

**LEGEND**

	PROPOSED BARRIER CURB		EXISTING CONCRETE CURB
	PROPOSED DEPRESSED CURB		EXISTING CATCHBASIN
	DRAINAGE AREA LIMITS		EXISTING UTILITY POLE
	POST-DEVELOPMENT AREA ID		EXISTING TREES/VEGETATION
	POST-DEVELOPMENT DRAINAGE AREA (ha)		EXISTING OVERHEAD UTILITY WIRES
	1.5 YEAR WEIGHTED RUNOFF COEFFICIENT		
	PROPOSED CURB INLET CATCHBASIN (PER HAWTHORNE RECONSTRUCTION PROJECT)		

- 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.
  - ALL ELEVATIONS ARE GEODETIC.
  - REFER TO GEOTECHNICAL INVESTIGATION REPORT (58-JBPA-R0, DATED AUGUST 04, 2022), PREPARED BY YURI MENDEZ ENGINEERING, 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 THE DEVELOPMENT SERVICES STUDY AND STORMWATER MANAGEMENT REPORT (R-2022-143) PREPARED BY NOVATECH.

- BENCHMARK NOTES:**
- ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, AND ARE REFERRED TO CITY OF OTTAWA BENCHMARK OTT 25, HAVING AN ELEVATION OF 69.613.
  - IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
  - TEMPORARY JOB BENCHMARK #1 DESCRIPTION IS LOCATED ON MAG NAIL IN CONCRETE SIDEWALK LOCATED APPROXIMATELY 18m NORTH OF THE NORTH PROPERTY BOUNDARY ALONG HAWTHORNE AVE. TEMPORARY BENCHMARK #2 DESCRIPTION IS MAG NAIL IN UTILITY POLE LOCATED ON BOULEVARD APPROXIMATELY 10m EAST FROM EAST PROPERTY BOUNDARY ALONG HAWTHORNE AVE. SEE TOPOGRAPHICAL PLAN OF SURVEY OF LOTS 2, 3, 4, 5 AND PART OF LOT 6, REGISTERED PLAN 220, CITY OF OTTAWA, SURVEYED BY ANNIS, O'SULLIVAN, VOLLEBECK LTD.
  - A NEW TEMPORARY BENCHMARK MAY BE REQUIRED IF EXISTING BENCHMARKS ARE DISTURBED DURING THE HAWTHORNE AVE. RECONSTRUCTION PROJECT. ALTERNATIVELY, CONTRACTOR MAY NEED TO USE HAWTHORNE AVENUE RECONSTRUCTION PROJECT BENCHMARKS.

**INTERNAL SWM STORAGE TANK**

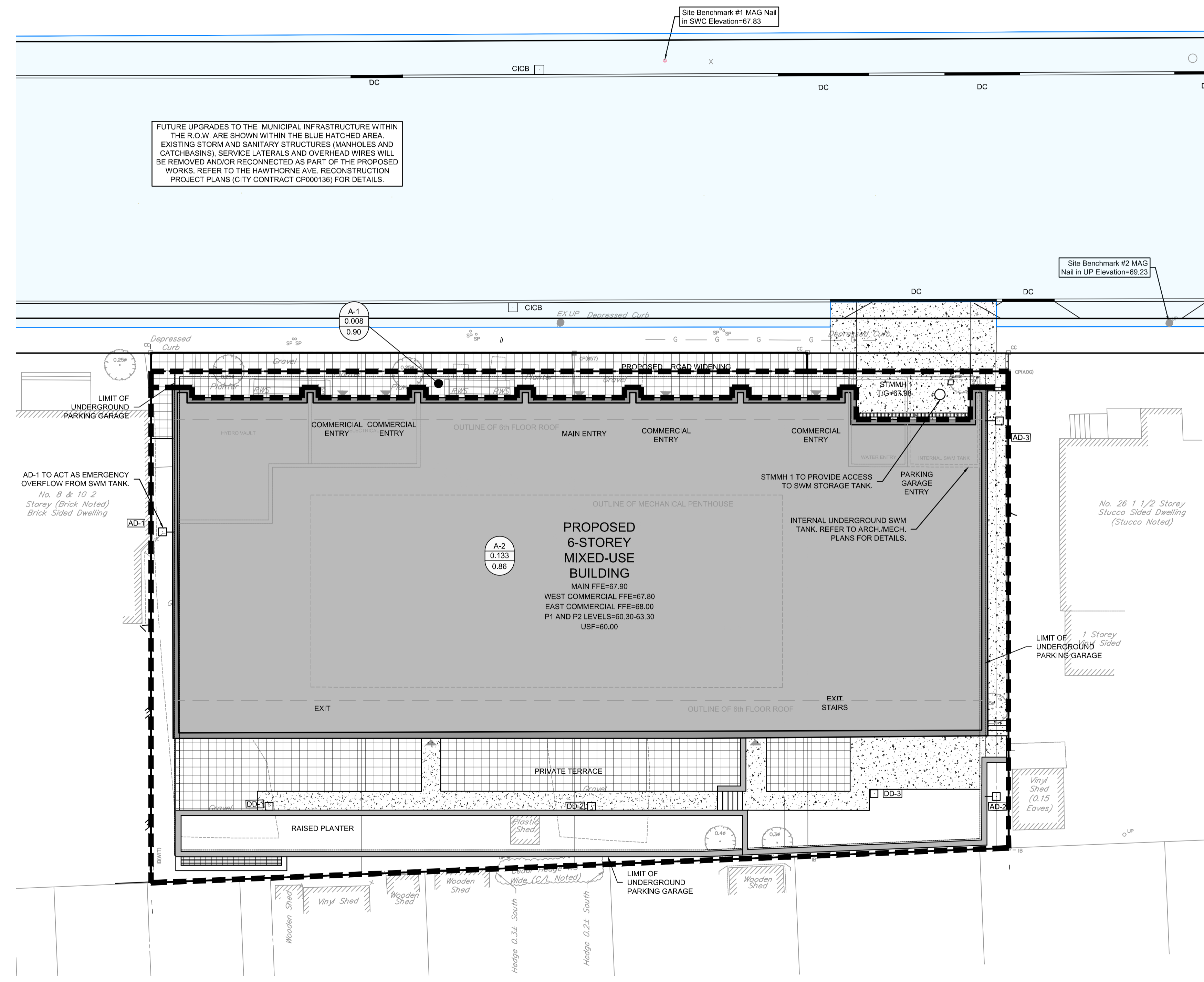
DESIGN EVENT	STORAGE SYSTEM CONTROLLED FLOW	STORAGE VOLUMES	
		REQUIRED	PROVIDED
1:2 YR		8.1 m <sup>3</sup>	
1:5 YR		14.1 m <sup>3</sup>	
1:100 YR	PUMPED FLOW RATE = 11.00 L/s	38.9 m <sup>3</sup>	>51 m <sup>3</sup>
1:100+20%		50.8 m <sup>3</sup>	

- NOTES:**
- ALL DRAINAGE FROM AREA A-2 (PROPOSED AMENITY AREA DECK DRAINS/AREA DRAINS AND ALL ROOF DRAINS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE SYSTEM. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR DETAILS.
  - REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT SIZE AND DETAILS OF INTERNAL STORMWATER STORAGE SYSTEM.
  - REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATION AND CONNECTIONS AND DETAILS OF THE INTERNAL STORMWATER STORAGE SYSTEM.

**PROPOSED SITE FLOWS & STORMWATER MANAGEMENT TABLE**

DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS		POST-DEVELOPMENT CONDITIONS				
	UNCONTROLLED FLOWS (L/s)	ALLOWABLE RELEASE RATE (L/s)	A-1 FLOW (L/s)	A-2 FLOW (L/s)	TOTAL FLOW (L/s)	TOTAL REQUIRED STORAGE (m <sup>3</sup> )	REDUCTION IN FLOW (L/s or %)*
1:2 YR	17.3	15.1	1.5	11.0	12.3	8.1	4.8 or 28%
1:5 YR	23.5		2.1		13.1	14.1	10.4 or 44%
1:100 YR	48.4		4.0		15.0	38.9	31.4 or 68%

\*REDUCED FLOW COMPARED TO UNCONTROLLED PRE-DEVELOPMENT CONDITIONS FROM THE CURRENT 0.141 HA SITE AREA.



FUTURE UPGRADES TO THE MUNICIPAL INFRASTRUCTURE WITHIN THE R.O.W. ARE SHOWN WITHIN THE BLUE HATCHED AREA. EXISTING STORM AND SANITARY STRUCTURES (MANHOLES AND CATCHBASINS), SERVICE LATERALS AND OVERHEAD WIRES WILL BE REMOVED AND/OR RECONNECTED AS PART OF THE PROPOSED WORKS. REFER TO THE HAWTHORNE AVE. RECONSTRUCTION PROJECT PLANS (CITY CONTRACT CP000136) FOR DETAILS.

**PROPOSED 6-STORY MIXED-USE BUILDING**  
 MAIN FFE=67.90  
 WEST COMMERCIAL FFE=67.80  
 EAST COMMERCIAL FFE=68.00  
 P1 AND P2 LEVELS=60.30-63.30  
 USF=60.00

**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.

**OWNER INFORMATION**  
 JBPA Developments Inc.  
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 Ottawa, ON, K1S 1W8

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No.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN CONTROL APPROVAL	APRIL 12/23	FST

**SCALE**  
 1:150

**DESIGN**  
 CVZA  
 CHECKED FST  
 DRAWN ZA  
 CHECKED FST  
 APPROVED FST

**FOR REVIEW ONLY**

**PROFESSIONAL ENGINEER**  
 F.S. THAUETTE  
 100041299  
 APR 12, 2023  
 PROVINCE OF ONTARIO

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

**LOCATION**  
 CITY OF OTTAWA  
 12-24 HAWTHORNE AVENUE

**DRAWING NAME**  
 POST-DEVELOPMENT STORM DRAINAGE PLAN

**PROJECT No.** 122152  
**REV** REV # 1  
**DRAWING No.** 122152-STM2  
**PLAN #**

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