G	ENERAL NOTES:					
	COORDINATE AND SCHEDULE ALL WORK WITH OTHE DETERMINE THE EXACT LOCATION, SIZE, MATERIAL & CONSTRUCTION. PROTECT AND ASSUME RESPONSI DRAWING.	AND ELEVATION O				
	OBTAIN ALL NECESSARY PERMITS AND APPROVALS BEFORE COMMENCING CONSTRUCTION OBTAIN AND LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE CO INSURED	O PROVIDE PROOF	OF COMPREHENSIVE, ALL RISK AND OPERATIONAL			
5.	CO-INSURED. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD					
6.		RIAL, ORGANIC MA ANY CONTAMINAT	TERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED ED MATERIAL. ALL CONTAMINATED MATERIAL SHALL			
7.	ALL DIMENSIONS AND INVERTS MUST BE VERIFIED P CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPT		JCTION. IF THERE IS ANY DISCREPANCY THE			
8.	ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARKS ARE THE FIRE HYDRANT TOP OF SPINDLE . BM NO.1 IS LOCATED APPROXIMATELY 105m FROM MERIVALE RD AND CLYDE AVE INTERSECTION, LOCATED ON THE EAST SIDE OF CLYDE AVE. BM NO.2 IS LOCATED AT THE EAST SIDE OF CLYDE AVE AND APPROXIMATELY 155m FROM BASELINE ROAD AND CLYDE AVE INTERSECTION.(BM NO. 1 ELEV = 95.96, BM NO. 2 ELEV = 96.25). REFER TO ANNIS, O'SULLIVAN, VOLLEBEKK LTD. TOPOGRAPHICAL PLAN OF SURVEY PART OF LOTS 18 AND 19, 20 AND 21 REGISTERED PLAN 30 CITY OF OTTAWA.					
9.	REFER TO GEOTECHNICAL INVESTIGATION REPORT SUBSURFACE CONDITIONS, CONSTRUCTION RECOM GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITI GRANULAR MATERIAL.	IMENDATIONS AND	GEOTECHNICAL INSPECTION REQUIREMENTS. THE			
10.	REFER TO ARCHITECT'S AND LANDSCAPE ARCHITEC DIMENSIONS.	CT'S DRAWINGS FC	R BUILDING AND HARD SURFACE AREAS AND			
	REFER TO THE STORMWATER MANAGEMENT REPOR	·				
	R10 AND R25). PROVIDE LINE/PARKING PAINTING.					
	CONTRACTOR TO PROVIDE THE CONSULTANT WITH INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFO INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIO ALIGNMENT CHANGES, ETC.	RMATION MUST IN	ICLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES,			
15.	CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FO	OR CONSTRUCTION	I PURPOSES.			
SE	EWER NOTES:					
	STANDARDS AND SPECIFICATIONS.	TENANCES IN ACC	ORDANCE WITH THE MOST CURRENT CITY OF OTTAWA			
2.	SPECIFICATIONS: <u>ITEM</u> SANITARY/STORM/CATCHBASIN MANHOLE (1200Ø)	<u>SPEC. No.</u> 701.010	REFERENCE OPSD			
	STORM MANHOLE (1500Ø) STORM MANHOLE (1800Ø) CATCHBASIN (600x600)	701.011 701.012 705.010	OPSD OPSD OPSD			
	DOUBLE CATCH BASIN (600 X 1450) CATCHBASIN FRAME AND COVER	705.020 400.020	OPSD OPSD			
	STORM/SANITARY MH FRAME SANITARY COVER STORM COVER (CLOSED)	S25 S24 S24.1	CITY OF OTTAWA CITY OF OTTAWA CITY OF OTTAWA			
	STORM COVER (OPEN)	S28.1 S6 &S7	CITY OF OTTAWA CITY OF OTTAWA			
	STORM SEWER < 450mmØ STORM SEWER >= 450mmØ SANITARY SEWER		SS SPECIFIED OTHERWISE) SS SPECIFIED OTHERWISE) CITY OF OTTAWA			
	CATCHBASIN LEAD CATCHBASIN COVER ROAD SUBDRAIN (CONTINUOUS) WATERTIGHT FRAME & COVER	PVC DR 35 S19 R1 401.030	CITY OF OTTAWA CITY OF OTTAWA OPSD			
2.	INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS TH CLEARANCE BETWEEN PIPE AND INSULATION (REFE		ITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm			
	SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM		· · · · · · · · · · · · · · · · · · ·			
4.	ALL STORM AND SANITARY LATERALS SHALL BE EQU OTTAWA STANDARD DETAILS S14 AND S14,1 OR S14.		LOW PREVENTION DEVICES AS PER THE CITY OF			
5.	GRANULAR A (CONCRETE OR PSM PVC PIPES) OR SA	ACED ON BEDROC DDING SHOULD EX F 300 mm ABOVE T AND (CONCRETE P	K, THE THICKNESS OF THE BEDDING SHOULD BE			
6.	THE FROST ZONE (ABOUT 1.8 m BELOW FINISHED GF REDUCE THE POTENTIAL DIFFERENTIAL FROST HEAV	RADE) SHOULD MA VING. THE TRENC	H BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN TCH THE SOILS EXPOSED AT THE TRENCH WALLS TO H BACKFILL SHOULD BE PLACED IN MAXIMUM 300 mm			
7.	THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNI SEAL AND DURASEAL), THE CONCRETE CRADLE FOR	ECTING PIPES TO	MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE			
8.	ALL STORM MANHOLES MANHOLES WITH PIPE SIZES INDICATED. ALL STORM MANHOLES WITH PIPE SIZES	S LESS THAN 900m	n ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE			
9.	CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED S ASPHALT TO ENSURE THAT THEY ARE CLEAN AND O RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPROVAL FROM THE CITY'S SEWER OPERATIONS.	SEWERS 200mm O PERATIONAL. UPC APPURTENANCES	R GREATER IN DIAMETER PRIOR TO BASE COURSE IN COMPLETION OF CONTRACT, THE CONTRACTOR IS 3 AND RE CCTV PRIOR TO ACCEPTANCE. OBTAIN			
	AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-E SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE	BUILT INFORMATIC	ANY ALIGNMENT CHANGES, ETC.			
11.	THE OWNER SHALL REQUIRE THAT THE SITE SERVIC ALL SANITARY SEWERS. LEAKAGE TESTING SHALL B 407.07.24. DYE TESTING IS TO BE COMPLETED ON AL SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY (BE COMPLETED IN . LL SANITARY SERV PERFORMED IN ⁻	ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND ICES TO CONFIRM PROPER CONNECTION TO THE THE PRESENCE OF A CERTIFIED PROFESSIONAL			
12.	ALL CATCHBASINS AND CATCHBASIN MANHOLES TO E EXTENDING IN TWO DIRECTIONS AT THE SUBGRADE L DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRAD DRAINAGE LINES.	EVEL. SUBDRAIN	S TO BE PROVIDED AT THE TRANSITIONS BETWEEN			
11.	ALL WORKS SHALL BE PERFORMED AS APPLICABLE AND IN PARTICULAR O.P.S.S. 407 AND 410.	IN ACCORDANCE	WITH CITY OF OTTAWA STANDARD SPECIFICATIONS,			
	ATERMAIN NOTES:					
M	SUPPLY AND CONSTRUCT ALL WATERMAIN AND APF OTTAWA STANDARDS AND SPECIFICATIONS.	PURTENANCES IN .	ACCORDANCE WITH THE MOST CURRENT CITY OF			
-	2. SPECIFICATIONS:					
1.	SPECIFICATIONS: ITEM	SPEC. No.				
1.	<u>ITEM</u> WATERMAIN TRENCHING THERMAL INSULATION IN SHALLOW TRENCHES	W17 W22	CITY OF OTTAWA CITY OF OTTAWA			
1.	ITEM WATERMAIN TRENCHING	W17				

- PERFORMED BY CITY OFFICIALS. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. ANY WATERMAIN WITH LESS
- THAN 2.4m COVER TO BE INSULATED PER THE SEWER AND WATERMAIN NOTES AND DETAIL. 4. PROVIDE MINIMUM CLEARANCE, BETWEEN OUTSIDE OF PIPES, AT ALL CROSSINGS AS PER CITY DETAILS W25 AND W25.2. WATERMAIN MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.25m OVER AND 0.50m UNDER SEWERS AND ALL OTHER
- UTILITIES WHEN CROSSING. 5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.
- 6. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS CITY OF OTTAWA STANDARD DETAILS WSD-39, 40, 41, 42, 43 AND
- 8. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

1. SIDE SLOPE OF SWALE - MIN. 1.5%, MAX. 3:1. 2. LONGITUDINAL SLOPE OF SWALE WITHOUT PERFORATED PIPE 1.5% MIN. 3. LONGITUDINAL SLOPE OF SWALE WITH PERFORATED PIPE 0.5% MIN. WITH 1% OR GREATER PREFERRED. 7. GEOTEXTILE SHALL BE APPROVED NON-WOVEN CLASS 1 OR AS SPECIFIED. 8. MAXIMUM REAR YARD WATER DEPTH IS 300mm. Ittawa **EWER & WATERMAIN INSULATION NOTES:** INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL WATERMAIN WITH LESS THAN 2.4m OF COVER WITH EXPANDED POLYSTYRENE INSULATION AS PER OPSD

NOTE 1

APPROVED 22.5° RADIUS -BENDS AS REQUIRED

BEDDING AND COVER -AS SPECIFIED

150mm MIN.-

ELBOW (S3

150mm MIN.-

Ittaw

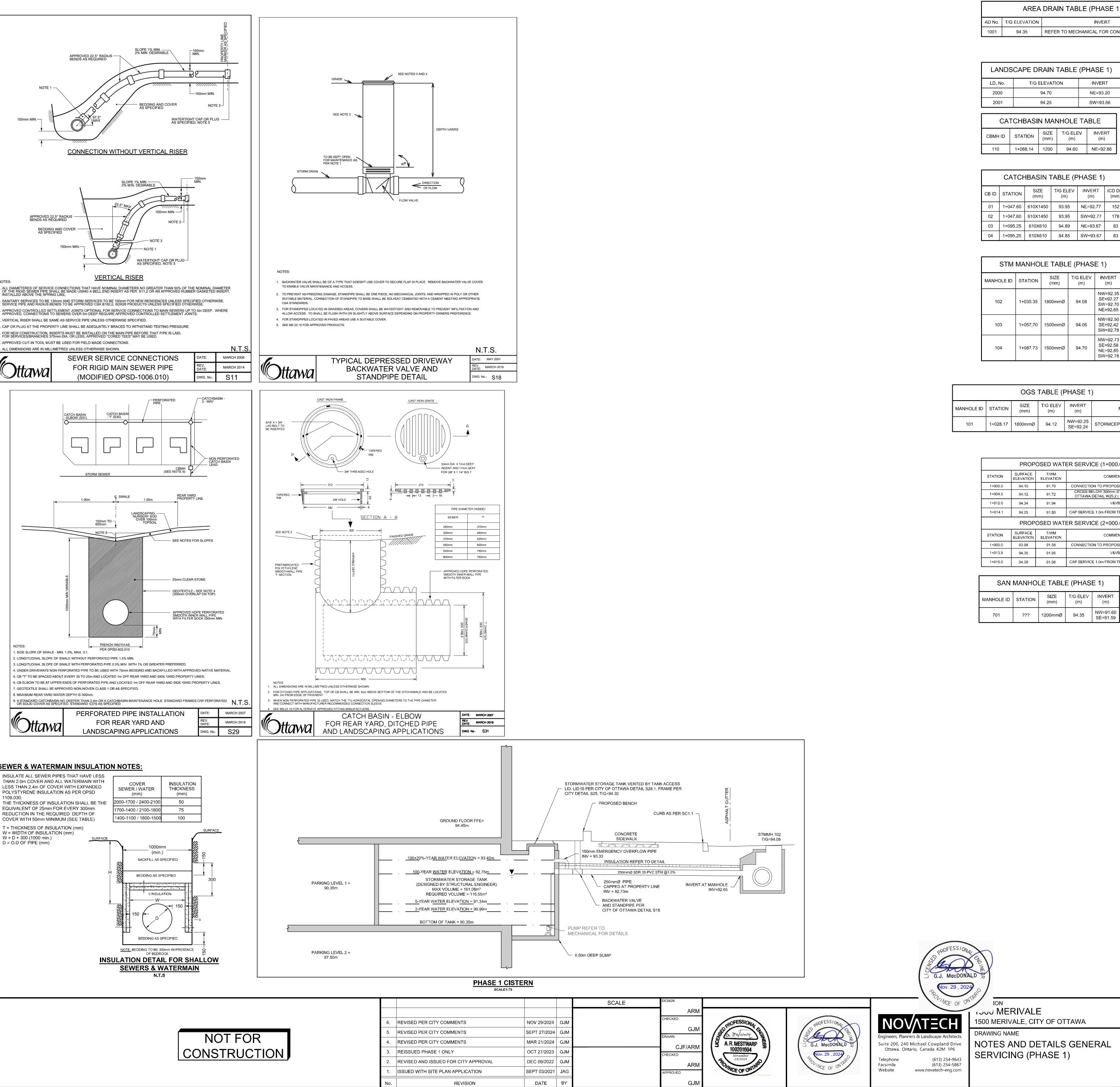
1109.030. THE THICKNESS OF INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE) T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm) W = D + 300 (1000 min.) SURF D = O.D OF PIPE (mm)

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NOTE:

CLARIDGE HOMES CLARIDGE HOMES 505 PRESTON STREET, 2ND FLOOR OTTAWA , ONTARIO K1S 4N7





AREA DRAIN TABLE (PHASE 1					
AD No. T/G ELEVATION INVI	ERT				
1001 94.35 REFER TO MECHANICAL F	OR CONN				

LANDSCAPE DRAIN TABLE (PHASE 1)							
LD. No.	T/G	T/G ELEVATION INVERT					
2000		94.70 NE=93.20					
2001		94.25			SW=93.66		
CATCHBASIN MANHOLE TABLE							
CBMH ID	STATION	SIZE (mm)	T/G ELEV (m)		INVERT (m)		
110	110 1+088.14		94.60		NE=92.86		

CATCHBASIN TABLE (PHASE 1)								
CB ID	STATION	SIZE (mm)	T/G ELEV (m)	INVERT (m)	ICD DIA (mm)			
01	1+047.60	610X1450	93.95	NE=92.77	152			
02	1+047.60	610X1450	93.95	SW=92.77	178			
03	1+095.25	610X610	94.89	NE=93.67	83			
04	1+095.25	610X610	94.85	SW=93.67	83			

STM MANHOLE TABLE (PHASE 1)							
MANHOLE ID	STATION	SIZE (mm)	T/G ELEV (m)	INVERT (m)			
102	1+035.35	1800mmØ	94.08	NW=92.35 SE=92.27 SW=92.70 NE=92.65			
103	1+057.70	1500mmØ	94.06	NW=92.50 SE=92.42 SW=92.78			
104	1+087.73	1500mmØ	94.70	NW=92.73 SE=92.58 NE=92.85 SW=92.78			

OGS TABLE (PHASE 1)							
MANHOLE ID	STATION	SIZE (mm)	T/G ELEV (m)	INVERT (m)	МС		
101	1+028.17	1800mmØ	94.12	NW=92.25 SE=92.24	STORMCEPTO		

PROPOSED WATER SERVICE (1+000.0)							
COMMENTS	T/WM ELEVATION	STATION SURFACE ELEVATION					
CONNECTION TO PROPOSED	91.70	94.10	1+000.0				
CROSS BELOW 300mm STM OTTAWA DETAIL W25.2 (CL	91.72	94.12	1+004.5				
V&VB	91.94	94.34	1+012.0				
CAP SERVICE 1.0m FROM THE	91.80	94.25	1+014.1				
PROPOSED WATER SERVICE (2+000.0)							
COMMENTS	T/WM ELEVATION	SURFACE ELEVATION	STATION				
CONNECTION TO PROPOSED	91.58	93.98	1+000.0				
V&VB	91.95	94.35	1+013.9				
CAP SERVICE 1.0m FROM THE	91.98	94.38	1+015.0				

SAN MANHOLE TABLE (PHASE 1)							
MANHOLE ID STATION		SIZE (mm)	T/G ELEV (m)	INVERT (m)			
701	???	1200mmØ	94.35	NW=91.60 SE=91.59			

	PROJECT No.		ITY FILE No. D07-12-21-0152
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) [.] s D 200	UNDATION WA	E	
) 'S D 200 M AS I	MODEL EF0 mmØ SERVICI PER CITY OF ANCE =0.54)		
ODE	L		
A.			
IECT	ION DETAIL	.5	

CITY PLAN No. 18612