

MAJOR SUBDIVISION APPLICATION

(a total of four or more lots)

City of Rochester, New Hampshire



Date: 03/10/20	Is a conditional need (If so, we encourage y			Bysoon as possible.
Property information Tax map #: 110 ; Lot	#('s): _10, 10-2 thru 10-18;	Zoning district:	Residential-1 (R1)
Property address/location:	Eastern Avenue			
Name of project (if applicable	e): Freedom Drive Subdivsio	n		
Size of site: 17.16 acres;	Overlay zoning distr	ict(s)? Conservation	Overlay	
Property owner				
Name (include name of indiv	vidual): Arthur Taylor LLC			
Mailing address: 479 Tovar Driv	re; San Jose, CA 95123			
Telephone #:		_ Email:		
Applicant/developer (if	different from property	owner)		
Name (include name of indiv	vidual): Golden Oaks Devel	opment, LLC		
Mailing address: 35 Jenkins Co.	urt; Lee, NH 03861			
Telephone #: (603) 828-1151		_ Email: _tports@c	omcast.net	
Engineer/surveyor				
Name (include name of indiv	vidual): Norway Plains Asso	ociates, Inc. c/o Scott La	wler, PE	
Mailing address: PO Box 249; Ro	chester, NH 03866-0249			
Telephone #: (603) 335948		_ Fax #:		
Email address: slawler@norwayp	lains.com	Professional	license #:	PE 10026
Proposed project				
Number of proposed lots: 16	house lots & 1 open space lot;	imated length of	new roads:	1,100 feet
Number of cubic yard of earl	th being removed from	n the site? Less th	an 500 cy	
City water? yes X no	_; How far is city wa	ater from the site	? On Eastern	Ave
City sewer? yes X no	_; How far is city se	wer from the site	? On Eastern /	Ave
If city water, what are the es	t. total gal. per day? _	7,200 ; Are there	e pertinent c	ovenants? n/a
Where will stormwater be dis	scharged? Infiltration Basi	ns and Bioretention Rair	n Gardens	

Page 1 (of 2 pages)

Updated 3/27/2019

Wetlands: Is any fill proposed? Yes; area to be filled: 4,085 sf; buffer impact? X
Comments
Please feel free to add any comments, additional information, or requests for waivers here:
Submission of application This application must be signed by the property owner, applicant/developer (if different from
property owner), and/or the agent.
I(we) hereby submit this Subdivision application to the City of Rochester Planning Board pursuant to the <u>City of Rochester Subdivision Regulations</u> 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/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.
Signature of property owner:
Signature of applicant/developer:
Signature of agent:
Date: 03-66-2020
Authorization to enter subject property
I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or
inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.
Signature of property owner:
Page 2 (of 2 pages)

Updated 3/27/2019

NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 / (800) 479-3948 slawler@norwayplains.com



P. O. Box 268
31 Mooney St.
Alton, NH 3809
www.norwayplains.com
Phone & Fax (603) 875-3948
rtetreault@norwayplains.com

March 9, 2020

Seth Creighton, Chief Planner Department of Planning and Development Second Floor, City Hall 31 Wakefield Street Rochester, NH 03867-1917

Re: Proposed Residential Subdivision – Freedom Drive - Tax Map 110, Lots 10, 10-2 through 10-18.

Dear Mr. Creighton,

On behalf of the Golden Oaks Development, LLC, Norway Plains Associates, Inc. is pleased to submit a Subdivision Application for a 17-lot residential subdivision. Golden Oaks Development, LLC have a purchase and sales agreement with the owner of the parcels located off Eastern Avenue identified by the City of Rochester assessors as Tax Map 110, Lot 10, 10-2 through 10-18 with a total area of 17.16 acres. The parcels are located in the Residential 1 (R1) Zoning District.

The proposed project is to replicate a residential subdivision approved by the Rochester Planning Board in 2007 for Arthur Taylor. The original subdivision approval created seventeen (17) single family residential house lots with access to all but two via a new City street to be constructed as Freedom Drive. The Planning Board approval allowed for the conveyance and house construction on the two lots with frontage on Eastern Ave, Lots 10-1 and 10-17, with the condition that access would be off the new roadway.

With the downturn in the economy shortly after the approvals, construction of Freedom Drive did not commence and only one of the two lots on Eastern Avenue was sold and built up, Lot 10-1. Only minor infrastructure construction was completed, such as the water and sewer connections to the municipal utilities located in the Eastern Avenue Right-of-Way. Over time, City of Rochester Subdivision approval expired as well as all of the State permits.

Golden Oaks Development, LLC are proposing to repermit the approvals for 16 single family house lots and the new roadway. Minor adjustments to the configuration of the proposed lots are proposed, mostly to better accommodate the stormwater management systems. The limits of jurisdictional wetlands were delineated by B.H. Keith Associates and a Site Specific Soils map was prepared by Round Pond Soil Survey.

The proposed roadway alignment is the same as previously approved, as is the roadway width of 24 feet with granite curbing. Based on discussions at the Preliminary Design Review meeting last November, the applicant is proposing vertical granite curbing and paved sidewalk without a five-foot grass strip. This allows for larger front lawns.

Similar to the original approval, the proposed lots will be serviced with City water. Consistent with other smaller sized subdivision in which a traditional gravity sewer system would not be feasible, the applicants are proposing to have a low-pressure sewer force main and individual effluent pump stations on the lots. This would avoid the unnecessary cost of constructing a gravity sewer collection system within Freedom Drive, installation of a

Golden Oaks Development, LLC Freedom Drive Subdivision Narrative

Page 2

municipal pump station and a large sewage force main back up to Eastern Avenue. This proposed sanitary sewer system was discussed with the Planning Board on two occasions last November. Per the subdivision regulations, all utilities within the subdivision will be underground. Fire hydrants have been placed in accordance with the Fire Department and there will be a couple street lights with LED fixtures.

The stormwater generated from the new street and the homes will be collected and treated in accordance with the State and City regulations. The runoff from the street and portions of the lots will be directed towards two infiltration basins located in approximately the same location as the previous approved plans. Most of the house lots will have individual rain gardens constructed to handle the runoff from the roofs. With the exception of the rain gardens, the main stormwater basins will be constructed on the open space lot with drainage easements for access and maintenance. Minor grading for the infiltration basins and drainage pipe is proposed along and inside the outer 25 feet of the Conservation Overlay District. The Conditional Use application will also request for the grading in the CO District.

The project will also require reapproval of several State permits, NHDES Wetlands and NHDES Wastewater Engineering Bureaus and a new permit from NHDES Alteration of Terrain Bureau. The total amount of impacts to the wetlands is 4,355 square feet at four locations. The impact locations are generally the same as the previous approval, but the overall amount of impacts increased slightly due to new delineation of the wetlands. The impacts to the wetlands also require a Conditional Use approval. The Alteration of Terrain Permit is necessary due to the overall earth disturbance associated with the roadway and infrastructure construction. Once the roadway and drainage systems are constructed and stabilized, the developer can start on the house construction. Lastly, the Sewer Discharge Permit is required to allow for the additional 7,200 gallons per day of design flow to the municipal sewer system.

Should the Board need additional information or have any questions, please feel free to contact our office. Otherwise we look forward to discussing this project with staff and the Planning Board. Thank you for your consideration

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

Bv:

Scott A. Lawler, PE, Project Engineer

c: Golden Oak Development, LLC

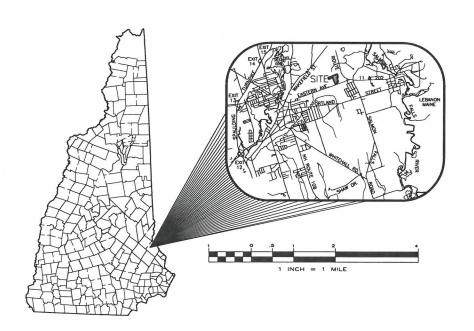
Arthur Taylor

PROPOSED 17 LOT SUBDIVISION

FREEDOM DRIVE

PREPARED FOR

GOLDEN OAKS DEVELOPMENT, LLC MARCH 2020









CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948

DEVELOPER

GOLDEN OAKS DEVELOPMENT, LLC 35 JENKINS ROAD LEE, NH 03861

OWNER

ARTHUR TAYLOR, LLC. 479 TOVAR DRIVE SAN JOSE, CA 95123

OVERALL SITE 1" = 200'

FOR STATUS OF THIS PERMIT. CONTACT THE PROJECT GENERAL CONTRACTOR

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

CERTIFIED BY: ____ ____ DATE: ___

OVERALL SUBDIVISION PLAN SUBDIVISION PLAN EASEMENT PLAN AS SHOWN TOPOGRAPHIC SUBDIVISION PLAN EXISTING FEATURES PLAN ROAD PLAN & PROFILE UTILITY PLAN AND PROFILES GRADING AND DRAINAGE PLAN AND PROFILES

C-5 ROADWAY DETAILS AS SHOWN UTILITY DETAILS
SEWER FORCE MAIN DETAILS AS SHOWN AS SHOWN C-8 DRAINAGE DETAILS AS SHOWN

C-9 INFILTRATION BASIN PLAN & PROFILE C-10 INFILTRATION BASIN DETAILS AS SHOWN AND SILT SOCK & EARTH BERM DETAIL

C-11 TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS AS SHOWN

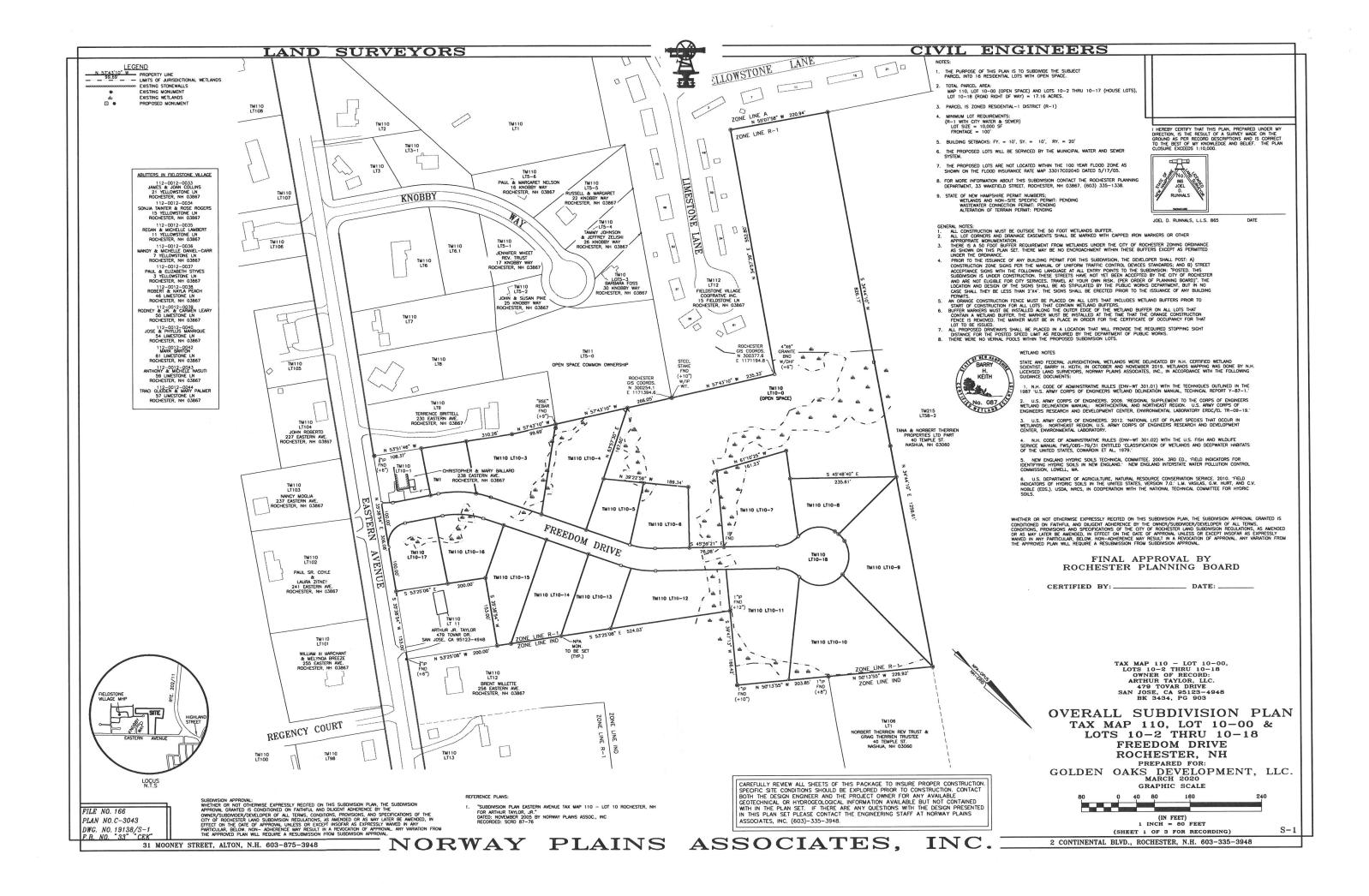
AS SHOWN CONTROL DETAILS C-13 TEST PIT DATA

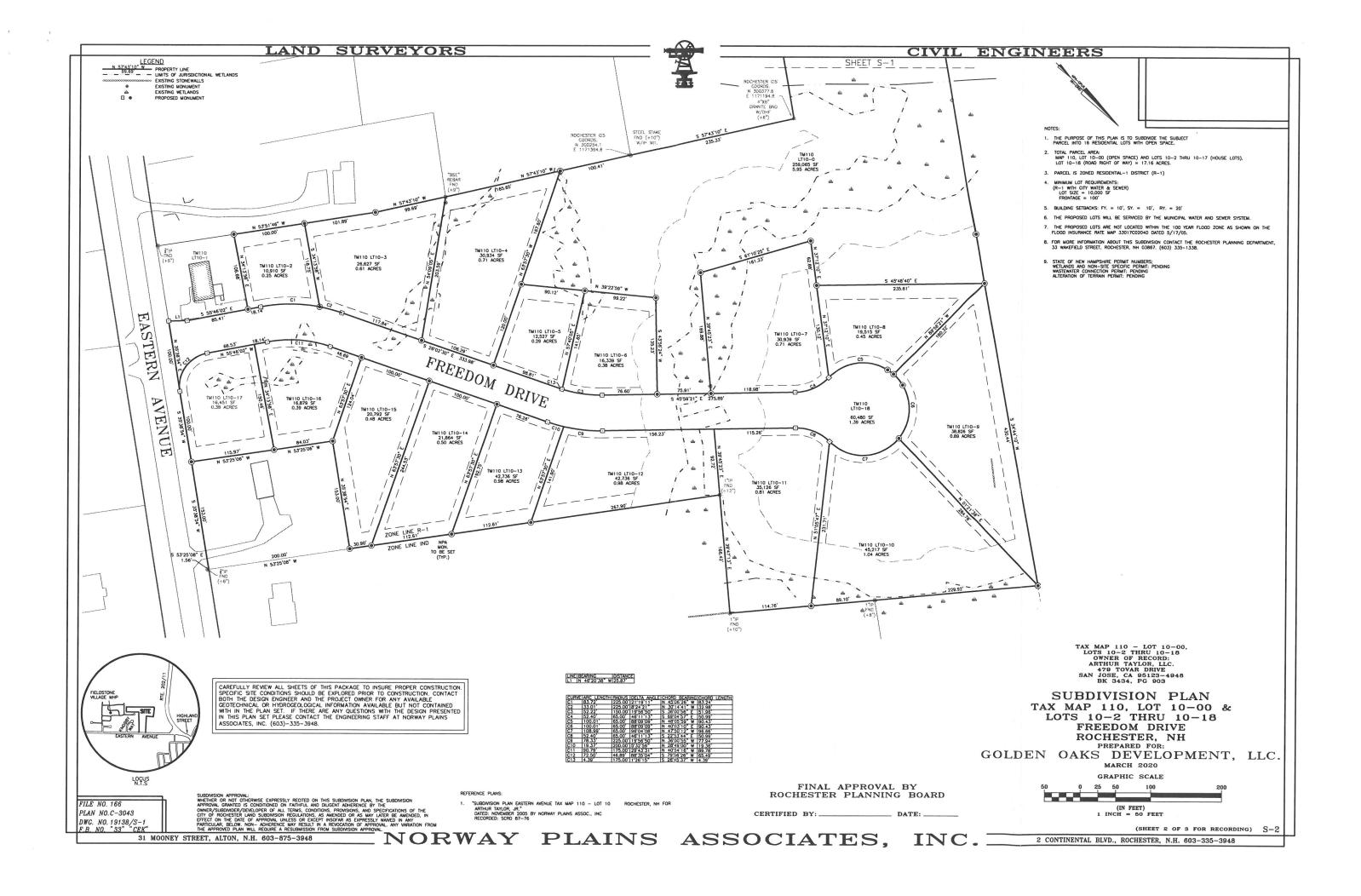
2 Continental Blvd., Rochester, N.H. 603-335-3948

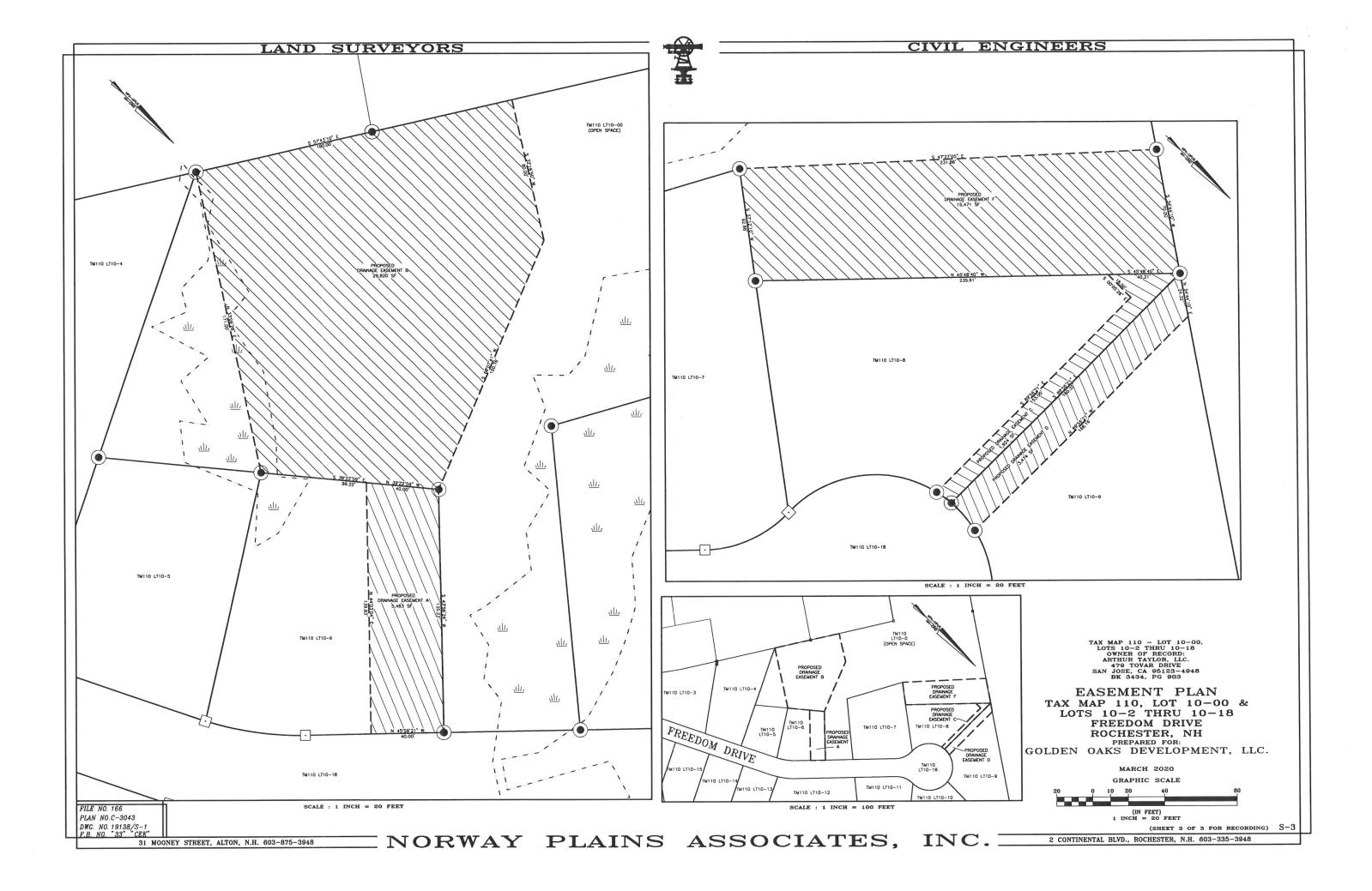
FILE NO. 166 PLAN NO.C-3043 DWG. NO. 19138/S-1 F.B. NO. "33" "CEK

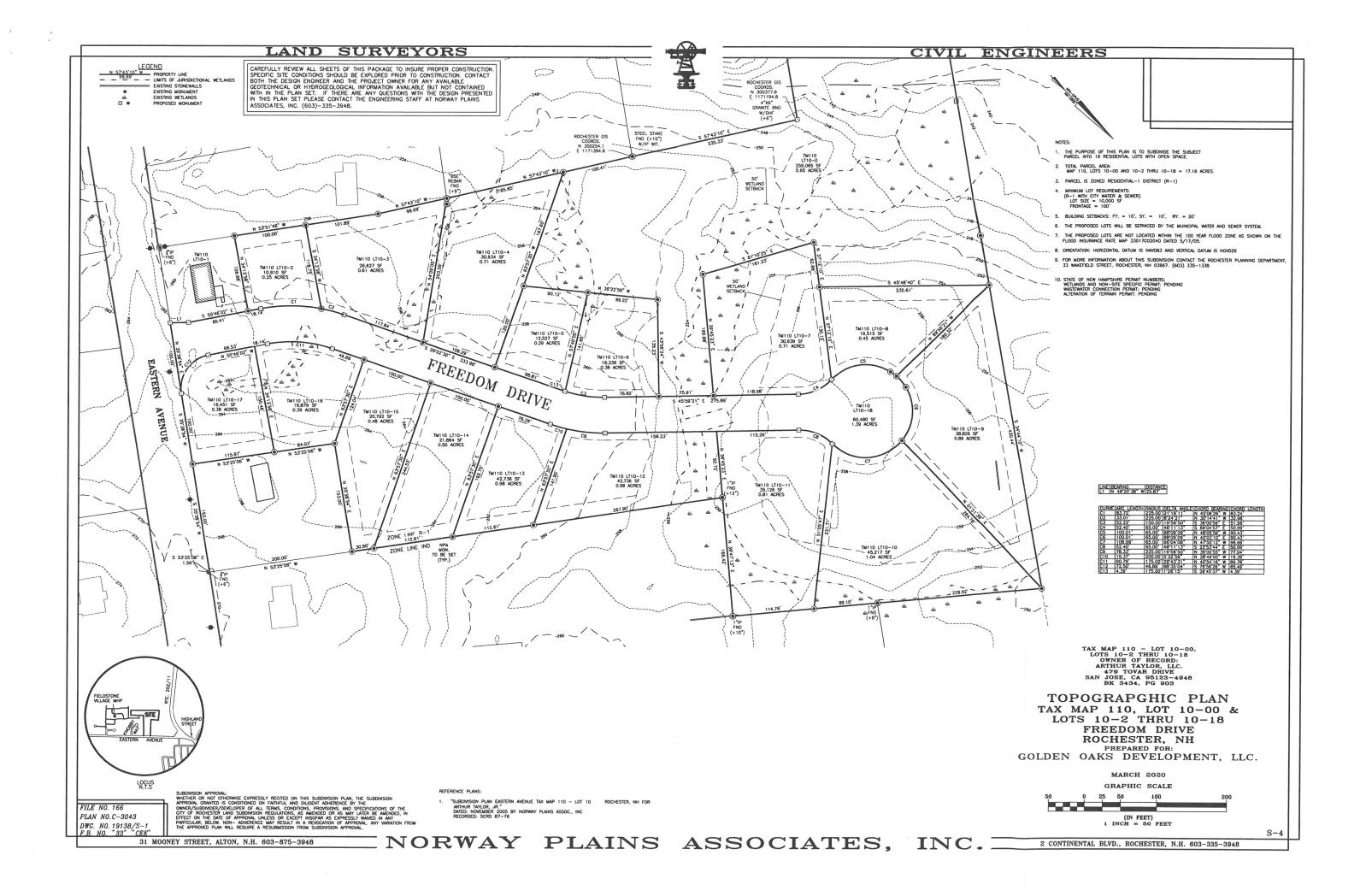
31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC. I











31 Mooney Street, Alton, N.H. 603-875-3948

CIVIL ENGINEERS

- THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING SITE FEATURE ON THE SUBJECT PARCEL AND ABUTTING PARCELS.
- TOTAL PARCEL AREA: MAP 110, LOT 10-0(OPEN SPACE) AND LOTS 10-2 THRU 10-7 (HOUSE LOTS)
 AND LOT 10-18 (ROAD RIGH-OF-WAY) = 17.16 ACRES OR 747,489.6 SQ.FT.
- 3. THE PARCEL IS ZONED RESIDENTIAL-1 DISTRICT (R-1)
- 5. BUILDING SETBACKS: FY. = 10', SY. = 10', RY. = 20'
- 6. THE PROPOSED LOTS WILL BE SERVICED BY THE MUNICIPAL WATER AND SEWER SYSTEM.
- THE PROPOSED LOTS ARE NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP 33017C0204D DATED 5/17/05.
- ORIENTATION: HORIZONTAL DATUM IS NAVD83 AND VERTICAL DATUM IS NGVD29

A. THIS SITE—SPECIFIC SOIL MAP WAS COMPLETED IN MARCH 2020 BY DAVID J. ALLAIN, NH. CERTIFIED SOIL SOILMAPING STANDARDS FOR NEW HAMPSHIRE AND VERWORT, VERSION 5.0, DECEMBER 2017, SSISTME SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERWORT, VERSION 5.0, DECEMBER 2017, SSISTME SPECIAL PUBLICATION NO.3 WAS USED AS A REFERENCE AND GUIDE IN DEVELOPING THIS MAP. THE DESTURBED SOIL MAPPING SUPPLIEDATE FOR NEW HAMPSHIRE DES AND TSIE SPECIFIC SOIL MAPS. CONDIGINATION OF TERRAIN (ACT) PROGRAM. THE SOILS WERE IDENTIFIED USING THE "THIS WAS HAMPSHIRE STATE—WIDE NUMBERICAL SOILS LEGEND" PREPARED BY THE USDA NRCS, DURHAM NH, ISSUE \$10, JANUARY 2011.

SEE SHEET D-1 SITE SPECIFIC SOILS PLAN FOR SOIL BOUNDARY SEE SHEET C-13 FOR TEST PIT DATA



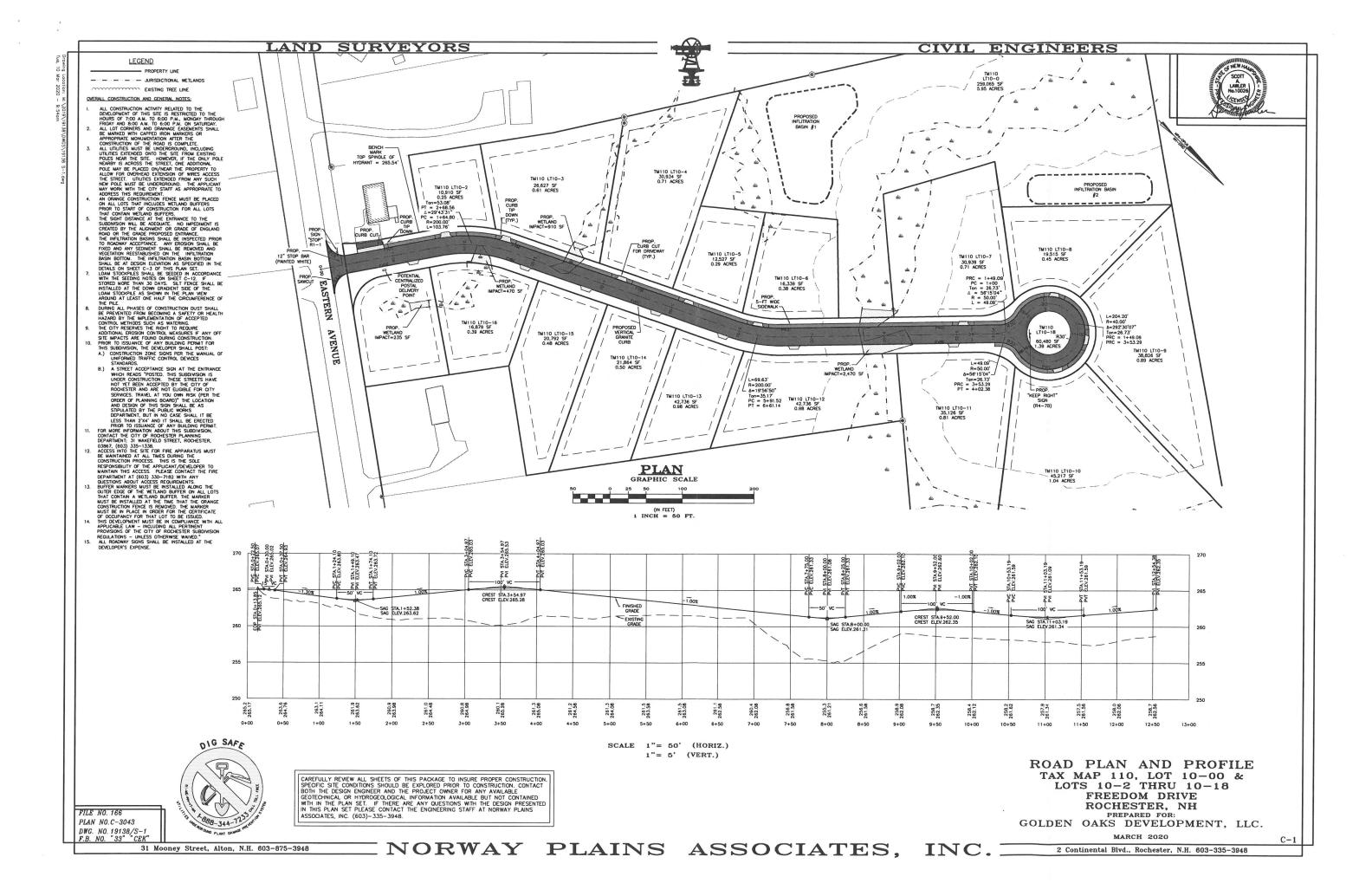
TAX MAP 110 - LOTS 10-0, 10-2 THRU 10-18 OWNER OF RECORD: ARTHUR TAYLOR, LLC. 479 TOVAR DRIVE SAN JOSE, CA 95123-4948 BK 1400, PG 649

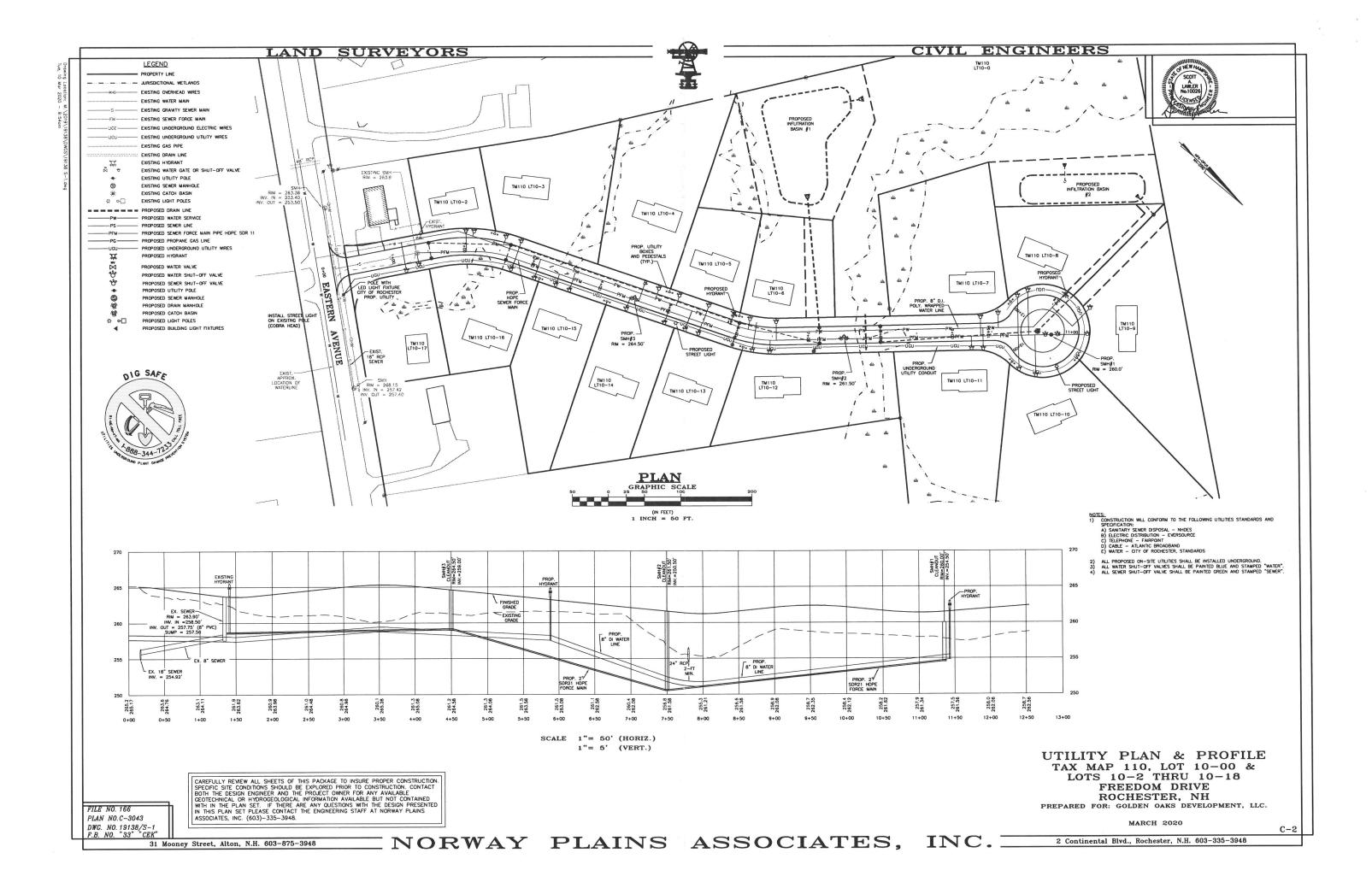
EXISTING FEATURES PLAN TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR:

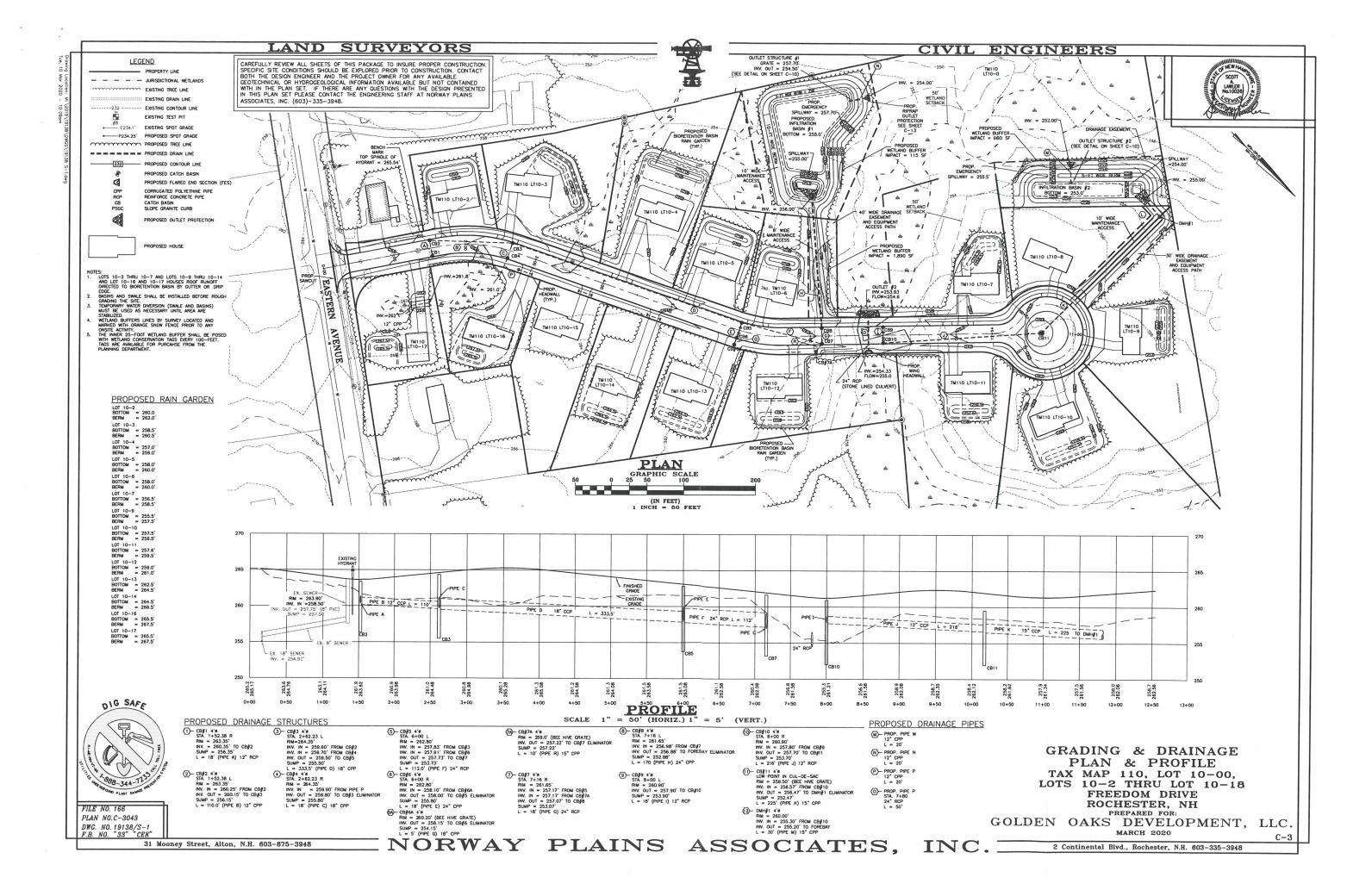
GOLDEN OAKS DEVELOPMENT, LLC.

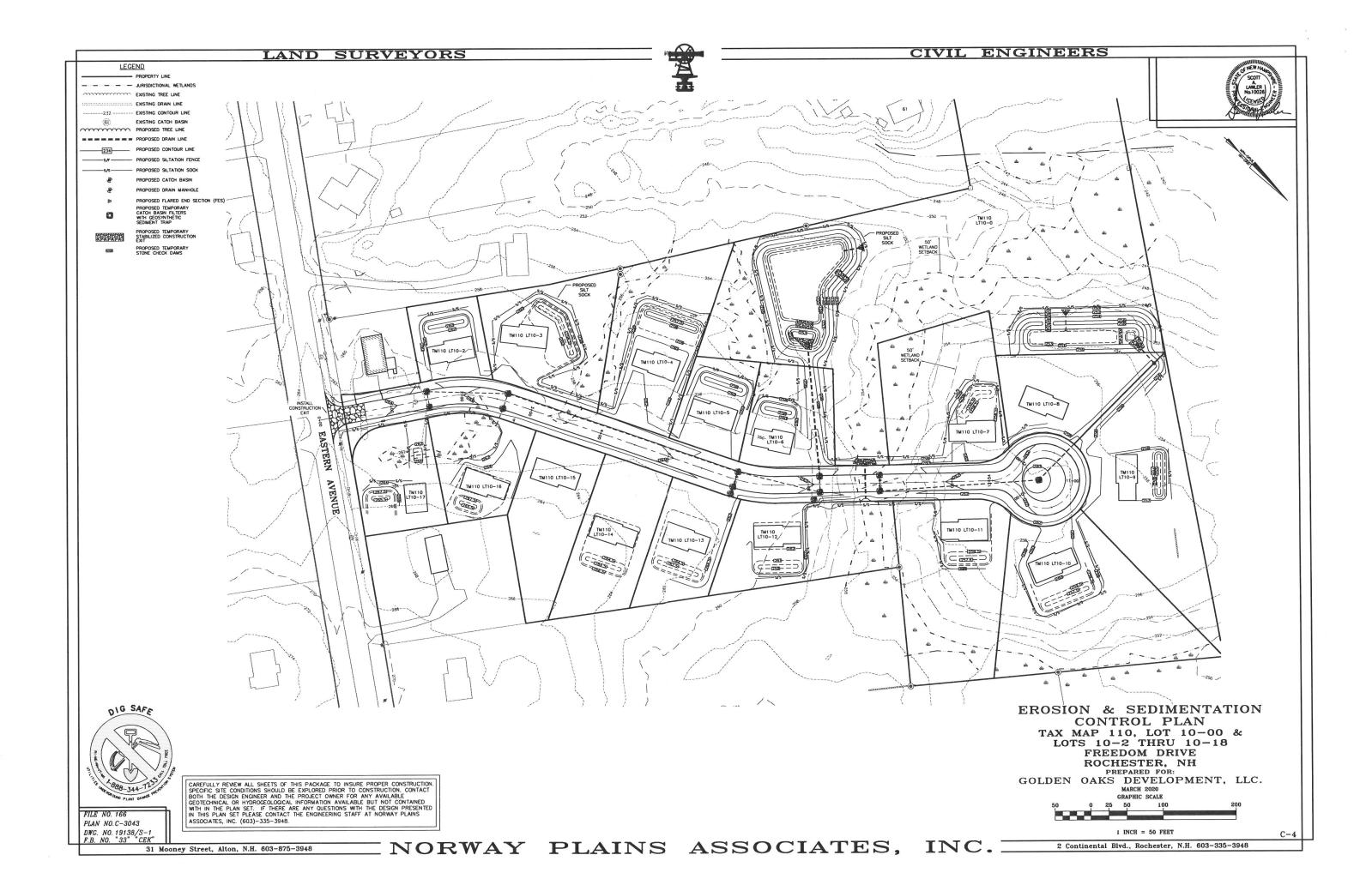
MARCH 2020 GRAPHIC SCALE (IN FEET) 1 INCH = 80 FEET

2 Continental Blvd., Rochester, N.H. 603-335-3948









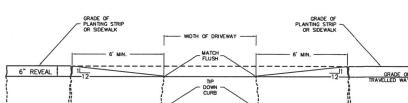
8" BINDER COURSE (NHDOT 304.11)



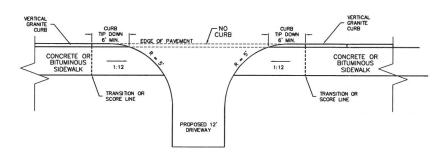
SIGN SIZE NO. SIGNS REQ'D TEXT HEIGHT WIDTH 30" KEEP 24" RIGHT DEAD 30" FREEDOM DRIVE 6" WHTIE LETTERS

SIGN SCHEDULE

NOT TO SCALE



TIP-DOWN PROFILE



PLAN VIEW

CURB TIP-DOWN PLAN & PROFILE DETAIL

NOT TO SCALE

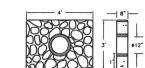
ITEM 417 - COLD PLANING OF BITUMINOUS SURFACES TAPER DEPTH (0" TO 1") TYPICAL SAWCUT DETAIL

NOT TO SCALE

PLATFORM 12-FT, MINIMUM 15% MAXIMUM TYPICAL DRIVE IN CUT SECTION

IVEWAY NOTES.
THE OWNER OF THE LOT WILL BE RESPONBLE FOR OBTAINING A DRIVEWAY PERMIT FROM ROCHESTER PUBLIC WORKS.
DRIVEWAY COLVECTS SHALL BE 12'9 MIN. AND SHALL EXTEND 5 FEET BEYOND BOTH SIDES OF THE DRIVEWAY COLVECTS SHALL BOTH AND SHALL EXTEND 5 FEET BEYOND BOTH SIDES OF THE OWNERS FOR SHALL FIRST SHALL BOTH SIDES OF THE OWNERS SHOULD HOT EXCEED TO THE ALCEBRAIC DIFFERENCE BETWEEN TWO ADJACENT GRADE CHANGES SHOULD HOT EXCEED TOX. DITCHES ARE RECOMMENDED FOR WILCHISED DRIVEWAYS IN CUT SLOPES.

USE RUBBLE MASONRY OR PRECAST HEADWALLS OR SLOPE END SECTIONS ON CULVERT PIPES.



TYPICAL DRIVE HEADWALL

EXIST. PAVEMENT

TYPICAL PAVEMENT MATCHING DETAIL

NOT TO SCALE

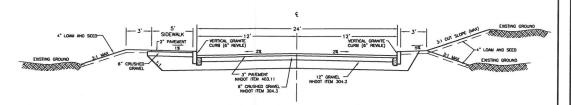
PAVED SIDEWALK WITH GRANITE CURB DETAIL NOT TO SCALE

POURED CONCRETE
TO SET CURB STONE

FILE NO. 166 PLAN NO.C-3043 DWG. NO. 19138/S-1 F.B. NO. "33" "CEK"

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC. I

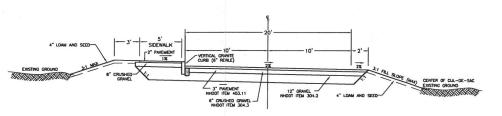


CIVIL ENGINEERS

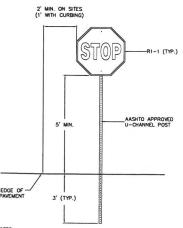
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS

ASSOCIATES, INC. (603)-335-3948.

ROADWAY CROSS-SECTION



CUL-DE-SAC CROSS-SECTION



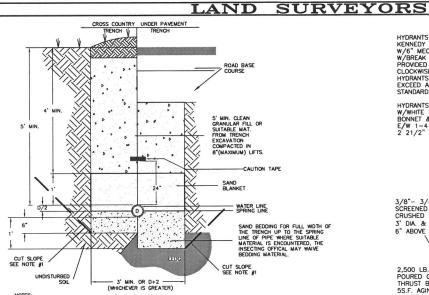
TYPICAL TRAFFIC SIGN

NOT TO SCALE

ROADWAY DETAILS TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

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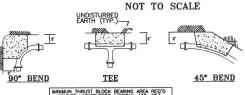


NOTES: IN PRES MAY BE INSTALLED BY EXCHAINING AN OPEN THENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INTALLATIONS DEEPEN THAN 4-FT. SECURITY BY USE OF THE TIERS BOX.

1. SHAD BLANKET MAY BE OMITTED FOR REPORTED CONCRETE PIPE.

3. SHAD BLANKET MAY BE OMITTED FOR REPORTED CONCRETE PIPE.

WATER PIPE TRENCH INSTALLATION DETAIL



MINIMI	JN THRU INST UN	IST BLO DISTURE	CK BEAF	RING ARE	A REO'D
PIPE	90 BEND	TEE	PLUG	45 BEND	221/2" SMALLE
6*	5	4	3	2	2
8"	10	8	6	6	3
12"	24	18	8	12	8

SIZE OF THRUST BLOCKS MAY BE INCREASED BY THE ENGINEER TO MEET SOIL CONDITIONS FOUND DURING CONSTRUCTION.

WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE

				1	DUCTI	LE IR	ON N	IECHA	VICAL	RETE	RAINE	D LEN	GTH	(FEET			_			
0.05								BEN	IDS									DEAD	END	,
PIPE		11	1/4"			22	1/2			4	5'			9	0.					
(INCHES)	50 psi	100 psi	150 psi	200 psi																
2"	0	0	1	1	0	1	1	1	1	1	2	3	2	4	5	7	4	8	12	17
6"	0	0	1	1	1	1	2	2	1	2	3	4	3	5	8	10	6	12	18	23
8"	0	1	1	1	1	1	2	3	1	3	4	6	3	7	10	13	8	15	23	31
10"	0	1	1	2	1	2	2	3	2	3	5	7	-4	8	12	16	9	19	28	37
12"	0	1	1	2	1	2	3	4	2	4	6	8	5	9	14	19	11	22	33	44
				TE	E*							REDU	JCER							
		SAME	SIZE		ONE	SIZE	SMA	LLER	ONE	SIZE	SMA	LLER	TWO	SIZE	SMA	LLER				
	50 psi	100 psi		200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi		50 psi	100 psi						
2"	1	1	1	1	1	1	1	1	1	3	4	5	-	-	-	-				
6"	1	1	1	4	1	1	1	1	3	6	9	12	4	8	12	16				
8"	1	1	3	11	1	1	1	1	3	6	10	13	6	11	17	22	1			
10"	1	1	8	17	1	1	1	6	3	6	10	13	6	11	17	23				
12"	1	2	13	24	1	1	4	13	5	11	16	22	6	12	18	23				

* BASED ON A MINIMUM ATTACHED PIPE ALONG RUN (Lr) = 5 FEET

MECHANICAL RESTRAINED LENGTH SCHEDULE

NOT TO SCALE

NOIES:

I. PIPE IS BURIED TO A DEPTH OF 6 FEET WITH A MINIMUM OF 4 INCHES OF COMPACTED
GRANULAR MATERIAL UNDER THE PIPE TO THE SPRING LINE OF THE PIPE.

2. THE EXISTING SOIL IS POORLY GRADED GRAVEL AND GRAVEL SAND MIXTURE WITH LITTLE TO
NO FINES. NO FINES.
3. ALL CALCULATIONS ARE BASED ON A FACTOR OF SAFETY OF 1.5 TO 1.
4. ALL CALCULATIONS ARE BASED ON THE "RESTRAINED LENGTH CALCULATION PROGRAM" BY EBAA IRON, INC., RELEASE 3.1.

FILE NO. 166 PLAN NO.C-3043 DWG. NO. 19138/S-1 TYPICAL DOMESTIC SERVICE CONNECTION NOT TO SCALE

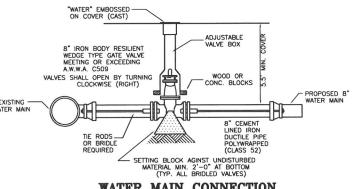
HYDRANTS ARE TO BE KENNEDY GUARDIAN MODEL #KB1A W/6" MECHANICAL JOINT SHOE W/BREAK FLANGE TO BE PROVIDED W/DRAIN-OPENING CLOCKWISE (RIGHT).
HYDRANTS SHALL MEET OR EXCEED ALL REQ. OF A.W.W.A. EXMINIBRIANT SHORT CAN BE COMMENTED THE COMMENT OF THE STANDARD SPEC, C502 HYDRANTS TO BE OSHA RED W/WHITE FLOURESCENT BONNET & NOZZLE CAPS E/W 1-41/2" PUMPER & 2 21/2" NOZZLES 11/2"PENTAGON NAT. STANDARD OPERATING NUT EDGE OF ROAD PVMT. 3/8"- 3/4" CLEAN SCREENED GRAVEL OR CRUSHED STONE PIT 3' DIA. & 2' DEEP TO 6" ABOVE DRAIN SIDEWALK 2,500 LB.
POURED CONC.
THRUST BLOCK
5S.F. AGINST
UNDISTURBED
EARTH 6" IRON BODY RESILIENT WEDGE TYPE GATE VALVE MEETING OR EXCEEDING VALVES SHALL OPEN BY TURNING CLOCKWISE (RIGHT) DRAIN — (PLUGGED) FELT PAPER BETWEEN PIPE AND CONCRETE

TYPICAL HYDRANT SECTION

TIE RODS OPT. (IF USED THRUST BLOCK AT HYD. MAY BE OMITTED)

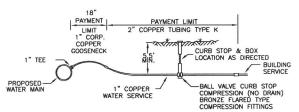
LINED DUCTILE

NOT TO SCALE



WATER MAIN CONNECTION

NOT TO SCALE



NOTE: SERVICE LINE SHALL BE TYPE K COPPER CONFORMING TO ASTM-D88

NORWAY PLAINS ASSOCIATES, INC.

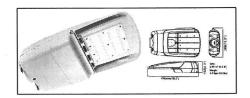
SETTING BLOCK AGINST

MATERIAL MIN. 2'-0" AT BOTTOM (TYP. ALL BRIDLED VALVES)

CIVIL ENGINEERS

CAREFULLY REWEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.





CITY OF ROCHESTER LIGHT FIXTURE

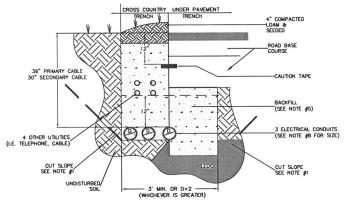
NOT TO SCALE

- PROPOSED COBRA HEAD LIGHT SHALL BE MOUNTED ON THE PROPOSED UTILITY POLE AT THE ENTRANCE OF THE PROPOSED ROADWAY. COORDINATE INSTALLATION WITH THE PROPOSED COBRA HEAD STYLE LIGHT FIXTURE SHALL BE AN AFFIRITY MODLE SB00—25W—30X—CCT—10V WITH WHITE HEADS.
 CONTRACTOR SHALL CONTACT THE CITY OF ROCHESTER PUBLIC WORKS DEPARTMENT PRIOR TO ORDERING AND INSTALLING THE FIXTURE TO VERIFY THE FIXTURE SPECIFICATIONS.

GENERAL UTILITY NOTES

- CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION.

 ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.
- DESCRIPTION OF THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR INPUED.



NOTES:

1. ALM ON METALLY COMMIT AND PITTINGS SHALL BE ELETINGLA GRADE, SONDULE 40 PMC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF MAN TO 1-1909, AND BE IN LUSTED, GOLD GRADE AND COLORED COMMITTAIN THE PROPER PICE AND AND LUSTED. GOLD COMMITTAIN THE PROPER PICE AND AND LUSTED COMMITTAIN THE PROPER PICE AND AND LUSTED COMMITTAIN THE PROPER PICE AND AND LUSTED COMMITTAIN THE PROPER PICE AND LUSTED COMMITTAIN THE PICE AND LUSTED COMMI

- OF TROOTH LIMPS, ROOSS, DEBRIS, AND RUBBISH, ORCANIC MATERIAL SHALL BOT BE USED AS BACKFILL BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6-FINCH LATERS.

 A SUTRABLE PULL STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE PSHIS IS NOTIFIED TO INSTALL CABLE. THE STRING A SURVEY DID AND BE AND THE STRING A SURVEY DID AND BE AND THE STRING A STRING TO THE CONDUIT STRING TO THE CONDUIT STRING TO THE STRING TO THE CONDUIT DONE BY THE CONTRACTOR. THE PSHIS SURVEY STRING TO THE CONTRACTOR THE CONTRACTOR THE CONTRACTOR THE SERVEY STRING THE CONTRACTOR'S RESPONSIBLE TO LOCKET AND THE SURVEY STRING THE STR

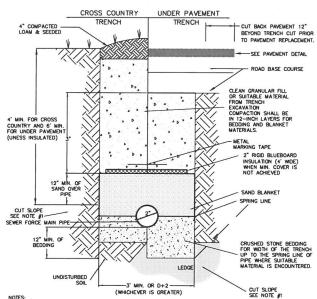
ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

2 Continental Blvd., Rochester, N.H. 603-335-3948



- NOTES:

 NOTE 31

 NOTES:

 NY BE INSTALLED BY EXCANSING AN OPEN TERNOH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INTALATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

 PIPE MATERIAL SHALL BE AS SPECIFED ON THE DESIGN PLAN.

 SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

 HIFTER SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, THE SHEETING SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AND AT LEST 3 FEET BELOW PINISHED GRADE.

 THE PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT TOO PERCENT PASSES A \$1200 SIEVE.

 THE PIPE SAND BLANKET MATERIAL IS AND A MAXIMUM OF 15 PERCENT PASSES A \$1200 SIEVE.

 THE PIPE SAND BLANKET MATERIAL IN COMMAY LOCATIONS SHALL BE NATURAL MATERIALS.

 THE PIPE SAND BLANKET MATERIAL TOOL SIEVE AND A MAXIMUM OF 15 PERCENT PASSES A \$1200 SIEVE.

FILE NO. 166

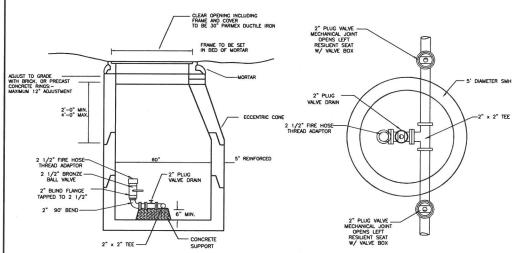
PLAN NO.C-3043 DWG. NO. 19138/S-1

- PIECES OF PAWEMENT:
 ORGANIC MATTER;
 TOP SOIL;
 WET OR SOFT MUCK;
 PEAT OR CLAY;
 PEAT OR CLAY;
 ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION; AND
 ANY MATERIAL NOT APPROVED BY THE ENGINEER.

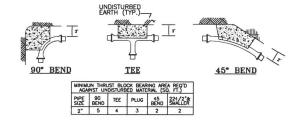
FORCE MAIN SEWER PIPE

TRENCH INSTALLATION DETAIL NOT TO SCALE

ELEVATION VIEW

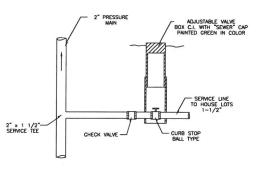


CLEANOUT MANHOLE DETAIL



NOTE: SIZE OF THRUST BLOCKS MAY BE INCREASED BY THE ENGINEER TO MEET SOIL CONDITIONS FOUND DURING CONSTRUCTION.

SEWER MAIN THRUST BLOCK DETAILS

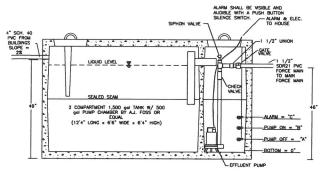


PUMP DISCHARGE LINE

CONNECTION TO MAIN DETAIL NOT TO SCALE



CIVIL ENGINEERS



SEPTIC TANK & PUMP DETAIL

NOT TO SCALE

- NOTES:

 I INSTALL 2" PVC VENT FROM THE PUMP CHAMBER TO THE HOUSE.

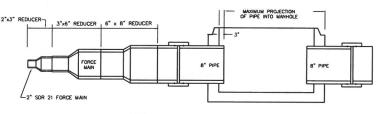
 2. INSTALL THE GATE VALVE ON A 45 DEGREE FROM VERTICAL.

 2. INSTALL THE GATE VALVE ON A 45 DEGREE FROM VERTICAL.

 3. INSTALL THE GATE VALVE ON A 45 DEGREE FROM VERTICAL.

 4. INSTALL THE GATE VALVE OF THE CONTROL OF THE FOR THE PROPERTY OF THE FOR THE PARTY OF THE FOR THE PROPERTY OF THE FOR THE PARTY OF THE
- FIFES UP 4 FEET PER SECOND.

 THE CONTRACTOR SHALL PROMDE ENGINEERED PUMP SPECIFICATIONS AND SEPTIC TANK
 SIZING TO THE ROCHESTER DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO
 INSTALLATION.



SEWER MANHOLE CONNECTION

NOT TO SCALE MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME

HYDRATED LIME	SAND	TYPE II PORTLAND CEMENT
NONE	4.5 PARTS	1.5 PARTS
0.5 PARTS	4.5 PARTS	1 PART

CEMENT SHALL BE TYPE II PORTIANO CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED. HYDRATED LIME SHALL BE TYPE I THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED. SAND SHALL CONSIST OF INERT MATURAL SMOTH THAT IS SUPPLIER AS CONFORMING TO THE ASTM C3.3 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY "STANDARD SPECIFICATIONS FOR CONCRETE. IN THE AGORIGATES."

NOTES:

1. IT IS INTENTION OF THE CITY OF ROCHESTER PUBLIC WORKS DEPARTMENT THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS,
HAVE ACCOUNTE SPACE, STRENGTH AND LEAK PROOF GOULDIES CONSIDERED INCESSANT BY THE PUBLIC WORKS DEPARTMENT FOR
AN ASSEMBLY OF PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST
MONOLITHEAULT IN PLACE WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST
MONOLITHEAULT IN PLACE WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST
MONOLITHEAULT IN PLACE WITH OR RIVER SHOULD DESCRIBE THE CONFILET STRINGE SHALL BE
OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOOS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAWAGE
PERIOD GENERALLY IN PLACESS OF 25 YEARS IS TO BE UNDESTROOM IN GROUSS. FOR THE LIFE OF THE STRUTTURE, A
PERIOD GENERALLY IN PLACES OF 25 YEARS IS TO BE UNDESTROOM IN GROUSS. FOR THE LIFE OF THE STRUTTURE, A
PERIOD GENERALLY IN PLACES SCHOOK, SHALL BE PRECAST REINFORCED CONCRETE, OR POURED IN PLACE REINFORCED CONCRETE.

3. PRECAST CONCRETE BARREL SCHOOK, SONE AND BASES SHALL CONFORM TO ASTIN CAPE, ALL PRECAST ECTIONS AND BASES
SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEDWAYN OF THE MANUFACTURER IMPRESSED OR INDICATELY MARKED
ON THE WISCHES WALL.

CEROM MESSAGE BROCK STREAMS AND COVERS SMALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR GENNAL AS INCESSIVE TESTING IS COMPLETED SWENTER AND COVERS SMALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR GENNAL AS INCESSIVE TESTING IS COMPLETED SWENT FOR SEWER FOR SWENTER OF DRAIN'S SMALL BE PLANKY CAST INTO THE CENTER SWENT FOR SWENTER OF DRAIN'S SMALL BE PLANKY CAST INTO THE CENTER SWENT FOR SWENTER OF THE PROVIDED SWENTER OF THE PROBLEM SWENTER OF THE PROVIDED SWENTER OF THE SWENTER OF THE PROVIDED SWENTER OF THE PROVIDED SWENTER OF THE P

T. THE COMPLETED HOUSE SEWER SHALL BE SUBJECTED TO A LEAKAGE TEST IN ANY OF THE FOLLOWING MANNERS (PRIOR TO

TERIOD.

18. TESTING. THE COMPLETED HOUSE SEKER SHALL BE SUBSCREED TO A LEAVAGE TEST IN ANY OF THE FOLLOWING MANNERS (PRIOR TO BACKFLLING)

A. M. OBSERVATION TEE SHALL BE INSTALLED AS SHOWN AND, WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUIG SHALL BE INSTALLED AS SHOWN AND, WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUIG SHALL BE INSTALLED AS SHOWN AND, WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUIG SHALL BE INSTALLED AS SHOWN AND, WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUIG SHALL BE LEFT EXPOSED AND LIBERALLY HOSCO WITH THE PRIOR SHALL BE LEFT EXPOSED AND LIBERALLY HOSCO WITH THE PRIOR SHALL BE LEFT EXPOSED AND LIBERALLY HOSCO WITH THE PRIOR CONDITIONS OR, IF THE TRENCH IS WET, THE GROUND WATER SHALL BE PERMITTED TO RISE IN THE PRIOR HOSCO WITH A PLASSILLED. AS FEARING THE PRIOR HOSCO WITH A PLASSILLED AS THE TRENCH OVER THE PRIOR HOSCO WITH A PLASSILLED AS THE TRENCH OVER THE PRIOR CONDITIONS OF THE PRIOR SHALL BE COMPLAINED TO RISE IN THE TRENCH OVER THE PRIOR CONTROL FOR THE TRENCH OVER THE PRIOR CONTROL FOR THE TRENCH OVER THE PRIOR SHALL BE AND THE PRIOR TO MONSTREAM MANNALL BE AND THE PRIOR TO MONSTREAM MANNALL BE AND THE PRIOR OF THE ABOVE ALTERNATE TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE AND THE PRIOR DUGGEN TO PRIOR SHALL BE AND THE PRIOR TO MONSTREAM MANNALL BE PERMITTED. TO PRIOR THE PRIOR SHALL BE AND THE PRIOR TO PRIOR SHALL BE AND THE PRIOR TO PRIOR SHALL BE AND THE PRIOR TO PRIOR SHALL BE PERMITTED. TO PRIOR SHALL BE AND THE PRIOR THE PRIOR SHALL BE AND THE PRIOR SHALL BE AND THE PRIOR TO PRIOR SHALL BE PERMITTED. TO PRIOR SHALL BE AND THE PRIOR SHALL BE ADMITTED. TO PRIOR SHALL BE ADMITTED. THE PRIOR SHALL BE ADMITTED. TO PRIOR SHALL BE ADMITTED. THE PRIOR SHALL BE ADMITTED. THE SHALL BE CONTROL TO THE PRIOR SHALL BE ADMITTED. AND THE PRIOR SHALL BE ADMITTED. AND THE PRIOR SHALL BE ADMITTED. THE PRIOR SHALL BE ADMITTED. THE MUNICIPAL RECORDS. IN ADDITION, A FERROLUS META

LOW PRESSURE SEWER & SEPTIC TANK DETAILS TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

C-7

NOTES.

1. THE FLUSHING MANHOLE CONSTRUCTION SHALL MEET ALL DEGIGN REQUIREMENTS OF A SANITARY MANHOLES, SEE NOTES THIS SHEET.

2. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARREL SHALL BE OF AN OVERLAPPING TYPE, SEALED FOR WATER-TIGHTNESS USING A DOUBLE ROW OF AN ELASTOMERIC OR MASTIC—LIKE SEALANT.

3. PIPE TO MANHOLE JOINTS SHALL BE AS FOLLOWS:

(1) ELASTOMERIC, RUBBERS SLEEVE WITH WATERTICHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES.

(2) CLASTOMERIC, SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND AND SHALL BE CONCRETE WITH AMAINOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND AND SHALL SECONDARY SHALL BE CONCRETE ON THE ANAINOLE AND PIPE CAN BE GOTTAND.

(4) NON-SHRINK GROUTED JOINTS WHERE WATERTICHT BONDING TO THE MANHOLE AND PIPE CAN BE GOTTAND.

5. PRECAST SECTIONS AND BASES SHALL BE CONCRETED ON THE EXTERTION WITH A BITUINHOUS DUMP—PROOFING COATING.

5. PRECAST SECTIONS AND BASES SHALL BE CONCRETE ON THE ASTERIOR WITH AS BITUINHOUS DUMP—PROOFING COATING.

6. CONCRETE FOR MANHOLES AND CONCRETE GRADE RINGS SHALL CONCROM TO THE REQUIREMENT FOR CLASS AA CONCRETE IN THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATIONS STAILD SHOULD CONSTRUCTION.

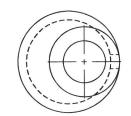
7. REINFORCING FOR CONCRETE MANHOLES AND CONCRETE GRADE RINGS SHALL BE STEEL OR STRUCTURAL PIBERS THAT CONFORM TO THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATIONS STAIL SHOULD CONSTRUCTION.

7. REINFORCING FOR CONCRETE MANHOLES AND CONCRETE GRADE RINGS SHALL BE STEEL OR STRUCTURAL PIBERS THAT CONFORM TO THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATIONS STRAIL GROUND CONSTRUCTION.

8. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL BE CRETEFIED BY THEIR MANUFACTURER, WHICH SHALL BE CONNECTED AUTOMATICALLY SHOULD MAIN POWER FAILURE.

8. PROOF THE POWER SOURCE FOR THE ALARM SYSTEM SHALL BE CRETEFIED BY THEIR MANUFACTURER, WHICH SHALL BE CONNECTED AUTOMATICALLY SHOULD MAIN POWER FAILURE.

10. A CONNECTION FOR A PORTABLE GENERATOR HOOK—UP SHALL



PLAN VIEW

DRAIN LINE DIAMETER	SUM OF DRAIN LINE DIAMETER	CATCH BASIN DIAMETER
15" TO 18"	LESS THAN 54"	4'
21" TO 27"	LESS THAN 72"	5'
30" TO 33"	LESS THAN 90"	6'
36" & LARGER	GREATER THAN 90"	REFER TO THE STANDARD

NOTES: 1. CONCRETE: 4,000 PSI AFTER 28 DAYS. 2. REINFORCING: SHALL BE PROVIDED FOR H-20

- LOADING.

 SHIPLAP JOINTS SEALED WITH 1 STRIP OF BUTYL.
 RUBBER SEALANT.

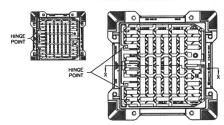
 A PIPE OPENINGS CAST IN AS REQUIRED.

 5. RISER HEIGHT VARIES 1', 2', 3' OR 4' TO REACH
 DESIRED DEPTH.
- 3. SEE SLAB TOP DETAIL FOR STRUCTURES REQUIRING SLAB TOPS, I.E. DOUBLE GRATE AND FRAME STRUCTURES.

SECTION VIEW

PRE-CAST REINFORCED CATCH BASIN

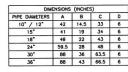
NOT TO SCALE



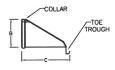


24" REXUS DI CB F & GRATE 62114 CB3R





TOP VIEW





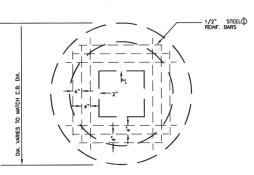
SIDE VIEW

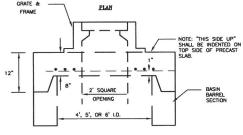
FRONT VIEW FLAIRED END SECTION DETAIL

NOT TO SCALE

FILE NO. 166 PLAN NO.C-3043 DWG. NO. 19138/S-1 F.B. NO. "33" "CEK"

31 Mooney Street, Alton, N.H. 603-875-3948

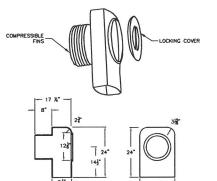




SLAB TO BE PLACED IN LIEU OF TAPERED SECTION WHERE PIPE WOULD OTHERWISE ENTER INTO TAPERED SECTION OF THE STRUCTURE AND WHERE

REINFORCED CONCRETE SLAB COVER

NOT TO SCALE



ELIMINATOR CATCH BASIN OIL AND DEBRIS TRAP DETAIL NOT TO SCALE

FRONT VIEW

SIDE VIEW

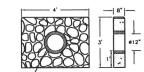
SI.

HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB
WWW.HLEASTERDA.COM
AVAILABLE IN 8", 10", 12", 15" AND 18" DIAMETERS.

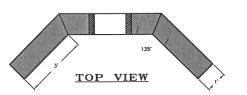
CIVIL ENGINEERS

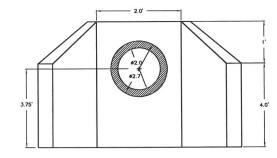
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)–335–3948.





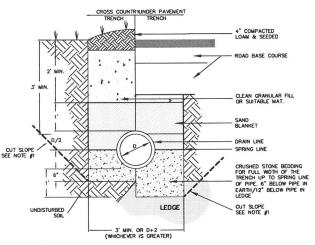
TYPICAL DRIVE HEADWALL
NOT TO SCALE





FRONT VIEW

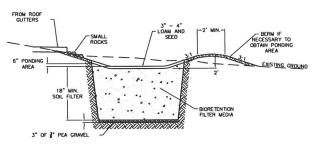
PRE-CAST HEADWALL



AY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A F 4-F.1. INTALLATIONS DEEPER THAN 4-F.1 REQUIRE THE USE OF A TRENCH BOX. THERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN. ANNET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

DRAINAGE PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE



CROSS SECTION

RAIN GARDEN DETAIL NOT TO SCALE

RDEN CONSTRUCTION AND MAINTENANCE NOTES FOR LOTS 10-2 THR 10-7 AND

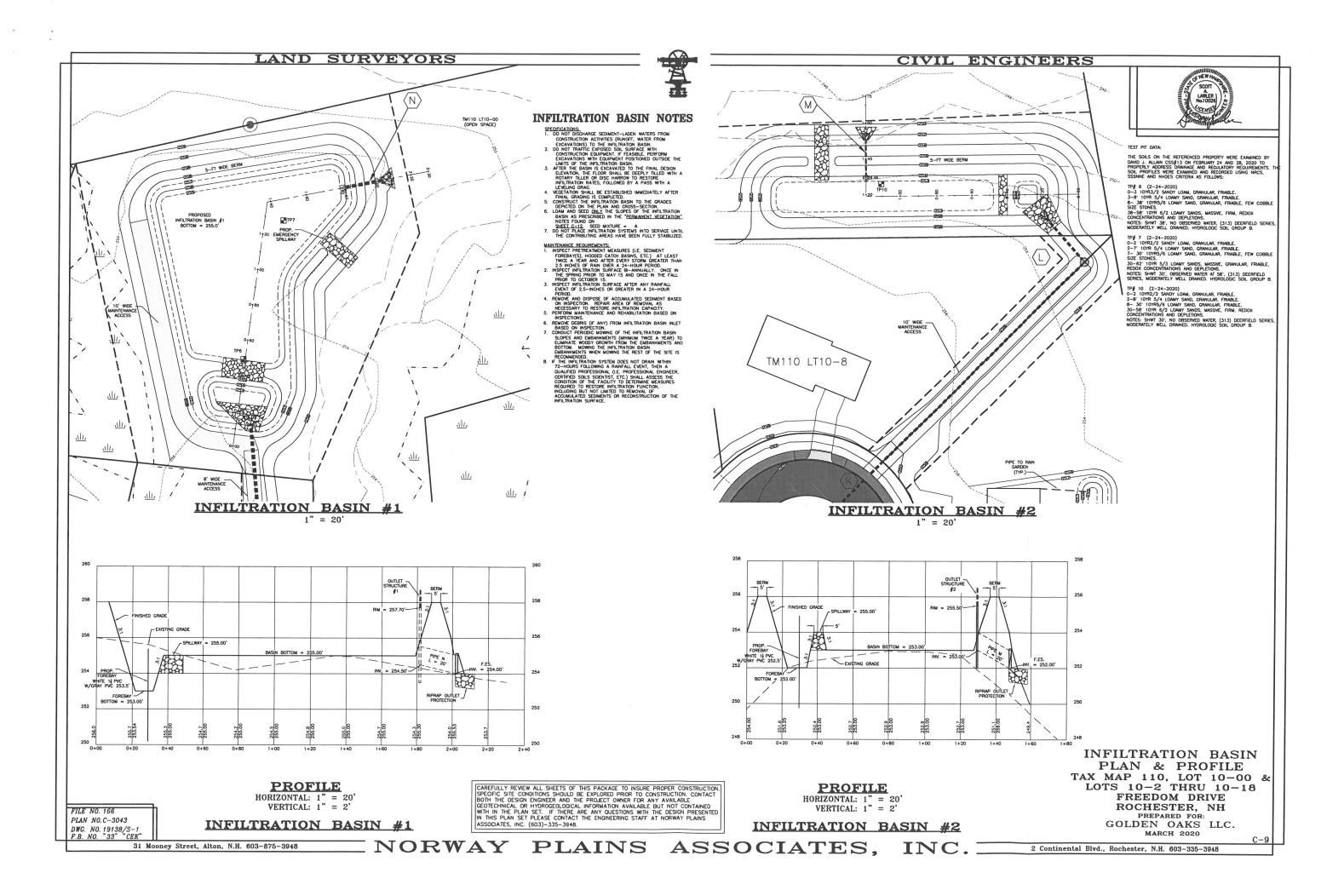
- 2.5 INCRES IN A 24-HOUR PERIOD, MIT MINITED FOR A STATE OF THE RAIN A 24-HOUR PERIOD. THE MEDICAL PROPERTY OF THE RAIN AND A STATE OF THE RAIN CARDEN DOES NOT DRAIN WHITH Z HOUSE FOLLOWING A RAINFALL EVENT. THAN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITIONS OF THE GRADEN TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION, INCLIDING BUT NOT LIMITED TO REMOVAL. OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDICAL PROPERTY OF RECONSTRUCTION OF THE FILTER MEDICAL PROPERTY OF THE PROPERTY OF THE

	SIGRETENTION FILTER ME	EDIA	
		GRAD	ATION OF MATERIAL
COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE
	FILTER MEDIA OPTION	A	
ASTM C-33 CONCRETE SAND	50 TO 55		
LOAMY SAND TOPSOIL, WITH FINES AS INDICATED	20 TO 30	200	15 TO 25
MODERATELY FINE SHREDDY BARK OR WOOD FIBERS MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
	FILTER MEDIA OPTION	8	
MODERATELY FINE SHREDDY BARK OR WOOD FIBERS MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
	70 TO 80	10	85 TO 100
		20	70 TO 100
LOAMY COURSE SAND		60	15 TO 40
		200	8 TO 15

DRAINAGE DETAILS TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

NORWAY PLAINS ASSOCIATES, INC. =



CONSTRUCTION

EROSION CONTROL MIX BERM CROSS-SECTION

EROSION CONTROL MIX BERM CROSS-SECTION

<u>ance requirements:</u> Sion control mix berms should be inspected immediately after each rainfall and at least

ISMY. DIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. DIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) OF THE

THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
IT MAY BE NECESSARY TO GUIT TAIL GRASSES AND WOOD'Y REGETATION TO AVOID CREATING VOIDS AND
BRODGES IN THE BARRIER THAT WOULD ENABLE FINES TO MASH UNDER THE BARRIER THROUGH THE GRASS
BLAUGS OR PLANT STEMS.
THE BARRIER MUST BE A MINIMUM OF 12-INCHES TAIL AS MEASURED ON THE UPHILL SIDE OF THE

EROSION CONTROL MIX

BERM DETAIL

NOT TO SCALE

BARRIER.

OL MIX BERMS SHOULD BE RESHAPED OR REAPPLIED AS NEEDED.

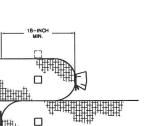
DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHOULD BE NORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

D PRODUCTS.

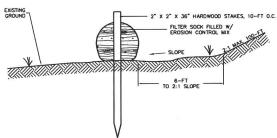
RK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE IS THE ORGANIC COMPONENT OF THE MIX.

JURING PROLONGED RAINFALL.

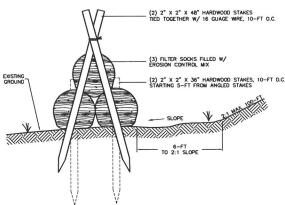
N CONTROL MIX BERMS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION
INJENTATION RELOW THEM GOSS OF BREACHING OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER HE EROSON CONTROL MIX BERMS SHOULD BE REPLACED WITH OTHER MEASURES TO TRAP SEDIMENT (SUCH AS A DIVERSION BERM DIRECTING RUNOFF TO A SCOMENT TRAP OR



FILTER SOCK CONNECTION



FILTER SOCK CROSS-SECTION



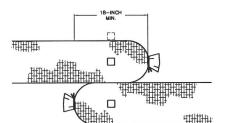
HEAVY DUTY PYRAMID FILTER SOCK

MAINTENANCE REQUIREMENTS:

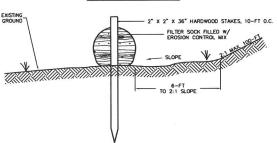
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS

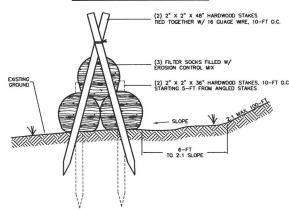
CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL NOT TO SCALE

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYPORGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948.



PLAN VIEW





CROSS-SECTION

CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):

1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRER AS IT ADDS CONTAINED MERMENT AND STABILITY TO A BERM OF EROSON CONTROL MIX.

2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVEWED AND APPROVED BY THE DESIGN BEGINES.

3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

CONSTRUCTOR SPECIFICATIONS.

CAMPOSTRUCTOR OF THE BROSON CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.

IT HE BARRIER MUST BE PLACED ALMON A RELATIVELY LEVEL CONTOUR.

IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLACES OF PLATMATISTIEMS.

BLACES OF PLATMATISTEMS.

INSTALLATION.

INFITRATION BASIN#1 RIM = 257.70' INFITRATION BASIN#2 RIM = 255.50'

THE SEDIMENT FOREBAY TO THE GRADES DEPICTED ON THE PLAN

CIVIL ENGINEERS

INFITRATION BASIN#1 BERM = 258.0' INFITRATION BASIN#2 BERM = 256.0'

12" DIA. PVC RISER

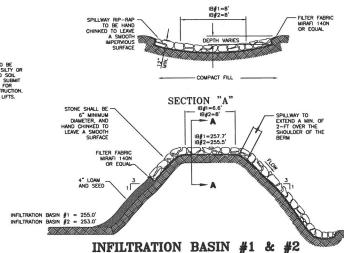
12" PV

INFILTRATION BASIN #1 & #2

OUTLET STANDPIPE DETAIL

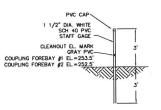
NOT TO SCALE

SEDIMENT FOREBAY



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



INFILTRATION BASIN #1 & #2 SEDIMENT FOREBAY GAUGE DETAIL

NOT TO SCALE

INFILTRATION BASIN DETAIL SHEET AND SILT SOCK AND EARTH BERM DETAIL TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

C-10

DWG. NO. 19138/S-1 31 Mooney Street, Alton, N.H. 603-875-3948

FILE NO. 166

PLAN NO.C-3043

B. ORGANIC MATTER = 25-65% DRY WEIGHT BASIS

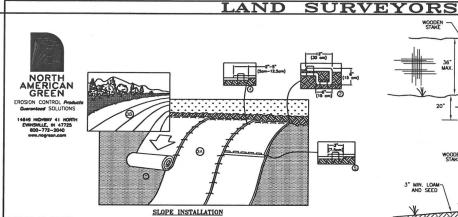
THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.

F. THE MIX SHOULD CONTAIN NO SILTS, CLAYS OR FINE SANDS.

H. pH OF THE MIX SHOULD BE BETWEEN 5.0 AND 8.0

THE BARRIER MUST BE A MINIMUM OF 2-FT WIDE.

C. PARTICLES PASSING BY WEIGHT: SCREEN: PASSING BY WEIGHT: 3-INCH 100%



SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEDING 1/2 INCH IN A 24-HOUR PERIOD.
MY FAULER SYALL BE REPARED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT
OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESECUED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.

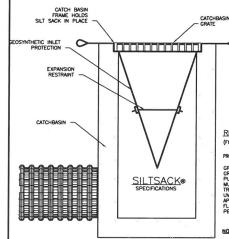
- THE PROPERTY OF THE PROPERTY O
- NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN,
 SIDE DOWN,
 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH.
 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) PORTON OF THE TRENCH. ANCHOR
 THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTON OF THE TRENCH.
 BACKPILL AND COMPACT THE TERCH ATTER STAPLING APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12"
 (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A
 ROW OF STAPLES/STAKES SAECED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S
 ROLL THE RECP'S (A) DOWN OR (8) HORIZONTALLY ACROSS THE SIDE, RECP'S WILL LUNGOLL WITH APPROPRIATE SIDE
 AGAINST THE SOIL SUFFACE CALL RECP'S MUST BE SECURELY FASTENED TO SOIL SUFFACE OF PLACING
 STAPLES/STAKES IN A PPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN QUIDE. WHEN USING THE DOT SYSTEM
 STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE
 STAPLE STARKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE
 STAPLE STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE
 STAPLE STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE
 STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" 5" (5 CM 12.5 CM) OVERLAP
 DEPENDING ON RECP's TYPF
- CUTIVE RECP'S SPUCED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN KIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART
- F PREPARATION:
 PROPER AT THE PROPERTIES OF THE PROPERTY OF THE PROTECTION MATTING WITH THE SOIL.
 CHOICE AND SHAPE AREA IF INSTALLATION.
 CHOICE AND SHAPE AREA IF INSTALLATION.
 PREPARE AND SHAPE AREA IF INSTALLATION.
 PREPARE AND SHAPE AREA IF INSTALLATION.
 PREPARE SECORED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 PREPARE SECORED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 PREPARE SECORED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 PREPARE SECORED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 PREPARE SECORED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.

 WICKORPORATE MEMORIMENTS, SUICH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
- SEEDING:
 A SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVOCETATION. SEEDING AFTER MAIN INSTALLATION IS
 OFTEN SPECIFIED FOR TURE REINFORCEMENT APPLICATIONS, WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS
 AND OTHER RAREAS DISTURBED DURING INSTALLATION MUST BE RESECTED.

 B. WHEN SOLI FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO
 FILLING THE MAT WITH SOL

TEMPORARY EROSION CONTROL BLANKET DETAIL

NOT TO SCALE



REGULAR FLOW SILTSACK . (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

GRAB TENSILE STRENGTH
GRAB TENSILE ELONGATION
PUNCTURE
MULLEN BURST
TRAPEZOID TEAR
UV RESISTANCE
APPARENT OPENING SIZE
FLOW RATE
PERMITTIVITY 300 LBS 20 % 120 LBS 800 PSI 120 LBS 80 % 40 US SIEVE 0.55 SEC -1

1. GEOSYNTHETIC SEDIMENT FILTER TRAP SHALL BE 'REGULAR FLOW SILTSACK &' OR APPROVED EQUAL. SPECIFICATIONS FOR SILTSACK & ARE DETAILED.

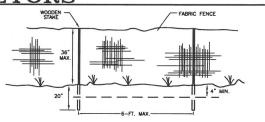
2. FILTER TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.25° OR GREATER AND SEDIMENTS SHALL BE REMOVED FROM TRAP WHEN SEDIMENT HAS REACHED TWO HIRDS OF THE DEPTH OF THE TRAP, OR IF PONDING OF WATER AT SUFFACE BEGINS TO OCCUR. DO NOT PUNCTURE FILTER TRAP TO MITIGATE PONDING.

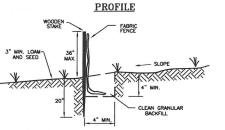
3. INSTALL SILT SACKS IN CATCH BASIN UPON INSTALLATION OF STRUCTURE.

CATCH BASIN GEOSYNTHETIC SEDIMENT TRAP NOT TO SCALE

31 Mooney Street, Alton, N.H. 603-875-3948

FILE NO. 166 PLAN NO.C-3043 DWG NO 19138/S-1





CROSS-SECTION

NITERANCE REQUIREMENTS:
FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS:
SEQUENT DEPOSITION SHALL BE RECORDED TO THE PROLONGED TO THE PROPOSITION SHALL BE RECORDED TO THE PROLONGED TO THE PR

- NT DEPOSITION SHALL BE REMOVED, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SILT
- E. AND LOVED TO AN APPROVENTIAL ELECATION SO THE SEDIMENT IS NOT READLY TRANSPORTED BACK TOWARD THE SILT FENCES SHALL BE REPAIRED MINDULTILLY IF THESE ARE ANY SORS OF EROSON OR SEDIMENTATION BELOW THEM, IF THESE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDOES OF THE BARRIER, OR IMPOLINDING OF LARGE VOLUMES OF WATER TO THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORAY OFFOX DAM. I. THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INSPECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND BARRIER STILL IS RECESSARY, THE FABRIC SHALL BE REPLACED FROMPLY. SEDIMENT DEPOSTS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DESSED TO CONFORM TO EXEMING GRADE PREPAIRED AND SEEDED. LEVEL IS EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM OHIEVE MESSINGS, SUCH AS TEMPORANT OWNERSOMS AND SEDIMENT TRANS.

- PERMODICALLY AS EQUIPMENT TO MAINTAIN EFECTIVENESS.

 CONSTRUCTION SPECIFICATIONS:

 1. FENCES SHALL BE USED IN AREAS WHERE EROSON WILL OCCUR ONLY IN THE FORM OF SHEET EROSON AND THERE IS NO CONCENTRATION OF WAITER IN A CHANGE, OR BRANAGE WAY ABOVE THE FENCE. SEDWENT BARRIERS SHALL BE INSTALLED PRIOR TO CONCENTRATION OF THE CONTINUE OF THE CANONIC PRIOR TO CONCENTRATION OF THE CANONIC PRIOR TO THE CANONIC PRIOR TO THE CANONIC PRIOR TO THE CANONIC PRIOR TO THE CANONIC PRIOR THE FENCE SHALL BE TO FEET;

 3. THE MAXIMUM EXORD OF SOOR ABOVE THE FENCE SHALL BE TOO FEET;

 4. THE MAXIMUM EXORD OF SOOR ABOVE THE FENCE SHALL BE TOO FEET;

 5. FENCES SHALL BE INSTALLED FOLLOWING THE CONTIOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND A THE FABRIC SHALL BE EMBEDDED AND AND AND AND ADDRESS OF THE FENCE SHALL BE EMBEDDED TO THE MANDAL OF A MOVES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCANATED INTO THE GROUND, OR IF STEE CONTIONIONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FABRIC SHALL BE EMBEDDED THE AUDITORIES OF B INCHES OF 3/4—INCH STONE;

 5. THE SOL SHALL BE COMPACTED OVER THE EMBEDDED TEARING;

 6. SEPPORT POSTS SHALL BE SERVED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST

 5. ANDONING SECTIONS OF THE FENCE SHALL BE OVERLAPED BY A MINIMUM BAD OF BIOCHES' (74 NOAPS IS PEFFERED). FOUR DETAILS AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST

 5. ANDONING SECTIONS OF THE FENCE SHALL BE OVERLAPED BY A MINIMUM OF BIOCHES' (74 NOAPS IS PEFFERED). FOUR DETAILS AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST

 5. ANDONING SECTIONS OF THE FENCE SHALL BE OVERLAPED BY A MINIMUM OF BIOCHES' (74 NOAPS IS PEFFERED). FOUR DETAILS AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST

 5. ANDONING SECTIONS OF THE FENCE SHALL BE OVERLAPED BY A MINIMUM OF BIOCHES' IN SECTIONS OF SECTIONS.

- STAULTING OF D.F.E.I;
 ADJOINING SCEIONS OF THE FENCE SHALL BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WRE—THED DIRECTLY TO THE POSTS WITH THREE DAGOMAL THE STAPLED OR HALLED TO TREES.
 FILTER FABRIC SHALL BE A PERMOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED THE MANUFACTURER OR SUPPLIES.
- OR SUPPLIER.

 LL CONTAN ULTRAMOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF STRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHOIT. TO 120 DEGREES FAHRENHOIT STEEL MITH A WINNIMUM DEL. POSTS SHALL HAVE, PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHALL BE PLACED ON THE INF FABRIC.
- OR SLIT FENCES SHALL BE ETHER 4-INDIC LIAMELER TWOOF 5 FEET. STEEL POSTS SHALL HAVE, PROLECTIONS FOR FASTEINING WRE TO THEM. POSTS SHALL BE PLACED UNTITLE
 OPE SIDE OF THE FABRIC.
 OPE SIDE OF THE FABRIC.
 OPE SIDE OF THE FABRIC.
 AND TO FA SLIT FENCE SHALL NOT EXCEED 36 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO
 FALLIER OF THE STRUCTURE.
 FOR FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 FER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 FER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 FER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE FABRIC SHALL BE
 FER FABRIC SHALL BE PURCHASED.

 FOR THE FABRIC SHALL BE PURCHASED.

 FOR THE FABRIC SHALL BE PURCHASED.

 FOR THE FABRIC SHALL BE
 FER FABRIC SHALL BE

- MIPOUND.

 19. THE ENDS OF THE FENCE SHALL BE TURNED UPHILL

 20. SLIT FENCES PLACED AT THE TOC OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW POLYDING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.

 21. SLIT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STREAMED.

SILTATION CONTROL FENCE DETAIL

TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

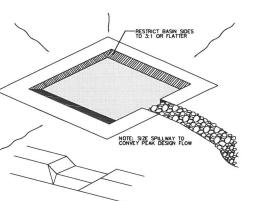
SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	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 RYE GRASS	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.
4-1			AGEMENT MANUAL, VOLUME 3, TABLE (AUGUST 1992)

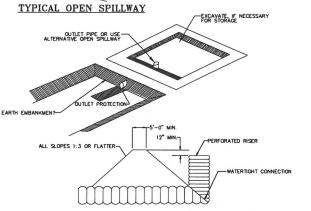


CIVIL ENGINEERS

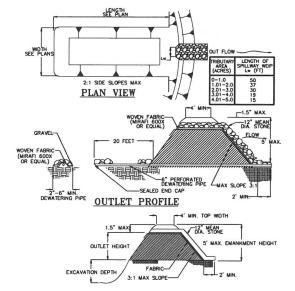
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335–3948.







EMBANKMENT SECTION THRU RISER



ALTERNATE OUTLET PROFILE

SEDIMENT TRAP

TEMPORARY VEGETATION:

- SPECIFICATIONS:
 STEE PREPARATIONS.
 INSTALL NEEDED EROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
 CORROLE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 RINGER SHALL BE DIVERTED FROM THE SEEDBED AREA.
 APPLICATION, AND MULCH ANCHORING.
 RINGER SHALL BE DIVERTED FROM THE SEEDBED AREA.
 PERPENDIQUILAR OT THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RENORS.
 SEFTIRED PREPARATION. PERPENDICULAR O THE DIRECTION OF THE SLOTE TO UNITED SET THE SEEDING AREA.

 1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

 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. FAPUCABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.

- SEASON.
 APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROCEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES.

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*COUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

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. HTDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10X WHEN HYDROSEDING.

- BY 10% WHEN HYDROSEEDING.

 1 TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.

 1 TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.

 1 TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.

 1 ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NIFSON, VOL 3.

 1 VECTITATED GROWTH COVERING AT LEAST SEX OF THE DISTORMED AREA SHALL BE ACREEDED PRIOR TO OCCUPANT AND CONTROL OF THE CONTROL IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER MINTER PROTECTION.

- MAINTENANCE REQUIREMENTS:

 1. 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 RESEDED TO ACHEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY IS TO A STABLE OF THE TEMPORARY AND A SEED TO A STABLE SHALL BE MADE AND A PEAS SHALL BE RESEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VECETATION ESTABLISHMENT.
 - (MAY BE 50' WHERE DIVERSION RIDGE IS PROVIDE)



TEMPORARY CONSTRUCTION EXIT

- MAINTENANCE REQUIREMENTS:

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

 THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED MAY.

 WHEN WHELE MUSCHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAWS INTO AN APPROVE SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAWS, DITCHES, OR WASTERNAYS.

- CONSTRUCTION SPECIFICATIONS:

 . THE MINIMUM STORE USD SHALL BE 3-INCH CRUSHED STONE.

 . THE MINIMUM STORE USD SHALL BE 3-INCH CORET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO SO FEET IF A 3-INCH TO 8-INCH DERMIS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.

 . THE PAO SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEYER IS

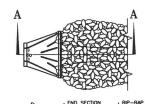
- 3. THE PAD SHALL BE THE FULL MINIT OF CASTERN AVENUE.
 4. THE PAD SHALL SLOPE ANNY FROM THE LESTERN AVENUE.
 5. THE PAD SHALL BE AT LEAST 6 NICHES THICK.
 6. THE GEOTESTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
 7. THE PAD SHALL BE MANITAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
 8. NATURAL DRAINAGE THAT CROSSEST THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

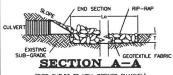
TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE

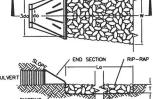
ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC.

MARCH 2020

C-11







SECTION A-A

RIP-RAP GRADATION

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZ	E OF STO (INCHES)	NE
100	5	TO	6
85	4	TO	- 5
50	3	TO	5
15	1	TO	2

% OF WEIGHT SMALLER		E OF STO	
THAN THE GIVEN SIZE		(INCHES)	
100	6	TO	8
85	5	TO	7
50	4	TO	6
15	1	TO	2
	200		
	SIZ	E OF STO	

			10.8		
85	7.8	TO			
50	6	TO			
15	1,8	TO	3		
	= 9"				
% OF WEIGHT SMALLER	SIZE OF STONE				
THAN THE GIVEN SIZE	(INCHES)				
100	13.5	TO	18		

APRON DIMENSION TABLE

	OUTLET PROT. #	PIPE OUTLET	Wo	W	Lo	T	d50
	1 - FB#1 PIPE H	24" CPP	6'	23'	17'	12"	3"
RIC	2 - OS#1 PIPE L	15" CPP	4'	15'	11'	12"	3"
	3 - OS#1 PIPE M	12" CPP	3'	12'	7'	12"	3"
	4 - OS#1 PIPE N	12" CPP	3'	12'	7'	12"	3"

NOTES:

ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH
THAT OF THE PIPE CULVERT.

THE LANGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND

- SIMPLICITY.

 3. APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS:
1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE

GEOTEXTILE FABI

- PLANS.

 MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP—RAP.

 MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP—RAP.

 THE ROCK OR GRAVEL USED FOR FILTER OR RIP—RAP SHALL CONFORM TO THE SPECIFIED GRADATION.

 GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF ROCK RIP—RAP. DAMAGED

 AREAS IN THE FABRIC SHALL BE REPARED BY PLACING A PICCE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE

 REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A
- MINIMUM OF 12 INOHES.

 STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SECREGATION OF THE STONE SIZES.

 RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL QUILETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTNANCE NOTES:

1. OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.

2. THE CHANNEL IMMEDIATELY DOMISTICATE THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING. THE CHANNEL IMMEDIATELY DOMISTICATE OF CLEAR OF OSSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDMENT THAT COLLD CHANNEE FROM PATTERNS AND/OF ATMINATED PHYSION THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AYOU ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.

 WATER APPLICATION:

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

 B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION, IN MATURAL WATERBOOKS.

- 3. SIDME_APPLICATION.

 A) COWE SIFFACE WITH CRUSHED OR COARSE GRAVEL.

 B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.

 RÉPER TO TIME HAMPSHIRE STORNWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION
 AND SEDIMENT CONTROLS, DECEMBER 2008* FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E.
 COMMERCIAL TACGREGER OR CHEMICAL TREATMENTS SUCH AS CALCUM CHORIGE, ETC.)

STOCKPILE PRACTICES:

- LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
- COURSES OR INLEIS. OR BUILDING WE WAS THE ROLL OF THE THE COURSES OF THE STOCKHEE, THE STOCKHEE THE STOCKHEE

- PROTECTION OF INACTIVE STOCKPILES:

 6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

 7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS. SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

 8. THE WATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

FILE NO. 166

PLAN NO.C-3043 DWG. NO. 19138/S-

F.B. NO. "33" "CEK"

- ROIECTION OF ACTIVE STOCKPILES:

 ALL STOCKPILES SHALL BE SURROLINDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.)
 PRIOR TO THE ONSETT OF PRECEDITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND
 ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE.
 THE INTEGRITY OF THE BARRIERS SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.
 WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

PERMANENT VEGETATION:

SPECIFICATIONS:

- SITE PREPARATION:

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

 2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH AMPLICATION, AND MULCH AMPLORING.

 3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

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

 SEDDED 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 COLIPMENT. THE FINAL

 HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A

 REASONABLY UNIFORM, PINE SEEDBED IS PREPARED. ALL BUT CLAY AND SLT SOILS SHALL

 BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

 REMOVE FROM THE SIRFACY ALL STONES ZIMCHES OR LARGER IN ANY DIMENSION. REMOVE

 AND OTHER THE SOIL HAS BRACE. ALBIT CLAY FEASIBLE.

 IN MYSECT SEEDBED JUST BEFORE SEEDING. FIT RAFFIE HAS LEFT THE SOIL COMPACTED; THE

 AREA MUST BE TILLED AND FRINED AS ABOVE.

 WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A

 DEPTH OF 2 INCHES BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A

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 DEPTH OF 2 INCHES BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A

 DEPTH OF 2 INCHES BY CONSTRUCTION OF BY A SOIL TEST WARRANTS OTHERWISE, IF SOIL TESTING IS NOT

 FEASIBLE ON SMALL OR VARIABLE SIES, OR WHERE THING IS CRITICAL FERTILIZER AND

 LIMISTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

- SEEDING.

 1. INCOULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INCOULANT.

 1. INCOULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INCOULANT.

 1. APPLY SEED UNFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER IN CONTROL SEED AND FERTILIZER), MORNAL SEEDING DEPTH IS FROM IVE TO THE NEW TOWN THE SEED SEEDING DEPTH IS FROM IVE TOWN THE NEW TOWN THE SEEDING DEPTH IS FROM IVE TOWN THE SEEDING DEPTH IS FROM IVE TOWN THE SEEDING DEPTH IS FROM IVE SEEDING DEPTH IN THE SEED OF HYDROSEEDER IS USED, THE SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIKES OR WITH LEGUMES.

 4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIKES OR WITH LEGUMES.

 5. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST, WHEN CROWN VETCH IS SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST, WHEN CROWN VETCH IS SEEDING OF THE SUMMER AT LEAST 35% OF THE SEED SHALL BE HAND SEED (UNSCARRIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATED IN MILLOH ACCORDING TO THE SEEDING OFFICIAL THE NEXT RECOMMENDED SEEDING PERIOD.

 5. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COMPRED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INSTANCE, WAS 15 AND AUGUST 15 SHALL BE COMED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INSTANCE, WAS 15 AND AUGUST 15 SHALL BE COMED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INSTANCE, WAS 15 AND AUGUST 15 SHALL BE COMED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE MESSAM VIOLENT OF THE SEEDING PRICE OF THE SEEDING PRICE OF THE SEEDING PRICE DESCRIBED THE SEEDING PRICE OF TH

- CROSSEDING.
 WHEN HYDROGSEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE ON BY HAND RAWING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

 SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY. BLIME AND FERTILIZER MAY BE APPLIED SMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER FORECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADMESVE MATERIALS OR SOO PROVISE FOR FORE OF WOOD FIBER MULCH.

 SEEDING RATES MUST BE INCREASED BY 10 SWE OF WOOD FIBER MULCH.

- MAINTENANCE REQUIREMENTS:

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

 2. SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION, MORNING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.

 BASED ON INSPECTION, AREAS SHALL BE RESECTED TO ADMITE ITABILIZATION OF
- BASE) ON INSPECTION, AREAS SMALL BE NESSELDED.

 EXPOSED SOILS.

 AT A MINIMUM BSK OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.

 IF ANY EVIDENCE OF EROSION OR SEDMENTATION IS APPARENT, REPAIRS SHALL BE MADE.

 MINIMUM BSK OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.

 IF ANY EVIDENCE OF EROSION OR SEDMENTATION IS APPARENT, REPAIRS SHALL BE MADE.

 MINIMUM SHAPE AND AREAS SHALL BE RESECTED, 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	^	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	^	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	۸	TALL FESCUE CREEPING RED FESCUE REDTOP 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

URCES: NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3 MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

CONSTRUCTION PHASING:

CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL. INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES INC (60.3).335.336.348 ASSOCIATES, INC. (603)-335-3948.



PROJECT SPECIFIC CONSTRUCTION PHASING:

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

 ANN AREAS THAT WILL NOT ER EAVED:

 O A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;

 O A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED; A MINIMUM OF 85% VEGLATIVE COVEN HAS BEEN ESTABLISHED.
 A MINIMUM OF 3—INCHES OF NON-ERGSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
 C) ERGSION CONTROL BLANKETS HAVE BEEN INSTALLED.
- TEMPORARY STABILIZATION.

 BLAREAS OF EXPOSED OR DISTURBED SOLIS SHALL BE TEMPORARILY STABILIZED AS SOON AS PROCLOSED OR DISTURBED SOLIS SHALL BE TEMPORARILY STABILIZED AS SOON AS PROCLOSED OR DISTURBED SOLIS SHALL BE TEMPORARILY STABILIZED AS CONSTRUCTION STABILIZED AS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN
- DOUGHEROUSE SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPRINCENT MONITOR.

 PERMANENT STABILIZATION:
 ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZATION:
 ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZATION:
 AN SIONN AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
 AN SIONN AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING CONSTRUCTION,
 MORE THAN 5 ACRES SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME.
 ONLY DISTURBED, GLEAR, OR GRADE AREAS NOT TO BE DISTURBED.
 A) FLAG OR OTHERWISE DELINEARE AREAS NOT TO BE DISTURBED.
 B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO
 B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO
 CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND
 DRAINAGE PLAN DEPICTED ON SHEET C-3
 ALL ERGOSION AND SEQUENT CONTROL CONTROL THE APPROVED GRADING AND
 DRAINAGE PLAN DEPICTED ON SHEET C-3
 ALL ERGOSION AND SEQUENT CONTROL PRACTICES AND MEASURES SHALL BE
 CONSTRUCTED. APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED GRADING AND
 DRAINAGE PLAN DEPICTED ON SHEET C-3
 ALL ERGOSION AND SEQUENCE CONTROL CONTROL
- IN THE AUGUNT NECESSARY TO COMPLETE PINISHED GRADING AND BE PROTECTED 1 FROM EROSION.

 9. STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE CREATED AND STRENPED OF PROTECTION AGAINST SEDIMENTATION, EROSION, SUPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.

 11. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER GRECHTONABLE MATERIALS.

 12. AREAS SHALL BE SCARIFED TO A MINIMUM DEPTH OF 3-INCHES PRICR TO PLACEMENT OF TOPSOIL TO MINIMUM DEPTH OF 3-INCHES PRICR TO PLACEMENT OF TOPSOIL TO SUBJECT OF THE ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SUPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DRIVEN SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SUPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BULLDINGS, STRUCTURES, STE UTILIES, COMULIS AND OTHER FACILITIES, SHALL BE COMPACTED IN ALTERS AND ONE FOR ACCORDING SHALL REVIEW THE PROJECT OF COURSE OF THE CONTRACTOR SHALL REVIEW THE PROJECT OF COURSE OF THE CONTRACTOR SHALL REVIEW THE PROJECT OF SPECIFIC GUIDANCE.

 15. ANY AND ALL BLAND HAS BEEN OF THE STABLED AND STRUCTURES. STE UTILIES, COUNTRIES AND STRUCTURES WITH STAND WITH STABLED AND STRUCTURE SHALL REVIEW THE PROJECT OF SPECIFIC GUIDANCE.

 15. ANY AND ALL BLAND HAS BEEN SHALL BE TREE OF BROYS, RUBBERS HOOSY (LANGER DEPORT) AND OTHER THAN SHALL BE THE OTHER SHALL SHALL BE ALLOWED TO STAYLOOSE, BUILDING DEPORTS, FROZEM MATERIAL, AND DITTE OF RESCRIPTION AND FORT SHALL BE ALLOWED TO STAYLOOSE, NOT MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED SHOULD SHALL BE ALLOWED TO STAYLOOSE, NOT MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. MONEY IN AREAS OF THESE MATERIAL
- CONSTRUCTION PHASING:

 1. REFER TO THE "GENERAL CONSTRUCTION PHASING". NOTES PRICE TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE TO-COMMENCING CONSTRUCTION AND SHALL BE ADHERD TO COMMENCING CONSTRUCTION AND SHALL BE ADHERD TO COMMENCING CONSTRUCTION AND SHALL BE ADHERD TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERD TO.

 2. INSTALL ALL TEMPORARY SCIMENT CONTROL BANKERS (TE. SLT FENCE, ENGINEER) CONTROL THE STATE OF THE CONSTRUCTION AND THE PRINETER OF THE CONSTRUCTION SHALL BE STATED AND THE COLOR PRINETER OF THE CONSTRUCTION SHALL BE DEPICTED ON SHEET C.—2.4 PRIOR TO EARTH MOVING OPERATIONS.

 3. INSTALL CRANGE SHOW FENCE AROUND THE PREMITER OF THE INFILITATION BASINS AND THE FENCE SHALL READ IN PLACE AND THE CONSTRUCTION OF THE INFILITATION AND SHALL BE DISPOSED OF OFF-STEEN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

 3. INSTALL A TEMPORARY CONSTRUCTION EXIT AT INTERSECTION OF FREEDOM DRIVE, AND EASIERN AND AND THE SHEET SHALL PRICE SHALL BE DISPOSED OF OFF-STEEN IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

 3. INSTALL A TEMPORARY CONSTRUCTION EXIT AT INTERSECTION OF FREEDOM DRIVE, AND EASIERN AND AND THE SHEET SH

 - ENGRICA CASTINUL AND STORMMATER MANAGEMENT PRACTICES SHOULD BE INSPECTED MEEKLY, AFTER EVERY 1/2 INCHO OF RAINFALL, AND ANNUALLY. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMMATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.

 - PRACTICE.

 ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSON CONTROL
 AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPARED OR
 REPLACED MINEDIA TELL YEON NOTICE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OR OFF SITE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OR OFF SITE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OR OFF SITE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OR OFF SITE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OR OFF SITE.

 BEDIMENT SHALL BE USPOSED STORM TO SHEET OF SHEET OR SHEET OF SHEET OR SHEET OF SHEET OR SHEET OF SHEET OR ANY
 DISTURBANCE CREATED DURING REMOVAL. SHALL BE REPAIRED IN AN
 APPROPRIATE MANNER. SHALL BE REMOVED. FOR MALL ON SITE CATCH.
 - APPROPRIATE MANNER.

 ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH

 BASING AND THE SEDIMENT FOREBAY.

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MAINTENANCE REQUIREMENTS.

 1. MANITENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SHOWSTORM, OR PERIOD OF THAMMIG AND RUNGEF, THE SITE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSING CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSIRE THEIR SHEEL TO THE MARKET SHALL CONTROL TO THE OWNER OF THE WINTER SEASON, THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCENTIAN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTREMISHED VECTATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

- 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.)

 THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM COTOBER 15 THROUGH MAY 15.

 THE AREA OF EXPOSED, UNSTABLIZED SOIL SHALL BE LIMITED TO 1_ACRE AND SHALL BE PERIOD FROM COTOBER 15 THROUGH MAY 15.

 THE AREA OF EXPOSED, UNSTABLIZED SOIL SHALL BE LIMITED TO 1_ACRE AND SHALL BE PRICED TO AGAINST EROSION BY THE METHODS DISCUSSED IN THE AREA OF EXPOSED, WITHOUT SHALL BE PRICED TO AGAINST EROSION BY THE METHODS DISCUSSED IN THE AREA OF EXPOSED. THE AREA OF EXPOSED AND THE METHOD SO INSCUSSED IN THAT OF SPRING MELT EVENT.

 STABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXST FOR MORE THAN 15 AND THAT OTHERWISE WILL EXST FOR MORE THAN 15 AND THAT OTHERWISE WILL EXST AND THE AREA OF EXPOSED AND THAT OTHERWISE WILL EXST AND THAT OTHERWISE WILL EXST AND THAT OTHERWISE WILL EXTENDED AND THAT OTHERWISE WILL EXST AND THAT OTHER OTHER WILL EXCLUSIVE WITH THAT OTHER WILL EXCLUSIVE WITH THAT OTHER WILL EXCLUSIVE WITH THAT OTHER WILL EXPOSED WITH THAT OTHE

TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR: GOLDEN OAKS LLC. MARCH 2020

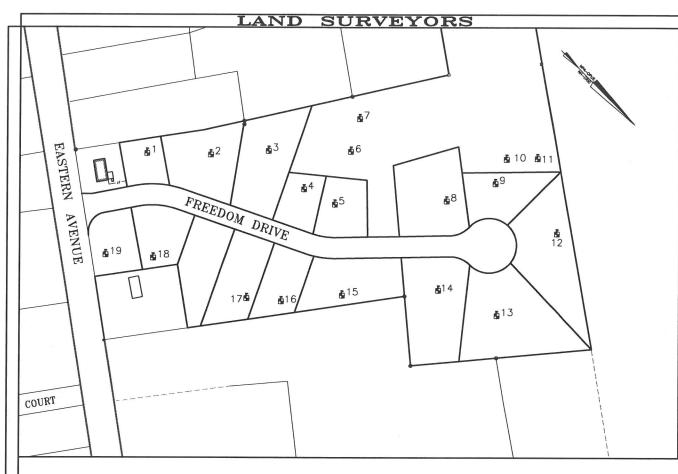
C - 12

2 Continental Blvd., Rochester, N.H. 603-335-3948

PERMANENT EROSION &

SEDIMENTATION CONTROL DETAILS

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NHSMM, VOL. 3)





CIVIL ENGINEERS

THE SOILS ON THE REFERENCED PROPERTY WERE EXAMINED BY DAVID J. ALLAIN CSS#13 ON FEBRUARY 24 AND 28, 2020 TO PROPERLY ADDRESS DRAINGES AND REGULATORY REQUIREMENTS. THE SOIL PROFILES WERE EXAMINED AND RECORDED USING NRCS, SSSNINE AND NHOES CRITERIA AS FOLLOWS:

TP§ 1 (2-24-2020)
0-3' 10YB/2' SANDY LOM, GRANULAR, FRIABLE
3-12' 10YB3/4' LOMM' SAND, GRANULAR, FRIABLE
12-48' 10YB6/2' LOAMY SAND, MASSINE, FIRM IN PLACE FRIABLE IN HAND,
REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHI

TP# 2 (2-24-2020)
0-2: 10783/2 SANDY LOAM, GRANULAR, FRIABLE
2-25: 10785/6 LOAMY SAND, GRANULAR, FRIABLE
25-80: 10786/6 LOAMY SAND, MASSIVE, FIRM IN PLACE FRIABLE IN HAND. REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT AT 25', OBSERVED WATER AT 29', (313) DEERRIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC GROUP B.

TP# 3 (2-24-2020)
0-5' 10787/2 SANDY LOAM, GRANULAR, FRIABLE
5-36' 10785/6 LOAMY SAND, GRANULAR, FRIABLE
5-36-56' 10786/2 LOAMY SAND, MASSNE, FRIABLE. REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT AT 36', NO OBSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 4 (2-24-2020)
0-3' 10782/2 SANDY LOAM, GRANULAR, FRIABLE
3-24' 10786/5 LOAMY SAND, CRANULAR, FRIABLE
24-64' 10786/2 LOAMY SAND, MASSIVE, FIRM IN PLACE FRIABLE IN HAND,
REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT AT 24', OBSERVED WATER AT 48', (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 5 (2-24-2020)
0-3' 10YR2/2 SANDY LOAM, GRANULAR, FRIABLE
3-18' 10YR5/5 LOAMY SAND, GRANULAR, FRIABLE
18-48' 10YR6/2 LOAMY SAND, GRANULAR, FRIABLE
18-48' 10YR6/2 LOAMY SAND, MASSWE, FRIABLE.
REDOX CONCENTRATIONS AND DEPLETIONS.
REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHIPT AT 18, GOSERVED WATER AT 46; (313) DEERFIELD SERIES, MODERATELY WELL DRAINED, BECAUSE THE SHWT IS LESS THAN 24'. THE HOMOLOGIC SOLL GROUP IS D.

TP | 6 (2-24-2020)
0-3* 10783/2 SANDY LOM, GRANULAR, FRIABLE.
3-8* 1078 5/4 LOMY SAND, GRANULAR, FRIABLE.
8- 38* 10785/6 LOMY SAND, GRANULAR, FRIABLE, FEW COBBLE SIZE STONES.
38-58* 1078 6/2 LOMY SANDS, MASSINE, FIRM, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 38*, NO GRSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED, HYDROLOGIC SOIL GROUP B.

TP# 7 (2-24-2020)
0-2 10YR2/2 SANDY LOMA, GRANULAR, FRIABLE.
2-7 10YR 5/4 LOMAY SAND, GRANULAR, FRIABLE.
2-30 10YR5/4 LOMAY SAND, GRANULAR, FRIABLE, FEW COBBLE SIZE STONES.
30-62 10YR 5/3 LOMAY SANDS, MASSNE, GRANULAR, FRIABLE, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHIVT 30', 08SERVED WATER AT 58', (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# B (2-24-2020)
0-6* 1078/4* SANDY LOAM, GRANULAR, FRIABLE.
6-18* 1078-5/4 LOAMY SAND, GRANULAR, FRIABLE.
18-28* 10785/4 LOAMY SAND, GRANULAR, FRIABLE.
18-28* 10785/4 LOAMY SAND, MASSIVE, FRIABLE.
28-60* 1078-6/2 LOAMY SAND, MASSIVE, FRIABLE.
ROTES: SHWT 28*, OBSERVED WATER AT 62*, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL, GROUP B.

179 9 (2-74-7020)
1-0-10" 107874 ANDY LOM, GRANILAR, FRIABLE.
10-13" 1078 7/4 ANDY LOM, GRANILAR, FRIABLE.
10-13" 1078 7/4 ANDY SAND, GRANILAR, FRIABLE.
33" 1078 7/4 CAMY SAND, GRANILAR, FRIABLE.
33" 1078 1078 6/7 LOAMY SAND, GRANILAR, FRIABLE.
NOTES: SHWT 33", NO OBSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 10 (2-24-2020)
0-2* 10YR/2/2 SANDY LOAM, GRANULAR, FRIABLE.
2-8* 10YR 5/4 LOAMY SAND, GRANULAR, FRIABLE.
8- 30* 10YR5/6 LOAMY SAND, GRANULAR, FRIABLE.
8- 30* 10YR5/6 LOAMY SAND, GRANULAR, FRIABLE.
30-58* 10YR 6/2 LOAMY SANDS, MASSINE, FRIM, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 30*, NO OBSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

NUIES: SIMM 24-2020)

0-2' 10782/2 SANDY LOAM, GRANULAR, FRUBLE.
2-16' 1078' 5/6 LOAMY SAND, GRANULAR, FRUBLE.
16-24' 1078'5/3 LOAMY SAND, GRANULAR, FRUBLE.
16-24' 1078'5/3 LOAMY SAND, GRANULAR, FRUBLE.
24-66' 1078' 6/2' LOAMY SANDS, MASSIVE, FIRM, REDOX CONCENTRATIONS AND DEPLETIONS.
NOIES: SHWT 24', NO OBSERVED WAIER, (313) DEERFIELD SERIES, MODERAITELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.



TP# 12 (2-24-2020)
0-2" 101872/ SANDU LOAM, GRANULAR, FRIABLE.
2-4" 1018 5/4 LOAMY SAND, GRANULAR, FRIABLE.
4-3" 1018 5/4 LOAMY SAND, GRANULAR, FRIABLE, FEW COBBLE SIZE STONES.
30-60 1018 6/2 LOAMY SANDS, MASSINE, FIRM IN PLACE FRIABLE IN HAND, REDOX CONCENTRATIONS AND
DEPLETIONS.
NOTES: SHIT 30', OBSERMED WATER AT 58", (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 13 (2-24-2020)
0-3* 10YR2/2 SM0Y LOAM, GRANULAR, FRIABLE,
3-12* 10YR 5/4 LOAMY SAND, GRANULAR, FRIABLE,
12* 123* 10YR5/6 LOAMY SAND, GRANULAR, FRIABLE,
12* 23* 10YR5/6 LOAMY SAND, GRANULAR, FRIABLE,
12* 23* 10YR5/6 LOAMY SAND, GRANULAR, FRIABLE,
12* 23* 10YR5/6 LOAMY SAND, SAND, MASSIVE, FRIM IN PLACE FRIABLE IN HAND, REDOX CONCENTRATIONS AND DEPLETIONS, FEW ROUNDE
BOULDERS.
NOTES: SHM* 23*, NO OBSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED, BECAUSE THE SHWT IS LESS THAN 24*
THE HYDROLOGIC SOIL GROUP IS D.

TF§ 14 (2-24-2020)
0-2' 101782/2 SANDY LOAM, GRANULAR, FRIABLE.
2-12' 10178 3/4 LOAMY SAND, GRANULAR, FRIABLE.
12-23' 101785/6 LOAMY SAND, GRANULAR, FRIABLE.
12-23' 101785/6 LOAMY SAND, GRANULAR, FRIABLE.
12-23' 101785/6 LOAMY SAND, GRANULAR, FRIABLE,
13-63' 10178 6/2 LOAMY SANDS, MASSWE, FIRM IN PLACE FRIABLE IN HAND, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 23, NO OBSERVED WAITER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. BECAUSE THE SHWT IS LESS THAN 2.
THE HYDROLOGY SOUL GROUP IS D.

TP# 15 (2-24-2020)
0-12 10YR5/4 SANDY LOAM, GRANULAR, FRIABLE.
12-28 10YR 5/4 SANDY LOAM, GRANULAR, FRIABLE, FEW COBBLE SIZE STONES
28-85 10YR 6/2 LOAMY SANDS, MASSWE, FIRM IN PLACE FRIABLE IN HAND, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 28", OBSERVED WATER AT 32", (313) DEERPIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 16 (2-24-2020)
0-2 10782/2 SANDY LOAM, GRANULAR, FRIABLE.
2-9 1078 5/4 LOAMY SAND, GRANULAR, FRIABLE.
9- 26 10785/4 LOAMY SAND, GRANULAR, FRIABLE.
9- 26 10785/6 LOAMY SAND, MASSINE, FRIABLE.
26-62 1078 6/2 LOAMY SANDS, MASSINE, FRIABLE.
NOTES: SHWT 26', OBSERVED WATER AT 46' , (313) DEERFIELD SERIES, MODERATELY WELL DRAINED, HYDROLOGIC SOIL GROUP B.

TP# 17 (2-24-2020)
0-2* 10787/2 SANDY LOM, GRANULAR, FRIABLE.
3-8* 1078 7/4 LOMAY SAND, GRANULAR, FRIABLE.
3-8* 1078 7/4 LOMAY SAND, GRANULAR, FRIABLE.
8- 28* 10785/6 LOMAY SAND, GRANULAR, FRIABLE.
28-63* 1078 7/2 LOMAY SANDS, MASSINE, FIRM IN PLACE FRIABLE IN HAND, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHITT 26. OBSERVED WHITER AT 50', (3.13) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 18 (2-28-2020)
0-2: TOYRZ/2 SANDY LOAM, GRANULAR, FRIABLE.
2-8: 1078 5/4 LOAMY SAND, GRANULAR, FRIABLE.
8-25: 10785/6 LOAMY SAND, GRANULAR, FRIABLE, FEW COBBLE SIZE STONES,
25-48: 1078 6/2 LOAMY SANDS, MASSINE, FRIBBLE, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 25', NO OBSERVED WATER, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED. HYDROLOGIC SOIL GROUP B.

TP# 19 (2-28-2020)
0-2 10YR2/2 SNOY LOAM, GRANULAR, FRABLE.
2-8-10YR 5/4 LOAMY SAND, GRANULAR, FRABLE.
8- 25: 10YR5/4 LOAMY SAND, GRANULAR, FRABLE.
8- 25: 10YR5/6 LOAMY SAND, GRANULAR, FRABLE, MANY COBBLE SIZE STONES.
25-50: 10YR 6/2 LOAMY SAND, MASSNE, FRABLE, REDOX CONCENTRATIONS AND DEPLETIONS.
NOTES: SHWT 25: OBSERVED WATER ENTERING RAPIDLY FROM DOWN HILL SIDE, (313) DEERFIELD SERIES, MODERATELY WELL DRAINED HYDROLOGIC SOLI GROUP B.



TAX MAP 110 - LOT 10-00, LOTS 10-2 THRU 10-18 OWNER OF RECORD: ARTHUR TAYLOR, JR. 479 TOVAR DRIVE SAN JOSE, CA 95123-4948 BK 3434, PG 903

TEST PIT DATA TAX MAP 110, LOT 10-00 & LOTS 10-2 THRU 10-18 FREEDOM DRIVE ROCHESTER, NH PREPARED FOR:

GOLDEN OAKS DEVELOPMENT, LLC.

MARCH 2020 GRAPHIC SCALE

50 100 (IN FEET) 1 INCH = 100 FEET

C-13

FILE NO. 166 PLAN NO.C-3043 DWG. NO. 19138/S-1 CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY OLESTIONS WITH THE DLAN SET. IF THERE ARE ANY OLESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES INC (603)-335-3948

SITE

LOCUS