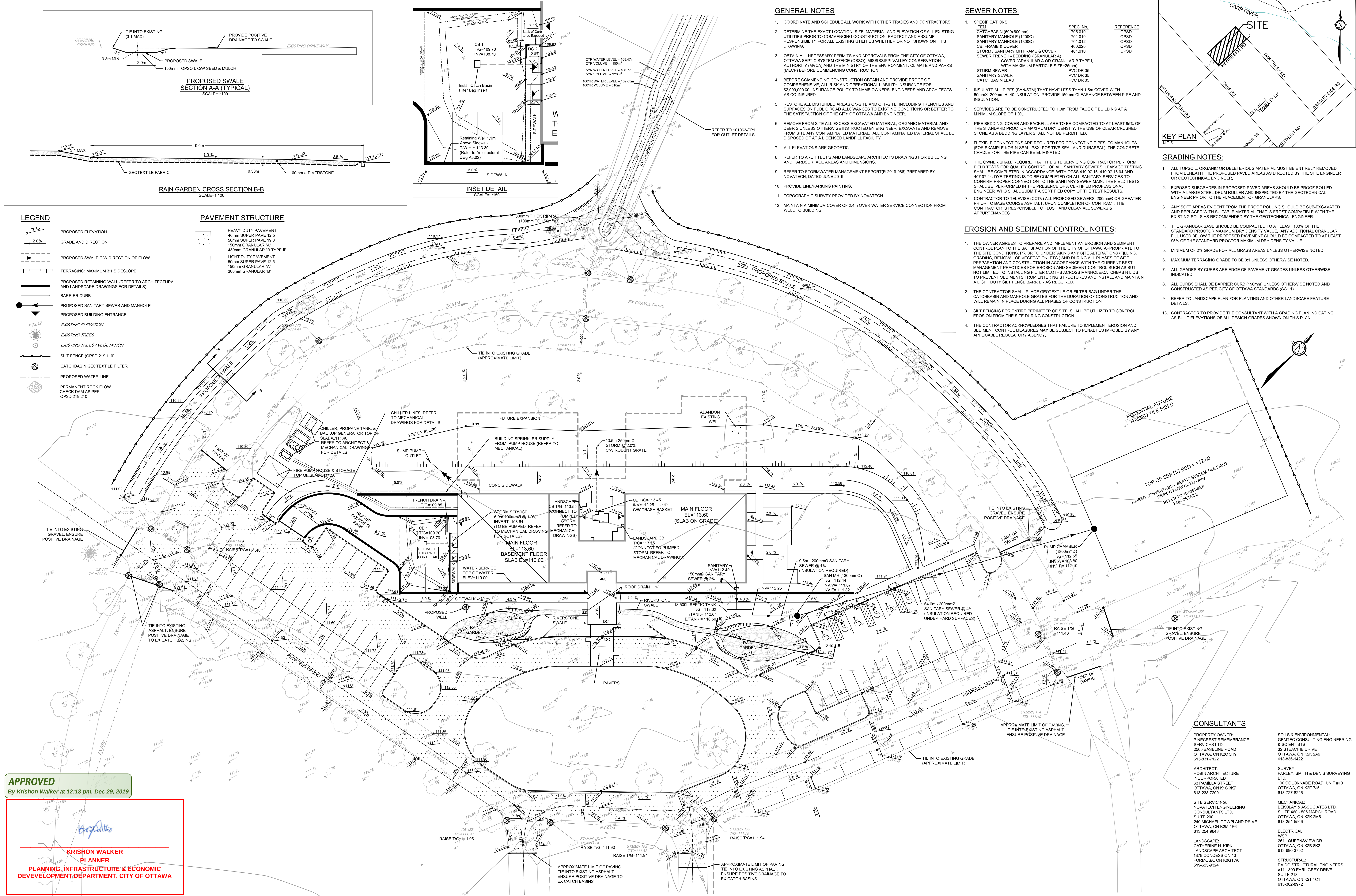
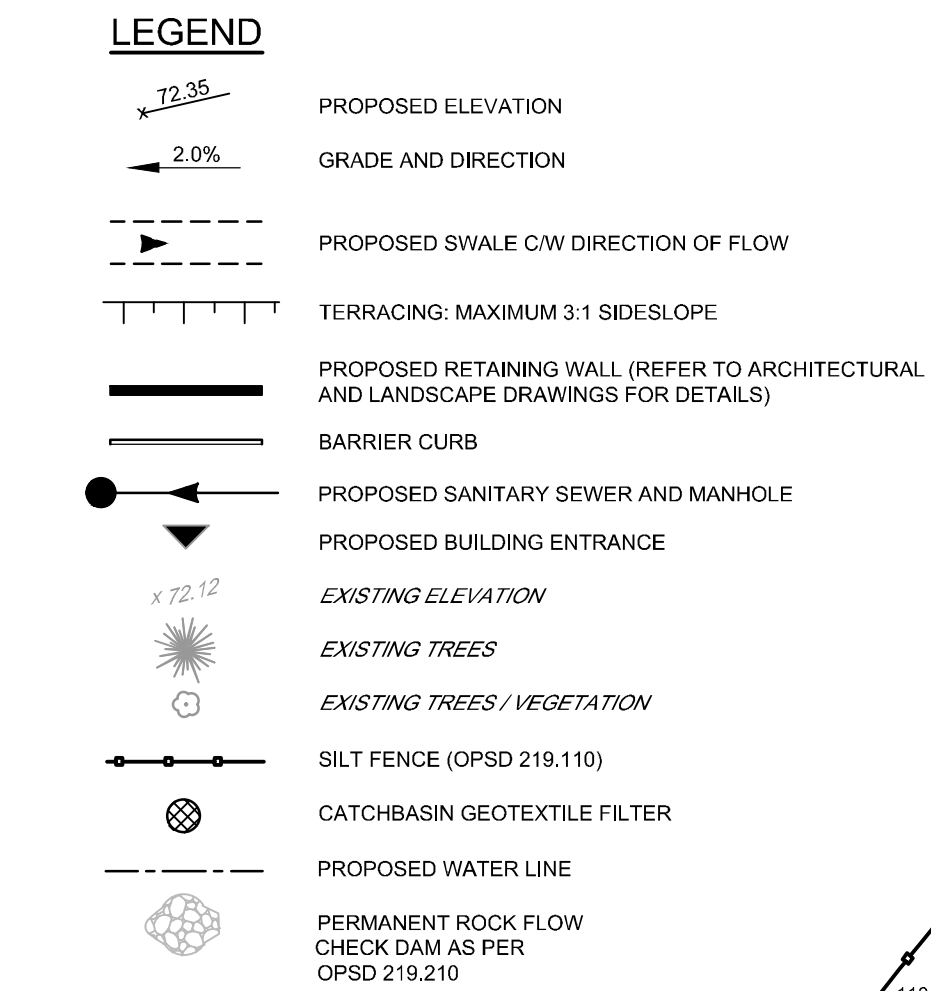
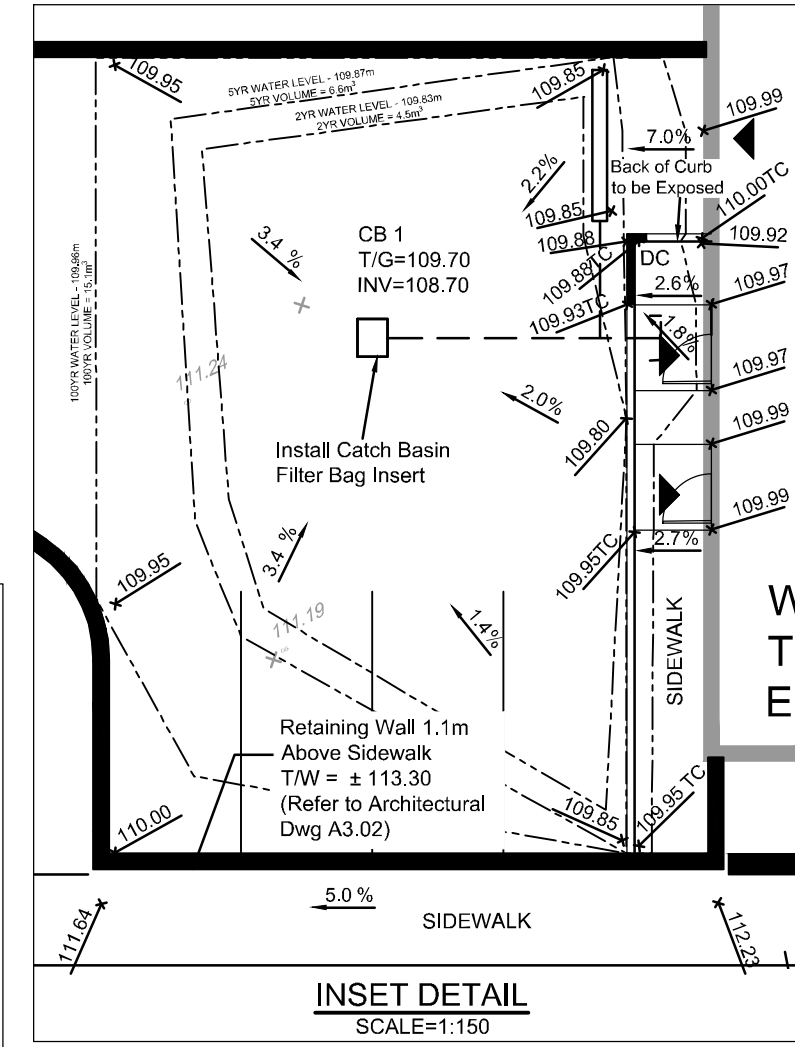
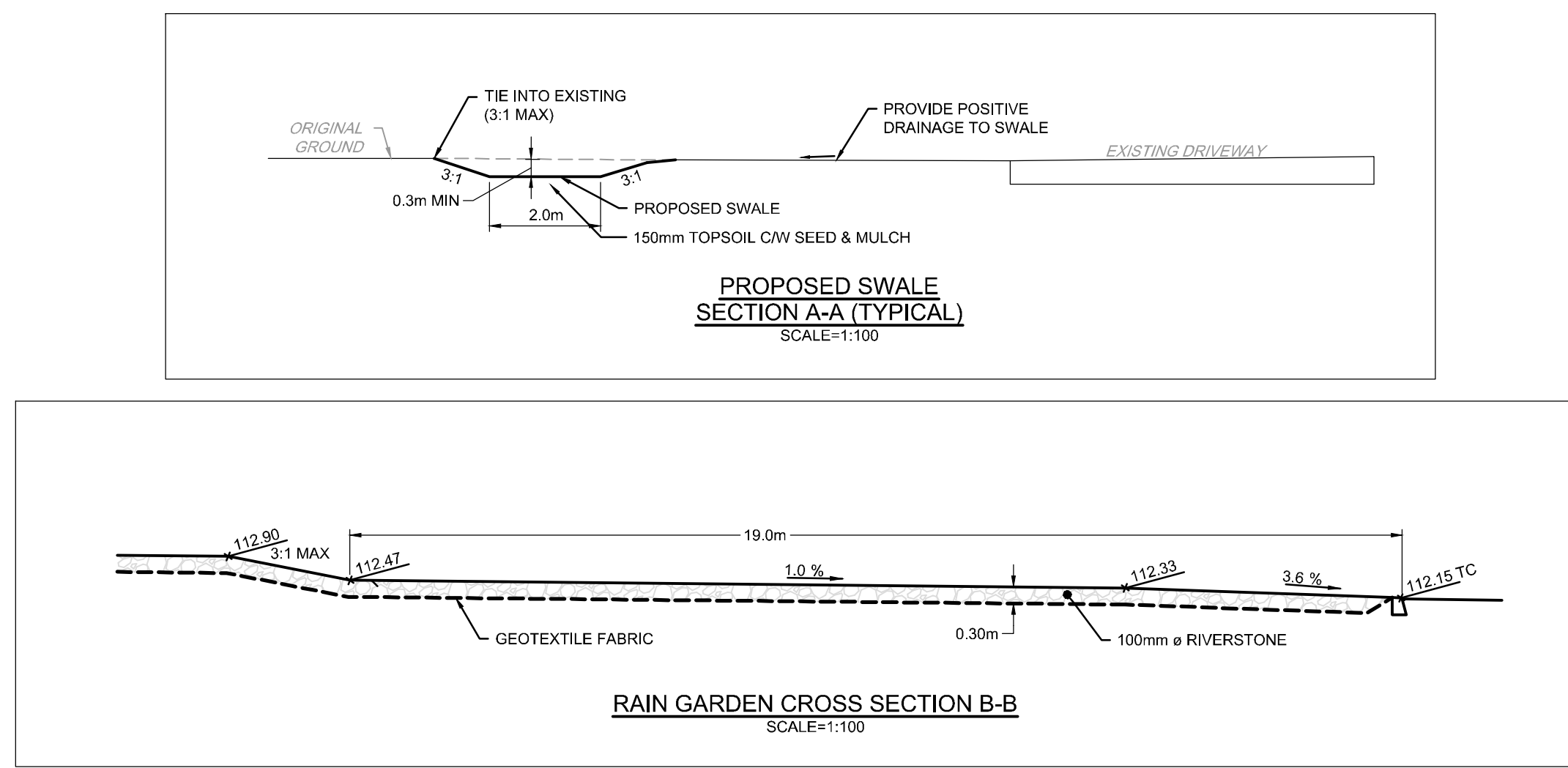




APPROVED
By Krishon Walker at 12:18 pm, Dec 29, 2019

KRISHON WALKER
PLANNER
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS,
WATERMANS, SEWERS AND OTHER
UNDERGROUND AND OVERGROUND UTILITIES AND
STRUCTURES IS NOT NECESSARILY SHOWN ON
THE CONTRACT DRAWINGS, AND WHERE SHOWN,
THE ACCURACY OF THE POSITION OF SUCH
UTILITIES AND STRUCTURES IS NOT GUARANTEED.
BEFORE STARTING WORK, DETERMINE THE EXACT
LOCATION OF ALL SUCH UTILITIES AND
STRUCTURES AND ASSUME ALL LIABILITY FOR
DAMAGE TO THEM.

GENERAL NOTES

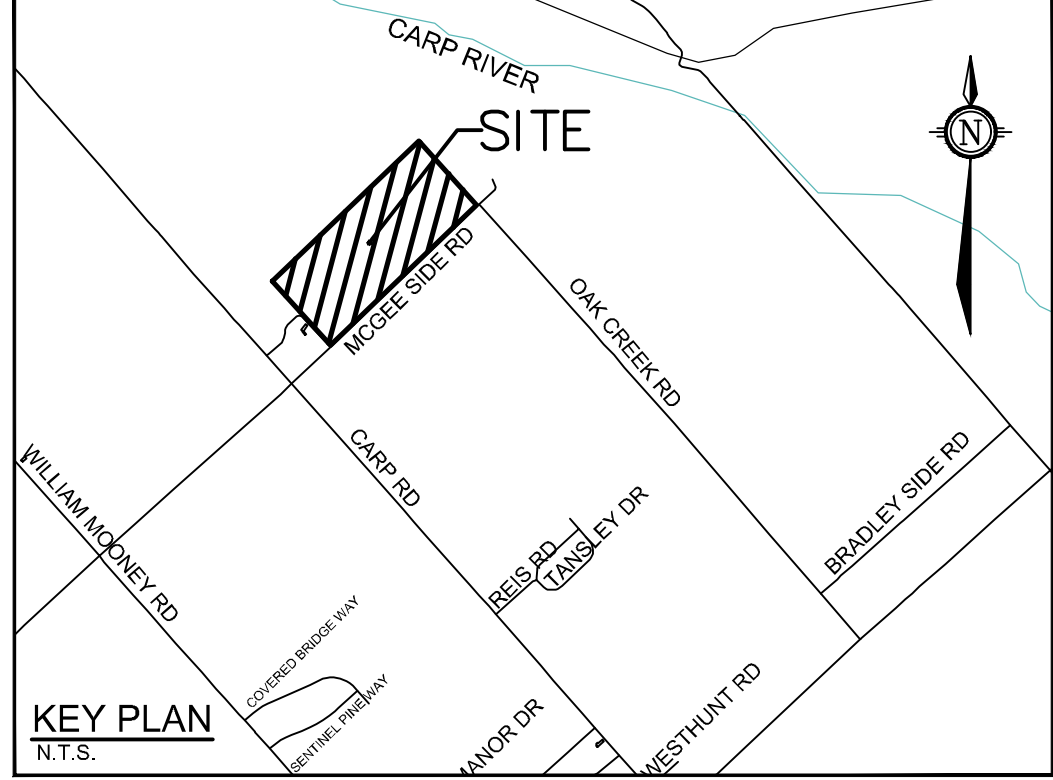
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA, OTTAWA SEPTIC SYSTEM OFFICE (OSSO), MISSISSIPPI VALLEY CONSERVATION AUTHORITY (MVCA) AND THE MINISTRY OF THE ENVIRONMENT, CLIMATE AND PARKS (MECP) BEFORE COMMENCING CONSTRUCTION.
- BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00, INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- 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.
- 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.
- ALL ELEVATIONS ARE GEODETIC.
- REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARDWARE SURFACE AREAS AND DIMENSIONS.
- REFER TO STORMWATER MANAGEMENT REPORT (R-2019-086) PREPARED BY NOVATECH, DATED JUNE 2019.
- PROVIDE LINE/PARKING PAINTING.
- TOPOGRAPHIC SURVEY PROVIDED BY NOVATECH.
- MAINTAIN A MINIMUM COVER OF 2.4m OVER WATER SERVICE CONNECTION FROM WELL TO BUILDING.

SEWER NOTES:

- SPECIFICATIONS:
ITEM: CATCHBASIN (600x600mm)
SPEC. No.: 705.010
REFERENCE: OPSD
ITEM: SANITARY MANHOLE (1200)
SPEC. No.: 701.010
REFERENCE: OPSD
ITEM: SANITARY MANHOLE (1800)
SPEC. No.: 701.012
REFERENCE: OPSD
ITEM: CB FRAME & COVER
SPEC. No.: 400.020
REFERENCE: OPSD
ITEM: STORM / SANITARY MH FRAME & COVER
SPEC. No.: 401.010
REFERENCE: OPSD
ITEM: STORM TRENCH - BEDDING (GRANULAR A)
SPEC. No.: 400.020
REFERENCE: OPSD
ITEM: COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)
SPEC. No.: 401.010
REFERENCE: OPSD
ITEM: SANITARY MH LEAD
SPEC. No.: PVC DR 35
REFERENCE: OPSD
ITEM: CATCHBASIN LEAD
SPEC. No.: PVC DR 35
REFERENCE: OPSD
- INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH 50mmx1200mm H-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
- SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
- PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 85% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KORS-N-SEAL, PSY POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- 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 OPSD 410.07.18, 410.07.18.04 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.
- CONTRACTOR TO TELEVISION (CCTV) ALL PROPOSED SEWERS, 200mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

EROSION AND SEDIMENT CONTROL NOTES:

- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS. PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER STRIPS, SILT FENCING, SILT BARRIERS, SILT FENCE FENCING FOR ENTIRE PERIMETER OF SITE. SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PLACE GEOTEXTILE OR FILTER BAG UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- SILT FENCING FOR ENTIRE PERIMETER OF SITE. SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.



GRADING NOTES:

- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
- EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
- ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS PROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVED AREAS SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- ALL GRASSES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
- REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

CONSULTANTS

PROPERTY OWNER:
PNECREST REMEMBRANCE
SERVICES LTD.
2500 BASILINE ROAD
OTTAWA, ON K2C 3H9
613-831-7122

ARCHITECT:
HOBIN ARCHITECTURE
INCORPORATED
63 PAMILLA STREET
OTTAWA, ON K1S 3K7
613-228-7200

SITE SERVICING:
NOVATECH ENGINEERING
CONSULTANTS LTD.
SUITE 200
240 MICHAEL COWPLAND DRIVE
OTTAWA, ON K2M 1P6
613-254-9643

LANDSCAPE:
CATHERINE H. KIRK
LANDSCAPE ARCHITECT
1379 CONGRESSION 10
FORMOSA, ON K0G1W0
519-623-9324

SOILS & ENVIRONMENTAL:
GEMTEC CONSULTING ENGINEERING
& SCIENTISTS
35 STENOCHIE DRIVE
OTTAWA, ON K2K 2A9
613-836-1422

SURVEY:
FARLEY, SMITH & DENIS SURVEYING
LTD.
190 COLONNADE ROAD, UNIT #10
OTTAWA, ON K2E 7J5
613-272-6026

MECHANICAL:
BEKOLAY & ASSOCIATES LTD.
SUITE 480 - 505 MARCH ROAD
OTTAWA, ON K2M 2M5
613-254-5566

ELECTRICAL:
WSP
2611 QUEENSWAY DR.
OTTAWA, ON K2B 8K2
613-690-3752

STRUCTURAL:
DADDIO STRUCTURAL ENGINEERS
#11-300 EARL GREY DRIVE
SUITE 213
OTTAWA, ON K2T 1C1
613-302-8972

SCALE				DESIGN			
1:300				LSC			
				ARM			
				LLW			
				SMG			
				ARM			
REVISION				DATE			
5				REVISED PER COMMENTS			
4				REVISED PER COMMENTS			
3				ISSUED FOR SITEPLAN APPLICATION			
2				ISSUED FOR COORDINATION			
1				ISSUED FOR COORDINATION			
No.				REVISION			
				DATE			
				BY			

SCALE				DESIGN			
1:300				LSC			
				ARM			
				LLW			
				SMG			
				ARM			
REVISION				DATE			
5				REVISED PER COMMENTS			
4				REVISED PER COMMENTS			
3				ISSUED FOR SITEPLAN APPLICATION			
2				ISSUED FOR COORDINATION			
1				ISSUED FOR COORDINATION			
No.				REVISION			
				DATE			
				BY			

FOR REVIEW ONLY



NOVATECH
Engineers, Planners & Landscape Architects
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Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION
2037 MCGEE SIDE ROAD, CITY OF OTTAWA
HIGHLAND PARK REMEMBRANCE

DRAWING NAME
GRADING AND SERVICING PLAN

PROJECT No. 101063
REV # 5
DRAWING No. 101063-GR