Packet: 3/27/2019

Mansfield Drive Subdivision STAFF REPORT

March 27, 2019

SITE: Mansfield Drive – Map 147/Lot 24 – SB# 05-18

ZONING: R-1

PURPOSE OF PLAN: to subdivide one lot into eight residential building lots and create Mansfield Drive, part of which is an existing Right of Way.

PLAN UNDER REVIEW: Subdivision Plan Mansfield Drive & Derry Lane, Hudson, NH, prepared by Maynard & Paquette Engineering Associates, LLC, 31 Quincy Street, Nashua, NH 03060, dated March 1, 2018, last revised March 20, 2019, received March 22, 2019, and consisting of 11 Sheets and Notes 1-21.

ATTACHMENTS:

- A. Subdivision Application
- B. Memo from Town Engineer, Elvis Dhima to Town Planner, Brian Groth, dated March 22, 2019.

WAIVER REQUESTS:

1. §276.1.B.3 – location of revision block

STAFF COMMENTS:

This plan proposes an eight (8) lot subdivision and the establishment of Mansfield Drive. A portion of the Mansfield Drive Right-of-Way already exists as a "paper street" off of Derry Lane. Public sewer and water will be brought to the development through an existing easement from Berkley Drive.

This application has undergone three rounds of reviews by the consulting engineer (Fuss & O'Neill) and the Town Engineer. The applicant has substantially complied with the engineers' comments with a few minor exceptions. These exceptions can be addressed with a condition of approval that requires the Town Engineer's final approval. Last, the revision block should be updated to reflect the most recent round of revisions.

During the Board's October 24, 2018 meeting which discussed the plan on a conceptual level, the issues of road width and sidewalks were discussed. Staff believes the current plans reflect the desire of the Board and Town Staff, with a 24 foot wide road and a 5 foot sidewalk. Since the regulations currently require a 28 foot wide road, an additional Planning Board action is required, which is included in the DRAFT MOTIONS section of this report.

Should the Board wish to approve the plan, it is recommended that active substantial development be defined. Staff suggests that active and substantial development has occurred when:

- A. Tree clearing within dedicated right of way
- B. Stump removal within dedicated right of way
- C. Top soil removal within the dedicated right of way
- D. Construction entrance installation
- E. Erosion control in place
- F. Rough grading of the proposed road envelope

APPLICATION TRACKING:

- 21 MARCH 2018 Subdivision Application submitted.
- 9 APRIL 2018 CLD/Fuss & O'Neill comments received.
- 28 SEPTEMBER 2018 Subdivision Plan resubmitted for conceptual review.
- 22 OCTOBER 2018 CLD/Fuss & O'Neill comments received.
- 24 OCTOBER 2018 Conceptual Review hearing scheduled.
- 1 MARCH 2019 Subdivision Application revised 2/20/19 submitted.
- 19 MARCH 2019 CLD/Fuss & O'Neill comments received.
- 22 MARCH 2019 Revised plan set submitted.
- 27 MARCH 2019 Public Hearing Scheduled.

RECOMMENDED ACTION: Staff recommends application acceptance, conduct of the public hearing, and consideration of subdivision approval in accordance with the below DRAFT MOTIONS. In the event that the Board determines more time is needed to review the application, a motion for deferment is provided after the draft acceptance motion.

DRAFT MOTIONS

DRAFT MOTION TO ACCEPT:

I move to accept the 147/Lot 024.	Subdivision/Site Plan applic	ation for Mansfield Drive Subdivision, Map	
Motion by:	Second:	Carried/Failed:	
DRAFT MOTION	TO DEFER:		
		vision/Site Plan application for Mansfield Dri the April 10, 2019 Planning Board meeting.	ve
Motion by:	Second:	Carried/Failed:	

WAIVER REQUESTS:

1. §276.1.B.3 – location of revision block

I move to grant the requested waiver of §276.1.B.3 – Location of revision block on the testimony of the Applicant's representative, and in accordance with the language included in the submitted Waiver Request Form for said waiver.

Motion by:	Second:	Carried/Failed:	
SPECIAL MOTIC	ON:		
	ne provisions of §276.1.B. or a 24 foot wide roadway.	3 and §289-28.B.(2) that require	a 28 foot wide
Motion by:	Second:	Carried/Failed:	

DRAFT MOTION to APPROVE:

I move to approve the subdivision/site plan entitled: Proposed Site Plan for Marco Plante, Tax Map 206 Lot 1, by Beals Associates and S&H Land Services, with cover sheet dated July 20, 2018, last revised on August 30, 2018, consisting of Sheets 1 - 12 and Notes 1 – 9 on Sheet 1 of 12 subject to the following stipulations:

- 1. All stipulations of approval shall be incorporated into the Notice of Decision, which shall be recorded at the HCRD, together with the Plan.
- 2. A cost allocation procedure (CAP) amount of \$5,813 per residential lot shall be paid prior to the issuance of a Certificate of Occupancy for the new house lot.
- 3. All monumentation shall be set or bonded for prior to the Planning Board endorsing the Plan-of-Record.
- 4. Approval of this plan shall be subject to final review and approval by the Town Engineer.
- 5. Construction activities involving the proposed undeveloped lots shall be limited to the hours between 7:00 A.M. and 7:00 P.M., Monday through Saturday. No exterior construction activities shall occur on Sunday.
- 6. Active and substantial development will have occurred when:
 - A. Tree clearing within dedicated right of way
 - B. Stump removal within dedicated right of way
 - C. Top soil removal within the dedicated right of way
 - D. Construction entrance installation
 - E. Erosion control in place
 - F. Rough grading of the proposed road envelope

Motion by:	_Second:	Carried/Failed:

Packet: 3/27/2019

Roadway Width Regulation Amendment Pre-Hearing Review STAFF REPORT

March 27, 2019

PURPOSE:

To consider changing the required roadway width for cul-de-sacs from 28 feet to 24 feet. Should the Board wish to, a motion should be made to move the amendment to a public hearing, date certain. NOTE: The referenced illustrations will be revised to reflect any changes approved by the Planning Board.

PROPOSED AMENDMENT: (Proposed amendment indicated by strikethrough text for wording to be deleted and bold text for wording to be added.)

ARTICLE III General Requirements

§ 289-18. Streets.

- B. Cul-de-sac roads.²
 - (1) RIGHT-OF-WAY and pavement widths. Culs-de-sac, or deadend streets, designated to be permanently closed at one end, shall have a RIGHT-OF-WAY width not less than 50 feet leading up to the turnaround. The pavement width leading up to the turnaround shall be 28 24 feet. The pavement width for the turnaround shall be 28 24 feet.
 - (2) Cul-de-sac roadway length. A cul-de-sac STREET shall not exceed 1,000 feet in length, and shall measure from the center point of the outside edge of the cul-de-sac turnaround to the point of intersection at the center line of an intersecting street. Said intersecting STREET shall have, at minimum, two intersections with other streets, leading to a collector/arterial STREET or limited-ACCESS HIGHWAY.

ARTICLE VI

§289-28. Requirements

B. The paved roadway shall have a minimum width in accordance with the type of street, as defined in § 289-3, as follows:

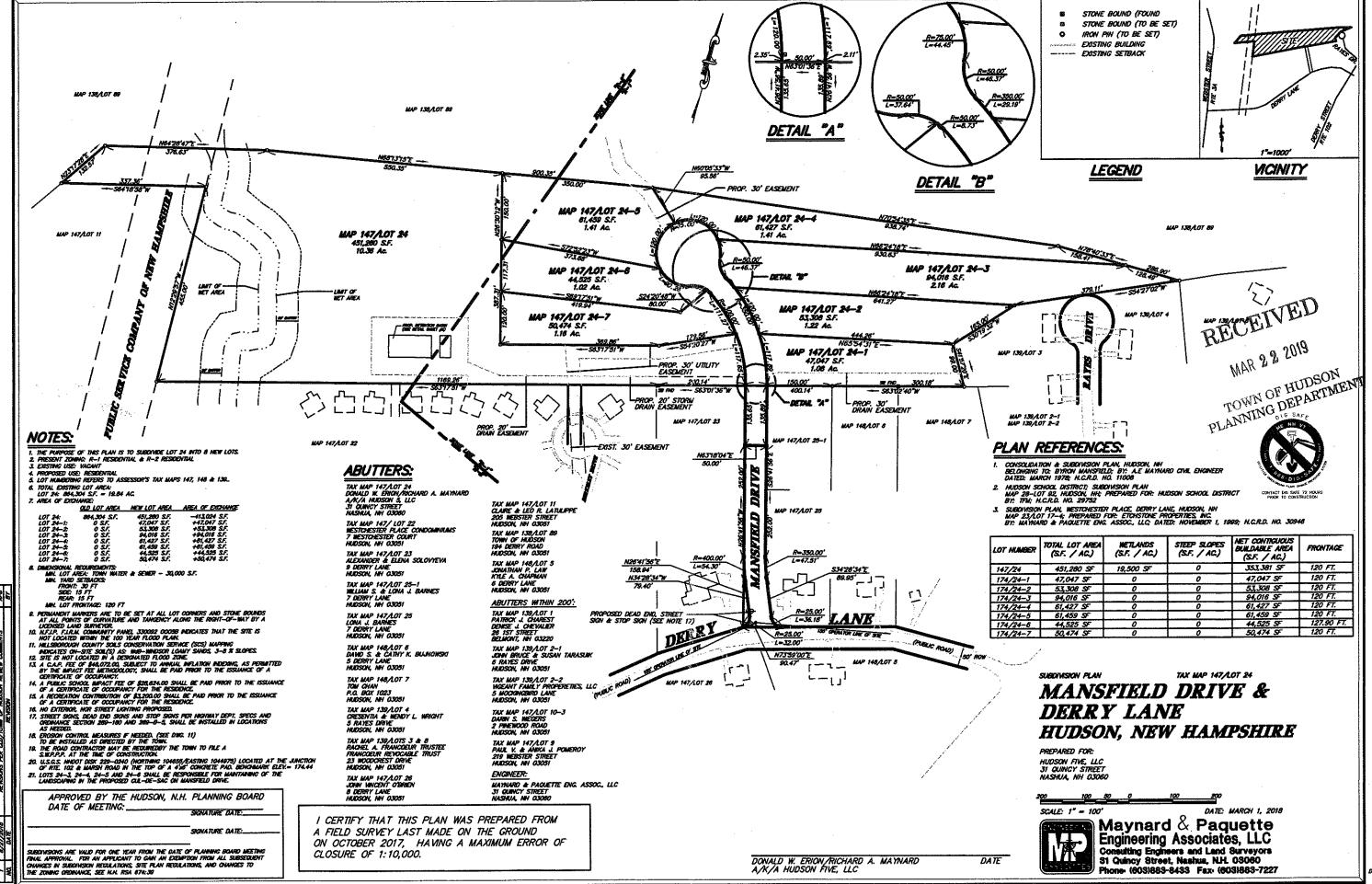
² Editor's Note: The Typical Offset Cul-De-Sac illustration and the Typical Straight Cul-DeSac illustration are included as attachments to this chapter.

- (1) Major streets, collector streets and commercial streets shall be paved a minimum of 36 feet or wider where the PLANNING BOARD determines that the nature and/or intensity of the proposed use would require a wider pavement.
- (2) Residential streets, service streets and access streets of 1,000 feet in length or less shall be paved 28 24 feet wide. Residential streets, service streets and access streets greater than 1,000 feet in length shall be paved 28 feet wide.

DRAFT MOTIONS:

Regulations, date s	pecific, to the April 24, 2019 mee	eting.
Motion:	Second:	Carried/Failed:
I move to schedule Hudson Land Use l		19, regarding the proposed amendments to the
Motion:	Second:	Carried/Failed:

I move to continue the pre-hearing review of the proposed amendments to the Hudson's Land Use



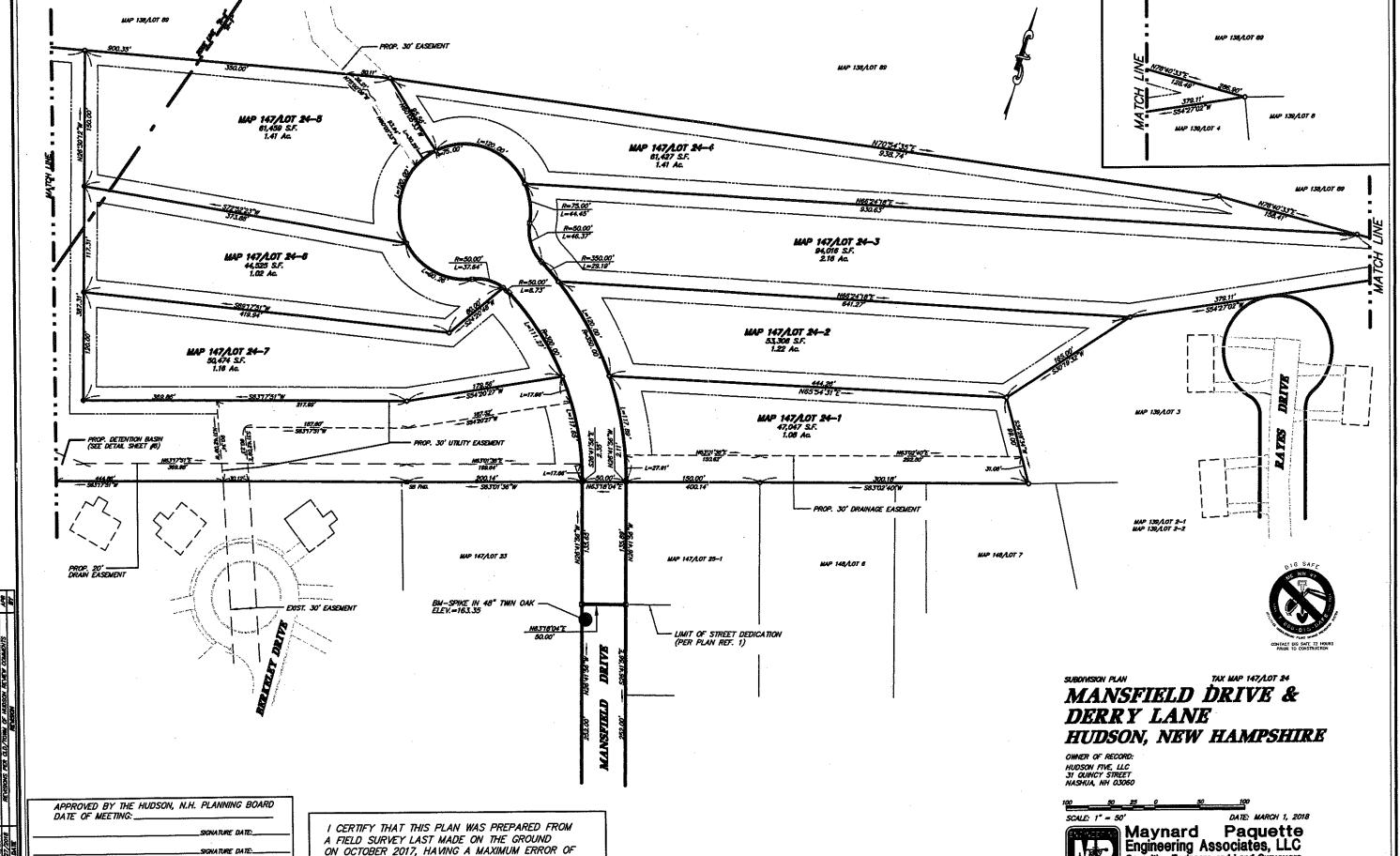
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SIGNATURE DATE:

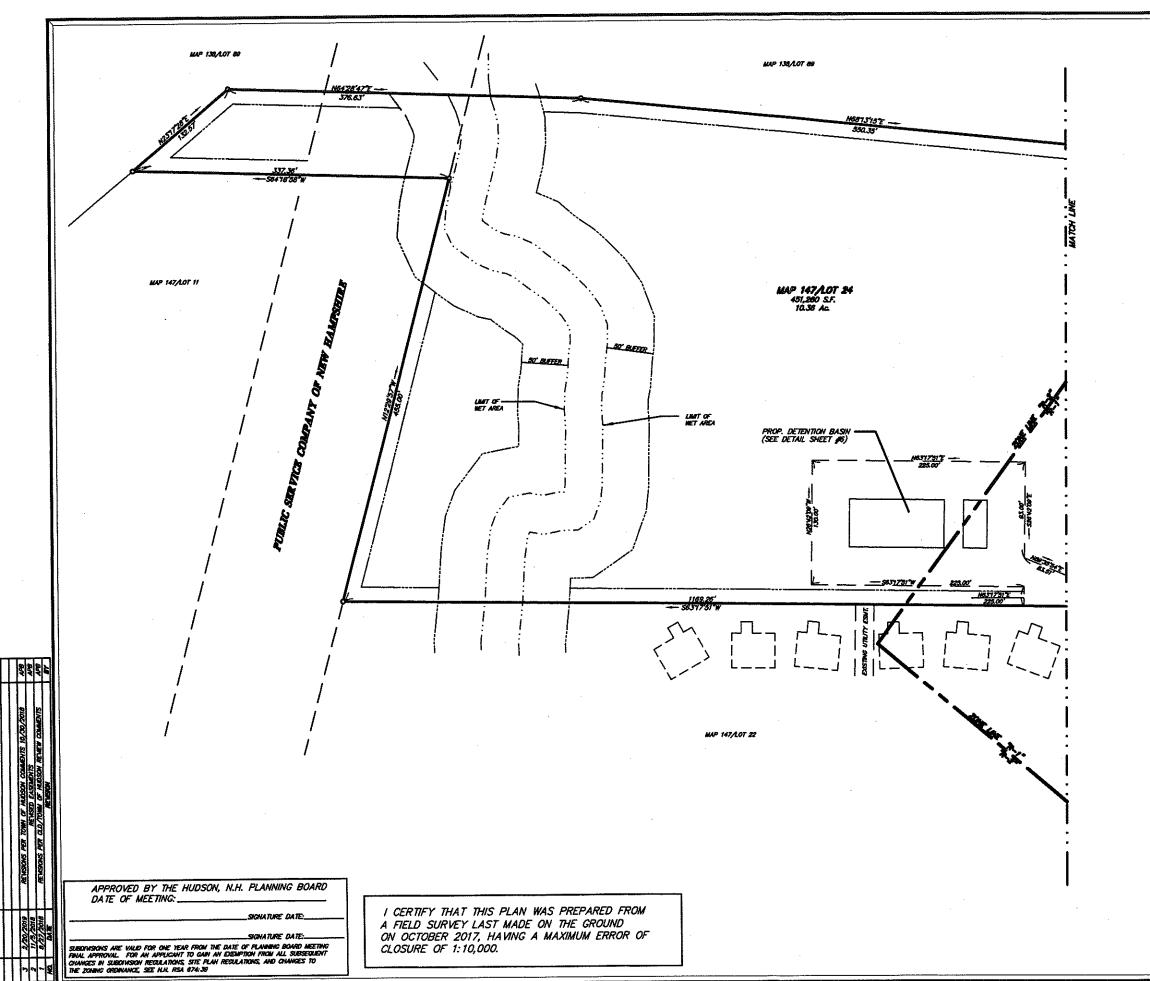
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Consulting Engineers and Land Surveyors 31 Quincy Street, Nashua, N.H. 03060 Phone (603)863-8433 Fax (603)883-7227

APB





SUBDIVISION PLAN

TAX MAP 147/LOT 24

MANSFIELD DRIVE & DERRY LANE HUDSON, NEW HAMPSHIRE

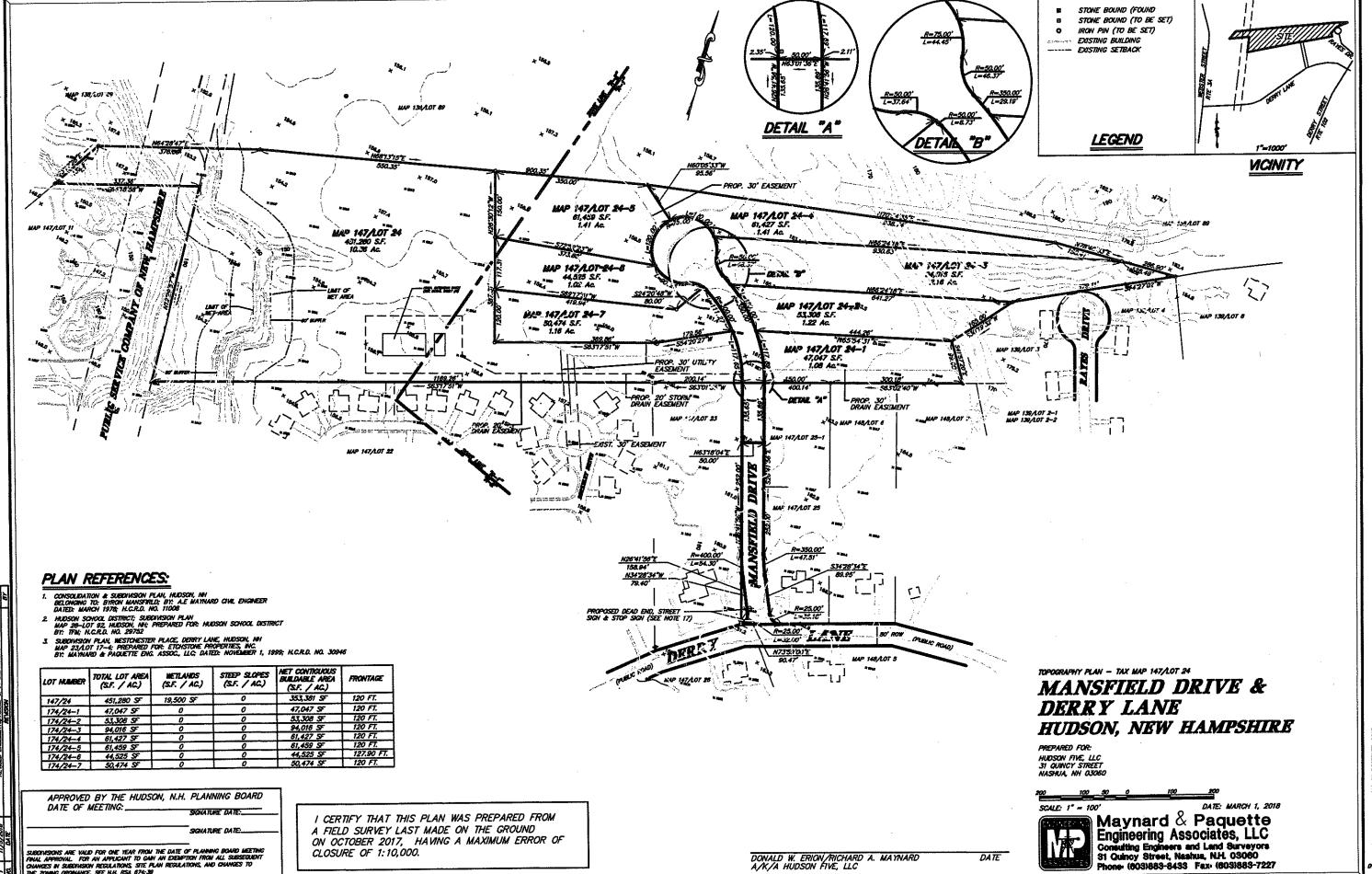
OWNER OF RECORD: HUDSON FIVE, LLC 31 QUINCY STREET NASHUA, NH 03060

SCALE: 1" = 50"



Maynard & Paquette Engineering Associates, LLC Consulting Engineers and Land Surveyors 31 Quincy Street, Nashua, N.H. 03060 Phone: (603)883-8433 Fax: (603)883-7227

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DATE

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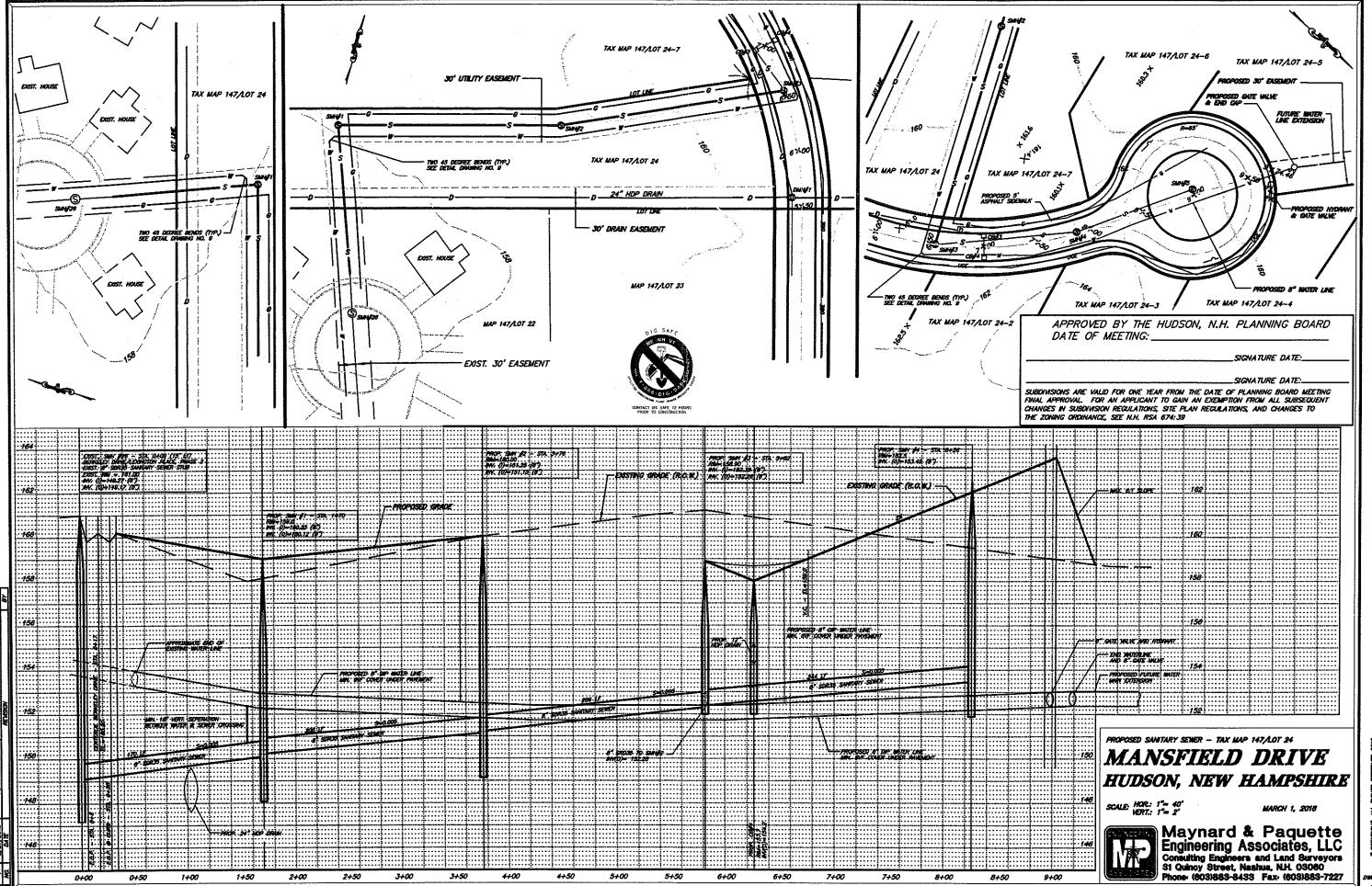
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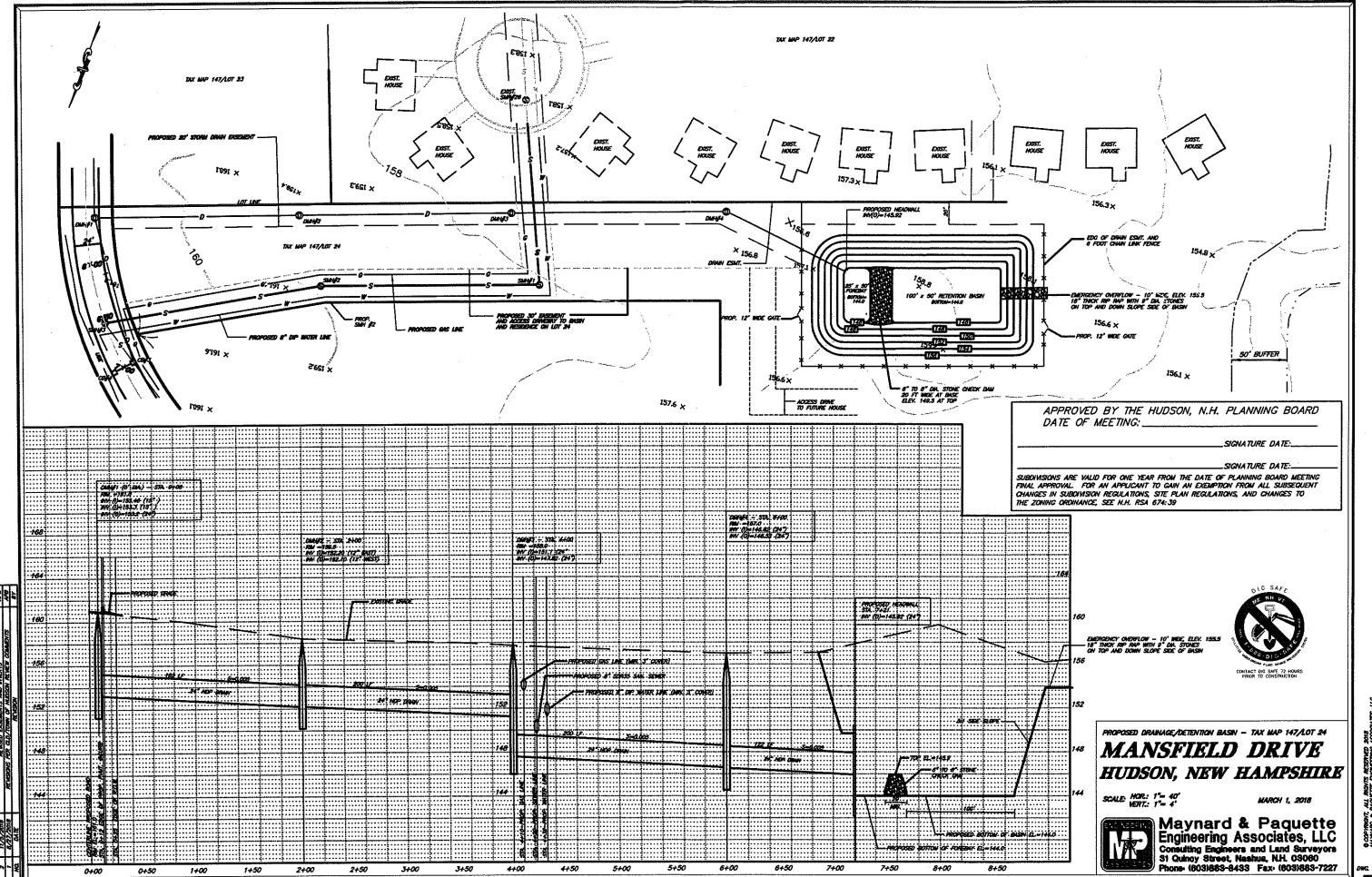
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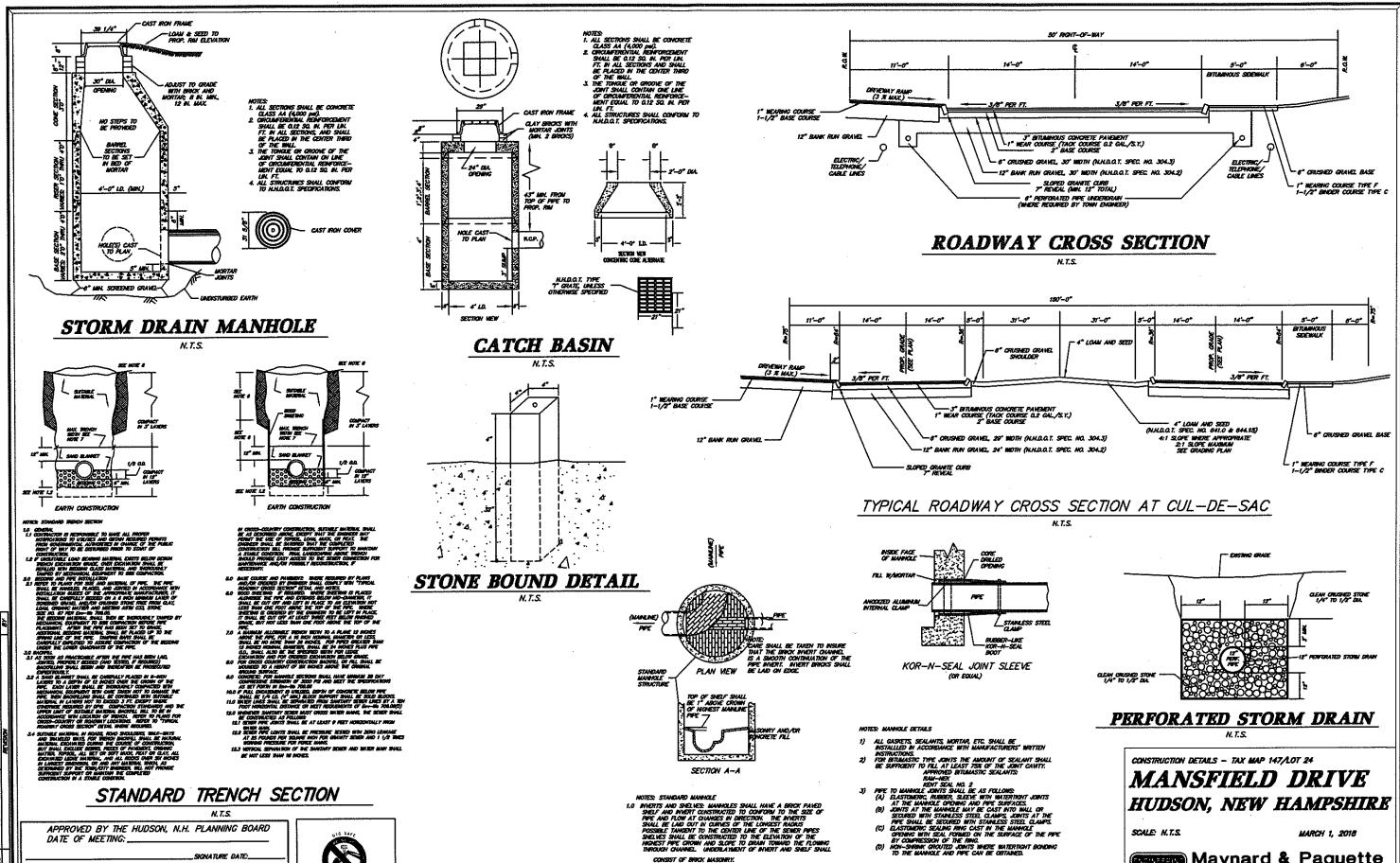
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DATE OF MEETING: _

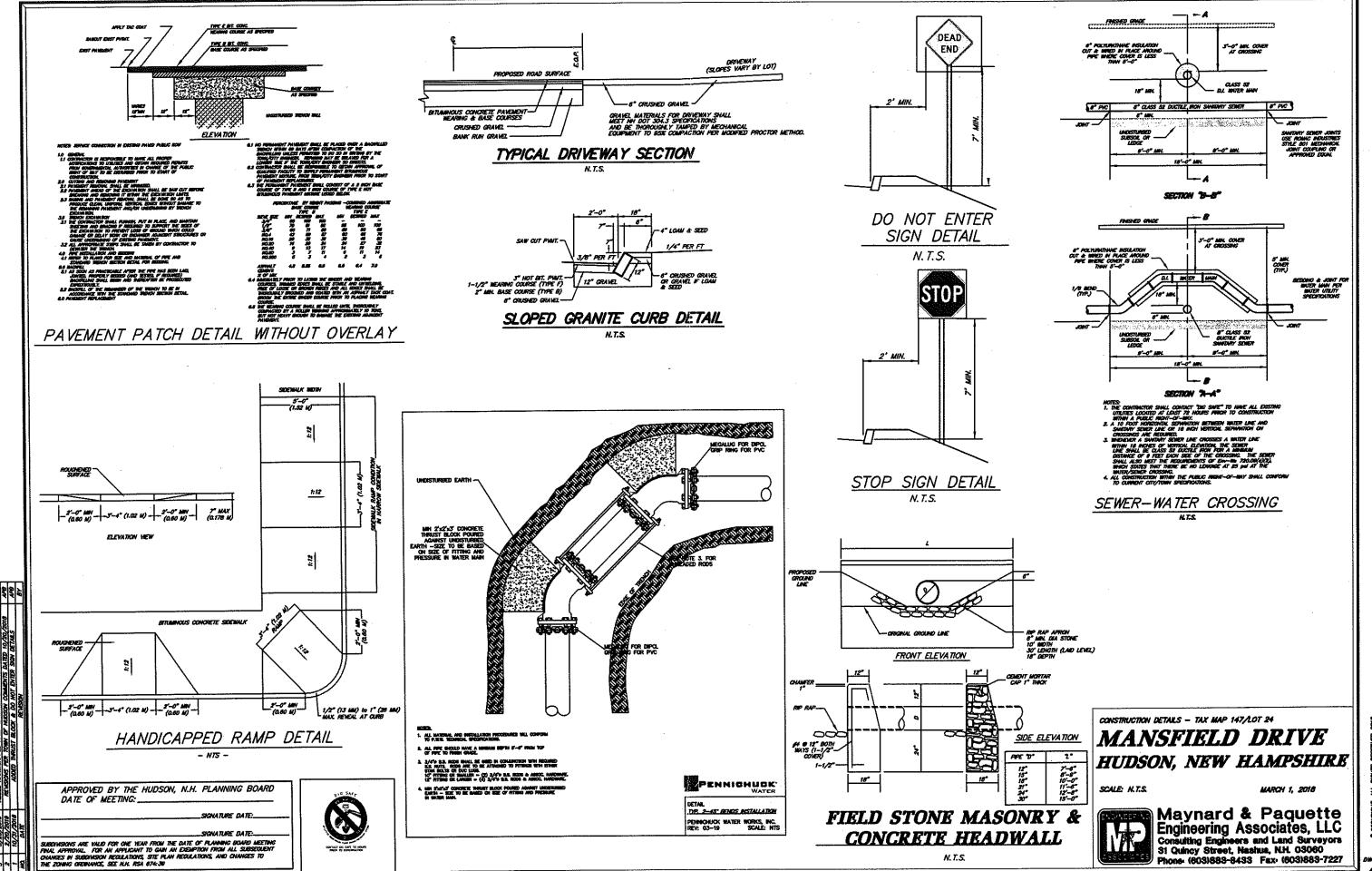
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MARCH 1, 2018 Maynard & Paquette Engineering Associates, LLC Consulting Engineers and Land Surveyors 31 Quincy Street, Nashua, N.H. 03060 Phone (603)883-8433 Fax: (603)883-7227

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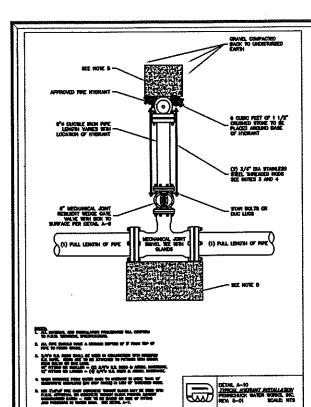


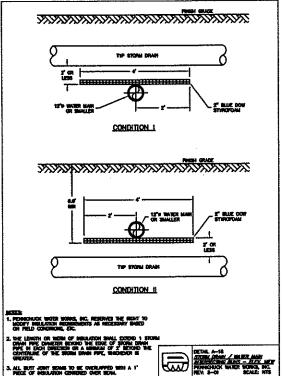
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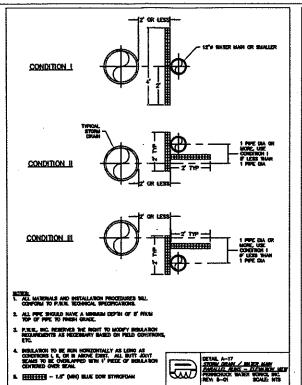
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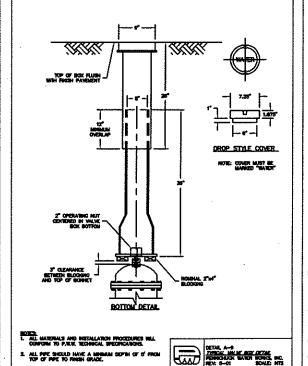
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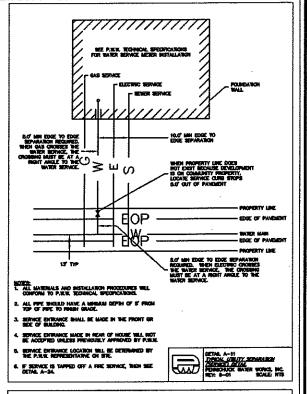
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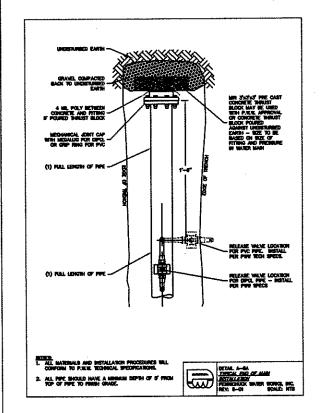


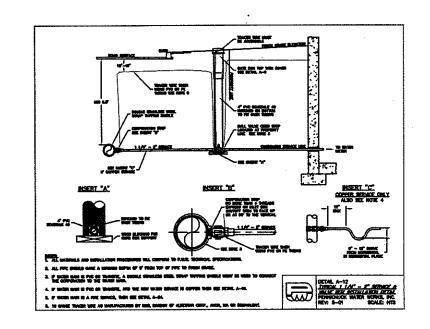


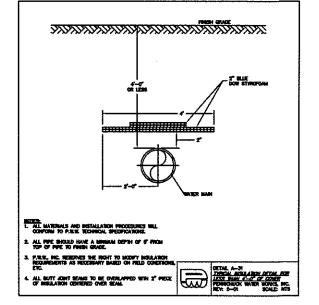


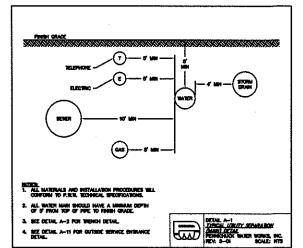


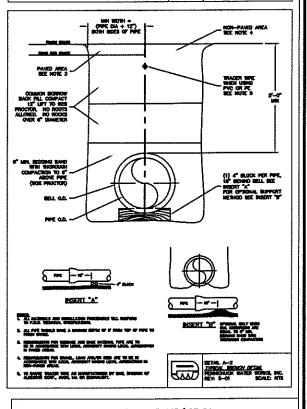


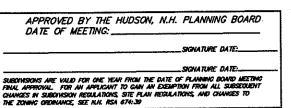
















SCALE: N.T.S.

MARCH 1, 2018



Maynard & Paquette Engineering Associates, LLC Consulting Engineers and Land Surveyors 31 Quincy Street, Nashua, N.H. 03060 Phone: (603)883-8433 Fax: (603)883-7227

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MATHARD & PACKETTE ENGNEERING ASSOCIATES, LLC
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EROSION AND SEDMENT CONTROL PRACTICES INCLIDE THE USE OF THE FOLLOWING STRAW BALE BARNERS, SLT SCREEN FENCE BARNERS, TEMPORARY SEDMENTATION BASINS, PERMANENT DETENTION/SEDMENTATION BASINS, GRASS AND/OR ROCK LINED SIMLES, DIMENSIONS WITH LEVEL SPREADERS.

- 1. ALL PERMANDIT AND TEMPORARY EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "STORM WATER MANAGEMENT AND EROSION AND SEDIENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS OF HER HAMPSHIT", AUGUST 1882, PREPARED BY MINIES AND ROCK IN COOPERATION WITH USDA—

- BE PAINED.

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 A MEMBARY OF 3" OF NON-EROSHE MATERIAL SUCH AS STONE
 OR REPROP HAS BEEN INSTALLED, OR

 EROSHOL COMPOCE BLANKETS HAVE BEEN PROPERLY INSTALLED.

 MITTER CONSTRUCTIONS.
- LENGION CONTROL BLANCTS HINE BEEN PROPERLY INSTILLED. INTER CONSTRUCTION.

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- OF MATERIAL DERINAGE AND WATERWAYS.

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 STROM MIND/OR HAY MALCH SHALL BE MONINGS OF ACCEPTABLE HERBACEOUS.

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- G. STINUTURUM, MEASURES

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 BITCHCOPP RUMOFF AND DIVERT IT FROM THE ADDITIONAL PROPERTION POWN. ETC.)
 OR TO REDUCE THE VELOCITY OF RUMOFF FLOWING DOWN FROM A CHAMAGE
 AREA. (SEE DETAIL FOR ADDITIONAL REPORATIONS POWN FROM A PRANAGE. AREA. (SEE DETAIL FOR ADDITIONAL INFORMATION.)

- TOPPOR STOOMPILMS TOPPOR SHALL BE STIMPPED AND STOOMPILD FOR LATER USE ON OUTLOAL AMEAS AND ALL OTHER AREAS TO BE SEXUED. THE STOOMPIL BUT NOT BE COMPACTED AND SHALL BE STABILIZED AGAINST EPICSON WITH TEMPORARY SEXUANS.

 2. TEMPORARY SEXUANS.

 3. TEMPORARY SEXUANS.

 4. BECOMON-PERMONE STOMES AND TRASH THAT WILL INTERFERE WITH SEXEMAN.
- BELONG-RESIDUE STONES AND TRASH THAT WILL WILLDESS WITH SELLAND WE AREA WHORE FEASILE TIL THE SOIL TO A DEPTH OF ABOUT 3" TO PROPARE SEID BED AND MAY THE FORTILIZER WITO THE SOIL FRITTIZER FORTILIZER STONEAUS E (MOVEMELY SPIELD) OFFER THE AREA PRIOR TO BENOW TILLED WITO THE SOIL A 10-10-10 MIX OF FETTILIZER SHOULD BE APPLIED BY A RATE OF SOIL BELANDED, OR 7 LIES PER 1000 S.F.

e SED MIXTURE: USE ARY OF THE POLLUMING			
SPECIES	SEEDING RATE	DATES	DEPTH
	PER ACRE PER 1000 S.F.	<u> </u>	
HEYTER RYE	112 LBS 2.5 LBS	8/15-9/5	1 RV
GA 75	80 LBS 2.0 LBS 3	PRING-15-5/5	1 N
RYEGRASS (ANNUAL)	40 LBS 1.0 LBS	4/15-8/15 (W/MULCH)	0.25 W

- 4. MALCHING WHERE IT IS BAPPACTICAL TO INCOMPGRATE FERTILIZER AND SEED MITO MICHTS SEED, THE SEEDED AREA SHOULD BE MALCHED TO FACULTATE DEPARATION. MALCH IN THE FORM OF STRAW SHOULD BE APPLIED AT A RATE OF TO TO 90 LBS/1000 S.F.
- AT A RATE OF 70 TO 90 LBS/1000 S.F.
 FERMANENT SEEDING.
 A BELDING-STONES LARGER THAN 4", TRASH, ROOTS, AND OTHER DEBRIS THAT
 INTERFERES WITH SEEDING AND RUTHER MANTENANCE OR THE AREA SHOULD
 BE REMOVED. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH
 OF 4" TO PREPARE A SEEDIND AND MIX FERTILIZER INTO THE SOIL. THE
 SEED BED SHOULD BE LIFT IN A REASONABLY FIRM AND SMOOTH
 CONDITION.
- CONDITION.

 IN FETTILIZER-LIME AND FETTILIZER SHOULD BE APPLED EVENLY OVER THE AREA PRIOR TO OR AT THE TIME OF SEEDING AND SHOULD BE INCOMPORTAL WITO THE SOL, HORISON AND AMOUNTS OF LIME AND PETTILIZER SHOULD BE BASED ON AM EVALUATION OF SOL TESTS. WHEN A SOL TEST IS NOT AMBIABLE, THE FOLLOWING IMPRIMA MACRIMIS SHOULD BE APPLED: ASSICLE THE OLD LIMESTAND OF SOL TESTS.

10-20-20	FERTILIZER	# 12	LBS/1000	S.F.
COURS ARREST	TIDE ARRAN		CT P4781	

c SEED MIXTURE (RECOMMENDED RATE)			
TYPÉ	LBS/ACRE	LBS/1000 S.F.	USE
TALL FRESQUE CREEPING RED FRESQUE	20	0.45 0.45	STEEP CUTS AND FILLS DETENTION BASINS
RED TOP	42	0.50 2.30	SWES
TOTAL	142	2.00	
CREEPING RED FRESQUE	50	1.15	ALL OTHER AREAS
KENTUCKY BLUEGRASS	50	1.15	ALL OTHER AREAS
TOTAL	100	2.30	l

D. MIRICHENG: MULCH SHOULD BE USED ON HIGHLY ERODABLE SOILS. ON CRITICALLY ERODING AREAS, AND ON AREAS INNERE CONSERVATION OF

TIPE	RATE/100 S.F.	USE AND COMMENTS
HAY OR STRAW	70-90 LBS	MUST BE DRY AND FREE FROM MOUD MAY BE USED WITH PLANTINGS.
WOOD CHEPS/BARK	AS PER MANUFACTURERS' SPECIFICATIONS	USED MOSTLY WITH TREES AND MULCH-SHRIPS PLANTINGS
JUTE AND FIGROUS MATTING	AS PER MANUFACTURERS' SPECIFICATIONS	USED IN SCOPE AREAS, WATER COURSED AND OTHER AREAS
CRUSHED STONE	SPREAD MORE	EFFECTIVE IN CONTROLLING WHO AND WATER EROSION

E SODOMIC SODOMIC IS DONE WHERE IT IS DESIRABLE TO RAPPLLY ESTABLISH COURT ON A DISTINUED MEA. SODOMIC ON AREA MAY BE SUBSTITUTED FOR PERMANENT SEEDING PROCUPERS ANYWERE ON SITE. BED PREPARATION, PERTILIDING, AND PLACEMENT OF SOD SHALL BE PERFORMED ACCORDING TO THE S.CS. HAMBBOOK.

SODOING IS RECOMMENDED FOR STEEP SLOPED AMEAS, AREAS BAMERIATELY ADJACENT TO SENSITIVE WATER COURSE, EASLY ERODABLE SITES (FINE SANOS/SLTS), ETC.

Durbing the Petrod of Construction and/or Until Long Term Necetation is established.

- 1. SEEDED AREAS WILL BE FERTILIZED AND SEEDED AS NECESSARY
 TO INSURE VECETATIVE ESTABLISHMENT.
 ADDITIONAL STOKE WAY HAVE TO BE ADDED TO THE CONSTRUCTION
 ENTRANCE, ROCK-LIRED SHALES, ETC. PREDICIOLALLY, TO MAINTAIN THE
 PROPER FUNCTIONING OF THE ENGANCY CONTROL STRUCTURE.
 3. BROSSIN CONTROL MEASURES SHALL BE INSPECTED WEDLLY AND AFTER
 EVERY OS MICHES OF RAMFALL.

E. SEQUENCE OF CONSTRUCTION

- 1. ALL EMPORARY EROSION CONTROL MEASURES SHALL ME RISTALLED AS SHOWN ON THE PLANS. THESE MEASURES SHALL BE MANTAHED THROUGHOUT HE CONSTRUCTION PROCESS AND SHALL BE CLEMED AND REPLACED AS NECESSARY. ADDITIONAL ENGINE CONTROL MEASURES SHALL BE RISTALLED AS NECESSARY SHOULD DEVELOPING STE CONDITIONS IMPRIMED.
- MESSIRES SHALL BE INSTALLED AS RECESSION'S SHOULD CENTUREN SHAPMED.

 2 THE LIMIT OF THE CLEARING AND DENOLITION SHALL BE MARKED BY THE OWNER, PROMISE TO THE FACE. ALL CLEARING OFFICIATION STIE BOTH AND DENAME CONSTRUCTION SHALL BE CONDUCTED ONE PHASE AT A TIME.

 3. WHEN THE CLEARING OFFICIATION IS COMPLETE. CONSTRUCTION SHALL BEEN ON THE MAIN CONSTRUCTION ENTIRED. APP FAP (TRAP-PROCE) SHALL BEEN FLACED ACROSS THE FILL WOTH OF THE ENTIRED. FOR A STOKEN OF THE PLANS. AS THE THE PRESCRIES CLOCKED AMOUNT CONED WITH SEDMENT, ADDITIONAL 2 TO 3 MAIN STOKE SHALL BE LAD DOWN TO MAINTAIN THIS AREA. ALL TRAFFIC ENTRY THE STE SHALL ONSS OVER THIS PREPARED CONSTRUCTION ENTRANCE.

SETUDICATIONS FOR STARRIED CONSTRUCTION EXTRANCE.

- A- STONE SIZE: Z TO J MICH DIAMETER B- LENGTH: NOT LESS THAN BO FEET C- THORNESS: NOT LESS THAN 6 MORE
- B- LEWITH: NOT LESS THAM BO FEET.

 O- THOODESS MOT LESS THAM BO FEET.

 D- WORDS THE FEET WARRAL, BUT NOT LESS THAM THE FULL WOTH AT FORM'S WHERE LEWILS SHOUSS AND EDGESS.

 E- FLET GLOTH WILL BE FLACED OFFI THE DAMPE AREA PHORT TO MAKEN THE STOPE.

 F- ALL SUPPLIES SHALL BE PHOD ACROSS THE CHITCHOLE OF FRANCE SHALL BE PHOD ACROSS THE CHITCHOLE OF FRANCE SHAPPING CONSTRUCTION OF SHAPPING CONSTRUCTION.

 AN APPLICATION. A MOUNTABLE WERM WITH SET SLOPES WILL BE PROMITED.
- MOTIFICATION, A MOUNTAINE MEMI WITH ST SLOPES WILL BE PRIMITED.

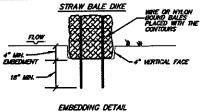
 THE ENTINEES SHALL BE MANDARD BY A COMOTION WHICH WILL PREVENT TRADOGRAM OF FLOWING OF STREAM HOUT OF THE MEMIC BRANCH THE PRESENT WITH PAUL THATS.

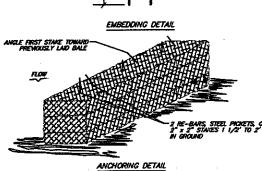
 OF WITH THIS MAY REQUIRE ADDITIONAL TOP DRESSING WITH ADDITIONAL STORES AS CONSTRONGS DELIVED AND REPAIR AND/OR CLEMENT OF ANY MANDARS USED TO THAT SECURITY.

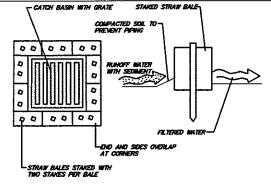
 PRINCIPLE REPETITION AND MANITEMANCE SHALL BE PROVIDED AFTER EACH PROPRIET.

- A TEMPORARY EROSON CONTROL MEASURES SHALL ME INSTALLED ANOUND ALL DISTING CATCH BUSING AND DRAINING COLLETS. THESE MEASURES SHALL ME MANTANED IN PLACE LIVEL NEW DIMENSE STRUCTURES AND MEASURES SHALL ME MANTANED IN PLACE LIVEL NEW DIMENSE STRUCTURES AND ME RISTALLED AND FANCTIONING. MESS MEASURES SHALL ME ANTIMED THROUGHOUT THE PLANS. THESE MEASURES SHALL ME ANTIMED THROUGHOUT THE CONTROL MEASURES SHALL ME ANTIMED THROUGHOUT THE CONTROL MEASURES SHALL ME ANTIMED THROUGHOUT THE CONTROL MEASURES SHALL ME ANTIMED THROUGHOUT THE MESSARY. SHALL ME CHANGED AND MERALOD AS MECESSARY. SHALL DE CHANGED AND METALOD AS MECESSARY. AND MEASURE SHALL ME PANDAD DISTRICTURE DEPOSIT ON METALOD AS MECESSARY. AND MEASURE TO MEASURE METALOD AND METALOD AS MALL ME PANDAD DISTRICTURE PROVED THE MEASURE AND METALOD AS MALL ME PANDAD DISTRICTURE PROVED THE METALOD AND METALOD AS MALL ME STORED IN MEAS DESIGNATED ON THE PLANS. ANY STOLEDED METALOD AND METALOD AS MALL ME STORED IN MEASURE DEPOSIT TO THE METALOD AND DISTRICTURE STANDARD PROVIDE THE METALOD AND DISTRICTURE STANDARD PROVIDE THE METALOD AND DISTRICTURE STANDARD PROVIDE THE METALOD. SHALL ME STANDARD PROVIDE THE METALOD AND SHALL METALOD TO MENDE THAN 40 ONES. A TIPE DEPOSITION OF METALOD AND STEES SHALL ME ONE STANDARD OF THE METALOD. SHALL ME STANDARD TO ME MEASURE SHALL ME STANDARD STEES SHALL ME ONE STANDARD OF THE MEASURE SHALL ME METALOD. SHALL ME STANDARD TO MEASURE SHALL MEASURE SHALL ME METALOD AND META
- WHAT SE NITTHIED AROUND ALL DRAWING STRUCTURES BREDIA BLY AFTER RESTAULABLY BUT AROUND ALL DRAWING STRUCTURES BROUGHT IN A LLL CLOSED DRAWING SHALL BE RISTAULD AS THE STE SHOUGHT IN GRADE BUT THE REACHED FINAL DESIGN GRADE, ALL SIDE SUPERS SHALL BE PERMANDARY IN LONDON ON SECRETA BLY AROUND SECRETARY SHALL BE STRUCTURED WITHOUT YOUNGED AND SECRETARY AND SECRETARY AND THE STRUCTURES SHOULD BE ACCOMPLISED WHEN TO AND PURPOSED THE AFTER WHAT THE ACCOUNTS OF WITHOUT A MEALTH'S STAND OF RECETAINEN PROPERTY TO AND OF RECETAINEN AND THE EVENT WHAT SECRETARY AND AND THE SECRETARY PROSPECT CONTROL DEVICES IN ANY PROSPECT CONTROL DEVICES IN ANY PROSPECT CONTROL DEVICES IN ANY PROSPECT CONTROL DEVICES IN PLACE LIFTE, ALL DESTRUCTION PROSPECT CONTROL DEVICES IN PLACE LIFTE, ALL DESTRUCTION PARKES HAVE ACCOUNTED FRANCES FOR ANY COMER.

 12. AFTER RAND CONSTRUCTION (PANNE) IS COMPLETE MED ALL DESTRUCTION PACES IN THE RECEIPED AND PROSPECT CONTROL DEVICES IN PLACE LIFTE, ALL DESTRUCTION PANNES IS COMPLETE MED ALL DESTRUCTION PARKES IN PLACE LIFTE. ALL DESTRUCTION PANNES IS COMPLETE MED ALL DESTRUCTION PARKES IN PLACE LIFTE. ALL DESTRUCTION PARKES IN PLACE LIFTE. ALL DESTRUCTION PANNES IS COMPLETE MED ALL DESTRUCTION PARKES IN PLACE LIFTE. ALL DESTRUCTION PANNES IS COMPLETE MED ALL DESTRUCTION PARKES IN PLACE LIFTE. ALL DESTRUCTION PARKES IN DESTRUCTION PARKES IN PLACE LIFTER PARKES PARKES IN PLACE LIFTER PARKES PARKES







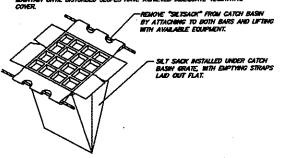
CONSTRUCTION SPECIFICATIONS

- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TROHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED IN THE SOLL A MINIMUM OF 4".
 3. BALES SHALL BE SELVELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVENS THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANALED TOWNED THE PROVISELY LAD BALE TO FROM BALE STORTING.
 4. INSPECTIONS SHALL BE PREQUENT AND REPAR OR REPLACEMENT SHALL BE WASCE BOARD AS ASSETTION.
- A MISSECTIONS SHALL BE PRECIDENT AND METARY OF THE PROJECT SHALL BE MADE PROMETLY AS NEEDED.

 5. BALES SHALL BE REMOVED WHEN THEY HAVE SHYNED THEIR USEFULNESS SO AS NOT TO BLOOK OR MEPELE STORM FLOW OR DIPARMACE.

SILT SACK INSTALLATION IN CATCH BASIN

1. REMOVE DRAIN GRATE AND INSERT SICT SACK, MARRING SURE THAT THE EMPTHING STRAINS ARE LAD FLAT OUTSIDE OF THE BASIN.
2. REPLACE DRAIN GRATE TO HOLT SICT SACK NITO POSSTICIN.
3. AS SICT SACK RESTAIRS FILL OF SEDMENT, REMOVE WITH FRONT END LANDRY (OF OTHER SUTTABLE EQUIPMENT), AND EMPTY WITO TOPSOUL STORAGE AREAS ON STE.
4. REPLACE THE EMPTHO SUT SACK RACK INTO THE CATCH BASIN AND LANTAN UNTIL DISTURGED SLOPES HAVE ACHIEVED ADEQUATE VEGETATIVE

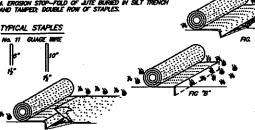


INSTALLATION NOTES:

- 1. STRAW BALES MAY BE USED AROUND CATCH BASINS PRIOR TO THE BASE COAT PANING OPERATIONS. STRAW BALES SHALL NOT BE USED AS A TEMPORARY EROSION CONTROL BESINE FOR CATCH BASINS AFTER BASE COAT PANING.
 2. SET SACKS MAY BE USED PRIOR TO THAIL PANING, AND MAST BE INSTALLED IN ALL CATCH BASINS AFTER FRUL PANING. SET SACKS TO BE MAINTAINED IN PLACE UNTIL ALL OSTRIBED AREAS HAVE BEEN STABLED.

DETAIL FOR STABILIZING WITH JUTE MATTING

1. BURY THE TOP ENDS OF THE JUTE STRIPS IN A TRENCH 8 INCHES OR MORE IN OPPTH.
2. TAMP THE TRENCH FULL OF SOIL. SECURE IT WITH A ROW OF STAPLES, 8 INCH SPACING, 4 INCHES DOWN FROM THE TRENCH,
3. OFERLAP AND BURY THE UPPER DID OF THE LOWER STRIP AS IN FIGURES, 3" AND "S" OFERLAP THE END OF THE TOP STRIP 4 INCHES AND STAPLE,
4. ENGINEN STOP—FOLD OF JUTE BURBED IN SULT TRENCH AND TAMPER, DURBLE ROW OF STAPLES.



SILT FENCE

ROW CRUNK

FLOW _S

GENERAL SITE CONSTRUCTION SPECIFICATIONS

1. ALL GRADING OR DISTURBED AREAS, INCLIDING SLOPES, SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION, IN ACCORANCE WITH THESE PLANS, UNTIL THEY ARE PERMANENTLY STABLED.

2. ALL SERMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLED, AND MANTAINED PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLED, AND MANTAINED PRACTICES WITH THESE PLANS.

3. TOPSOL REQUIRED FOR THE ESTABLISMENT OF VEGETATION SHALL BE STRONGHED IN AMOUNTS RECESSARY TO COMPLETE PRISHED GRADING OF ALL EPPOSED AREAS.

ENVISED AMERS.

A. AMERS TO BE FINISHED SHALL BE CLEARED, CRUBBED, AND STREPPED OF TOPSOL TO REMOVE TREES, VEGETATION, ROUTS, OR OTHER OBJECTIONABLE

TURSUL TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER GRECTIONABLE MATERIAL.

5. MEAS WHICH ARE TO BE TURSOLED SHALL BE SCARPED TO A MAMMAN DEPTH OF 8 HOUSE PHORT TO THE PLACEMENT OF TURSOL.

6. ALL FILL AMENS SHALL BE COMPACTED AS REQUIRED TO REDUCE ENGIGIN, SUPPINCE, SETTLEMENT, SUBSEMBINCS, OR OTHER RELATED PROFILES. FILL MEMBED TO SUPPORT BULLINGS, STRUCTURES, COMDUTS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND COLES.

7. ALL FILL SHALL BE FIRE OF BRUSH, RUBBESH, LOCS, STUMPS, BURDING DEBTOS, AND OTHER OBJECTIONABLE MATERIALS THAT WOLLD MEMBERS WITH OR PREVENT CONSTRUCTION OF SITS/ACTORY FILLS.

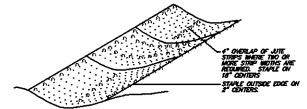
8. FROZEN MATERIAL OR SOFT, MICKLY, OR MEMLY COMPRESSIBLE MATERIALS SHALL BOT BE MOVED PARTED WITH OF PLESS.

8. PROZEN MATERIAL OF SEP, MOOT, OF MAILL CHAPPLESSEL MATER SMLL NOT BE PLACED ON A PROZEN FOUNDATION. 10. FILL SMLL NOT BE PLACED ON A PROZEN FOUNDATION. 11. SEPS MOD SPRINGS DEVOLUTIERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCURANCE WITH THE STANDARD SPECIFICATIONS FOR SUBSURFACE DRAIN OR OTHER METHODS APPROVED BY THE OTYTOMN DROBLER AND MATMARD & PAGUETTE DROBLERING ASSOCIATES, LLC.

PERSPECTIVE VIEW

10" HAX C TO C

— WOVEN WINE FENCE (MIRL 14 1/2 GUAGE, MAX. 8" MESH SPACING)



STRAW BALE INSTALLATION AT CATCH BASINS/OUTLET STRUCTURES

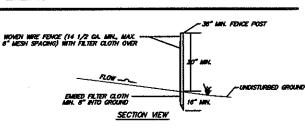
1. EXCAVATE A 4 MICH DEEP TRENCH AROUND THE MILET. MAKE THE TRENCH AS NIDE AS A STRAW BALLAY
2. CHEM'S TANY BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES, RATHER
THAN OVER AND UNDER THE BALES.
3. FALCE BALES LEWICHINGS AROUND THE WALET AND PRESS THE ENDS OF ADJACENT
3. FALCE BALES LEWICHINGS AROUND THE WALET AND PRESS THE ENDS OF ADJACENT.

BALES TOZETHER.

A. DRIVE TWO 2 HICH × 2 INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECRELY IN PLACE.

S. BACKFUL IT HE EXCAMATED SOIL AND COMPACT IT AGAINST THE BALES.

6. WEIGE LOOSE STRAW BETWEEN THE BALES TO PREVENT WATER FROM FLOWING IN BETWEEN THE STALES.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOMEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIFE IES ON STAPLES. 2. Filter Cloth to be fastened securely to women wine fence with ties 2. PLICE CUSTO TO BE PASSIND SECONDLY TO MORE MINE PORCE MIN THE SPACE DEVENT AS MORES AT TOP AND MIN-SECTION MINES.

3. MEMBE THIS SECTIONS OF PLETA CLOTH ADARM CACH OTHER, THEY SHALL BE OWNED-MAPPED BY 8 MOVIES AND PUBLISH DESERVER.

4. MANTENANCE SHALL BE PERFORMED AS REPORT AND MATERIAL REMOVED.

4. MENT "BULGES" DEVELOP IN THE SLIT FEMOLE.

INSTALLATION PROCEDURE

1. LAY OUT A SUTUREE FRINCE LINE AND SET POSTS ALONG IT. ON SLOPES, ALONG THE OFFICE ALONG THE CONTOUR AS CLOSELY AS POSSIBLE. IN SMALL SHALES, CURNE THE FRINCE LINE UPSTREAM AT THE SIDES FOO DIRECT THE FLOW TOWNED THE MIDDLE OF THE FRINCE. THE SIDES SHOULD BE HOWER. FLOW TOWNED THE MIDDLE OF THE FRINCE. THE SIDES SHOULD BE HOWER. FLOW THAN THE COURSE. WHEN THE MIDDLE OF HOME THAN THE COURSE. THE STOLE SHOULD BE HOWER. FLOW THAN THE COURSE. WHEN EXPORTED THE CHOICE. WHEN EXPORT AND DRIVE THAN THE COURSE THAT AND DRIVE THAN THE STRENGT THE PROBLE SHOULD BE HOWER. FLOW THE STRENGT THE STRENGT HOT PLANE OF SHOULD BE WITH A STRENGT HE SHOULD BE WITH A STRENGT HOWER FOR THE STRENGT HOW A BROKES DEPT ALONG THE LINE OF POSTS AND UPSLOVE FROM THE BARRIER.

2. FASTEN WHE MESS SECRELY TO THE UPSLOPE SIDE OF THE POSTS. USE HEAVY-DUTT WIRE STAPLES AT LEAST I HAVE LONG TO THE THE WIRES OF HOSE PROSES FOR THE OFFICE HOWER SIDE, BE A MINIMARY OF 14 MOVES ON THE TENNET. WHEN FROM SIDE, BE A MINIMARY OF 14 MOVES ON THE TENNET OF 18 MOVES ON THE FERDER FORTS AND MINIMARY OF 18 MOVES ON THE TENNET HE FILTER FARRIER FOR TO THE UPHALL SIDE OF THE FEDOLE POSTS AND SHAPPEN FARRIER ONTO TREES. CUT THE FARRIER FARRIER FARRIER FOR TO THE UPHALL SIDE OF THE FEDOLE POSTS AND SHAPPEN FARRIER ONTO TREES. CUT THE FARRIER FARRIER FOR A CONTINUOUS ROLL TO AND THE POSTS OF THE FRANCE ONTO TREES. OUT THE PARTIER FARRIER FORM A CONTINUOUS ROLL TO AND THE POSTS OT THE POST.

WHEN JAMIS ARE NECESSARY, SPLICE THE FILTER QUOTH AT A SUPPORT POST, WITH A MINIMAR OF MICH OVERLAP, AND SCURELY FASSIER BOTH ERDS TO THE POST.

s. Backfill the trench over the tow of the fabric and compact the

STE MAINTENANCE AND INSPECTION PROGRAM

A. RISPECTIONS.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT, MAINTENANCE PRACTICES SHALL INCLUDE, BUT ARE NOT LIMITED TO:

INSPECTIONS AND/OUR AFTER SIGNIFICANT RAINFALL EVENTS.
2. CLEMING OF SEDIMENT OF DEBTS FROM STORM WHITE MANAGEMENT AREA BRETS TINCE PER YEAR OF MORE PROJECTIVE AS DICTATED BY QUARTERLY RISPECTIONS AND/OR AFTER SIGNIFICANT RAINFALL EVENTS. . CLEANING OF CATCH BASINS TWICE PER YEAR OR MORE PREGUENTLY AS DICTATED BY QUARTERLY

3. MEDILY SITE INSPECTIONS TO DETERMINE/MPLEMENT NECESSARY REPAIR AND MAINTENANCE

ACTIVITIES.

4. REMOVAL OF SOMENT BUILDUP ALONG SLT FENCES, STRAW BALE BARRIERS, GRASS SIMLES, AND TREATMENT BASIN MALETS. RELIONE SEDMENT BUILDUP IN CONTROL OF TREATMENT BASINS SUCH THAT ALL CULLETS ARE ARE! THEFE FROM SEMENT AND DEBROS.

5. MOSPICITION/RECONSTRUCTION OF THE STABLIZED CONSTRUCTION ENTRANCE.

6. TREATMENT OF MOSPICIONALIZER REALIZED DOMESTIC SIMON SE MALET USE INSTALLATION FLUSH WHITE OF GROUNDMATER FROM DEMATED INSCRIPTIONS. THESE FLOWS SHOULD BE DIRECTED TO A TELEPROPRY SEDMENTATION BASIN OR CONSTRUCTED STORM MINER BUILDURANGEMENT AREA.

7. SWEED PAYED PAYED PAYENDS LOTS AND DRIVES REGULARLY TO MINIMAZE SEDMENT ACCUMULATION.

GOOD HOUSEKEEPING PRACTICES

THE CONTRACTOR SHALL EMPLOY MEASURES AND PRACTICES TO REDUCE THE RISK OF SHILLS OR OTHER ACCIDENTAL EMPCISITE OF MATERIALS TO STORM MATERIALS HAVET. THE CONTRACTOR SHALL USE CARE IN THE HANDLING, USE AND MISSPOSL OF MATERIALS SHOULD SEPTEMBLE HAVED AND THE PROJECTS FOR PARTS TO ENSURE THAT THE RISK ASSOCIATED WITH THE USE OF THESE PRODUCTS IN MINISTRY. THE FULL DIMENS PRACTICES SHALL BE FOLLOWED DELINES THE CONSTRUCTION OF THIS

1. AN EPTORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED FOR THIS SPECIFIC STE.

2. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A MEAT, ORDERLY MAINER IN THER

2. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A ROOF OR OTHER SATINGE ENGLOSINE.

3. PRODUCTS SHALL BE REPT IN THER ORIGINAL CONTAINERS WITH THER ORIGINAL LABELE ENGLOSINE.

4. WHENEVER POSSIBLE, ALL OF THE PRODUCT SHALL BE USED WESTER DISPOSING OF THE CONTAINER.

5. THE MAINFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED IN REGINED TO THE PROPER USE

AND DEPOSIAL OF ALL PRODUCTS.

8. THE CONTRACTOR SHALL RESPECT DALLY TO ENSURE THE PROOFER USE AND DISPOSAL OF ALL MATERIALS OF STELL.

SPILL PREVENTION AND GEARUP PRACTICES

THE CONTRACTOR/OPERATOR SHALL BE RESPONSIBLE FOR THE SAFE HANDLING, USE AND DISPOSAL PROGRAM OF ALL HAZARDOUS MATERIALS FOR THE DURATION OF THIS PROJECT AND SHALL HAVE A SPECIFIC SPILL PREVENTION AND CLEANUP PROTOCOL FOR ALL HAZARDOUS MATERIALS, INCLUDING, BUT NOT LIMITED TO:

1. MANUFACTURERS RECOMMENDED METHOOS FOR SPUL CLEARUP MILL BE CLEARLY POSTED AND STE PERSONNEL MILL BE MADE ANNIVE OF THESE PROCEDURES AND THE LOCATION OF THE CLEARUP

1. MANUFACTURERS RECOMMENDED METHOUS FUN SPELL CLEARING THE LOCATION OF THE CLEARING PERSONNEL WILL BE MADE ANNIHE OF THESE PROCEDURES AND THE LOCATION OF THE CLEARING SUPPLIES.
2. MATERIALS AND EQUIPMENT HECESSARY FOR SPELL CLEARING WILL BE KEPT IN THE MATERIAL STUDAGE AREA ON STE. EQUIPMENT AND ATTERNAL WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUSTIFIANS, MOPS, PAGS, COMES, CORDELS, RITTLY LITTLE, SAND, SANDUST, AND PLASTIC/METAL THAN I CONTANTERS SPECIFICALLY FOR THIS PROPOSE.
3. ALL SPILLS SHALL BE CLEARING UP MANUFACTLY AFTER DISCOMERY.
4. THE SPILL AREA SHALL BE KEPT WELL WENTLATED AND FORSONNEL, MILL WEAR APPROPRIATE PROTECTIVE CUSTOMER FORWARD AND THE WAY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
3. SPILLS OF TODGS OF HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL COPERMENT AGENCY, RECARDIUSS OF THE SPILL PREVENTION FLAN WILL BE ADJUSTED TO SMILLING TO PREVENT THIS TYPE OF SPILL FROM RECOCCURRING, AND HOW TO CLEIN UP THE SPILL IF THEME IS ANOTHER ONE. A DESCRIPTION OF THE SPILL WHAT CHISED IT, AND THE GLEARUP MEASURES WILL ALSO BE NICLIDED.

STORMWATER POLLUTION PREVENTION PLAN & DETAILS SHEET 58 / LOT 14

MANSFIELD DRIVE & DERRY LANE HUDSON. NEW HAMPSHIRE

PREPARED FOR: HUDSON FIVE, LLC

SCALE: NONE

DATE: MARCH 1, 2018



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