

CORPORATION

MEP, Lighting, IT and Communications,

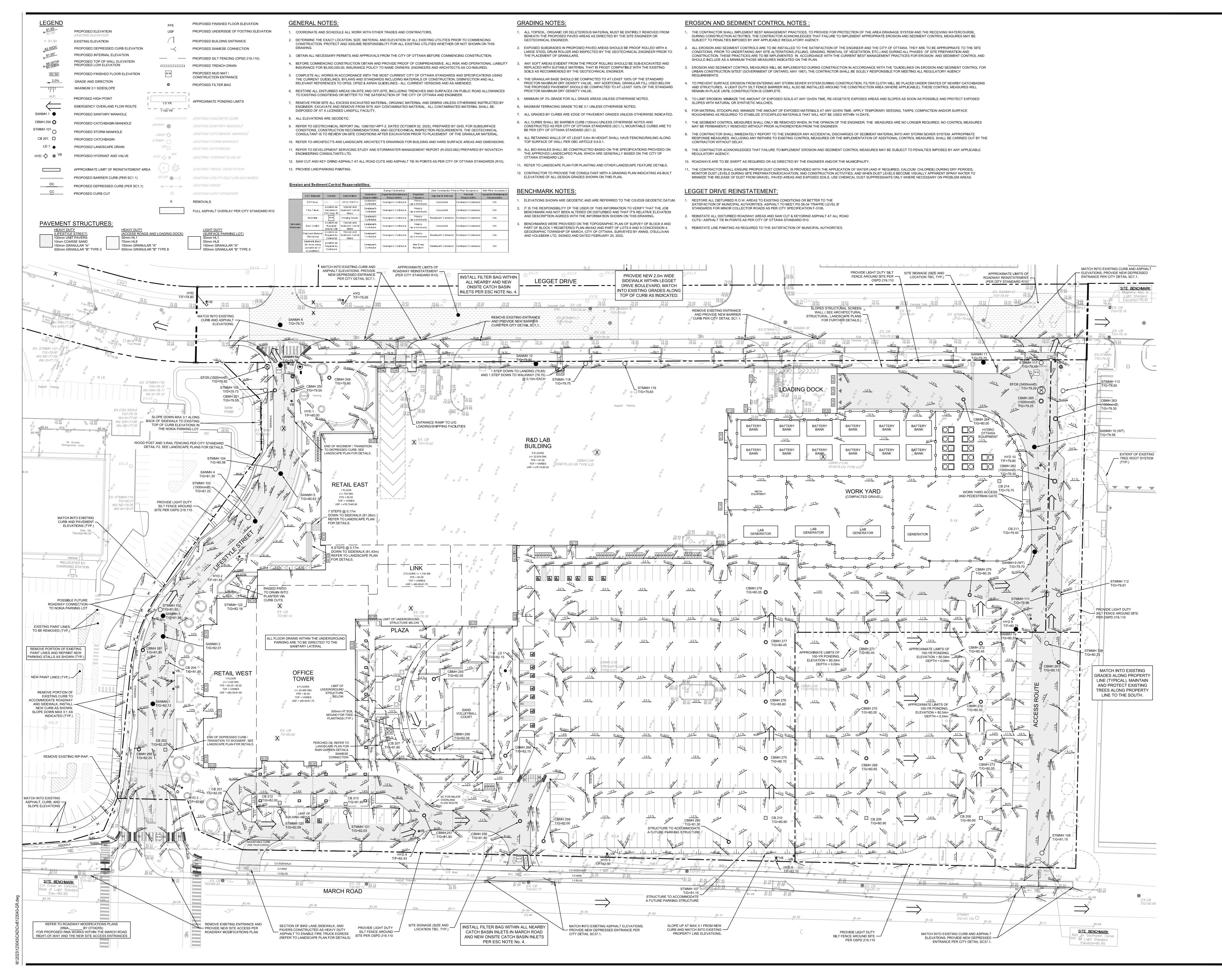
240 Michael Cowpland Drive, Suite 200

ISSUED FOR SITE PLAN CONTROL APPROVAL REVISED PER CITY COMMENTS REVISED PER CITY COMMENTS ISSUED FOR INFORMATION PO REVISED PER CITY COMMENT SURFACE PARKING LOT ADDED REVISED PER CITY COMMENTS REVISED PER CITY COMMENTS



Nokia Ottawa Campus

GENERAL PLAN OF SERVICES



CORPORATION

520, 570 March Rd, Ottawa, ON, K2K 2T6

NOKIA OTTAWA CAMPUS

150 King Street West Toronto, Ontario M5H 1J9 Tel 416.601.3890

Smith + Andersen MEP, Lighting, IT and Communications, Security Consultant 1600 Carling Avenue, Suite 530 Ottawa, Ontario, K1Z 1G3

Tel 613.230.1186

Civil and Planning Consultant 240 Michael Cowpland Drive, Suite 200 Ottawa, ON, K2M 1P6 Tel 613.254.9643



CSW Landscape Architects Limited. Landscape Consultant 319 McRae Avenue, Suite 502



Traffic Consultant 300 – 1331 Clyde Avenue Ottawa Ontario, K2C 3G5 Tel 613.722.4420

△ Date	Description	
SEP 12/24	ISSUED FOR SITE PLAN CONTROL APPROVAL	
NOV 15/24	REVISED PER CITY COMMENTS	
FEB 07/25	REVISED PER CITY COMMENTS	
JUN 25/25	ISSUED FOR INFORMATION P01	
JUL 24/25	ISSUED FOR INFORMATION P02: PARKING	
AUG 06/25	REVISED PER CITY COMMENTS / SURFACE PARKING LOT ADDITION	
OCT 02/25	REVISED PER CITY COMMENTS	
OCT 02/25	ISSUED FOR PERMIT	
OCT 24/25	REVISED PER CITY COMMENTS	

Seal / Signature



Project Name

Nokia Ottawa Campus

Project Number 027.7946.000

Description **GRADING AND EROSION &** SEDIMENT CONTROL PLAN

C200

<u>LEGEND</u> DRAINAGE AREA LIMITS PRE-DEVELOPMENT AREA ID PRE-DEVELOPMENT DRAINAGE AREA (ha) 1:5 YEAR WEIGHTED RUNOFF COEFICIENT EXISTING CONCRETE CURB EXISTING VALVE & VALVE BOX EXISTING SERVICE POST EXISTING HYDRANT EXISTING CATCHBASIN EXISTING CATCHBASIN MH EXISTING UTILITY POLE C/W GUY WIRES

GENERAL NOTES:

DRAWING.

1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

DISPOSED OF AT A LICENSED LANDFILL FACILITY.

8. ALL ELEVATIONS ARE GEODETIC.

12. PROVIDE LINE/PARKING PAINTING.

2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING

3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.

CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS

4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.

5. COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING

RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED.

8. REFER TO GEOTECHNICAL REPORT (No. 12667557-RPT-2, DATED OCTOBER 02, 2025) FOR SUBSURFACE CONDITIONS,

10. REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2023-082) PREPARED BY

REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.

TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.

THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL

6. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES

7. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY

CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO

ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE

9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.

11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

BENCHMARK NOTES:

LIMITS OF DRAINAGE AREA "PRE-A" DO NOT REFLECT THE DRAINAGE AREAS SHOWN ON THE PREVIOUSLY APPROVED STORM DRAINAGE

MARCH ROAD PROPERTY AND CONSTRUCTION OF THE NOKIA PARKING LOT NORTH OF THE SUBJECT SITE. FURTHERMORE, THE

LIMITS SHOWN ON THE POST-DEVELOPMENT SWM PLAN DO NOT REFLECT THE PRE-DEVELOPMENT DRAINAGE AREA LIMITS DUE TO THE PROPOSED PROPERTY LINE ADJUSTMENT AND R.O.W. WIDENING.

EX. CB

TG=80.14

EX. 45.0m - 200mmØ STM @ 0.50%

X

EX. CB

1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

O'SULLIVAN AND VOLEBEKK LTD, SIGNED AND DATED FEBRUARY 20, 2022.

2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

Cluster of Trees

\$220Ø PLUG XR TYPE ICD

Asphalt %⁰

Cluster of Trees

EX. 78.0m - 525mmØ STM @ 0.18%

3. BENCHMARKS WERE PROVIDED ON THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 6 AND PART OF BLOCK 1 REGISTERED PLAN 4M-642 AND PART OF LOTS 8 AND 9 CONCESSION 4, GEOGRAPHIC TOWNSHIP OF MARCH, CITY OF OTTAWA, SURVEYED BY ANNIS,

NOKIA CORPORATION

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Cluster of Trees

161Ø PLUG TYPE ICD^X

CBMH C/W 113Ø PLUG TYPE ICD

△ Date		
NOV 15/24		
FEB 07/25		
AUG 06/25	REVISED PER CITY COMMENTS / SURFACE PARKING LOT ADDED	
OCT 02/25	REVISED PER CITY COMMENTS	

NOT FOR CONSTRUCTION





Nokia Ottawa Campus

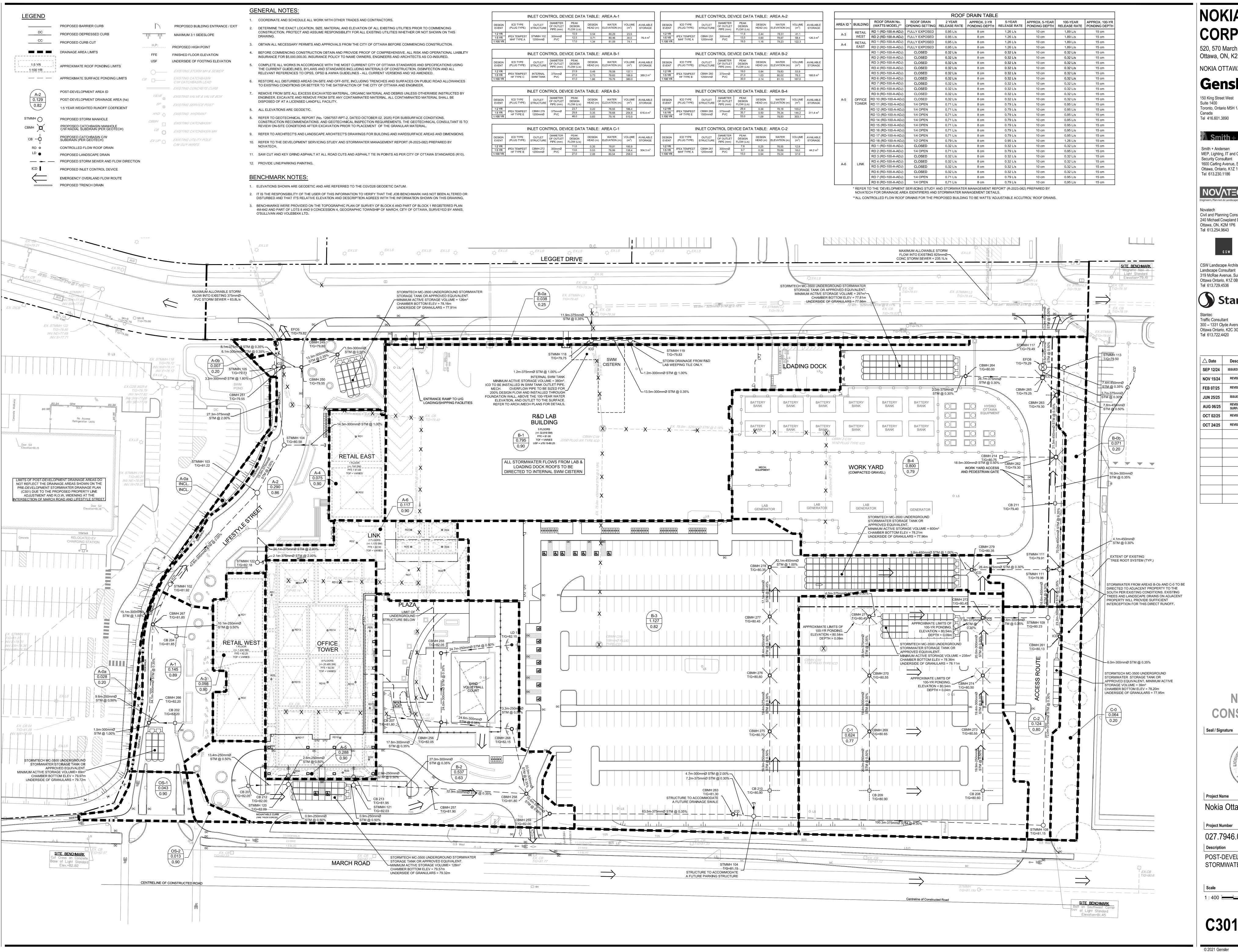
Project Number

027.7946.000

PRE-DEVELOPMENT STORM DRAINAGE PLAN

SITE BENCHMARK
Bolt on Southwest Corne
I'H of Light Standard
Elevation=81.45

C300



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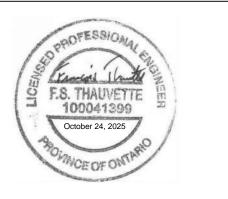


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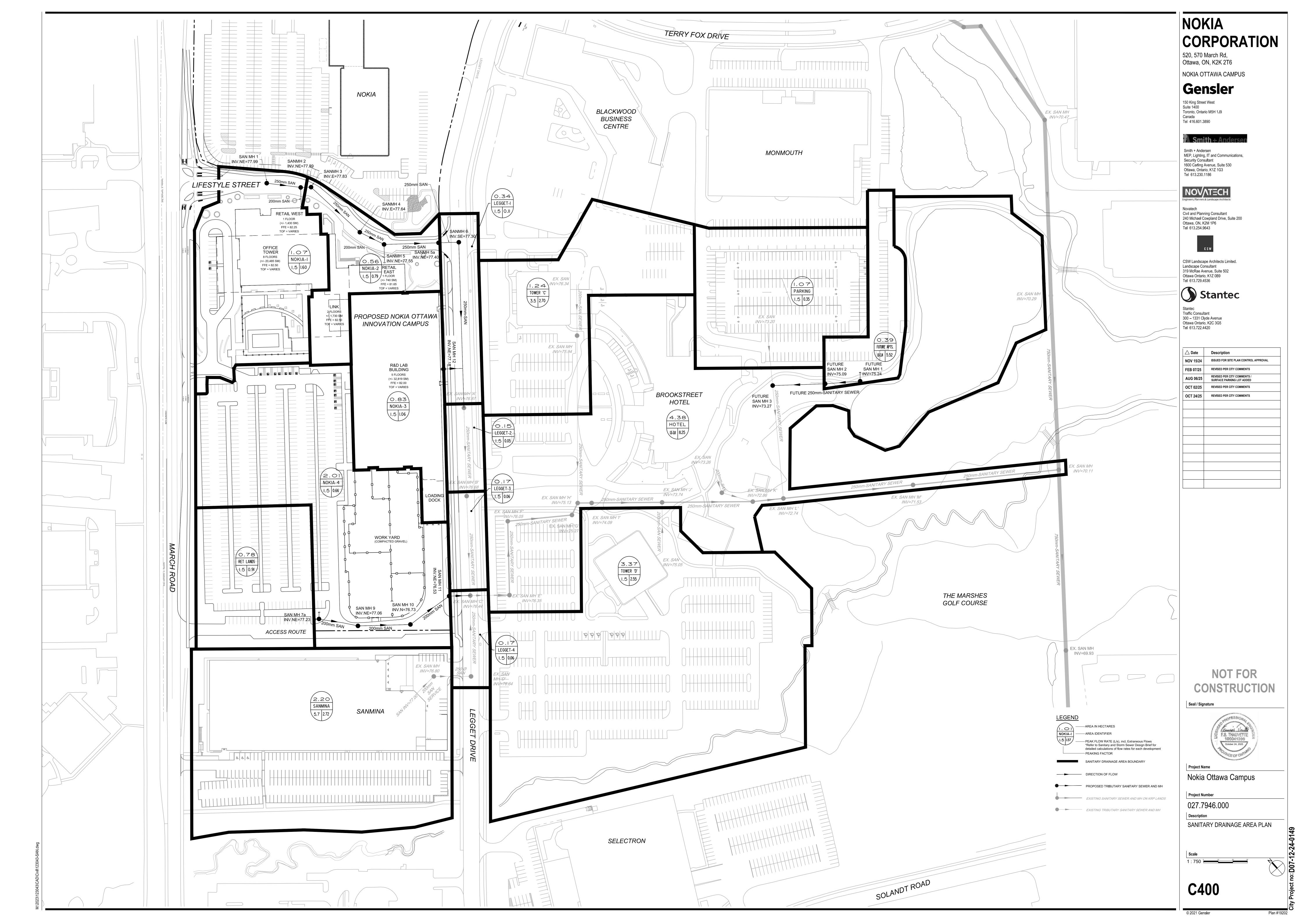
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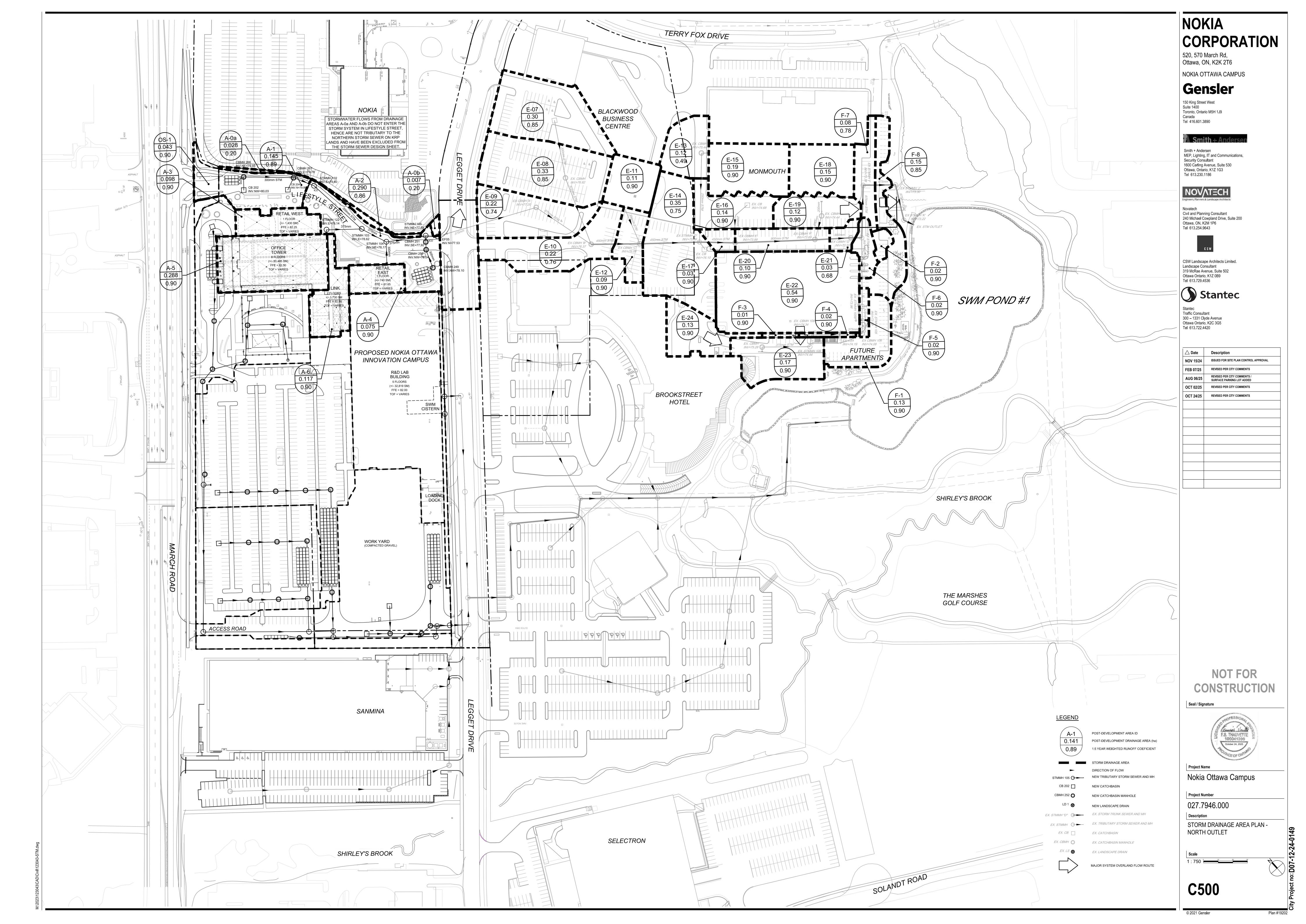


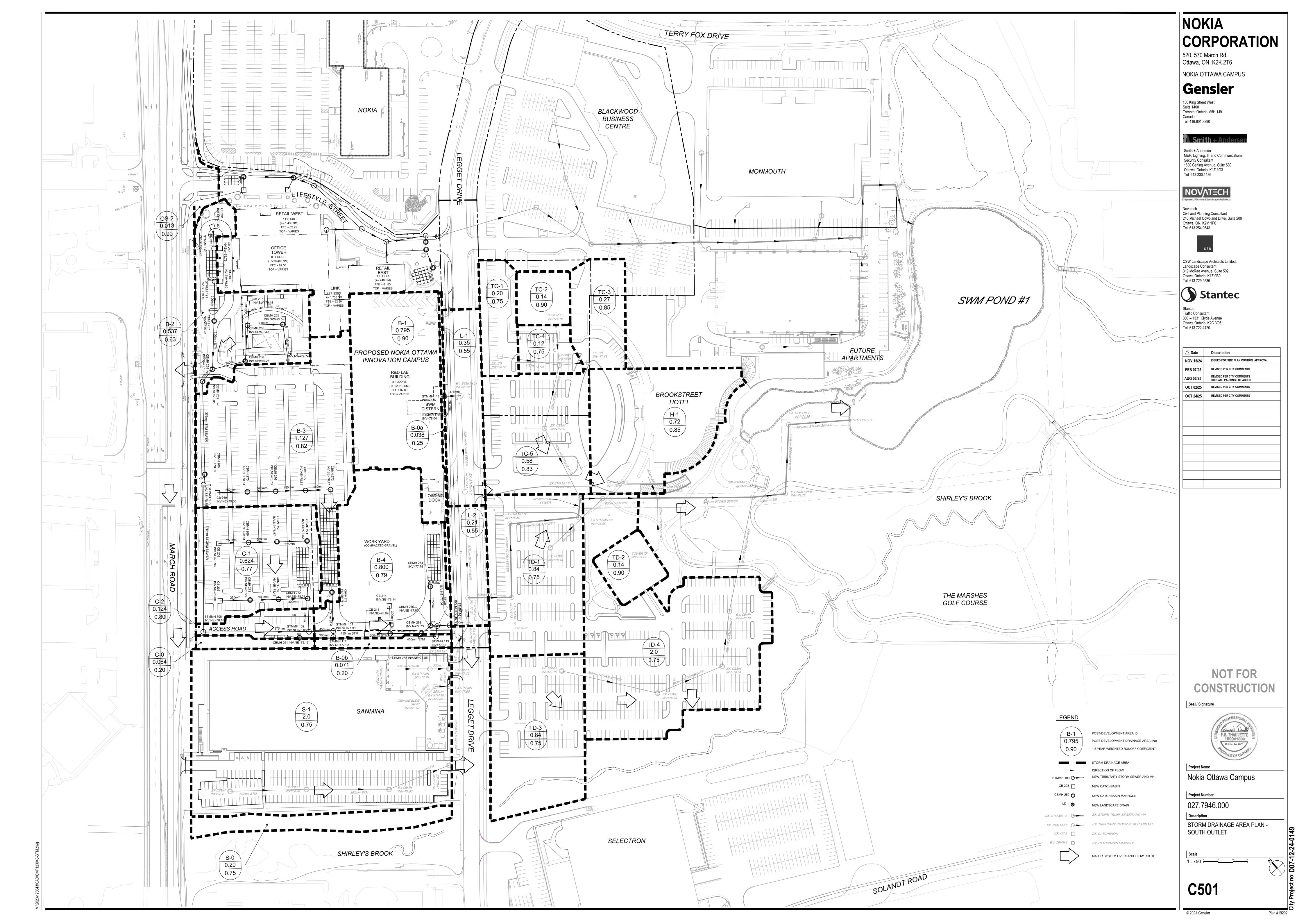
Project Name Nokia Ottawa Campus

Project Number 027.7946.000

POST-DEVELOPMENT STORMWATER MANAGEMENT PLAN







LEGEND SAN MH 1 PROPOSED SANITARY MANHOLE AND SEWER PROPOSED BUILDING ENTRANCE CBMH 250 🔘 EXISTING CONCRETE CURB PROPOSED CATCHBASIN MANHOLE EXISTING SANITARY MANHOLE PROPOSED STORM MANHOLE AND SEWER EXISTING CATCHBASIN MANHOLE CB 200 🔲 PROPOSED CATCHBASIN EXISTING STORM MANHOLE PROPOSED LANDSCAPE DRAIN EXISTING CATCHBASIN THERMAL INSULATION EXISTING HYDRANT & VALVE PROPOSED WATERMAIN / WATER SERVICE PROPOSED HYDRANT AND VALVE EXISTING TREES / VEGETATION PROPOSED VALVE BOX EXISTING UTILITY POLE C/W GUY WIRES PROPOSED REDUCER PROPOSED BARRIER CURB (PER SC1.1)

BENCHMARK NOTES:

- 1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.
- 2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
- 3. BENCHMARKS WERE PROVIDED ON THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 6 AND PART OF BLOCK 1 REGISTERED PLAN 4M-642 AND PART OF LOTS 8 AND 9 CONCESSION 4, GEOGRAPHIC TOWNSHIP OF MARCH, CITY OF OTTAWA, SURVEYED BY ANNIS, O'SULLIVAN AND VOLEBEKK LTD, SIGNED AND DATED FEBRUARY 20, 2022.



X ELEV=79.65

79.50m BASE - SAND

AND GRAVEL

ASPHALTIC CONCRETE

SUBBASE - SILTY SAND AND GRAVEL

TR=78.60±

SANDSTONE, GOOD TO

EXCELLENT QUALITY

-0+219.96 T/WM =77.40

CAP FOR FUTURE

T/WM = 77.40

WATERMAIN EXTENSION /

PVC DR 35 SAN @ 0.35%

22.5° BEND

└0+217.96 T/WM =76,60 SAN. CAP INV.

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Traffic Consultant 300 – 1331 Clyde Avenue Ottawa Ontario, K2C 3G5 Tel 613.722.4420

△ Date	Description	
JAN 24/25	PRELIMINARY WATERMAIN DESIGN ISSUED WITH CLASS C COST ESTIMATE	
FEB 12/25	PRELIMINARY WATERMAIN DESIGN ISSUED WITH REVISED CLASS C COST ESTIMATE	
MAY 28/25	REVISED WATERMAIN DESIGN ISSUED WITH REVISED CLASS C COST ESTIMATE	
AUG 06/25	REVISED PER CITY COMMENTS / SURFACE PARKING LOT ADDED	
OCT 02/25	REVISED PER CITY COMMENTS	
OCT 02/25	ISSUED FOR PERMIT	
OCT 24/25	REVISED PER CITY COMMENTS	





Project Name Nokia Ottawa Campus

Project Number

027.7946.000 PLAN AND PROFILE - LEGGET DRIVE

STATION 0+000 TO 0+247

PROPOSED DEPRESSED CURB (PER SC1.1) PROPOSED CURB CUT ASPHALT OVERLAY PER CITY STANDARD R10 PROPOSED INLET CONTROL DEVICE BOREHOLE LOCATION (REFER TO GEOTECH REPORTS (PROJECT: 103940.007 REV1, DATED SEPTEMBER 26, 2025), PREPARED BY GEMTEC, FOR DETAILS)

REMOVALS

GENERAL NOTES

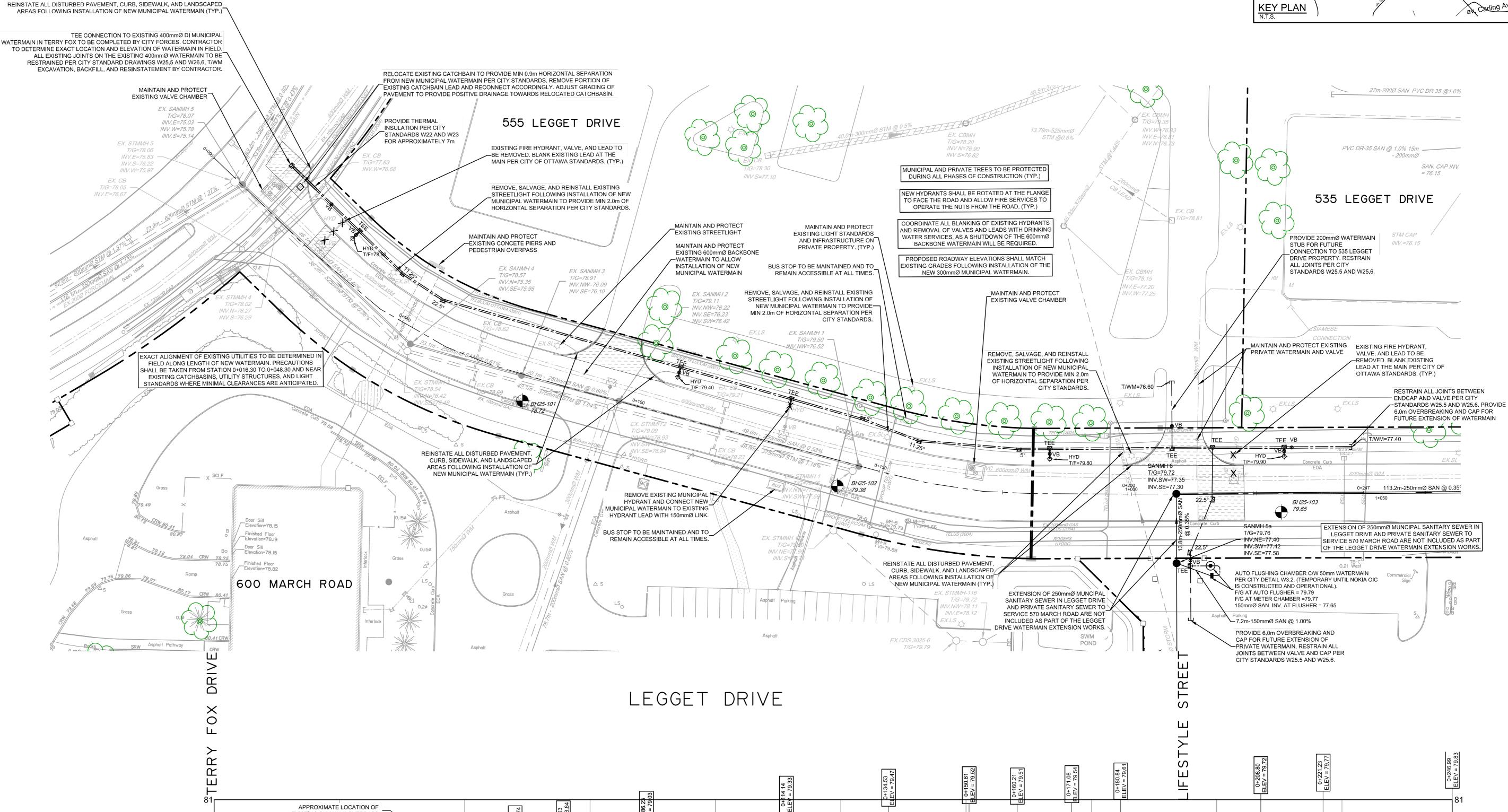
- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION. 4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR
- \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS AND ENGINEERS AS CO-INSURED.
- 5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
- 6. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY. 7. ALL ELEVATIONS ARE GEODETIC.
- 8. REFER TO THE GEOTECHNICAL REPORT, SOIL QUALITY REPORT, AND SUBSURFACE INVESTIGATION REPORT (PROJECT: 103940.007 REV1. DATED SEPTEMBER 26, 2025), PREPARED BY GEMTEC, FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, EXCESS SOIL MANAGEMENT, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO
- PLACEMENT OF THE GRANULAR MATERIAL. 9. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 10. PROVIDE LINE PAINTING.

WATERMAIN NOTES

1. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE CITY OF OTTAWA FORCES. COORDINATE ALL BLANKING OF EXISTING HYDRANTS AND REMOVAL OF VALVES AND LEADS WITH DRINKING

	WATER SERVICES, AS A SHUTDOWN OF THE BACKBONE WATERMAIN WILL BE REQUIRED.							
2.	SPECIFICATIONS:							
	<u>ITEM</u>	SPEC. No.	REFERENCE					
	AUTOMATIC FLUSHING CHAMBER	W3.2	CITY OF OTTAWA					
	WATERMAIN TRENCHING	W17	CITY OF OTTAWA					
	HYDRANT INSTALLATION	W19	CITY OF OTTAWA					
	THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA					
	INSULATION ADJACENT TO OPEN STRUCTURES	W23	CITY OF OTTAWA					
	VALVE BOX ASSEMBLY	W24	CITY OF OTTAWA					
	WATERMAIN	PVC DR 18						
	WATERMAIN CROSSING BELOW SEWER	W25	CITY OF OTTAWA					
	WATERMAIN CROSSING ABOVE SEWER	W25.2	CITY OF OTTAWA					
	RESTRAINING AND RETAINING RINGS	W25.5	CITY OF OTTAWA					
	TABLES OF RESTRAINED LENGTHS	W25.6	CITY OF OTTAWA					

- 3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE, UNLESS OTHERWISE INDICATED.
- 4. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.
- 5. HYDRANTS SHALL BE ROTATED AT THE FLANGE TO FACE THE ROAD AND ALLOW FIRE SERVICES TO OPERATE THE NUTS. 6. ALL DUCTILE IRON PIPES AND FITTINGS SHALL BE PROTECTED AGAINST POTENTIAL CORROSION PER GEOTECHNICAL RECOMMENDATIONS DUE TO THE CORROSIVE NATURE OF THE SUBGRADE AND GROUNDWATER.
- 7. MODERATE SULPHATE RESISTANCE (MS) CEMENT SHALL BE USED FOR BELOW GRADE CONCRETE STRUCTURES PER GEOTECHNICAL RECOMMENDATIONS.
- 8. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A PLAN AND PROFILE DRAWING INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.



EXISTING SKYWALK OVERPASS BH25-102 ELEV=79.38 ASPHALTIC CONCRETE BASE - SAND AND GRAVEL BH25-101 ELEV=78.72 TR=78.90± SUBBASE - SAND ASPHALTIC CONCRETE AND GRAVEL BASE - GRAVEL AND SAND *⋒ AND GRAVEL* AUGER REFUSAL ON § 78.10m INFERRED BEDROCK CROSS BELOW EX. STM PROVIDING ±0.76m FILL - GRAVELLY SAND CLEARANCE EXCEEDING THE MINIMUM *₹ FRACTURED* REQUIREMENT\$ OF CITY STANDARD W25.-SANDSTONE/BOULDERS TR=77.20± **1** 300mmØ WM 150mmØ WATERMAIN LINK TEE NEW 300mmØ PVC DR18 200mmØ WATER SERVICE TEE CONNECTION TO NEW MUNICIPAL LOCAL MUNICIPAL WATERMAIN (TYP.) CONNECTION TO NEW MUNICIPAL WATERMAIN WITH 150X300X300 TEE— WATERMAIN WITH 200X300X300 TEE-SANDSTONE, GOOD TO 0+129.62 T/WM =77.02 EXCELLENT QUALITY END OF BOREHOLE NEW 300mmØ MUNICIPAL WATERMAIN TEE CONNECTION TO EX.400mmØ CROSS BELOW EXISTING 200mmØ WATER SERVICE PROVIDING TO MUNICIPAL WATERMAIN 0.25m CLEARANCE (MIN) PER CITY STANDARD W25.5__ 0+012.33 T/WM =75.81 300mmØ PRIVATE WATERMAIN TEE CONNECTION TO NEW MUNICIPAL WATERMAIN WITH 300X300X300 TEE. UNSHIRNKABLE BACKFILL SHALL BE USED AT SEWER CROSSINGS PER CITY STANDARD W25.

36.19m - 525mmØ STM 42.11m - 375mmØ STM 6 12 15 525mmØ STM 12 12 @ 0.36% @ 1.04% = S = Z = Q 0.42% = S = > 46.14m - 250mmØ SAN @ 0.46% @ 0.60% @ 0.61%

PROPOSED ELEVATION

TOP OF WM

ELEVATION

SEWER

INVERTS

SANITARY

SEWER

INVERTS

EXISTING ELEVATION

CHAINAGE S

49.86m - 375mmØ STM

@ 1.18%

49.59m - 250mmØ SAN

@ 0.58%

EX. 200mmØ WM

/NV=76.85± EX. 375mmØ STM

/NV=77.45±

0+202.23 ____T/WM =76.69

0+208.88

T/WM =76.63

T/WM =76.60

T/WM =76.60

PROPOSED BUILDING ENTRANCE PROPOSED SANITARY MANHOLE AND SEWER CBMH 250 🔘 EXISTING CONCRETE CURB PROPOSED CATCHBASIN MANHOLE EXISTING SANITARY MANHOLE PROPOSED STORM MANHOLE AND SEWER EXISTING CATCHBASIN MANHOLE CB 200 🔲 PROPOSED CATCHBASIN EXISTING STORM MANHOLE PROPOSED LANDSCAPE DRAIN EXISTING CATCHBASIN THERMAL INSULATION FOR SHALLOW SEWERS EXISTING HYDRANT & VALVE PROPOSED WATERMAIN / WATER SERVICE PROPOSED HYDRANT AND VALVE EXISTING TREES / VEGETATION PROPOSED VALVE BOX EXISTING UTILITY POLE C/W GUY WIRES VC ⊗ PROPOSED VALVE CHAMBER RED 🔻 PROPOSED REDUCER

REMOVALS

FULL ASPHALT OVERLAY PER CITY STANDARD R10

BOREHOLE LOCATION (REFER TO GEOTECH REPORT

(PROJECT: 103940.009 REV1, DATED SEPTEMBER 26,

ONE TRAVEL LANE TO BE MAINTAINED AT ALL TIMES

ON LEGGET DRIVE DURING CONSTRUCTION. ALL

TRAVEL LANES TO BE MAINTAINED DURING NON-WORKING HOURS. PEDESTRIAN ACCESS TO BE

MAINTAINED AT ALL TIMES, PEDESTRIAN DETOURS

TO BE IMPLEMENTED IF NECESSARY.

INV.SW=77.42 INV.NW=78.10 INV.SE=77.58 INV.SW=78.15

BH25-103 ELEV=79.65

79.50m AND GRAVEL

CLAYEY SILT

END OF BOREHOLE

ASPHALTIC CONCRETE BASE - SAND

SUBBASE - SILTY 79.39m

SAND AND GRAVEL

SANDSTONE, GOOD TO

1+020.30 *EXCELLENT QUALITY*T/WM = 77.17 *76.14m*

T/WM =77.17

PROPOSED ELEVATION S

TOP OF WM ELEVATION

STORM SEWER

INVERTS

SANITARY

SEWER

INVERTS

EXISTING ELEVATION |

CHAINAGE 8

_ *78.74m* ⊗

79 TR=78.90±

2025), PREPARED BY GEMTEC, FOR DETAILS)

PROPOSED BARRIER CURB (PER SC1.1)

PROPOSED INLET CONTROL DEVICE

PROPOSED CURB CUT

PROPOSED DEPRESSED CURB (PER SC1.1)

T/WM=76.60

_T/G=79.72

0+200 1+000 INV SE=77.30

6.1m-300mmØ STM @ 0.35%

STMMH 105

T/G=79.73

INV.NE=77.59

INV.SE=77.86

INV.SW=77.62

mØ STM @ 1.80%

INV SW=77.35

GENERAL NOTES:

PROVIDE FULL ROAD WIDTH ASPHALT OVERLAY,

TO AMENDED ROAD ACTIVITY BY-LAW 2003-445.

ELEV=79.61

78.87m 🥁

79.50m BASE - GRAVEL AND SAND

₩ 79.26m

ASPHALTIC CONCRETE

SUBBASE - SILTY

GRAVELLY SAND

ON INFERRED

AUGER REFUSAL

NEW 250mmØ SAN

· · · · · · · · · 600mmø wy

113.20m - 250mmØ PVC DR 35 SAN @ 0.35%

INCLUDING INTERSECTION OF LEGGET & PRIVATE

ENTRANCES, PER CITY OF OTTAWA DETAIL R10. REFER

STANDARDS AND INFRASTRUCTURE IN THE LEGGET DRIVE ROW.

SANMH 12 T/G=79.80

INV.NE=77.18

SAN @ 1.00%

SAN INV.=77.22 -

CONNECT TO EXISTING SANMH 'A' AND

ADJUST BENCHING ACCORDINGLY. EXTEND SAN SEWER NORTH ALONG LEGGET DR. EXCAVATION, BACKFILL AND

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
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4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR

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FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, EXCESS SOIL MANAGEMENT, AND GEOTECHNICAL INSPECTION REQUIREMENTS.

MUNICIPAL AND PRIVATE TREES TO BE PROTECTED

DURING ALL PHASES OF CONSTRUCTION (TYP.)

INV.SW=77.83±

STMMH 118

INV.NE=77.87 -

INV.SE=78.00

INV.SW=77.90

STM INV.=77.91 -

1.2m-375mmØ STM @ 1.00% —

TR=78.20±

CONNECT TO EXISTING SANMH 'A'

AND ADJUST BENCHING ACCORDINGLY.

T/G=79.75

LEGGET DRIVE LEGGET LEGGET DRIVE LEGGET LEGGET LEGGET LEGGET LEGGET DRIVE LEGGET LEGGE

STMMH 119

INV.NW=78.05

S INV.SW=78.10

STM INV.=78.11

1.2m-300mmØ STM @ 1.00%

R&D LAB WEEPING TILE ONLY

13.5m-300mmØ STM @ 0.35%

ind— STORM DRAINAGE FROM

T/G=79.83

ELEV=79.42

₹ 78.74m

BASE - SAND 79.32m

AND GRAVEL

79.10m 🛞

ASPHALTIC CONCRETE

AUGER REFUSAL AT 77.97m

SUBBASE - SAND AND GRAVEL

FILL - CLAYEY SILTY SAND AND GRAVEL

65.60m - 525mmØ STM

@ 0.18%

60.16m - 250mmØ SAN

@ 0.30%

250mmØ SAN

T/WM =76.33

TR=78.10±

SWM

CISTERN

- 7. ALL ELEVATIONS ARE GEODETIC. 8. REFER TO THE SOIL QUALITY REPORT AND GEOTECHNICAL REPORT (PROJECT: 103940.009 REV1, DATED SEPTEMBER 26, 2025). PREPARED BY GEMTEC.
- THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL. 9. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 10. PROVIDE LINE PAINTING.

SEWER NOTES:

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'.

2. SPECIFICATIONS: REFERENCE SANITARY MANHOLE (1200mmØ) SANITARY MH FRAME & COVER CITY OF OTTAWA INSULATION FOR SHALLOW SEWERS CITY OF OTTAWA SANITARY SEWER PVC DR 35

3. INSULATE ALL NEW PIPES THAT HAVE LESS THAN 1.8m COVER WITH HI-40 INSULATION PER CITY OF OTTAWA STANDARD DETAIL S35, PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.

- 4. ALL MANHOLES SHALL BE 1200mmØ UNLESS OTHERWISE SPECIFIED. 5. ALL SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER ARE TO BE CONSTRUCTED IN SEPARATE TRENCHES MAINTAINING A CLEAR HORIZONTAL SEPARATION DISTANCE OF 2.5 METRES, AS PER MECP F-6-1 STANDARDS.
- 6. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED. 7. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND
- DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED. 8. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS. 9. ALL DUCTILE IRON PIPES AND FITTINGS SHALL BE PROTECTED AGAINST POTENTIAL CORROSION PER GEOTECHNICAL RECOMMENDATIONS DUE TO THE CORROSIVE NATURE OF THE SUBGRADE AND GROUNDWATER.
- 10. MODERATE SULPHATE RESISTANCE (MS) CEMENT SHALL BE USED FOR BELOW GRADE CONCRETE STRUCTURES PER GEOTECHNICAL
- 11. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- 12. CONTRACTOR TO PROVIDE THE CONSULTANT WITH AN A PLAN AND PROFILE DRAWING INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, AND ANY ALIGNMENT CHANGES, ETC.

/NV. NW=76.69

BENCHMARK NOTES:

INV SW=76.46

INV.SW=77.49

1+266.29

: 18.29m - 600mmØ STM

@ 0.33%

T/WM =76.08

STM @ 0.30%

T/G=79.29

INV.NE=77.54

INV.SW=77.64

NV.SE=77.59(X)

(1500mm(Ø) T/G=79.25

STMMH 113

7.4m-450mmØ

STM @ 0.35%

250mmØ SAN

1+285.95 /

26.23m - 600mmØ STM

55.06m - 250mmØ SAN

@ 0.33%

@ 0.46%

INV.S=76.56

525mmØ STM

250mmØ SAN

1+209.48 T/WM =76.27

72.39m - 525mmØ STM

@ 0.17%

68.00m - 250mmØ SAN

@ 0.29%

TR=77.55±

- 1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM. 2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATION AND
- DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING. 3. BENCHMARKS WERE PROVIDED ON THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 6 AND PART OF BLOCK 1 REGISTERED PLAN 4M-642 AND PART OF LOTS 8 AND 9 CONCESSION 4, GEOGRAPHIC TOWNSHIP OF MARCH, CITY OF OTTAWA, SURVEYED BY ANNIS, O'SULLIVAN AND VOLEBEKK LTD, SIGNED AND DATED FEBRUARY 20, 2022.



520, 570 March Rd, Ottawa, ON, K2K 2T6

NOKIA OTTAWA CAMPUS

150 King Street West Suite 1400 Toronto, Ontario M5H 1J9 Tel 416.601.3890

Smith + Andersen MEP, Lighting, IT and Communications, Security Consultant 1600 Carling Avenue, Suite 530 Ottawa, Ontario, K1Z 1G3 Tel 613.230.1186

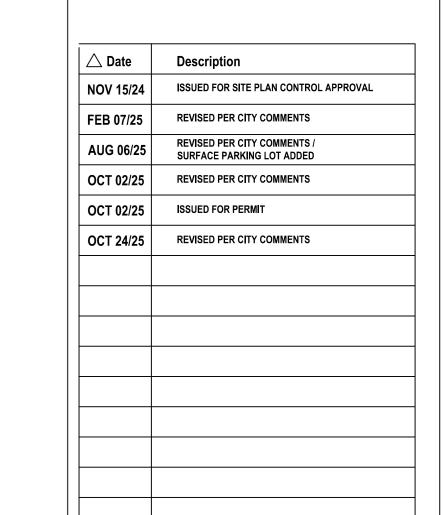
Civil and Planning Consultant 240 Michael Cowpland Drive, Suite 200 Ottawa, ON, K2M 1P6 Tel 613.254.9643



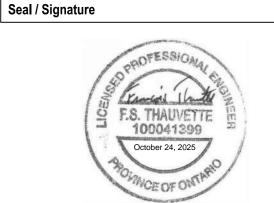
CSW Landscape Architects Limited. Landscape Consultant 319 McRae Avenue, Suite 502 Ottawa Ontario, K1Z 0B9 Tel 613.729.4536



Traffic Consultant 300 – 1331 Clyde Avenue Ottawa Ontario, K2C 3G5 Tel 613.722.4420



CONSTRUCTION



Project Name Nokia Ottawa Campus

Project Number

027.7946.000 PLAN AND PROFILE - LEGGET DRIVE

STATION 1+000 TO 1+310

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REFER TO DRAWING C-100 FOR ADDITIONAL NOTES