

SENERAL NOTES

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 V22200 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. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM

THE CITY BEFORE COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL

THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF LL 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 TO NOTIFY THE ENGINEER PROMPTLY.

RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION **EQUAL OR BETTER THAN ORIGINAL CONDITION** AND TO THE SATISFACTION OF THE CITY

EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.

TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. CONTRACTOR TO MINIMIZE THE ACTUAL LIMITS OF REMOVALS AND REINSTATEMENT WHEREVER 18. ALL PROPOSED CURB TO BE CONCRETE BARRIER 5.1.1.

POSSIBLE, AND SHALL MAKE THEIR OWN JUDGEMENT AND ACCOUNT FOR ALL MATERIA 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.

12. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY. 13. 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 BUILDING. 14. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES

SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR 5. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO

NOTED SHALL BE RECTIFIED TO THE CITY'S

16. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY: • ELECTRICAL SERVICE - HYDRO ONE. GAS SERVICE - ENBRIDGE • TELEPHONE SERVICE - BELL CANADA, TELEVISION SERVICE - ROGERS.

NOTIFY THE ENGINEER PROMPTLY.

16. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND

17. CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING

CURB UNLESS OTHERWISE SPECIFIED.

ROAD CATCHBASINS, REARYARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE. THE CONTRACTOR ACKNOWLEDGES

HAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY

2 AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.

FOR SILT FENCE BARRIER, USE OPSD 219,110. GEOTEXTILE FOR SILT FENCE AS PER OPSS 1860, TABLE 3.

EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS EMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES

BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED. (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED

SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED

THE CONTROL MEASURE.

SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE

A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF

MEASURES SHALL BE MONITORED TO ENSURE THEY ARE IN EFFECTIVE WORKING ORDER. THE CONDITION OF THE

FORECAST STORM EVENT AND FOLLOWING A STORM DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEARING AND GRADING. THE USE OF WATER. CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST

SUPPRESSANTS AS PER OPSS 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.

8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL

CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. 10. STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MANHOLES), AND BE SURROUNDED BY EROSION CONTROL MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS OF 14 DAYS.

1. IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES. WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED, AND TEMPORARY WATERCOURSES CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY. THE CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM

12. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577 3. WHERE DEWATERING IS REQUIRED, THE DISCHARGED

WATER SHALL BE CONTROLLED IN ACCORDANCE WITH

4. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED

EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS

WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED

CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS

SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD

2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.

BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.

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 SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES. WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF

WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A

PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE

TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THA HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION

AS PER CITY DETAIL \$35, OPTION A. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.

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. 9. 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

TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

8. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS

10. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE

## WATERMAIN NOTES

SITE SERVICING PLAN

1:250

 CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY

ENSURE 900mm SEPARATION BETWEEN WATERMAIN

AND STORM/SANITARY STRUCTURE. INSULATE PER

STM & SAN SEWERS TO BE CONSTRUCTED OF—

WATERMAIN QUALITY PIPE, PRESSURE TESTED IN

LEAKAGE USING THE TESTING METHODOLOGY IN

EXISTING CATCHBASIN AND

TO BE PLUGGED/SEALED

PVC PRESSURE PIPE SAN @ 1.00%

(100mm INSULATION PER S35)

(100mm INSULATION PER S35)

BACKWATER VALVE PER S14.1

5.72m - 50mmØ WTR SERVICE

C/W CURBSTOP & STANDPOST

BACKWATER VALVE PER S14

INV±93.76

PVC SDR-28 SAN @ 1.00%

15.08m - 200mm@

STM @ 1.00%

150mm SANITARY SERVICE C/W-BACKWATER VALVE PER S14.1.

52.95m - 150mm WATER SERVICE

200mm STORM SERVICE C/W BACKWATER-

DOWNSTREAM OF BACKWATER VALVI

54 UNITS

 $AREA = 775 m^2$ 

FFL = 95.95m

VALVE PER S14.CONNECT ROOF DRAIN

INV± 94.45

TOP± 93.52

INV± 93.78

100mm INSULATION PER S35)

6.97m - 150mmØ STM SERVICE C/W -

TEMPEST LMF80 ICD-

600mm SUMP REQUIRED

TO ACCOMODATE ICD.

AT OUTLET.

PVC PRESSURE PIPE SAN @ 1.00%

2.78m - 135mmØ SAN SERVICE C/W -

AT MAINTENACE HOLE.

LEAD TO BE REMOVED. INLET

PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT

ONTARIO PROVINCIAL STANDARD SPECIFICATION 701

PROPOSED TOWNHOUSE

4 UNITS

 $AREA = 324m^2$ 

FFL = 96.00 m

(OPSS 701) OF THE OPS. REFER TO SEWER NOTE 5.

DETAIL W23.

WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE LESS THAN 2.4m COVER WITH THERMAL INSULATION AS PER CITY DETAIL W22.

R 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 DETAIL W23.

5. VALVES TO BE OPERATED BY CITY STAFF ONLY. 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 CONSTRUCTION.

CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020. 9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.

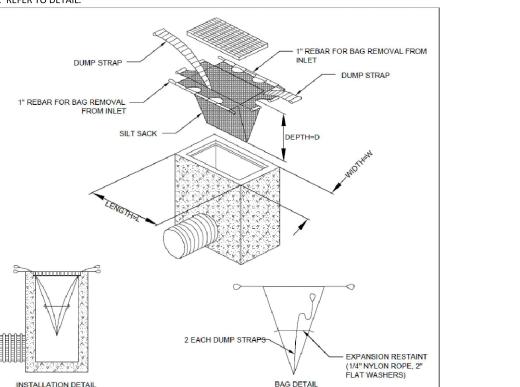
10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER

11. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/LITHITY IS 0.25m FOR CROSSING OVER THE SEWER. AS PER CITY DETAIL W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT **EXCESSIVE DEFLECTION OF JOINTS AND SETTLING** HE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE

### **ROADWAY NOTES**

- 1. RESTORE ANY TRENCHES AND DISTURBED SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION
- CONCRETE CURB AND SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SC1.1 (BARRIER CURB), SC2 (MONOLITHIC SIDEWALK & CURB), AND SC4 (STANDARD SIDEWALK) AS NOTED. PROVISIONS SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS, DRIVEWAYS AND RAMPS. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA DETAIL R10 AND OPSD 509.010, OPSS
- 310, AND SHALL BE REINSTATED PER THE DETAIL SHOWN ON THIS DRAWING. 4. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
- 5. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 100% SPMDD.
- 6. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER
- 7. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.

8. PAVEMENT STRUCTURE: REFER TO DETAIL.



INLET SEDIMENT CONTROL DEVICE

-PROPOSED 2 x 150mm WATER SERVICE MH-SA. 1

ENSURE MINIMUM 1.0m BETWEEN ALL INV ±93.47(NE)

PRESSURE PIPE STM @ 1.00%) 🖯

RISER PER S11.1

SPRING±93.63

INV+93.48

AT OUTLET.

# 600mm SUMP REQUIRED

TO ACCOMODATE ICD.

RISER PER S11.1

-22.89m - 300mmØ

PVC SDR-35 STM @ 1.00%

150mm PVC DR-18 WTM

SPRING±93.68

CONNECT TO PROPOSED 300mm

CONNECT TO PROPOSED 300mm STM AT SPRINGLINE WITH VERTICAL

STM AT SPRINGLINE WITH VERTICAL

TOP +95.54

INV 93.59(SE)

**CAPILANO DRIVE** 

CONNECT TO EX. 152mm WATERMAIN

VALVES AND FITTINGS (TYP.).

STRUCTURE TO BE PRECAST OR

PER CITY W19

1.57m - 200mmØ

STM @ 2.00%

**∕**−9.86m - 200mmØ PVC SDR-35 STM @ 1.00%

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CAST-IN-PLACE "DOGHOUSE"

TYPE PER OPSD701.010

ROOF DI	RAINS (B1)		
TYPE OF CONTROL DEVICE	WATTS D RD-100-A-A	RAINAGE .DJ ( <del>3</del> OPEN)	
NUMBER OF ROOF DRAINS	2	2	
MAXIMUM DEPTH (m)	0.1	.50	
MAXIMUM STORAGE (m³)	32.	.95	
	5-YEAR	100-YEAR	
STORAGE REQUIRED (m³)	16.45	32.01	
STORAGE AVAILABLE (m³)	17.57	32.95	
DEPTH OF FLOW (m)	0.80	0.150	
FLOW PER ROOF DRAIN (L/s)	0.91	1.58	
TOTAL FLOW	1.83	3.15	

# SITE LOCATION PLAN

SANITARY STRUCTURE TABLE					
RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION		
95.56	SE94.170 SW94.210	NW94.148	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010		
95.69	SE94.070	NW94.052	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010		
95.62	SE93.890 EX.SW93.546	EX.NE93.540	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010		

HEAVY DUTY PAVEMENT LIGHT DUTY PAVEMENT

TRENCH REINSTATEMENT TO INCLUDE STEP KEY AS PER CITY DETAIL R10

ASPHALT CROSS-SECTIONS TO CONFORM TO GEOTECHNICAL REPORT

COMPLETED BY PATERSON GROUP, DATED MARCH 3, 2023

CROSS-SECTION

GRAN "B"

TOP  $\pm 95.53$ 

INV <u>+</u>93.18(N

INV 93.24(SE

INV <u>+</u>93.18(SW

50mm HL3 OR SP1

GRAN "A"

: GRAN "B'

CROSS-SECTION

		STORM ST	RUCTURE	TABLE
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	95.45		NE93.861	STRUC: OPSD 705.010 FRAME: CITY S19 COVER: CITY S19 C/W TEMPEST LMF80 IC
CB3	95.45		Circular PVC DR35 PipeSW94.140	STRUC: OPSD 705.010 FRAME: CITY S19 COVER: CITY S19 C/W TEMPEST LMF75 IC
MH2	95.72	SW93.710 SE93.670	NW93.649	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010
MH4	95.61	SE93.420	NW93.396	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010
MH5	95.59	SE93.270 EX.SW93.230	EX.NE93.220	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010

	CROSSING CONFLICT TABLE	
LOCATION	DESCRIPTION	SEPARATIO
1*	200mmØ EXISTING SANITARY SEWER INV 93.53 150mmØ WATER SERVICE OBV 93.03	0.50
2*	200mmØ EXISTING SANITARY SEWER INV 93.52 150mmØ WATER SERVICE OBV 93.02	0.50
3	375mmØ EXISTING STM SEWER OBV 93.63 150mmØ SANITARY SERVICE INV 94.96	0.33
4*	375mmØ EXISTING STM SEWER INV 93.24 150mmØ WATER SERVICE OBV 92.74	0.50
5*	375mmØ ÉXISTING STM SEWER INV 93.23 150mmØ WATER SERVICE OBV 92.73	0.50
6	150mmØ SANITARY SERVICE INV 94.18 50mmØ WATER SERVICE OBV 93.15	1.03
7	150mmØ SANITARY SERVICE INV 94.23 150mmØ STORM SERVICE OBV 93.98	0.25
8	150mmØ WATER SERVICE OBV 93.17 150mmØ STORM SERVICE INV 93.70	0.53
9	150mmØ SANITARY SERVICE INV 94.35 200mmØ STORM SERVICE OBV 93.95 150mmØ WATER SERVICE OBV 93.23	0.40
10		0.50
11*	200mmØ STORM SERVICE INV 93.73 150mmØ HYDRANT LEAD OBV 92.83 300mmØ STORM SERVICE INV 93.33	0.50

WATER COVER TABLE					
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER	
A - 150 X 150 TEE	0+100.00	95.60	93.20	2.40	
CROSSING 1	0+101.06	95.62	93.03	2.59	
CROSSING 4	0+107.51	95.64	92.74	2.90	
VALVE	0+116.51	95.69	93.29	2.40	
150 X 150 TEE	0+117.52	95.67	93.27	2.40	
22.5° BEND	0+121.16	95.62	93.22	2.40	
22.5° BEND	0+123.12	95.57	93.17	2.40	
150 X 50 TEE	0+126.43	95.51	93.11	2.40	
CROSSING 8	0+130.79	95.57	93.17	2.40	
CROSSING 10	0+143.12	95.67	93.23	2.44	
BUILDING	0+153.97	95.92	93.52	2.40	
B - 150 X 150 TEE	0+200.00	95.60	93.20	2.40	
CROSSING 2	0+201.06	95.61	93.02	2.59	
22.5° BEND	0+202.14	95.64	93.24	2.40	
22.5° BEND	0+204.75	95.68	93.28	2.40	
CROSSING 5	0+207.69	95.63	92.73	2.90	
150 X 150 TEE	0+213.81	95.63	93.23	2.40	
VALVE	0+216.69	95.69	93.29	2.40	
45° BEND	0+217.89	95.67	93.27	2.40	
45° BEND	0+218 35	95 67	93 27	2 40	

B - 150 X 150 TEE	0+200.00	95.60	93.20	2.40
CROSSING 2	0+201.06	95.61	93.02	2.59
22.5° BEND	0+202.14	95.64	93.24	2.40
22.5° BEND	0+204.75	95.68	93.28	2.40
CROSSING 5	0+207.69	95.63	92.73	2.90
150 X 150 TEE	0+213.81	95.63	93.23	2.40
VALVE	0+216.69	95.69	93.29	2.40
45° BEND	0+217.89	95.67	93.27	2.40
45° BEND	0+218.35	95.67	93.27	2.40
150 X 150 TEE	0+219.17	95.67	93.27	2.40
C - 150 X 150 TEE	0+300.00	95.63	93.23	2.40
CROSSING 11	0+302.38	95.63	92.83	2.80
VALVE	0+303.31	95.75	93.15	2.60

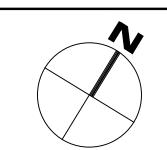
PROPOSED HYDRANT 0+304.49 95.85 93.45 2.40 WATERMAIN OR SERVICE WITH LESS THAN 2.4m COVER TO BE INSULATED PER CITY STD W22 WATERMAIN WITHIN 2.4m OF OPEN STRUCTURES TO BE INSULATED PER CITY STD W23

ROOF D	RAINS (B1)	
TYPE OF CONTROL DEVICE		RAINAGE DJ ( <sup>3</sup> OPEN)
NUMBER OF ROOF DRAINS	2	2
MAXIMUM DEPTH (m)	0.1	.50
MAXIMUM STORAGE (m³)	32.	.95
	5-YEAR	100-YEAR
STORAGE REQUIRED (m³)	16.45	32.01
STORAGE AVAILABLE (m³)	17.57	32.95
DEPTH OF FLOW (m)	0.80	0.150
FLOW PER ROOF DRAIN (L/s)	0.91	1.58
TOTAL FLOW	1.83	3.15
DRAWDOWN TIME	150min	169min

LUCA I	ION PLAN		V
LEGEN	D		
	CONCRETE BARRIER CURB		LIMIT OF CONSTRUCTION
4.4.4	CONCRETE WALKWAY		– DRAINAGE SWALE
	PROPOSED HEAVY DUTY ASPHALT		DRAINAGE DITCH
	PROPOSED LIGHT DUTY ASPHALT		SLOPING AT 3:1 UNLESS SPECIFIED
LSCI	B# LANDSCAPING CATCHBASIN	95 <sub>×</sub> 50	SURFACE ELEVATION
CBN T/G	MH# CATCHBASIN MANHOLE	×95.50	SWALE ELEVATION
■CB# T/G	CATCHBASIN	×T/W95.50 B/W94.25	TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
MH: T/G	#A SANITARY SEWER MANHOLE		OVERLAND FLOW ROUTE
→ HYD B/F	FIRE HYDRANT	~~~~	SILT FENCE BARRIER
0	WATER VALVE		STRAW BALE CHECK DAM
M	WATER METER		MUD MAT
<b>®</b> M	REMOTE WATER METER	RS	ROOF SCUPPER
		 ○RD	ROOF DRAIN
_			
3 IS:	SUED FOR SITE PLAN CONTR	ROL	JUNE 30, 202
2 IS:	SUED FOR 33% COORDINAT	TION	JUNE 23, 202

# McINTOSH PERRY

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

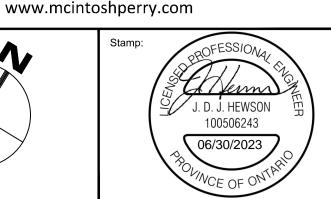


ISSUED FOR SITE PLAN CONTROL

Check and verify all dimensions

SCALE 1:250

before proceeding with the work



MAR. 03, 202

Date

Do not scale drawing

**CSV ARCHITECTS** 190 O'CONNOR STREET, SUITE 100 OTTAWA, ON K2P 2R3

RESIDENTIAL DEVELOPMENT 56 CAPILANO DRIVE, OTTAWA, ON

LOT GRADING, DRAINAGE, SERVICING, **EROSION & SEDIMENT CONTROL PLAN** 

				>
Scale:	1:250	Project Number:		
Drawn By:	NV		CCO-23-3325	ر ر
Checked By:	CJM	Drawing Number:		7
Designed By:	NV		C101	