

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 BEFORE COMMENCING CONSTRUCTION.
- 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.
- 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 IN METERS AND ARE GEODETIC:
HORIZONTAL DATUM NAD 83 (CSRS) (2010),
VERTICAL DATUM CGVD28.78
- REFER TO GEOTECHNICAL REPORT (No. PG327-1, DATED NOVEMBER 25, 2024), PREPARED BY PATERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF GRANULAR MATERIAL.
- REFER TO ARCHITECTURAL PLANS "TITAN ENVIRONMENTAL CONSTRUCTION DRAWINGS 2025-01-30" FOR BUILDING AREAS AND DIMENSIONS.

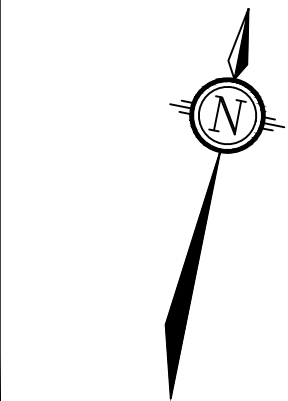
SEWER NOTES:

- SPECIFICATIONS:

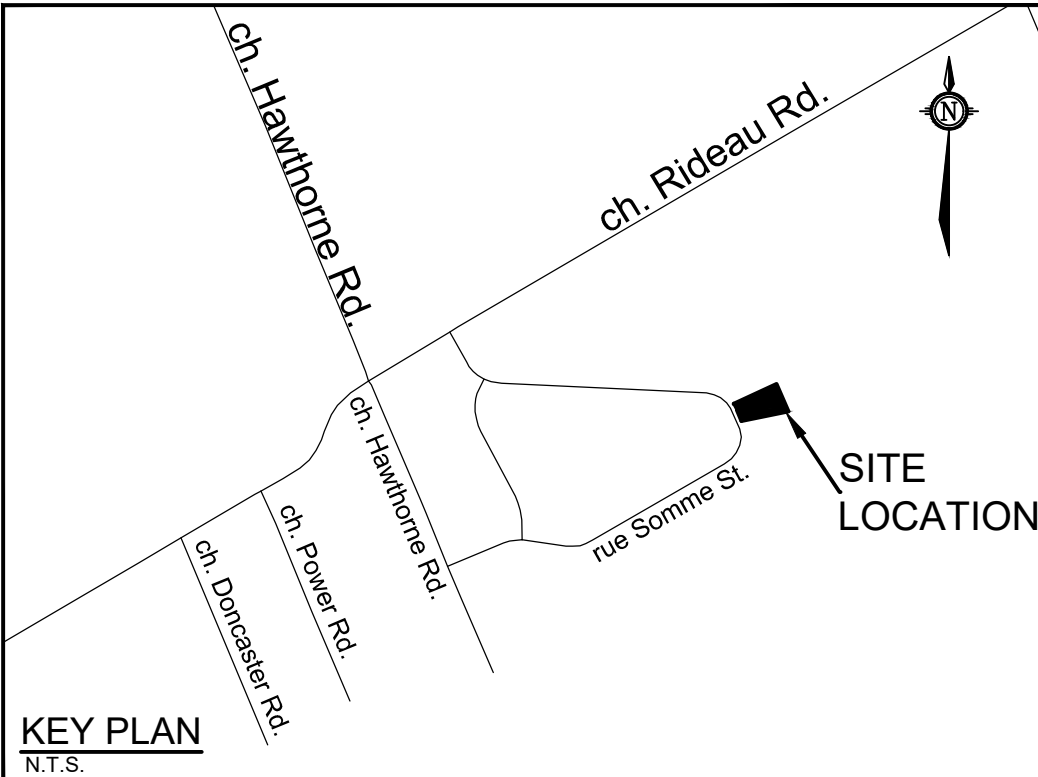
ITEM	SPEC. No.	REFERENCE
CATCHBASIN (600x600mm)	705.010	OPSD
STORM MANHOLE (12000)	701.010	OPSD
CB, FRAME & COVER	400.020	OPSD
STORM MH FRAME & COVER	401.010	OPSD
SEWER TRENCH -		
	BEDDING (GRANULAR A)	
	COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)	
	PVC DR 35	
	PVC DR 35	
	HDPE DR 17	
	PVC DR 28	

STORM SEWER
CATCHBASIN LEAD
SANITARY FORCEMAIN
SANITARY SERVICE
- INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0 m COVER WITH 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%.
- A MINIMUM OF 150mm OF OPSS GRANULAR A SHOULD BE PLACED FOR BEDDING FOR PRIVATE SEWER OR WATER PIPES WHEN PLACED ON A SOIL SUBGRADE. THE BEDDING SHOULD BE EXTENDED FROM THE SPRING LINE TO A MINIMUM OF 300mm ABOVE THE OBVERT OF THE PIPE, AND SHOULD CONSIST OF OPSS GRANULAR A.
- PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 98% 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 KOR-N-SEAL, PSX: 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 OPSS 410.07.16, 410.07.16.04 AND 407.07.24. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.

- STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO TELEWISE (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.

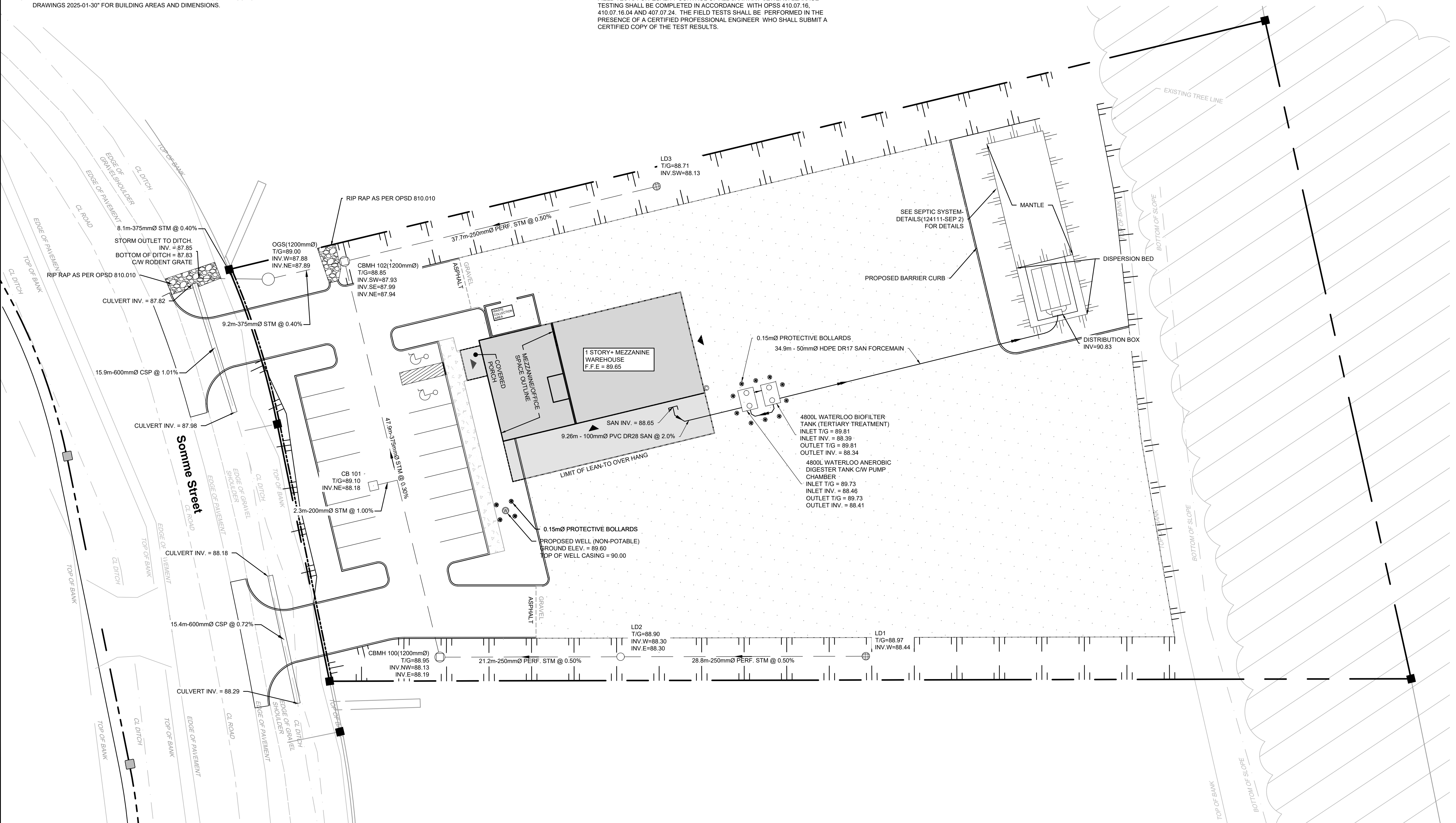


KEY PLAN
N.T.S.



LEGEND

- PROPERTY LINE
- FFE= FINISHED FLOOR ELEVATION
- DC PROPOSED FLUSH/DEPRESSED CURB
- PROPOSED BARRIER CURB
- PROPOSED SANITARY FORCEMAIN
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED SEPTIC TANK
- PROPOSED CATCHBASIN
- PROPOSED LANDSCAPE DRAIN (ELBOW)
- PROPOSED LANDSCAPE DRAIN (TEE)
- PROPOSED WELL
- PROPOSED BOLLARD
- WATERLOO CONTROL PANEL
- TERRACING: MAXIMUM 3:1 SIDESLOPE
- GRAVEL AREA



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.

No.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN APPLICATION	JUN 03/2025	GJM

SCALE	DESIGN
1:250	RJG
	CHECKED
	ARM
	DRAWN
	RJG
	CHECKED
	ARM
	APPROVED
	GJM

FOR REVIEW ONLY

DESIGN: RJG
CHECKED: ARM
DRAWN: RJG
CHECKED: ARM
APPROVED: GJM

PROFESSIONAL ENGINEER
G.J. MacDONALD
June 03, 2025
PROVINCE OF ONTARIO

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LOCATION CITY OF OTTAWA HAWTHORNE LOT 541	PROJECT No. 124111
DRAWING NAME GENERAL PLAN OF SERVICES	REV REV # 1
	DRAWING No. 124111-GP