

CITY OF DOVER

DOVER PLANNING BOARD – AGENDA

Meeting Type: Regular Meeting
Meeting Location: Council Chambers – City Hall, 288 Central Avenue
Meeting Date: **Tuesday, March 8, 2016**
Meeting Time: **7:00 pm**

1. CITIZENS' FORUM

2. APPROVAL OF THE PRIOR MINUTES

- February 23, 2016 Regular Meeting Minutes

3. OLD BUSINESS

- A. Consideration and Possible Vote for Posting of Proposed Area Rezoning of Land.

4. NEW BUSINESS

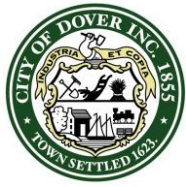
- A. Consideration and acceptance of a Conditional Use Permit for Saddle Lot 3, LLC, Assessor's Map N, Lot 8-1-3, zoned R-40, located at Lot #3 Saddle Trail Drive. (Proposal is to construct a single family house within a 20% slope Conservation District. Proposal will impact 4,290 sq. ft. within the Conservation District.) *(P16-03)
- B. Public Hearing on the CDBG Action Plan for FFY16. All persons wishing to speak on the proposed Action Plan and use of funds are urged to attend.
- C. Discuss the appointments to the Steering Committee for the Stewardship Chapter of the Master Plan.

5. STAFF COMMENTS

6. MEMBER COMMENTS

7. ADJOURNMENT

*Indicates that if the application is accepted for discussion, the public hearing will be held the same evening, at which time any interested party may offer comment to the Planning Board. Persons with questions or wishing to see the plans are invited to visit the Planning Office, Monday through Thursday from 8:30 am to 5:30 pm and Friday 8:30 am to 4:00 pm. You may also view materials at www.dover.nh.gov, a map showing project locations can be found at <http://www.dover.nh.gov/government/city-operations/planning/index>. Any questions or comments can be emailed to Dover-Planning@dover.nh.gov. Follow us on Twitter @DoverNHPlanning and find us on Facebook at <https://www.facebook.com/DoverNHPlanning>.



CITY OF DOVER

DOVER PLANNING BOARD – MINUTES

Meeting Type: Regular Meeting
Meeting Location: Council Chambers - City Hall, 288 Central Avenue
Meeting Date: **Tuesday, February 23, 2016**
Meeting Time: **7:00 pm**

Members Present: Frank Torr (Chair), Kirt Schuman (Vice Chair), Dennis Ciotti (Councilor), Tom Clark, Dave White, Lee Skinner, Catherine Plante, Christopher Lawrence, Gina Cruikshank, Maggie Fogarty (Alternate), Curtis J. Pratt (Alternate),

Members Not Present: David Landry (Alternate)

Staff Present: Christopher Parker (Assistant City Manager)

The Chair called the meeting to order at 7:01 p.m.

1. CITIZENS' FORUM

Citizens Forum Open. Nobody Spoke. Citizens Forum Closed

2. APPROVAL OF THE PRIOR MINUTES

- February 9, 2016 Regular Meeting Minutes

Motion: K.Schuman made a motion to approve the February 9, 2016 Regular Meeting Minutes. Seconded by T.Clark. Vote U/A

3. OLD BUSINESS

4. NEW BUSINESS

- A. Impact Fee Waiver Request for Stabile Homes at Pointe Place, LLC, Assessor's Map K, Lot 19-3, located at Sierra Drive. (Waiver of School Impact Fee per 170.23-F-1-a, 31 units of housing for older persons (55+).

C.Parker reviewed the application and the underlying zoning. He noted that this adjustment has been made for three other similar projects, and could have been made at the approval of the project in 2014. No homes have been constructed yet, so there has been no impact. He also noted that this does not meet the waiver criteria as outlined in the ordinance, but is consistent with previous requests.

No one represented the application.

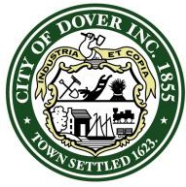
Motion: K.Schuman made a motion to accept the waiver. Seconded by D.White. Vote U/A

Discussion ensued regarding tabling the application.

C.Lawrence expressed a concern that Dover continues to view schools as for youth only and not part of the larger community. He expressed how school systems improve quality of life and lead to better economies in communities. He also pushed the Board to end the trend of reducing impact fees, and just deny this one.

D.Ciotti explained his concern relative to the cost of the new High School and the fact that impact fees need to be consistent and the value of schools in the community.

K.Schuman discussed the trickledown effect of new 55+ units and they open up existing homes for families with students so there is an impact.



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Meeting Time: **7:00 pm**

Motion: L.Skinner made a motion to table the waiver. Seconded by T.Clark. Vote 3-6 (Fails)

STAFF RECOMMENDATION:

The requested waiver of the full school impact fee does not meet the criteria for waivers listed in Chapter 170-23-F(1)(a). However, the Planning Department recommends that the Planning Board reduce the school impact fee to equal 20 percent of the single family housing impact per unit, at the time of the building permit application, consistent with three previous, similar requests.

Motion: C.Lawrence made a motion to deny the waiver. Seconded by G. Cruikshank. Vote 6/3

B. Consideration and Possible Posting of Proposed Area Rezoning of Land.

D.Barufaldi gave an overview of a process DBIDA is undertaking to review opportunities to increase non residentially zoned land.

C.Plante confirmed with D.Barufaldi the existing vacancy rates within the industrial parks. She would like to learn more about commercial growth as the process continues.

D.Barufaldi explained that DBIDAs hope is to bring parcels or areas forward and not an omnibus of rezoning proposals.

L.Skinner asked for statistics about land use, vacancy, utilization and absorption of commercial/industrial land. Looking for clarification on the City Council goals for rezoning.

D.Ciotti spoke to the City Council's goals and intent to improve the tax valuation ratio.

C.Parker spoke to zoning attempts since 2000. Discussion ensued about the need to rezone and the process.

C.Parker mentioned a citizen request coming forward on March 8th.

5. STAFF COMMENTS

The Board was asked to approve a lot merger form submitted for land on Back Road.

Motion: K.Schuman made a motion to approve the Chair signing the form. Seconded by D.Ciotti. Vote: U/A

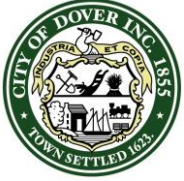
C.Parker spoke about the CDBG process, and handed out binders. He also noted that the NHOEP conference in April has been canceled, and a group looking for input on community engagement.

6. MEMBER COMMENTS

L.Skinner thanked the Board and staff for the support he's received.

7. ADJOURNMENT

Motion: K.Schuman made a motion to adjourn at 808 p.m. Seconded by C.Plante. Vote: U/A



CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #P16-03

Application Type: Conditional Use Permit for Conservation District Impact
Applicant(s): Saddle Lot 3, LLC
Owner(s): Saddle Lot 3, LLC
Location: Saddle Trail Drive (Assessor's Map N, Lot 8-1-3)
Meeting Date: March 8, 2016

INTENT: To obtain a Conditional Use Permit to disturb 4,290 sq. ft. of 20 percent slope for the construction of a single family house.

LOTS/UNITS PROPOSED: One

AGENDA ITEM #: 4-A

ACREAGE: 1.09 Acres

ZONING DISTRICT:

Rural Residential (R-40)

EXISTING LAND USE: Vacant

PROPOSED LAND USE: Single-family house

SURROUNDING LAND USE: Residential, Vacant and Cochecho River

ZBA ACTION: None

ATTACHMENTS: Conditional Use Permit Application, Conservation Commission Minutes, NHDES Shoreland Impact Permit

APPLICATION IS COMPLETE: Yes

NOTICES SENT: Abutter notices were sent by certified mail to all abutters

PERMITS REQUIRED:

- Conditional Use Permit
- NHDES Shoreland Permit (#2016-00171 approved on February 12, 2016)

WAIVERS REQUESTED:

- None

Summary of Request and Background

The applicant has submitted a set of plans to impact the 20% steep slope Conservation District by constructing a single-family house.

The applicant appeared before the Conservation Commission on February 22, 2016 (see Conservation Commission minutes). The Conservation Commission voted to endorse the application with the condition that an erosion control note be added that details soil stabilization and erosion prevention practices to be implemented at the site. The applicant has since revised the plans to add the requested details.

Consistency with Land Use Regulations

The Conservation District ordinance provides for Conditional Use Permits to allow impacts to areas of 20 percent slope if standards related to demonstration of need, avoidance, minimization, and mitigation are met.

STAFF RECOMMENDATION:

The Planning Department recommends that the Planning Board accept the application, hold the public hearing, and approve the Conditional Use Permit with the following conditions:

Conditions to Be Met Prior to the Issuance of the Conditional Use Permit:

1. The erosion and sediment control features shall be installed prior to any earth disturbance.

Saddle Lot 3 LLC

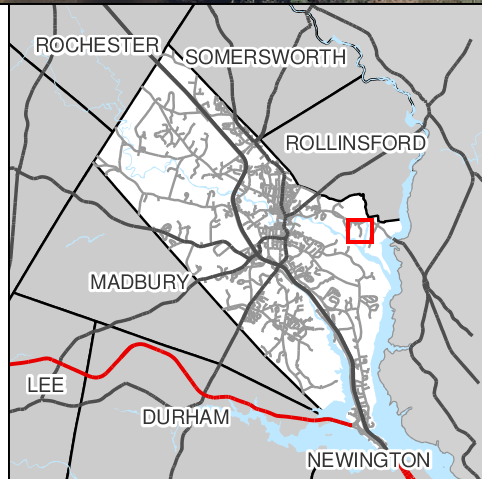
**Property Information**

Property ID N0008-001003
Location SADDLE TRAIL DR
Owner SADDLE LOT 3 LLC

**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

The City makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated January 1, 2015





City of Dover, New Hampshire

CONDITIONAL USE PERMIT APPLICATION

[Revision Date: September 29, 2015]

Office Use Only

Project #:

P16-03

Date Received:

Planning Office

JAN 27 2016

Amount Paid:

Time Received:

Dover, New Hampshire

APPLICANT AND OWNER INFORMATION

Name of Applicant: Saddle Lot 3, LLC

Telephone # 603-926-5511

Address of Applicant: 28 Winnicut Road, North Hampton, NH 03862

E-Mail Address: office@powellbuildersllc.com

Name of Property Owner (if different from applicant):

Telephone #

Address of Property Owner:

PROPERTY INFORMATION

Assessor's Map # N Lot(s) # 8-1-3

Address of Property: Lot #3, Saddle Trail Drive

Zoning District(s) R-40 Overlay District(s)

Existing Use of Property: Vacant

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

- | | | |
|---|---|---|
| ☒ Conservation District | ☐ RCM Use Overlay District | ☐ I-1 District Uses |
| ☐ Groundwater Protection | ☐ Off-Street Parking and Loading | ☐ Alternative Treatment Center |
| ☐ Wetland Protection District | ☐ Central Business District | |

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

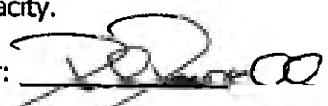
The proposed activity is to construction a single family house with associated driveway, walkways and septic system on the lot. All construction and grading will remain outside the 100' conservation buffer and will have silt fence placed before construction starts to prevent any siltation issues. The conditional use permit request is for disturbance of slopes over 20%. The impact to the 20% slope is 4,290 s.f. Alternatives have been looked at and they would require a larger area of impact to the 20% slope. This placement is the best configuration for this site.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status:

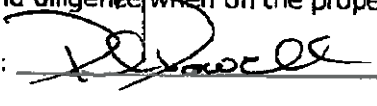
NHDES shore land permit has been submitted and waiting on state response

Name of Professional That Prepared Plans: Norway Plains Associates, Inc. Steve OlesAddress PO Box 249, Rochester, NH 03866Telephone #: 603-335-3948Professional License #: 993E-mail address: soles@norwayplains.com**SIGNATURES**

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: Date: 1-27-2016Signature of Applicant (if different from owner): Date: Signature of Agent: Date: 1-27-2016**AUTHORIZATION TO ENTER SUBJECT PROPERTY**

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: Date: 1-27-2016

CITY OF DOVER CONDITIONAL USE LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. The applicant must obtain the abutter information from the records of the Tax Assessor's Office (not more than five days prior to filing) in order to process the site review application.

ABUTTER is defined as the owner of record of a parcel of land located in New Hampshire and that adjoins or is directly within two hundred (200) feet (including land across the street or waterway) of the proposed site under consideration by the Planning Board. For a condominium or other collective form of ownership, abutter means the officers of the collective or association. (See additional requirement below)

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
N-8	1-3	Saddle Lot 3, LLC	28 Winnicut Road, North Hampton, NH 03862

Applicant (if different from owner):

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS

Surveyor and/or Engineer:

NAME	COMPANY	MAILING ADDRESS
Steven Oles, LLS	Norway Plains Associates, Inc.	P. O. Box 249; Rochester, NH 03866-0249

Conservation Easement Holder:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS

Abutters:

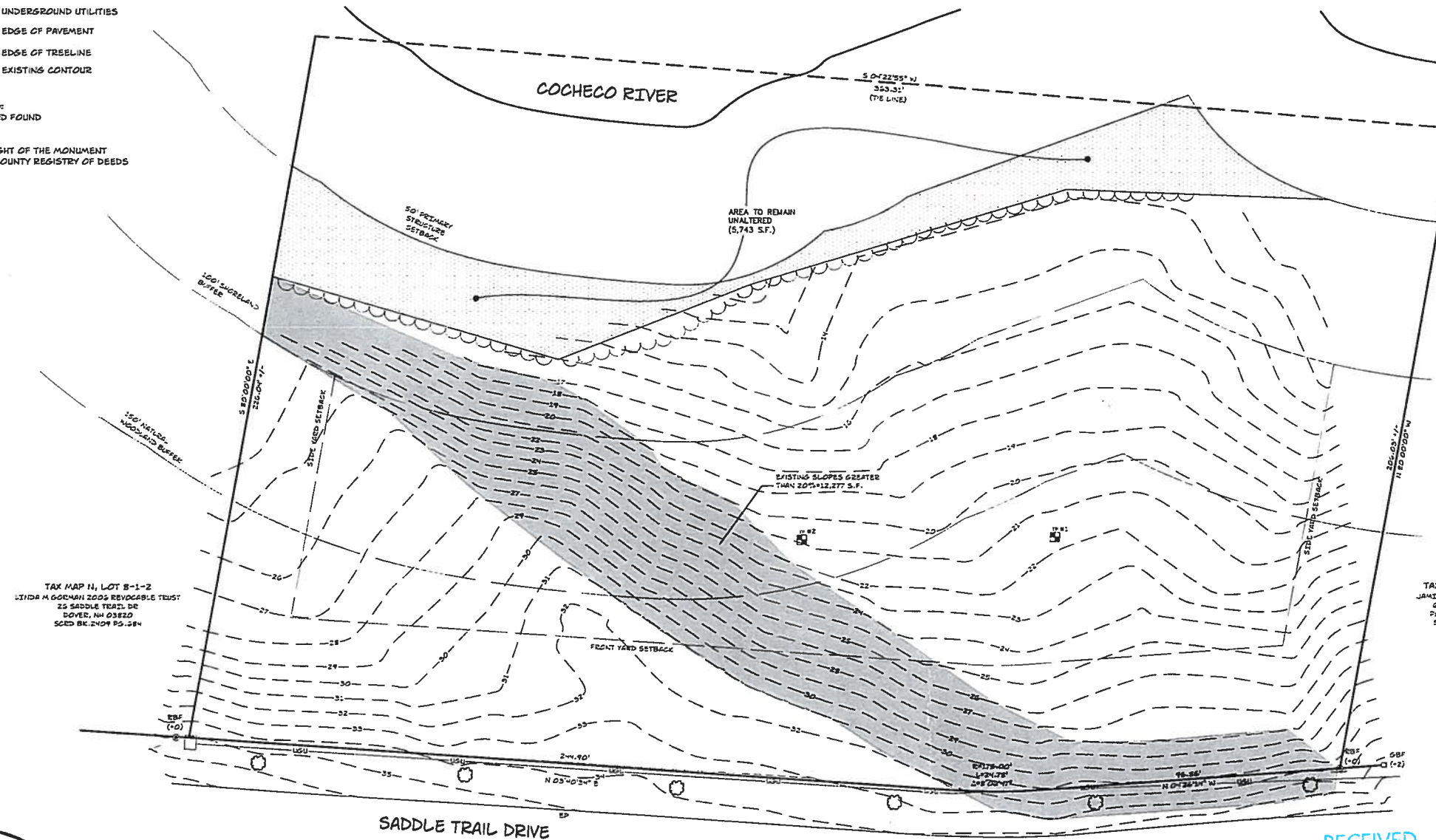
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- LEGEND
- ⊙ EXISTING MONUMENT
 - BOUND
 - ⊕ TEST PIT

- N 89°56'30" E
425.61' PROPERTY LINE
- SETBACK LINE
 - EDGE OF WETLAND
 - UGU UNDERGROUND UTILITIES
 - EP EDGE OF PAVEMENT
 - EDGE OF TREELINE
 - 20' EXISTING CONTOUR

ABBREVIATION LEGEND:
GBF - GRANITE BOUND FOUND
RBF - REBAR FOUND
(-2') - DENOTES HEIGHT OF THE MONUMENT
SCRD - STRAFFORD COUNTY REGISTRY OF DEEDS



- NOTES:
1. THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING FEATURES OF THE SITE.
 2. TOTAL PARCEL AREA: MAP N, LOT 8-1-3 1.838 +/- ACRES
 3. PARCEL IS ZONED R-40.
 4. MINIMUM LOT REQUIREMENTS:
LOT SIZE = 40,000 S.F.
FRONTAGE = 150'
 5. BUILDING SETBACKS: FY. = 40', SY. = 25', RY. = 30'
 6. THE LOT IS SERVICED BY ON-SITE WELL AND AN ON-SITE SEPTIC SYSTEM.
 7. A PORTION OF THE LOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 9/30/2015 COMMUNITY PANEL 33017C0330E PANEL 330 OF 405.
 8. THE MAJORITY OF THE SITE IS GRASS LANDS WITH THE AREA WITHIN THE 50' PRIMARY STRUCTURE SETBACK BEING WOODS.

REFERENCE PLANS:

1. "OPEN SPACE SUBDIVISION WITH COMMERCIAL COMPONENT FOR WOODWIND FARMS, LLC, TAX ASSESSORS MAP N, LOT 8-1, GULF ROAD, DOVER, NEW HAMPSHIRE, COUNTY OF STRAFFORD"
DATED: 7/17/2007 BY: DOUGET SURVEY
RECORDED: SCRD PLAN #93-55.

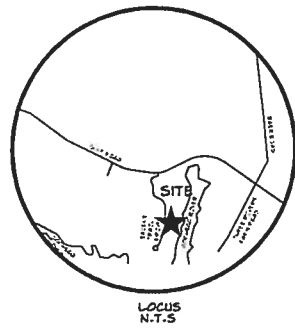
TAX MAP N, LOT 8-1-2
LINDA M. GORDMAN 2006 REVOCABLE TRUST
26 SADDLE TRAIL DR
DOVER, NH 03820
SCRD BK. 2409 PG. 584

TAX MAP N, LOT 8-1-4
JAMESON & BREE & DUSTON
659 DENNETT ST STE 1
PORTSMOUTH, NH 03801
SCRD BK. 1101 PG. 152

TAX MAP N LOT 8-1-3
OWNER OF RECORD:
SADDLE LOT 3, LLC
28 WINNICUT ROAD
NORTH HAMPTON, NH
2393/283

TAX MAP N, LOT 8-1-10
LINDA M. GORDMAN 2006 REVOCABLE TRUST
26 SADDLE TRAIL DR
DOVER, NH 03820
SCRD BK. 2409 PG. 584

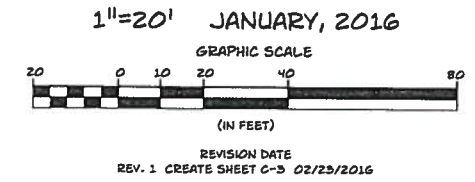
RECEIVED
Planning Office
FEB 23 2016
Dover, New Hampshire



FILE NO. #439
PLAN NO. #
DWG. NO. #15143 SSD
F.B. NO. #



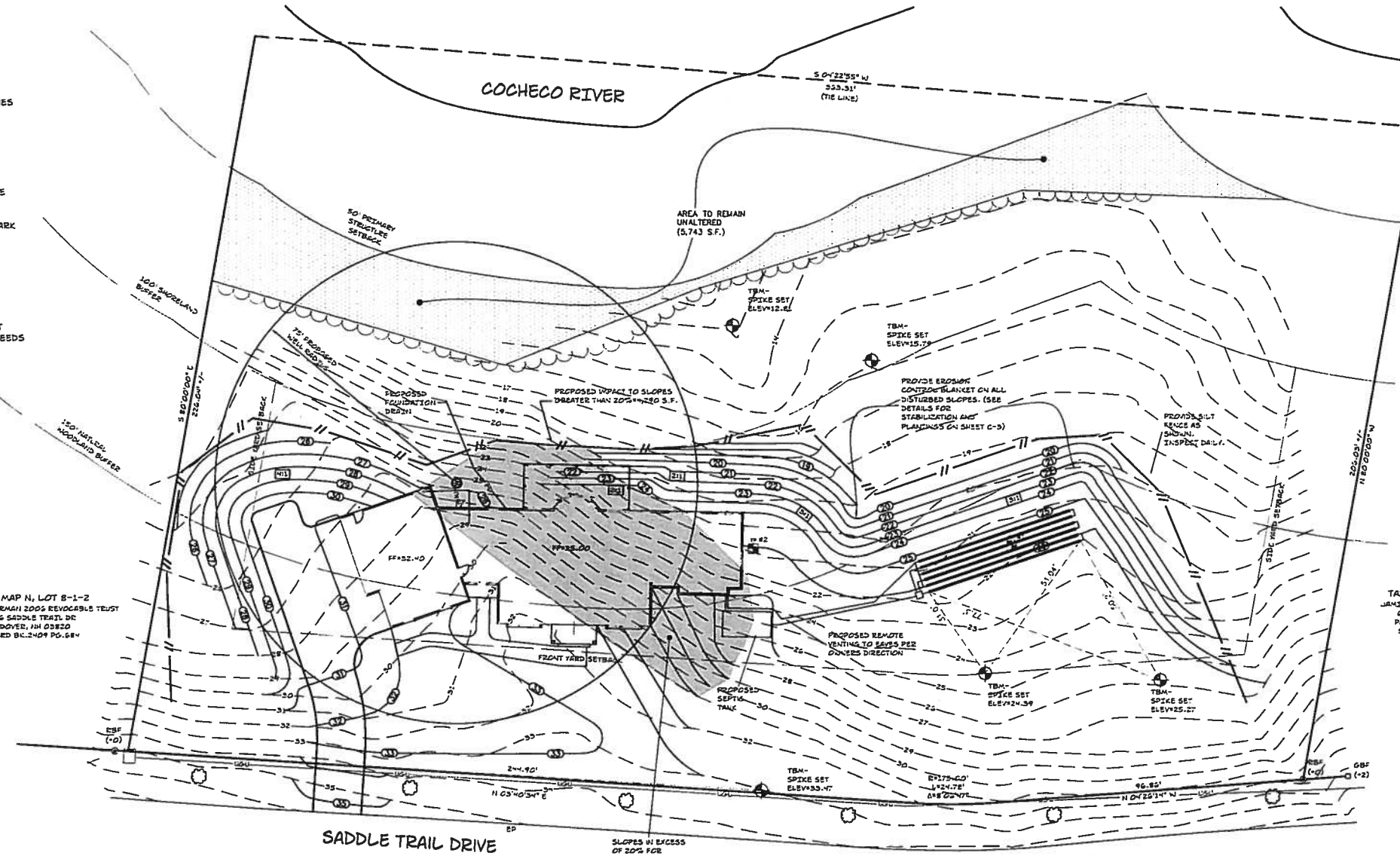
CONDITIONAL USE PLAN
(EXISTING FEATURES)
LOT #3, SADDLE TRIAL DRIVE
DOVER
STRAFFORD COUNTY, NH
FOR: SADDLE LOT 3, LLC





- LEGEND**
- ⊙ EXISTING MONUMENT
 - BOUND
 - ⊕ TEST PIT
 - N 89°56'30" E 425.61' PROPERTY LINE
 - SETBACK LINE
 - - - - - EDGE OF WETLAND
 - USU --- UNDERGROUND UTILITIES
 - SP --- EDGE OF PAVEMENT
 - EDGE OF TREELINE
 - - - - - EXISTING CONTOUR
 - - - - - PROPOSED CONTOUR
 - - - - - PROPOSED SILT FENCE
 - FF FINISH FLOOR
 - TBM TEMPORARY BENCH MARK

ABBREVIATION LEGEND:
 GBF - GRANITE BOUND FOUND
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 (+2') - DENOTES HEIGHT OF THE MONUMENT
 SCRD - STRAFFORD COUNTY REGISTRY OF DEEDS



- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED HOUSE, DRIVEWAY, SIDE WALKS AND POOL THAT IS BEING DESIGNED FOR THIS SITE.
 2. TOTAL PARCEL AREA: MAP N, LOT 8-1-3 1.838 +/- ACRES
 3. PARCEL IS ZONED R-40.
 4. MINIMUM LOT REQUIREMENTS:
 LOT SIZE = 40,000 S.F.
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 5. BUILDING SETBACKS: FY. = 40', SY. = 25', RY. = 30'
 6. THE LOT IS SERVICED BY ON-SITE WELL AND AN ON-SITE SEPTIC SYSTEM.
 7. A PORTION OF THE LOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 9/30/2015 COMMUNITY PANEL 33017C0330E PANEL 330 OF 405.
 8. TOTAL PERMANENT IMPERVIOUS AREA BEING PROPOSED IS 7,570 S.F. TOTAL TEMPORARY DISTURBANCE FOR CONSTRUCTION IS 27,830 S.F.

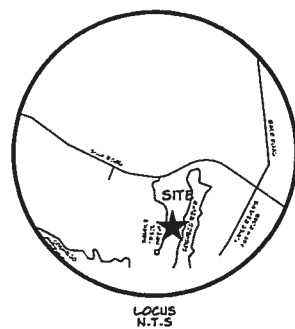
REFERENCE PLANS:

1. "OPEN SPACE SUBDIVISION WITH COMMERCIAL COMPONENT FOR WOODWIND FARMS, LLC, TAX ASSESSORS MAP N, LOT 8-1, GULF ROAD, DOVER, NEW HAMPSHIRE, COUNTY OF STRAFFORD" DATED: 7/17/2007 BY: DOUGET SURVEY RECORDED: SCRD PLAN #93-56.

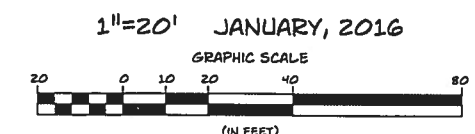
TAX MAP N, LOT 8-1-4
 JAMESON & BRES & DUSTON
 659 DENNETT ST STE 1
 PORTSMOUTH, NH 03801
 SCRD BK-1101 PG-153

TAX MAP N LOT 8-1-3
 OWNER OF RECORD:
 SADDLE LOT 3, LLC
 28 WINNICUT ROAD
 NORTH HAMPTON, NH
 2393/283

**CONDITIONAL USE PLAN
 (PROPOSED CONDITIONS)
 LOT #3, SADDLE TRAIL DRIVE
 DOVER
 STRAFFORD COUNTY, NH
 FOR: SADDLE LOT 3, LLC**



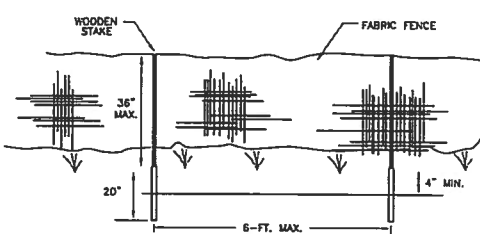
FILE NO. 439
 PLAN NO. #
 DWC. NO. 15143 CUP
 F.B. NO. SDR "33"



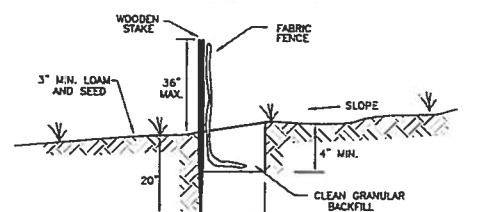
REVISION DATE
 REV. 1 CREATE SHEET C-3 02/23/2016

SILTATION CONTROL FENCE DETAIL

NOT TO SCALE



PROFILE



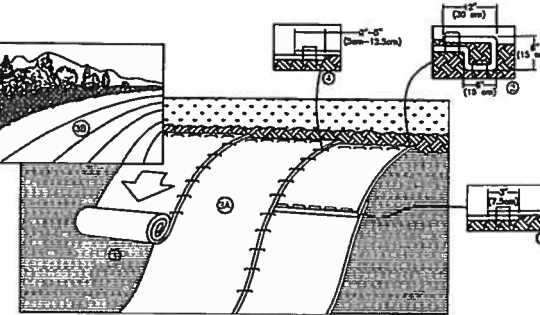
CROSS-SECTION

- MAINTENANCE REQUIREMENTS:**
- FENCES SHOULD BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS.
 - 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 REDEPOSITED BACK TOWARD THE SILT FENCE.
 - SILT FENCES SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM IF THERE ARE SIGNS OF UNSTABLE EROSION AT THE CENTER OF THE BARRIER, OR ACCUMULATION OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHOULD BE REPLACED WITH A TEMPORARY CHECK DAM.
 - SHOULD THE FABRIC OR 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.
 - 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 SEEDING.
 - IF THERE IS EVIDENCE OF EROSION OR FLOW ON PROPERLY INSTALLED BARRIERS, EXISTING BARRIERS UNLESS OF CONSIDER REPAIRING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY EROSION AND SEDIMENT TRAPS.
 - 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:**
- 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.
 - THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHOULD BE LESS THAN 10 ACRES PER 100 LINEAL FEET OF FENCE.
 - THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET.
 - 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
 - THE EDGES OF THE FENCE SHOULD BE FLARED UPWARD.
 - THE FABRIC SHOULD BE ENLARGED A MINIMUM OF 4 INCHES IN DEPTH AND 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 ENLARGED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE.
 - THE SOIL SHOULD BE COMPACTED OVER THE ENLARGED FABRIC.
 - SUPPORT POSTS SHOULD BE SIZED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 10 FEET.
 - ADJOINING SECTIONS OF THE FENCE SHOULD BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FENCED AND STAPLED TO A SUPPORT POST IF METAL POSTS ARE USED, FABRIC SHOULD BE WIRE-TIED DIRECTLY TO THE POSTS WITH THREE DIAGONAL TIES.
 - SILT FENCES SHOULD NOT BE STAPLED OR NAILED TO TREES.
 - THE FILTER FABRIC SHOULD BE A PERVIOUS SHEET OF POLYPROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHOULD BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER.
 - THE FILTER FABRIC SHOULD 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 TO 100 DEGREES FAHRENHEIT.
 - POSTS FOR SILT FENCES SHOULD BE EITHER 4-INCH DIAMETER WOOD OR 1.53 POUNDS PER LINEAL 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 LEeward SIDE OF THE FABRIC.
 - THE HEIGHT OF A SILT FENCE SHOULD NOT EXCEED 36 INCHES AS HIGHER FENCES MAY INFLUENCE VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
 - 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 SPICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
 - A MANUFACTURED SILT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
 - POST SPACING SHOULD NOT EXCEED 6 FEET.
 - A TRENCH SHOULD BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT FROM THE BARRIER.
 - THE STANDARD WIDTH OF FILTER FABRIC SHOULD BE STAPLED OR WIRE TO THE POST, AND 8 INCHES OF THE FABRIC SHOULD BE EXTENDED INTO THE TRENCH. THE FABRIC SHOULD NOT EXCEED MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - THE TRENCH SHOULD BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 - 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 "CUT" THE SILT FENCE MATERIAL INTO THE SOIL. THE SLICING METHOD USUALLY COMPIRES THE SOIL UPWARD AND SLIGHTLY DISPLACES THE SOIL, MAINTAINING THE SOIL'S PROFILE AND CREATING AN OPTIMAL CONFIGURATION FOR SUBSEQUENT MECHANICAL COMPACTION.
 - SILT FENCES SHOULD BE INSTALLED WITH "SHOULDS" OR "J-HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPROVE.
 - THE ENDS OF THE FENCE SHOULD BE TYPED UPWARD.
 - SILT FENCES PLACED AT THE TOP OF A SLOPE SHOULD BE SET AT LEAST 6 FEET FROM THE TOP TO ALLOW SPACE FOR SHALLOW FROSTING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.
 - SILT FENCES SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP-SLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.



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SLOPE INSTALLATION

- MAINTENANCE REQUIREMENTS:**
- ALL BLANKET AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
 - ANY FAILURE SHALL 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 RESEEDING, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.
- CONSTRUCTION SPECIFICATIONS:**
- MANUFACTURER'S INSTALLATION INSTRUCTIONS:
 - PREPARE SOIL BEFORE INSTALLING POLYMER EROSION CONTROL PRODUCTS (PECP'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.

 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE PECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF PECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE PECP'S WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF PECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE PECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE PECP'S.
 - ROLL THE PECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. PECP'S WILL UNROLL WITH APPROPRIATE SILE AGAINST THE SOIL SURFACE. ALL PECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAPLES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL PECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON PECP'S TYPE.
 - CONSECUTIVE PECP'S SPICED 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 DEPENDING ON PECP'S WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE PECP'S.
 - SITE PREPARATION:

PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATING WITH THE SOIL. GRADE AND SHAPE AREA IF INSTALLATION.

 - REMOVE ALL ROCKS, CLODS, TRASH, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
 - PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 - INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
 - SEED:

SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS NOT RECOMMENDED. SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY).

 - SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS NOT RECOMMENDED. SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY).
 - WHEN SOIL FILLING IS SPECIFIED, SEED THE MATING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO PLACING THE MAT WITH SOIL.

TEMPORARY EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

TEMPORARY VEGETATION:

- CONSTRUCTION SPECIFICATIONS:**
- 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.
 - RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
 - ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

- SEEDING PREPARATION:**
- STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
 - IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
 - APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TUNING IS CRITICAL, FERTILIZER AND LIME/STONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIME/STONE APPLICATION RATE = 3 TONS/ACRE (135 LB./1,000-SF)
*EQUIVALENT TO 800 CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

- SEEDING:**
- APPLY SEED UNIFORMLY BY HAND, CYCLOPE SEEDER, DRILL CULPACKEER 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.
 - TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
 - AREAS SEED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH.
 - VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- MAINTENANCE REQUIREMENTS:**
- TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL 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 SHALL BE RESEED 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 SHALL BE IMPLEMENTED.
 - IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION:

- CONSTRUCTION SPECIFICATIONS:**
- 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.
 - RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
 - ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

- SEEDING PREPARATION:**
- 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 SHALL BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED, ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHENEVER FEASIBLE.
 - REMOVE FROM THE SURFACE ALL STONES, CLODS, OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
 - HYPOTHESEEDING SHALL BE USED WHEN THE SEEDBED IS NOT FEASIBLE TO COMPACT. 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.
 - IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
 - APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TUNING IS CRITICAL, FERTILIZER AND LIME/STONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIME/STONE APPLICATION RATE = 3 TONS/ACRE (135 LB./1,000-SF)
*EQUIVALENT TO 800 CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

- SEEDING:**
- INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
 - APPLY SEED UNIFORMLY BY HAND, CYCLOPE SEEDER, DRILL CULPACKEER 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, CYCLOPE SEEDER OR HYDROSEEDER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT IRON.
 - SPRING SEEDING USUALLY GIVES THE BEST RESULTS. FOR ALL SEED MIXES WITH OR WITHOUT LEGUMES, PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST 30% OF THE SEED SHALL BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WHEN THE SPECIFIED SEEDING DATE, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INHSM, VOL. 3, AND LATE SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
 - AREAS SEED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INHSM, VOL. 3.
 - VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- HYDROSEEDING:**
- 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.
 - SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY).
 - LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED, AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT (UNLESS IT IS USED TO HOLD STRAW MULCH). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
 - SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

- MAINTENANCE REQUIREMENTS:**
- PERMANENT SEEDING AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION.
 - SEEDING AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
 - BASED ON INSPECTION, AREAS SHALL BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
 - AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
 - IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEED, 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 FILL BORROW AND DISPOSAL AREAS	A	TALL FESCUE	20	0.45
		CREEPING RED FESCUE	20	0.45
		PEDICEL TOTAL	42	0.95
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	TALL FESCUE	20	0.45
		CREEPING RED FESCUE	20	0.45
		PEDICEL TOTAL	42	0.95
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE	20	0.45
		CREEPING RED FESCUE	20	0.45
		PEDICEL TOTAL	42	0.95
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	TALL FESCUE	50	1.15
		KENTUCKY BLUEGRASS	50	1.15
		TOTAL	100	2.30

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2005 (IN HSM, VOL. 3)
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

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:

 - IN AREAS THAT WILL NOT BE PAVED:
 - A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
 - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - IN AREAS TO BE PAVED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED.
- TEMPORARY STABILIZATION:

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON 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 SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FOLLOWING FINAL GRADING.
- MINIMUM AREA OF DISTURBANCE:

THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE EXCEED 0.5 ACRES AT ANY ONE TIME. THE DISTURBED AREA IS STABILIZED.
- ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
 - FLAT OR OTHERWISE DISTURBED AREAS MUST BE DISTURBED.
 - EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEANING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-2.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-2.
- REPAIRS REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE COMPLETED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
- SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENCROACH ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLURRING, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
- AREAS TO BE FILLED SHALL BE CLEANED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBSTRUCTIBLE MATERIALS.
- AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
- ALL FILLS SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLURRING, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILLS INTENDED TO SUPPORT BUILDINGS, SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS.
- ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBSTRUCTIBLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY UPGRADES.
- 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 SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
- THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A SLOTTED MAT MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (GLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE BONDING" IN THE INHSM, VOL. 3.
- ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
- USE SLOPE BREAKS, SUCH AS DIVERSIONS, ENDCHISE, OR CONTOUR PURPOSES AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT (UNLESS IT IS USED TO HOLD STRAW MULCH). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
- SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
- PERMANENT SEEDING AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION.
- SEEDING AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
- BASED ON INSPECTION, AREAS SHALL BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
- AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
- IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

- ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2005" (IN HSM, VOL. 3)

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MAINTENANCE REQUIREMENTS:**
- MAINTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWFALL, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL 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 SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN 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, WOODED GROWTH).

- CONSTRUCTION SPECIFICATIONS:**
- THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.
- THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 0.5 ACRES AND BE PROTECTED AGAINST EROSION BY THE METHOD DISCUSSED IN INHSM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.
 - STABILIZATION AS FOLLOWS SHALL 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 GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEED AND COVERED WITH 1 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED KETTLES, OR 2 INCHES OF EROSION CONTROL MAT (PREFER TO INHSM, VOL. 3 FOR SPECIFICATIONS).
 - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERLIE THE SOIL.
 - ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 - JUST PRIOR TO SNOW OR GREATER THAN 1 INCH IN DEPTH, ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACING, WOOD CELLULOSE FIBER).
 - WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX. MULCH SHALL BE REESTABLISHED TO ANY RAIN OR SNOWFALL. NO SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WETLAND OR OTHER WATER RECOVERED AREA.
 - FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEN MATERIAL STOCKPILES CAN MELT IN SPRING AND BECOME UNPERMEABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
 - INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SLOPES OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
 - ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND CHANNELS WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEED AND COVERED WITH 1 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED KETTLES, OR 2 INCHES OF EROSION CONTROL BLANKET. APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STONE 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.
 - STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 - AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 20 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
 - SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BEAMS, OR CONTINUOUS CONTAINED BARRIERS, TO SILT FENCES AND HAY BALES SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

FILE NO. 439
PLAN NO. 8
DWG. NO. 15143 CUP
F.B. NO. SDR "33"

INCOME

Source	Amount
Federal Grant	\$268,665
Economic Loan Program	\$79,852
School St Parking Lot	\$3,240
Housing Loan P/I	\$5,171
Total Program Funding	\$356,928

ALLOCATION

Organization	Priority Ranking*	Amount Requested	Previous Funding	
Administration				
20% of ALL income				\$71,386
Administration	H	\$71,386	\$72,099	
total		\$71,386	\$72,099	
Public Services				
15% of Grant and FY15 Income				\$57,465
Organization				
AIDS Response	H	\$15,000	\$10,000	
Community Partners	H	\$8,208	\$9,000	
Cross Roads House	H	\$12,000	\$12,000	
Dover Welfare Sec Deposit	H	\$8,000	\$9,000	
End 68 Hours of Hunger	H	\$25,000		
HAVEN (A Safe Place)	H	\$5,000	\$5,000	
Homeless Cntr for St Cty	H	\$10,500	\$8,500	
My Friends Place (MFP)	H	\$15,000	\$15,000	
total		\$98,708	\$68,500	
Economic Development				
Loan pool and Admin				\$109,915
Economic Loan Pool**	H	\$79,852	\$74,990	
Economic Loan Pool Admin	H	\$30,063	\$30,063	
total		\$109,915	\$105,053	
Public Facilities/Economic Development				
Remainder of income				\$118,162
Organization/Activity				
CAP (New Office Space)	H	\$85,000		
CAP (Weatherization)	H	\$25,000	\$23,346	
Dover Housing Authority	H	\$200,000		
Triangle Club	H	\$195,000	\$21,000	
Annie E Woodman Inst	M	\$63,225		
Additional Economic Loan Pool	H	\$0		
total		\$568,225	\$44,346	
Grand Total		\$848,234		\$356,928

Total Request of CDBG Funds: \$848,234

Total Allocation of CDBG Funds: \$356,928

* = Per Strategic Plan Chapter of the Consolidated Plan

** = Minimum allotment per CDBG funding requirement = \$79,852

To: Planning Board
From: Dave Carpenter
Date: March 3, 2016
Re: Stewardship Chapter Steering Committee
CC: Christopher Parker, AICP

ISSUE:

Appoint Steering Committee for Stewardship Chapter of the Master Plan.

INTENT:

This memo will provide a brief background for the project and list recommended candidates for the Stewardship Chapter Steering Committee.

GOALS:

Appoint Members to Serve on the Steering Committee for the Stewardship Chapter project.

PROCESS:

After meeting with interested participants, staff has developed a list of members for the Planning Board to consider for Stewardship Chapter Steering Committee.

ATTACHMENTS:

- none

The City will be developing a new Chapter of the Master Plan that will address six topic area. Specifically, the *Stewardship of Resources* Chapter will address the following topics: Energy, Natural Resources, Historic and Cultural Resources, Coastal Management, Natural Hazards and Social Capital.

The six topics to be addressed in the Stewardship of Resources Chapter were identified during the visioning process and are found across 5 of the 8 overarching Vision Themes upon which the Vision Chapter is based. These Themes are:

- 1.0 People & Community
- 2.0 Downtown
- 4.0 Municipal Government & School Services
- 5.0 Open Space & Recreation
- 7.0 Sustainability

The City has hired a consultant team to assist with the development of the Chapter. The Steering Committee will provide guidance and feedback for the consultant and staff throughout the process. The targeted timeframe for service on the Committee runs from March through August of this year.

The Planning Board is asked to appoint the seven members listed below. Before generating the list, I met with 9 people of which 5 were citizens who responded to a notice we issued seeking volunteers. The list provides representation from the City Council, Planning Board, Conservation Commission, Heritage Commission and Energy Commission. Completing the seven-member committee are two of the five citizens who expressed interest in participating in this process.

Bob Carrier
David Landry
Cora Quisumbing-King
Elizabeth Goldman
Otis Perry
Allison Webb
Lindsey Williams

City Council
Planning Board
Conservation Commission
Energy Commission
Heritage Commission