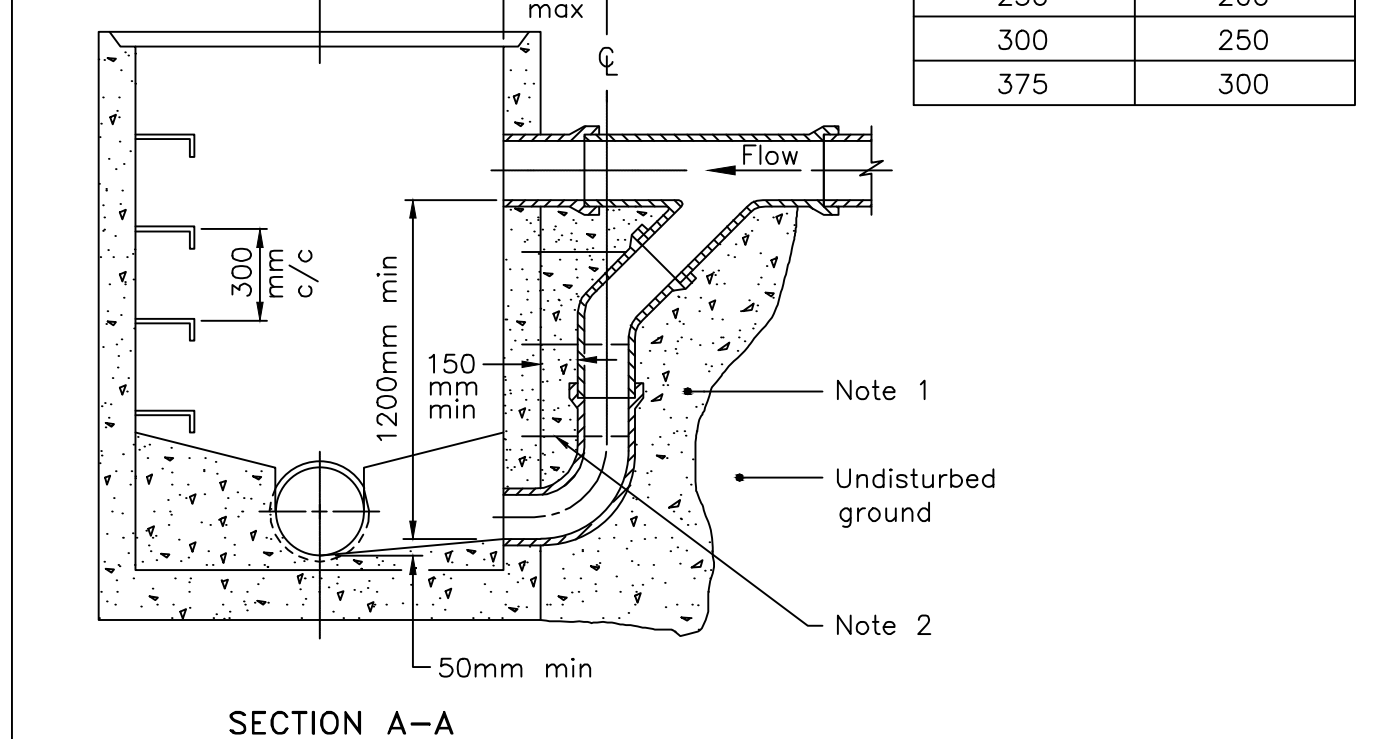
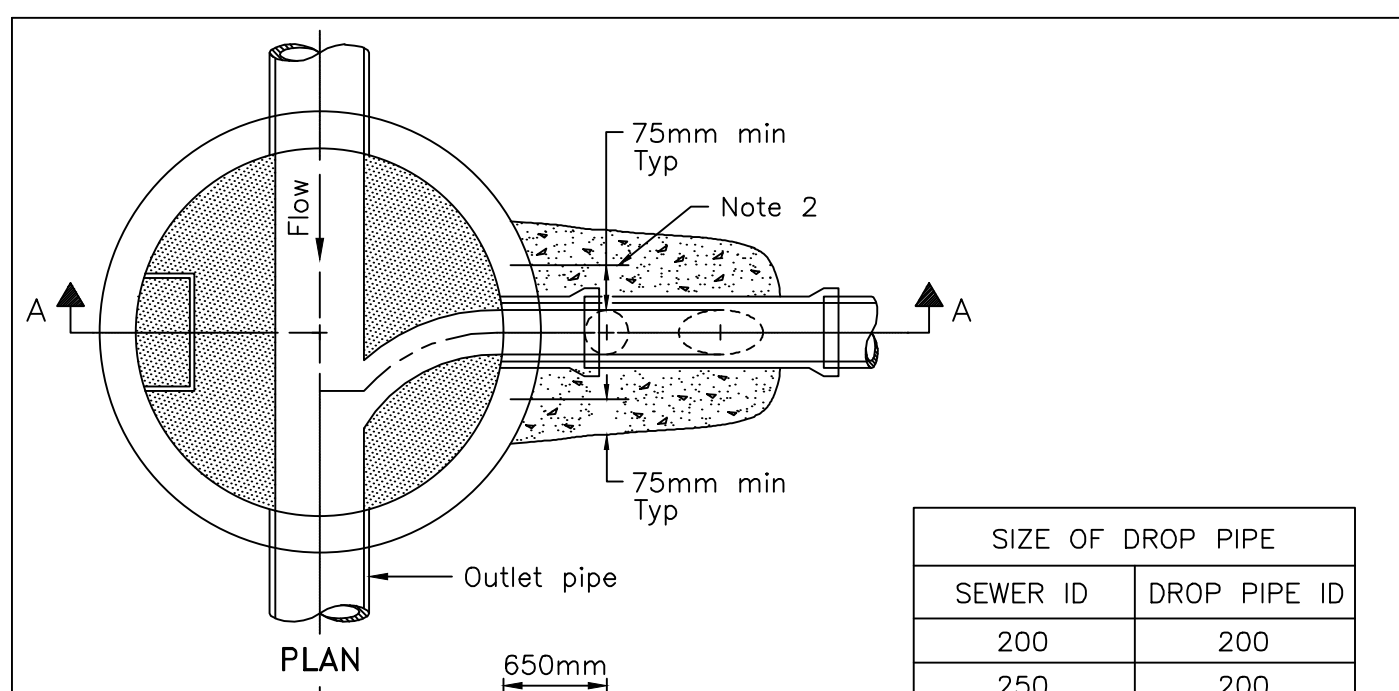


NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
 2. FOR DITCHED PIPE APPLICATIONS, TOP OF CS SHALL BE MIN. 5cm ABOVE BOTTOM OF THE DITCH/SWALE AND BE LOCATED MIN. 2m FROM EDGE OF PAVEMENT.
 3. WHEN NON PERFORATED PIPE IS USED, MATCH THE 1/3 HORIZONTAL OPENING DIAMETERS TO THE PIPE DIAMETER AND CONNECT WITH MANUFACTURER RECOMMENDED CONNECTION SLEEVE.
 4. SEE MS-22.16 FOR ALTERNATE APPROVED FITTING MANUFACTURERS.

CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS
 DATE: MARCH 2007
 REV. DATE: MARCH 2019
 DWG. No.: S31



NOTES:
 1. Concrete shall be placed to undisturbed ground and the outside face of the maintenance hole, but there shall be a minimum of 150mm of 15MPa concrete around the drop pipe.
 2. Concrete shall be secured to the maintenance hole with 450mm long, 13mm diameter threaded rods and drilled expansion anchors down either side of the drop pipe at 300mm centres.
 A. All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
 Nov 2016 Rev 3
CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE WYE
 OPSD 1003.020

LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
A-400 X 150 TEE	0+100.00	63.72	61.32	2.40
11.25' BEND	0+104.19	63.77	61.37	2.40
DMA CHAMBER PER CITY W/ 67W-150mm GATE VALVE STRUCTURE PER S31	0+109.35	63.75	61.35	2.40
45' BEND	0+133.67	63.57	61.17	2.40
45' BEND	0+134.32	63.56	61.16	2.40
WATER ENTRY	0+136.10	63.60	61.20	2.40
B-400 X 150 TEE	0+200.00	63.80	61.40	2.40
VALVE	0+201.00	63.79	61.39	2.40
HYDRANT	0+205.00	63.70	61.30	2.40

LOCATION	DESCRIPTION	SEPARATION
1	PROP. 250mm STM SERVICE INV 58.21 EX. 300mm STM SERVICE INV 57.90 PROP. 250mm STM SERVICE INV 58.20 EX. 135mm SAN SERVICE INV 57.82 PROP. 250mm STM SERVICE INV 57.75 EX. 250mm SAN MAIN INV 55.77 PROP. 250mm SUBDRAIN INV 58.43 EX. 250mm SAN MAIN INV 55.32	0.31
2		0.38
3		1.98
4		3.11

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1A	60.44	55.7636	NE57.610	COVER TYPE A FRAME OPSD 401.010 STRUCT. OPSD 701.010

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	60.37	E58.294	S58.250	STRUC. OPSD 705.010 FRAME: CITY S19 COVER: CITY S19
LSCB2	59.44		W58.440	PER CITY STANDARD S31
OGS3	60.40	S157.963 W58.514	E57.930	HYDRO-INTERNATIONAL FD-4HC (OR APPROVED EQUIVALENT)

1 SITE SERVICING PLAN
 1:250

GENERAL NOTES

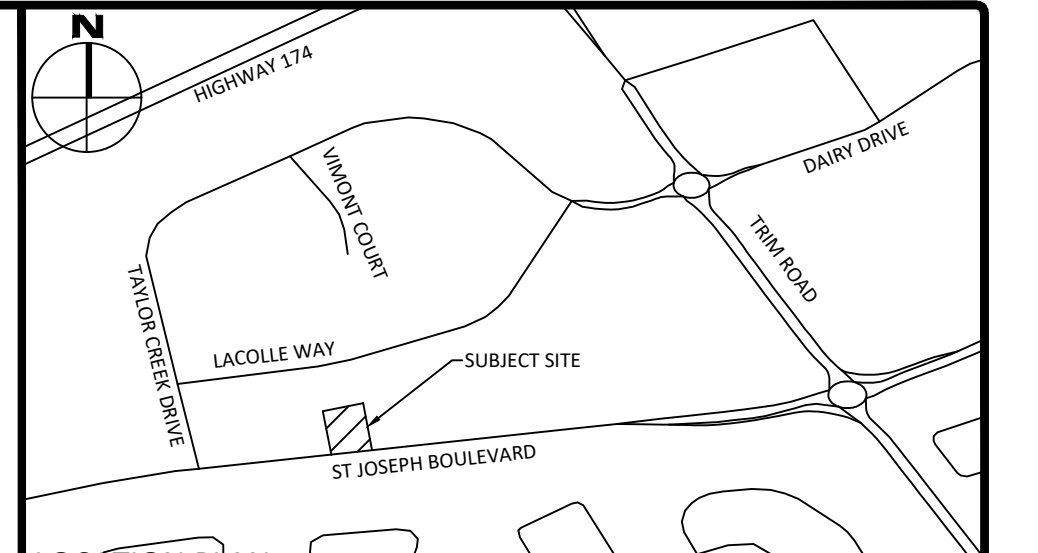
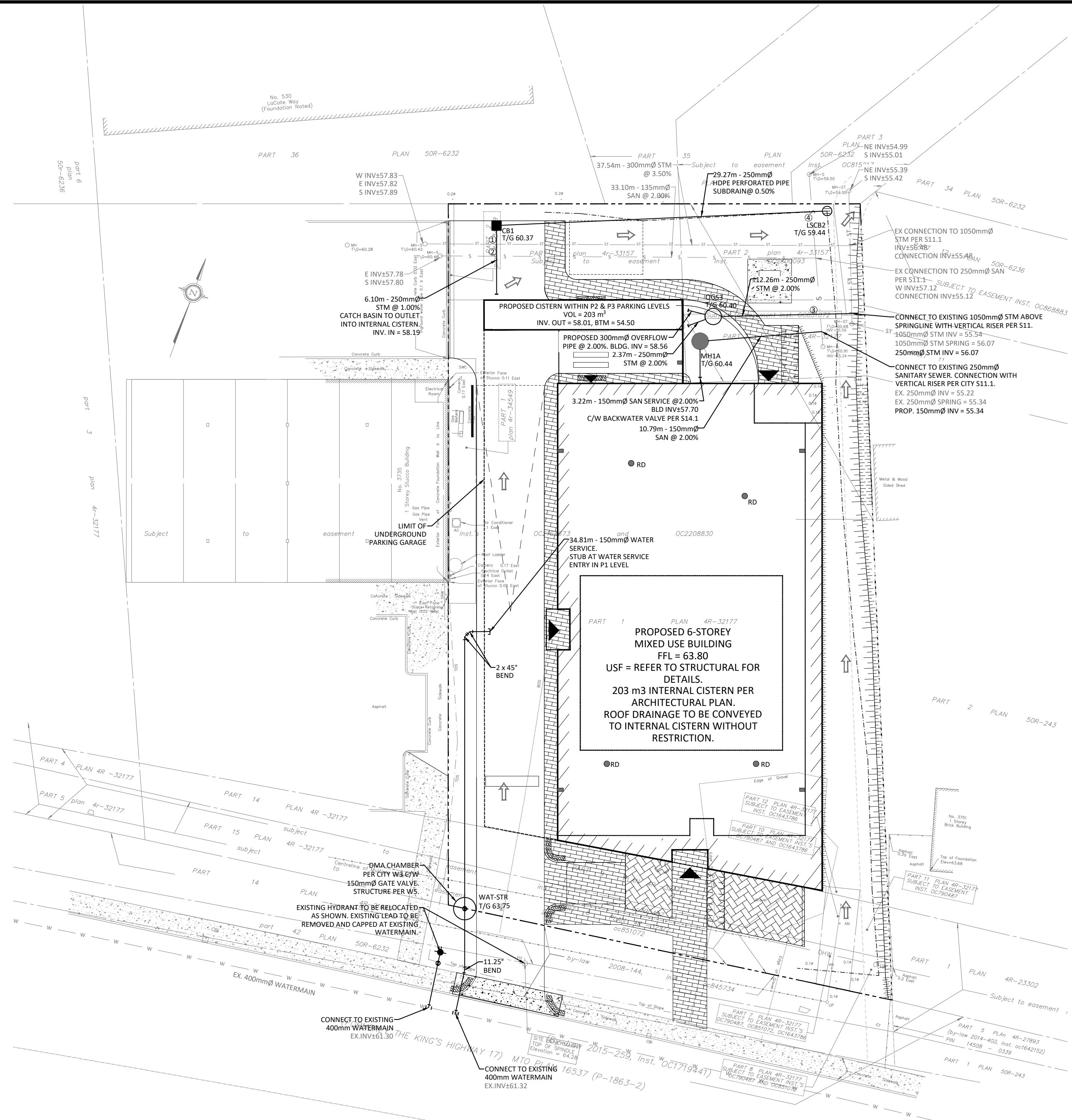
- THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED FROM INFORMATION SUPPLIED BY (OR SHOWN ON) ANNS/O'SULLIVAN, VOLLEBEKK LTD. DRAWING E-2505-22 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 LAYOUT.
- 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 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 AUTHORITIES.
- 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 ALL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL

WATERMAIN NOTES

- CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- WATERMANS 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.
- 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.
- THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- 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.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTIONS 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.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.

SEWER NOTES:

- CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- 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% STANDARD PROCTOR DRY DENSITY.
 2.2. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
 2.3. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SURFACE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
- SANITARY SEWERS AND CONNECTIONS 150mm AND SMALLER TO BE PVC SDR-28.
- SEWERS AND CONNECTIONS 200mm AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
- INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
- SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11.1, S11.1 & S11.2.
- SURPLY 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.
- CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS ON SITE. OUTLET CONNECTION TO THE MAIN AND PIPES 150mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

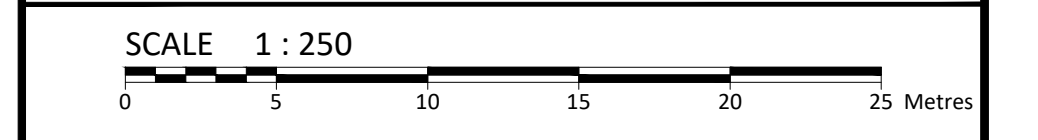


LEGEND

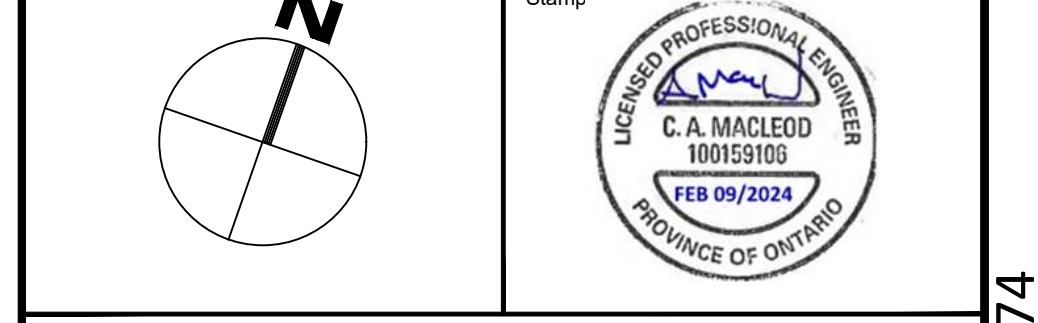
	CONCRETE BARRIER CURB		LIMIT OF CONSTRUCTION
	CONCRETE WALKWAY		DRAINAGE SWALE
	PROPOSED ASPHALT		DRAINAGE DITCH
	LANDSCAPING CATCHBASIN		SLOPING AT 3:1 UNLESS SPECIFIED
	CATCHBASIN MANHOLE		SURFACE ELEVATION
	CATCHBASIN		SWALE ELEVATION
	SANITARY SEWER MANHOLE		TOP OF WALL ELEVATION
	FIRE HYDRANT		BOTTOM OF WALL ELEVATION
	WATER VALVE		OVERLAND FLOW ROUTE
	WATER METER		SILT FENCE BARRIER
	REMOTE WATER METER		STRAW BALE CHECK DAM
			MUD MAT

No.	Revisions	Date
3	RE-ISSUED FOR SITE PLAN CONTROL APPROVAL	FEB. 09, 2024
2	RE-ISSUED FOR SITE PLAN CONTROL APPROVAL	OCT. 06, 2023
1	ISSUED FOR REVIEW	MAY 12, 2023

Check and verify all dimensions before proceeding with the work. Do not scale drawings.



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

Project: **MIXED USE BUILDING**
 3745 ST. JOSEPH BOULEVARD

Drawing Title: **SITE SERVICING PLAN**

Scale: 1:250 Project Number: CCO-23-3287

Drawn By: NV Drawing Number: C102

Checked By: AM

Designed By: NV