60	7154024-200000-41-D01-00	11	10	9	8		7	6	5	4	3	2		1	
	GENERAL: 1. PROJECT COORDINATES ARE	SET IN NAD83 (CSRS), MTM ZONE 9 PROJI	ECTION.	THAN 1H:1V (HORIZONT) - NATIVE SOILS BELOW GF	AL: VERTICAL); AND, ROUNDWATER - TYPE 4 SOIL SLOPED) FROM THE BOTTOM OF TH	▼ HE EXCAVATION NO STEEPER	ENGINEED AND T	DF COMPACTION EQUIPMENT SHALL BE E CONTINUING SATISFACTORY PERFORMA	SUBJECT TO THE APPROVAL OF THE GEOTECHANCE.	NICAL	•	ı		
	3. ALL ELEVATIONS SHOWN ARE		OTHERWISE. PROJECT STANDARDS, SPECIFICATIONS, THE		NS SHALL BE REVIEWED AND APPROPES OF OPEN CUT EXCAVATIONS I			PROVIDED IN THE	ROSION AND SEDIMENT CONTROL PLANS	T LOCATIONS SHALL FOLLOW THE RECOMMENDA S. THE CONTRACTOR SHALL EXERCISE EVERY T SEGREGATION OF PARTICLE SIZES. STOCKPILED	TIONS				
	LATEST GEOTECHNICAL REPO 5. IT IS THE CONTRACTOR'S RES	ORT AND LOCAL LAWS AND REGULATIONS SPONSIBILITY TO CHECK AND VERIFY ALL	,	OHSA PURPOSES SHALL 10. WHERE SIDE SLOPES OF	BE CONFIRMED AT THE TIME THE EXECUTED TO B EXCAVATIONS ARE REQUIRED TO B EW AND RECOMMENDATIONS OF THE	CAVATION IS OPEN. E STEEPENED, SUPPORT OF	F EXCAVATED WALLS MAY BE	MATERIAL SHALL I 16. GRANULAR FILL I	IEET THE GRADATION REQUIREMENTS ABO ATERIALS SHALL NOT BE CONTAMINATED OME CONTAMINATED SHALL BE REMOVED	D BY MIXING WITH OTHER MATERIALS. FILL MATE	RIALS				
	RECORD. 6. THE CONTRACTOR SHALL ID	ENTIFY AND MARK AND PROTECT ALL MC	DNUMENTS, U/G UTILITIES INCLUDING WATER, DNDUITS PRIOR TO COMMENCEMENT OF ANY	11. AT ALL TIMES DURING C	CONSTRUCTION, THE CONTRACTOR SLOPE IS NOT IMPAIRED. ENGINEER'S VAY RELIEVE THE CONTRACTOR OF I	SHALL ADOPT EXCAVATIONS ACCEPTANCE OF EXCAVA	N PROCEDURES SUCH THAT ATION PROCEDURES AND/OF	PROVIDE POSITIVI FOR SUBGRADE F	DRAINAGE FOR SURFACE WATER DURIN OST PROTECTION MAY BE REQUIRED IF FI	CTED FROM CONSTRUCTION TRAFFIC AND SLOPING CONSTRUCTION PERIOD. ADDITIONAL SOIL CONSTRUCTED ARE LEFT EXPOSED DURING					
		G TO BE COMPLETED BY OTHERS.	N REPORT "TRAIL ROAD BATTERY ENERGY	OF ALL SLOPES EXCAVAT 12. IT IS THE RESPONSIBILITY ALL TIMES.	TED. Y OF THE CONTRACTOR TO KEEP EX	(POSED FOUNDATION SOIL	S AND EXCAVATIONS DRY AT	PERIODS OF FREEZ FOUNDATION CONSIDER							
	STORAGE SYSTEM (BESS) PF Rev.A, DATED FEBRUARY 3, 20	RELIMINARY GEOTECHNICAL INVESTIGATIO 025.	DN",DOCUMENT #H375035-0000-2A0-066-0001,	13. SURFACE WATER SHOU ACCORDANCE WITH THE	LD BE DIRECTED FROM ANY OPEN OHSA AND REGULATIONS FOR CON OBE CONTROLLED BY CONVENTION	ISTRUCTION PROJECTS.		BACKFILLED WITH		ON ELEMENTS, SUCH AS THE SUBSTATION, SHOU TERIAL SUCH AS GRANULAR B TYPE I TO PROTECT	LD BE				
G	SURVEY FILE "241437 TRAIL R	OAD BESS MTM9-REVO.DWG" BY TULLOCH		GIVEN TO REDUCING THI BASE.	E LENGTH OF AN OPEN EXCAVATION	N AT ONE TIME, OR THE US	SE OF A TREMIE PLUG AT THE	2. TO MINIMIZE DIFFI CONCRETE ABUTS GRADE UP TO THE	, A FROST TAPER SHALL BE PLACED BY	RES WHERE HARD SURFACING LIKE ASPHALT OR SLOPING THE BACKFILL FROM 1.8 M BELOW FIN H:1V. BACKFILL SHALL BE PLACED IN 200 MM LIFT					G
	CLEARING AND GRUBBING 1. THE WORK TO BE DONE UNDER THIS ITEM COMPRISES THE SUPPLY OF ALL LABOUR, PLANT AND MATERIAL, AND THE PERFORMANCE OF ALL WORK NECESSARY FOR CLEARING AND GRUBBING THE CONSTRUCTION LIMIT AS SHOWN ON THE DRAWINGS.			15. DISPOSAL AREAS SHALL BE WELL DRAINED AND LEFT IN A STABLE AND SAFE CONDITION, TO THE ENGINEER'S SATISFACTION, AT NO ADDITIONAL COST TO OWNER. THE SURFACES OF DISPOSAL AREAS SHALL BE TRIMMED TO LINES AND GRADES SATISFACTORY TO THE ENGINEER.				COMPACTED TO 9 LANDSCAPED ARE AWAY FROM THE 9	AS SHOULD CONSIST OF LOW PERMEAE TRUCTURE.	ON EQUIPMENT. THE UPPER 0.3 M OF BACKFILL IN BLE SOILS AND THE EXTERIOR GRADE SHOULD S					
	2. CLEARING AND GRUBBING S DEAD, DEBRIS AND ALL OTHE	ER PERISHABLE MATERIALS, INCLUDING FA	NG OF ALL TREES, HEDGES SHRUBS ALIVE OR ALLEN TREES AND LOGS WHICH MAY BE ION LIMIT. ALL TREES, HEDGES, AND SHRUBS		PREPARATION SHALL BE COMPLET		THE GEOTECHNICAL REPORT	HATCH AND UNDE	R THE SUPERVISION AND APPROVAL OF TH	NCE WITH THE GEOTECHNICAL RECOMMENDATIO HE GEOTECHNICAL ENGINEER. LAYER OF GRANULAR A BASE OR A CRUSHED	NS BY				
	SHALL BE CUT OFF AT THE NA 3. THE CONTRACTOR SHALL GIV	ATURAL GROUND SURFACE IN ALL AREAS	OF THE CONSTRUCTION EASEMENT. OTICE OF INTENT TO CLEAR AREAS. THE LIMITS	2. ENGINEERED FILL SHALL HAS BEEN REVIEWED	VISION AND APPROVAL OF THE GEOT NOT BE PLACED ON ANY PART OF AND APPROVED BY THE GEOTEC E PERFORMED IMMEDIATELY PRIOR T	AN EARTH FOUNDATION SU CHNICAL ENGINEER. FINAL		5. UNDER SLAB FILL		F 50 MM OVERLAYING GRANULAR B TYPE II SUBBAS 1 THICK LOOSE LIFTS AND COMPACTED TO 98% S					
F	ADHERED TO. 4. REMOVE ALL CLEARED MATE		ACCORDING TO LOCAL REGULATIONS, CLIENT	3. SUBSEQUENT TO THE RE ROLLED WITH A SUITABLE	EMOVAL OF OVERBURDEN, THE EXPO E EQUIPMENT, IN CONJUNCTION WIT ING THE PROOF-ROLLING ACTIVITIE	OSED SUBGRADE SURFACE TH INSPECTION BY A GEOTE	ECHNICAL ENGINEER. LOOSE	FROM THE GROUP OPSD 3090.101. A	ID SURFACE NEAREST TO THE OUTSIDE T TERNATIVELY, RIGID STYROFOAM INSULA	UM 1.8 M OF SOIL COVER MEASURED PERPENDION OF THE FOOTING FOR FROST PROTECTION A ATION MAY USED TO COMPENSATE FOR THE LAG	S PER				F
	STRIPPING, STOCKPILING AND DISP	POSING OF TOPSOIL		ENGINEERED FILLS UNDE 4. THE CONTRACTOR SHAL	ER THE SUPERVISION AND DIRECTION LL NOT PLACE FILL MATERIAL ON FO RATION FROM THE GEOTECHNICAL E	N OF THE GEOTECHNICAL E UNDATION SURFACES WITH	ENGINEER.	ROADWAY SURFACE	HE RECOMMENDATIONS OUTLINED IN THE	SHALL BE COMPLETED IN ACCORDANCE WITH					
		FOR THE STRIPPING AND STOCKPILING FO	PLY OF ALL LABOUR, AND THE PERFORMANCE OR SUBSEQUENT REUSE OR DISPOSAL FROM	5. IF ANY AREA PREVIOUS CONSTRUCTION ACTIVIT	SLY ACCEPTED SHOULD BECOME FIES OF THE GENERAL CONTRAC ED MATERIALS SHALL BE REMOVE	SOFTENED OR CONTAINT TOR AND SUBCONTRACTOR	ORS WITH OBJECTIONABLE	GEOTECHNICAL GEOTECHNICAL	RECOMMENDATIONS BY HATCH AND UNDE ENGINEER AND SHALL FOLLOW THE RECO	ER THE SUPERVISION AND APPROVAL OF THE	RIALS				
	REMOVAL SHALL NOT BEGIN		FROM THE ENGINEER OF RECORD. TOPSOIL NTROL (ESC) MEASURES ARE IMPLEMENTED. S TO TEMPORARY TOPSOIL STOCKPILES.	SATISFACTION OF THE EI 6. ALL NECESSARY PRECA	NGINEER, AT NO ADDITIONAL COST TUTIONS SHALL BE TAKEN TO PRESTAL BELOW AND BEYOND THE LIMITS (TO OWNER. ERVE IN A SOUND, UNDIST		OPTIMUM MOISTU 3. FILL PLACEMENT	RE CONTENT.	ALL BE COMPLETED UNDER THE SUPERVISION C					
E	BE MAINTAINED AT ALL TIMES	S IN A CONDITION ACCEPTABLE TO THE O	OF THE WORK UNDER THIS ITEM AND SHALL WNER OR OWNER'S REPRESENTATIVE AND/OR ENTLY FOR STABILITY. STOCKPILED MATERIAL	ENGINEERED FILL			ETED IN ACCORDANCE WITH	4. ROADWAY SURFA CROWNED AT THE	CES SHALL BE SLOPED AT 2% OR GREATE	ER TO PROMOTE RUNOFF. THE SUBGRADE SHOU AND 5% TOWARDS THE ROADWAY PERIMETER, A					E
	5. STRIPPED TOPSOIL MATERIAL	E OF NATURAL EXISTING DRAINAGE COUR LIS NOT SUITABLE FOR RE-USE AND SHAL GULATIONS AND BYLAWS AT AN APPROVED	L BE DISPOSED OF BY THE CONTRACTOR OFF	THE GEOTECHNICAL REGEOTECHNICAL ENGINE	RIAL, PLACEMENT, AND QUALITY CO ECOMMENDATIONS BY HATCH AND ER.) FILL MATERIALS SHALL BE PLACED) UNDER THE SUPERVISIO	ON AND APPROVAL OF THE	5. A LAYER OF GEC ABOVE EXPOSED	SUBGRADE SURFACED IF EXCESSIVE RU	300R OR APPROVED EQUIVALENT) SHALL BE PI					
	UNDERGROUND UTILITIES			AND AS REQUIRED BY TH 3. THE CONTRACTOR SHAI	HE ENGINEER AND GEOTECHNICAL E LL CARRY OUT QUALITY CONTROL OD OF PLACING AND COMPACTIN	NGINEER. TESTING DURING CONSTR	RUCTION. THE CONTRACTOR	TRENCH BACKFILL	RIAL FOR FLECTRICAL UTILITIES SHALL BE	E SAND FILL WITH THE FOLLOWING PROPERTIES.					—
	LOCATE DATA PRIOR TO COM	OVIDED FOR REFERENCE ONLY. THE CONT IMENCING ANY EARTHWORKS. HALL BE VERIFIED AND CONFIRMED ON SIT	RACTOR IS REQUIRED TO OBTAIN THEIR OWN TE BY THE CONTRACTOR.	DETERMINED BY TESTIN FULLY RESPONSIBLE FOR	IG AND AS ACCEPTED BY THE GEORE R THE QUALITY OF WORK IN ACCORD ARE CONSIDERED TO BE ACCEPTAB	OTECHNICAL ENGINEER. TI DANCE WITH THESE SPECIFI	HE CONTRACTOR SHALL BE ICATIONS.	THERMALLY ADAP MOISTURE CONTE	ED SAND FILL SHALL HAVE A MAXIMUM TH NT EQUAL OR LOWER THAN 2%, AS NOTED	HERMAL RESISTIVITY OF 0.75 °CM/W (RHO) WITH A O ON THE ELECTRICAL DRAWINGS. FILL TO BE F 200 mm MAX. REFER TO ELECTRICAL DRAWING	S FOR				
	PERMISSION FROM THE UTILI	TY OWNER.	SERVICE BE INTERRUPTED WITHOUT WRITTEN ACCORDANCE WITH THE DRAWINGS AND	ARE FREE OF COBBLES, MATERIAL (I.E., LARGER T	BOULDERS, TOPSOIL, ORGANIC MATTHAN 150 MM IN SIZE) SHOULD BE RESIDERED SUSCEPTIBLE TO OVER-W	TTER OR OTHER DELETERI EMOVED FOR RE-USE OF NA	OUS MATERIALS. OVERSIZED ATIVE SOILS.	ADDITIONAL DETA 2. BEDDING AND CO	ER MATERIAL FOR DRAINAGE PIPES AND (CULVERTS SHALL BE GRANULAR A PLACED AND COMMENDED BY THE GEOTECHNICAL ENGINEER. I	REFER				D
	SPECIFICATIONS OF EACH COORDINATED WITH PRIVATE		HERWISE SPECIFIED. THE WORK SHALL BE	GRADING ACTIVITIES ARI SEASONS OR ANY PERIO	E RECOMMENDED TO NOT BE CAR DS OF INCLEMENT WEATHER. FOR ENGINEERED FILL PURPOSES	RIED OUT DURING LATE FA	ALL, WINTER, EARLY SPRING	TO CIVIL PLANS FO		ED IN ACCORDANCE WITH THE GEOTECH ON AND APPROVAL OF THE GEOTECHNICAL ENGIN					
			SE COMPLETED IN ACCORDANCE WITH THE HE SUPERVISION AND APPROVAL OF THE	MATERIALS SHALL CON	ER AT ITS SOURCE PRIOR TO IMPOI SIST OF NATURALLY OCCURRING ON-PLASTIC, FREE FROM ROOTS AND	(AS SPECIFIED HERE), OR	CRUSHED, CLEAN, SOUND	BY THE GEOTECH		SOILS AND ENGINEERED FILL, OR AS RECOMMEN	DED				
		E TRANSPORTING AND STOCKPILING MA	ATERIALS WHICH, IN THE OPINION OF THE	OPINION OF THE GEOTE	IC MATTER, FLAT OR ELONGATED CHNICAL ENGINEER ARE UNACCEPT. FRIALS SHALL BE ONE OF THE FOL	ABLE, WILL BE REJECTED.	·	1. INSULATION STON	,	TH NO GREATER THAN 2% CONTENT HAVING SIZE 'E GREATER THAN 18 mm, WITH A MINIMUM RESIS					
		METHODS, SCHEDULE AND SEQUENCE (SUBMIT FOR REVIEW BY THE GEOTECHNICAL DF OPERATIONS TO BE FOLLOWING FOR THE	GEOTECHNICAL ENGINEI a. GRANULAR A (OPSS.N b. GRANULAR B TYPE I (0	MUNI 1010)				SHALL CONFIRM RESISTIVITY PROPERTIE	ES EVALUATED WITH ASTM G57 TEST "STANDARD ING THE WENNER FOUR-ELECTRODE METHOD"	TEST				
C		ECHNICAL ENGINEER PRIOR TO ENGI	CUT/FILL SLOPES SHALL BE REVIEWED AND NEERED FILL MATERIAL PLACEMENT AND	c. GRANULAR B TYPE II (ANY MATERIAL USED AS THE GEOTECHNICAL ENG	ENGINEERED FILL AND/OR GENERAL	_ BACKFILL SHOULD BE RE\	VIEWED AND APPROVED BY		SE NOTED, THE CONTRACTOR SHALL INST	TALL GEOMEMBRANES ACCORDING TO THE SUPP					C
	UNLESS OTHERWISE REQUIR UNSUITABLE MATERIAL TO E	ED, EXCAVATION SHALL BE THE MINIMUM	E MADE BY THE GEOTECHNICAL ENGINEER. REQUIRED TO REMOVE ORGANIC AND OTHER ON SOILS CONSISTING OF NATIVE SILTY SAND	AVOID SEGREGATION OF 9. PLACEMENT OF FILL MA	G OF ENGINEERED FILL MATERIALS SESIZED AND TO OBTAIN A HOMOGENTERIALS SHALL BE DIRECTED AT OB	IEOUS MASS. TAINING A STABLE AND HC	DMOGENEOUS FILL WHICH IS	DIFFERENT STRUC	TURES, SHALL MEET THE SUPPLIER REQUI						
	EXCAVATIONS SHOULD BE RE	EMOVED AND REPLACED WITH COMPACTE	MATERIALS ENCOUNTERED AT THE BASE OF ED ENGINEERED FILLS UNDER THE DIRECTION	REQUIREMENTS OF THES	E MAY BE PLACED BETWEEN ENGINE			ACCORDING TO T	SE NOTED, THE CONTRACTOR SHALL INS IE SUPPLIER'S RECOMMENDATIONS AND F	STALL GEOTEXTILE WITH OVERLAPS OR SEWED J REQUIREMENTS	OINTS				
	DURING THE PERFORMANG	TH GREATER THAN 1.2 M SHALL BE LEFT U	UNATTENDED OR UNPROTECTED AT ANY TIME S SHALL BE IN ACCORDANCE WITH THE DHSA) AND REVIEWED SITE-SPECIFIC HEALTH	11. UNLESS OTHERWISE STA	ATED, ENGINEERED FILLS SHOULD ACTED TO 98% OF THE STANDARD I U DENSITY TESTING SHOULD BE CAF	PROCTOR MAXIMUM DRY D	DENSITY (SPMDD). FULL-TIME								
В	AND SAFETY PLAN. 8. ALL TEMPORARY EXCAVATION	NS MUST BE CARRIED OUT IN ACCORDANG	CE WITH THE FOLLOWING:	12. ALL ENGINEERED FILL M13. WHERE NECESSARY TO A	ATERIALS SHOULD BE WITHIN ± 2% (ACHIEVE THE SPECIFIED COMPACTIC) ENGINEERED FILL MATERIALS BY A	OF THE MATERIAL'S OPTIMU ON, WATER SHALL BE APPLIE	JM MOISTURE CONTENT. ED OR REMOVED (I.E.,								В
	- NATIVE SOILS ABOVE GROUP	NDWATER - TYPE 3 SOIL SLOPED FROM TH	E BOTTOM OF THE EXCAVATION NO STEEPER	ENGINEER.	DENGINEERED FILE MATERIALS BY A	WOONTS AS ALT HOVED BY	THE GEOTECHNICAL								
		INIG							SEAL:			PROJECT: TITLE:	TRAIL ROAD BESS		
	OD PE	RMITTING										G	BESS SITE ENERAL NOTES		
A 13: 53: 34	FOR USE			APHIC PLAN OF SURVEY M OTTAWA-GATINEAU 2019-20 PACK		PERMITTING PERMITTING	B. THOMAS B. THOMAS	V. BRUNELLE P. Eng. P.E.O No. 100617887 V. BRUNELLE P. Eng. P.E.O No. 100617887	5-07-24 5-05-09	CLIENT:		DESIGNED BY: B. THOMAS PREPARED BY:	DRAFTED BY: A. MENESES CHECKED BY:		
s, ANDRÉS 25-07-23			7154024300000-47-D20-0001-02 TRAIL BES			COMMENTS DESCRIPTION	B. THOMAS VERIFIED BY	V. BRUNELLE P. Eng. P.E.O No. 100617887	5-05-02 DATE	Evol	by Brookfield Renewable	B. THOMAS SCALE: 1:750 DRAWING No.:	V. BRUNELLE P. Eng. F DATE: 2025-04-24		
3Y: MENESES PRINTED: 202	12	11	10	REFERENCE DRAWINGS	8		REVISIONS 7	6	5	4	3	7154024-200000-4	1-D01-0003 01	SIZE: REV. AC 9 10 cm	
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