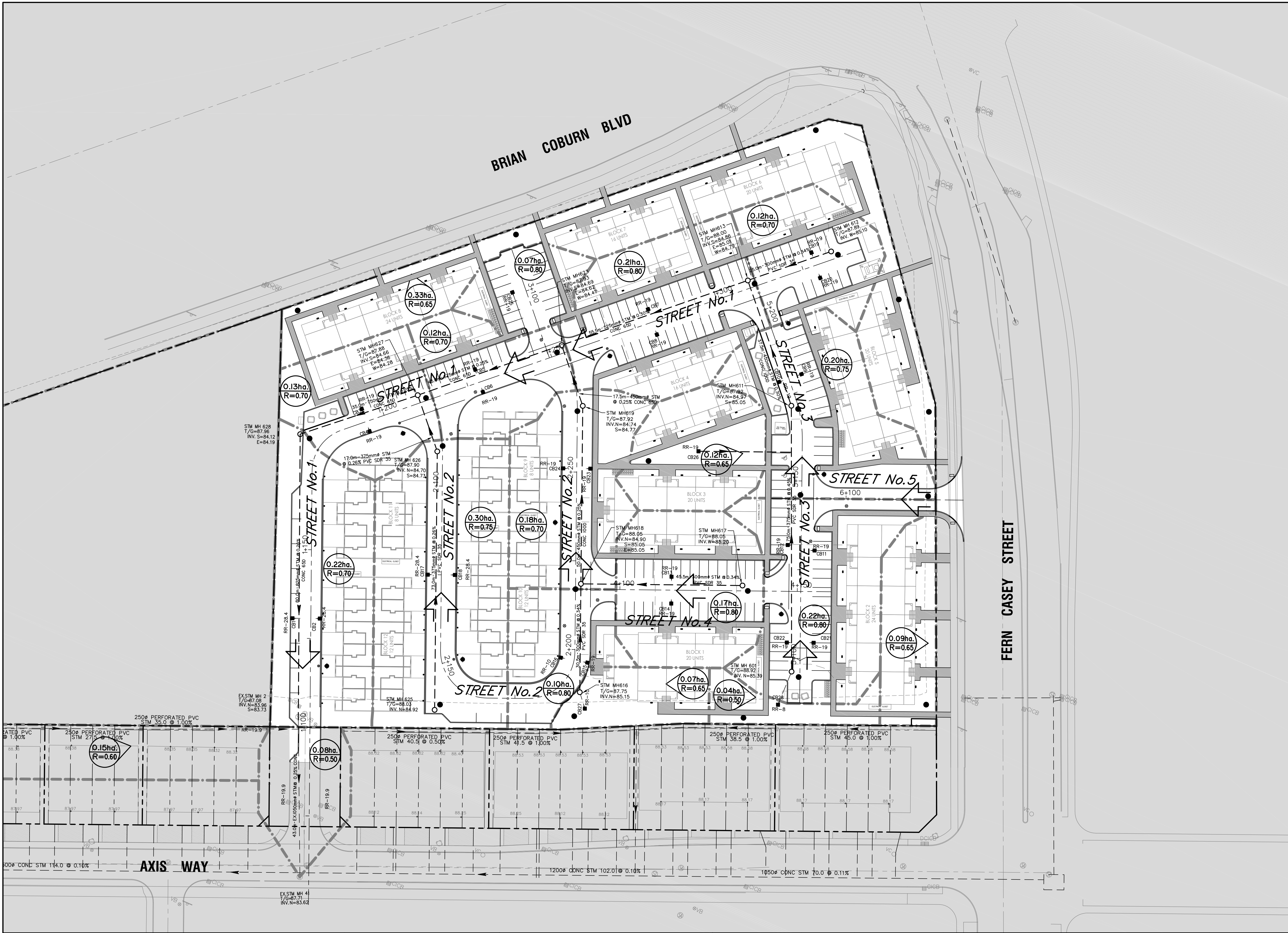
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SCALE

5m 0 1:500 15m

DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS

CITY OF OTTAWA	MINTO COMMUNITIES INC.	PROJECT No.
298 AXIS WAY		240801
PLAN		DRAWING No.
SANITARY DRAINAGE AREA PLAN		240801-SANI



LEGEND

0.70ha
R=0.20

FUTURE STORM DRAINAGE AREA

RUNOFF COEFFICIENT

PROPOSED STORM SEWER

DRAINAGE AREA BOUNDARY

MAJOR DRAINAGE SYSTEM

EXISTING STORM SEWER

OUTSIDE PROPOSED DEVELOPMENT

RR-19.9

PROPOSED INLET CONTROL DEVICE
WITH A RELEASE RATE OF 19.9 L/S

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SCALE

5m 0 1:500 15m

DESIGN	AGS
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APPROVED	AGS

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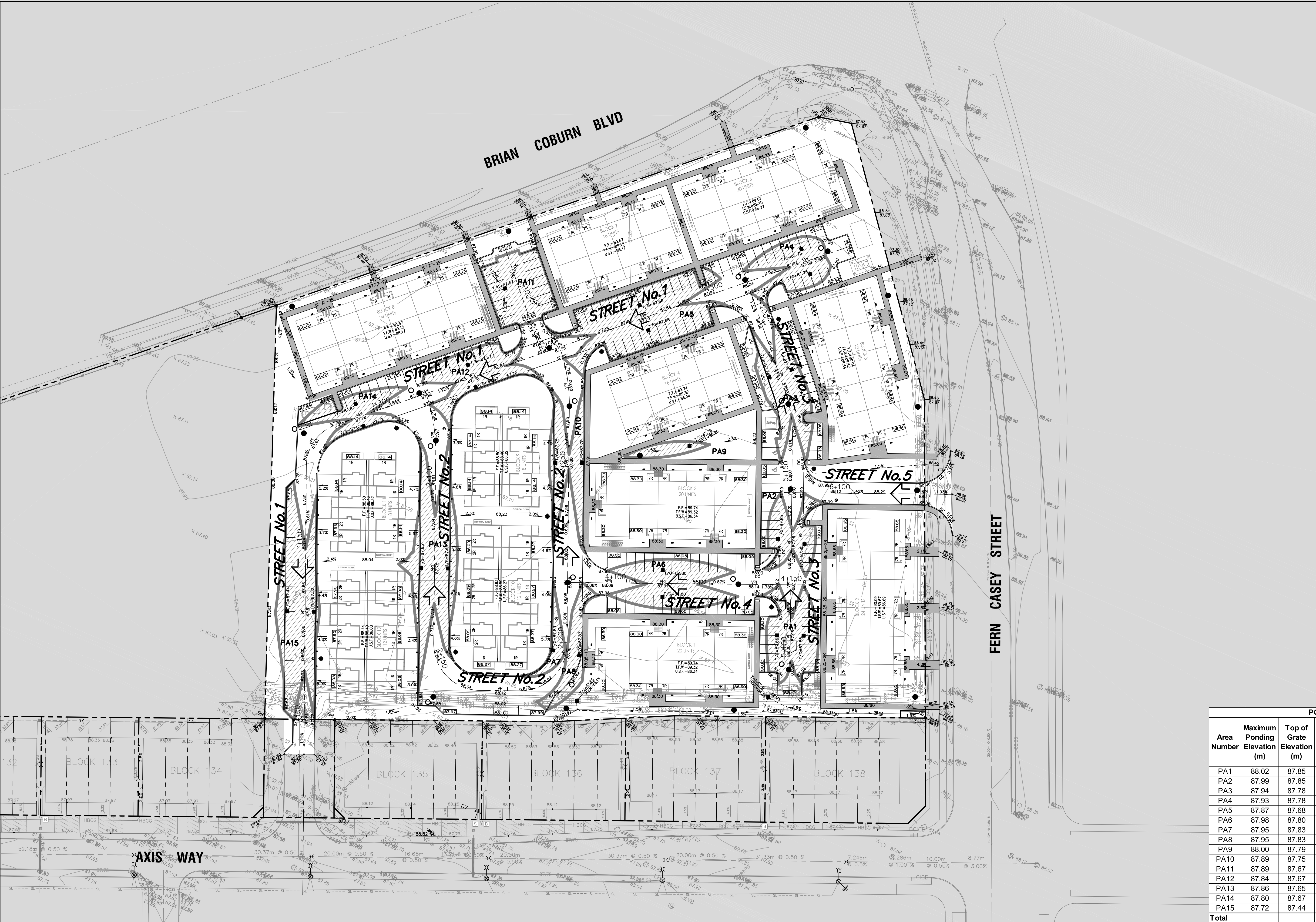
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No.
240801

DRAWING No.
240801-STMI

PLAN
STORM DRAINAGE AREA PLAN



LEGEND

PONDING AREA

PONDING AREA No.

MAJOR DRAINAGE

PA10

PONDING AREA TABLE							
Area Number	Maximum Ponding Elevation (m)	Top of Grate Elevation (m)	Maximum Ponding Depth (m)	Maximum Ponding Volume (m³)	CB VOLUME (M3)	Maximum Ponding Area (m²)	I.C.D Flow Release Rate (L/s)
PA1	88.02	87.85	0.17	19.31	1.00	291.28	38.0
PA2	87.99	87.85	0.14	10.33	1.00	199.79	38.0
PA3	87.94	87.78	0.16	15.02	1.00	294.29	56.8
PA4	87.93	87.78	0.15	12.82	1.00	244.53	38.0
PA5	87.87	87.68	0.19	44.10	1.00	646.24	38.0
PA6	87.98	87.80	0.18	23.60	1.00	375.60	38.0
PA7	87.95	87.83	0.12	3.22	0.50	68.96	10.0
PA8	87.95	87.83	0.12	10.05	0.50	144.10	19.0
PA9	88.00	87.79	0.21	4.40	0.50	63.67	19.0
PA10	87.89	87.75	0.14	13.21	1.00	420.36	38.0
PA11	87.89	87.67	0.22	27.54	0.50	324.78	19.0
PA12	87.84	87.67	0.17	17.34	1.00	288.11	38.0
PA13	87.86	87.65	0.21	36.19	1.00	633.38	38.0
PA14	87.80	87.67	0.13	7.81	1.00	194.13	38.0
PA15	87.72	87.44	0.28	51.07	1.00	546.26	56.8
Total				296.01	6.00		

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SCALE

5m 0 1:500 15m

DESIGN

AGS

CHECKED

AGS

DRAWN

JSC

CHECKED

AGS

APPROVED

AGS

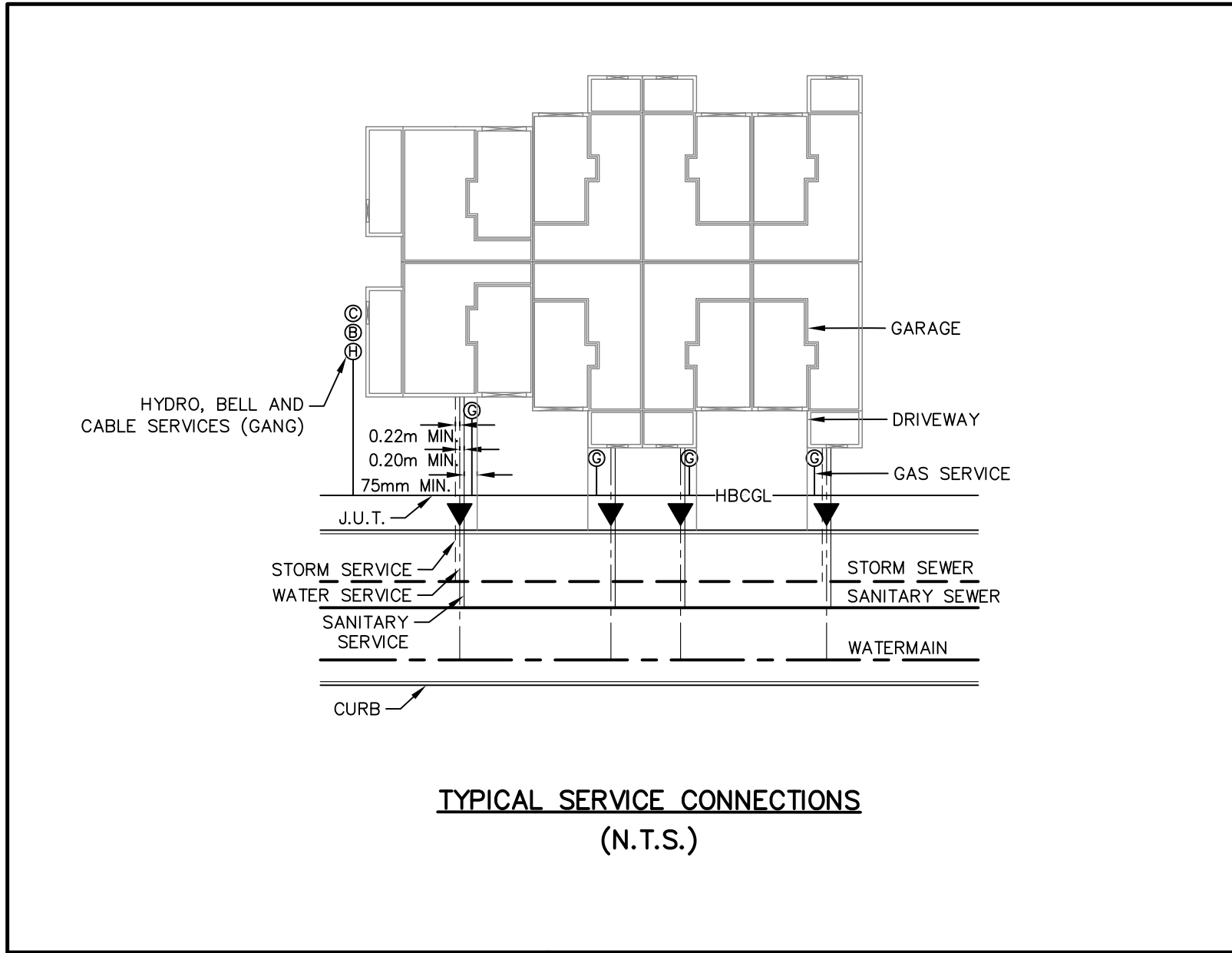
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

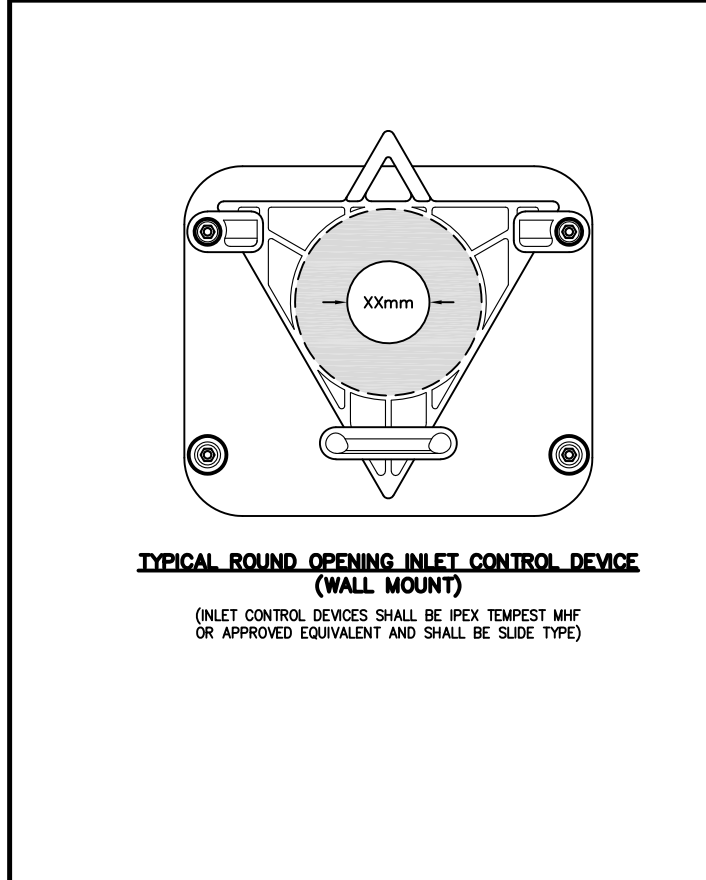
PROJECT No.
240801

PLAN
PONDING AREA PLAN

DRAWING No.
240801-PAI



TYPICAL SERVICE CONNECTIONS
(N.T.S.)



TYPICAL ROUND OPENING INLET CONTROL DEVICE
(WALL MOUNT)

(INLET CONTROL DEVICES SHALL BE PERMITTED TO BE USED OR APPROVED EQUIVALENT AND SHALL BE SLIDE TYPE)

PAVEMENT STRUCTURE TABLE	
THICKNESS (mm)	MATERIAL DESCRIPTION
40	WEAR COURSE - HL-3
50	BINDER COURSE - HL-8
150	BASE - OPSS GRANULAR 'A' CRUSHED STONE
450	SUBBASE - OPSS GRANULAR 'B' TYPE II

INLET CONTROL DEVICE AND CATCHBASINS TABLE				
CB NO.	T/G ELEV. (m)	PONDING ELEV. (m)	INVERT ELEV. (m)	ICD ID.
1	87.44	87.72	85.97	RR- 28.4
2	87.51	87.72	85.97	RR- 28.4
3	87.67	87.80	86.05	RR- 19
4	87.67	87.80	86.05	RR- 19
5	87.67	87.84	86.09	RR- 19
6	87.67	87.84	86.09	RR- 19
7	87.68	87.87	86.12	RR- 19
8	87.68	87.87	86.12	RR- 19
9	87.78	87.94	86.19	RR- 19
10	87.78	87.94	86.19	RR- 10
11	87.85	87.99	86.24	RR- 19
12	87.85	87.99	86.24	RR- 19
13	87.80	87.98	86.23	RR- 19
14	87.80	87.98	86.23	RR- 19
15	87.83	87.95	86.2	RR- 19
16	87.83	87.95	86.2	RR- 19
17	87.65	87.86	86.11	RR- 28.4
18	87.65	87.86	86.11	RR- 28.4
19	87.78	87.93	86.18	RR- 19
20	87.78	87.93	86.18	RR- 19
21	87.85	88.02	86.27	RR- 19
22	87.85	88.02	86.27	RR- 19
23	87.75	87.89	86.14	RR- 19
24	87.75	87.89	86.14	RR- 19
25	87.67	87.89	86.14	RR- 19
26	87.79	88.00	86.25	RR- 19
27	87.65	88.04	86.29	RR- 10
28	87.86	88.09	86.34	RR- 8

SANITARY MAINTENANCE HOLE TABLE			
MH NUMBER	DIMENSIONS	DRAWING	MH COVER
701 TO 708, 710 TO 712, 714 TO 717, 719 TO 724 & 726 TO 729.	1200mmø	240801-S1	OSDD S24.1 (CLOSED)
709, 713, 718 & 725.	1200mmø	240801-S1	OSDD S28.1 (OPEN)

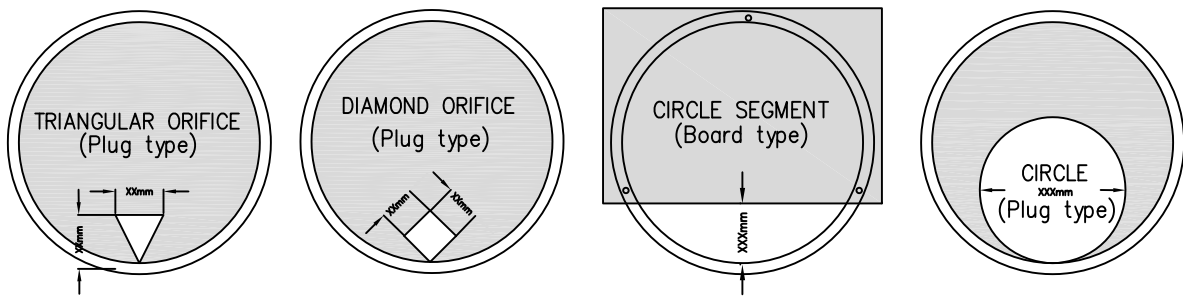
*OSDD = OTTAWA STANDARD DETAIL DRAWINGS

STORM MAINTENANCE HOLE TABLE			
MH NUMBER	DIMENSIONS	DRAWING	MH COVER
601 TO 612, 614 TO 617, 619 TO 624 & 626 TO 629.	1200mmø	240801-S1	OSDD S24.1 (CLOSED)
613, 618 & 625.	1200mmø	240801-S1	OSDD S28.1 (OPEN)

*OSDD = OTTAWA STANDARD DETAIL DRAWINGS

STORM, SANITARY AND WATERMAIN CONFLICT TABLE								
ID	DESCRIPTION	SANITARY INVERT	SANITARY OVERT	STORM INVERT	STORM OVERT	W/M INVERT	W/M OVERT	BARREL TO BARREL SEPARATION
[1]	1.5m SOUTH of STM MH 627	83.50	83.70	84.65	85.02	N/A	N/A	0.95m
[2]	4.5m SOUTH of STM MH 627	N/A	N/A	84.67	85.05	85.59	85.79	0.54m
[3]	3.0m SOUTH of SAN MH 727	83.57	83.77	N/A	N/A	85.08	85.28	1.31m
[4]	3.0m WEST of SAN MH 723	83.62	83.82	N/A	N/A	85.08	85.28	1.26m
[5]	5.0m WEST of STM MH 623	N/A	N/A	84.46	85.13	85.74	85.94	0.61m
[6]	1.5m NORTH of SAN MH 723	83.80	84.00	84.46	85.13	N/A	N/A	0.46m
[7]	1.5m SOUTH of STM MH 623	83.63	83.83	84.68	85.13	N/A	N/A	0.85m
[8]	3.0m SOUTH of SAN MH 723	83.70	83.90	N/A	N/A	85.08	85.28	1.18m
[9]	4.5m SOUTH of STM MH 623	N/A	N/A	84.70	85.15	85.72	85.92	0.57m
[10]	3.0m SOUTH of SAN MH 722	83.79	83.99	N/A	N/A	85.30	85.50	1.31m
[11]	1.5m SOUTH of STM MH 613	83.82	84.02	84.85	85.30	N/A	N/A	0.83m
[12]	4.5m SOUTH of STM MH 613	N/A	N/A	84.87	85.32	85.90	86.10	0.58m
[13]	3.0m SOUTH of SAN MH 713	83.89	84.09	N/A	N/A	85.13	85.33	1.04m
[14]	1.5m NORTH of STM MH 611	84.06	84.26	84.97	85.42	N/A	N/A	0.71m
[15]	3.0m EAST of SAN MH 709	84.18	84.38	N/A	N/A	85.17	85.37	0.79m
[16]	3.0m SOUTH of SAN MH 708	84.37	84.57	N/A	N/A	85.56	85.76	0.99m
[17]	21.0m NORTH of SAN MH 701	84.30	84.50	N/A	N/A	86.22	86.42	1.72m
[18]	19.5m NORTH of STM MH 601	N/A	N/A	85.30	85.67	86.22	86.42	0.55m
[19]	1.5m EAST of SAN MH 718	84.00	84.20	85.03	85.33	N/A	N/A	0.83m
[20]	4.5m SOUTH of STM MH 618	N/A	N/A	85.07	85.37	85.92	86.12	0.55m
[21]	3.0m SOUTH of SAN MH 718	83.95	84.15	N/A	N/A	85.92	86.12	1.77m

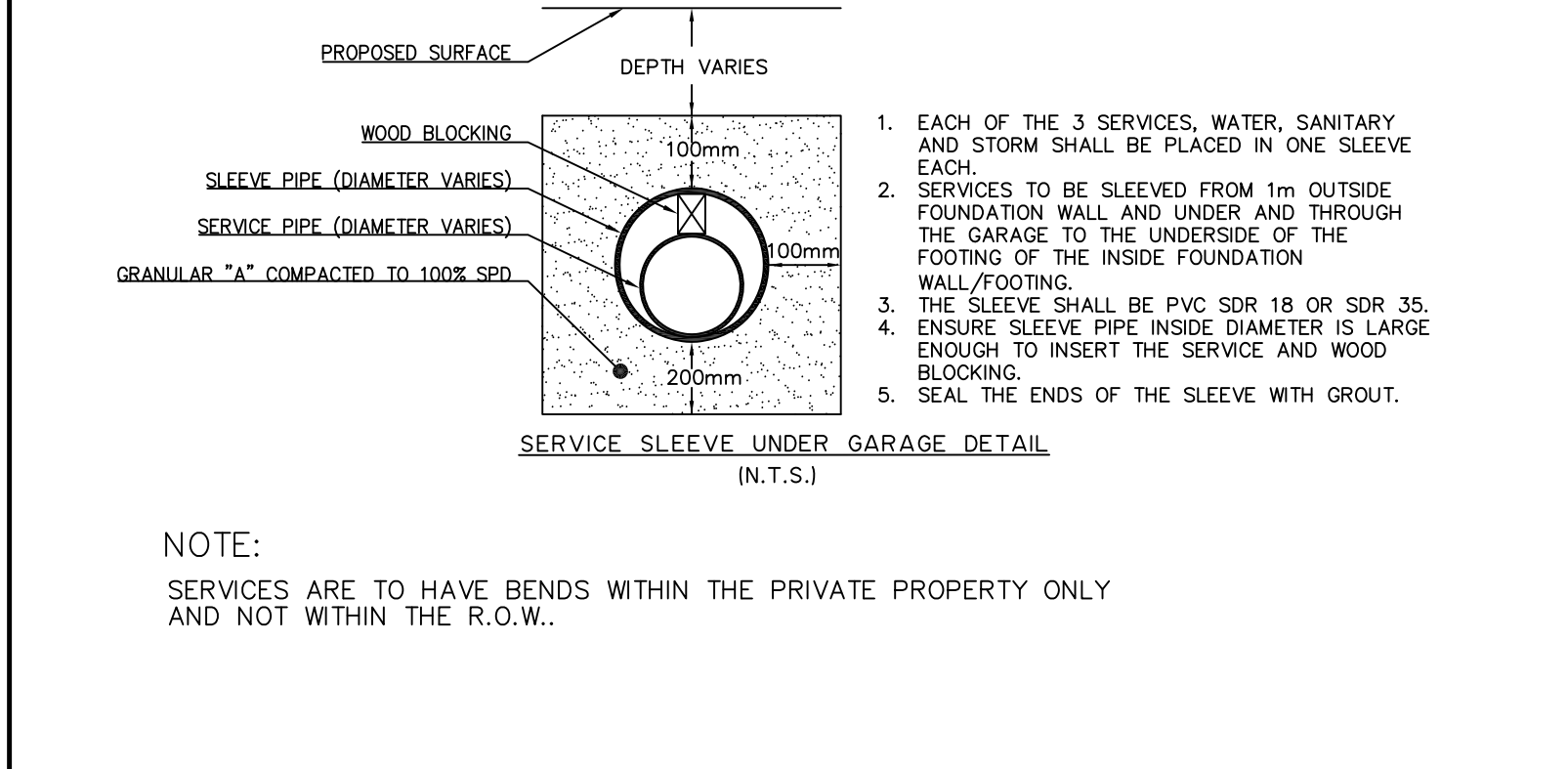
TEMPORARY CONSTRUCTION ICD OPENING



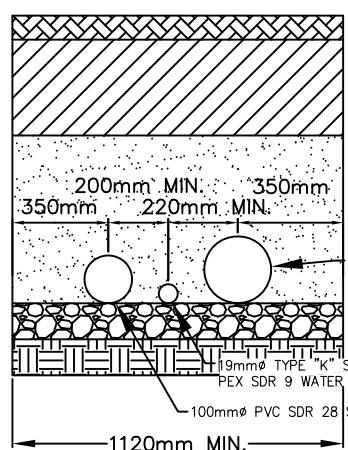
TEMPORARY CONSTRUCTION ICD TABLE				
MH NUMBER	INLET DIRECTION	PIPE SIZE	ICD TYPE	OPENING DIMENSION
SAN MH 2a	SOUTH	200mm	TRIANGULAR ORIFICE PLUG TYPE	70mm x 70mm
STM MH 2	SOUTH	1050mm	CIRCLE SEGMENT BOARD TYPE	231mm

INLET CONTROL DEVICE DESIGN

RR	Flow, Q (L/s)	Orifice Type	Head (m)	Orifice Size (m)	Orifice Area (m²)
8	8.00	Vortex	1.65	Hydrovex - 75SVHV-1 wall mount type	
10	10.00	Vortex	1.65	Hydrovex - 100SVHV-2 wall mount type	
19	19.00	Round	1.65	Diameter of 0.083	0.0056
28.4	28.40	Round	1.65	Diameter of 0.102	0.0082

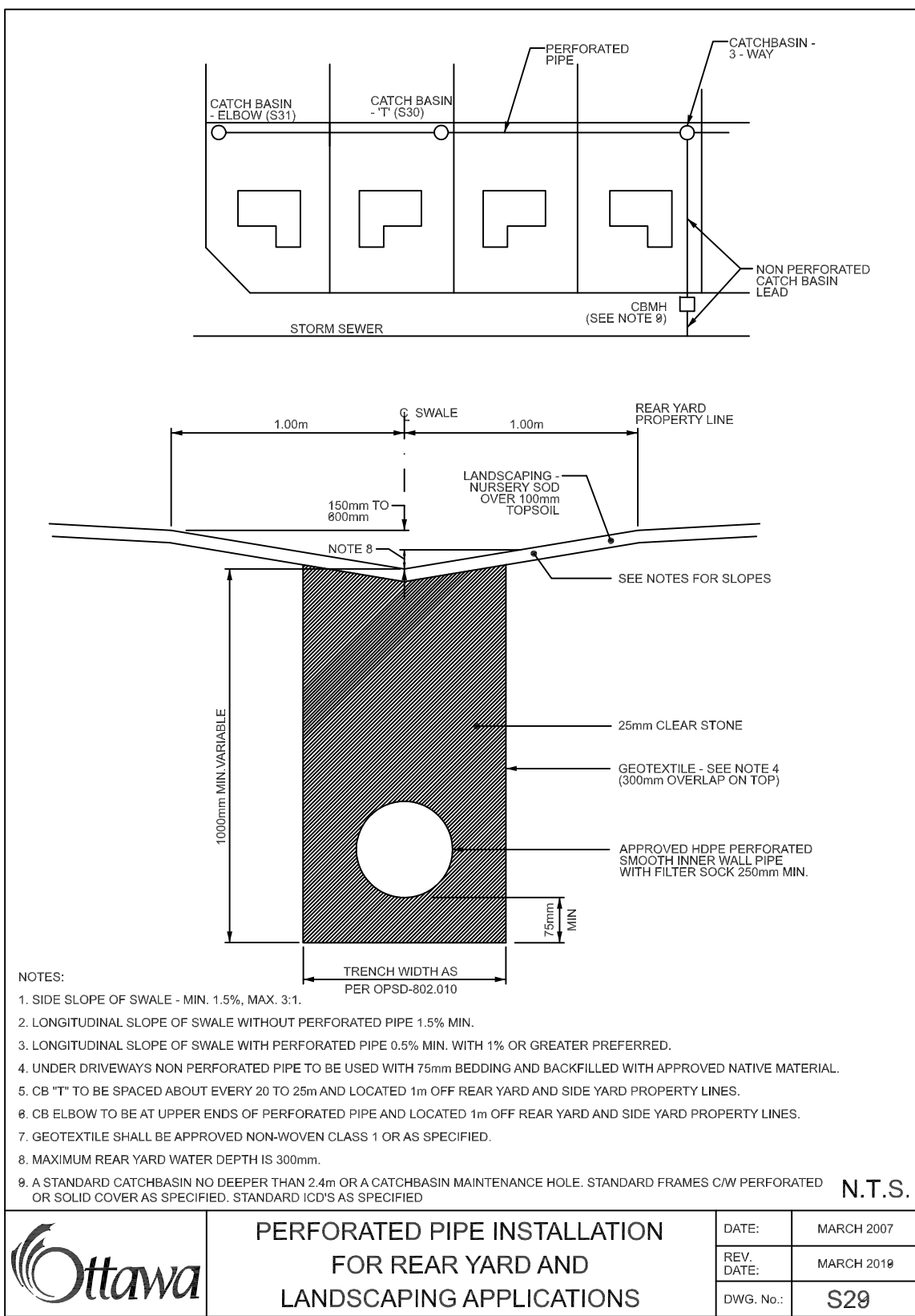


NOTE:
SERVICES ARE TO HAVE BENDS WITHIN THE PRIVATE PROPERTY ONLY
AND NOT WITHIN THE R.O.W..

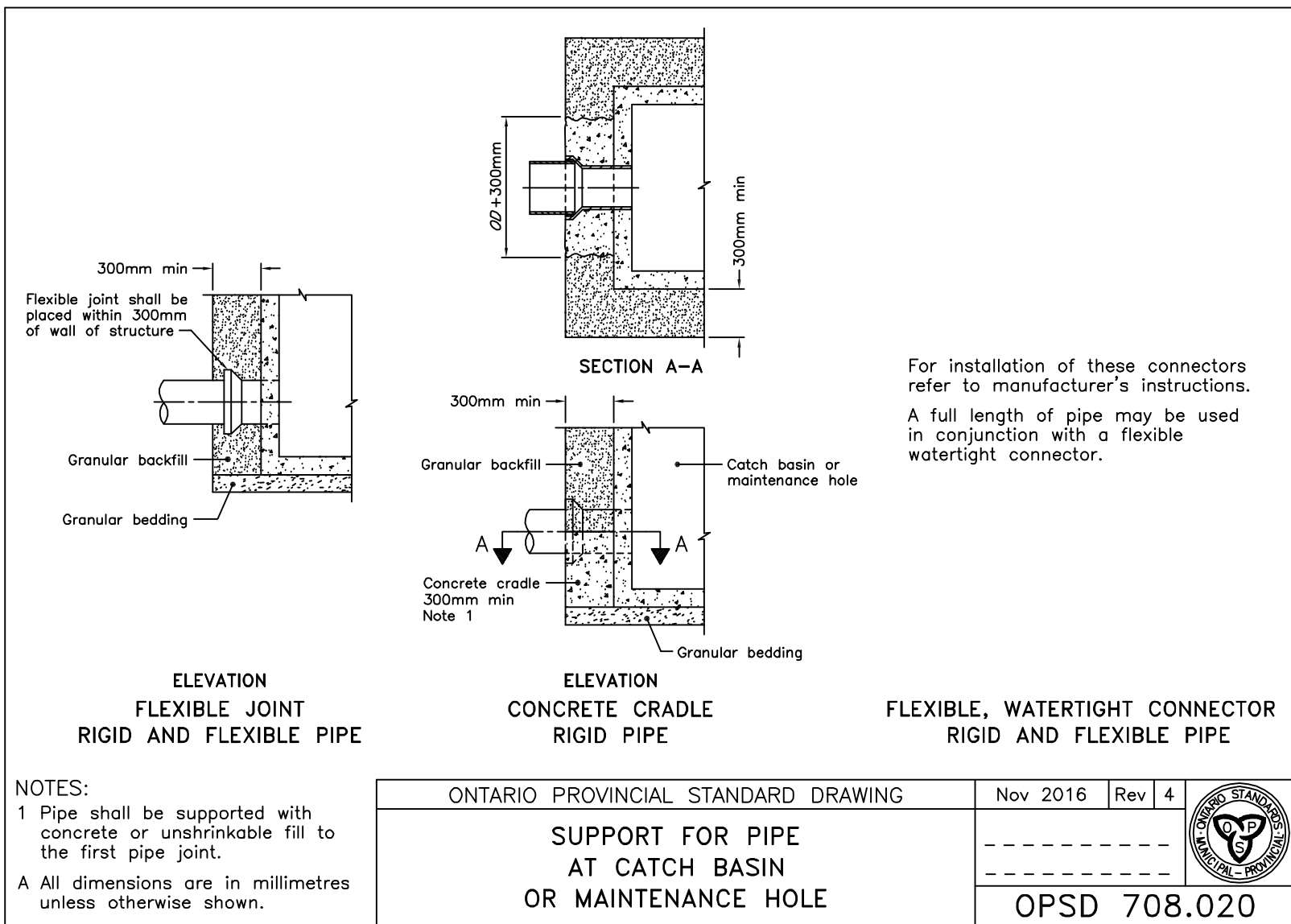


- NOTES:
- NO HORIZONTAL BENDS IN R.O.W. UNLESS OTHERWISE APPROVED BY THE CITY.
 - MAXIMUM OF TWO (2) 22.5° HORIZONTAL BENDS FOR SANITARY AND STORM SERVICES.
 - 15 MINIMUM SANITARY AND STORM SERVICE GRAVITY WITH 2% PROVIDED.
 - SEE CITY OF OTTAWA STANDARD DETAIL DRAWING 37 FOR PIPE FOUNDATION, EMBEDEDMENT AND BACKFILL REQUIREMENTS.
 - MULTIPLE TAPS WITH SADDLES IN PVC WATERMAIN SHALL BE STAGGERED AND MINIMUM 600mm APART.

COMMON TRENCH FOR TOWNHOMES
(N.T.S.)

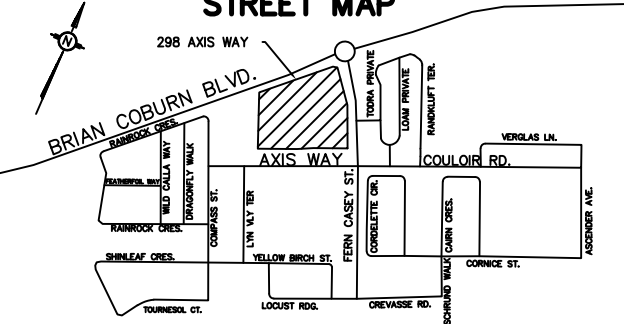


PERFORATED PIPE INSTALLATION FOR REAR YARD AND LANDSCAPING APPLICATIONS		DATE: MARCH 2007
		REV. DATE: MARCH 2018
		DWG. No.: S29



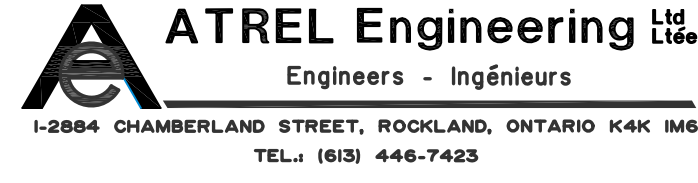
NOTES:		ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2016	Rev 4	
1 Pipe shall be supported with concrete or unshrinking fill to the first pipe joint.		SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE		-----		
A All dimensions are in millimetres unless otherwise shown.				-----		
				OPSD 708.020		

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS,
SEWERS AND OTHER UNDERGROUND AND OVERGROUND
UTILITIES AND STRUCTURES IS NOT NECESSARILY
SHOWN ON THE CONTRACT DRAWINGS, AND WHERE
SHOWN, THE ACCURACY OF THE POSITION OF SUCH
UTILITIES AND STRUCTURES IS NOT GUARANTEED.
BEFORE STARTING WORK, DETERMINE THE EXACT
LOCATION OF ALL SUCH UTILITIES AND STRUCTURES
AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.



No.	REVISION	APPLIES WHEN DRAWING MODIFIED	DATE	BY
1	FIRST SUBMISSION		DEC. 06/24	AGS
2	SECOND SUBMISSION		APR. 24/25	AGS

SCALE	DESIGN
N.T.S.	AGS
	CHECKED
	AGS
	DRAWN
	JSC
	CHECKED
	AGS
	APPROVED
	AGS



CITY OF OTTAWA 298 AXIS WAY	
PLAN TYPICAL DETAILS AND TABLES	

MINTO COMMUNITIES INC.	PROJECT No. 240801
	DRAWING No. 240801-TDI