PROP 300mmØ PVC WTM-

3+000 3+002 3+003 3+006 3+008 3+009 3+011

INSULATE PER W22—

APPROXIMATE LOCATION OF—

PROP 250mm INV=67.91

21.77m - 450mmØ CONC

PROP 250mmØ PVC WTM-

DROP STRUCTURE PER— OPSD 1003.010

65

€ ELEVATIONS PROPOSED

SANITARY SEWER

TOP OF WATERMAIN

STATION

CROSSING PER W25.2

SAN @ 2.70%

EXISTING 406mmØ DI WTM

-APPROXIMATE LOCATION OF EXISTING TRAFFIC CONDUIT.

-TVS CHAMBER PER CITY W11.1 TO CONNECT

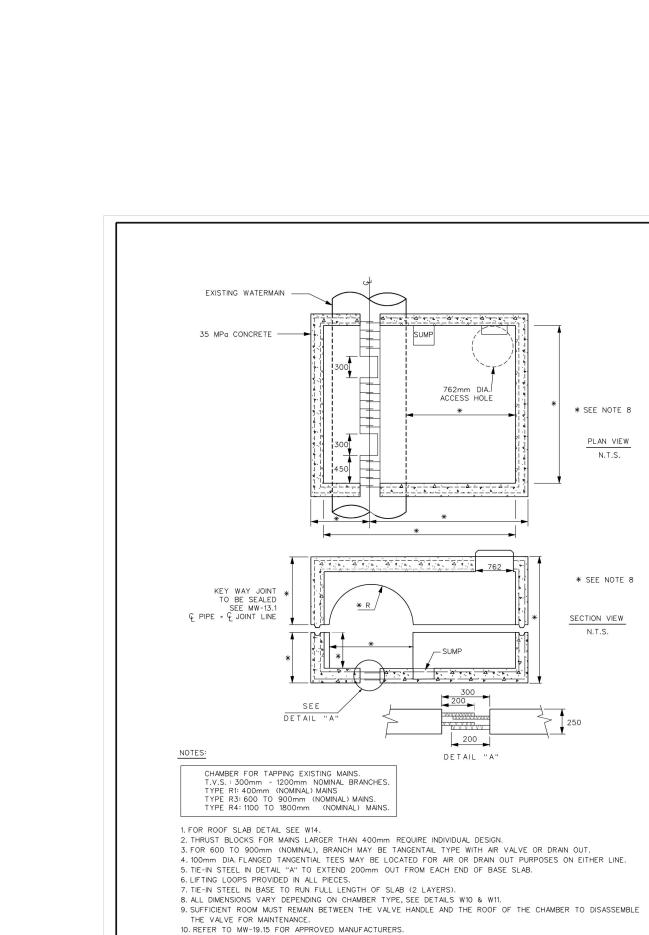
TO EXISTING 610mmØ C01 WTM

CONNECTION BY CITY FORCES

EX. 610mmØ TOP±67.38 PROP 300mmØ TOP = 67.18

ENSURE MIN REPARATION DISTANCE PER UTILITY OWNER'S

REQUIREMENTS



11. REFER TO MW-13.1 FOR ADDITIONAL REQUIREMENTS.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

T.V.S. CHAMBER

762mm DIA./ ACCESS HOLE

\* SEE NOTE 8

PLAN VIEW N.T.S.

\* SEE NOTE 8

SECTION VIEW

DATE: MAY 2001

TV. NONE

DWG. No.: W11.1



**JOHN SEVIGNY C.E.T.** MANAGER (A), DEVELOPMENT REVIEW EAST PLANNING, DEVELOPMENT & BUILDING SERVICES **DEPARTMENT, CITY OF OTTAWA** 

APPROVED

By sevignyjo at 7:42 pm, Jan 08, 2025

SAN STRUCTURE TABLE								
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION				
MH2A	75.79	SE73.520	N72.940	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25				
MH2B	75.23	\$72.777	N69.578	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUC' PER OPSD 1003.010				
MH2C	71.16	\$68.620	NW67.788	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUC PER OPSD 1003.010				
MH2D	70.11	SE67.200	SW66.440	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUC PER OPSD 1003.010				
MH2E	69.45	NE65.500	NW65.080	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25				

## **MUNICIPAL SEWER/WATERMAIN RELOCATION NOTES:**

- 1. CONSTRUCT ALL SEWERS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AN
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDAI
- PROCTOR DRY DENSITY (SPMDD). CLEAR STONE BEDDING SHALL NOT BE PERMITTED. BEDDING THICK TO BE INCREASED TO 300mmm IF PLACED ON BEDROCK.
  2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1. 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 1.8 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. THE TRENCH BACKFILL
- 3. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION PHASING AND LAYOUT. A PHASING PLAN SHALL BE ESTABLISHED FOR THE REALIGNMENT OF THE PROPOSED WATER AND SANITARY SERVICES TO ENSURE CONTINUAL SERVICE FOR THE OFF-SITE FLOWS.

SHOULD BE PLACED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE

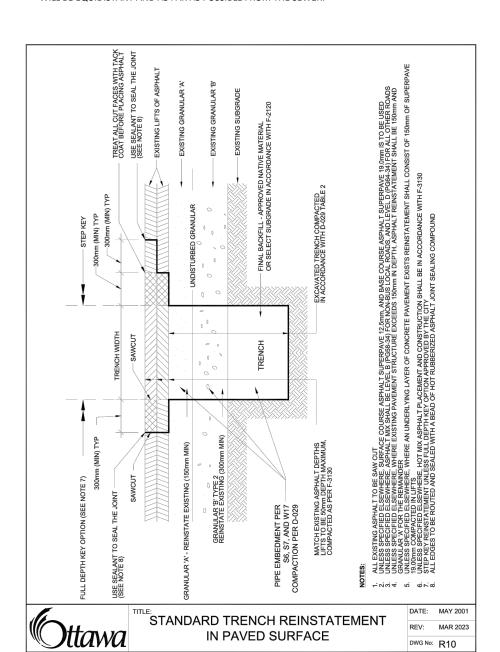
- SEWERS AND CONNECTIONS 200mm@-375mm@ TO BE PVC SDR-35. SEWER CONNECTIONS 450mm@ AND LARGER TO BE CONCRETE. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE. CONCRETE. SEWER CLASS IN ACCORDANCE WITH OPSD 807.010 & 807.030, AS APPLICABLE.
- 5. CONTRACTOR TO CCTV SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS
- PRIOR TO AND AFTER PROPOSED WORKS. 6. PROPOSED SANITARY MAINTENANCE STRUCTURES TO BE BENCHED PER OPSD 701.021.
- 7. 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 PI PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING
- 8. WHERE SANITARY SEWERS ARE 0.6M BELOW GROUNDWATER TABLE. SANITARY MAINTENANCE HOLES SHA EXTERNALLY WRAPPED WITH WATERPROOF MEMBRANE PLACED EXTERNALLY AROUND ALL PRECAST JOIN INCLUDING JOINTS BELOW THE MAINTENANCE HOLE FRAME AND COVER, WITH A MINIMUM 300MM WIDE

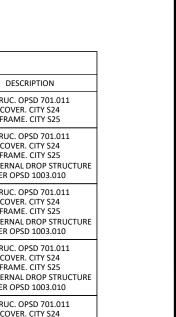
METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS.

- 9. THE LOCATION OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- 10. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES H ONE, BELL, ROGERS AND THE CITY.
- 11. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- 12. 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
- 13. 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.
- 14. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
- 15. VALVES TO BE OPERATED BY CITY STAFF ONLY.

MATERIAL'S SPMDD.

- 16. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAIN FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFII AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- 17. 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 before proceeding with the work THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
- 18. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
- 19. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- 20. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
- 21. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY 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. THE 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 SEWER.





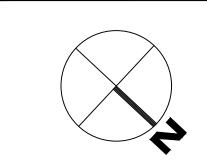
LOCATION PLAN

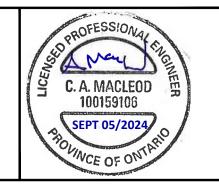
LEGEND

	DC OMH#		BARRIER CURB & CURB DEPRESSION		SLOPING UNLESS	G AT 3:1 SPECIFIED
			PROPOSED CONCRETE PAVERS	×95.94 93.20		ED ELEVATION G ELEVATION
			STORM MANHOLE	×95.94 (s)	SWALE I	ELEVATION
		CB <b>■</b> CICB	CATCHBASIN, CURB INLET OR DITCH INLET	XT/W100.50 B/W90.50	TOP/BO ELEVATI	TTOM WALL FACE ONS
		MH#A	SANITARY MANHOLE	$\Rightarrow$		ED EMERGENCY ND FLOW ROUTE
			PROPERTY LINE	$\Rightarrow \Rightarrow$	PRE AND POST-DE	) EVELOPMENT GE DIRECTIONS
		8	EX. WATER VALVE/CHAMBER	-^ ^ ^ -		OUTY SILT FENCE
ND			·	<b>V V V</b>		D 219.130
		<b>⊕</b> <b>⊥</b>	PROP. VALVE PER CITY W24	V		G ENTRANCE
ARD		-	FIRE HYDRANT	· , , ,	PROPOS	ED GRASS
CKNESS			PROPOSED WALL			
.8		$\langle \rangle \rangle$	PROPOSED SIAMESE CONNECTION			LINE OF SWALE  ED ROADCUT AND
		(M) (RM)	PROPOSED WATER METER AND REMOTE METER		REINSTA R10	TEMENT PER CITY
BE			AND REMOTE WETER			
	[N		PROPOSED CONCRETE SIDEWALK	$\otimes$	CB SILT : DETAIL	SACK PER C101
D CRETE			PROP AND EX. REDUCER	1	SERVICE	/SEWER CROSSING
NS	,			— L —		TREET LIGHT
		- P —— — ST——	U/G HYDRO DUCT PER ELEC. EX. STM SEWER	W		ERMAIN
E		SAN	EX. SAN SEWER BELL AND ROGERS	— GAS — OHW	EX. GAS	1
PIPE,		BELL —— ROG ——	CONDUIT FOR BUILDING PER ELEC.	—— GAS ——	EX. OHV	FFIC CABLE
				—— BELL ——	EX. BELL	
HALL BE NTS,				— ROG —	EX. ROG	ERS
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FILLING	No.		Date			
OR AND	Chec befor	scale drawings				



115 Walgreen Road, R.R.3 Carp, ON KOA 1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.egis-group.com





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