

TRANQUILITY ESTATES COOPERATIVE LEISURE VILLAGE MHP WATER SYSTEM IMPROVEMENTS PROJECT

C1.1 C1.2 C4.1 C5.1

D1.1 D1.2

OWNER:

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FOR REVIEW NOT FOR CONSTRUCTION

DATE OF PRINT MAY 28 2024 HORIZONS ENGINEERING

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LEGEND

		AIR CONDITIONING UTILITY METER ELECTRIC CABINET TELEPHONE CABINET CONIFEROUS TREE STUMP DECIDUOUS TREE GATE VALVE WSO/KEY VALVE (ASBUILT PLANS) SEWER MANHOLE		UTILITY POLE HYDRANT WELL MONITORING WELL DRAINAGE MANHOLE BOLLARD BORING MAIL BOX SIGN IRON PIPE FOUND IRON ROD FOUND REBAR FOUND GRANITE/STONE BOUND FO	OUND			 APPROXIMA EASEMENT L BUILDING SI EXISTING CO EXISTING CO PROPOSED C PROPOSED C SOIL BOUND SOIL TYPE BROOK WETLAND FI TREELINE OVERHEAD FI 	TE PROPERTY LINE INE BOUNDARY ETBACK ONTOUR - MAJOR INTERV ONTOUR - MINOR INTERV CONTOUR - MAJOR INTER CONTOUR - MINOR INTER MARY	/AL /AL RVAL
	¢	CATCH BASIN LIGHT POLE	ф О	STONE PILE FOUND REBAR TO BE SET/CALCUL/	ATED CORNER		- W	- UNDERGROU	IND WATERLINE	
	M	MANHOLE	۲	5/8-INCH IRON ROD SET W PLASTIC IDENTIFYING CAP	/ITH		- D	 EXISTING DF EXISTING SE 	RAIN EWER LINE	
		GENERAL	NOTI	ΞS	1			PAVEMENT		
1.	NO EXIS	TING MONUMENTS, BOUNDS, (BED WITHOUT FIRST MAKING F	DR BENCHN PROVISION	IARKS SHALL BE						
2.	ALL WO	RK SHALL BE PERFORMED WITI	HIN THE PF	OPERTY OF, AND						
3.	THE COI	NTRACTOR SHALL BE RESPONS	IBLE FOR T	HE DATA COLLECTION	T			1	447	
4.	THE COI	NTRACTOR IS SOLELY RESPONS	SIBLE FOR	Controlling Erosion	Ŷ			ILT CO	447	
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6.	ALL WO Constr Confor <u>Constr</u> New Ha	RKMANSHIP AND MATERIALS IN UCTION OF IMPROVEMENTS SF M TO <u>STANDARD SPECIFICATION</u> (LATEST EDITION), AS MPSHIRE DEPARTMENT OF TRA	NCORPORA PECIFIED C <u>ONS FOR R</u> PUBLISHE ANSPORTAT	TED INTO THE N THIS PLAN SHALL <u>OAD AND BRIDGE</u> D AND AMENDED BY THE TON					43	BC
7.	THE BEA COORDI AMERIC	ARINGS SHOWN HEREON REFERNATE SYSTEM, GRID NORTH. AN VERTICAL DATUM OF 1988	R TO THE N THE VERTIO (NAVD88).	ew Hampshire	H-SNO		298			17
8.	THIS PL ENGINE	AN IS BASED ON A FIELD SURV ERING, INC. IN OCTOBER/NOVE 16 ROBOTIC TOTAL STATIONS.	EY COMPLE MBER OF 2	TED BY HORIZONS 2023 WITH LEICA TS13				OVE ROAD	DA BAR	V BE
9.	APPROX SHOWN VILLAGE NOTES F	IMATE EXISTING UNDERGROUN FROM "AS-BUILT WATER DIST " PROVIDED BY THE CLIENT AS FOR ILLUSTRATION PURPOSES	ND WATER RIBUTION 5 HAND DR ONLY AND	SYSTEM LOCATIONS ARE SYSTEM FOR LEISURE AWN SKETCHES AND IS NOT FIELD VERIFIED.		Y	D COVERO	U U U		3/1
10.	SOIL MA UNITED RESOUR	PPING FROM THE NATIONAL C STATES DEPARTMENT OF AGRI CES CONSERVATION SERVICE (ooperativ Culture (NRCS)	/E SOIL SURVEY, BY USDA) NATURAL	TAX MAP 38 A BAKER, KEI	/LOT 35 TH C.	INEWOC			1 275
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PRO		ASING FOR WATER MAIN REPLA		ND CONNECTIONS USING		TAX MAP 38 GRANT, GA PRISC	<u>8 /LOT 002</u> ARY M &			>
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3.	PLANS. COMPLE	TE NECESSARY TESTING BEFO	RE WATER	MAIN IS PUT INTO	<u>TAX MAP 32 /L</u> REED, WILLIAI	<u>OT 036</u> M A. &	242 ROUTE 27, LLC BK/PG 4602 / 2018	-1	Dat	
4.	INSTALL ROAD A	L. L AND CONNECT ALL WATER SE S PROPOSED WATER MAIN.	RVICES LO	CATED ON SAME SIDE	RHODA RE BRIAN W. R BK/PG 6431/	ED EED /964	Six		OV TAX MA HATC	NP 32 CH, J
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0	15H	30H	60H	120H
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SCALE IN FEET

OLD CART ROAD

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MATCH LINE - SHEET C3.1

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MAY 28 2024

REFUSAL AT DEPTH-NRTD NO REFUSAL TO DEPTH

SEEDING RECOMMENDATIONS

1. GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

2. SEEDBED PREPARATION

- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE AMENDED WITH ORGANIC MATTER AND TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME THOROUGHLY INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

3. ESTABLISHING VEGETATION

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:

-AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT. -NITROGEN (N), 50 LBS., PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT. -PHOSPHATE (P2O5), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT. -POTASH (K₂0), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10).

B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

C. SEEDING GUIDE:

	SEEDING				
USE	MIXTURE (SEE 3D)	DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C	FAIR POOR FAIR	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR FAIR POOR
WATERWAYS, EMERGENCY SPILL- WAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A B	GOOD GOOD	GOOD GOOD	GOOD FAIR	FAIR POOR

D. SEEDING RATES:

	MIXTURE	Pounds Per Acre	POUNDS PER 1,000 SQ. FT.
A	TALL FESCUE CREEPING RED FESCUE REDTOP	20 20 2	0.45 0.45 0.05
	IOTAL:	42	0.95
В	TALL FESCUE	15	0.35
	CREEPING RED FESCUE	10	0.25
	CROWN VETCH OR	15 OR	0.35 OR
	FLATPEA	30	0.75
	TOTAL:	40 OR 55	0.95 OR 1.35
С	TALL FESCUE	20	0.45
	FLATPEA	30	0.75
	TOTAL:	50	1.20

E. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO SEPTEMBER 15. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

F. TEMPORARY SEEDING RATES:

SPECIES	Pounds Per Acre	POUNDS PER 1,000 SQ. FT.	REMARKS
WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40	1.0	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE NOT IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30	0.7	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1ST AND JUNE 1ST AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

4. MULCH A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING

B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING.

5. MAINTENANCE TO ESTABLISH A STAND

A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED

- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

EROSION CONTROL GENERAL NOTES

- A. KEEP SITE MODIFICATION TO A MINIMUM 1. CONSIDER FITTING THE BUILDINGS AND STREETS TO THE NATURAL TOPOGRAPHY. THIS REDUCES THE NEED FOR CUTS AND FILLS. AVOID EXTENSIVE GRADING THAT WOULD ALTER DRAINAGE PATTERNS OR CREATE VERY STEEP SLOPES.
- 2. EXPOSE AREAS OF BARE SOIL TO EROSIVE ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
- 3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
- 4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.
- 5.0 AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.
- B. MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES
- 1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.
- 2. PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.
- 3. USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.
- SAFE DISPOSAL.
- 5. USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.
- INSTALLATION OF EROSION CONTROL MATTING SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN 6. PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS. DEPTH OR ON FROZEN GROUND.
- C. PROTECT AREA AFTER CONSTRUCTION. 1. ESTABLISH GRASS OR OTHER SUITABLE VEGETATION ON ALL DISTURBED AREAS. SELECT SPECIES ADAPTED TO THE SITE CONDITIONS AND THE FUTURE USE OF THE AREA. FINAL GRADES SHALL BE SEEDED WITHIN 72 HOURS. STABILIZATION SHALL BE
- DEFINED AS 85% VEGETATIVE COVER. 7. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION 2. MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE 'BEST MANAGEMENT PRACTICES' DURING THE CONSTRUCTION PERIOD. CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY THE OWNER'S ENGINEERING CONSULTANT. 3. MAINTAIN NEEDED STRUCTURAL 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION PONDS AND SEDIMENT
- BASINS AS NEEDED.
- 4. DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.
- 5. IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, GRADED AREAS ARE TO BE STABILIZED WITH NORTH AMERICAN GREEN DS150 MATTING OR EQUAL.
- D. INVASIVE SPECIES MONITORING / ELIMINATION 1.PRECAUTIONS SHALL BE TAKEN TO PREVENT IMPORT OR TRANSPORT OF SOIL OR SEED STOCK CONTAINING NUISANCE OR INVASIVE SPECIES SUCH AS PURPLE LOOSESTRIFE, KNOTWEED OR PHRAGMITES. THE CONTRACTOR SHALL ADDRESS INVASIVE SPECIES IN ACCORDANCE WITH THE REPORT "NH DOT BEST MANAGEMENT PRACTICES FOR ROADSIDE INVASIVE PLANTS (2008)".
- 2.TO PREVENT THE INTRODUCTION OF INVASIVE PLANT SPECIES TO THE SITE, THE CONTRACTOR SHALL CLEAN ALL SOILS AND VEGETATION FROM CONSTRUCTION EQUIPMENT AND MATTING BEFORE SUCH EQUIPMENT IS MOVED TO THE SITE.
- 3.IF ANY INVASIVE OR NUISANCE SPECIES ARE FOUND DURING CONSTRUCTION OR DURING THE EARLY STAGES OF VEGETATIVE ESTABLISHMENT, THE CONTRACTOR WILL COORDINATE WITH NHOOT AND THE NH WETLANDS BUREAU TO DETERMINE AGREED TO CONTROL MEASURES.
- E. POST CONSTRUCTION MONITORING
- 1.AFTER CONSTRUCTION IS COMPLETE THE DISTURBED AREAS WILL BE MONITORED FOR INVASIVE SPECIES DURING THE FIRST GROWING SEASON BUT BEFORE SEED SET. ANY INVASIVE SPECIES WILL BE MECHANICALLY REMOVED AND DISPOSED OF ACCORDING TO STANDARDS IN THE REPORT "NH DOT BEST MANAGEMENT PRACTICES FOR ROADSIDE INVASIVE PLANTS (2008)".
- 2.LOBDELL ASSOCIATES, INC, WILL BE RESPONSIBLE FOR POST CONSTRUCTION MONITORING OF EROSION CONTROL, REVEGETATION, TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCC AND INVASIVE SPECIES. A MONITORING REPORT WITH PHOTOS AND RECOMMENDED REMEDIAL ACTIONS, IF ANY, WILL BE NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATOF SUBMITTED TO THE NH WETLANDS BUREAU WITH COPIES SENT TO NHDOT, AND THE TOWN OF WHITEFIELD. THE REPORT WILL MEGYESY (978) 578-0802 AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. BE SUBMITTED WITH 30 DAYS OF NOTIFICATION OF PROJECT COMPLETION.

SEDIMENT FENCE POCKET

CONSTRUCTION NOTES FOR SEDIMENT FENCE

- . WOVEN WIRE FENCE, IF REQUIRED, TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.
- 5. FILTREXX SILTSOXX SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO SEDIMENT FENCE IF INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

4. USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY FROM EROSION PRONE AREAS TO POINTS OF

COLD WEATHER SITE STABILIZATION REQUIREMENTS

TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1:

- 1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN, DEVELOPED BY A OUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.
- 2. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE, SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2 INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H)
- 3. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH PROPERLY INSTALLED AND ANCHORED EROSION CONTROL MATTING OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
- 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA OF ENV-WO 1506.05(D) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
- 6. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 OR 3 ABOVE, SHALL BE COMPLETED WITHIN 1 DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
- 8. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM NO. 304.1 OR 304.2.

NEW HAMPSHIRE FISH AND GAME (NHFG) THREATENED AND ENDANGERED WILDLIFE NOTE

NH FISH AND GAME (NHFG) RECOMMENDS THAT THE FOLLOWING CONSERVATION MEASURES:

- BLANDING'S TURTLE (STATE ENDANGERED), NORTHERN BLACK RACER (STATE THREATENED), AND SPOTTED TURTLE (STATE TH OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION.
- 2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHA THIS PLAN SET.
- OBSERVATIONS OF NORTHERN BLACK RACERS SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME D PLEASE CONTACT (CALL OR TEXT) MELISSA WINTERS (603) 479-1129 OR BRENDAN CLIFFORD (603) 944-0885. PLEASE INCLUDE
- THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PRO
- 6. SITE WORK IN THE SANDY AREA SURROUNDING THE NEW PUMP STATION SHALL BE PERFORMED BETWEEN OCTOBER 15TH-MA
- 7. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NO POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.
- 8. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO REVIEW PROGRAM BY PHONE AT (603) 271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING NHB DATACHECK TOOL RESULTS LETTER ASSI IMPROVEMENTS, AND THE TERM WILDLIFE SPECIES OBSERVATION.
- 10. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE I FOR VERIFICATION, AS FEASIBLE.
- 11. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERM ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF
- 12. CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
- 13. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZON RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE IF THIS ACTION OCCURS
- 14. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM ONLY AND IS NOT FIELD VERIFIED.

PROFILE VIEW

ROCK CHEC

			Ŋ					
CONSTRUCT	ION SEQUENCE	ŀ	M D D					
. CUT AND CLEAR TREES WITHIN THE CLEARING	G LIMITS.	ŀ	EN I		_	-		
 PREPARE A STORMWATER POLLUTION PREVEN PROJECT. 	TION PLAN (SWPPP) AND NOTICE OF INTENT (NOI) F	OR THE						
INSTALL SEDIMENT FENCES, ROCK CHECK DAN MEASURES AT LOCATIONS SHOWN ON THE PL PROCEED WITH WORK LIMITING THE DURATI	AND OTHER APPROPRIATE EROSIONS CONTROL ANS AND AS NEEDED.	rFΔ						
SHALL BE ONE ACRE IN SIZE. THE MAXIMUM I UNSTABILIZED IS 30 DAYS.	ENGTH OF TIME THAT A WORK UNIT MAY BE LEFT	εA.						
5. BEGIN SEEDING AND MULCHING IMMEDIATELY STABILIZED WITH APPROVED METHODS WITH	(AFTER GRADING. ALL DISTURBED AREAS SHALL BE HIN 72 HOURS OF ACHIEVING FINISHED GRADE.		z					
AN AREA SHALL BE CONSIDERED STABLE IF C A) BASE COURSE GRAVELS HAVE BEEN INS B) A MINIMUM OF 85% VEGETATED GROW C) A MINIMUM OF 3" OF NON-EROSIVE MAT D) EROSION CONTROL BLANKETS HAVE BEE	INE OF THE FOLLOWING HAS OCCURRED: FALLED IN AREAS TO BE PAVED; FH HAS BEEN ESTABLISHED; FERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTAL EN PROPERLY INSTALLED.	LED; OR	DESCRIPTIO					
5. INSPECT ALL EROSION CONTROL MEASURES C PRECIPITATION. MAINTAIN SEDIMENT FENC	N A DAILY BASIS AND AFTER EVERY 0.5 INCHES OF E, SEDIMENT TRAPS, HAY BALES, ETC., AS NECESSAR	Y.	ISION					
7. PLACE TOPSOIL, SEED AND MULCH.			REV					
3. COMPLETE ALL REMAINING PERMANENT EROS	ION CONTROL STRUCTURES.							
MONITOR THE SITE AND MAINTAIN STRUCTUR	RES AS NEEDED UNTIL FULL VEGETATION IS ESTABLIS	SHED.	DATE					
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		-	PR(DA.	SUI	ENG	DR	CH
HREATENED) OCCUR WITHIN THE VICINITY OF T THESE SPECIES AND SHALL BE PROVIDED FLYER	THE PROJECT AREA. ALL RS IN THIS PLAN SET		III.	ALL MAR	HIRE	- 43	NIIIIIII NIS	
NHFG IMMEDIATELY AND NHFG CONTACT INFOR ASE OF THE PROJECT. FLYERS ARE INCLUDED ON	MATION SHALL BE PLAN SHEET C1.1 OF		HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	OF NEW	MARC	10. 11167	SONAL EN	
DEPARTMENT NONGAME AND ENDANGERED WILD	LIFE REVIEW PROGRAM.		5	IIm	15-	PRO	MIMIN	
CURS APPROXIMATELY MAY 15TH – JUNE 30TH. A DRS SHALL CONTACT MELISSA WINTERS (603) 47	ALL TURTLE SPECIES 9-1129 OR JOSH	F					Ц	J
THIS SHALL BE COMMUNICATED TO ALL PERSON	NEL ONSITE. SITE				7	Ż	E INK M	
OVIDED BY NHFG.			1			Ž	- VT Kenne	
UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PR	DTECTION, RUNOFF		Ì			2	VPORT	•
OT CONTAIN PLASTIC, OR MULTIFILAMENT OR M	ONOFILAMENT		_			ž		-
) THE NHFG NONGAME AND ENDANGERED WILDL	IFE ENVIRONMENTAL				l ì	Ż	NH •	5
IGNED NUMBER NHB23-0318, TRANQUILITY ESTA	TES WATER SYSTEM		 		ť,	Z,		-
PROVIDED TO NHFG IN DIGITAL FORMAT AT THE	E ABOVE EMAIL ADDRESS				Ţ			
MIT, THE SPECIES SHALL NOT BE DISTURBED, H	ANDLED, OR HARMED IN		(
ne if in direct harm from project activiti F individual was heading. Nheg shall be co	ES. WILDLIFE SHALL BE INTACTED IMMEDIATELY						NEW	
M OF THE PERMIT. SKETCHES AND NOTES FOR I	LLUSTRATION PURPOSES							
1. CONSTRUCT ROCK CHECK DAMS WHERE IND	ICATED ON THE PLANS OR AS NECESSARY.		IVE					١LS
2. CONSTRUCT SPILLWAY IN CENTER OF ROCK	CHECK DAM 6" BELOW TOP OF CHANNEL.		RAT	, ((Ľ Ŋ			ETA
3. THE MAXIMUM SPACING BETWEEN THE CHEC OF THE UPSTREAM CHECK DAM IS AT THE SA	CK DAMS SHOULD BE SUCH THAT THE TOE ME ELEVATION AS THE SPILLWAY		OPE		ト ト	RE		ച യ
ELEVATION OF THE DOWNSTREAM CHECK DA SLOPE OF THE CHANNEL.	AM, THIS WILL VARY DEPENDING ON THE		ğ	ΕMΗ	: MEN 4-125	IIHSHI		TES
 ROCK CHECK DAMS SHALL CONSIST OF A WE REMOVE ROCK CHECK DAMS AND ANY ACCUP PERMANENT CHANNEL LININGS HAVE BEEN E 	LL GRADED MIXTURE OF 2" - 3" STONE. NULATED SILT IN CHANNEL ONCE		ATES		XOVE 38, LOT	EW HAN		DL NO
			EST	URE V	I LIVIF MAP∷	ND, N		JTRC
VARIES DEPENDING ON CHANNEL SLOPE			F	LEIS		RAYMC		CON
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SEE NOTE 3 SEE NOTE 3			ZANC		AIEF			ROS
	Concerned Concerned Concerned Concerned Concerned		ŢŢ		$\hat{\mathbf{S}}$			ш
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	PAY WIDTH: 10 FEET
1. <u>ORDERED EXCAVATION OF UNSUITABLE MATERIAL</u> BELOW GRADE SHALL BE REPLACED WITH BEDDING MATERIAL. SEE ALSO NOTE 4.	CUT ORIGINAL PAVEMENT BACK 12 INCHES FROM EDGE OF TRENCH. COLD PLANE ORIGINAL PAVEMENT TO A DEPTH 1 INCH. 12 INCHES BACK FROM EDGE OF PAVEMENT CUT
2. <u>BEDDING</u> : SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 67.	TYP. TRENCH PAVEMENT
100% PASSING 1 INCH SCREEN 90-100% PASSING 3/4 INCH SCREEN 20-55% PASSING 3/8 INCH SCREEN 0-10% PASSING #4 SIEVE 0-5% PASSING #8 SIEVE	6" CRUSHED GRAVEL SEE
 SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 100% PASSES A ½ INCH SIEVE AND NOT MORE THAN 15% PASSES A #200 SIEVE. 	12" BANK RUN GRAVEL SEE
 <u>SUITABLE MATERIAL</u>: IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED FROM THE TRENCH DURING THE COURSE OF CONSTRUCTION, AFTER EXCLUDING DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIAL NOT APPROVED BY THE ENGINEER. 	SUITABLE MATERIAL SEE NOTE 4 DETECTABLE WARNING TAPE
TRENCH BACKFILL IN CROSS-COUNTRY LOCATIONS SHALL BE SUITABLE MATERIAL AS DESCRIBED ABOVE, EXCEPT THAT TOP SOIL, LOAM, MUCK, OR PEAT MAY BE USED PROVIDED THAT THE COMPLETED CONSTRUCTION WILL BE STABLE AND ACCESS TO THE PIPE FOR MAINTENANCE AND RECONSTRUCTION IS PRESERVED. BACKFILL SHALL BE MOUNDED TO A HEIGHT OF SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE	SAND BLANKET SEE NOTE 3
 <u>BASE COURSE FOR TRENCH REPAIR</u> SHALL MEET THE REQUIREMENTS OF SECTION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION. 	BEDDING SEE NOTE 2
6. <u>SHEETING</u> : ALL TRENCH SUPPORTS SHALL CONFORM TO OSHA STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OSHA COMPLIANCE AND WORKER SAFETY THROUGHOUT CONSTRUCTION.	$\begin{array}{c c} \hline & 12" \hline & D \hline & 12" \\ \hline & 36" \text{ MAX.} \\ \hline \hline & (\text{FOR } D < OR = 15") \\ \hline \end{array}$
7. <u>TRENCH DIMENSIONS</u> : W = MAXIMUM ALLOWABLE TRENCH WIDTH MEASURED 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER (D) OR LESS, W SHALL BE NO MORE THAN 36 INCHES; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS THE PIPE OUTSIDE DIAMETER. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. THE MAXIMUM ALLOWABLE TRENCH PAVEMENT PAYMENT WIDTH SHALL BE 8 FEET CENTERED OVER PIPE.	NOTE: MINIMUM BEDDING DEPTH AND MAXIMUM PAYMENT LIMIT FOR LEDGE EXCAVATION = 1/4D (12" MINIMUM) LEDGE/SUB PAVEMENT C(
8. <u>WATER/SEWER SEPARATION</u> : WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER BY A MINIMUM OF 10 FEET HORIZONTALLY AND A MINIMUM OF 18 INCHES VERTICALLY, WITH THE WATER MAIN ABOVE THE SEWER.	
9. <u>PIPE COVER:</u> COVER OVER WATER SHALL BE 6 FEET MINIMUM IN ALL LOCATIONS.	
	3
FINISH GRADE	

WATER SERVICE CONNECTION

NOT TO SCALE

1,385	706	355	
2,862	1,459	733	
4,923	2,510	1,261	
7,406	3,776	1,897	
10,474	5,340	2,683	
14,072	7,174	3,604	
18,199	9,278	4,661	
22,858	11,653	5,855	
28,046	14,298	7,183	
40,013	20,398	10,249	

NOTE:

SOIL	BEARING LOAD (LBS./SQ. FT.)				
MUCK	0				
SOFT CLAY	1,000				
SILT	1,500				
SANDY SILT	3,000				
SAND	4,000				
SANDY CLAY	6,000				

1. CONTRACTOR TO NOTIFY LOCAL EMERGENCY SERVICES, NHDOT DISTRICT ONE OFFICE AND ROAD FORMAN 24 TO 48 HOURS PRIOR TO CONSTRUCTION OF WORK WITHIN THE RIGHT OF WAY.

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