DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED		GENERAL NOTES: 1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF	 MINIMUM SOIL COVER TO BE 2.5m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER CITY STANDARD S35.
			050\#050 AND 070\107\1050				THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.	 ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24. S24.1 AND S25.
SITE FEATURES PROPERTY LINE			SERVICES AND STRUCTURES SANITARY SEWER	SEX.250mmø SAN	250mmø_SAN		 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 ADEQUATE PROTECTION OF PLANT AND 	12. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
TOP OF SLOPE			COMBINATION SEWER	SA SA SA SA	300mmø COMB		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.	13. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
TERRACING (3:1 TYPICAL)			STORM SEWER	st <u></u> ststst			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 STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF	14. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED WITH A 300mm SUMP. FOR STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701 .021.
€ DITCH/SWALE AND DIRECTION OF FLOW	_··-·	_··-·	STORM SUBDRAIN	EX.150mmø SUBDRAIN			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	15. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1. AND OPSD 705.020, RESPECTIVELY. FRAMES AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S19 FOR REAR LOT CATCHBASINS, AND
EDGE OF SHOULDER			STORM CULVERT	EX.600mmø CULVERT			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.	STREET CATCHBASINS.
EDGE OF PAVEMENT © ROAD/ALIGNMENT			SANITARY MANHOLE COMBINATION MANHOLE	○ EX.SAN ○ EX.COMB	■ SANMH 100 ○ COMBMH 100		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	 CURB INLET TYPE CATCH BASIN (CICB) SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S3. AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S22 AND S23, UNLESS OTHERWISE NOTED.
CHAINLINK FENCE	xx	xx	STORM MANHOLE	○ EX.STM	O STMMH 200		ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.	17. SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200mmØ AND 250mmØ (MIN) RESPECTIVELY, 1.0% SLOPE (MIN.) UNLESS OTHERWISE NOTED.
LANDSCAPE FENCE			CATCHBASIN MANHOLE	○ EX.CBMH	○ CBMH 100		5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.	18. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300mm DEPTH, UNLESS OTHERWISE NOTED.
SIDEWALK (TYPE AS NOTED ON DRAWINGS)			CATCHBASIN	□ EX.CB	■ CB1		ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "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.	19. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.
BARRIER CURB (SC1.1)			DOUBLE CATCHBASIN	EX.DCB	■■ DCB1		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	20. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA
MOUNTABLE CURB (SC1.3) DEPRESSED CURB			CATCHBASIN ELBOW (S30) CATCHBASIN TEE (S31)	○ EX.CBE ○ EX.CBT	O CBE		JURISDICTION.	TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
TACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)	DC	DC	CURB INLET CATCHBASIN	□ EX.CICB	■ CICB 1		8. 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.	21. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
GUARDRAIL	II II		DITCH INLET CATCHBASIN	■ EX.DICB	■ DICB 1		9. 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. BOOK 7 AND T.A.C MANUAL OF UNIFORM	WATERMAIN NOTES
JERSEY BARRIERS			WATERMAIN	200mmø_WATERMAIN			TRAFFIC CONTROL DEVICES (LATEST AMENDMENT). 10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING	 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).
BUILDING ENTRY/EXIT WITH RISERS BUILDING ENTRY/EXIT BARRIER FREE	▼xR ▼BF	▼xR ▼BF	IRRIGATION VALVE AND VALVE BOX	—— IR ——— IR ——————————————————————————			JURISDICTION.	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.
BUILDING ENTRY/EXIT OVERHEAD DOOR		▼ 51	VALVE AND VALVE CHAMBER	⊗ V&VC	⊗ V&VC		11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.	ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
POST	© POST	⊚ POST	FIRE HYDRANT	-Ò-FH	-Ó-FH		12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL	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.
SIGN	♭ SIGN	Þ SIGN	SIAMESE CONNECTION	Y`sc	Ƴsc		BE MAINTAINED ON SITE BY THE CONTRACTOR.	5. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN
BOLLARD	⊚ BOLL	⊚ BOLL	WATER METER REMOTE WATER METER	(<i>M</i>) RM	(M) IRM		14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.	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.
VEGETATION				√₁ 45°	<u>(t.m)</u> √₁ 45°		15. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED AY THE CONTRACTOR. REVIEW WITH ENGINEER AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.	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 100mm", EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED BLUE. STAND
			22.5° BEND	← 22°	~ 22°		16. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.	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.
			11.25° BEND	ы 200Х150 TFF	ы 11° ы 200Х150 ТЕЕ		17. ALL BOREHOLES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP. SERVICES INC, DATED NOVEMBER 5, 2019.	VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.
UTILITY AND STRUCTURES			TEE REDUCER	म 200X150 TEE ⊳200X100 RED	A 200X150 TEE D 200X100 RED		18. THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED	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.
JOINT UTILITY OVERHEAD LINE			CROSS	± 300×200 CROSS	⊕ 300X200 CROSS		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.	10. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
HYDRO (OVERHEAD)	——————————————————————————————————————	OH	CURB STOP	⊗ CS	● CS		19. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".	11. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25.6.
HYDRO POWER	— Р — Р —	——————————————————————————————————————	WATER WELL INSULATION FOR PIPE	(1)	₩		20. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY FARLEY, SMITH & DENIS LTD. DATED APRIL 18, 2022.	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.
ELECTRICAL	E	Ε	INSULATION FOR FIFE				21. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, LANDSCAPE AND LEGAL DRAWINGS.	13. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
BELL (OVERHEAD)	OB	OB					22. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.	14. WATER METERS TO BE INSTALLED AS PER W30 FOR WATER SERVICES.
BELL	В	В	GRADING				23. THE CONTRACTOR IS REPSONSIBLE TO KEEP ROADS CLEAR OF MUDAND DEBRIS.	15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAN.
CABLE (OVERHEAD)		OC	GROUND ELEVATION	X 100.00	X 100.00		SANITARY SEWER NOTES	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.
CABLE TV FIBRE OPTIC	C	C	SWALE ELEVATION	X 100.00(S)	X 100.00(S)	1. MEcerol	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	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.
STREETLIGHT	SL SL		TOP OF GRATE ELEVATION	T/G=100.00	T/G=100.00		(OPSS). 2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR	18. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25m FOR
GASMAIN	G G		TOP OF WALL ELEVATION	X 100.00 T/W		ANDREW MCCREIGHT	LATEST AMENDMENT, UNLESS OTHERWISE NOTED.	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
JOINT USE TRENCH — BELL/CABLE TV	BC	BC	BOTTOM OF WALL ELEVATION FINISHED FLOOR ELEVATION	X 100.00 B/W FF=100.00	X 100.00 B/W FF=100.00	MANAGER, DEVELOPMENT REVIEW CENTRAL	3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING UNLESS OTHERWISE NOTED.	SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
JOINT USE TRENCH - HYDRO/CABLE TV	——————————————————————————————————————	——————————————————————————————————————	TOP OF FOUNDATION ELEVATION	TF=100.00	TF=100.00	PLANNING, DEVELOPMENT & BUILDING SERVICES	4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND MARKED WITH A 50mm X 100mm WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED RED.	ROADWAY SPECIFICATIONS
JOINT USE TRENCH — HYDRO/BELL/CABLE TV JOINT USE TRENCH — HYDRO/BELL/CABLE TV/GAS	——— HBC ————	——— НВС ———	BASEMENT FLOOR ELEVATION	BF=100.00	BF=100.00	DEVELOPMENT DEPARTMENT, CITY OF OTTAWA	5. SEWER BEDDING AS PER CITY STANDARD S6 & S7. GRANULAR 'A' BEDDING TO BE INCREASED TO 300mm WHERE SEWERS	 ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
JOINT USE TRENCH - BELL/CABLE TV/GAS	BCG		PARKING LEVEL ELEVATION	P1=100.00	P1=100.00		ARE BELOW THE GROUNDWATER TABLE. 6. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021. SANITARY MANHOLE FRAME AND COVERS SHALL	 CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SCI.1.1(BARRIER CURB) AND SC1.3 (MOUNTABLE CURB), AS NOTED. PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS.
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS	2H,2C,2B	2H,2C,2B	UNDERSIDE OF FOOTING ELEVATION	USF=100.00	USF=100.00	APPROVED	BE AS PER CITY OF OTTAWA STD. S24 AND S25. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.	3. DEPRESSED SIDEWALK REINSTATEMENT SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL DRAWING SC.7.1.
STREETLIGHT (c/w GROUND ROD WHERE REQUIRED)	X——⊗ δ re	z	ORIGINAL GROUND ELEVATION TOP OF ROCK ELEVATION	0G=100.00 T/R0CK=100.00	OG=100.00 T/ROCK=100.00	By Andrew McCreight at 2:17 pm, Jun 06, 2024	INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND VIEWED	4. ROAD SUBDRAINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R1. SUBDRAINS SHALL BE 6m IN LENGTH AT
STREETLIGHT DISCONNECT HYDRO TRANSFORMER		<u>sd</u>	CONTOUR LINES	100.00	•		BY THE ENGINEER. 8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING	CATCHBASINS. SUBDRAINS SHALL BE INSTALLED BOTH SIDES AT LOWPOINTS AND ON THE HIGH SIDE AT FLOWBY CATCHBASINS.
HYDRO SWITCHING KIOSK			SLOPE AND DIRECTION OF FLOW	2.0%	₹2.0%		SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.	5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
HYDRO MANHOLE	$_{lack}$	$lue{m{\Theta}}$	OVERLAND FLOW ROUTE ONSITE				9. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1. 10. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013.	6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
HYDRO METER	(•	OVERLAND FLOW ROUTE EXTERNAL				DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.	7. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
UTILITY POLE AND GUY WIRE CABLE PEDESTAL	(—OUP [€]	(—oup					11. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA STANDARD DRAWING S14.1.	8. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
BELL PEDESTAL	B	B	STORMWATER MANAGEMENT				12. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.	9. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.
BELL MANHOLE	B	$\stackrel{-}{\mathbb{B}}$	STORM DRAINAGE AREA BOUNDARY STORM DRAINAGE AREA NUMBER				13. MINIMUM SOIL COVER TO BE 2.5m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST	10. PAVEMENT STRUCTURE: REFER TO LEGEND.
BELL GROUND LEVEL BOX	GLB 	GLB	STORM DRAINAGE AREA NUMBER STORM DRAINAGE AREA IN HECTARES RUN-OFF COEFFICENT	0.06	0.06 0.75		COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER CITY STANDARD S35. 14. CCTV OF THE EXISTING SANITARY LATERAL FOR 268 CARRUTHERS AVE IS REQUIRED TO ACCESS EXISTING CONDITION.	GENERAL NOTES FOR GRADING
ENDWALL COMMUNITY MAILBOX	СМВ	<u>CMB</u>					14. CCTV OF THE EXISTING SANITARY LATERAL FOR 268 CARRUTHERS AVE IS REQUIRED TO ACCESS EXISTING CONDITION. THE CCTV REPORT WILL BE SUBMITTED TO THE ENGINEER FOR REVIEW TO DETERMINE IF LATERAL IS ACCEPTABLE FOR RE-USE OR WILL REQUIRE REPLACEMENT TO THE SEWER MAIN.	 IT SHALL BE THE BUILDER'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANSFORMERS, AND UTILITY PEDESTALS, ETC., MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS.
GAS VALVE	⊗ GV	▼ ⊗ GV					STORM SEWER NOTES	2. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
GAS METER	\$	\&					ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND	3. CONTRACTOR TO ADJUST EXISTING CATCH BASINS, MANHOLES, FIRE HYDRANTS, VALVE CHAMBERS AND VALVE BOXES TO FINAL GRADE AS REQUIRED.
TRAFFIC MANHOLE TRAFFIC HAND HOLE	○ TMH	○ TMH					SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).	4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATIONS OF ADJACENT BUILDINGS
TRAFFIC HAND HOLE TRAFFIC JOINT USE POLE	□ HH	□ HH ⊚ JUP	MISCELLANEOUS		PAVEMENT COMPOSITION NOTE LIGHT DUTY PAVEMENT STRUCTURE	SS .	 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 CSA A257.L (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT). 	DURING EXCAVATION AND CONSTRUCTION PERIOD. 5. GRADING IN GRASSED AREAS WILL BE BETWEEN 2% TO 7%. GRADES IN EXCESS OF 7% WILL REQUIRE A MAXIMUM 3:1
TRAFFIC MAST ARM	=O= MAF	-O= MAF	REMOVED RELOCATED	X X X REM	(PARKING STALLS) 65mm HL3 (PG58–34)		3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE	TERRACING.
TRAFFIC CONDUIT	тт	тт	ADJUSTED	ADJ	150mm GRANULAR 'A' 300mm GRANULAR 'B' TYPE II (OVERBURDE OR 200mm GRANULAR 'B' TYPE II (BEDROC		SPECIFIED.	 NO EXCESS DRAINAGE, DURING OR AFTER CONSTRUCTION, TO BE DIRECTED TOWARDS NEIGHBORING PROPERTIES. EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.
			LIGHT DUTY PAVEMENT REFER TO NOTES FOR COMPOSITION) had	·		4. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. RIGID STORM PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSD 802.030. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO	8. ENSURE POSITIVE DRAINAGE AWAY FROM FOUNDATION.
			HEAVY DUTY PAVEMENT		HEAVY DUTY PAVEMENT STRUCTURE (ROADWAY)		A MINIMUM OF 95% SPMDD.	9. NO ALTERATION TO EXISTING GRADES ON THE PROPERTY LINES.
GEOTECHNICAL			REFER TO NOTES FOR COMPOSITION ROAD REINSTATEMENT AS PER CITY STANDARI)	40mm SP12.5mm ASPHALT (PG58-34) 50mm SP19.0mm ASPHALT (PG58-34) 150mm GRANULAR 'A'		 SEWER BEDDING AS PER CITY STANDARD S6 & S7. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50mm X IOOmm WOODEN MARKER 	10. UNDERSIDE OF FOOTING TO BE MINIMUM 1.5m BELOW FINISHED GRADE OR INSULATION TO BE PROVIDED. TOP OF FOUNDATION TO BE MAINTAINED 0.15m ABOVE FINISHED GRADE.
BOREHOLE MONITORING WELL	⊕ BH	♦ ♦ BH	R10 SIDEWALK REINSTATEMENT AS PER CITY		400mm GRANULAR 'A' 400mm GRANULAR 'B' TYPE II (OVERBURDE OR 300mm GRANULAR 'B' TYPE II (BEDROC		EXTENDING FROM THE INVERT TO 1.0M ABOVE GRADE PAINTED GREEN.	
MONITORING WELL	∰ MW (<u>6</u> 4.76)_	GROUND ELEVATION	STANDARD SC4			•	7. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1. 8. WITHIN THE FROST ZONE. THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE	
	[63.46] {63.18}	BEDROCK ELEVATION AUGER REFUSAL ELEVATION					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	
<u>CAUTION</u> <u>BEN</u>	CHMARKING NOTES FOR SI	<u>IE</u>		6	REVISED AS PER CITY COMMENTS 08/01/24	AC BMT SCALE DESIGNED BY	REVIEWED BY DEVELOPER McCORMICK PARK DEVELOPMENTS	SAB CARRUTHERS AVENUE DEVELOPMENT PROJECT No. OTT-22014656-A
THE POSITION OF ALL POLE LINES. 1. R	REFER TO LEGAL SURVEY PLAN PREPARI EYING INC. DATED APRIL 22,2022. ELEVATIONS SHOWN ARE GEODETIC AND	ED BY FARLEY, SMITH & DENIS		5	ISSUED FOR SPC RESPONSE 15/12/23		1600 LAPERRIERE AVENUE, SUITE 205	BMT 266—268 CARRUTHERS FMW/FSD
AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND 3. E	-1928 :1978. FLEVATIONS DERIVED FROM MONUMENT N	IO. 01919680092 HAVING A		4	REVISED AS PER NEW SITE PLAN 17/11/23		OTTAWA, ON. K1M 2H9 613.421.1515	CHECKED BMT OTTAWA, ONTARIO. DATE JUNE 2022
POSITION OF SUCH UTILITIES AND COLON	SHED ELEVATION OF 84.092 METRES. LO NNADE ROAD, ± 15.3 METRES EAST OF TALES DRIVE.	JUATION: ±340 METRES NORTH OF THE EASTERLY FOG LINE ON PRINCE		3	REVISED AS PER CITY COMMENTS 29/06/23 REVISED AS PER CITY COMMENTS 21/03/23	NORTH	exp Services Inc.	CAD TITLE DRAWING No. SAB
STARTING WORK, DETERMINE THE EXACT 4. 1	T IS THE RESPONSIBILITY OF THE USER		7 RE-ISSUED FOR SITE PLAN	4 /04 /24 AIX I DNT 4	ICCUIED FOR CITE PLAN APPROVAL 90 /44 /90	CAD DUT	t: +1,613,688,1899 f: +1,613,225,7330 2650 Queensview Drive, Unit 100 Ottawa, ON K2B 8H6 Canada	PROJECT MANAGER BMT NOTES AND LEGEND SHEET CO01

STRUCTURES AND ASSUME ALL LIABILITY FOR

OCATION OF ALL SUCH UTILITIES AND

AMAGE TO THEM.

THAT THE BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S

RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

RE-ISSUED FOR SITE PLAN

APPROVAL

REVISION DESCRIPTION

| 04/04/24 | AKJ | BM1

DATE BY APP

ISSUED FOR SITE PLAN APPROVAL | 09/11/22 | SAB | BM

DATE

REVISION DESCRIPTION

18875

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

BMT SAB Ottawa, ON K2B 8H6 Canada BMT • BUILDINGS • EARTH & ENVIRONMENT • ENERGY •