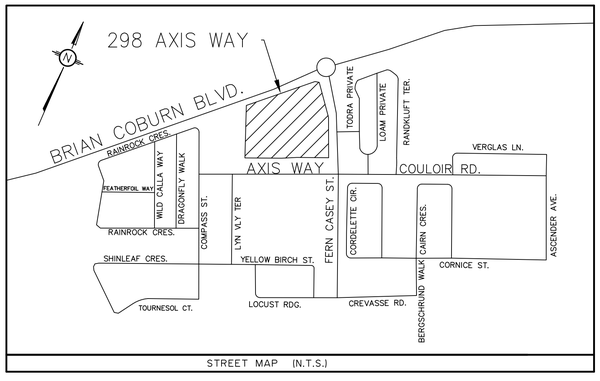
minto
Communities

SITE SERVICING PLAN
298 AXIS WAY



STREET MAP (N.T.S.)

CONTRACT NO. 240801

ATREL Engineering Ltd Ltée
Engineers - Ingénieurs

PLAN AND PROFILES

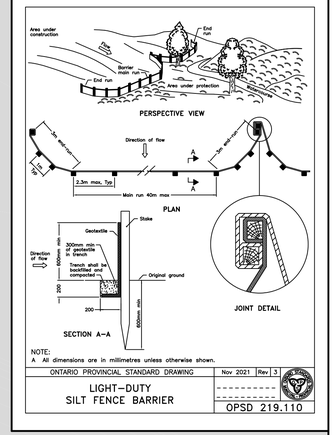
240801-ESC1	EROSION AND SEDIMENT CONTROL PLAN
240801-R1	REMOVAL PLAN
240801-S1	GENERAL PLAN OF SERVICES
240801-GR1	GRADING PLAN
240801-SAN1	SANITARY DRAINAGE AREA PLAN
240801-STM1	STORM DRAINAGE AREA PLAN
240801-PA1	PONDING AREA PLAN
240801-U1	COMPOSITE UTILITY PLAN (NOT INCLUDED)
240801-TD1	TYPICAL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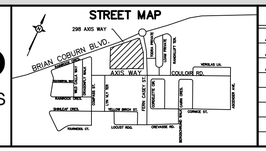
minto Communities

STREET MAP



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SCALE 1:500 (5m 0 15m)

DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS

LICENSED PROFESSIONAL ENGINEER — A. G. Y. SAUVE — 100142393 — NOV 12, 2025 — PROVINCE OF ONTARIO

ATREL Engineering Ltd. Ltée
Engineers - Ingénieurs
1-2864 CHAMBERLAND STREET, ROCKLAND, ONTARIO K4K 1M6
TEL.: (613) 446-7423

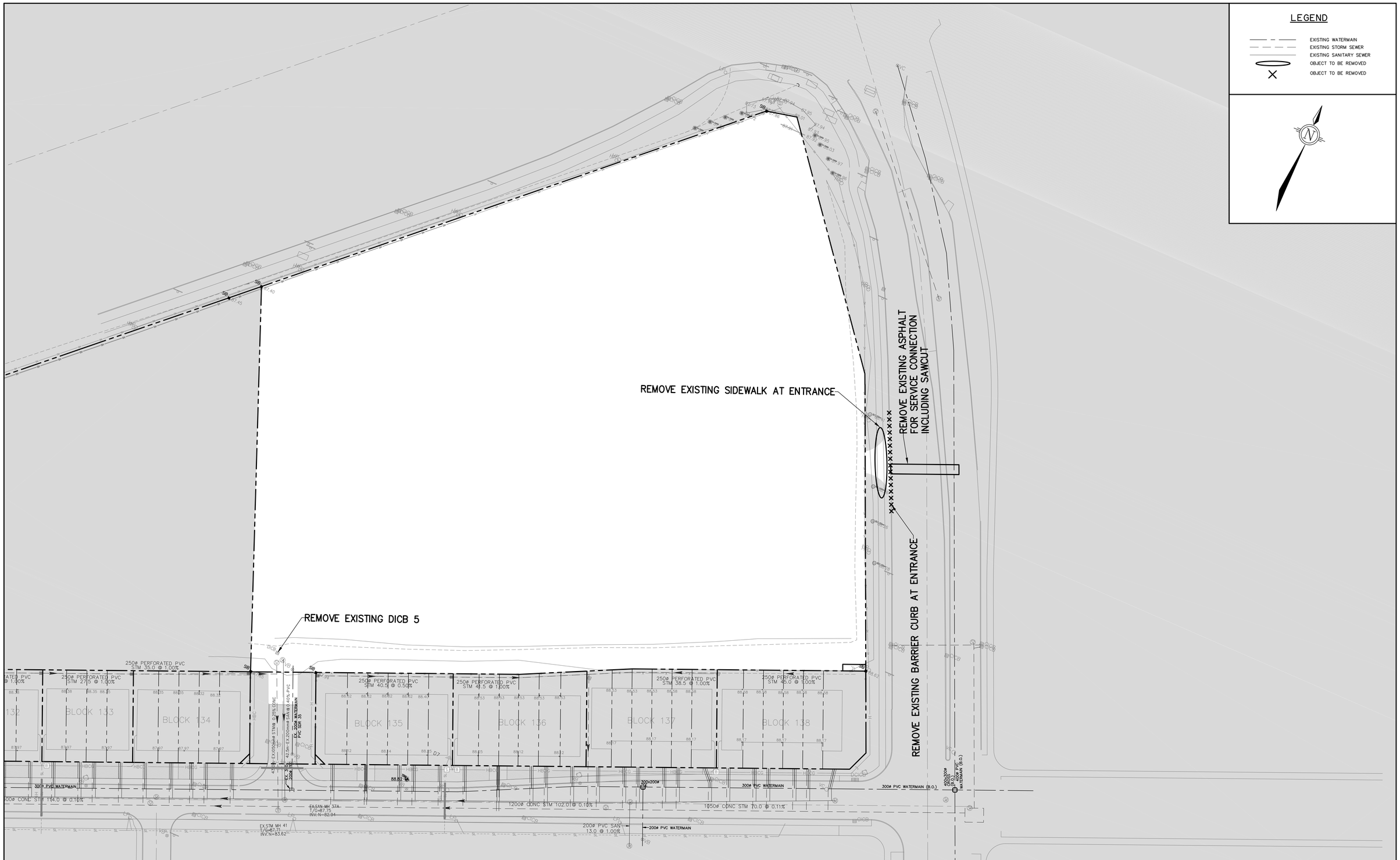
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN EROSION AND SEDIMENT CONTROL PLAN

DRAWING No. 240801-ESC1



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minto Communities

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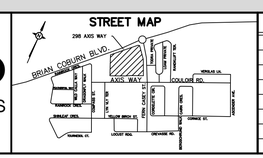

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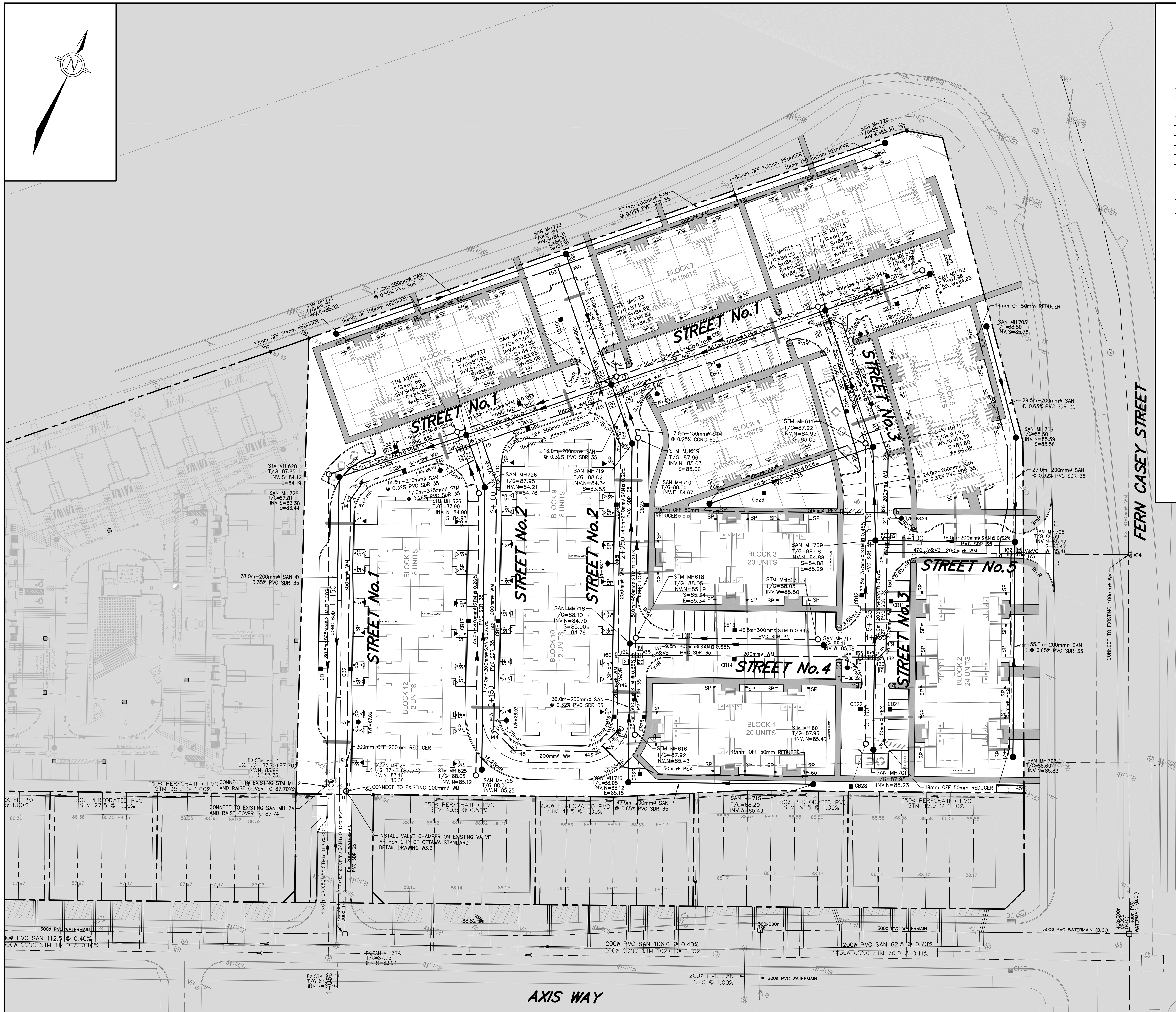
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
REMOVAL PLAN

DRAWING No. 240801-R1



LEGEND	
	EXISTING FIRE HYDRANT
VC	EXISTING VALVE AND VALVE CHAMBER
VB	EXISTING VALVE AND VALVE BOX
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
CICB	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
45°	PROPOSED BEND C/W THRUSTBLOCK (SPECIAL DESIGN)
	PROPOSED CAP C/W THRUSTBLOCK (SPECIAL DESIGN)
V&VB	PROPOSED VALVE AND VALVE BOX
V&VC	PROPOSED VALVE AND VALVE CHAMBER
	PROPOSED FIRE HYDRANT
	PROPOSED CATCHBASIN C/W 200mmø CB LEAD
	50mm THICK INSULATION 1.2m WIDE SM HI-40
	100mm THICK INSULATION 1.2m WIDE SM HI-40
T/F=87.38	PROPOSED TOP OF FLANGE ELEVATION
9mR	CURB RADIUS
	PROPOSED 1.5m ASPHALT PATHWAY
	OUTSIDE PROPOSED SITE PLAN
12	MAIN PIPES CROSSING ID
‡35	WATERMAIN TABLE ID
•SP	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)
	TACTILE WALKING SURFACE INDICATOR AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS SC 7 AND SC 7.3
TBM	TBM: TEMPORARY BENCHMARK (GEODETIC) : ELEVATION–HYDRANT TOP OF SPINDLE, EAST OF ENTRANCE 298 AXIS WAY ELEV.=88.82

NOTES:

1. 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
2. PROVIDE INSULATION AT CATCHBASINS IN ACCORDANCE WITH CITY OF OTTAWA'S STANDARD DETAIL DRAWING (OSDD) W23.
3. ALL PROPOSED WATER SERVICES AND MAINS MUST HAVE MINIMUM COVER OF 2.4m. OTHERWISE PROVIDE THERMAL INSULATION AS PER OSDD W22.
4. INSTALL ALL SERVICES IN ACCORDANCE WITH CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS R21, W26, W36, W38 AND S11.1.
5. PROVIDE CATHODIC PROTECTION ON WATERMAIN AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS AND SPECIFICATIONS.
6. RESTRAIN ALL BENDS, TEES, AND CAPS TO CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS AND SPECIFICATIONS.
7. ALL CONNECTION TO EXISTING WATERMAIN STUB IS PERFORM BY THE CITY OF OTTAWA THE EXCAVATION, BACKFILL AND REINSTATEMENT IS PERFORM BY THE CONTRACTOR.
8. CONNECT TO EXISTING WATERMAIN VIA T.V.S. VALVE CHAMBER AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING W11.1
9. 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.
10. 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 W25.3 & W25.4).
11. ALL STORM SEWERS 900mm AND GREATER TO BE BENCHED. ALL SANITARY MANHOLES TO BE BENCHED. SEWER SHALL HAVE CLASS "B" BEDDING.
12. THE CITY OF OTTAWA WILL NOT PERMIT ANY ENCROACHMENTS ONTO ANY REAR YARD CATCH BASIN LEAD DRAINAGE EASEMENTS.
13. 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.
14. 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.
15. CONTRACTOR IS TO REPAIR BENCHING TO ALL EXISTING SAN MANHOLE PRIOR TO CONNECTIONS
16. SPECIAL PIPE BEDDING AND COVER IS REQUIRED IN AREAS OF GRAY SILTY CLAY AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILL.
17. CURBS SHALL BE CONCRETE BARRIER CURB AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING SC1.1 UNLESS NOTED ON PLAN 240801–GR1.
17. MOUNTABLE CURBS SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING SC1.3 REFER TO PLAN 240801–GR1 FOR LOCATION OF MOUNTABLE CURBS.
18. ALL MANHOLE COVERS ARE TO HAVE RUBBER PLUGS. AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS S24 AND S24.1
19. 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.
20. FOUNDATION DRAINS BACKWATER VALVE INSTALLATION SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING S14.
21. SANITARY BACKWATER VALVE INSTALLATION SHALL BE AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWING S14.1.
22. 50mmø PEX SHALL BE BLUE 904 SDR 9 PEX OR EQUIVALENT.
23. WATERMAIN SHALL BE PVC DR 18.
24. ALL SIDEWALKS SHALL BE HANDICAP ACCESSIBLE AND AS PER CITY OF OTTAWA'S STANDARD DETAIL DRAWINGS SC4, SC6 AND SC7.2.

WATERMAIN TABLE #1

LOCATION	ID	DESCRIPTION	FINISHED ELEVATION	TOP /WM ELEVATION
1+200	1	CONNECTION TO EX. 200mmØ STUB	87.75	85.35
1+208.5	2	200 OFF 300 REDUCER	87.70	85.26
1+218.5	3	HYDRANT TEE	87.64	85.13
1+277	4	45 HORIZONTAL BEND	87.83	85.31
1+282.5	5	45 HORIZONTAL BEND	87.83	85.33
1+203.5	6	HYDRANT TEE	87.79	85.32
1+209.5	7	W/M VERTICAL BEND	87.84	85.84
1+212	8	SAN CROSSING	87.86	85.30
1+216	9	W/M TEE (300X200)	87.86	85.30
1+226.5	10	300mmØ VALVE & VALVE BOX	87.73	85.30
1+247	11	200mm OFF 300mm REDUCER	87.86	85.30
1+249.5	12	W/M CROSS (200 X 200)	87.88	85.31
1+153	13	SAN CROSSING	87.91	85.33
1+255.5	14	W/M VERTICAL BEND	87.79	85.95
1+260.5	15	200mmØ VALVE & VALVE BOX	87.93	85.37
1+262.5	16	HYDRANT TEE	87.86	85.39
1+280	17	VPI	87.71	85.30
1+208	18	W/M VERTICAL BEND	87.99	85.82
1+210.5	19	W/M VERTICAL BEND	87.97	85.49
1+212	20	45 HORIZONTAL BEND	87.97	85.49
5+203	21	45 HORIZONTAL BEND	87.89	85.49
5+201	22	50mmØ SERVICE FOR BLOCK 6	87.94	85.51
5+199.5	23	HYDRANT TEE	87.95	85.53
5+174.5	24	50mmØ SERVICE FOR BLOCK 4	87.83	85.43
5+168	25	22-1/2 HORIZONTAL BEND	88.02	85.55
5+153.5	26	50mmØ SERVICE FOR BLOCK 3	87.98	85.56
5+152.5	27	HYDRANT TEE	87.98	85.56
5+146.5	28	W/M VERTICAL BEND	87.99	86.00
5+143.5	29	W/M TEE (200X200)	88.01	85.50
5+133.5	30	200mmØ VALVE & VALVE BOX	87.87	85.45
5+118.5	31	45 HORIZONTAL BEND	88.02	85.58
5+117	32	50mmØ SERVICE FOR BLOCK 2	88.07	85.63
5+116.5	33	45 HORIZONTAL BEND	88.07	85.67
4+151	34	SAN CROSSING	88.07	85.77
4+148.5	35	W/M VERTICAL BEND	87.93	86.17
4+146.5	36	HYDRANT TEE	88.00	85.59
4+095	37	200mmØ VALVE & VALVE BOX	87.92	85.52
4+091.5	38	W/M VERTICAL BEND	88.01	86.16
4+011	39	SAN CROSSING	88.08	85.68

WATERMAIN TABLE #2

LOCATION	ID	DESCRIPTION	FINISHED ELEVATION	TOP /WM ELEVATION
2+094	40	200mmØ VALVE & VALVE BOX	87.88	85.37
2+096	41	22-1/2 HORIZONTAL BEND	87.89	85.37
2+132	42	VPI	87.65	85.25
2+157	43	HYDRANT TEE	87.87	85.34
2+161	44	45 HORIZONTAL BEND	87.90	85.34
2+170	45	45 HORIZONTAL BEND	87.97	85.35
2+193.5	46	45 HORIZONTAL BEND	87.97	85.35
2+196	47	50mmØ SERVICE FOR BLOCK 1	87.94	85.35
2+197	48	45 HORIZONTAL BEND	87.92	85.36
2+216	49	200mmØ VALVE & VALVE BOX	87.92	85.37
2+223.5	50	W/M TEE (200X200)	87.98	85.37
2+247.5	51	HYDRANT TEE	87.88	85.38
2+278.5	52	22-1/2 HORIZONTAL BEND	87.89	85.38
2+280	53	200mmØ VALVE & VALVE BOX	87.90	85.38
2+294	54	100mm OFF 200mm REDUCER	87.93	85.38
2+296	55	STORM CROSSING	87.86	85.53
2+299	56	100mmØ VALVE & VALVE BOX	87.87	85.47

WATERMAIN TABLE #3

LOCATION	ID	DESCRIPTION	FINISHED ELEVATION	TOP /WM ELEVATION
6+101	70	200mmØ VALVE & VALVE BOX	88.06	85.66
6+120	71	50mmØ SERVICE FOR BLOCK 5	88.32	85.92
6+123	72	50mmØ SERVICE FOR BLOCK 2 & VERTICAL BEND	88.36	86.19
6+126.5	73	200mmØ VALVE & VALVE CHAMBER	88.40	86.00
6+153.5	74	CONNECTION TO EX. 400mmØ	88.38	±85.98

WATERMAIN TABLE #4

LOCATION	ID	DESCRIPTION	FINISHED ELEVATION	TOP /WM ELEVATION
BLOCK 6 - 8	57	19mm OFF 50mm REDUCER	88.12	85.70
	58	50mm OFF 100mm REDUCER	88.12	85.70
	59	W/M TEE (100X100)	87.90	85.50
	60	SAN CROSSING	87.90	85.50
	61	50mm OFF 100mm REDUCER	88.15	85.70
	62	19mm OFF 50mm REDUCER	88.17	85.70
BLOCK 1	65	19mm OFF 50mm REDUCER	88.28	85.88
BLOCK 2	76	19mm OFF 50mm REDUCER	88.63	86.23
BLOCK 5	78	19mm OFF 50mm REDUCER	88.58	86.18
1+336	80	19mm OFF 50mm REDUCER	87.92	85.52
5+088	81	19mm OFF 50mm REDUCER	87.82	85.40

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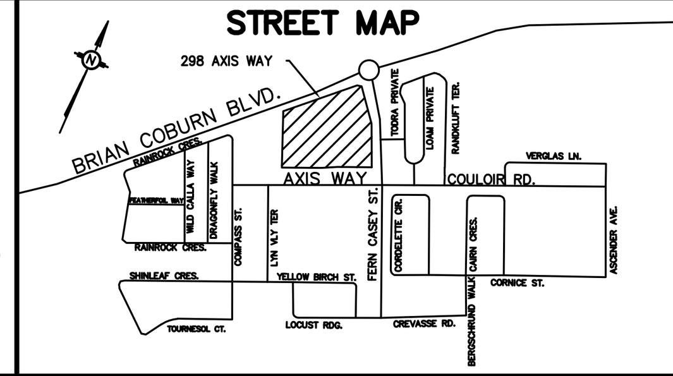

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A. G. Y. SAUVE
100142393
Nov. 12, 2025
PROVINCE OF ONTARIO

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CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
GENERAL PLAN OF SERVICES

DRAWING No. 240801-S1

TYPICAL WALKWAY
(N.T.S.)

LEGEND

- 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
- F.F.=88.42 PROPOSED FINISH FLOOR ELEVATION; TFW=88.12 TOP OF FOUNDATION WALL; USF=85.60 PROPOSED UNDERSIDE OF FOOTING AT FRONT OF HOUSE
- 7R NUMBER OF RISERS
- PROPOSED CATCHBASIN
- MAJOR DRAINAGE SYSTEM
- TERRACING 3:1 (MAXIMUM SLOPE)
- HYDRO POLES
- OUTSIDE PROPOSED DEVELOPMENT
- DEPRESSED CURB
- IB IRON BAR
- SIB 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 IT'S RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

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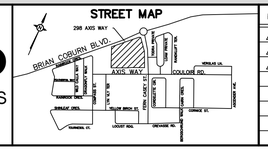

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CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

GRADING PLAN

DRAWING No. 240801-GRI

NOTE:
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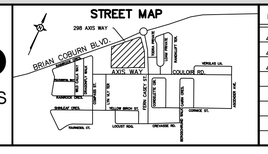
minto Communities

STREET MAP



No.	REVISION △-APPLIES WHEN DRAWING MODIFIED	DATE	BY
1	FIRST SUBMISSION	DEC. 06/24	AGS
2	SECOND SUBMISSION	APR. 24/25	AGS
3	THIRD SUBMISSION	NOV. 12/25	AGS

SCALE
1:500
5m 0 15m

DESIGN	AGS
CHECKED	AGS
DRAWN	JSC
CHECKED	AGS
APPROVED	AGS

LICENSED PROFESSIONAL ENGINEER
A. G. Y. SAUVE
100142393
Nov 12, 2025
PROVINCE OF ONTARIO

ATREL Engineering Ltd Ltée
Engineers - Ingénieurs
1-2884 CHAMBERLAND STREET, ROCKLAND, ONTARIO K4K 1M6
TEL.: (613) 446-7423

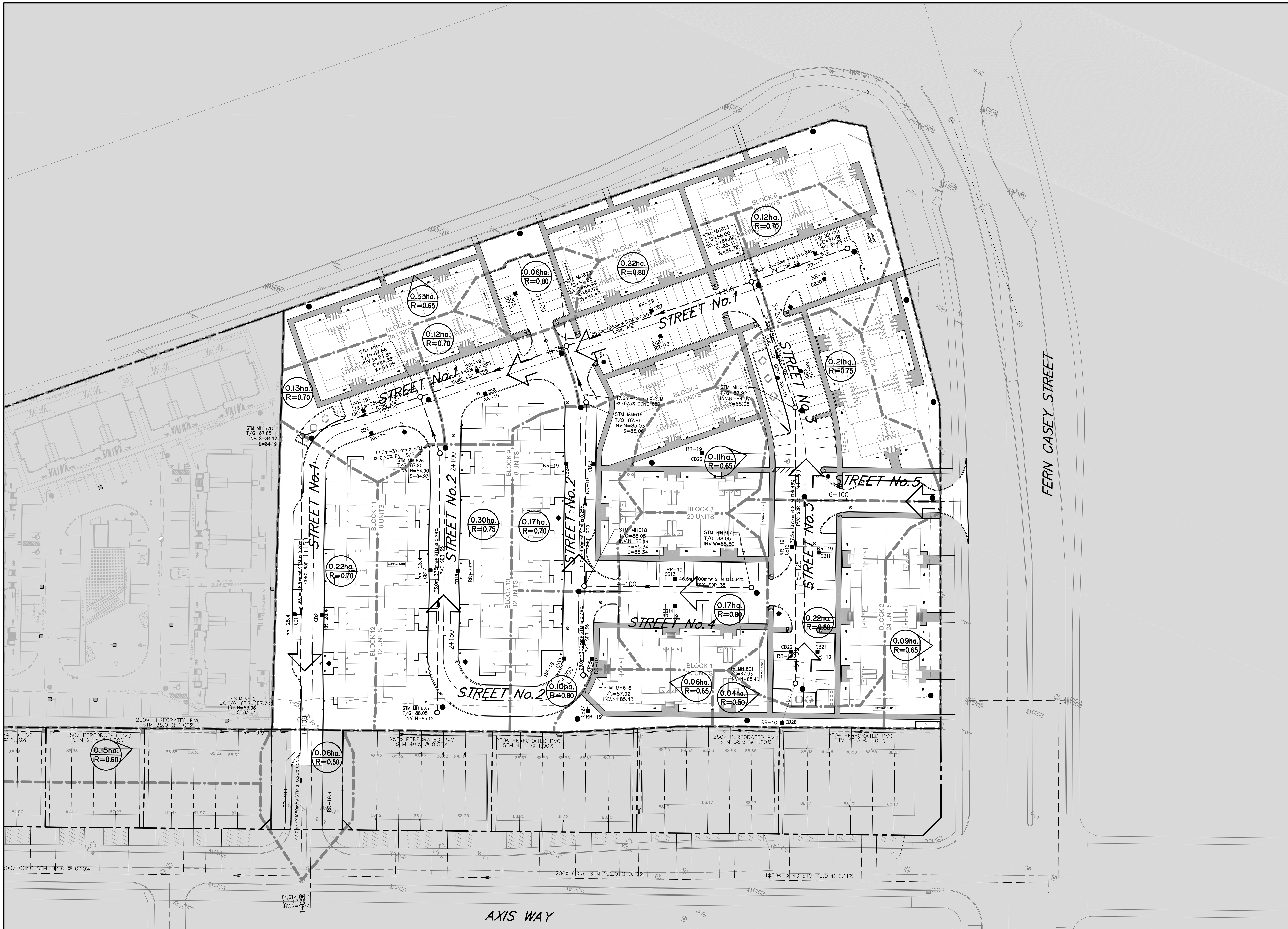
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
SANITARY DRAINAGE AREA PLAN

DRAWING No. 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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298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
STORM DRAINAGE AREA PLAN

DRAWING No. 24080I-STMI

PONDING AREA TABLE						
Area Number	Maximum Ponding Elevation (m)	Top of Grate Elevation (m)	Maximum Ponding Depth (m)	Maximum Ponding Volume (m^3)	Maximum Ponding Area (m^2)	I.C.D Flow Release Rate (L/s)
PA1	88.09	87.86	0.23	2.47	36.51	10.0
PA2	88.02	87.85	0.17	17.08	284.63	38.0
PA3	87.99	87.85	0.14	9.70	207.31	38.0
PA4	87.94	87.78	0.16	16.43	309.01	38.0
PA5	87.93	87.78	0.15	12.70	265.97	38.0
PA6	87.87	87.68	0.19	39.03	618.77	38.0
PA7	87.98	87.80	0.18	22.19	368.74	38.0
PA8	88.03	87.65	0.38	8.63	65.75	19.0
PA9	87.97	87.83	0.14	9.70	217.51	38.0
PA10	88.00	87.79	0.21	5.56	84.98	19.0
PA11	87.89	87.75	0.14	9.02	201.47	38.0
PA12	87.89	87.67	0.22	29.31	332.98	19.0
PA13	87.84	87.67	0.17	16.62	308.69	38.0
PA14	87.86	87.65	0.21	26.39	392.97	56.8
PA15	87.80	87.67	0.13	7.97	200.58	38.0
PA16	87.72	87.44	0.28	46.32	481.18	56.8
Total				279.12		

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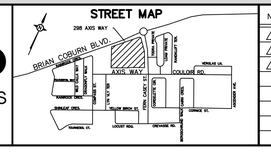

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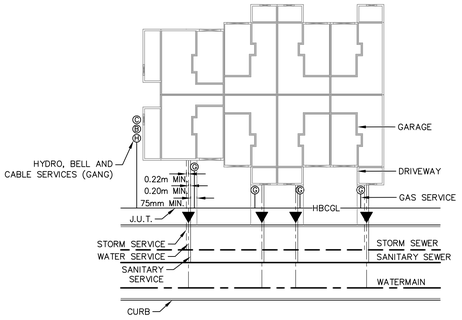
CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
PONDING AREA PLAN

DRAWING No. 240801-PAI



TYPICAL SERVICE CONNECTIONS
(N.T.S.)

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	87.52	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- 19
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	87.97	86.22	RR- 19
16	87.83	87.97	86.22	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	87.98	86.23	RR- 19
26	87.79	88.00	86.25	RR- 19
27	87.65	88.03	86.28	RR- 19
28	87.91	88.15	86.40	RR- 10

SANITARY MAINTENANCE HOLE TABLE			
MH NUMBER	DIMENSIONS	DRAWING	MH COVER
ALL	1200mmø	240801-S1	OSDD S24

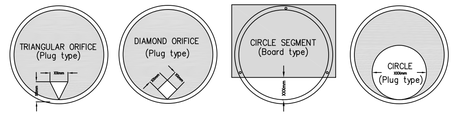
*OSDD = OTTAWA STANDARD DETAIL DRAWINGS

STORM MAINTENANCE HOLE TABLE			
MH NUMBER	DIMENSIONS	DRAWING	MH COVER
ALL	1200mmø	240801-S1	OSDD S24.1 (CLOSED)

*OSDD = OTTAWA STANDARD DETAIL DRAWINGS

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 (m)
1	1.5m SOUTH OF STM MH 627	83.56	83.76	84.86	85.23	N/A	N/A	1.01
2	4.5m SOUTH OF STM MH 627	N/A	N/A	84.87	85.24	85.54	85.84	0.30
3	3.0m SOUTH OF SAN MH 727	84.17	84.37	N/A	N/A	85.00	85.30	0.63
4	3.0m WEST OF SAN MH 723	83.68	83.84	N/A	N/A	85.28	85.38	1.44
5	5.0m WEST OF STM MH 623	N/A	N/A	84.46	85.13	85.43	85.53	0.30
6	1.5m NORTH OF SAN MH 723	83.85	84.05	84.47	85.14	N/A	N/A	0.31
7	1.5m SOUTH OF STM MH 623	83.95	84.15	84.47	85.44	N/A	N/A	0.75
8	3.0m SOUTH OF SAN MH 723	84.30	84.50	N/A	N/A	85.13	85.33	0.63
9	4.5m SOUTH OF STM MH 623	N/A	N/A	85.00	85.45	85.75	85.95	0.30
10	3.0m SOUTH OF SAN MH 722	84.18	84.38	N/A	N/A	85.40	85.50	1.02
11	1.5m SOUTH OF STM MH 613	84.14	84.34	84.86	85.31	N/A	N/A	0.43
12	4.5m SOUTH OF STM MH 613	N/A	N/A	84.87	85.32	85.62	85.82	0.30
13	3.0m SOUTH OF SAN MH 713	84.21	84.41	N/A	N/A	85.29	85.49	0.88
14	1.5m NORTH STM MH 611	84.38	84.58	84.97	85.42	N/A	N/A	0.30
15	3.0m EAST OF SAN MH 709	85.30	85.50	N/A	N/A	85.80	86.00	0.30
16	3.0m SOUTH OF SAN MH 708	85.49	85.69	N/A	N/A	85.99	86.19	0.30
17	21.0m NORTH OF SAN MH 701	85.07	85.27	N/A	N/A	85.57	85.77	0.30
18	19.5m NORTH OF STM MH 601	N/A	N/A	85.30	85.67	85.97	86.17	0.30
19	1.5m EAST OF SAN MH 718	84.76	84.96	85.34	85.64	N/A	N/A	0.30
20	4.5m SOUTH OF STM MH 618	N/A	N/A	85.36	85.66	85.96	86.16	0.30
21	3.0m SOUTH OF SAN MH 718	85.01	85.21	N/A	N/A	85.48	85.68	0.27

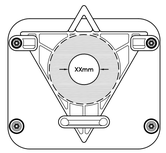
TEMPORARY CONSTRUCTION ICD OPENING



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	266mm

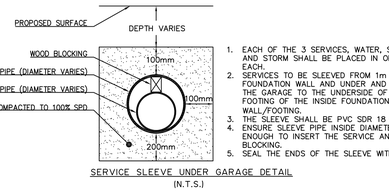
INLET CONTROL DEVICE DESIGN

RR	Flow, Q (L/s)	Orifice Type	Head (m)	Orifice Size (m)	Orifice Area (m²)
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



TYPICAL ROUND OPENING INLET CONTROL DEVICE (WALL MOUNT)
(INLET CONTROL DEVICES SHALL BE IPEX TEMPEST MHF OR APPROVED EQUIVALENT AND SHALL BE SLIDE TYPE)

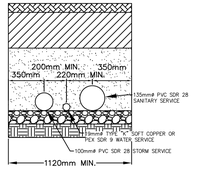
PAVEMENT STRUCTURE TABLE	
THICKNESS (mm)	MATERIAL DESCRIPTION
40	WEAR COURSE – HL-3
50	BINDER COURSE – HL-8
150	BASE – OPSS GRANULAR 'A' CRUSHED STONE
450	SUBBASE – OPSS GRANULAR 'B' TYPE II



1. EACH OF THE 3 SERVICES, WATER, SANITARY AND STORM SHALL BE PLACED IN ONE SLEEVE EACH.
2. SERVICES TO BE SLEEVED FROM 1m OUTSIDE FOUNDATION WALL AND UNDER AND THROUGH THE GARAGE TO THE UNDERSIDE OF THE FOOTING OF THE INSIDE FOUNDATION WALL/FOOTING.
3. THE SLEEVE SHALL BE PVC SDR 18 OR SDR 35.
4. ENSURE SLEEVE PIPE INSIDE DIAMETER IS LARGE ENOUGH TO INSERT THE SERVICE AND WOOD BLOCKING.
5. SEAL THE ENDS OF THE SLEEVE WITH GROUT.

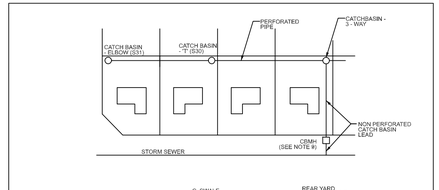
SERVICE SLEEVE UNDER GARAGE DETAIL
(N.T.S.)

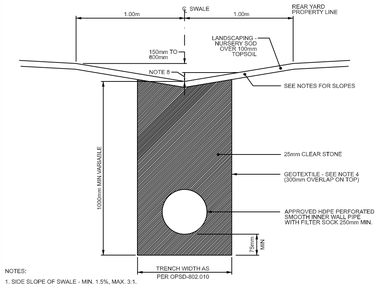
NOTE:
SERVICES ARE TO HAVE BENDS WITHIN THE PRIVATE PROPERTY ONLY AND NOT WITHIN THE R.O.W..



NOTES:
1. NO HORIZONTAL BENDS IN R.O.W. UNLESS OTHERWISE APPROVED BY THE CITY.
2. MAXIMUM OF TWO (2) 22.5° HORIZONTAL BENDS FOR SANITARY AND STORM SERVICES.
3. 1% MINIMUM SANITARY AND STORM SERVICE GRADIENT WITH 2% PREFERED.
4. SEE CITY OF OTTAWA STANDARD DETAIL DRAWING S7 FOR PIPE FOUNDATION, EMBEDMENT AND BACKFILL REQUIREMENTS.
5. MULTIPLE TAPS WITH SADDLES IN PVC WATERMAIN SHALL BE STAGGERED AND MINIMUM 600mm APART.

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

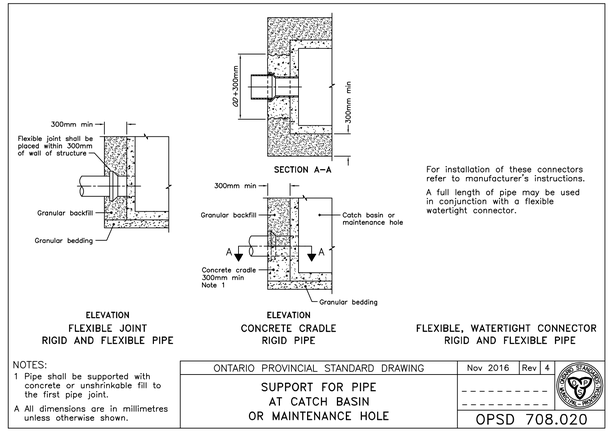




NOTES:
1. SIDE SLOPE OF SWALE - MIN. 1.5%, MAX. 3:1.
2. LONGITUDINAL SLOPE OF SWALE WITHOUT PERFORATED PIPE 1.5% MIN.
3. LONGITUDINAL SLOPE OF SWALE WITH PERFORATED PIPE 0.5% MIN. WITH 1% OR GREATER PREFERRED.
4. UNDER DRIVEWAYS NON PERFORATED PIPE TO BE USED WITH 75mm BEDDING AND BACKFILLED WITH APPROVED NATIVE MATERIAL.
5. CB "T" TO BE SPACED ABOUT EVERY 20 TO 25m AND LOCATED 1m OFF REAR YARD AND SIDE YARD PROPERTY LINES.
6. CB ELBOW TO BE AT UPPER ENDS OF PERFORATED PIPE AND LOCATED 1m OFF REAR YARD AND SIDE YARD PROPERTY LINES.
7. GEOTEXTILE SHALL BE APPROVED NON-WOVEN CLASS 1 OR AS SPECIFIED.
8. MAXIMUM REAR YARD WATER DEPTH IS 300mm.
9. A STANDARD CATCHBASIN NO DEEPER THAN 2.4m OR A CATCHBASIN MAINTENANCE HOLE, STANDARD FRAMES C/W PERFORATED OR SOLID COVER AS SPECIFIED. STANDARD ICD'S AS SPECIFIED

N.T.S.

Ottawa	PERFORATED PIPE INSTALLATION FOR REAR YARD AND LANDSCAPING APPLICATIONS	DATE:	MARCH 2007
		REV. DATE:	MARCH 2019
		DWG. No.:	S29



NOTES:
1 Pipe shall be supported with concrete or unshrinkable fill to the first pipe joint.
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev	4
SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE			
	OPSD 708.020		

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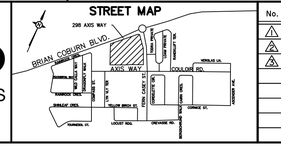

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CITY OF OTTAWA
298 AXIS WAY

MINTO COMMUNITIES INC.

PROJECT No. 240801

PLAN
TYPICAL DETAILS AND TABLES

DRAWING No. 240801-TDI