

Granite State Landfill, LLC

Granite State Landfill

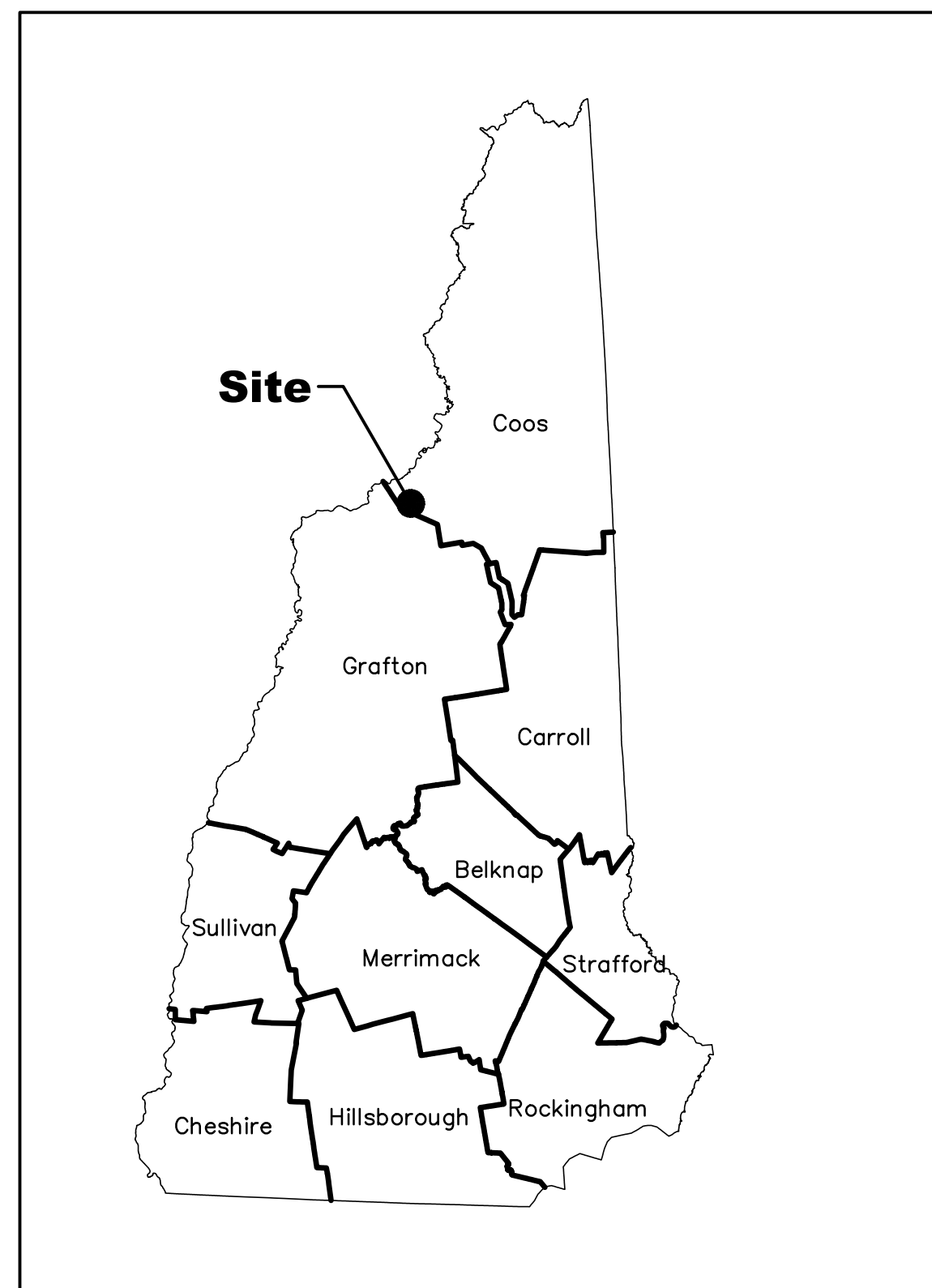
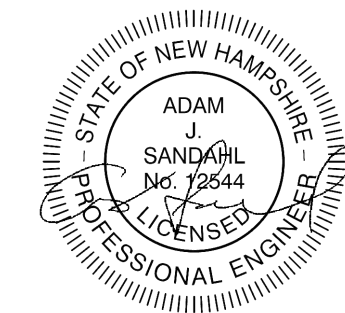
Dalton, New Hampshire

Permitting Plan Set

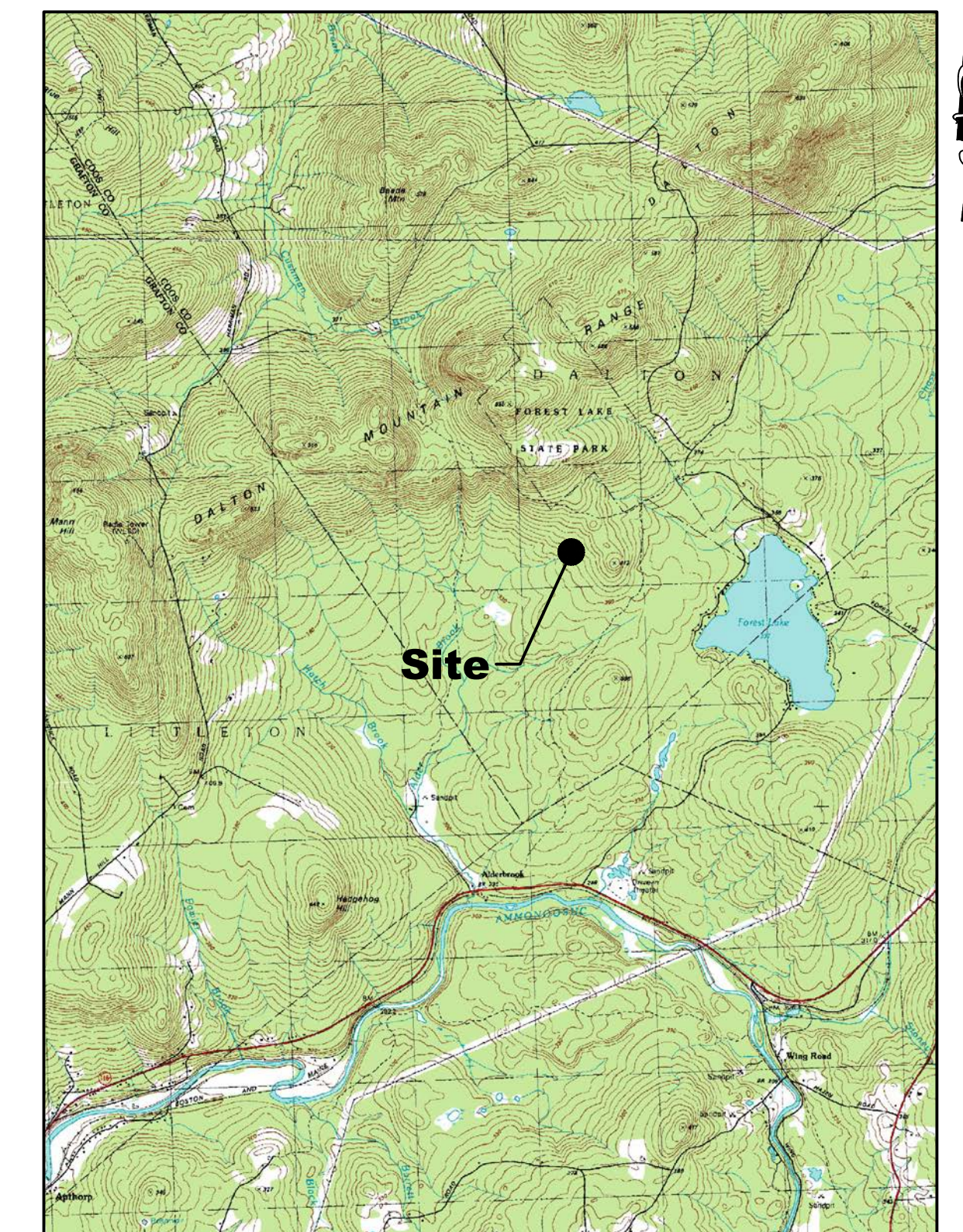
Submitted to NHDES for Review - October 2023

Sheet Index

Sheet	Drawing No.	Title	Sheet	Drawing No.	Title
1	-	Cover	26	DD-5	Douglas Drive Plan and Profile Sheet 4
2	ECP-1	Existing Conditions Plan	27	DD-6	Douglas Drive Plan and Profile Sheet 5
3	OVSP-1	Overall Site Plan	28	DD-7	Douglas Drive Plan and Profile Sheet 6
4	LP-1	Base Grading Plan Index Plan	29	DD-8	Douglas Drive Plan and Profile Sheet 7
5	LP-2	Base Grading Plan Primary Sand 1	30	DD-9	Douglas Drive Plan and Profile Sheet 8
6	LP-3	Base Grading Plan Primary Sand 2	31	DD-10	Douglas Drive Plan and Profile Sheet 9
7	LP-4	Base Grading Plan Primary Sand 3	32	DD-11	Douglas Drive Route 116 Plan Sheet 1
8	G&D-1	Stormwater Ponds Grading and Drainage Index Plan	33	DD-12	Douglas Drive Route 116 Plan Sheet 2
9	G&D-2	Stormwater Ponds Grading and Drainage Plan Sheet 1	34	DD-13	Roadway Sections and Culvert Layout Plan 1
10	G&D-3	Stormwater Ponds Grading and Drainage Plan Sheet 2	35	DD-14	Roadway Sections and Culvert Layout Plan 1
11	G&D-4	Stormwater Ponds Grading and Drainage Plan Sheet 3	36	DD-15	Roadway Sections and Culvert Layout Plan 3
12	G&D-5	Stormwater Ponds Grading and Drainage Plan Sheet 4	37	D-1	Landfill Details
13	INT-1	Interim Grading Plan Stage 1 Cell 1	38	D-2	Leachate Details 1
14	INT-2	Interim Grading Plan Stage 1 Cell 2	39	D-3	Leachate Details 2
15	INT-3	Interim Grading Plan Stage 1 Cell 3	40	D-4	Leachate Details 3
16	INT-4	Interim Grading Plan Stage 2 Cell 1	41	D-5	Leachate Details 4
17	INT-5	Interim Grading Plan Stage 2 Cell 2	42	D-6	Site Details
18	INT-6	Interim Grading Plan Stage 2 Cell 3	43	D-7	Stormwater Details
19	INT-7	Interim Grading Plan Final Grading	44	D-8	Stormwater Details
20	XS-1	Landfill Cross Sections Sheet 1	45	D-9	Landfill Gas Details 1
21	XS-2	Landfill Cross Sections Sheet 2	46	D-10	Landfill Gas Details 2
22	DD-1	Douglas Drive Overall Site Plan	47	D-11	Roadway Details
23	DD-2	Douglas Drive Plan and Profile Sheet 1	48	D-12	Erosion Control Details
24	DD-3	Douglas Drive Plan and Profile Sheet 2	49	D-13	Closure Details
25	DD-4	Douglas Drive Plan and Profile Sheet 3	50	D-14	Wetland Filling Details



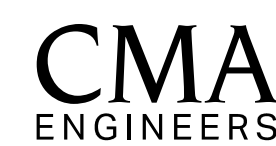
Locus Plan



Project Location

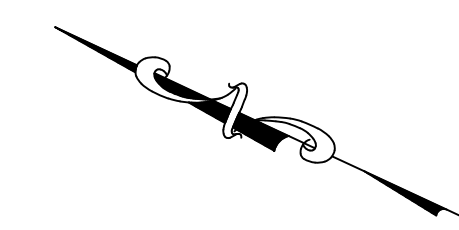
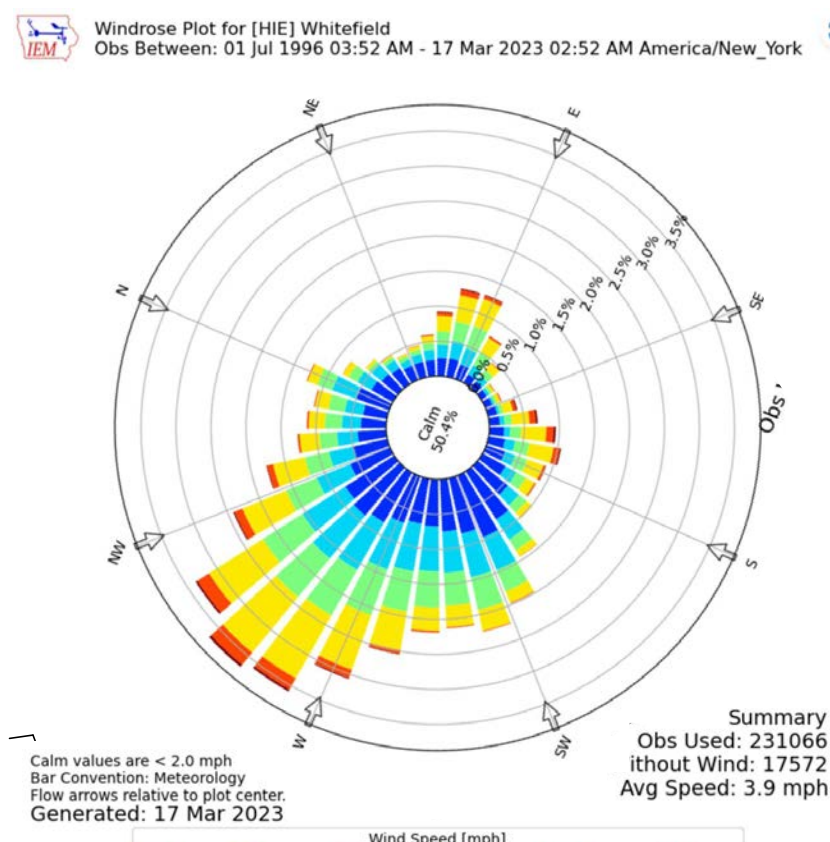
Prepared For:
Granite State Landfill, LLC
 1855 VT Route 100
 Hyde Park, VT 05655

Prepared By:



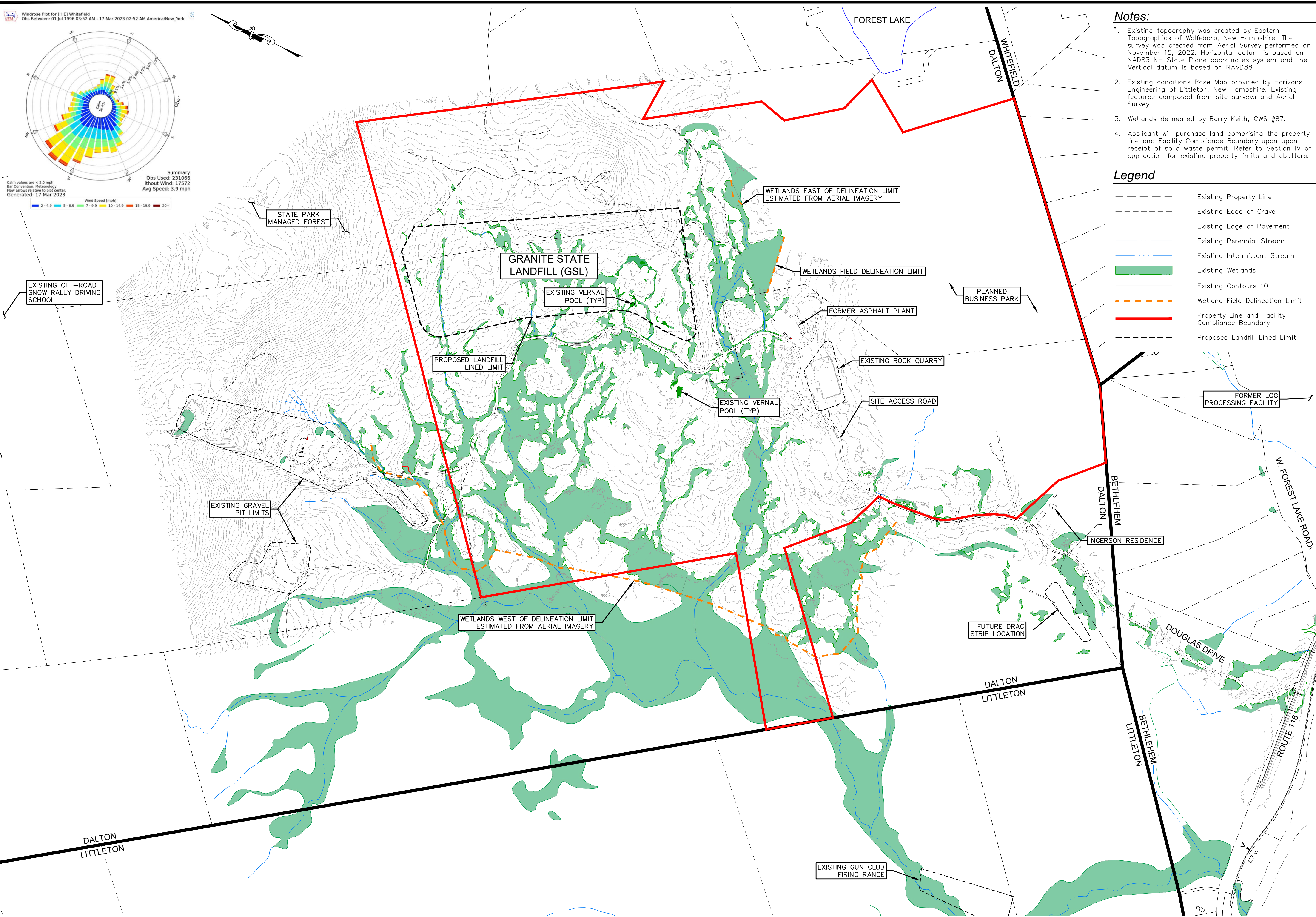
CIVIL/ENVIRONMENTAL/STRUCTURAL

Portsmouth, NH • Manchester, NH • Portland, ME
 603/431-6196 • 603/627-0708 • 207/541-4223
 c m a e n g i n e e r s . c o m



- Notes:**
- Existing topography was created by Eastern Topographics of Wolfeboro, New Hampshire. The survey was created from Aerial Survey performed on November 15, 2022. Horizontal datum is based on NAD83 NH State Plane coordinates system and the Vertical datum is based on NAVD88.
 - Existing conditions Base Map provided by Horizons Engineering of Littleton, New Hampshire. Existing features composed from site surveys and Aerial Survey.
 - Wetlands delineated by Barry Keith, CWS #87.
 - Applicant will purchase land comprising the property line and Facility Compliance Boundary upon receipt of solid waste permit. Refer to Section IV of application for existing property limits and abutters.

- Legend**
- Existing Property Line
 - Existing Edge of Gravel
 - Existing Edge of Pavement
 - Existing Perennial Stream
 - Existing Intermittent Stream
 - Existing Wetlands
 - Existing Contours 10'
 - Wetland Field Delineation Limit
 - Property Line and Facility Compliance Boundary
 - Proposed Landfill Lined Limit



<p>CMA ENGINEERS Civil/Environmental/Structural</p> <p>Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/641-4223</p> <p>c m a e n g i n e e r s . c o m</p>		<p>designed by: ATR/JM/STF/AJS drawn by: ATR/JM/STF checked by: AJS approved by: AJS</p>	<p>date: October 2023 project no: 1101 checked by: AJS</p>	<p>scale: 450' 900' Scale: 1" = 450'</p>
<p>Granite State Landfill, LLC Dalton, New Hampshire</p>		<p>Permitting Plan Set</p>		
<p>Existing Conditions Plan</p>		<p>drawing no. ECP-1</p>		
<p>sheet: 2 of 50</p>		<p>no. revision</p>		

General Construction Sequence Notes:

1. Prepare Stormwater Pollution Prevention Plan (SWPPP) and establish coverage under EPA's Construction General Permit and implement SWPPP training.
2. Complete DigSafe notifications (811 or 888-DIG-SAFE).
3. Establish horizontal and vertical control.
4. Site mobilization.
5. Install perimeter erosion controls including silt fencing, compost sock or ECM Berm. Erosion controls shall be maintained throughout construction.
6. Construct stormwater infiltration basins, stormwater ponds, forebays, and swales. Clearing to be kept to the minimum area practical. Anytime that greater than 5-acres of soil is exposed, an Environmental Monitor (EM) shall be utilized to monitor the site and complete the required reporting in compliance with Section Env-Wq 1505.03(d) of the Aot Rules.
7. Construct improvements at site entrance and Route 116.
8. Construct improvements to Douglas Drive.
9. Construct internal landfill roads, infrastructure area, Stage I, Cell I lined landfill and berm construction.
10. Installation of leachate and landfill gas conveyance and other utilities.
11. Once Engineer has determined the site to be stabilized in compliance with Aot Rules, remove erosion controls and sediment to a location designated by the Owner.
12. Site demobilization and termination of EPA CGP coverage

EXISTING OFF-ROAD SNOW RALLY DRIVING SCHOOL

PROPOSED SITE ENTRANCE GATE

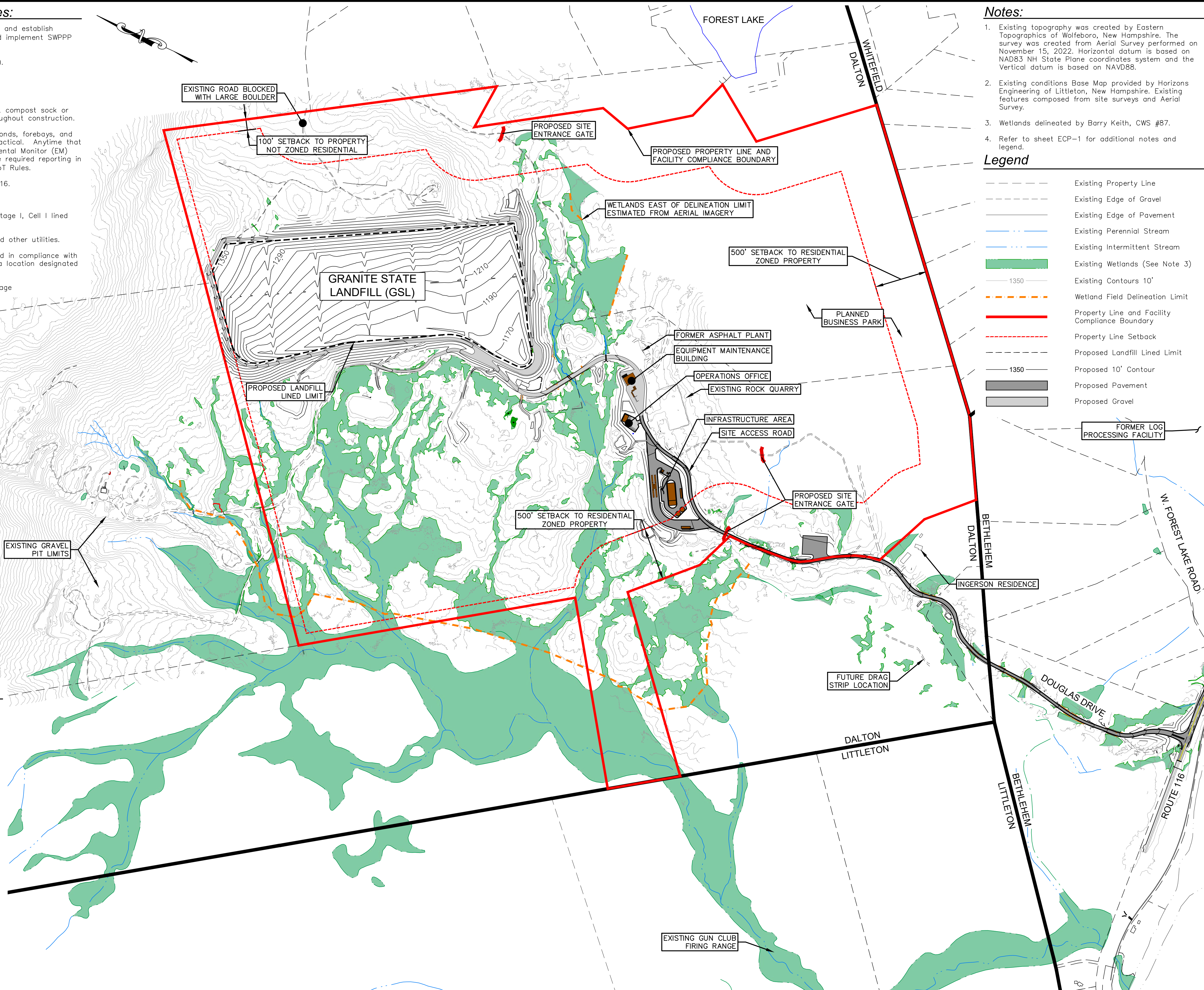
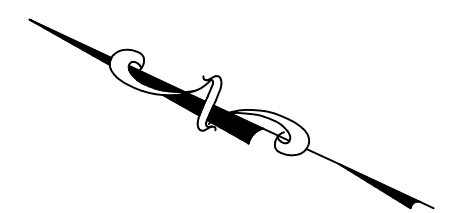
EXISTING GRAVEL PIT LIMITS

Wildlife Protection Notes:

Env-Wq 1504.18 Wildlife Protection Notes.

(a) In addition to the requirements of Env-Wq 1504.06, the plans shall also contain the following wildlife protection notes:

- (1) All observations of threatened or endangered species on the project site shall be reported immediately to the NHF&G nongame and endangered wildlife environmental review program by phone at 603-271-2461 and by email at NHFGreview@wildlife.nh.gov, with the email subject line containing the NHB DataCheck tool results letter assigned number (NHB22-3682), the project name (Granite State Landfill), and the term Wildlife Species Observation;
- (2) Photographs of the observed species and nearby elements of habitat or areas of land disturbance shall be provided to NHF&G in digital format at the above email address for verification, as feasible;
- (3) In the event a threatened or endangered species is observed on the project site during the term of the permit, the species shall not be disturbed, handled, or harmed in any way prior to consultation with NHF&G and implementation of corrective actions recommended by NHF&G, if any, to assure the project does not appreciably jeopardize the continued existence of threatened and endangered species as defined in Fis 1002.04; and
- (4) The NHF&G, including its employees and authorized agents, shall have access to the property during the term of the permit.



Notes:

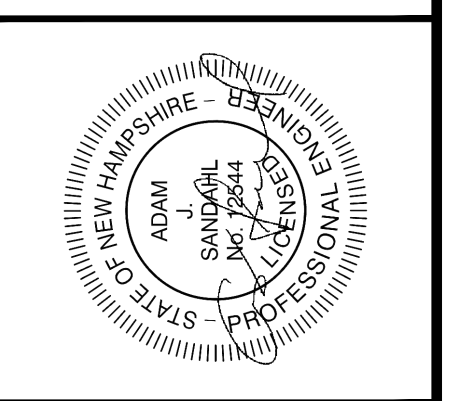
1. Existing topography was created by Eastern Topographics of Wolfeboro, New Hampshire. The survey was created from Aerial Survey performed on November 15, 2022. Horizontal datum is based on NAD83 NH State Plane coordinates system and the vertical datum is based on NAVD88.
2. Existing conditions Base Map provided by Horizons Engineering of Littleton, New Hampshire. Existing features composed from site surveys and Aerial Survey.
3. Wetlands delineated by Barry Keith, CWS #87.
4. Refer to sheet ECP-1 for additional notes and legend.

Legend

- Existing Property Line
- Existing Edge of Gravel
- Existing Edge of Pavement
- Existing Perennial Stream
- Existing Intermittent Stream
- Existing Wetlands (See Note 3)
- Existing Contours 10'
- Wetland Field Delineation Limit
- Property Line and Facility Compliance Boundary
- Property Line Setback
- Proposed Landfill Lined Limit
- Proposed 10' Contour
- Proposed Pavement
- Proposed Gravel

no.	revision	date	by

CMA ENGINEERS
 CIVIL/ENVIRONMENTAL/STRUCTURAL
 Portsmouth, NH 603/431-6196 • 603/627-0708 • 207/641-4223
 Portland, ME 207/641-4223
 c m a e n g i n e e r s . c o m

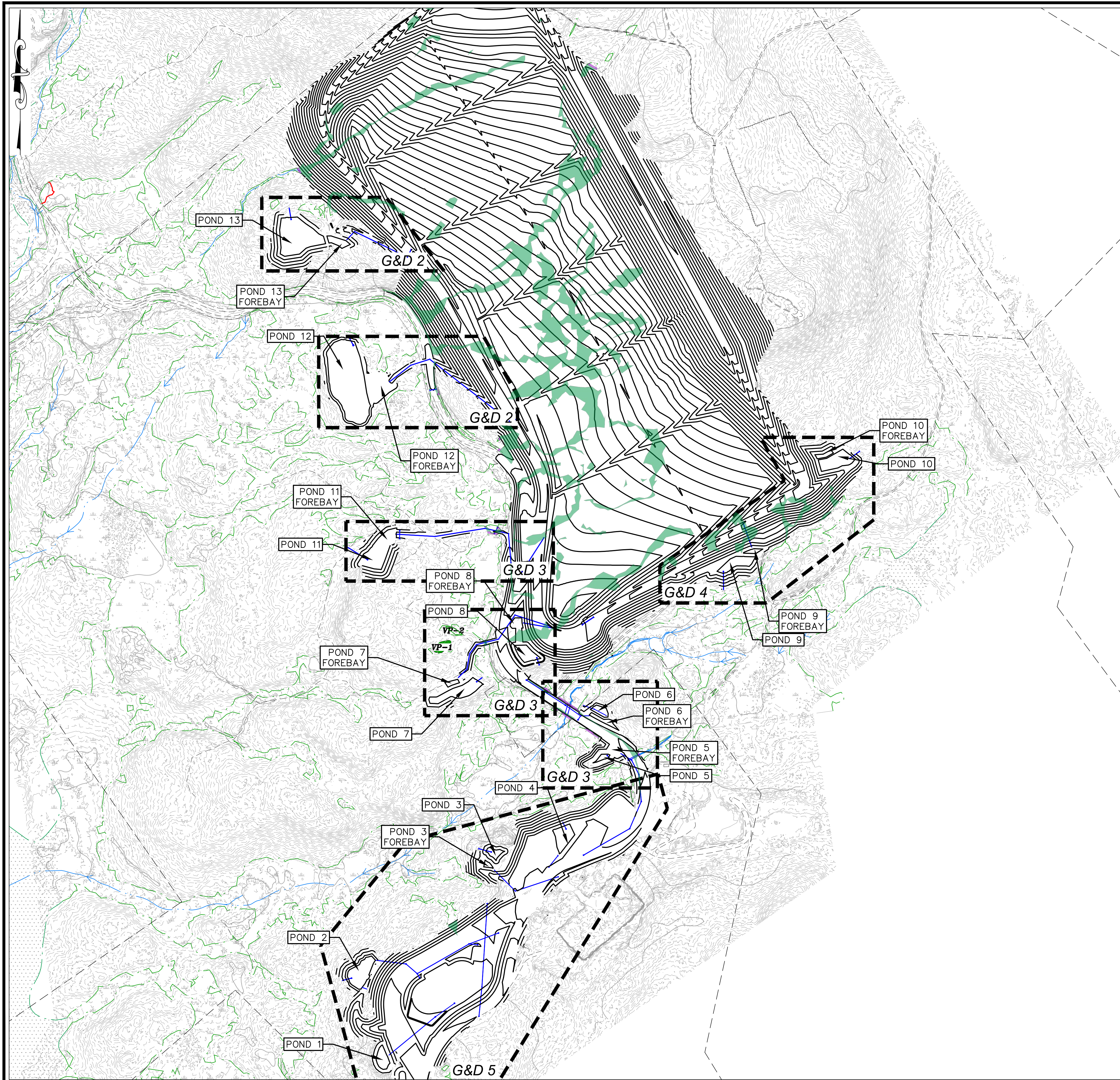


date:	October 2023	designed by:	ATRN/JMSTF/AJS
project no.:	1101	drawn by:	ATRN/JMSTF
checked by:	AJS	approved by:	AJS

scale: 1" = 450'
 0 450' 900'

Granite State Landfill, LLC
 Dalton, New Hampshire
 Permitting Plan Set
 Overall Site Plan

drawing no. **OVSP-1**
 sheet: 3 of 50



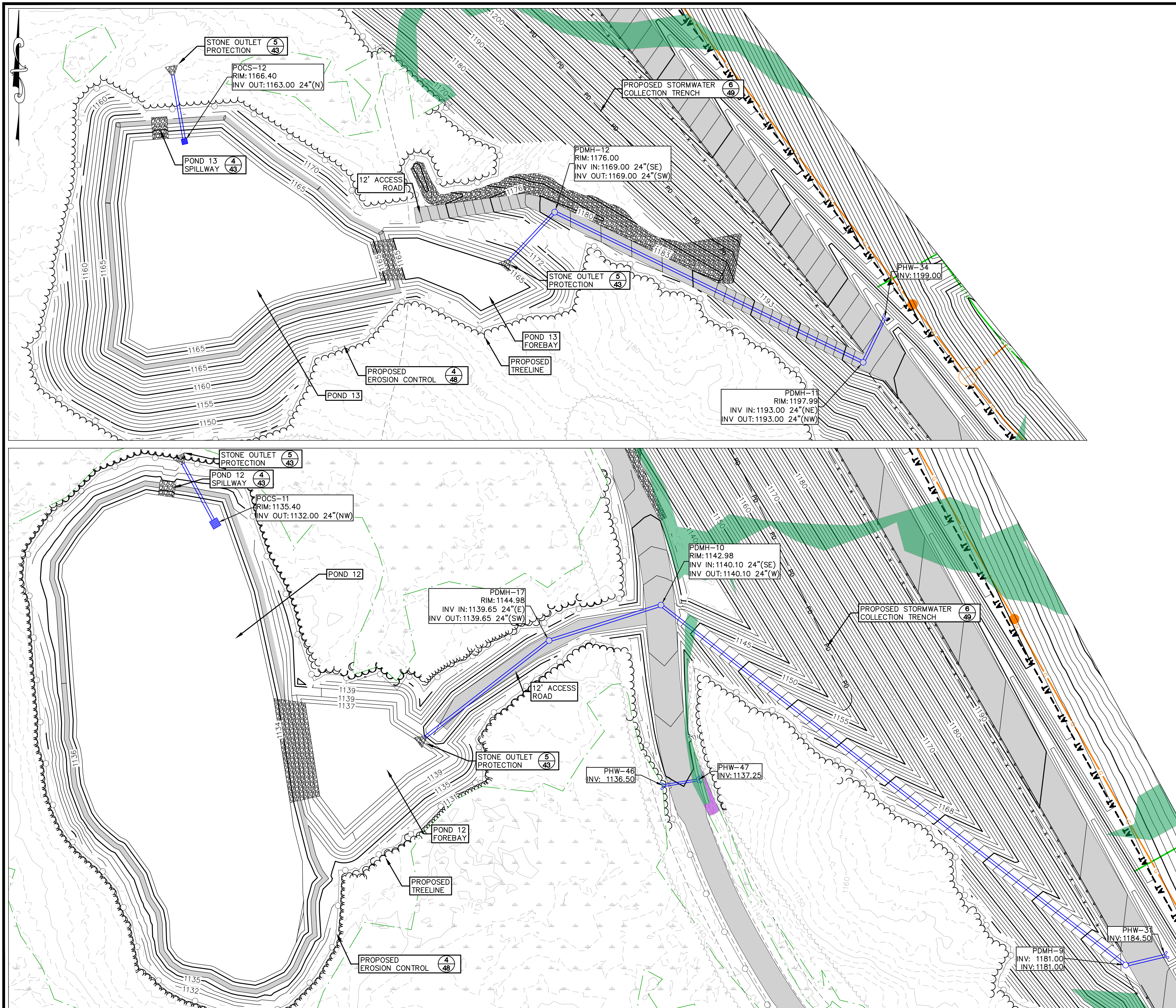
Notes:

- Proposed grades shown within the anchor trench represent top of sand base grades. Proposed grades shown outside the anchor trench represent final grades.
- Plant tree species native to the site wetlands on the pond bottoms on a maximum 50-foot center-to-center spacing to shade standing water in the ponds. Tree species shall include northern conifer (spruce, fir) and swamp hardwood (white birch, quaking aspen).
- Refer to Sheets 9, 10, 11, and 12 for additional detail.

Legend

	Existing 2' Contour
	Existing 10' Contour
	Existing Tree Line
	Existing Edge of Gravel
	Existing Perennial Stream
	Existing Intermittent Stream
	Wetland Delineation Limit
	Proposed 1' Contour
	Proposed 5' Contour
	Proposed Anchor Trench
	Proposed Erosion Control (Compost Sock, Silt Fence, ECM Berm)
	Proposed Guardrail
	Proposed Wall
	Proposed Treeline
	Proposed Litter Fence
	Proposed Gas Line
	Proposed Forcemain
	Proposed Overhead Electric
	Proposed Sewer
	Proposed Pavement Road
	Proposed Gravel Road
	Permanent Wetland Impacts
	Temporary Wetland Impacts

<p>CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/641-4223 c m a e n g i n e e r s . c o m</p>	
<p>date: October 2023</p>	<p>designed by: ATR/JM/STF/AJS</p>
<p>project no: 1101</p>	<p>drawn by: ATR/JM/STF</p>
<p>checked by: AJS</p>	<p>approved by: AJS</p>
<p>scale: 0 250' 500'</p> <p>Scale: 1" = 250'</p>	
<p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set Stormwater Ponds Grading and Drainage Plan Index</p>	
<p>drawing no. G&D-1</p>	
<p>sheet: 8 of 50</p>	



Note:
 1. Refer to Sheet 8 for notes and legend.

Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set Stormwater Ponds Drating and Drainage Plan 1		designed by: ATR/JUM/STF/AJS drawn by: ATR/JUM/STF checked by: AJS approved by: AJS	date: October 2023 project no: 1101 checked by: AJS	scale: 0 40' 80' Scale: 1" = 40'	drawing no. G&D-2 sheet: 9 of 50
CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 cmaengineers.com		no. _____ revision _____ date _____ by _____			

