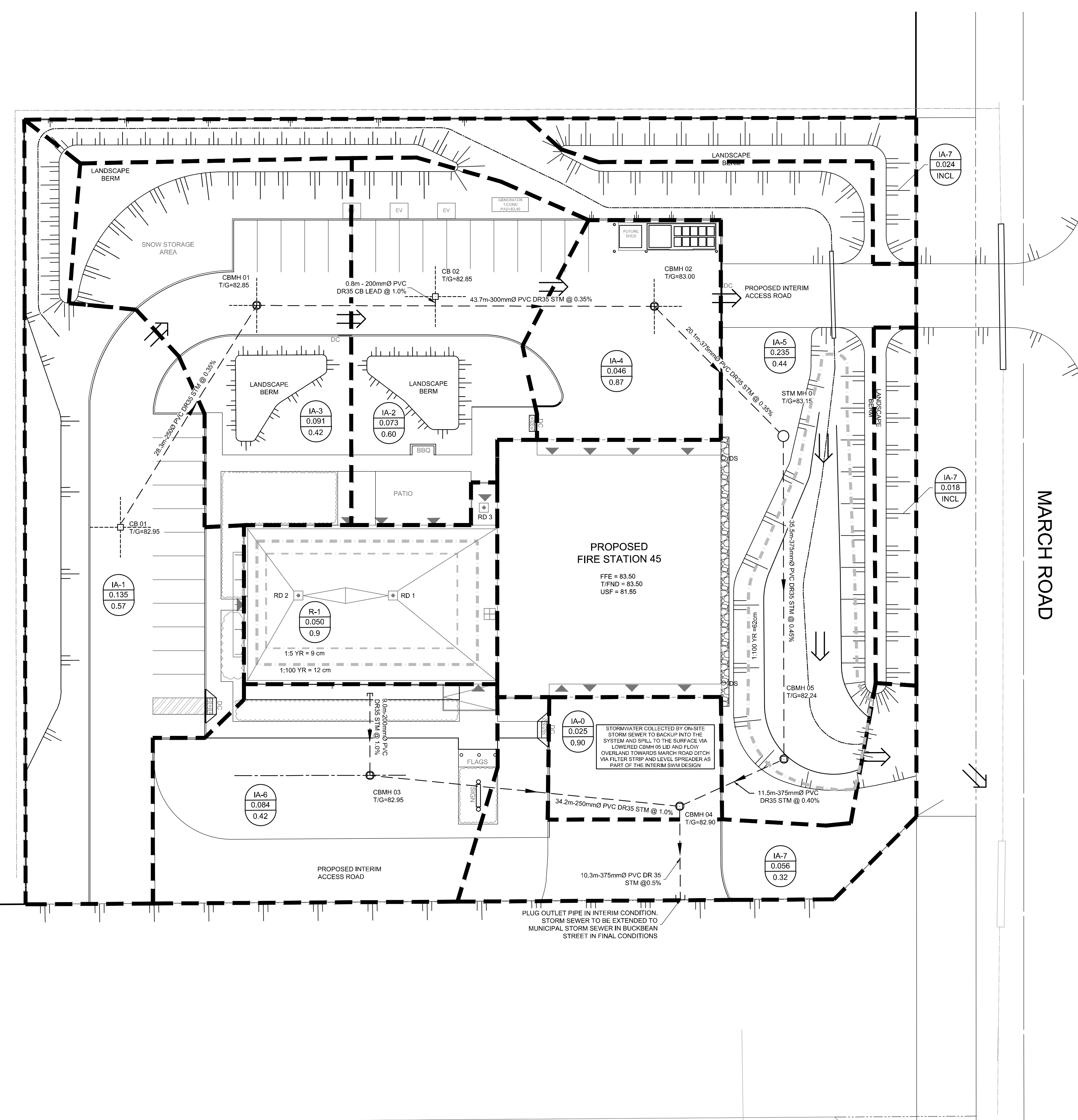
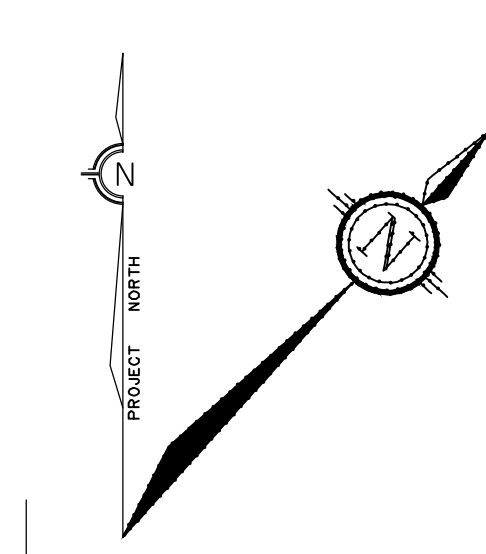
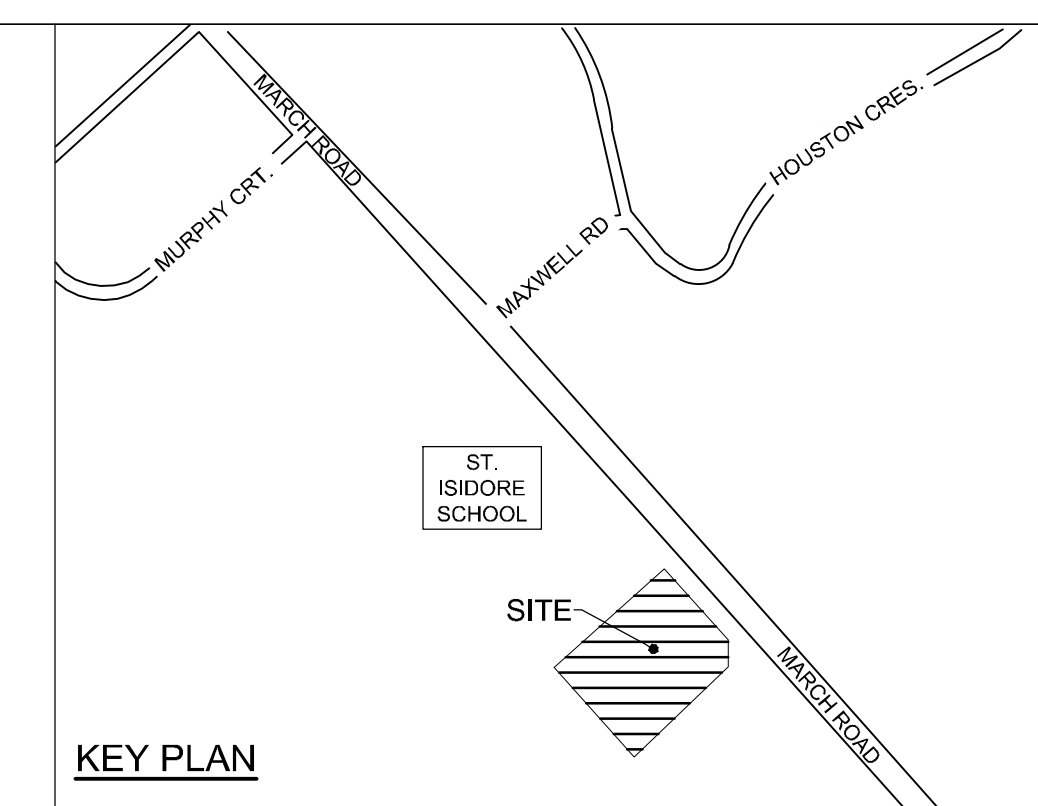


**LEGEND**

	PROPOSED BARRIER CURB		SAN MH 01		PROPOSED SANITARY MANHOLE		T/FND	TOP OF FOUNDATION WALL ELEVATION		CBM1	EXISTING CATCHBASIN
	PROPOSED DEPRESSED CURB		STM MH 03		PROPOSED STORM MANHOLE		USF	UNDERSIDE OF FOOTING ELEVATION		CB	EXISTING CATCHBASIN MH
	DRAINAGE AREA LIMITS		HYD		PROPOSED HYDRANT AND VALVE		BUILDING ENTRANCE / EXIT	EXISTING CONCRETE CURB		EX UP	EXISTING UTILITY POLE OHV GUY WIRES
	POST-DEVELOPMENT AREA ID		CBM 01		PROPOSED CATCHBASIN MANHOLE		EXISTING VALVE & VALVE BOX				APPROXIMATE PONDING LIMITS
	POST-DEVELOPMENT DRAINAGE AREA (ha)		CB 02		PROPOSED CATCHBASIN		EXISTING SERVICE POST				
	1.5 YEAR WEIGHTED RUNOFF COEFFICIENT				EMERGENCY OVERLAND FLOW ROUTE		EXISTING HYDRANT				
	MAXIMUM 3:1 SIDESLOPE				PROPOSED HYDRO TRANSFORMER						
	PROPOSED TERRACE ELEVATION		FFE		FINISHED FLOOR ELEVATION						



**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.
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- 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 THE CITY OF OTTAWA AND ENGINEER.
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- ALL ELEVATIONS ARE GEODETIC.
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- REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2022-090) PREPARED BY NOVATECH.
- SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

**PROPOSED SITE FLOWS & STORMWATER MANAGEMENT TABLE**

DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS	POST-DEVELOPMENT CONDITIONS - INTERM CONDITIONS					
	ALLOWABLE RELEASE RATE (L/s)	IA-0 TO IA-6 CONTROLLED FLOW (L/s)	IA-7 DIRECT RUNOFF (L/s)	R-1 CONTROLLED FLOW (L/s)	TOTAL FLOW (L/s)	TOTAL REQUIRED STORAGE (m <sup>3</sup> )	REDUCTION IN FLOW (L/s or %)
1:2 YR	35.7	10.3	6.6	1.8	18.7	55.4	17.0 or 47%
1:5 YR	48.5	12.2	9.0	2.4	23.6	78.4	24.9 or 51%
1:100 YR	103.9	18.3	18.2	3.3	37.8	172.6	66.1 or 64%

**PROPOSED ROOF DRAIN TABLE: AREA R-1 (RD1, RD2 AND RD3)**

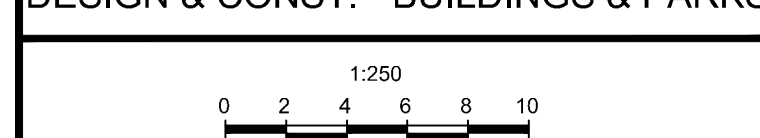
AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	FULLY EXPOSED	1.07 L/s	9 cm	1.39 L/s	12 cm
R-1	RD 2 (RD-100-A-ADJ)	FULLY EXPOSED	1.07 L/s	9 cm	1.39 L/s	12 cm
R-1	RD 3 (RD-100-A-ADJ)	-	0.26 L/s	-	0.50 L/s	-

\* REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2022-090) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.



PORTFEUILLE DE L'URBANISME ET DE L'INFRASTRUCTURE  
DÉPARTEMENT DES SERVICES D'INFRASTRUCTURE  
DIRECTION DE CONCEPTION ET DE CONSTRUCTION - IMMEUBLES ET DES PARCS

FOR / POUR  
INFRASTRUCTURE SERVICES & COMMUNITY SUSTAINABILITY  
INFRASTRUCTURE SERVICES  
DESIGN & CONST. - BUILDINGS & PARKS



**NOVATECH**  
Engineers, Planners & Landscape Architects

Suite 200, 240 Michael Cowland Drive  
Ottawa, Ontario, Canada K2M 1P5  
Telephone: (613) 254-9643  
Facsimile: (613) 254-5867  
Website: www.novatech-eng.com

NUMBER	DESCRIPTION	DATE	INITIALS
1	ISSUED FOR SITE PLAN APPROVAL	2022/09	FST

DESIGNED BY / CONÇU PAR FST/DMM	CHECKED BY / VÉRIFIÉ PAR FST
DRAWN BY / DÉSSINÉ PAR DMM	SCALE / ÉCHELLE 1:250

**DRAWING TITLE**  
1: A1.1  
SCALE:  
SHEET NUMBER

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

*Professional Engineer*  
F.S. THAUETTE  
100041399  
DEC 09, 2022  
PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL	CONSULTANT / EXPERT-CONSEIL
-----------------------------	-----------------------------

PROJECT / LOCATION / PROJET / ENDROIT  
**FIRE STATION 45**

1075-A MARCH ROAD  
OTTAWA, ONTARIO

DRAWING / DESSIN  
**STORMWATER MANAGEMENT PLAN  
INTERM CONDITIONS**

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ  
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

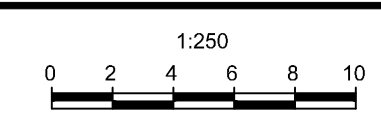
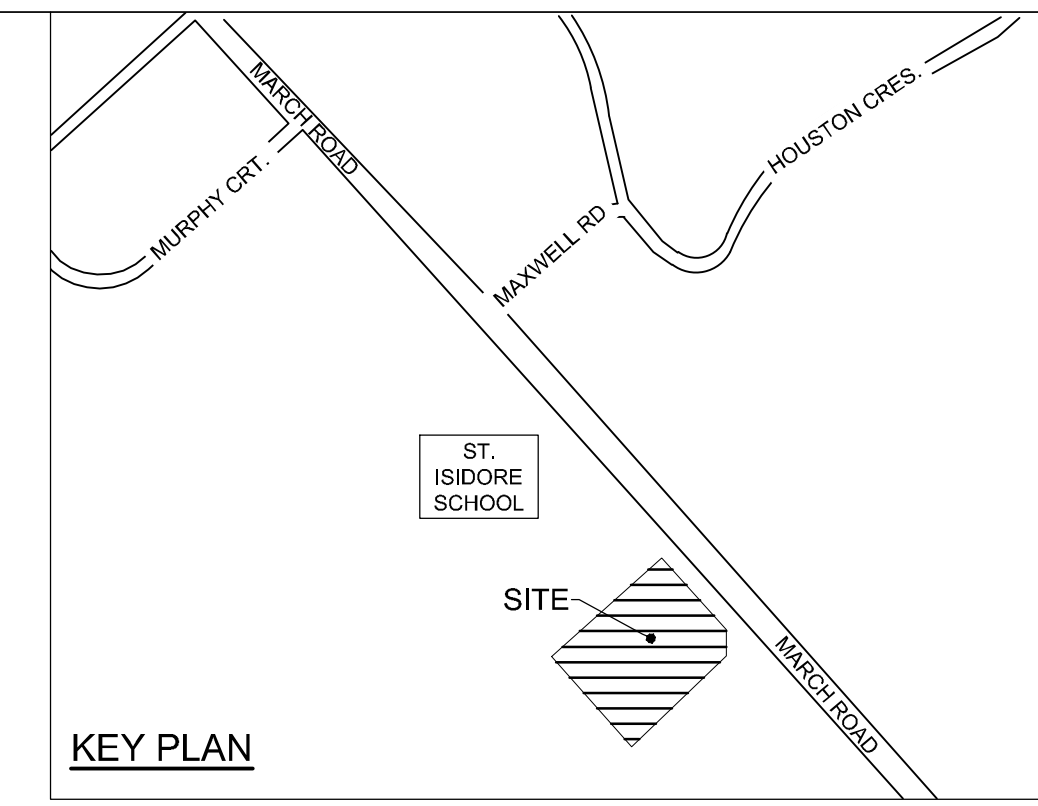
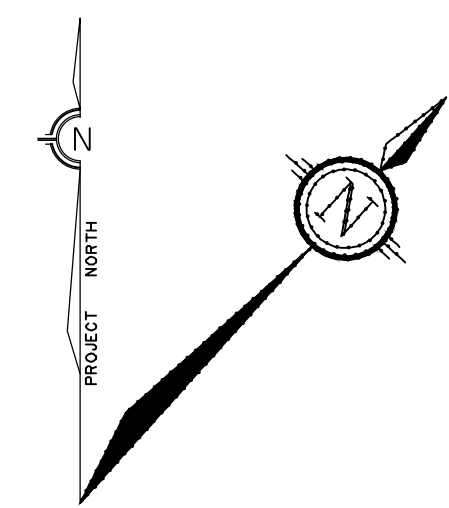
SHEET NO. / FEUILLE NO.  
**C3.0**

CITY PROJECT NO. / NUMÉRO DE PROJET  
122089

D07-12-22-0090

**LEGEND**

- DC PROPOSED BARRIER CURB
- DC PROPOSED DEPRESSED CURB
- DRAINAGE AREA LIMITS
- (A-1) POST-DEVELOPMENT AREA ID
- (A-1) POST-DEVELOPMENT DRAINAGE AREA (ha)
- 1.5 YEAR WEIGHTED RUNOFF COEFFICIENT
- 83.50 MAXIMUM 3:1 SIDESLOPE
- 83.50 PROPOSED TERRACE ELEVATION
- SAN MH 01 PROPOSED SANITARY MANHOLE
- STM MH 03 PROPOSED STORM MANHOLE
- HYD PROPOSED HYDRANT AND VALVE
- CBMH 01 PROPOSED CATCHBASIN MANHOLE
- CB 02 PROPOSED CATCHBASIN
- EMERGENCY OVERLAND FLOW ROUTE
- FFE PROPOSED HYDRO TRANSFORMER
- FINISHED FLOOR ELEVATION
- T/FND TOP OF FOUNDATION WALL ELEVATION
- USF UNDERSIDE OF FOOTING ELEVATION
- BUILDING ENTRANCE / EXIT
- EXISTING CONCRETE CURB
- EXISTING VALVE & VALVE BOX
- EXISTING SERVICE POST
- EXISTING HYDRANT
- EXISTING CATCHBASIN
- EXISTING CATCHBASIN MH
- EXISTING UTILITY POLE
- EXISTING GUY WIRES
- APPROXIMATE PONDING LIMITS
- 1.5 YR
- 1:100 YR



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NUMBER	DATE	DESCRIPTION	INITIALS
5	2023/09	ISSUED FOR SITE PLAN APPROVAL	FST
4	22/06/23	ISSUED FOR 90% REVIEW	FST
3	22/06/23	REVISED PER CITY COMMENTS	FST
2	22/06/23	ISSUED FOR 30% REVIEW	FST
1	22/05/23	ISSUED FOR SPC APPROVAL	FST

DESIGNED BY / CONCEPTEUR	CREATED BY / VÉRIFIÉ PAR
FST/DMM	FST
DRAWN BY / DÉSSINÉ PAR	SCALE / ÉCHELLE
DMM	1:250

DETAIL NUMBER	DRAWING TITLE	SHEET NUMBER
1	A1.1	1

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

**LIBERATED PROFESSIONAL ENGINEER**  
 F.S. THAUDETTE  
 100041599  
 DEC 09, 2022  
 PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL	CONSULTANT / EXPERT-CONSEIL
-----------------------------	-----------------------------

PROJECT / LOCATION / PROJET / ENDROIT  
**FIRE STATION 45**

1075-A MARCH ROAD  
 OTTAWA, ONTARIO

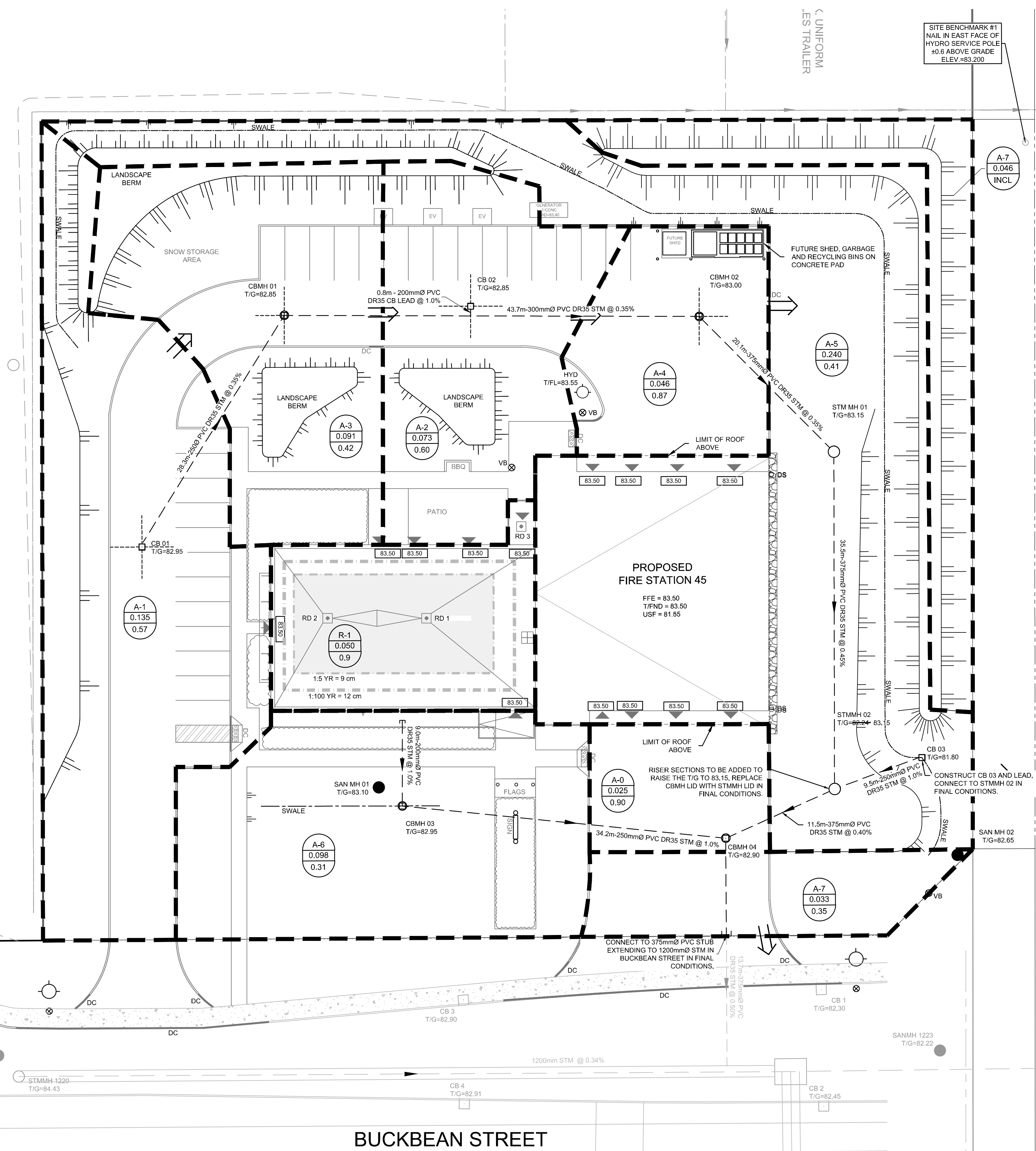
DRAWING / DESSIN  
**STORMWATER MANAGEMENT PLAN FINAL CONDITIONS**

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ	SHEET NO. / FEUILLE NO.
BUILDING NUMBER / NUMÉRO DU BÂTIMENT	
CITY PROJECT NO. / NUMÉRO DE PROJET	CONS. PROJECT NO. / NUMÉRO DE PROJET
122089	<b>C3.1</b>

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MARCH ROAD



**PROPOSED SITE FLOWS & STORMWATER MANAGEMENT TABLE**

DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS	POST-DEVELOPMENT CONDITIONS				
	ALLOWABLE RELEASE RATE (L/s)	A-0 TO A-6 UNCONTROLLED FLOW (L/s)	A-7 DIRECT RUNOFF (L/s)	R-1 CONTROLLED FLOW (L/s)	TOTAL FLOW (L/s)	REDUCTION IN FLOW (L/s or %)
1.5 YR	221.9	101.8	8.1	2.4	112.3	109.6 or 49%
1:100 YR		119.8	16.2	3.3	219.1	2.8 or 1.2%

**PROPOSED ROOF DRAIN TABLE: AREA R-1 (RD1, RD2 AND RD3)**

AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	FULLY EXPOSED	1.07 L/s	9 cm	1.39 L/s	12 cm
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R-1	RD 3 (RD-100-A-ADJ)	FULLY EXPOSED	0.26 L/s	-	0.50 L/s	-

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D07-12-22-0090