REMOVALS LEGEND DEMOLITION NOTES PROPERTY LINE DEMOLISH AND REMOVE EXISTING ASPHALT, GRANULAR BASE, GRANULAR SUB-BASE, CONCRETE CURBS, WALKWAYS. REFER TO EXISTING BUILDING ARCHITECTURAL FOR ADDITIONAL DEMOLITION NOTES. DEMOLISH AND REMOVE EXISTING CATCHBASIN/MANHOLES. CONCRETE CURB DEMOLISH AND REMOVE EXISTING STORM AND SANITARY SEWER LINES FROM BUILDING TO PROPERTY LINE AND CAP AT PROPERTY LINE. EXISTING LOCATION OF STORM AND SANITARY SHOWN IS APPROXIMATE AND TO BE FIELD CONFIRMED BEFORE DEMOLITION.

DEMOLISH AND REMOVE EXISTING WATERMAIN FROM BUILDING TO

PROPERTY LINE. WATER SERVICE TO BE 'BLANKED' AT MUNICIPAL

REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL FOR OTHER SITE SERVICES NOT INCLUDED IN CIVIL DEMOLITION DRAWING. . REMOVE EXISTING EASTERN ENTRANCE INCLUDING DEPRESSED CURB, CONCRETE SIDEWALK, AND ASPHALT (BOULEVARD AND

WATERMAIN IN ACCORDANCE WITH CITY OF OTTAWA

REQUIREMENTS. REFER TO C1 DRAWING.

ENTRANCE).

REMOVALS INCLUDE ASPHALT, CONCRETE,

 EXISTING SANITARY SEWER REMOVAL EXISTING STORM SEWER REMOVAL EXISTING WATERMAIN REMOVAL

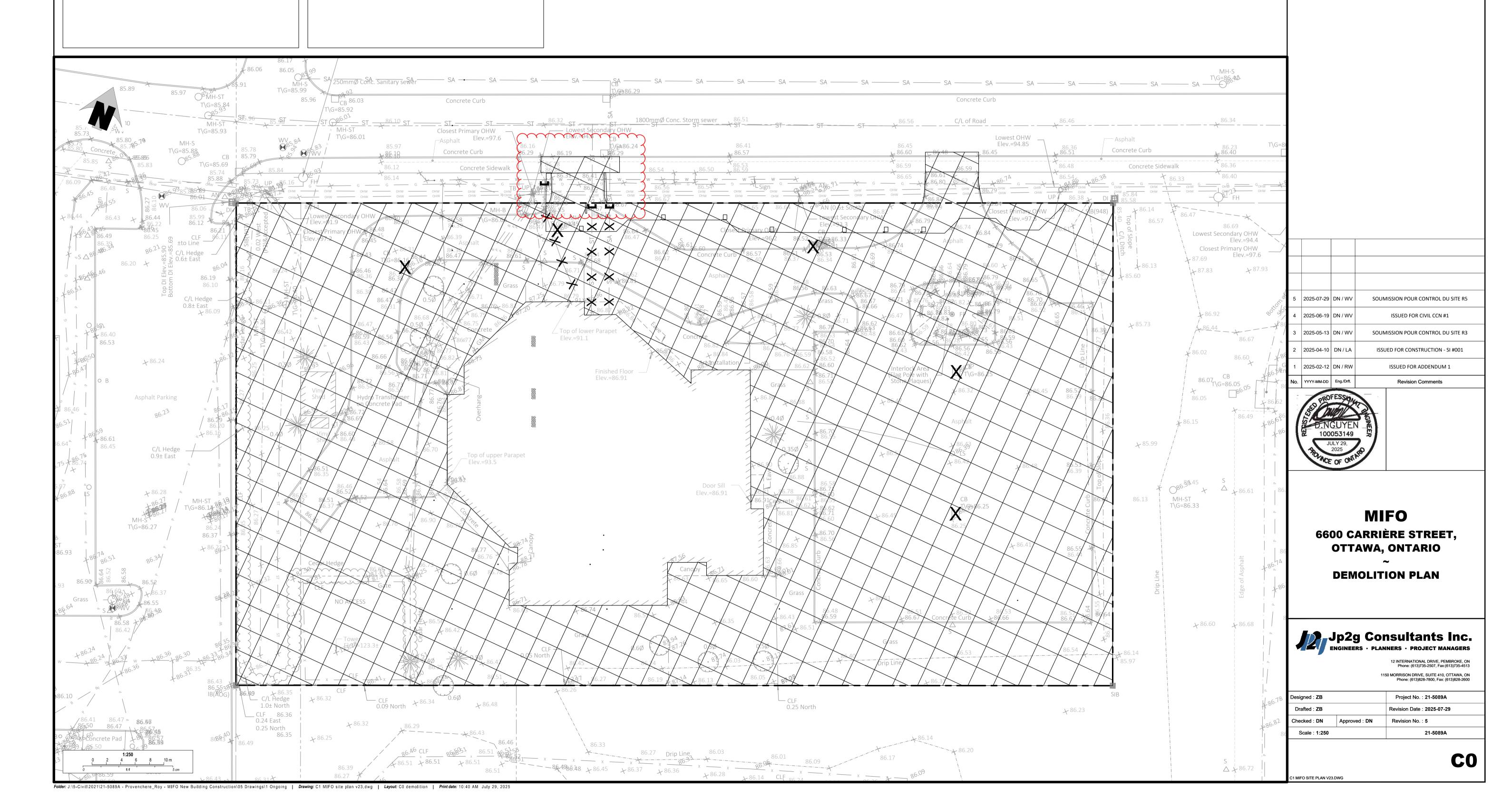
EXISTING CATCHBASIN / MANHOLE REMOVAL

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

DESIGN PROFESSIONAL'S SEAL OR SIGNATURE IS EFFECTIVE ONLY AS TO THAT VERSION OF THIS DOCUMENT AS ORIGINALLY PUBLISHED BY DESIGN PROFESSIONAL.

DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR ANY SUBSEQUENT MODIFICATION,
CORRUPTION, OR UNAUTHORIZED USE OF SUCH DOCUMENT. TO VERIFY THE VALIDITY OR





GENERAL NOTES

- DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS WITH RESPECT TO SITE CONDITIONS AND ALL MATERIALS TO THE PROJECT. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELEVANT TO THE PROJECT.
- ADDITIONAL DRAWINGS MAY BE ISSUED FOR CLARIFICATION TO ASSIST PROPER EXECUTION OF WORK. SUCH DRAWINGS WILL HAVE THE SAME MEANING AND INTENT AS IF THEY WERE INCLUDED WITH THE CONTRACT DOCUMENTS.
- 5. DO NOT SCALE DRAWINGS.
- 6. CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY CODE AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY LOCATES, INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.
- EXISTING INFRASTRUCTURE INFORMATION IS IN REFERENCE TO TOPOGRAPHICAL SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ON JANUARY 6, 2020 AND INFORMATION FROM GEOOTTAWA.

T\G=86.27

DRAWING NOTES

OTTAWA DETAIL S11

- SUPPLY AND INSTALL NEW 3.0m LONG 150mmØ PERFORATED SUB-DRAINS WRAPPED IN GEOTEXTILE SOCK. EXTEND FROM ASSOCIATED STORM SEWER STRUCTURE AT PAVEMENT SUB-GRADE LEVEL AND PROVIDE WATERTIGHT CONNECTION.
- SUBDRAINS SHOULD BE INSTALLED ON THE SIDES OF THE ACCESS ROAD AND PARKING AREA. SEE GEOTECHNICAL NOTES AND REFER TO GEOTECHNICAL REPORT.
- CONNECT WATER, STORM AND SANITARY SERVICES TO BUILDING INTERIOR 1.0m FROM BUILDING FOUNDATION. REFER TO MECHANICAL
- BREAK IN AND CONNECT TO EXISTING SANITARY AND PROVIDE WATERTIGHT CONNECTION. APPROXIMATE INVERT ELEVATION OF EXISTING SEWER: 83.43m; TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION, CONNECTION SHALL BE MADE WITH CORE DRILLING. CONNECTION TO BE CONSTRUCTED AS PER CITY OF
- BREAK IN AND CONNECT TO EXISTING STORM SEWER AND PROVIDE WATERTIGHT CONNECTION. APPROXIMATE INVERT ELEVATION OF EXISTING SEWER: 81.38m; TO BE CONFIRMED BY CONTRACTOR. CONNECTION SHALL BE MADE WITH CORE DRILLING.CONNECTION TO BE CONSTRUCTED AS PER CITY OF OTTAWA DETAIL S11
- EXISTING STORM, SANITARY AND WATER SERVICES CONNECTING TO THE EXISTING BUILDING TO BE CAPPED AT MAIN LINE, TO COORDINATE WITH THE CITY OF OTTAWA AND DRINKING WATER SERVICES.
- SUPPLY AND INSTALL NEW OIL GRIT SEPARATOR UNIT (OGS01).
 MINIMUM 80% TSS REMOVAL. STORMCEPTOR EF04 OR APPROVED EQUAL. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL

T/G: 86.45 - INV.: 83.75 E INV.: 82.84 N 03

DRAWING NOTES CONT.D

- ONNECT NEW 150mmØ x 75.0m LENGTH WATER SERVICE TO EXISTING WATERMAIN AND PROVIDE WATERTIGHT CONNECTION. APPROX. TOP OF WATERMAIN ELEVATION: 83.74m: TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED. CONNECTION TO EXISTING WATERMAIN IS TO BE VIA THE USE OF AN APPROVED PRE-MANUFACTURED TEE.
- **08** INSTALL NEW DROP STRUCTURE PER OPSD 1003.020.
- SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN CB-1 OUTLET. MAXIMUM DISCHARGE 20 L/s AT 1.67m HEAD AND ORIFICE DIAMETER AT 85mm. TOP OF CB-1 COVER TO BE 50mm ABOVE FINISHED GRADE.
- 10 UNDERGROUND GEOTHERMAL SYSTEM, REFER TO MECHANICAL. CONNECT TRENCH DRAIN TO STORM SEWER.

18.3 I/s AT 1.08m HEAD AND ORIFICE DIAMETER AT 91mm.

- INSTALL HEAVY DUTY PRECAST TRENCH DRAIN COMPLETE WITH COVER, 200mm WIDE AND 2.5m LONG WITH HOT DIPPED GALVANIZED
- SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR SUPPLY AND INSTALL NEW INCL. SOUTH OF STANDARD AT STORM MANHOLE, STMH-01 INLET. BOTTOM OF ORIFICE TO BE
- INSTALL STORM AND SANITARY SEWER BACKFLOW PREVENTER INSIDE BUILDING PER APPROVED CITY OF OTTAWA PRODUCTS.

FLUSH WITH OUTLET OF 1050mm PIPE INVERT. MAXIMUM DISCHARGE

- 15 LIGHT STANDARD DISTRIBUTION, REFER TO ELECTRICAL (TYPICAL). PERFORATED DRAIN TO BE CONNECTED TO STORM NETWORK
- INSTALL WATERMAIN CROSSING OVER PROPOSED STORM SEWER AS INSTALL WATERMAIN CRUSSING OVER FROM SOLD STORMS BETWEEN PER CITY OF OTTAWA DETAIL W25.2. ENSURE 0.5m SPACING BETWEEN STORM SEWER AND WATERMAIN. PROVIDE AND INSTALL HI-40 INSULATION AS PER CITY OF OTTAWA DETAIL W22.

Storm Sewer Structure Table Top of Frame | Pipe Invert Elevation Manhole No. Structure OPSD IN 84.05 CBMH-03 86.55 1200mm Conc.. Ø OUT 83.99 IN 83.87 CBMH-02 1200mm Conc.. Ø OUT 83.86

STMH-01	1,800mmØ Manhole	86.45	IN 82.60 IN 84.26 IN 83.30 OUT 82.57
OGS01	1200mm Conc Ø	86.39	IN 82.50 OUT 82.44
√ CB-01	1200mm ConcØ	85,97	QUT 84.52
TD1	PREFAB	85.58	OUT 84 51

Sanitary Sewer Structure Table

Manhole No.	Structure OPSD	Top of Frame	Pipe Invert Elevation
SAMH - 01	1200mmØ Conc. Ø	86.48	IN 84.10 OUT 84.00

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

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6.06 86.05 99	1 04.00	EXISTING GRADE	
SA 250mmø cohc. Sanitary se Wer SA	+ 54.76	NEW GRADE	
85.89 T\G=85.99 T\G=85.99	4 2.1%	NEW SLOPE	
T\G=85.84 S5.96 S6.03 Concrete Curb			
1800mm Conc. Storm sewer 86.51	V6 //6	2D 34	
85.73 MH-ST T\G=85.93 MH-ST When ST	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
85.80 19 NAU S WV 94 / T\G=86.01 B =97.6 \ WV 94 / T\G=86.01		Asphalt	
85.78	86.36 86.51	Concrete Curb 86.23 1\G=80 86.40	14 2025-07-29 DN / WV S0
55.85 S 85.83 T\G=85.69 S 66.59 S 66.59 S 66.59	\ + 86.48	Concrete Sidewalk 86.36	13 2025-06-19 DN / WV
85.74 85.84 85.73 UD 86.14 86.65 86.62 1 86.61 86.62 1	86.54	38	12 2025-06-10 DN / WV SG
86.56 S 86.54 S S S S S S S S S S S S S S S S S S S	N S S S S S S S S S S S S S S S S S S S	OHW GOHW GOHW GOHW	
86.01 A	UP (DI # 85.58	11 2025-05-16 DN / WV S0
86.06 Bi A Secondary OHW A Sec		48) (86.14 + 86.47 +	10 2025-04-10 DN / LA
86.22 86.12 86.12 86.21 T/G: 86.30 T/G: 86.3		86.69	9 2025-03-25 DN / WV S0
86.25 8 CLF 86.17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Lowest Secondary OHW Elev.=94.4	
3.5m-300mmØ STM. @ 2.00%— 3.5m-300mmØ STM. @ 2.00%— 3.5m-300mmØ STM. @ 2.00%—		Closest Primary OHW	8 2025-01-13 DN / ZB
86.20 \times 86.37 86.34 86.37 86.37 86.34 86.37 86		87.69 287.83 287.93	7 2024-12-20 DN / ZB
86.62 Asphalt 86.62 Asphalt 86.62 Asphalt		100 × 50 (1/9)	6 2022-12-09 DN / ZB
1a INV: 83.30 E INV: 84.26 SW	, j		0 2022-12-03 DIV/2D
C/L Hedge O.8± East O.8± E	86.46		5 2022-10-28 DN / DS
T/G: 86.40	52 <u>86.35</u>	₹ 86.92 ¢5 ₹ \$6	4 2022-09-30 DN / DS
INV.: 84.10 E INV.: 84.00 W Top of lower Parapet	98	86.44	3 2022-09-02 DN / DS
Concrete 86.40 86.53 78 86.59		86.67	3 2022-09-02 DN / DS
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		86.02	2 2022-06-17 DN / DS
Art Installation Art In		86.60 / X86	1 2022-03-04 DN / RW
Finished Floor Elev.=86.91 Finished Floor		1 1 5 2 3 1 86.5 En	
Grass × 86.42 × 86.32	.45 86.52	86.07 _T /G=86.05	No. YYYY-MM-DD Eng./Drft.
Asphalt Parking / 3 86.32 × 86.47 × 86.88 × 86.88 × 86.88	86.39	86.05	PROFESSION

MIFO 6600 CARRIÈRE STREET, **OTTAWA, ONTARIO**



1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON Phone: (613)828-7800, Fax: (613)828-2600

Drafted: WV Revision No.: 14 Checked: DN Scale : 1:250

0.24 East

0.25 North

CBMH03

INV.: 84.05 E

INV.: 83.99 W

T/G: 86.55

Elev.=86.91

PROPOSED FFE: 87.00

CBMH02

INV.: 83.87 E

T/G: 86.48

¥ 86.48

TD01

INV.: 84.51 W

IN 83.75 CBMH-01 1,800mmØ Manhole | 86.45 OUT 82.84

PREFAB 85.58 001 84.51

Samilary Sewer Structure Table						
Manhole No.	Structure OPSD	Top of Frame	Pipe Invert Elevation			
CAMIL 04	4000	06.40	IN 84.10			

PROPERTY LINE /////// EXISTING BUILDING EXISTING SANITARY SEWER ——— ST ——— EXISTING STORM SEWER EXISTING WATERMAIN ——— SA ——— NEW SANITARY SEWER —— ST —— NEW STORM SEWER — W — NEW WATERMAIN NEW LIGHT DUTY ASPHALT NEW HEAVY DUTY ASPHALT NEW CONCRETE SIDEWALK **NEW GRASS y y y** ⊞ EX-CB EXISTING CATCHBASIN ⊕ EX−CBMH **EXISTING CATCHBASIN MANHOLE** ⊞ СВ-# **NEW CATCHBASIN** ⊞ CBMH-# NEW CATCHBASIN MANHOLE

MH-ST

LEGEND

◯SAMH-# **NEW SANITARY MANHOLE О STMH**-# **NEW STORM MANHOLE ₩**V **NEW WATER VALVE**

+54.83 EXISTING GRADE

> SOUMISSION POUR CONTROL DU SITE R5 ISSUED FOR CIVIL CCN#1 SOUMISSION POUR CONTROL DU SITE R4 SOUMISSION POUR CONTROL DU SITE R3 ISSUED FOR CONSTRUCTION - SI #001

SOUMISSION POUR CONTROL DU SITE R2 ISSUED FOR TENDER 100% SOUMISSION R2

SOUMISSION POUR CONTROL DU SITE 100% SOUMISSION R1

100% SOUMISSION 99% SOUMISSION

Revision Comments

60% SOUMISSION PRÉLIMINAIRE 30%

100053149

SITE SERVICING PLAN

12 INTERNATIONAL DRIVE, PEMBROKE, ON Phone: (613)735-2507, Fax:(613)735-4513

Designed : WV Project No. : 21-5089A

THE POSITION OF POLE LINES. CONDUITS. WATERMAINS. SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT **EROSION AND SEDIMENT CONTROL NOTES GENERAL NOTES DRAWING NOTES GEOTECHNICAL NOTES** LEGEND NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED, BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, — PROPERTY LINE 01 INSTALL SILT FENCE IN ACCORDANCE WITH OPSD 219.130 AND DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. PROVIDE SNOW FENCE AROUND EXISTING TREES (REFER TO RECENT ONTARIO BUILDING CODE. ONTARIO SHALL INSPECT ALL SUBGRADE SURFACES FOR FOOTING PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA ////////// EXISTING BUILDING LANDSCAPE PLAN). AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION. DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE, DURING DESIGN PROFESSIONAL'S SEAL OR SIGNATURE IS EFFECTIVE ONLY AS TO THAT VERSION OF THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING THIS DOCUMENT AS ORIGINALLY PUBLISHED BY DESIGN PROFESSIONAL CONSTRUCTION ACTIVITIES; THIS INCLUDES LIMITING THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR ANY SUBSEQUENT MODIFICATION, CORRUPTION, OR UNAUTHORIZED USE OF SUCH DOCUMENT. TO VERIFY THE VALIDITY OR ALL DIMENSIONS WITH RESPECT TO SITE CONDITIONS AND ALL EXISTING SANITARY SEWER MATCH EXISTING GRADES AT PROPERTY LINE AND LIMITS OF GEOTECHNICAL INVESTIGATION PROPOSED BUILDING EXPANSION, AMOUNT OF EXPOSED SOIL, INSTALLING SILT FENCES AND MATERIALS TO THE PROJECT. ANY DISCREPANCY SHALL BE APPLICABILITY OF THE SEAL OR SIGNATURE, CONTACT DESIGN PROFESSIONAL 6600 CARRIÈRE STREET PREPARED BY PATERSON GROUP INC., OTHER EFFECTIVE SEDIMENT TRAPS, AND INSTALLING AND EXISTING STORM SEWER REPORTED TO THE ENGINEER. REPORT: PG3694-1 REV.2, DATED APRIL 29, 2025. MAINTAINING MUD MATS FOR OUTGOING CONSTRUCTION **03** PROTECT EXISTING ASPHALT AND CONCRETE WALKWAYS THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL TRAFFIC DURING CONSTRUCTION ACTIVITIES. DURING CONSTRUCTION. EXISTING WATERMAIN MATERIAL RELEVANT TO THE PROJECT. PREVENT SOIL LOSS DURING CONSTRUCTION (BY STORM WATER 04 CONTRACTOR TO PROTECT EXISTING STRUCTURES DURING NEW SANITARY SEWER ADDITIONAL DRAWINGS MAY BE ISSUED FOR CLARIFICATION TO RUNOFF OR WIND EROSION). ASSIST PROPER EXECUTION OF WORK. SUCH DRAWINGS WILL ——— ST ——— NEW STORM SEWER DRAWING NOTES CONT. PREVENT SEDIMENTATION OF STORM SEWERS AND RECEIVING TOP OF CB1 TO BE 50mm ABOVE FINISHED GRADE. HAVE THE SAME MEANING AND INTENT AS IF THEY WERE INCLUDED STREAMS. WITH THE CONTRACT DOCUMENTS. — W — NEW WATERMAIN 06 NEW BIOSWALE DETAIL PER LANDSCAPE. 4. PREVENT AIR POLLUTION FROM DUST AND PARTICULATE MATTER. 12 NEW LIGHT DUTY ASPHALT AS PER DETAIL 1 ON SHEET C3 5. DO NOT SCALE DRAWINGS. NEW LIGHT DUTY ASPHALT (DET1/C3) REMOVE PORTION OF EXISTING SIDEWALK. CONSTRUCT 5. INSTALL FILTER BAG INSERT IN ALL STORM MANHOLES AND CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN DEPRESSED ENTRANCE AS PER CITY OF OTTAWA STANDARD CATCH BASINS IMPACTED DURING CONSTRUCTION, INCLUDING 13 NEW HEAVY DUTY ASPHALT AS PER DETAIL 2 ON SHEET C3 NEW HEAVY DUTY ASPHALT (DET2/C3) CONSTRUCTION SAFETY CODE AND ALL REGULATIONS SET BY DETAIL SC7.1 AND SC2. MATCH EXISTING SIDEWALK AT LIMITS OF CATCH BASINS IN THE RIGHT OF WAY. AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR **NEW CONCRETE SIDEWALK** DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL REMOVE PORTION OF EXISTING SIDEWALK, CURB, AND ASPHALT 6. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED REINSTATE TRENCH ROAD CUT PER CITY OF OTTAWA STANDARD BOULEVARD. REPLACE WITH NEW FULL HEIGHT CONCRETE IN THE FIELD AT THE DISCRETION OF THE TOWNSHIP OF NORTH DETAIL R10. REINSTATEMENT TO BE TO THE SATISFACTION OF NEW GRASS v v v CURB. ASPHALT GUTTER, AND CONCRETE SIDEWALK AS PER DUNDAS INSPECTOR OR CONSERVATION AUTHORITY. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED THE CITY OF OTTAWA. KEY INTO EXISTING ASPHALT PER DETAIL CITY OF OTTAWA DETAILS SC1, SC4, AND SC20. ⊞ EX-CB EXISTING CATCHBASIN UTILITY LOCATES, INSPECTIONS, PERMITS, AND APPROVALS, STORM WATER PUMPED INTO CITY SERVICE SHALL FLOW INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING THROUGH A FILTER SOCK. ⊕ EX−CBMH **EXISTING CATCHBASIN MANHOLE** UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO REINSTATE EXISTING CONCRETE BARRIER CURB AS PER CITY OF AVAILABLE INFORMATION. OTTAWA STANDARD DETAIL SC1.1, MATCH EXISTING ELEVATION **⊞** CB-# **NEW CATCHBASIN** IMPLEMENT APPROPRIATE EROSION AND SEDIMENTATION EXISTING INFRASTRUCTURE INFORMATION IS IN REFERENCE TO CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED ⊞ CBMH-# NEW CATCHBASIN MANHOLE TOPOGRAPHICAL SURVEY COMPLETED BY ANNIS, O'SULLIVAN, BY ANY APPLICABLE REGULATORY AGENCY. REINSTATE DISTURBED GRASSED AREA. MATCH SURROUNDING GRADE. VOLLEBEKK LTD. ON JANUARY 6, 2020 AND INFORMATION FROM CONTRACTOR TO PROVIDE SNOW FENCE PROTECTION FOR ○SAMH-# **NEW SANITARY MANHOLE** GEOOTTAWA. EXISTING TREES AS PER THE LANDSCAPE DRAWINGS. OstmH-# NEW STORM MANHOLE 11 NEW CURB CUT ₩V **NEW WATER VALVE** +54.83 **EXISTING GRADE** + 54.76 **NEW GRADE** 2.1% **NEW SLOPE** Concrete Curb **OVERLAND FLOW ROUTE** C/L of Road T\G=85.93 Elev.=94.85 2025-07-29 DN / WV SOUMISSION POUR CONTROL DU SITE R5 T\G=85.88 ISSUED FOR CIVIL CCN#1 3 2025-06-19 DN / WV Concrete Sidewalk SOUMISSION POUR CONTROL DU SITE R4 2025-06-10 DN / WV 2025-05-16 DN / WV SOUMISSION POUR CONTROL DU SITE R3 2025-04-10 DN / LA ISSUED FOR CONSTRUCTION - SI #001 GGS01 T/G: 86.30 2025-03-25 DN / WV SOUMISSION POUR CONTROL DU SITE R2 Lowest Secondary OHW Elev.=94.4 2025-01-13 DN / ZB ISSUED FOR TENDER Closest Primary OHW STMH01 Elev.=97.6 87.69 2024-12-20 DN / ZB 100% SOUMISSION R2 ¥ 87.93 87.83 2022-12-09 DN / ZB SOUMISSION POUR CONTROL DU SITE Limit of 100 year ponding 2022-10-28 DN / DS 100% SOUMISSION R1 100 year Ponding Elevation 86.38 SAMH01 100 year Ponding depth 0.32m 2022-09-30 DN / DS 100% SOUMISSION 100 year Ponding volume 60m³ 2022-09-02 DN / DS 99% SOUMISSION 2022-06-17 DN / DS 60% SOUMISSION Art Installation 2022-03-04 DN / RW PRÉLIMINAIRE 30% Limit of 100+20% year ponding YYYY-MM-DD Eng./Drft **Revision Comments** 100 year Allowable release rate 20.0/s Grass 100 year Ponding Elevation 86.40 100 year Ponding depth 0.34m 100 year Ponding volume 79m³ PROPOSED FFE: 87.00 100053149 Limit of 5 year ponding O. + 86.93 5 year Ponding Elevation 86.22 5 year Ponding depth 0.16m 5 year Ponding volume 21m³ Limit of 100+20% year ponding 100 year Ponding Elevation 86.57 100 year Ponding depth 0.02m 100 year Ponding volume 0.01m³ **MIFO** MH-ST T\G=86.33 6600 CARRIÈRE STREET, T\G=86.27 **OTTAWA, ONTARIO** 86.82 86.67 SITE GRADING AND DRAINAGE, **EROSION AND SEDIMENT CONTROL PLAN** TD01 T/G: 85.58 Γ/G: 86.48 **CBMH03** T/G: 86.55 Jp2g Consultants Inc. ENGINEERS · PLANNERS · PROJECT MANAGERS 12 INTERNATIONAL DRIVE, PEMBROKE, ON Phone: (613)735-2507, Fax:(613)735-4513 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON Phone: (613)828-7800, Fax: (613)828-2600 Designed : **WV** Project No. : 21-5089A Limit of 100+20% year ponding Drafted: WV Revision Date: 2025-07-25 100 year Ponding Elevation 86.57 100 year Ponding depth 0.12m Revision No.: 14 Checked: DN Limit of 100+20% year ponding 100 year Ponding volume 4.45m³ Scale : 1:250 21-5089A 100 year Ponding Elevation 86.57 100 year Ponding depth 0.09m 100 year Ponding volume 2.52m³ Folder: J:\5-Civil\2021\21-5089A - Provenchere_Roy - MIFO New Building Construction\05 Drawings\1 Ongoing | Drawing: C1 MIFO site plan v23.dwg | Layout: C2 grading and drainage | Print date: 10:40 AM July 29, 2025

General Notes

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS
- ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE: CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT
- THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION. INCLUDING BUT NOT LIMITED TO POWER. COMMUNICATION AND GAS LINES.
- ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT.
- REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED ON JULY 31, 2018. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- 10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
- ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
- 12. ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
- 13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
- 14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE **EXECUTION OF ALL WORKS**
- 15. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER, EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- 16. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
- 17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
- 18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONATIONS FROM THOSE INCLUDED IN REPORT.
- 19. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200mm DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.

Notes: Sanitary Sewer and Manholes

- ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
- SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
- MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
- ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22. OR APPROVED BY THE ENGINEER.

Parking Lot and Work in Public Rights of Way

** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES.**

PRIOR TO START OF CONSTRUCTION:

- 1.1. INSTALL SILT FENCE IN LOCATION SHOWN.
- 1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).
- 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

DURING CONSTRUCTION:

- 2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
- 2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
- 2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CB'S AS REQUIRED.
- 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
- INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
- DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
- DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
- 2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
- 2.11. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED
- 2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- 2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
- 2.14. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED
- 2.15. ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- 2.16. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES. TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

Notes: Watermain

STANDARDS.

- ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS
- ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
- CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 & W25.4.
- CITY OF OTTAWA STANDARD W40 & W42. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER

CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER

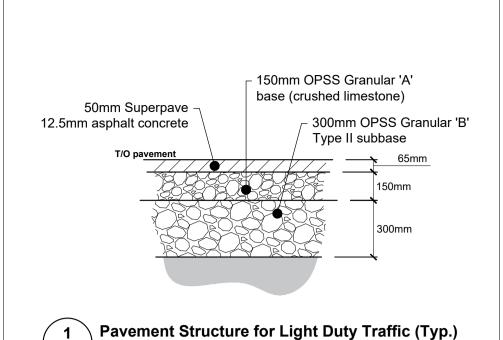
- CITY OF OTTAWA STANDARD FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY
- IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

Parking Lot and Work in Public Rights of Way

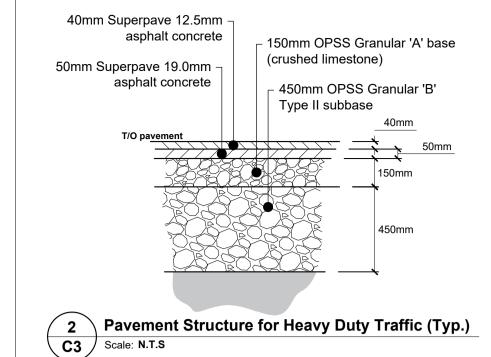
- CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
- CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
- FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT
- GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT
- ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
- 10. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY, LIGHT DUTY AND BASKETBALL COURT AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

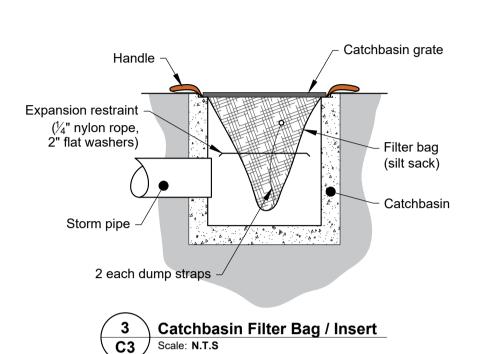
Notes: Storm Sewer and Manholes

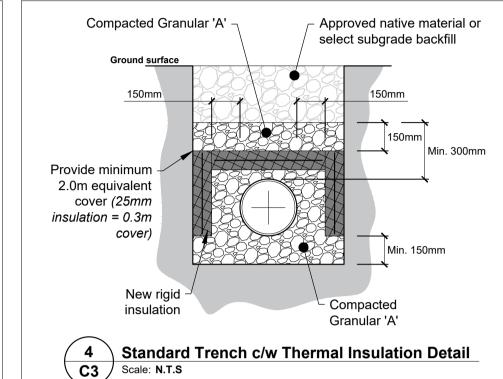
- ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
- STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35. WITH RUBBER GASKET PER CSA A-257.3.
- STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 100.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- 5. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING C1.
- 6. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31.
- ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMH'S AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
- INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

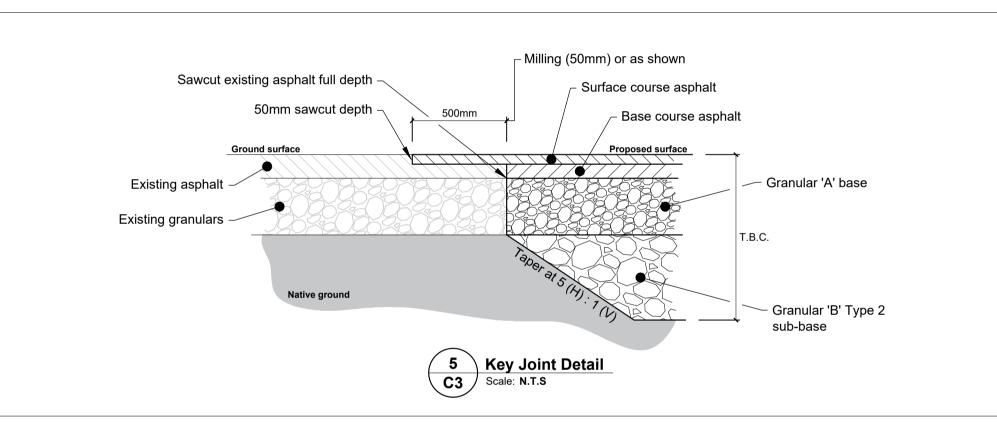


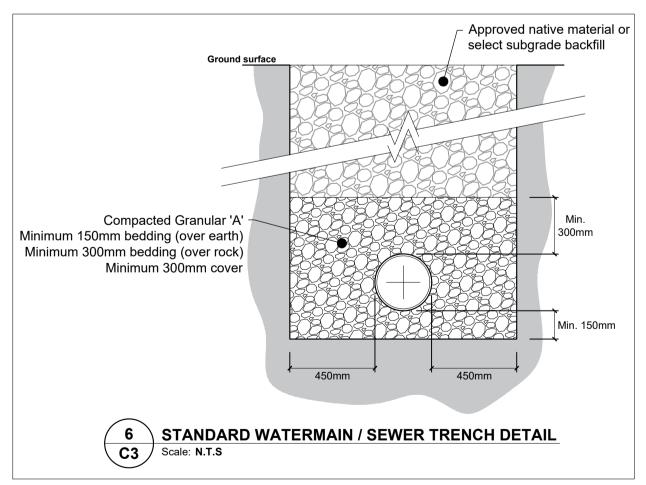
C3 / Scale: N.T.S











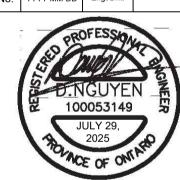
WATER SERVICE TABLE					
ID	DESCRIPTION FINISHED GRADE (m) T/O WATER (m)				
1	VALVE	86.20	83.75		
2	STORM CROSSING	86.25	83.86		
3	45° HORIZONTAL BEND	86.44	84.04		
4	STORM CROSSING	86.51	84.48		
(5)	45° HORIZONTAL BEND	86.64	84.24		
6	45° HORIZONTAL BEND	86.68	84.28		
7	45° HORIZONTAL BEND	86.72	84.32		
8	BUILDING CONNECTION	87.00	84.60		
NOTE: PROVIDE MINIMUM 2.4m COVER OVER T/O WATERMAIN TO FINISHED GRADE, OTHERWISE PROVIDE THERMAL INSULATION HL40 AS PER CITY OF OTTAWA STANDARD DETAIL W22					

THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING. AND. WHERE SHOWN. TH ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED, BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. DESIGN PROFESSIONAL'S SEAL OR SIGNATURE IS EFFECTIVE ONLY AS TO THAT VERSION OF THIS DOCUMENT AS ORIGINALLY PUBLISHED BY DESIGN PROFESSIONA

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14	2025-07-29	DN / WV	SOUMISSION POUR CONTROL DU SITE R5	
13	2025-06-19	DN / WV	ISSUED FOR CIVIL CCN#1	
12	2025-06-10	DN / WV	SOUMISSION POUR CONTROL DU SITE R4	
11	2025-05-16	DN / WV	SOUMISSION POUR CONTROL DU SITE R3	
10	2025-04-10	DN / LA	ISSUED FOR CONSTRUCTION - SI #001	
9	2025-03-25	DN / WV	SOUMISSION POUR CONTROL DU SITE R2	
8	2025-01-13	DN / ZB	ISSUED FOR TENDER	
7	2024-12-20	DN / ZB	100% SOUMISSION R2	
6	2022-12-09	DN / ZB	SOUMISSION POUR CONTROL DU SITE	
5	2022-10-28	DN / DS	100% SOUMISSION R1	
4	2022-09-30	DN / DS	100% SOUMISSION	
3	2022-09-02	DN / DS	99% SOUMISSION	
2	2022-06-17	DN / DS	60% SOUMISSION	
1	2022-03-04	DN / RW	PRÉLIMINAIRE 30%	
No.	YYYY-MM-DD	Eng./Drft.	Revision Comments	



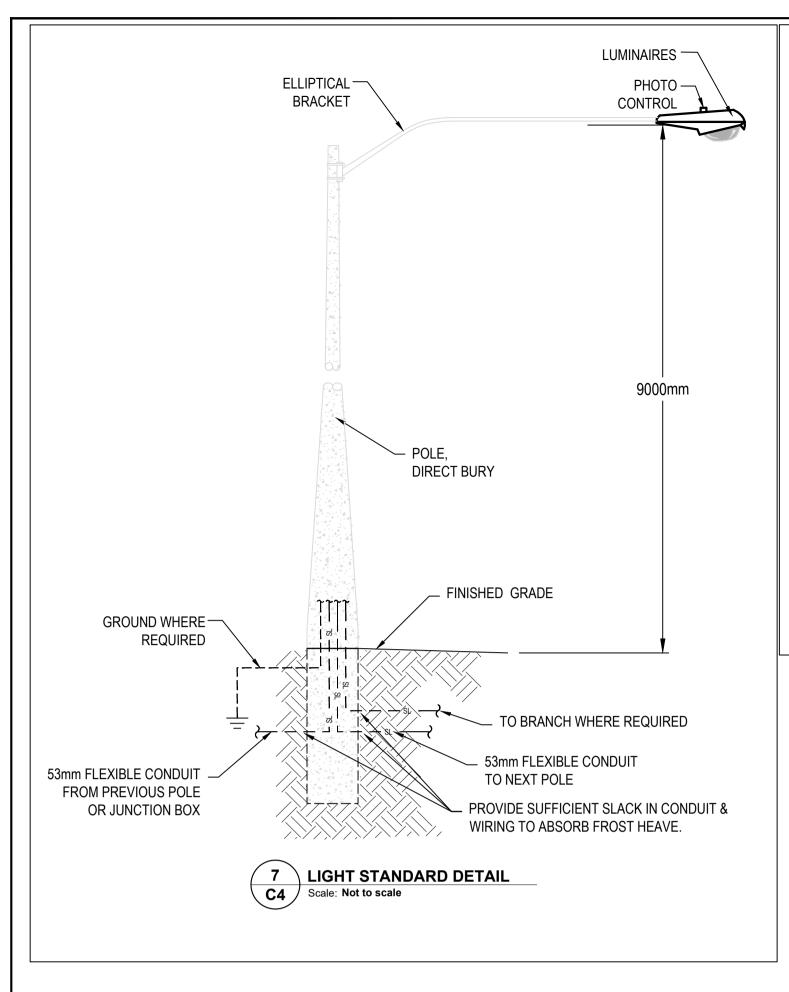
MIFO 6600 CARRIÈRE STREET, OTTAWA, ONTARIO

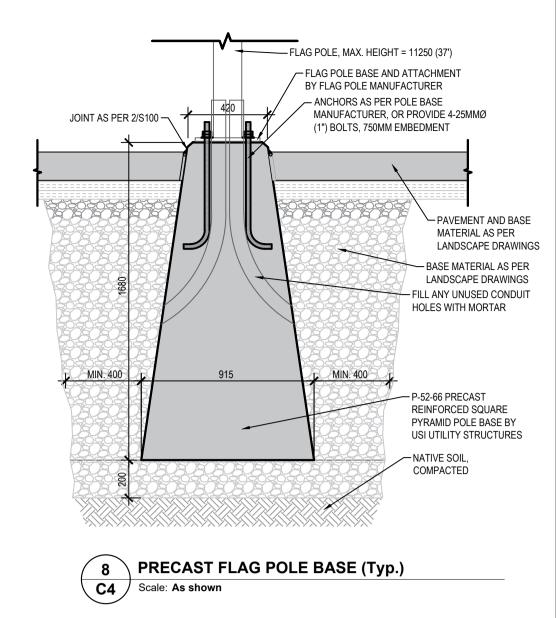
GENERAL NOTES AND DETAILS I

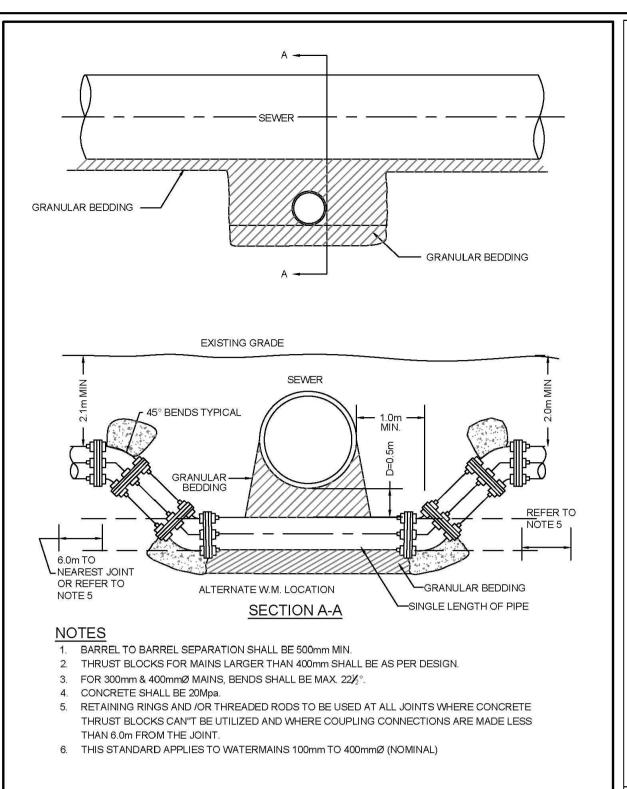


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Project No. : 21-5089A Designed: WV Drafted: WV Revision Date : 2025-07-25 Checked: **DN** Approved : **DN** Revision No.: 14 21-5089A Scale: 1:250

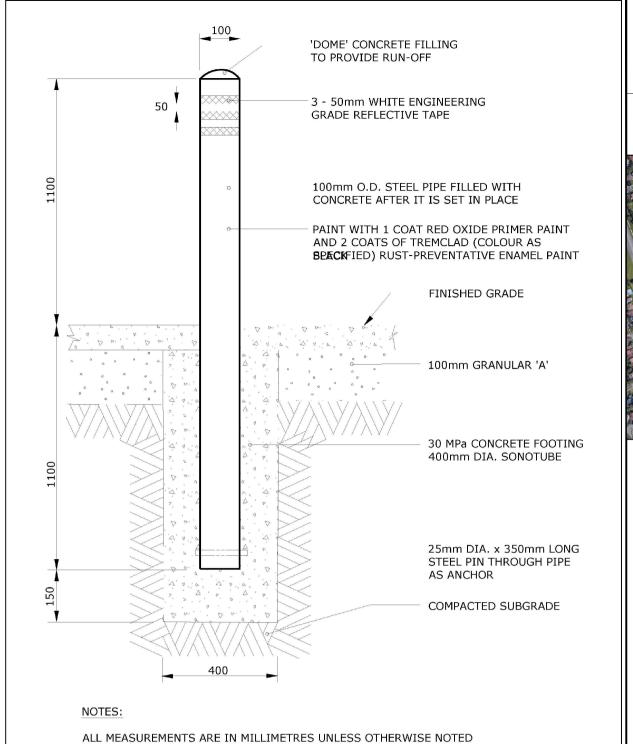






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100mm DIAMETER STEEL BOLLARD

ttawa Installation for parking Lots/Parks

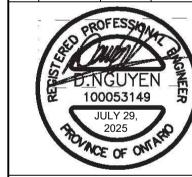
DATE: MAY 2001

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No.	YYYY-MM-DD	Eng./Drft.	Revision Comments	
	13 12 11 10 9 8 7 6 5 4 3 2	13 2025-06-19 12 2025-06-10 11 2025-05-16 10 2025-04-10 9 2025-03-25 8 2025-01-13 7 2024-12-20 6 2022-12-09 5 2022-10-28 4 2022-09-30 3 2022-09-02 2 2022-06-17 1 2022-03-04	13 2025-06-19 DN / WV 12 2025-06-10 DN / WV 11 2025-05-16 DN / WV 10 2025-04-10 DN / LA 9 2025-03-25 DN / WV 8 2025-01-13 DN / ZB 7 2024-12-20 DN / ZB 6 2022-12-09 DN / ZB 5 2022-10-28 DN / DS 4 2022-09-30 DN / DS 3 2022-09-02 DN / DS 2 2022-06-17 DN / DS 1 2022-03-04 DN / RW	



MIFO 6600 CARRIÈRE STREET, OTTAWA, ONTARIO

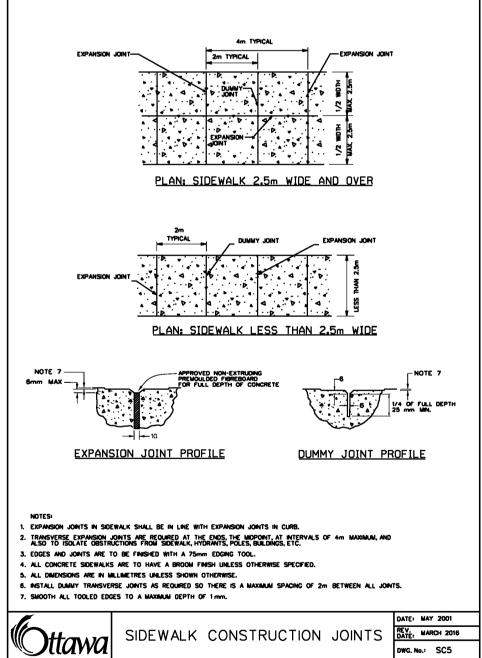
> **GENERAL NOTES AND DETAILS II**

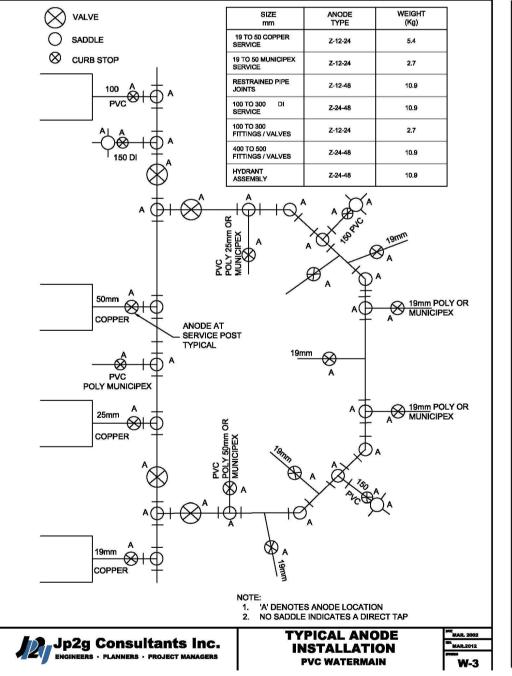


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Designed : WV		Project No. : 21-5089A	
Drafted : WV		Revision Date : 2025-07-25	
Checked : DN	Approved : DN	Revision No. : 14	
Scale : 1:250		21-5089A	

TYPICAL SIDEWALK SECTION 2% SLOPE (SEE NOTE 2) SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE. 2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%. 3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%.. 1. EXPANSION AND DUMMY JOINTS AS PER SC5. MONOLITHIC CONCRETE CURB AND SIDEWALK



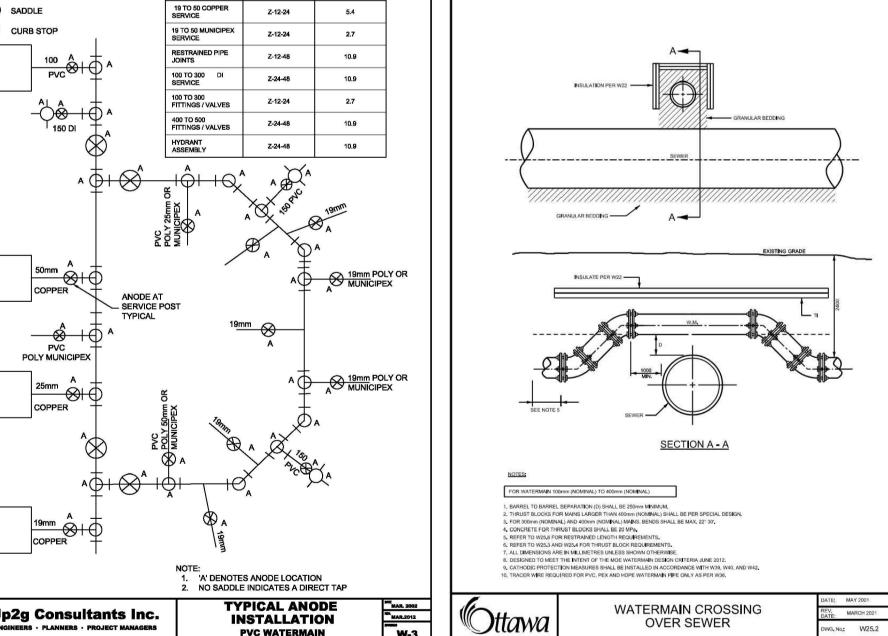


WATERMAIN CROSSING

BELOW A SEWER

MAR. 2014

W-2A



PENTE MIN. 0.5% SUIVANTLE PLAN DE NIVELLEMENT / PLAN DE NIVELEMENT / MIN 0.5% SLOPE PER GRADING PLAN STRUCTURE DE LA CHAUSSÉE SELON LE DÉTAIL ROAD STRUCTURE PER DETAIL ENVELOPPER LA TRANCHÉE AVEC UN GÉOTEXTILE / WRAP TRENCH IN FILTER FABRIC 19mm CLEAR GRANULAR	PENTES DE TALUS ENSEMENCÉS / PLAN DE NIVELLEMENT / MIN. 0.5% SUIVANTLE PLAN DE SIDE SLOPE PLAN DE NIVELLEMENT / MIN. 0.5% SLOPE PER GRADING PLAN STRUCTURE DE LA CHAUSSÉE SELON LE DÉTAIL ROAD STRUCTURE PER DETAIL TERRE VÉGÉTALE D'UNE ÉPAISSEUR MINIMUM DE 300mm POU TERRASSEMENT DE LA RIGOLE BIOLOGIQUE PAR UNE COUVERTURE VÉGÉTALE, HERBES ET ARBUSTES. VOIR LA LIS DES ESPÉCES APPROVÉES. / 300mm DEPTH MIN. LOAMY SAND TOPSOIL FOR BIO-SWALE GROUND COVER/GRASSES/ SHRUBS. SEE APPROVED SPECIE LIST. DRAIN PERFORÉ 150MM DE LA RIGOLE BIOLOGIQUE. LA PENTE DU DRAIN VARIE, UNE PENTE MINIMUM DE 0.3% DOIT ÉTRE MAINTENU JUSQU'AU REJET À L'ÉGOUT PLUVIALE OU À TOUTE AUTRE DÉVERSOIR ALTERNATIF. / 150mm/Ø PERFORATED BIOSWALE SUBDRAIN SLOPE VARIES. TO HAVE A MINIMUM SLOPE OF 0.3% TO STORM SEWER OR ALTERNATE OUTLET CONNECTION OR DISCHARGE. (REFER TO GRADING PLAN)	STE 2. TOUTES LES DIMENSIONS SONT EN MÊTRES SAUF INDICATION CONTRAIRE ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
	AIL DE RIGOLE BIOLOGIQUE BIO-SWALE DETAIL	

CONCRETE SUPPORT (SEE NOTE 2)

CONCRETE BARRIER CURB

. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.

IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.

DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13

DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJAC

CONCRETE BARRIER CURB

FOR GRANULAR BASE PAVEMENT

(MODIFIED OPSD-600.110)

A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

FOR DEPRESSED CURB AT ENTRANCES USE 250.

CROSSING TABLE							
LOCATION	ATION OVER / UNDER T/G INVERT OBVERT						
\triangle	NEW STORM - NEW WATERMAIN	86.26	84.36 (STORM)	83.86 (WM)	0.50		
<u> </u>	NEW SANITARY - NEW STORM SEWER	86.38	83.96 (SAN)	83.54 (STORM)	0.42		
<u> </u>	NEW WATERMAIN - NEW STORM SEWER	86.50	84.33 (WM)	83.83 (STORM)	0.50		

Folder: J:\5-Civil\2021\21-5089A - Provenchere_Roy - MIFO New Building Construction\05 Drawings\1 Ongoing | Drawing: C1 MIFO site plan v23.dwg | Layout: C4 Details II | Print date: 10:40 AM July 29, 2025