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	N.T.C. (III P	<u>\</u>
MH 124 =63.37 =61.05 =60.55 =60.55 T/G=63.41 T/G=63.41 T/G=63.41 T/WV.SW=60.55 TEE	LEGEND SITE BOUNDARY PROPOSED STORM SEWER AND DIRECTION OF FLOW PROPOSED SANITARY SEWER AND DIRECTION OF FLOW SAN MH PROPOSED SANITARY SEWER AND DIRECTION OF FLOW SAN MH PROPOSED WATERMAIN V&VB PROPOSED VALVE AND VALVE BOX PROPOSED WATER METER LOCATION EXISTIN EXISTIN	NG STC NG SAN NG WA NG VAL NG FIRI
SANITARY AND STORM SERVICE TO BE ABANDONED	Image: Book of the second s	VG TOP VG UTI
AS PER CITY OF OTTAWA S11.4 WATER SERVICES TO BE BLANKED AT MAIN BY CITY FORCES	Y PROPOSED SIAMESE CONNECTION NAP EXISTIN AD 1 O PROPOSED AREA DRAIN GLB EXISTIN = = = PROPOSED LIMITS OF UNDERGROUND PARKING GLB EXISTIN PROPOSED BARRIER CURB PROPOSED BARRIER CURB EXISTIN EXISTIN	V <i>G BEL</i> NG UNL
EXISTING CMB TO BE RE-LOCATED REINSTATEMENT AS PER CITY OF OTTAWA SPECIFICATION R10	DC PROPOSED DEPRESSED CURB EXISTIN PROPOSED DEPRESSED CMB EXISTIN MOUNTABLE CURB (50mm) CMB EXISTIN H PROPOSED UNDERGROUND HYDRO EXISTIN	VG CO
PROPOSED DEPRESSED MOUNTABLE CURB (50mm) + 4 4 m - 250	PROPOSED RETAINING WALL PROPOSED RETAINING WALL AND ACOUSTIC FENCE PROPOSED ACOUSTIC FENCE PROPOSED LIMITS OF CONCRETE PROPOSED	
	PROPOSED LIMITS OF STONEDUST PAVING HMH	
eschâtele DC 5mm0 STM @ 0.	GENERAL NOTES:	
AG AG AG AG AG AG AG AG AG AG	 2) DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CON RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING. 3) OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION. 4) BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMMENDENSIVE, ALL RISK AND OPERATIONAL LIA \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED. 5) RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWAN BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER. 6) REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED 7) ALL ELEVATIONS ARE GEODETIC. 8) REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIO 9) REFER TO SERVICING DESIGN BRIEF PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD. 10) SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (I 11) PROVIDE LINE/PARKING PAINTING. 12) CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY DESIC 13) REFER TO GEOTECHNICAL REPORT (PG5383-1, DATED AUGUST 11, 2020) PREPARED BY PATERSON GROUP FOR SUBSURFAC RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW O EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL. 14) ALL MATERIALS AND CONSTRUCTION METHOPS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPE PROVINCIAL STANDARDS AND SPECIFICATIONS. ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS WILL APPLY WHER AVAILABLE.<!--</th--><th>ABILITY NCES 1 D BY E D LAND DNS. (R10). (R10). GN GR CE COI DN-SITE PECIFIC</th>	ABILITY NCES 1 D BY E D LAND DNS. (R10). (R10). GN GR CE COI DN-SITE PECIFIC
AL AL AL ERNAL ERNAL ER TO O O U U O O O O O O O O O O O O O O O	 1) SPECIFICATIONS: <u>ITEM</u> SEWER SERVICE CONNECTION - RIGID PIPE S11, S11.1 CITY OF OTTAWA SEWER SERVICE ABANDONMENT SEWER SERVICE ABANDONMENT SEWER TRENCH - BEDDING (GRANULAR A) COVER (GRANULAR A) COVER (GRANULAR A) COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm) STORM SEWER PVC DR 35 SANITARY SEWER PVC DR 35 WASTEWATER SAMPLING/INSPECTION CHAMBER S18.1 CITY OF OTTAWA 2) INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER FROM STORM AND 2.5m FOR SANITARY SEWER WITH 50r 	mmX1:
TAILS)	 PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION. 3) SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%. 4) PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED. 5) FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIV CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED. 6) THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF A TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE C 	VE SEA
	 SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS. 7) FULL PORT BACKWATER VALVES ARE REQUIRED ON THE SANITARY SERVICES. INSTALLED AS PER THE MANUFACTURERS RE BACKWATER VALVE IS REQUIRED ON THE STORM SERVICES / FOUNDATION DRAINS FOR EACH BUILDING; INSTALLED AS PER 8) CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS/LATERALS. 9) REINSTATE ALL EXISTING PAVEMENT, CURB AND BOULEVARDS AS PER CITY OF OTTAWA R10. 	I THE F ECOMN R STD.
EX.SANMH 133 TEE Image: Constraint of the second sec	OPERATION. 11) MONITORING TEST PORTS FOR BUILDING SERVICES TO BE INSTALLED IN PARKING GARAGE.	
EX.CBMH T/G=63.98± EX.STIMMH 128 T/G=63.83 INV.W=61.18 INV.E=61.61 INV.SE=60.00 EX.CB T/G=63.81± INV.SE=60.00 EX.CB	1) SPECIFICATIONS: SPEC. No. REFERENCE WATERMAIN TRENCHING W17 CITY OF OTTAWA THERMAL INSULATION IN SHALLOW TRENCHES W22 CITY OF OTTAWA VALVE BOX ASSEMBLY W24 CITY OF OTTAWA CONNECTION DETAIL FROM EXISTING TO NEW WM W25.1 CITY OF OTTAWA WATERMAIN CROSSING BELOW SEWER W25 CITY OF OTTAWA WATERMAIN CROSSING OVER SEWER W25.2 CITY OF OTTAWA WATERMAIN (150mmØ) PVC DR 18 WATERMAIN (50mmØ) TYPE 'K' COPPER THERMAL INSULATED AT OPEN STRUCTURE W23 CITY OF OTTAWA WATER SERVICE INSTALATION AT SEWER W38 CITY OF OTTAWA CROSSING. 2) SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.	T THE
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 3) WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. OTHERWISE THERMAL INSULAT W21,W22, AND W23. 4) PROVIDE MINIMUM 0.50m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WHEN WATERMAIN IS BELOW AND MIN WATERMAIN IS ABOVE. 5) WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED 6) ALL EXISTING WATER SERVICES TO BE BLANKED AT MAIN BY CITY FORCES. EXCAVATION AND REINSTATEMENT BY CONTRACT 7) VALVES TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COM OBTAINED FROM THE CITY OF OTTAWA (CoO). CoA FORCES TO COMPLETE WATERMAIN CONNECTIONS. EXCAVATION, BACKFI COMPLETED BY CONTRACTOR 8) WATERMAINS TO BE INTERCONNECTED FOR REDUNDANCY. 	INIMUN D. TOR. MPLETE
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			OBTAINED FROM THE C COMPLETED BY CONTR	ITY OF OTTAWA (CoO). CoA FORCES TO COM	NNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL IPLETE WATERMAIN CONNECTIONS. EXCAVATION, BACKFILLING AND RE
	DESIGN	FOR REVIE	,	ERCONNECTED FOR REDUNDANCT.	LOCATION
	SAZ CHECKED		PROFESSIONAL	ΝΟΛΤΞΟΗ	CITY OF OTTAWA GREYSTONE VILLAGE PHASE 3
	MSP DRAWN MTM		S.A.N. ZORGEL	Engineers, Planners & Landscape Architects Suite 200, 240 Michael Cowpland Drive	DRAWING NAME
10	CHECKED SAZ APPROVED		100191487 Auy 19/22 POLINCE OF ONTRE	Ottawa, Ontario, Canada K2M 1P6 Telephone (613) 254-9643 Facsimile (613) 254-5867 Website www.novatech-eng.com	GENERAL PLAN OF SERVICING
	MSP				



