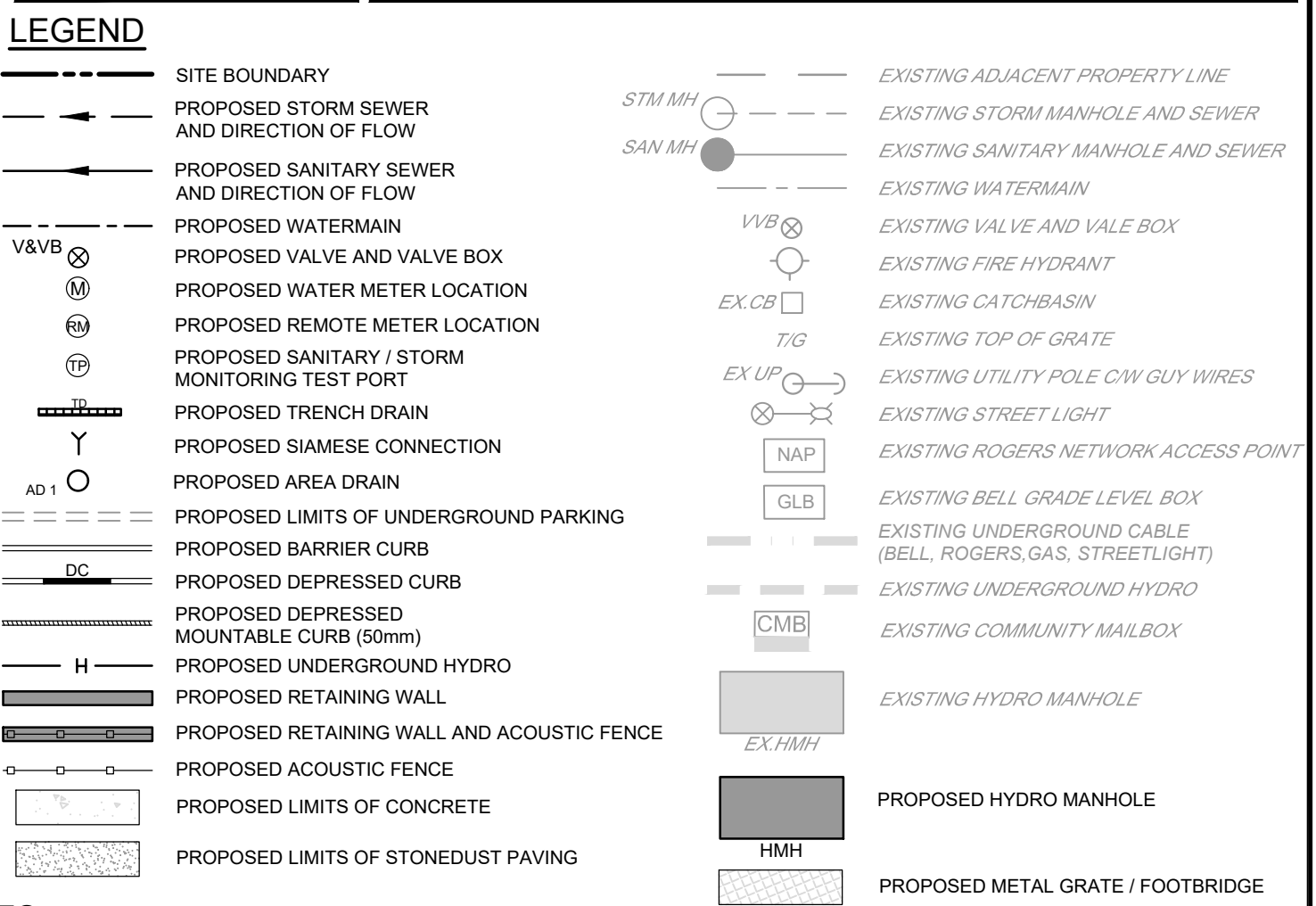
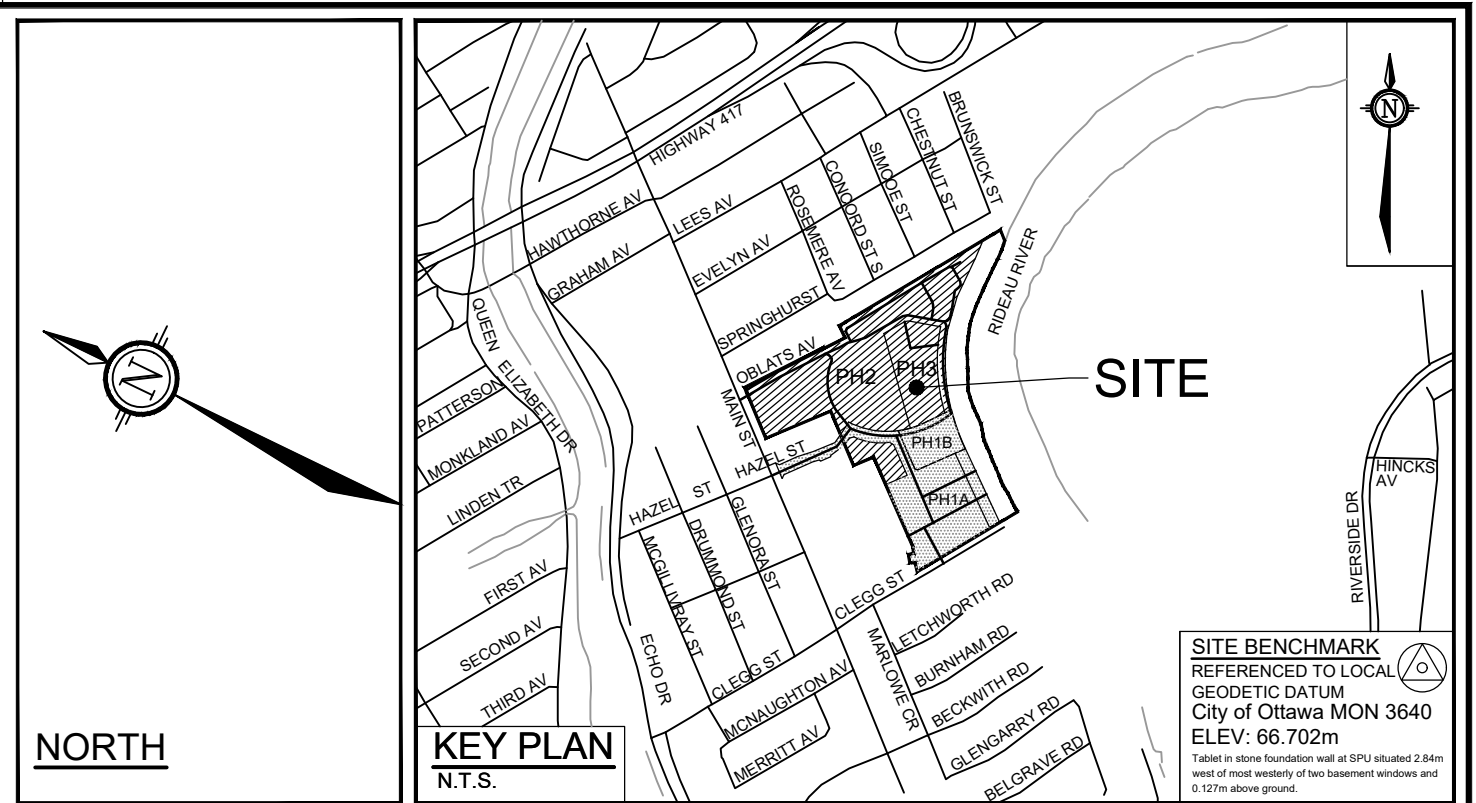
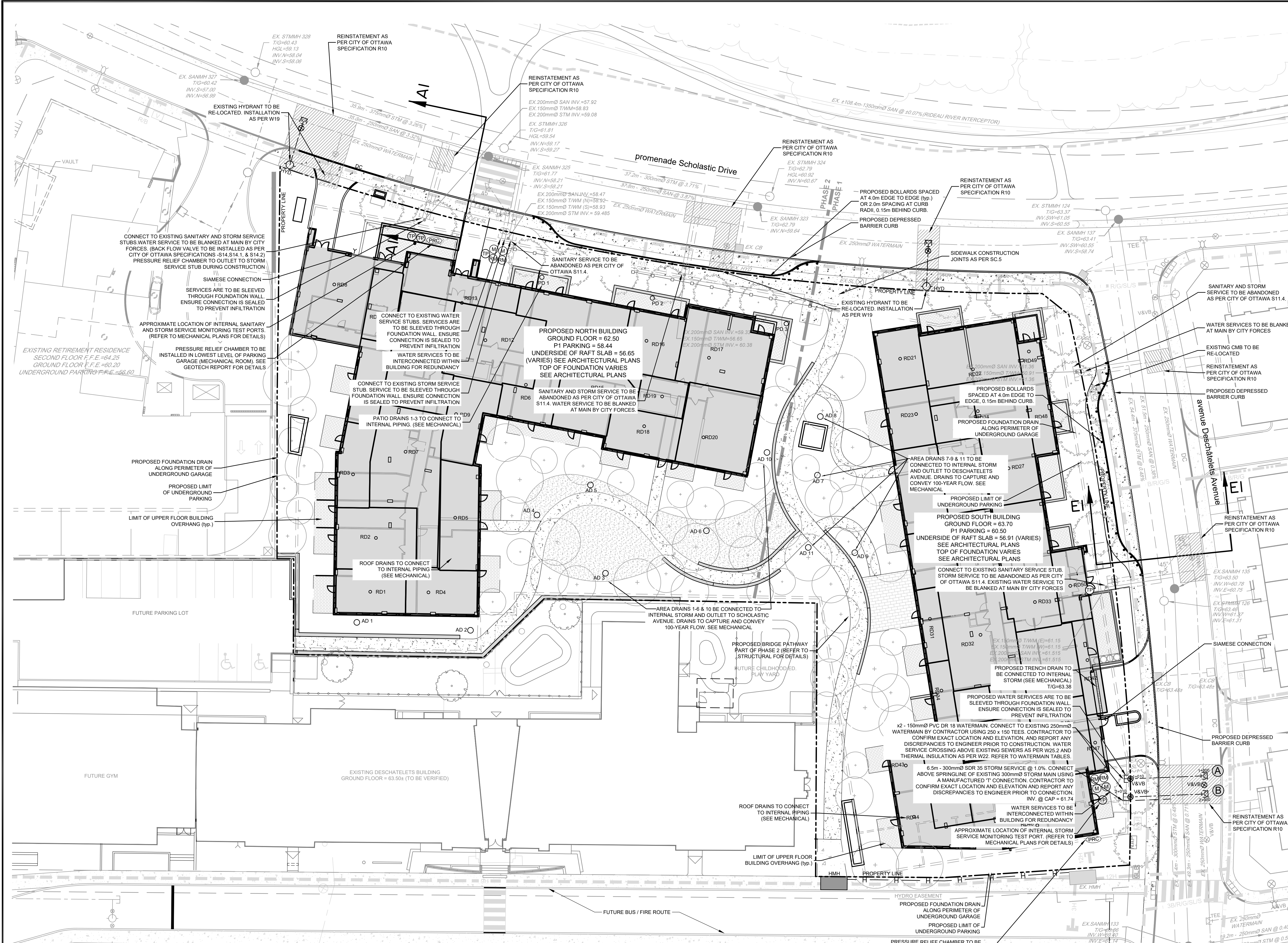




GENERAL NOTES:

- 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 GEODETIC.
- REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- REFER TO SERVISING DESIGN BRIEF PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
- SAV CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- PROVIDE LINE/PARKING PAINTING.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY DESIGN GRADE SHOWN ON THIS PLAN.
- REFER TO GEOTECHNICAL REPORT (PG5383-1, DATED MARCH 9, 2022) 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 THE GRANULAR MATERIAL.
- REFER TO GEOTECHNICAL MEMO-MEMO-03, Rev. 1, COMPLETED BY PATERSON GROUP FOR INSULATION DETAILS ON FOUNDATIONS AND SERVICE PIPE.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE.
- ALL PRIVATE APPROACHES MUST BE CONSTRUCTED AS PER CITY SPECIFICATION SC13.

SEWER NOTES:

- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
SEWER SERVICE CONNECTION - RIGID PIPE	S11, S11.1	CITY OF OTTAWA
SEWER SERVICE ABANDONMENT	S11.4	CITY OF OTTAWA
SEWER TRENCH - BEDDING (GRANULAR A)	S6, S7, W17	CITY OF OTTAWA / OPSD
SEWER TRENCH - COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)	S6, S7, W17	CITY OF OTTAWA / OPSD
STORM SEWER	PVC DR 35	CITY OF OTTAWA
SANITARY SEWER	PVC DR 35	CITY OF OTTAWA
WASTEWATER SAMPLING/INSPECTION CHAMBER	S18.1	CITY OF OTTAWA
- INSULATE ALL PIPES (SANITARY) THAT HAVE LESS THAN 2.0m COVER FROM STORM AND 2.5m FOR SANITARY SEWER WITH 50mmx1200mm HI-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 95% 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, PSK POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVISING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPS 410.07.16, 410.07.16.04 AND 407.24. QUALITY 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.
- FULL PORT BACKWATER VALVES ARE REQUIRED ON THE SANITARY SERVICES. INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS AND A BACKWATER VALVE IS REQUIRED ON THE STORM SERVICES / FOUNDATION DRAINS FOR EACH BUILDING; INSTALLED AS PER STD. DWG S14.
- CONTRACTOR TO TELETYPE (CCTV) ALL PROPOSED SEWERS/LATERALS.
- REINSTATE ALL EXISTING PAVEMENT, CURBS AND BOULEVARDS AS PER CITY OF OTTAWA R10.
- ALL EXISTING SANITARY AND STORM SERVICES ARE TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATION.
- MONITORING TEST PORTS FOR BUILDING SERVICES TO BE INSTALLED IN PARKING GARAGE.
- ANY SERVICES THAT REQUIRE ENTRY TO THE BUILDING THROUGH A FOUNDATION WALL ARE TO BE SLEEVED AND SEALED TO PREVENT INFILTRATION.

WATERMAIN NOTES:

- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
VALVE BOX ASSEMBLY	W24	CITY OF OTTAWA
CONNECTION DETAIL FROM EXISTING TO NEW WM	W25.1	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER	W25.2	CITY OF OTTAWA
WATERMAIN CROSSING OVER SEWER	PVC DR 18	CITY OF OTTAWA
WATERMAIN (150mm)	TYPE 'K' COPPER	CITY OF OTTAWA
THERMAL INSULATED AT OPEN STRUCTURE	W23	CITY OF OTTAWA
WATER SERVICE INSTALLATION AT SEWER CROSSING	W23	CITY OF OTTAWA
- SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER STD. DWG W21, W22, AND W23.
- PROVIDE MINIMUM 0.50m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WHEN WATERMAIN IS BELOW AND MINIMUM 0.25m CLEARANCE WHEN WATERMAIN IS ABOVE.
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.
- ALL EXISTING WATER SERVICES TO BE BLANKED AT MAIN BY CITY FORCES. EXCAVATION AND REINSTATEMENT BY CONTRACTOR.
- VALVES TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY OF OTTAWA (COO). COO FORS TO COMPLETE WATERMAIN CONNECTIONS. EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- WATERMANS TO BE INTERCONNECTED FOR REDUNDANCY.

PAVEMENT STRUCTURE DETAILS:

LOCAL ROADWAYS

- 40mm Supersave 12.5mm PG 58-34
- 60mm Supersave 19.0mm PG 58-34
- 150mm GRANULAR 'A' BASE
- 375mm GRANULAR 'B' TYPE II SUBBASE
- OPSS SELECT SUBGRADE MATERIAL (SSM)

COLLECTOR ROADWAYS / BUS LOOP

- 50mm Supersave 12.5mm PG58-34
- 60mm Supersave 19.0mm PG 58-34
- 150mm GRANULAR 'A' BASE
- 450mm GRANULAR 'B' TYPE II SUBBASE
- OPSS SELECT SUBGRADE MATERIAL (SSM)

WATERMAIN TABLE - DESCHÂTELETS AVENUE

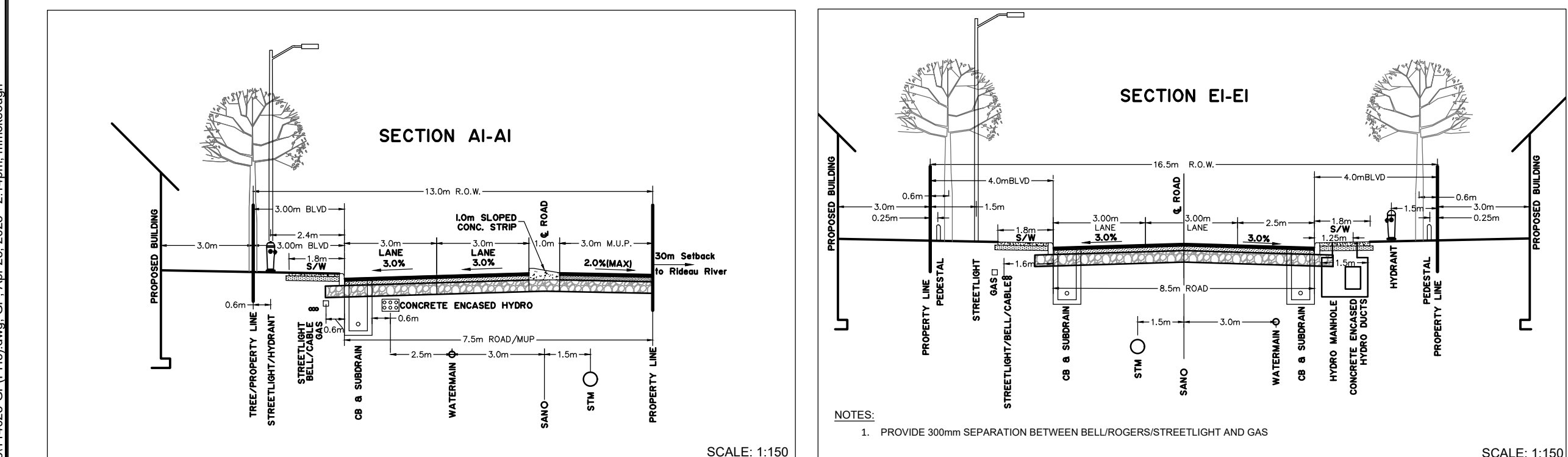
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
1+00.0	63.64	61.26	CONNECTION TO EXISTING 250mm WATERMAIN
1+00.9	63.67	61.27	45° VERTICAL BEND
1+01.8	63.69	62.19	45° VERTICAL BEND
1+03.0	63.66	62.19	CROSSING ABOVE EX 250mm SANITARY SEWER EX 250mm SAN OBV @ CROSSING +01.22 CLEARANCE=0.81m
1+04.7	63.61	62.19	CROSSING ABOVE EX 300mm STORM SEWER EX 300mm STM OBV @ CROSSING +01.79 CLEARANCE=0.25m AS PER W25.2
1+05.9	63.57	62.19	45° VERTICAL BEND
1+06.8	63.72	61.32	45° VERTICAL BEND
1+10.1	63.77	61.37	VALVE & VALVE BOX @ PROPERTY LINE

* EXACT DEPTH OF EXISTING WATERMAIN TO BE DETERMINED AT TIME OF EXCAVATION. CONTRACTOR TO CONFIRM TOP OF WATERMAIN. PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 WHERE COVER IS LESS THAN 2.4m

WATERMAIN TABLE - DESCHÂTELETS AVENUE

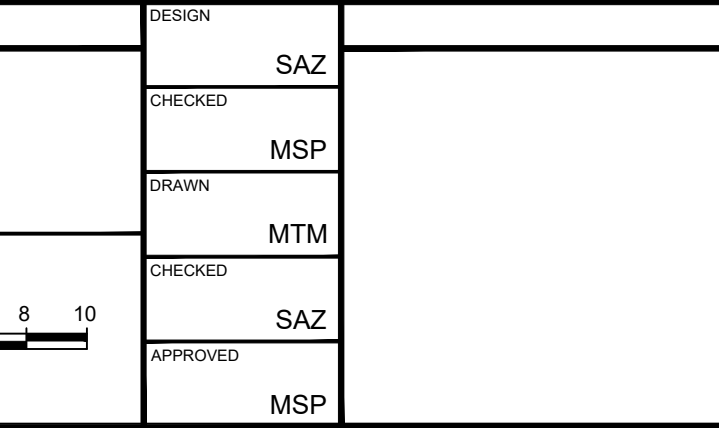
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
2+00.0	63.66	61.26	CONNECTION TO EXISTING 250mm WATERMAIN
2+00.9	63.69	61.29	45° VERTICAL BEND
2+01.8	63.71	62.20	45° VERTICAL BEND
2+03.0	63.67	62.20	CROSSING ABOVE EX 250mm SANITARY SEWER EX 250mm SAN OBV @ CROSSING +01.24 CLEARANCE=0.81m
2+04.7	63.62	62.20	CROSSING ABOVE EX 300mm STORM SEWER EX 300mm STM OBV @ CROSSING +01.80 CLEARANCE=0.25m AS PER W25.2
2+05.9	63.59	62.20	45° VERTICAL BEND
2+06.8	63.73	61.33	45° VERTICAL BEND
2+10.1	63.79	61.39	VALVE & VALVE BOX @ PROPERTY LINE

* EXACT DEPTH OF EXISTING WATERMAIN TO BE DETERMINED AT TIME OF EXCAVATION. CONTRACTOR TO CONFIRM TOP OF WATERMAIN. PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 WHERE COVER IS LESS THAN 2.4m



No.	REVISION	DATE	BY	No.	REVISION	DATE	BY
24.	REVISED AS PER CITY OF OTTAWA COMMENTS	APR 28/25	SAZ	16.	ISSUED FOR COORDINATION	AUG 8/24	SAZ
23.	ISSUED FOR CONSTRUCTION	JAN 20/25	SAZ	15.	60% ISSUED FOR COORDINATION	JUNE 28/24	SAZ
22.	REVISED ROOF DRAINS	NOV 7/24	SAZ	14.	ISSUED FOR COORDINATION	MAR 13/24	SAZ
21.	REVISED ROOF DRAINS	NOV 5/24	SAZ	13.	REVISED WATER SERVICE SOUTH BUILDING	MAY 2/24	SAZ
20.	REVISED ROOF DRAINS AND SERVICE LATERAL NOTES	OCT 29/24	SAZ	12.	REVISED AS PER CITY OF OTTAWA COMMENTS	JAN 20/23	SAZ
19.	ISSUED FOR TENDER	OCT 15/24	SAZ	11.	REVISED AS PER CITY OF OTTAWA COMMENTS	NOV 24/22	SAZ
18.	ISSUED FOR BUILDING PERMIT	SEP 13/24	SAZ	10.	REVISED AS PER CITY OF OTTAWA COMMENTS	AUG 19/22	SAZ
17.	ISSUED FOR COORDINATION	SEP 10/24	SAZ	9.	ISSUED FOR COORDINATION	AUG 10/22	SAZ

No.	REVISION	DATE	BY	No.	REVISION	DATE	BY
16.	ISSUED FOR COORDINATION	AUG 8/24	SAZ	8.	REVISED AS PER CITY OF OTTAWA COMMENTS	JUN 3/22	SAZ
15.	60% ISSUED FOR COORDINATION	JUNE 28/24	SAZ	7.	ISSUED FOR COORDINATION	MAY 24/22	SAZ
14.	ISSUED FOR COORDINATION	MAR 13/24	SAZ	6.	ISSUED FOR COORDINATION	MAR 4/22	SAZ
13.	REVISED WATER SERVICE SOUTH BUILDING	MAY 2/24	SAZ	5.	ISSUED WITH SITE PLAN APPLICATION	JUL 22/21	JAG
12.	REVISED AS PER CITY OF OTTAWA COMMENTS	JAN 20/23	SAZ	4.	ISSUED FOR INFORMATION	MAR 19/21	JAG
11.	REVISED AS PER CITY OF OTTAWA COMMENTS	NOV 24/22	SAZ	3.	RE-ISSUED FOR COORDINATION	FEB 17/21	JAG
10.	REVISED AS PER CITY OF OTTAWA COMMENTS	AUG 19/22	SAZ	2.	ISSUED FOR COORDINATION	DEC 4/20	JAG
9.	ISSUED FOR COORDINATION	AUG 10/22	SAZ	1.	ISSUED FOR DISCUSSION PURPOSES	DEC 2/20	JAG



CITY OF OTTAWA
375 DESCHÂTELETS AVENUE
GREYSTONE VILLAGE PHASE 3

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Facsimile: (613) 254-5867
Website: www.novatech-eng.com

GENERAL PLAN OF SERVICING

DRAWING NAME
114025-SPH3

REVISION
REV # 24

DRAWING NO.
114025-GR(PH3)

PROJECT NO.
114025-GR(PH3)

DATE
2025-09-10

SCALE
1:250

CHECKED
SAZ

DRAWN
MSP

APPROVED
SAZ

PROVINCE OF ONTARIO
REGISTERED PROFESSIONAL ENGINEER
SAN ZORZEL
100191487
No. 25125