Acheron

Engineering, Environmental & Geologic Consultants

www.AcheronEngineering.com

January 28, 2019

Amanda Lessard, Planner Town of Windham 8 School Road Windham, Maine 04062

RE: Final Major Subdivision Application Durant Homestead, Residential Subdivision.

Dear, Amanda

Please find attached five copies of the Final Major Subdivision Permit Application for the Durant Homestead Subdivision project, located on Chute Road. Included with the executed application is a \$50.00 application fee, Maine General Permit authorization letter, NAE-2018-02825 from the U.S. Corps of Engineers, Maine Department of Environmental Protection (MEDEP) Order #L-23215-L3-D-N/L-23215-TC-E-N dated January 25, 2019 granting project approval under the Site Location of Development Act and Natural Resources Protection Act, statement from Maine Inland Fisheries and Wildlife and the sealed Final Subdivision Plan.

Since preliminary approval by the Windham Planning Board, Matt Hancock Properties received additional review comments from the MEDEP. Stormwater, comments were received on October 11, 2018 from the Division of Watershed Management and geology comments from the Environmental Geology Unit were received on November 7, 2018. MEDEP review comments, Matt Hancock properties response to comments and a revised set of plans incorporating the required changes are included in the application.

Please let me know if you have any questions or concerns

Sincerely, Acheron

Kirk J. Ball, PE

March

Enclosure: Final Major Subdivision Application (5)

Cc: Matt Hancock, MHP David Fowler, MHP

1

TOWN OF WINDHAM, MAINE

FINAL MAJOR SUBDIVISION APPLICATION FOR **DURANT HOMESTEAD SUBDIVISION**

SUBMITTED BY:

MATT HANCOCK PROPERTIES, LLC PO Box 295 CASCO, MAINE 04015

WITH ASSISTANCE BY:

Acheron Engineering Services.

Engineering, Environmental & Geologic Consultants www.AcheronEngineering.com

147 Main Street 24466 Powell Road Newport, Maine 04953 Brooksville, Florida 34602 (207) 368-5700 (352) 796-6236

> **SUBMITTAL DATE: JANUARY**, 2019

Mandatory Written Information

Executed Application Form

Evidence Escrow >25% of Initial Preliminary Plan Deposit

Copies of MEDEP and ACOE Approvals

Correspondence with MEDEP

Maine DIFW Statement

TOWN OF WINDHAM MAJOR SUBDIVISION APPLICATION

Final Plan

(Section 910 – Subdivision Review, Submission Requirements)

The original signed copy of this application must be accompanied by:

- The required application and review escrow fees,
- Five (5) collated submission packets, which must include
 - o Full size paper copies of each plan, map, or drawing, and
 - o A bound copy of the required information found in Section 910 of the Land Use Ordinance.
 - The checklist below offers a brief description of these requirements for the purpose of determining the completeness of a submission. Please use the Ordinance for assembling the submission packets.
- Electronic submission in PDF format of:
 - o All plans, maps, and drawings.
 - These may be submitted as a single PDF file or a PDF for each sheet in the plan set.
 - A PDF of the required information found in Section 910 of the Land Use Ordinance

The submission deadline for Final plans is three (3) weeks before the Planning Board meeting for which it will be scheduled.

Applicants are strongly encouraged to schedule a brief submission meeting with Planning Staff, to walk through the application checklist at the time a Planning Board submission is made. This will allow applicants to receive a determination of completeness, or a punch list of outstanding items, at the time a submission is made.

If you have questions about the submission requirements, please contact:

Windham Planning Department (207) 894-5960, ext. 2
Amanda Lessard, Planner allessard@windhammaine.us
Ben Smith, Planning Director bwsmith@windhammaine.us

Final Plan - Major Subdivision

1 of 3 Revised 12/27/17

Project Name: Durant Homestead Subdivision	
Tax Map: 6 Lot: 25	
Number of lots/dwelling units: 25 Estimated road length: 2,500 feet	
Is the total disturbance proposed > 1 acre?	
Contact Information 1. Applicant	
Name: Matt Hancock Properties, LLC	
Mailing Address: PO Box 295, Casco, Maine 04015	
Telephone: 207-655-5886 Fax: E-mail: matt@mtabram.com	
2. Record owner of property X (Check here if same as applicant) Name:	
Mailing Address:	
3. Contact Person/Agent (if completed and signed by applicant's agent, provide written documentation of authority to act on behalf of applicant) Name: Kirk Ball, PE Company Name: Acheron Engineering Services Mailing Address: 147 Main Street, Newport, Maine 04953 Telephone: 207-368-5700 Fax: 207-368-5120 E-mail: kball@acheronengineering.com	com
I certify all the information in this application form and accompanying materials is true and accurate to the bost my knowledge. O1/28/2019 Date	est
organica /	

Applican t Staff

2 of 3 Revised 12/27/17

	Mandatory Written Information			
1	A fully executed application form	X		
2	Evidence that the escrow account balance is greater than 25% of the initial Preliminary Plan deposit	X		
3	If public open space is to be provided, written offers of cession to the Town of Windham shall be provided	N/A		
4	If the subdivider reserves title to spaces within the subdivision, provide copies of agreements or other documents.	N/A		
5	Copies of any outside agency approvals	X		
6	Statement from the Maine Inland Fisheries & Wildlife that no significant wildlife habitat exists on the site	X		
7	Digital transfer of subdivision plan data (GIS format)			
В.	Mandatory Plan Information			
1	All information presented on the Preliminary Plan, and any amendments suggested or required by the Board.	X		
2	Map and lot numbers for all lots as assigned by the Town of Windham Assessing Department	X		
3	Seal of the Maine Licensed Professional who prepared the plan	X		
4	All public open space for which offers of cession are made by the subdivider and those spaces to which title is reserved by the subdivider	N/A		
5	Location of all permanent monuments	X		
5				
Flec	tronic Submission	X		

3 of 3 Revised 12/27/17

kball@acheronengineering.com

From: Amanda L. Lessard <allessard@windhammaine.us>

Sent: Tuesday, December 04, 2018 6:27 PM **To:** 'kball@acheronengineering.com'

Cc: 'Matt Hancock'; 'David Fowler'; bgourley@acheronengineering.com; 'Adam Robinson'; Kara Taylor

Subject: RE: Durant Homestead, Major Subdivision, Final Plan Application

Kirk,

Sorry for the slow response. To answer your questions:

- There is a sufficient escrow balance that we will not require payment of the final plan review escrow fee. Note that where your preliminary plan application was reduced by 1 lot, we can credit \$300 towards your final plan application fee, so that the final plan fee will be \$50.
- Kara Taylor in the Assessing Department is the best contact to get map and lot numbers for the project. I've copied her on this email.

Amanda

Amanda Lessard, Planner Town of Windham 8 School Road Windham, ME 04062

office: (207) 894-5900 x 6121

cell: (207) 400-7618 fax: (207) 892-1916 www.windhammaine.us

NOTICE: Under Maine's Freedom of Access ("Right to Know") law, documents – including emails – in the possession of public officials about town business are considered public records. This means if anyone asks to see it, we are required to provide it. There are very few exceptions. We welcome citizen comments and want to hear from our constituents, but please keep in mind that what you write in an email is not private and will be made available to any interested party.

From: kball@acheronengineering.com < kball@acheronengineering.com >

Sent: Monday, November 26, 2018 1:46 PM

To: Amanda L. Lessard <allessard@windhammaine.us>

Cc: 'Matt Hancock' <matt@mtabram.com>; 'David Fowler' <dfowler@nextphaseenergyservices.com>;

bgourley@acheronengineering.com; 'Adam Robinson' <arobinson@wemapit.com>

Subject: Durant Homestead, Major Subdivision, Final Plan Application

Amanda, good afternoon.

We hope that you had an enjoyable holiday!

Couple of quick questions for the Durant Homestead Final Plan Application. Can you provide the current escrow balance for the project to confirm if there is more than \$1,000 (25% of initial escrow payment)? Next, can you provide map and lot numbers for the project? If not who should we contact in the assessing department?

Thanks Kirk

Kirk Ball, PE Acheron Engineering 207-368-5700

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DEPARTMENT OF THE ARMY

NEW ENGLAND DISTRICT, CORPS OF ENGINEERS 696 VIRGINIA ROAD CONCORD, MASSACHUSETTS 01742-2751

MAINE GENERAL PERMIT (GP) **AUTHORIZATION LETTER AND SCREENING SUMMARY**

MATT HANCOCK	CORRO REDIGIT #	NAE 2040 02025
MATT HANCOCK PROPERTIES, LLC	CORPS PERMIT #_	NAE-2018-02825 Non-screen
P.O. BOX 295	CORPS GP ID#	NRPA
CASCO, MAINE 04015	STATE ID#	NRPA
DESCRIPTION OF WORK:		•
Place permanent fill in freshwater wetlands off Chute Road at	Windham Maine in order to	construct on access road
and associated infrastructure for a 25-lot single-family subdiv	vision. The project will result	in approximately 14 560
s.f. of permanent wetland impact. This work is shown on the	attached plans entitled "SITE	I OCATION MAD DIDANT
HOMESTEAD" in one sheet dated "8-01-18", "PROPOSED SIT		
01-18" and "SECTIONS DURANT HOMESTEAD" in one sheet		ad in six sheets dated o-
See ADDITIONAL CONDITIONS attached.	dated 0-01-10.	
LAT/LONG COORDINATES : 43,744633° N -70.4°	12334° W USGS QUA	D: GORHAM, ME
I. CORPS DETERMINATION: Based on our review of the information you provided, we have determined that waters and wetlands of the United States. Your work is therefore authorized Maine General Permit which can be found at: www.nae.usace.army.mil/Portals/74/docs/regulatory/StateGeneralPermits.take any further action on this project. You must perform the activity authorized herein in compliance with all the terms and any conditions placed on the State 401 Water Quality Certification including including the GP conditions beginning on page 5, to familiarize yourself with its requirements; therefore you should be certain that whoever does the work fully conditions of this authorization with your contractor to ensure the contractor car If you change the plans or construction methods for work within our jurisdiction,	ME/Maine General Permit 2015. s and conditions of the GP [including any required mitigation]. Please recontents. You are responsible for counderstands all of the conditions. You accomplish the work in a manner the	eers under the Federal Permit, the odf Accordingly, we do not plan to any attached Additional Conditions view the enclosed GP carefully, omplying with all of the GP ou may wish to discuss the last conforms to all requirements.
authorization. This office must approve any changes before you undertake the	m.	scuss modification of this
Condition 37 of the GP (page 16) provides one year for completion of work that of the GP on October 13, 2020. You will need to apply for reauthorization for an 2021.	has commenced or is under contractive work within Corps jurisdiction that	t to commence prior to the expiration is not completed by October 13,
This authorization presumes the work shown on your plans noted above is in was submit a request for an approved jurisdictional determination in writing to the ur	aters of the U.S. Should you desire to desire to desire to designed.	to appeal our jurisdiction, please
No work may be started unless and until all other required local, State and Fed	eral licenses and permits have been	obtained. This includes but is not

Condition 37 of the GP (page 16) provides one year for completion of work that has comm of the GP on October 13, 2020. You will need to apply for reauthorization for any work will 2021. This authorization presumes the work shown on your plans noted above is in waters of the submit a request for an approved jurisdictional determination in writing to the undersigned No work may be started unless and until all other required local, State and Federal licensi limited to a Flood Hazard Development Permit issued by the town if necessary. II. STATE ACTIONS: PENDING [X], ISSUED [], DENIED [] DATE_ APPLICATION TYPE: PBR: __, TIER 1: _X _, TIER 2: ___, TIER 3: __, LURC: ____ DMR LEASE: ____ NA: ____ **III. FEDERAL ACTIONS:** JOINT PROCESSING MEETING: non-screen LEVEL OF REVIEW: CATEGORY 1: X CATEGORY 2: AUTHORITY (Based on a review of plans and/or State/Federal applications): SEC 10 , 404 X 10/404 EXCLUSIONS: The exclusionary criteria identified in the general permit do not apply to this project. FEDERAL RESOURCE AGENCY OBJECTIONS: EPA_n/a _, USF&WS_n/a _, NMFS_n/a If you have any questions on this matter, please contact my staff at 978-318-8676 at our Augusta, Maine Project Office. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0 Chil

COLIN M. GREENAN **PROJECT MANAGER** MAINE PROJECT OFFICE FRANK J. DEL GIUDICE

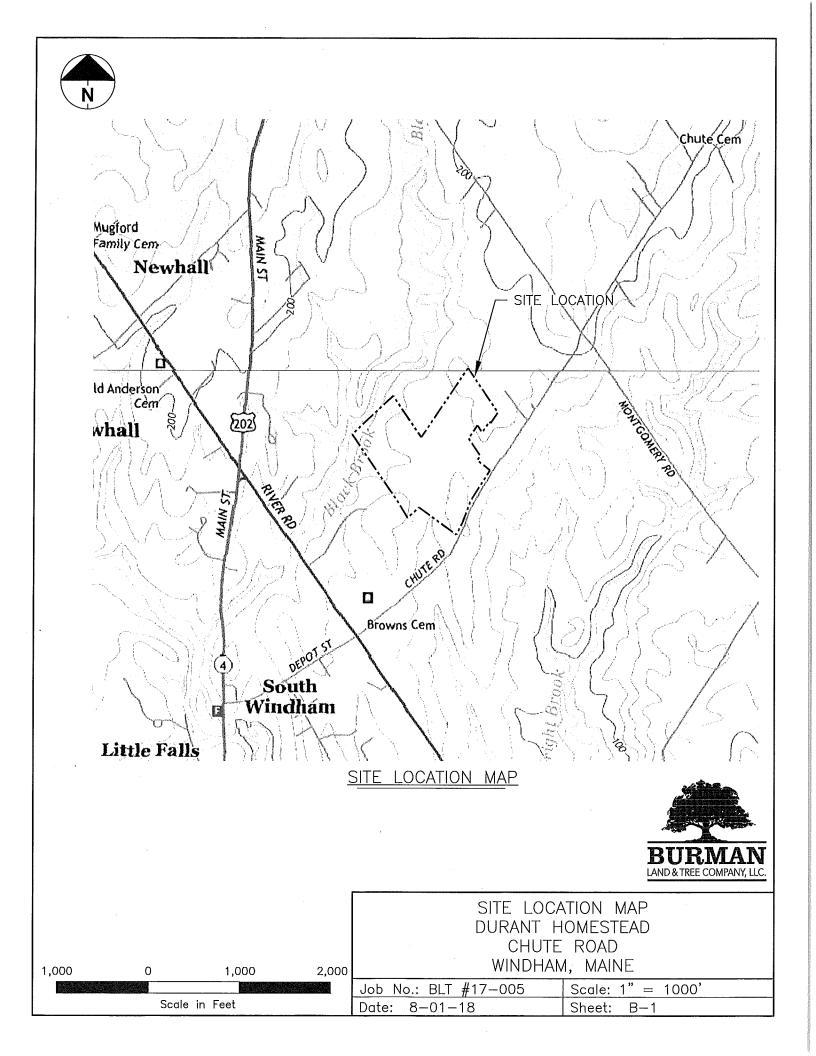
CHIEF, PERMITS & ENFORCEMENT BRANCH

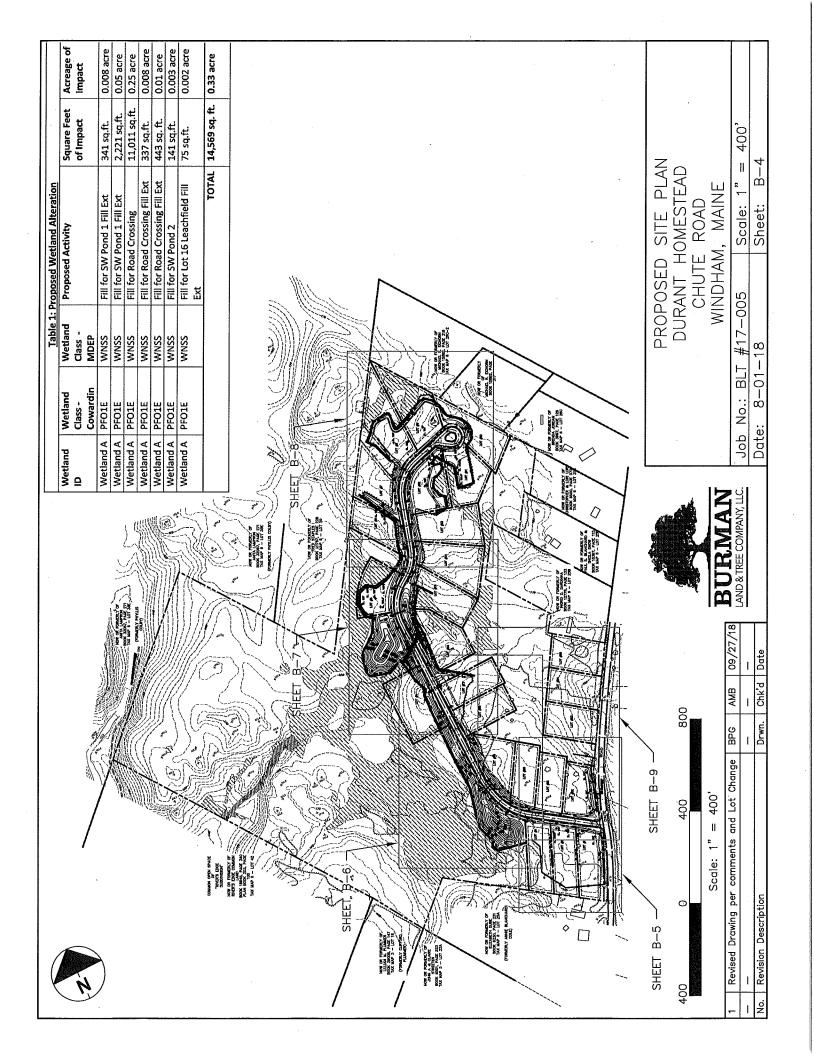
REGULATORY DIVISION

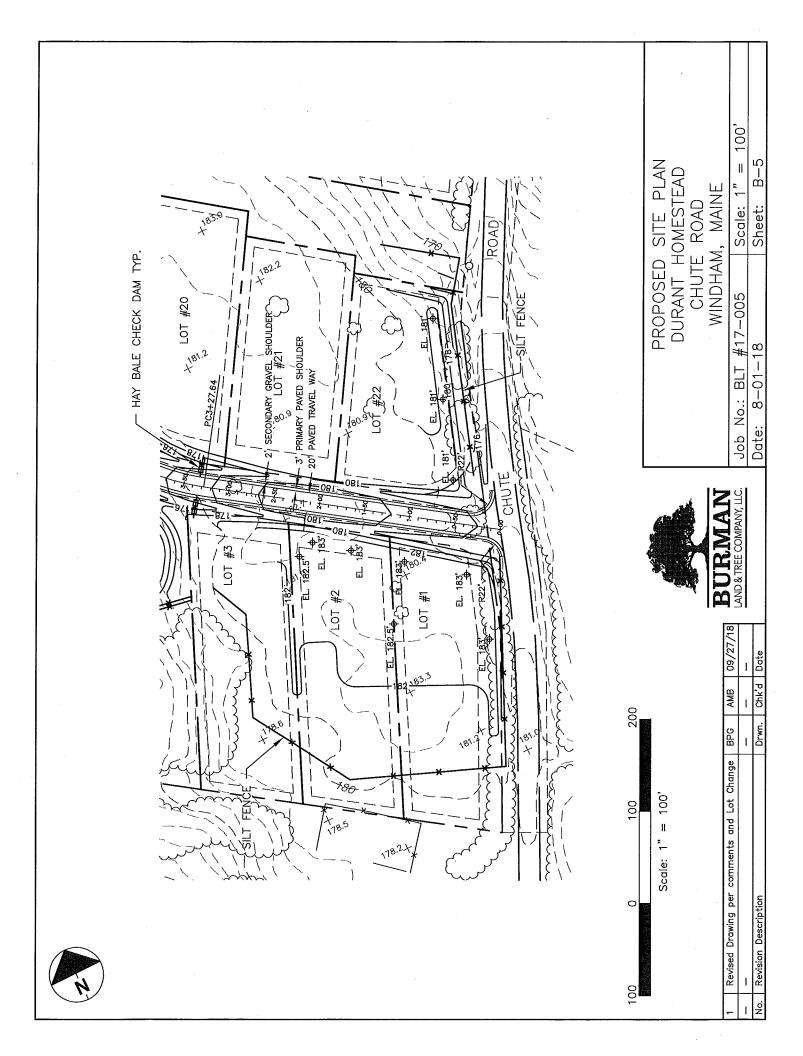


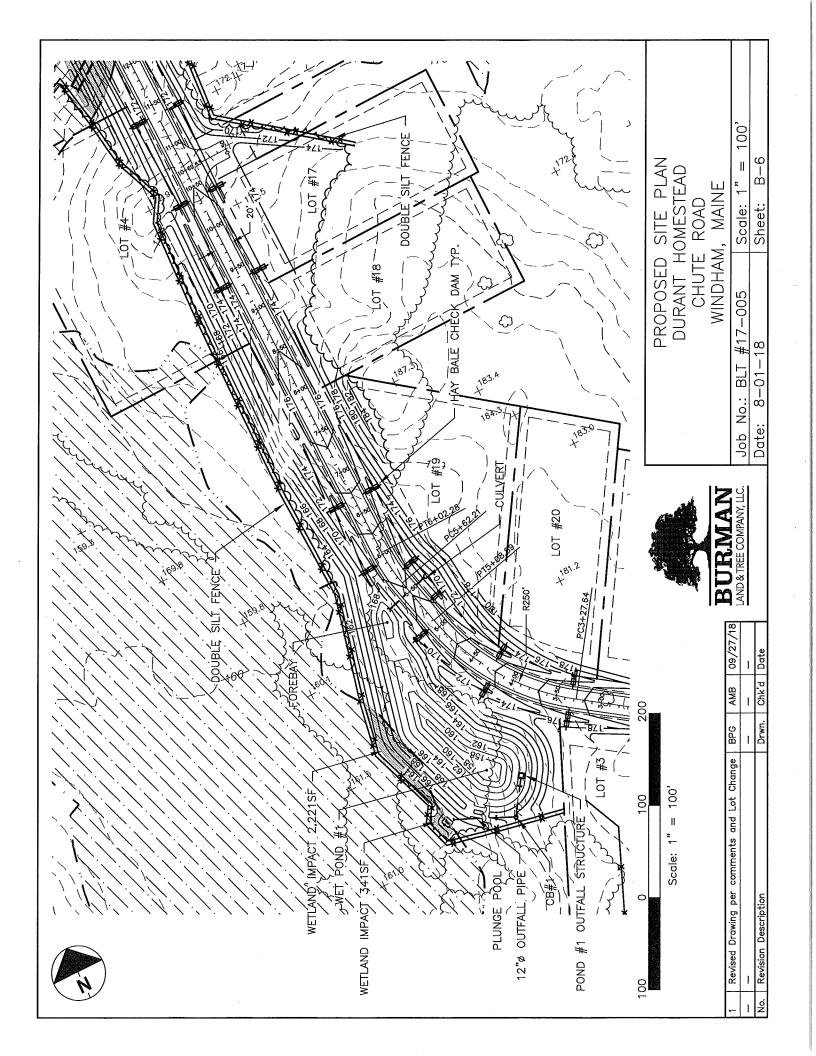
PLEASE NOTE THE FOLLOWING ADDITIONAL CONDITIONS FOR DEPARTMENT OF THE ARMY GENERAL PERMIT NO. NAE-2018-02825

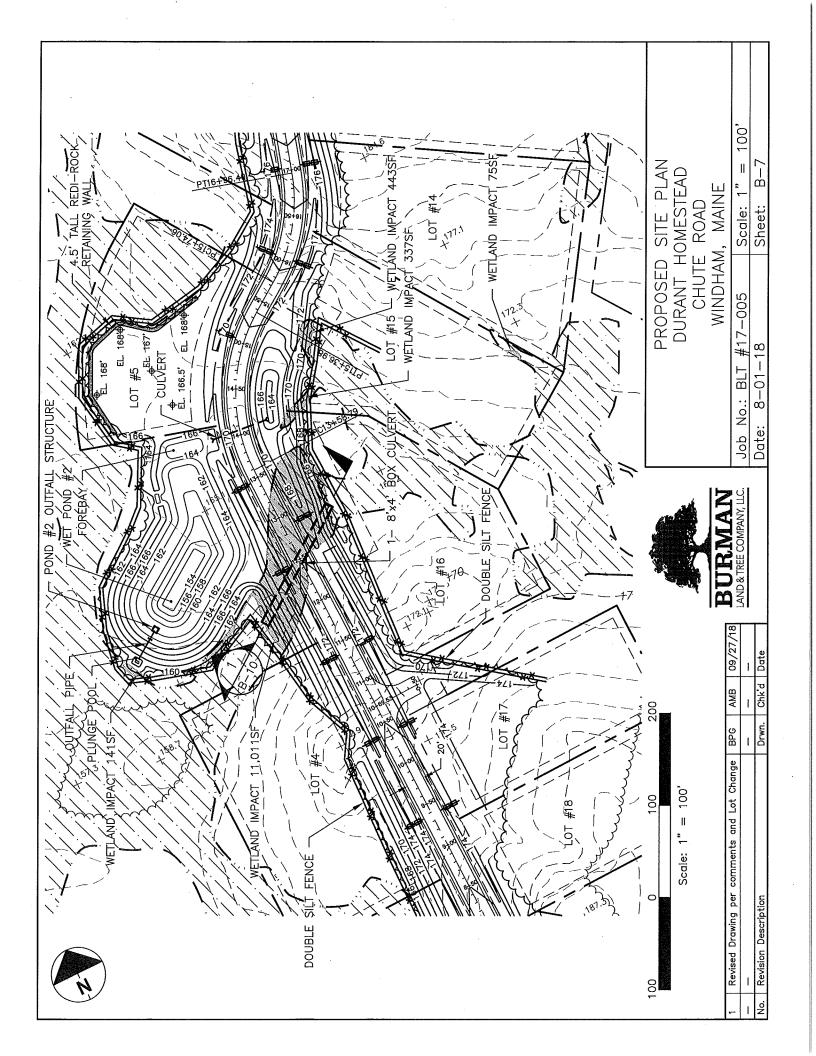
- 1. The permittee shall assure that a copy of this permit is at the work site whenever work is being performed and that all personnel performing work at the site of the work authorized by this permit are fully aware of the terms and conditions of the permit. This permit, including its drawings and any appendices and other attachments, shall be made a part of any and all contracts and sub-contracts for work which affects areas of Corps of Engineers' jurisdiction at the site of the work authorized by this permit. This shall be done by including the entire permit in the specifications for the work. If the permit is issued after construction specifications but before receipt of bids or quotes, the entire permit shall be included as an addendum to the specifications. The term "entire permit" includes permit amendments. Although the permittee may assign various aspects of the work to different contractors or sub-contractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions of the entire permit, and no contract or sub-contract shall require or allow unauthorized work in areas of Corps of Engineers jurisdiction.
- 2. This authorization requires you to 1) notify us before beginning work so we may inspect the project, and 2) submit a Compliance Certification Form. You must **complete and return the enclosed Work Start Notification Form** to this office at least two weeks before the anticipated starting date. You must **complete and return the enclosed Compliance Certification Form** within one month following the completion of the authorized work and any required mitigation (but not mitigation monitoring, which requires separate submittals).
- 3. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering the fines involved, shall be installed and properly maintained to minimize impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices shall be removed and placed upland, in a manner that will prevent its later erosion and transport to a waterway or wetland.
- 4. All exposed soils resulting from the construction shall be promptly seeded and mulched in order to achieve vegetative stabilization.
- 5. The buyers of lots in this subdivision shall be provided a copy of this permit and plans.
- 6. No additional filling of waters of the United States (wetlands or waterways) for lot development is authorized without written approval from the Corps. Mitigation in the form of In-Lieu-Fee may be required for additional wetland and/or stream bottom impacts, cumulatively for the subdivision.
- 7. No tree cutting shall occur between June 1st and July 31st of any year and to the maximum extent practicable, tree cutting shall occur between October 16th and April 9th of any year in order to minimize potential impacts to federally threatened northern long-eared bats.

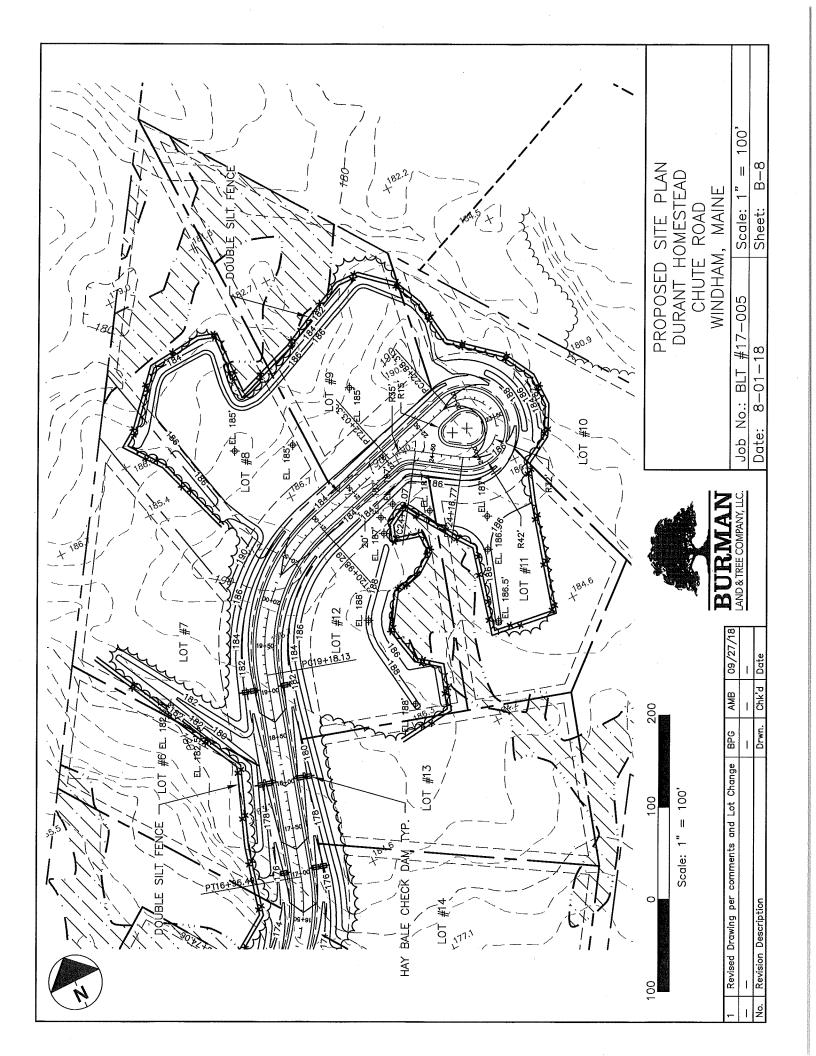


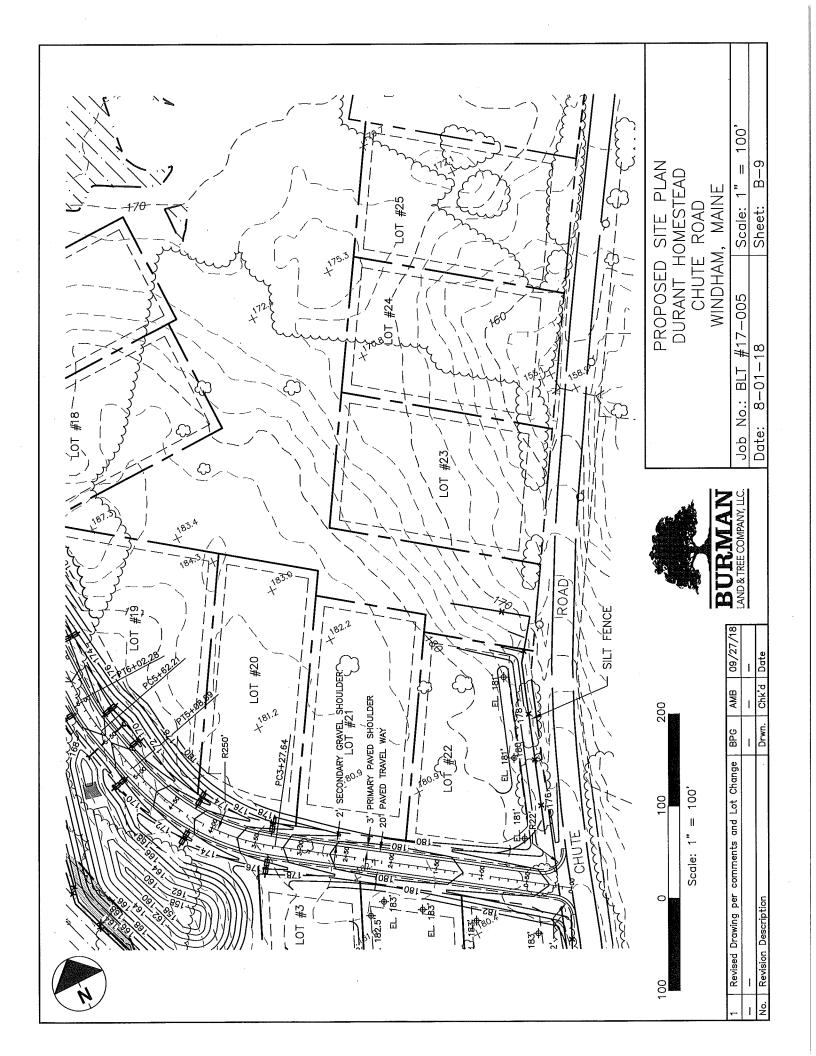


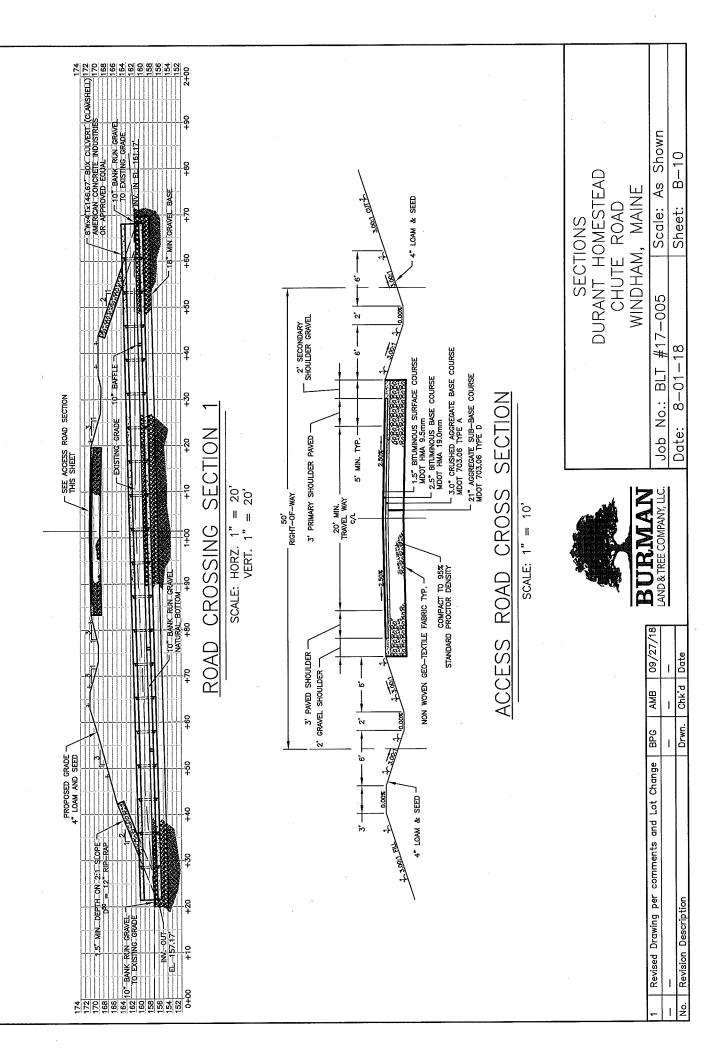














GENERAL PERMIT WORK-START NOTIFICATION FORM

(Minimum Notice: Two weeks before work begins)

MAIL TO:

Colin M. Greenan

U.S. Army Corps of Engineers, New England District

Maine Project Office

442 Civic Center Drive, Suite 350

Augusta, Maine 04330

A Corps of Engineers Permit (No. NAE-2018-02825) was issued to <u>Matt Hancock Properties, LLC</u>. The permit authorized the permittee to <u>place permanent fill in freshwater wetlands off Chute Road at Windham, Maine in order to construct an access road and associated infrastructure for a 25-lot single-family subdivision.</u>

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Telephone: ())
Proposed Work Dates: <u>S</u>	Start:		
<u> </u>	Finish:		
PERMITTEE'S SIGNATURE:	:		DATE:
PRINTED NAME:		TITLE:	
	FOR USE BY THE CO	ORPS OF ENGIN	VEERS
PM: <u>GREENAN</u> Submitta	als Required: No		
Inspection Recommendation:	random MEGP complia	nce	



(Minimum Notice: Permittee must sign and return notification within one month of the completion of work.)

COMPLIANCE CERTIFICATION FORM

Corps of Engin	eers Permit No: NAE-2018-02825		
Name of Permi	ttee: Matt Hancock Properties, LLC		
Permit Issuanc	e Date: 11/15/2018		
mitigation requi	certification and return it to the following red by the permit. You must submit this ch requires separate submittals.	g address upon completion of the activity and any after the mitigation is complete, but not the mitig	ation
******	**********	*******	
* MAIL TO	: U.S. Army Corps of Engineers, New E		
*	Policy & Technical Support Branch	*	
. *	Regulatory Division	*	
*	696 Virginia Road	*	
*	Concord, Massachusetts 01742-2751 ************************************	, a,	
I hereby certify	that the work authorized by the above	e referenced permit was completed in accordange permit, and any required mitigation was	1ce
	ecordance with the permit conditions.	permit, and any required integration was	
Signature of Per	mittee	Date	
Printed Name		Date of Work Completion	
()		()	
Telephone Number		Telephone Number	



STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

MATT HANCOCK PROPERTIES, LLC) SITE LOCATION OF DEVELOPMENT ACT
Windham, Cumberland County) NATURAL RESOURCES PROTECTION ACT
DURANT HOMESTEAD SUBDIVISION) FRESHWATER WETLAND ALTERATION
L-23215-L3-D-N (approval)) WATER QUALITY CERTIFICATION
L-23215-TC-E-N (approval)) FINDINGS OF FACT AND ORDER

Pursuant to the provisions of 38 M.R.S. §§ 481–489-E and §§ 480-A–480-JJ, Section 401 of the Federal Water Pollution Control Act (33 U. S. C. § 1341), and Chapters 310, 315, 335, 372, 375, 500, 501, and 502 of Department rules, the Department of Environmental Protection has considered the application of MATT HANCOCK PROPERTIES, LLC with the supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. PROJECT DESCRIPTION:

- A. History of Project: In Department Order #L-23215-L3-A-N/L-23215-TB-B-N, dated July 17, 2007, the Department approved the development of the Durant Homestead Subdivision, a 26-lot subdivision on an approximately 65.5-acre parcel of land. The Order authorized the alteration of approximately 13,415 square feet of freshwater wetlands. On May 22, 2007, the Department received an application (#L-23215-TB-C-N) for changes to the wetland alterations on the parcel. This application was withdrawn on August 24, 2007. The project was never built. The project site is located on the west side of Chute Road in the Town of Windham.
- B. Summary: The applicant proposes to subdivide the 65.5-acre parcel of land into 25 residential lots ranging in size from approximately 0.69 to 1.15 acres and two open space lots totaling 40.37 acres, all as shown on a set of plans the first of which is entitled "Matt Hancock Properties, Durant Subdivision," prepared by Acheron Engineering Services, and dated July 30, 2018, with a last revision date of January 24, 2019. The proposed project includes approximately 17.5 acres of developed area, of which 3.8 acres are impervious area.

The applicant is also seeking approval under the Natural Resources Protection Act (NRPA) to alter 14,569 square feet of freshwater wetlands at seven locations as described in Finding 17.

C. Current Use of Site: The site of the proposed project is currently undeveloped fields, woodland, and forested wetlands. There are no structures on the property. The parcel was selectively harvested. The parcel is identified as Lot 25 on Map 6 of the Town of Windham's tax maps.

2. FINANCIAL CAPACITY:

The total cost of the project is estimated to be \$540,000. The applicant submitted a letter from RBC Wealth Management, dated April 18, 2018 indicating that the applicant has sufficient funds in its account to meet the estimated cost of the proposed project.

The Department finds that the applicant has demonstrated adequate financial capacity to comply with Department standards.

3. TECHNICAL ABILITY:

The applicant provided resume information for key persons involved with the project and a list of projects successfully constructed by the applicant. The applicant also retained the services of Acheron Engineering Services, a professional engineering firm, to assist in the design and engineering of the project.

The Department finds that the applicant has demonstrated adequate technical ability to comply with Department standards.

4. NOISE:

The Department finds that no regulated sources of noise have been identified. The applicant proposes to limit construction on the site to the hours between 7:00 A.M. and 7:00 P.M. Construction noise generated during these hours is not regulated pursuant to 38 M.R.S. § 484(3)(A).

The Department finds that the applicant has made adequate provision for the control of excessive environmental noise from the proposed project.

5. SCENIC CHARACTER:

The project is located on the west side of Chute Road bounded on all sides by woodland and forested wetland, in a rural area of Windham adjacent to similar residential subdivisions. Along Chute Road, the parcel is relatively level and there is very little relief in the area to offer a vantage point from which to view the project. Single-family residences line Chute Road. Existing wooded buffers will be maintained between the development and abutting properties. The proposed project consists solely of residential development and open space.

Based on the project's location and design, the Department finds that the proposed project will not have an unreasonable adverse effect on the scenic character of the surrounding area.

6. WILDLIFE AND FISHERIES:

The Maine Department of Inland Fisheries and Wildlife (MDIFW) reviewed the proposed project. In its comments, MDIFW stated that it found no records of any Essential or Significant Wildlife Habitats, or other wildlife habitats of special concern associated with this site. No fisheries concerns were identified.

The Department finds that the applicant has made adequate provision for the protection of wildlife and fisheries.

7. HISTORIC SITES AND UNUSUAL NATURAL AREAS:

The Maine Historic Preservation Commission reviewed the proposed project and stated that it will have no effect upon any structure or site of historic, architectural, or archaeological significance as defined by the National Historic Preservation Act of 1966.

The Maine Natural Areas Program database does not contain any records documenting the existence of rare or unique botanical features on the project site and, as discussed in Finding 6, MDIFW did not identify any unusual wildlife habitats located on the project site.

The Department finds that the proposed development will not have an adverse effect on the preservation of any historic sites or unusual natural areas either on or near the development site.

8. BUFFER STRIPS:

The applicant proposes to provide forested, limited-disturbance and meadow stormwater buffers, as discussed in Finding 10. The stormwater buffers will be protected from alteration through the execution of a deed restriction. The applicant proposes to use the deed restriction language contained in Appendix G of Chapter 500 and submitted a draft deed restriction that meets Department requirements.

Prior to the start of construction, the location of the stormwater buffers located in the two Open Space lots must be permanently marked on the ground. The deed for the parcel must contain deed restrictions relative to these stormwater buffers and have attached to it a plot plan, drawn to scale, that specifies the location of the stormwater buffers on the parcel. The applicant must execute and record the required deed restrictions within 60 days of the date of this Order. The applicant must submit a copy of the recorded deed restrictions, including the plot plan, to the Bureau of Land Resources (BLR) within 60 days of its recording.

Prior to the start of construction on Lots 1, 2, 3, 13, 14, 17, 23, and 25, the deed for each lot must contain deed restrictions relative to the stormwater buffer and have attached to it a plot plan for the lot, drawn to scale, that specifies the location of the stormwater buffer on the lot. Also, prior to the start of construction on Lots 1, 2, 3, 13, 14, 17, 23, and 25,

the applicant must submit a copy of the recorded deed restriction including the plot plan to the BLR. Prior to construction on each of these lots, the location of the stormwater buffer must be permanently marked on the ground.

Provided the stormwater buffer areas are protected from future disturbance as outlined above, the Department finds that the applicant has made adequate provision for buffer strips.

9. SOILS:

The applicant submitted a Class B High Intensity soil survey map and report, prepared by a certified soils scientist and a geotechnical report, prepared by a registered professional geologist based on the soils found at the project site. These reports were reviewed by staff from the Division of Environmental Assessment (DEA) of the Bureau of Water Quality.

The applicant indicated blasting associated with construction of the project is likely and submitted a site-specific blasting plan in the application for blasting that occurs within 500 feet of non-owned off-site structures such as buildings and wells. The blasting plan, dated July 18, 2018, was prepared by a qualified blaster and was determined to meet the blasting standards contained in 38 M.R.S. § 490-Z(14).

The Department finds that, based on this report, the Blasting Plan, and DEA's review, the soils on the project site present no limitations to the proposed project that cannot be overcome through standard engineering practices.

10. <u>STORMWATER MANAGEMENT:</u>

The proposed project includes approximately 17.5 acres of developed area, of which 3.8 acres are impervious area. It lies within the watershed of Black Brook and Colley Wright Brook. The applicant submitted a stormwater management plan based on the Basic, General, and Flooding Standards contained in Chapter 500 Stormwater Management rules (06-096 C.M.R. ch. 500, effective August 12, 2015). The proposed stormwater management system consists of grass swales, two wet ponds, four meadow buffers, and ten forested, limited-disturbance buffers.

A. Basic Standards:

(1) Erosion and Sedimentation Control: The applicant submitted an Erosion and Sedimentation Control Plan (Section 14 of the application) that is based on the performance standards contained in Appendix A of Chapter 500 and the Best Management Practices outlined in the Maine Erosion and Sediment Control BMPs, which were developed by the Department. This plan and plan sheets containing erosion control details were reviewed by, and revised in response to the comments of, the BLR.

Erosion control details will be included on the final construction plans and the erosion control narrative will be included in the project specifications to be provided to the construction contractor.

(2) Inspection and Maintenance: The applicant submitted a maintenance plan that addresses both short and long-term maintenance requirements. The maintenance plan is based on the standards contained in Appendix B of Chapter 500. This plan was reviewed by, and revised in response to the comments of, BLR. A homeowners' association will be established that will be responsible for the maintenance of all common facilities including the stormwater management system. The Declaration of Covenants and Restrictions for the association was reviewed and found to meet Department requirements. Prior to the formation of the homeowners' association, the applicant will be responsible for all such maintenance.

Storm sewer grit and sediment materials removed from stormwater control structures during maintenance activities must be disposed of in compliance with the Maine Solid Waste Management Rules.

(3) Housekeeping: The proposed project will comply with the performance standards outlined in Appendix C of Chapter 500.

Based on BLR's review of the erosion and sedimentation control plan and the maintenance plan, the Department finds that the proposed project meets the Basic Standards contained in Chapter 500(4)(B).

B. General Standards:

Pursuant to Chapter 500(4)(C)(2)(a)(iii), the applicant has chosen to limit the percentage of developed land area to less than 60% of the land available for development. As a result, the percentage of total developed area requiring treatment is 75% and the percentage of total impervious area requiring treatment is 90%. The applicant's stormwater management plan includes general treatment measures that will mitigate for the increased frequency and duration of channel erosive flows due to runoff from smaller storms, provide for effective treatment of pollutants in stormwater, and mitigate potential temperature impacts. This mitigation is being achieved by using Best Management Practices (BMPs) that will control runoff from no less than 90% of the impervious area and no less than 76% of the developed area.

The forested, limited disturbance and meadow stormwater buffers located on lots and the two open space lots will be protected from alteration through the execution of a deed restriction as outlined in Finding 8. The applicant proposes to use the deed restriction language contained in Appendix G of Chapter 500.

The stormwater management system proposed by the applicant was reviewed by, and revised in response to comments from, BLR. After a final review, BLR commented that

the proposed stormwater management system is designed in accordance with the General Standards contained in Chapter 500(4)(C).

Based on the stormwater system's design and BLR's review, the Department finds that the applicant has made adequate provision to ensure that the proposed project will meet the General Standards contained in Chapter 500(4)(C).

C. Flooding Standard:

The applicant is proposing to utilize a stormwater management system based on estimates of pre- and post-development stormwater runoff flows obtained by using Hydrocad, a stormwater modeling software that utilizes the methodologies outlined in Technical Releases #55 and #20, U.S.D.A., Soil Conservation Service and detains stormwater from 24-hour storms of 2-, 10-, and 25-year frequency. The post-development peak flow from the site will not exceed the pre-development peak flow from the site and the peak flow of the receiving water will not be increased as a result of stormwater runoff from the development site.

BLR commented that the proposed system is designed in accordance with the Flooding Standard contained in Chapter 500(4)(F).

Based on the system's design and BLR's review, the Department finds that the applicant has made adequate provision to ensure that the proposed project will meet the Flooding Standard contained in Chapter 500(4)(F) for peak flow from the project site, and channel limits and runoff areas.

11. GROUNDWATER:

The project site is not located over a mapped sand and gravel aquifer. Other than drinking water, the proposed project does not propose any withdrawal from the groundwater. Wastewater will be disposed of via individual subsurface wastewater disposal systems on each lot as described in Finding 13.

Based on DEA's review of the information discussed in Findings 12 and 13, the Department finds that the proposed project will not unreasonably deplete groundwater resources. Therefore, the Department further finds that the proposed project will not have an unreasonable adverse effect on groundwater quality or quantity.

12. WATER SUPPLY:

Water for the development will be supplied by individual wells. The applicant submitted an assessment of groundwater supplies that are available on the project site and an analysis of potential impacts to on-site wells resulting from on-site wastewater disposal. These assessments were prepared by a certified geologist and were reviewed by, and revised in response to comments from, the DEA.

Water supply well casings must be set and grouted a minimum of 20 feet into the solid bedrock surface, if bedrock is encountered at a depth less than 10 feet. Wells must not be located in the exclusion areas identified on the Well & Septic System Location Plan, included in the set of plans referenced in Finding 1.

Provided individual wells areas are protected as discussed above, the Department finds that the applicant has made adequate provision for securing and maintaining a sufficient and healthful water supply.

13. WASTEWATER DISPOSAL:

Wastewater will be disposed of by an individual subsurface wastewater disposal system on each lot. The applicant submitted the soil survey map and report discussed in Finding 9 and an analysis of potential impacts to off-site groundwater quality resulting from onsite wastewater disposal prepared by a certified geologist. Each individual system must be designed to meet the requirements of the Maine State Plumbing Code. This information was reviewed by, and revised in response to comments from, DEA.

Individual wastewater disposal field locations were identified on the Well & Septic System Location Plan included in the set of plans referenced in Finding 1 and were determined based on the nitrate-nitrogen impact analysis. DEA commented that the nitrate-nitrogen impact assessment was based on wastewater flows generated by a 3-bedroom dwelling, and therefore, single-family residences for the proposed project must be limited to dwellings with three bedrooms or less.

Relocation of an individual subsurface wastewater disposal system will require review and approval from the BLR prior to installation of the system.

Based on the soil survey map and report, the analysis of potential impacts to off-site groundwater quality, and DEA's comments, the Department finds that the proposed wastewater disposal systems will be built on suitable soil types and that Maine's Drinking Water Standard for nitrates will be met at the project's property lines provided that subsurface wastewater disposal systems are located as shown on the set of plans referenced in Finding 1 and dwellings are limited to three bedrooms or less.

14. SOLID WASTE:

When completed, the proposed project is anticipated to generate six tons of household solid waste per year. All general solid wastes from the proposed project will be disposed of utilizing the Town's curbside pickup service. The Town contracts this service to Pine Tree Waste who hauls municipal solid waste to its transfer station in Westbrook and then on to the Juniper Ridge Landfill, which is currently in substantial compliance with the Maine Solid Waste Management Rules.

The proposed project will generate approximately 400 cubic yards of stumps and grubbings. All stumps and grubbings generated will be chipped and ground on site, and

used as erosion control mix and landscape mulching in compliance with the Solid Waste Management Regulations of the State of Maine.

The proposed project will generate approximately 50 cubic yards of construction debris and demolition debris per lot. All construction and demolition debris generated will be disposed of at the Pine Tree Waste transfer station in Westbrook, which is currently in substantial compliance with the Maine Solid Waste Management Rules.

Based on the above information, the Department finds that the applicant has made adequate provision for solid waste disposal.

15. FLOODING:

The proposed project is not located within the 100-year flood plain of any river or stream.

The Department finds that the proposed project is unlikely to cause or increase flooding or cause an unreasonable flood hazard to any structure.

16. WETLAND IMPACTS:

The applicant proposes to directly alter 14,569 square feet of forested freshwater wetland at seven locations on the parcel to construct the proposed project. The proposed alteration is shown on the set of plans referenced in Finding 1. The applicant avoided wetland impacts by designing the road to cross the wetlands in narrow locations and at a right angle to the narrow wetland area. The applicant minimized wetland fill by reducing road side slopes from 3:1 to 2:1 where the road crosses the wetlands. Given the location of wetlands throughout the parcel, crossing the wetlands to access upland portions of the project site are unavoidable. According to the Department's Geographic Information System, there are no mapped Significant Wildlife Habitats associated with the project site.

Prior to the start of construction on Lots 4, 5, 8, 9, 11, 12, 13, 14, 15, and 16, the location of wetlands on these lots must be permanently marked on the ground and the deed for each lot that contains any portion of a wetland must have attached to it a plot plan for the lot, drawn to scale, that specifies the location of the wetland on the lot. The Subdivision Plan, included in the set of plans referenced in Finding 1, includes a note that any further alteration of wetlands is not authorized without prior Department approval.

The Department finds that the applicant has avoided and minimized wetland impacts to the greatest extent practicable, and that the proposed project represents the least environmentally damaging alternative that meets the overall purpose of the project provided that the location of the wetlands on Lots 4, 5, 8, 9, 11, 12, 13, 14, 15, and 16 are permanently marked on the ground prior to the start of construction on each lot.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to 38 M.R.S. §§ 480-A–480-JJ and Section 401 of the Federal Water Pollution Control Act:

- A. The proposed activity will not unreasonably harm any significant wildlife habitat, freshwater wetland plant habitat, threatened or endangered plant habitat, aquatic habitat, travel corridor, freshwater, estuarine, or marine fisheries or other aquatic life provided that the location of the wetlands on Lots 4, 5, 8, 9, 11, 12, 13, 14, 15, and 16 are permanently marked on the ground prior to the start of construction on each lot, as described in Finding 16.
- B. The proposed activity will not violate any state water quality law including those governing the classifications of the State's waters.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to 38 M.R.S. §§ 481–489-E:

- A. The applicant has provided adequate evidence of financial capacity and technical ability to develop the project in a manner consistent with state environmental standards.
- B. The applicant has made adequate provision for fitting the development harmoniously into the existing natural environment and the development will not adversely affect existing uses, scenic character, air quality, water quality or other natural resources in the municipality or in neighboring municipalities.
- C. The proposed development will be built on soil types which are suitable to the nature of the undertaking and will not cause unreasonable erosion of soil or sediment nor inhibit the natural transfer of soil.
- D. The proposed development meets the standards for storm water management in 38 M.R.S. § 420-D and the standard for erosion and sedimentation control in 38 M.R.S. § 420-C provided that sewer grit and sediment are disposed of properly and that deed restrictions for the designated stormwater buffers are recorded, as described in Finding 8.
- E. The proposed development will not pose an unreasonable risk that a discharge to a significant groundwater aquifer will occur.
- F. The applicant has made adequate provision of utilities, including water supplies, sewerage facilities and solid waste disposal required for the development and the development will not have an unreasonable adverse effect on the existing or proposed utilities in the municipality or area served by those services provided that drinking water wells and subsurface wastewater disposal systems are located as shown on the set of plans referenced in Finding 1 and installed as described in Findings 12 and 13.

G. The activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties nor create an unreasonable flood hazard to any structure.

THEREFORE, the Department APPROVES the application of MATT HANCOCK PROPERTIES, LLC to construct a 27-lot residential subdivision as described in Finding 1, SUBJECT TO THE FOLLOWING CONDITIONS and all applicable standards and regulations:

- 1. The Standard Conditions of Approval, a copy attached.
- 2. In addition to any specific erosion control measures described in this or previous orders, the applicant shall take all necessary actions to ensure that its activities or those of its agents do not result in noticeable erosion of soils or fugitive dust emissions on the site during the construction and operation of the project covered by this approval.
- 3. Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.
- 4. The applicant shall include in all conveyances of subdivision lots deed restrictions making the conveyance subject to all terms and conditions of this Department permit and any applicable municipal approval. These terms and conditions may be incorporated by specific and prominent reference to the permit in the deed. All conveyances required by this approval to contain restrictions shall include in the restrictions the requirement that any subsequent conveyance shall specifically include the same restrictions.
- 5. The applicant shall give a copy of this permit, including the standard conditions, and a copy of the approved subdivision plan to each lot buyer at least 14 days prior to the date of closing on the sale or lease of the lot. The applicant also shall maintain a file containing signed and dated statements by lot buyers or lessees acknowledging that they have received and read their copy of this permit and the subdivision plan prior to the closing on their lot. The file shall also contain a copy of the signed and dated deed or lease containing the restrictive covenants required under this approval. The applicant shall make this file available for inspection upon request by the Department.
- 6. The applicant shall execute and record all required deed restrictions, including the stormwater buffer deed restrictions, within 60 days of the date of this Order unless the deed restriction is to be placed on a subdivision lot (Lots 1, 2, 3, 13, 14, 17, 23, and 25). In that situation, the applicant shall execute and record the required deed restriction prior to the start of construction on the lot. The applicant shall submit a copy of the recorded deed restriction, including the plot plan, to the BLR within 60 days of its recording.
- 7. Prior to the start of construction, the location of forested and meadow stormwater buffers on individual lots shall be permanently marked on the ground.

- 8. Storm sewer grit and sediment materials removed from stormwater control structures shall be disposed of in compliance with the Maine Solid Waste Management Rules.
- 9. Individual water supply well casings shall be set and grouted a minimum of 20 feet into the solid bedrock surface, if bedrock is less than 10 feet in depth at well sites. Wells shall not be located in the exclusion areas identified on the Well & Septic System Location Plan included in the set of plans referenced in Finding 1.
- 10. Each individual subsurface wastewater disposal system shall not exceed the design flow for a 3-bedroom dwelling and shall be located as shown on the Well & Septic System Location Plan included in the set of plans referenced in Finding 1. Relocation of an individual subsurface wastewater disposal system shall require review and approval from the BLR prior to installation of the system.
- 11. Prior to the start of construction on Lots 4, 5, 8, 9, 11, 12, 13, 14, 15, and 16, the location of wetlands on these lots shall be permanently marked on the ground and the deed for each lot that contains any portion of a wetland must have attached to it a plot plan for the lot, drawn to scale, that specifies the location of the wetland on the lot.

THIS APPROVAL DOES NOT CONSTITUTE OR SUBSTITUTE FOR ANY OTHER REQUIRED STATE, FEDERAL OR LOCAL APPROVALS NOR DOES IT VERIFY COMPLIANCE WITH ANY APPLICABLE SHORELAND ZONING ORDINANCES.

DONE AND DATED IN AUGUSTA, MAINE, THIS ZOTH DAY OF JANUARY , 2019

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Deliver Service Commission on

For: Melanie Loyzim Acting Commissioner

State of Maine

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

RLG/L23215DNEN/ATS#83464, 83466

Department of Environmental Protection SITE LOCATION OF DEVELOPMENT (SITE) STANDARD CONDITIONS

- **A. Approval of Variations from Plans**. The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation. Further subdivision of proposed lots by the applicant or future owners is specifically prohibited without prior approval of the Board, and the applicant shall include deed restrictions to that effect.
- **B.** Compliance with All Applicable Laws. The applicant shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
- C. Compliance with All Terms and Conditions of Approval. The applicant shall submit all reports and information requested by the Board or the Department demonstrating that the applicant has complied or will comply with all preconstruction terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
- **D.** Advertising. Advertising relating to matters included in this application shall refer to this approval only if it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.
- **E.** Transfer of Development. Unless otherwise provided in this approval, the applicant shall not sell, lease, assign or otherwise transfer the development or any portion thereof without prior written approval of the Board where the purpose or consequence of the transfer is to transfer any of the obligations of the developer as incorporated in this approval. Such approval shall be granted only if the applicant or transferee demonstrates to the Board that the transferee has the technical capacity and financial ability to comply with conditions of this approval and the proposals and plans contained in the application and supporting documents submitted by the applicant.
- **F.** Time frame for approvals. If the construction or operation of the activity is not begun within four years, this approval shall lapse and the applicant shall reapply to the Board for a new approval. The applicant may not begin construction or operation of the development until a new approval is granted. A reapplication for approval may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.
- **G. Approval Included in Contract Bids.** A copy of this approval must be included in or attached to all contract bid specifications for the development.
- **H. Approval Shown to Contractors**. Work done by a contractor pursuant to this approval shall not begin before the contractor has been shown by the developer a copy of this approval.

(2/81)/Revised December 27, 2011



Natural Resources Protection Act (NRPA) Standard Conditions

THE FOLLOWING STANDARD CONDITIONS SHALL APPLY TO ALL PERMITS GRANTED UNDER THE NATURAL RESOURCES PROTECTION ACT, 38 M.R.S. § 480-A ET SEQ., UNLESS OTHERWISE SPECIFICALLY STATED IN THE PERMIT.

- A. <u>Approval of Variations From Plans.</u> The granting of this permit is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation.
- B. <u>Compliance With All Applicable Laws.</u> The applicant shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
- C. <u>Erosion Control.</u> The applicant shall take all necessary measures to ensure that his activities or those of his agents do not result in measurable erosion of soils on the site during the construction and operation of the project covered by this Approval.
- D. <u>Compliance With Conditions.</u> Should the project be found, at any time, not to be in compliance with any of the Conditions of this Approval, or should the applicant construct or operate this development in any way other the specified in the Application or Supporting Documents, as modified by the Conditions of this Approval, then the terms of this Approval shall be considered to have been violated.
- E. <u>Time frame for approvals.</u> If construction or operation of the activity is not begun within four years, this permit shall lapse and the applicant shall reapply to the Board for a new permit. The applicant may not begin construction or operation of the activity until a new permit is granted. Reapplications for permits may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.
- F. <u>No Construction Equipment Below High Water.</u> No construction equipment used in the undertaking of an approved activity is allowed below the mean high water line unless otherwise specified by this permit.
- G. <u>Permit Included In Contract Bids.</u> A copy of this permit must be included in or attached to all contract bid specifications for the approved activity.
- H. <u>Permit Shown To Contractor.</u> Work done by a contractor pursuant to this permit shall not begin before the contractor has been shown by the applicant a copy of this permit.

Revised September 2016

STORMWATER STANDARD CONDITIONS

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL

Standard conditions of approval. Unless otherwise specifically stated in the approval, a department approval is subject to the following standard conditions pursuant to Chapter 500 Stormwater Management Law.

- (1) Approval of variations from plans. The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the permittee. Any variation from these plans, proposals, and supporting documents must be reviewed and approved by the department prior to implementation. Any variation undertaken without approval of the department is in violation of 38 M.R.S. §420-D(8) and is subject to penalties under 38 M.R.S. §349.
- (2) Compliance with all terms and conditions of approval. The applicant shall submit all reports and information requested by the department demonstrating that the applicant has complied or will comply with all terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
- (3) Advertising. Advertising relating to matters included in this application may not refer to this approval unless it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.
- (4) Transfer of project. Unless otherwise provided in this approval, the applicant may not sell, lease, assign, or otherwise transfer the project or any portion thereof without written approval by he department where the purpose or consequence of the transfer is to transfer any of the obligations of the developer as incorporated in this approval. Such approval may only be granted if the applicant or transferee demonstrates to the department that the transferee agrees to comply with conditions of this approval and the proposals and plans contained in the application and supporting documents submitted by the applicant. Approval of a transfer of the permit must be applied for no later than two weeks after any transfer of property subject to the license.
- Time frame for approvals. If the construction or operation of the activity is not begun within four years, this approval shall lapse and the applicant shall reapply to the department for a new approval. The applicant may not begin construction or operation of the project until a new approval is granted. A reapplication for approval may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.
- (6) Certification. Contracts must specify that "all work is to comply with the conditions of the Stormwater Permit." Work done by a contractor or subcontractor pursuant to this approval may not begin before the contractor and any subcontractors have been shown a copy of this approval with the conditions by the permittee, and the permittee and each contractor and subcontractor has certified, on a form provided by the department, that the approval and conditions have been received and read, and that the work will be carried out in accordance with the approval and conditions. Completed certification forms must be forwarded to the department.

- (7) Maintenance. The components of the stormwater management system must be adequately maintained to ensure that the system operates as designed, and as approved by the Department. If maintenance responsibility is to be transferred from the permittee to another entity, a transfer request must be filed with the Department which includes the name and contact information for the person or entity responsible for this maintenance. The form must be signed by the responsible person or agent of the responsible entity.
- (8) Recertification requirement. Within three months of the expiration of each five-year interval from the date of issuance of the permit, the permittee shall certify the following to the department.
- (a) All areas of the project site have been inspected for areas of erosion, and appropriate steps have been taken to permanently stabilize these areas.
- (b) All aspects of the stormwater control system are operating as approved, have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system, or portions of the system, as necessary.
- (c) The stormwater maintenance plan for the site is being implemented as approved by the Department, and the maintenance log is being maintained.
- (d) All proprietary systems have been maintained according to the manufacturer's recommendations. Where required by the Department, the permittee shall execute a 5-year maintenance contract with a qualified professional for the coming 5-year interval. The maintenance contract must include provisions for routine inspections, cleaning and general maintenance.
- (e) The Department may waive some or all of these recertification requirements on a case-by-case basis for permittees subject to the Department's Multi-Sector General Permit ("MSGP") and/or Maine Pollutant Discharge Elimination System ("MEPDES") programs where it is demonstrated that these programs are providing stormwater control that is at least as effective as required pursuant to this Chapter.
- (9) Transfer of property subject to the license. If any portion of the property subject to the license containing areas of flow or areas that are flooded are transferred to a new property owner, restrictive covenants protecting these areas must be included in any deeds or leases, and recorded at the appropriate county registry of deeds. Also, in all transfers of such areas and areas containing parts of the stormwater management system, deed restrictions must be included making the property transfer subject to all applicable terms and conditions of the permit. These terms and conditions must be incorporated by specific and prominent reference to the permit in the deed. All transfers must include in the restrictions the requirement that any subsequent transfer must specifically include the same restrictions unless their removal or modification is approved by the Department. These restrictions must be written to be enforceable by the Department, and must reference the permit number.
- (10) Severability. The invalidity or unenforceability of any provision, or part thereof, of this permit shall not affect the remainder of the provision or any other provisions. This permit shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.



DEP INFORMATION SHEET

Appealing a Department Licensing Decision

Dated: November 2018 Contact: (207) 287-2452

SUMMARY

There are two methods available to an aggrieved person seeking to appeal a licensing decision made by the Department of Environmental Protection's (DEP) Commissioner: (1) an administrative process before the Board of Environmental Protection (Board); or (2) a judicial process before Maine's Superior Court. An aggrieved person seeking review of a licensing decision over which the Board had original jurisdiction may seek judicial review in Maine's Superior Court.

A judicial appeal of final action by the Commissioner or the Board regarding an application for an expedited wind energy development (35-A M.R.S. § 3451(4)) or a general permit for an offshore wind energy demonstration project (38 M.R.S. § 480-HH(1)) or a general permit for a tidal energy demonstration project (38 M.R.S. § 636-A) must be taken to the Supreme Judicial Court sitting as the Law Court.

This information sheet, in conjunction with a review of the statutory and regulatory provisions referred to herein, can help a person to understand his or her rights and obligations in filing an administrative or judicial appeal.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

The laws concerning the DEP's *Organization and Powers*, 38 M.R.S. §§ 341-D(4) & 346; the *Maine Administrative Procedure Act*, 5 M.R.S. § 11001; and the DEP's *Rules Concerning the Processing of Applications and Other Administrative Matters* ("Chapter 2"), 06-096 C.M.R. ch. 2.

DEADLINE TO SUBMIT AN APPEAL TO THE BOARD

The Board must receive a written appeal within 30 days of the date on which the Commissioner's decision was filed with the Board. Appeals filed more than 30 calendar days after the date on which the Commissioner's decision was filed with the Board will be dismissed unless notice of the Commissioner's license decision was required to be give to the person filing an appeal (appellant) and the notice was not given as required.

HOW TO SUBMIT AN APPEAL TO THE BOARD

Signed original appeal documents must be sent to: Chair, Board of Environmental Protection, 17 State House Station, Augusta, ME 04333-0017. An appeal may be submitted by fax or e-mail if it contains a scanned original signature. It is recommended that a faxed or e-mailed appeal be followed by the submittal of mailed original paper documents. The complete appeal, including any attachments, must be received at DEP's offices in Augusta on or before 5:00 PM on the due date; materials received after 5:00 pm are not considered received until the following day. The risk of material not being received in a timely manner is on the sender, regardless of the method used. The appellant must also send a copy of the appeal documents to the Commissioner of the DEP; the applicant (if the appellant is not the applicant in the license proceeding at issue); and if a hearing was held on the application, any intervenor in that hearing process. All of the information listed in the next section of this information sheet must be submitted at the time the appeal is filed.

INFORMATION APPEAL PAPERWORK MUST CONTAIN

Appeal materials must contain the following information at the time the appeal is submitted:

- 1. *Aggrieved Status*. The appeal must explain how the appellant has standing to maintain an appeal. This requires an explanation of how the appellant may suffer a particularized injury as a result of the Commissioner's decision.
- 2. The findings, conclusions, or conditions objected to or believed to be in error. The appeal must identify the specific findings of fact, conclusions regarding compliance with the law, license conditions, or other aspects of the written license decision or of the license review process that the appellant objects to or believes to be in error.
- 3. The basis of the objections or challenge. For the objections identified in Item #2, the appeal must state why the appellant believes that the license decision is incorrect and should be modified or reversed. If possible, the appeal should cite specific evidence in the record or specific licensing requirements that the appellant believes were not properly considered or fully addressed.
- 4. *The remedy sought.* This can range from reversal of the Commissioner's decision on the license or permit to changes in specific permit conditions.
- 5. *All the matters to be contested.* The Board will limit its consideration to those matters specifically raised in the written notice of appeal.
- 6. Request for hearing. If the appellant wishes the Board to hold a public hearing on the appeal, a request for public hearing must be filed as part of the notice of appeal, and must include an offer of proof in accordance with Chapter 2. The Board will hear the arguments in favor of and in opposition to a hearing on the appeal and the presentations on the merits of an appeal at a regularly scheduled meeting. If the Board decides to hold a public hearing on an appeal, that hearing will then be scheduled for a later date.
- 7. New or additional evidence to be offered. If an appellant wants to provide evidence not previously provided to DEP staff during the DEP's review of the application, the request and the proposed evidence must be submitted with the appeal. The Board may allow new or additional evidence, referred to as supplemental evidence, to be considered in an appeal only under very limited circumstances. The proposed evidence must be relevant and material, and (a) the person seeking to add information to the record must show due diligence in bringing the evidence to the DEP's attention at the earliest possible time in the licensing process; or (b) the evidence itself must be newly discovered and therefore unable to have been presented earlier in the process. Specific requirements for supplemental evidence are found in Chapter 2 § 24.

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

- 1. Be familiar with all relevant material in the DEP record. A license application file is public information, subject to any applicable statutory exceptions, and is made easily accessible by the DEP. Upon request, the DEP will make application materials available during normal working hours, provide space to review the file, and provide an opportunity for photocopying materials. There is a charge for copies or copying services.
- 2. Be familiar with the regulations and laws under which the application was processed, and the procedural rules governing your appeal. DEP staff will provide this information on request and answer general questions regarding the appeal process.
- 3. The filing of an appeal does not operate as a stay to any decision. If a license has been granted and it has been appealed, the license normally remains in effect pending the processing of the appeal. Unless a stay of the decision is requested and granted, a license holder may proceed with a project pending the outcome of an appeal, but the license holder runs the risk of the decision being reversed or modified as a result of the appeal.

WHAT TO EXPECT ONCE YOU FILE A TIMELY APPEAL WITH THE BOARD

The Board will formally acknowledge receipt of an appeal, and will provide the name of the DEP project manager assigned to the specific appeal. The notice of appeal, any materials accepted by the Board Chair as supplementary evidence, any materials submitted in response to the appeal, and relevant excerpts from the DEP's application review file will be sent to Board members with a recommended decision from DEP staff. The appellant, the license holder if different from the appellant, and any interested persons are notified in advance of the date set for Board consideration of an appeal or request for public hearing. The appellant and the license holder will have an opportunity to address the Board at the Board meeting. With or without holding a public hearing, the Board may affirm, amend, or reverse a Commissioner decision or remand the matter to the Commissioner for further proceedings. The Board will notify the appellant, the license holder, and interested persons of its decision.

II. JUDICIAL APPEALS

Maine law generally allows aggrieved persons to appeal final Commissioner or Board licensing decisions to Maine's Superior Court (see 38 M.R.S. § 346(1); 06-096 C.M.R. ch. 2; 5 M.R.S. § 11001; and M.R. Civ. P. 80C). A party's appeal must be filed with the Superior Court within 30 days of receipt of notice of the Board's or the Commissioner's decision. For any other person, an appeal must be filed within 40 days of the date the decision was rendered. An appeal to court of a license decision regarding an expedited wind energy development, a general permit for an offshore wind energy demonstration project, or a general permit for a tidal energy demonstration project may only be taken directly to the Maine Supreme Judicial Court. See 38 M.R.S. § 346(4).

Maine's Administrative Procedure Act, DEP statutes governing a particular matter, and the Maine Rules of Civil Procedure must be consulted for the substantive and procedural details applicable to judicial appeals.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal process, for administrative appeals contact the Board's Executive Analyst at (207) 287-2452, or for judicial appeals contact the court clerk's office in which your appeal will be filed.

Note: The DEP provides this INFORMATION SHEET for general guidance only; it is not intended for use as a legal reference. Maine law governs an appellant's rights.

kball@acheronengineering.com

From: Green, Robert L < Robert.l.Green@maine.gov>

Sent: Friday, October 12, 2018 11:19 AM **To:** kball@acheronengineering.com

Subject: FW: Windham - Durant Homestead Subdivision

Good morning,

Stormwater review comments for the referenced project are provided below.

Bob.

Robert L. Green, Jr., Project Manager Bureau of Land Resources

tel: 207-615-2214 fax: 207-822-6303

From: Waddell, David A

Sent: Thursday, October 11, 2018 4:51 PM

To: Green, Robert L < Robert.l.Green@maine.gov> **Subject:** Windham - Durant Homestead Subdivision

Bob,

I have reviewed the application for Durant Homestead Subdivision, in Windham, Maine. The following list of comments are minor but need to be addressed for a final approval:

Basic Standard

- Erosion control notes need to be in the on plan sheet set.
- Silt fencing detail notes should specify that all sediment barriers must be installed along the contour.
- Sediment barriers on the location plan are shown installed crossing contours. Note that the ends of all barrier sections need to be turned upslope to retain runoff.
- Sediment barrier locations should not be shown within the concentrated flows. Plan shows the barrier across the outlets from wet ponds, cross culverts (inlet and outlets). Please correct.
- Hay bale barriers are for emergency use only. Barrier detail does not show the haybales entrenched by 4 inches.
- Hay bale check dams must be replaced by stone check dams. Detail needs to be provided.
- Locations of the stone check dams need to be shown on location plan.
- Ditch lining is fabric is implied but no detail provided or locations on location plan.

General Standard

- Buffers "E" and "O" concentrates flows within the buffer area and do not provide adequate treatment.
- Driveway locations on lots 24-26 must be located to preserve buffer integrity.
- Easements should be provided for all buffers that are not contained fully on the lots they treat.

David A. Waddell Assistant Environmental Engineer Division of Watershed Management Bureau of Water Quality 17 State House Station Augusta, ME 04333

Email: David.A.Waddell@Maine.gov

Watershed Management:

Basic Standard

• Erosion control notes need to be in the on plan sheet set.

The General Notes and Index sheet of the attached drawing package has been revised to include all erosion control notes.

• Silt fencing detail notes should specify that all sediment barriers must be installed along the contour.

Detail sheet D-2 of the attached drawing package has been revised to include a note indicated that all sediment barriers must be installed along the contour.

• Sediment barriers on the location plan are shown installed crossing contours. Note that the ends of all barrier sections need to be turned upslope to retain runoff.

Location of sediment barriers shown on sheets C-6, C-7, and C-8 have been revised to be parallel to contours, with ends turned upslope.

• Sediment barrier locations should not be shown within the concentrated flows. Plan shows the barrier across the outlets from wet ponds, cross culverts (inlet and outlets). Please correct.

Sheets C-6, C-7, and C-8 have been revised showing sediment barriers outside areas of concentrated stormwater flows.

• Hay bale barriers are for emergency use only. Barrier detail does not show the haybales entrenched by 4 inches.

The haybale barrier detail has been removed from sheet D-2.

Hay bale check dams must be replaced by stone check dams. Detail needs to be provided.

Haybale check dams have been removed and replace with stone check dams and detail added. Please see sheet C-6 and D-2.

• Locations of the stone check dams need to be shown on location plan.

Location of stone check dams are shown on C-6 and spacing table added on sheet D-2.

• Ditch lining is fabric is implied but no detail provided or locations on location plan.

Ditch lining fabric location has been added to sheet C-6 and D-2.

General Standard

• Buffers "E" and "O" concentrates flows within the buffer area and do not provide adequate treatment.

Buffers "E" and "O" have been removed from the design. To meet the required treatment level for the project, the grading for the road has been revised between station 1+34 to 2+65, so that stormwater from an additional 68 feet of road and ditches is conveyed to Wet Pond #1 for treatment. Please refer to revised drawing sheets C-4, C-5, C-7, C-9 and C-10, along with the revised portions of Section 12 of the application, attached.

• Driveway locations on lots 24-26 must be located to preserve buffer integrity.

Driveways for lots 23 and 25 have been added to sheet C-5.

• Easements should be provided for all buffers that are not contained fully on the lots they treat.

Buffer easements for the project's common area/open space will be filed when the common space is conveyed to the Durant Homestead Home Owners Association.



STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 17 STATE HOUSE STATION AUGUSTA, MAINE

04333

PAUL MERCER COMMISSIONER

Project Review Memorandum

BUREAU OF WATER QUALITY, DIVISION OF ENVIRONMENTAL ASSESSMENT

		Date:	11-7-18
To:	Robert L. Green, Jr., Project Manager	Land Div.	, Bureau of Land Resources
From:	William T. Noble, Certified Geologist	Environm	ental Geology Unit
Re:	Additional Information: Durant Homestead	Subdivisio	n, Windham,
	<i>Project №</i> . L-023215-L3-D-N.		

Review of additional and revised information on this proposed project, included with a response letter, dated 10-29-18, received on 11-5-18, has been completed. The submittal has been provided to address a project review memorandum, dated 9-17-18. Comments are as follows (comment item numbers coincide with those in the 9-17-18 review memo):

- 3. In response to this comment item, which requested logs for the SWTP series of test pits (except for SWTP 8 and SWTP-8A which were submitted), a Soil Documentation Report for Stormwater Systems, dated 12-11-17, has been provided. No further response is requested, but it is noted that logs/locations for SWTP-8 and SWTP-8A were omitted from this report (only 7 TP locations are cited), although the TPs are located at proposed Wetpond 1, as indicated on other project plans.
- 4. The label for the clay liner in the detail on plan sheet D-1 should reference General Note 9 instead of General Note 18 on drawing no. i (aka sheet 1 of 16). In addition, the label should reference the liner NOTE on plan sheet C-13.
- 7. How water will be supplied to the project should be clarified. A NOTE regarding water supply well construction has been added to plan sheet C-2 in response to this comment item, and the revised development description states that lots will have a well on each lot. However, the response letter states that there is a local requirement to provide public water to the project.
- 10. The response to this comment item indicates that a reduced separation distance between the proposed disposal field and well at lot 3 can be permitted in compliance with Table 7A of the Subsurface Wastewater Disposal Rules. Although this is provided for in the SSWD Rules, it is not clear why the proposed well location cannot simply be moved.
- 11. If the "Preliminary Subdivision Plan", which shows proposed locations of disposal fields and wells, will be recorded at the registry of deeds as is stated in the response to this comment item, then the word "preliminary" should be deleted from the title of this plan.
- 15. The response to this comment item states that an existing oil tank and other debris at the project site have been removed, but that an existing unused well (referenced in Condition 11 in a Department Order, dated 7-17-07) has not yet been abandoned. The well should be abandoned in accordance with standard industry practices (e.g. Groundwater and Wells, Johnson Division, St. Paul, MN) and/or Chapter 7 of the Well Drillers and Pump Installers Rules (10-144 CMR 232). A DEP well abandonment guidance document can also be found at https://www.maine.gov/dep/ spills/publications/guidance/documents/dep_well_abandonment_guidance.pdf. This requirement could be attached as a condition of the site location approval of this project. A notice or report should be provided when this task has been completed.

lwndurant2.docx





Acheron

Engineering, Environmental & Geologic Consultants

www.AcheronEngineering.com

November 28, 2018

Robert Green Maine Department of Environmental Protection 312 Canco Road Portland, Maine 04103

RE: Site Location of Development Permit Application, Project L-023215-L3-D-N, Response to Comments by the Environmental Geology Unit for the Durant Homestead, Residential Subdivision, Windham, Maine

Mr. Green:

Below are responses to review comments by the Environmental Geology Unit, dated November 7, 2018. Review comments are in italic font followed by Matt Hancock Properties, LLC response in regular font.

Environmental Geology Unit:

4. The label for the clay liner in the detail on plan sheet D-1 should reference General Note 9 in-stead of General Note 18 on drawing no. i (aka sheet 1 of 16). In addition, the label should reference the liner NOTE on plan sheet C-13.

Plan sheet D-1 and C-13 have been revised and are attached.

7. How water will be supplied to the project should be clarified. A NOTE regarding water supply well construction has been added to plan sheet C-2 in response to this comment item, and the revised development description states that lots will have a well on each lot. However, the response letter states that there is a local requirement to provide public water to the project.

Water will be supplied to the project by individual wells on each lot. The local requirement to provide public water was triggered if the project included 26 residential lots. This requirement is the reason for reduction of the lots from 26 to 25.

10. The response to this comment item indicates that a reduced separation distance between the proposed disposal field and well at lot 3 can be permitted in compliance with Table 7A of the Subsurface Wastewater Disposal Rules. Although this is provided for in the SSWD Rules, it is not clear why the proposed well location cannot simply be moved.

Movement of the well within Lot #3 will either not meet the SSWD set back requirements from disposal systems on the surrounding lots or will be in an area with potentially elevated nitrate levels from Lot#21.

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11. If the "Preliminary Subdivision Plan", which shows proposed locations of disposal fields and wells, will be recorded at the registry of deeds as is stated in the response to this comment item, then the word "preliminary" should be deleted from the title of this plan.

The Town of Windham recently approved the Major Subdivision Preliminary Application for the project. Matt Hancock Properties will file a Major Subdivision Final Application with the Town of Windham, once all other applicable permits are obtained for the project. At the time of filing, the word "preliminary" will be removed from the plan to be recorded.

15. The response to this comment item states that an existing oil tank and other debris at the project site have been removed, but that an existing unused well (referenced in Condition 11 in a Depart-ment Order, dated 7-17-07) has not yet been abandoned. The well should be abandoned in accordance with standard industry practices (e.g. Groundwater and Wells, Johnson Division, St. Paul, MN) and/or Chapter 7 of the Well Drillers and Pump Installers Rules (10-144 CMR 232). A DEP well abandonment guidance document can also be found at

https://www.maine.gov/dep/spills/publications/guidance/documents/dep_well_abandonm ent_guidance.pdf. This require-ment could be attached as a condition of the site location approval of this project. A notice or report should be provided when this task has been completed.

No further comment required from Matt Hancock Properties.

Please let me know if you have any questions or concerns and please advise how the department will handle a refund of the permit fee, due to the reduction of the number of lots.

Sincerely, Acheron

Kirk J. Ball, PE

Meal

Enclosure: Revised Plans C-13 & D-1, (2)

Cc: Matt Hancock, MHP David Fowler, MHP



STATE OF MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE 284 STATE STREET 41 STATE HOUSE STATION AUGUSTA ME 04333-0041

CHANDLER E. WOODCOCK

June 21, 2017

Aleita Burman Burman Land & Tree Company, LLC P.O. Box 145 Orrington, ME 04474

RE: Information Request - 60 Chute Road subdivision, Windham

Dear Lee:

Per your request received June 16, 2017, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information for known locations of Endangered, Threatened, and Special Concern species; designated Essential and Significant Wildlife Habitats; and fisheries habitat concerns within the vicinity of the 60 Chute Road subdivision Project in Windham.

Our Department has not mapped any Essential Habitats that would be directly affected by your project.

Endangered, Threatened, and Special Concern Species

Bats

Of the eight species of bats that occur in Maine, the three *Myotis* species are protected under Maine's Endangered Species Act (MESA) and are afforded special protection under 12 M.R.S §12801 - §12810. The three *Myotis* species include little brown bat (*M. lucifugus*, State Endangered); northern long-eared bat (*M. septentrionalis*, State Endangered); and eastern small-footed bat (*M. leibii*, State Threatened). The five remaining bat species are listed as Special Concern: big brown bat (*Eptesicus fuscus*); red bat (*Lasiurus borealis*), hoary bat (*Lasiurus cinereus*), silver-haired bat (*Lasionycteris noctivagans*), and tricolored bat (*Perimyotis subflavus*).

While a comprehensive statewide inventory for bats has not been completed, it is likely that several of these species occur within the project area during migration and/or the breeding season. We recommend that you contact the U.S. Fish and Wildlife Service--Maine Fish and Wildlife Complex (Wende Mahaney, 207-902-1569) for further guidance, as the northern long-eared bat is also listed as a Threatened Species under the Federal Endangered Species Act. Otherwise, our Agency does not anticipate significant impacts to any of the bat species as a result of this project.

Significant Wildlife Habitat

Significant Vernal Pools

At this time, MDIFW Significant Wildlife Habitat (SWH) maps indicate no known presence of SWHs within the project area, which include Waterfowl and Wading Bird Habitats, Deer Wintering Areas, Seabird Nesting Islands, Shorebird Areas, and Significant Vernal Pools. However, a comprehensive statewide inventory for Significant Vernal Pools has not been completed. Therefore, we strongly recommend that surveys for vernal pools be conducted within the project boundary by qualified wetland scientists prior to final project design to determine whether there are Significant Vernal Pools present in the area. These surveys should extend up to 250 feet beyond the anticipated project footprint because of potential performance standard requirements for off-site Significant Vernal Pools, assuming such pools are located on land owned or controlled by the applicant. Once surveys are completed, our Department will need to review and verify any vernal pool data prior to final determination of significance.

Fisheries Habitat

Without details, it is difficult to know what impacts your project may have on the mapped streams within the search area. That being said, MDIFW makes the following general recommendations as they pertain to streams.

We recommend that a 100-foot undisturbed vegetated buffer be maintained along these streams. Buffers should be measured from the edge of stream or associated fringe and floodplain wetlands. Maintaining and enhancing buffers along streams that support coldwater fisheries is critical to the protection of water temperatures, water quality, natural inputs of coarse woody debris, and various forms of aquatic life necessary to support conditions required by many fish species. Stream crossings should be avoided, but if a stream crossing is necessary, or an existing crossing needs to be modified, it should be designed to provide full fish passage. Small streams, including intermittent streams, can provide crucial rearing habitat, cold water for thermal refugia, and abundant food for juvenile salmonids on a seasonal basis and undersized crossings may inhibit these functions. Generally, MDIFW recommends that all new, modified, and replacement stream crossings be sized to span 1.2 times the bankfull width of the stream. In addition, we generally recommend that stream crossings be open bottomed (i.e. natural bottom), although embedded structures which are backfilled with representative streambed material have been shown to be effective in not only providing habitat connectivity for fish but also for other aquatic organisms. We encourage you to contact our Region A Fisheries staff (207-657-2345) for crossing design recommendations that best maintain fish passage. Construction Best Management Practices should be closely followed to avoid erosion, sedimentation, alteration of stream flow, and other impacts as eroding soils from construction activities can travel significant distances as well as transport other pollutants resulting in direct impacts to fish and fisheries habitat. In addition, we recommend that any necessary instream work occur between July 15 and October 1.

This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance we recommend additional consultation with the municipality, and other state resource agencies including the Maine Natural Areas Program and Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance.

Letter to Aleita Burman Comments RE: 60 Chute Road subdivision, Windham June 21, 2017

Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,

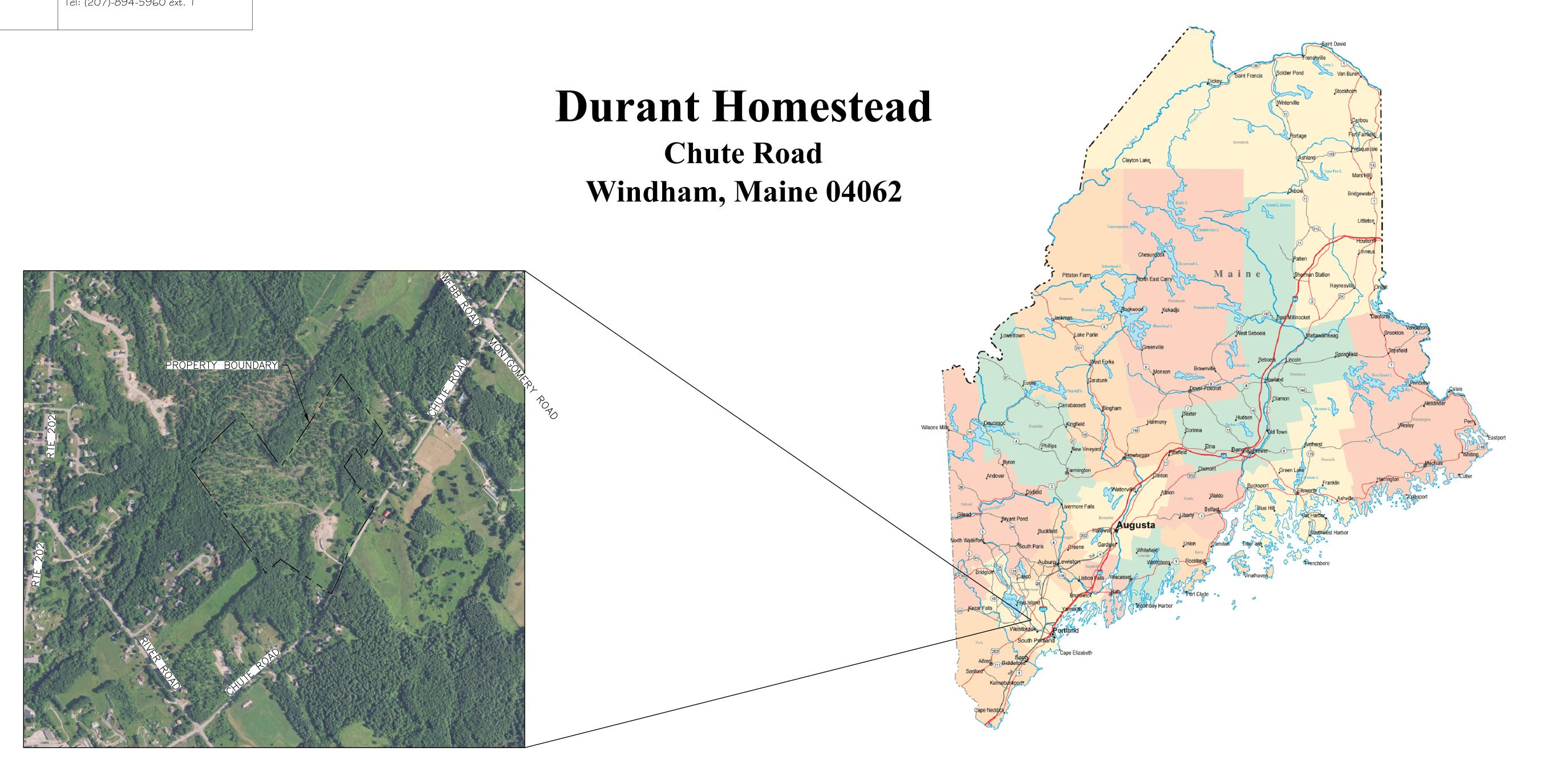
John Perry

Environmental Review Coordinator

Matt Hancock Properties

PO. Box 295 Casco, Maine 04015

Owner Matt Hancock Properties PO. Box 295 Casco, Maine 04015 Tel: (207)-	Engineer of Record Kirk J. Ball, P.E. Acheron Engineering Services I 47 Main Street Newport, ME 04953 Tel: 207-368-5700
Boundry Survey Plisga & Day 72 Main Street Bangor, ME. 04401 Tel: (207)-947-0019	Code Enforcement Director Town of Windham Christopher Hanson 8 School Road Windham, ME. 04062 Tel: (207)-894-5960 ext. 1



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Acheron International, Inc.

GENERAL NOTES:

- 1. THE TERM "INSPECTION" BY THE ENGINEERS AS USED HEREIN SHALL MEAN, INCLUDE AND BE LIMITED TO THE FOLLOWING:
- VISUAL OBSERVATION OF WORK COMPLETED BY THE CONTRACTOR.
- MEASUREMENTS OF PHYSICAL FEATURES AND COMPONENTS COMPLETED BY THE CONTRACTOR, USING SURVEYING EQUIPMENT TYPICALLY USED BY ENGINEERS AND
- OBSERVATIONS OF LABELS ON MATERIALS AND EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- THE PURPOSE OF THE "INSPECTION" BY THE ENGINEER IS TO DETERMINE IF THE FINISHED WORK (AS-BUILT CONDITION) BY THE CONTRACTOR IS IN REASONABLE CONFORMITY WITH THE DIMENSIONS, ELEVATIONS AND CONFIGURATION DEPICTED BY THE DESIGN DRAWINGS AND SPECIFICATIONS OR ANY WRITTEN ADDENDUM. REASONABLE CONFORMITY RECOGNIZES THAT THERE IS A TOLERANCE THAT IS GENERALLY ACCEPTED OF EACH OF THE TYPES OF CONSTRUCTION WORK
- DEPICTED ON THE DESIGN DRAWINGS.

 2. ACHERON ENGINEERING HAS USED A REASONABLE STANDARD OF CARE TO TRY TO LOCATE UNDERGROUND FACILITIES IN THE VICINITY OF THIS PROJECT. LOCATIONS OF UNDERGROUND FACILITIES DEPICTED ON THESE DRAWINGS ARE APPROXIMATE. EXCAVATORS MUST COMPLY WITH ALL REQUIREMENTS OF TITLE 23 SECTION 3360, PROTECTION OF UNDERGROUND FACILITIES, BEFORE COMMENCING OPERATIONS.
- 3. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES; STORAGE PRACTICES TO MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP AND IMPLEMENT, AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT AND RESPONSE PLANNING MEASURES.
- 4. ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. FOR OIL SPILLS, CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-482-4664 WHICH IS AVAILABLE 24 HOURS A DAY. FOR MORE INFORMATION VISIT THE MEDEP WEBSITE AT: WWW.maine.gov/dep/spills/emergspillresp/
- 5. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE—TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE AND CONSEQUENT FLOODING AND DESTABILIZATION. NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY M.R.S.A. §465—C (1).
- 6. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIAL TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE. NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION AND POSTCONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL AND HAZARDOUS WASTES, INCLUDING BUT NOT LIMITED TO, THE MAINE SOLID WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE RULES; MAINE OIL CONVEYANCE AND STORAGE RULES AND MAINE PESTICIDE REQUIREMENTS.
- 7. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE; DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED), DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHDOWN (NOT INCLUDING PAINT REMOVAL, NO DETERGENTS), PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED, NO DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING AND LANDSCAPE IRRIGATION.
- 8. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE MENTIONED IN GENERAL NOTE 7 SPECIFICALLY. THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE DISCHARGE OF THE FOLLOWING; WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OIL, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS, SOLVENTS OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR RELEASE.
- 9. WET PONDS: INSPECTION BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE INSTALLATION OF EACH POND'S EMBANKMENT CONSTRUCTION, STORMWATER INLET, UNDERDRAIN GRAVEL OUTLET, GRAVEL OUTLET FILTER MATERIAL MAKEUP AND PLACEMENT, OUTLET CONTROL STRUCTURE, CLAY LINER (IF APPLICABLE), AND EMERGENCY SPILLWAY FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE POND.
- CLAY LINER MINIMUM THICKNESS = 1.5'
- PLACE LINER IN 9" LOOSE LIFTS.
- COMPACT LINER TO 95% STANDARD PROCTOR DENSITY PER ASTM D-2434
- MINIMUM LINER PERMEABILITY 1×10^{-6} CM/SEC PER ASTM D-2432
- LINER PLASTICITY INDEX NOT LESS THAN 15% PER ASTM D-423/424
- SEE SHEET D-1 FOR MINIMUM AND MAXIMUM GRAIN SIZE DISTRIBUTION FOR CLAY LINER. CONTRACTOR TO PROVIDE ALL TESTING RESULTS TO OWNER AND ENGINEER FOR APPROVAL.

EROSION CONTROL NOTES:

- 1. DURING CONSTRUCTION USE PRECAUTION TO AVOID ANY EROSION AND TO PREVENT SILTING OF OCEANS, RIVERS, STREAMS, LAKES, RESERVOIRS, IMPOUNDMENTS, AND DRAINAGE DITCHES AND SWALES.
- 2. CONSTRUCTION SEQUENCE
- INSTALL TEMPORARY EROSION CONTROL MEASURES.
- CLEAR STORMWATER MANAGEMENT AREAS AND ROAD.
- STOCKPILE AND SEED ANY DISTURBED AREAS.
- CONSTRUCT STORMWATER MANAGEMENT FACILITIES.
 CLIT/FILL ROADWAY TO SUBGRADE.
- CUT/FILL ROADWAY TO SUBGRADE.CONSTRUCT ROADWAY DITCHES AND STABILIZE.
- INSTALL UNDERGROUND UTILITIES.
- FINAL GRADING AND RESEEDING OF DISTURBED AREAS.
- REMOVE EROSION CONTROL DEVICES PENDING SUFFICIENT GROWTH IN SEEDED AREAS.
- 3. ALL CONSTRUCTION ACTIVITIES SHOULD FOLLOW GUIDANCE AS PRESENTED IN "MAINE EROSION AND SEDIMENT CONTROL PRACTICES, FIELD GUIDE FOR CONTRACTORS" PUBLISHED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 2014.
- 4. MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR EROSION AND SEDIMENTATION CONTROL AND MAINTENANCE.
- 5. CONSTRUCTION OVERSIGHT: THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION MAY REQUIRE THIRD—PARTY INSPECTIONS OF THE DEVELOPMENT'S EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION AND IMMEDIATELY AFTER FINAL STABILIZATION. IN ALL CASES THE THIRD—PARTY INSPECTION PROGRAM, TO BE IMPLEMENTED BY THE APPLICANT, MUST COMPLY WITH THE "SPECIAL CONDITIONS FOR THIRD—PARTY INSPECTION PROGRAM" THAT WILL BE INCORPORATED AS PART OF THE DEPARTMENT ORDER ISSUED FOR THE DEVELOPMENT.
- 6. LOCATE AND MARK ALL PROJECT BOUNDARIES PRIOR TO CONSTRUCTION.
- 7. LIMIT THE AMOUNT OF DISTURBANCE AT ANY ONE TIME.
- 8. MARK ALL SOIL DISTURBANCE LIMITS AND INSTALL SEDIMENT BARRIERS PRIOR TO DISTURBING SOILS.
- 9. MULCH EXPOSED SOIL AS SOON AS POSSIBLE, AND REVEGETATE AS SOON AS FINAL GRADE IS ATTAINED.
- 10. INSPECT AND REPAIR EROSION CONTROL AND SEDIMENT TRAPPING MEASURES WEEKLY AND AFTER EVERY STORM EVENT.
- 11. REMOVE TEMPORARY EROSION CONTROLS WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.
- 12. STABILIZE DITCHES WITHIN 24 HOURS OF FINAL GRADE.
- 13. ALL FILL MATERIAL MUST BE FREE OF FROZEN SOIL, ROCKS OVER 6-INCHES, SOD, BRUSH, STUMPS, TREE ROOTS, WOOD OR OTHER PERISHABLE MATERIALS.
- 14. INSTALL SEDIMENT BARRIERS DOWN SLOPE OF SOIL STOCK PILES.
- 15. DO NOT SITE SOIL STOCK PILE IN AREAS OF CONCENTRATED STORMWATER FLOW OR AREAS OF POTENTIAL FLOODING.
- 16. THE DURATION OF EXPOSURE OF UNCOMPLETED CUT SLOPES, EMBANKMENTS, TRENCH EXCAVATIONS, AND SITE GRADED AREAS SHALL BE MINIMIZED. INITIATE SEEDING AND OTHER EROSION CONTROL MEASURES ON EACH SEGMENT AS SOON AS REASONABLY POSSIBLE.

- 17. SHOULD IT BECOME NECESSARY TO SUSPEND CONSTRUCTION FOR MORE THAN 7 DAYS, SHAPE AND STABILIZE ALL EXCAVATED AND GRADED AREAS. PROVIDE AND MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS BERMS, DIKES, SLOPE DRAINS, SILT STOPS, AND SEDIMENTATION BASINS, UNTIL PERMANENT DRAINAGE FACILITIES OR EROSION CONTROL FEATURES HAVE BEEN COMPLETED AND ARE OPERATIVE. IF DISTURBED AREAS ARE WITHIN 75 FEET OF A WETLAND OR WATERBODY, STABILIZE DISTURBANCE WITHIN 48 HOURS OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
- 18. FINE MATERIAL PLACED OR EXPOSED DURING THE WORK SHALL BE HANDLED AND TREATED AS TO MINIMIZE THE POSSIBILITY OF IT REACHING ANY SURFACE WATERS. USE DIVERSION CHANNELS, DIKES, SEDIMENT TRAPS, OR ANY OTHER EFFECTIVE AND APPROVED CONTROL MEASURES.
- 19. PROVIDE SILT STOPS WHEREVER EROSION CONTROL MEASURES MAY NOT BE TOTALLY CAPABLE OF CONTROLLING EROSION, SUCH AS IN DRAINAGE CHANNELS AND WHERE STEEP SLOPES MAY EXIST.
- O. BEFORE WATER IS ALLOWED TO FLOW IN ANY DITCH, SWALE, OR CHANNEL, INSTALL THE PERMANENT EROSION CONTROL MEASURES IN THE WATERWAY SO THAT THE WATERWAY WILL BE SAFE AGAINST EROSION.
- 21. TAKE SPECIAL PRECAUTIONS IN THE USE OF CONSTRUCTION EQUIPMENT TO MINIMIZE EROSION. DO NOT LEAVE WHEEL TRACKS WHERE EROSION MIGHT BEGIN.
- 22. MULCHING SHALL FOLLOW THE SEEDING OPERATION BY NOT MORE THAN 24 HOURS.
- 23. SHOULD ANY PROTECTIVE MEASURES EMPLOYED INDICATE ANY DEFICIENCIES OR EROSION TAKING PLACE, IMMEDIATELY PROVIDE ADDITIONAL MATERIALS OR EMPLOY DIFFERENT TECHNIQUES TO CORRECT THE SITUATION AND TO PREVENT SUBSEQUENT EROSION.
- 24. DISTURBANCE WITHIN 30 FEET OF ANY PROTECTED NATURAL RESOURCE WILL REQUIRE DOUBLING THE PERIMETER EROSION CONTROLS AND DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS.
- 25. CONTINUE EROSION CONTROL MEASURES UNTIL THE PERMANENT MEASURES HAVE BEEN SUFFICIENTLY ESTABLISHED AND ARE CAPABLE OF CONTROLLING EROSION ON THEIR OWN.
- 26. REMOVE ALL TEMPORARY CONTROL MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.
- 27. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE BEST MANAGEMENT PRACTICES OF MAINE AS PREPARED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 28. AREAS CONTAINING EXPOSED SOILS MUST BE STABILIZED WITHIN 7 DAYS OF CESSATION OF AN ACTIVITY.
- 29. BEGIN PERMANENT STABILIZATION WITHIN 7 DAYS OF OBTAINING FINAL GRADE.
- 30. WINTERIZATION SCHEDULE
 - ALL STONE LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH.
 - ALL STONE COVERED SLOPES SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH.
 - ALL DISTURBED SLOPES HAVING A SLOPE LESS THAN 15% TO BE SEEDED AND MULCHED BY SEPTEMBER 15TH.
 - ALL VEGETATED SLOPE GREATER THAN 15% TO BE SEED AND MULCHED BY SEPTEMBER 1ST.
 - ALL VEGETATED DITCHES AND CHANNELS TO BE SEEDED AND MULCHED BY SEPTEMBER 1ST.
- 31. SITE WINTERIZATION
 - IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR VEGETATED SLOPES, THEN BY OCTOBER 1ST THE SLOPE SHALL BE SEEDED WITH WINTER RYE AT THE RATE OF 3 POUNDS PER 1000 SQUARE FEET AND COVERED WITH EROSION CONTROL MATS OR ANCHORED MULCH. IF RYE FAILS TO GROW 3 INCHES BY NOVEMBER 1ST THE SLOPE SHALL BE COVERED WITH AN EROSION CONTROL MIX OR COVERED WITH STONE RIPRAP.
 - IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR GRASSED LINED DITCHES, THEN A SOD OR STONE LINING SHALL BE INSTALLED.
 - IF THE SEPTEMBER 15TH DEADLINE CANNOT BE MET FOR DISTURBED AREAS WITH A SLOPE LESS THAN 15%, THEN BY NOVEMBER 15TH MULCH AREAS AT A RATE OF 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH.
- 32. WINTER CONSTRUCTION

PROTECTION."

- WINTER CONSTRUCTION IS CONSTRUCTION ACTIVITY PERFORMED BETWEEN NOVEMBER 1ST AND APRIL 15TH.
- IF AN AREA IS NOT STABILIZED IN ACCORDANCE WITH THE ABOVE SCHEDULE OR PERMANENTLY STABILIZED THAN ADDITIONAL STABILIZATION MEASURES MUST BE
- PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION, PAVEMENT, GRAVEL BASE OR RIPRAP.
- APPLY HAY MULCH AT 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH.
- USE MULCH AND NETTING OR AN EROSION CONTROL BLANKET OR MIX ON ALL SLOPES GRATER THAT 8 PERCENT.
- INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3 PERCENT.
- WINTER EXCAVATION AND EARTH WORK SHALL NOT EXPOSE MORE THAN 1 ACRE OF THE SITE WITHOUT STABILIZATION AT ANY ONE TIME.
- IN AN AREA WITHIN 75 FEET OF A NATURAL PROTECTED RESOURCE, DOUBLE ROW SEDIMENT BARRIERS SHALL BE INSTALLED.
 TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT. BUT AFTER EVERY WORKING DAY IN AREAS WITHIN
- TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKING DAY IN AREAS V 75 FEET OF A NATURAL PROTECTED RESOURCE.
- AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE MULCHED THE SAME DAY.
- NO MULCH SHALL BE SPREAD OVER SNOW. SNOW SHALL BE REMOVED WITHIN ONE QUARTER INCH PRIOR TO MULCHING.
- LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE BEING APPLIED.
- INSPECT PERIODICALLY AND AFTER EACH STORM TO CHECK FOR EROSION AND REPAIR IMMEDIATELY.
 IN SPRING, REMOVE ANY EXCESS MULCH, SEED AND MONITOR FOR EROSION AND PLANT GROWTH.
- 33. EXCAVATION DE-WATERING: EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFERDAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE
- 34. A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE—WATERING FOLLOWING HEAVY RAINFALL OR WHERE THE EXCAVATION MY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. PRIOR TO ANY DEWATERING ACTIVITIES SUBMIT A DEWATERING PLAN TO OWNER AND ENGINEER FOR APPROVAL. FILTER ALL PUMPED WATER THROUGH SOIL FILTER BAG (DIRT BAG) AS SHOWN ON THE EROSION CONTROL PLAN.

MAINE DEP. NOTE: DEWATERING CONTROLS ARE DISCUSSED IN THE "MAINE EROSION AND SEDIMENT CONTROL BMPS, MAINE DEPARTMENT OF ENVIRONMENTAL

- J5. FUGITIVE SEDIMENT AND DUST: ACTION MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF—SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE PER WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.
- 36. IN LIEU OF SILT FENCE, EROSION CONTROL MIX CAN BE USED IF THE FOLLOWING CONDITIONS ARE MET.
 - FOLLOW GUIDELINE IN THE MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE, 2014.
 - THE EROSION CONTROL MIX BERM SHOULD BE MINIMUM OF 12" HIGH AND A MINIMUM OF 2' WIDE. ON STEEPER SLOPES, THE BERM WILL NEED TO BE WIDER AND HIGHER. BERMS COMPOSED OF EROSION CONTROL MIX CAN BE SHAPED WHEN NECESSARY.
 - THE EROSION CONTROL MIX MUST BE WELL-GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO ROCKS LARGER THAN 4" OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS). IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR PROCESSES WOOD PRODUCTS).
- 37. SEEDING:
 - COMPLETE SEEDING WITHIN 7 DAYS OF FINAL GRADING.
 - BROADCAST SEED OVER ENTIRE DITCH AND SURFACE AND RAKE INTO SOIL.
 APPLY HAY MULCH TO ALL SEEDED AREAS.
 - SUMMER SEEDING DATES ARE FROM APRIL 1 TO SEPTEMBER 15.
 - PERMANENT SEEDING SHOULD BE DONE 45 DAYS BEFORE A KILLING FROST.
 - THE SEED MIXTURE SHOULD BE PROPORTIONED BY WEIGHT AS FOLLOWS:
 - POUNDS/ACRE
 KENTUCKY BLUEGRASS 20
 CREEPING RED FESCUE 20
 PERENNIAL RYE GRASS 5
- . MULCHING:
- APPLY TEMPORARY MULCH ON DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE OR PRIOR TO ANY STORM.
- DO NOT APPLY EROSION CONTROL MIX OR HAY MULCH IN CONCENTRATED WATER FLOWS.
- DO NOT USE EROSION CONTROL MIX OR HAY MULCH FOR SLOPES STEEP THAN 2:1.
 USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDED AREAS.
- APPLY AT A RATE OF TWO SQUARE BALES (70-90 POUNDS) PER 1,000 SQUARE FEET.

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KIRK J.
BALL
No. 11681

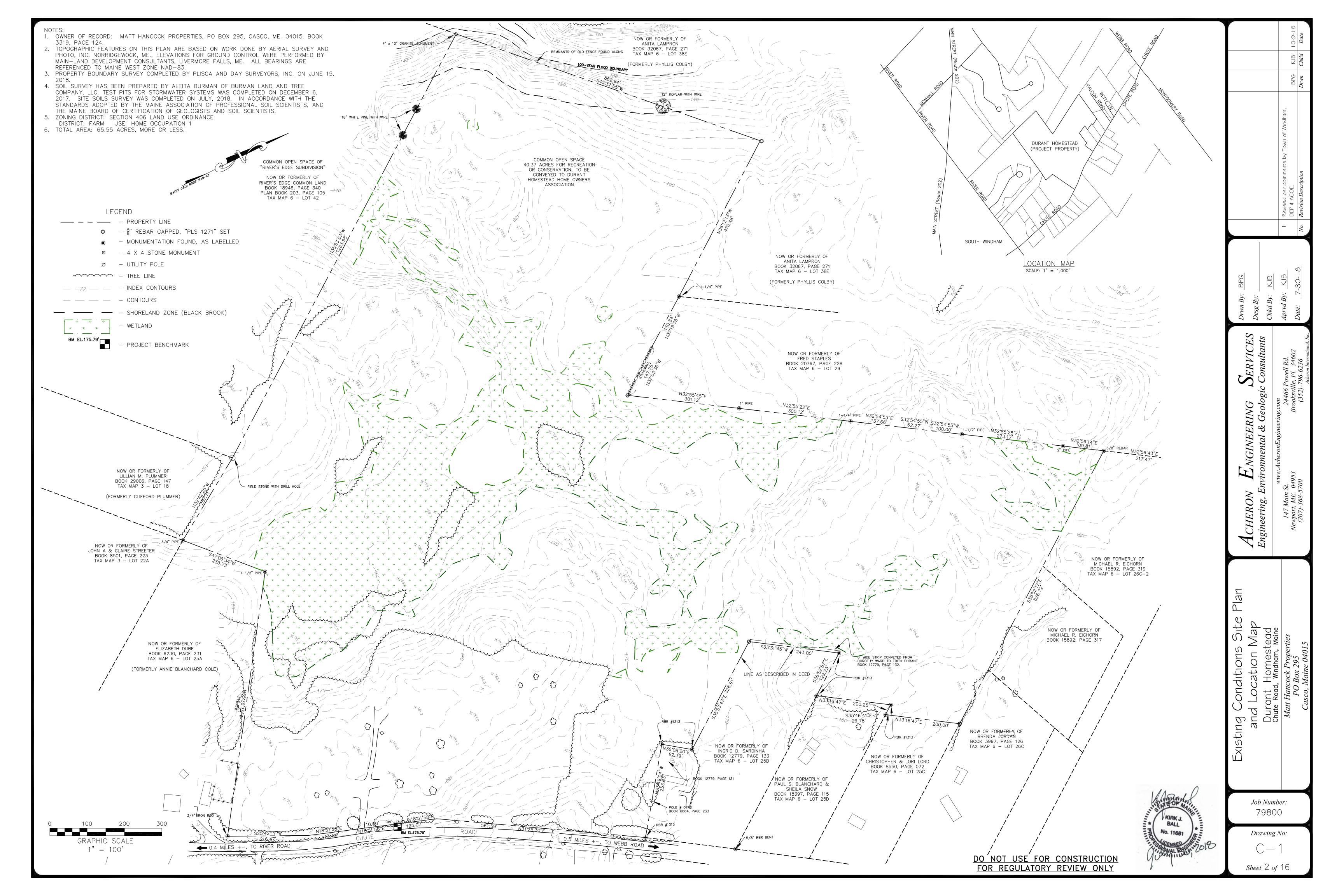
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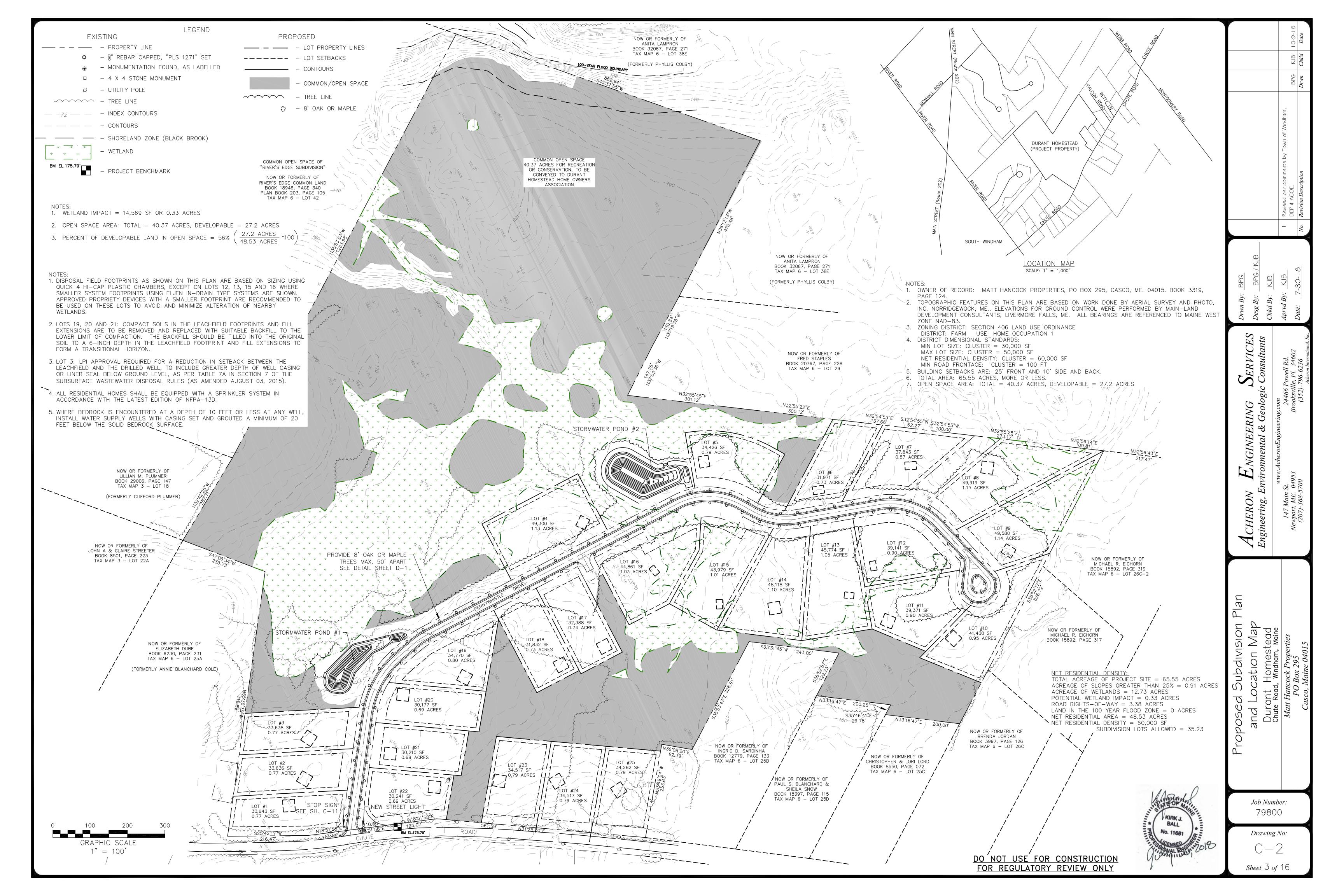
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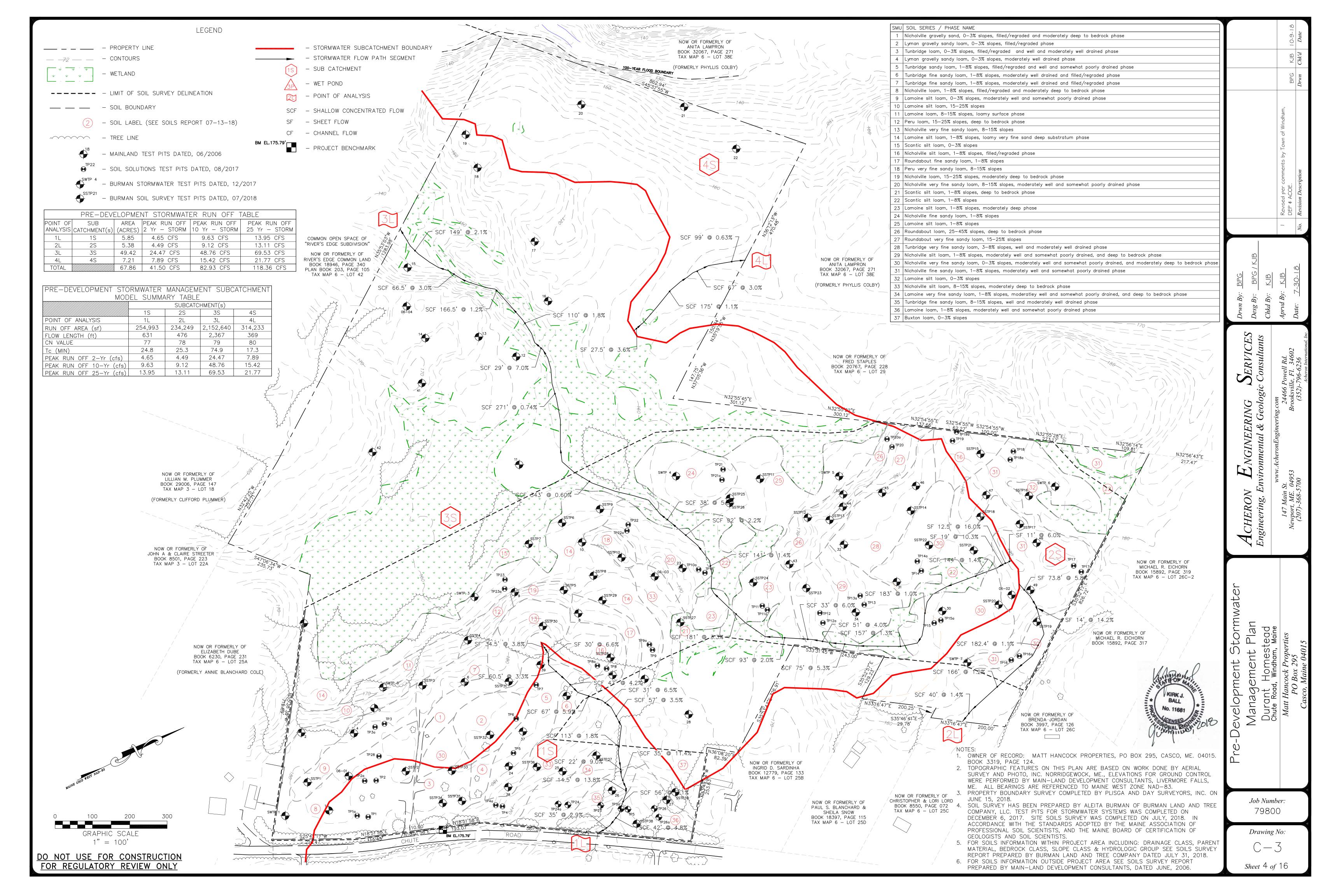
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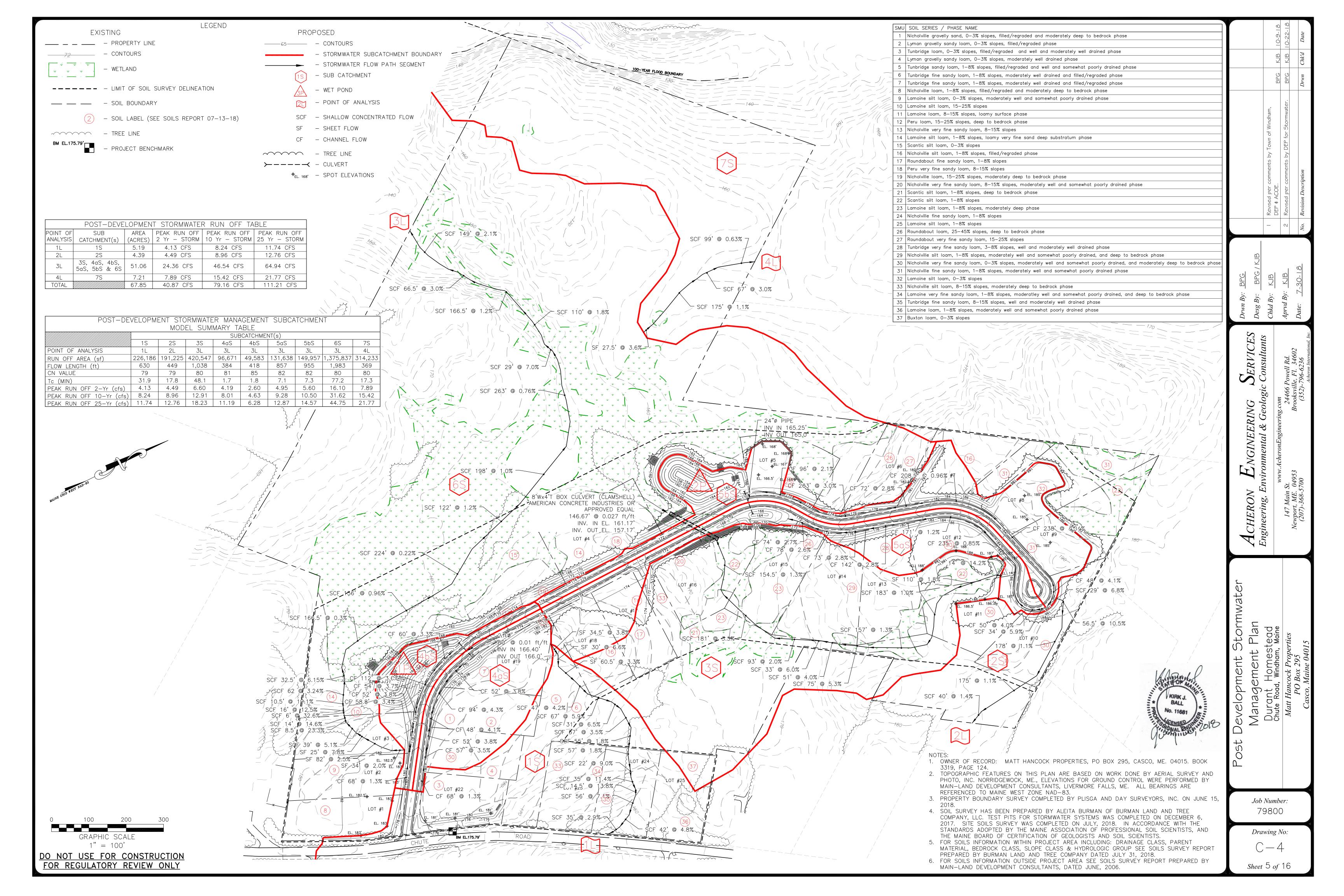
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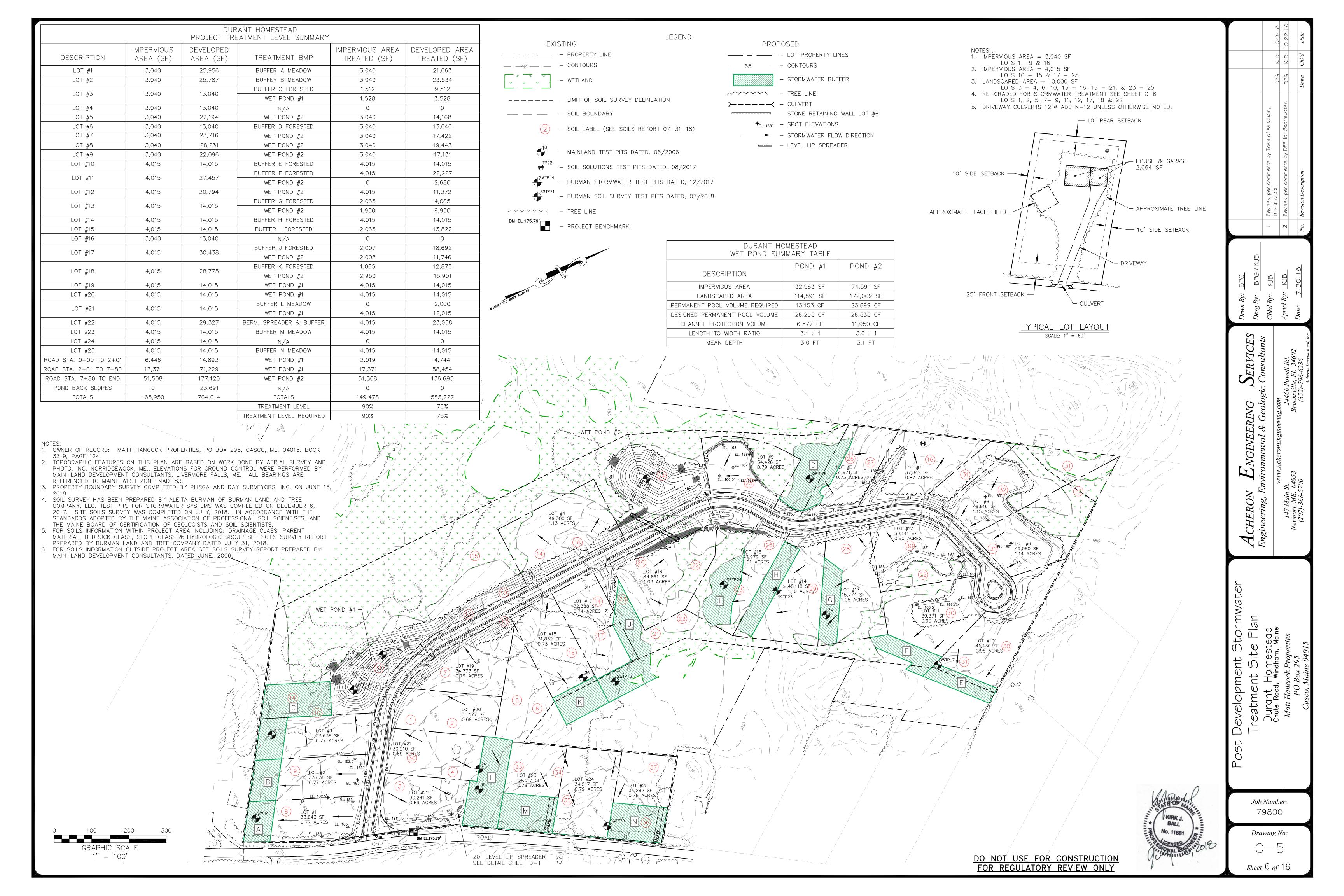
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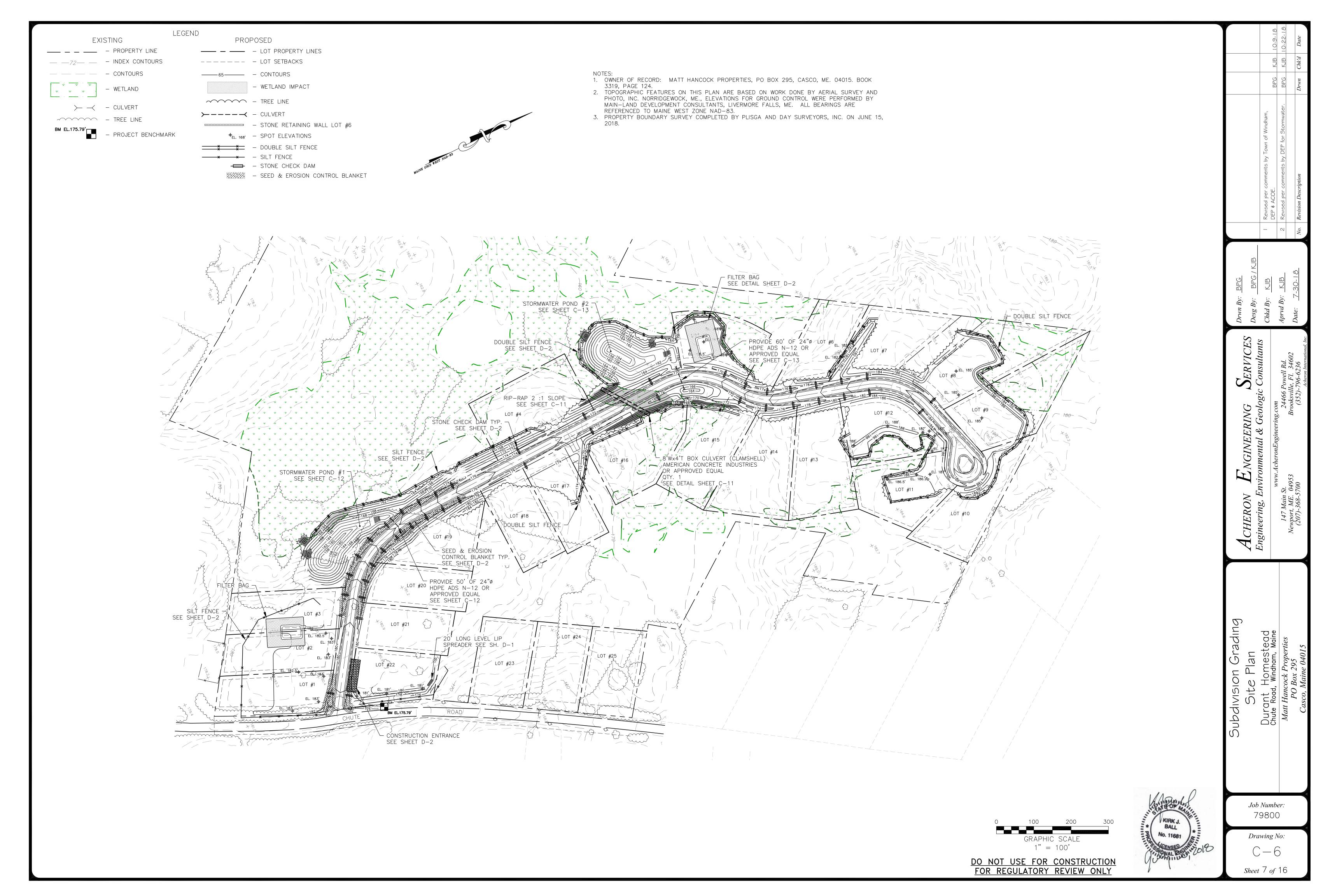


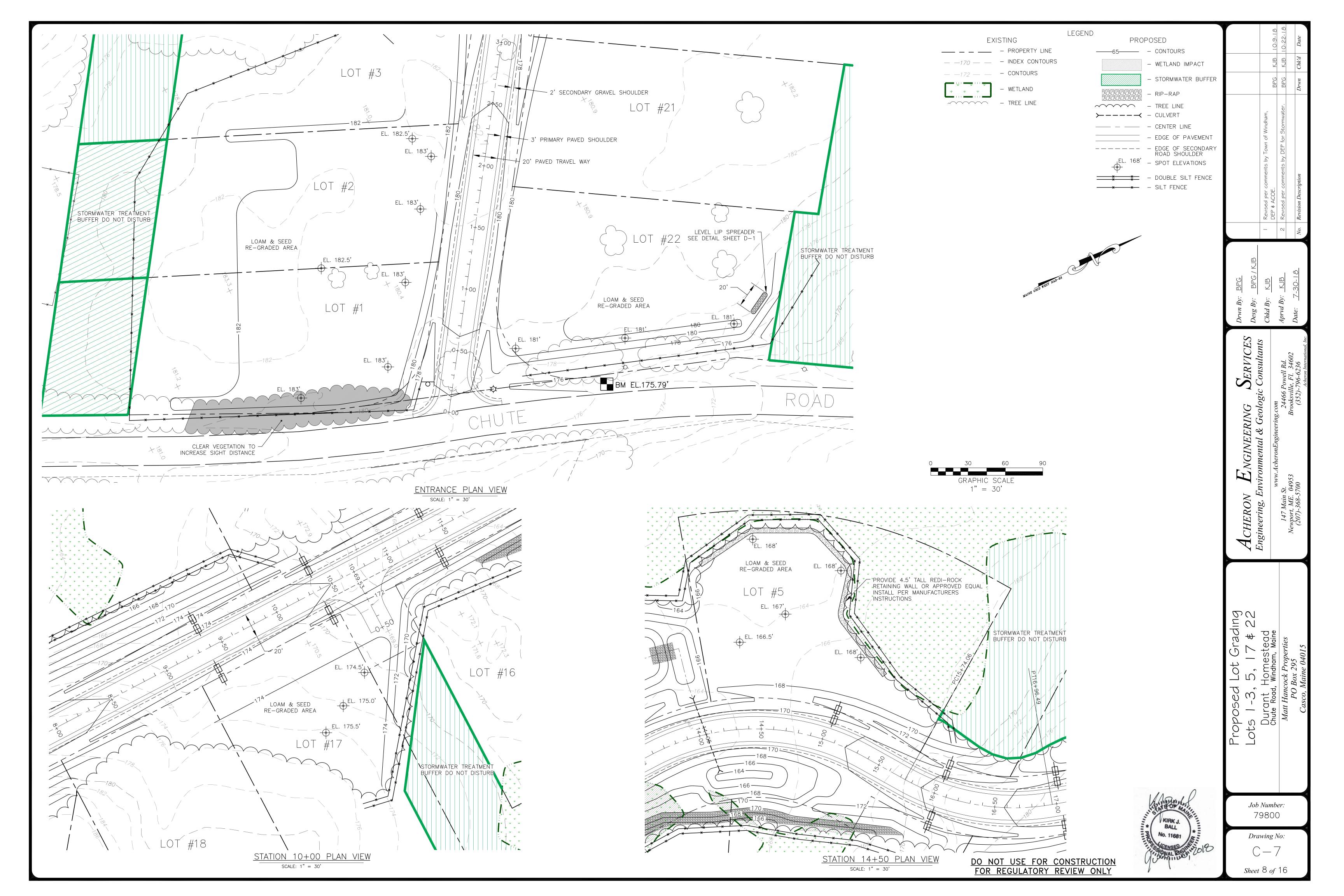


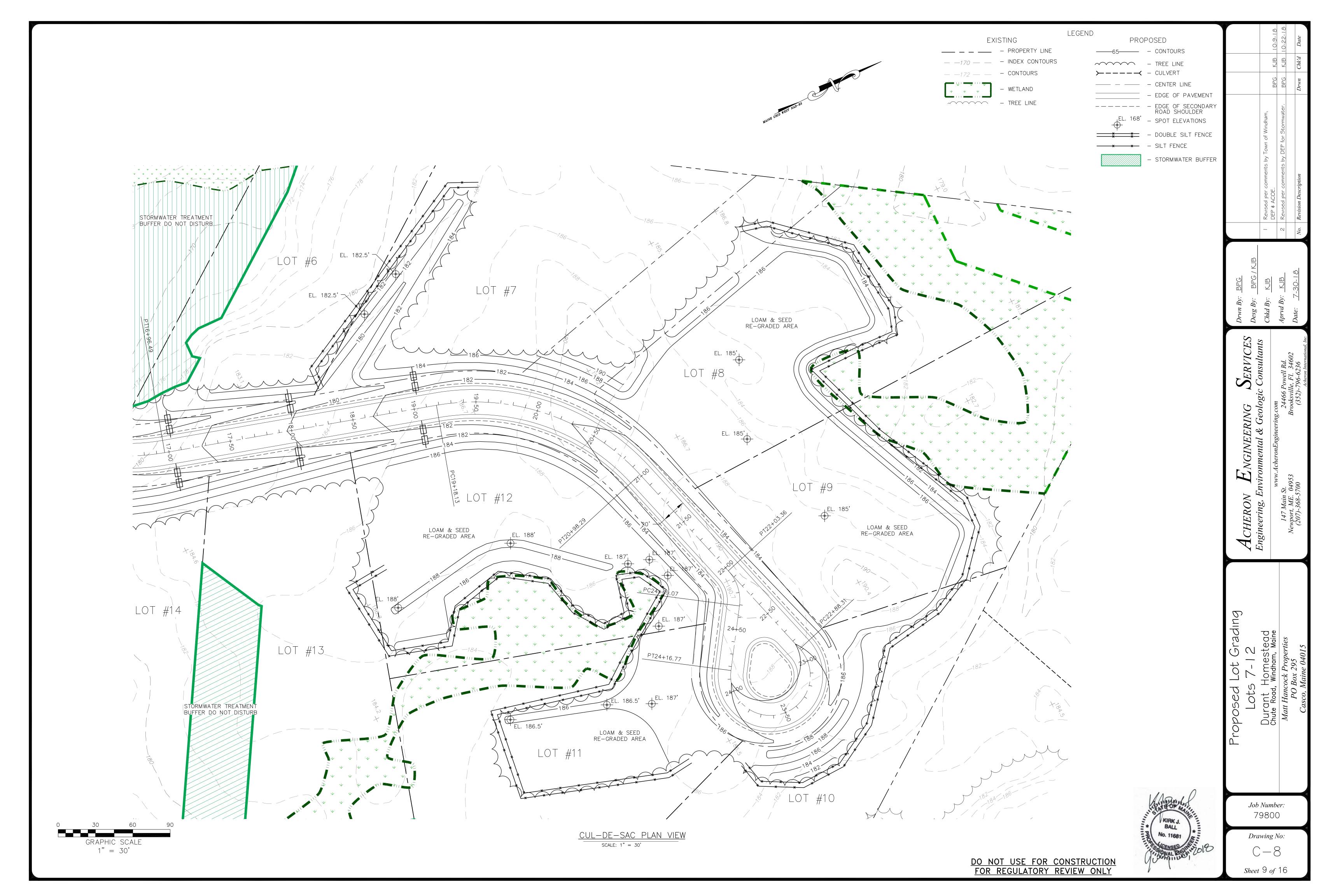


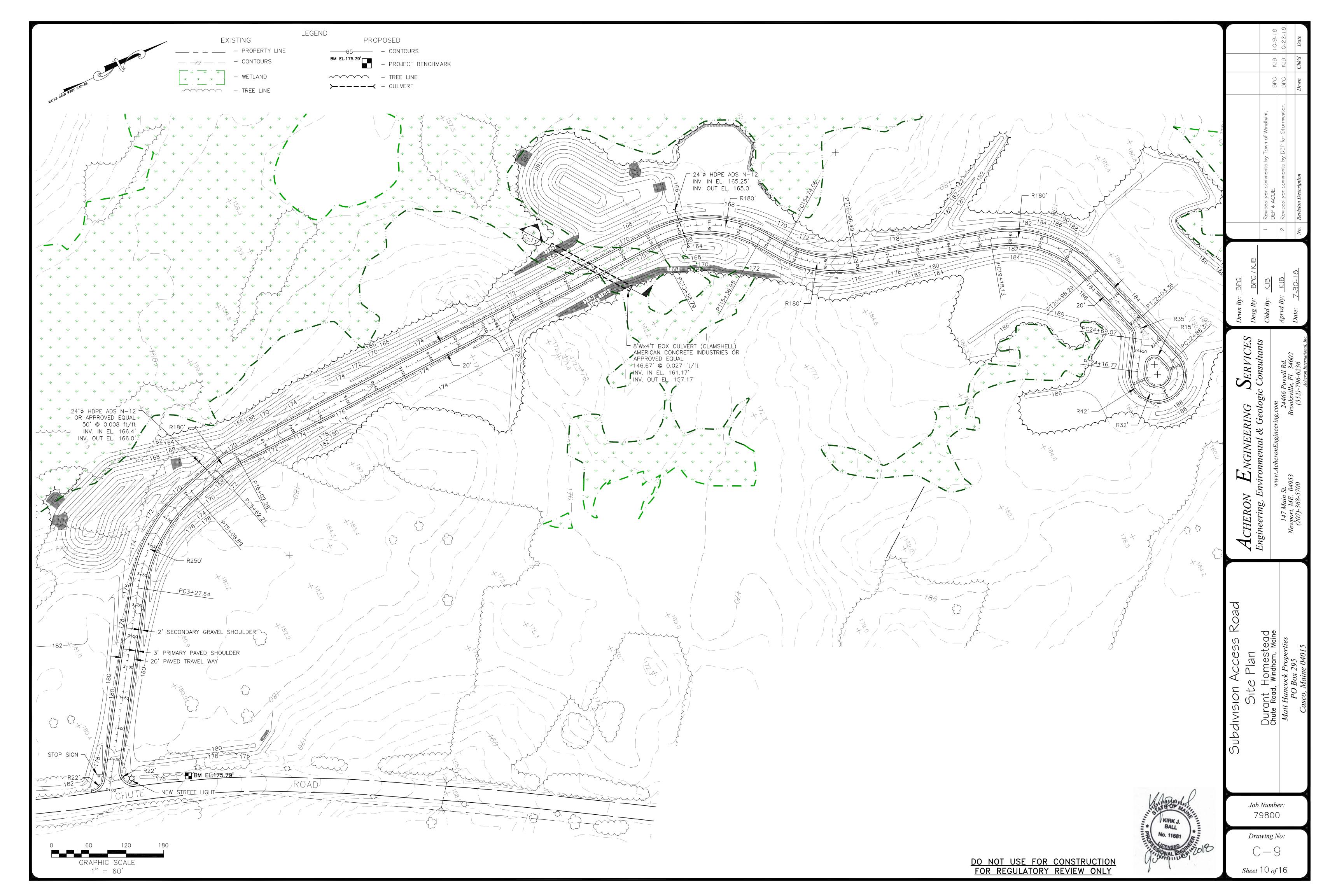


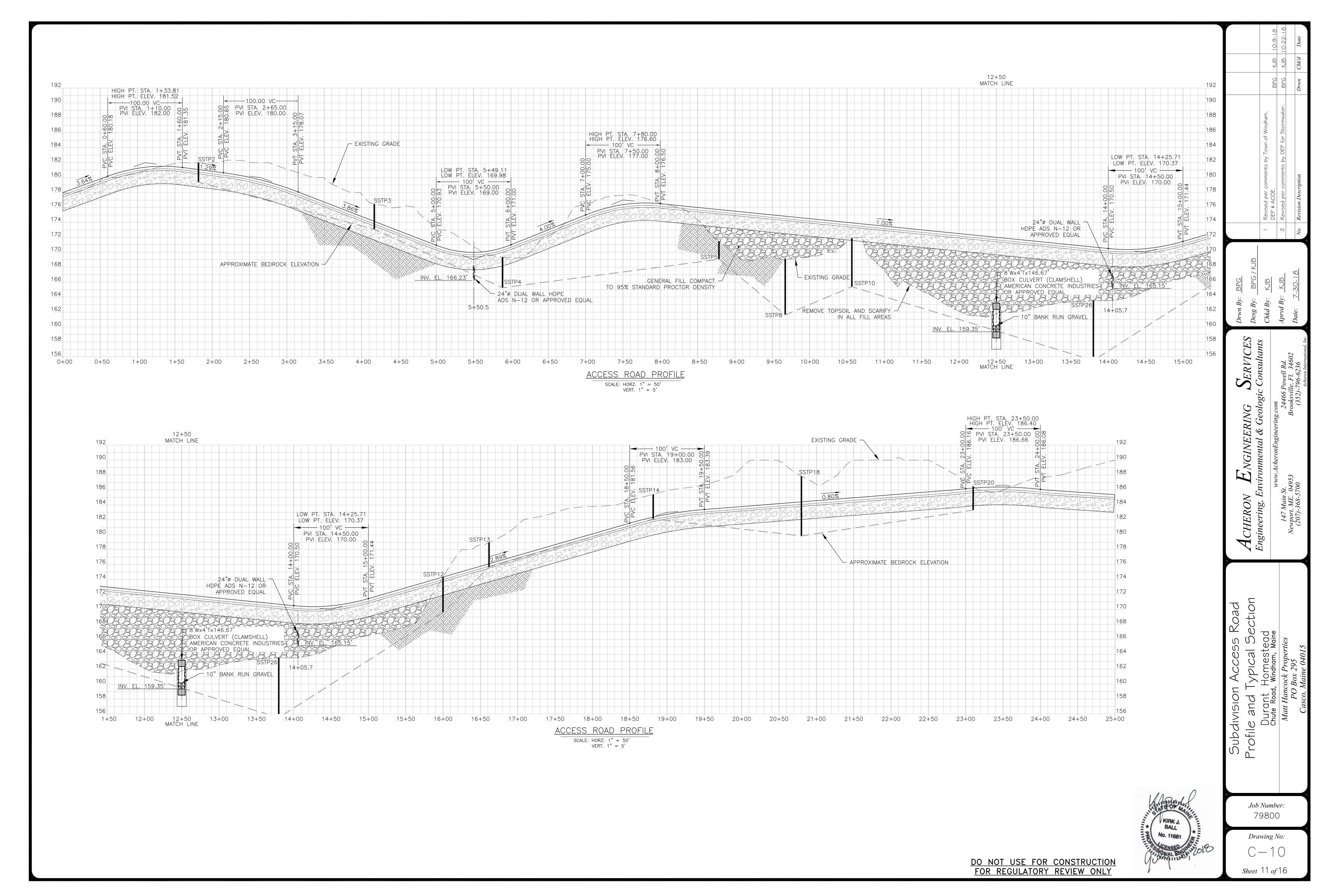












NON WOVEN GEO-TEXTILE FABRIC TYP.

COMPACT TO 95% -

STANDARD PROCTOR DENSITY

4" LOAM & SEED -

1.5" BITUMINOUS SURFACE COURSE

- 3.0" CRUSHED AGGREGATE BASE COURSE

2.5" BITUMINOUS BASE COURSE

L 21" AGGREGATE SUB-BASE COURSE

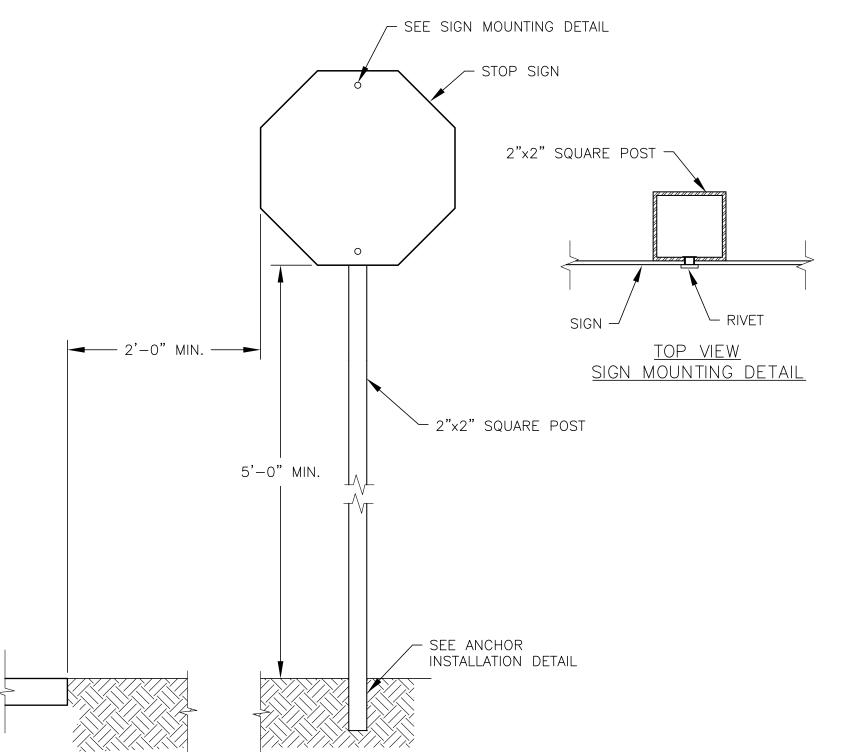
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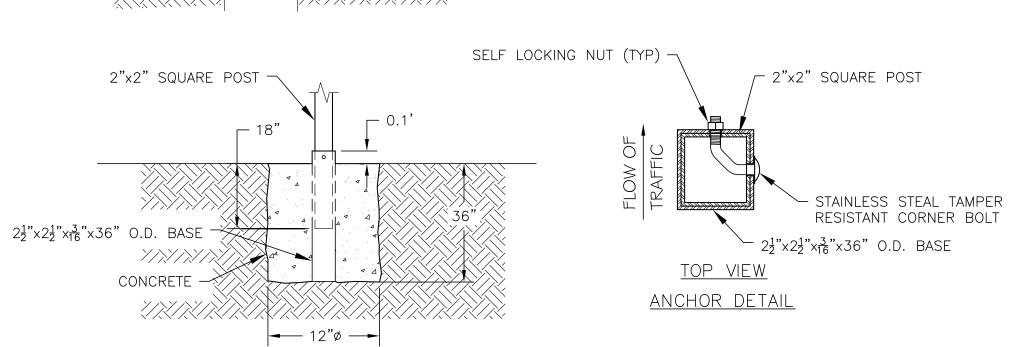
MDOT HMA 19.0mm

MDOT 703.06 TYPE A

MDOT 703.06 TYPE D

ACCESS ROAD CROSS SECTION SCALE: 1" = 5'





ANCHOR INSTALLATION DETAIL

SIGN POST DETAIL NOT TO SCALE

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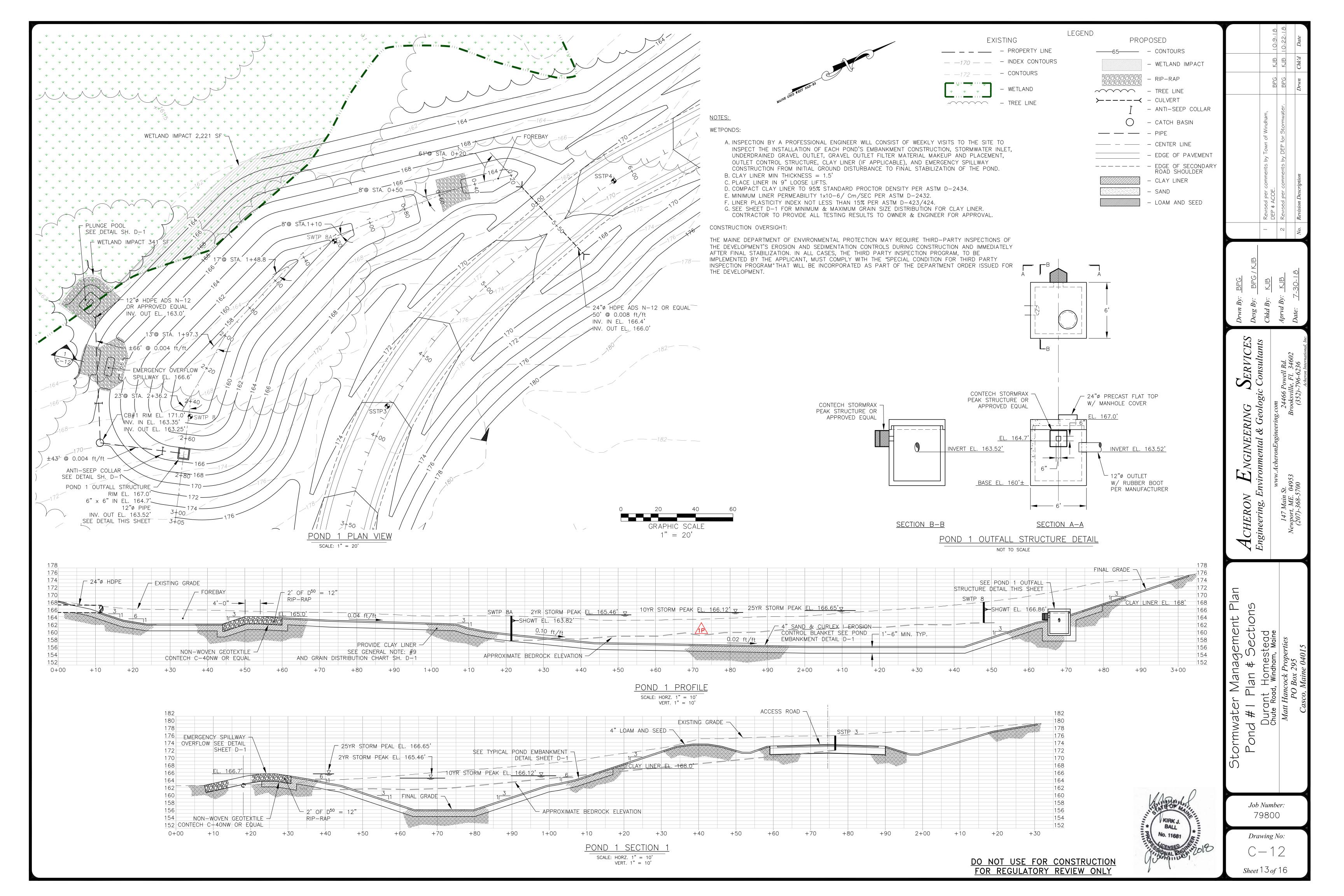


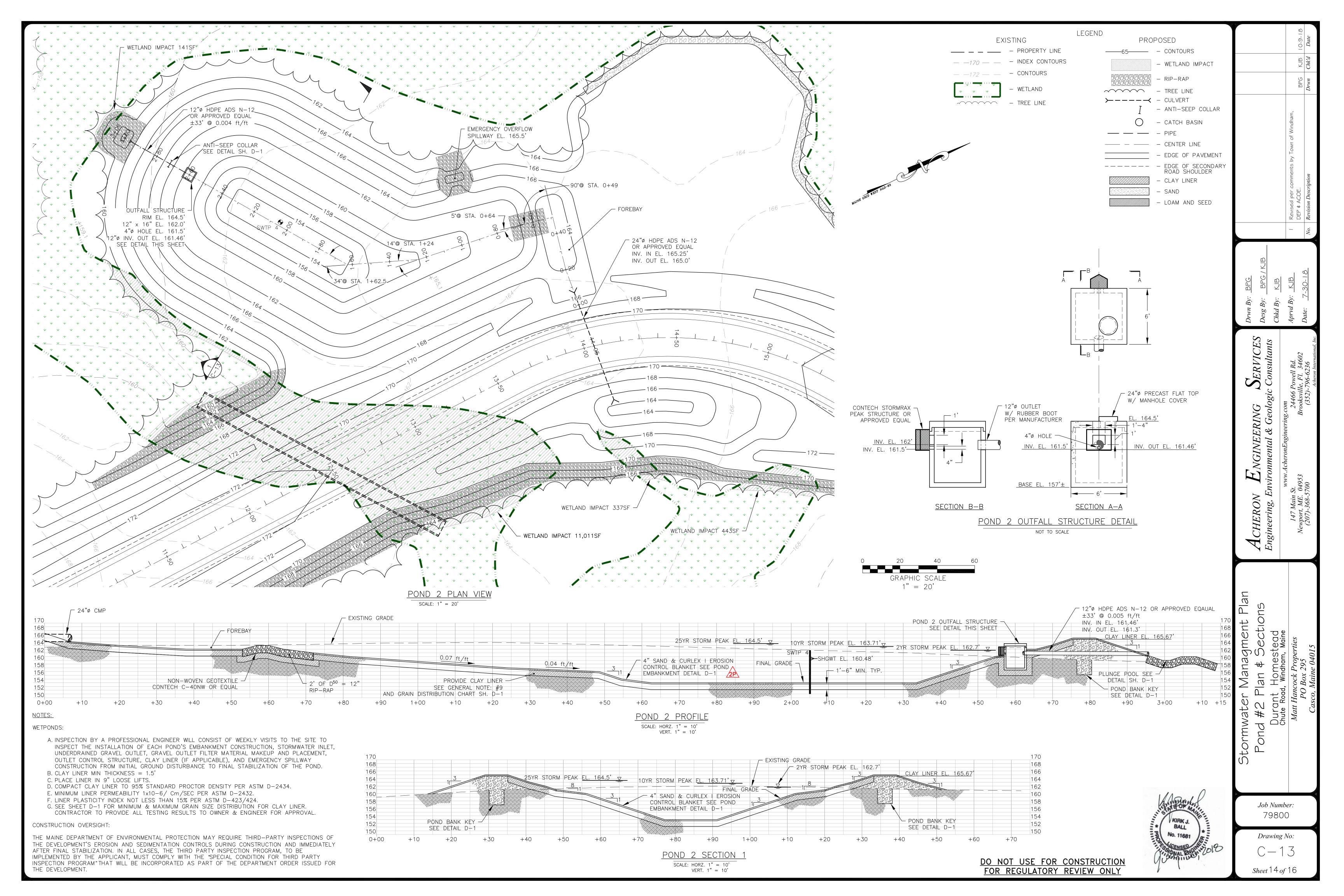
				-
	Subdivision Access Road		٥	7
Ja	Typical Section and Culvert Crossing	ACHERON LNGINEERING	ERING DERVICES	
ob Λ		Engineering, Environmental & Geologic Consultants	& Geologic Consultants	
Tun	Durant Hornestead))	- 1
nbe	Chute Road, Windham, Maine	www.AcheronEngineering.com	ineering.com	
r:	Matt Hancock Properties	147 Main St.	24466 Powell Rd.	
	PO Box 295	Newport, ME. 04953	Brooksville, Fl. 34602	
•	Casco. Maine 04015	(207)-368-5700	(332)-/90-0230	•
			Acheron mendional, mc.	

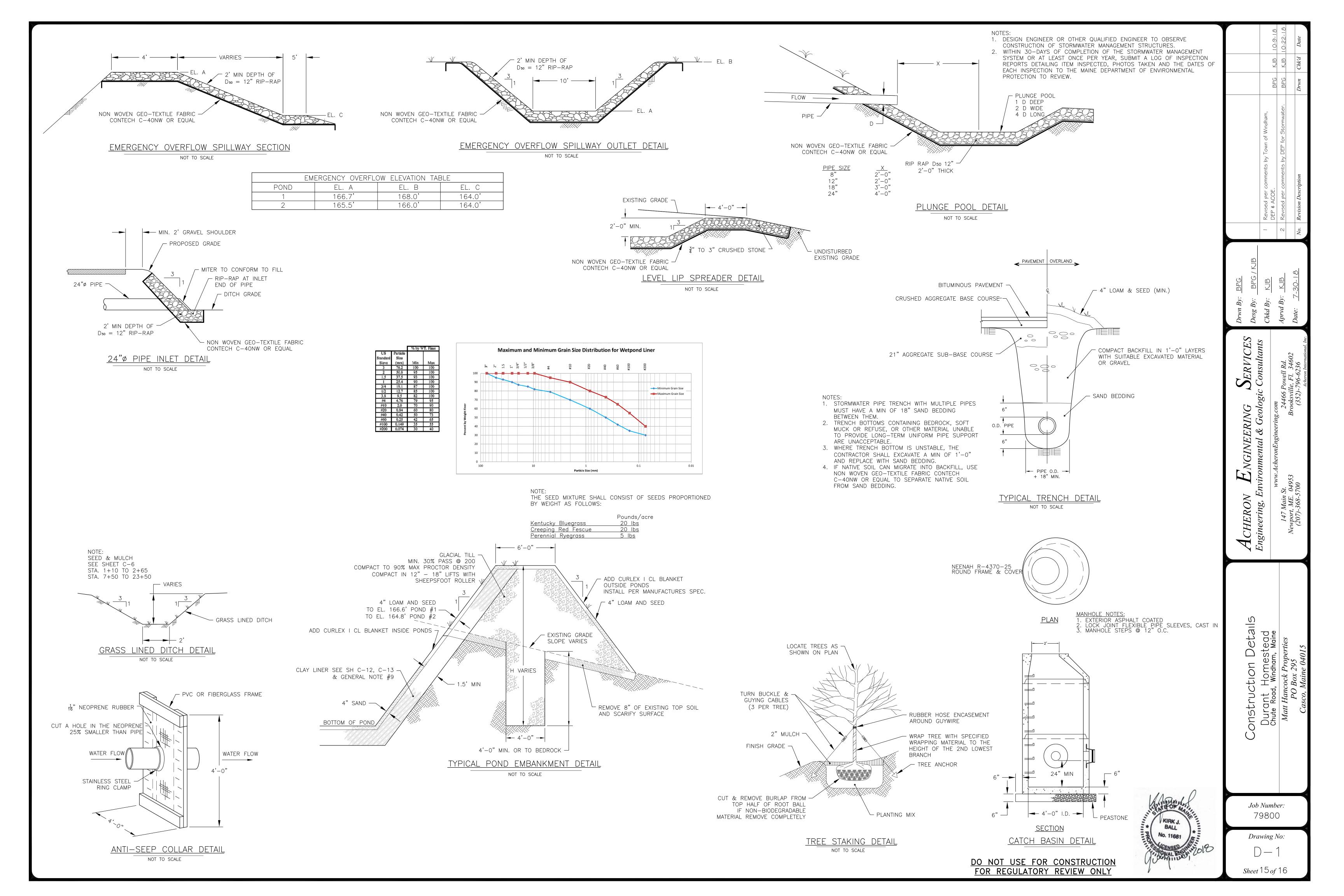
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Drawing No:

Sheet 12 *of* 16

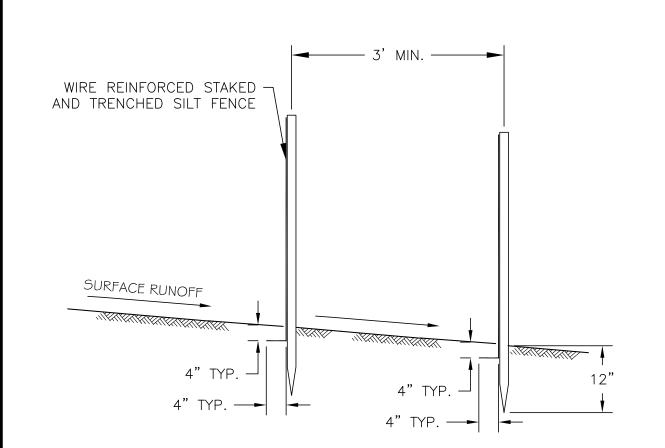






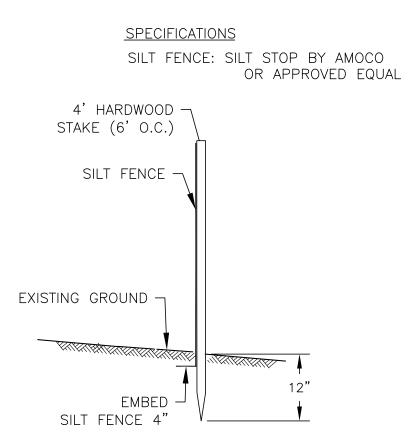
SILT FENCE SPECIFICATIONS:

- 1. SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO SOIL DISTURBANCE.
- 2. ALL BARRIERS SHOULD BE INSTALLED ON THE LAND CONTOUR AND EACH END CURVED UPHILL TO PREVENT BYPASS AND RETAIN RUNOFF.



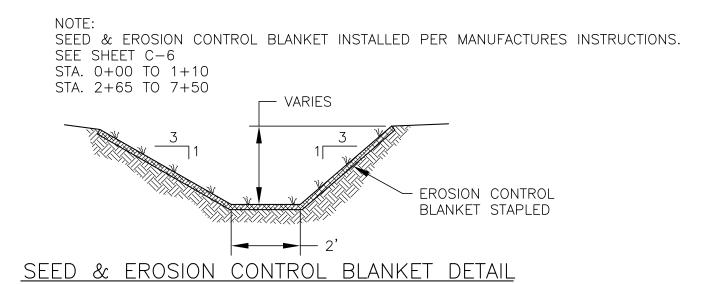
DOUBLE ROW STAKED SILT FENCE DETAIL

NOT TO SCALE



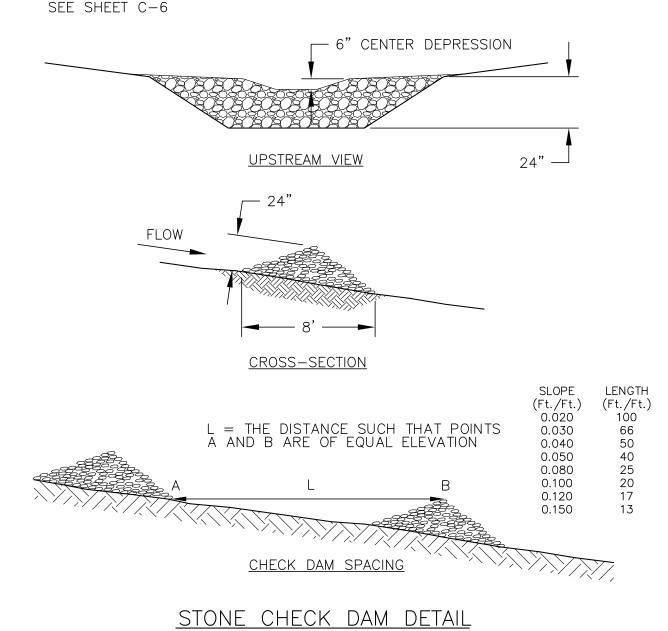
SILT FENCE DETAIL

NOT TO SCALE



NOT TO SCALE

NOTE: KEY CHECK DAM INTO BANKS AND EXTEND 18" MINIMUM TO PREVENT BYPASS. SEE SHEET C-6



NOT TO SCALE

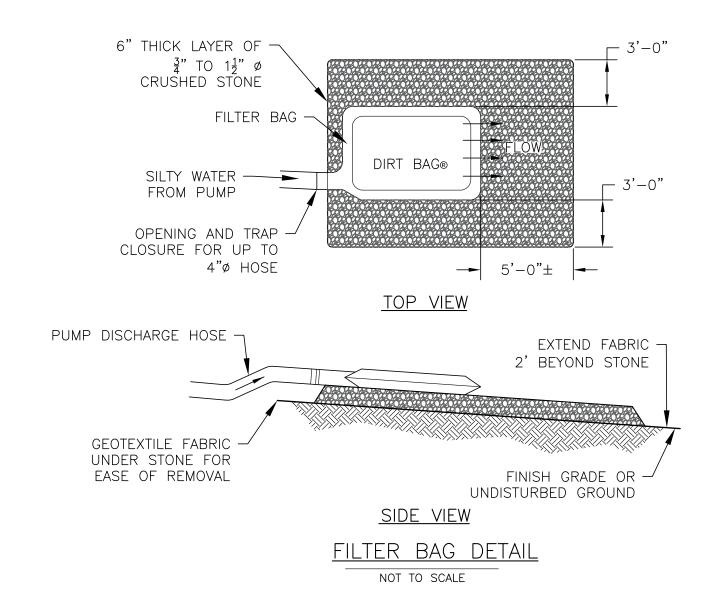
IN LIEU OF SILT FENCE EROSION CONTROL MIX CAN BE USED IF CONDITIONS

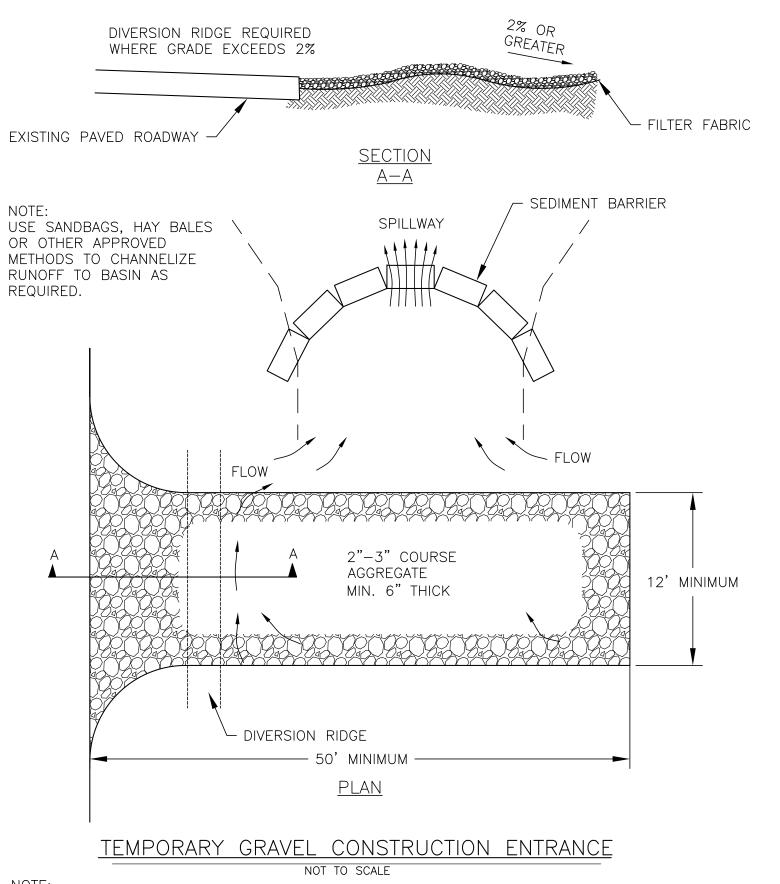
BELOW ARE MET:
EROSION CONTROL MIX MAY NOT BE USED WITHIN 20 FT OF A WETLAND.
FOLLOW MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE 2014.
EROSION CONTROL MIX BERM:

THE ECM BERM SHOULD BE A MINIMUM OF 12" HIGH AND A MINIMUM OF TWO FEET WIDE. ON LONGER OR STEEPER SLOPES, THE BERM WILL NEED TO BE WIDER AND HIGHER. BERMS COMPOSED OF ECM CAN BE RESHAPED WHEN NECESSARY. EROSION CONTROL MIX:

THE MIX MUST BE WELL—GRADED WITH AN ORGANIC COMPONENT THAT IS

BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO LARGER ROCKS (>4") OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS). IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS).





1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



Subdivision Access Road

Erosion Control Details

Durant Homestead
Chute Road, Windham, Maine

Matt Hancock Properties

Job Number: 79800 Drawing No:

Sheet 16 *of* 16

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Mandatory Plan Information

