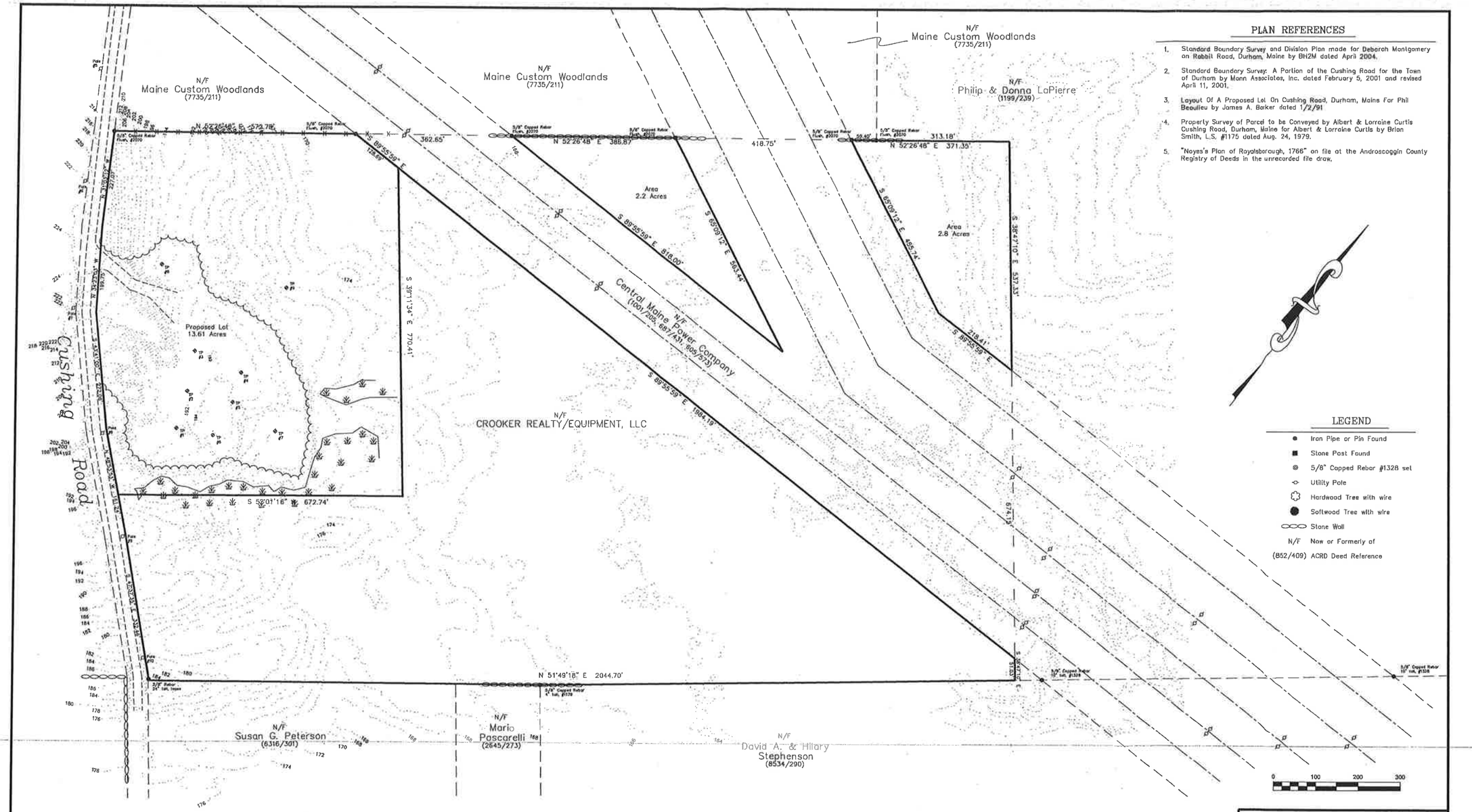


PLAN REFERENCES

1. Standard Boundary Survey and Division Plan made for Deborah Montgomery on Rabbit Road, Durham, Maine by BH2M dated April 2004.
2. Standard Boundary Survey: A Portion of the Cushing Road for the Town of Durham by Mann Associates, Inc. dated February 5, 2001 and revised April 11, 2001.
3. Layout Of A Proposed Lot On Cushing Road, Durham, Maine For Phil Beaulieu by James A. Barker dated 1/2/91
4. Property Survey of Parcel to be Conveyed by Albert & Lorraine Curtis Cushing Road, Durham, Maine for Albert & Lorraine Curtis by Brian Smith, L.S. #1175 dated Aug. 24, 1979.
5. "Noyes's Plan of Royalsborough, 1766" on file at the Androscoggin County Registry of Deeds in the unrecorded file draw.

LEGEND

- Iron Pipe or Pin Found
- Stone Post Found
- 5/8" Capped Rebar #1328 set
- Utility Pole
- Hardwood Tree with wire
- Softwood Tree with wire
- Stone Wall
- N/F Now or Formerly of
- (852/409) ACRD Deed Reference

NOTES

1. Owner of Record is Crooker Realty/Equipment, LLC by deed recorded in the Androscoggin County Registry of Deeds in book 9013 page 157.
2. All bearings are Magnetic of the year 2004 as per the plan referenced in #1 and calculated from angles of an actual on the ground survey.
3. This property is shown as Lot 14 on the Town of Durham Tax Map 8.
4. The Wetlands information on this plan is from Mark Cenci Geologic.
5. The contours shown on this plan are from LIDAR taken from the MGIS website.

STATE OF MAINE
WAYNE T. WOOD
1328
PROFESSIONAL LAND SURVEYOR

Existing Conditions Plan
on
Cushing Road
Durham, Maine
for
Chip Bowie
P.O. Box 358 ~ Topsham, ME 04086

WAYNE WOOD &CO.
Gray, Maine 04039
(207)657-3330

Drwn. By: WTW/KW	Date June 2018
Scale: 1" = 100'	Job No. 216171
Dwg. No. 1 of 1	
Bk. No.	

STORM WATER DETENTION POND AND SEDIMENT POND 27,880 C.F. CAPACITY

OUTLET STRUCTURE

35' LEVEL SPREADER

RIP-RAP

PRE-SEDIMENT POND

RIP-RAP

DRY HYDRANT

5/8" Capped Rebar Flush, #2070

WOODED BUFFER

STORAGE & PROCESSING

TREE LENGTH HARDWOOD

FINISHED GRINDINGS

FINISHED LOAM

LOAM & GRUBBING

2% SLOPE

2% SLOPE

TRUCK & EQUIPMENT PARKING

CLEAN WOOD STUMPS BRUSH

FINISHED GRUBBINGS

30' X 15' OFFICE

60' X 30' GARAGE

LEACH FIELD

20' X 20' FUEL STORAGE

R100'

WELL

COMPOST (ON 100'WX200'L ASPHALT OR CONCRETE PAD)

RIP-RAP

25' LEVEL SPREADER

0 30' 60'

SCALE: 1" = 30'-0"

2:1 SLOPE

2% SLOPE

2% SLOPE

GATE

CUSHING ROAD

PLUNGE POOL

No.	Revisions	Date	App'd.

BOWIE'S ORGANICS

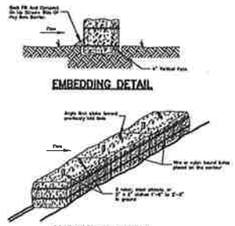
CUSHING RD. DURHAM, MAINE

STORMWATER MANAGEMENT SITE PLAN

© AEHodsdon CONSULTING ENGINEERS
10 Common St. Waterville, Me. 04901 (207) 873-5164

Drawn By:	GL	Scale:	AS SHOWN
Checked By:	GL	Date:	10/24/2018
Approved By:	AEH	Date:	10/24/2018
File No.	30-18-DURHAM.DWG	Project No.	30-18

Sheet No. 1 Of 2

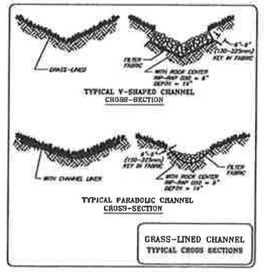


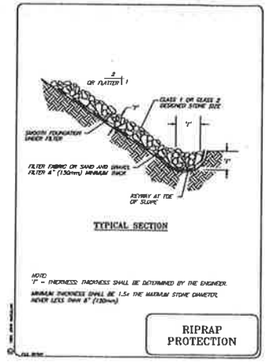
CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Lath twine shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or rebar driven through the bale. 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.

Straw Or Hay Bale Barrier Detail

Not To Scale





STABILIZATION NOTES:

Waterways Shall Be Stabilized In Accordance With The Appropriate Standard And Specification For Rip-Rap Swales.

1. Shall Be Removed And Disposed Of So As Not To Interfere With The Proper Functioning Of The Waterway.
2. The Waterway Shall Be Excavated Or Shaped To Line, Grade, And Cross Section As Required To Meet The Criteria Specified Herein. The Area Of Fill Shall Be Free Of Projections Or Other Irregularities Which Will Impede Normal Flow.
3. Fills Shall Be Compacted As Needed To Prevent Unequal Settlement That Would Cause Damage In the Completed Waterway.
4. All Earth removed and Not Needed In Construction Shall Be Spread Or Disposed Of So That It will Not Interfere With the Functioning Of The Waterway.
5. Construction Operations Shall Be Carried Out In Such A Manner That Erosion And Air and Water Pollution Will Be Minimized. State and Local Laws Will Be Complied With.
6. Stabilization Shall Be Done According To The Appropriate Standard And Specifications For Rip-rap Swales.

All Disturbed Areas To Be Remulched As Follows:

Hay Mulch	2 Bales/1000 sq. ft.
Ground Limestone	138 lb./1000 sq. ft.
Fertilizer 10-20-20	18.4 lb./1000 sq. ft.

SEED MIX
See Specifications

Erosion Control Notes

1. Install silt fence as shown on the drawings and at the limit of clearing for all site work and above all water courses to protect against erosion from construction. Install along contour with guidelines provided in latest edition of MDEP BMP manual and in accordance with details. Maintain silt fence until disturbed areas have established vegetative cover.

2. Construct a construction entrance at the intersection of the project entrance and the Town Road to limit the amount of vehicle tracking from the site during construction.

3. Prior to construction the contractor shall prepare and submit a schedule and marked up plan indicating the progress of the work and the timing for stabilizing disturbed areas. Special attention shall be given to the 14-day limit between disturbance and stabilization.

4. All disturbed areas shall be stabilized or provided with temporary erosion control within 14-days of disturbance. During winter conditions, all disturbed areas shall be stabilized with 7-days of disturbance.

5. All disturbed areas within 100 feet of any protected water course shall be stabilized or provided with temporary erosion control within 48-hours of disturbance.

6. Temporary erosion control shall include erosion control blankets or mulch. Apply hay or straw mulch at a rate of 2 square bales per 1,000 sq. ft. to form a continuous cover over bare soil. Maintain mulch cover by welting or placing netting over mulch.

7. Erosion control blanket shall be used in all ditches and on disturbed slopes in excess of 15% grade.

8. All disturbed areas that do not receive final seeding by September 15th of the construction year shall receive a winter rye seeding at the rate of 3 lbs. per 1,000 sq. ft. A heavy layer (4") of hay or straw mulch shall also be applied.

9. All disturbed areas shall receive 4" of loam. The loam shall be seeded, fertilized and mulched at the rates shown in the notes.

10. All erosion control devices, check dams, silt fence, etc. shall remain in place and be maintained until grass has become 85% established.

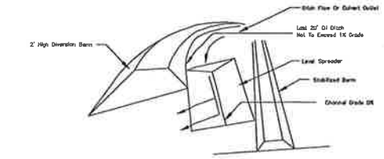
11. Additional erosion control may be required by the municipality and/or the Maine DEP to stop soil from leaving the site. Any additional erosion control required will be the responsibility of the contractor.

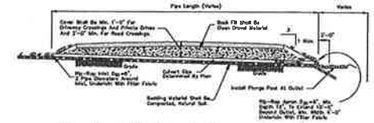
12. The contractor shall inspect and repair all erosion control measures after each rainfall and shall keep a log of these events.

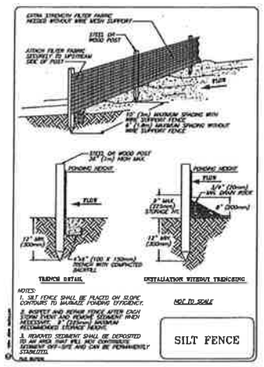
13. The contractor shall repair and re-seed all eroded areas within 1-year of the date of substantial completion of the work. Repair work shall be completed within 14-days of notification.

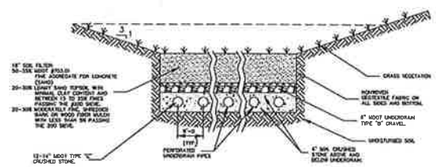
Level Spreader Notes:

1. LEVEL SPREADERS SHALL BE INSTALLED WITH A LEVEL INSTRUMENT. CONSTRUCT LEVEL LIP TO OR GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL).
2. SELECT GEOTEXTILE FABRIC BASED ON UNDISTURBED SOILS (SANDS, SILTS, CLAYS, ETC.)
3. PLACE 6" LAYER OF UNIFORMLY GRADED STONE 3" TO 5" IN DIA. RAKE TO FORM A SMOOTH UNIFORM SURFACE. DO NOT FILL VOIDS IN STONE.
4. LEVEL LIP SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE ENTERING THE LEVEL SPREADER.
5. STORM RUN-OFF CONVEYED TO SHEET FLOW ACROSS OUTLET APRON SHALL FLOW ONTO UNDISTURBED AREAS. RUN-OFF SHALL NOT BE RECONCENTRATED ABBREVIATELY BELOW THE POINT OF DISCHARGE.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.
7. CONSTRUCTION OF LEVEL SPREADER SHALL BE FROM UPHILL SIDE ONLY. LEVEL LIP AND AREA BELOW SPREADER SHALL BE AT EXISTING GRADES & UNDISTURBED BY EARTHWORK OR EQUIPMENT.
8. CONSTRUCT SPREADER WITH LIP AT ELEVATION INDICATED ON PLANS.





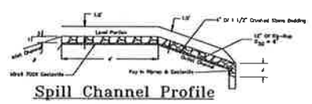




(OPTIONAL) FILTER SWALE – CROSS SECTION

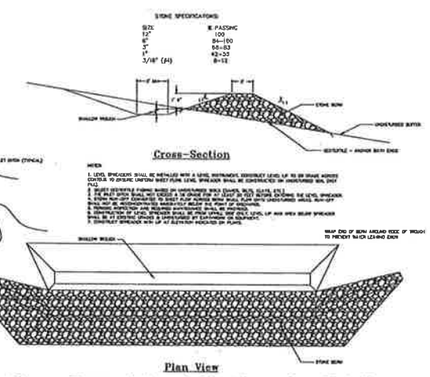
Not To Scale

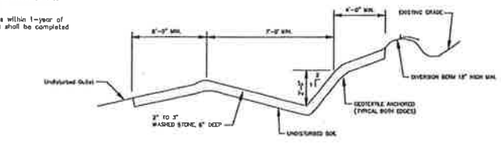
NOTES:
1. Piping and filter media shall be installed only after the site is completely stabilized with permanent measures
2. Seed Mix for stabilization shall be a mix of:
   Creeping Red Fescue – 0.48 lb./1,000 sf.
   Red Top – 0.05 lb./1,000 sf.
   Tall Fescue – 0.46 lb. /1,000 sf.



Spill Channel Profile

Not To Scale





Section A-A

Level Spreader Detail

Not To Scale

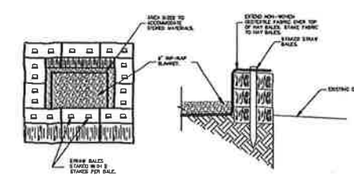
Spill Channel
Level And Outlet Cross Section

Not To Scale

Dry Hydrant Detail

Not To Scale

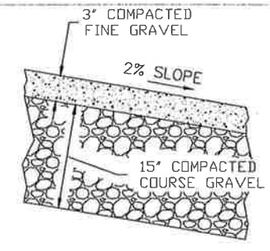
Notes:
1. The Structure Shall Be Inspected After Each Rain And Repairs Made As Needed.
2. Sediment Shall Be Removed And The Trap Restored To Its Original Dimensions When The Sediment Has Accumulated To 1/2 The Design Depth Of The Trap. Removed Sediment Must Be Deposited In A Suitable Area In Such A Manner That Will Not Erode.
3. Structure Shall Be Removed And The Area Stabilized When The Remaining Drainage Area Has Been Properly Stabilized.



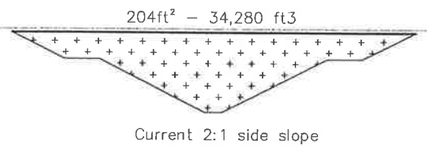
Temporary Hay Bale Sediment Filter Detail

Not To Scale

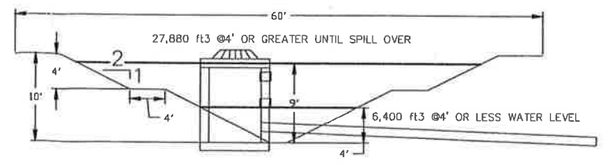
WATER TABLE LEVELS	
TEST PIT #	DEPTH TO WATER TABLE
1	52'
2	>84'
3	>50'
4	>48'
5	>60'
6	>48'
7	>48'
8	>48'
9	>84'



TYPICAL GRADING FOR WORK SURFACE



SEDIMENT POND SECTION VIEW



No.	Revisions	Date	App'd.
1	WATER TABLE LEVELS & TYPICAL GRADING DETAIL ADDED	11/06/18	AEH

BOWIE'S ORGANICS

CUSHING RD. DURHAM, MAINE

STORMWATER DETAILS

STATE OF MAINE ALBERTE E. HODSDON III No. 2909 LICENSED PROFESSIONAL ENGINEER

© AEHodsdon CONSULTING ENGINEERS
10 Common St. Waterville, Me. 04901 (207) 873-5164

Drawn By:	GL	Scale:	AS SHOWN
Checked By:	GL	Date:	10/24/2018
Approved By:	AEH	Date:	10/24/2018
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Sheet No. 2 of 2