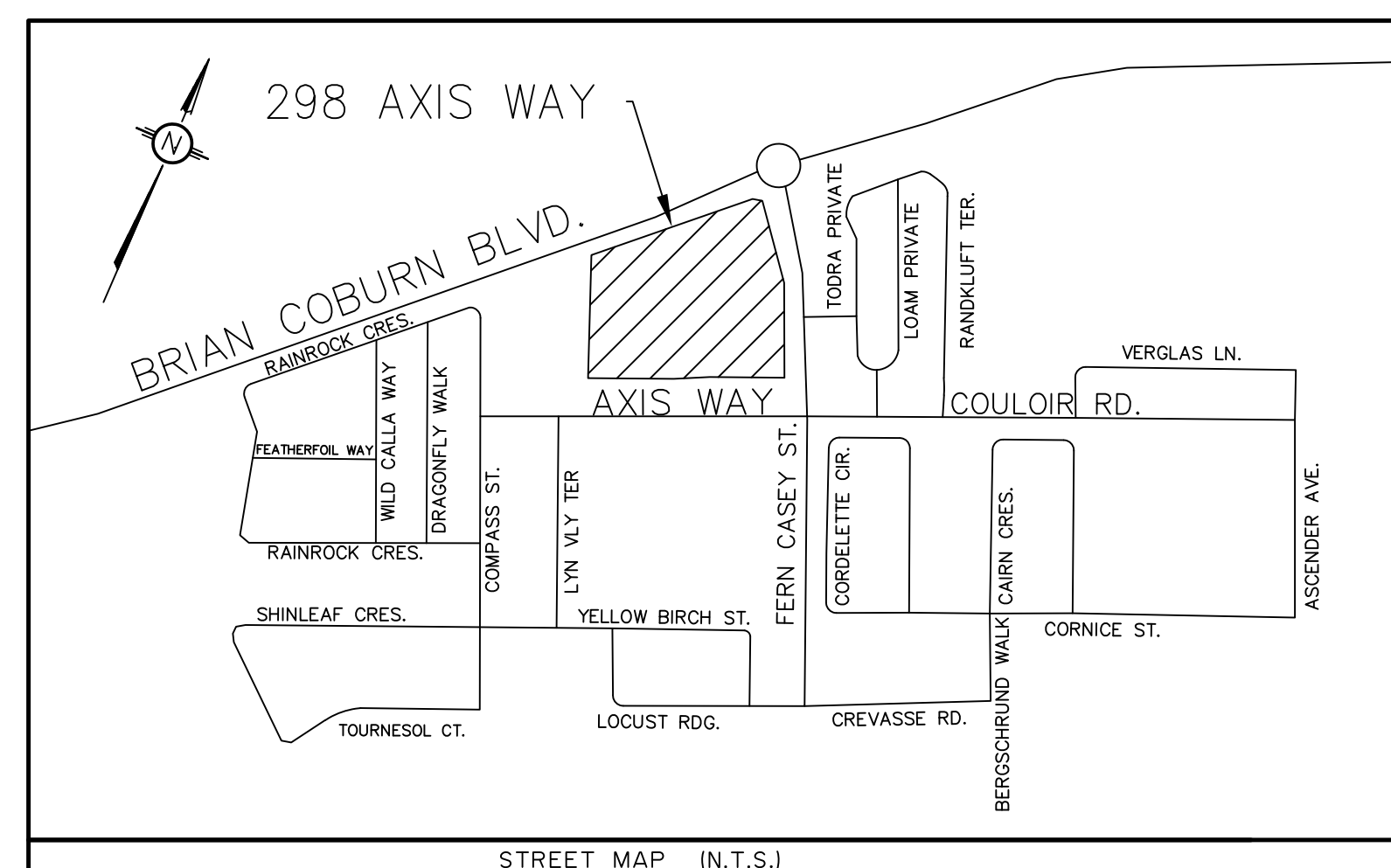




SITE SERVICING PLAN 298 AXIS WAY

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



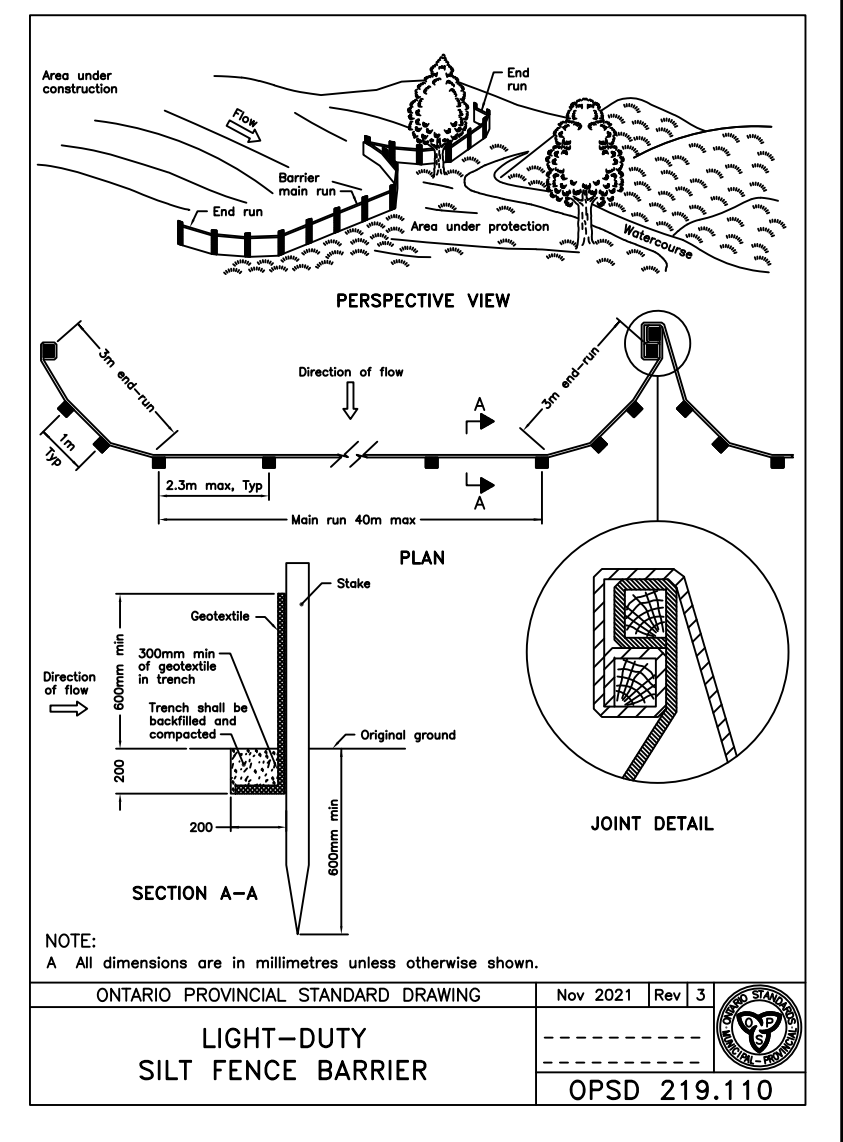
LEGEND

--- SILTATION CURTAIN

80 --- EXISTING ELEVATION CONTOUR

85.67 --- 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 SUMP 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 HEAVING 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.



NOTE:
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STREET MAP

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

SCALE

5m 0 15m

DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS

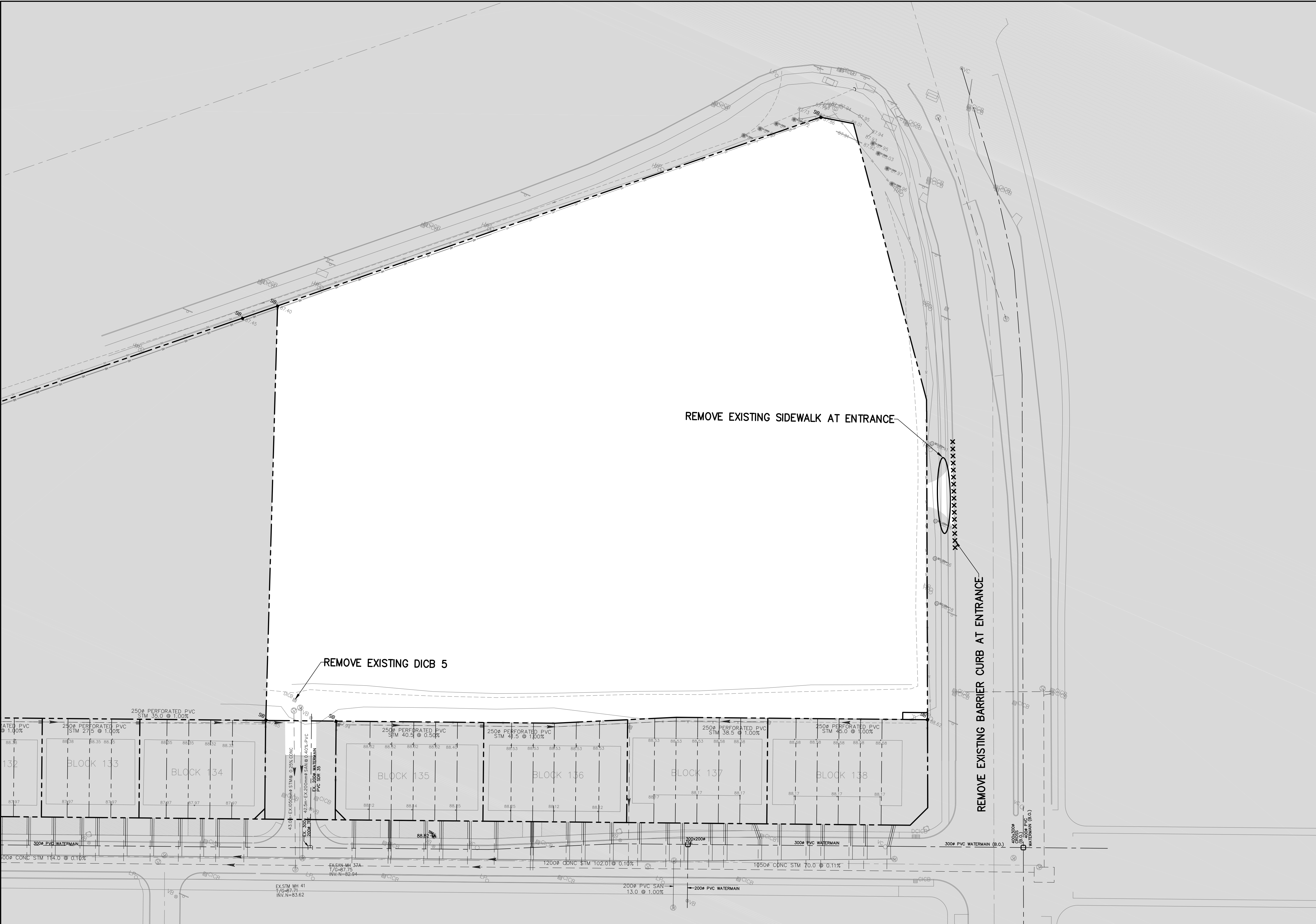
CITY OF OTTAWA
298 AXIS WAY

PLAN **EROSION AND SEDIMENT CONTROL PLAN**

MINTO COMMUNITIES INC.

PROJECT No.
240801

DRAWING No.
240801-ESCI



LEGEND

EXISTING WATERMAIN

EXISTING STORM SEWER

EXISTING SANITARY SEWER

OBJECT TO BE REMOVED

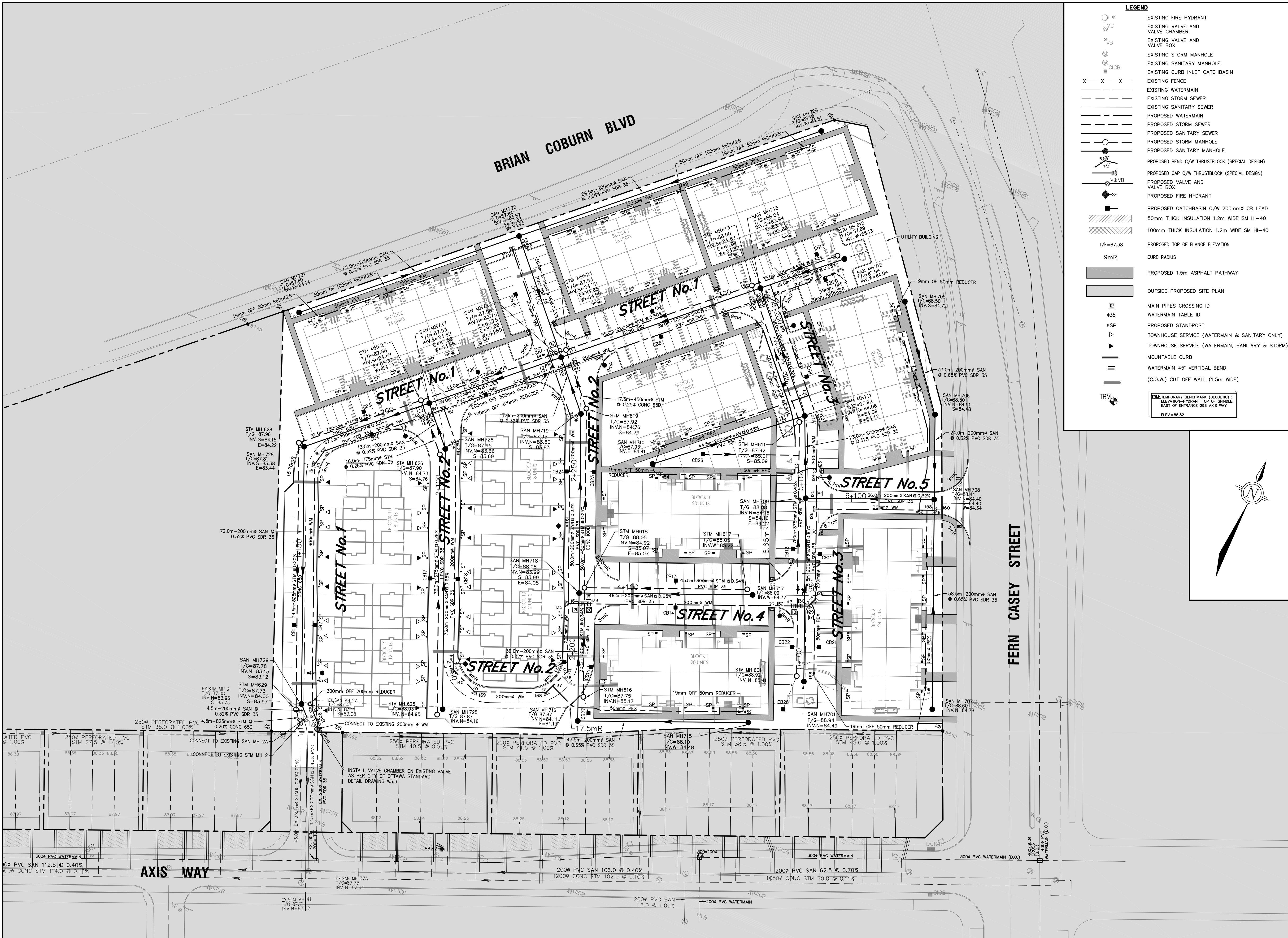
OBJECT TO BE REMOVED

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SCALE	DESIGN
	AGS
	CHECKED AGS
	DRAWN JSC
	CHECKED AGS
	APPROVED AGS

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



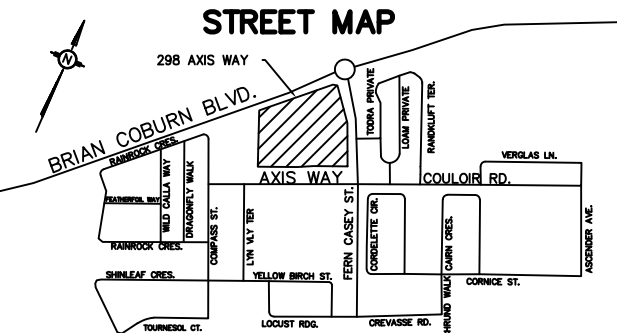
- LEGEND**
- EXISTING FIRE HYDRANT
 - EXISTING VALVE AND VALVE CHAMBER
 - EXISTING VALVE AND VALVE BOX
 - EXISTING STORM MANHOLE
 - EXISTING SANITARY MANHOLE
 - EXISTING CURB INLET CATCHBASIN
 - EXISTING FENCE
 - EXISTING WATERMAIN
 - EXISTING STORM SEWER
 - EXISTING SANITARY SEWER
 - PROPOSED WATERMAIN
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM MANHOLE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED BEND C/W THRUSTBLOCK (SPECIAL DESIGN)
 - PROPOSED CAP C/W THRUSTBLOCK (SPECIAL DESIGN)
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED FIRE HYDRANT
 - PROPOSED CATCHBASIN C/W 200mm CB LEAD
 - 50mm THICK INSULATION 1.2m WIDE SM HI-40
 - 100mm THICK INSULATION 1.2m WIDE SM HI-40
 - PROPOSED TOP OF FLANGE ELEVATION
 - CURB RADIUS
 - PROPOSED 1.5m ASPHALT PATHWAY
 - OUTSIDE PROPOSED SITE PLAN
 - MAIN PIPES CROSSING ID
 - WATERMAIN TABLE ID
 - PROPOSED STANDPOST
 - TOWNHOUSE SERVICE (WATERMAIN & SANITARY ONLY)
 - TOWNHOUSE SERVICE (WATERMAIN, SANITARY & STORM)
 - MOUNTABLE CURB
 - WATERMAIN 45° VERTICAL BEND (C.O.W.) CUT OFF WALL (1.5m WIDE)
 - TEMPORARY BENCHMARK (GEODEIC) ELEVATION-HYDRANT TOP OF SPINDLE, EAST OF ENTRANCE 298 AXIS WAY ELEV.=88.82

- NOTES:**
- CONSTRUCT ALL WATERMAIN AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS AND SPECIFICATION, BEDDING SHALL BE AS PER OPSD 1102.01 AND OPSD 1102.02
 - PROVIDE INSULATION AT CATCHBASINS IN ACCORDANCE WITH CITY OF OTTAWA'S STANDARD DETAIL DRAWING (OSDD) W23.
 - ALL PROPOSED WATER SERVICES AND MAINS MUST HAVE MINIMUM COVER OF 2.4m. OTHERWISE PROVIDE THERMAL INSULATION AS PER OSDD W22.
 - INSTALL ALL SERVICES IN ACCORDANCE WITH CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS R21, W26, W36, W38 AND S11.1.
 - PROVIDE CATHODIC PROTECTION ON WATERMAIN AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS AND SPECIFICATIONS.
 - RESTRAIN ALL BENDS, TEES, AND CAPS TO CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS AND SPECIFICATIONS.
 - ALL CONNECTION TO EXISTING WATERMAIN STUB IS PERFORM BY THE CITY OF OTTAWA THE EXCAVATION, BACKFILL AND REINSTATEMENT IS PERFORM BY THE CONTRACTOR.
 - CONNECT TO EXISTING WATERMAIN VIA T.V.S. VALVE CHAMBER AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING W1.1.
 - IN AREAS WHERE SERVICE TRENCHES ARE LOCATED WITHIN 3 METRES OF RESIDENTIAL FOUNDATION, SUCH AS REAR YARD CATCHBASIN LEADS, IT WILL BE NECESSARY TO BACKFILL THE PORTION OF THE TRENCH BELOW THE FOUNDATION LEVEL WITH ENGINEERED FILL.
 - FOR THRUST BLOCK DESIGN, ON THE WATERMAIN, A SOIL BEARING CAPACITY OF 20 KPA CAN BE USED (REFER TO THE CITY OF OTTAWA STANDARD DETAIL DRAWINGS W23.3 & W25.4).
 - ALL STORM SEWERS 300mm AND GREATER TO BE BENDED. ALL SANITARY MANHOLES TO BE BENDED. SEWER SHALL HAVE CLASS "B" BEDDING.
 - THE CITY OF OTTAWA WILL NOT PERMIT ANY ENCROACHMENTS ONTO ANY REAR YARD CATCH BASIN LEAD DRAINAGE EASEMENTS.
 - ALL STORM AND SANITARY SERVICES ARE TO BE EQUIPPED WITH A BACKWATER VALVES. AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS S14 AND S14.2.
 - ALL HYDRANTS ARE TO BE LOCATED AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING W18 AND INSTALLED AS PER OSDD. W19. HYDRANT BODY SHALL BE PAINTED RED.
 - CONTRACTOR IS TO REPAIR BENCHING TO ALL EXISTING SAN MANHOLE PRIOR TO CONNECTIONS.
 - SPECIAL PIPE BEDDING AND COVER IS REQUIRED IN AREAS OF GRAY SILTY CLAY AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILL.
 - CURBS SHALL BE CONCRETE BARRIER CURB AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING SCL1, UNLESS NOTED ON PLAN 240801-GR1.
 - MOUNTABLE CURBS SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING SCL1.3 REFER TO PLAN 240801-GR1 FOR LOCATION OF MOUNTABLE CURBS.
 - ALL MANHOLE COVERS ARE TO HAVE RUBBER PLUGS. AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS S24 AND S24.1.
 - STORM & SANITARY SERVICE CONNECTIONS TO BE ABOVE THE SPRING LINE OF THE SEWER MAIN PIPE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING S11.
 - FOUNDATION DRAINS BACKWATER VALVE INSTALLATION SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING S14.1.
 - SANITARY BACKWATER VALVE INSTALLATION SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING S14.1.
 - 50mm PEX SHALL BE BLUE 904 SDR 9 PEX OR EQUIVALENT.
 - WATERMAIN SHALL BE PVC OR 18.
 - ALL SIDEWALKS SHALL BE HANDICAP ACCESSIBLE AND AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS SCL4, SCL6 AND SCL7.2.

WATERMAIN TABLE

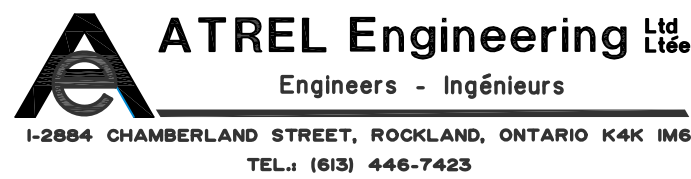
ID	DESCRIPTION	FINISHED ELEVATION	TOP/WM ELEVATION
#1	CONNECTION TO EX. 200mm STUB	87.75	±85.14
#2	22-1/2" HORIZONTAL BEND	87.73	85.13
#3	22-1/2" HORIZONTAL BEND & 200 OFF 300 REDUCER	87.70	85.12
#4	HYDRANT TEE	87.59	85.09
#5	45° HORIZONTAL BEND	87.84	85.20
#6	45° HORIZONTAL BEND	87.83	85.23
#7	HYDRANT TEE	87.77	85.28
#8	W/M VERTICAL BEND (CROSSING)	87.87	85.79
#9	W/M (CROSSING)	87.88	85.28
#10	W/M TEE (300x200)	87.84	85.28
#11	W/M CROSS(200x200) & REDUCER 200 OFF 300	87.90	85.28
#12	W/M (CROSSING)	87.88	85.28
#13	W/M VERTICAL BEND (CROSSING)	87.87	85.92
#14	HYDRANT TEE	87.83	85.28
#15	W/M VERTICAL BEND (CROSSING)	87.93	86.10
#16	W/M (CROSSING)	87.93	85.33
#17	45° HORIZONTAL BEND	87.93	85.33
#18	45° HORIZONTAL BEND	87.91	85.33
#19	W/M SERVICE FOR BLOCK 6	87.92	85.35
#20	HYDRANT TEE	87.94	85.41
#21	W/M SERVICE FOR BLOCK 4	87.79	85.38
#22	22-1/2" HORIZONTAL BEND	87.83	85.38
#23	W/M SERVICE FOR BLOCK 3	87.97	85.37
#24	HYDRANT TEE	87.99	85.37
#25	W/M (CROSSING)	88.04	85.37
#26	W/M TEE (200x200)	88.02	85.37
#27	W/M SERVICE FOR BLOCK 2	88.05	85.36
#28	45° HORIZONTAL BEND	88.06	85.36
#29	45° HORIZONTAL BEND	88.05	85.36
#30	W/M (CROSSING)	88.05	85.36
#31	W/M VERTICAL BEND (CROSSING)	88.05	86.42
#32	HYDRANT TEE	88.02	85.36
#33	W/M VERTICAL BEND (CROSSING)	88.00	86.12
#34	W/M (CROSSING)	88.05	85.32
#35	W/M TEE (200x200)	87.95	85.32
#36	45° HORIZONTAL BEND	87.85	85.32
#37	W/M SERVICE FOR BLOCK 1	87.91	85.32
#38	45° HORIZONTAL BEND	87.95	85.32
#39	45° HORIZONTAL BEND	87.97	85.25
#40	45° HORIZONTAL BEND	87.90	85.23
#41	HYDRANT TEE	87.88	85.22
#42	22-1/2" HORIZONTAL BEND	87.87	85.25
#43	W/M (CROSSING) & REDUCER 100 OFF 200	87.94	85.28
#44	W/M VERTICAL BEND (CROSSING)	87.95	85.94
#45	W/M TEE (100x100)	87.93	85.50
#46	50mm OFF 100mm REDUCER	88.11	85.71
#47	19mm OFF 50mm REDUCER	88.11	85.71
#48	W/M VERTICAL BEND (CROSSING)	87.93	85.50
#49	50mm OFF 100mm REDUCER	88.11	85.71
#50	19mm OFF 50mm REDUCER	88.21	85.81
#51	19mm OFF 50mm REDUCER	87.87	85.50
#52	19mm OFF 50mm REDUCER	88.28	85.88
#53	19mm OFF 50mm REDUCER	88.02	85.56
#54	19mm OFF 50mm REDUCER	88.28	85.88
#55	19mm OFF 50mm REDUCER	88.28	85.88
#56	50mm W/M SERVICE FOR BLOCK 5	88.31	85.76
#57	19mm OFF 50mm REDUCER	88.58	86.18
#58	50mm W/M SERVICE FOR BLOCK 2	88.36	85.76
#59	19mm OFF 50mm REDUCER	86.60	86.20
#60	W/M CAP	88.36	85.76
#61	HYDRANT TEE	87.83	87.83
#62	22-1/2" HORIZONTAL BEND	87.88	85.27

NOTE:
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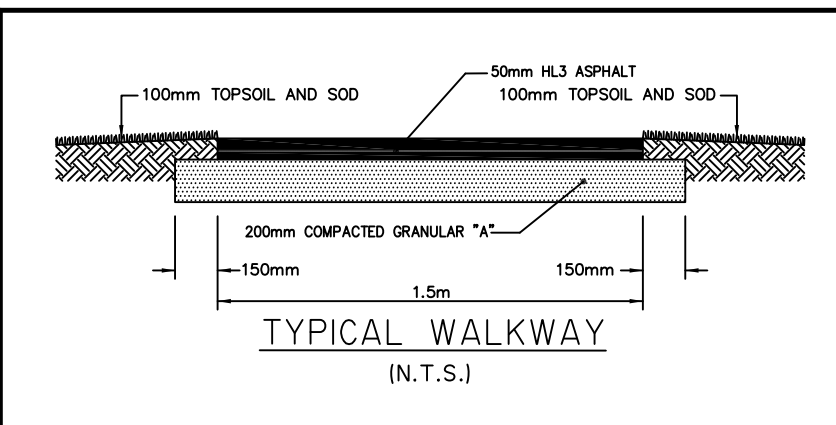
SCALE	DESIGN
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	CHECKED AGS
	DRAWN JSC
	CHECKED AGS
	APPROVED AGS



CITY OF OTTAWA
298 AXIS WAY
PLAN
GENERAL PLAN OF SERVICES

MINTO COMMUNITIES INC.
DRAWING No.
240801-SI

PROJECT No.
240801
DRAWING No.
240801-SI



LEGEND

89
VB
CICB

86.54
87.45
VP1
87.19
2.0%

86.54(9)
1/0=86.10
1/0=84.70

F.F.=88.42
T.F.W.=88.12
U.S.F.=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 VPI ELEVATION
% SLOPE
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 CGVD-1928
- BEARINGS HEREON ARE GRID BEARINGS DERIVED FROM THE CAN-NET NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MTM ZONE 9, 76°30' 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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1	FIRST SUBMISSION		DEC. 06/24	AGS

SCALE

5m 0 15m

DESIGN

AGS

CHECKED

AGS

DRAWN

JSC

CHECKED

AGS

APPROVED

AGS

1-2884 CHAMBERLAND STREET, ROCKLAND, ONTARIO K4K 1M6
TEL.: (813) 448-7423

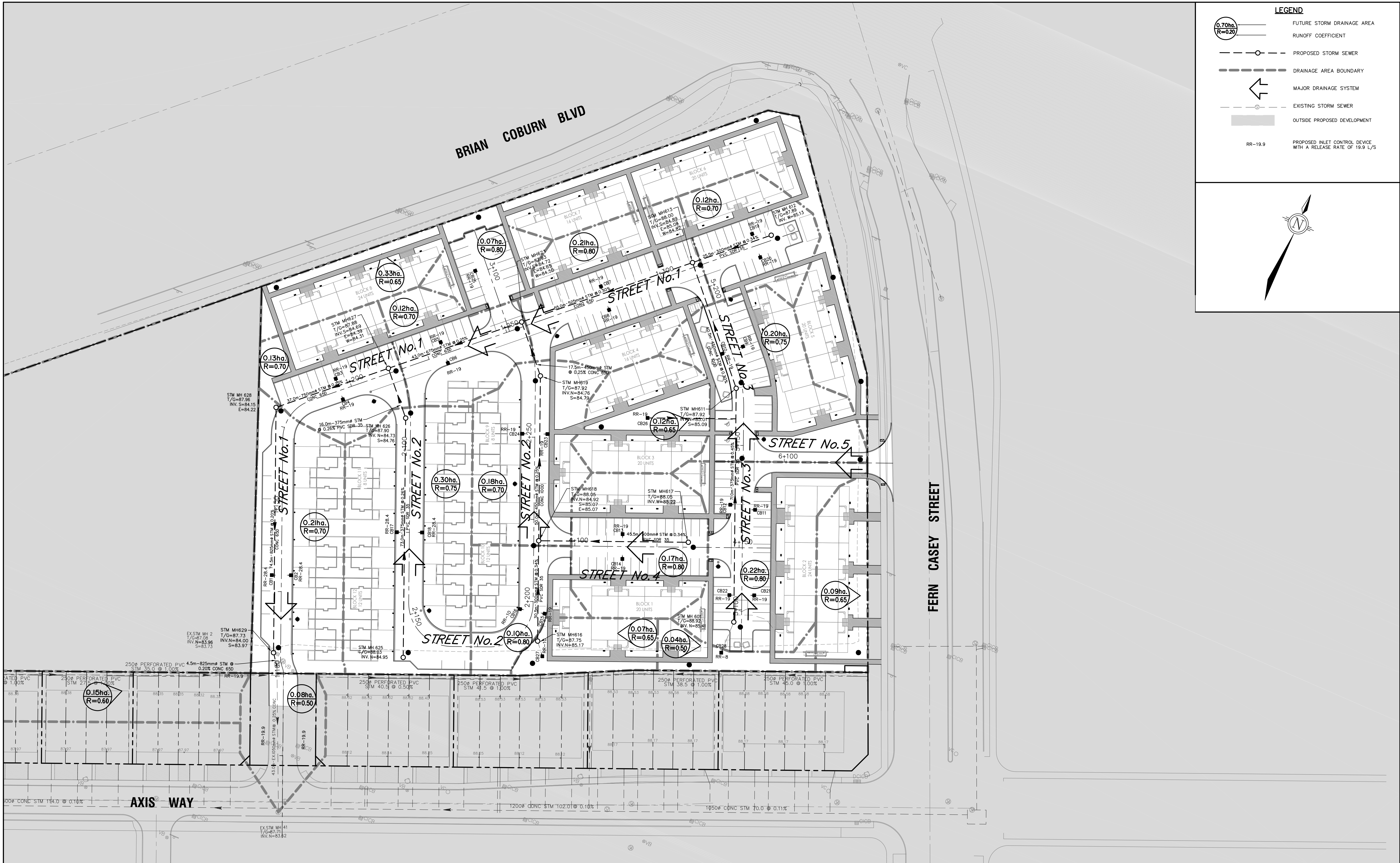
CITY OF OTTAWA
298 AXIS WAY

GRADING PLAN

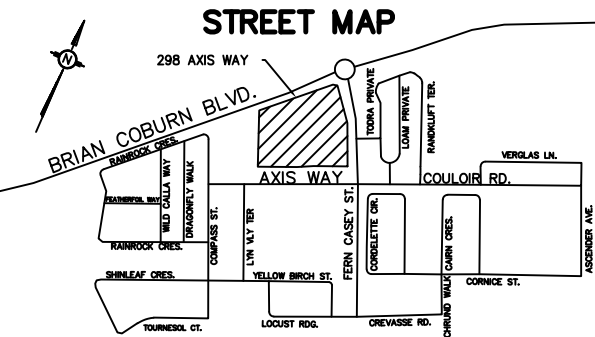
MINTO COMMUNITIES INC.

PROJECT No.
240801

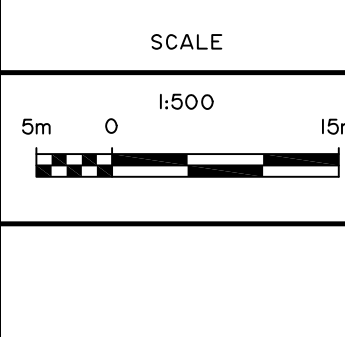
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240801-GRI



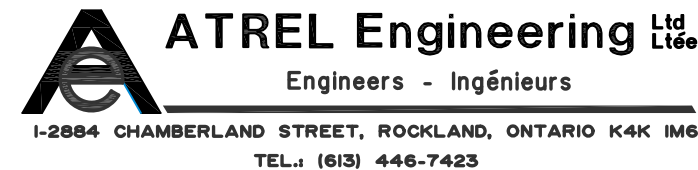
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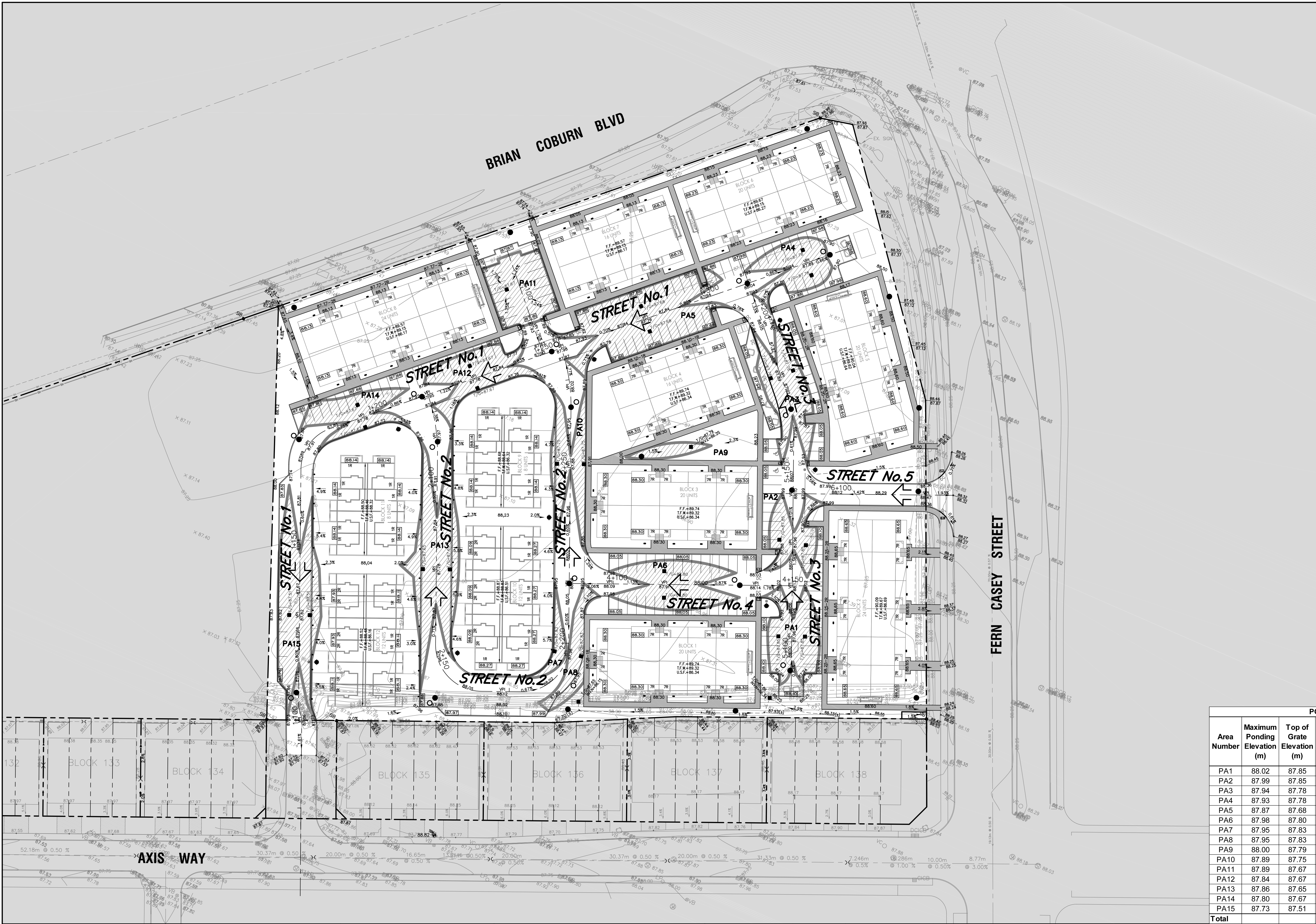
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1	FIRST SUBMISSION		DEC. 06/24	AGS



DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS



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



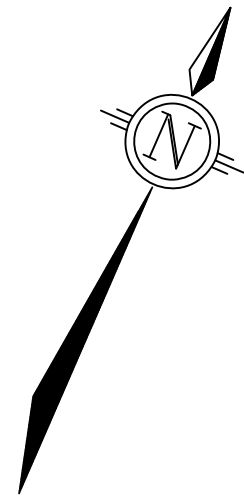
LEGEND

PONDING AREA

PONDING AREA No.

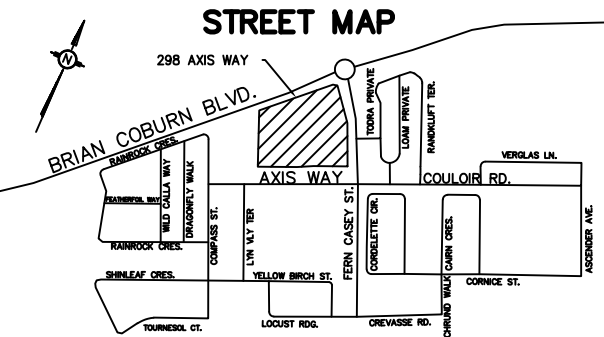
MAJOR DRAINAGE

PA10



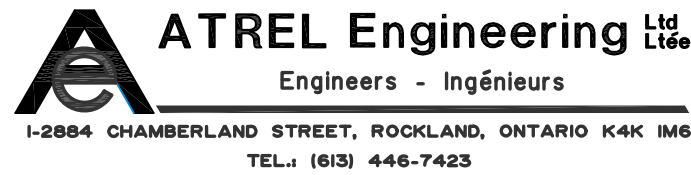
PONDING AREA TABLE							
Area Number	Maximum Ponding Elevation (m)	Top of Grate Elevation (m)	Maximum Ponding Depth (m)	Maximum Ponding Volume (m³)	CB VOLUME (M3)	Maximum Ponding Area (m²)	I.C.D Flow Release Rate (L/s)
PA1	88.02	87.85	0.17	19.31	1.00	291.28	38.0
PA2	87.99	87.85	0.14	10.33	1.00	199.79	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	10.66	1.00	237.62	38.0
PA15	87.73	87.51	0.22	46.47	1.00	601.22	56.8
Total				294.26	6.00		

NOTE:
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No.	REVISION	APPLIES WHEN DRAWING MODIFIED	DATE	BY
1	FIRST SUBMISSION		DEC. 06/24	AGS

SCALE	DESIGN
5m 0 15m	AGS
	CHECKED AGS
	DRAWN JSC
	CHECKED AGS
	APPROVED AGS

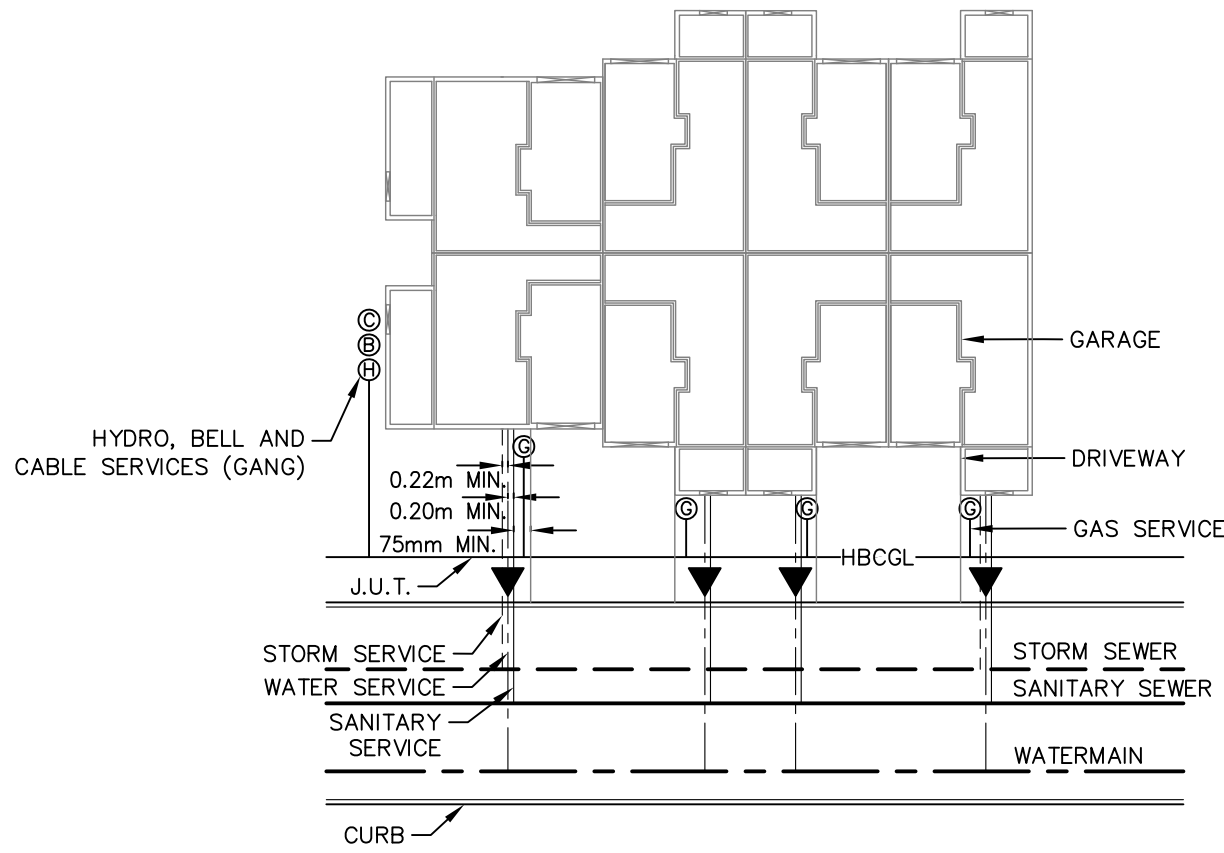


CITY OF OTTAWA
298 AXIS WAY

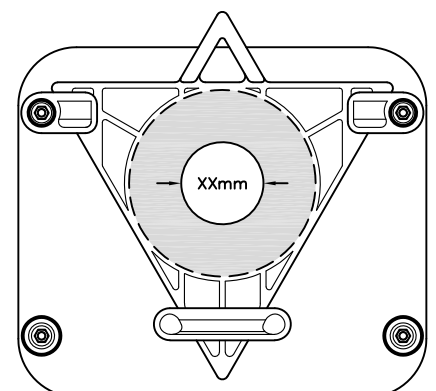
PLAN
PONDING AREA PLAN

MINTO
COMMUNITIES
INC.

PROJECT No.
240801
DRAWING No.
240801-PAI



TYPICAL SERVICE CONNECTIONS
(N.T.S.)



TYPICAL ROUND OPENING INLET CONTROL DEVICE (WALL MOUNT)
(INLET CONTROL DEVICES SHALL BE PER TIMPST MPT 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	87.51	88.02	86.27	RR- 28.4
2	87.51	88.02	86.27	RR- 28.4
3	87.67	87.99	86.24	RR- 19
4	87.67	87.99	86.24	RR- 19
5	87.67	87.94	86.19	RR- 19
6	87.67	87.94	86.19	RR- 19
7	87.68	87.93	86.18	RR- 19
8	87.68	87.93	86.18	RR- 19
9	87.78	87.87	86.12	RR- 19
10	87.78	87.87	86.12	RR- 10
11	87.85	87.98	86.23	RR- 19
12	87.85	87.98	86.23	RR- 19
13	87.80	87.95	86.2	RR- 19
14	87.80	87.95	86.2	RR- 19
15	87.83	87.95	86.2	RR- 19
16	87.83	87.95	86.2	RR- 19
17	87.65	88.00	86.25	RR- 28.4
18	87.65	88.00	86.25	RR- 28.4
19	87.78	87.89	86.14	RR- 19
20	87.78	87.89	86.14	RR- 19
21	87.85	87.84	86.09	RR- 19
22	87.85	87.84	86.09	RR- 19
23	87.75	87.86	86.11	RR- 19
24	87.75	87.86	86.11	RR- 19
25	87.67	87.89	86.14	RR- 19
26	87.79	87.80	86.05	RR- 19
27	87.65	87.90	86.15	RR- 10
28	87.86	88.09	86.34	RR- 8

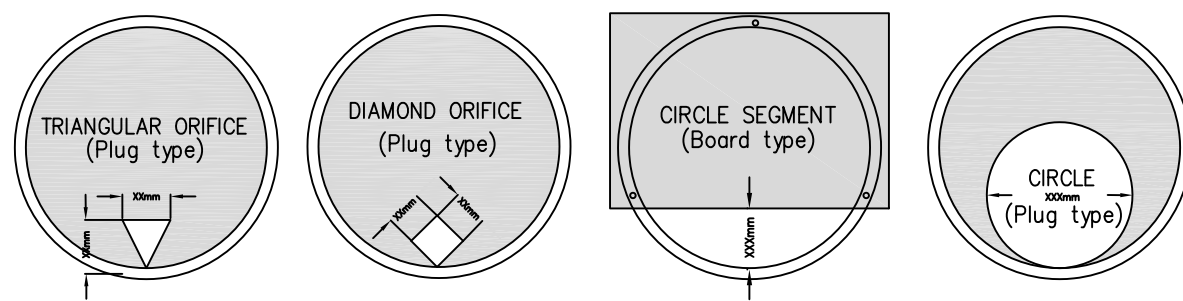
SANITARY MAINTENANCE HOLE TABLE			
MH NUMBER	DIMENSIONS	DRAWING	MH COVER
701 TO 708, 710 TO 712, 714 TO 717, 719 TO 724 & 726 TO 729.	1200mmø	240801-S1	OSDD S24.1 (CLOSED)
709, 713, 718 & 725.	1200mmø	240801-S1	OSDD S28.1 (OPEN)

*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

TEMPORARY CONSTRUCTION ICD OPENING



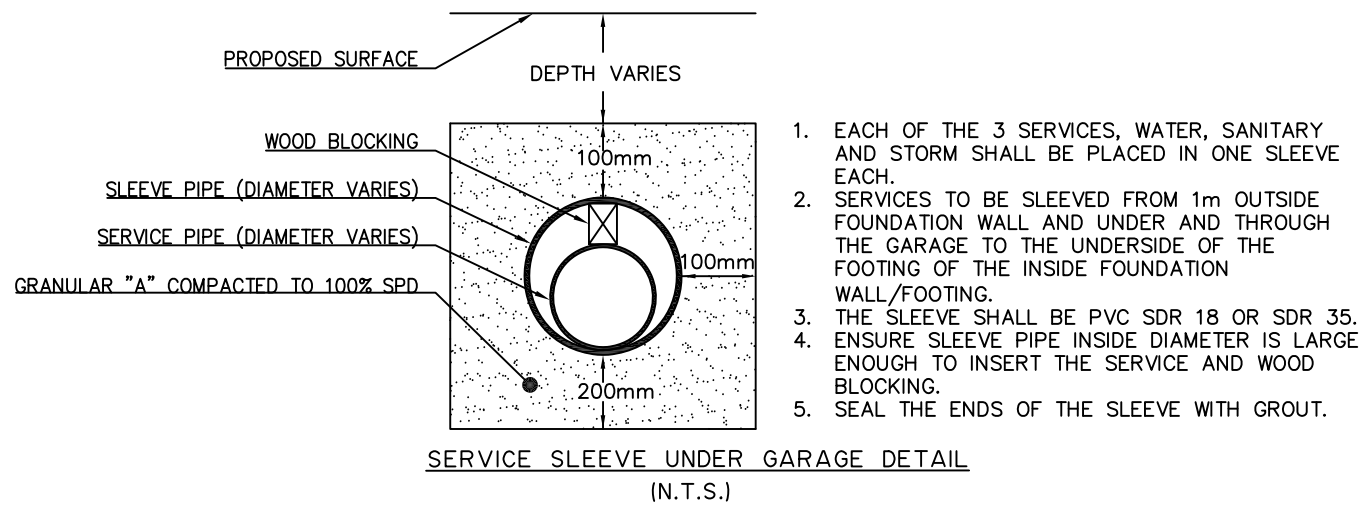
TEMPORARY CONSTRUCTION ICD TABLE				
MH NUMBER	INLET DIRECTION	PIPE SIZE	ICD TYPE	OPENING DIMENSION
SAN MH 2a	SOUTH	200mm	TRIANGULAR ORIFICE PLUG TYPE	70mm x 70mm
STM MH 2	SOUTH	1050mm	CIRCLE SEGMENT BOARD TYPE	231mm

STORM, SANITARY AND WATERMAIN CONFLICT TABLE

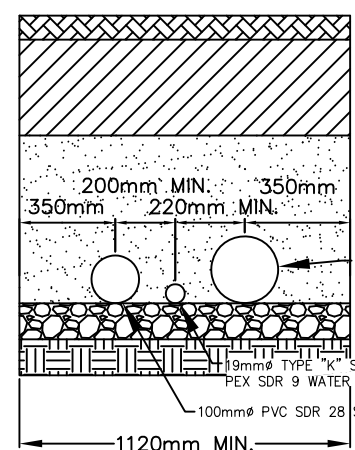
ID	DESCRIPTION	SANITARY INVERT	SANITARY OBVERT	STORM INVERT	STORM OBVERT	W/M INVERT	W/M OBVERT	BARREL TO BARREL SEPARATION
[1]	1.5m SOUTH of STM MH 627	83.56	83.76	84.63	85.08	N/A	N/A	0.78m
[2]	4.5m SOUTH of STM MH 627	N/A	N/A	84.27	85.09	85.59	85.79	0.50m
[3]	3.0m SOUTH of SAN MH 727	83.56	83.76	N/A	N/A	85.08	85.28	1.32m
[4]	3.0m WEST of SAN MH 723	83.68	83.88	N/A	N/A	85.08	85.28	1.20m
[5]	5.0m WEST of STM MH 623	N/A	N/A	84.57	85.24	85.74	85.94	0.50m
[6]	1.5m NORTH of SAN MH 723	83.87	84.07	84.55	85.22	N/A	N/A	0.37m
[7]	1.5m SOUTH of STM MH 623	83.69	83.89	84.70	85.22	N/A	N/A	0.71m
[8]	3.0m SOUTH of SAN MH 723	83.75	83.95	N/A	N/A	85.08	85.28	1.13m
[9]	4.5m SOUTH of STM MH 623	N/A	N/A	84.70	85.22	85.72	85.92	0.50m
[10]	3.0m SOUTH of SAN MH 722	83.87	84.07	N/A	N/A	85.30	85.50	1.23m
[11]	1.5m SOUTH of STM MH 613	83.88	84.08	84.94	85.39	N/A	N/A	0.77m
[12]	4.5m SOUTH of STM MH 613	N/A	N/A	84.95	85.40	85.90	86.10	0.50m
[13]	3.0m SOUTH of SAN MH 713	83.95	84.15	N/A	N/A	85.13	85.33	0.98m
[14]	1.5m NORTH of STM MH 611	84.12	84.32	85.06	85.51	N/A	N/A	0.65m
[15]	3.0m EAST of SAN MH 709	84.24	84.44	N/A	N/A	85.17	85.37	0.73m
[16]	3.0m SOUTH of SAN MH 708	84.35	84.55	N/A	N/A	85.56	85.76	1.01m
[17]	21.0m NORTH of SAN MH 701	84.37	84.57	N/A	N/A	86.22	86.42	1.67m
[18]	19.5m NORTH of STM MH 601	N/A	N/A	85.35	85.72	86.22	86.42	0.50m
[19]	1.5m EAST of SAN MH 718	84.05	84.25	85.11	85.41	N/A	N/A	0.78m
[20]	4.5m SOUTH of STM MH 618	N/A	N/A	85.12	85.42	85.92	86.12	0.50m
[21]	3.0m SOUTH of SAN MH 718	84.00	84.20	N/A	N/A	85.92	86.12	1.72m

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

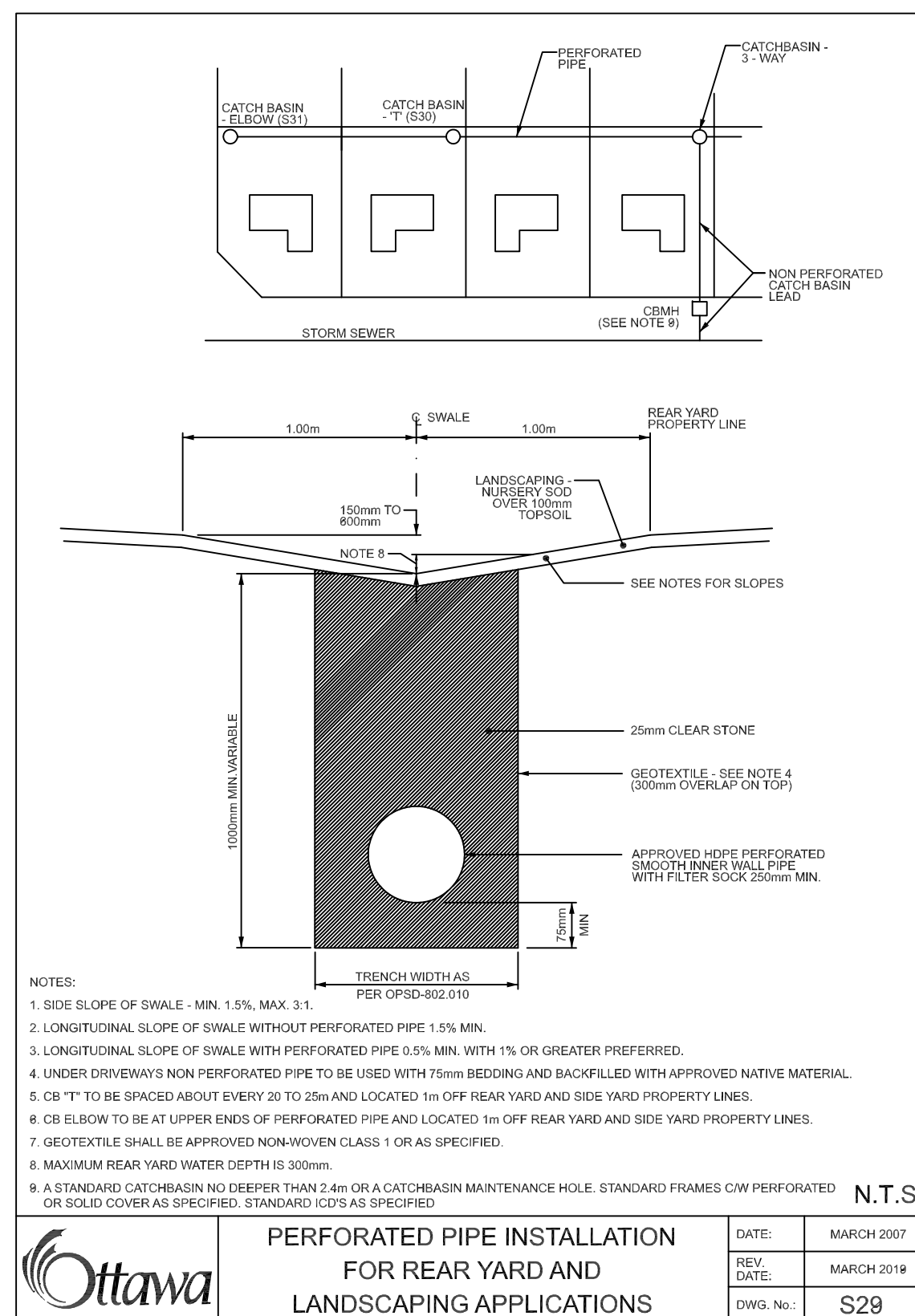


NOTE:
SERVICES ARE TO HAVE BENDS WITHIN THE PRIVATE PROPERTY ONLY AND NOT WITHIN THE R.O.W..

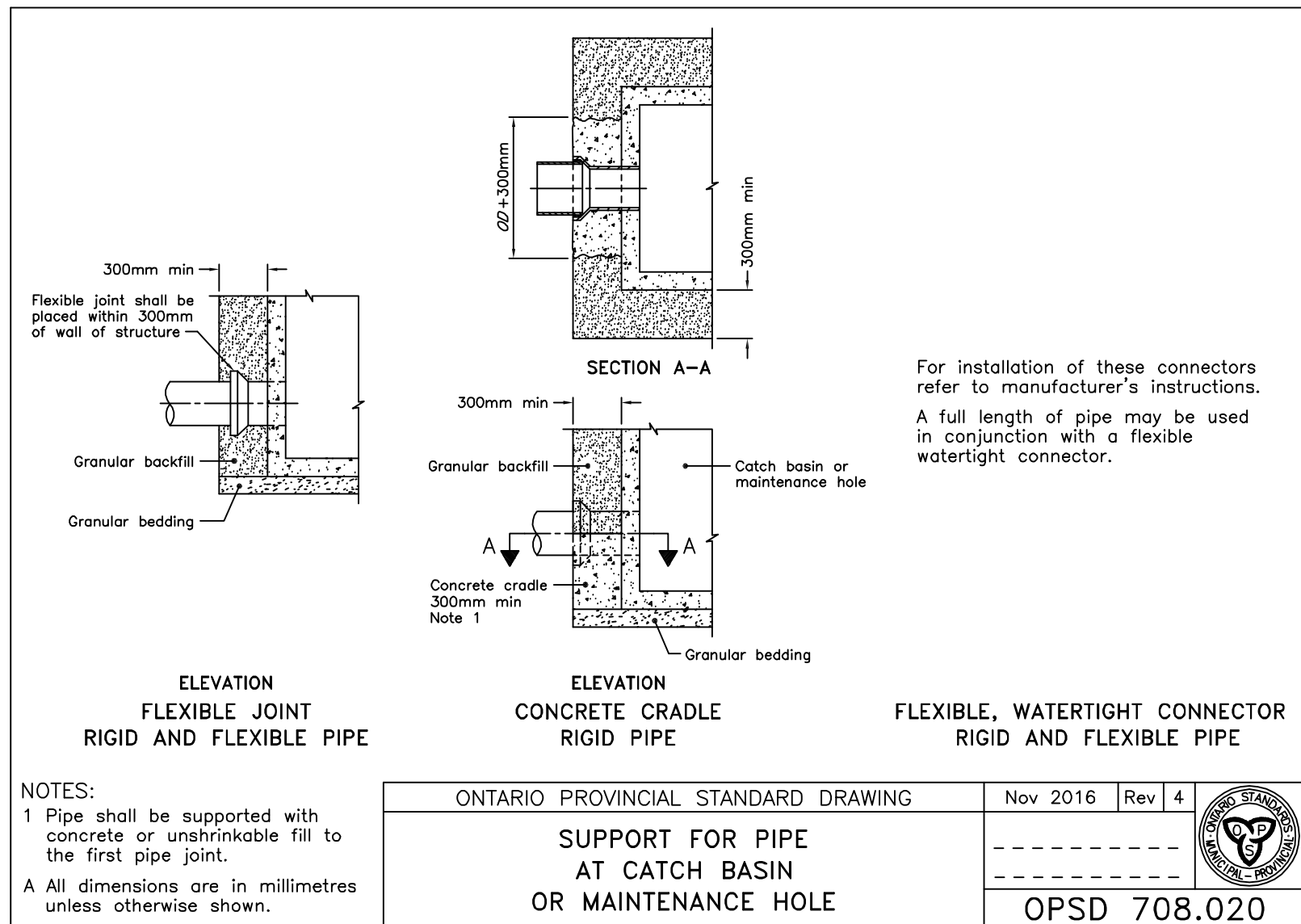


- NOTES:
- NO HORIZONTAL BENDS IN R.O.W. UNLESS OTHERWISE APPROVED BY THE CITY.
 - MAXIMUM OF TWO (2) 22.5° HORIZONTAL BENDS FOR SANITARY AND STORM SERVICES.
 - 1% MINIMUM SANITARY AND STORM SERVICE GRAVITY WITH 2% PREferred.
 - SEE CITY OF OTTAWA STANDARD DETAIL DRAWING S2 FOR PIPE FOUNDATION, EMBEDEDMENT AND BACKFILL REQUIREMENTS.
 - MULTIPLE TAPS WITH SADDLES IN PVC WATERMAIN SHALL BE STAGGERED AND MINIMUM 600mm APART.

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

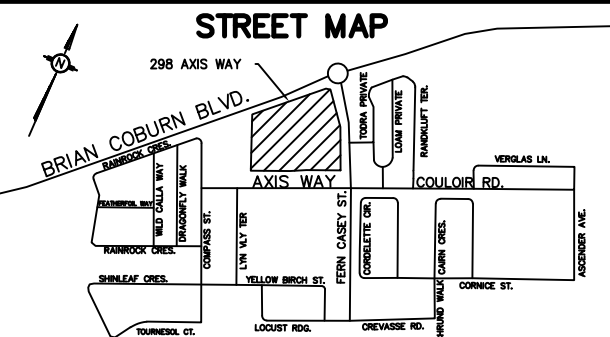


PERFORATED PIPE INSTALLATION FOR REAR YARD AND LANDSCAPING APPLICATIONS		DATE:	MARCH 2007
		REV. DATE:	MARCH 2018
		DWG. No.:	S29



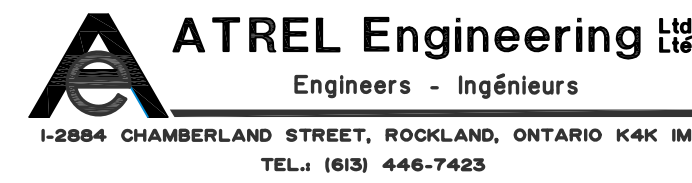
NOTES:		ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2016	Rev 4	
1 Pipe shall be supported with concrete or unshrinkable fill to the first pipe joint.		SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE		-----		
A All dimensions are in millimetres unless otherwise shown.				OPSD 708.020		

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	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