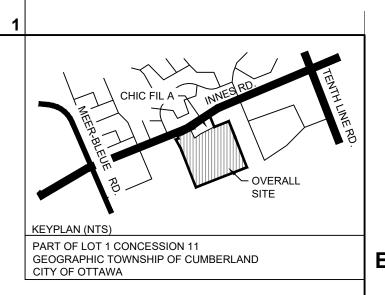
	SENERAL NOTES:					SANITARY SEWER NOTES
1.	SURVEY INFORMATION PROVIDED BY J.D BARNES DATED 2023-06-12 GRID BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RIN) OBSERVATIONS, VIM LONE 18, NAD85 (CSRS) (2010.0). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999610.				NCES ARE OR OF 0.999610.	<ol> <li>ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWING AND SPECIFICATIONS (OPSS).</li> </ol>
	FOR BEARING COMPARISONS, A ROTATION OF 1'04'07" CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN P1, P2 AND P3 TO ROTATE TO NAD83 UTM 18.				<ol> <li>ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDA OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.</li> </ol>	
	<ol> <li>GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES PRIOR TO COMMENCEMENT OF CONSTRUCTION/DEMOLITION.</li> <li>ALL WORK TO BE DONE BY THE CENERAL CONTRACTOR UNITED OTHERWICE - WITHIN</li> </ol>				3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BI	
3.	ALL WORK TO BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE WITHIN     PROPERTY/LEASE LINES.     ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND					<ul> <li>4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT</li> </ul>
4.	SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.					AND MARKED WITH A 50MM X 100MM WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0 M ABOVE PAINTED RED.
5.	. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR				<ol> <li>SEWER BEDDING AS PER CITY STANDARD S6 &amp; S7. GRANULAR 'A' BEDDING TO BE INCREASED TO 300MM SEWERS ARE BELOW THE GROUNDWATER TABLE.</li> </ol>	
	ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.				LL BE URING	<ol> <li>SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021. SANITARY MANHOLE FRAME AI SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25. SAFETY PLATFORMS SHALL BE AS PER OPSD 404. STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.</li> </ol>
6.	THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. ALL DIMENSIONS SHALL BE CHECKED AND VERIEIED IN THE CIPIL DIRY THE CONTRACTOR PRIOR TO THE START OF				ING SERVICES AND AUSE CONFLICTS L DIMENSIONS	7. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALL/ VIEWED BY THE ENGINEER.
	SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.				<ol> <li>THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AI EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INS</li> <li>ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 &amp; S11.1.</li> </ol>	
7.	2. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. ALL DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.				10. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.07 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUE EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.	
8.	8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE				11. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER OTTAWA STANDARD DRAWING S14.1.	
9.	SAME. 9. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND				12. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDE MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.	
	REGULATIONS FOR CONSTRUCTION PROJECTS", THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.				13. MINIMUM SOIL COVER TO BE 2.1M TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEC	
10.	10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING JURISDICTION.				FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER OP	
11.	<ol> <li>ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE</li> </ol>				STORM SEWER NOTES 1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE	
10	2. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN				ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWING AND SPECIFICATIONS (OPSS).	
	WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT). 3. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY				<ol> <li>ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATES AMENDMENT).</li> </ol>	
14	HAVING JURISDICTION.	ATERIALS UNLESS WR		VAL BY THE FNG	NEER HAS BEEN	3. ALL MAIN STORM SEWERS SHALL BE PVC SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, OTHERWISE SPECIFIED.
-	OBTAINED.					<ol> <li>THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 / RIGID STORM PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSD 802.030. DURING CONSTRUCT</li> </ol>
	<ol> <li>EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.</li> <li>THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING &amp; GRADING</li> </ol>				GRADING	CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BA SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
17	DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.				5. SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 & S7.	
18	MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.				<ol> <li>ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50MM X IOOMM WO MARKER EXTENDING FROM THE INVERT TO 1.0M ABOVE GRADE PAINTED GREEN.</li> </ol>	
10.	18. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED AY THE CONTRACTOR. REVIEW WITH ENGINEER AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.				7. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.	
19.	<ol> <li>ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. THE GRANULAR BASE COURSES AND ASPHALT LAYERS SHALL BE STEPPED AS PER DETAIL ON THIS DRAWING.</li> </ol>					8. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDE MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE
	<ol> <li>ALL BOREHOLES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY.</li> <li>FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION PROPOSED CHICK-FIL-A</li> </ol>				HICK-FII -A	<ol> <li>9. MINIMUM SOIL COVER TO BE 2.1M TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEC FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER OPS</li> <li>10. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.</li> </ol>
	RESTAURANT #30042 PREPARED BY BLUEFROG ENVIRONMENTAL CONSULTING INC., DATED AUGUST 22, 2024				AUGUST 22, 2024	11. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1 AND S25.
22.	<ol> <li>PROPOSED PAVEMENT STRUCTURE SHALL BE HEAVY DUTY PAVEMENT PER RECOMMENDATIONS OF THE GEOTECHNICAL REPORT:</li> </ol>				UNS OF THE	12. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
	PAVEMENT STRUCTURE	COMPACTION	PARKING	HEAVY DUTY	RIGID	13. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003
	CONCRETE		AREA		 225 mm	14. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900MM SHALL BE CONSTRUCTED WITH SUMP. FOR STORM SEWERS 900MM AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701 .021.
	HL-3 SURFACE COURSE	97% MARSHALL	40mm	40mm		15. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1. AND OPS RESPECTIVELY.
	HL-4 BINDER COURSE	97% MARSHALL DENSITY	40mm	60mm		<ol> <li>SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200MM AND 250MMØ (MIN) RESPECTIVELY, 1.0% SLO UNLESS OTHERWISE NOTED.</li> </ol>
	GRANULAR 'A'	100% SMDD	150mm	150mm	150mm	17. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300MM DEPTH, UNLESS OTHE NOTED.
	GRANULAR 'B' TYPE II	100% SMDD	450mm	450mm	400mm	18. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WC
	EXCERPTED FROM GEOTECHNICAL INVESTIGATION PROPOSED CHICK-FIL-A RESTAURANT #30042 PREPARED BY BLUEFROG ENVIRONMENTAL CONSULTING INC., DATED AUGUST 22, 2024				19. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. WHEF SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITION BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHA BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIL	
	. THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR					TRENCH.
23.	ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.					20. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
		OUND CONDITIONS VA	ARYING FROM	THOSE ANTICIPA	ANY CLAIM FOR TED BY THE	
24.	4. DO NOT CONSTRUCT USING DRAWINGS	OUND CONDITIONS VA	ARYING FROM	THOSE ANTICIPA	ANY CLAIM FOR TED BY THE N".	
24. 25.	<ol> <li>DO NOT CONSTRUCT USING DRAWINGS</li> <li>CIVIL DRAWINGS TO BE READ IN CONJUN</li> <li>ALL NECESSARY CLEARING AND GRUBBI</li> </ol>	OUND CONDITIONS VA THAT ARE NOT MARKE ICTION WITH ARCHITE NG SHALL BE COMPLE	ARYING FROM ED "ISSUED FC CTURAL, LANI ETED BY THE (	THOSE ANTICIPA OR CONSTRUCTIO DSCAPE AND LEG CONTRACTOR. RE	ANY CLAIM FOR TED BY THE N". AL DRAWINGS.	SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED. EROSION AND SEDIMENT CONTROL 1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO REMOVAL OF TEMPORA DRAINAGE DITCHES AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEG COVER IS ESTABLISHED.
24. 25. 26.	<ol> <li>DO NOT CONSTRUCT USING DRAWINGS <sup>-</sup></li> <li>CIVIL DRAWINGS TO BE READ IN CONJUN</li> <li>ALL NECESSARY CLEARING AND GRUBBI CONTRACT ADMINISTRATOR AND THE CI</li> </ol>	OUND CONDITIONS VA THAT ARE NOT MARKE ICTION WITH ARCHITE NG SHALL BE COMPLE TY OF OTTAWA PRIOR	ARYING FROM ED "ISSUED FC ECTURAL, LANI ETED BY THE ( TO ANY TREE	THOSE ANTICIPA OR CONSTRUCTIO DSCAPE AND LEG CONTRACTOR. RE	ANY CLAIM FOR TED BY THE N". AL DRAWINGS.	<ol> <li>SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.</li> <li>EROSION AND SEDIMENT CONTROL</li> <li>CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO REMOVAL OF TEMPORA DRAINAGE DITCHES AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEG COVER IS ESTABLISHED.</li> <li>ALL T FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMEN</li> <li>EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM CBS AND CBMHS. ENSURE POSITIVE DRAIN</li> </ol>
24. 25. 26. 27.	<ol> <li>DO NOT CONSTRUCT USING DRAWINGS <sup>-</sup></li> <li>CIVIL DRAWINGS TO BE READ IN CONJUN</li> <li>ALL NECESSARY CLEARING AND GRUBBI CONTRACT ADMINISTRATOR AND THE CI</li> <li>STREET LIGHTING SHALL BE TO CITY OF</li> </ol>	OUND CONDITIONS VA THAT ARE NOT MARKE ICTION WITH ARCHITE NG SHALL BE COMPLE TY OF OTTAWA PRIOF OTTAWA STANDARDS	ARYING FROM ED "ISSUED FC ECTURAL, LANI ETED BY THE ( TO ANY TREE	THOSE ANTICIPA OR CONSTRUCTIO DSCAPE AND LEG CONTRACTOR. RE	ANY CLAIM FOR TED BY THE N". AL DRAWINGS.	<ol> <li>SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.</li> <li>EROSION AND SEDIMENT CONTROL</li> <li>CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO REMOVAL OF TEMPORA DRAINAGE DITCHES AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEG COVER IS ESTABLISHED.</li> <li>ALL T FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMEN</li> <li>EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM CBS AND CBMHS. ENSURE POSITIVE DRAIN TOWARDS NEW CBS AND CBMHS (SUCH AS SILT SACKS - SEE DETAIL).</li> <li>ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS THE PROJECT PROGRESSES. CONTR</li> </ol>
24. 25. 26. 27. <u>G</u>	<ol> <li>DO NOT CONSTRUCT USING DRAWINGS <sup>1</sup></li> <li>CIVIL DRAWINGS TO BE READ IN CONJUN</li> <li>ALL NECESSARY CLEARING AND GRUBBI CONTRACT ADMINISTRATOR AND THE CI</li> <li>STREET LIGHTING SHALL BE TO CITY OF</li> <li>SENERAL NOTES FOR GRA</li> <li>IT SHALL BE THE BUILDER'S RESPONSIBIL AND UTILITY PEDESTALS, ETC., MEET CU</li> </ol>	OUND CONDITIONS VA THAT ARE NOT MARKE ICTION WITH ARCHITE NG SHALL BE COMPLE TY OF OTTAWA PRIOR OTTAWA STANDARDS DING LITY TO ENSURE THAT	ARYING FROM ED "ISSUED FC ECTURAL, LANI ETED BY THE ( TO ANY TREE 	THOSE ANTICIPA OR CONSTRUCTIO DSCAPE AND LEG CONTRACTOR. RE E CUTTING.	ANY CLAIM FOR TED BY THE N". AL DRAWINGS. EVIEW WITH	<ol> <li>SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.</li> <li>EROSION AND SEDIMENT CONTROL</li> <li>CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO REMOVAL OF TEMPORA DRAINAGE DITCHES AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEG COVER IS ESTABLISHED.</li> <li>ALL T FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMEN</li> <li>EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM CBS AND CBMHS. ENSURE POSITIVE DRAIN TOWARDS NEW CBS AND CBMHS (SUCH AS SILT SACKS - SEE DETAIL).</li> <li>ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS THE PROJECT PROGRESSES. CONTR PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.</li> </ol>
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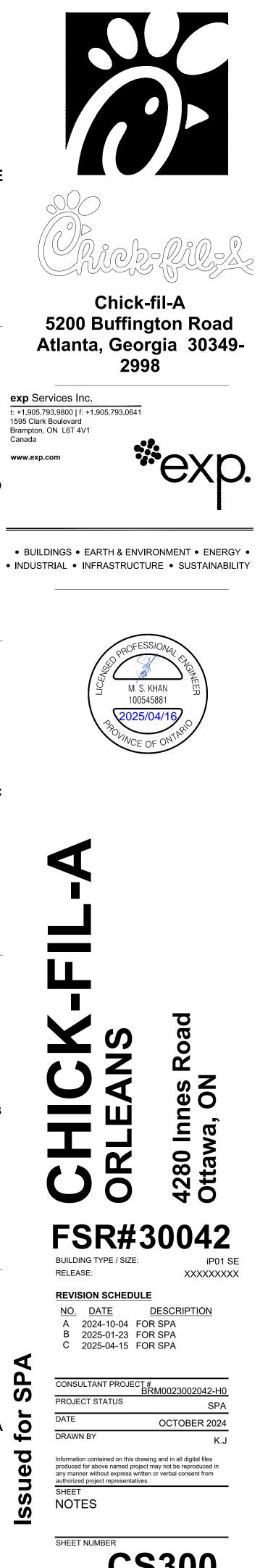
## RCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST IT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.L IENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST

## AND SEDIMENT CONTROL

## WATERMAIN NOTES

- 1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- 2. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
- 3. ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
- 4. WATERMAINS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 5. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
- 6. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STD. W26 UNLESS OTHERWISE SPECIFIED. ALL WATER SERVICES CROSSING SEWERS ARE TO BE INSTALLED AS PER CITY OF OTTAWA STD. W38. WATER SERVICES SHALL BE MARKED WITH A "50MM X IOOMM", EXTENDING FROM THE INVERT TO 1.0M ABOVE GRADE PAINTED BLUE. STAND POSTS/SHUT-OFFS SHALL BE INSTALLED AT THE PROPERTY LINE.
- 7. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
- 8. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.
- 9. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STANDARD W18 AND/OR CITY STANDARD CROSS SECTIONS.
- 10. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4M.
- 11. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25.6.
- 12. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- 13. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS
- 14. WATER METERS TO BE INSTALLED AS PER W30 FOR WATER SERVICES.
- 15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAN.
- 16. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAN COVER IS LESS THAN 2.4M.
- 17. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2M, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
- 18. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2. FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.50M AS PER CITY STD. 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.





City File: D07-12-24-0131 & Plan: 1759

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