

LEGEND

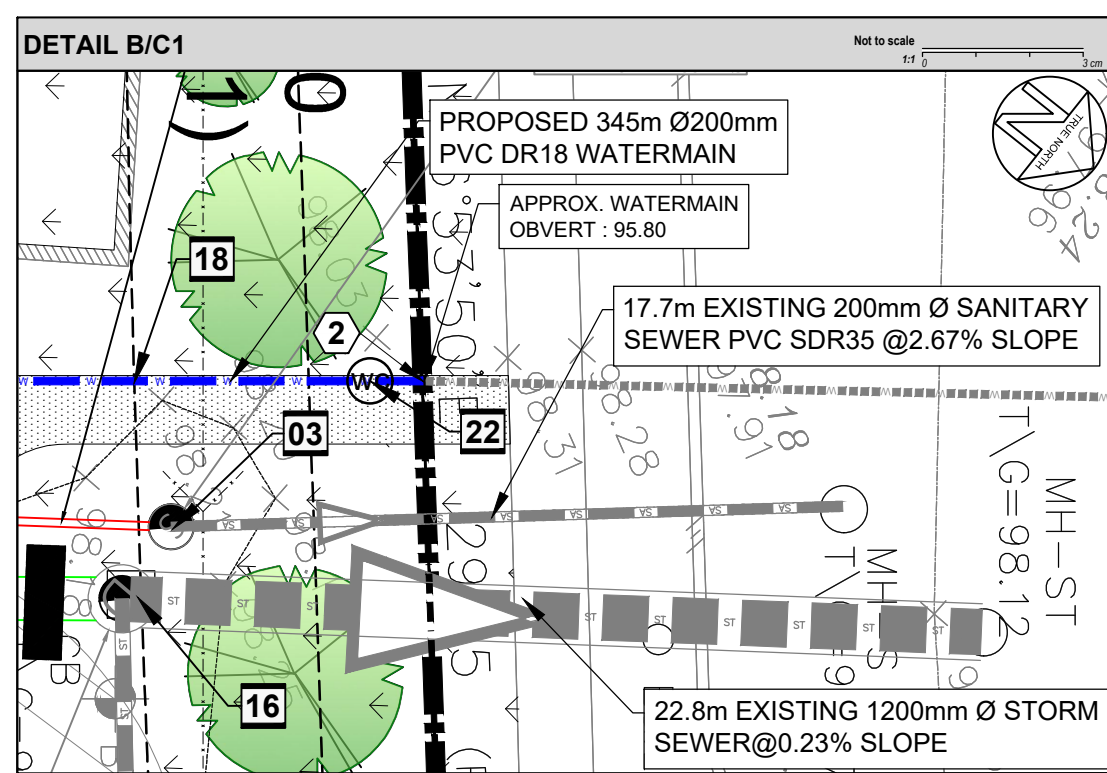
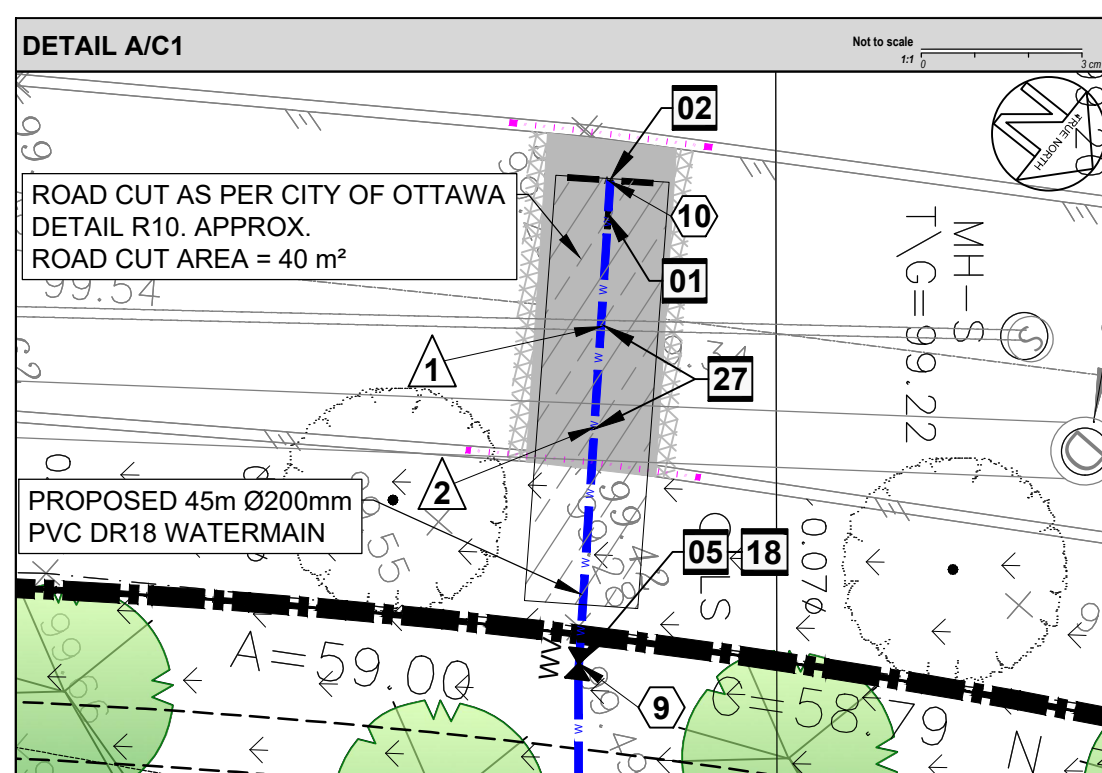
	PROPERTY LINE
	NEW BUILDING
	DEPRESSED CURB
	BREAK OF SLOPE - NEW
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING WATERMAIN
	NEW SANITARY SEWER
	NEW STORM SEWER
	NEW WATERMAIN
	NEW PERFORATED DRAIN PIPE
	NEW PERIMETER FOUNDATION DRAINAGE
	NEW DITCH
	EXISTING STORM CULVERT
	NEW STORM CULVERT
	NEW LIGHT DUTY ASPHALT AS PER DETAIL 1 / C3
	NEW HEAVY DUTY ASPHALT AS PER DETAIL 2 / C3
	NEW CONCRETE SIDEWALK
	NEW GRASS
	MILLING & OVERLAY 50mm THICK, HEAVY DUTY ASPHALT AS PER DETAIL 3 / C3
	NEW PRECAST PAVERS
	NEW EWF / MULCH
	NEW CLEAR STONE SUBDRAIN TRENCH
	NEW RUBBERIZED ASPHALT TRACK
	NEW STONE DUST PATH
	HIGH LOAD RIGID INSULATION AS PER CITY DETAIL W22
	EXISTING SIDEWALK

Concrete Sidewalk

LEGEND CONTINUED	
	EXISTING CONCRETE CURB
	NEW CONCRETE CURB
	EXISTING CATCHBASIN
	EXISTING DITCH INLET
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING STORM /SANITARY MANHOLE TO BE ADJUSTED
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	NEW CATCHBASIN
	NEW STORM MANHOLE / CATCHBASIN MANHOLE
	NEW SANITARY MANHOLE
	NEW REAR YARD CATCH BASIN
	NEW FIRE HYDRANT
	NEW WATER VALVE
	NEW INLET CONTROL DEVICE
	NEW ROOF DRAIN
	NEW SCUPPER AT 150mm ABOVE ROOF DRAIN LEVEL
	NEW TRANSFORMER PAD
	SEWER FLOW DIRECTION
	BUILDING ENTRANCE
	PROPOSED TWISI
	NEW SIAMESE CONNECTION
	WATER CHAMBER
	SEE SHEET NUMBER "C3"
	SEE SHEET NUMBER "C3"

LEGEND CONTINUED	
	EXISTING UTILITY POLE
	EXISTING LIGHT STANDARD
	EXISTING TREE
	PROPOSED TREE, SEE LANDSCAPE
	CLAY SEAL AS PER CITY OF OTTAWA DETAIL 58

GENERAL NOTES	
1.	DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
2.	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.
3.	THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELEVANT TO THE PROJECT.
4.	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.	CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL REGULATIONS SET BY JURISDICTIONS HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
6.	CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY LOCATES, DAYLIGHTING, INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.
7.	FOR EXACT LOCATIONS AND NUMBERS OF ROOF DRAINS AND SCUPPERS, REFER TO ARCHITECTURAL, STRUCTURE AND ARCHITECTURAL DRAWINGS.

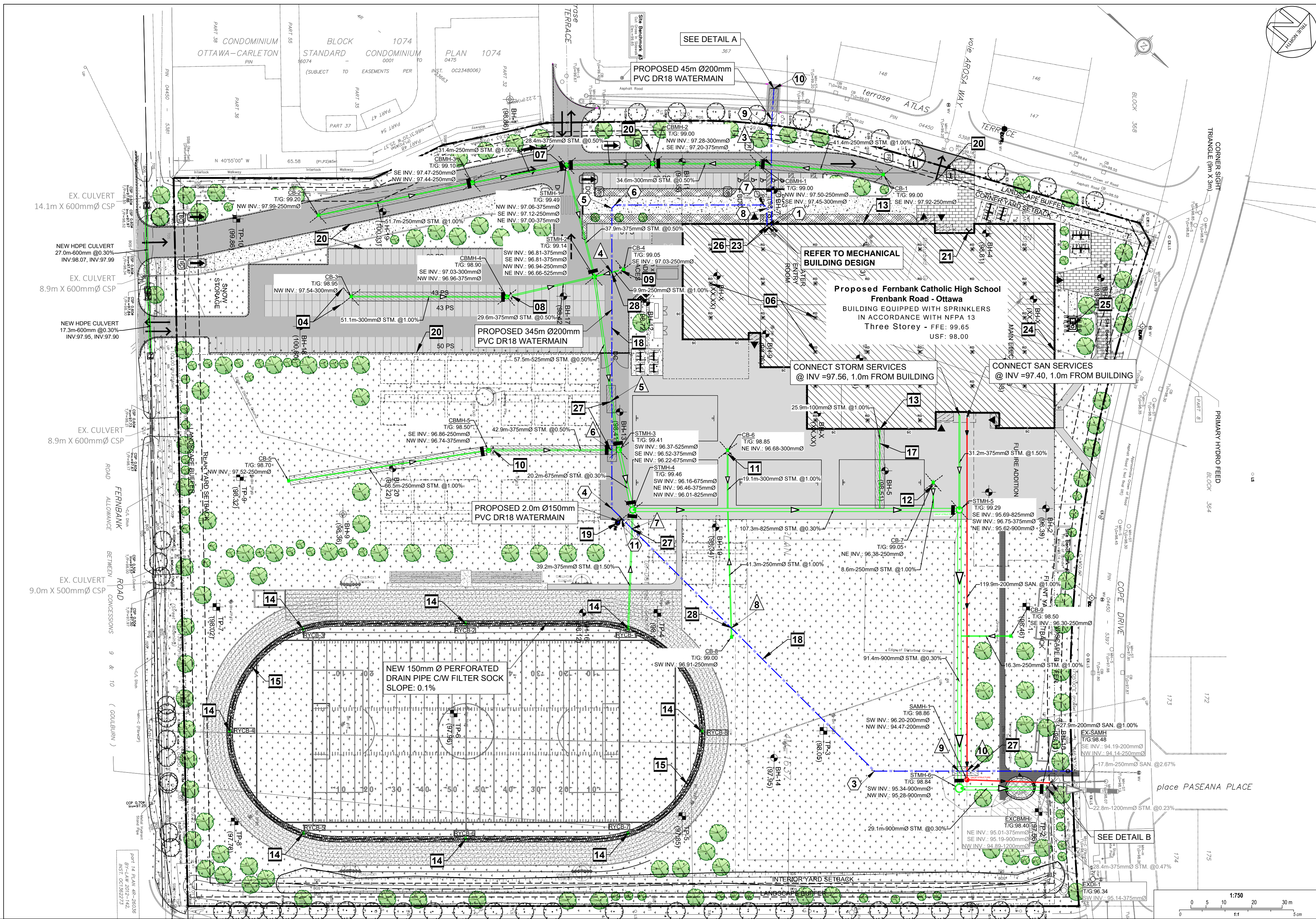


A
C1 **DETAIL**
Scale: N.T.S.

B **DETAIL**
C1 Scale: N.T.S.

DRAWING NOTES

- | | |
|----|--|
| 10 | SUPPLY AND INSTALL NEW OVERSIZED 0" PVC DR18 WATER MAIN SERVICE, MINIMUM 2.4m cover. Otherwise Provide H40 THERMAL INSULATION IN ACCORDANCE WITH CPD 1103.03, COORDINATE NEW SERVICE CONNECTION WITH MECHANICAL WORK. CURBSTONE THREAT BLOCKS SHALL BE AS PER CPD 1103.01 AND 1103.02. |
| 11 | CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATING, COORDINATING, OBTAINING AND PAYING FOR ALL REQUIRED PERMITS NOT LIMITED TO THE FOLLOWING:
- WITH CITY OF OTTAWA FOR A WATER PERMIT NEW SERVICE CONNECTION, FIRE HYDRANT ON SITE CONNECTION TO PROPOSED BUILDING, INSPECTION DISINFECTION CHAMBER, ORINATION, SEWAGE TREATMENT PLANT, AND ALL REQUIREMENTS FOR A COMPLETE SYSTEM COMMISSIONING AS PER MUNICIPAL REQUIREMENTS
- WITH CITY OF OTTAWA FOR A ROAD CUT PERMIT.
- WITH CITY OF OTTAWA FOR UTILITY LOCATIONS, EXCAVATION, SUPPORTING UTILITIES DURING CONSTRUCTION IF REQUIRED, INSPECTION AND BACKFILL. |
| 12 | INSTALLATION OF NEW SERVICE CONNECTION TEE 200mm x203mm OR PVC TO EXISTING MUNICIPAL WATERMAIN TO BE COMPLETED BY CITY OF OTTAWA. DIAPHRAGM, EXCAVATION, BACKFILL AND RE-INSTATEMENT BY CONTRACTOR. |
| 13 | EXISTING 120mm DIAMETER SANITARY MANHOLE, EXISTING 250mm INVERT S ₁ = 94.19, EXISTING 250mm INVERT N ₁ = 94.14, CONTRACTOR TO CONFIRM EXISTING POSITION TO CONSTRUCTION, REMOVE EXISTING 250mm INVERT MANHOLE, AND CONNECT NEW 250mm SANITARY SEWER TO EXISTING MANHOLE AT INVERT 94.19, PARGE AND PROVIDE WATER TIGHT CONNECTION. |
| 14 | INSTALL FOUR WAY 3/4" lead 150mm or PAPERFACED SUBURBAN OVERSIZED 150mm x150mm, CONNECT NEW 250mm GBCBM AT PAVEMENT SURFACE SIDE, PROVIDE WATER TIGHT CONNECTION (TYP). |
| 15 | SUPPLY AND INSTALL NEW 250mm WATER VALVE AT PROPERTY LINE, VALVE/AS REQUIRED AS PER CITY OF OTTAWA STANDARD DETAIL DRAWING W2.4 AND W50. |
| 16 | SUPPLY AND INSTALL WATTS ROOF DRAIN CONTROLS TO BE INSTALLED ON ROOF DRAINS, SPECIFIC WIR SETTINGS IN CLOSED POSITION, 250mm INLET, DISCHARGE: 15.80 to 1.2m, MAXIMUM ROOF PONDING DEPTH 150mm, 100 YEAR PONDING VOLUME = 3.49 m ³ . |
| 17 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT MANHOLE, STMH-1 OUTLET, MAXIMUM DISCHARGE 81.33 to 1.20m head and ORIFICE DIAMETER AT 164mm. |
| 18 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN, CBM4-4 OUTLET, MAXIMUM DISCHARGE 88.30 to 1.95m head and ORIFICE DIAMETER AT 172mm. |
| 19 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN, CB4-OUTLET, MAXIMUM DISCHARGE 40.10 to 1.82m head and ORIFICE DIAMETER AT 168mm. |
| 20 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN, CBM5-5 OUTLET, MAXIMUM DISCHARGE 30.00 to 1.85m head and ORIFICE DIAMETER AT 161mm. |
| 21 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN, CB4-OUTLET, MAXIMUM DISCHARGE 82.40 to 1.82m head and ORIFICE DIAMETER AT 168mm. |
| 22 | SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT CATCHBASIN, CB7-OUTLET, MAXIMUM DISCHARGE 46.40 to 1.27m head and ORIFICE DIAMETER AT 115mm. |
| 23 | CONNECT NEW 100mm PERIMETER FOUNDATION DRAINAGE WITH FILTER SOCK TO 100mm STORM SEWER AT INVERT 98.01 OF UT LEAKAGE PIPE. |
| 24 | INSTALL NEW REAR YARD CATCH BASIN AS PER CITY OF OTTAWA DETAIL S30. |
| 25 | NEW 150mm PERFORATED SUBDRAIN WITH FILTER SOCK, SUBDRAIN TO BE CONSTRUCTED IN CLEAR STONE EXTENDING 300mm x 300mm FROM EDGE OF PPG. |
| 26 | EXISTING 2400 DIAMETER STORM MANHOLE, EXISTING 1200mm INVERT N ₁ = 94.89, EXISTING 375mm INVERT AS ₁ = 95.01, CONTRACTOR TO CONFIRM INVERTS PRIOR TO CONSTRUCTION AND ADVISE OF ANY DISCREPANCY TO DESIGN. PROVIDE 1200mm TO PROVIDE CONNECTION OF NEW 900mm STORM SEWER AT INVERT 95.19, PARGE AND PROVIDE WATER TIGHT CONNECTION. |
| 27 | SUPPLY AND INSTALL PROLINE FITTINGS INSPECTION CHAMBER AND BACKWATER VALVE, TOP OF INSPECTION CHAMBER LID TO BE FLUSH WITH EXISTING ROAD. |
| 28 | ALL WATERMAIN SHALL BE PROVIDED WITH TRACER WIRE AS PER CITY OF OTTAWA STANDARD DETAILS AND SPECIFICATIONS. |
| 29 | NEW FIRE HYDRANT AS PER CITY OF OTTAWA W19, CONTRACTOR IS RESPONSIBLE TO PROVIDE FIRE HYDRANT TESTING AND PAINTING OF WATERMAIN, SUBDRAIN, AND STANDARD, INSTALL VALVE ON HYDRANT LEAD PER CITY DETAIL W2.4 AND W50. |
| 30 | SUBDRAINS SHOULD BE INSTALLED UNDER CURBS ON THE SIDES OF THE ACCESS ROAD AND PARKING AREA AND TO CONNECT TO STORM WATER NETWORK, SEE GEOTECHNICAL NOTES AND REFER TO GEOTECHNICAL REPORT. |
| 31 | NEW DIAPHRAGM CONNECTION, REFER TO MECHANICAL & ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. |
| 32 | INSTALL NEW DISTRICT METER AREA (DMA) CHAMBER AND VALVE AS PER CITY OF OTTAWA STANDARD DETAIL DRAWING W3 AND W3.3. |
| 33 | WATER SERVICE ENTRY, TOP OF WATERMAIN AT 97.30 TO BE 0.70m UNDER EXISTING ROAD, SEE GEOTECHNICAL REPORT FOR COORDINATES AND MATCHING WITH STRUCTURAL AND MECHANICAL DRAWINGS, INSULATE PER CITY OF OTTAWA W22 WHERE LESS THAN 2.4m COVER IS REQUIRED. |
| 34 | ROOF TOP SCUPPERS TO BE PROVIDED AT 150mm ABOVE LEVEL OF ROOF DRAINS. |
| 35 | NEW TRANSFORMER AND BOLLARDS. |
| 36 | PRESSURE REDUCING VALVE TO BE INSTALLED AS PER ONTARIO PLUMBING CODE, COORDINATE WITH MECHANICAL CONTRACTOR. |
| 37 | CONSTRUCT WATERMAIN CROSSING OVER SEWER AS PER CITY OF OTTAWA DETAIL W25-2 WITH MINIMUM 0.30m BARRER, SEPARATE FROM PROVIDE THERMAL INSULATION AS PER DETAIL W22. |
| 38 | CONSTRUCT WATERMAIN CROSSING BENEATH SEWER AS PER CITY OF OTTAWA DETAIL W25 WITH MINIMUM 0.50m BARRER TO BARREL SEPARATION. |



**OTTAWA
CATHOLIC
SCHOOL BOARD**

Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DR.
PEMBROKE, ON K8A 0W5
T: 613-735-2507
PEMBROKE@JP2G.COM

1150 MORRISON DR., #1410
OTTAWA, ON K2H 6S9
T: 613-828-7800
OTTAWA@JP2G.COM

16 EDWARD ST. S., #2111
ARNRIPR, ON K2P 3W4
T: 613-426-0780
ARNRIPR@JP2G.COM

In2c PROJECT No. 24.5050A



NOT FOR
CONSTRUCTION

4	ISSUED FOR SITE PLAN CONTROL R1	2025-12-02
3	ISSUED FOR 66% DESIGN DEVELOPMENT	2025-11-14
2	ISSUED FOR SITE PLAN CONTROL	2025-10-23
1	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION	2025-09-05
No.	DESCRIPTION	YYYY-MM-DD


N45 ARCHITECTURE INC.
71 Bank Street, 7th Floor - Ottawa, Ontario K1P 5N2
tel. 613.224.0095 fax 613.224.9811

project

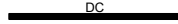
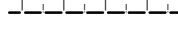
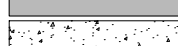
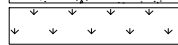
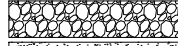
Fernbank Catholic High School

5431 Fernbank Road, Ottawa, ON
K2S 0T7




drawing title	
Site Servicing Plan	
scale	drawn by
As Shown	R. Ismail
date	checked by
Sept. 2025	Z. Bauman / A. Sammour
project number	drawing number
24-835	C1
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.	
DO NOT SCALE DRAWINGS.	
revision	

LEGEND

	PROPERTY LINE
	NEW BUILDING
	DEPRESSED CURB
	BREAK OF SLOPE - NEW
	NEW DITCH
	LIMIT OF HIGH POINT
	CONCRETE CURB REMOVAL
	NEW LIGHT DUTY ASPHALT AS PER DETAIL 1/ C3
	NEW HEAVY DUTY ASPHALT AS PER DETAIL 2/ C3
	NEW CONCRETE SIDEWALK
	NEW GRASS
	MILLING & OVERLAY 50mm THICK. HEAVY DUTY ASPHALT AS PER DETAIL 3/ C3
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	NEW CLEAR STONE SUBDRAIN TRENCH
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	EXISTING SIDEWALK
	EXISTING CONCRETE CURB
	NEW CONCRETE CURB
	PROPOSED TWSI
	NEW TRANSFORMER PAD
	EXISTING STREET LIGHT
	EXISTING HYDRO POLE

LEGEND CONTINUED	
	EXISTING CATCHBASIN
	EXISTING DITCH INLET
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING STORM /SANITARY MANHOLE TO BE ADJUSTED
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	NEW CATCHBASIN
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	NEW SANITARY MANHOLE
	NEW REAR YARD CATCH BASIN
	NEW FIRE HYDRANT
	NEW WATER VALVE
	NEW INLET CONTROL DEVICE
	NEW ROOF DRAIN
	NEW SCUPPER AT 150mm ABOVE ROOF DRAIN LEVEL
	BUILDING ENTRANCE
	NEW SIAMESE CONNECTION
	EXISTING NATURAL GRADE
	PROPOSED ELEVATION & EXISTING NATURAL GRADE
	PROPOSED ELEVATION
	PROPOSED BOTTOM OF CURB ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED SLOPE
	OVERLAND FLOW ROUTE

GEOTECHNICAL NOTES

A GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO SHALL INSPECT ALL SUBGRADE SURFACES, FOR FOOTINGS AND TRENCHES, PIPE BEDDING AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION.

2. IT IS STRICTLY RECOMMENDED TO REFER GEOTECHNICAL INVESTIGATION REPORT : GEOTECHNICAL INVESTIGATION FERNBACH CATHOLIC HIGH SCHOOL, 5431 FERNBACH ROAD, OTTAWA, ONTARIO BY EXP SERVICES INC.

3. IT IS ANTICIPATED THAT THE MAJORITY OF THE MATERIAL REQUIRED FOR BACKFILL PURPOSES AND FOR TRENCH BACKFILL MUST BE TO IMPORTED AND SHOULD CONFORM TO THE RECOMMENDATION STATED IN THE GEOTECHNICAL REPORT.

4. CONTRACTOR BIDDING ON THIS PROJECT MUST REVIEW AVAILABLE DATA AND DECIDE ON THEIR BEST METHOD FOR THE TRENCH BACKFILL IF DEEMED REQUIRED.

5. IT IS RECOMMENDED THAT THE BEDDING FOR THE UNDERGROUND SERVICES INCLUDING MATERIAL SPECIFICATIONS, THICKNESS OF COVER MATERIAL, AND COMPACTON REQUIREMENTS CONFORM TO MUNICIPAL REQUIREMENTS AND/OR ONTARIO PROVINCIAL STANDARD SPECIFICATION AND STANDARD DETAILS (SPSDS AND OPSD).

6. IT IS RECOMMENDED THAT THE PIPE BEDDING BE 300 MM THICK AND CONSIST OF OPSD GRANULAR A. THE BEDDING MATERIAL MUST BE PLACED ALONG THE SIDES AND ON TOP OF THE PIPE TO PROVIDE A MINIMUM COVER OF 300 MM. THE BEDDING SHOULD BE COMPACTED TO AT LEAST 98 PERCENT SPMD.

7. THE BEDDING THICKNESS MAY BE FURTHER INCREASED IN AREAS WHERE THE SUBGRADE BECOMES DISTURBED.

8. SINCE PAVED SURFACES WILL BE LOCATED OVER SERVICE TRENCHES, IT IS RECOMMENDED THAT THE TRENCH BACKFILL MATERIAL, WITHIN THE FROST ZONE (UP TO 16 IN BELOW FINISHED GRADE) SHOULD MATCH THE EXISTING MATERIAL. IN THE ROADWAY TO MINIMIZE DIFFERENTIAL THERMAL HEAVING OF THE SUBGRADE. THE TRENCH BACKFILL SHOULD BE PLACED IN 300 MM THICK LIFTS AND EACH LIFT SHOULD BE COMPACTED TO 98 PERCENT SPMD.

9. THE BEDROCK/AUGER REFUSAL DEPTHS ACROSS THE SITE WERE VARIABLE. SHALLOW BEDROCK DEPTHS. CONTRACTORS BIDDING MUST BE EXPECTED DURING THE INSTALLATION OF ANY SERVICES AT THE SITE AND CONTRACTORS BIDDING ON THIS WORK SHOULD ANTICIPATE THESE CONDITIONS.

10. IT IS ANTICIPATED THAT THE MAJORITY OF THE MATERIAL REQUIRED FOR TRENCH BACKFILL AND SUBGRADE FILL IN PARKING AREA AND ACCESS ROADS WOULD HAVE TO BE IMPORTED AND SHOULD CONFORM TO OPSD OR SPMD. SUBGRADE MATERIAL (SPMD) - COMPACTED TO MINIMUM 98 PERCENT OF THE SPMD AND THE UPPER 300 MM OF THE SUBGRADE FILL MUST BE COMPACTED TO 98% SPMD.

11. AS PART OF THE SUBGRADE PREPARATION, THE PROPOSED PARKING AREA, PAVED AREA AND ACCESS ROADS SHOULD BE STRIPPED OF TOPSOIL AND OTHER OBVIOUSLY UNSUITABLE MATERIAL. THE REMOVAL OF TOPSOIL AND PROPOSED PAVED AREAS SHOULD BE PROTECTED BY A HARD SURVEILLATORY ROBOT IN THE FULL-TIME PRESENCE OF A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. ANY SOFT OR SPONGY SUBGRADE AREAS DETECTED SHOULD BE SUB EXCAVATED AND BE REPLACED WITH SUITABLE APPROVED BACKFILL COMPACTED TO 98 PERCENT SPMD (ASTM D698-12E2).

GEOTECHNICAL NOTES CONTINUED

12. THE SUBDRAINS ILLUSTRATED ON PLANS ARE SCHEMATIC. FULL SCHEME OF SUBDRAINS SHOULD BE BASED UPON ROAD CROSS SECTION AND TO BE INSTALLED ON BOTH SIDES OF THE ACCESS ROAD(S). SUBDRAINS MUST BE INSTALLED IN THE PROPOSED PARKING AREA AT LOW POINTS AND SHOULD BE CONTINUOUS BETWEEN CATCHBASINS TO INTERCEPT ANY FLOW OF WATER AND MUST BE SLOPED TO PREVENT SUBGRADE SOFTENING. THIS WILL ENSURE NO WATER COLLECTS IN THE GRANULAR COURSE, WHICH COULD RESULT IN PAVEMENT FAILURE DURING THE SPRING THAW. THE LOCATION AND EXTENT OF SUBDRAINS MUST BE WITHIN THE THAW LINE DURING THE SPRING THAW AS REVIEWED BY THE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE PROPOSED SITE GRADING.
13. TO MINIMIZE THE PROBLEMS OF DIFFERENTIAL MOVEMENT BETWEEN THE PAVEMENT AND CATCHBASIN/MANHOLE DUE TO FROST ACTION, THE BACKFILL AROUND THE STRUCTURES SHOULD BE COMPACT FREE-DRAINING GRANULAR SUBGRADE. THE PAVEMENT SHOULD BE GRANULAR TYPE II MATERIAL. WEEP HOLES SHOULD BE PROVIDED IN THE CATCHBASIN/MANHOLE TO FACILITATE DRAINAGE OF ANY WATER THAT MAY ACCUMULATE IN THE GRANULAR FILL.
14. THE MOST SEVERE LOADING CONDITIONS ON LIGHT-DUTY PAVEMENT AREAS AND THE SUBGRADE MAY OCCUR DURING CONSTRUCTION. CONSEQUENTLY, SPECIAL PROVISIONS SUCH AS RESTRICTED Lanes, HALF-LOADS DURING PAVING, TEMPORARY CONSTRUCTION ROADWAYS, ETC., MAY BE REQUIRED, ESPECIALLY IF CONSTRUCTION IS CARRIED OUT DURING UNFAVORABLE WEATHER.
15. THE FINISHED PAVEMENT SURFACE SHOULD BE FREE OF DEPRESSIONS AND SHOULD BE SLOPED TO DRAIN AT A MINIMUM GRADE OF 1% IN ALL DIRECTIONS. DRAINAGE SHOULD BE PROVIDED TO DRAINAGE TOWARDS CATCH BASINS. SURFACE WATER SHOULD NOT BE ALLOWED TO POND ADJACENT TO THE OUTSIDE EDGES OF PAVED AREAS.
16. RELATIVELY WEAKER SUBGRADE MAY DEVELOP OVER PAVED SURFACE TRENCHES AT SUBGRADE LEVEL. THESE AREAS MAY BE IMPROVED BY THE USE OF THICKER COARSER SUB-BASE MATERIALS AND THE USE OF A GEOTEXTILE AT THE SUBGRADE LEVEL. IF THIS IS THE CASE, IT IS RECOMMENDED THAT ADDITIONAL 150 MM THICK GRANULAR SUB-BASE, OPS58 GRANULAR 1 TYPE1, SHOULD BE PROVIDED IN THESE AREAS. IN ADDITION TO THE USE OF A GEOTEXTILE AT THE SUBGRADE LEVEL.
17. THE GRANULAR MATERIALS USED FOR PAVEMENT CONSTRUCTION SHOULD CONFORM TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS 1010) FOR GRANULAR A AND GRANULAR B TYPE II AND SHOULD BE COMPACTED TO 100 PERCENT OF THE SPMD.
18. THE ASPHALTIC CONCRETE USED, AND ITS PLACEMENT SHOULD MEET OPS3 1150 OR 1151 REQUIREMENTS. IT SHOULD BE PLACED AND FINISHED WITHIN THE TIME PERIOD OF THE ROAD (ASTM D2041). ASPHALT PLACEMENT SHOULD BE IN ACCORDANCE WITH OPS3 310 AND OPS3 313.
19. ALL EARTHWORK ACTIVITIES FROM PLACEMENT AND COMPACTION OF FILL IN THE SERVICE TRENCHES TO SUBGRADE PREPARATION, PLACEMENT AND COMPACTION OF GRANULAR MATERIALS AND ASPHALTIC CONCRETE SHOULD BE SUPERVISED AND CONTROLLED BY CERTIFIED ENGINEERS TO ENSURE THAT CONSTRUCTION OF THE SEWERS AND PAVEMENT PROCEEDS ACCORDING TO THE SPECIFICATIONS.
20. STRINGENT CONSTRUCTION CONTROL PROCEDURES SHOULD BE MAINTAINED TO ENSURE THAT UNIFORM SUBGRADE MOISTURE AND DENSITY CONDITIONS ARE ACHIEVED.

GEOTECHNICAL NOTES CONTINUED

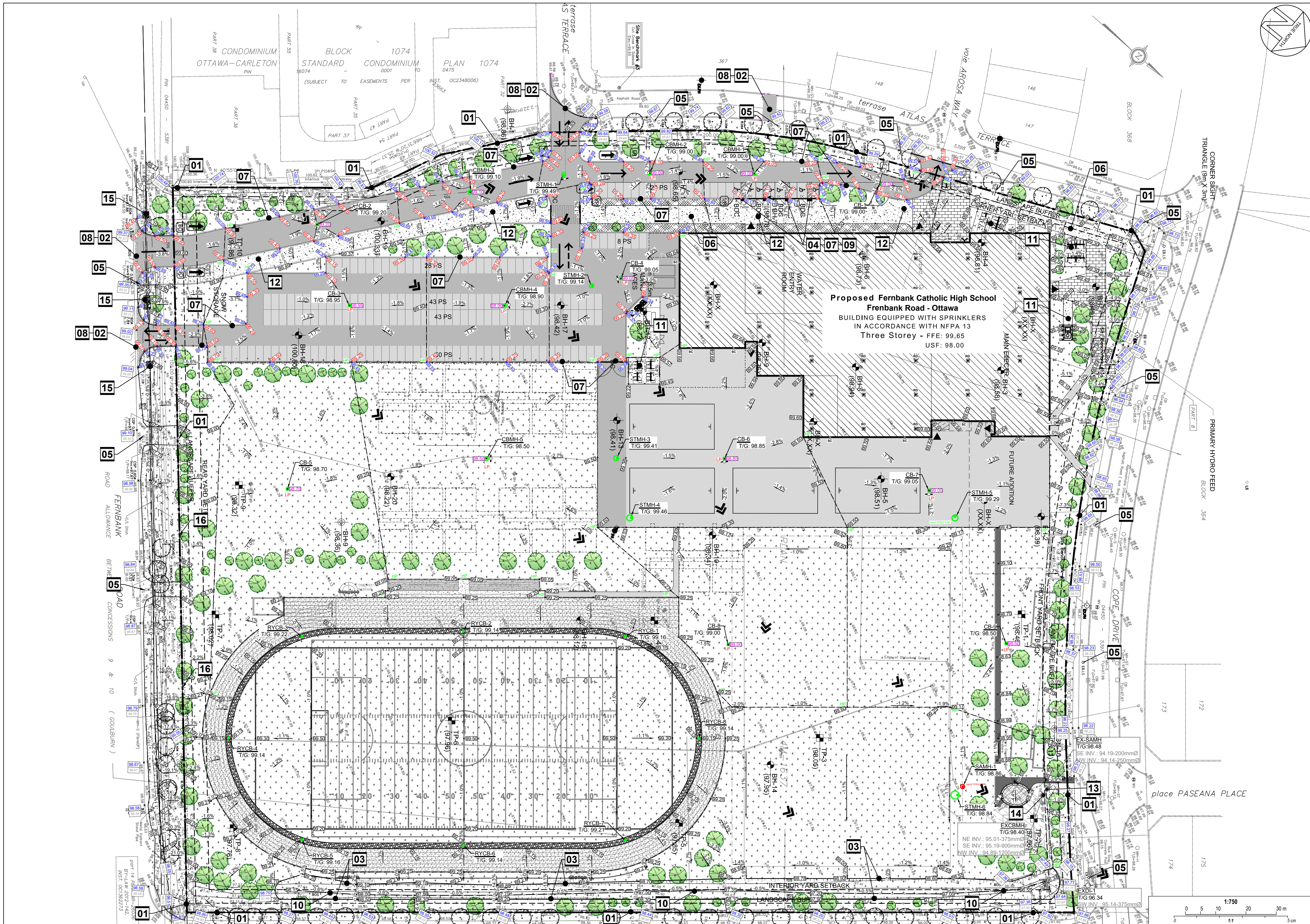
11. SHOULD SURFACE AND SUBSURFACE WATER SEEPAGE OCCUR INTO THE EXCAVATIONS COLLECT ANY WATER ENTERING THE EXCAVATIONS AND REMOVE IT BY PUMPING FROM SUMP.
12. IF THE BACKFILL IN THE SERVICE TRENCHES WILL CONSIST OF GRANULAR FILL, CLAY SEALS SHOULD BE INSTALLED IN THE SERVICE TRENCHES AT SELECT INTERVALS (SPACING) AS PER CITY OF OTTAWA DRAWING NO. 58. THE SEALS SHOULD BE 1m WIDE, EXTEND OVER THE ENTIRE TRENCH WIDTH AND FROM THE BOTTOM OF THE TRENCH TO THE UNDERSIDE OF THE PAVEMENT STRUCTURE. THE CLAY SHOULD BE COMPACTED TO 95 PERCENT SPMD. THE PURPOSE OF THE CLAY SEALS IS TO PREVENT THE PERMANENT LOWERING OF THE GROUNDWATER LEVEL. CLAY SEAL LOCATIONS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
13. IT IS RECOMMENDED THAT A GEOTEXTILE BE PLACED ON THE SURFACE OF THE SUBGRADE PRIOR TO PLACEMENT OF ANY GRANULAR SUB-BASE. THIS MUST BE ALLOWED FOR BY THE CONTRACTOR AND INSTALLED WHEN DIRECTED BY THE GEOTECHNICAL ENGINEER.
14. THE MUNICIPAL SERVICES SHOULD BE INSTALLED IN SHORT OPEN TRENCH SECTIONS THAT ARE EXCAVATED AND BACKFILLED THE SAME DAY.

GENERAL NOTES

1. DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
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3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELATIVE TO THE PROJECT.
4. 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. CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
6. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITIES, DAILY VISUAL INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.
7. IN THE EVENT THAT EXCAVATION IS REQUIRED ON THE CITY OF OTTAWA ROAD OR ADJACENT PROPERTY, CONTRACTOR IS RESPONSIBLE TO ENSURE ADDITIONAL PERMIT AND/or PERMISSION

DRAWING NOTES

- 01 MATCH EXISTING GRADES AT PROPERTY LINE AND LIMITS OF WORK.
- 02 ANY DISTURBED AREA WITHIN THE RIGHT-OF-WAY SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY OF OTTAWA.
- 03 TOP OF BANK, PROVIDE MAXIMUM 4:1 SLOPE TO TIE INTO EXISTING / PROPOSED GRADES.
- 04 TWISI AS PER CITY STANDARDS.
- 05 EXISTING LIGHT STANDARD TO BE PROTECTED DURING CONSTRUCTION.
- 06 CONSTRUCT SIDEWALK AS PER CITY OF OTTAWA STANDARD DETAIL SC3 & SC5. PROVIDE MAXIMUM SLOPE OF 2.0% INSTALL REINFORCING MESH 150X150mm M9w9, 150X90 M9w9, THROUGHOUT NEW SIDEWALK. STOP WIRE 300MM AT EXPANSION JOINTS.
- 07 CONSTRUCT CONCRETE BARRIER / DEPRESSION CURB AS PER CITY OF OTTAWA STANDARD DETAIL SC1, SC1.1.
- 08 SAW CUT INTO EXISTING ASPHALT AS PER DETAIL SC3. MATCH EXISTING PAVEMENT AND GRANULAR STRUCTURE.
- 09 NEW ACCESSIBLE PARKING ASSESS RAMP. PROVIDE MAXIMUM 8% SLOPE.
- 10 CONSTRUCT NEW SWALE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL DRAWING S22 (WITH HDPE PERFORATED PIPE) .
- 11 CONCRETE PADS FOR GARBAGE STORAGE / BIKE RACKS & NEW TRANSFORMER.
- 12 CONSTRUCT SIDEWALK AND CURB AS PER CITY OF OTTAWA DETAIL SC1.4 CONSTRUCT EXPANSION JOINTS AS PER CITY OF OTTAWA DETAIL SC5.
- 13 PROVIDE RISERS AND ADJUSTMENT UNITS OVER EXISTING 1200mm DIAMETER SANITARY MANHOLE TO BRING TO FINISHED GRADE. TOP OF STRUCTURE CONCRETE AT APPROXIMATELY 97.15. FINISHED GRADE AT 98.38. PROVIDE NEW FRAME AND GRATE AS PER CITY OF OTTAWA DETAIL S25 / S24.1. PARGE AND PROVIDE WATER TIGHT CONNECTION.
- 14 PROVIDE RISERS AND ADJUSTMENT UNITS OVER EXISTING 2400mm DIAMETER STORM MANHOLE TO BRING TO FINISHED GRADE. TOP OF EXISTING STRUCTURE CONCRETE AT APPROXIMATELY 97.23. FINISHED GRADE AT 98.38. PROVIDE NEW FRAME AND GRATE AS PER CITY OF OTTAWA DETAIL S25 / S24.1 PARGE AND PROVIDE WATER TIGHT CONNECTION.
- 15 RIP-RAP PER OPSD 810.010, REFER TO DRAWING C5
- 16 PROVIDE MAX 3H:1V SLOPE FROM PROPERTY LINE TO TIE INTO EXISTING DITCH GRADE



**OTTAWA
CATHOLIC
SCHOOL BOARD**

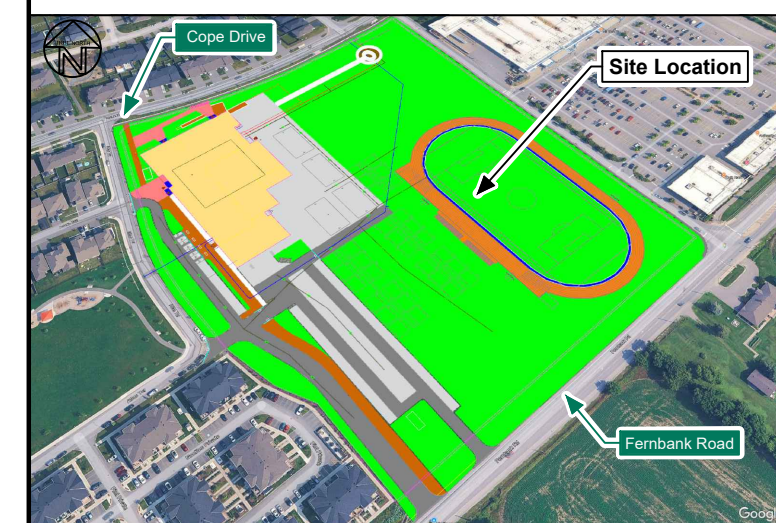
J2p **Jp2g Consultants Inc.**
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DR.
PEMBROKE, ON, K8A 6W5
T: 613-735-2507
PEMBROKE@JP2G.COM

1150 MORRISON DR. #410
OTTAWA, ON, K2H 8S9
T: 613-828-7800
OTTAWA@JP2G.COM

16 EDWARD ST. S. #211
ARNPRIOR, ON, K7S 3W4
T: 613-426-0780
ARNPRIOR@JP2G.COM

Jp2g PROJECT No.: 24-5050A



NOT FOR
CONSTRUCTION

4	ISSUED FOR SITE PLAN CONTROL R1	2025-12-02
3	ISSUED FOR 66% DESIGN DEVELOPMENT	2025-11-14
2	ISSUED FOR SITE PLAN CONTROL	2025-10-23
1	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION	2025-09-05
No.	DESCRIPTION	YYYY-MM-DD

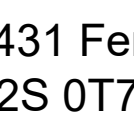
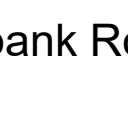
N45 ARCHITECTURE INC.

71 Bank Street, 7th Floor - Ottawa, Ontario K1P 5N2
tel. 613.224.0095 fax 613.224.9811

project

Fernbank Catholic High School

5431 Fernbank Road, Ottawa, ON
K2S 0T7

drawing title	
Site Grading Plan	
scale	drawn by
As Shown	R. Ismail
date	checked by
Sept. 2025	Z. Bauman / A. Sammour
project number	drawing number
24-835	C2
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.	
DO NOT SCALE DRAWINGS.	revision

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. 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 OF OTTAWA AND THE CONSULTANT.
3. THE POSITION OF EXISTING POLE LINES, CONDUITS

- [illegible]

1. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS. PROVIDE CITY OF OTTAWA INSPECTION REPORTS FOR ALL NEW SANITARY PIPE. PROVIDE EYE TESTING FOR NEW SERVICES.
2. 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-182.2.3.3.
3. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
4. 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.
5. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER OPSD 101 021.
6. ALL SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD S35, OR APPROVED BY THE ENGINEER.

1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF CHICAGO STANDARD SPECIFICATIONS AND THE CHICAGO INSPECTION REPORTS FOR ALL NEW STORM SEWERS, MANHOLES AND CATCHBASINS.
2. STORM SEWERS 375mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A27.3.
3. STORM SEWERS 450mm AND LARGER SHALL BE REINFORCED CONCRETE CLASS 180.
4. SEWERS RECORDS SHALL BE MAINTAINED AT CITY OF CHICAGO FILE NO. 56.
5. ALL STORM MANHOLES TO BE AS PER MANHOLE AND CATCHBASIN SCHEDULE.
6. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF CHICAGO STANDARD SPEC. OR APPROVED BY THE ENGINEER.
7. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF CHICAGO STANDARD SPEC.
8. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1:0% SLOPE UNLESS OTHERWISE SPECIFIED.
9. STORM CATCHBASINS AS PER OPSD 705.010 AND FLOORCOVER AS PER CITY STANDARD DRAWINGS.
10. STORM GEMS AS PER OPSD 705.010 AND FLOORCOVER AS PER CITY STANDARD DRAWINGS.
11. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
12. INSTALLATION OF FLOW CONTROL ICDS TO BE VERIFIED BY QUALITY CONTROL ENGINEER RETAINED BY CONTRACTOR.

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

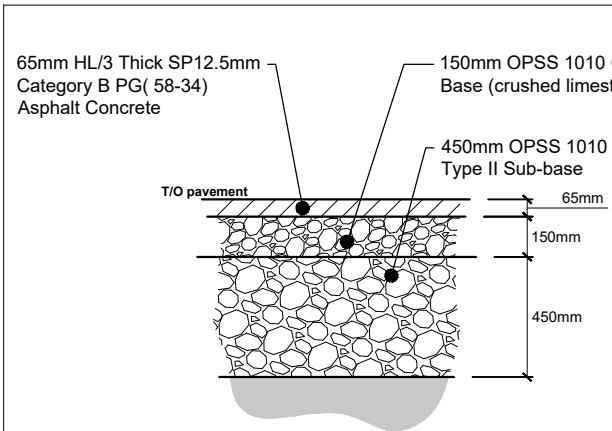
- PRIOR TO START OF CONSTRUCTION:
- 1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C4.
- 1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN 24 HOURS OF THE START OF CONSTRUCTION.
- 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
2. DURING CONSTRUCTION:
- 2.1. MINIMIZE THE EXTENSION OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
- 2.2. PERMITTER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STRUCTURE TEMPORARILY SUBSTITUTES 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 INSTALLING TEMPORARY SLOTTED CURBS TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SLOTTED CURBS TO EXISTING CURBS AS REQUIRED.
- 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING OF EXPOSED AREAS WITHIN 72 HOURS OF EXPOSURE.
- 2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASINS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
- 2.6. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- 2.7. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
- 2.8. DO NOT LOCATE TPOC, PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE TOXIC SUBSTANCES ARE LOCATED. ALL TPOC PILES ARE TO BE SEEDS IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- 2.9. CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TPOC AREAS AND OTHER AREAS BY HAND OR RUBBER TIRE 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. NO TRUCKS OR VEHICLES ARE TO BE ALLOWED TO BE LOADED OR UNLOADED FROM VEHICULAR TRACKING AS REQUIRED.
- 2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
- 2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE DUSTED IMMEDIATELY BY HAND OR RUBBER TIRE WATERING.
- 2.14. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND 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 AROUND THE SYSTEM AND TO MINIMIZE ANY IMPACTS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGE THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

4. ALL WATERMAIN AND WATERMAIN APPURTENANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE PRESCRIBED CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
5. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE UNK. GRI. (RCP) CLASS 150 R10 18 MEETING AWWA SPECIFICATION C900.
6. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER UTILITIES AT A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM CLEARANCE CANNOT BE MAINTAINED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM COVER CANNOT BE MAINTAINED, THE WATERMAIN SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W26. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN EXISTING STRUCTURE, THE WATERMAIN SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
7. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, OR DRAUGHTS, REDUCING AND ENLARGING CONNECTIONS 100mm and Larger. IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 & W25.4.

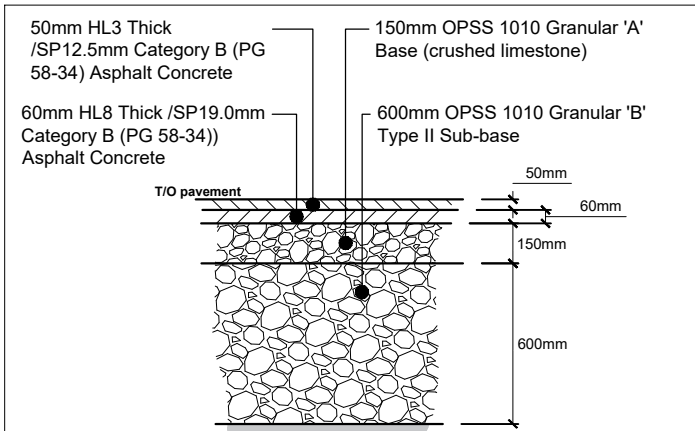
5. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING FOUNDATION, PAVED DRIVE, SIDEWALKS AND SERVICE TRENCHES. EXCESS MATERIAL REMOVAL FROM SITE SHALL BE TO THE GEOTECHNICAL AND ENVIRONMENTAL ENGINEER'S RECOMMENDATION.
6. CONTRACTOR TO STOCKPILE UN-USEABLE FILL TO BE REMOVED FROM SITE TO ALLOW THE GEOTECHNICAL ENGINEER IN 10 DAYS TO INSPECT THE MATERIALS AND TO PROVIDE GUIDANCE TO THE CONTRACTOR ON HOW TO DISPOSEL EROSION CONTROL MEASURE ARE TO BE APPLIED TO STOCKPILE AREA. EXCESS MATERIALS SHALL BE DISPOSED AS PER THE REQUIREMENTS OF 03-060.
7. IF CONTAMINATION HAZARDOUS MATERIAL IS SUSPECTED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE PROPERTY OWNER(S), PROJECT LEADER, PRIME CONSULTANT, AND THE GEOTECHNICAL ENGINEER IMMEDIATELY ON HOW TO PROCEED ACCORDING TO FEDERAL AND PROVINCIAL REGULATION. THE GEOTECHNICAL ENGINEER UNDER THE GUIDANCE OF A QUALIFIED PERSON SHALL CONDUCT ADDITIONAL SAMPLING (INCLUDING LEACHATE TESTING) IF REQUIRED TO MEET THE MINIMUM SAMPLING FREQUENCIES UNDER O.R. 406/19 (AS APPEARED).
8. EXCESS SOIL MANAGEMENT, TESTING AND DISPOSAL MUST COMPLY WITH O.R. 406/19.
9. ALL SOIL HAULAGE RECORDS SHALL BE KEPT AND PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE CONSULTANT.
10. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED AT AN APPROVED DUMP SITE BY CONTRACTOR.

1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA
DETAIL R10.

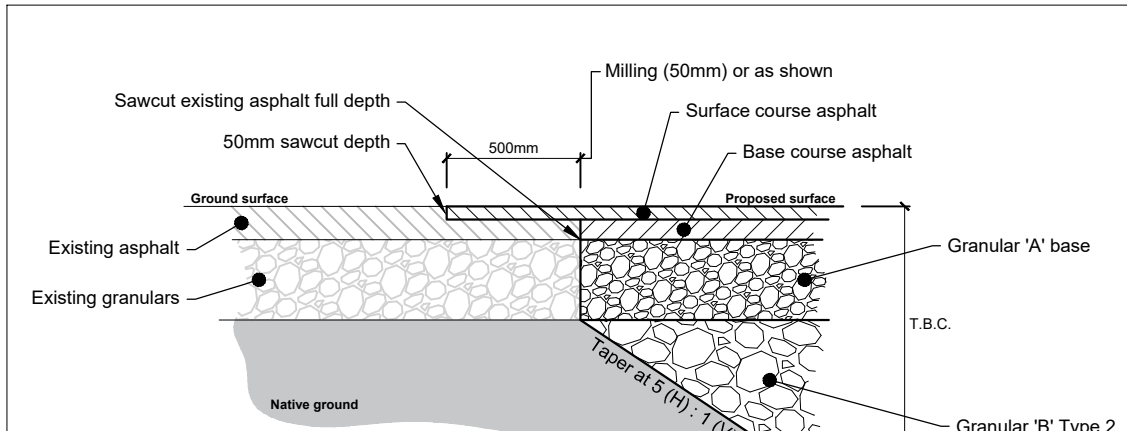
- TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
- FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT 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 PLANS, AND FOR PROVIDING 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.
- 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 AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.



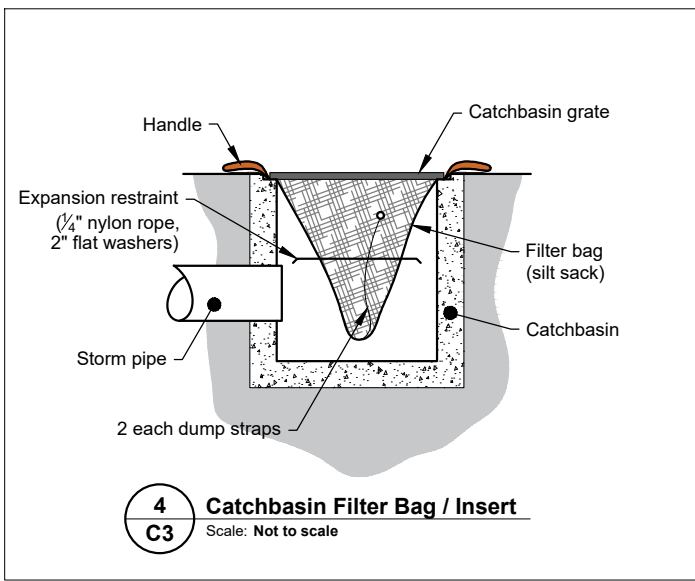
1 Pavement Structure for Light Duty Traffic
C3 Scale: As shown



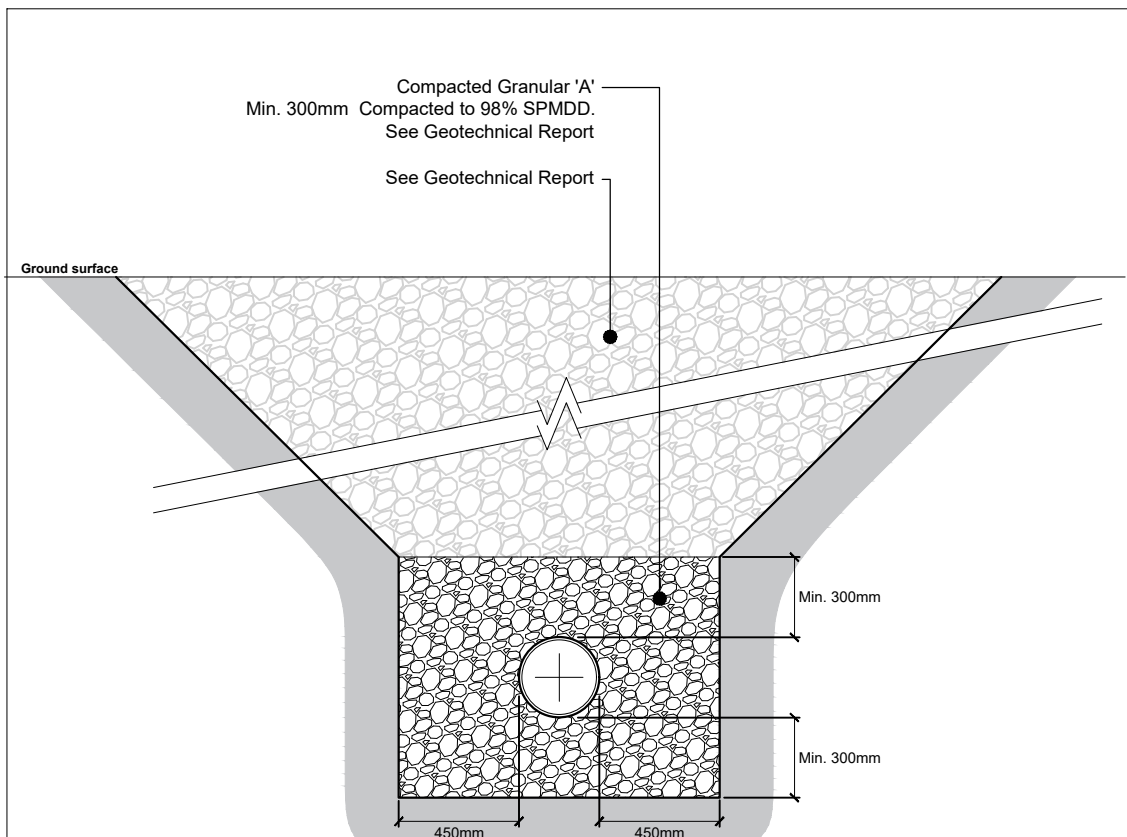
2 Pavement Structure for Heavy Duty Traffic
C3 Scale: As shown



3 Key Joint Detail
C3 Scale: As shown



4 **Catchbasin Filter Bag / Insert**
C3 Scale: Not to scale



5 Standard Trench
C3 Scale: As shown

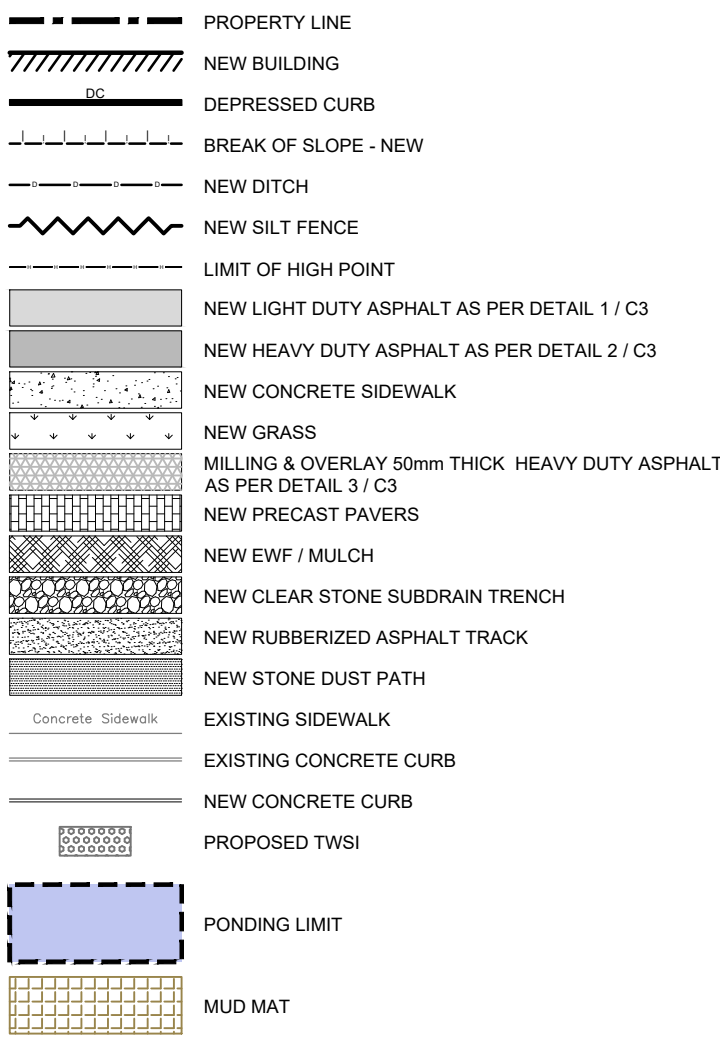
NEW STORM SEWER STRUCTURE SCHEDULE					
MANHOLE NO.	DESCRIPTION	T/GRATE ELEVATION	INVERT ELEVATION / PIPE DIAMETER	OPSD No.	FRAME (CITY OF OTTAWA)
CB-1	600x600mm Catchbasin	99.00	SE INV.: 97.92 - 250mmØ	705.010	S19
CB-2	600x600mm Catchbasin	99.20	NW INV.: 97.99 - 250mmØ	705.010	S19
CB-3	600x600mm Catchbasin	98.95	NW INV.: 97.54 - 300mmØ	705.010	S19
CB-4	600x600mm Catchbasin	99.05	SE INV.: 97.03 - 250mmØ	705.010	S19
CB-5	600x600mm Catchbasin	98.70	NW INV.: 97.52 - 250mmØ	705.010	S19
CB-6	600x600mm Catchbasin	98.85	NE INV.: 96.68 - 300mmØ	705.010	S19
CB-7	600x600mm Catchbasin	99.05	NE INV.: 96.38 - 250mmØ	705.010	S19
CB-8	600x600mm Catchbasin	99.00	SW INV.: 96.91 - 250mmØ	705.010	S19
CB-9	600x600mm Catchbasin	98.50	SE INV.: 96.30 - 250mmØ	705.010	S19
CBMH-1	1,200mmØ Manhole	99.00	NW INV.: 97.50 - 250mmØ SE INV.: 97.45 - 300mmØ	701.010	S25 / S28.1
CBMH-2	1,200mmØ Manhole	99.00	NW INV.: 97.28 - 300mmØ SE INV.: 97.20 - 375mmØ	701.010	S25 / S28.1
CBMH-3	1,200mmØ Manhole	99.10	SE INV.: 97.47 - 250mmØ NW INV.: 97.44 - 250mmØ	701.010	S25 / S28.1
CBMH-4	1,200mmØ Manhole	98.90	SE INV.: 97.03 - 300mmØ NW INV.: 96.96 - 375mmØ	701.010	S25 / S28.1
CBMH-5	1,200mmØ Manhole	98.50	SE INV.: 96.86 - 250mmØ NW INV.: 96.74 - 375mmØ	701.010	S25 / S28.1
STMH-1	1,200mmØ Manhole	99.49	NW INV.: 97.06 - 375mmØ SE INV.: 97.12 - 250mmØ NE INV.: 97.00 - 375mmØ	701.010	S25 / S24.1
STMH-2	1,200mmØ Manhole	99.14	SW INV.: 96.81 - 375mmØ SE INV.: 96.81 - 375mmØ NW INV.: 96.94 - 250mmØ NE INV.: 96.66 - 525mmØ	701.010	S25 / S24.1
STMH-3	1,500mmØ Manhole	99.41	SW INV.: 96.37 - 525mmØ SE INV.: 96.52 - 375mmØ NE INV.: 96.22 - 675mmØ	701.011	S25 / S24.1
STMH-4	1,800mmØ Manhole	99.46	SW INV.: 96.16 - 675mmØ NE INV.: 96.46 - 375mmØ NW INV.: 96.01 - 825mmØ	701.012	S25 / S24.1
STMH-5	1,800mmØ Manhole	99.29	SE INV.: 95.69 - 825mmØ SW INV.: 96.75 - 375mmØ NE INV.: 95.62 - 900mmØ	701.012 / 1003.010 DROP STRUCTURE TEE	S25 / S24.1
STMH-6	2,400mmØ Manhole	98.84	SW INV.: 95.34 - 900mmØ NW INV.: 95.28 - 900mmØ	701.013	S25 / S24.1

NEW SANITARY SEWER STRUCTURE SCHEDULE					
MANHOLE NO.	DESCRIPTION	T/GRATE ELEVATION	INVERT ELEVATION / PIPE DIAMETER	OPSD No.	FRAME (CITY OF OTTAWA)
SAMH-1	1,200mmØ Manhole	98.86	SW INV.: 96.20 - 200mmØ NW INV.: 94.47 - 200mmØ	701.010 / 1003.010 DROP STRUCTURE TEE	S25 / S24

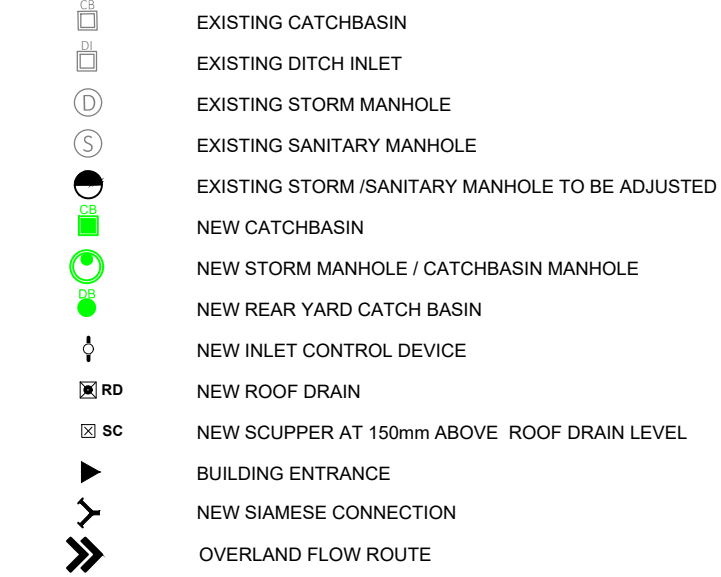
EROSION AND SEDIMENT CONTROL NOTES

- "* CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES."**
- PRIOR TO START OF CONSTRUCTION:
 - INSTALL SILT FENCE IN LOCATION SHOWN ON DRAWINGS.
 - INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).
 - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
 - DURING CONSTRUCTION:
 - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
 - 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.
 - PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING GPS AS REQUIRED.
 - 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 SUMP 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 SEEDDED 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).
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
 - CITY OF OTTAWA ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
 - DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
 - ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
 - TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
 - 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.
 - 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.

LEGEND



LEGEND CONTINUED



ICD SCHEDULE

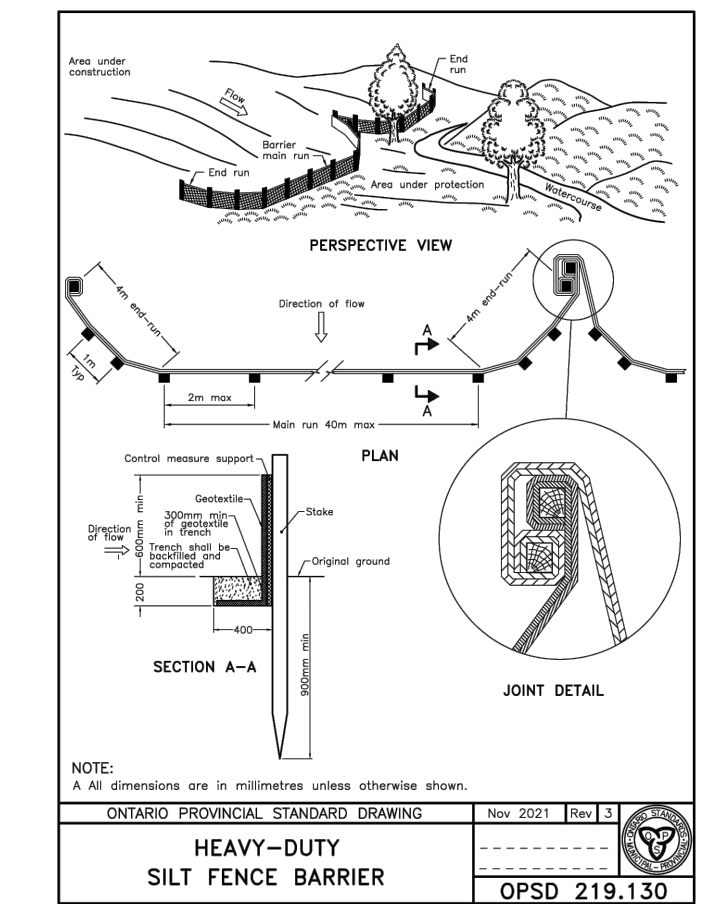
ICD	LOCATION	PIPE SIZE (mm)	ICD SIZE (mm)	100 YEAR HEAD (m)	100 YEAR FLOW RATE (l/s)
ICD-1	STMH-1	375	164	2.01	81.3
ICD-2	CBMH-4	375	172	1.97	88.3
ICD-3	CB-4	250	115	2.08	40.1
ICD-4	CBMH-5	375	101	1.89	30.0
ICD-5	CB-6	250	160	2.31	82.4
ICD-6	CB-7	250	115	2.77	46.4

DRAWING NOTES

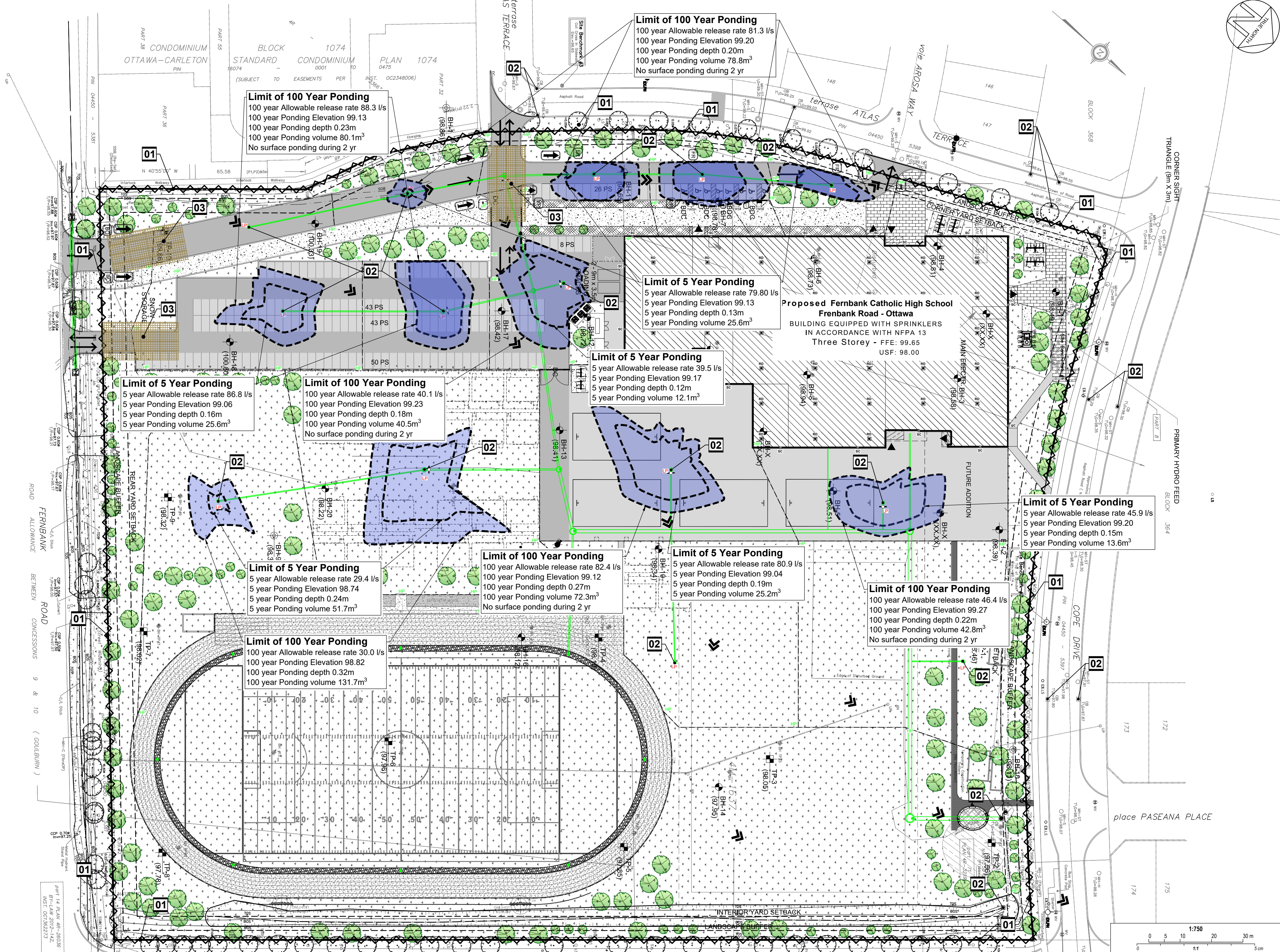
- INSTALL SILT FENCE IN ACCORDANCE WITH OPSD 219.130.
- INSTALL FILTER BAG (SILT SACK) TO PROTECT EXISTING CATCHBASINS & CATCHBASIN MANHOLES AS PER DETAIL 4/C3.
- PROPOSE MUD MAT DURING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS, AND INSTALLING AND MAINTAINING MUD MATS FOR OUTGOING CONSTRUCTION TRAFFIC DURING CONSTRUCTION ACTIVITIES.
- PREVENT SOIL LOSS DURING CONSTRUCTION (BY STORM WATER RUNOFF OR WIND EROSION).
- PROTECT TOPSOIL BY STOCKPILING FOR REUSE.
- PREVENT SEDIMENTATION OF STORM SEWERS AND RECEIVING STREAMS.
- PREVENT AIR POLLUTION FROM DUST AND PARTICULATE MATTER.
- ALL STORM MANHOLES AND CATCHBASIN MANHOLES TO HAVE 300mm SUMPS; ALL CATCHBASINS TO HAVE 600mm SUMPS.
- INSTALL FILTER BAG INSERT IN ALL STORM MANHOLES AND CATCH BASINS IMPACTED DURING CONSTRUCTION, INCLUDING CATCH BASINS IN THE RIGHT OF WAY.
- SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA INSPECTOR OR CONSERVATION AUTHORITY.
- STORM WATER PUMPED INTO MUNICIPALITY OF CITY OF OTTAWA SERVICE SHALL FLOW THROUGH A FILTER SOCK.
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.



1 C4 Heavy Duty Silt Fence Barrier
Scale: Not to scale



Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DR. PEMBROKE, ON, K6A 6W5
T: 613-735-2007
PEMBROKE@JP2G.COM

1150 MORRISON DR. #410 OTTAWA, ON, K2H 6S9
T: 613-802-7600
OTTAWA@JP2G.COM

16 EDWARD ST. S. #211 ARLPRIOR, ON, K7S 3M4
T: 613-600-0780
ARLPRIOR@JP2G.COM

Jp2g PROJECT No.: 24-5050A

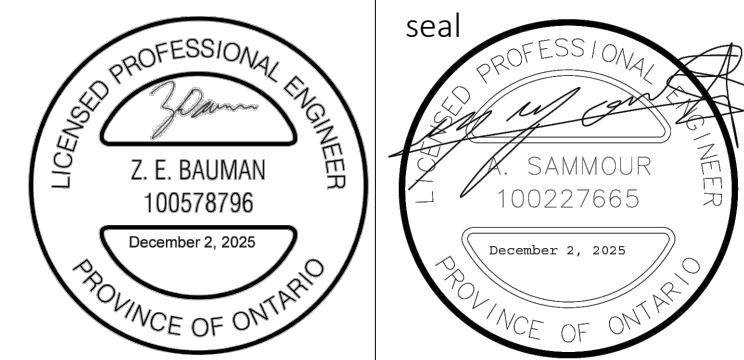


NOT FOR CONSTRUCTION

4	ISSUED FOR SITE PLAN CONTROL R1	2025-12-02
3	ISSUED FOR 66% DESIGN DEVELOPMENT	2025-11-14
2	ISSUED FOR SITE PLAN CONTROL	2025-10-23
1	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION	2025-09-05
No.	DESCRIPTION	YYYY-MM-DD

N45 ARCHITECTURE INC.
71 Bank Street, 7th Floor - Ottawa, Ontario K1P 5N2
tel. 613.224.0095 fax 613.224.9811

project
Fernbank Catholic High School
5431 Fernbank Road, Ottawa, ON K2S 0T7

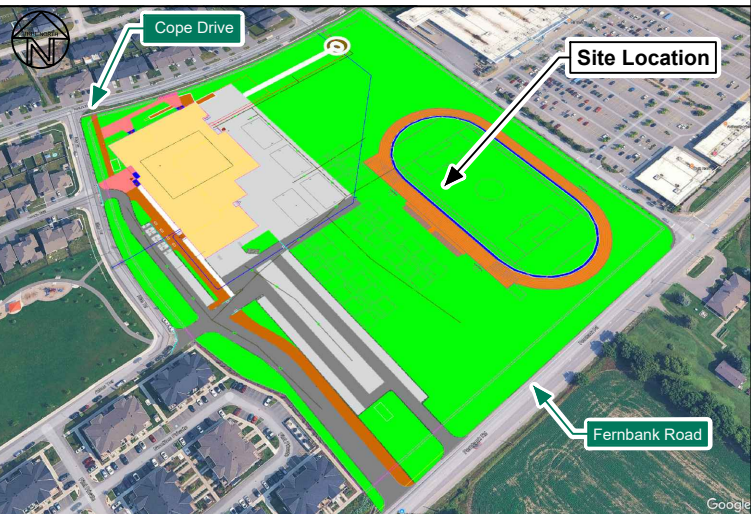
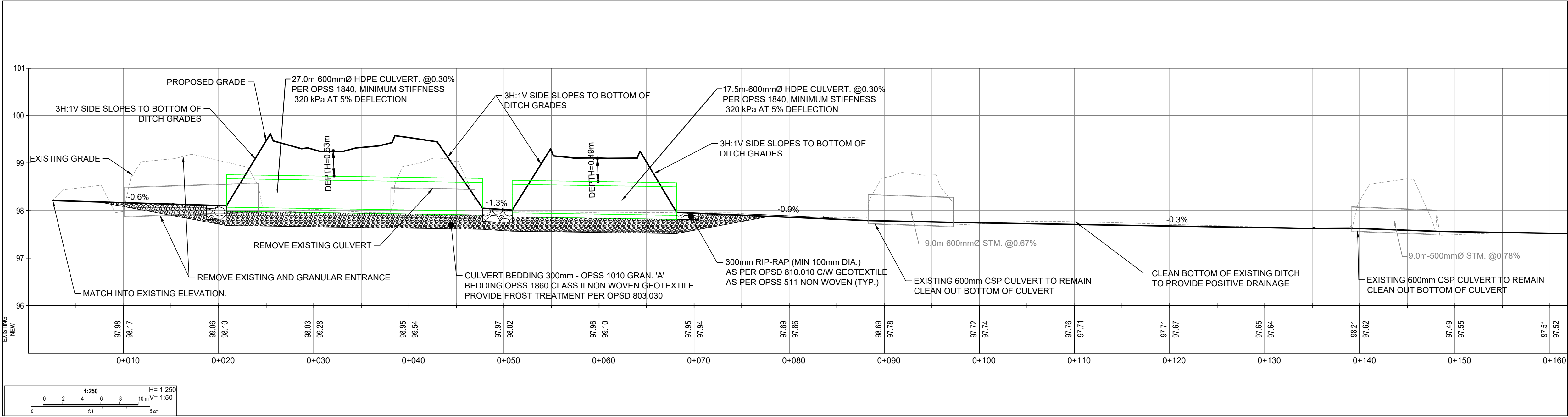
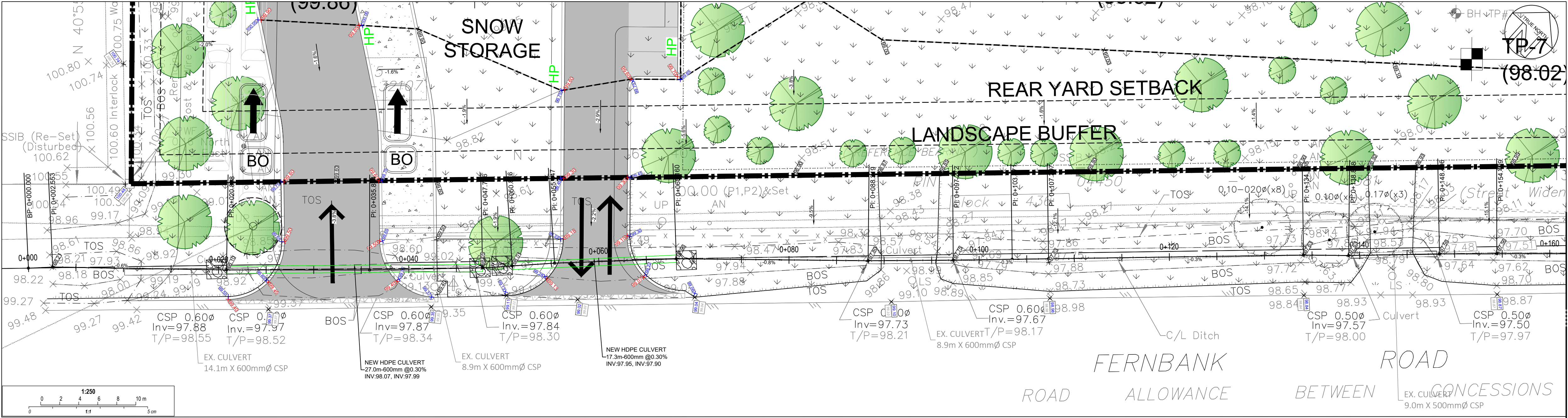


drawing title
Storm Water Management and Erosion Sediment Control Plan

scale As Shown	drawn by R.Ismail
date Sept.2025	checked by Z.Bauman / A.Sammour
project number 24-835	drawing number C4

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
DO NOT SCALE DRAWINGS.

revision

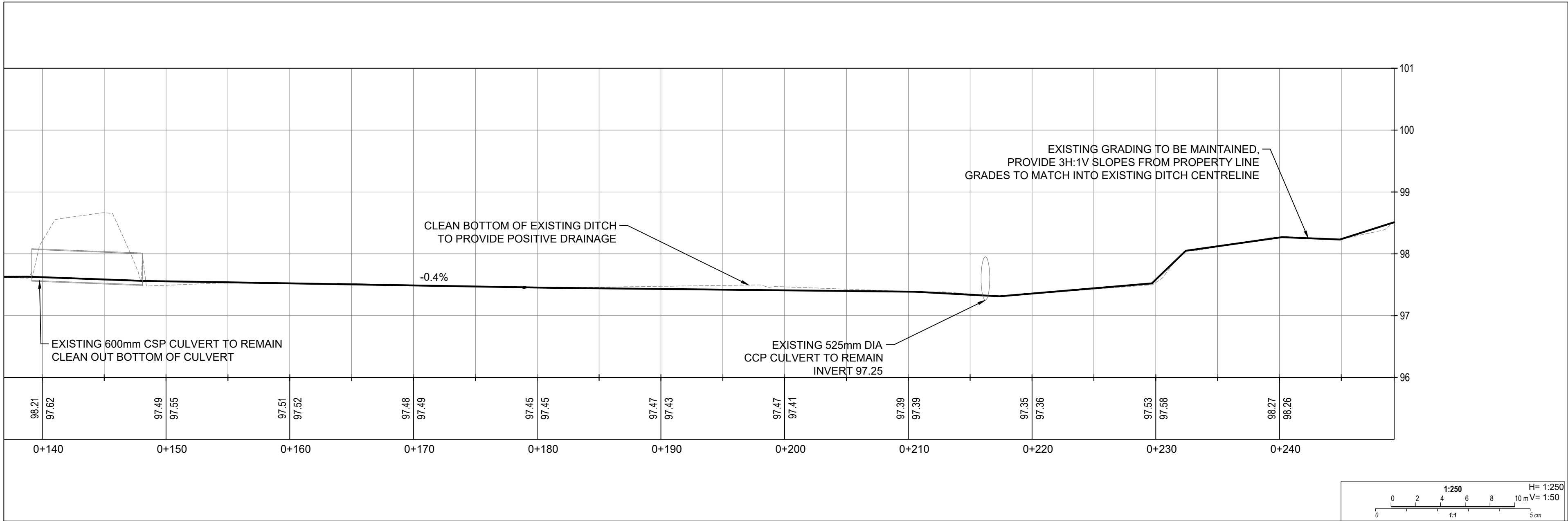
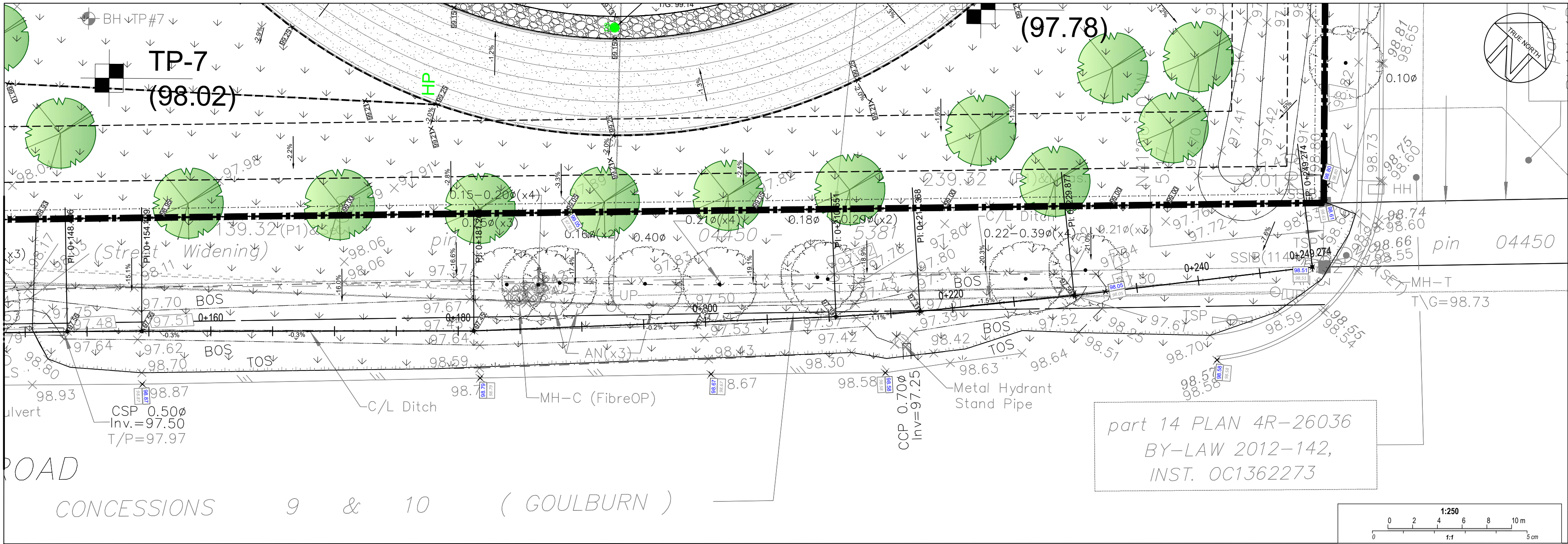


NOT FOR
CONSTRUCTION

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2	ISSUED FOR SITE PLAN CONTROL	2025-10-23
1	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION	2025-09-05
No.	DESCRIPTION	YYYY-MM-DD



drawing title Fernbank Ditch Sta 0+000 to 0+160	
scale As Shown	drawn by R.Ismail
date Sept.2025	checked by Z.Bauman / A.Sammour
project number 24-835	drawing number C5
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
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Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DR.
PEMBROKE, ON, K6A 6W5
T: 613-735-2007
PEMBROKE@JP2G.COM

1150 MORRISON DR., #410
OTTAWA, ON, K2H 6S9
T: 613-826-7600
OTTAWA@JP2G.COM

16 EDWARD ST. S., #211
ARNPRIOR, ON, K7S 3W4
T: 613-826-0780
ARNPRIOR@JP2G.COM

Jp2g PROJECT No.: 24-5050A



NOT FOR
CONSTRUCTION

4	ISSUED FOR SITE PLAN CONTROL R1	2025-12-02
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2	ISSUED FOR SITE PLAN CONTROL	2025-10-23
1	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION	2025-09-05
No.	DESCRIPTION	YYYY-MM-DD

N45 ARCHITECTURE INC.
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tel. 613.224.0095 fax 613.224.9811

project

Fernbank Catholic High School
5431 Fernbank Road, Ottawa, ON K2S 0T7

drawing title

Fernbank Ditch Sta 0+160 to 0+210

scale
As Shown

date
Sept.2025

project number
24-835

drawn by
R.Ismail

checked by
Z.Bauman / A.Sammour

drawing number
C6

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
DO NOT SCALE DRAWINGS.

revision

XXXX-XX-XX

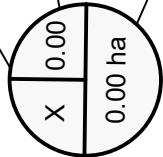
LEGEND

DRAINAGE AREA ID

WEIGHTED RUNOFF
COEFFICIENT

DRAINAGE AREA
HECTARES

DRAINAGE AREA LIMIT



* ALLOWABLE RELEASE RATE = 1499.0 l/s.
REFER TO PRE-CONSULTING MEETING NOTES : PC2025-0021 .

No.	DATE	BY	DESCRIPTION
3	2025-12-02	R.I. / Z.B.	ISSUED FOR SITE PLAN CONTROL R1
2	2025-10-23	R.I. / Z.B.	ISSUED FOR SITE PLAN CONTROL
1	2025-09-05	R.I. / Z.B.	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION
No.	YYYY-MM-DD	BY	DESCRIPTION



Jp2g PROJECT No.: 24-5050A

PROJECT

FERNBANK CATHOLIC HIGH SCHOOL

5431 FERNBANK ROAD, OTTAWA, ON K2S 0T7

DRAWING

FIGURE-1

PRE-DEVELOPMENT DRAINAGE AREAS

CLIENT No.:

DRAFTED: R.ISMAIL

DESIGNED: R.ISMAIL / Z.BAUMAN

REVIEWED: Z.BAUMAN

APPROVED: A.SAMMOUR

NORTH

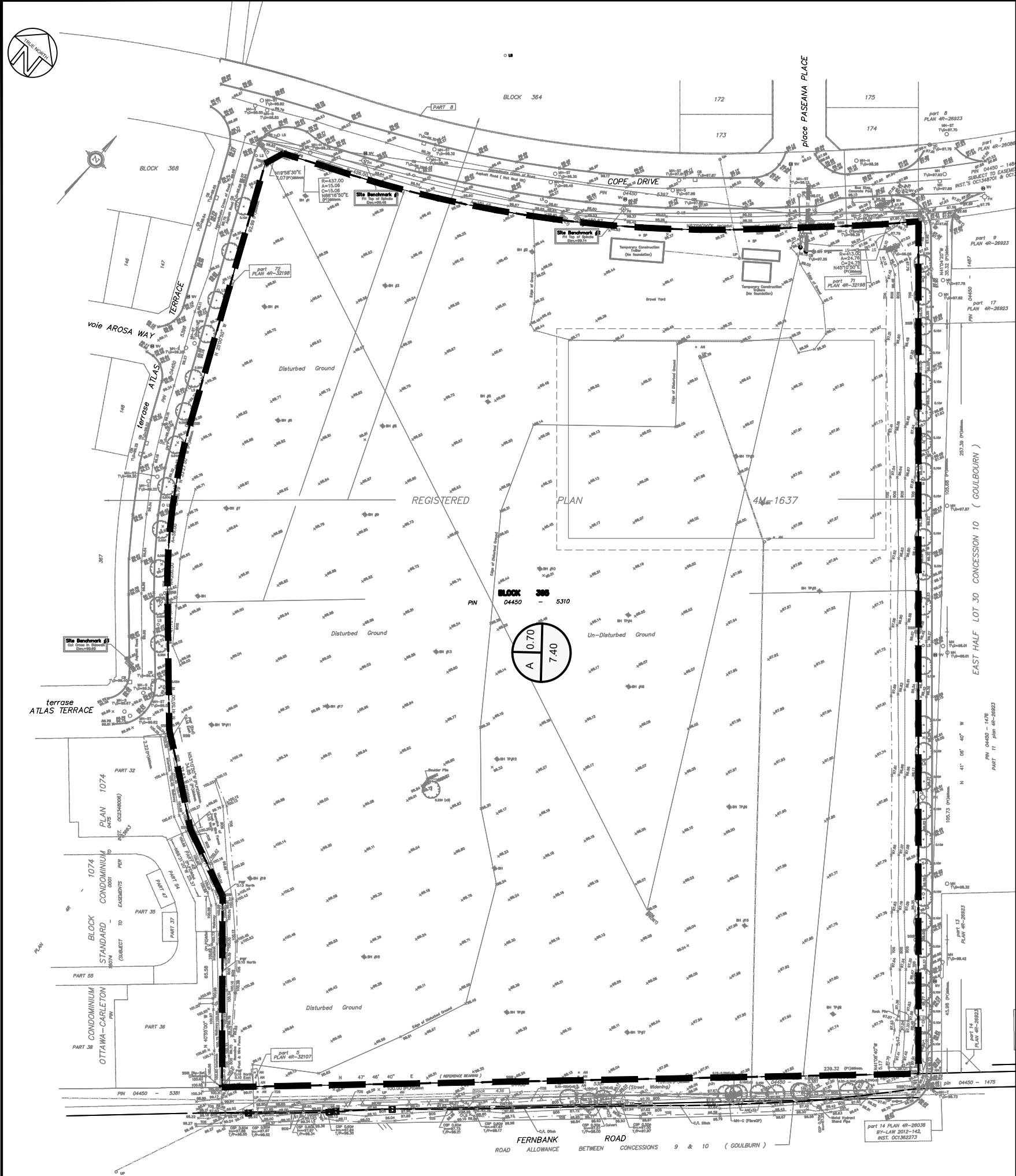


SCALE



SHEET#

FIG.1



terrace
ATLAS TERRACE

voie AROSA WAY

terrace
ATLAS TERRACE

REGISTERED

PLAN

place PASEANA PLACE



FERNBANK ROAD
ROAD ALLOWANCE BETWEEN CONCESSIONS 9 & 10 (GOULBURN)

EAST HALF LOT 30 CONCESSION 10 (GOULBURN)

PIN 04450 - 1475

PIN 04450 - 1475

PIN 04450 - 1475

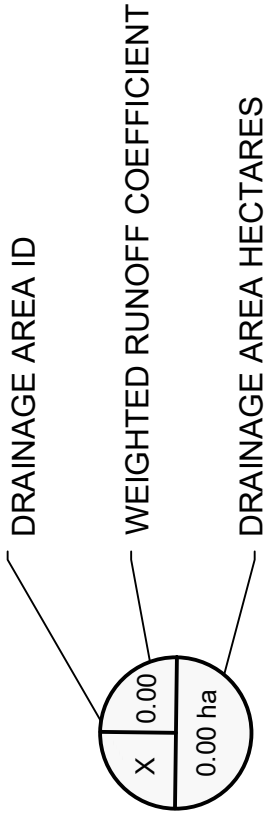
PIN 04450 - 1475

PIN 04450 - 1475

PIN 04450 - 1475

PIN 04450 - 1475

LEGEND



DRAINAGE AREA LIMIT

OVERLAND FLOW ROUTE

NEW BUILDING

NEW LIGHT DUTY ASPHALT

NEW HEAVY DUTY ASPHALT

NEW CONCRETE SIDEWALK

NEW PRECAST PAVERS

NEW EWF / MULCH

NEW CLEAR STONE SUBDRAIN TRENCH

NEW RUBBERIZED ASPHALT TRACK

NEW STONE DUST PATH

NEW GRASS

NEW ROOF DRAIN

3	2025-12-02	R.I / Z.B.	ISSUED FOR SITE PLAN CONTROL R1		
2	2025-10-23	R.I. / Z.B.	ISSUED FOR SITE PLAN CONTROL		
1	2025-09-05	R.I. / Z.B.	ISSUED FOR PHASE 2 PRE-CONSULTATION APPLICATION		
No.	YYYY-MM-DD	BY	DESCRIPTION		



Jp2g PROJECT No.: 24-5050A

PROJECT

FERNBANK CATHOLIC HIGH SCHOOL

5431 FERNBANK ROAD OTTAWA, ON K2S 0T7

FIGURE-2

POST-DEVELOPMENT DRAINAGE AREAS

CLIENT No.:

DRAFTED: R.ISMAIL

DESIGNED: R.ISMAIL / Z.BAUMAN

REVIEWED: Z.BAUMAN

APPROVED: A.SAMMOUR

SCALE



1:1,500

50

FIG. 2

SHEET#

