	ATERMAIN NOTES:			SEWER NOTES: 1. ALL WORKS SHALL BE PERF		WITH CITY OF OTT
1.	ITEM	SPEC. No. REFERE	NCE	AND SPECIFICATIONS F-4070		
	WATERMAIN TRENCHING THERMAL INSULATION IN SHALLOW TRENCHES	W22, W23 CITY OF	OTTAWA	2. SPECIFICATIONS: ITEM	SPEC.	No. R
	WATERMAIN CROSSING BELOW SEWER WATERMAIN CROSSING ABOVE SEWER	W25.2 CITY OF	OTTAWA OTTAWA	CATCHBASIN (600x600mm) STORM / SANITARY MANHC	S1	
	WATERMAIN PIPE VALVE CHAMBER VALVE BOX		OTTAWA OTTAWA OTTAWA	CB & CBMH FRAME & COVE STORM / SANITARY MH FRA	R S19, 4	00.020 CITY O 24.1,S25 CIT
	TVS CONNECTION		OTTAWA	SEWER TRENCH - BEDDING COVER (GRAN	G(GRANULAR A) S6,S JLAR A OR SAND) S6,S	
2.	SUPPLY AND CONSTRUCT ALL WATERMAINS AND A CITY OF OTTAWA STANDARDS AND SPECIFICATION			STORM SEWER	PVC SI	DR 35/CONC DR 35 WITH RUBE
	RESTORATION OF ALL WATERMAINS BY THE CONTR THE MAIN AND CHLORINATION OF THE WATER SYST	RACTOR. CONNECTIONS AND SHU	T-OFFS AT Y OFFICIALS.			DR 35 MINIMUM 1
	NO WORK SHALL COMMENCE UNLESS A CITY WATE CITY OF OTTAWA SPECIFICATIONS F-4411, F-4412, F		REFER TO 8 E-4419	3. STORM SEWER TYPE AND C		
	F-4491, F-4492, F-4493, F-4494 AND ANY OTHER APPL	-ICABLE SPECIFICATIONS.		4. INSULATE ALL STORM AND S CITY OF OTTAWA F-4102.	ANITARY PIPES THAT HAV	E LESS THAN 2.0
	WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOV			5. SEWER BEDDING SHALL BE ( UNLESS OTHERWISE NOTED		OTTAWA STANDA
	WATERMAIN BEDDING DEPTH TO BE AS PER EXP GE			<ol> <li>PIPE BEDDING, COVER AND I</li> </ol>	-	IPACTED TO AT LE
5.	MINIMUM CLEARNCE BETWEEN CROSSING PIPES TO PIPE AS PER CITY OF OTTAWA SPECIFICATION W 25 THE PIPE AS PER CITY OF OTTAWA SPECIFICATION	5.2 AND 0.50m WHEN WATER CROS		STANDARD PROCTOR MAXIN BEDDING LAYER SHALL NOT	IUM DRY DENSITY. THE US	SE OF CLEAR CRU
6	INSULATE ALL WATERMAIN AT ALL CATCHBASINS AI			REPORT DATED DECEMBER	2017.	
	FIRE HYDRANTS AS PER CITY OF OTTAWA DETAILS			7. FLEXIBLE CONNECTIONS AR CONCRETE PIPES. CONTRAC		
8.	ALL WATERMAIN TO BE INSTALLED WITH THRUST B		AS PER	8. THE OWNER SHALL REQUIRI TESTS FOR QUALITY CONTR		
	F-4492, W25.3, W25.4, W25.5 AND W25.6. NOTE LOCA BETWEEN 125 AND 175 kPa. THEREFORE, USE TABL			TESTING SHALL BE COMPLE FIELD TESTS SHALL BE PER	TED IN ACCORDANCE WIT	TH OPSS 410.07.16
9.	THRUST BLOCKS TO BE INSTALLED ON ALL CAPS, T			ENGINEER WHO SHALL SUB		
10	VALVES, OTHER FITTINGS THAT STOP FLOW OR CH.			9. STORM MANHOLES WITH PIF	ES LESS THAN 900mm DIA	METER TO HAVE
10.	RESTRAINING RINGS TO BE INSTALLED ON ALL CAP VERTICAL BENDS, REDUCERS, SLEEVES, COUPLING	GS, CURB-STUBS, AUXILIARY,		10. ALL CATCHBASINS ARE TO H IN TWO DIRECTIONS AND PA		
	ISOLATION/LINE/BRANCH VALVES, TAPPING VALVES FLOW OR CHANGE DIRECTION AND PUSH ON JOINT OF OTTAWA DETAIL W25.5 AND W25.6.		PER CITY	11. CONTRACTOR TO TELEVISE	(CCTV) ALL PROPOSED SE	EWERS AS PER O
11	WHERE WATERMAIN DEFLECTION IS REQUIRED, DE	FLECT AT A MAXIMUM 1/2 THE		OF OTTAWA F-4090 AND DYE	TEST SANITARY SEWERS	5.
	MANUFACTURERS RECOMMENDATION, MAXIMUM 1.			12. SEWER TRENCHES TO BE BA PROFILE, IN ORDER TO MINIF		
12.	WATER SERVICE IS TO BE CONSTRUCTED TO WITH UNLESS OTHERWISE INDICATED.	IN 1.0m OF FOUNDATION WALL AND	,	SERVICES.		
13.	IN ACCORDANCE WITH THE CITY OF OTTAWA STAND		BE LOCATED	<ol> <li>BEDDING AT THE ROCK/SOIL</li> <li>ALL SEWER PIPES INSTALLE</li> </ol>		
	WITHIN 3.0m OF A FIRE HYDRANT. NO OBJECTS INC PLANTED WITHIN A 3.0m CORRIDOR BETWEEN A FIR	RE HYDRANT AND THE EDGE OF A F	ACED OR	AND SHALL BE CHECKED WI		
	OR A 1.5m RADIUS BESIDE OR BEHIND A FIRE HYDR			15. CONTRACTOR TO INSTALL C SEALS PER CITY OF OTTAWA		
14.	CATHODIC PROTECTION REQUIRED FOR PVC WATE W40,W42, AND F-4494. ALL WATERMAIN TO BE INSTA CITY OF OTTAWA W-36 AND F-4493.		IRE AS PER	16. SERVICES ARE TO BE CONS	RUCTED TO 1.0m FROM F	ACE OF BUILDING
15.	WATERMAIN TESTING REQUIRED AS PER CITY OF O	)TTAWA SPECIFICATIONS F-4491 IN	CLUDING	SLOPE OF 1.0%. ALL SERVIC OTTAWA SPECIFICATIONS S		FER VALVES AS P
<sup>3+000</sup>	THE USE OF CHLORINATION NOZZLE AS PER CITY C					
	21.12	TO BE ABANDONED AS PER	PRIVÉ DE LA RÉCC		•	
		CITY OF OTTAWA DETAIL		$\frown$		
/		173	48.0m-200mmØ SAN @ 3.10	3+050		OTTAW
$\square$	BI.	<u>11.25°</u>	¥46.5m-250mmØ STM @ 3.20 ¥		— <u> </u>	+
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NOTE: THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER APPROVED UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON \_ DAY OF THIS THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. JEFF MCEWEN, P.ENG., MANAGER BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

**DEVELOPMENT REVIEW, SUBURBAN SERVICES** 

REFUSED

