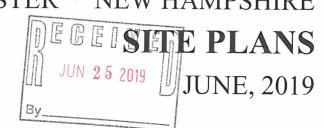
# 201 STORAGE, LLC

201 HIGHLAND STREET · ROCHESTER · NEW HAMPSHIRE



PREPARED FOR

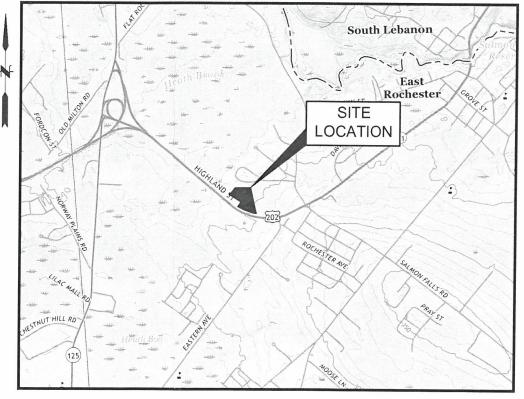
201 STORAGE, LLC

125 OCEAN ROAD
GREENLAND, NH 03840



### **SHEET INDEX**

SHEET No.	SHEET TITLE
GI-001	COVER SHEET
CN-001	LEGEND
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CS-101	SITE PLAN
CS-102	CONSTRUCTION PROTECTION SITE PLAN
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CU-101	UTILITY PLAN
CD-501	POROUS PAVEMENT DETAILS
CD-502	UTILITY DETAILS
CD-503-CD-504	EROSION CONTROL DETAILS
	LIGHTING PLAN
A 2.0	ELEVATIONS



LOCATION MAP



CONTACT DIG SAFE 72 HOURS
PRIOR TO CONSTRUCTION
THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON
THIS PLAN IS APPROXIMATE. CLD CONSULTING ENG
INC. MAKES NO CLAIM TO THE ACCURACY OF
COMPLETENESS OF UTILITIES SHOWN, 72 HOURS PRIOR
TO ANY EXCAVATION ON SITE, THE CONTRACTOR SHALL

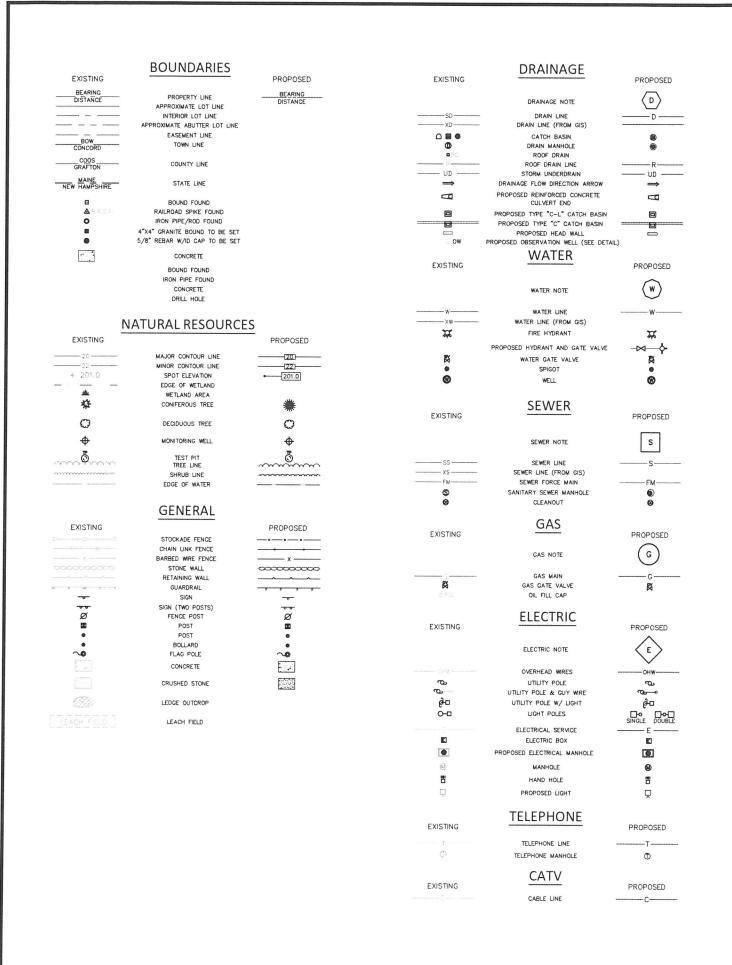


PROJ. No.: 20181369.A10
DATE: JUNE 2019

GI-001
SHEET 1 OF 14

NU\_COVUT.GWG, Layout" G1-001, Plotted: Tuesday, June 25, 2019, User: ddugal Plotter: AUTOCAD PDF (SENERAL DOCUMENTATION) PG3 GTB File: FO.STB

File Path: F:/P2018/1369\A10\DWG\20181369A10\_CO\01\_dwg\_1\_av



EXISTING	STRIPING	PROPOSED
SWL	SINGLE SOLID LINE (WHITE)	PSSL (W)
	SINGLE BROKEN LINE (WHITE)	PSBL (W)
	DOUBLE SOLID LINE (WHITE)	PDSL (W)
SNL	SINGLE SOLID LINE (YELLOW)	PSSL (Y)
	SINGLE BROKEN LINE (YELLOW)	PSBL (Y)
DYL	DOUBLE SOLID LINE (YELLOW)	PDSL (Y)
		<b>(A)</b>
	A = STOP BAR = 18" SSL (WHITE)(T)	

GENERAL PAVEMENT MARKING NOTE:
PLACEMENT AND COLOR OF PAVMENT MARKING LINES, SYMBOLS AND
WORDS SHALL CONFORM TO THE (MUTCD) SECTION 632 OF NHDOT
STANDARD SPECIFICATION BOOK, CONTRACT SUPPLEMENTAL
SPECIFICATIONS, THE STATE OF NEW HAMPSHIRE PAVEMENT MARKING
STANDARD DETAIL SHEETS, AND STANDARD PLAN SHEETS.

RETROREFLECTIVE PAINT PAYMENT MARKING KEY:
THE FOLLOWING PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE
THERMOPLASTIC UNLESS OTHERWISE NOTIFIED BY THE STATE STANDARD SYMBOLS AND WORDS

**√**--WORDS A = STOP BARS = 18" SSL (WHITE)(T)

Ġ.	ACCESSIBLE PARKING SPACE	d
	PAINTED ISLAND	
	PARKING SPACE COUNT	10

### **EROSION CONTROL**

PROPOSED SILT FENCE	SF
PROPOSED HAY BALES	<sup>™</sup>
PROPOSED HAYBALE CHECK DAM	
PROPOSED SILT SOCKS	0 0
PROPOSED EROSION CONTROL MAT	***************************************
PROPOSED INLET PROTECTION	$\bigcirc$
PROPOSED OUTLET PROTECTION	
PROPOSED STONE CHECK DAM	
PROPOSED LIMIT OF DISTURBANCE	LOD

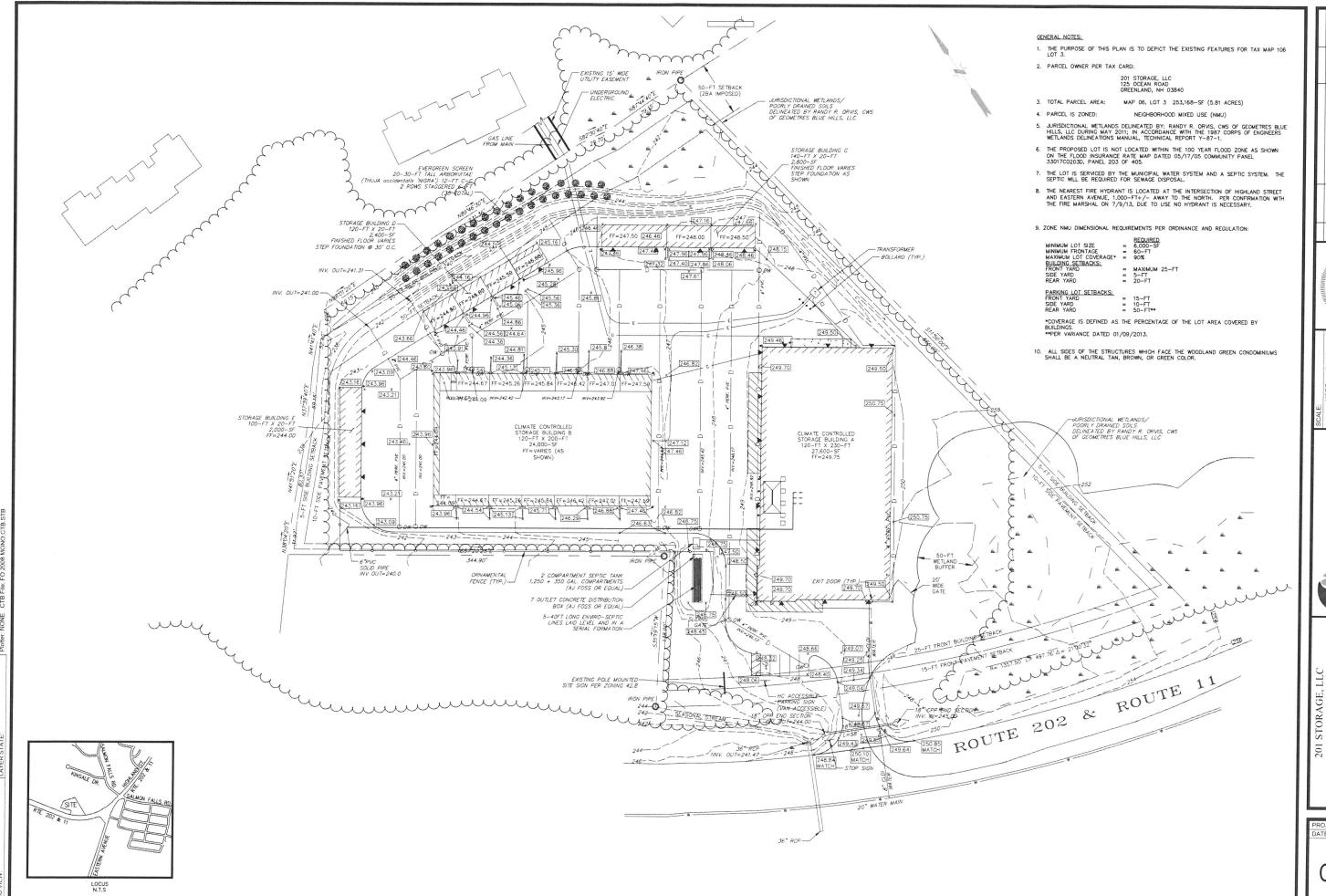
FUSS & O'NEILL

TAX MAP 106 LOT STORAGE, LL LEGEND

PROJ. No.: 20181369.A10 DATE: 06/25/19

CN-001

SHEET 2 OF 14



FUSS & O'NEILI



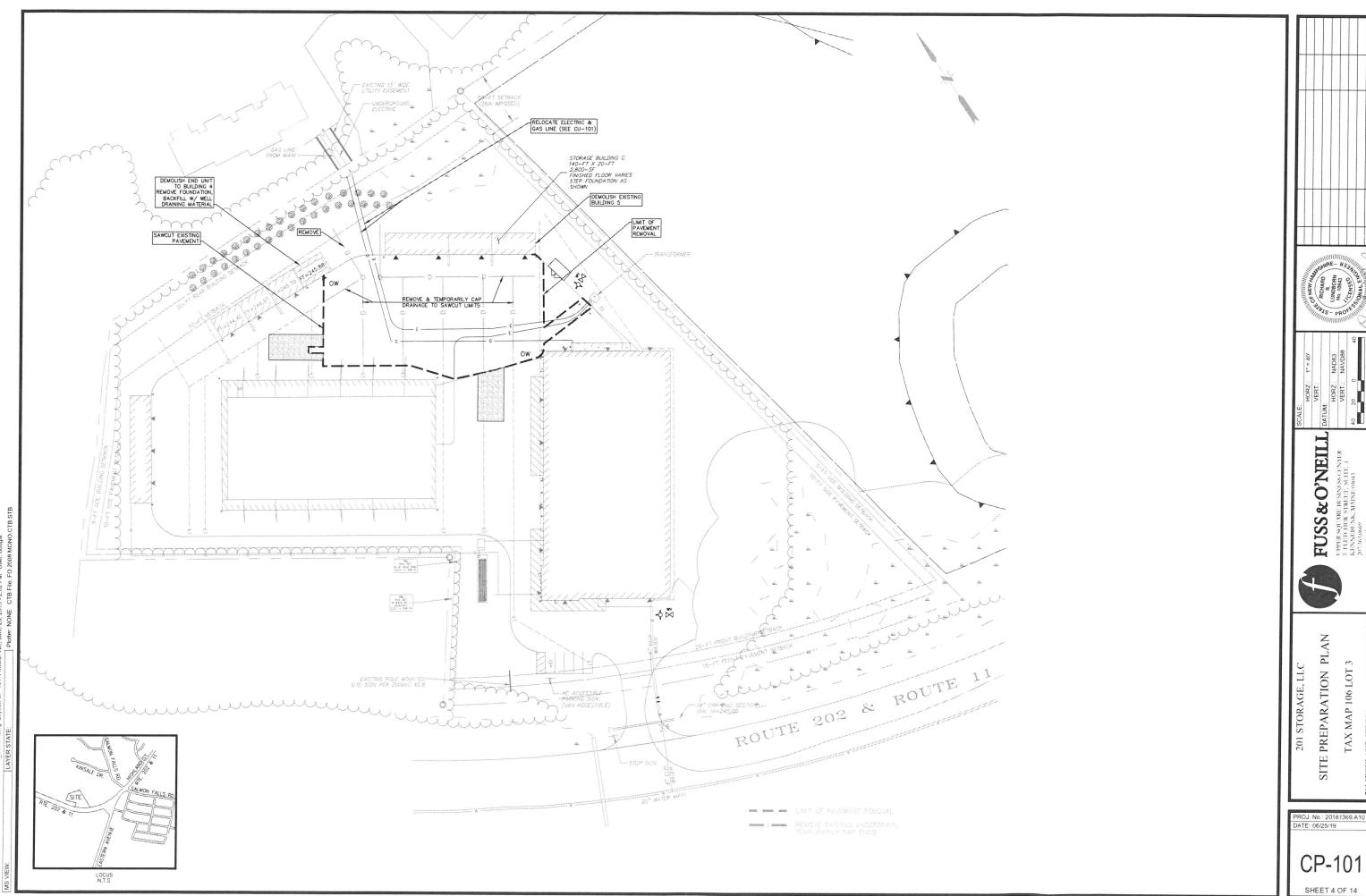
PLAN

AS-BUILT EXISTING CONDITIONS

OJ. No.: 20181369.A10 DATE: 06/25/19

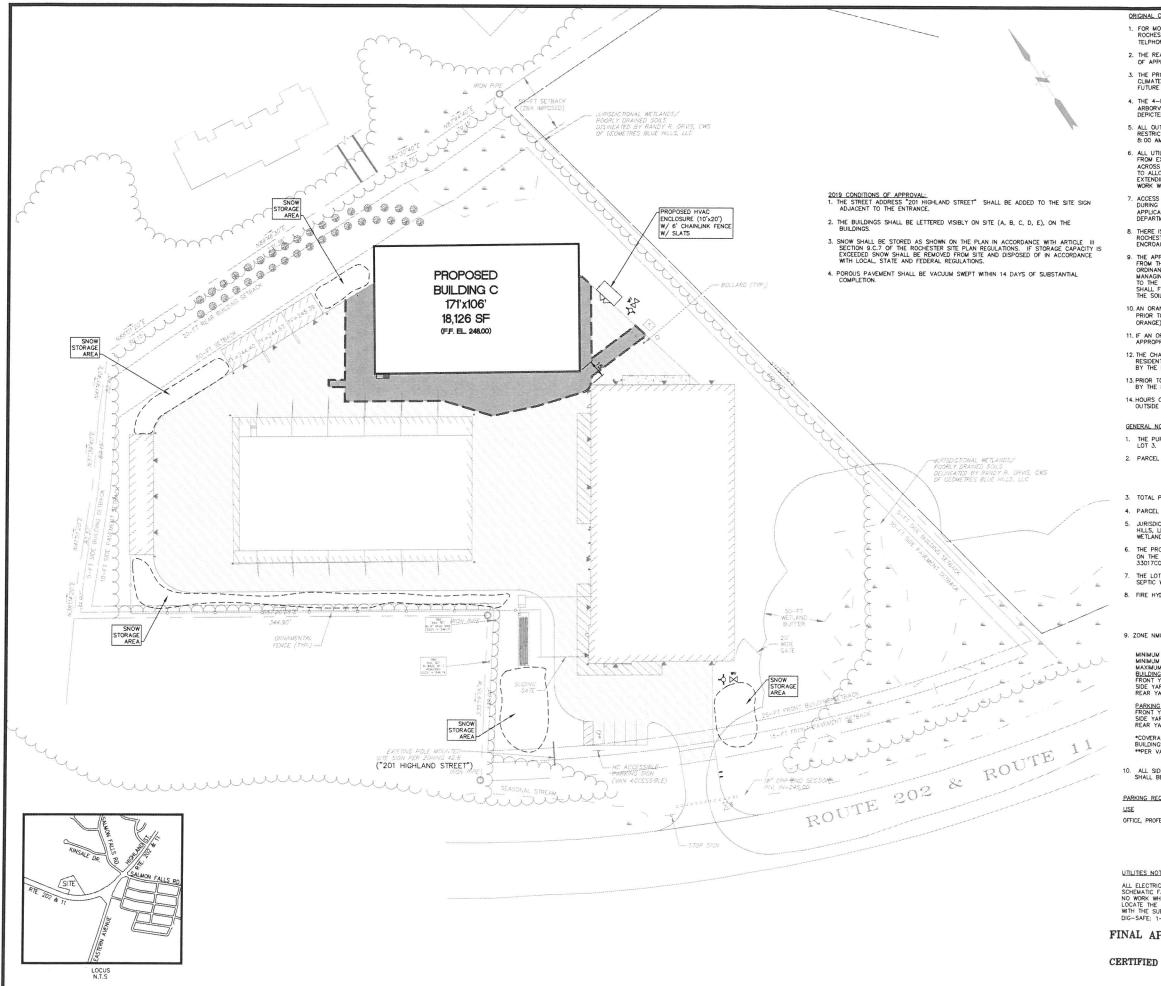
CS-100

SHT 3 of 14



TAX MAP 106 LOT 3

CP-101



ORIGINAL CONDITIONS OF APPROVAL NOTES

- FOR MORE INFORMATION REGARDING THIS SITE PLAN, PLEASE CONTACT THE CITY OF ROCHESTER, PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867, TELPHONE: (603) 335-1338.
- THE REAR SETBACK TO BOTH BUILDINGS AND PAVEMENT IS 50-FT PER THE CONDITIONS OF APPROVAL OF THE VARIANCE ALLOWING MINI-STORAGE GRANTED 01/09/13.
- 3. THE PROJECT IS PROPOSED TO BE CONSTRUCTED IN 2 PHASES. PHASE 1 IS THE FIRST CLIMATE CONTROLLED BUILDING WITH 5 SMALLER BUILDINGS AND PHASE 2 WILL BE THE FUTURE CLIMATE CONTROLLED BUILDING.
- THE 4-FT TALL LANDSCAPE BERM AND THIRTY-FIVE (35) SIX (6) FOOT TALL ARBORVITAE IN TWO (2) STAGGERED ROWS SHALL BE INSTALLED IN PHASE 1 AS DEPICTED ON SHEET C-1 AND C-2.
- 5. ALL OUTSIDE CONSTRUCTION ACTIVITY RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY AND 8:00 AM TO 6:00 PM SATURDAY.
- 6. ALL UTILITIES MUST BE UNDERGROUND, INCLUDING UTILITIES EXTENDED ONTO THE SITE FROM EXISTING POLES NEAR THE SITE. HOWEVER, IF THE ONLY POLE NEARBY IS ACROSS THE SITEET, ONE ADDITIONAL POLE MAY BE PLACED ON/NEAR THE PROPERTY TO ALLOW FOR OVERHEAD EXTENSION OF WRES ACROSS THE SIREET. UTILITIES EXTENDING FROM ANY SUCH NEW POLE MUST BE UNDERGROUND. THE APPLICANT MAY WORK WITH CITY STAFF AS APPROPRIATE TO ADDRESS THIS REQUIREMENT.
- 7. ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE RIFE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
- 8. THERE IS A 50-FT BUFFER REQUIREMENT FROM WETLANDS UNDER THE CITY OF ROCHESTER ZONING ORDINANCE AS SHOWN ON THIS PLAN. THERE MAY BE NO ENGROACHMENT WITHIN THESE BUFFERS EXCEPT AS PERMITTED UNDER THE ORDINANCE.
- 9. THE APPLICANT SHALL, IF APPLICABLE, OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT AND FOLLOW THE REQUIREMENTS OF CITY ORDINANCE CHAPTER SO. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE THE SOIL HAS BEEN DISTURBED.
- 10. AN ORANGE CONSTRUCTION FENCE MUST BE PLACED ALONGSIDE THE WETLAND BUFFER PRIOR TO THE START OF CONSTRUCTION (THIS IS NOT REQUIRED IF THE SILT FENCE IS
- 11. IF AN OFFICE IS TO BE BUILT IN THE FUTURE, IT WILL NEED TO BE APPROVED BY THE APPROPRIATE CITY OF ROCHESTER OFFICIALS.
- 12. THE CHAIN LINK FENCE SHALL HAVE GREEN SLATS WHERE THE FENCE ABUTS RESIDENTIAL PROPERTIES OR ALONGSIDE THE ENTIRE LENGTH OF FENCING AS APPROVED BY THE PLANNING BOARD.
- 13. PRIOR TO EACH PHASE, A PRE-CONSTRUCTION MEETING AGREEMENT IS TO BE SIGNED BY THE PROPERTY OWNER AND A PRE-CONSTRUCTION MEETING IS TO BE HELD.
- 14. HOURS OF OPERATION ARE RESTRICTED TO 6:00AM TO 9:00PM WITH OCCASIONAL USE OUTSIDE THOSE HOURS BY APPOINTMENT ONLY.

### GENERAL NOTES:

- THE PURPOSE OF THIS PLAN IS TO DEPICT THE PRPOSED LAYOUT FOR TAX MAP 106 LOT 3.
- 2. PARCEL OWNER PER TAX CARD:

201 STORAGE, LLC 125 OCEAN ROAD GREENLAND, NH 03840

- 3. TOTAL PARCEL AREA: MAP 06, LOT 3 253,168-SF (5.81 ACRES)
- 4. PARCEL IS ZONED: NEIGHBORHOOD MIXED USE (NMU)
- JURISDICTIONAL WETLANDS DELINEATED BY: RANDY R. ORVIS, CWS OF GEOMETRES BLUE HILLS, LLC DURING MAY 2011; IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.
- THE PROPOSED LOT IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 05/17/05 COMMUNITY PANEL 33017C0203D, PANEL 203 OF 405.
- THE LOT IS SERVICED BY THE MUNICIPAL WATER SYSTEM AND A SEPTIC SYSTEM. THE SEPTIC WILL BE REQUIRED FOR SEWAGE DISPOSAL.
- 8. FIRE HYDRANTS TO BE INSTALLED AS SHOWN PER REVIEW OF THE FIRE DEPARTMENT.
- 9. ZONE NMU DIMENSIONAL REQUIREMENTS PER ORDINANCE AND REGULATIONS

MINIMUM LOT SIZE = 6,000-SF
MINIMUM FRONTAGE = 6,000-SF
MAXIMUM LOT COVERAGE\* = 90%
BUILDING SETBACKS:.
FRONT YARD = 5-FT
REAR YARD = 5-FT
REAR YARD = 20-FT = MAXIMUM 25-FT = 5-FT = 20-FT PARKING LOT SETBACKS: FRONT YARD

\*COVERAGE IS DEFINED AS THE PERCENTAGE OF THE LOT AREA COVERED BY \*\*PER VARIANCE DATED 01/09/2013.

ALL SIDES OF THE STRUCTURES WHICH FACE THE WOODLAND GREEN CONDOMINIUMS SHALL BE A NEUTRAL TAN, BROWN, OR GREEN COLOR.

USE	OFFICE AREA	REQUIRED
OFFICE, PROFESSIONAL	1,200-SF	1 SPACE/250-SF = 4.8 SPACES
	**********************	*******************************
	TOTAL REQUIRED	5 SPACES
	TOTAL PROVIDED	5 SPACES

ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSDEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATION FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE: 1-888-DIG-SAFE (1-888-344-7233)

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

CERTIFIED BY	DATE
--------------	------

				DESIGNER REVIEWER
				DESIGNER
				DESCRIPTION
				DATE
T				A.2.



NAD83 NAVD88 DATUM

O'NEILL 8

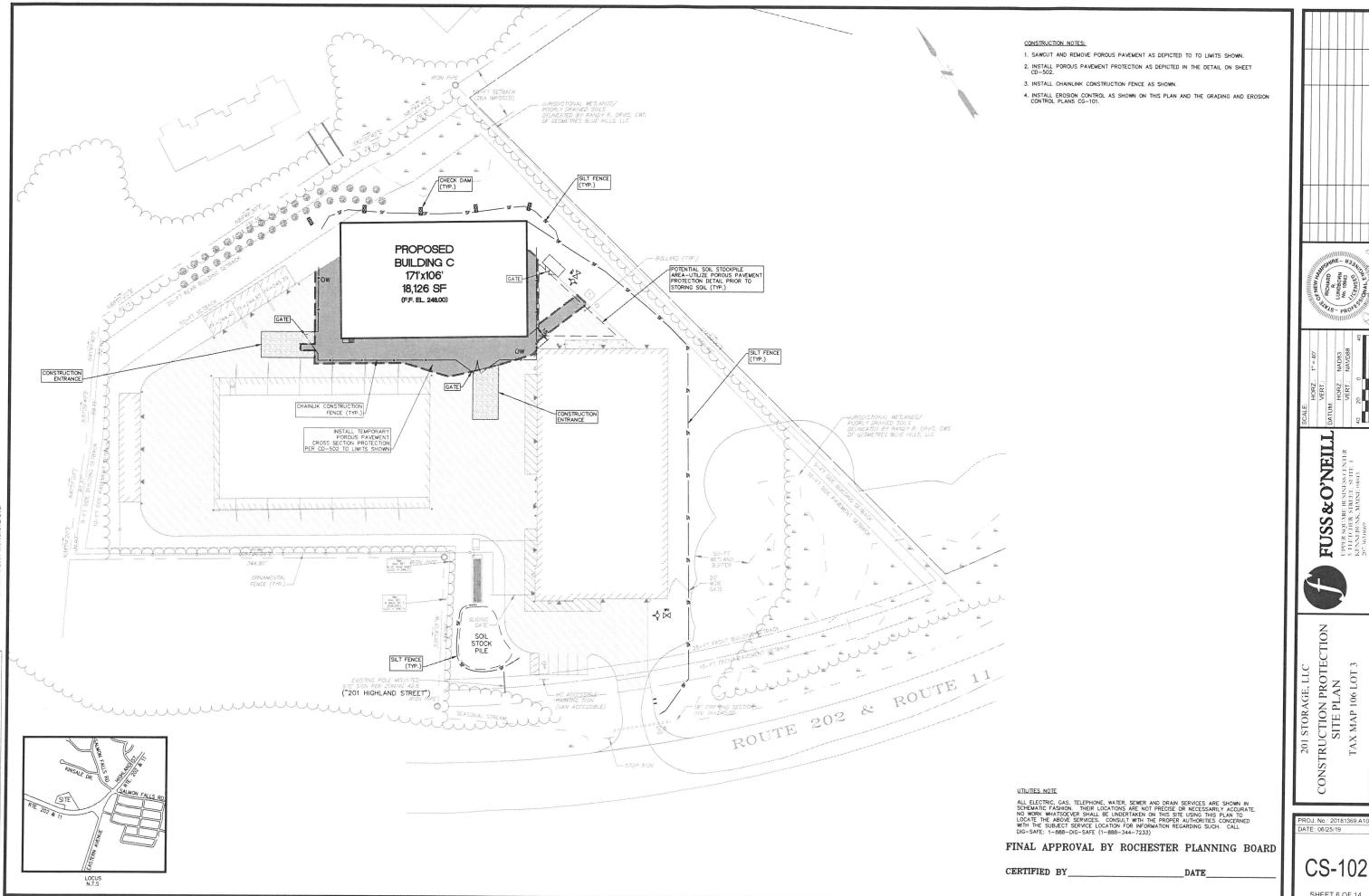


STORAGE

PLAN TAX MAP 106 SITE

OJ. No.: 20181369.A10 DATE: 06/25/19

CS-101



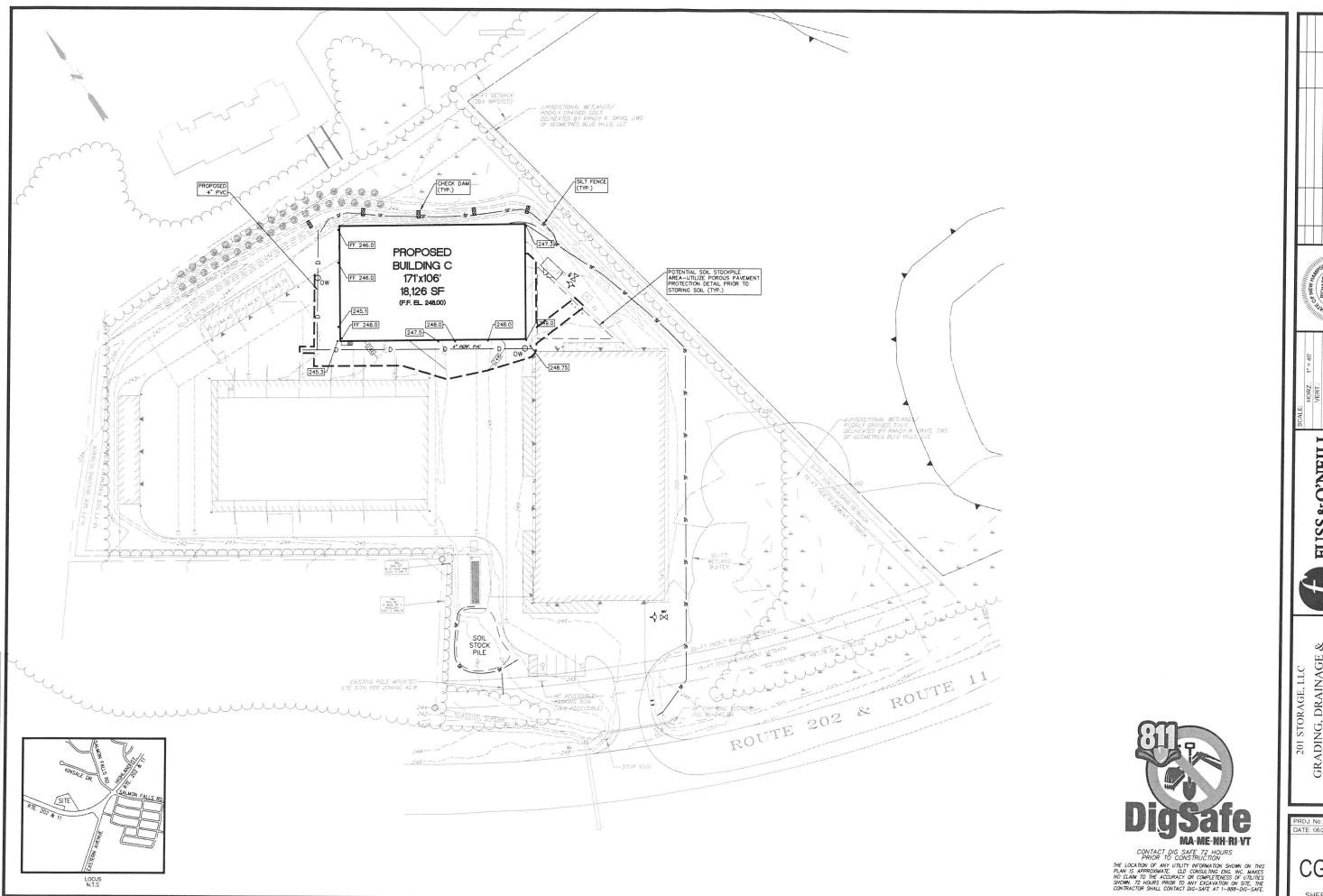


FUSS & O'NEILL



CONSTRUCTION PROTECTION SITE PLAN TAX MAP 106 LOT 3

PROJ. No.: 20181369.A10 DATE: 06/25/19



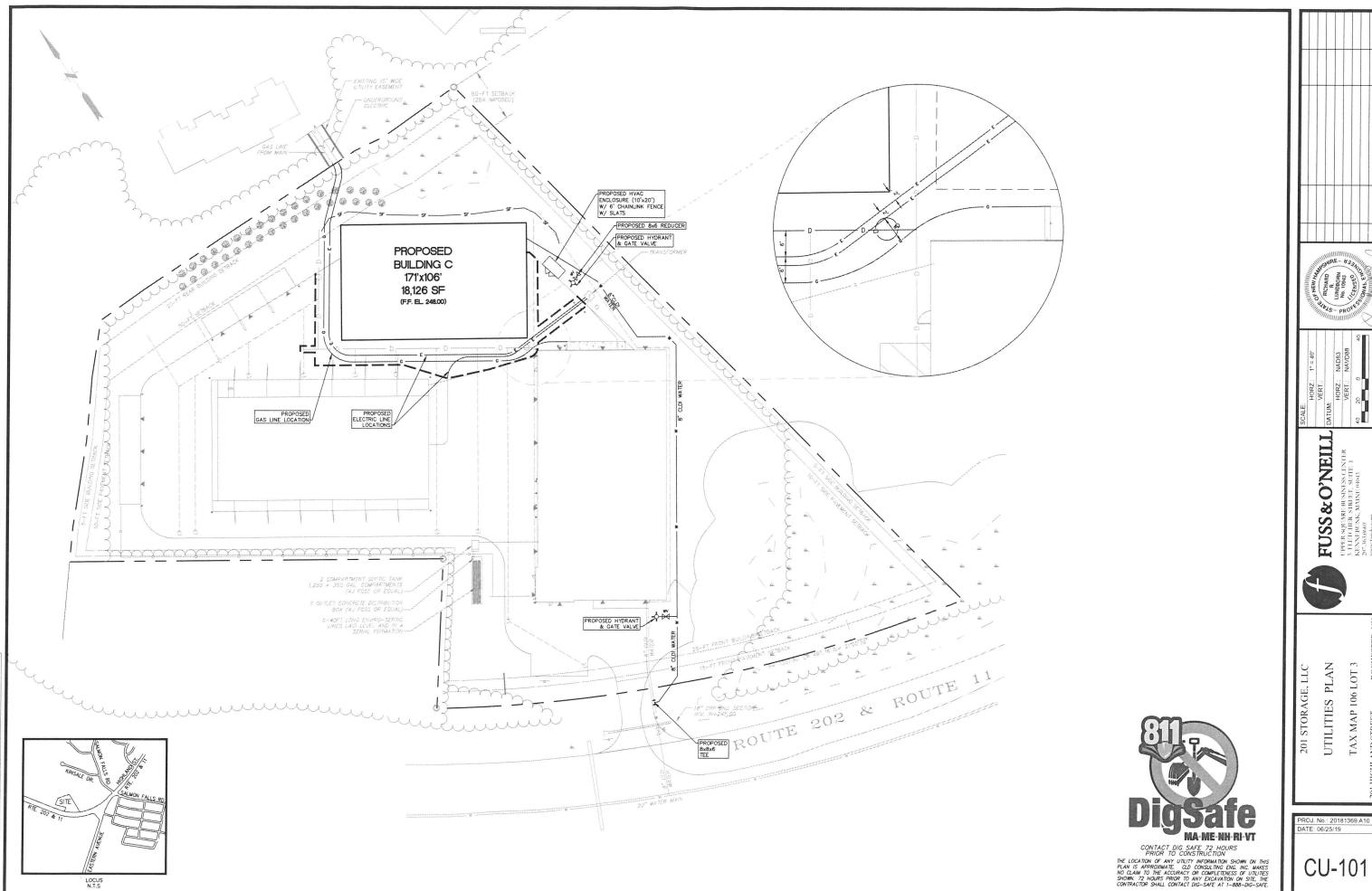
FUSS & O'NEILL

GRADING, DRAINAGE & EROSION CONTROL PLAN TAX MAP 106 LOT 3

PROJ. No.: 20181369.A10 DATE: 06/25/19

CG-101

SHEET 7 OF 14



LOCUS N.T.S

TAX MAP 106 LOT 3

CU-101

SHEET 8 OF 14

NOT TO SCALE

NOT TO SCALE

POROUS PAVEMENT NOTES

THE MOST CURRENT SPECIFICATION FOR POROUS ASPHALT PAVEMENT AND THE MOST CURRENT SPECIFICATION FOR POROUS ASPHALT PAVENUE INFORMATION CONTER WEBSITE; HTTP://WWW.INH-EDU/ERG/CSTEV/PUBS\_SPECS\_JNFO.HTM, SHALL BE CONSIDERED PART OF THIS DESIGN DEVIATIONS FROM THAT SPECIFICATION OTHER THAN THOSE PRESENT IN THE DETAILS ON THIS SHEET SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL

2. ALL MATERIAL TO BE INSTALLED SHALL MEET THE SPECIFICATIONS ALL MATERIAL TO BE INSTALLED SHALL MELT THE SMEDISCRIPTION SOUNDS IN THE LIGHT STORMER SPECIFICATIONS FOUND IN THE ABOVE WER ADDRESS AND BE FREE OF UNSUITABLE MATERIALS SUCH AS SULT, CLAY, OPCIANCE MATERIAL, ROCKS LARGER THAN THE AGGREGATE SPECIFIED IN THE GRADATIONS, ETC.

ONCE THE AREA FOR THE POROUS PAVEMENT HAS BEEN PREPARED TO SUBGRADE, LINE THE SIDES OF THE EXCAVATION THAT WILL BE EXPOSED TO NATIVE MATERIALS OR MATERIALS USED FOR SLOPE FILL WITH FILTER

TO MATINE WATERNALS ON MATERIALS USED FOR SLOPE FILL WITH FILTER FARRIC, MIRATI RED ON.

NISTRALI PATER FARRIC DIVER THE AFREA OF METLIAND SOLES OR POOR SOLE CONTINUES ONLY.

DO NOT LINE THE REMAINING BOTTOM OF THE PORQUE PARAMENT AREA, SUCH CONDITIONS SHALL BE DETERMINED BY THE CONTRACTOR AND DESIGN ENGINEER.

INSTALL FILTER FABRIC ON SIDES OF POROUS PAVEMENT AREA AS SHOWN IN THE DETAIL OVERLAP FILTER FABRIC 16 -- INCHES

AS SHOWN IN THE DETAIL OVERLAP FILTER FABRIC 16--MIC WHERE JOINT ARE NECESSARY.
FOLD 4--FT OF FABRIC OUT OVER FILL SLOPES DURING CONSTRUCTION OF THE POROUS WEDA RED TO UNIT INTERCOLONO OF SEDIMENT AND IMPRIEST OF THE FILTER. ONCE THE FILTER MATERIAL IS PLACED THROUGH THE CHOKER COURSE FOLD THE 4--FT OVERLAP OVER THE FILTER MATERIA TO PROTECT IT FROM SEDIMENT AND IMPURITIES UNTIL THE

TO PROTECT IT PROM SCOMENT AND IMPURITIES UNTIL TO PAYMENT IS PALACID.

DO NOT PLAKE OVER THE FILTER FARRIC.
FOLD OWERLAP OVER THE FILTER FARRIC.
FOLD OWERLAP OVER PAYMENT UNTIL VECKTATION IS
ESTABLISHED ADJACENT SCOPE AREAS. REMOVE
OVERLAPPING FARRIC OWER, VEGETATION IS ESTABLISHED. ELIMINATING THE THREAT OF DIRT AND OTHER MATERIALS MIGRATING ONTO THE PAVEMENT FROM THE LOAMED AREAS.

INSTALL RESERVOIR COURSE NATERIAL (AASHTO NO 3 OR AASHTO NO 5) IN AREA WERE CALLED FOR IN MAXINUE IN INCLUDING UP A ASSISTANT IN AREAS WERE CALLED FOR IN MAXINUE IN OUR LITES AND COMES SECTIONS.

1935 MAXINUM PROCIOR DENSITY TO THE DEPTHS SPECIFIED IN THE TYPICAL ROSS SECTIONS.

RESERVOR. COURSE LARSHTO. NO. 3). CRADING REQUIREMENTS.

	PERCENTAGE BY WEIGHT
SIEVE DESIGNATION:	SQUARE MESH SIEVE:
2~~1/2 INCH	100%
2 INCH	90++100%
11/2 INCH	35~70%
1 INCH	D-15%
1/2 INOH	055

### PERCENTAGE BY WEIGHT SIEVE DESIGNATION SQUARE WESH SIEVE:

INSTALL FILTER BLANKET MATERIAL (3/8" PEA STONE: D50 = 3/8") IN AREAS WHERE CALLED FOR IN MAXIMUM 3 INCH LIFTS AND COMPACT TO 95% MAXIMUM PROCTOR DENSITY TO THE DEPTHS SPECIFIED IN THE TYPICAL CROSS SECTIONS.

INSTALL FILTER COURSE MATERIAL (HEM 304.1 SAND) IN AREAS WHERE CALLED FOR IN MAXIMUM 6 INCH LIFTS AND COMPACT TO 93% MAXIMUM PROCTOR DENSITY TO THE DEPTHS SPECIFIED IN THE TYPICAL CROSS

FILTER COURSE NHDOT ITEM 304.1 MODIFIED (SAND) GRADING REQUIREMENTS:

	PERCENTAGE BY WEIGHT
SIEVE DESIGNATION:	SQUARE MESH SIEVE:
6 INCH	100%
NO. 4	70100%
NO .200	0~~6%

INSTALL CHOKER COURSE (AASHTO NO.57) IN AREAS OF POROUS INSTALL CHOICE COURSE (AASHTO NO.57) IN AREAS OF POROUS PAYEMENT AS DEPICTED IN THE CROSS--SECTION, COMPACT TO 95% MAXIMUM PROCTOR DENSTY. CHOICE, COURSE IASSHTO, NO., 57). GRADING REQUIREMENTS.

	PENCENTAGE BY WERSHI
SIEVE DESIGNATION:	SQUARE MESH SIEVE:
11/2 INCH	100%
1 INCH	95~~100%
1/2 INOH	25~60%
NO. 4	0~10%
NO. 8	0-5%
CHOKER COURSE COMMONLY F	REFERED TO AS WASHED 3/4

PORQUE ASPHALT MIX SPECIFICATION.

SIEVE DESIGNATION

THE MOST CURRENT SPECIFICATION FOR POROUS ASPHALT PRODUCED BY THE UNH STORMWATER CENTER SHALL BE USED FOR THE POROUS

PERCENTAGE BY WEIGHT

SQUARE MESH SIEVE:

PARKENT,

ALTERNATIVE SPECIFICATIONS ARE ACCEPTABLE, MOST NOTABLY A NUMBER
OF LOCALE MIX PLANTS PRODUCE PORDUS ASPIRALT WITH FIBER
REMONEDURIN IN LIQU OF THE LUGID ADDITIVES SPECIFICE BY THE
STORMARTE CENTRE. IN THE EVENT HA, A LITERALTIVE SPECIFICATION IS
TO BE USED IT SHALL BE SUBMITTED TO THE DESIGN ENGREER FOR

ALL POROUS ASPHALT SPECIFICATIONS SHALL MEET THE AIR VOIC CONTENT BY CORELOK (ASTM D6752), AIR VOID SHALL BE BETWEEN

3/4 INCH	100%	
1/2 INCH	85~100%	
3/8 INCH	55~75%	
NQ.4	10-25%	
NO. 8	55-10%	
NO. 200	2-4%	
HALT CRITCRIA-		

ASPHALT CRITERIA: BINDER CONTENT (AASHTO T164) AIR VOID CONTENT BY CORELOK (ASTM D6752) 16-20% AIR VOID CONTENT BY PARAFFIN WAX (AASHTO 1275)\* RETAINED TENSILE STRENGTH (AASHTO 283)\*

\*EITHER METHOD IS ACCEPTABLE \*\*CELLULOSE OR MINERAL FIBERS MAY BE USED TO REDUCE DRAINDOWN

\*\*\*F TSR (RETAINED TENSILE STRENCTH) VALUES FALL BELOW BOX WHEN SO (RELINELL EISSELS STREEMIN) VALUES FALL BELOW BOX WHEN INSTEED BY NASH IS 131 (WITH A SINGLE FRIEZE IT HANK CYCLE BRITHER THAN 5). THE CONTRACTOR SHALL EMPLOY AN ANTI STRIP ADDITIVE, SUCH AS HURRAFED LIME (ASTM C977) OR A FATTY AMINE, TO RAISE THE TER VALUE ABOVE BOX.

THE DESIGN ENGINEER SHALL BE CONTACTED AND BE PRESENT FOR THE INSTALLATION OF EACH LAYER OF THE POROUS PAVEMENT SECTIONS TO INSURE THAT THE SUB--BASE, BANK RUN GRAVEL AND CHOKER COURSES ARE NOT OVER COMPACTED.

TRANSTER OF CHMERSHE!

I. IN THE EVENT THE SITE IS SOLD TO ANOTHER PARTY, THAT NEW PARTS SHOULD BE MADE AWARD OF THE POROUS EXAMENT, ITS PURPOSE AND SPECUL MAINTENANCE REQUIREMENTS. THIS NOTIFICATION SHOULD BE DONE BOTH IN WRITING WITH THE INCLUSION OF A COPY OF THESE DESIGN MATERIALS AND VERBALLY

PLAN SETS AND OTHER INFORMATION ON THIS DESIGN CAN BE

FUSS & ONEILL SUITE 1 - LIBBY HOUSE 5 FLETCHER STREET KENNEBUNK, ME 04043 PHONE: 207--363--0669

EMAIL: BLUNDBORN OF ANDO, COM EQUIPMENT NOTES:

HAULING EQUIPMENT:

1. THE OPEN GRADED MIX SHAUL BE TRANSPORTED IN CLEAN VEHICLES WITH TIGHT, SMOOTH DUMP BEDS THAT HAVE BEEN SPRAYED WITH A NON--PETROLEUM RELEASE AGENT OR SOAP SOLUTION TO PREVENT THE MIX FROM ADHERING TO THE DUMP BODIES.

MAY FROM ADVERNIG TO THE DAMP BODIES.

MINERAL FLIET, FINE AGORECATE, SLAG DUST, ETC. SHALL NOT BE USED TO DUST TRUCK BEDS.

THE OPPN CRADED MIX SHALL BE COVERED DURNO TRANSPORT WITH A STATEMENT MATERIAL PROPERTY OF SUCH SEZ SUFFICIORY TO PROTECT THE MIX FROM THE MEATHER AND ALSO TO MINIMAZE COOLING AND PREVENT LUMPS. WHEN NECESSARY, TO ENSURE THE DELIVERY OF MATERIAL AT THE SPECIFIED TEMPERATURE, THE TRUCK BODIES SHALL BE INSULATED AND

LONG HAULS, ESPECIALLY THOSE IN EXCESS OF 25 MILES MAY RESULT IN SEPARATION OF THE MIX AND ITS REJECTION

ELADING\_EXPRISION OF THE MIX AND ITS REJECTION.

PLACING\_EXPRISION:

THE PAYER SHALL BE A SELF-- PROPELLED UNIT WITH AN ACTIVATED SCREED OR STRIKE OFF ASSEMBLY, CAPABLE OF BEING HEATED IF NECESSARY, AND CAPABLE OF SPREADING AND FINISHING THE MIX WITHOUT SECREGATION FOR THE WOTHS AND THICKNESSES REQUIRED

IN GENERAL, TRACKED PAVERS HAVE PROVED SUPERIOR FOR PORCUS ASPHALT PLACEMENT.

COVERS SHALL BE FASTENED SECURELY.

ASSTALL FLACUUM.

THE SCREED SHALL BE ADJUSTABLE TO PROVIDE THE DESIRED

ROSS—SECTIONAL SHAPE.

THE FINISHED SHIPACE SHALL BE OF UNIFORM TEXTURE AND EVENINESS

AND SHALL NOT SHOW ANY WIDIGATION OF TEARING, SHOWING, OR PULLING OF THE MIX.

THE MACHINE SHALL, AT ALL TIMES, BE IN GOOD MECHANICAL CONDITION

AND OPERATED BY COMPETENT PERSONNEL

PAVERS SHALL BE EQUIPPED WITH THE NECESSARY ATTACHMENTS, DESIGNED TO OPERATE ELECTRONICALLY, FOR CONTROLLING THE GRADE OF ESHABLI TO OPERATE ELECTRONICALLY, FOR CONTROLLING THE GRADE OF HE FINISHED SURFACE.

THE ADJUSTMENTS AND ATTACHMENTS OF THE PAYER WILL BE CHECKED NO APPROVED BY THE ENGINEER BEFORE PLACEMENT OF ASPHALT.

PAVERS SHALL BE EQUIPPED WITH A SLOPED PLATE TO PRODUCE A TAPERED EDGE AT LONGITUDINAL JOINTS. THE SLOPED PLATE SHALL BE

TAPERE BOOK AT LINKINGTONAL JOINTS, THE SLOPED PLATE SHALL BE ATTACHED TO THE PASER SCHEEL DESTINATION.

THE SLOPED PLATE SHALL PRODUCE A TAPERED EIGHE HAVING A FACE SIGNE OF 3.1 (PROGRAFIAL METICAL.) THE PLATE SHALL BE SO CONSTRUCTED AS TO ACCOMMODATE COMPACTED MAY THROWNESS FROM 35 TO 100 MM (1) 1/4 TO 4 NORESS. THE BOSTOM OF THE SLOPED PLATE SHALL BE MICHIEF TO TO 15 MM (3/8 TO 1/2 MICH) ABOVE THE EXISTING PAVEMENT. THE PLATE SHALL BE INTERCHANGEABLE ON EITHER SIDE OF THE SCREED.

PAVERS SHALL BE EQUIPPED WITH A JOINT HEATER CAPABLE OF HEATING PAKES SHALL BE COLORED, WITH A JOINT REATTE CAPABLE OF HEATING THE LONGTUDINGLED OF THE PROPERTY FACED AND AT TO TA SURFACE TEMPERATURE OF 85 °C (200 °F), OR HOHER IF HECESSANY, TO ACHEVE BONDING OF THE NEWLY PLACED MAIN WITH THE PREVIOUSLY PLACED MAT, THIS SHALL BE COME WITHOUT LINGUE BECAUSE OF FRACTURING OF THE AGGREGATE AT THE WITEFFACE, THE TEMPERATURE SHALL BE MEASURED IMMEDIATELY BEHIND THE JOINT HEATER.

THE JOINT HEATER SHALL BE EQUIPPED WITH AUTOMATED CONTROLS THAT SHUTOFF THE BURNERS WHEN THE PAVEMENT MACHINE STOPS AND SHIDES THE BUSINESS WERE THE PAYABLEST MADERIC STOPS AND REDWIT THEM WITH THE FORWARD MOVEMENT OF THE PAPER. THE JOHN HEATER SHALL HEAT THE EXTRES AREA OF THE PREVIOUSLY PLACED WEDDE TO THE REQUIRED THEMPEATURE HEATING SHALL IMMEDIATELY PRECEDE PLACEMENT OF THE ASPHALT

ROLLING EQUIPMENT:

1. ROLLERS SHALL BE IN GOOD MECHANICAL CONDITION, OPERATED BY COMPETENT PERSONEL, CAPABLE OF REVERSING WITHOUT BACKLASH, AND OPERATED AS BY ENGLISH OF A AVOID DISPLACEMENT OF THE ASPHALT MIXTURE.

ROLLERS SHALL BE TWO --- AXLE TANDEM ROLLERS WITH A GROSS MASS (T) OF NOT LESS THAN 7 METRIC TONS (8 TONS) AND NOT MORE. THAN 10 METRIC TONS (12 TONS) AND SHALL BE CAPABLE OF PROVIDING. A MINIMUM COMPACTIVE EFFORT OF 44 KN/M (250 POUNDS PER INCH) OF WIDTH OF THE DRIVE ROLLER. ALL ROLLERS SHALL BE AT LEAST 1 M (42

ROLLERS SHALL BE EQUIPPED WITH TANKS AND SPRINKLING BARS FOR

A RUBBER TIRE ROLLER WILL NOT BE REQUIRED ON THE OPENGRADED ASPHALT FRICTION COURSE SURFACE.

POROUS PAYMENT PARRING AREA MANITONING.

1. THE POROUS PAYMENT PARRING AREA SHALL BE VACUUM SWEPT
WITH A SWEEPER TRUCK THAT HAS A VACUUM CAPABLITY
SCHI-MANUALY ONCO. THE SPRING THE LEWR LS- APRIL 30), AND
ONCO IN THE FALL (OCTOBER 15--OCTOBER 3G). THIS IS NECESSARY TO INSURE THE PROLONGED FUNCTION OF THE PAVEMENTS INFILTRATIVE CAPACITY.

IT IS RECOMMENDED THAT PLOWING BE PERFORMED BY A PLOW VEHICLE WITH A PLOW THAT HAS RUBBER BLADE EDGE. THES WELL LIMIT THE SCARRING OF THE PAYEMENT, HOWEVER, THIS IS NOT NECESSARY AND IS OPTIONAL.

SANDING FOR WINTER TRACTION OS PROHIBITED, SALTING WITH NOCI IS PROHIBITED. DE--ICING AGENTS ARE PROHIBITED DUE TO THE PROXIMITY TO THE WETLANDS AND THE USE OF METAL STORAGE

SHOW SHALL NOT BE STONED ON AREAS OF PORGUS PAVEMENT. IT SHALL BE STORED OFF OF THE PAVED AREAS TO MINIMIZE FAILURE DUE TO FREEZING WITHIN THE PAVEMENT.

REFER TO THE UNHSC WINTER MAINTENANCE FACT SHEET: HTTP: //WWW.UNH.EDU/ERC/CSTEV/PUBS\_SPECS\_INFO/WINTER\_MAINTENANCE FACT\_SHEET.PDF

ASPHALT SEAL COATING IS COMPLETELY FORBIDDEN. SURFACE SEAL COATING IRREVERSIBLY CLOGS THE PAVEMENT PORES.

PLANTED AREAS (INCLUDING LAWN) ADJACENT TO THE POROUS PAVEMENT SHOULD BE WELL MAINTAINED TO PREVENT SOIL WASHING

EDIATELY CLEAN ANY SOIL DEPOSITED ON PAVEMENT, DIRT GROUND INTO THE PORES OF THE ASPHALT CLOGS IT. THIS IS WHY TRACTOR TRAILERS AND HEAVY LOAD FIXED READ DIFFERENTIAL

CONSTRUCTION STAGING, SOIL/MULCH STORAGE, ETC. ON UNPROTECTED PAYEMENT SURFACES IS PROHIBITED.

VEHICLES ARE PROHIBITED AT THE SITE.

POTHOLES/DAMAGED AREAS OF THE POROUS ASPHALT PAVEMENT LESS THAN 50--SQ.FT. IN SIZE CAN BE PATCHED BY ANY MEANS SUITABLE WITH STANDARD HOT MIX ASPHALT OR POROUS ASPHALT

REPAIR OF DAMAGE GREATER THAN 50-SQ.FT. IN AREA REQUIRES T

ENGINEER.

ANY REPAIR OF DRAINAGE STRUCTURES REQUIRED SHOULD BE PERFORMED IMMEDIATELY TO ENSURE PROPER FUNCTIONING OF THE

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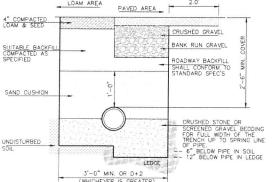


DETAIL 106 LOT MAP TAX

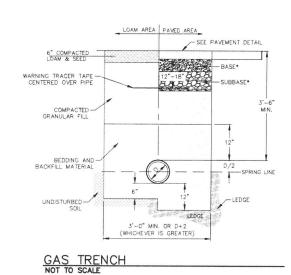
POROUS PAVEMENT STORAGE,

CD-501

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TYPICAL DRAINAGE PIPE TRENCH DETAIL NOT TO SCALE



TEMPORARY:
PROVIDE NON-WOVEN
GEOTEXTILE (MIRAFI 160N OR
EQUAL) AT ALL BOUNDARIES
OF POROUS PAVMENT SYSTEM

(REMOVE PRIOR TO REPAIR OF POROUS PAVEMENT. SEE CD-501)

POROUS PAVEMENT DRIVEWAY CROSS-SECTION PROTECTION DETAIL

FOUNDATION (BY OTHERS)-

NOT TO SCALE

LOAM AREA PAVED AREA SEE PAVEMENT DETAIL 6" COMPACTED LOAM & SEED BASE\* WARNING TRACER TAPE CENTERED OVER PIPE D/2 UNDISTURBED ---LEDGE 3'-0" MIN. OR D+2 (WHICHEVER IS GREATER)

WATER TRENCH SECTION NOT TO SCALE

VARIES TO LIMIT OF CUT PAVEMENT

POSITION OF FILTER FABRIC OVERLAP DURING INSTALLATION OF FILTER MATERIAL OF FOUNDATION-

5' MIN. FILTER FABRIC AND CLEAN STONE BLANKET

> 36" MIN. OR UTILITY COMPANY STANDARD (WHICHEVER IS GREATER) CONCRETE -ENCASEMENT UNDISTURBED SOIL

-REMAINING POROUS PAVEMENT

--- 12" FILTER COURSE (NHDOT ITEM 304.1 MODIFIED)

-10" RESERVOIR COURSE (AASHTO NO. 3) W/ 4" DIA. PERF. UNDERDRAIN

-- FILTER FABRIC (MIRAFI 160N OR APPROVED EQUAL)
IN AREAS OVER WETLAND SOILS OR POOR SOIL

# ELECTRICAL AND COMMUNICATION CONDUIT NOT TO SCALE

- NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL OR AS SHOWN ON CONDUIT PLAN.

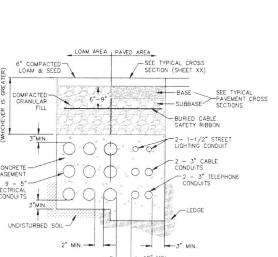
  DIMENSIONS SHOWN REPRESENTS OWNER'S MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT MAY NOT BE LESS THAN SHOWN.

  NOT BE LESS THAN SHOWN.

  AN OUTBEE POLITION STRING CAPABLE OF 200 POLIDNS OF PULL MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CARIE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.

  BALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE. STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.

  TO 48' RADIUS.?????



FUSS & O'NEILI



201 STORAGE, LLC

TAX MAP 106 LOT 3 DETAILS

PROJ. No.: 20151369.A1 DATE: 06/25/19 CD-502

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SEDIMENT DEPOSITION SHOULD BE REMOVED, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE—HALF THE HEIGHT OF THE FENCE, AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SLIT FENCE.

3. SILT FENCES SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHOULD BE REPLACED WITH A TEMPORARY CHECK DAM.

4. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY; THE FABRIC SHOULD BE REPLACED PROMPTLY.

5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE PREPARED AND SEEDED.

7. SILT FENCES HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE SHOULD BE REPAIRED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.

CONSTRUCTION SPECIFICATIONS:

1. FENCES SHOULD BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE FENCE. SEDIMENT BARRIERS SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.

2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHOULD BE LESS THAN 1A ACRE PER 100 LINEAR FEET OF FENCE:

- 3. THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET;
- 4. THE MAXIMUM SLOPE ABOVE THE FENCE SHOULD BE 2:1:

FENCES SHOULD BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND A. THE ENDS OF THE FENCE SHOULD BE FLARED UPSLOPE;

B. THE FABRIC SHOULD BE EMBEDDED A MINIMUM OF 8 INCHES IN DEPTH AND 4 INCHES IN WIDTH IN A TRENCH EXCAVATED INTO THE GROUND, OR IF SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FABRIC SHOULD BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE; C. THE SOIL SHOULD BE COMPACTED OVER THE EMBEDDED FABRIC

D. SUPPORT POSTS SHOULD BE SIZED AND ANOHORD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 6 FEET;

E. ADJOINING SECTIONS OF THE FERDE SHOULD BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. METAL POSTS ARE USED, FABRIC SHOULD BE WIRE—IRED DIRECTLY TO THE POSTS WITH THREE DIRACTLY.

- 6. SILT FENCING SHOULD NOT BE STAPLED OR NAILED TO TREES.
- THE FILTER FABRIC SHOULD BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHOULD BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER.
- THE FILTER FABRIC  $\stackrel{\frown}{S}$ HOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT OF 120 DEGREES FAHRENHEIT OF
- POSTS FOR SILT FENCES SHOULD BE EITHER 4-INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET, STEEL POSTS SHOULD HAVE, PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHOULD BE PLACED ON THE DOWN SLOPE SIDE OF THE FABRIC.
- 10. THE HEIGHT OF A SILT FENCE SHOULD NOT EXCEED 36 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- 11. THE FILTER FABRIC SHOULD BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS, WHEN JOINTS ARE NECESSARY; FILTER CLOTH SHOULD BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SCALED.
- 12. A MANUFACTURED SILT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
- 13. POST SPACING SHOULD NOT EXCEED 6 FEFT.
- 14. A TRENCH SHOULD BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT FROM THE BARRIER.
- 15. THE STANDARD STRENGTH OF FILTER FABRIC SHOULD BE STAPLED OR WIRED TO THE POST, AND 8 INCHES OF THE FABRIC SHOULD BE EXTENDED INTO THE TRENCH. THE FABRIC SHOULD NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SUFFACE.
- 16. THE TRENCH SHOULD BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- 17. SILT FENCE MAY BE INSTALLED BY "SLICING" USING MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SLICING METHOD USES AN IMPLEMENT TOWED BEHIND A TRACTOR TO "PLOW" OR SLICE THE SILT FENCE MATERIAL INTO THE SOIL. THE SLICING METHOD MINIMALLY DISRUPTS THE SOIL UPWARD AND SLICHTLY DISPLACES THE SOIL OF SOIL SOIL SPROFILE AND CREATING AN OPTIMAL CONDITION FOR SUBSEQUENT MECHANICAL COMPACTION.
- 18. SILT FENCES SHOULD BE INSTALLED WITH "SMILES" OR "J-HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPOUND.
- 20. SILT FENCES PLACED AT THE TOE OF A SLOPE SHOULD BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW PONDING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBIN THE SLOPE.
- SILT FENCES SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE
  THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILT FENCE BARRIER

### PROJECT SPECIFIC **CONSTRUCTION PHASING:**

- REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "GENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADDIERD TO.
- INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, EROSION CONTROL MIX BERMS STONE CHECK DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET CG-101.
- CLEAR, GRUB AND STRIP THE SITE. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED DRIVEWAY EXTENSION.
  MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT DETAIL.
- 5. STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILES PRACTICES". MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
- 6. PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.
- A) INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY
- AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL BARRIERS WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE, EROSION CONTROL MIX BERMS, CHECK DAMS AND SEDIMENT CONTROLS AND CATCH BASINS, ETC.)
- 8. INSTALL ALL UTILITIES AND CLOSED DRAINAGE SYSTEM COMPONENTS (I.E. CATCH BASINS, PIPE CULVERTS, FLARED END SECTIONS, ETC.) PER THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C2. AS EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING TEMPORARY SEDIMENT CONTROL BARRIER DEPICTED ON SHEET C2.
- ALL CUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
- 10. INSTALL ALL GRAVEL BASE AND CRUSHED GRAVEL MATERIALS FOR THE PARKING AREA AS SPECIFIED IN THE CORRESPONDING DETAILS.
- . THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE ELEVATIONS. 12. INSTALL PAVEMENT SURFACES AS SOON AS POSSIBLE AFTER INSTALLATION OF GRAVEL BASE AND
- CRUSHED GRAVEL INSTALLATION, NO ORDER TO LIMIT SOIL EROSION AND POLLUTION OF THE GRAVEL BASE AND MATERIALS WITH ORGANIC MATERIALS. IN NO CASE SHALL AREAS TO BE PAVED BE LEFT UNPROTECTED THROUGH THE WINTER MONTHS. 13. ALL DISTURBED AREAS EXCLUDING AREAS TO BE PAVED SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "CENERAL CONSTRUCTION

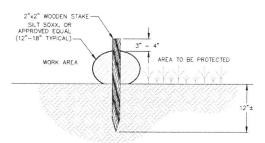
MAINTENANCE AND INSPECTION:
16. DURING CONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY, AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY.

- 17. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
- 18. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
- 19. SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE.

PHASING NOTES" AND NHSMM, VOL. 3 SHOULD BE EMPLOYED

PROJECT COMPLETION AND STABILIZATION:
20. UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE
TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED.
ANY DISTURBANCE OREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.

21. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH BASINS AND THE SEDIMENT FOREBAYS TO THE INFILTRATION BASINS.



SILT SOXX SECTION

### WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MAINTENANCE REQUIREMENTS:

  1. MAINTENANCE MEASURES SHOULD BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWNG AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT INSPECTION OF ALL INSTALLED EROSION CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUED FUNCTION.
- FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCETAIN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

SPECIFICATIONS: THE FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15

- 1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO 1\_ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSMM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT. STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5
- DAYS:
  ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE CROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHOULD BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NHSMM, VOL. 3 FOR SPECIFICATION).
- 3. ALL PROPOSED VECETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VECETATUS GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15 SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.

  4. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
- 6. ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE
- WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWOE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX. MULCH SHOULD BE RE-ESTABLISHED PRIOR TO ANY RAIN OR SNOWHALL NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WETLAND OR OTHER WATER RESOURCE AREA.
- FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION, FROZEN MATERIAL STOCKPILES CAM MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
- INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
- 10. ALL GRASS-LINED DITCHES AND CHANNELS SHOULD BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND SWALES WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHOULD BE STABILIZED TEMPORARILY WITH STORE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STOKE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
- 11. ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- 12. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHOULD BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12X OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
- 13. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

### **DUST CONTROL PRACTICES:**

- 1. APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE
- WAIER APPLICATION:

  A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

  B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSCUEURT DEPOSITION IN NATURAL WATERBODIES.

- SIONE APPLICATION:
   A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
- B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
- REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

### **GENERAL CONSTRUCTION PHASING:**

STABILIZATION:
A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:

A) IN AREAS THAT WILL NOT BE PAVED:
i) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;

- ii) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR:
- iii) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
- BASE COURSE GRAVELS HAVE BEEN INSTALLED.

  BY THE PROPERTY OF THE PROPERTY
- TEMPORARY STABILIZATION: ALL AREAS OF EXPOSED OR DISTURBED SOIL SHOULD BE TEMPORARILY STABILIZED AS SOON AS ALL AREAS OF EXPUSED ON DISTORBED SQL STUDIED BY TEMPORANICE STABILIZED AS SOUTH AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.
- PERMANENT STABILIZATION: ALL AREAS OF EXPOSED OR DISTURBED SOIL SHOULD BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
- MAXIMUM AREA OF DISTURBANCE:
  THE AREA OF UNSTABILIZED SOIL SHOULD NOT EXCEED 5 ACRES AT ANY TIME.
- 5. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
- A) FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
- B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHOULD BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED SHEET CE-101.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHOULD BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED on SHEET\_GE-101.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHOULD BE STOCKPILED IN THE AMOUN' NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
- 9. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE
- 10. SLOPES SHOULD NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SUPPAGE, SETTLEMENT SUBSIDENCE OR OTHER RELATED DAMAGE.
- AREAS TO BE FILLED SHOULD BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.
- 12. AREAS SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL SHOULD BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR
- 1.3. ALL FILLS SHOULD BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION SUPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHER FACILITIES, SHOULD BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 14. IN GENERAL, FILLS SHOULD BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHOULD REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE. 15. ANY AND ALL FILL MATERIAL SHOULD BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHE OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTOR
- 16. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHOULD BE PERFORMED UNDER THE DIRECTION OF A <u>PROFESSIONAL ENGINEER</u>.
- 17. THE OUTER FACE OF THE FILL SLOPE SHOULD BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFAGE ROUGHENING" IN THE NISMN, VOL.3.
- 18. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
- 19. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GUILLY EROSION. ALL BENCHES SHOULD BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
- 20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHOULD BE EVALUATED BY A <u>PROFESSIONAL</u>
  <u>ENGINEER</u> (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHOULD BE
  REVISED TO PROPERLY MANAGE THE CONDITION.
- 21. STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OF OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
- 22. ALL GRADED AREAS SHOULD BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING. ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER

### SOIL STOCKPILE PRACTICES:

- LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBACS OR OTHER APPROVED PRACTICES.
- STOCKPILES SHOULD BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NHSMM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
- 4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
- 5. PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES.

6. INACTIVE SOIL STOCKPILES SHOULD BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL

10. PROTECTION OF INACTIVE STOCKPILES. SHOULD BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL

10. PROTECTION OF INACTIVE STOCKPILES. STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHOULD BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.I SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHOULD ALSO E COVERED.

PROTECTION OF ACTIVE STOCKPILES.

8. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) PRICE TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.

9. WHEN A STORM IS PREDICTED, STOCKPILES SHOULD BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.



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SHT 11 of 14

NOT TO SCALE

MAINTENANCE REQUIREMENTS:

1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHOULD BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHOULD TEN BE RECONSTRUCTED.

HE CONTRACTOR SHOULD SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED NITO THE ADJACENT PAVEMENT OF TRACKED WAY ONTO THE ADJACENT PAYEMENT OF TRAVELED WAY.

WHEN WHEEL WASHING IS REQUIRED, IT SHOULD BE CONDUCTED ON AN AREA STABILIZED WITH
AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHOULD BE
PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTION SPECIFICATIONS:

THE MINIMUM STORE USED SHOULD BE 3-INCH CRUSHED STONE.

THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT

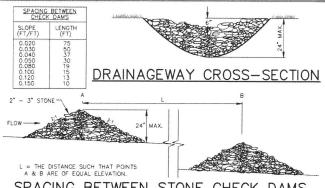
SITE. THE PAD SHOULD BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS THE PAD SHOULD BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROBE OF THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.

THE PAD SHOULD BE AT LEAST 6 INCHES THICK.

THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.

THE PAD SHOULD BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES CLOG THE VOIDS IN NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

### USDA-SCS STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



SPACING BETWEEN STONE CHECK DAMS

CONSTRUCTION SPECIFICATIONS:

STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.

CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.

STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

MAINTENANCE NOTES:

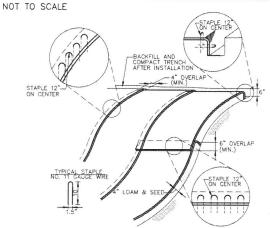
1. TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED IMMEDIATELY.

PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE

WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED

SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT

## STONE CHECK DAM INSTALLATION DETAIL



SLOPE INSTALLATION

MAINTENANCE REQUIREMENTS:

1. ALL BLANKET AND MATS SHOULD BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER

ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.

CONSTRUCTION SPECIFICATIONS:

1. MANUFACTURE'S INSTALLATION INSTRUCTIONS:

PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

NOTE: WHEN USING CELL—O-SEED DO NOT SEED PREPARED AREA. CELL—O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

NOTE: WITEN USING CELL-UD-SELD DO NOT SEED PREPARED AREA. CELL-OD-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) DUE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S AND COMPACTED SOIL. SECURE REOP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
ROLL THE RECP'S (A.) DOWN OR (8.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE ACAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SUFFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

APPROPRIATE STAPLE PATTERN.

THE EDGES OF PARALLE RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM 
12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.

CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE

STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA,

APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE: IN LOCKS SOW, CONNIDONS THE LIES OF STAPLE OF THE LIES OF THE PROPERTY. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

2. SITE PREPARATION:
A: PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTHNO WITH THE SOIL.
B: GRADE AND SHAPE AREA IF INSTALLATION.
C: REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
D: PREPARE SEEDED BY LOOSENING 2—3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
E: INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING FLAN.

SEEDING:
A. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURE REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.

B. WHEN SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER WHEN SOIL FILLING IS SPECIFIED.

EROSION CONTROL - BLANKET SLOPE PROTECTION

### PERMANENT VEGETATION:

SITE PREPARATION:

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

3. RUNOFF SHOULD BE DIVERTED FROM THE SEEDBED AREA.

ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:

1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

REMOVE FROM THE SURFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.

3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.

WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*

\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 600 LB./ACRE (13.8 LB./1,000-SF)\*

\*LOW PHOSPHATE FERTILIZER (N-P205-K20) OR EQUIVALENT

FERTILIZER SHOULD BE RESTRICTED TO LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 AND 250-FT FROM A SURFACE WATER BODY, NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25-FT OF A SURFACE WATER BODY. THESE ARE THE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.

WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.

4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35% OF THE SEED SHOULD BE HARD SEED (UNSCARFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES. MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL. 3. AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3.

VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.

WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.

3. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.

4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:

1. PERMANENT SEEDED AREAS SHOULD BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHOULD CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.

SEEDED AREAS SHOULD BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.

3. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.

4. AT A MINIMUM 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.

5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

### PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES LBS./ACRE		LBS./ 1,000-SF
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	А	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	А	TALL FESCUE CREEPING RED FESCUE REDITOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30

NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3,

TABLES 4-2 AND 4-3
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

3. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING SEASON.

SEEDBED PREPARATION:
1. STONES AND TRASH SHOULD BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

4. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES.

SITE PREPARATION;
 INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1.000-SF)\*

\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

TEMPORARY VEGETATION:

3. RUNOFF SHOULD BE DIVERTED FROM THE SEEDBED AREA.

SPECIFICATIONS:

FERTILIZER APPLICATION RATE = 600 LB./ACRE (13.8 LB./1,000-SF)\*

\*LOW PHOSPHATE FERTILIZER (N-P205-K20) OR EQUIVALENT

FERTILIZER SHOULD BE RESTRICTED TO LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPUED TO AREAS BETWEEN 25 AND 250-FT FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25-FT OF A SURFACE WATER BODY. THESE ARE THE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

SEEDING:

1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

2. TEMPORARY SEED SHOULD TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.

AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL

VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.

MAINTENANCE REQUIREMENTS:

1. TEMPORARY SEEDING SHOULD BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHOULD BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.

BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY
STABILIZATION MEASURES SHOULD BE IMPLEMENTED.

IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VECETATION ESTABLISHMENT.

### TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)



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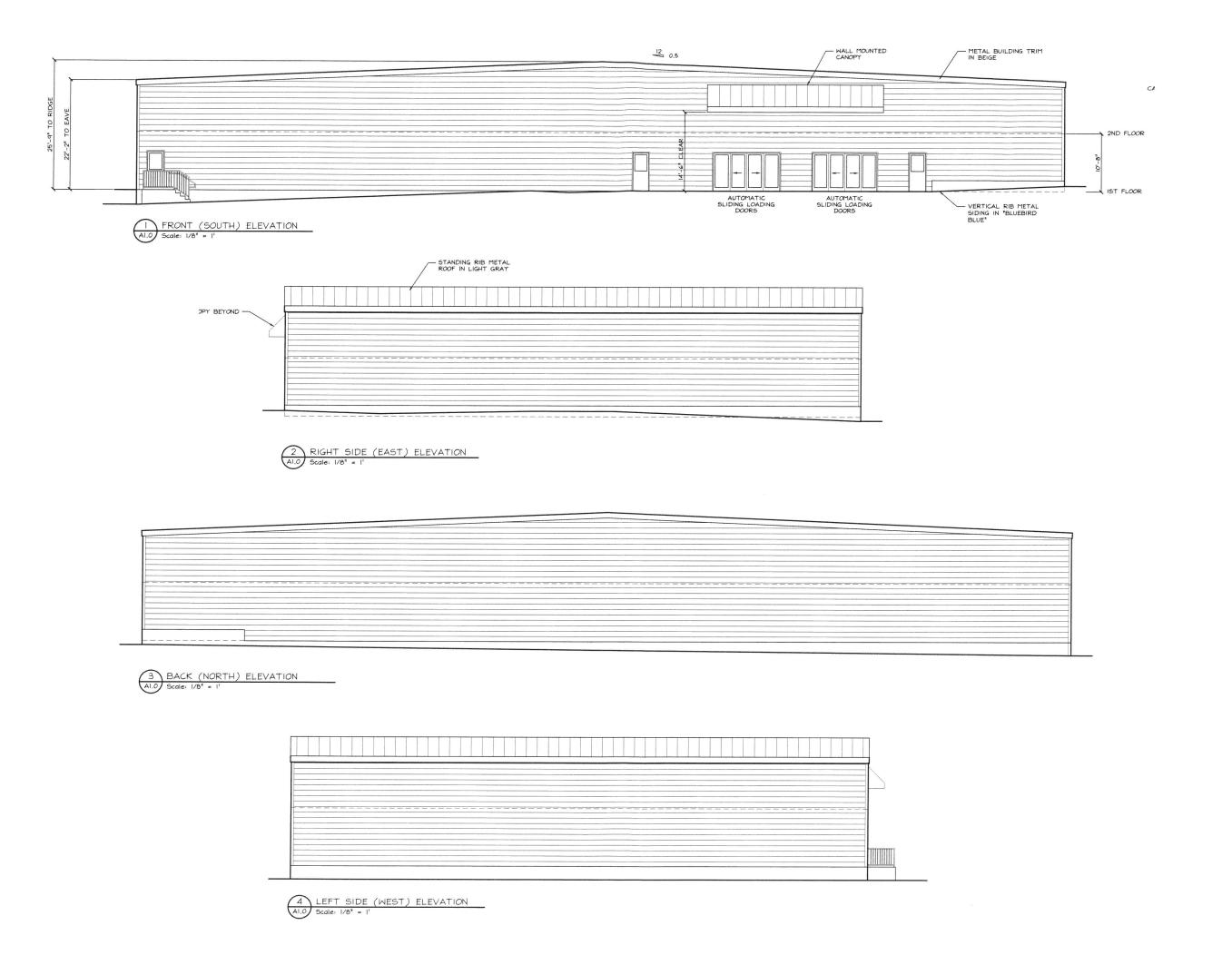
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Associates, LLC Consulting Structural Engineers

One Autumn Street Portsmouth, NH 03801 Phone: (603) 433 - 8639 www.jsneng.com

Client:

Bluebird Self Storage Greenland, NH

> Bluebird Self Storage Rochester, NH

For Approval Only

05-28-2019

Date: Scale: As Noted
Design By: RB
Approved By: -

Revisions

Elevations

A2.0