

INTERNAL SWM STORAGE SYSTEM			
DESIGN EVENT	STORAGE SYSTEM CONTROLLED FLOW	STORAGE VOLUMES	
		REQUIRED	PROVIDED
12 YR	4.1 L/s	19.9 m³	> 71 m³
15 YR		30.3 m³	
1100 YR		70.9 m³	
NOTES:			
1. ALL DRAINAGE FROM AREA A-2 (ALL ROOF + DECK DRAINS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE SYSTEM. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR DETAILS.			
2. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT SIZE AND DETAILS OF INTERNAL STORMWATER STORAGE SYSTEM.			
3. REFER TO MECHANICAL PLANS FOR PUMP INFORMATION AND DETAILS OF THE INTERNAL STORMWATER STORAGE SYSTEM.			

LEGEND:

RD	PROPERTY LINE	FFE	FINISHED FLOOR ELEVATION
DC	PROPOSED CONTROLLED FLOW ROOF DRAIN	T/FND	TOP OF FOUNDATION WALL ELEVATION
	PROPOSED WATER METER AND REMOTE METER	USF	UNDERSIDE OF FOOTING ELEVATION
	PROPOSED BARRIER CURB	X	REMOVAL AND/OR ABANDONMENT
	PROPOSED DEPRESSED CURB	X	WATERMAIN CAP
	PROPOSED BUILDING ENTRANCE	X	PROPOSED FENCE AND GATE
	PROPOSED WATER SERVICE	X	PROPOSED TEST PORT
	PROPOSED STORM SERVICE	X	PROPOSED SANITARY SERVICE
	PROPOSED VALVE AND VALVE BOX	X	PROPOSED STORM SERVICE
	PROPOSED THERMAL INSULATION	X	CBMH LID FOR SWM TANK OVERFLOW
	PROPOSED GAS PRESSURE REGULATING STATION	X	PROPOSED SIAMESE CONNECTION

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.
- COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED'.
- 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 MUNICIPAL AUTHORITIES.
- 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 GEOTECHNICAL INVESTIGATION REPORT (PATERSON REPORT NUMBER PG5405-1 REVISION 3), DATED JULY 24 2024, PREPARED BY PATERSON GROUP INC. 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 MECHANICAL PLAN FOR UN-CONTROLLED ROOF DRAIN INFORMATION.
- REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
- REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2020-130) PREPARED BY NOVATECH.
- SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

SEWER NOTES:

- 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'.
- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
CBMH FRAME AND COVER	401.010 - TYPE 'B'	OPSD
STORM SERVICE	PVC DR 35	PVC DR 35
SANITARY SERVICE	PVC DR 35	PVC DR 35
SEWER TRENCH	BEDDING (GRANULAR 'A')	COVER (GRANULAR 'A' OR GRANULAR 'B' TYPE I WITH MAXIMUM PARTICLE SIZE=25mm)
- THE SANITARY SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14.1 OR S14.2. REFER TO MECHANICAL PLANS FOR DETAILS.
- THE STORM SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14. REFER TO MECHANICAL PLANS FOR DETAILS.
- 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.
- INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 1.5m COVER WITH UP TO 125mm THICK H-40 RIGID INSULATION.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE 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.
- 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.

WATERMAIN NOTES:

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

ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
THERMAL INSULATION BY OPEN STRUCTURES	W23	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWERS	W25	CITY OF OTTAWA
WATERMAIN MATERIAL	PVC DR 18 (100mm AND LARGER)	
- 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 CITY OFFICIALS. EXCAVATION, INSTALLATION OF SEWERS, BACKFILL AND RESTORATION BY THE CONTRACTOR.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
- PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

PROPOSED 150mmØ WATER SERVICE TABLE - LOUISA STREET			
STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
0+00	71.60±	69.40±	150mmØ WM CONNECTION TO EX. 150mmØ WM
0+05.9	71.83	69.43	150mmØ V&VB
0+06.4	71.84	69.45	CAP 0.5m FROM PROPERTY LINE

- \* CONNECTION TO EXISTING 150mmØ WATERMAIN. EXACT ELEVATIONS TO BE FIELD DETERMINED.
- \*\* PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 IN SHALLOW TRENCHES AND/OR CITY OF OTTAWA DETAIL W23 ADJACENT TO OPEN STRUCTURES.

PROPOSED 150mmØ WATER SERVICE TABLE - BELL STREET			
STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
1+00	71.60±	69.37±	150mmØ WM CONNECTION TO EX. 200mmØ WM
1+03.0	71.74	69.34	150mmØ V&VB
1+04.5	71.74	69.34	CROSS UNDER 150mm GAS (T/GAS=70.84±, CLEARANCE = 1.35m±)
1+05.2	71.75	69.35	CAP 0.5m FROM PROPERTY LINE

- \* CONNECTION TO EXISTING 200mmØ WATERMAIN. EXACT ELEVATIONS TO BE FIELD DETERMINED.
- \*\* PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 IN SHALLOW TRENCHES AND/OR CITY OF OTTAWA DETAIL W23 ADJACENT TO OPEN STRUCTURES.

NOTE:  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

BENCHMARK INFO:

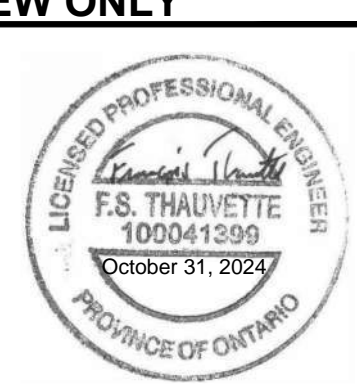
TOP OF SPINDLE OF EXISTING ON-SITE FIRE HYDRANT LOCATED NEAR THE SOUTH-WEST CORNER OF THE INTERSECTION OF ARLINGTON AVENUE AND BELL STREET.  
GEODETIC ELEVATION = 73.21m. ALL ELEVATIONS ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM VERTICAL CONTROL MONUMENT NO. 3603 HAVING AN ELEVATION OF 76.959 METRES.  
THE EXISTING GRADES SHOWN ON THE PLANS ARE TAKEN DIRECTLY FROM TOPOGRAPHICAL SURVEY PLAN (Ref. # 21029-20 JRE LI 7 PL 49 T F), PREPARED BY ANNIS, O'SULLIVAN, VOLLEBECK SIGNED AND DATED NOVEMBER 20, 2020.  
SURROUNDING BACKGROUND TOPO INFORMATION BEYOND THE LIMITS OF THE SITE SURVEY ARE SHOWN FROM CITY OF OTTAWA 1:1000 MAPPING FOR CONTEXT ONLY.

OWNER INFORMATION  
IRONWOOD FUND LIMITED PARTNERSHIP  
18 LOUISA STREET, SUITE 370  
OTTAWA, ONTARIO, K1R 6Y6  
NAME: KEN JENNINGS  
PHONE: (343) 961-8380  
admin@jenningsdevelopments.com

SCALE			
1:200			
No.	REVISION	DATE	BY
4	REVISED PER CITY COMMENTS	OCT 31/24	FST
3	ISSUED FOR SITE PLAN CONTROL APPROVAL	AUG 07/24	FST
2	REVISED PER CITY COMMENTS	NOV 10/21	FST
1	ISSUED FOR SITE PLAN APPROVAL	MAY 28/21	FST

DESIGN	DM / SM
CHECKED	FST
DRAWN	DM
CHECKED	SM
APPROVED	FST

FOR REVIEW ONLY



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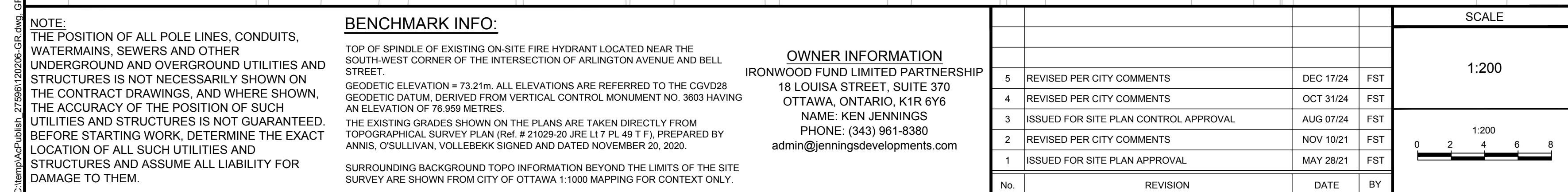
LOCATION  
CITY OF OTTAWA  
18 LOUISA STREET



DRAWING NAME  
GENERAL PLAN OF SERVICES

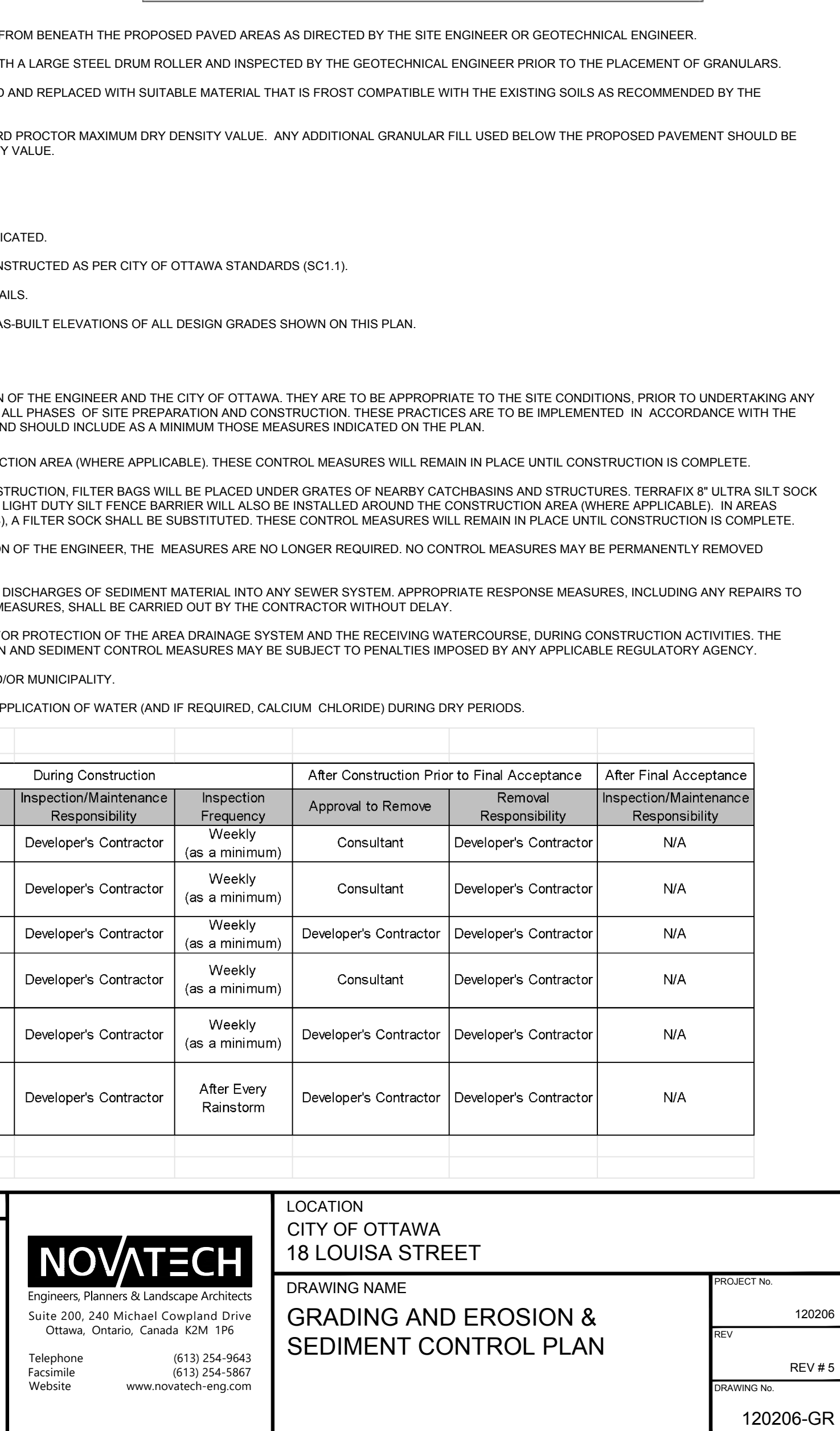
PROJECT No.	120206
REV	REV # 4
DRAWING No.	120206-GP

D07-12-21-0102

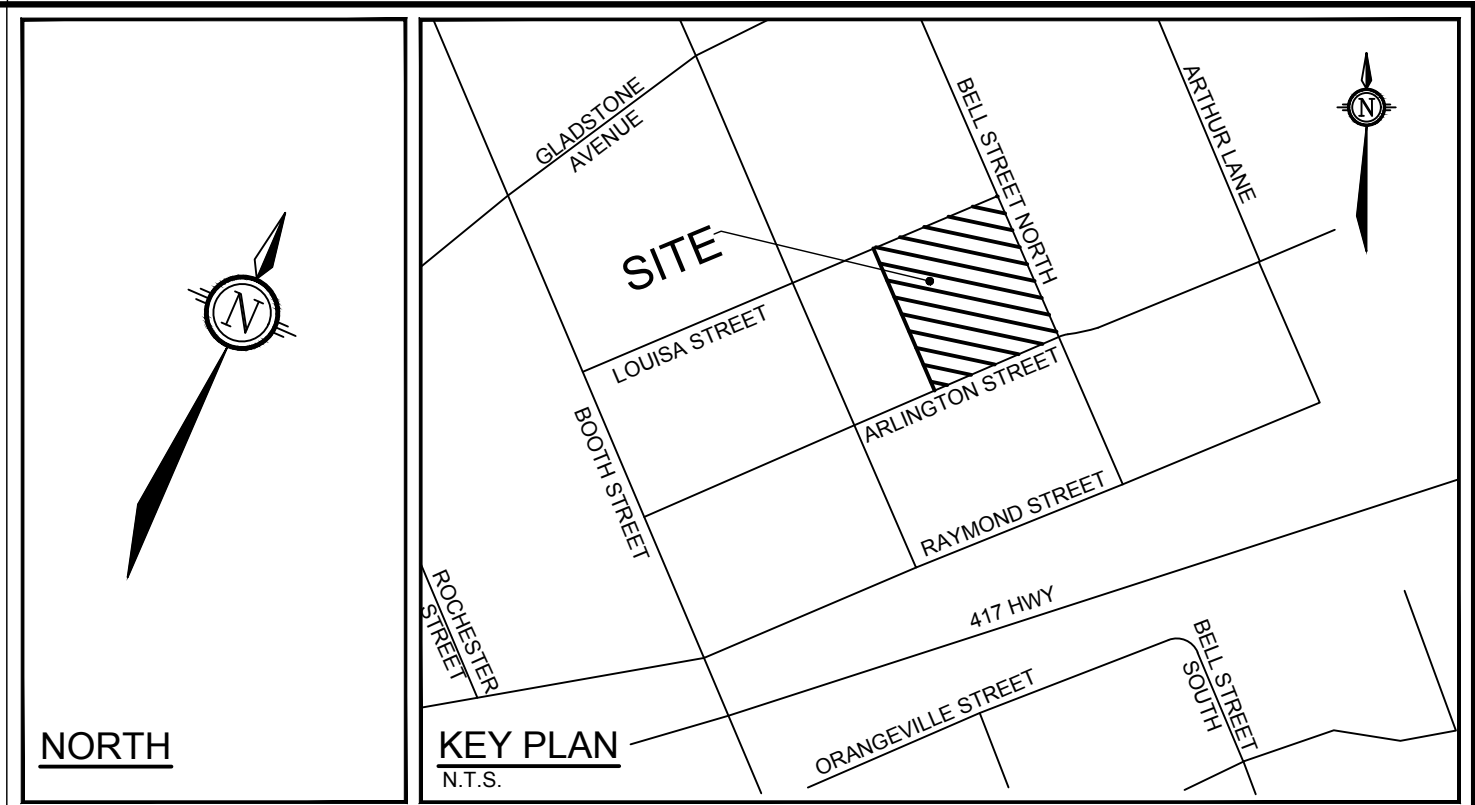
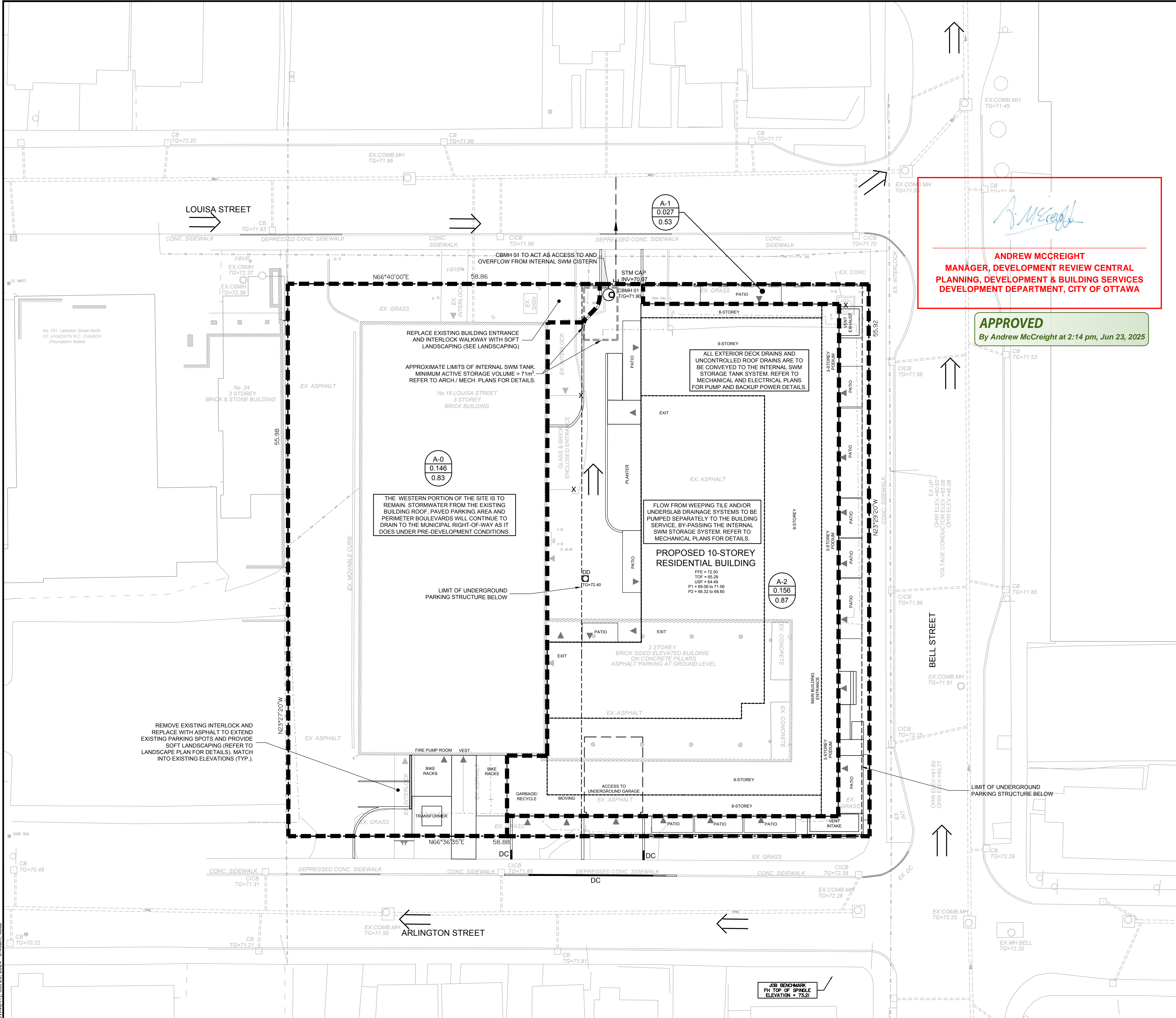




				During Construction			After Construction Prior to Final Acceptance		After Final Acceptance	
	ESC Measure	Symbol	Specification	Installation Responsibility	Inspection/Maintenance Responsibility	Inspection Frequency	Approval to Remove	Removal Responsibility	Inspection/Maintenance Responsibility	
Temporary Measures	Silt Fence		OPSD 219.110	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A	
	Filter Fabric	Location as Indicated in ESC Note #3	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A	
	Mud Mat		Drawing Details	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Developer's Contractor	Developer's Contractor	N/A	
	Dust Control	Location as Required Around Site	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A	
	Stabilized Material Stockpiling	Location as Required by Contractor	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Developer's Contractor	Developer's Contractor	N/A	
	Sediment Basin (for flows being pumped out of excavations)	Location as Required by Contractor	- - -	Developer's Contractor	Developer's Contractor	After Every Rainstorm	Developer's Contractor	Developer's Contractor	N/A	







LEGEND	
	PROPOSED BARRIER CURB
	PROPOSED DEPRESSED CURB
	DRAINAGE AREA LIMITS
	POST-DEVELOPMENT AREA ID
	POST-DEVELOPMENT DRAINAGE AREA (ha)
	1:5 YEAR WEIGHTED RUNOFF COEFFICIENT
	FFE FINISHED FLOOR ELEVATION
	TOF TOP OF FOUNDATION WALL ELEVATION
	USF UNDERSIDE OF FOOTING ELEVATION
	EXISTING STORM MH & SEWER
	EXISTING CATCHBASIN C/W CATCHBASIN LEAD
	PROPOSED STORM SEWER AND FLOW DIRECTION
	EMERGENCY OVERLAND FLOW ROUTE
	PROPOSED BUILDING ENTRANCE / EXIT

- 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.
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  - 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.
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  - REFER TO GEOTECHNICAL INVESTIGATION REPORT (PATERSON REPORT NUMBER PG8406-1 REVISION 3), DATED JULY 24 2024, PREPARED BY PATERSON GROUP INC. 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.
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  - REFER TO DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2020-130) 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.

INTERNAL SWM STORAGE SYSTEM			
DESIGN EVENT	STORAGE SYSTEM CONTROLLED FLOW	STORAGE VOLUMES	
		REQUIRED	PROVIDED
1:2 YR	4.1 L/s	19.9 m <sup>3</sup>	> 71 m <sup>3</sup>
1:5 YR		30.3 m <sup>3</sup>	
1:100 YR		70.9 m <sup>3</sup>	
NOTES:			
1. ALL DRAINAGE FROM AREA A-2 (ALL ROOF + DECK DRAINS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE SYSTEM. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR DETAILS.			
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**OWNER INFORMATION**  
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OTTAWA, ONTARIO, K1R 6Y6  
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admin@jenningsdevelopments.com

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SCALE	DESIGN
1:200	DM / SM
	CHECKED
	FST
	DRAWN
	DM
	CHECKED
	SM
	APPROVED
	FST

FOR REVIEW ONLY	

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LOCATION CITY OF OTTAWA 18 LOUISA STREET	
DRAWING NAME STORMWATER MANAGEMENT PLAN	
PROJECT No. 120206	REV REV # 4
DRAWING No. 120206-SWM	