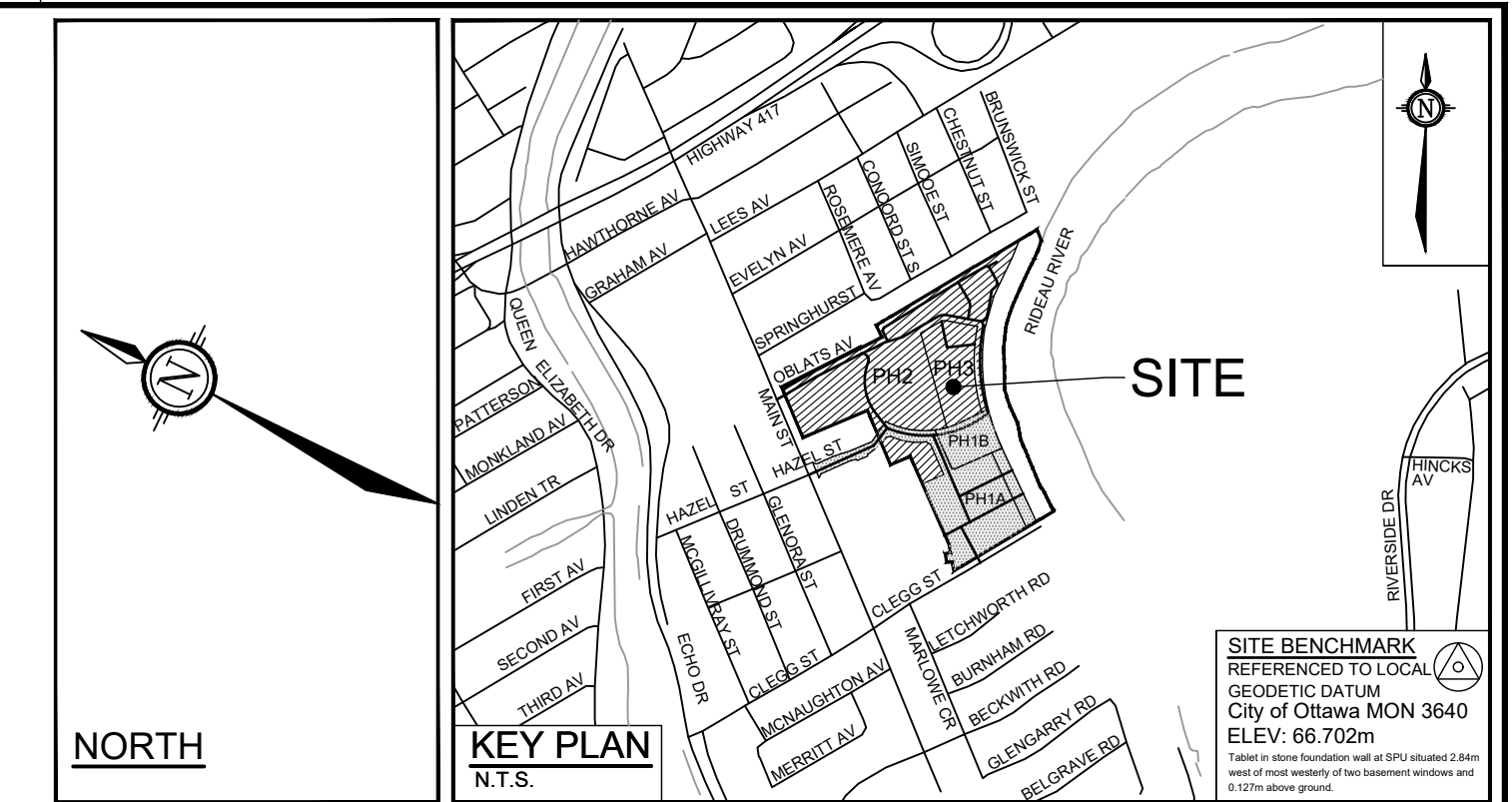
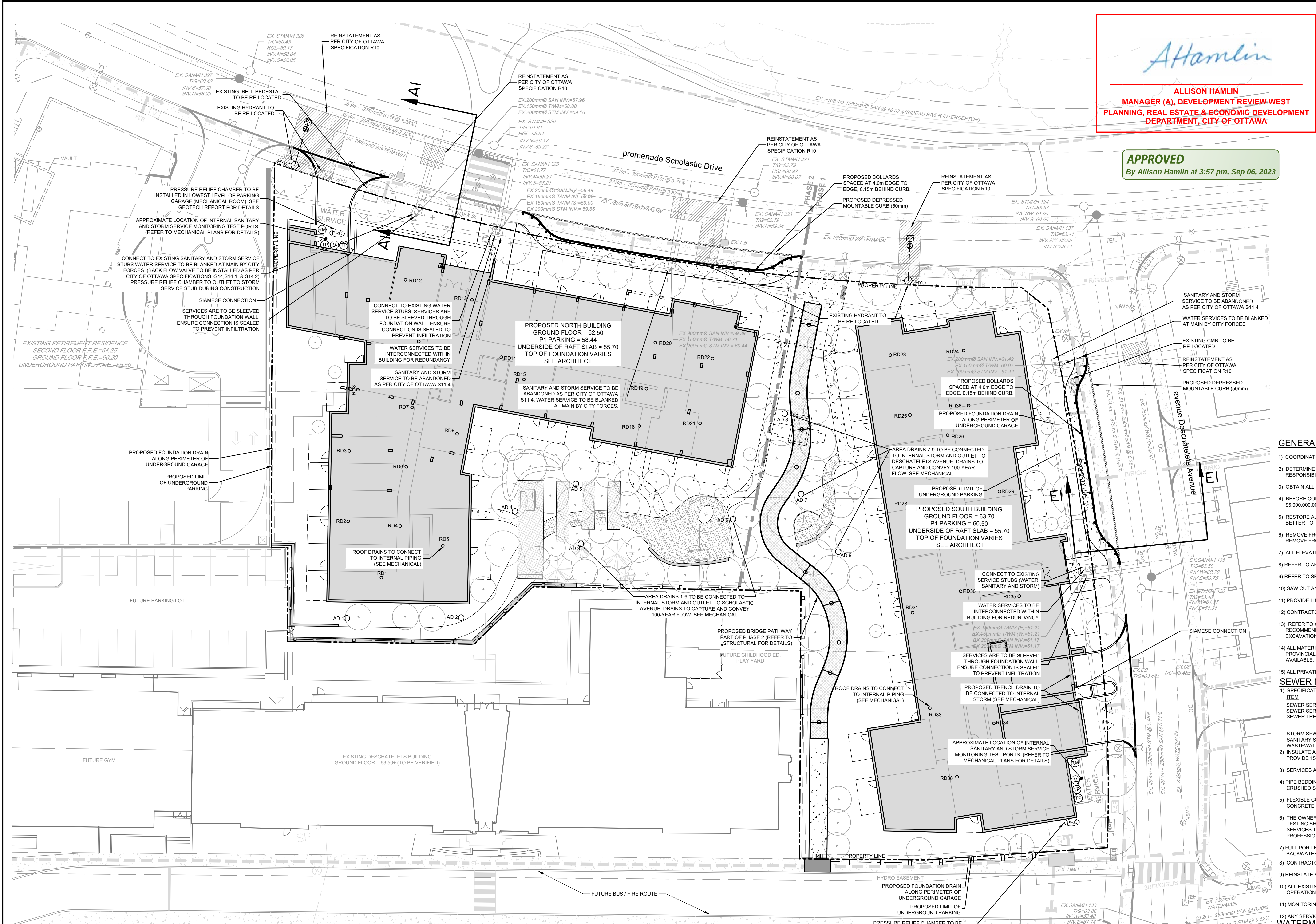




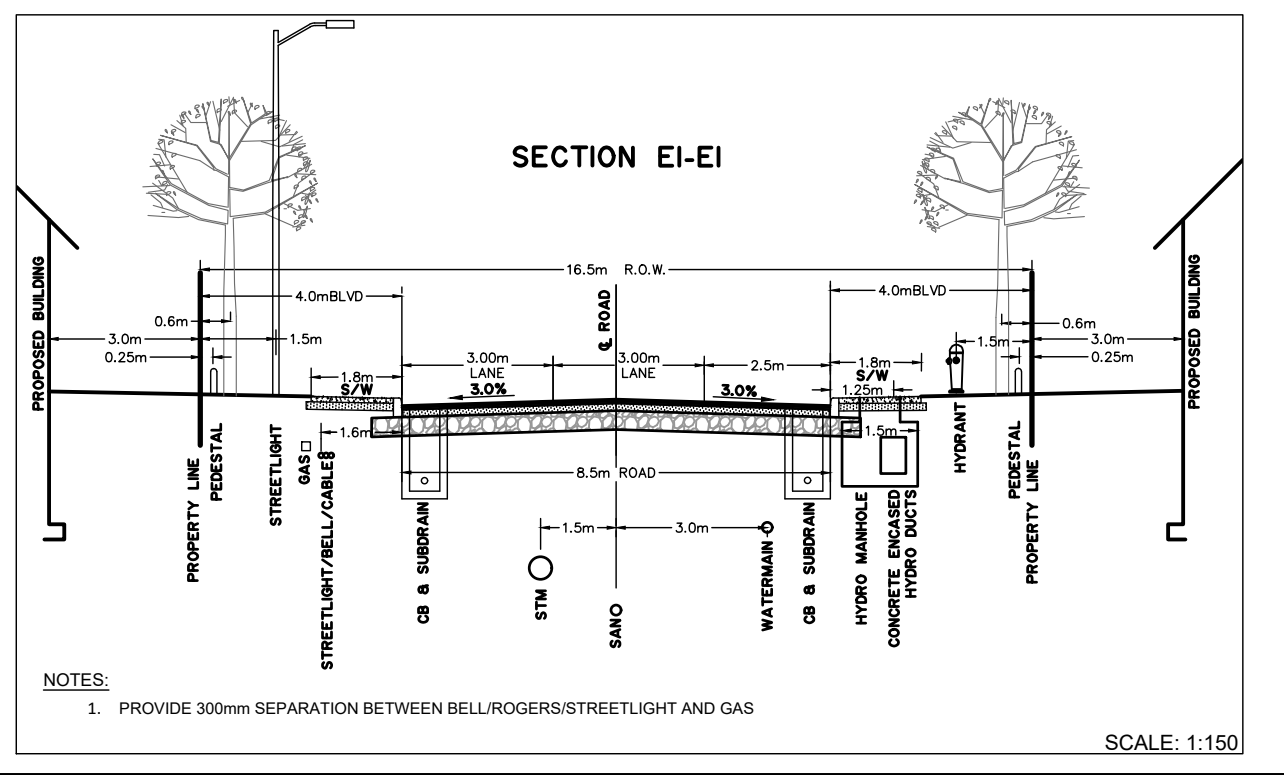
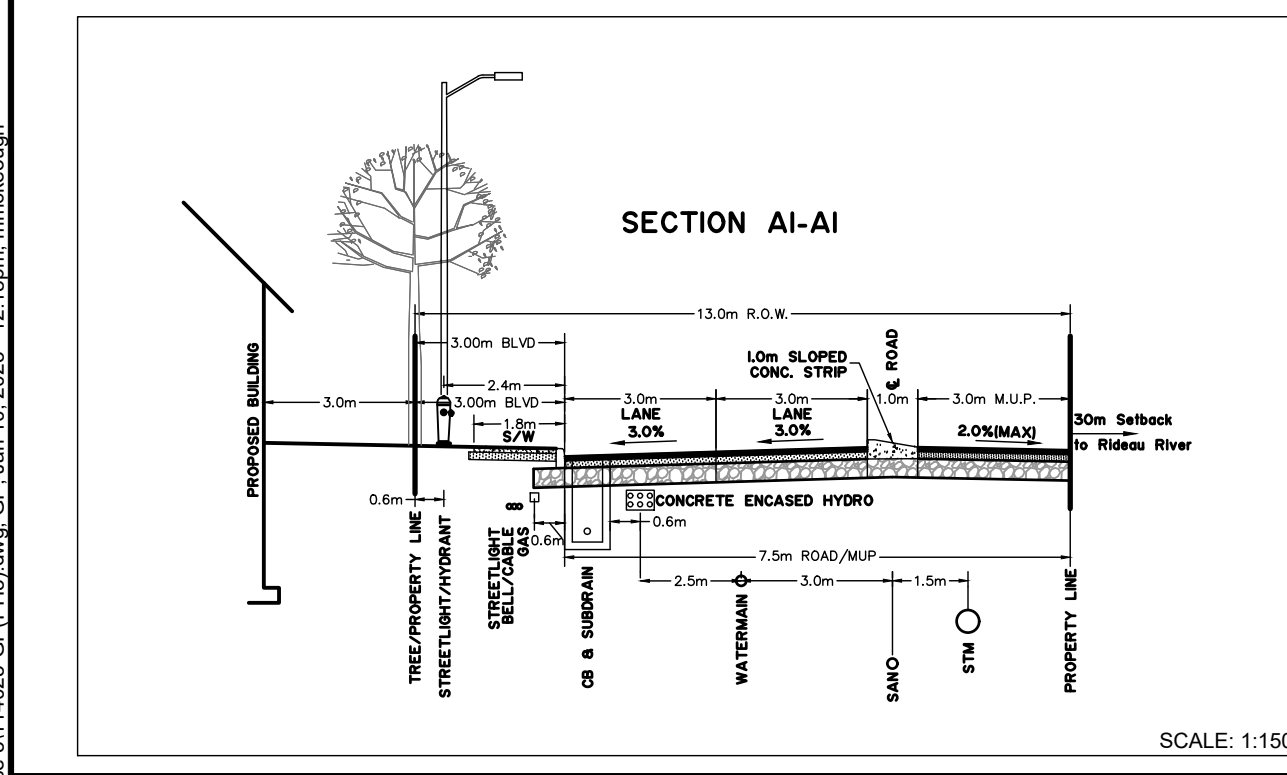
LEGEND	
	SITE BOUNDARY
	PROPOSED STORM SEWER AND DIRECTION OF FLOW
	PROPOSED SANITARY SEWER AND DIRECTION OF FLOW
	PROPOSED WATERMAIN
	PROPOSED VALVE AND VALVE BOX
	PROPOSED WATER METER LOCATION
	PROPOSED REMOTE METER LOCATION
	PROPOSED SANITARY / STORM MONITORING TEST PORT
	PROPOSED TRENCH DRAIN
	PROPOSED SIAMESE CONNECTION
	PROPOSED AREA DRAIN
	PROPOSED LIMITS OF UNDERGROUND PARKING
	PROPOSED BARRIER CURB
	PROPOSED DEPRESSED CURB
	PROPOSED DEPRESSED MOUNTABLE CURB (50mm)
	PROPOSED RETAINING WALL AND ACOUSTIC FENCE
	PROPOSED ACOUSTIC FENCE
	PROPOSED LIMITS OF CONCRETE
	PROPOSED LIMITS OF STONEDUST PAVING
	PROPOSED METAL GRATE / FOOTBRIDGE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING STORM MANHOLE AND SEWER
	EXISTING SANITARY MANHOLE AND SEWER
	EXISTING WATERMAIN
	EXISTING VALVE AND VALVE BOX
	EXISTING FIRE HYDRANT
	EXISTING CATCHBASIN
	EXISTING TOP OF GRATE
	EXISTING UTILITY POLE C/W GUY WIRES
	EXISTING ROGERS NETWORK ACCESS POINT
	EXISTING BELL GRADE LEVEL BOX
	EXISTING UNDERGROUND CABLE (BELL, ROGERS, GAS, STREETLIGHT)
	EXISTING UNDERGROUND HYDRO
	EXISTING COMMUNITY MAILBOX
	EXISTING HYDRO MANHOLE
	PROPOSED HYDRO MANHOLE
	EXISTING LIMITS OF CONCRETE
	PROPOSED TREES / SHRUBS

- 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 SERVICING DESIGN BRIEF PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
 - SAW 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 AUGUST 11, 2020) PREPARED BY PETERSON 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.
 - 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.

SEWER NOTES:			
1) SPECIFICATIONS:			
ITEM	SPEC. No.	REFERENCE	
SEWER SERVICE CONNECTION - RIGID PIPE	S11.1	CITY OF OTTAWA	
SEWER SERVICE ABANDONMENT	S11.4	CITY OF OTTAWA	
SEWER TRENCH - BEDDING (GRANULAR A)	S6.57, W17	CITY OF OTTAWA / OPSD	
COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)	S6.57, W17	CITY OF OTTAWA / OPSD	
STORM SEWER	PVC DR 36		
SANITARY SEWER	PVC DR 36		
WASTEWATER SAMPLING/INSPECTION CHAMBER	S18.1	CITY OF OTTAWA	
2) INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER FROM STORM AND 2.5m FOR SANITARY SEWER WITH 50mm X 1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.			
3) SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.			
4) 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.			
5) 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.			
6) 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 OPS 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.			
7) 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.			
8) CONTRACTOR TO TELETYPE (CCTV) ALL PROPOSED SEWERS/LATERALS.			
9) REINSTATE ALL EXISTING PAVEMENT, CURB AND BOULEVARDS AS PER CITY OF OTTAWA R10.			
10) 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.			
11) MONITORING TEST PORTS FOR BUILDING SERVICES TO BE INSTALLED IN PARKING GARAGE.			
12) ANY SERVICES THAT REQUIRE ENTRY TO THE BUILDING THROUGH A FOUNDATION WALL ARE TO BE SLEEVED AND SEALED TO PREVENT INFILTRATION.			

WATERMAIN NOTES:

1) 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	CITY OF OTTAWA
	WATERMAIN CROSSING OVER SEWER	W25-2	CITY OF OTTAWA
	WATERMAIN (150mm)	PVC DR 18	CITY OF OTTAWA
	WATERMAIN (50mm)	TYPE "K" COPPER	CITY OF OTTAWA
	THERMAL INSULATED AT OPEN STRUCTURE	W23	CITY OF OTTAWA
	WATER SERVICE INSTALLATION AT SEWER CROSSING	W38	CITY OF OTTAWA
2)	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.		
3)	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.		
4)	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.		
5)	WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.		
6)	ALL EXISTING WATER SERVICES TO BE BLANKED AT MAIN BY CITY FORCES. EXCAVATION AND REINSTATEMENT BY CONTRACTOR.		
7)	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). COA FORCES TO COMPLETE WATERMAIN CONNECTIONS. EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR		
8)	WATERMANS TO BE INTERCONNECTED FOR REDUNDANCY.		



- PAVEMENT STRUCTURE DETAILS:**
- LOCAL ROADWAYS**
- 40mm Superpave 12.5mm PG 58-34
 - 50mm Superpave 15.0mm PG 58-34
 - 150mm GRANULAR "A" BASE
 - 375mm GRANULAR "B" TYPE II SUBBASE
 - OPSS SELECT SUBGRADE MATERIAL (SSM)
- COLLECTOR ROADWAYS / BUS LOOP**
- 50mm Superpave 12.5mm PG58-34
 - 60mm Superpave 19.0mm PG 58-34
 - 150mm GRANULAR "A" BASE
 - 450mm GRANULAR "B" TYPE II SUBBASE
 - OPSS SELECT SUBGRADE MATERIAL (SSM)

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.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

REVISION				REVISION			
No.	REVISION	DATE	BY	No.	REVISION	DATE	BY
12.	REVISED AS PER CITY OF OTTAWA COMMENTS	JAN 2023	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

SCALE		FOR REVIEW ONLY	
1:250		SAZ	
		MSP	
		MTM	
		SAZ	
		MSP	



CITY OF OTTAWA 375 DESCHÂTELETS AVENUE GREYSTONE VILLAGE PHASE 3		PROJECT No.	114025-PH3
DRAWING NAME		REV	REV # 12
GENERAL PLAN OF SERVICING		DRAWING No.	114025-GP(PH3)