

<u>LEGEND</u>

PROPERTY LINE

PRE

PRE-DEVELOPMENT DRAINAGE AREA (ha) PRE-DEVELOPMENT AREA ID 1:5 YEAR WEIGHTED RUNOFF COEFICIENT

DIRECTION OF MAJOR OVERLAND FLOW

PROPOSED ELEVATION (PER U-HAUL DESIGN) EXISTING ELEVATION

> EXISTING CATCHBASIN MANHOLE EXISTING STORM MANHOLE EXISTING CATCHBASIN

EXISTING LIGHT STANDARD

EXISTING CONCRETE CURB

EXISTING HYDTRANT & VALVE EXISTING TREES / VEGETATION

EXISTING FENCE

GENERAL NOTES:

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. 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.
- 3. ALL ELEVATIONS ARE GEODETIC.
- 4. REFER TO GEOTECHNICAL REPORT (NO. 02211293.000, DATED MAY 10, 2023), PREPARED BY ENGLOBE CORP., 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.
- 5. REFER TO THE DEVELOPMENT SERVICING STUDY & STORMWATER MANAGEMENT REPORT (R-2023-014) PREPARED BY NOVATECH.

BENCHMARK NOTES:

- 1. ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM (CGVD28:78) AND ARE DERIVED FROM PUBLISHED CONTROL MONUMENT 00119883075 HAVING A PUBLISHED ELEVATION OF 90.612 METRES.
- 2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE SITE BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
- 3. BENCHMARK WAS PROVIDED ON PLAN OF SURVEY SHOWING TOPOGRAPHIC DETAIL OF PART OF BLOCK 2, REGISTERED PLAN 4M-1012, CITY OF OTTAWA, SURVEYED BY J.D. BARNES LIMITED.

REFER TO PLAN 123002-D FOR CIVIL DETAILS

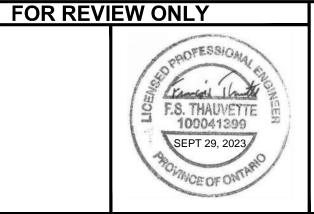
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.

OWNER INFORMATION 401 REAL ESTATE TRUST INC. 2225 EAGLE STREET N, CAMBRIDGE, ONTARIO, N3H 4R7 TED LANCASTER PHONE: (705) 816-6355 ted.lancaster@401auto.ca

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Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6 (613) 254-9643 Telephone (613) 254-5867 Facsimile

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Website

DRAWING NAME

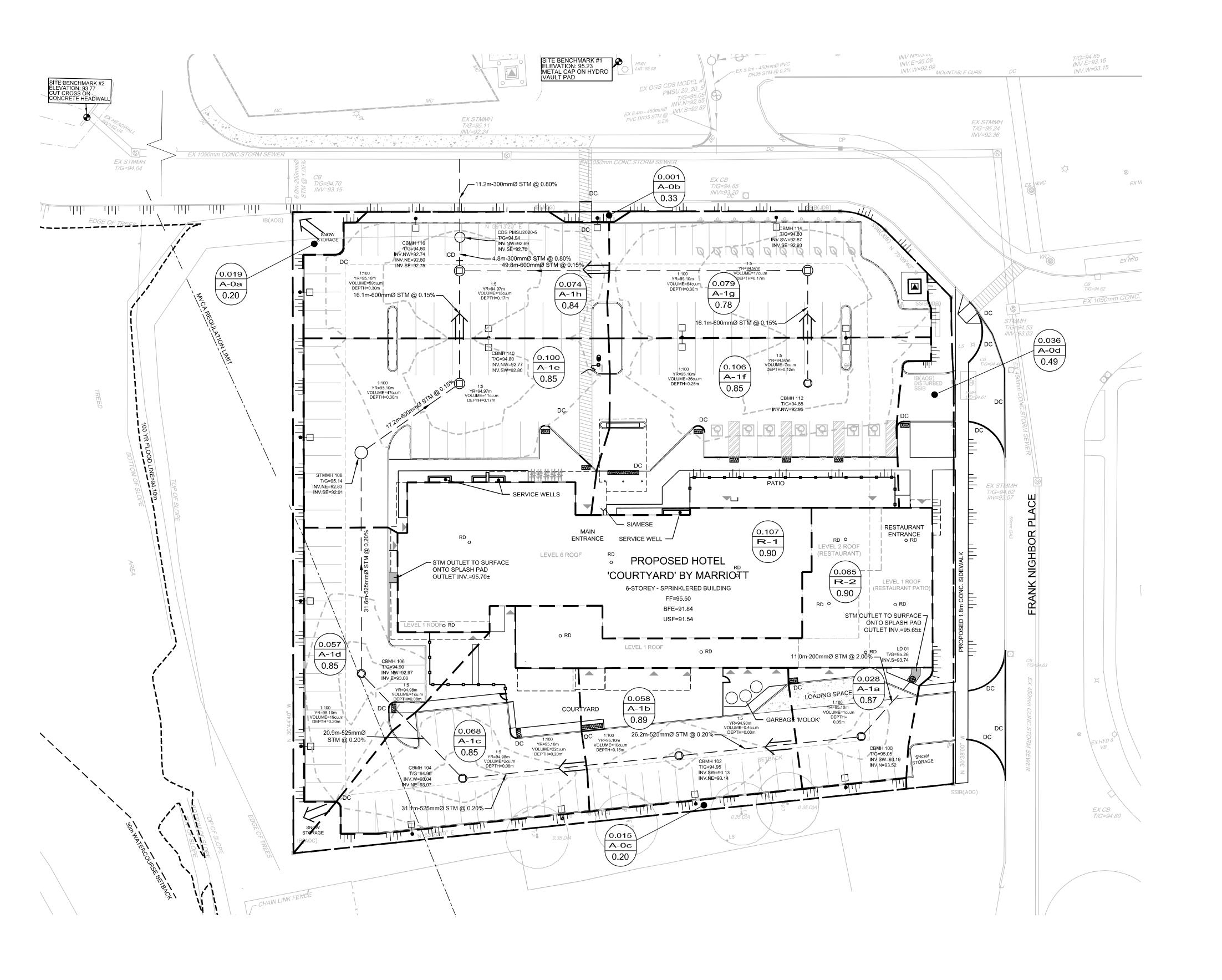
CITY OF OTTAWA 40 FRANK NIGHBOR PLACE

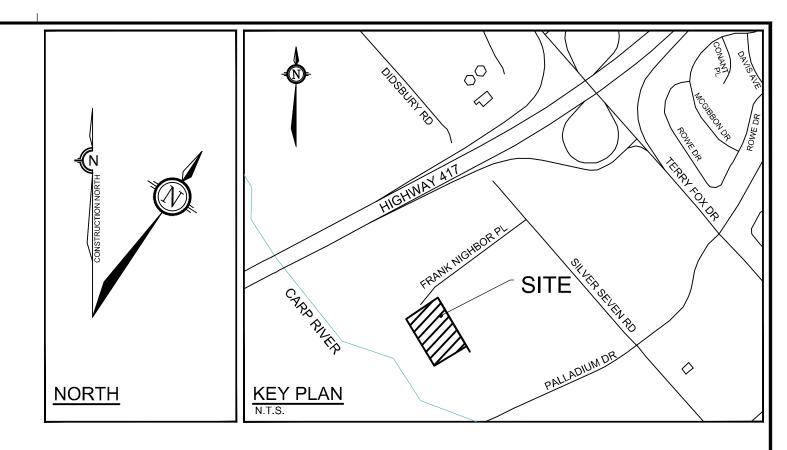
PRE-DEVELOPMENT STORM DRAINAGE AREA PLAN

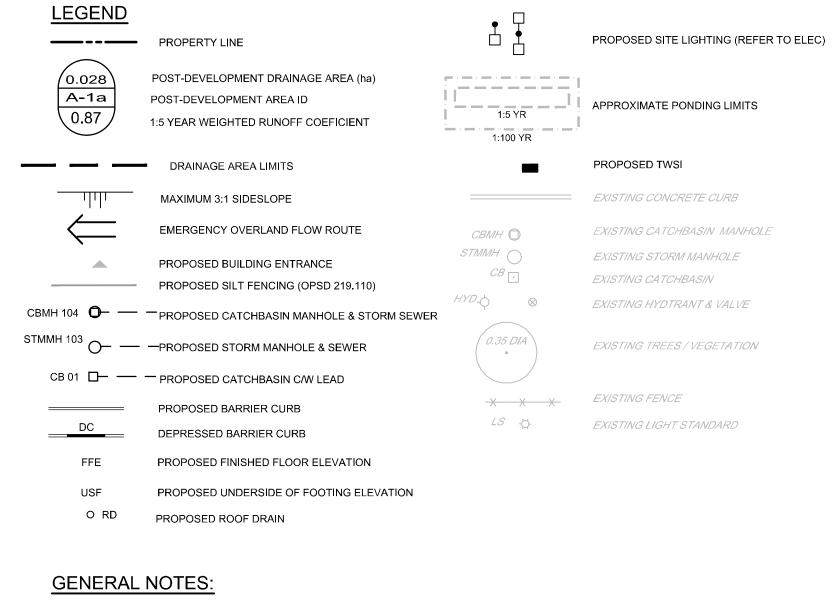
123002-STM1

Plan #19002

REV#







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ICD TABLE - CBMH116 (AREAS A-1a TO A-1h, R-1 & R-2)						
DESIGN TYPE OF ICD		DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD* (m)	PONDING ELEV. (m)	VOLUME* (m³)
1:2 YR	109mm DIA. ORIFICE PLATE	300	31.6	1.57	94.79	78
1:5 YR			31.3	1.54	94.97	132
1:100 YR			25.2	1.08	95.10	337

CONDITION IN TABLE 3.3 OF THE DSS&SWM REPORT (ACCOUNTS FOR BACKWATER EFFECT / DEAD STORAGE). ** REFER TO TABLE 3.5 IN THE DSS&SWM REPORT (R-2023-014) FOR A BREAKDOWN OF VOLUME INTO DEAD AND ACTIVE STORAGE.

	SITE FLOWS & STORMWATER MANAGEMENT TABLE					
	PRE-DEVELOPMENT CONDITIONS		POST-DEVELOPMENT CONDITIONS			
DESIGN EVENT	UNCONTROLLED FLOW (L/s)	RELEASE	A-0a TO A0-d DIRECT RUNOFF (L/s)	A-1a TO A-1h, R-1 & R-2 FLOW (L/s)	TOTAL FLOW (L/s)	CHANGE FROM PRE TO POST (L/s or %)*
1:2 YR	34.7		5.3	31.6	36.9	2.2 or 6%
1:5 YR	47.1	40.7	7.2	31.3	38.5	-8.6 or -18%
1:100 YR	100.9		14.4	25.2	39.6	-61.3 or -61%

* COMPARED TO PRE-DEVELOPMENT CONDITIONS (NEGATIVE VALUES REPRESENT DECREASE BETWEEN PRE-DEVELOPMENT FLOWS AND POST-DEVELOPMENT FLOWS).

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CITY OF OTTAWA 40 FRANK NIGHBOR PLACE DRAWING NAME POST-DEVELOPMENT STORM

12300 DRAINAGE AREA PLAN REV# 123002-STM2

Plan #19002