

STM STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
DICB6	100.40		W98.840	STRUC OPSD 705.030 TYPE 'A' GRATE (3H:1V) C/W 75mm ORIFICE AT OUTLET
LSCB2	101.46		E100.428	PER CITY STANDARD S31
LSCB3	101.30	W100.264	\$100.241	PER CITY STANDARD S30
LSCB4	101.11	N100.057	\$100.030	PER CITY STANDARD S30
LSCB5	100.73	N99.570	SW99.533	PER CITY STANDARD S30
STMH1	100.32	N99.220 E98.751	W98.689	COVER CITY S24.1 FRAME CITY S25 STRUC OPSD 701.010
STMH2	100.88	N99.790	\$99.763	COVER CITY S24.1 FRAME CITY S25 STRUC OPSD 701.010
STMH3	101.23	E99.940	S99.907	COVER CITY S24.1 FRAME CITY S25 STRUC OPSD 701.010

SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1	101.22	E99.620	\$99.593	COVER CITY S24 FRAME CITY S25 STRUC OPSD 701.010
MH2	100.90	N99.380	\$99.348	COVER CITY S24 FRAME CITY S25 STRUC OPSD 701.010

CROSSING CONFLICT TABLE

LOCATION	DESCRIPTION	SEPARATION
1	250mmØ STM SERVICE INV 98.68 150mmØ SAN SERVICE OBV 98.38	0.30
2	250mmØ PROP. STM SERVICE INV 99.29 250mmØ EX. STM SERVICE OBV 98.93	0.36
3	250mmØ STM SERVICE INV 99.71 150mmØ SAN SERVICE OBV ± 99.41	0.30
4	250mmØ PROP. STM SERVICE INV 99.71 200mmØ EX. STM SERVICE OBV ±99.27	0.44
5	250mmØ STM SERVICE INV 99.87 150mmØ EX WTR SERVICE TOP ±98.62	1.25
6	150mmØ STM SERVICE INV 98.78 150mmØ EX WTR SERVICE TOP ±97.95	0.83

TYPE OF CONTROL DEVICE	WATTS DRAINA (FULLY I	GE RD-100-A-A EXPOSED)
NUMBER OF ROOF DRAINS		4
	E VEAD	100 VEAD

ROOF DRAINS (B1)

NUMBER OF ROOF DRAINS		4
	5-YEAR	100-YEAR
ROOFTOP STORAGE (m ³)	21.01	39.01
DEPTH OF FLOW (m)	0.035	0.065
FLOW PER ROOF DRAIN (L/s)	0.42	0.78
TOTAL FLOW (L/s)	1.68	3.12
DRAW DOWN TIME	208 min	208 min

ROOF DRAINS (B2)			
TYPE OF CONTROL DEVICE	VICE WATTS DRAINAGE RD-100-A-A (FULLY EXPOSED)		
NUMBER OF ROOF DRAINS	1		
	5-YEAR	100-YEAR	
ROOFTOP STORAGE (m ³)	2.44	4.89	
DEPTH OF FLOW (m)	0.030	0.060	
FLOW PER ROOF DRAIN (L/s)	0.36	0.72	
TOTAL FLOW (L/s)	0.36	0.72	
DRAW DOWN TIME	113 min	113 min	

GENERAL NOTES

- 1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION
- 2. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) FAIRHALL MOFFAT & WOODLAND DRAWING 318 (a)-10 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
- 3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.

CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.

- ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES. 7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIA SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY
- 8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95%

WATERMAIN NOTES

- 1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- 2. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- 3. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
- 4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- 5. VALVES TO BE OPERATED BY CITY STAFF ONLY.
- 6. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN

CONNECTION. CONNECTION, EXCAVATION, BACKFILLING

AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.

- 7. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING
- 8. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.

CONSTRUCTION.

- 9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- 10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.

- DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY.
- PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING
- 5. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE
- 6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD
- STANDARD PROCTOR DENSITY.

SEWER NOTES:

- 1. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE. 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A". COMPACTED TO MINIMUM 95%
 - BEDDING SHALL NOT BE PERMITTED. 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.

STANDARD PROCTOR DRY DENSITY. CLEAR STONE

9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION

CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION

11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL

PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF

ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC

12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE

13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF

14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO

UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND

SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE

PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO

SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR

PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED

CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS

15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS

16. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND

STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND THE

17. CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE

GEOTECHNICAL INVESTIGATION COMPLETED BY GEMTEC, DATED

18. ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS

19. THIS PLAN MUST BE READ IN CONJUNCTION WITH THE

OR BETTER LINI ESS OTHERWISE SPECIFIED.

DRAINAGE AWAY FROM THE BUILDING.

ARE SUBJECT TO THE INDIVIDUAL AGENCY:

FOLLOWED DURING CONSTRUCTION

OTHERWISE SPECIFIED.

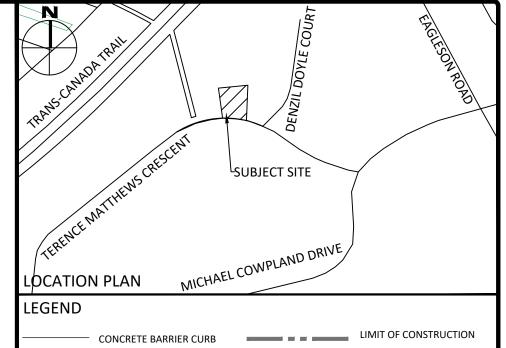
OCTOBER 20th, 2022

• ELECTRICAL SERVICE - HYDRO ONE,

GAS SERVICE - ENBRIDGE,
 TELEPHONE SERVICE - BELL CANADA,
 TELEVISION SERVICE - ROGERS.

OF THE ENGINEER/CITY.

- 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
 - 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
 - 3. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
 - 4. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
 - 5. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
 - 6. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.
 - 7. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"X8' LONG MARKER.
 - 8. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
 - 9. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.



- DRAINAGE SWALE CONCRETE WALKWAY PROPOSED ASPHALT — · · · — · · · — DRAINAGE DITCH PROPOSED PAVERS

E)LSCB# LANDSCAPING CATCHBASIN SURFACE ELEVATION CATCHBASIN MANHOLE SWALE ELEVATION CATCHBASIN

TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATIO ^B/W 94.25 SANITARY SEWER MANHOLE OVERLAND FLOW ROUTE SILT FENCE BARRIER WATER VALVE MUD MAT

> WATER METER DEPRESSED CURB REMOTE WATER METER

ROOF DRAIN LOCATION PER DS STUDIO ROOF PLAN ROOF SCUPPER LOCATION PER DS STUDIO ROOF PLAN

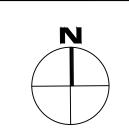
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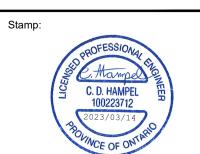
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Check and verify all dimensions Do not scale drawings before proceeding with the work SCALE 1:250

McINTOSH PERRY

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DS STUDIO INC 95 PELHAM AVENUE TORONTO, ON M6N 1A5

BUILDING ADDITION 100 TERENCE MATTHEWS CRESCENT

Drawing Title:

SITE SERVICING PLAN

1:250 CCO-23-0422

MOLLY SMITH

PLANNER II

PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT

DEPARTMENT, CITY OF OTTAWA

APPROVED By Molly Smith at 3:28 pm, Apr 21, 2023