Prepared By:



197 SCOTT SWAMP ROAD FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM

Prepared For:

Mark Possidento, P.E., Town Engineer Town of Wolcott 1 Kenea Street Wolcott, CT

AUGUST 21, 2018 (REVISED NOVEMBER 5, 2019)

CEDAR LAKE DAM (#16603) **(CT DAM #16603) DAM & ROADWAY IMPROVEMENTS**

NORTH STREET WOLCOTT, CONNECTICUT

HRP PROJECT NO. WOL2026.CE

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	GENERAL NOTES	
1.	HORIZONTAL AND VERTICAL CONTROLS AND EXISTING CONDITIONS ARE BASED ON INFORMATION OBTAINED FROM "EXISTING CONDITIONS PLAN, NORTH STREET DAM" 1"=10' PREPARED BY MILONE AND MACBROOM, CHESHIRE, CT DATED MAY 2011 AND	SPECIFICATIONS: CONNECTICU SUPPLEMENTAL SPECIFICATIO
2.	SUPPLEMENTED WITH FIELD SURVEY BY HRP ASSOCIATES, DATED JULY 2012. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES DISCOVERED	DESIGN SPECIFICATIONS: AASH EDITION (2013) AS SUPPLEMEN TRANSPORTATION BRIDGE MAI INCLUDING 2011.
	DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE ENGINEER.	ALLOWABLE DESIGN STRESSES
3.	THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING, PRIOR TO BIDDING, THE LOCATIONS OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SAID UTILITIES. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455), AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH INDIVIDUAL UTILITY COMPANIES.	CLASS "A" CONCRETE: CLASS "F" CONCRETE: CLASS "50" CONCRETE: REINFORCEMENT (ASTM 615 GF
4.	THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT PROPER STORM DRAINAGE IS MAINTAINED THROUGHOUT CONSTRUCTION.	SALVAGE: NONE DIMENSIONS AND ELEVATIONS
5.	ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AS OUTLINED HEREIN. INSPECTION AND MAINTENANCE SHALL BE CARRIED OUT THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION OR PAVING. THE MINIMUM INSPECTION REPIOD SHALL BE WEEKLY AND AFTER MAJOR STORMS	GIVEN TO LESS THAN THREE D TO BE ZERO. ALL ELEVATIONS <u>EXISTING DIMENSIONS</u> : DIMENS PLANS ARE FOR GENERAL REF
6.	CONSTRUCTION ACTIVITIES SHALL CONFORM TO APPLICABLE SECTIONS OF THE TOWN OF WOLCOTT STANDARDS AND APPLICABLE SECTIONS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION," FORM 817, AS AMENDED.	FIT OF THE FINISHED WORK AN ACCURACY. WHEN SHOP DRAV FOR APPROVAL, THE FIELD ME REFERENCE BY THE REVIEWER
7.	ALL CONSTRUCTION ACTIVITIES SHALL BE IN CONFORMANCE WITH DEEP DAM SAFETY PERMIT DS-201810624.	UTILITIES: THE CONTRACTOR S THE VICINITY OF THE SITE DUR PROTECTING UTILITIES SELECT
8.	CEDAR LAKE WATER LEVEL SHALL BE DROPPED PRIOR TO START OF	COMPANIES EXCEPT WHERE N
	LEVEL SHALL BE LOWERED BY LOW LEVEL OUTLET. BEFORE THE WATER LEVEL IS LOWERED, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO CT DEEP DAM SAFETY AND TO THE LAKE ASSOCIATION	CONCRETE NOTES
	DAM SALETT AND TO THE LAKE ASSOCIATION.	RETURN WALLS, HEADWALLS, F
CO	NSTRUCTION SEQUENCE AND WATER HANDLING PLAN	<u>CLASS "F" CONCRETE</u> : CLASS " INCH PIPE, ARTICULATED CONC
	ONTRACTOR NOTE: ANY REVISIONS TO THE SEQUENCE MADE BY THE CONTRACTOR	5,000 PSI TYPE III SCC CONCRE THE PRECAST CONCRETE BOX
PR CC	ROGRAM AT ITS EMAIL ADDRESS: DEEP.DAMSAFETY@CT.GOV BEFORE BEGINNING DNSTRUCTION OR WITHIN 48 HOURS OF ITS REVISION AFTER CONSTRUCTION HAS	REINFORCEMENT: ALL REINFOR
ST NC	ARTED. DTIFY THE TOWN AND CEDAR LAKE OWNERS ASSOCIATION PRIOR TO START OF WORK.	EXPOSED EDGES: EXPOSED ED DIMENSIONED OTHERWISE.
	MING RESTRICTION: THE CONSTRUCTION WORK SHALL BE COMPLETED IN 2019.	EPOXY COATED REINFORCEME
CC	ONSTRUCTION WORK SHALL BE STARTED NO EARLIER THAN SEPTEMBER 16TH, 2019. CALL CBYD AT LEAST 3 DAYS PRIOR TO COMMENCEMENT OF WORK.	"PRECAST CONCRETE BOX CUL RETURN WALLS SHALL BE PAID REINFORCEMENT IN THE HEAD
2.	MOBILIZE TO SITE.	THE ITEM "DEFORMED STEEL B
3.	INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. SEE SHEETS C3.1 AND C3.2.	<u>CONCRETE COVER</u> : ALL REINFO OTHERWISE.
4.	SEE SESC SHEETS FOR STOCKPILE STORAGE AREAS.	PREFORMED EXPANSION JOINT PREFORMED EXPANSION JOINT CONCRETE".
ха Гариана Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Ула Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Ула Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Ула Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Ула Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Улаба Ула Ула Улаба Улаба Улаба Улаба Улаба Улаба Улаба С Улаба ССС Ула Улаба Ула С Улаба С С Улаба С С С С С С С С С С С С С С С С С С	DEWATERING:	AGGREGATES - CONFORM TO I
019 - 338pm OPEKA I	CEDAR LAKE WATER LEVEL SHALL BE DROPPED PRIOR TO START OF CONSTRUCTION. THE WATER LEVEL SHALL BE LOWERED TO LEVEL OF LOW LEVEL OUTLET. THE WATER LEVEL SHALL BE PERFORMED BY REMOVAL OF STEEL PLATE IN WEIR. DO NOT ALLOW SEDIMENT TO MIGRATE DOWNSTREAM.	1. BEDDING MATERIAL: MAT ALL OF WHICH PASSES A SIEVE. WHEN GROUND W
1E: Nov U5,	AFTER WATER LEVEL IS DROPPED TO LOW LEVEL OUTLET, CLOSE THE GATE VALVE IN THE GATE HOUSE AND LOCK OUT VALVE.	SOIL.
6.	CLOSE ROADWAY TO TRAFFIC AND PERFORM SITE REMOVAL ACTIVITIES AS SHOWN ON C1.1.	2. AGGREGATES FOR UNDE CONSIST OF WELL-GRAD DURABLE BROKEN STON
1001: GN-1 GENERALI	THE DETOUR PLAN IS TO DETOUR EASTBOUND TRAFFIC FROM NORTH STREET TO THE NORTH ON SPINDLE HILL ROAD AND WITCHES ROCK ROAD. AFTER 0.8 MILES, TURN RIGHT ONTO WOLCOTT STREET AND PROCEED EASTBOUND. TURN RIGHT ONTO WOLCOTT ROAD (ROUTE 69) AND TRAVEL SOUTH FOR 1 MILE. FOR WESTBOUND TRAFFIC. TRAFFIC WILL BE DETOURED TO WOLCOTT ROAD (ROUTE 69).	SAND: THIS MATERIAL SHALL M BROKEN STONE OR SCREENED GRADATION REQUIREMENTS FO
LES.dwg LA	AFTER TRAVELING 1 MILE NORTH ON ROUTE 69, TRAFFIC WILL TAKE A LEFT ONTO WOLCOTT STREET AND PROCEED TO WITCHES ROCK ROAD. TRAFFIC WILL TURN	DRAINAGE
ENERAL NO	THEN TURN LEFT ONTO NORTH STREET.	POLYVINYL CHLORIDE PLASTIC REQUIREMENTS OF ASTM D 178
7.	INSTALL UNDERDRAINS IN EMBANKMENT.	STANDARD PATTERN AND CON
8.	INSTALL ACB CHUTE AND PRECAST CONCRETE BOX CULVERT. CARE SHALL BE TAKEN TO PREVENT EXCESSIVE DISTURBANCE OF THE EXISTING DAM AND EMBANKMENT TO REMAIN IN PLACE.	DUCTILE IRON PIPE: IT SHALL C DUCTILE IRON, STANDARD THIC SHALL CONFORM TO AWWA C1
9.	INSTALL 36-INCH DIP PIPE.	CONFORM TO: AWWA C105 POL PIPE THRUST RESTRAINTS AT (
10.	. INSTALL OUTLET PROTECTION AT DISCHARGE POINTS.	FULL ACCESS TO PIPE AND PIP BEARING ON SUBSOIL.
11.	. RESTORE SITE PER SHEET C1.2.	ENDWALLS
12.	. OPEN LOW FLOW OUTLET FOR WINTER CONDITIONS.	THEY SHALL BE BUILT IN THE L
1-100/	. REOPEN ROAD TO TRAFFIC.	FINISHED, TRUE TO THE LINES
14. 15.	. ONCE SITE IS STABILIZED, REMOVE SESC MEASURES. . CONDUCT FINAL WALK THROUGH INSPECTION WITH TOWN AND ENGINEER.	FINISHED TO PROVIDE NEAT, W ENTER ENDWALLS ON A SKEW SHORT SIDE OF THE PIPE MAY APPROVED BY THE ENGINEER.

CTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2004), CATIONS DATED JANUARY, 2016 AND SPECIAL PROVISIONS.

: AASHTO LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES, 7TH EMENTED BY THE CONNECTICUT DEPARTMENT OF SE MANUAL (2003) EDITION WITH REVISIONS UP TO AND

<u>RESSES</u>:

ťc =	3,300	psi
f'c =	4,400	psi
f'c =	5,000	psi
fy =	60,000	psi
	f'c = f'c = f'c = fy =	f'c = 3,300 f'c = 4,400 f'c = 5,000 fy = 60,000

TIONS: WHEN DECIMAL DIMENSIONS AND ELEVATIONS ARE REE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED IONS ARE GIVEN IN DECIMAL FEET AND ARE BASED ON NAVD 88.

IMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE . REFERENCE ONLY AND ARE NOT GUARANTEED. THE KE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER RK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED LD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR IEWER.

TOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN E DURING CONSTRUCTION. THE METHOD OF SUPPORTING AND ELECTED BY THE CONTRACTOR MUST BE APPROVED BY THE TY MODIFICATIONS SHALL BE MADE BY THE RESPECTIVE UTILITY ERE NOTED OTHERWISE.

LASS "A" CONCRETE SHALL BE USED FOR THE CUT-OFF WALLS, ALLS. ENDWALLS AND WINGWALL FOOTINGS.

LASS "F" CONCRETE SHALL BE USED FOR THE SLAB ABOVE 36) CONCRETE MAT, AND SIDEWALK.

NCRETE: 5,000 PSI TYPE III SCC CONCRETE SHALL BE USED FOR E BOX CULVERT.

EINFORCEMENT SHALL BE ASTM A615 GRADE 60.

SED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1", UNLESS

RCEMENT BARS: ALL REINFORCEMENT IN THE PRECAST SHALL BE EPOXY COATED AND INCLUDED IN THE PAY ITEM DX CULVERT". ALL REINFORCEMENT IN THE CUT-OFF WALLS, AND E PAID FOR IN THE PAY ITEM "DEFORMED STEEL BARS". ALL HEADWALLS SHALL BE EPOXY COATED AND PAID FOR UNDER TEEL BARS (EPOXY COATED)".

REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED

JOINT FILLER: THE COST OF FURNISHING AND INSTALLING JOINT FILLERS SHALL BE INCLUDED IN THE ITEM "CLASS 'A'

M TO DOT FORM 817 M.08.03--AGGREGATES

.: MATERIAL FOR PIPE BEDDING SHALL BE SAND OR SANDY SOIL, SES A 3/8-IN SIEVE, AND NOT MORE THAN 10% PASSES A NO. 200 JND WATER IS ENCOUNTERED, THE ENGINEER MAY ALLOW NO. 6 NG TO ARTICLE M.01.01 TO BE USED INSTEAD OF SAND OR SANDY

UNDERDRAINS: MATERIALS FOR FILLING THE TRENCH SHALL GRADED, CLEAN, NON-PLASTIC ANDS OR WELL-GRADED, CLEAN, STONE OR SCREENED GRAVEL. UNLESS OTHERWISE NOTED. ERIAL TO BE USED SHALL BE SAND.

HALL MEET THE REQUIREMENTS OF SUBARTICLE M.03.01-2. EENED GRAVEL: THIS MATERIAL SHALL CONFORM TO THE NTS FOR SIZE NO. 8 UNDER ARTICLE M.01.01.

ASTIC PIPE (PVC PIPE): IT SHALL CONFORM TO THE 1 D 1785. COUPLINGS AND ELBOWS SHALL CONFORM TO THE 1 D 2466 OR D 2467. PERFORATED PIPE SHALL BE SCHEDULE 40 D CONFORM TO THE REQUIREMENTS OF ASTM D 2729.

HALL CONFORM TO AWWA C151:A21.51-91 CLASS 54; FITTINGS: D THICKNESS WITH RETAINER GLANDS M/J JOINTS. THE JOINTS WA C111, RUBBER GASKET WITH RODS. THE JACKETS SHALL 05 POLYETHYLENE JACKET. FORM AND PLACE CONCRETE FOR IS AT CHANGE OF PIPE DIRECTION. PLACE CONCRETE TO PERMIT ND PIPE ACCESSORIES. PROVIDE SQ FT THRUST RESTRAINT

THE LOCATION AND TO THE DIMENSIONS AND DETAILS SHOWN RDERED, AND THEY SHALL BE NEATLY AND ACCURATELY LINES AND GRADES GIVEN. PIPES SHALL BE OF SUFFICIENT THE EXPOSED FACE OF THE ENDWALL, AND THE END SHALL BE EAT, WATERTIGHT JOINTS. THE ENDS OF PIPE CULVERTS WHICH SKEW SHALL BE CUT TO THE ANGLE OF THE SKEW; OR THE E MAY BE BUILT OUT WITH ADEQUATE FORMS, IF THIS METHOD IS

FILL MATERIALS

ALL OFF-SITE MATERIAL BROUGHT TO THE SITE SHALL BE FREE OF CONTAMINANTS. THE CONTRACTOR SHALL IDENTIFY THE SOURCE OF THE MATERIAL AND PROVIDE RESULTS OF ENVIRONMENTAL TESTING PERFORMED ON A REPRESENTATIVE SAMPLE OF THE MATERIAL FROM EACH SOURCE.

THE OWNER MAY REQUEST THAT THE CONTRACTOR ENGAGE THE SERVICES OF A LICENSED ENVIRONMENTAL PROFESSIONAL (LEP) TO CERTIFY THAT PROPOSED OFF-SITE FILL IS SUITABLE FOR USE UNDER THE PROVISIONS OF SECTION 22A-449(C)-102(A)(1) OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES (RCSA) AND ALL OTHER RELEVANT LAWS AND REGULATIONS.

RECYCLED AGGREGATE PRODUCT (RAP) CONTAINING ASPHALT SHALL NOT BE USED AS FILL MATERIAL, NOR SHALL ANY FILL CONTAIN CONCRETE OR FORMER BUILDING MATERIALS.

1. COMMON FILL MATERIAL

COMMON FILL FROM ON-SITE SOURCES USED AS BACKFILL OF EXCAVATIONS/ROOT BALL VOIDS AND TO REGRADE WORK AREAS AS APPLICABLE SHALL CONSIST OF MATERIAL PREVIOUSLY EXCAVATED BY THE CONTRACTOR FROM THE PROJECT SITE. EXCAVATED MATERIAL WILL BE EXAMINED BY THE ENGINEER TO JUDGE ITS SUITABILITY FOR RE-USE ON THE PROJECT SITE AS BACKFILL MATERIAL EXCAVATED MATERIAL SHALL BE JUDGED SUITABLE IF IT GENERALLY MEETS THE STANDARDS FOR COMMON FILL, BEING A NON-FRIABLE, NON-SOLUBLE, WELL GRADED SOIL, FREE OF RUBBISH, ICE, SNOW, TREE STUMPS, ROOTS AND ORGANIC MATTER, WITH NO LESS THAN FIFTEEN PERCENT (15%) AND NO MORE THAN THIRTY PERCENT (30%) PASSING THE NO. 200 SIEVE. THERE SHALL BE NO STONES GREATER THAN 3 INCHES IN SIZE. THERE SHALL ALSO BE NO OBSERVABLE INDICATIONS OF CONTAMINATION.

THE ENGINEER SHALL BE THE SOLE JUDGE OF THE SUITABILITY OF EXCAVATED MATERIAL FOR USE AS ON-SITE BACKFILL. PEAT OR OTHER ORGANICS ARE NOT ACCEPTABLE FOR COMMON FILL. EXCAVATED BOULDERS OR BEDROCK ARE NOT ACCEPTABLE FOR USE OF COMMON FILL. THE CONTRACTOR MAY, AT HIS OWN EXPENSE, CHOOSE TO MODIFY THE EXCAVATED MATERIAL (BY SCREENING, MIXING, ETC.) TO ATTEMPT TO MAKE THE MATERIAL MORE SUITABLE FOR RE-USE. MIXING OF PEAT WITH OTHER MATERIAL WILL NOT BE PERMITTED TO PRODUCE COMMON FILL MATERIAL. SOME ADDITIONAL HANDLING OF SUITABLE MATERIAL (DRYING, MIXING, CULLING OF OVERSIZED STONES) MAY BE NECESSARY AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

MATERIAL JUDGED TO BE UNSUITABLE OR EXTRA MATERIAL SHALL BE SEPARATED FROM THE REST. MATERIAL UNSUITABLE FOR USE IN THE PRIMARY WORK AREAS MAY BE USED ELSEWHERE ON SITE IN LESS CRITICAL AREAS, AT THE JUDGMENT OF THE ENGINEER OR MAY BE REMOVED FROM THE SITE BY THE CONTRACTOR.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3-INCH	100
NO. 10	70 - 95
NO. 40	40 - 65
NO. 200	15 - 30

2. LOW PERMEABILITY FILL

LOW PERMEABILITY FILL SHALL BE A WELL GRADED MATERIAL, FREE OF RUBBISH, ICE, SNOW, TREE STUMPS, ROOTS, ORGANIC MATERIAL, OR OTHER DELETERIOUS MATERIALS. THERE SHALL BE NO STONES GREATER THAN THREE INCHES IN DIAMETER. MATERIALS SHALL HAVE A PERMEABILITY OF NO MORE THAN 1X10-5 CENTIMETERS PER SECOND AT 95% OF THE STANDARD PROCTOR DENSITY. AS DETERMINED BY A COMPACTED PERMEABILITY TEST (ASTM D5084). MATERIAL SHALL BE PLACED WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3-INCH	100
NO. 10	30 - 90
NO. 40	10 - 70
NO. 200	20 - 40

3. GRANULAR FILL - CONFORM TO DOT FORM 817 SECTION 2.13

IT SHALL CONSIST OF GRAVEL OR RECLAIMED MISCELLANEOUS AGGREGATE CONTAINING NO MORE THAN 2% BY WEIGHT (MASS) OF ASPHALT CEMENT CONFORMING TO THE REQUIREMENTS OF THESE SPECIFICATIONS GRANULAR FILL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.02.01 WHEN GRANULAR FILL IS USED FOR FOUNDATION FOR STRUCTURES OR TO REPLACE ROCK OR UNSUITABLE MATERIAL IN TRENCHES, IT SHALL BE DEPOSITED IN LAYERS NOT OVER 6 INCHES IN DEPTH, WITH EACH LAYER THOROUGHLY COMPACTED BEFORE THE ADDITION OF OTHER LAYERS.

SPECIFICATIONS

RIPRAP SHALL BE CONSTRUCTED ACCORDING TO FORM 817 SECTION 7.03 CONSTRUCTION METHODS: THE AREA TO BE PROTECTED BY RIPRAP SHALL BE ACCURATELY SHAPED PRIOR TO PLACING OF ANY BEDDING MATERIAL OR RIPRAP. WHERE BEDDING MATERIAL IS CALLED FOR, IT SHALL BE PLACED ON THE PREPARED AREA AND COMPACTED TO THE DEPTH, LINES AND GRADES INDICATED ON THE PLANS. THE RIPRAP SHALL BE PLACED TO ITS FULL COURSE THICKNESS IN ONE OPERATION IN SUCH A MANNER AS TO PRODUCE A REASONABLY WELL-GRADED MASS OF ROCK WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES. PLACING THIS MATERIAL BY METHODS LIKELY TO CAUSE SEGREGATION OF THE VARIOUS SIZES OF STONE WILL NOT BE PERMITTED. REARRANGING OF INDIVIDUAL STONES BY MECHANICAL OR HAND METHODS WILL BE REQUIRED TO THE EXTENT NECESSARY TO OBTAIN A REASONABLY WELL-GRADED DISTRIBUTION OF THE SPECIFIED STONE SIZES. THE COMPLETED COURSE SHALL BE OF THE SPECIFIED THICKNESS AND TO THE LINES AND GRADES AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.

RIPRAP SHALL BE CONFORM TO CT DOT FORM 817 SECTION M.12.02--RIPRAP: MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE AND ANGULAR ROCK, FREE FROM DECOMPOSED STONES OR OTHER DEFECTS IMPAIRING ITS DURABILITY. THE SIZE OF A STONE AS HEREINAFTER SPECIFIED SHALL BE ITS LEAST DIMENSION. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE. THE TYPE OF MATERIAL TO BE USED SHALL BE AS NOTED ON THE PLANS, IN THE SPECIAL PROVISIONS OR AS MAY BE ORDERED BY THE ENGINEER.

- 1. STANDARD RIPRAP: THIS MATERIAL SHALL CONFORM TO THE FOLLOWING **REQUIREMENTS:**
- A. NOT MORE THAN 15% OF THE RIPRAP SHALL BE SCATTERED SPALLS AND STONES LESS THAN 6 INCHES IN SIZE.
- B. NO STONE SHALL BE LARGER THAN 30 INCHES IN SIZE, AND AT LEAST 75% OF THE WEIGHT (MASS) SHALL BE STONES AT LEAST 15 INCHES IN SIZE.
- 2. INTERMEDIATE RIPRAP: THIS MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION:

STONE SIZE	% OF THE WEIGHT (MASS)
18 IN. (460 MM OR OVER)	0
10 IN. TO 18 IN. (255 MM TO 460 MM)	30 - 50
6 IN. TO 10 IN. (150 MM TO 255 MM)	30 - 50
4 IN. TO 6 IN. (100 MM to 150 MM)	20 - 30
2 IN. TO 4 IN. (50 MM to 100 MM)	10 - 20
LESS THAN 2 IN. (LESS THAN 50 MM)	0 - 10

MODIFIED RIPRAP: THIS MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION

STONE SIZE	% OF THE WEIGHT (MASS)
18 IN. (460 MM OR OVER)	0
10 IN. TO 18 IN. (255 MM TO 460 MM)	20 - 50
6 IN. TO 10 IN. (150 MM TO 255 MM)	30 - 60
4 IN. TO 6 IN. (100 MM to 150 MM)	30 - 40
2 IN. TO 4 IN. (50 MM to 100 MM)	10 - 20
LESS THAN 2 IN. (LESS THAN 50 MM)	0 - 10

ARTICULATED CONCRETE BLOCK (ACB) CHUTE

ALL ACB MATS SHALL BE PREFABRICATED AS AN ASSEMBLY OF CONCRETE BLOCKS HAVING SPECIFIC HYDRAULIC CAPACITIES, AND LACED WITH REVETMENT CABLES. THI ACB SYSTEM MAY ALSO BE ASSEMBLED ON-SITE BY HAND-PLACING THE INDIVIDUAL UNITS EITHER WITH OR WITHOUT SUBSEQUENT INSERTION OF CABLES. INDIVIDUAL UNITS IN THE SYSTEM SHALL BE STAGGERED AND INTERLOCKED FOR ENHANCED STABILITY THE MATS SHALL BE CONSTRUCTED OF AS SHOWN ON THE CONTRACT DRAWINGS.

CASTING: THE ACB UNITS SHALL BE PRODUCED USING A DRY CAST METHOD. DRY CAST UNITS OBTAIN STRENGTH MORE QUICKLY THAN WET CAST BLOCKS, AND WILL ALSO ACHIEVE A GREATER UNIFORMITY OF QUALITY AND GREATER DURABILITY.

PHYSICAL REQUIREMENTS: AT THE TIME OF DELIVERY TO THE WORK SITE, THE ACB UNITS SHALL CONFORM TO THE PHYSICAL REQUIREMENTS PRESCRIBED IN TABLE LISTED BELOW.

COMPRESSIVE STI MIN	RENGTH NET AREA I. psi	WATER AB MAX.	SORPTION Ib/ft ³
AVG. OF 3 UNITS	INDIVIDUAL UNIT	AVG. OF 3 UNITS	INDIVIDUAL UNIT
4,000	3,500	9.1	11.7

ARTICULATING CONCRETE BLOCKS (ACB'S) SHALL BE ARMORFLEX BLOCK AND A HALF AS MANUFACTURED AND SOLD BY:

ARMORTEC, A CONTECH COMPANY

9025 CENTRE POINTE DR., SUITE 400, WEST CHESTER, OH 45269 PHONE: 1-800-645-7000, FAX: 1-513-645-7993

THE SELECTED ARMORFLEX BLOCKS (OR APPROVED EQUAL) SHALL HAVE TH FOLLOWING NOMINAL CHARACTERISTICS:

CL 499	TVDE	MIN. WEIGHT		BLOCK SIZE		OPEN
CLASS		(LBS)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	AREA %
85 BAAH	CLOSED	135	17.4	15.5	8.5	10

_	MOVE YOUR ENVIRONMENT FORWARD 197 SCOTT SWAMP ROAD FARMINGTON CT 06032									RD
	FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM									
2										
C				N() DF	RTH	H			
		C [10)'	2	20'		
	REVISIONS	D. DATE DESCRIPTION	01/14/2018 REVISED PER DEEP COMMENTS	06/18/2019 REVISED PER DEEP COMMENTS	09/18/2019 REVISED PER DEEP COMMENTS	11/05/2019 REVISED PER DEEP COMMENTS				
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SHEET 02 OF 12





1. RIPRAP REMOVED MAY BE REUSED ON SITE FOR SLOPE PROTECTION AND/OR OUTLET PROTECTION MATERIAL OR BURIED ON PORTIONS DOWNSTREAM OF SLOPE AWAY FROM

2. SAWCUT AND REMOVE THE BITUMINOUS CONCRETE PAVEMENT TO THE EXTENTS NECESSARY TO REMOVE THE TOP OF THE CONCRETE CHANNEL LOCATED BENEATH THE NORTH STREET

3. REMOVE THE EXISTING CONCRETE CHANNEL IN ITS ENTIRETY BEGINNING AT THE SOUTHERN EDGE OF THE NORTH STREET ROADWAY, TO ITS DOWNSTREAM OUTLET.

4. REMOVE THE TOP OF THE EXISTING CONCRETE CHANNEL TO THE EXTENTS NECESSARY TO ACCESS THE EXISTING 12" PVC PIPE AND INSTALL THE PIPE CONNECTION SHOWN ON SHEET

5. UTILITY POLES #1669 AND #1670 SHALL BE REMOVED AND RELOCATED BY THE RESPECTIVE UTILITY OWNER/COMPANY. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH

6. REMOVE EXISTING GUIDE RAIL (POSTS AND RAILS)ALONG SOUTHERN EDGE OF NORTH STEET. RAIL SECTIONS IN GOOD CONDITION (EITHER BENT NOR BROKEN), SHALL BE SALVAGED AND APPROPRIATELY STORED FOR REUSE. DAMAGED RAIL SECTIONS AND ALL POSTS SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

7. REMOVE DAMAGED (BENT OR BROKEN) SECTIONS OF POSTS AND RAILS. CONTRACTOR SHALL

8. REMOVE METAL BEAM RAIL AND POSTS AS REQUIRED TO INSTALL THE 1' X 10' BOX CULVERT.

LEGEND EXISITNG



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SHEET 04 OF 12



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LEGEND EXISITNG RIGHT OF WAY LINE ------ PROPERTY LINE EDGE OF WATER/WATERLINE WETLANDS LIMITS ပ် ——————————— METAL BEAM GUIDERAIL WOOD FENCE

UTILITY POLE

- R-B 350 TERMINAL END SECTION - COLUMN RОСК —∕ 4161

1. LOCATION OF UTILITY POLES DEPICTED HEREON ARE APPROXIMATE. FINAL LOCATION WILL BE DETERMINED BY THE UTILITY OWNER/COMPANY AND COORDINATE BETWEEN THE CONTRACTOR AND THE UTILITY



- 1. ELEVATIONS ARE GIVEN TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- 2. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- 3. CLEANOUTS AND MANHOLE COVERS SHALL BE SET 6" ABOVE FINISHED
- 4. REINFORCED PRECAST CONCRETE BOX CULVERT SHALL BE DESIGNED TO MEET HS20-44 LOAD RATING.



NORTH					
REVISIONS NO. DATE DESCRIPTION 1 01/14/2018 REVISED PER DEEP COMMENTS 2 06/18/2019 REVISED PER DEEP COMMENTS ER: 4 11/05/2019 REVISED PER DEEP COMMENTS CE 1 09/18/2019 REVISED PER DEEP COMMENTS CE 2 09/18/2019 REVISED PER DEEP COMMENTS					
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D F SPA					
CEDAR LAKE DAM (#16603) DAM & ROADWAY IMPROVEMENTS TOWN OF WOLCOTT 10 KENEA AVENUE WOLCOTT, CONNECTICUT					
GRADING & DRAINAGE PLAN					
SHEET NO.					





Deve your environment forward 197 SCOTT SWAMP ROAD FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM INDRTH 0 10' 20'						D			
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SOIL EROSION AND SEDIMENT CONTROL PLAN									
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SEDIMENTATION AND EROSION CONTROL PLAN

GENERAL

THE PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACITIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTUBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE A SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

REFERENCE IS MADE TO THE 2002 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", AS AMENDED. THE GUIDELINES ARE OBTAINABLE FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OFFICE BUILDING, HARTFORD, CONNECTICUT, AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO TRENCHING OR OTHER OPERATION, AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E. HAY BALES AND/OR GEOTEXTILE).

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH JUTE MESH EROSION PROTECTION. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AS REQUIRED UNDER TURF ESTABLISHMENT.

EROSION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM - THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF GEOTEXTILE BARRIER FENCE OR STACKED HAY BALES AND SILT SACKS AT CATCH BASINS.

GEOTEXTILE BARRIER FENCE - THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLAND AREAS, OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FOR THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM AREAS IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

STACKED HAY BALES - HAY OR STRAW BALES USED FOR EROSION CONTROL SHALL BE PLACED AS INDICATED ON THE PLANS, STACKED AT CATCH BASINS WHERE SEDIMENT MAY ENTER THE CATCH BASINS, OR AS DIRECTED BY THE RESIDENT ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE BUILT OR PAVED ON. HAY OR STRAW BALES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. EROSION CHECKS ARE TO REMAIN IN PLACE AND MAINTAINED TO ENSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

SILT SACKS - INSTALL AND MAINTAIN PER MANUFACTURER'S RECOMMENDATIONS.

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABLIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

SEDIMENTATION AND EROSION CONTROL MAINTENANCE PROCEDURES

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A WEEKLY BASIS, AND FOLLOWING ALL STORMS, BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE ENGINEER. THIS WORK SHALL BE PERFORMED WITH 24 HOURS OF THE REQUEST AND THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES AT THE COMPLETION OF CONSTRUCTION, AND AS REQUESTED BY THE ENGINEER TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION. THE CONTRACTOR SHALL SWEEP ADJACENT ROADWAYS AS REQUIRED OR REQUESTED BY THE ENGINEER. FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

SEEDING SCHEDULE

A TEMPORARY STAND OF GRASS AND/OR LEGUMES WILL BE PROVIDED ON ALL AREAS OF THE SITE EXPOSED FOR A PERIOD GREATER THAN 1 MONTH BUT LESS THAN 12 MONTHS. REFER TO FIGURE TS-2 IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL AND SEDIMENT CONTROL FOR TEMPORARY SEEDING RATES AND DATES.

PERMANENT SEEDING FOR ESTABLISHING VEGETATION ON DISTURBED AREAS IN NON-WETLAND AREAS SHALL USE EITHER OF THE FOLLOWING MIXTURES:

SEED MIXTURE #1	LBS./ACRE	LBS./1000 SF
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
(PENNLAWN, WINTERGREEN)		
PERENNIAL RYEGRASS	5	<u>0.10</u>
(NORLEA, MANHATTEN)	45	1.00
SEED MIXTURE #2	LBS./ACRE	LBS./1000 SF
<u>SEED MIXTURE #2</u> CHEWINGS FESCUE	LBS./ACRE 35	<u>LBS./1000 SF</u> 0.80
<u>SEED MIXTURE #2</u> CHEWINGS FESCUE HARD FESCUE	<u>LBS./ACRE</u> 35 30	<u>LBS./1000 SF</u> 0.80 0.70
SEED MIXTURE #2 CHEWINGS FESCUE HARD FESCUE COLONIAL BENTGRASS	<u>LBS./ACRE</u> 35 30 5	<u>LBS./1000 SF</u> 0.80 0.70 0.10
SEED MIXTURE #2 CHEWINGS FESCUE HARD FESCUE COLONIAL BENTGRASS BIRD'S-FOOT TREFOIL	LBS./ACRE 35 30 5 10	LBS./1000 SF 0.80 0.70 0.10 0.20
SEED MIXTURE #2 CHEWINGS FESCUE HARD FESCUE COLONIAL BENTGRASS BIRD'S-FOOT TREFOIL (EMPIRE, VIKING)	LBS./ACRE 35 30 5 10	LBS./1000 SF 0.80 0.70 0.10 0.20
SEED MIXTURE #2 CHEWINGS FESCUE HARD FESCUE COLONIAL BENTGRASS BIRD'S-FOOT TREFOIL (EMPIRE, VIKING) PERENNIAL RYEGRASS	LBS./ACRE 35 30 5 10 <u>20</u>	LBS./1000 SF 0.80 0.70 0.10 0.20 <u>0.50</u>

PERMANENT SEEDING FOR ESTABLISHING VEGETATION ON DISTURBED AREAS IN WETLAND AREAS SHALL USE THE FOLLOWING MIXTURE:

NEW ENGLAND CONSERVATION WILDLIFE MIX (NEW ENGLAND WETLAND PLANTS INC) SHOULD BE USED AT A RATE OF 25 LBS/ACRE OR 1.0LB / 1,750 SF

NEW ENGLAND CONSERVATION WILDLIFE MIX

MIXTURE CONTAINS:	
BIG BLUESTEM	20%
LITTLE BLUESTEM	20%
SWITCHGRASS	20%
FOX SEDGE	10%
SILKY WILD RYE	8%
COMMON MILKWEED	5%
DEERTONGUE	5%
PENNSYLVANIA SMARTWEED	5%
PARTRIDGE PEA	4%
SILKY SMOOTH ASTER	1.5%
NODDING BUR-MARIGOLD	1.0%
FLAT TOP ASTER	0.5%
	100%







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