GENERAL NOTES 1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS	8. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
 (OPSS), WHERE APPLICABLE. 2. 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 	 9. ALL UNDERGROUND PARKING FLOOR DRAINAGE IS TO BE DIRECTED TO THE SANITARY SEWER AS PER THE CITY OF OTTAWA SEWER DESIGN GUIDE LINES, CLAUSE 6.1.10. STORM SEWER NOTES:
SHALL BE RESPONSIBLE FOR 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.	ALL STORM SEVER NOTES. 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 DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS). TYPICAL STORMWATE
3. 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	2. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
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 VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST	3. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ST <
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.	 4. SEWER BEDDING AS PER CITY STANDARD S6 & S7 5. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE
 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 	TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS. 6. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST
OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.	HEAVING IN THE SUBGRADE.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 	8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY
"OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS", THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.	INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
7. 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 JURSIDICTION.	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 PROVICIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
 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 CONTRACTOR'S EXPENSE. 	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.
 THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT). 	3. 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.
10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.	4. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40. ALL ANODES SHALL BE A Z-24-48 AS PER CITY OF OTTAWA STD. W44.
11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.	5. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.	6. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR. 	7. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS. OVERHEAD GARAGE
14. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.	 8. WATER METER TO BE INSTALLED AS PER W32. 9. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL
15. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY PATERSON GROUP, DATED JANUARY 3, 2019, REPORT NO. PG 4184-1.	BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAN COVER IS LESS THAN 2.4m. B B B B B B B B B B B B B B B B B B B
16. 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 ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.	 <u>ROAD NOTES:</u> PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm
 DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION". 	AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.3. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 95%
 FOR CONSTRUCTION . 18. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY FARLEY, SMITH & DENIS SURVEYING LTD. DATED MARCH 16, 2018. 	STANDARD PROCTOR MAXIMUM DRY DENSITY. UNDERGROUND STORMWATEL 4. PAVEMENT STRUCTURE: MC-3500 STORMWATER CHAM FINISHED GRADI FINISHED GRADI
 CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, LANDSCAPE AND LEGAL 	PARKING AREAS: TOP OF GRANULAR E - 50mm SUPERPAVE 12.5 ASPHALTIC CONCRETE TOP OF CHAMBER - 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010) BOTTOM OF CHAMBER - 300mm GRANULAR "B" TYPE II (OPSS 1010) BOTTOM OF GRANULAR BASE FOR CHAMBER
DRAWINGS. 20. A SCHEMATIC DIAGRAM, INCLUDING PROPOSED ELEVATIONS, WITH	- 300mm GRANULAR "B" TYPE II (OPSS 1010) PAVEMENT DESIGN TYPE: ACCESS LANES AND HEAVY DUTY AREA: - 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE BOTTOM OF GRANULAR BASE FOR CHAMBERS BOTTOM OF GRANULAR BASE FOR INFILTRATION GROUND
DETAILS OF THE PROPOSED FOUNDATION DRAINS, STORM LATERAL CONNECTIONS AND INTERNAL MECHANICAL PUMPS, ETC. SHALL BE PREPARED BY THE MECHANICAL CONSULTANT, PRIOR TO REGISTRATION. 21. DUE TO THE PROXIMITY OF THE 1220mm DIAMETER WATERMAIN WITHIN	- 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE - 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010) - 450mm GRANULAR "B" TYPE II (OPSS 1010) GEMINI WAY: 150mmmø WEEPIN
THE BASELINE ROAD RIGHT OF WAY, UNDER NO CIRCUMSTANCES SHALL BLASTING BE PROVIDED AS PART OF THE EXCAVATION PROTOCOL.	- 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE Concrete - 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE - 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010)
SANITARY SEWER NOTES: 1. ALL SANITARY SEWER 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).	- 450mm GRANULAR "B" TYPE II (OPSS 1010) A/L ABANDONED SEWERS AND WATERMAINS ENCOUNTERED TO BE CAPPED/GROUTED AT THE PROPERTY LINE OR WHERE ENCOUNTERED IN THE RIGHT OF WAY TO THE SATISFACTION OF THE CITY'S SEWER OPERATIONS. 3.4m
 ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD 8182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED. 	B B B CONTRACTOR TO EXCAVATE IN ORDER TO LOCATE AND ABANDON PRIOR TO SHORING AND EXCAVATING FOR THE Concrete Concrete Curb B CONNECT 11.9m-250mmø STM @2.0% TO
 SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING UNLESS OTHERWISE NOTED. 	CONNECT 11.9m-250mmø STM @2.0% TO EXISTING 675mmø STORM PIPE AS PER CITY STD. S11.2 250ø PIPE INV.=±81.72
4. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.	
5. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE	PROPOSED 1.8m SIDEWALK INV.E=81.20 INV.E=81.24 INV.E=81.24 INV
 COMPACTED TO A MINIMUM OF 95% SPMDD. 6. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS. 	$- s - s \xrightarrow{EX.300 mm \emptyset} s^{ANITARY} \xrightarrow{SEWER} s \xrightarrow{P} s \xrightarrow{P} s \xrightarrow{P} x^{T} \xrightarrow{S} x^{T} x^{T} \xrightarrow{S} x^{T} \xrightarrow{S} x^{T} \xrightarrow{S} x^{T} x^{T} \xrightarrow{S} x^{T} x^{T} \xrightarrow{S} x^{T} x^{$
 ALL SANITARY BUILDING CONNECTIONS TO BE EQUIPPED WITH A SANITARY BACKWATER VALVE. REFER TO MECHANICAL DRAWINGS. 	T/G=85.82 INV.E=82.03 NV.W=82.09 NV.W=82.09
	© V&VB CONNËCT 12.4m−250mmø SAN @2.0% T EXISTING 300mmø SANITARY PIPE AS PE ≥ CITY_STD. S11.1_250mmø PIPE INV.=±82.1 ©
WATERMAIN / SEWER CROSSING	TABLE 3 B B CONNE
(m) (mm) ELEV (m) (mm) ELEV (m)	WATERMAIN WITH AI INV ELEV DIA OBV (m) ELEV (m) 430mm (San Above) SITE BENCHMARK
1 85.73 82.30 250 82.55 81.19 ex. 675 81.87 2 85.73 81.18 ex. 675 81.86 3 89.43 81.97 ex. 300 82.27	430mm (San Above) SPINDLE ELEVATION=86.86 83.21 200 83.41 1350mm (Water Above) 83.21 200 83.41 940mm (Water Above)
<u>CAUTION</u> The position of all pole lines,	
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES	

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AND STRUCTURES IS NOT NECESSARILY

OSITION OF SUCH UTILITIES AND

AMAGE TO THEM.

SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE

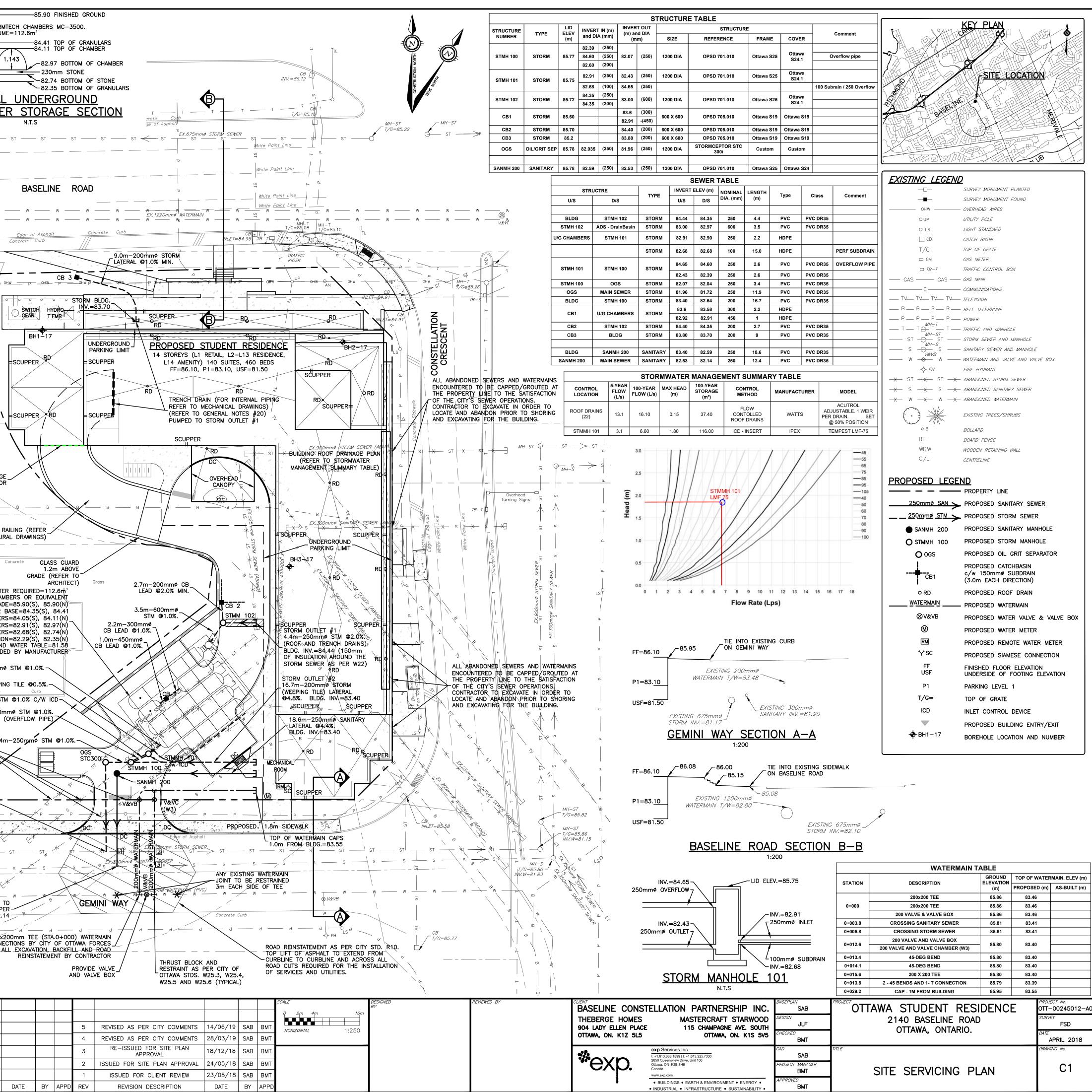
RUCTURES IS NOT GUARANTEED. BEFORE

STRUCTURES AND ASSUME ALL LIABILITY FOR

TARTING WORK, DETERMINE THE EXACT

OCATION OF ALL SUCH UTILITIES AND

REV REVISION DESCRIPTION



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