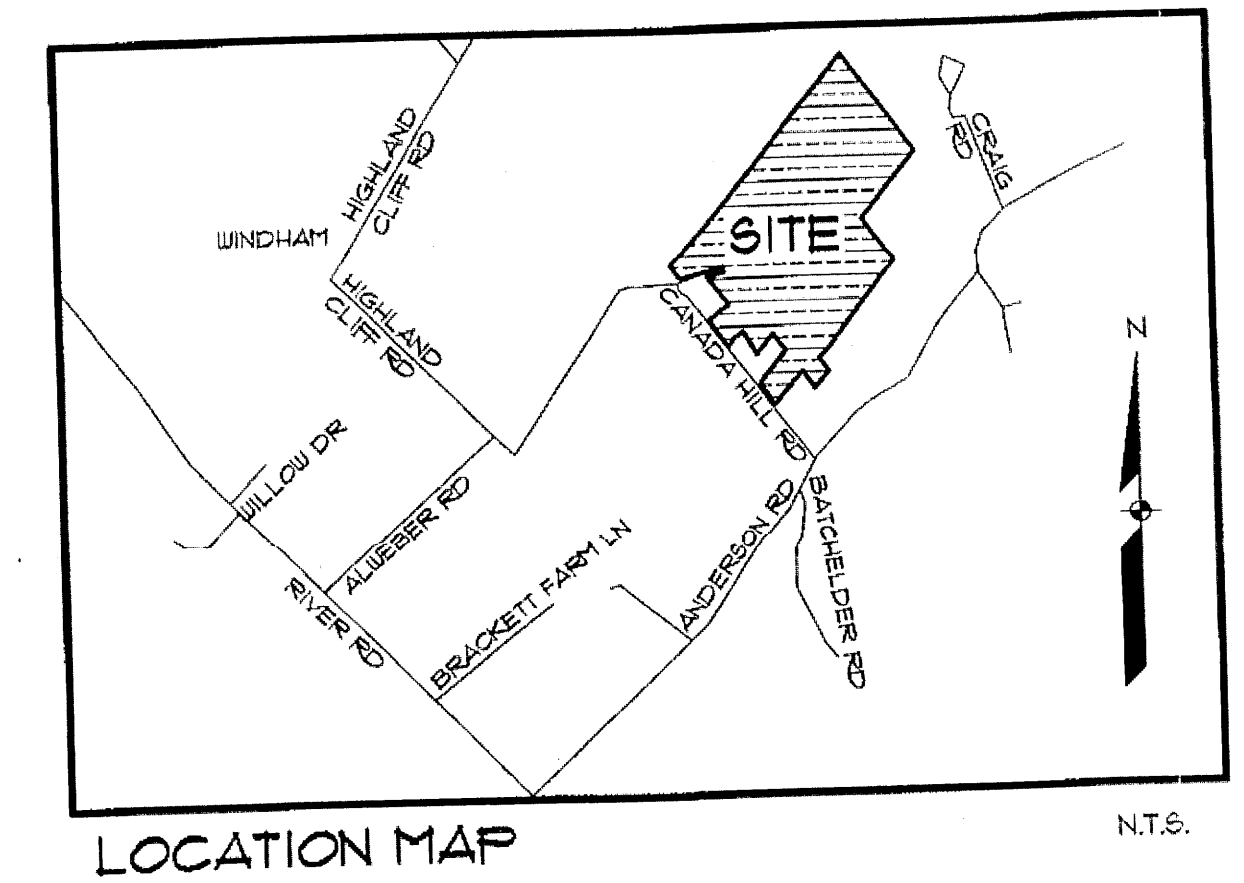


CANADA HILL SUBDIVISION

A 14-LOT RESIDENTIAL SUBDIVISION

CANADA HILL ROAD/HIGHLAND CLIFF ROAD

WINDHAM, MAINE



APPLICANT:
 BLESSED BY FOUR, LLC
 ONE PERCY HAWKES ROAD
 WINDHAM, MAINE 04062

ENGINEER/SURVEYOR:

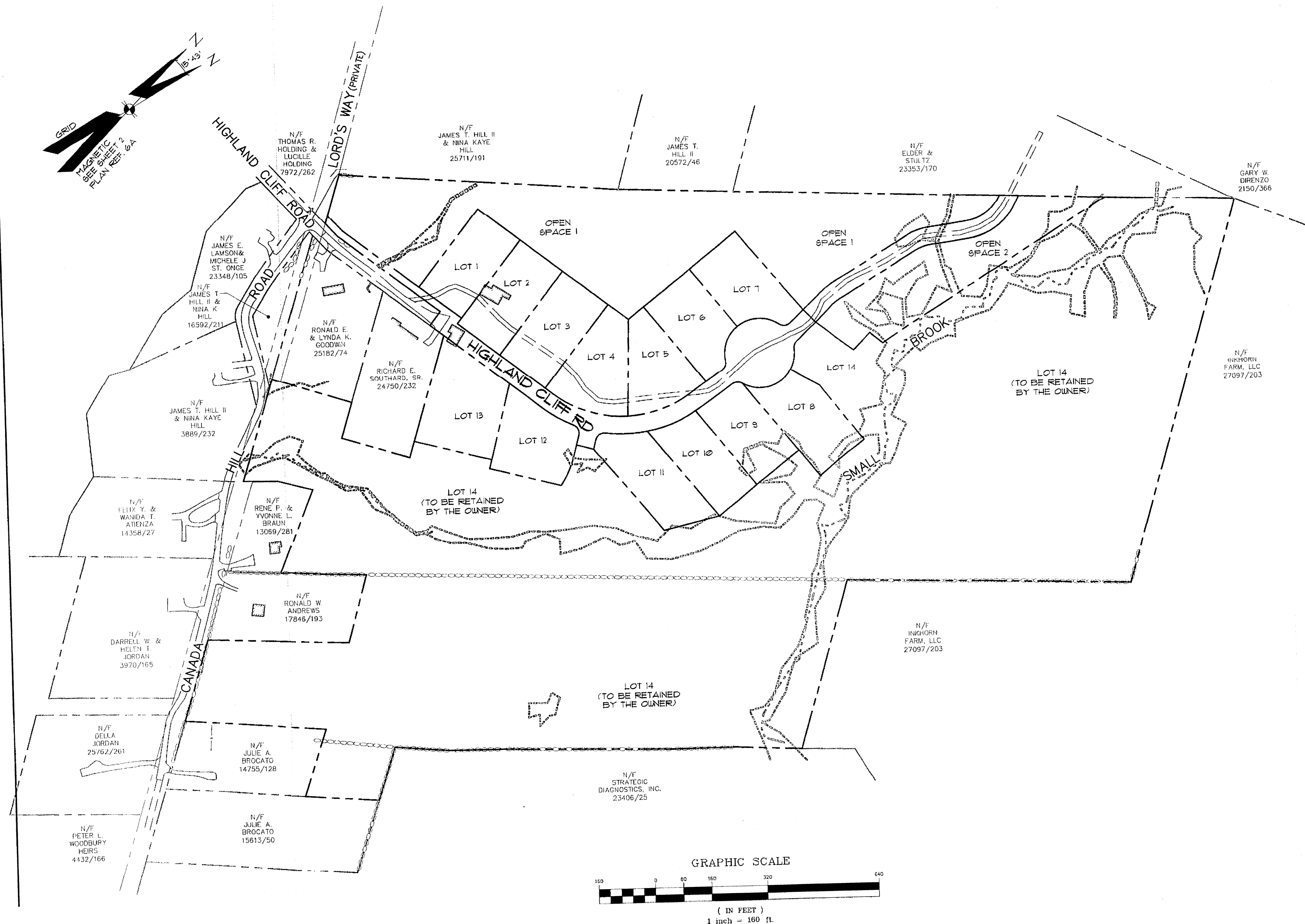
Sebago Technics

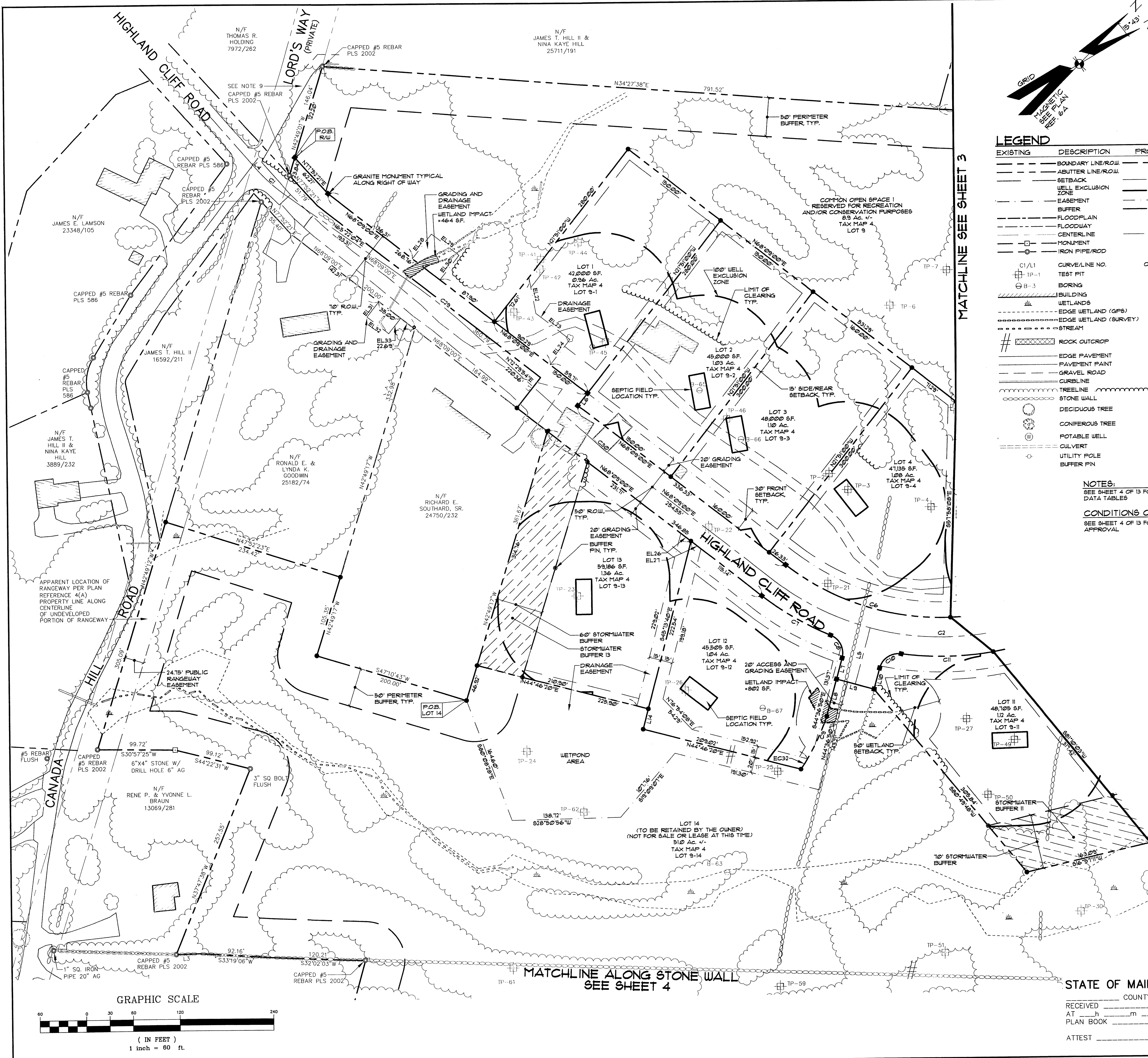
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 Westbrook, Me 04098-1339
 Tel (207) 856-0277

DRAWING INDEX:

SHT. NO.	SHEET NAME
1	COVER SHEET
2	SUBDIVISION PLAN
3	SUBDIVISION PLAN
4	SUBDIVISION PLAN
5	CLASS 'A' HIGH INTENSITY SOIL SURVEY
6	PLAN & PROFILE - 1
7	PLAN & PROFILE - 2
8	LANDSCAPING PLAN
9	DETAILS
10	DETAILS
11	DETAILS
12	DETAILS
13	DETAILS

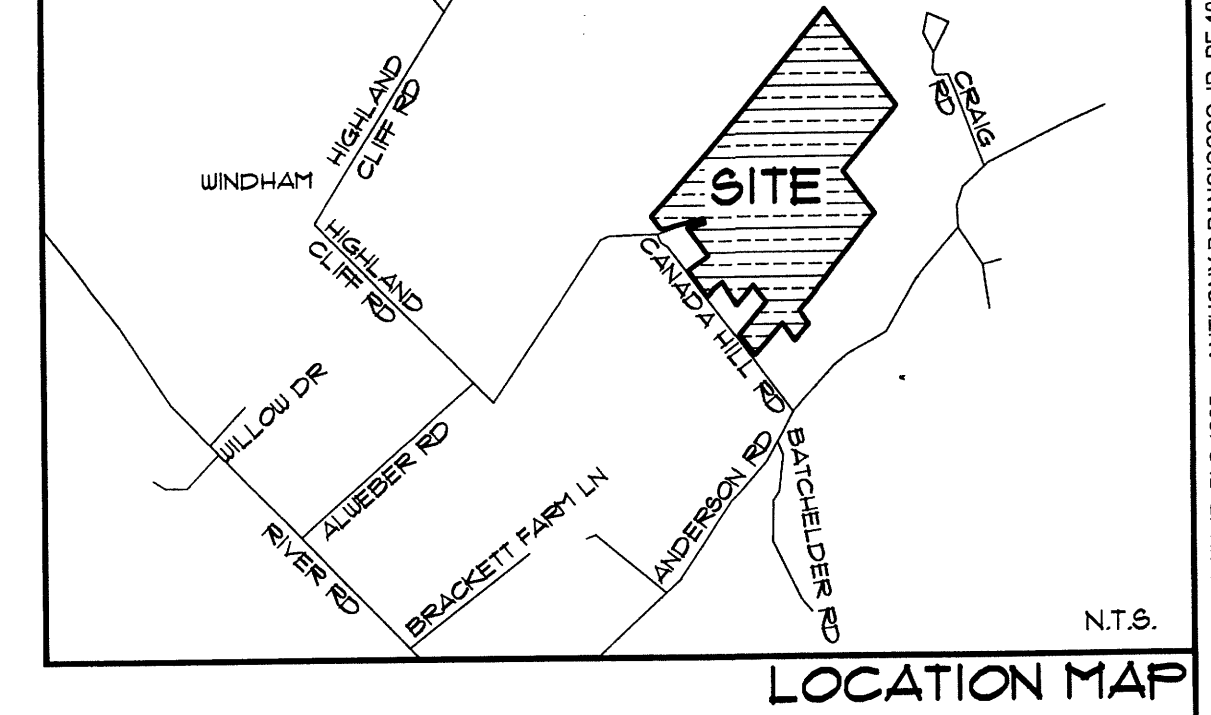




LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINE/ROW	---
---	SETBACK	---
---	WELL EXCLUSION ZONE	---
---	EASEMENT	---
---	FLOODPLAIN	---
---	FLOODWAY	---
---	CENTERLINE	---
---	MONUMENT	---
---	IRON PIPE/ROD	---
---	WETLANDS	---
---	EDGE WETLAND (GPS)	---
---	EDGE WETLAND (SURVEY)	---
---	STREAM	---
---	ROCK OUTCROP	---
---	EDGE PAVEMENT	---
---	PAVEMENT PAINT	---
---	GRAVEL ROAD	---
---	CURBLINE	---
---	TREELINE	---
---	STONE WALL	---
---	DECIDUOUS TREE	---
---	CONIFEROUS TREE	---
---	POTABLE WELL	---
---	CULVERT	---
---	UTILITY POLE	---
---	BUFFER PIN	---

NOTES:
SEE SHEET 4 OF 13 FOR LINE AND CURVE DATA TABLES
CONDITIONS OF APPROVAL
SEE SHEET 4 OF 13 FOR CONDITIONS OF APPROVAL



- GENERAL NOTES:**
- THE RECORD OWNER OF THE PARCEL IS CHASE CUSTOM HOMES AND FINANCE, INC. BY DEED DATED MAY 25, 2011 AND RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 28133 PAGE 118.
 - THE PROPERTY IS SHOWN AS LOT 9 ON THE TOWN OF WINDHAM TAX MAP 4 AND IS LOCATED IN THE FARM ZONE.
 - SPACE AND BULK CRITERIA FOR THE FARM ZONE:
MIN. LOT SIZE: 80,000 SF. CLUSTER SUBDIVISION 40,000-50,000 SF.
MIN. STREET FRONTAGE: 150 FT.
MIN. FRONT YARD: 40 FT.
MIN. SIDE YARD: 15 FT.
MIN. REAR YARD: 40 FT.
MAX. BUILDING HEIGHT: 35 FT.
MAX. BUILDING COVERAGE: 25%.
 - TOTAL AREA OF PARCEL: 19.07 ACRES.
 - BOUNDARY INFORMATION SHOWN HEREON IS BASED SOLELY UPON THE SURVEY REFERENCED IN NOTE 6A. THE SURVEYOR'S SEAL HEREON IS TO INDICATE THAT THE LOT COMPUTATIONS AND PLANS WERE PREPARED BY SEBAGO TECHNIQS, INC.
 - PLAN REFERENCES:
A. STANDARD BOUNDARY SURVEY OF LAND OF RICHARD E. SOUTHWARD, SR. ET AL. BY LAND SERVICES, INC. PROJECT NO. 00193, NOVEMBER, 2000.
B. PLAN OF PROPOSED CONVEYANCE TO JAMES T. HILL, ET AL. BY SURVEY, INC. DATED JUNE, 2004 PROJECT NO. 04-010.
C. PLAN OF LAND FOR ATLANTIC ANTIDOTES, BY OWEN HASKELL, INC. DATED JULY 23, 1974 AND RECORDED IN CORD PLAN BOOK 101, PAGE 40.
D. PROPRIETORS MAP-TOWN OF WINDHAM AS REPRODUCED BY GEORGE SWASEY HALEY, DATED 12-29-95 AND RECORDED IN CORD PLAN BOOK 24, PAGE 13.
E. STANDARD BOUNDARY SURVEY FOR MAURICE AND GRATA ORBETON, BY ROBERT J. ROY, DATED FEBRUARY 28, 1986 AND RECORDED IN CORD PLAN BOOK 191, PAGE 56.
F. BOUNDARY SURVEY FOR WOODS FARM BY SEBAGO TECHNIQS, INC. PROJECT NO. 04231, DATED AUGUST 8, 2004.
 - WETLAND DELINEATION SHOWN HEREON WAS PERFORMED BY SEBAGO TECHNIQS, INC. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1981 WETLANDS DELINEATION MANUAL, AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. WETLAND FLAGS WITHIN THE DEVELOPED AREA WERE SURVEY LOCATED.
 - THE BEARINGS SHOWN HEREON ARE BASED UPON THE MAINE STATE PLANE COORDINATE GRID, WEST ZONE 1802 ON NAD83.
 - PROPERTY LINE INDICATED ALONG THE NORTHEASTERLY SIDE OF LORD'S WAY IS AS PER DEED BOOK 18845, PAGE 92 CORD. DEED SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.
 - ACCESS/EASEMENT RIGHTS MAY EXIST OVER THE WOODS ROADS SHOWN ON THIS PLAN. SEE SHEET 3 OF 13.
 - EACH LOT WITHIN CANADA HILL SUBDIVISION SHALL BE SERVICED BY SUBSURFACE WASTEWATER DISPOSAL SYSTEMS. UNDERGROUND ELECTRIC, TELEPHONE AND CABLE WATER SHALL BE PROVIDED BY PRIVATE INDIVIDUAL WELLS FOR EACH LOT.
 - EACH RESIDENTIAL STRUCTURE SHALL HAVE A SPRINKLER SYSTEM INSTALLED. THE SPRINKLER SYSTEM SHALL MEET THE REQUIREMENTS OF THE TOWN OF WINDHAM FIRE CHIEF.
 - OPEN SPACE REQUIRED = 10.16 AC +/-
OPEN SPACE PROVIDED = 11.93 AC +/-
 - CURB CUTS IN NON-CURBED SECTIONS OF THE ROAD SHALL BE DEFINED AND REVIEWED WITH THE TOWN OF WINDHAM PRIOR TO THE CONSTRUCTION OF BASE COURSE PAVING AND CURB CUTS WHERE THERE ARE CURB AND SIDEWALKS SHALL BE DEFINED AND REVIEWED WITH THE TOWN OF WINDHAM PRIOR TO THE CONSTRUCTION OF THE CURBS AND SIDEWALKS.
 - BLESSED BY FOUR, LLC SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL STORMWATER MANAGEMENT AND TREATMENT BMP'S UNTIL SUCH TIME AS THESE RESPONSIBILITIES ARE TRANSFERRED TO THE CANADA HILL SUBDIVISION HOMEOWNERS ASSOCIATION. THE TOWN OF WINDHAM WILL NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE OF STORMWATER MANAGEMENT BMP'S.
 - PER MDP PERMITTING REQUIREMENTS THIS PROJECT INCLUDES 15 LOTS ON 28.02 ACRES. THIRTEEN DEVELOPABLE LOTS AND TWO OPEN SPACES LOTS LOT 14, AS INDICATED ON THE PLANS, IS TO BE RETAINED BY THE OWNER AND IS NOT INTENDED FOR SALE OR LEASE AT THIS TIME. THE WETPOND EASEMENT AREA, LOCATED ON LOT 14, ENCOMPASSES 0.36 ACRES. THIS AREA IS INCLUDED IN THE 29.02 ACRE TOTAL.
- GENERAL NOTES CONTINUED ON SHEET 4 OF 13---

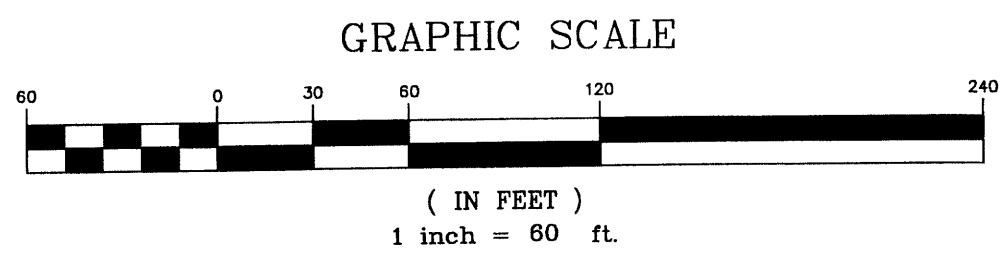
NET RESIDENTIAL AREA CALCULATION

TOTAL AREA OF PARCEL	19.07 AC.
- TOTAL AREA USED FOR RIGHT-OF-WAY	3.22 AC.
- PORTIONS OF PARCEL WITH SLOPES > 25%	6.93 AC.
- PORTIONS OF PARCEL WITHIN 100-YR FLOODPLAIN (NOT INCLUDING SLOPES > 25%)	9.51 AC.
- PORTIONS OF PARCEL WITHIN RESOURCE PROTECTION DISTRICT (NOT INCLUDING WETLANDS AND SLOPES > 25%)	13.3 AC.
- PORTIONS OF PARCEL UNSUITABLE FOR DEVELOPMENT DUE TO DRAINAGE OR SUBSOIL CONDITIONS	0 AC.
- PORTIONS OF PARCEL WITH WATER TABLE AT OR NEAR SURFACE (WETLANDS OUTSIDE 100-YR FLOODPLAIN AND OUTSIDE SLOPES > 25%)	2.81 AC.
- PORTIONS OF PARCEL WITH SOILS CONTAINING SEBAGO MUCKY PEAT	0 AC.
- PORTIONS OF THE PARCEL COVERED BY SURFACE WATER BODIES	0 AC.
NET RESIDENTIAL AREA (NRA)	55.41 AC.
TOTAL NUMBER OF ALLOWABLE LOTS = NRA / (55.41 AC / 100,000 SF/LOT)	55.41 AC. x 43,560 SF/AC. / 100,000 SF/LOT = 30.11 (30 LOTS ALLOWED)

APPROVAL:
TOWN OF WINDHAM
PLANNING BOARD

Approved June 25, 2012
DATE
CHAIRPERSON
RECORD OWNER:
SEE NOTE 1
FOR:
BLESSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINDHAM MAINE 04062

STATE OF MAINE
COUNTY SS REGISTRY OF DEEDS
RECEIVED _____ 20____
AT _____h _____m _____M. AND RECORDED IN
PLAN BOOK _____ PAGE _____
ATTEST _____ REGISTRAR



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PROJECT NO. 05304
DESIGN: CHD
URHAPP: JRM/AL

FINAL MAJOR SUBDIVISION PLAN
OF:
CANADA HILL SUBDIVISION
CANADA HILL ROAD/HIGHLAND CLIFF ROAD
WINDHAM, MAINE

SHEET 2 OF 13

RECORD OWNER:
SEE NOTE 1
FOR:
BLESSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINDHAM MAINE 04062

DATE
11-14-11

SCALE
1"=60'

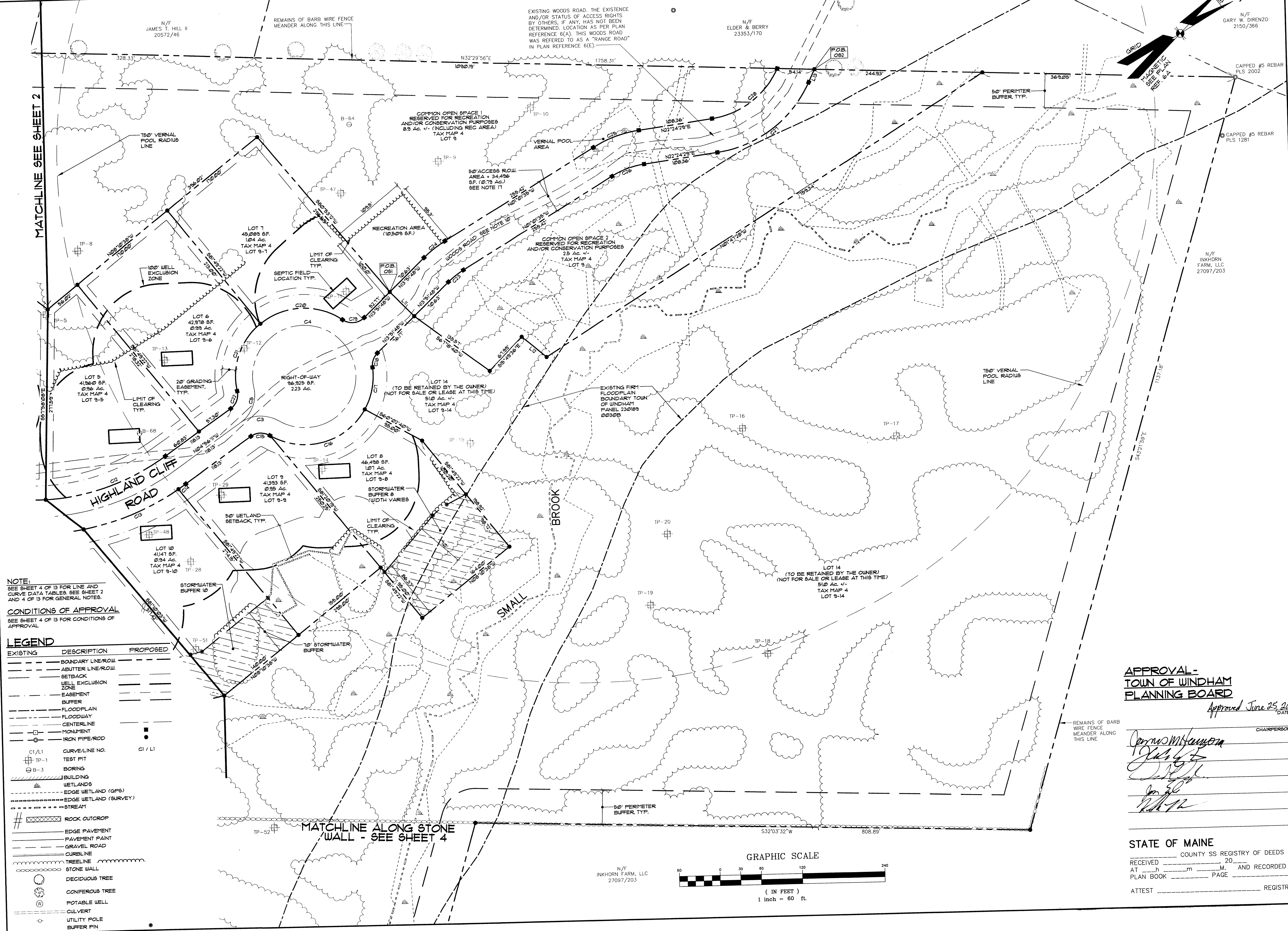
DATE
11-14-11

SCALE
1"=60'

SHEET 2 OF 13

05304-SEB.dwg, TAB: SB1

MATCHLINE SEE SHEET 2

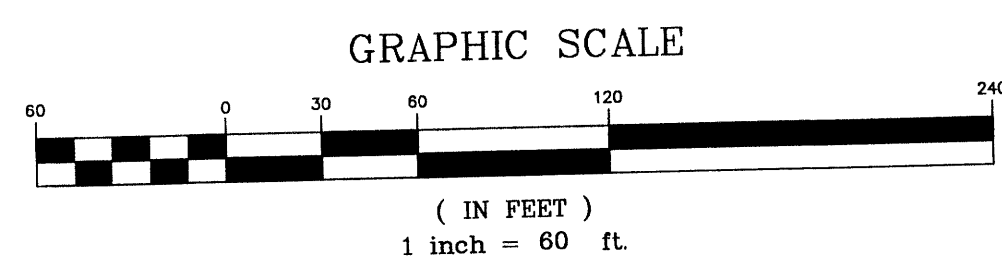


NOTE:
SEE SHEET 4 OF 13 FOR LINE AND
CURVE DATA TABLES, SEE SHEET 2
AND 4 OF 13 FOR GENERAL NOTES.

CONDITIONS OF APPROVAL
SEE SHEET 4 OF 13 FOR CONDITIONS OF
APPROVAL

LEGEND	
EXISTING	PROPOSED
--- BOUNDARY LINE/ROW	---
--- ABUTTER LINE/ROW	---
--- SETBACK	---
--- WELL EXCLUSION ZONE	---
--- EASEMENT	---
--- BUFFER	---
--- FLOODPLAIN	---
--- FLOODWAY	---
--- CENTERLINE	---
--- MONUMENT	---
--- IRON PIPE/ROD	---
CI/L1	CI / LI
TP-1	TEST PIT
B-3	BORING
■	BUILDING
■	WETLANDS
---	EDGE WETLAND (GPS)
---	EDGE WETLAND (SURVEY)
---	STREAM
■	ROCK OUTCROP
---	EDGE PAVEMENT
---	PAVEMENT PAINT
---	GRAVEL ROAD
---	CURBLINE
---	TREELINE
---	STONE WALL
○	DECIDUOUS TREE
○	CONIFEROUS TREE
○	POTABLE WELL
○	CULVERT
○	UTILITY POLE
○	BUFFER PIN

MATCHLINE ALONG STONE WALL - SEE SHEET 4



APPROVAL -
TOWN OF WINDHAM
PLANNING BOARD
Approved June 25, 2013

CHAIRPERSON
RECORD OWNER:
SEE NOTE 1 ON
SHEET 2 OF 13

STATE OF MAINE
RECEIVED _____ COUNTY SS REGISTRY OF DEEDS
AT _____ h _____ m _____ AND RECORDED IN
PLAN BOOK _____ PAGE _____
ATTEST _____ REGISTRAR

05304SB.dwg, TAB:SB2

05304

RECEIVED PER CONDITIONS OF APPROVAL

APP	05-26-12	RECEIVED PER CONDITIONS OF APPROVAL
G	05-23-12	SUBMITTED FOR FINAL SUBDIVISION PLAN REVIEW
E	04-11-12	RECEIVED PER MDEP REVIEW COMMENTS
F	04-06-12	RECEIVED PER MDEP REVIEW COMMENTS
D	02-16-12	SUBMITTED FOR MDEP STORMWATER PERMIT REVIEW
C	01-24-11	RECEIVED PER MDEP REVIEW COMMENTS
B	12-27-11	RECEIVED PER MDEP REVIEW COMMENTS
REV	DATE	STATUS

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNIQUES, INC. ANY ALTERATIONS, AUTOMATICALLY OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNIQUES, INC.

PROJECT NO. 05304

DESIGN: JH/APP APP/CLB JH/APP

CHKD: JH/APP

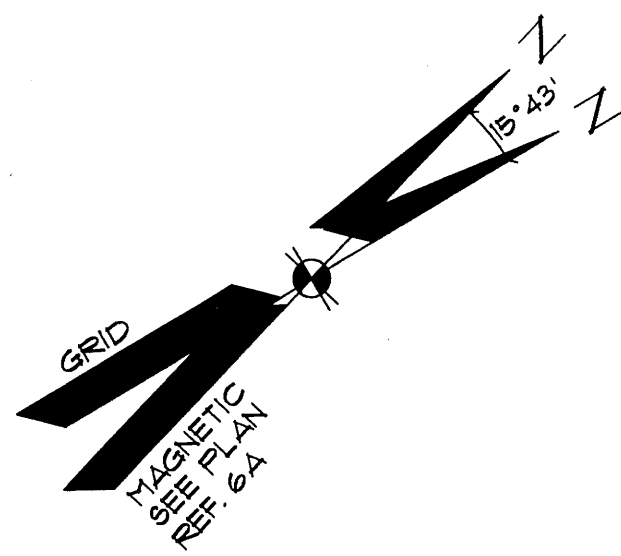
DRAWN: JH/APP

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www.sebagotech.com

FINAL MAJOR SUBDIVISION PLAN
OF:
CANADA HILL SUBDIVISION
CANADA HILL ROAD / HIGHLAND CLIFF ROAD
WINDHAM, MAINE
FOR:
BLESSSED BY FOUR, LLC
ONE BERRY HAWKS ROAD
WINDHAM MAINE 04062

DATE: 11-14-11
SCALE: 1"=60'

SHEET 3 OF 13



NOTE:
SEE SHEETS 2 FOR ADDITIONAL
GENERAL NOTES.

PROPERTY LINE DATA		
LINE	DIRECTION	DISTANCE
L1	N21°51'00"W	49.50'
L2	S68°09'00"W	49.20'
L3	S28°30'40"W	30.07'

PROPERTY LINE DATA		
LINE	DIRECTION	DISTANCE
L6	N21°51'00"W	20.00'
L7	N44°36'50"W	78.14'
L8	N44°36'50"W	49.02'
L9	N45°23'10"E	50.00'
L10	N44°36'50"W	50.00'
L11	S16°09'12"W	50.00'
L12	N10°31'31"E	46.84'
L13	S34°51'05"E	20.16'
L14	S45°13'40"E	21.00'

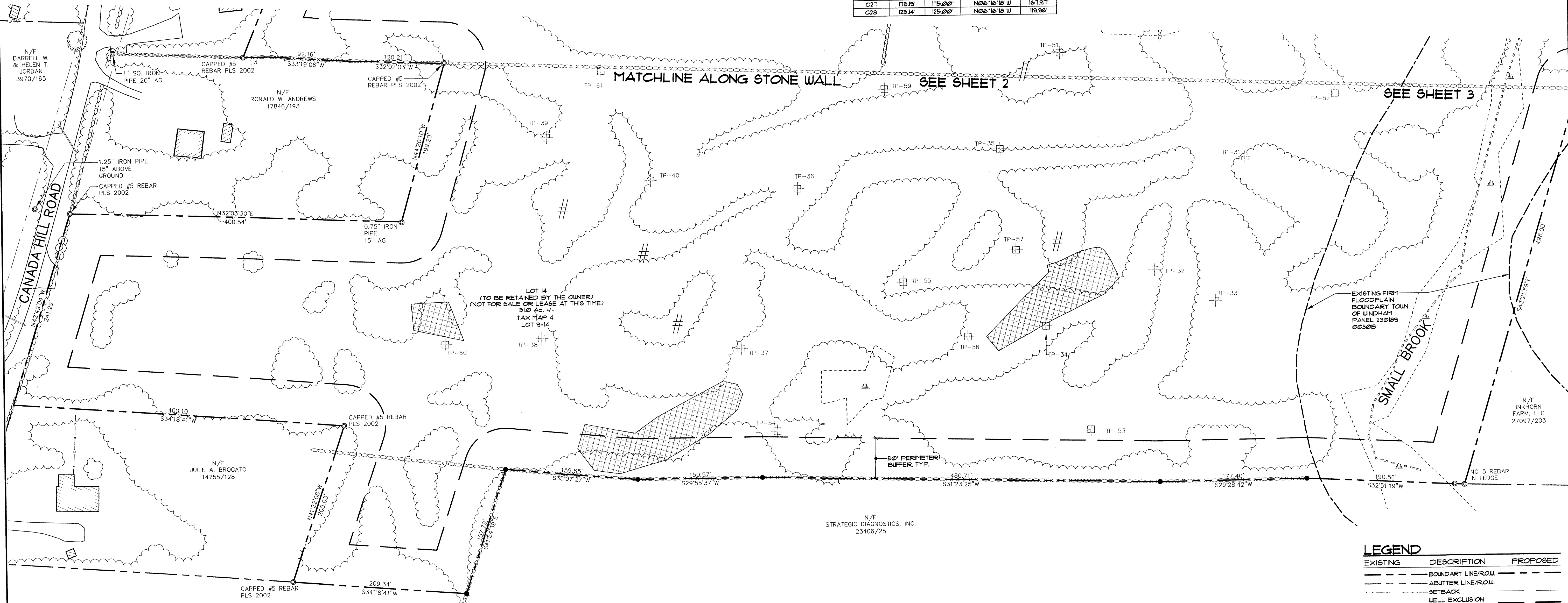
CENTERLINE DATA		
LINE	DIRECTION	DISTANCE
L4	N18°58'18"E	130'
L5	N44°36'50"W	15.00'

CENTERLINE CURVE DATA				
CURVE	LENGTH	RADIUS	CRD. BEARING	CRD. DIST.
C1	41.49'	200.00'	N12°10'11"E	41.38'
C2	446.46'	350.00'	N31°36'24"E	416.80'
C3	51.96'	50.00'	S28°16'28"W	54.11'
C4	409.51'	15.00'	S85°03'49"W	60.00'
C5	51.96'	50.00'	N38°08'51"W	54.11'
C6	93.94'	150.00'	S68°58'59"W	93.28'
C7	31.95'	50.00'	N10°19'21"E	15.11'

PROPERTY LINE CURVE DATA				
CURVE	LENGTH	RADIUS	CRD. BEARING	CRD. DIST.
C6	226.48'	315.00'	N48°11'12"E	221.92'
C7	101.93'	315.00'	N60°21'30"E	101.68'
C8	36.14'	25.00'	N86°01'24"W	33.01'
C9	16.16'	215.00'	N33°32'05"W	15.92'
C10	36.14'	25.00'	S03°12'15"E	33.01'
C11	18.39'	315.00'	N29°09'39"E	17.92'
C12	186.29'	315.00'	N11°38'31"E	185.48'
C13	15.00'	315.00'	N08°34'46"E	15.00'
C14	12.95'	315.00'	N03°56'49"W	12.95'
C15	28.98'	25.00'	S28°16'28"W	21.39'
C16	159.59'	100.00'	N15°45'54"E	143.19'
C17	63.61'	100.00'	N48°11'42"W	61.60'
C18	22.54'	25.00'	S40°08'56"E	22.14'
C19	34.43'	25.00'	N33°08'44"E	31.18'
C20	121.93'	100.00'	S28°23'15"W	119.43'
C21	110.29'	100.00'	S39°49'08"W	104.62'
C22	28.98'	25.00'	N38°08'51"W	21.39'
C23	28.01'	125.00'	S01°26'42"E	21.95'
C24	39.21'	115.00'	S01°26'42"E	39.13'
C25	11.98'	115.00'	S10°41'21"W	11.08'
C26	91.93'	125.00'	S10°41'21"W	90.11'
C27	175.19'	115.00'	N06°16'18"W	167.91'
C28	125.14'	125.00'	N06°16'18"W	119.98'

EASEMENT LINE DATA		
LINE	DIRECTION	DISTANCE
EL22	N10°21'21"W	41.28'
EL23	N68°09'00"E	54.82'
EL24	S21°51'00"E	41.15'
EL26	N68°09'00"E	16.34'
EL27	N68°09'00"E	16.34'
EL28	S21°51'00"E	40.00'
EL29	S68°09'00"W	44.55'
EL30	N21°51'00"W	40.00'
EL31	N21°51'00"W	25.00'
EL32	S68°09'00"W	35.00'
EL33	S21°51'00"E	25.00'

EASEMENT LINE CURVE DATA			
CURVE	LENGTH	RADIUS	CRD. BEARING
EC32	15.11'	215.00'	N21°14'31"W



GENERAL NOTES:

17. BY ACCEPTANCE OF THIS SUBDIVISION PLAN AN EASEMENT APPURTENANT IS PROVIDED BEGINNING AT THE TERMINUS OF THE PUBLIC ROAD NAMED HIGHLAND CLIFF, RUNNING ALONG THE ENTIRE LENGTH OF THE SUBDIVISION ROAD ALSO NAMED HIGHLAND CLIFF ROAD, AND EXTENDING THROUGH THE 50' ACCESS RIGHT OF WAY TO THE NORTHERN LIMIT OF THE SUBDIVISION, THE SERVIENT TENEMENT AND ITS ASSOCIATED ACCESS ROAD, CUL-DE-SAC, AND 50' ACCESS RIGHT OF WAY ARE DEPICTED ON THE SUBDIVISION PLANS. THE SERVIENT TENEMENT CONSIST OF THE ENTIRETY OF THE NON-PUBLIC ACCESS ROAD (HIGHLAND CLIFF ROAD) AND THE 50' ACCESS RIGHT OF WAY OF THE SUBDIVISION (CANADA HILL SUBDIVISION) AND TERMINATES AT THE NORTHERN PROPERTY BOUNDARY OF THE SUBDIVISION (CANADA HILL SUBDIVISION). THE EASEMENT IS FOR THE PURPOSE OF ALLOWING INGRESS AND EGRESS TO "CANADA HILL" BY SPECIFIED LAND OWNERS, AND INCLUDES BUT IS NOT LIMITED TO ACCESS FOR PURPOSES OF LOGGING BY OR ON BEHALF OF SPECIFIED LAND OWNERS, AS NEEDED TO PRESERVE THE TAX STATUS OF LAND ENROLLED IN THE MAINE TREE GROWTH TAX LAU PROGRAM, OR MOTOR VEHICLE FOR ACCESS TO "CANADA HILL." THE EASEMENT IS APPURTENANT TO THE BELOW NAMED PARTIES AND TO THEIR SUCCESSORS IN INTEREST. THE EASEMENT IS EXCLUSIVE TO THE BELOW NAMED PARTIES AND TO THEIR SUCCESSORS IN INTEREST.

OWNER	TAX MAP	LOT
JAMES T. HILL II	4	4
NINA KATE HILL	4	5
JOHN PHINNEY	4	6
ANNE ELDER BERRY	4	7
ANDREA ELDER STULTZ	4	8
THOMAS J. FORTIER	4	9
DOUGLAS R. FORTIER	4	10
GARY W. DIBENZO	4	11
ANN MARIE DIBENZO	4	12
INCHORN FARM, LLC	4	13
JAMES T. HILL II	4	14
RONALD WINSHIP SR.	1	15
LINDA WINSHIP	1	16
GARY E. & BARBARA WINSHIP	1	17

GENERAL NOTES:

18. APPROVAL BY THE PLANNING BOARD OF THIS SUBDIVISION PLAN SHALL NOT BE DEEMED TO CONSTITUTE OR BE EVIDENCE OF ANY ACCEPTANCE BY THE TOWN OF WINDHAM OF ANY STREET, EASEMENT, OPEN SPACE, PARKS, PLAYGROUNDS, OR OTHER RECREATION AREAS SHOWN ON THIS PLAN.

19. ALL ROADS IN THIS SUBDIVISION SHALL REMAIN PRIVATE ROADS TO BE MAINTAINED BY THE DEVELOPER, LOT OWNERS, HOME ASSOCIATION, OR ROAD ASSOCIATION, UNTIL SUCH TIME AS THE ROADS MAY BE OFFERED FOR ACCEPTANCE BY THE TOWN COUNCIL, AS TOWN STREETS AFTER A DETERMINATION BY THE TOWN THAT ALL APPLICABLE STREET CONSTRUCTION STANDARDS HAVE BEEN MET.

20. CLEARING OF TREES IN AREAS WHERE TREE COVER IS DEPICTED ON THE PLAN IS PROHIBITED FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF PLANNING BOARD APPROVAL.

21. MANDATORY BUFFERS FOR STORMWATER OR OTHER REASONS DEPICTED ON THE PLAN SHALL NOT BE CLEARED OF VEGETATION UNLESS THE PLANNING BOARD GRANTS AN AMENDMENT TO THE SUBDIVISION OR FOR MAINTENANCE THAT DOES NOT ALTER THE PURPOSE FOR WHICH THE BUFFER WAS REQUIRED.

22. FUTURE DIVISIONS OF THE LOTS SHALL CONSTITUTE A REVISION TO THE PLAN AND SHALL REQUIRE APPROVAL FROM THE PLANNING BOARD, SUBJECT TO THE CRITERIA OF THE SUBDIVISION STATUTE, THE STANDARDS OF THE TOWN ORDINANCES, AND CONDITIONS PLACED ON THE ORIGINAL APPROVAL.

23. THE PROJECT SHALL BE DEVELOPED IN ACCORDANCE WITH THE APPROVED MDEP STORMWATER PERMIT # L-25611-N-A-N, DATED MAY 11, 2012.

24. COMMON LAND OR OPEN SPACE SHALL NOT BE DIVIDED INTO LOTS AND NO DUELLING UNITS SHALL BE ALLOWED IN THESE AREAS. CONSTRUCTION AND IMPROVEMENTS IN THIS AREA SHALL BE LIMITED TO STRUCTURES AND BUILDINGS ACCESSORY TO NON-COMMERCIAL RECREATIONAL OR CONSERVATION USES AND THE INSTALLATION OF UNDERGROUND UTILITIES.

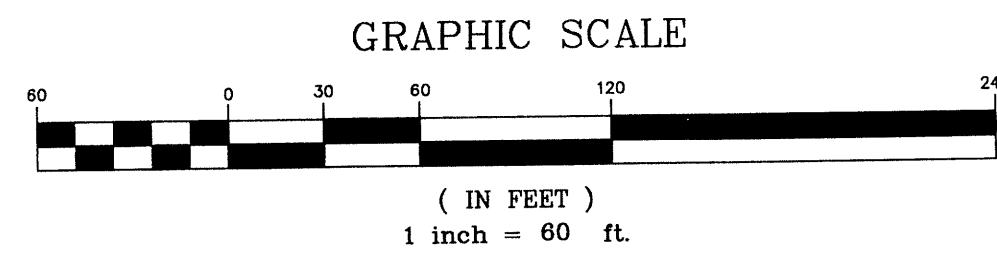
25. A VERNAL POOL WAS MAPPED BY SEBAGO TECHNIQS, INC. IN THE SPRING OF 2012. THE 150' VERNAL POOL RADIUS IS IDENTIFIED ON SHEET 3. THE TOTAL DEVELOPED AREA WITHIN THE 150' RADIUS IS 82%.

CONDITIONS OF APPROVAL

1. APPROVAL IS DEPENDENT UPON, AND LIMITED TO, THE PROPOSALS AND PLANS CONTAINED IN THE APPLICATION DATED JULY 2011, AS AMENDED, AND SUPPORTING DOCUMENTS AND ORAL REPRESENTATIONS SUBMITTED AND AFFIRMED BY THE APPLICANT, AND CONDITIONS IF ANY, IMPOSED BY THE PLANNING BOARD, AND ANY VARIATION FROM SUCH PLANS, PROPOSALS AND SUPPORTING DOCUMENTS AND REPRESENTATIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE PLANNING BOARD OR THE TOWN PLANNER IN ACCORDANCE WITH SECTION 919 OF THE SUBDIVISION ORDINANCE.

2. THE CONTRACTOR MUST PROVIDE EVIDENCE OF FLOW RATES (GALLONS/MINUTE) AND THE RESULTS OF A WATER QUALITY TEST PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR EACH HOUSE IN THE SUBDIVISION.

3. PRIOR TO THE ISSUANCE OF BUILDING PERMITS FOR LOTS 9, 10, 11, AND 13, THE APPLICANT MUST SUBMIT A COPY OF THE RECORDED STORMWATER BUFFER DEED RESTRICTIONS, INCLUDING THE FLOT PLANS.



APPROVAL - TOWN OF WINDHAM PLANNING BOARD

DATE _____ CHAIRPERSON _____

James M. Hannon

John Phinney

Ann Marie Dibenzo

Ronald Winship Sr.

Linda Winship

Gary E. & Barbara Winship

STATE OF MAINE

RECEIVED _____ COUNTY SS REGISTRY OF DEEDS
AT _____ M. _____ AND RECORDED IN
PLAN BOOK _____ PAGE _____
ATTEST _____ REGISTRAR _____

EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINE/ROW	---
---	ABUTTER LINE/ROW	---
---	SETBACK	---
---	WELL EXCLUSION ZONE	---
---	EASEMENT	---
---	BUFFER	---
---	FLOODPLAIN	---
---	FLOODWAY	---
---	CENTERLINE	---
---	MONUMENT	---
---	IRON PIPE/ROD	---
C1/L1	CURVE/LINE NO.	C1/L1
TP-1	TEST PIT	TP-1
B-3	BORING	B-3
---	BUILDING	---
---	EDGE WETLAND (GPS)	---
---	EDGE WETLAND (SURVEY)	---
---	STREAM	---
#	ROCK OUTCROP	#
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---	CONIFEROUS TREE	---
---	POTABLE WELL	---
---	CULVERT	---
---	UTILITY POLE	---
---	BUFFER PIN	---

FINAL MAJOR SUBDIVISION PLAN

OF: CANADA HILL SUBDIVISION
CANADA HILL ROAD / HIGHLAND CLIFF ROAD
WINDHAM, MAINE
FOR: BLESSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINDHAM MAINE 04092

DATE	SCALE
11-14-11	1"=60'

SHEET 4 OF 13

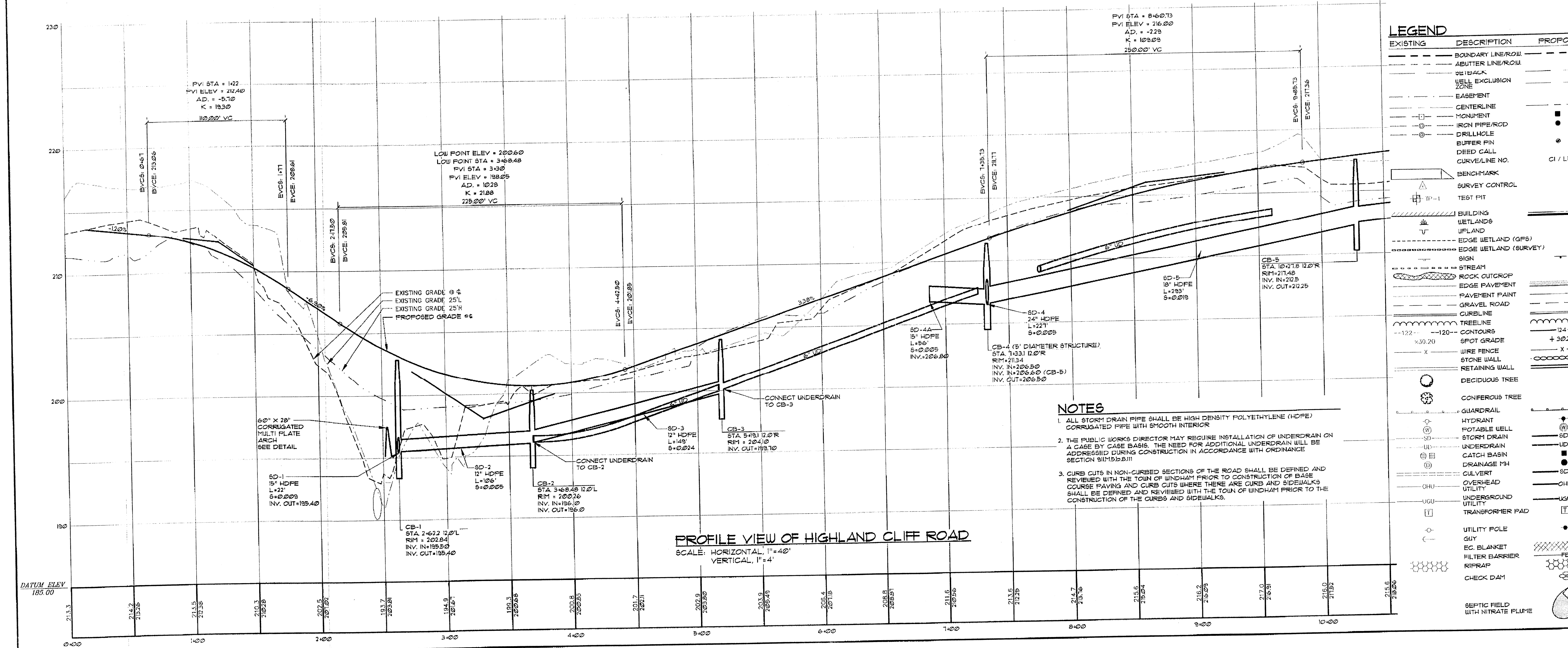
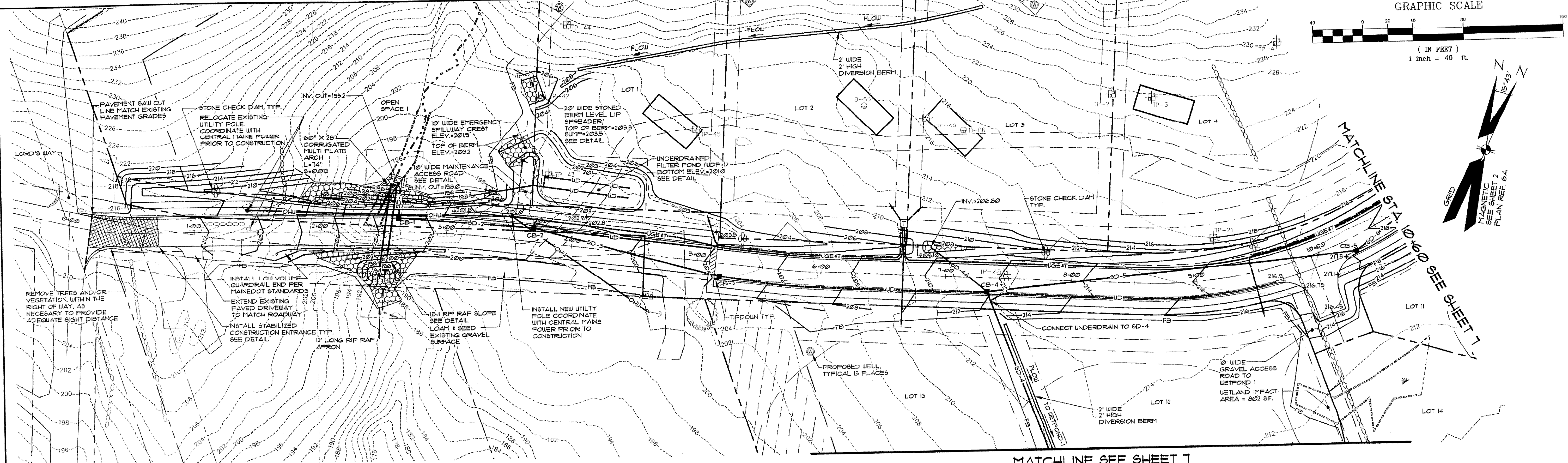
Sebago Technics
Engineering Expertise You Can Build On
One Capital Street
Windham, ME 04092-1339
Tel (207) 856-0277
WWW.SEBAGOTECHNIQS.COM

PROJECT NO. 05304
DESIGN: JRM/APP
FIELD BOOK: JRM/APP
CHECK: JRM/APP
DRAWN: JRM/APP
STATUS: JRM/APP

RECORD OWNER:
SEE NOTE 1 ON
SHEET 2 OF 13

DATE: 11-14-11
SCALE: 1"=60'

SHEET 4 OF 13



STATE OF MAINE
ANTHONY P. PARRICO, JR.
PA 00041
PROFESSIONAL ENGINEER
6062 11/15/13 S-13-13

05-23-12
APP
SUBMITTED FOR FINAL SUBDIVISION PLAN REVIEW

04-11-12
APP
REVISED PER MDP REVIEW COMMENTS

04-06-12
APP
SUBMITTED FOR MDP REVIEW PERMIT REVIEW

02-16-12
APP
REVISED PER MDP REVIEW COMMENTS

01-24-11
APP
REVISED PER PEER REVIEW COMMENTS

12-27-11
APP
SUBMIT FOR PRELIMINARY SUBDIVISION REVIEW

12-6-11
APP
STATUS:

DATE: 12-6-11

BY: [Signature]

REV: [Signature]

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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PROJECT NO. 053047

FIELD BOOK

DESIGN

CHKD

DRAWN

JRH/APP

APP

JRH/AL

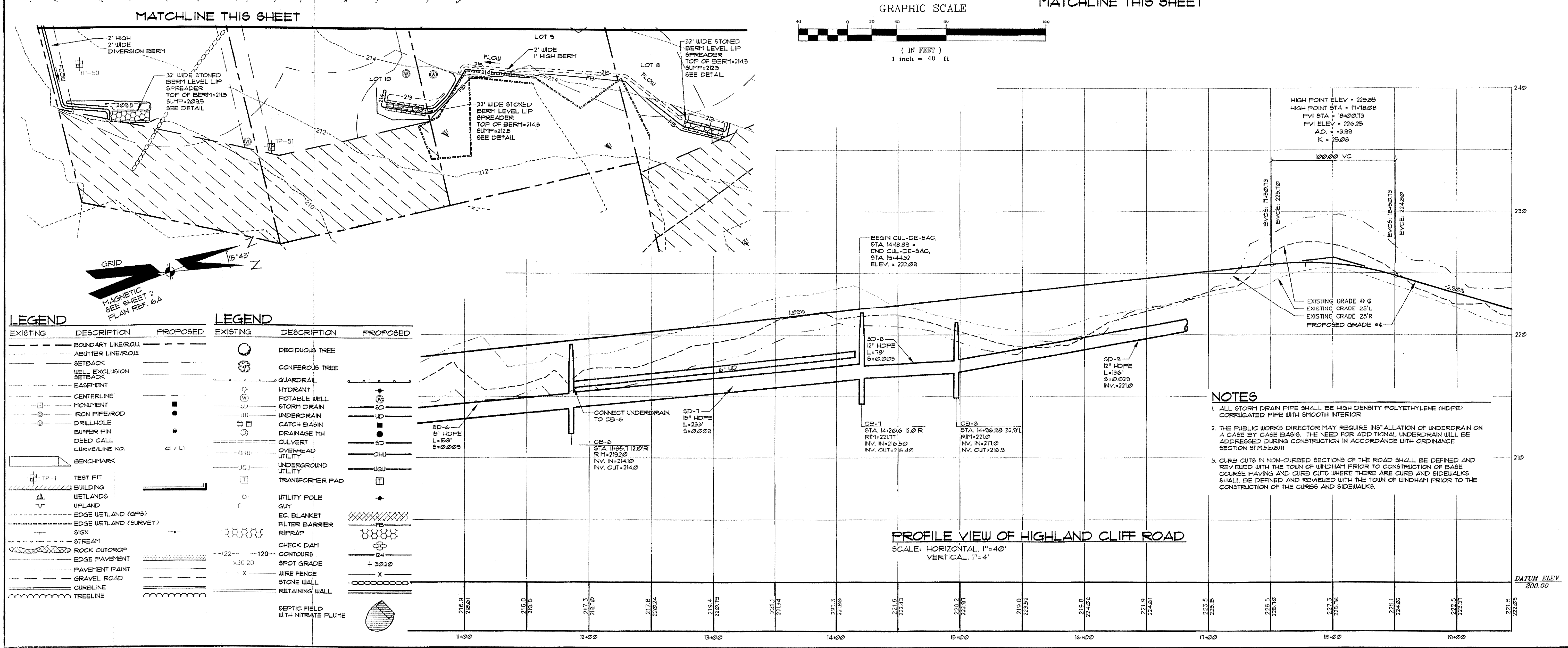
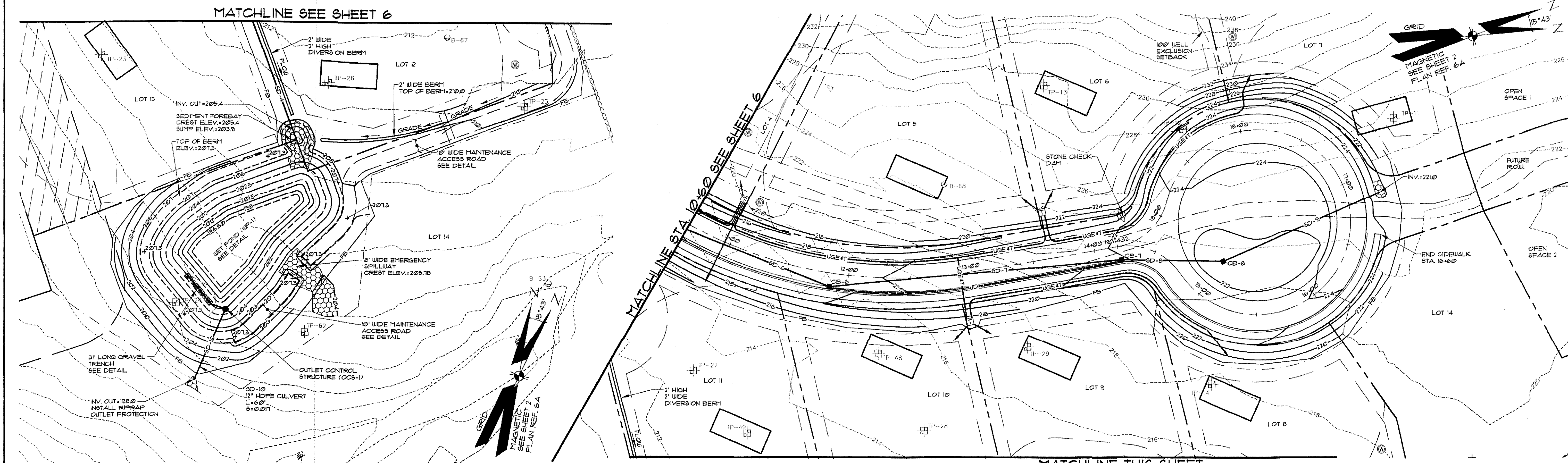
PLAN & PROFILE - 1
OF
CANADA HILL SUBDIVISION
CANADA HILL ROAD / HIGHLAND CLIFF ROAD
WINDHAM, MAINE
FOR:
BLESSSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINDHAM MAINE 04062

DATE
11-14-11

SCALE
AS SHOWN

SHEET 6 OF 13

053047.dwg, TAB: F1



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PROJECT NO. 05304
FIELD BOOK 05304
DESIGN JR/HAP
CHKD APP
DRAWN JR/HAP

DATE 11-14-11
SCALE AS SHOWN

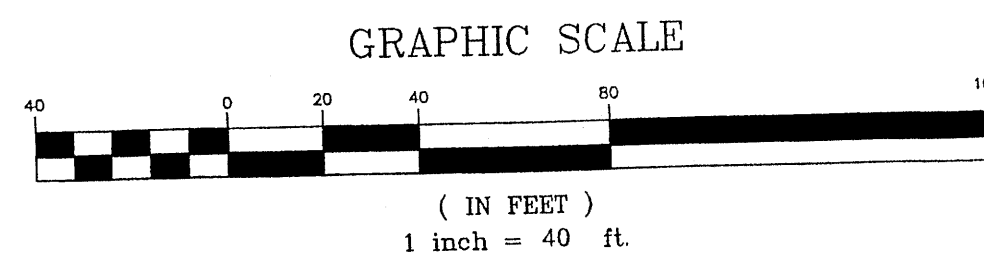
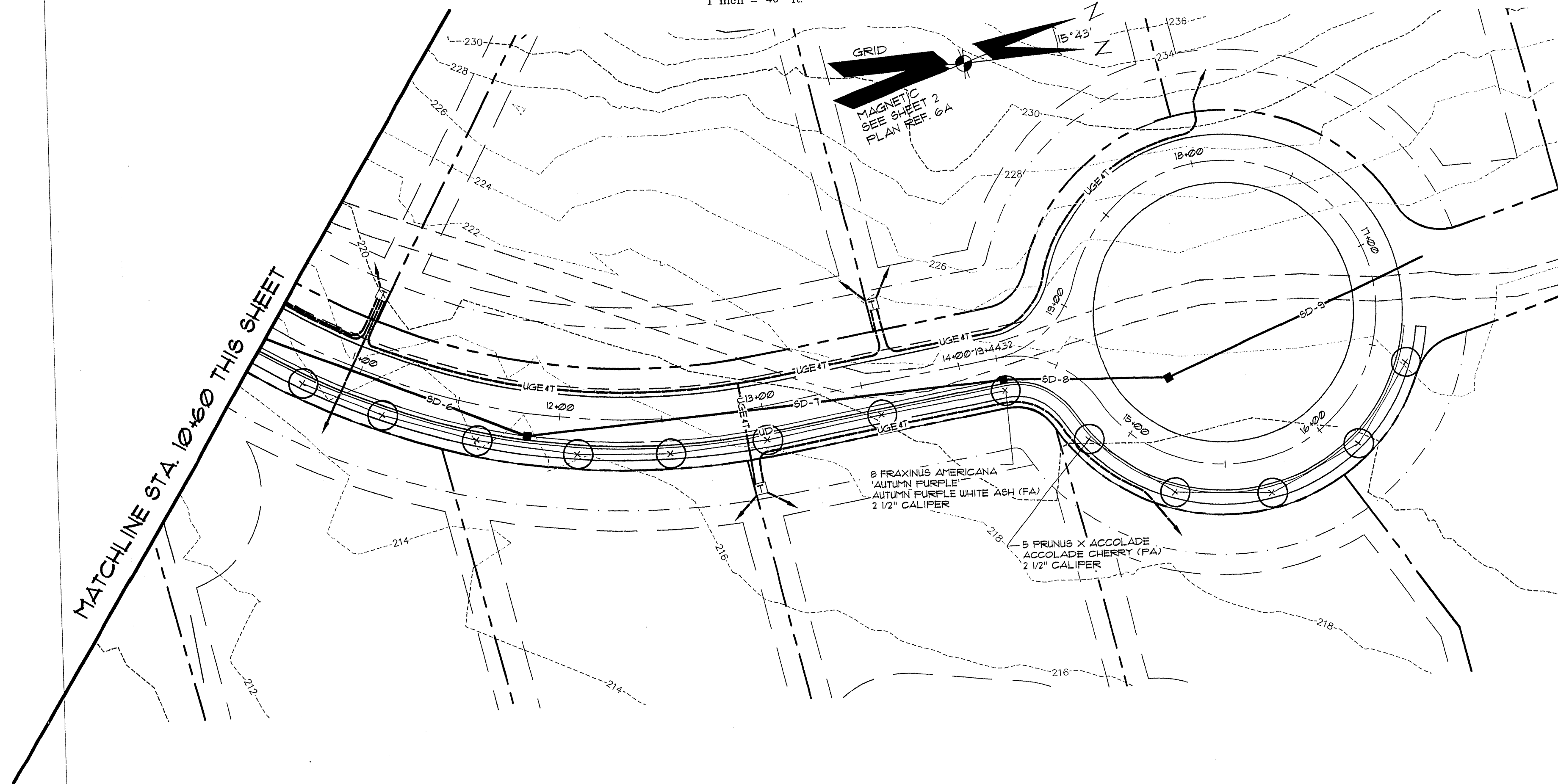
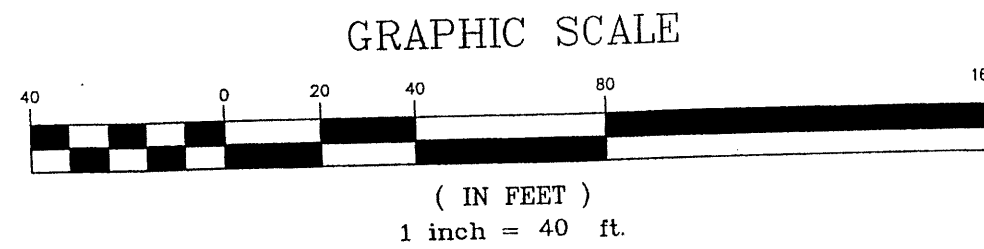
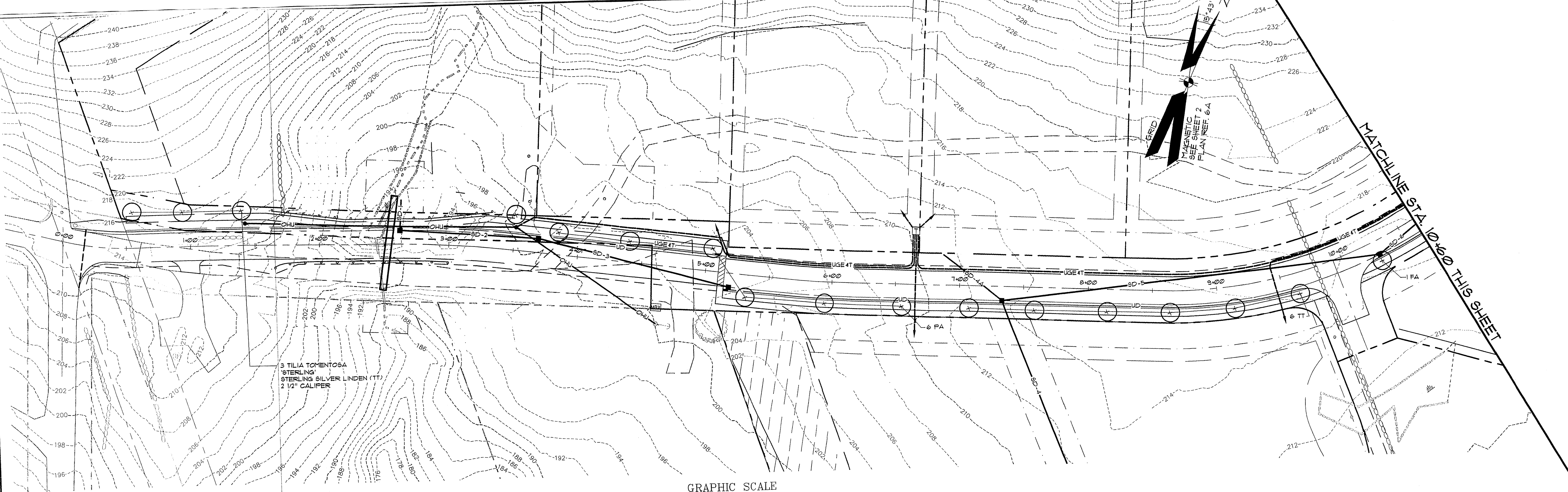
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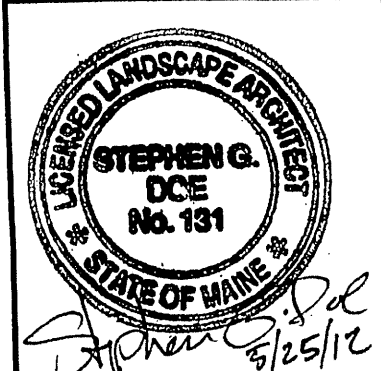
DATE 11-14-11
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DATE 11-14-11
SCALE AS SHOWN

DATE 11-14-11
SCALE AS SHOWN



LEGEND		
EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINE/ROW	---
---	ADJUTER LINE/ROW	---
---	SETBACK	---
---	WELL EXCLUSION ZONE	---
---	EASEMENT	---
---	CENTERLINE	---
---	MONUMENT	---
---	IRON PIPE/ROD	---
---	DRILLHOLE	---
---	BUFFER PIN	---
---	DEED CALL	---
---	CURVE/LINE NO.	---
---	BENCHMARK	---
---	SURVEY CONTROL	---
---	TEST PIT	---
---	BUILDING	---
---	WETLANDS	---
---	UPLAND	---
---	EDGE WETLAND (GPS)	---
---	EDGE WETLAND (SURVEY)	---
---	SIGN	---
---	STREAM	---
---	ROCK OUTCROP	---
---	EDGE PAVEMENT	---
---	PAVEMENT PAINT	---
---	GRAVEL ROAD	---
---	CURBLINE	---
---	TREELINE	---
---	CONTOURS	---
---	SPOT GRADE	---
---	WIRE FENCE	---
---	STONE WALL	---
---	RETAINING WALL	---
---	DECIDUOUS TREE	---
---	CONIFEROUS TREE	---
---	GUARDRAIL	---
---	HYDRANT	---
---	POTABLE WELL	---
---	STORM DRAIN	---
---	UNDERDRAIN	---
---	CATCH BASIN	---
---	DRAINAGE PI	---
---	CULVERT	---
---	OVERHEAD UTILITY	---
---	UNDERGROUND UTILITY	---
---	TRANSFORMER PAD	---
---	UTILITY POLE	---
---	GUY	---
---	EG. BLANKET	---
---	FILTER BARRIER	---
---	RIPRAP	---
---	CHECK DAM	---



APP	DATE	REVISION
APP	05-23-12	SUBMITTED FOR FINAL SUBDIVISION PLAN REVIEW
APP	04-11-12	REVISED PER MDEP REVIEW COMMENTS
APP	04-08-12	REVISED PER MDEP REVIEW COMMENTS
APP	02-16-12	SUBMITTED FOR MDEP STORMWATER PERMIT REVIEW
APP	01-24-11	REVISED PER PEER REVIEW COMMENTS
APP	12-27-11	REVISED PER PEER REVIEW COMMENTS
APP	12-6-11	SUBMIT FOR PRELIMINARY SUBDIVISION REVIEW
BY:	DATE:	STATUS:
BY:	DATE:	STATUS:

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PROJECT NO. 05304L-GW9
DESIGN CHD
JRH/APP
JRH/MAL

LANDSCAPING PLAN
OF:
CANADA HILL SUBDIVISION
CANADA HILL ROAD / HIGHLAND CLIFF ROAD
WINDHAM, MAINE

FOR:
BLESSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINDHAM MAINE 04095

DATE: 11-14-11
SCALE: AS SHOWN

SHEET 8 OF 13

05304L-GW9, TAB: L5

EROSION CONTROL MEASURES

PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 85%-90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCE AND EXISTING ROADWAYS TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SUBMIT A SCHEDULE, A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL STAFF, THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL MEASURES. EROSION CONTROL MATS AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN 14-DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100' OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND LEASING CONDITIONS. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOIL. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. THE RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2023 OR LATER.

THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. ALSO, AREAS, WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRABBED WATERWAYS AND ON SLOPES GREATER THAN 15%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES).

TYPES OF MULCH:
HAY OR STRAW MULCH: BE APPLIED AT A RATE OF 75 LBS/1000 SF (15 TONS PER ACRE). EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES 3:1 OR LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THE THICKNESS ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS SHALL NOT BE USED ON SLOPES GREATER THAN 2:1.
EROSION CONTROL BLANKET: SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. SOIL STOCKPILES:

STACKS OF SOIL OR SUBSOIL SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1000 SF (15 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF MULCH. THIS MULCH SHALL BE REMOVED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1 OF THIS SECTION) WITHIN 1 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4 OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.

4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED ACROSS THE SLOPE(S) ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 85%-90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION.

SILT FENCE: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL 60 AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

HAY BALES: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DETERIORATION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ADJUTING ONE ANOTHER.

EROSION CONTROL MIX: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A WELL-GRADED PERFORATED POLYESTER FABRIC. THE MIX SHALL MEET THE STANDARDS DESCRIBED WITHIN THE NDSP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

CONTINUOUS PLACED BERRY: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX CONTAINED WITHIN A SYNTHETIC TUBULAR NETTING AND PERFORIS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALE ARE ESTABLISHED WITH AT LEAST 85 %-90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

STONE CHECK DAMS: SHOULD BE CONSTRUCTED 3 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAN THE OUTER EDGES.

HAY BALE CHECK DAMS: WE DO NOT RECOMMEND THE USE OF HAY BALES AS CHECK DAMS.

MANUFACTURED CHECK DAMS: MANUFACTURED CHECK DAMS MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL, STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. STORM-DRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORM-DRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL, OR TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT FLOWING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

HAY BALE DROP INLET PROTECTION: WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET): SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET): MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE THE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY MONITORED FOR TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION AREA. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS.

8. DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY. DUST DURING THE DRY MONTHS AFTER DUST CONTROL MEASURES ARE COMPLETED. PRODUCTS SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES. HOWEVER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE.

9. TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHED LIVING) SHALL BE SELECTED FOR THE MAINT EROSION AND SEDIMENT CONTROL. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

1. PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

SEEDED PREPARATION:

A. SOILS (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

ITEM	APPLICATION RATE
10-20-20 FERTILIZER (N-P2O5-K2O OR EQUAL)	10.4 LBS/1000 SF
GROUND LIMESTONE (50% CALCIUM & MAGNESIUM OXIDE)	13.9 LBS/1000 SF
C. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND.	

APPLICATION OF SEED:

A. SEEDING SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY, A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: (NDSP SEED MIX 2 IS DISPLAYED)

SEED TYPE	APPLICATION RATE
CREeping RED FESCUE	0.46 LBS/1000 SF (12 LBS/ACRE)
RED TOP	0.09 LBS/1000 SF (2 LBS/ACRE)
TALL FESCUE	0.46 LBS/1000 SF (12 LBS/ACRE)
TOTAL	0.91 LBS/1000 SF (42 LBS/ACRE)

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. THE RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2023 OR LATER.

B. HYDROSEEDING SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. RECOMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. MULCHING SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

SEEDING:

1. TRENCH DEWATERING AND TEMPORARY STREAM DIVERSION:
WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE LINED POOL) PRIOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING AND SEDIMENT DISCHARGES TO A PROTECTED RESOURCE. IN NO CASE SHALL THE FILTER BAG OR CONTAINMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

STANDARDS FOR TIMELY STABILIZATION:

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (15:1) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MIX OVER THE SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(D) OF THIS STANDARD.
B. STABILIZE THE SLOPE WITH SOD -- THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD. BY OCTOBER 1, PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOD. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

C. STABILIZE THE SLOPE WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OR THE DISTURBED SOIL.

D. STABILIZE THE SLOPE WITH STONE RIPRAP -- THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE SLOPE. THE CONTRACTOR SHALL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C) OF THIS STANDARD.

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WINTER EROSION CONTROL MEASURES

THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL MEASURES. EROSION CONTROL MATS AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN 14-DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100' OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OR THE DISTURBED SOIL.

2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OR THE DISTURBED SOIL. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

3. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERRIS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT SILT FENCES.

4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUDE UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS/1000 SF. OR 15 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL. THE CONTRACTOR SHALL MONITOR GROWTH OF THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER FIBER LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN FROZEN SURFACE IS NOT VISIBLE THOUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 15, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

5. MULCHING ON SLOPES AND DITCHES

SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH FIBER NETTING OR WITH EROSION CONTROL BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS/1000 SF. ON ALL SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

6. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME THE AREAS ARE NO LONGER FROZEN. IF THE AREAS ARE NOT FROZEN BY OCTOBER 15 AND IF THE MAY BE DORMANT SEEDING AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED.

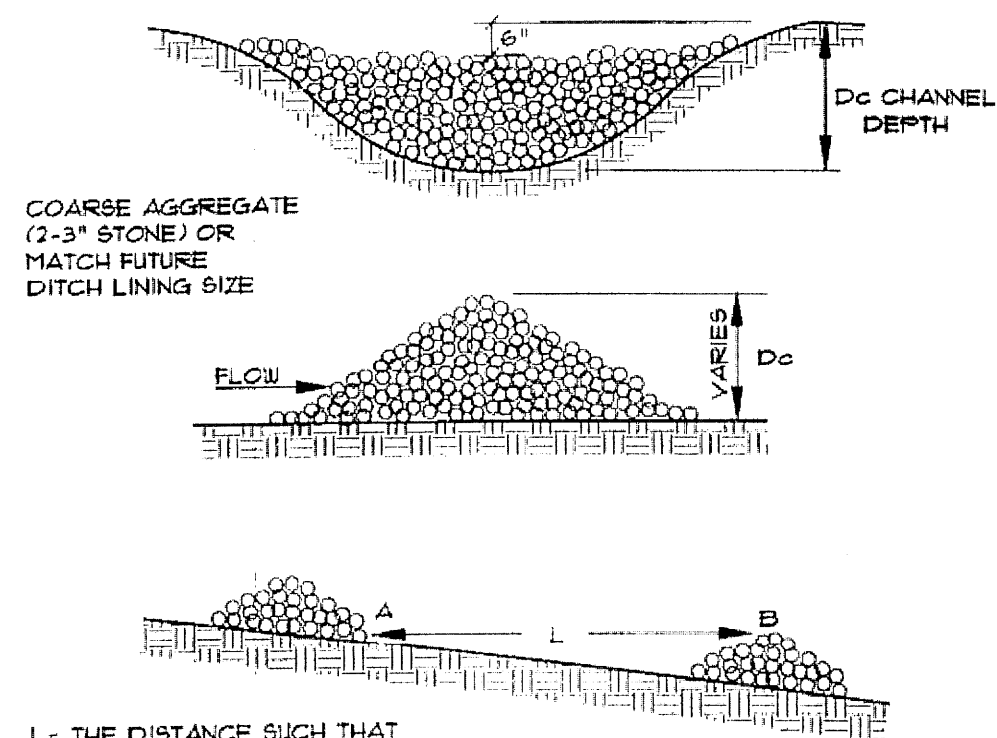
IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4' OF LOAM OR SEED AT AN APPLICATION RATE OF 230 LBS/1000 SF. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 15% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.

7. TRENCH DEWATERING AND TEMPORARY STREAM DIVERSION

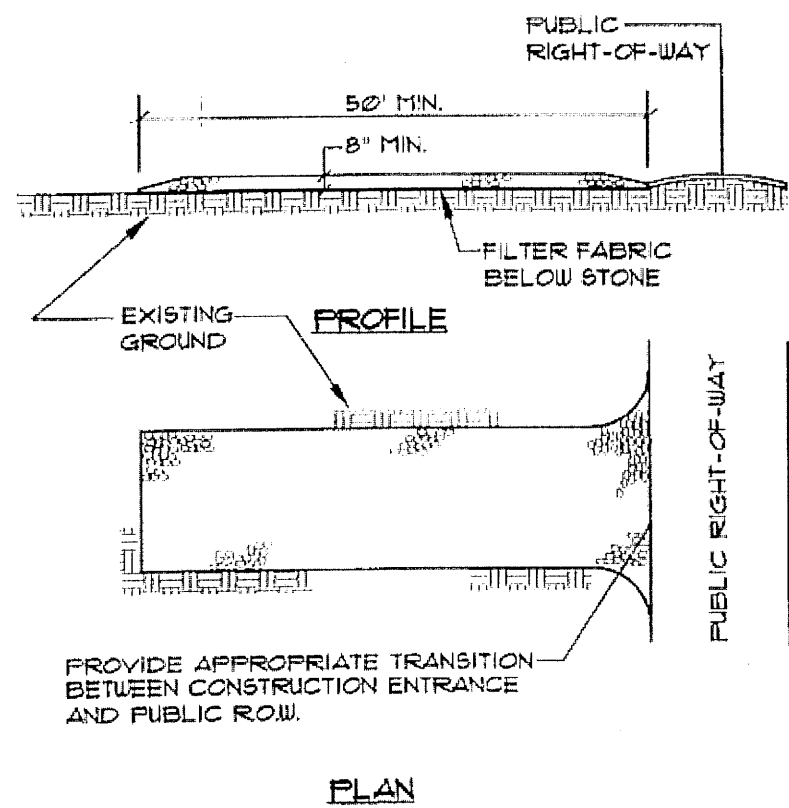
WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE LINED POOL) PRIOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING AND SEDIMENT DISCHARGES TO A PROTECTED RESOURCE. IN NO CASE SHALL THE FILTER BAG OR CONTAINMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

8. INSPECTION AND MONITORING

MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. SEDIMENT BARRIERS, MULCHING, THE CONTRACTOR SHALL IN THE SPRING INSPECT AND REPAIR ANY DAMAGES AND/OR UNSTABILIZED SPOTS. ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 85 TO 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

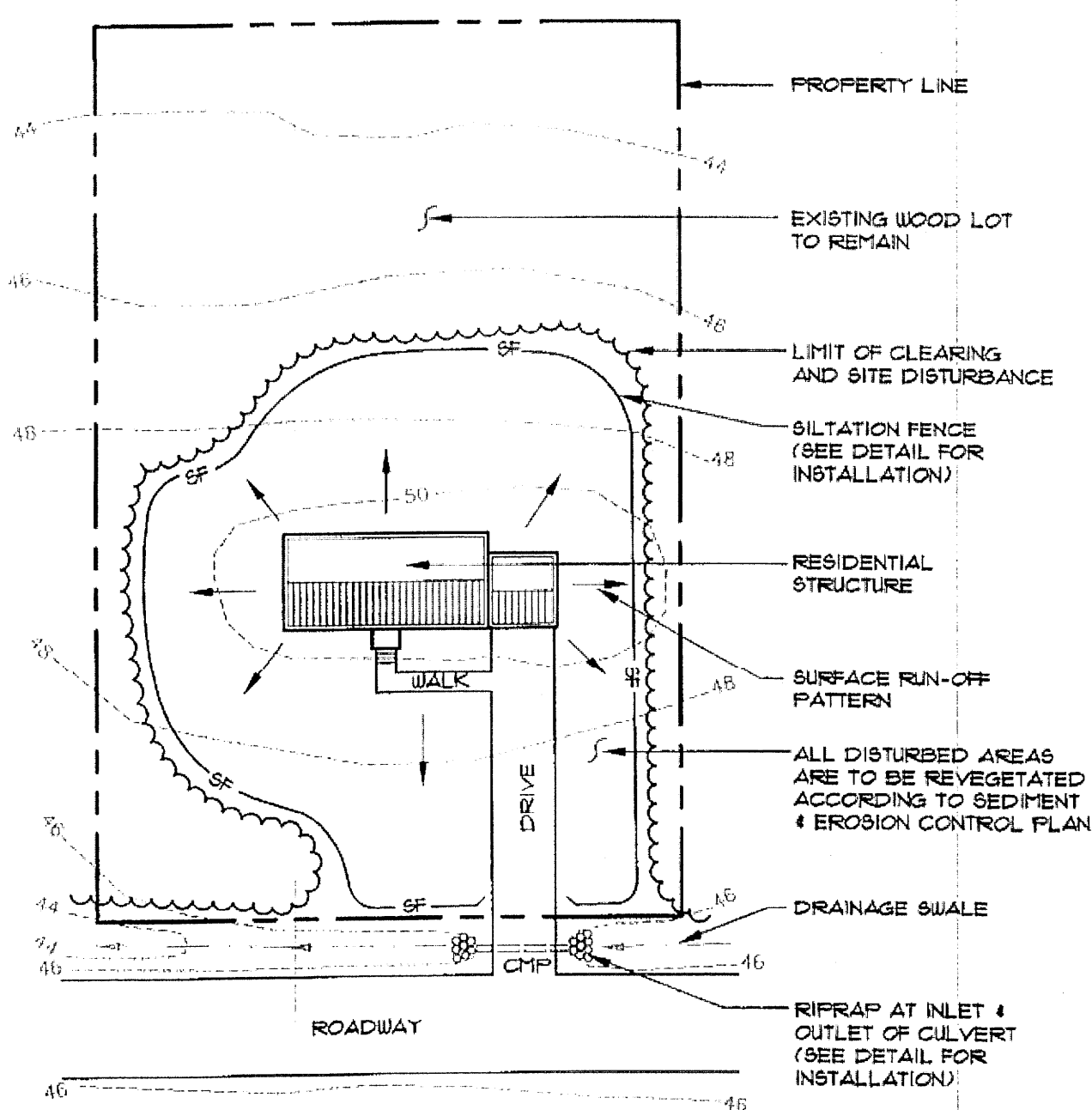


STONE CHECK DAM
NOT TO SCALE

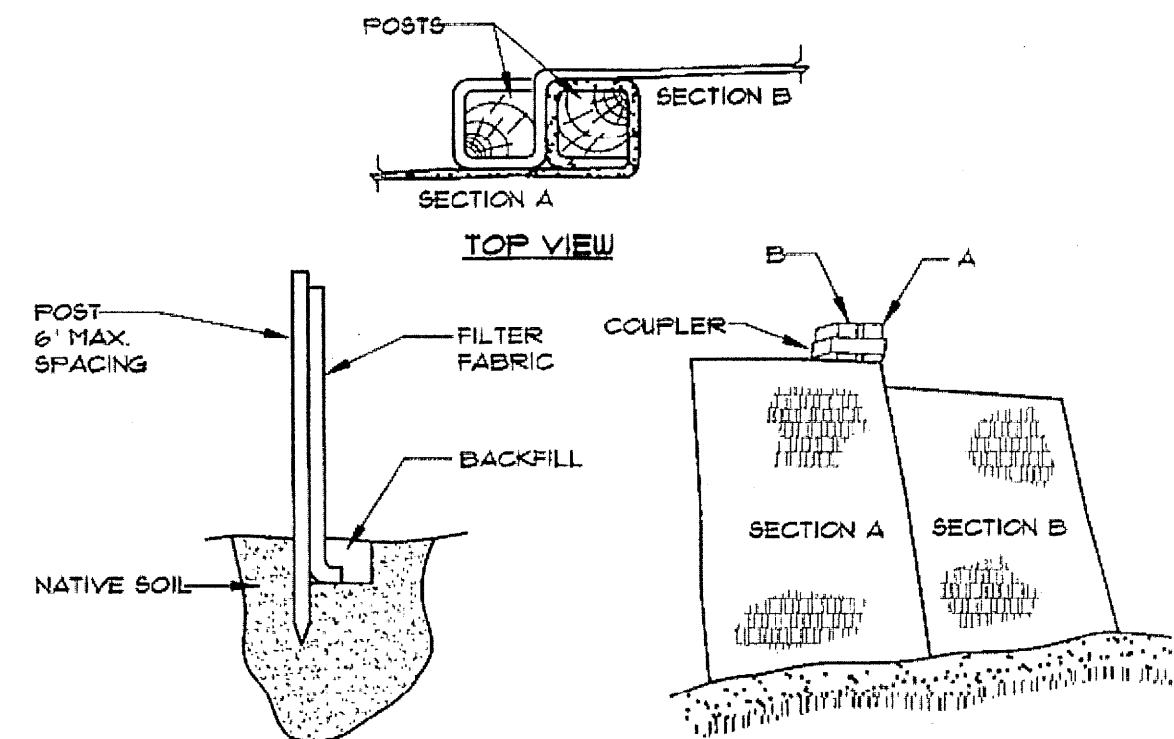


- NOTES:**
1. STONE SIZE- AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"), USE CRUSHED STONE.
 2. LENGTH- AS SHOWN ON PLANS, MIN. 50 FEET.
 3. THICKNESS- NOT LESS THAN EIGHT (8) INCHES.
 4. WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.
 5. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

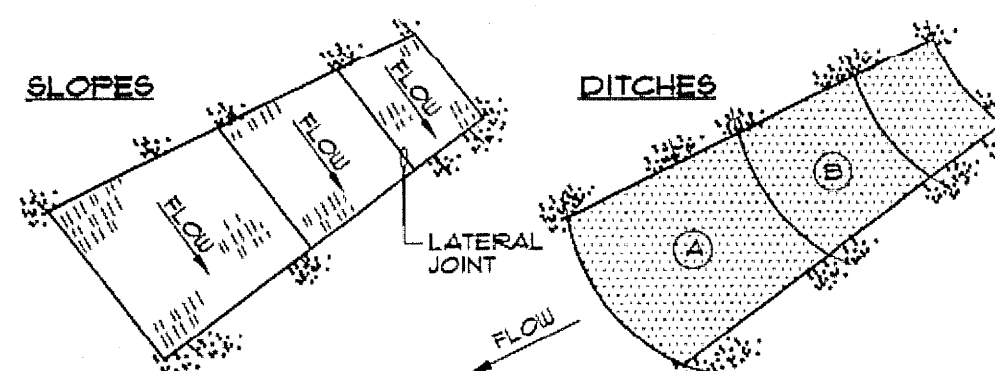


TYPICAL EROSION CONTROL MEASURES FOR RESIDENTIAL LOTS
NOT TO SCALE



- INSTALLATION:**
1. EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
 3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.
 4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND FILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.
 5. JOIN SECTION AS SHOWN ABOVE.
 6. BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

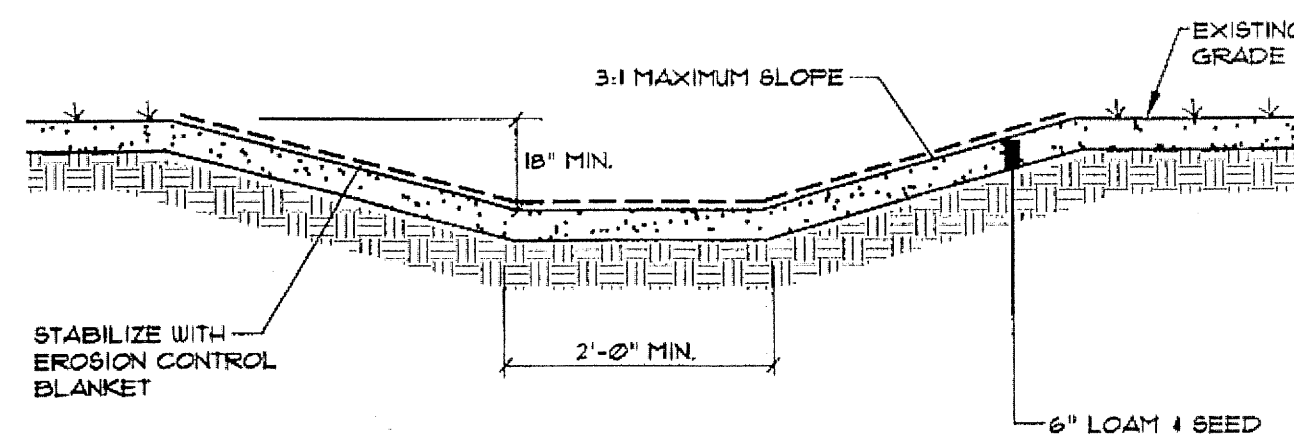
FILTER BARRIER
NOT TO SCALE



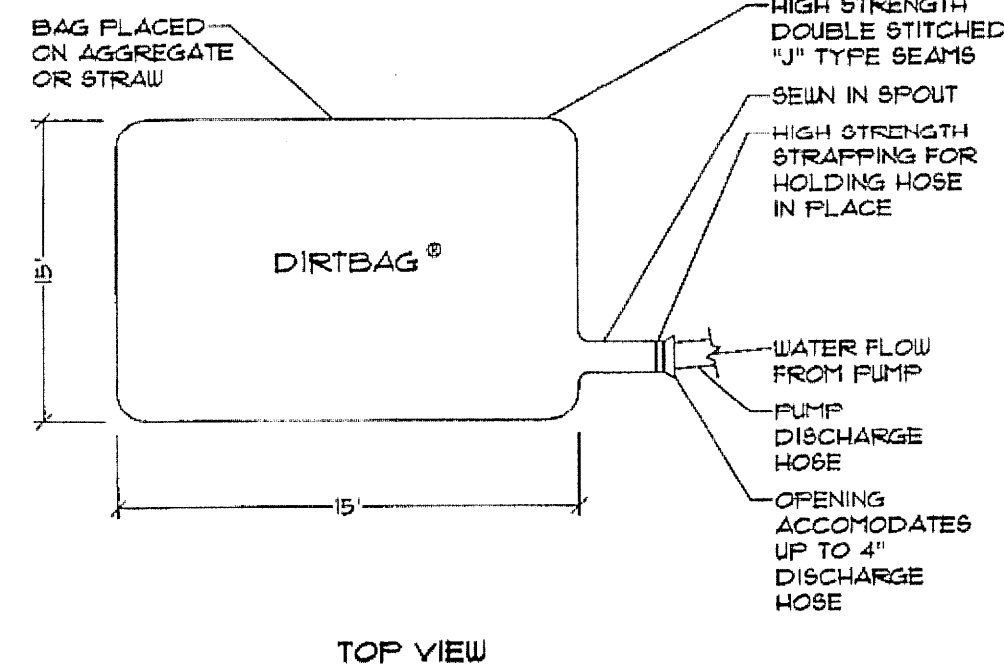
- NOTES:**
1. BURY THE TOP END OF THE MESH MATERIAL IN A 6" TRENCH AND BACKFILL AND TAMP TRENCHING SECURE END WITH STAPLES AT 6" SPACING, 4" DOWN FROM EXPOSED END.
 2. FLOW DIRECTION JOINTS TO HAVE UPPER END OF LOWER STRIP BURIED WITH UPPER LAYERS OVERLAPPED 4" AND STAPLED, OVERLAP B OVER A.
 3. LATERAL JOINTS TO HAVE 4" OVERLAP OF STRIPS, STAPLE 18" ON CENTER.
 4. STAPLE OUTSIDE LATERAL EDGE 2' ON CENTER.
 5. WIRE STAPLES TO BE MIN. OF 11 WIRE 6" LONG AND 1-1/2" WIDE.

SLOPES	EROSION CONTROL BLANKET
3:1 OR SHALLOWER	NORTH AMERICAN GREEN DS 150
3:1 TO 2:1	NORTH AMERICAN GREEN SC2B2
STEEPER THAN 2:1	SEE RIPRAP SIDE SLOPE DETAIL OR APPROVED EQUAL

EROSION CONTROL BLANKET
NOT TO SCALE

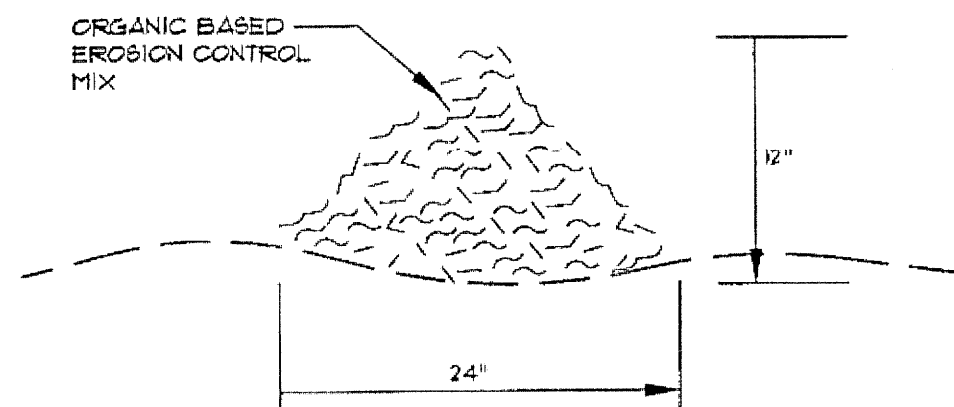


GRASSED SWALE
NOT TO SCALE



- INSTALLATION NOTES:**
1. DEWATERING AS REQUIRED CONSTRUCTION REMOVAL OF ACCUMULATED SEDIMENT SHALL BE ACCOMPLISHED WITHOUT DISCHARGING SEDIMENT LADEN WATER TO THE STREAMS AND/OR WETLANDS ADJUTING THE SITE.
 2. CONTRACTOR MAY UTILIZE A GEOTEXTILE PUMPED SEDIMENT CONTROL DEVICE ("DIRTBAG" OR EQUIVALENT).
 3. DIRTBAG SHALL BE INSTALLED AT TO MAINTAIN A 15' MINIMUM UNDISTURBED BUFFER FROM WETLANDS AND STREAMS.
 4. INSTALL DIRTBAG ON A 3" BED OF HAT TO MAXIMIZE FLOW OF WATER THROUGH ALL SURFACES OF THE BAG.
 5. SURROUND DIRTBAG WITH A DOUBLE ROW OF SILTATION FENCE, OR AN EROSION CONTROL BERM BACKED BY SILTATION FENCE.

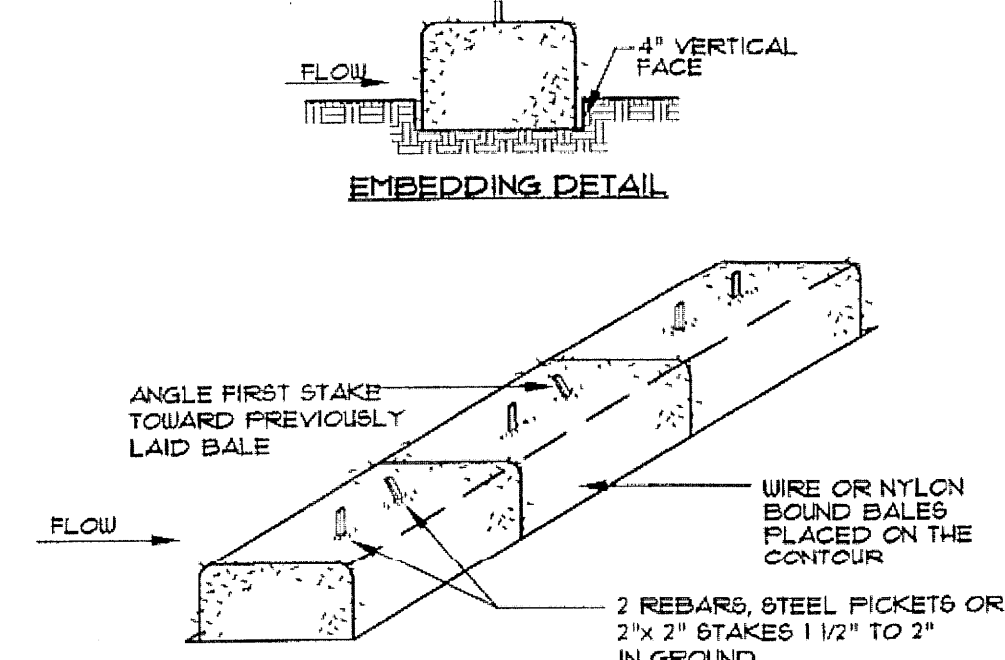
DIRTBAG PUMPED SILT CONTROL SYSTEM
NOT TO SCALE



- COMPOSITION**
- EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

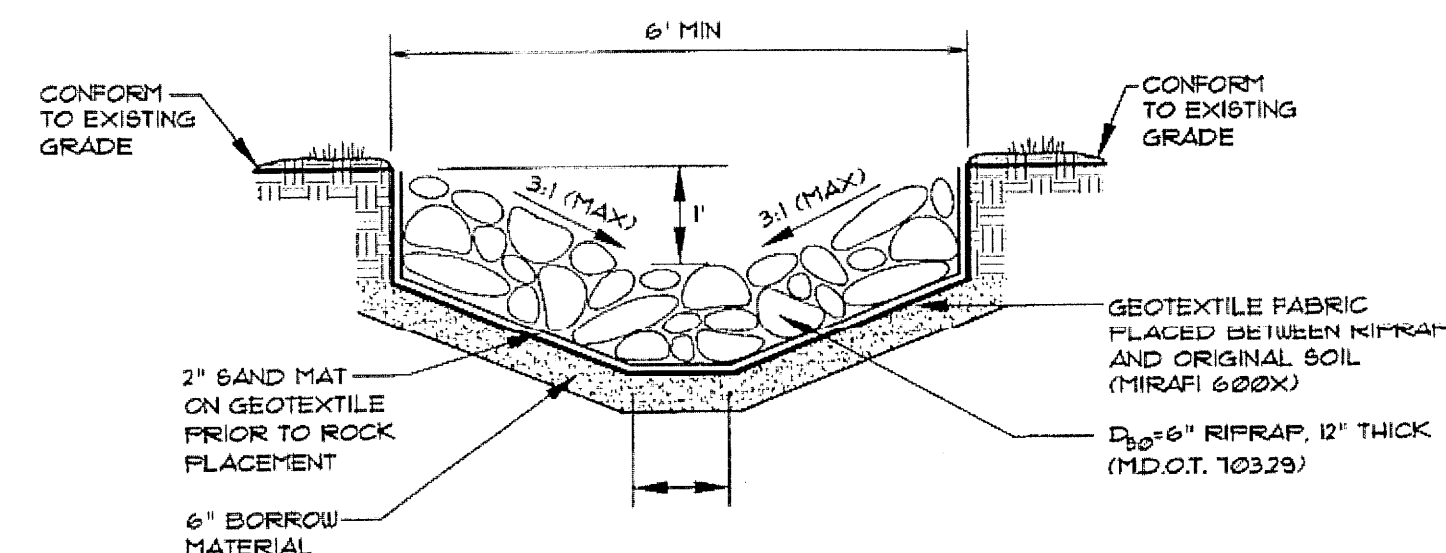
- INSTALLATION:**
1. THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
 2. EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER.
 3. THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.
 4. EROSION CONTROL MIX CAN BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS IN AREAS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.

EROSION CONTROL MIX BERM
NOT TO SCALE

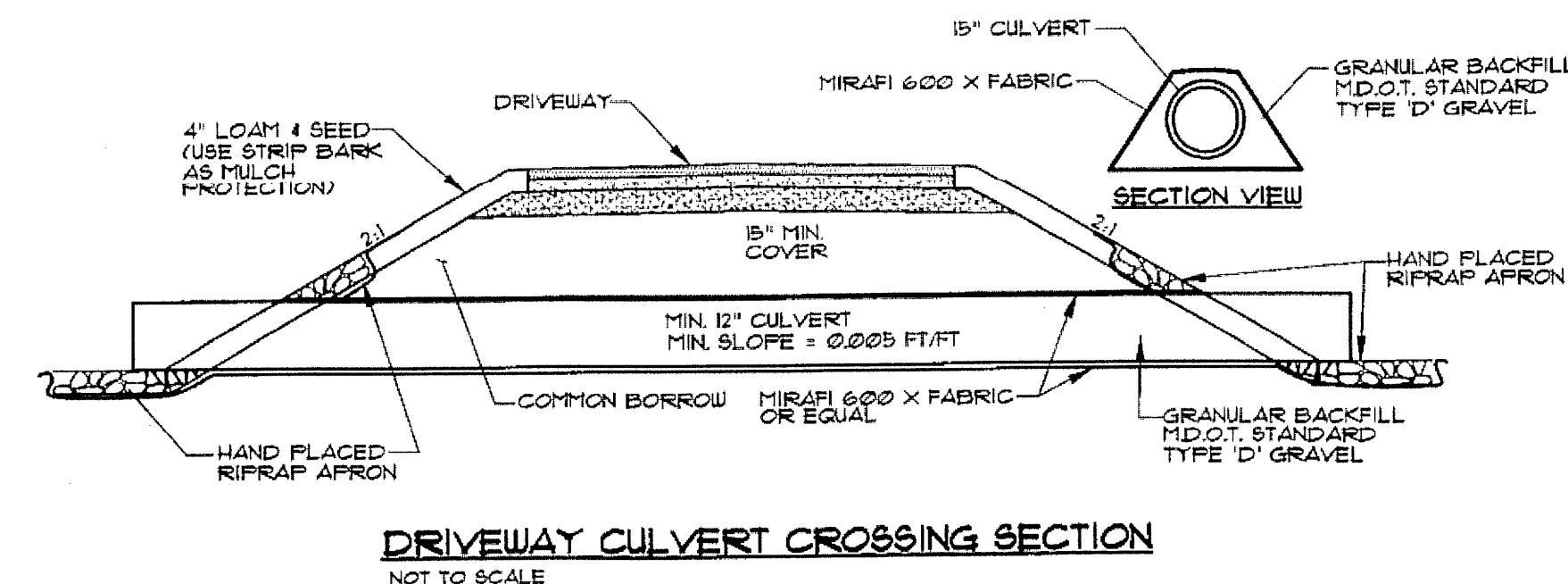


- NOTES:**
1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

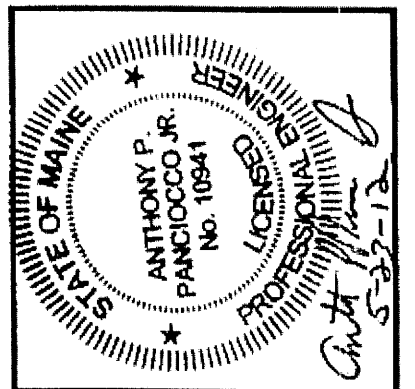
HAY BALE BARRIER
NOT TO SCALE



RIPRAP SWALE
NOT TO SCALE



DRIVEWAY CULVERT CROSSING SECTION
NOT TO SCALE



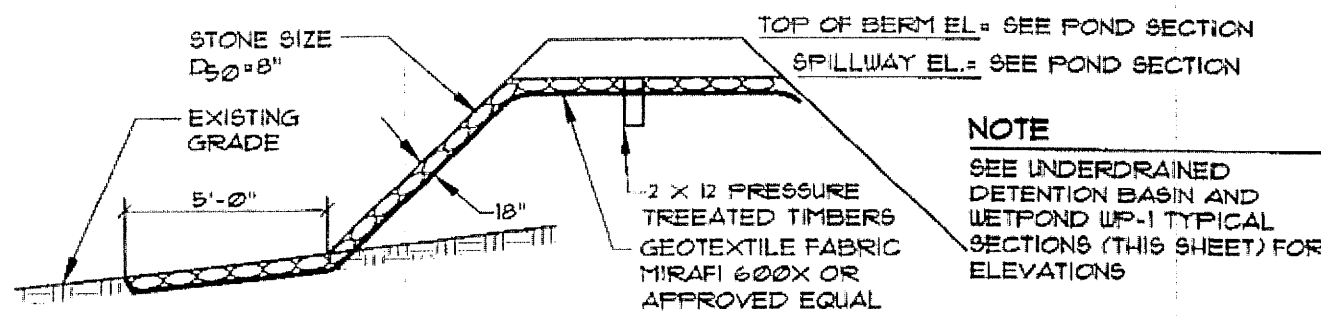
DATE	STATUS	REVISION
05-23-12	APP	1
04-11-12	APP	2
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02-16-12	APP	4
01-24-11	APP	5
12-27-11	APP	6
12-6-11	APP	7

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PROJECT NO. 03304
DESIGN APP
FIELD BOOK APP
DRAWN APP
REVIEW APP

DETAILS
OF:
CANADA HILL SUBDIVISION
CANADA HILL ROAD / HIGHLAND CLIFF ROAD
WINNHAM, MAINE
FOR:
BLESSED BY FOUR, LLC
ONE PERCY HAWKS ROAD
WINNHAM MAINE 04092

DATE	SCALE
11-14-11	AS SHOWN

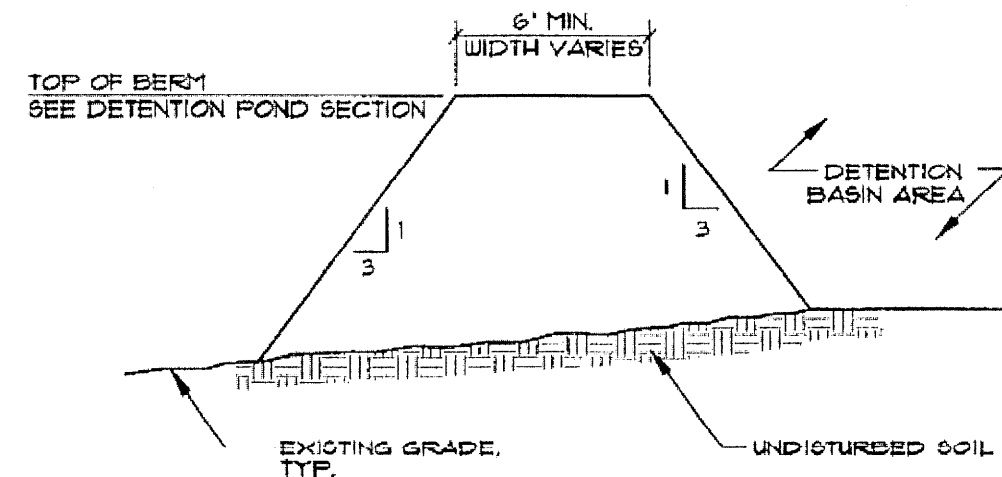


EMBANKMENT CONSTRUCTION

1. CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATION.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
3. INSTALL RIFRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

SPILLWAY SECTION

NOT TO SCALE



EMBANKMENT CONSTRUCTION

1. CONSTRUCTION MATERIAL SHALL MEET M.D.O.T. SPECIFICATION 103.18.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAX. DENSITY.
3. INSTALL RIFRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.
5. GRUB AND REMOVE ORGANICS BELOW POND BERM.

BERM DETAIL

NOT TO SCALE

TYPICAL RIFRAP APRON SCHEDULE

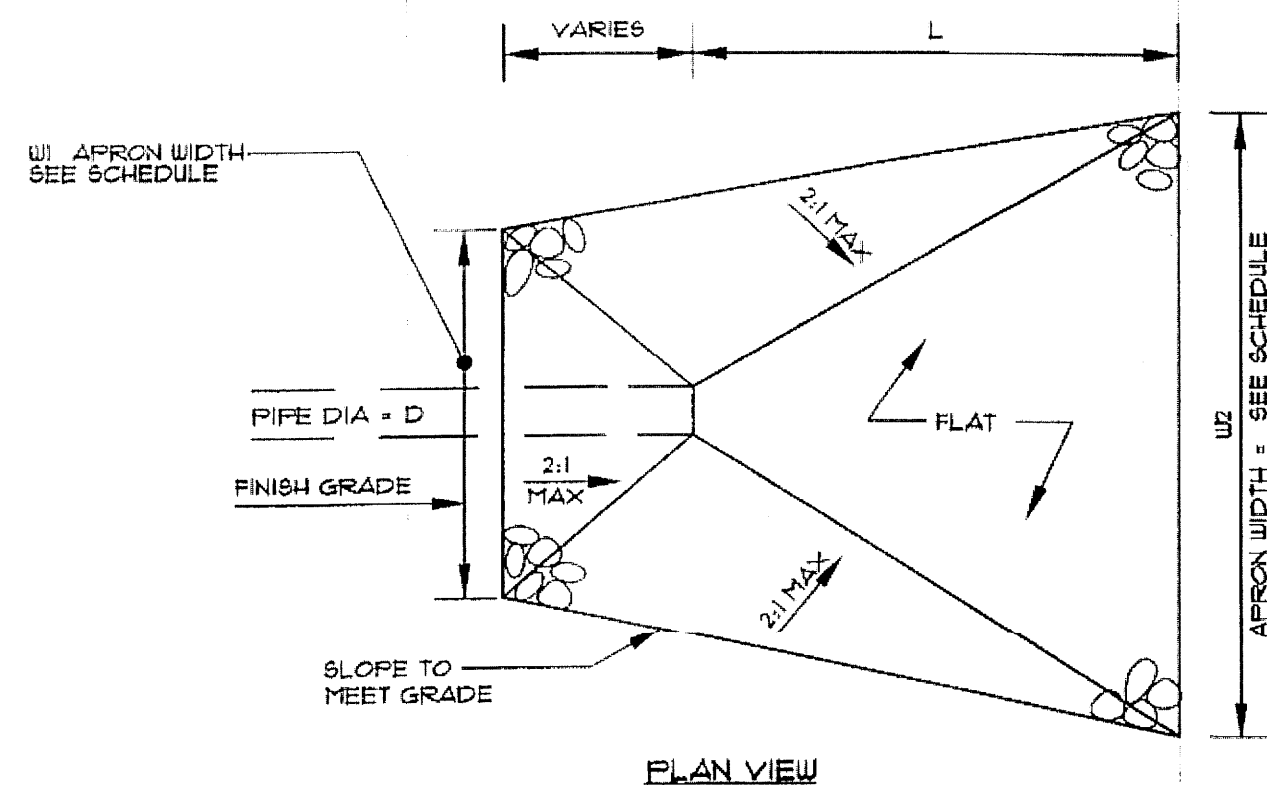
CULVERT DIAMETER - D (IN.)	APRON LENGTH - L (FT.)	WIDTH - W1 (FT.)	WIDTH - W2 (FT.)	RIFRAP D50 (IN.)	RIFRAP THICKNESS (IN.)
12	8	3	3	6	14
15	10	4	12	6	14
18	13	5	15	7	16

SIZING NOTES:

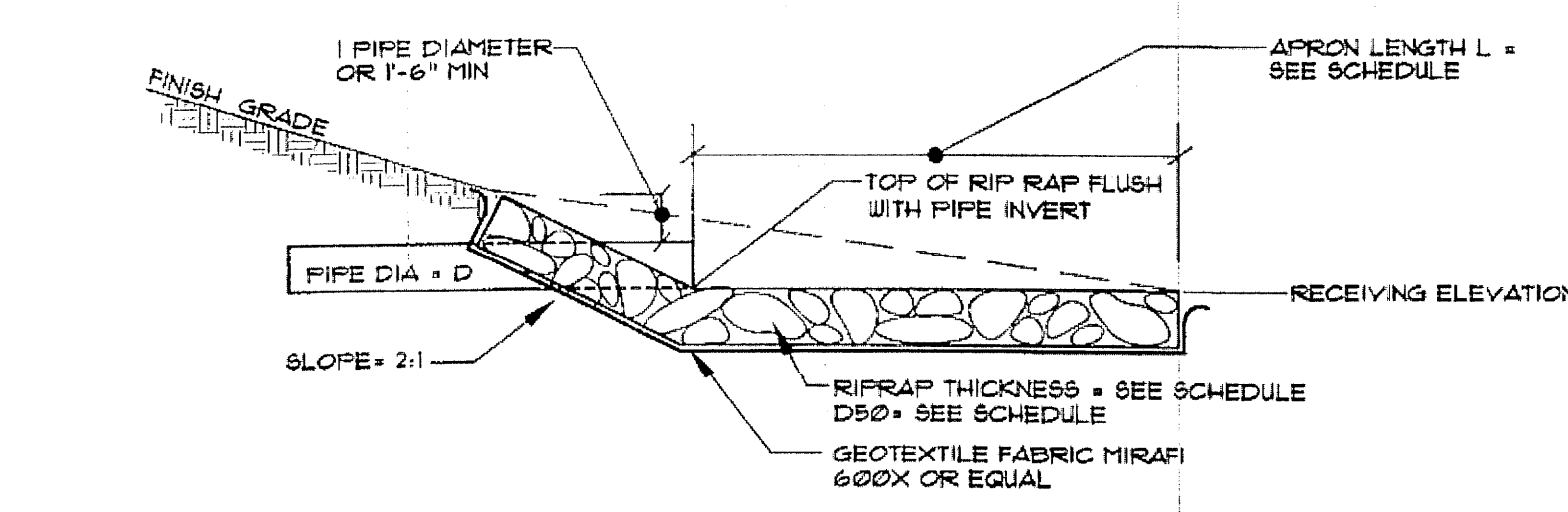
1. VALUES CALCULATED USING AN HDPE CULVERT AT A SLOPE OF 1% FLOWING FULL.
2. APRON LENGTHS AND RIFRAP D50 SIZES DETERMINED FROM THE OUTLET PROTECTION SIZING CHART IN THE MARCH 2003 MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL.
3. APRON WIDTHS W1 & W2 WERE BASED ON THE STANDARDS SET FORTH IN THE MARCH 2003 MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL SECTION E-3-2.
4. THESE DIMENSIONS ARE MINIMUM VALUES FOR EACH PIPE. IF NECESSARY, THESE DIMENSIONS CAN BE INCREASED AND ARE LABELED BY THE ENGINEER ON THE PLANS.

NOTES

1. RIFRAP TO BE PROCESSED ANGULAR ROCK
2. RIFRAP GRADATION SHALL BE A WELL GRADED MIX FROM ABOUT 15 TIMES D SIZE TO 25 PERCENT OF THE D SIZE
3. THE RIFRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD
4. STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12" ONTO THE GEOTEXTILE
5. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH, UNIFORMLY SLOPED SURFACE



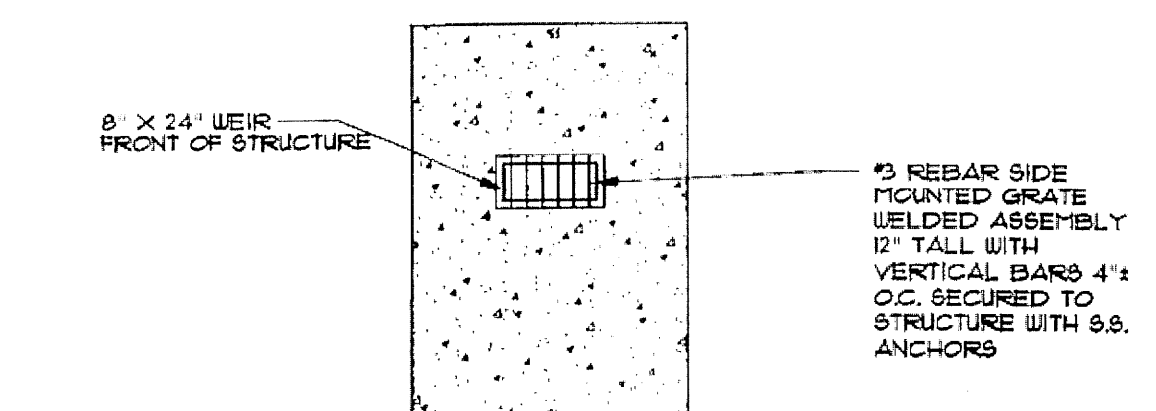
PLAN VIEW



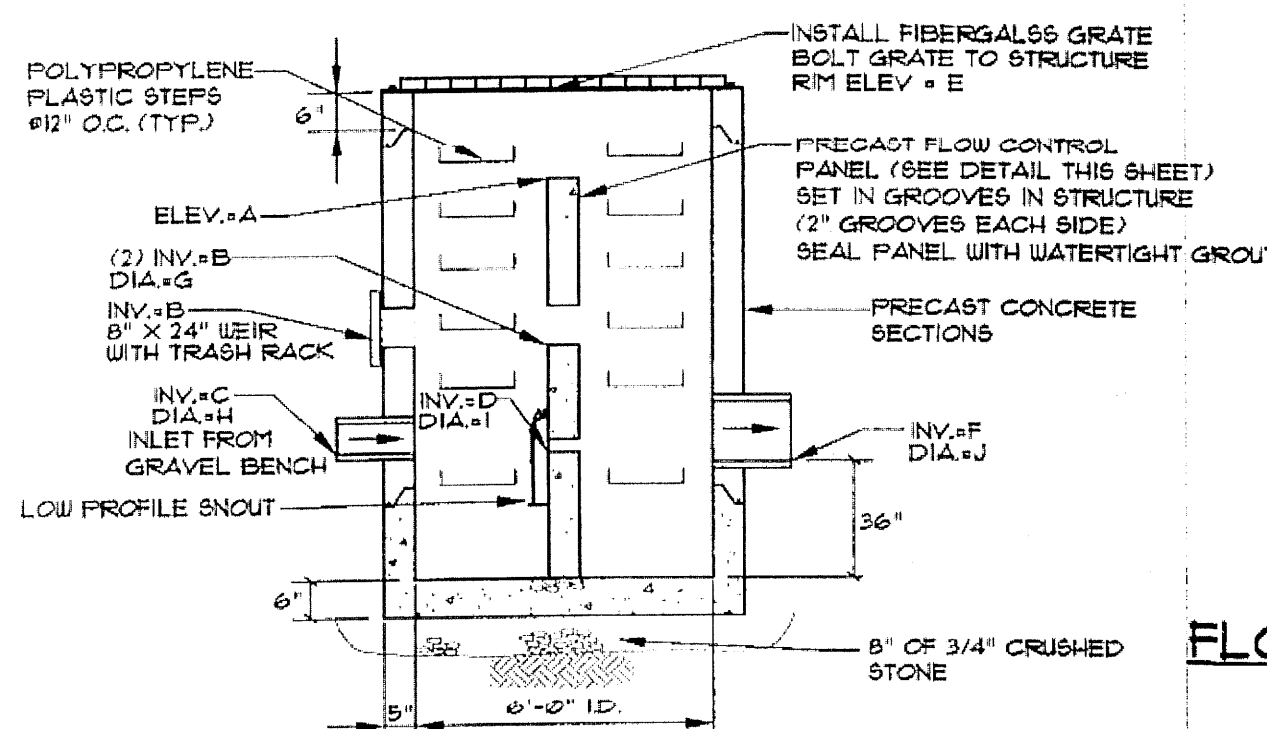
SECTION VIEW

RIFRAP APRON

NOT TO SCALE



TRASH RACK DETAIL

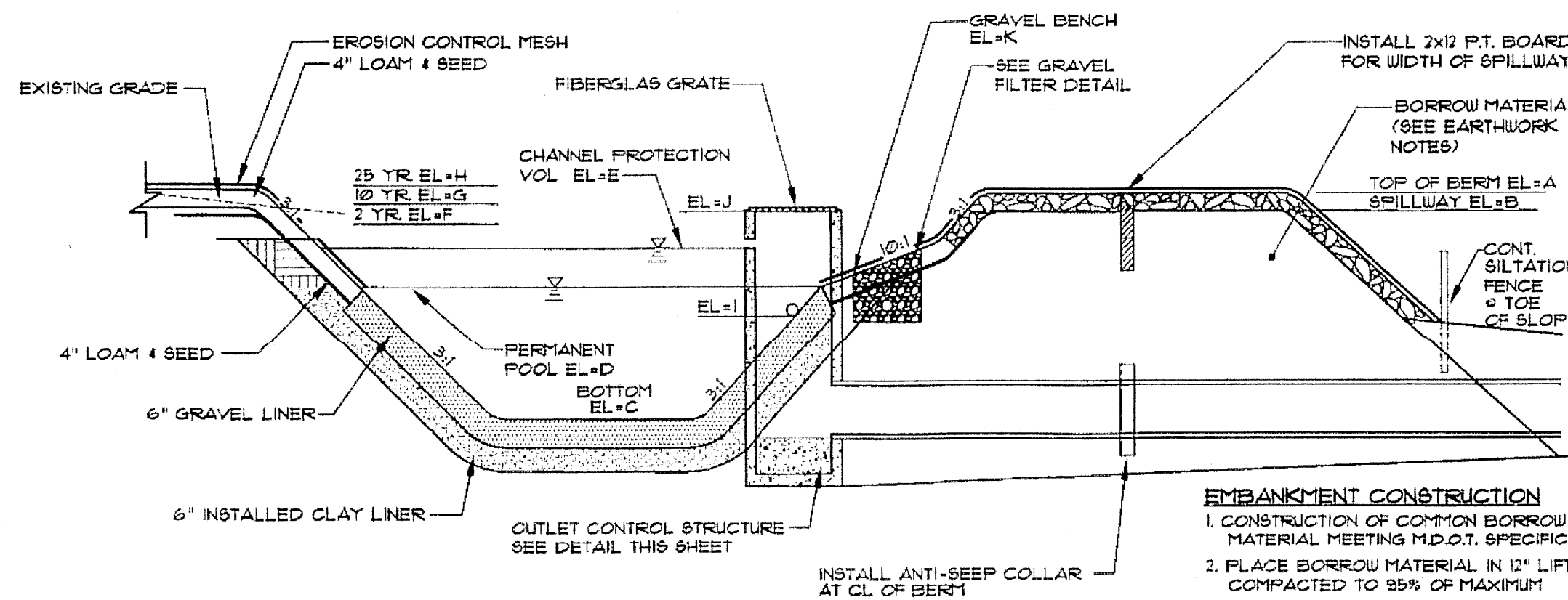


FLOW CONTROL PANEL

DETENTION BASIN	ELEVATIONS IN FEET						DIA 'G'	DIA 'H'	DIA 'I'	DIA 'J'
	A	B	C	D	E	F	IN.	IN.	IN.	IN.
WP-1	205.25	203.10	199.20	193.10	205.15	199.00	8	6	15	12

OUTLET CONTROL STRUCTURE SCHEDULE WP-1

1. INSTALL LOW PROFILE SNOT OVER 75" ORIFICE.

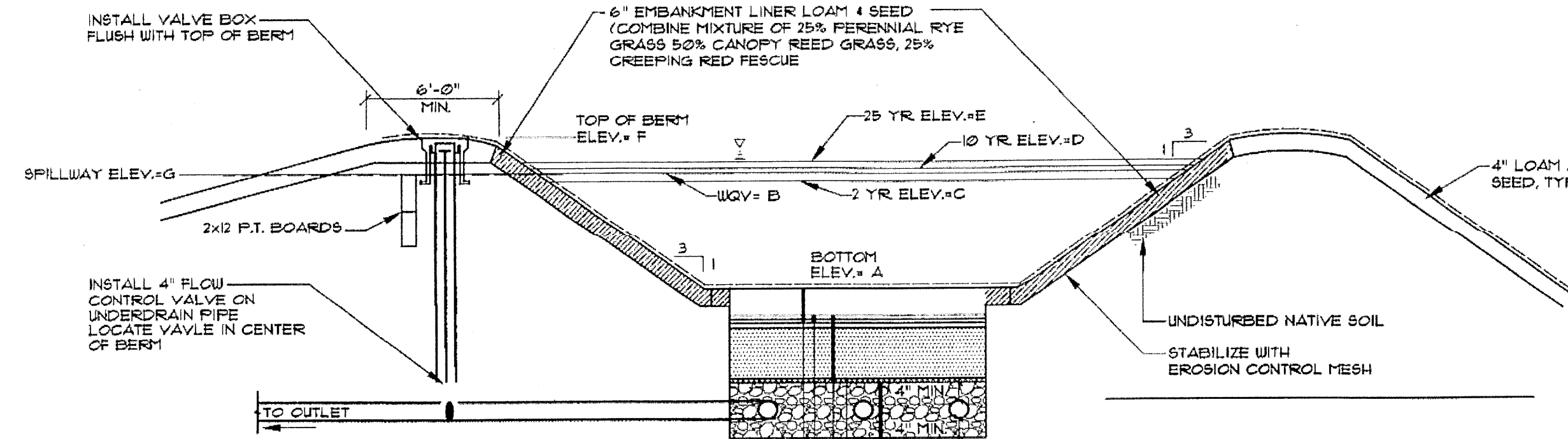


TYPICAL CONSTRUCTION SECTION AT WETPOND WP-1

NOT TO SCALE

CONSTRUCTION NOTES

1. IF EXISTING MARINE CLAY DEPOSITS ARE NOT ENCOUNTERED BELOW THE PERMANENT POOL ELEVATIONS FOR WETPOND WP-1, A SIX (6) INCH CLAY LINER SHALL BE INSTALLED WITHIN THE AREA OF THE PERMANENT POOL.
2. A SIX (6) INCH GRAVEL LINER IS REQUIRED ON TOP OF THE INTERIOR CLAY SURFACES OF WETPOND WP-1, BELOW THE PERMANENT POOL ELEVATION.



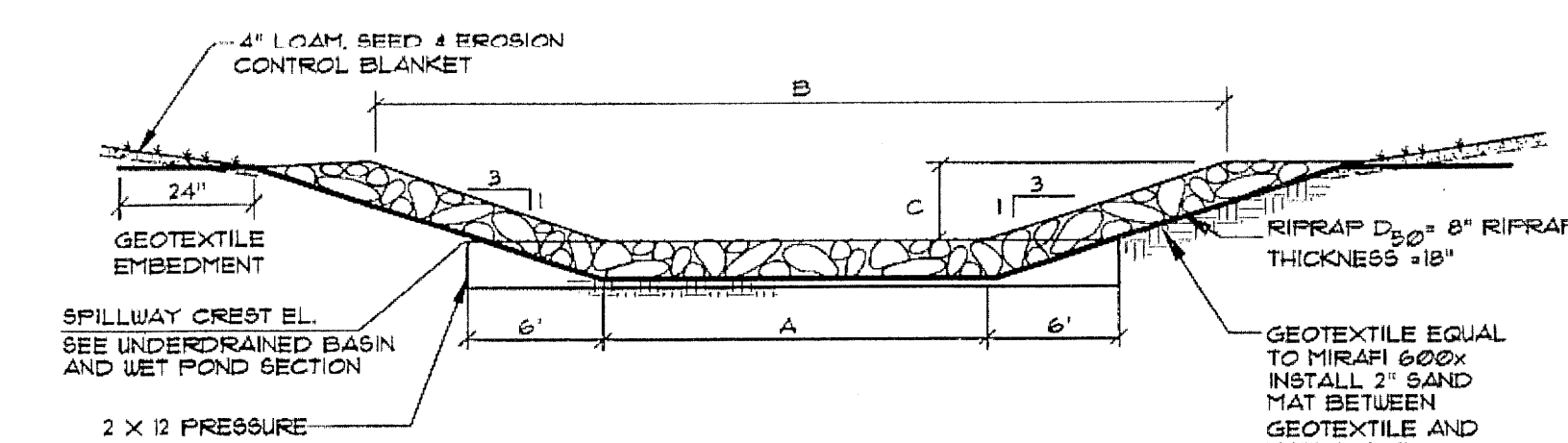
UNDERDRAINED DETENTION BASIN EMBANKMENT LINER SPECIFICATIONS NOTES

1. THE EMBANKMENT LINER SHALL BE 6 INCHES OF LOAM MIXED WITH SILT OR CLAY CONTENT GREATER THAN THAT OF THE SOIL FILTER BED. SUCH THAT THE PERMEABILITY OF THE EMBANKMENT LINER IS LESS THAN THE FILTER BED MATERIAL.
2. THE EMBANKMENT LINER SHALL BE INSTALLED THROUGHOUT THE ENTIRE INTERIOR SIDE OF THE BASIN AND SHALL EXTEND FROM THE FILTER BED TO THE TOP OF THE BERM.

UNDERDRAINED DETENTION BASIN, TYPICAL SECTION

NOT TO SCALE

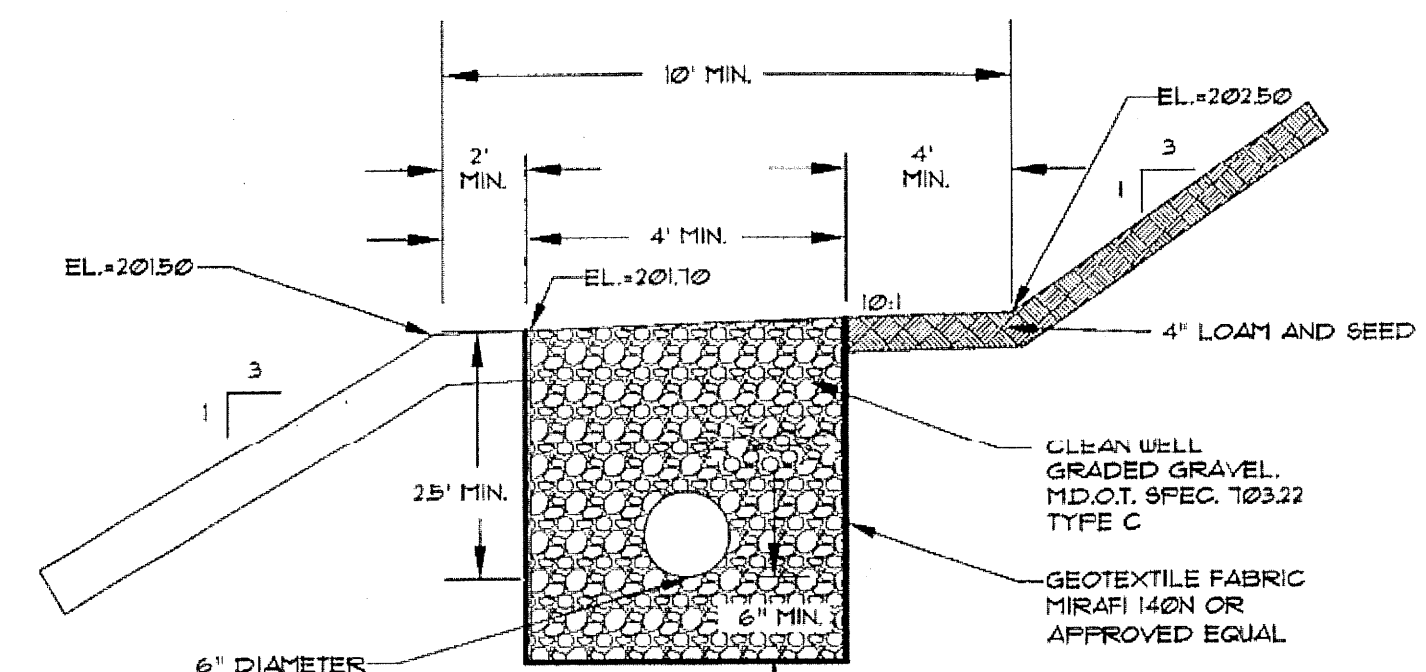
DETENTION BASIN	A	B	C	D	E	F	G
UDF-1	201.0	201.96	201.86	202.09	202.14	203.20	201.96



EMERGENCY SPILLWAY CROSS-SECTION

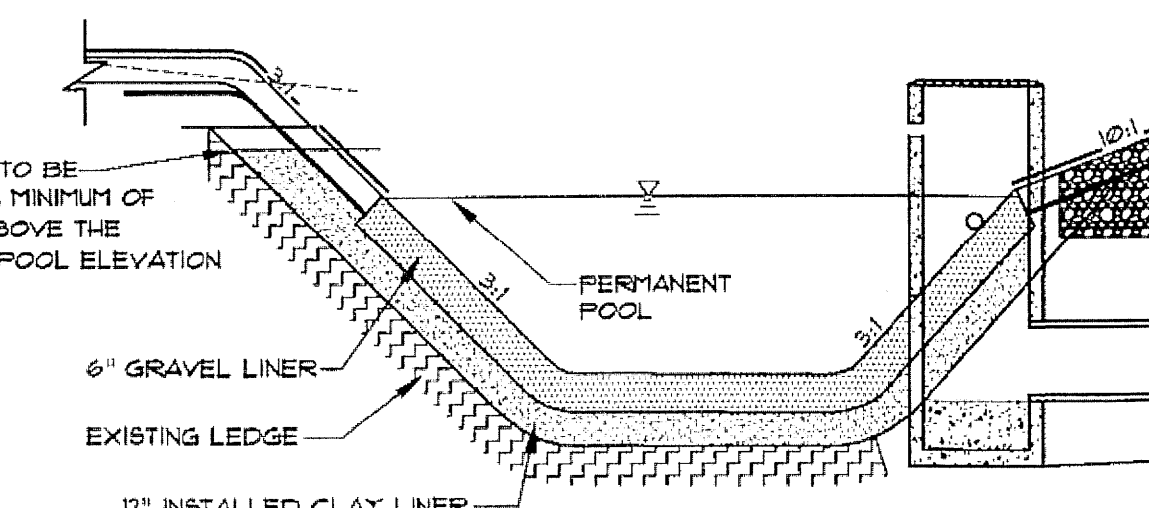
NOT TO SCALE

EMERGENCY SPILLWAY CROSS-SECTION	A	B	C
UDF-1	10	16.6	11
UP-1	8	16.4	14.5



TYPICAL POND BENCH GRAVEL FILTER DETAIL

NOT TO SCALE

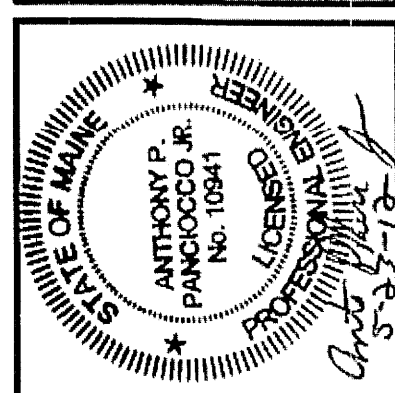


TYPICAL CONSTRUCTION SECTION AT WETPOND IN LEDGE

NOT TO SCALE

CONSTRUCTION NOTES

1. IF LEDGE IS ENCOUNTERED WITHIN THE AREA OF THE POND OVER BLAST THE LEDGE BY 1-FOOT AND INSTALL A MINIMUM 12" THICK CLAY LINER BETWEEN THE LEDGE AND THE POND BOTTOM. THE CLAY LINER SHALL EXTEND OVER THE ENTIRE LEDGE SURFACE WITHIN THE POND AREA, UP TO 1 FOOT ABOVE THE PERMANENT POOL ELEVATION.
2. A SIX (6) INCH GRAVEL LINER IS REQUIRED ON TOP OF THE INTERIOR CLAY SURFACES OF THE WETPOND, BELOW THE PERMANENT POOL ELEVATION.
3. SEE WETPOND WP-1 DETAIL THIS SHEET FOR ALL POND AND OUTLET STRUCTURE ELEVATIONS AND SIZES

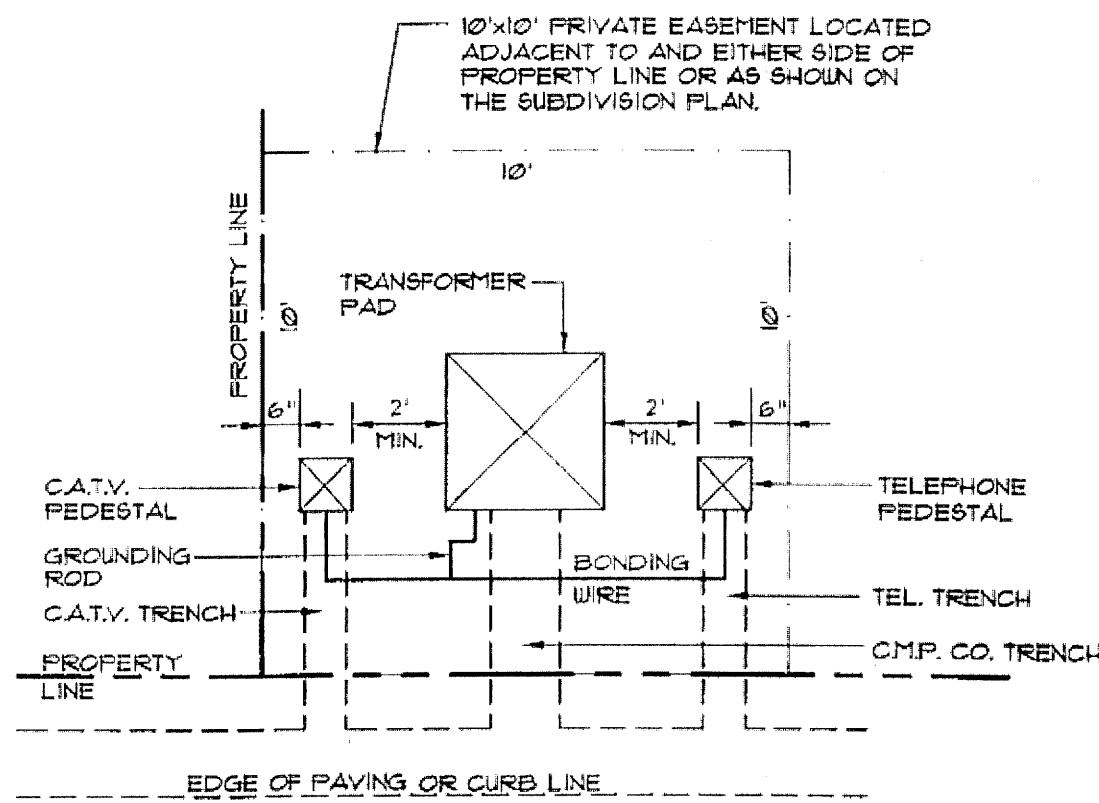


DATE	REVISION	DESCRIPTION
05-23-12	1	SUBMITTED FOR FINAL SUBDIVISION PLAN REVIEW
04-11-12	2	REVISED PER MDEP REVIEW COMMENTS
04-06-12	3	REVISED PER MDEP REVIEW COMMENTS
02-16-12	4	SUBMITTED FOR MDEP STORMWATER PERMIT REVIEW
01-24-11	5	REVISED PER PEER REVIEW COMMENTS
12-27-11	6	REVISED PER PEER REVIEW COMMENTS
12-6-11	7	SUBMITTED FOR PRELIMINARY SUBDIVISION REVIEW

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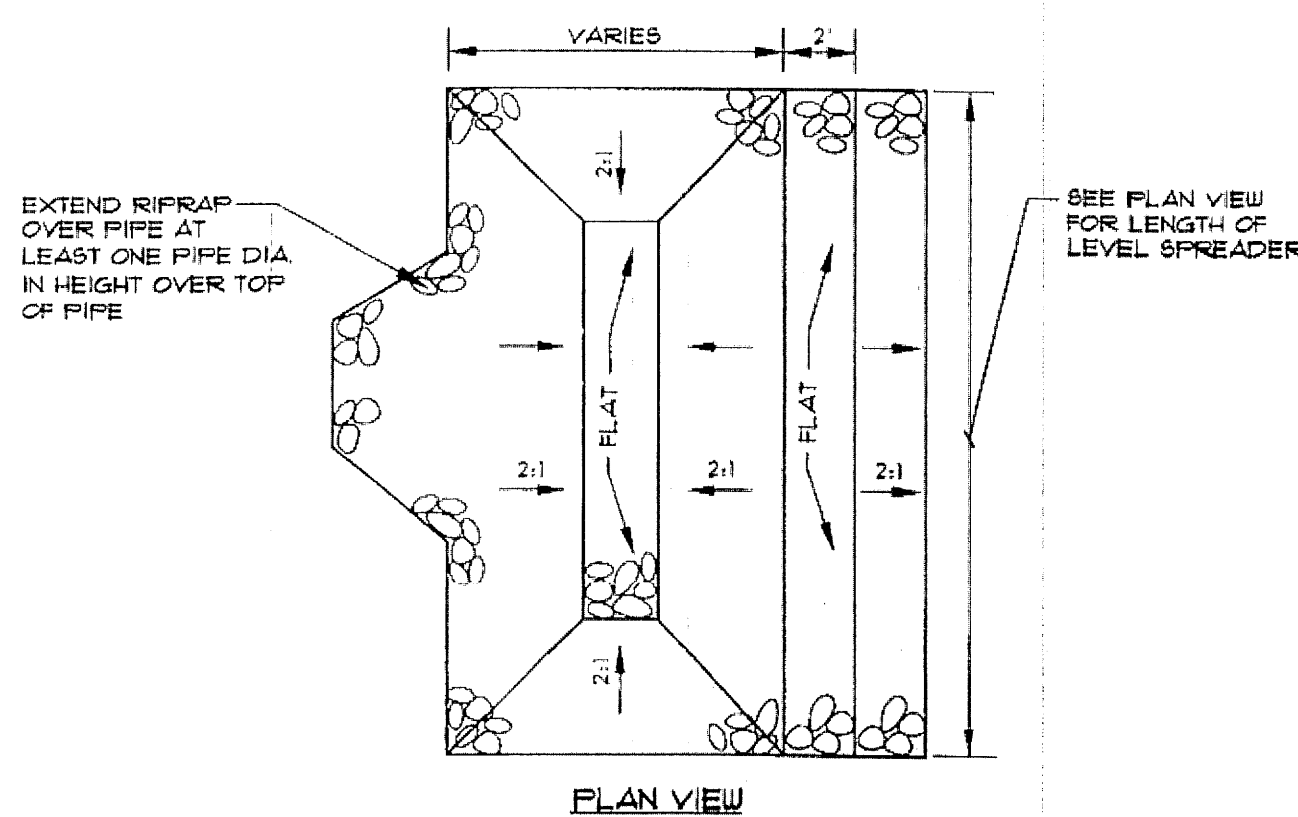
DETAILS OF:
CANADA HILL SUBDIVISION
 CANADA HILL ROAD / HIGHLAND CLIFF ROAD
 WINDHAM, MAINE
FOR:
BLESSED BY FOUR, LLC
 ONE PERCY HANCOCK ROAD
 WINDHAM MAINE 06092

DATE	SCALE
11-14-11	AS SHOWN

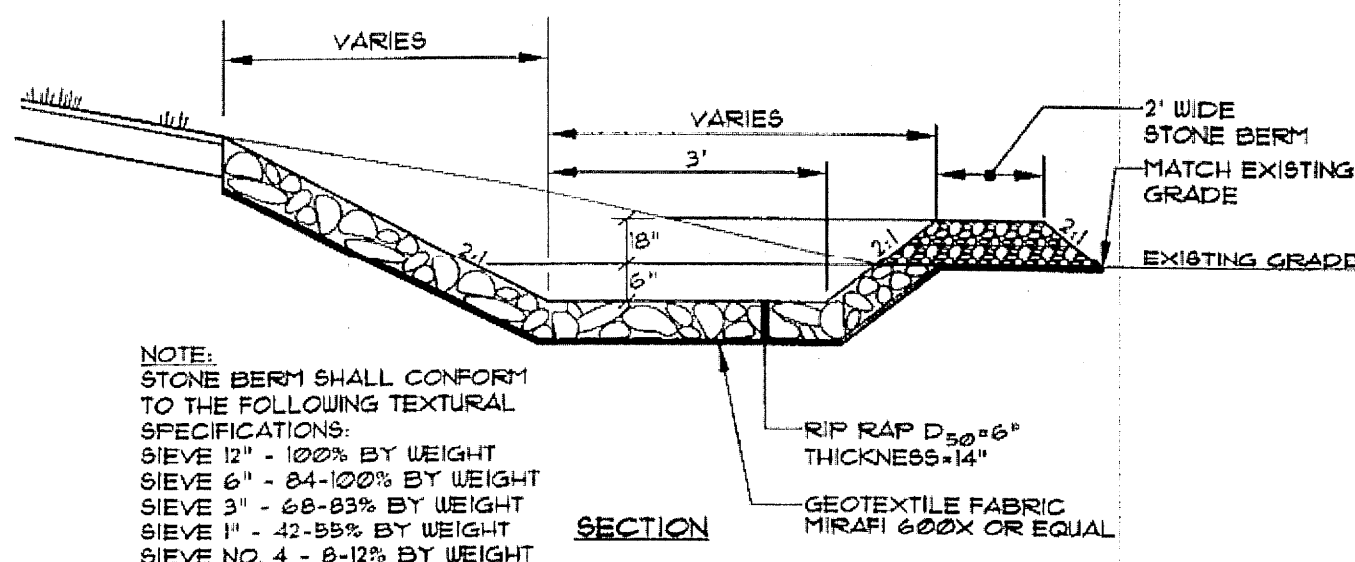


NOTE:
TRANSFORMER PAD AND COVER
TO BE FIBERGLASS MEETING CENTRAL
MAINE POWER SPECIFICATIONS.

TRANSFORMER DETAIL
NOT TO SCALE

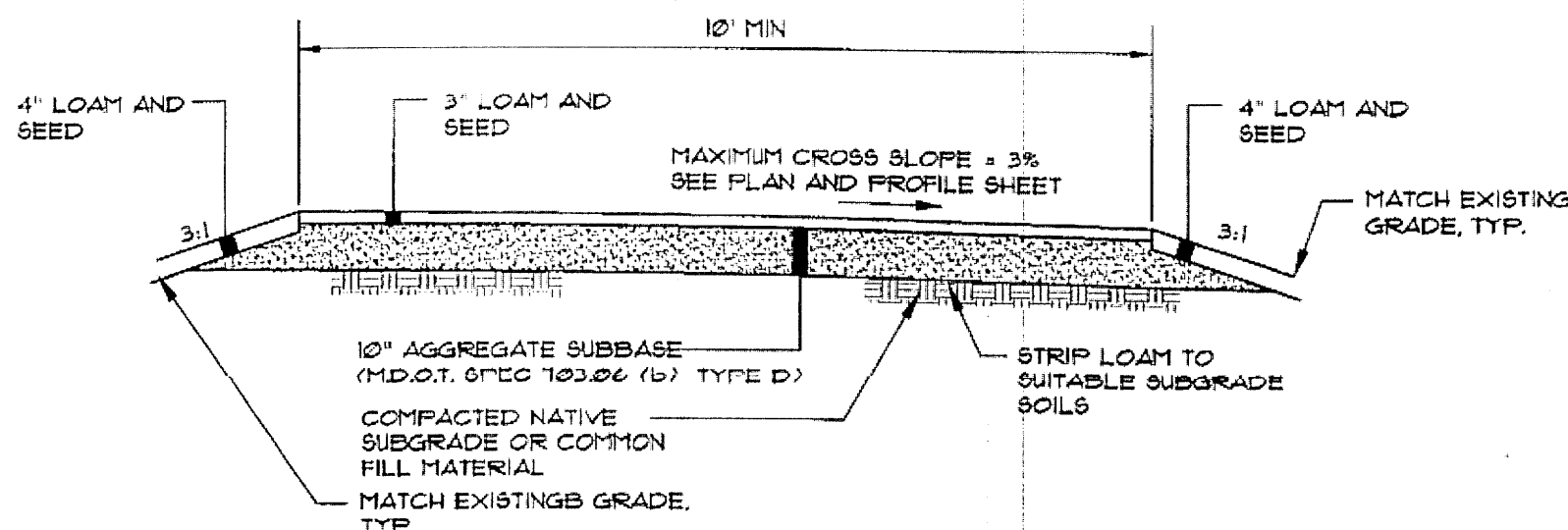


PLAN VIEW

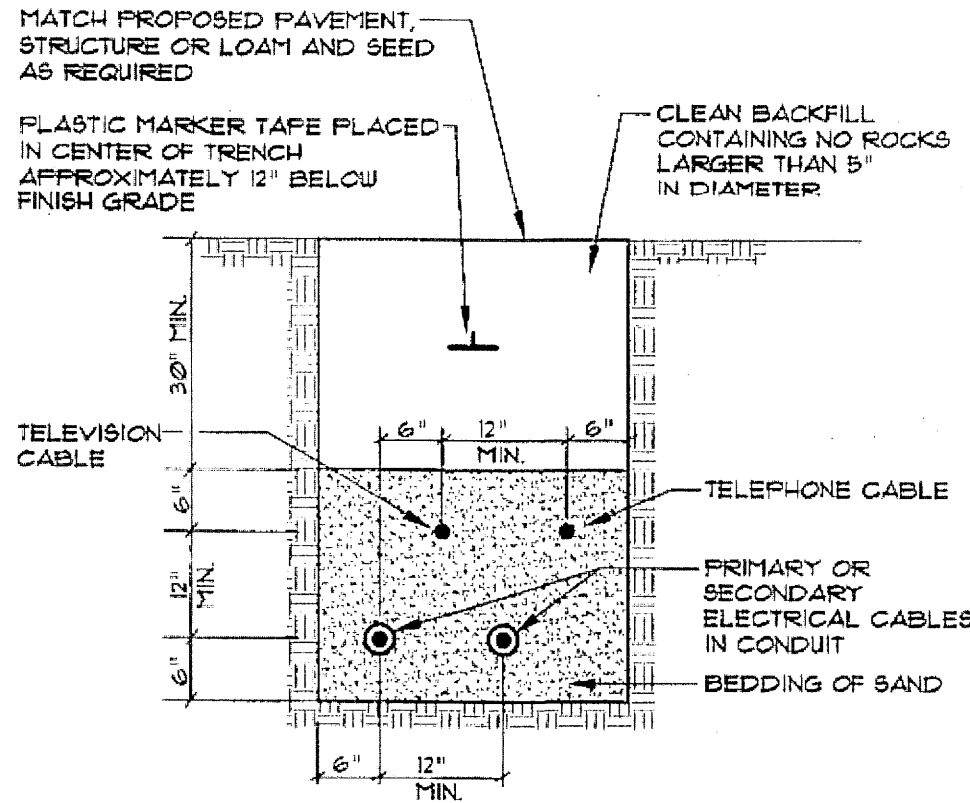


NOTE:
STONE BERM SHALL CONFORM
TO THE FOLLOWING TEXTURAL
SPECIFICATIONS:
SIEVE 12" - 100% BY WEIGHT
SIEVE 6" - 84-100% BY WEIGHT
SIEVE 3" - 68-85% BY WEIGHT
SIEVE 1" - 42-55% BY WEIGHT
SIEVE NO. 4 - 8-12% BY WEIGHT

STONE BERMED LEVEL LIP SPREADER
NOT TO SCALE

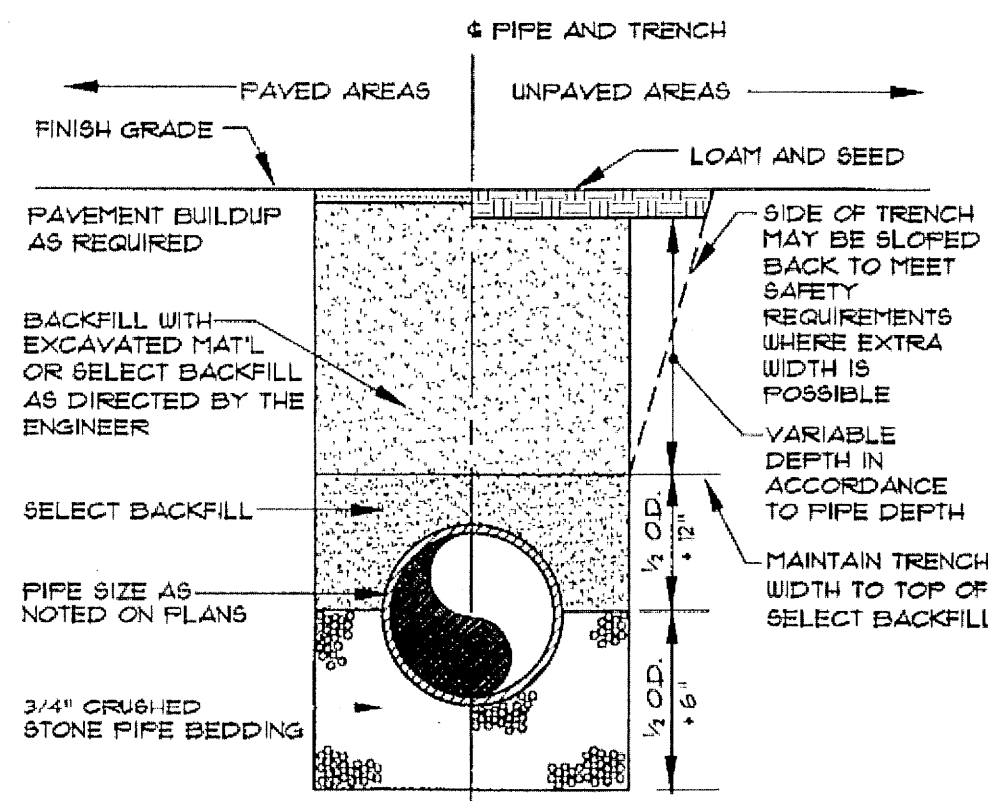


UNPAVED MAINTENANCE ACCESS DRIVE SECTION
NOT TO SCALE

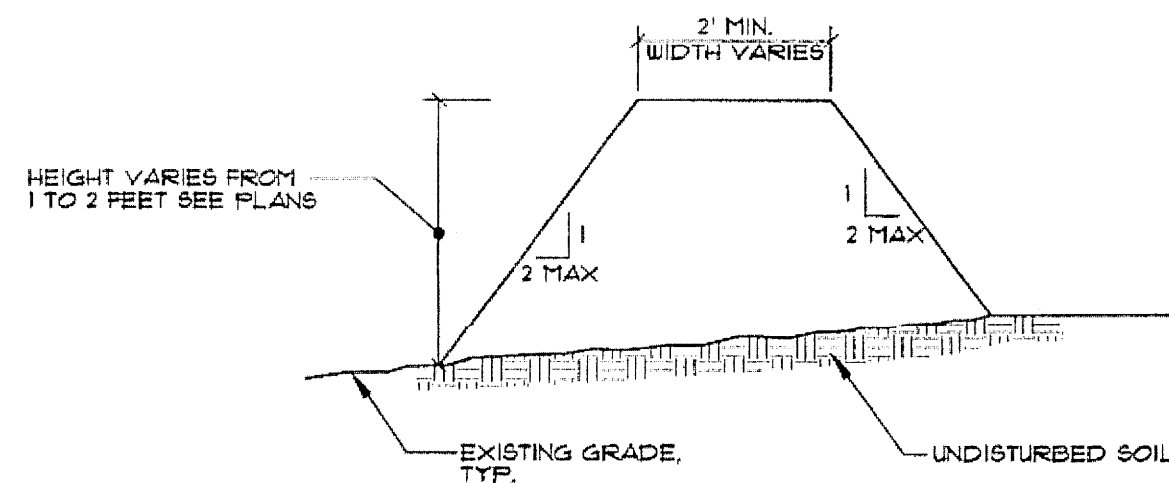


CABLES TO BE ENCASED IN SCHEDULE 40 PVC CONDUIT
WHEN RUN BENEATH PAVED AREAS.

**TYPICAL UNDERGROUND
CABLE INSTALLATION**
NOT TO SCALE



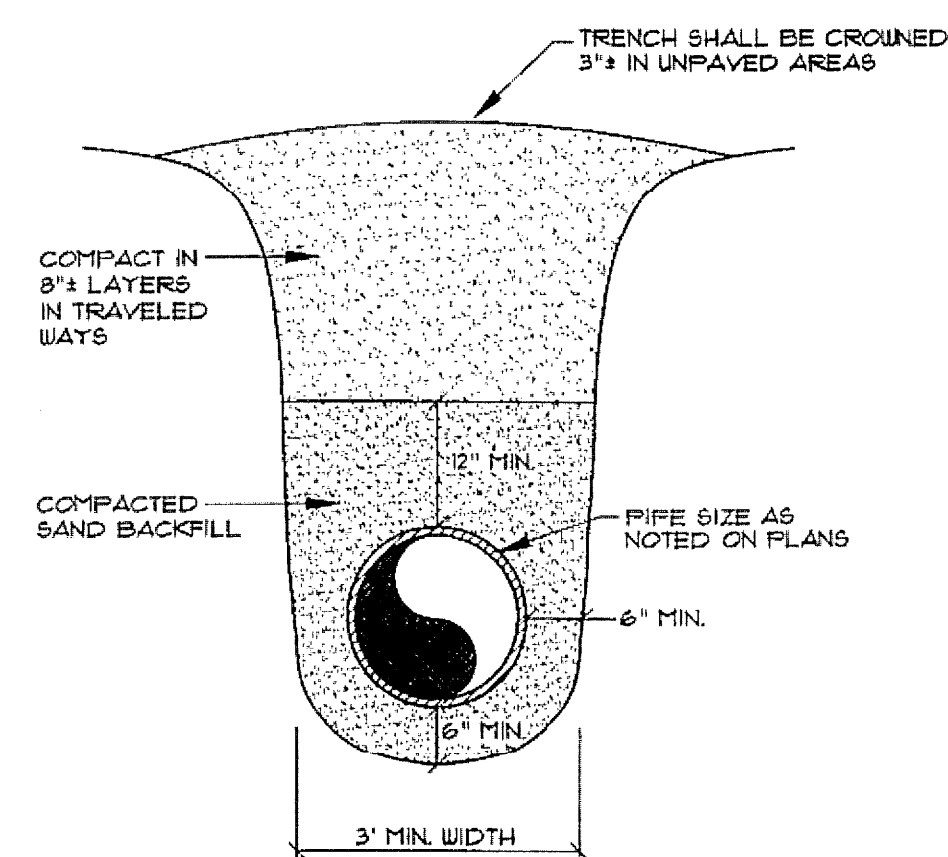
TYPICAL TRENCH SECTION
NOT TO SCALE



EMBANKMENT CONSTRUCTION:

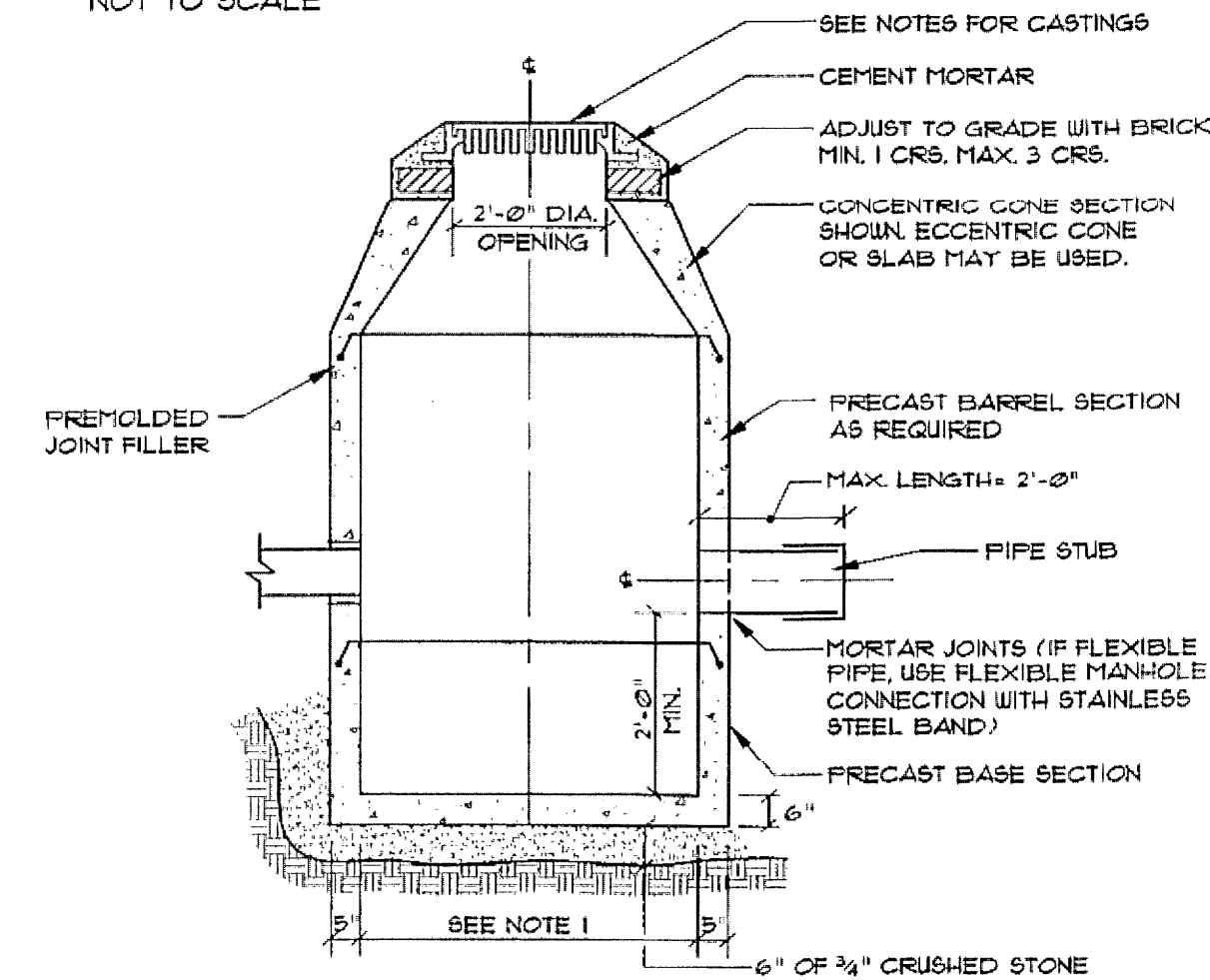
1. CONSTRUCTION MATERIAL SHALL MEET M.D.O.T. SPECIFICATION 103.18.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 92% OF MAX. DENSITY.
3. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.
4. REMOVE ORGANICS FROM BELOW DIVERSION BERM

DIVERSION BERM DETAIL
NOT TO SCALE



NOTE: CLAY DAMS WILL BE INSTALLED IN LEDGE TRENCHES
EVERY 100' IN AREAS OF MORE THAN 3% SLOPE

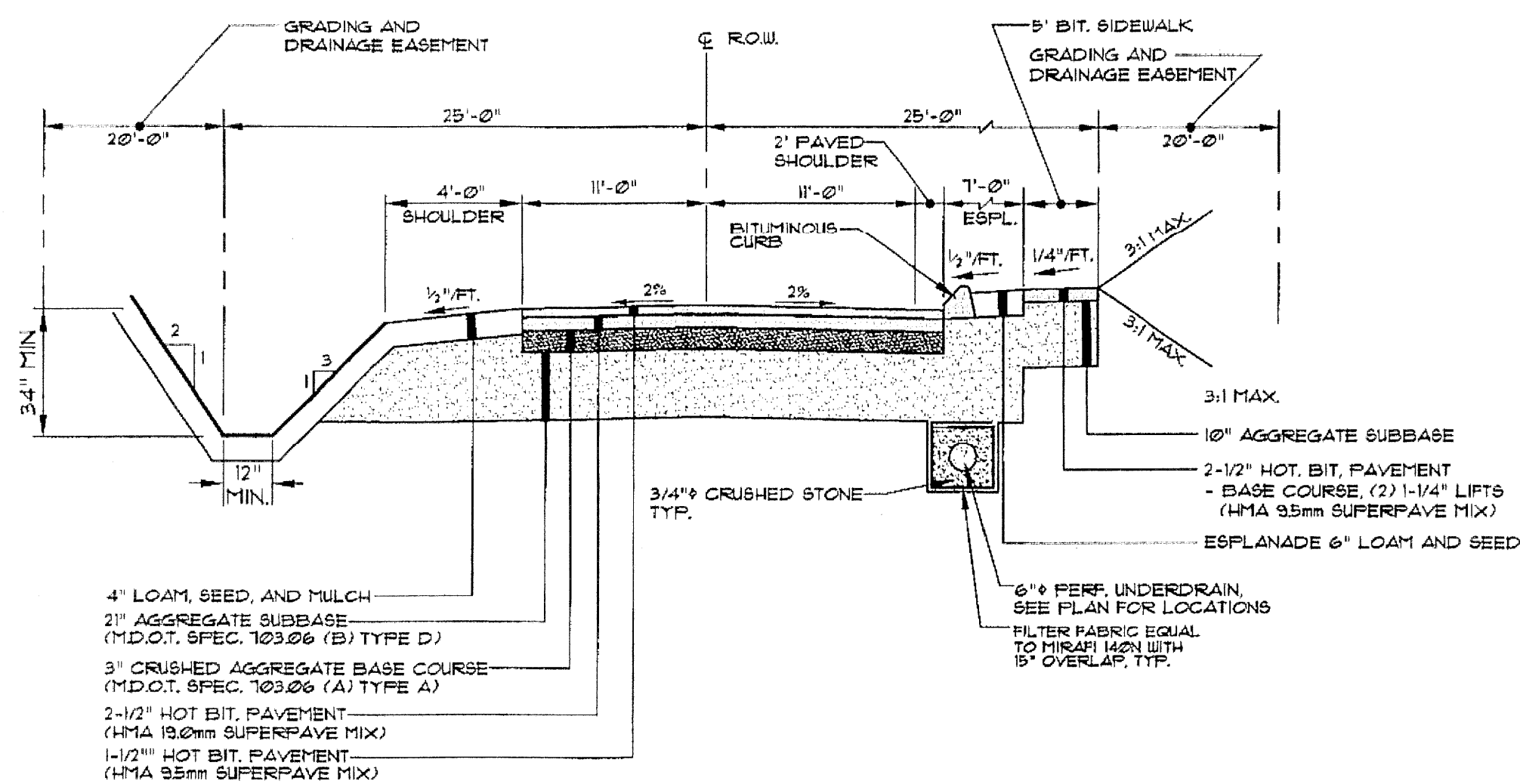
SECTION THROUGH LEDGE TRENCH
NOT TO SCALE



NOTES:

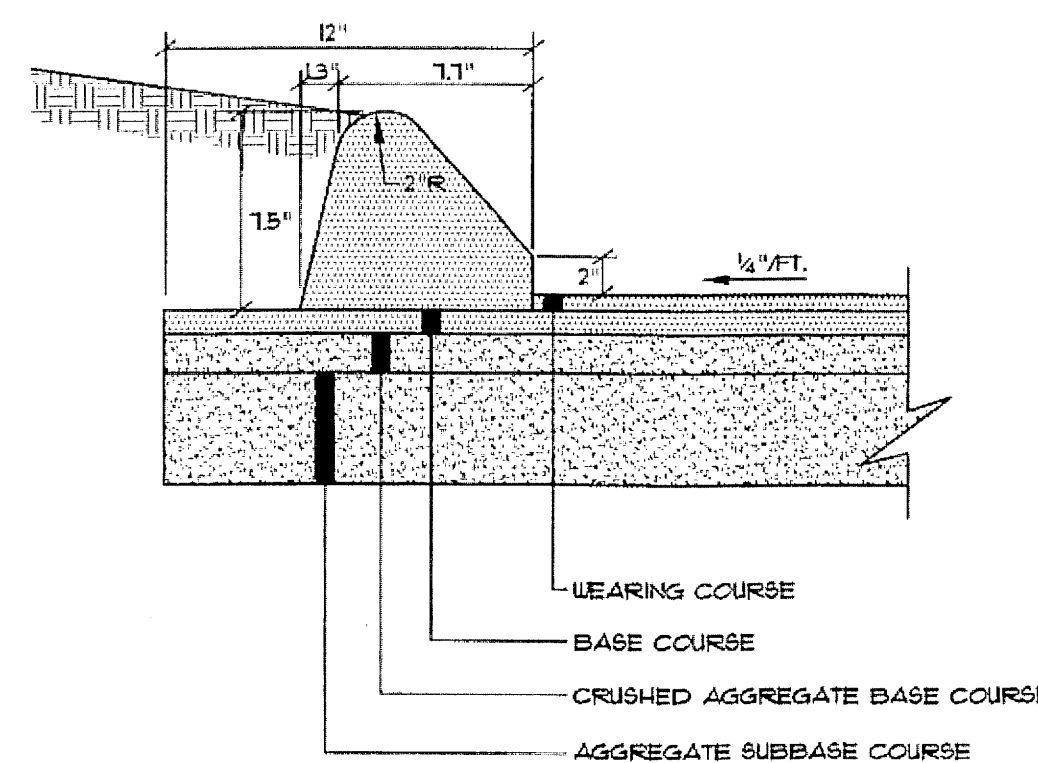
1. 4'-0" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS.
2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
3. PIPE SIZES AND INVERTS AS NOTED ON PLANS.
4. CATCH BASIN FRAME AND GRATE TO BE EITHERIDGE FOUNDRY SA248, TYPE M OR C OR APPROVED EQUAL.
5. DRAINAGE MANHOLE FRAME AND COVER TO BE EITHERIDGE FOUNDRY M2485 OR APPROVED EQUAL. COVER SHALL BE MARKED "DRAIN".

TYPICAL CATCH BASIN
NOT TO SCALE



TYPICAL ROAD SECTION
NOT TO SCALE

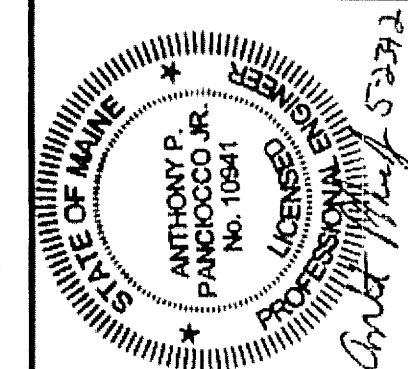
- NOTES:
1. SEE PLAN AND PROFILE FOR UTILITY LOCATIONS AND ADDITIONAL DESIGN REQUIREMENTS.
 2. GENERAL SITE FILL AND SUBGRADE - 92% OF MAX. DRY DENSITY.
 3. SUBBASE AND BASE MATERIAL - 95% OF MAX. DRY DENSITY.
 4. COMPACT IN ACCORDANCE WITH ASTM D1557.
 5. COMMON BORROW SHALL BE PER M.D.O.T. SPEC. 103.18.
 6. SEE GRADING PLANS FOR DITCH GRADING.
 7. ELIMINATE DITCH IN FILL CONDITION.
 8. ROAD CONSTRUCTION SHALL COMPLY WITH SECTION 302 OF THE WINDHAM LANDUSE ORDINANCE AND THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST REVISION.



(SEE TYPICAL ROAD SECTION FOR
MATERIAL SPECIFICATIONS AND DEPTHS)

MOLD 2

BITUMINOUS CURB SECTION
NOT TO SCALE



REV.	DATE	BY	STATUS
1	05-23-12	APP	SUBMITTED FOR FINAL SUBDIVISION PLAN REVIEW
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6	12-27-11	APP	REVISED PER PEER REVIEW COMMENTS
7	12-6-11	APP	SUBMIT FOR PRELIMINARY SUBDIVISION REVIEW
8	12-6-11	APP	STATUS

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PROJECT NO. FIELD BOOK DESIGN CHD DRAWN JRI/APP APP JRI/APP

05304

DETAILS
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DATE	SCALE
11-14-11	AS SHOWN

