
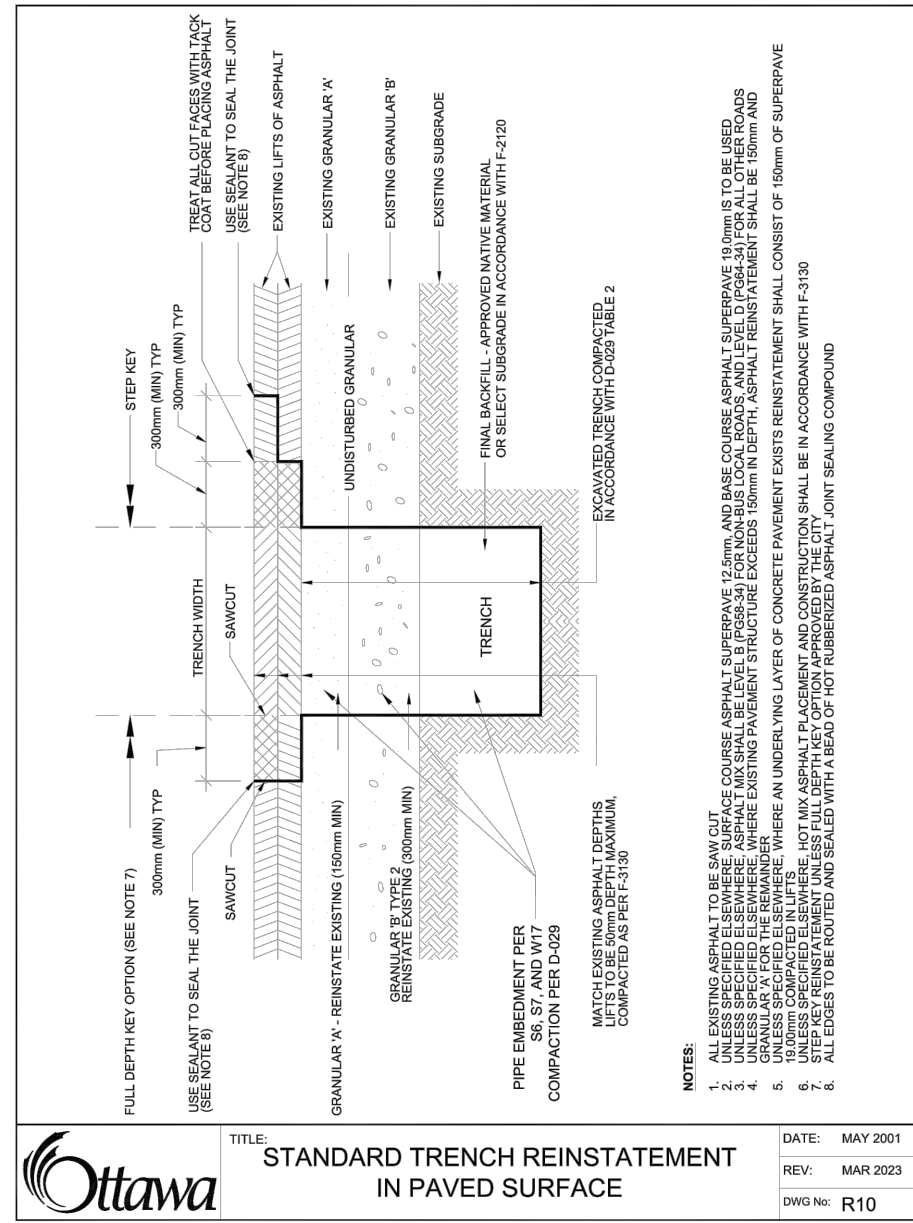
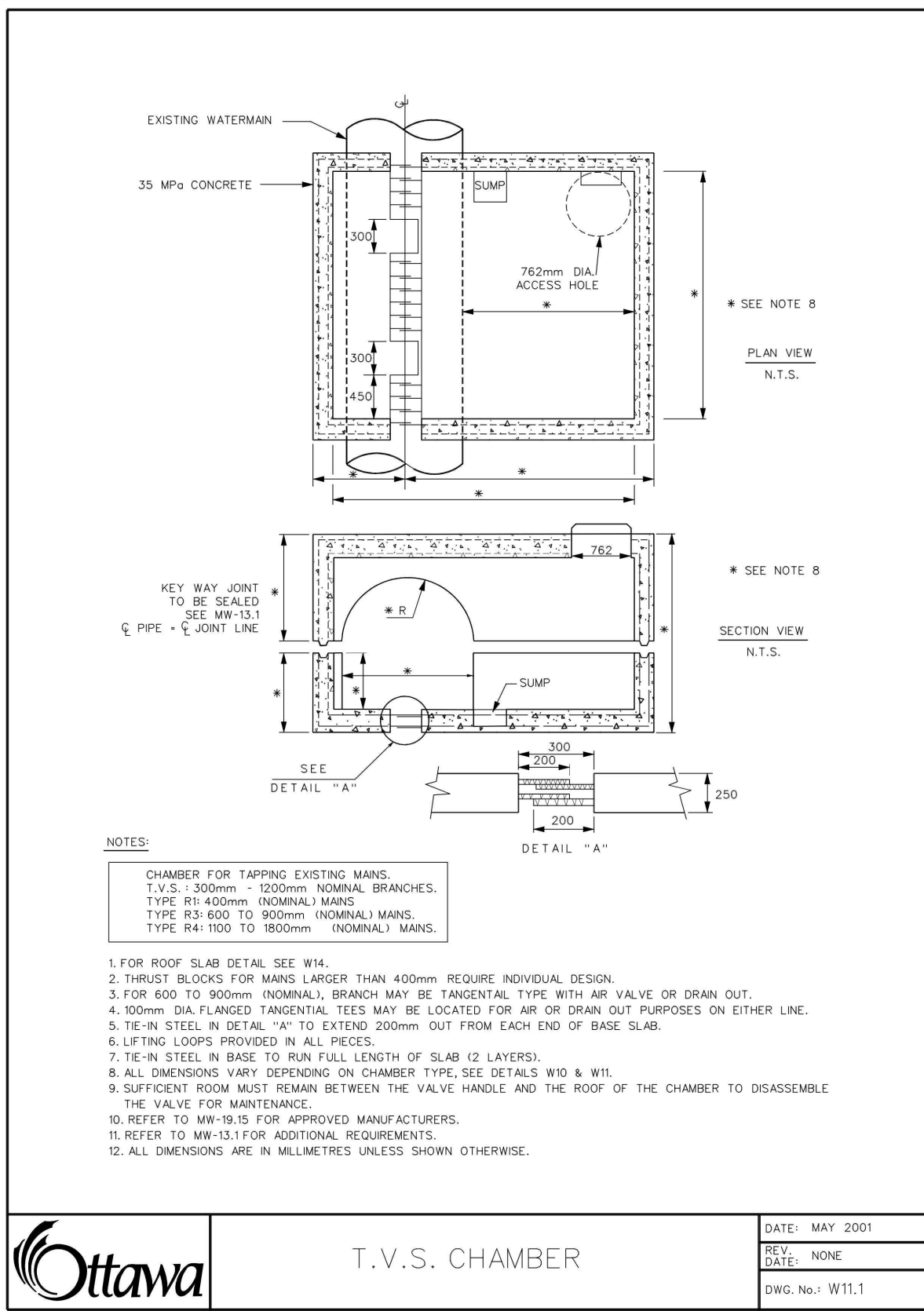


REVIEWED BY  
DEVELOPMENT REVIEW SERVICES BRANCH

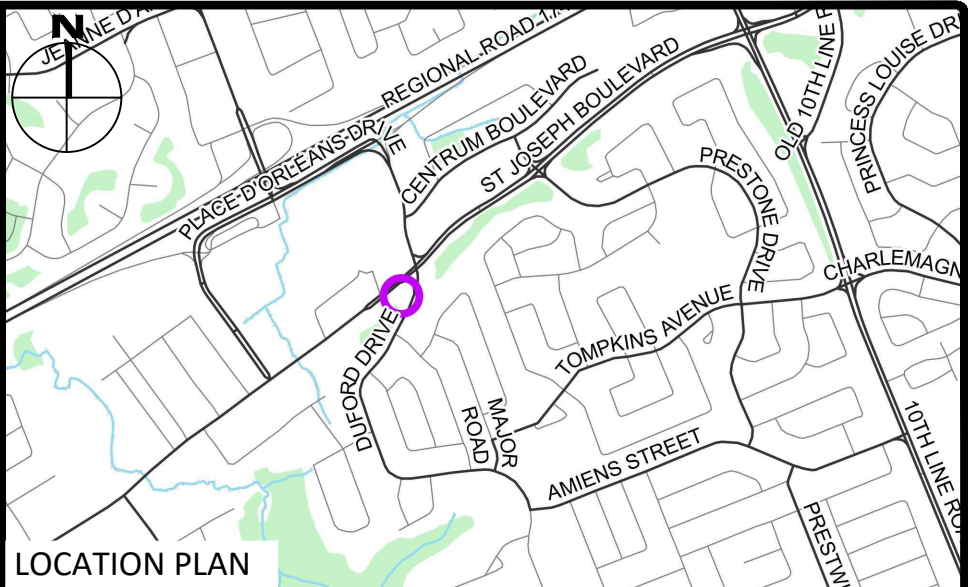
Signed   
Date Mar 11 2025  
Plan Number # 19036

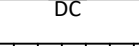





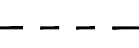





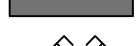


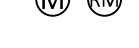









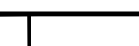


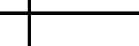
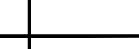



SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH2A	75.79	SE73.520	N72.940	STRUC. OPSD 701.011 COVER: CITY 524 FRAME: CITY 525
MH2B	75.23	572.777	N69.578	STRUC. OPSD 701.011 COVER: CITY 524 FRAME: CITY 525
MH2C	71.16	568.620	NW67.788	STRUC. OPSD 701.011 COVER: CITY 524 FRAME: CITY 525
MH2D	70.31	SE67.200	SW66.440	STRUC. OPSD 701.011 COVER: CITY 524 FRAME: CITY 525
MH2E	69.45	N65.500	NW65.080	STRUC. OPSD 701.011 COVER: CITY 524 FRAME: CITY 525

#### MUNICIPAL SEWER/WATERMAIN RELOCATION NOTES:

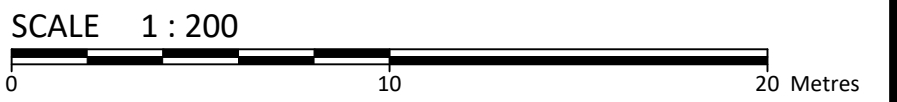
- CONSTRUCT ALL SEWERS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
  - BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY (SPMD). CLEAR STONE BEDDING SHALL NOT BE PERMITTED. BEDDING THICKNESS TO BE INCREASED TO 300mm IF PLACED ON BEDROCK.
  - SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 400mm 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 1.8 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIAL'S SPMD.
- 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.
- SEWERS AND CONNECTIONS 200mmØ-375mmØ TO BE PVC DR-35. SEWER CONNECTIONS 450mmØ 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.
- CONTRACTOR TO CCTV SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS PRIOR TO AND AFTER PROPOSED WORKS.
- PROPOSED SANITARY MAINTENANCE STRUCTURES TO BE BENCHMARKED PER OPSD 701.021.
- 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 MECF 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 701.010 (OPSD 701) OF THE OPS.
- WHERE SANITARY SEWERS ARE 0.6M BELOW GROUNDWATER TABLE, SANITARY MAINTENANCE HOLES SHALL BE EXTERNALLY WRAPPED WITH WATERPROOF MEMBRANE PLACED EXTERNALLY AROUND ALL PRECAST JOINTS, INCLUDING JOINTS BELOW THE MAINTENANCE HOLE FRAME AND COVER, WITH A MINIMUM 300mm WIDE STRIP.
- THE LOCATION OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL, ROGERS AND THE CITY.
- CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- 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.
- 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 WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
- 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 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.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
- 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 W23-5 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.



LEGEND	
	BARRIER CURB & CURB DEPRESSION
	PROPOSED CONCRETE PAVERS
	STORM MANHOLE
	CATCHBASIN, CURB INLET OR DITCH INLET
	SANITARY MANHOLE
	PROPERTY LINE
	EX. WATER VALVE/CHAMBER
	PROP. VALVE PER CITY W24
	FIRE HYDRANT
	PROPOSED WALL
	PROPOSED SIAMASE CONNECTION
	PROPOSED WATER METER AND REMOTE METER
	PROPOSED CONCRETE SIDEWALK
	PROP AND EX. REDUCER
	U/G HYDRO DUCT PER ELEC.
	EX. STM SEWER
	EX. STM SEWER
	EX. SAN SEWER
	BELL AND ROGERS CONDUIT FOR BUILDING PER ELEC.
	CENTRELINE OF SWALE
	PROPOSED ROADCUT AND REINSTATEMENT PER CITY R10
	CB SILT SACK PER C01 DETAIL
	SERVICE/SEWER CROSSING
	EX. UG STREET LIGHT
	EX. TRAFFIC LINE
	EX. WATERMAIN
	EX. GAS
	EX. OHW
	EX. GAS
	EX. BELL
	EX. ROGERS

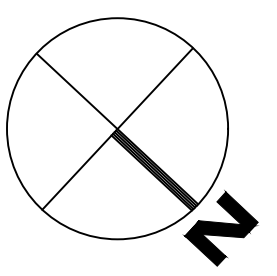
1	ISSUED FOR SPC AND MUNICIPAL CONSENT	SEPT 05, 2024
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Check and verify all dimensions before proceeding with the work





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Client:		THEBERGE DEVELOPMENTS LTD 1600 LAPERRIERE AVE OTTAWA, ON K1Z 8P5	
Project:		3030 ST. JOSEPH BOULEVARD	
Drawing Title:		PLAN & PROFILE STA. 3+000 TO 3+020	
Scale:	1:200	Project Number:	CCO-24-0142
Drawn By:	RRR	Checked By:	AM
Designed By:	RRR	Drawing Number:	C203