SEWER NOTES

- CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
- BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
- 4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
- 5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A"
- 6. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE
- PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED
- INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 1.5m OF COVER WITH THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22.
- 9. 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.
- 10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ONSITE, 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 &
- 11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.

WATERMAIN NOTES

- CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
- INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT.
- COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030. 4. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE

WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM

5. USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP

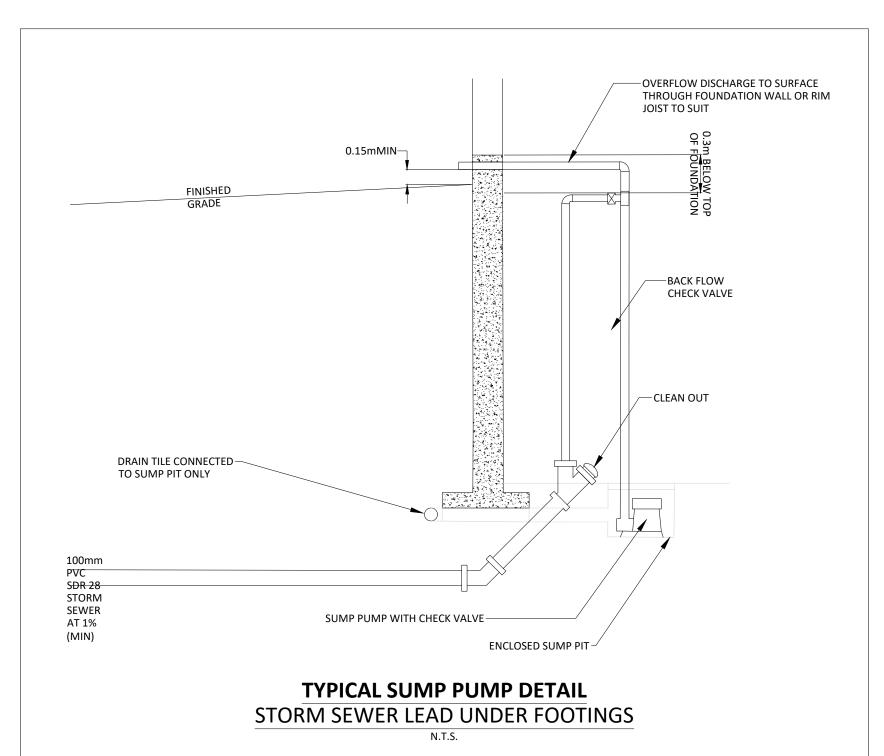
- THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
- AS PER CITY OF OTTAWA STANDARD DRAWING 'W26'.
- 6. CONNECTION TO EXISTING BY CITY FORCES. EXCAVATION, BACKFILLING AND REINSTATEMENT IS TO BE COMPLETED BY THE CONTRACTOR.
- SWABING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS

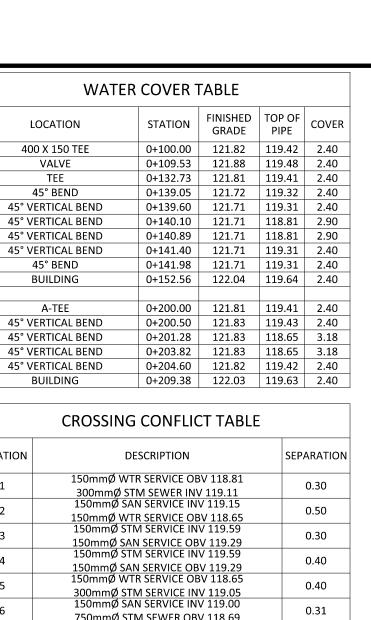
GENERAL NOTES

- 1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- 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, MOFFATT, WOODLAND LTD. SURVEY PLAN #AA15600 DATED APRIL 16, 2020 AND CANNOT BE RELÍED 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 PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.

• TELEVISION SERVICE - ROGERS.

- 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 CONTRACTOR IS
- 6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER HAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
- 7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
- 8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.
- 11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE CITY.
- 12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE
- 13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOD.
- 14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
- 15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY: • ELECTRICAL SERVICE - HYDRO OTTAWA, GAS SERVICE - ENBRIDGE,
 TELEPHONE SERVICE - BELL CANADA,
- 17. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL AND THE CITY.
- 18. ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB AS PER CITY OF OTTAWA STANDARD DRAWING SC1.1 UNLESS SPECIFIED.
- 19. ALL EXISTING REDUNDANT PRIVATE APPROACHES FRONTING THIS DEVELOPMENT MUST BE REMOVED TO THE
- 20. NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBORING
- 21. NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES.





LOCATION	DESCRIPTION	SEPARATION
1	150mmØ WTR SERVICE OBV 118.81	0.30
	300mmØ STM SEWER INV 119.11	
2	150mmØ SAN SERVICE INV 119.15	0.50
_	150mmØ WTR SERVICE OBV 118.65 150mmØ STM SERVICE INV 119.59	
3		0.30
	150mmØ SAN SERVICE OBV 119.29	
4	150mmØ STM SERVICE INV 119.59	0.40
	150mmØ SAN SERVICE OBV 119.29	
5	150mmØ WTR SERVICE OBV 118.65	0.40
	300mmØ STM SERVICE INV 119.05	
6	150mmØ SAN SERVICE INV 119.00	0.31
	750mmØ STM SEWER OBV 118.69 150mmØ WTR SERVICE INV 119.29	
7		0.58
	750mmØ STM SEWER TOP 118.71 150mmØ WTR SERVICE INV 119.31	
8		0.30
	250mmØ SAN SEWER OBV 119.01	
	CTO DA 4 CTD CT D =	
	STORM STRUCTURE TABLE	
RIM		

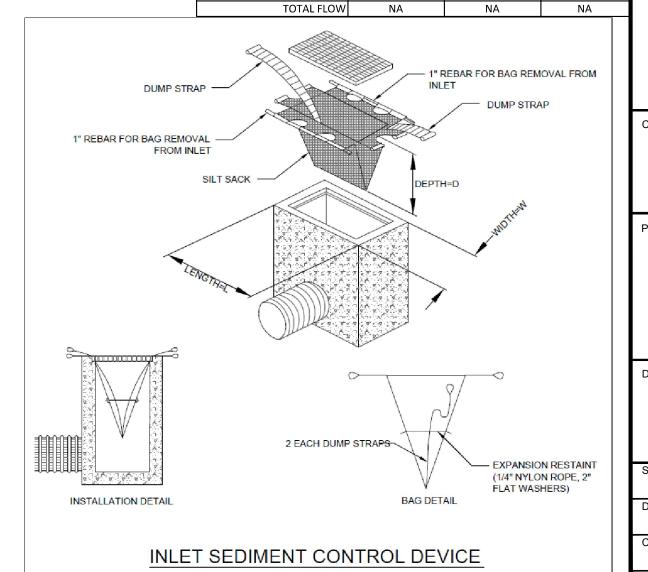
STORM STRUCTURE TABLE							
RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION				
121.50	SW119.220 N120.432	NE119.200	COVER CITY STD S28.1 FRAME CITY STD S25 STRUC. OPSD 701.010				
121.79		S120.590	CITY STD DWG S31				
121.70		NE119.397	CITY STD DWG S31				
121.88	SW118.917	NE118.358	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010				
121.81	SW119.024	NE119.000	STORMCEPTOR EF04 OR APPROVED EQUILVALENT SUMP DEPTH 1.524m				
	121.50 121.79 121.70 121.88	RIM ELEV. INVERT IN 121.50 SW119.220 N120.432 121.79 121.70 121.88 SW118.917	RIM ELEV. INVERT IN INVERT OUT 121.50 SW119.220 NE119.200 121.79 S120.590 121.70 NE119.397 121.88 SW118.917 NE118.358				

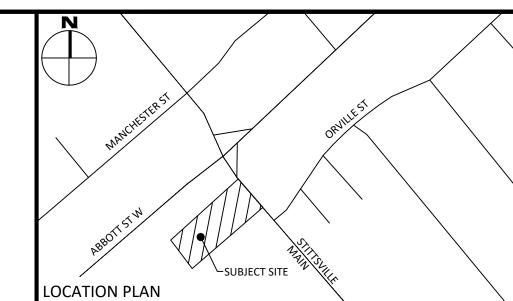
SAN STRUCTURE TABLE							
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION			
MH1A	121.73	NW119.240	NE119.184	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010			
MH2A	121.86	SW119.038	NE118.962	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010			
ROOF DRAIN (B2A)							

NUMBER OF ROOF DRAINS		1		
NOWINEL OF ROOF BIOWING	2-YEAR	5-YEAR	100-YR	2
ROOFTOP STORAGE (m³)	4.58	6.17	11.59	
DEPTH OF FLOW (m)	0.030	0.040	0.075	1
FLOW PER ROOF DRAIN (L/s)	0.38	0.50	0.95	
TOTAL FLOW	0.38	0.50	0.95	No.
F	ROOF DRAIN ((B2B)		Che befo
TYPE OF CONTROL DEVICE	WATTS DRAINAG	GE RD-100-A-ADJ (FU	JLLY EXPOSED)	

1001 510 (114 (525)							
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)						
NUMBER OF ROOF DRAINS	NUMBER OF ROOF DRAINS 1						
	2-YEAR	5-YEAR	100-YR				
ROOFTOP STORAGE (m³)	3.21	4.26	8.28				
DEPTH OF FLOW (m)	0.025	0.035	0.060				
FLOW PER ROOF DRAIN (L/s)	0.32	0.44	0.76				
TOTAL FLOW	0.32	0.44	0.76				
TOTAL FLOW	0.32	0.44	0.76				

ROOF DRAIN (B3)					
	TYPE OF CONTROL DEVICE	WATTS DRAINA	GE RD-100-A-ADJ (Fl	JLLY EXPOSED)	
	NUMBER OF ROOF DRAINS		1		
		2-YEAR	5-YEAR	100-YR	
	ROOFTOP STORAGE (m³)	0	0	0	
	DEPTH OF FLOW (m)	0	0	0	
	FLOW PER ROOF DRAIN (L/s)	NA	NA	NA	
	TOTAL FLOW	NA	NA	NA	

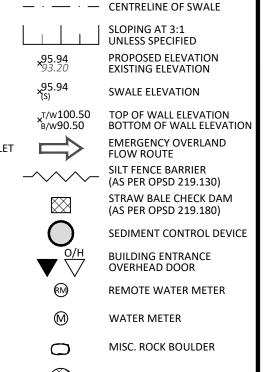




	— DC	BARRIER CURB CURB DEPRESION
		HEAVY DUTY ASPHALT
N	A A A.	CONCRETE SIDEWALK
		PAVING STONE
		STORM MANHOLE
	CB <u>DI</u>	CATCHBASIN OR DITCH IN
	ECB ₍₍₎ TCB	LANDSCAPE CATCHBASIN
	MH	SANITARY MANHOLE
		PERFORATED PIPE
	8	WATER VAVLE/CHAMBER
	_	FIRE HYDRANT

EGEND

LANDSCAPE AREA SUMP PUMP PER DETAIL



---- PROPERTY LINE

SEDIMENT CONTROL DEVICE

NOT FOR CONSTRUCTION

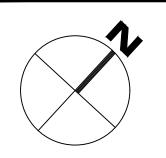
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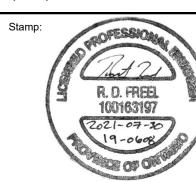
MH2A	121.86	.21.86 SW119.0	W119.038 NE1:	NE118.962	FRAME CITY	Y STD S25			
					STRUC. OPS	SD 701.010			
		R	OOF	DRAIN (I	B2A)				
TYPE OF CONTROL DEVICE		L DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)			JLLY EXPOSED)	3	REVISED PER CITY COMMENTS	JULY 30, 2021
NUMBER OF ROOF DRAINS		DRAINS	1						
			2-YI	/EAR	5-YEAR	100-YR	2	REVISED PER CITY COMMENTS	APR. 22, 2021
ROOF	FTOP STOR.	AGE (m³)	4	.58	6.17	11.59			
D	EPTH OF F	LOW (m)	0.0	030	0.040	0.075	1	ISSUED FOR REVIEW	NOV. 13, 2020
FLOW PE	R ROOF DR	AIN (L/s)	0	.38	0.50	0.95			·
	TOT	AL FLOW	0	.38	0.50	0.95	No Revisions		Date

Check and verify before proceeding	all dimer g with the	nsions e work		Do not s	cale drawings
SCALE	1:250)			
0	5	10	15	20	25 Metres

McINTOSH PERRY

115 Walgreen Road, RR3, Carp, ON KOA 1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com





INVERNESS HOMES 38 AURIGA DRIVE, SUITE 200 OTTAWA, ON K2E8A5

MIXED USE DEVELOPMENT 1518-1526 STITTSVILLE MAIN STREET

SITE SERVICING, SEDIMENT & EROSION **CONTROL PLAN**

Scale:	1:250	Project Number:
Drawn By:	N.B.V.	CP-19-0608
Checked By:	T.D.F.	Drawing Number:
Designed By:	N.B.V.	C102