



PUBLIC NOTICE

Comment Period Begins: April 9, 2024

Comment Period Ends: May 8, 2024

File Number: NAE-2021-02240

Phone: (978) 318-8295

Email: CENAE-R-PN-NH@usace.army.mil

The District Engineer, U.S. Army Corps of Engineers, New England District (USACE), has received a permit application, file number NAE-2021-02240, to conduct work in waters of the United States from Granite State Landfill, LLC, 1855 Vermont Route 100, Hyde Park, Vermont, 05655. This work is proposed in unnamed wetlands and unnamed tributaries to Alder Brook and Ammonoosuc River at 172 Douglas Drive, Bethlehem, New Hampshire. The site coordinates are: Latitude 44.331N Longitude – 71.695.

The project proposes the construction of a double-lined commercial landfill in Dalton, New Hampshire. The landfill footprint encompasses 70 acres and will provide 18 years of disposal capacity, accepting 600,000 cubic yards of waste per year. Work includes constructing the landfill cells, clearing and grubbing, soil excavation and fill placement, new roadways, improvements to existing roadways including road improvements to Douglas Drive and Route 116, landfill infrastructure to include landfill gas management area, a wastewater management area, stormwater management features, scales, buildings, and other ancillary features.

The USACE has authority under Section 404 of the Clean Water Act (CWA), to regulate the discharge of fill into waters of the United States **which does not include trash or garbage (33 CFR 323.2 (e)(3))**. If the proposed infrastructure used to construct the landfill has the effect of filling jurisdictional waters, the infrastructure would be considered "fill material" for the purposes of Section 404. However, any subsequent disposal of solid waste into the landfill and/or discharges of leachate from the landfill **are not within the USACE's jurisdiction to regulate and are therefore not part of our permit review**. Solid waste and discharges of leachate are regulated pursuant to the Resource Conservation and Recovery Act (RCRA) and Section 402 of the CWA known as the National Pollutant Discharge Elimination System (NPDES). The Environmental Protection Agency (EPA) is the federal agency responsible for the administration of RCRA and the Section 402 NPDES program. The EPA sets criteria for the operation of landfills and discharges which the individual states implement, however, the states may also set more stringent requirements. Discharge of leachate from the landfill into waters the United States would be regulated under Section 402 of the CWA and not USACE's Section 404 program.

Permanent impacts to wetlands and waters of the United States (WOTUS) include approximately 10.19 acres to wetlands and 1,518 linear feet of stream impact for the construction of the landfill and associated infrastructure improvements. Temporary impacts for the project include 0.49 acres to wetlands and 1,628 linear feet of stream impact. Additionally, 0.85 acres of wetland impact and 110 linear feet of stream impact

are included for impacts that occurred along the existing roadway prior to Granite State Landfill's involvement with the site.

The work is shown on the enclosed plans titled "Granite State Landfill, LLC- Granite State Landfill, Dalton, New Hampshire-Permitting Plan Set," on 50 sheets, and dated "October 2023."

The Granite State Landfill has been designed to avoid and minimized environmental impacts while providing future disposal capacity for municipalities and customers currently directing waste to the North Country Environmental Services, Inc while also providing a disposal resource for other waste generators in New Hampshire and New England. To compensate for the project's projected impacts to waterways and wetlands, the applicant is currently proposing a contribution to the State of New Hampshire Aquatic Resource Mitigation Fund (NH In Lieu Fee Program), and permittee responsible restoration and/or land preservation.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.
- Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

NATIONAL HISTORIC PRESERVATION ACT

Based on our initial review of the proposed project, historic properties were identified within the area of potential effects. However, the applicant currently proposes to avoid all effects to known historic properties. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as

amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The USACE is reviewing the application for the potential impact on federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. Our review will be concluded prior to the final decision.

OTHER GOVERNMENT AUTHORIZATIONS

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, license or assent from State.
- (X) Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

COMMENTS

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. People submitting comments are advised that all comments received will be available for public review in their entirety and will be considered a matter of public record.

Comments should be submitted in writing by the above date. If you have any questions, please contact USACE, Regulatory Division, at CENAE-R-PN-NH@usace.army.mil, (978) 318-8295 (800) 343-4789 or (800) 362-4367.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The USACE holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

CENAE-R
File No. NAE-2021-02240

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

Frank J Del
Giudice

Digitally signed by
Frank J Del Giudice
Date: 2024.04.04
13:38:19 -04'00'

Frank J. DelGiudice
Chief, NH & VT Section
Regulatory Division

Please contact Ms. Tina Chaisson at bettina.m.chaisson@usace.army.mil or (978) 318-8058 if you would like to be removed from our public notice mailing list.

Granite State Landfill, LLC

Granite State Landfill

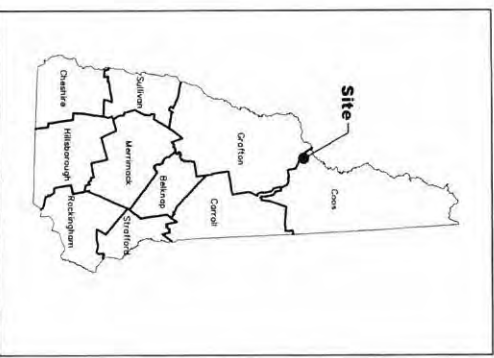
Dalton, New Hampshire

Permitting Plan Set

Submitted to NHDES for Review - October 2023

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Locus Plan

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

Prepared By:
CMA
ENGINEERS

CMA Environmental Services
 6000 Highway 100, Suite 200
 Colchester, VT 05445
 Phone: 802.279.7979
 Fax: 802.279.7978
 Email: info@cma-engineers.com



Project Location

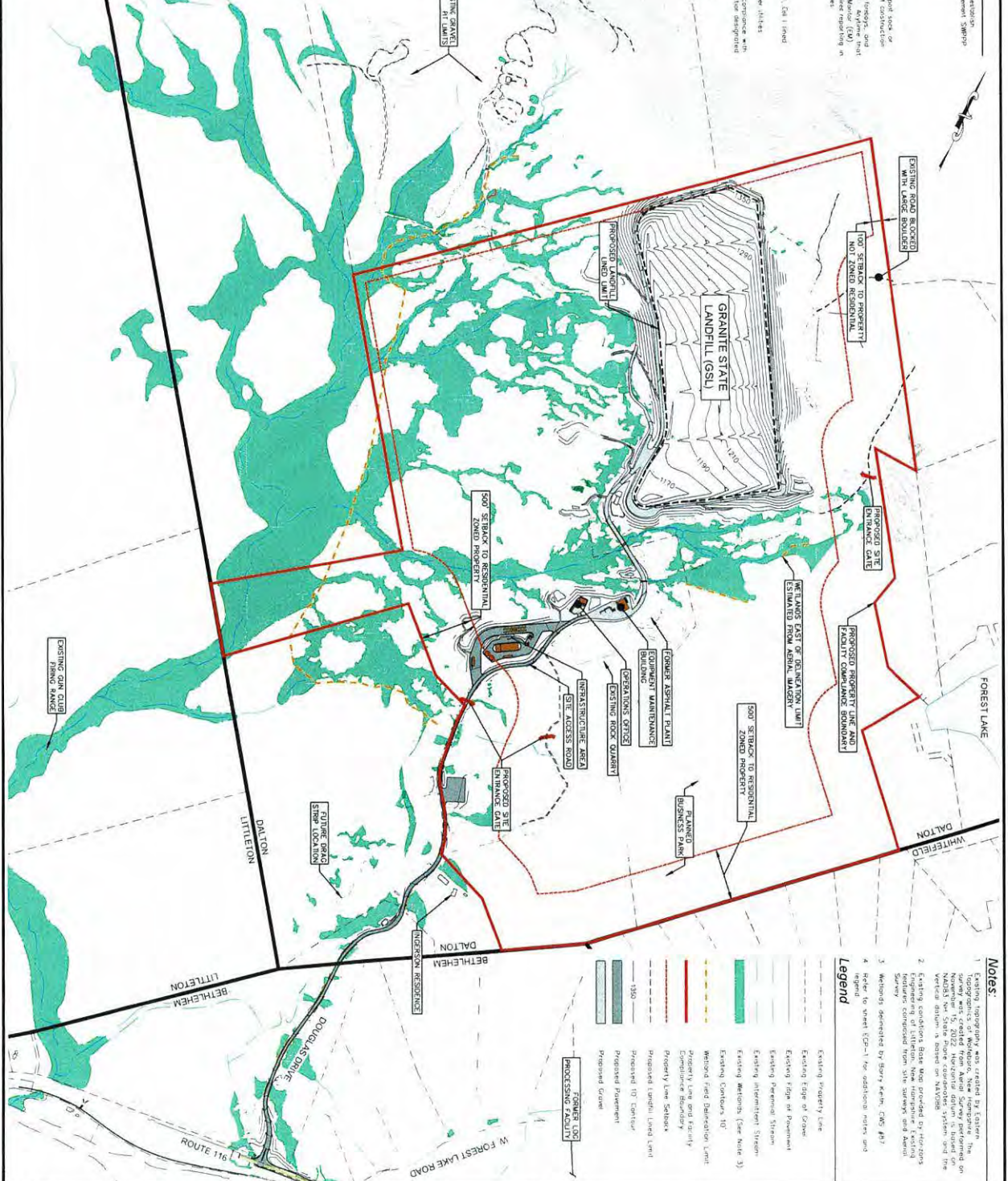


General Construction Sequence Notes:

1. Prepare Stormwater Pollution Prevention Plan (SWPPP) and erosion control plan in accordance with the New Hampshire Construction General Permit and implement SWPPP accordingly.
2. Complete On-Site notifications (811) or 888-606-SAFE.
3. Exterior hardscapes and vehicle control.
4. Site mobilization.
5. Install perimeter erosion control, including all trench control socks or ECM Bents. Erosion controls shall be maintained throughout construction.
6. Conduct Stormwater collection traps, stormwater ponds, troughs, and swales. Cloning to be used to the maximum area practice. Apply final grade that is 2'-6" above the maximum area practice. Apply final grade that is 2'-6" above the maximum area practice. Apply final grade that is 2'-6" above the maximum area practice. Apply final grade that is 2'-6" above the maximum area practice.
7. Conduct improvements to site entrance and Route 116.
8. Conduct improvements to Douglas Drive.
9. Conduct internal utility roads, infrastructure area, Slope 1, Cell 1 final layout and begin construction.
10. Installation of inlets and traps for concrete and other sites.
11. Once Engineer has determined the site to be stabilized in accordance with the New Hampshire erosion control and sediment to a standard designated in the permit.
12. Site demobilization and removal of EPA CDP coverage.

Wildlife Protection Notes:

- Order No. 1504-18 Wildlife Protection Notes
 Order No. 1504-18 Wildlife Protection Notes
 Order No. 1504-18 Wildlife Protection Notes
 Order No. 1504-18 Wildlife Protection Notes
- (1) All observations of threatened or endangered species by the New Hampshire Department of Environmental Services (DES) during the course of the project shall be reported to the New Hampshire Department of Environmental Services (DES) immediately. The New Hampshire Department of Environmental Services (DES) shall be notified of any observations of threatened or endangered species by the project engineer or other personnel on-site. The project engineer shall provide the project engineer with a copy of the project engineer's report to the New Hampshire Department of Environmental Services (DES) immediately. The project engineer shall provide the project engineer with a copy of the project engineer's report to the New Hampshire Department of Environmental Services (DES) immediately.
 - (2) Photographs of the observed species and nearby elements of habitat or areas of good olivaceous shall be taken and submitted to the New Hampshire Department of Environmental Services (DES) immediately. The project engineer shall provide the project engineer with a copy of the project engineer's report to the New Hampshire Department of Environmental Services (DES) immediately.
 - (3) In the event a threatened or endangered species is observed on the project site during the term of the permit, the project engineer shall immediately suspend all activities in the area of the observation until the project engineer has received approval from the New Hampshire Department of Environmental Services (DES) to resume activities. The project engineer shall provide the project engineer with a copy of the project engineer's report to the New Hampshire Department of Environmental Services (DES) immediately.
 - (4) The NHDDES, including its employees and authorized personnel, shall have access to the project site during the term of the permit.



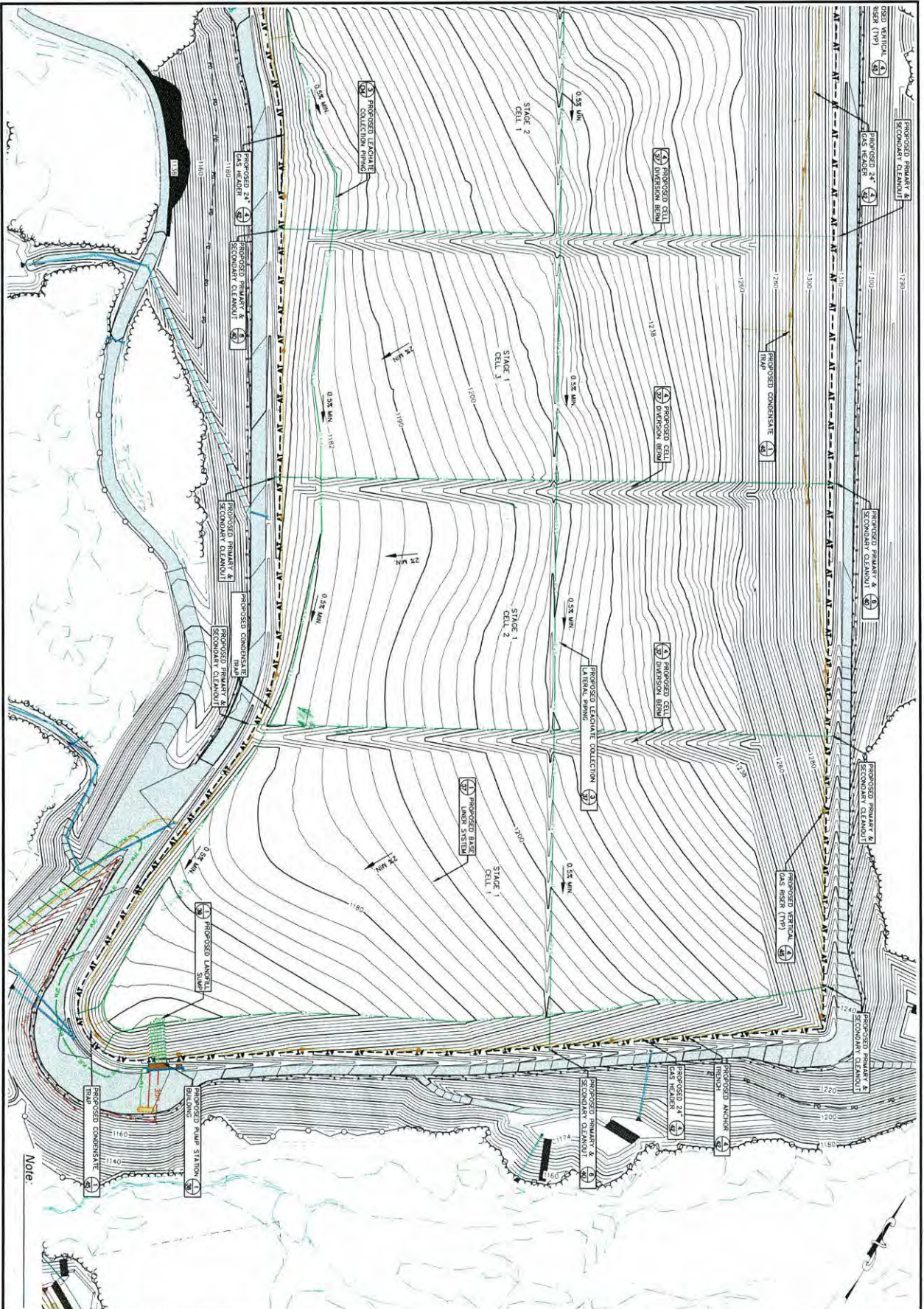
Notes:

1. Existing topography was obtained by either a survey or aerial photography. The survey was conducted by the New Hampshire Department of Environmental Services (DES) and the vertical datum is based on NAVD83.
2. Engineering of site plan was prepared by Horowitz Engineering, Inc. (HEI) and the site plan was prepared by Horowitz Engineering, Inc. (HEI).
3. Wetlands delineated by Henry Kern, CWS #83.
4. Refer to sheet ECP-1 for additional notes and legend.

Legend

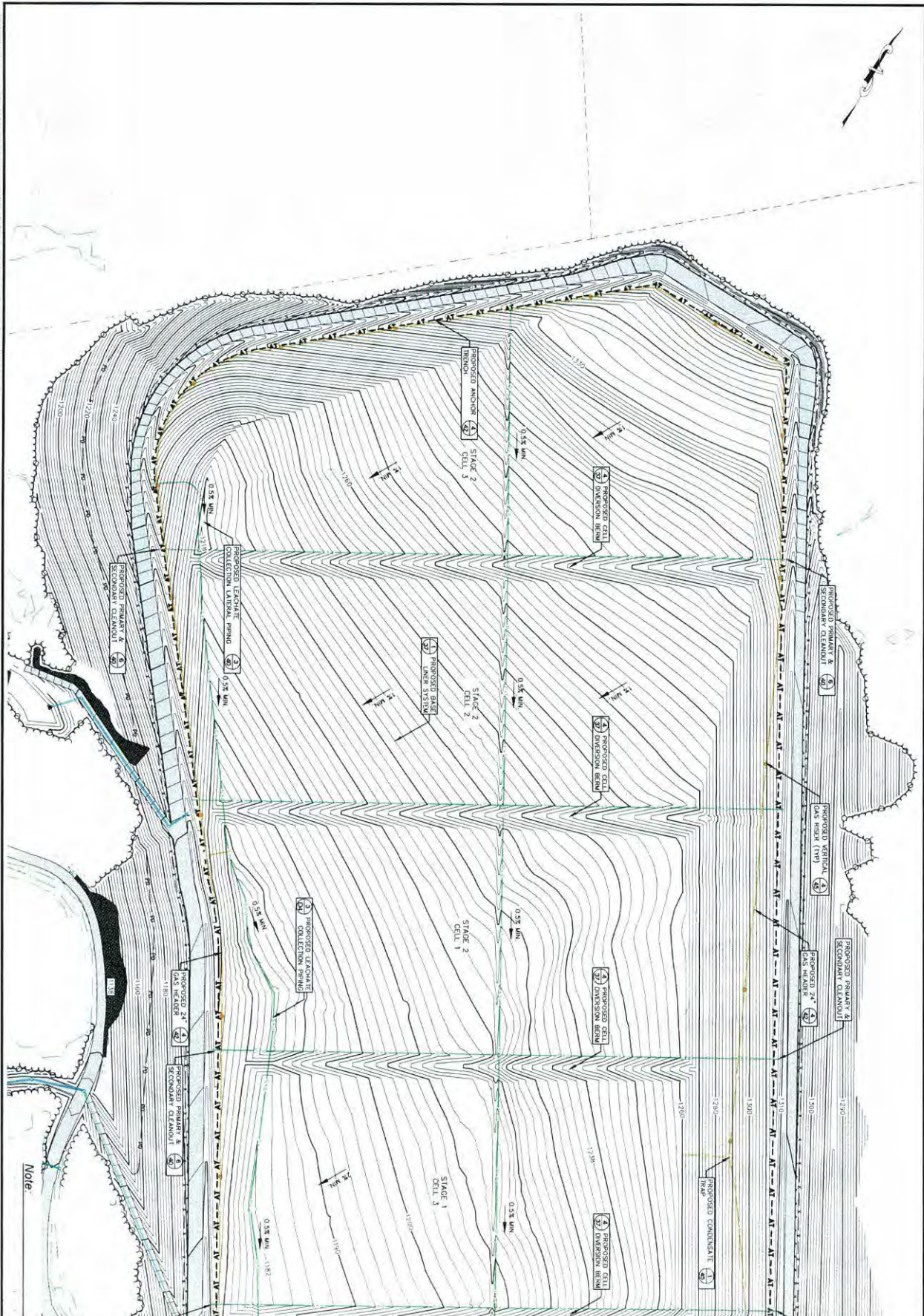
- Existing Property Line
- Existing Edge of Gravel
- Existing Right of Way
- Existing Parcel Boundary
- Existing Intermittent Stream
- Existing Wetlands (See Note 3)
- Existing Contours 10'
- Method Field Delimitation Limit
- Priority Law and Easement
- Compliance Boundary
- Priority Law Setback
- Proposed Landfill Land Limit
- Proposed 10' Contour
- Proposed Pavement
- Proposed Gravel
- Proposed 100' Contour
- Proposed Facility
- Proposed Gravel

| | | | |
|--|---------------------------|-------------------------------------|--|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> | <p>DATE: October 2023</p> | <p>DESIGNED BY: ATR/NJM/STP/AJS</p> | <p>CMA ENGINEERS ONE ENVIRONMENTAL/STRUCTURAL</p> <p>ROSELAND, NH • MANCHESTER, NH • DORCHESTER, MA 603-431-4196 • 603-427-6708 • 207-841-4229</p> <p>C M A E N G I N E E R S . C O M</p> |
| | <p>PROJECT NO: 1101</p> | <p>DRAWN BY: ATR/NJM/STP</p> | |
| <p>Overall Site Plan</p> | <p>SCALE: 1" = 50'</p> | <p>APPROVED BY: AJS</p> | <p>DATE: 10/20/23</p> |



Note:

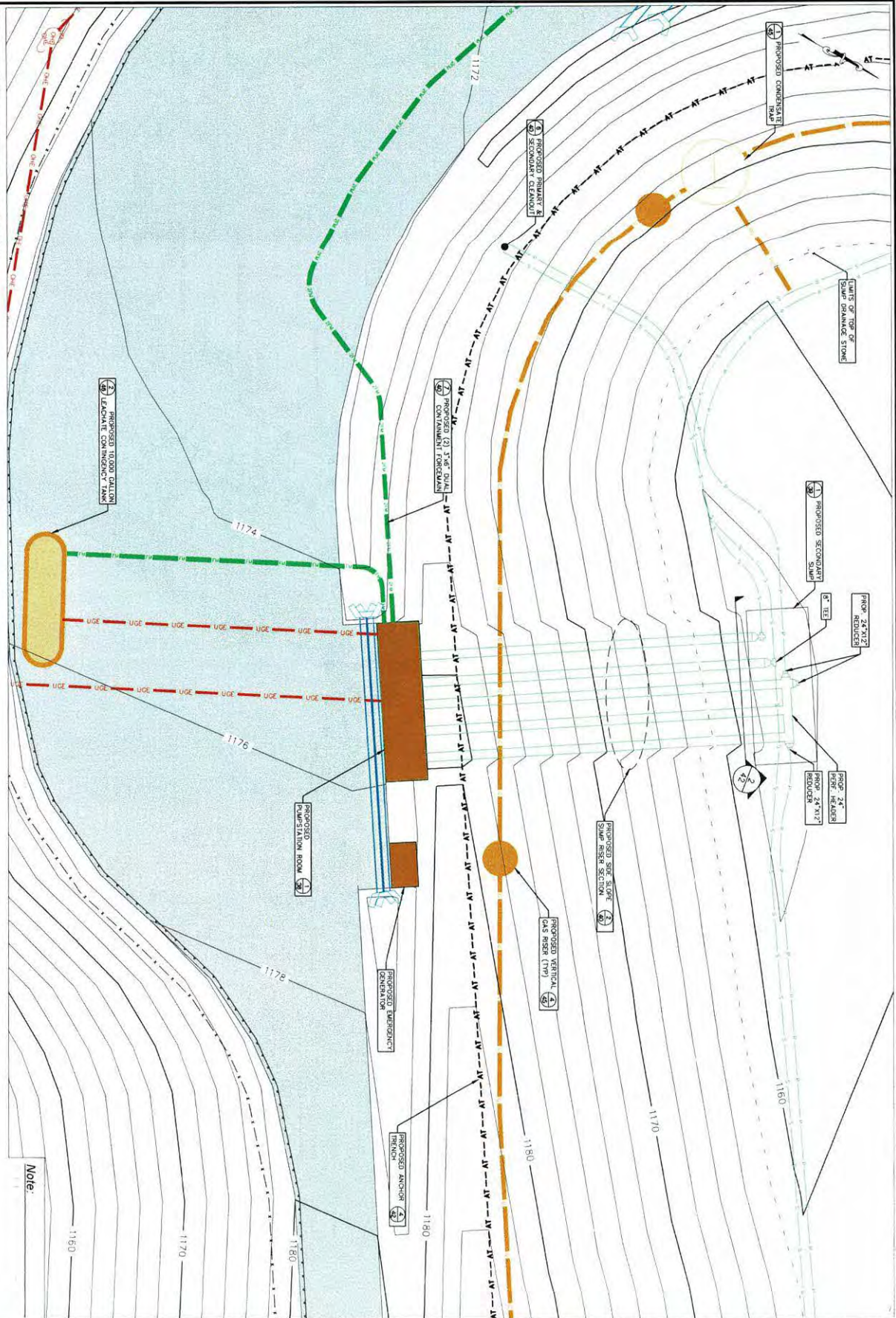
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| Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set Base Grading Plan Primary Sand 1 | date: October 2023 project no: 1101 checked by: AJS | designed by: ATR/NM/ST/AJS drawn by: ATR/NM/STF approved by: AJS | | CMA ENGINEERS 1000 North Main Street, Suite 100 Portsmouth, NH 03801 • Manchester, NH 03103 • Portland, ME 04101 Phone: 603.421-4196 • Fax: 603.623-0724 • 207.941-1223 CMAENGINEERS.COM | 15 16 17 18 19 20 21 22 23 24 25 |
| | LP-2 11/15/23 | Scale: 1" = 50' | | | |



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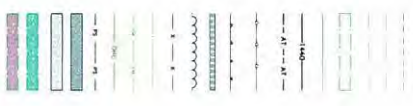
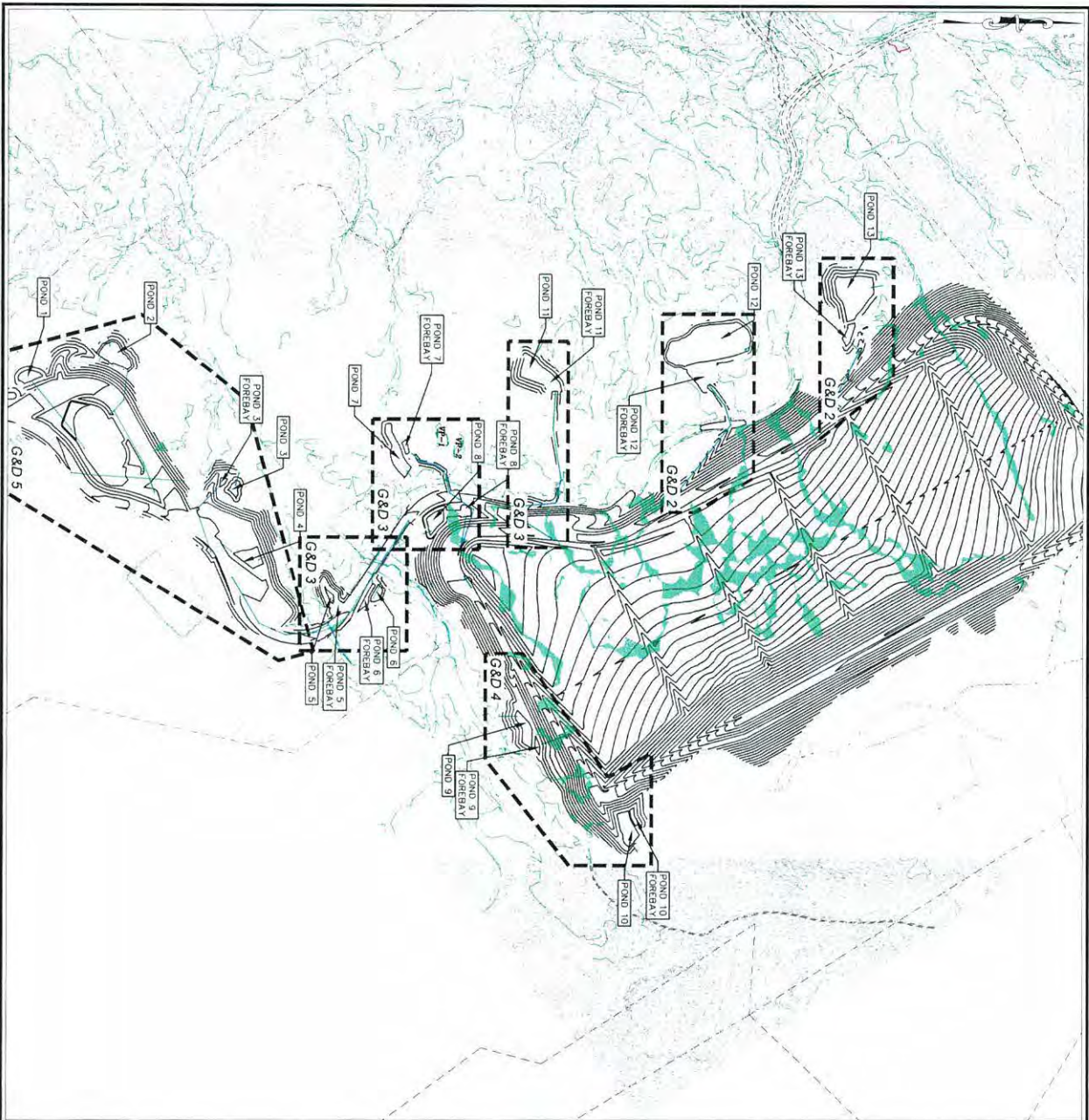
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| Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set Base Grading Plan Primary Sand 2 | DATE October 2023 | designed by ATRN/JMSTF/AJS | | CMA ENGINEERS ENVIRONMENTAL/STRUCTURAL 1000 North Main Street Concord, NH 03301 603-431-6104 • 603-431-6179 • 603-431-6273 C.M.A.E.N.G.I.N.E.E.R.S., L.L.C. |
| | PROJECT NO. 1101 | DRAWN BY ATRN/JMSTF | | |
| | CHECKED BY AJS | APPROVED BY AJS | | |

Primary & Secondary Pump Station



Note:

| | | | | |
|--|---------------------------|----------------------------------|---------------------|---|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> | <p>date: October 2023</p> | <p>designed by: ATRN/MST/AJS</p> | | <p>CMA ENGINEERS CIVIL/ENVIRONMENTAL/GEOTECHNICAL</p> <p>PROFESSIONAL: NJ • MAINE: NH • RHODE ISLAND: RI 603-514-1796 • 603-627-0705 • 2017-411-1223</p> <p>cmaengineers.com</p> |
| | <p>project no: 1101</p> | <p>drawn by: ATRN/MST/AJS</p> | | |
| <p>checked by: AJS</p> | <p>approved by: AJS</p> | <p>scale: 1" = 10'</p> | <p>sheet no: 50</p> | <p>revision: _____</p> |



Legend

Notes:

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

Stormwater Ponds
Grading and Drainage Plan Index

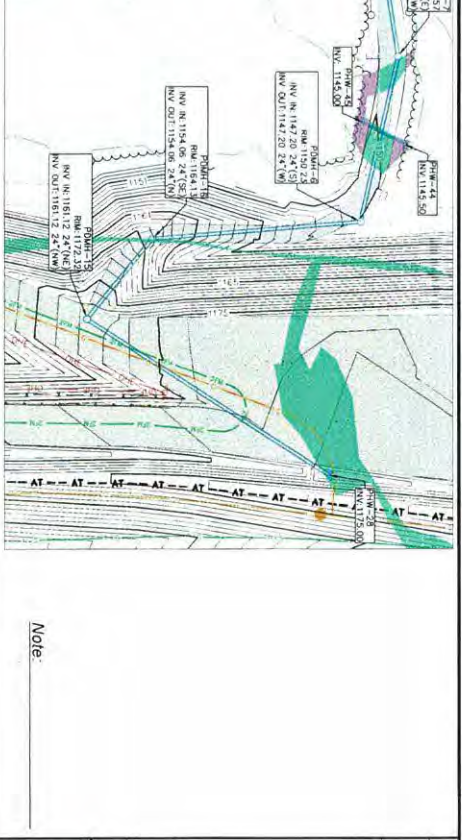
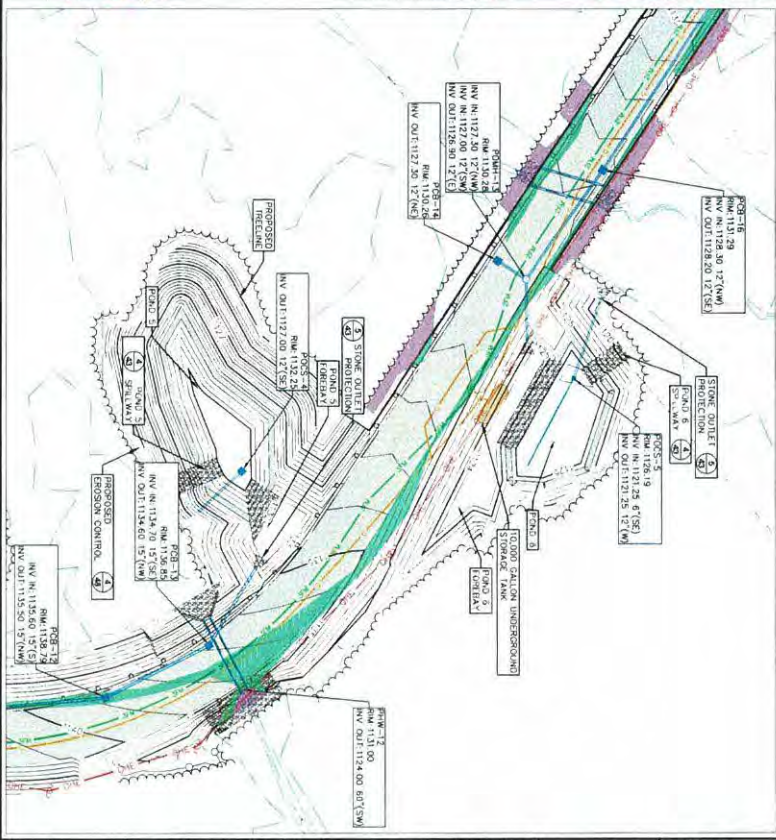
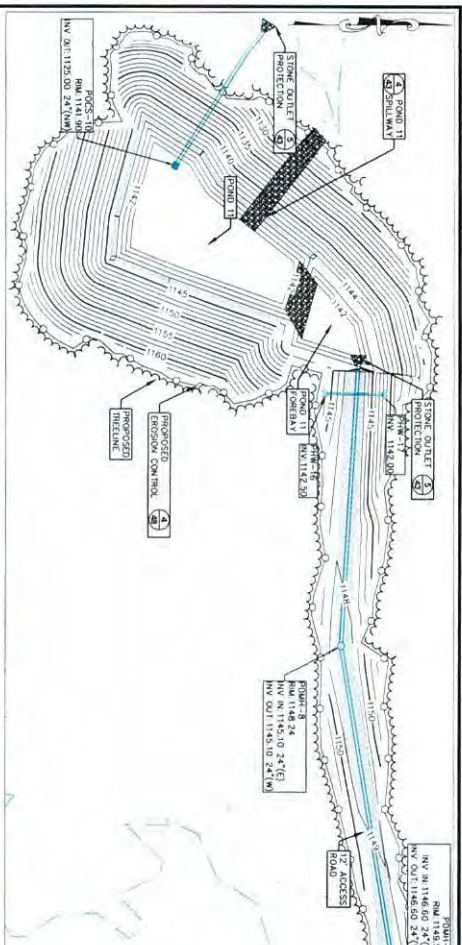
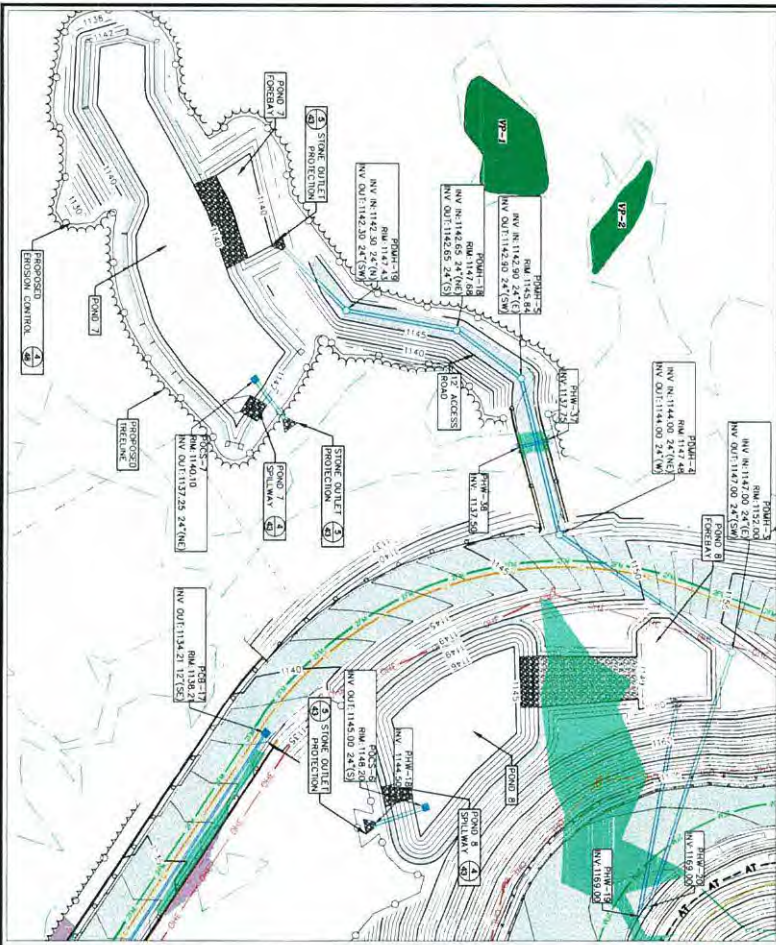
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| CHECKED BY | REVIEWED BY |
| AJS | AJS |
| SCALE | |
| 1" = 20' | |



CMA
ENGINEERS

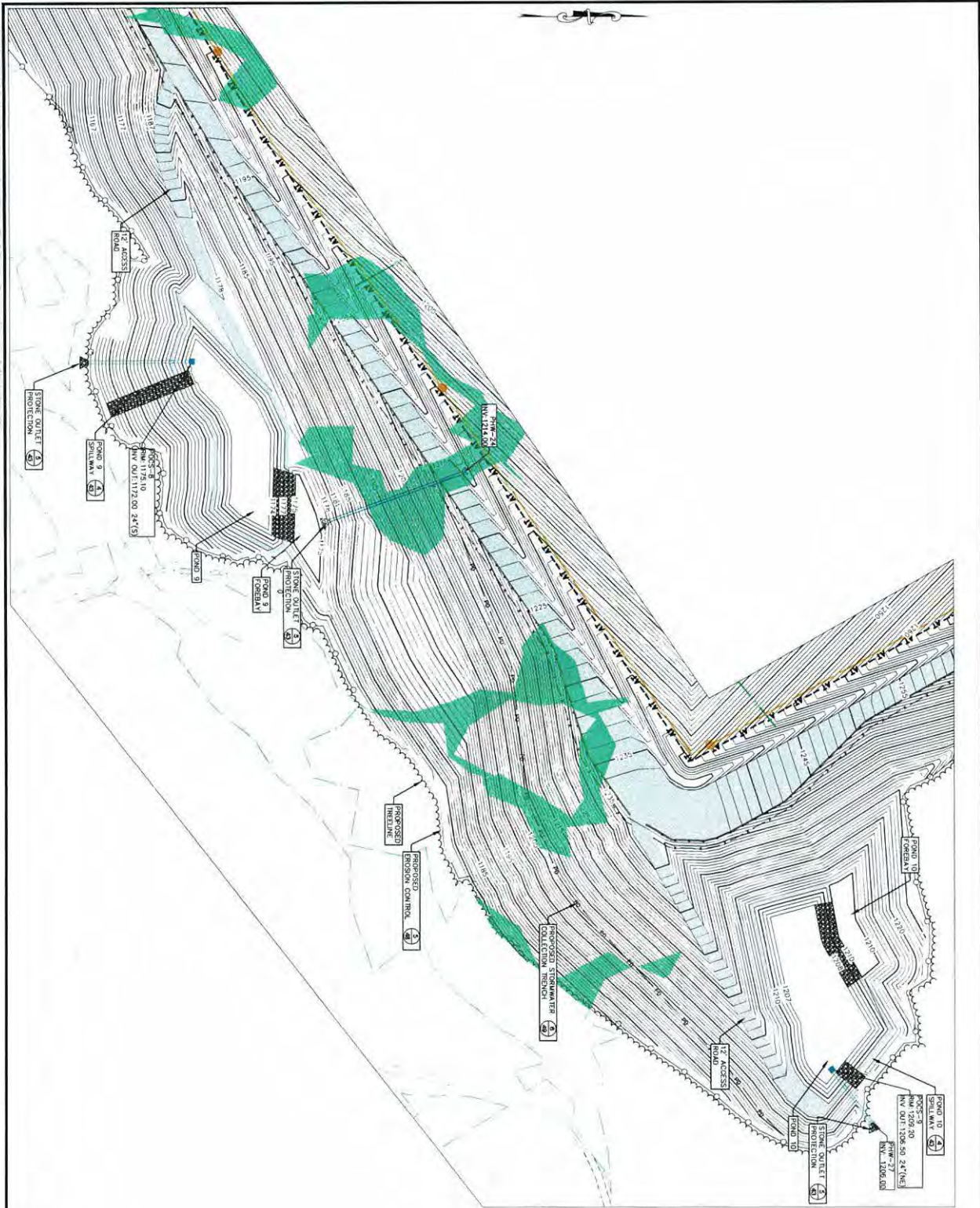
1000 North Main Street, Portland, ME 04108
207.753.1200 • www.cmaengineers.com

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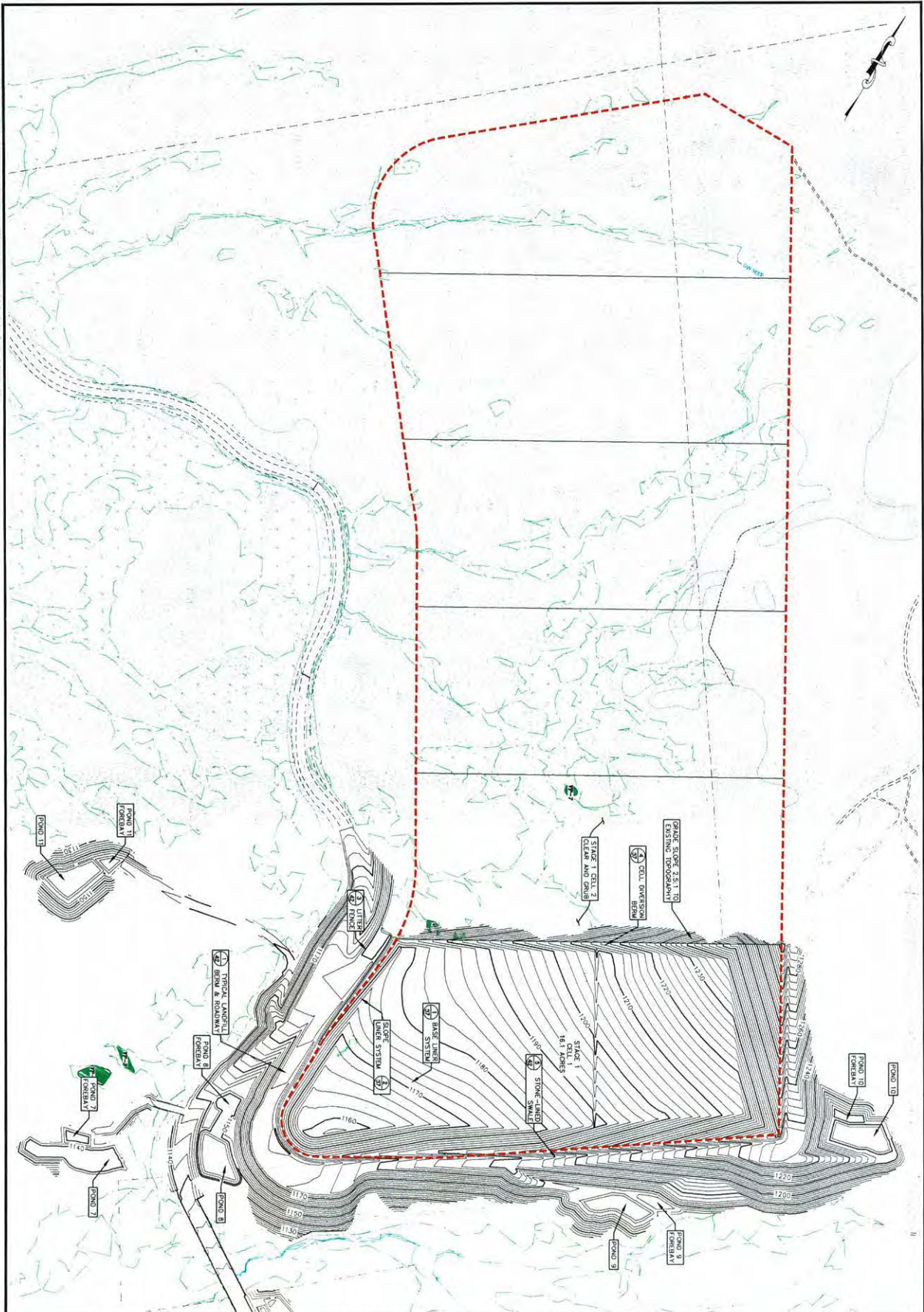
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| | Scale: 1" = 40' | | | CMA ENGINEERS, L.L.C. |

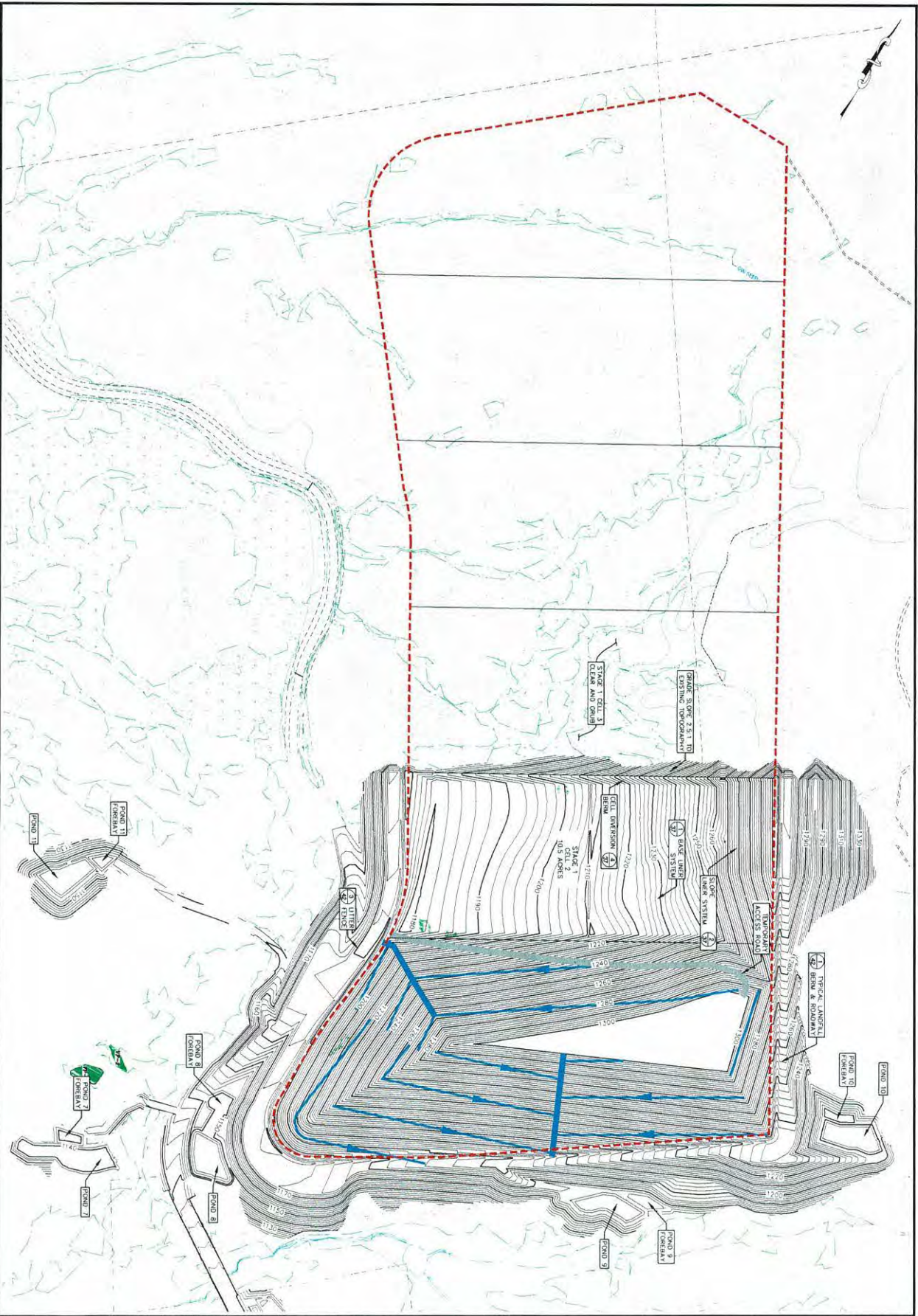


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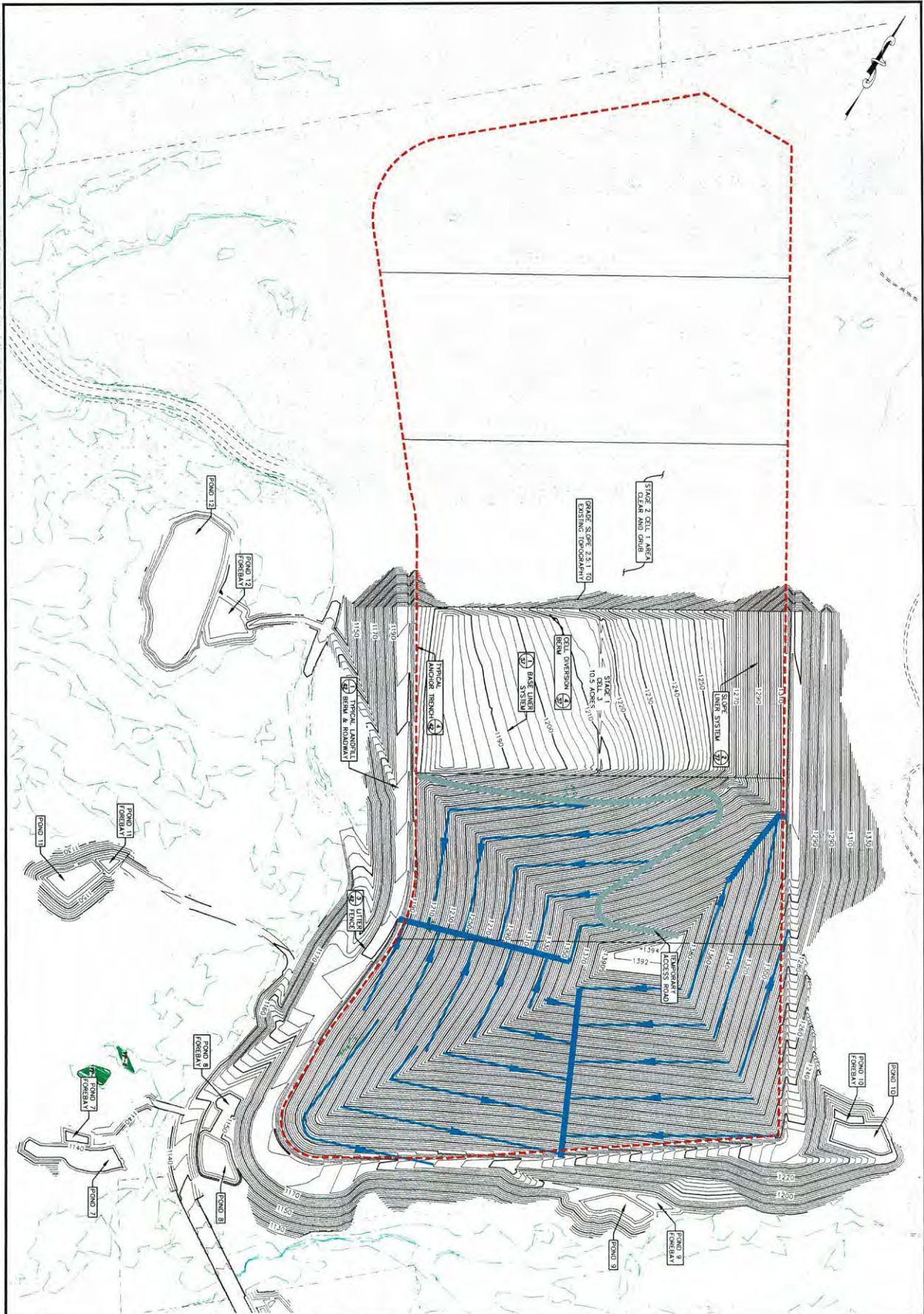
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| Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | DATE: October 2023 DRAWN BY: ATR/AMSTF/AJS CHECKED BY: AJS | DESIGNED BY: ATR/AMSTF/AJS DRAWN BY: ATR/AMSTF/AJS APPROVED BY: AJS | | CMA ENGINEERS CIVIL/ENVIRONMENTAL/GEOTECHNICAL BARRINGTON, NH • MANFORD, NH • BARRISVILLE, NH 603-411-6196 • 603-827-0708 • 2017831-1222 C M A E N G I N E E R S . C O . I T T | |
| | Stormwater Ponds Grading and Drainage Plan 3 | SCALE: 1" = 40' | | | |



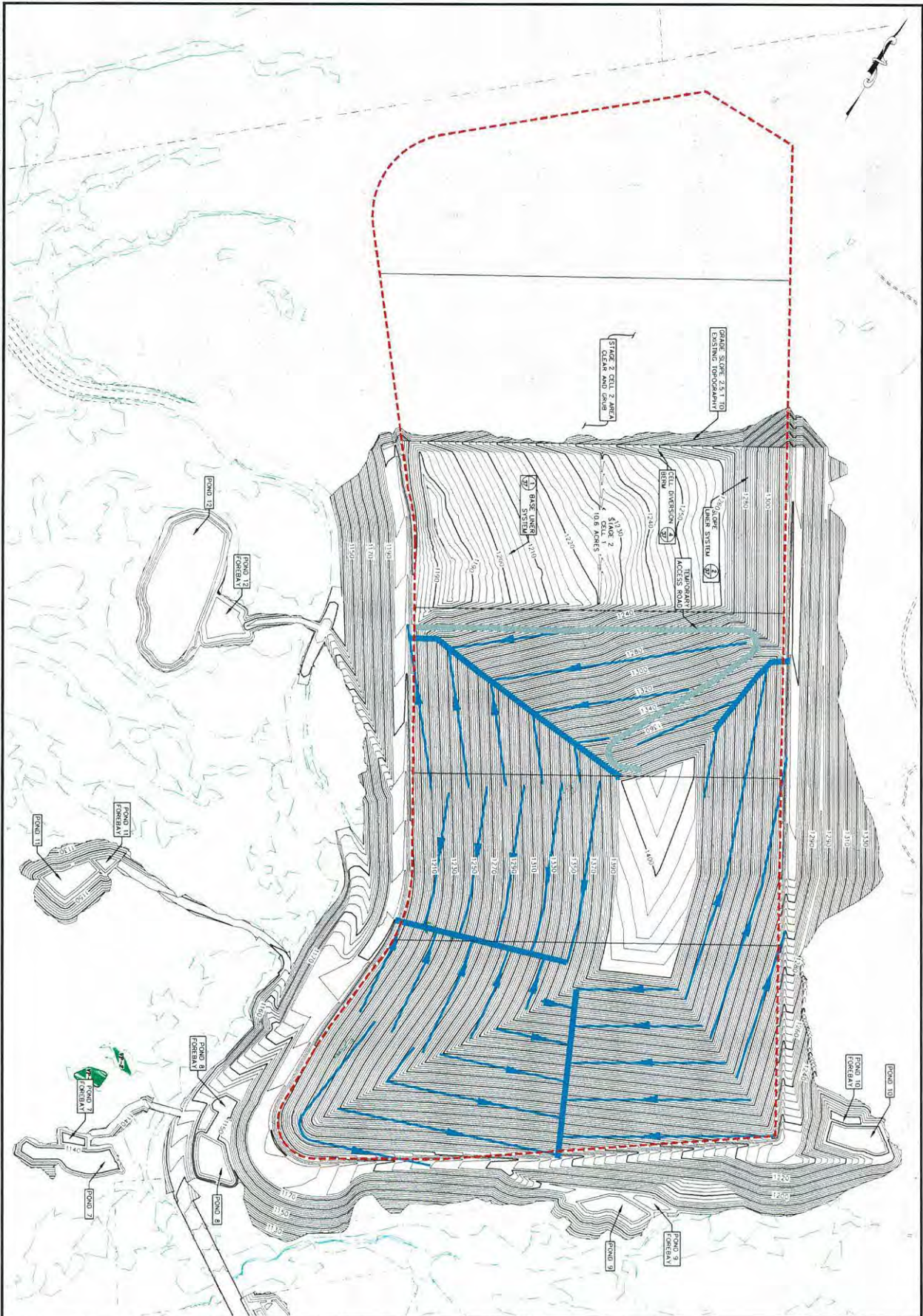
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| | SCALE: 1" = 120' | NO | | | REVISION | DATE | BY | |



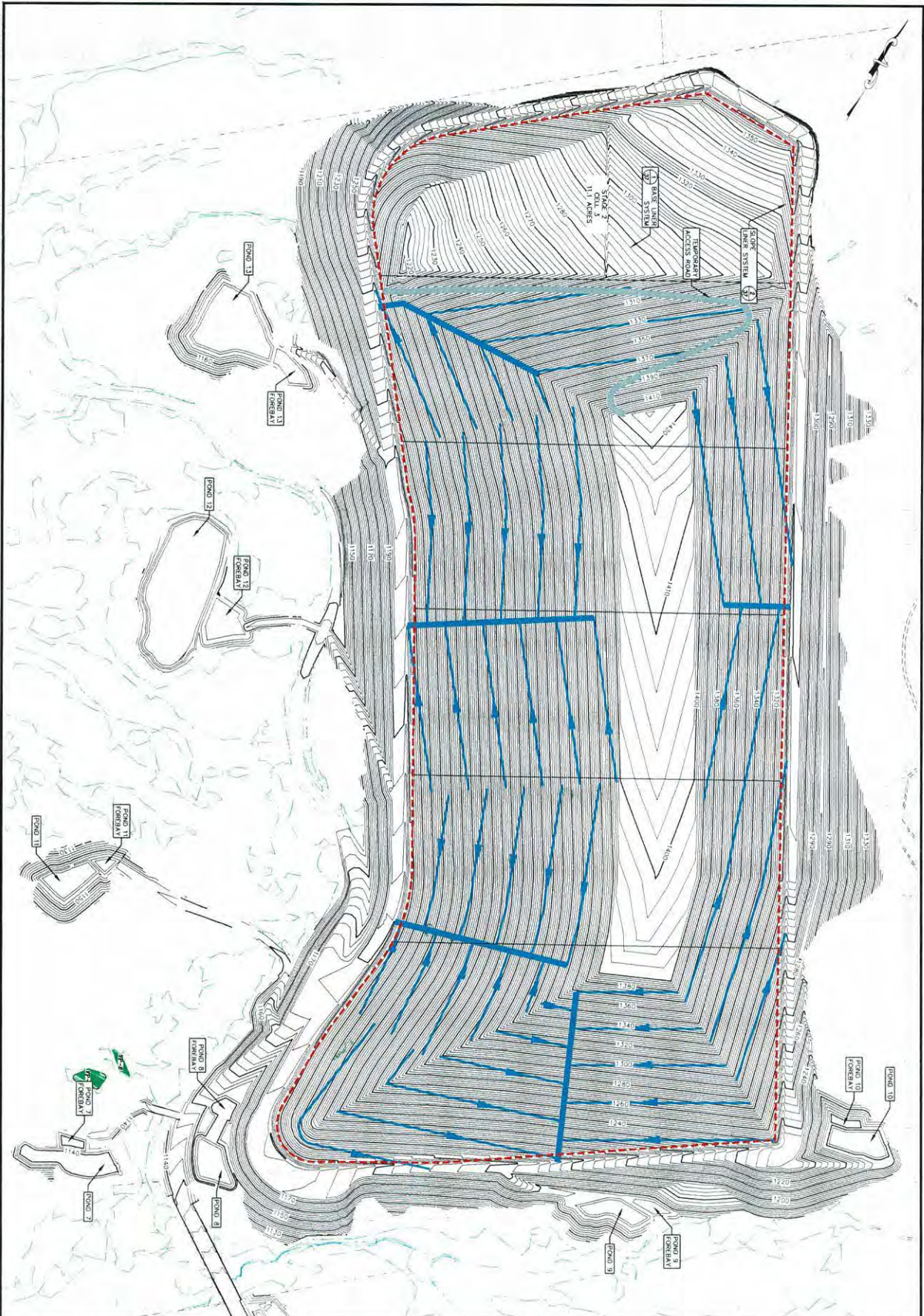
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|---------------------------------------|---|--|-----------------------|---------------------------------|--|--|
| INT-2 <small>Sheet 1 of 10</small> | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | | Date: October 2023 | Designed by: ATR/ALM/STF/AJS | | CMA ENGINEERS <small>ENVIRONMENTAL/GEOTECHNICAL</small> 1000 North Main Street, Suite 100 North Andover, MA 01845 Phone: 978-875-1100 Fax: 978-875-1101 Email: info@cma-engineers.com |
| | Interim Grading Plan Stage 1 Cell 2 | | Drawing No: 1101 | Checked by: AJS | | |
| | | | Scale: 1" = 100' | Approved by: AJS | | |



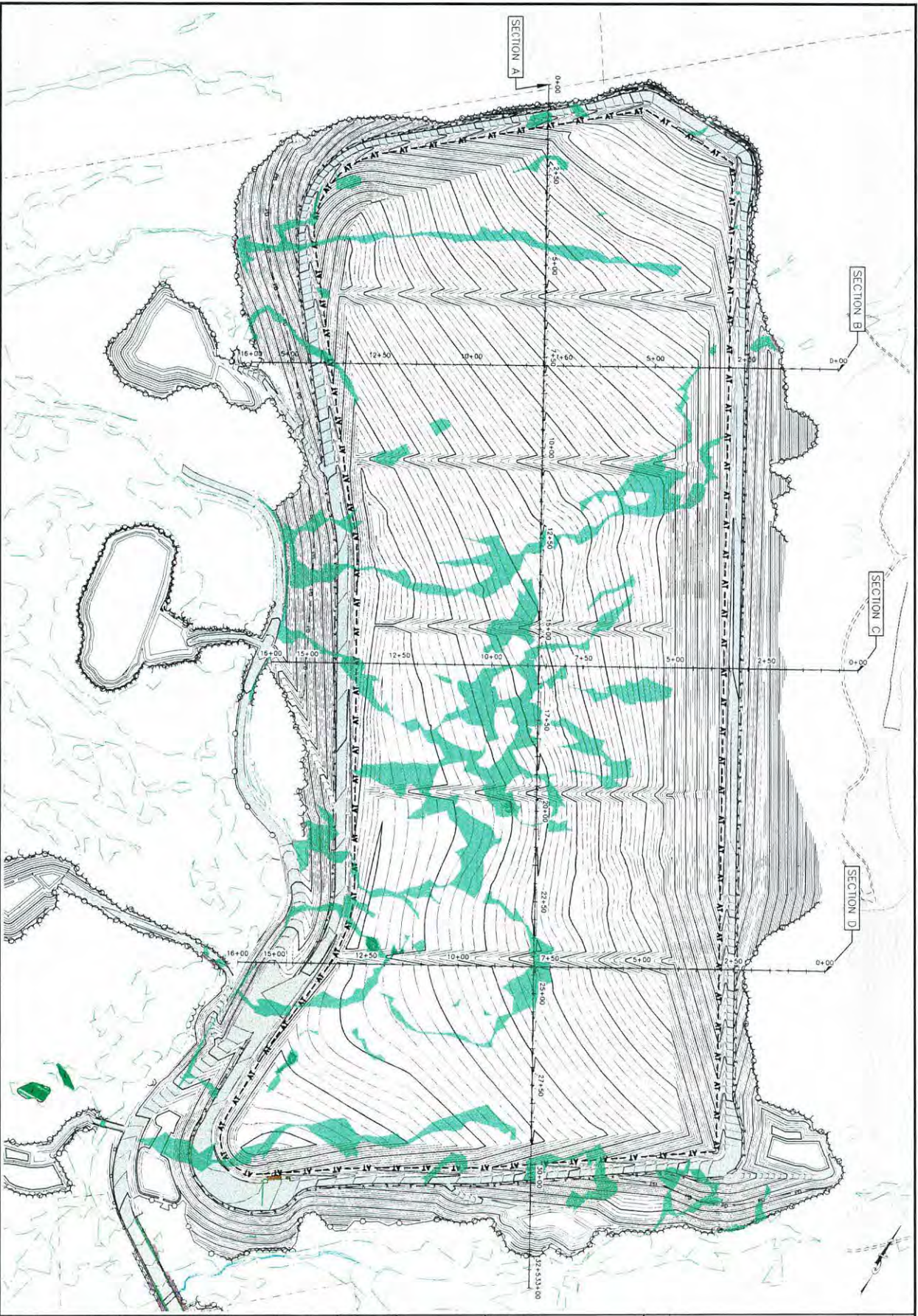
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| INT-3 <small>DATE: 10/27/23</small> | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | | date: October 2023 project no: 1101 created by: AJS scale: 1" = 20' | designed by: ATR/NJ/MSTF/AJS drawn by: ATR/NJ/MSTF approved by: AJS | | CMA ENGINEERS <small>CIVIL & ENVIRONMENTAL ENGINEERS</small> Portsmouth, NH • Manchester, NH • Portland, ME 603-261-6196 • 603-827-4708 • 207-841-4221 c.m.a.e.n.g.i.n.e.e.r.s., l.l.c. | revision: | date: | by: | |
| | Interim Grading Plan Stage 1 Cell 3 | | | | | | | | | |
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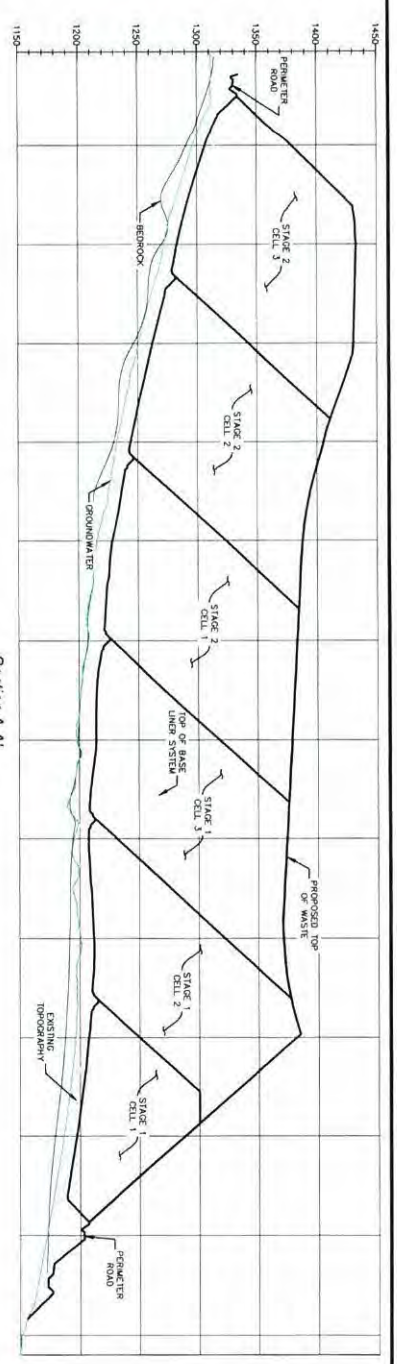
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| | GRANITE STATE LANDFILL, LLC DALTON, NEW HAMPSHIRE PERMITTING PLAN SET INTERIM GRADING PLAN STAGE 2 CELL 1 | | | | |



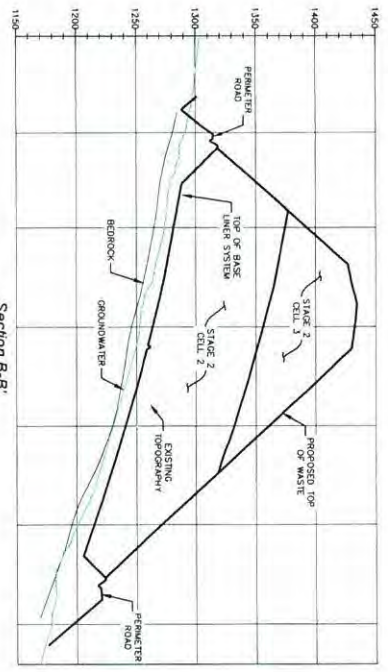
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|--|--|-------------------------------------|---|---|---|---|---------------------------------|----------------------------------|
| 9-TM1 <small>DATE</small> <small>SCALE</small> | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | <small>DATE</small> OCTOBER 2023 | <small>DESIGNED BY</small> ATR/N/M/STP/AJS |  | CMA ENGINEERS <small>CIVIL/ENVIRONMENTAL/GEOTECHNICAL</small> 1000 Main Street, Suite 200 Portsmouth, NH 03801 Phone: 603.431.1100 Fax: 603.431.1101 www.cma-engineers.com | <small>SCALE</small>  | <small>DATE</small> 10/23/23 | <small>SCALE</small> 1" = 20' |
| | Interim Grading Plan Stage 2 Cell 3 | <small>PROJECT NO.</small> 1101 | <small>DESIGNED BY</small> ATR/N/M/STP | | | | | |



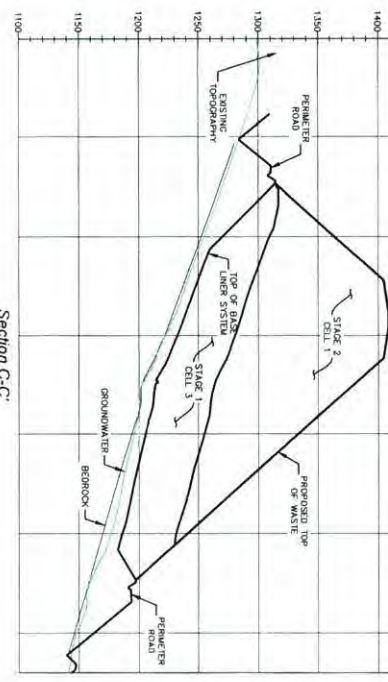
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|---|--|--|--|--|---|--------------------------|
| XS-1 <small>DATE PLOTTED: 10/23/2023 10:58:00 AM</small> | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | | DATE: October 2023 PROJECT NO: 1101 DRAWN BY: AJS CHECKED BY: AJS | DESIGNED BY: ATR/NJM/STF/AJS GRABED BY: ATR/NJM/STF APPROVED BY: AJS | CMA ENGINEERS <small>CIVIL/ENVIRONMENTAL/STRUCTURAL</small> 1000 W. Main Street, Suite 200 • Portland, ME 04102 TEL: 603.744.2222 FAX: 603.744.2223 WWW.CMAENGINEERS.COM | SCALE: 1" = 20' NORTH |
| | Landfill Cross Sections Sheet 1 | | | | | |
| | | | | | | |



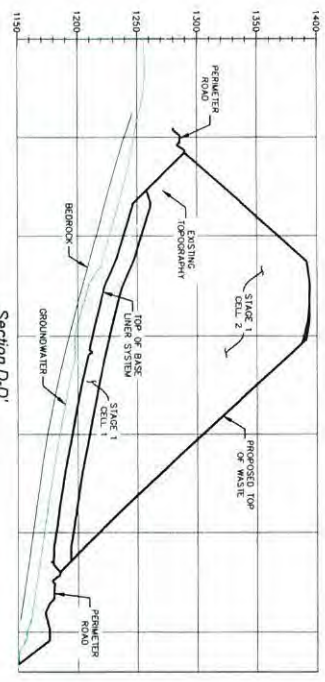
Section A-A'
 Horizontal 1" = 50'
 Vertical 1" = 50'



Section B-B'
 Horizontal 1" = 100'
 Vertical 1" = 50'



Section C-C'
 Horizontal 1" = 150'
 Vertical 1" = 50'



Section D-D'
 Horizontal 1" = 150'
 Vertical 1" = 50'

| | | |
|---|---|---|
| Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | Date: October 2023 Project no: 1101 Checked by: AJS | designed by: ATR/NUM/STF/AJS drawn by: ATR/NUM/STF approved by: AJS |
| | Landfill Cross Sections Sheet 2 | |



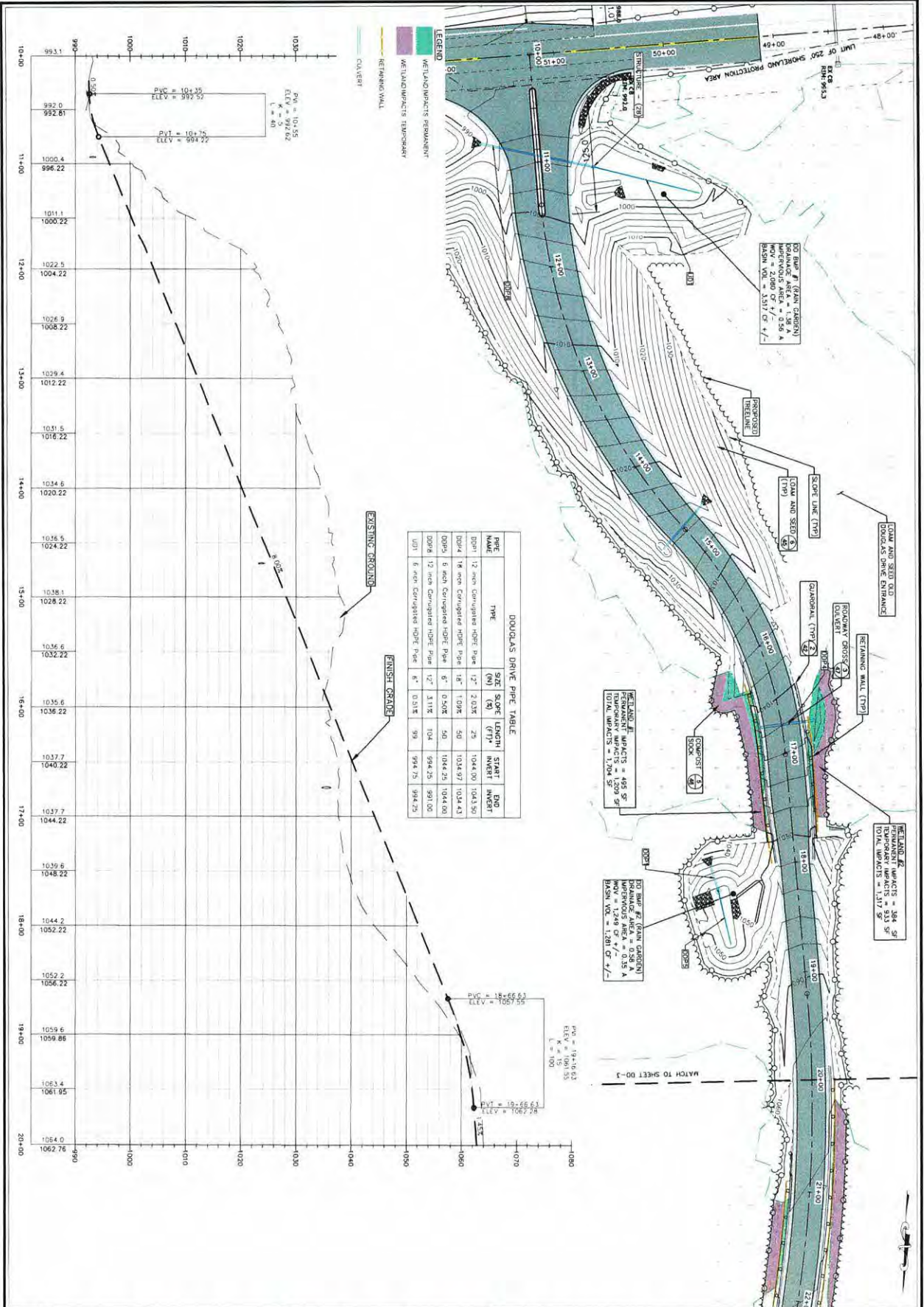
CMA ENGINEERS
 CIVIL/ENVIRONMENTAL/STRUCTURAL

Professional No. 8038416106 • Manufacturer No. 031667-0708 • Resident No. 2025414221

C M A E N G I N E E R S

| | |
|-----------|--------|
| Sheet: 27 | of: 28 |
|-----------|--------|

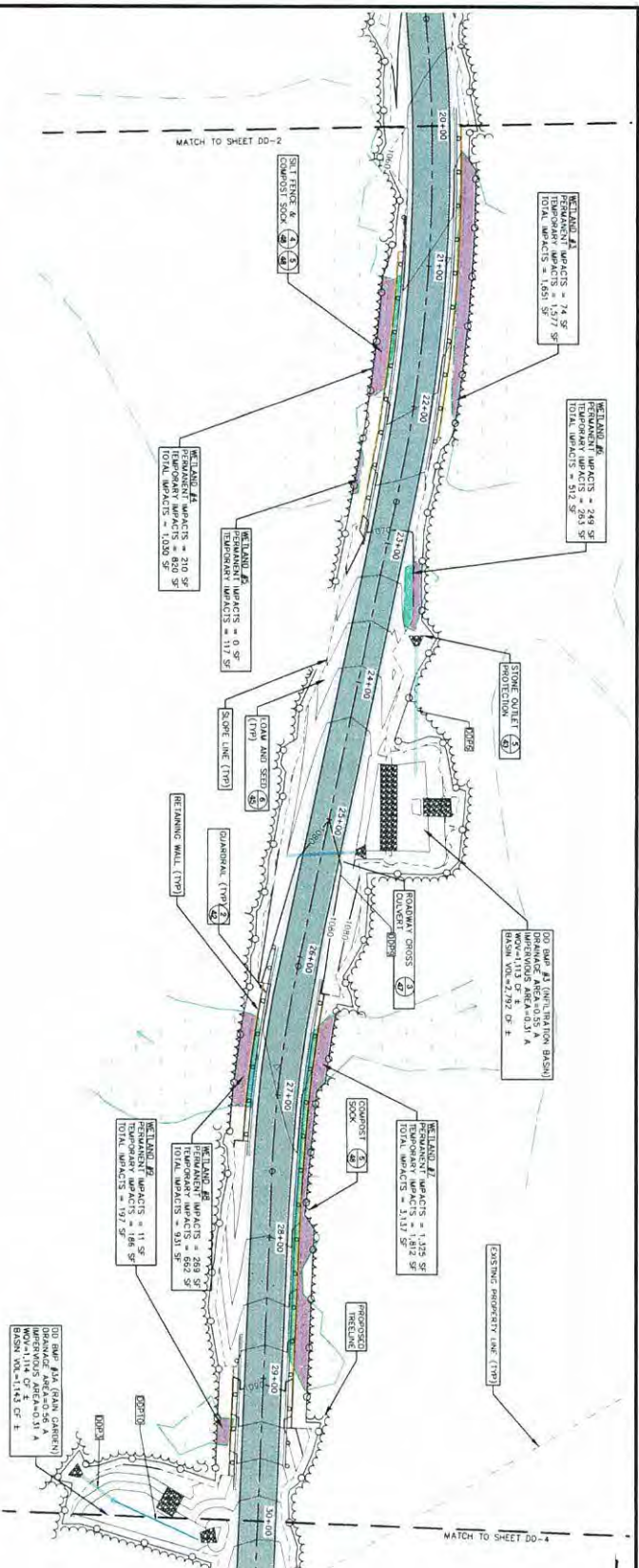
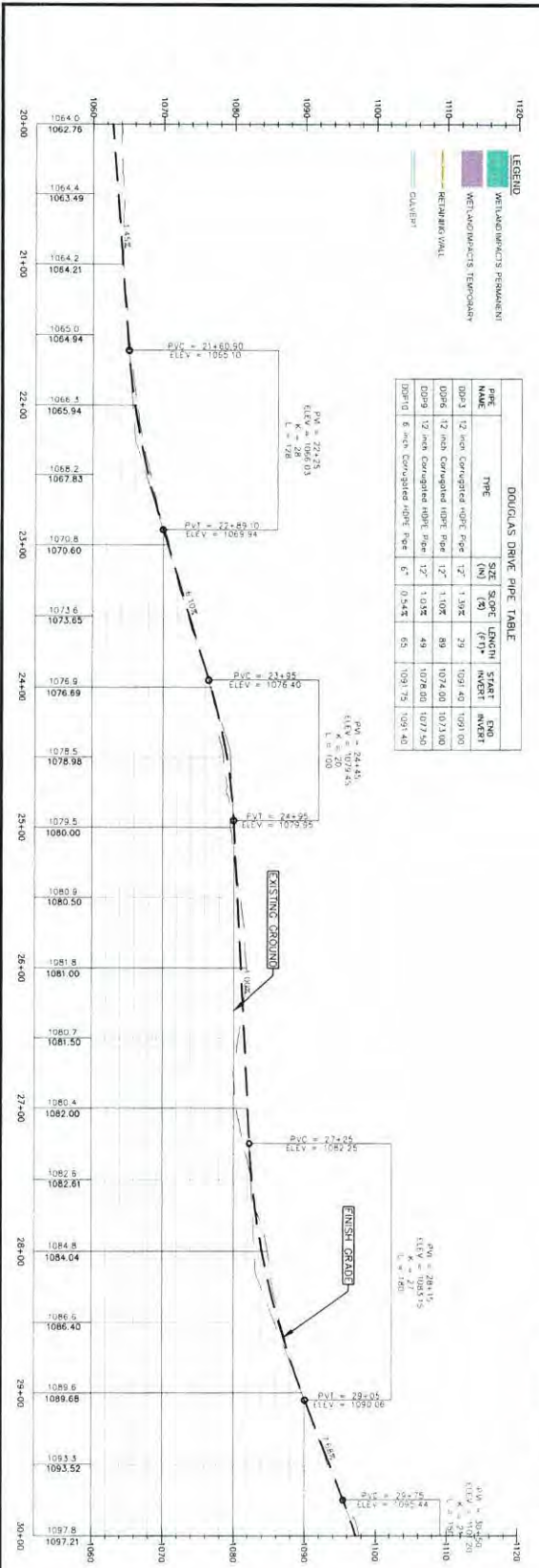




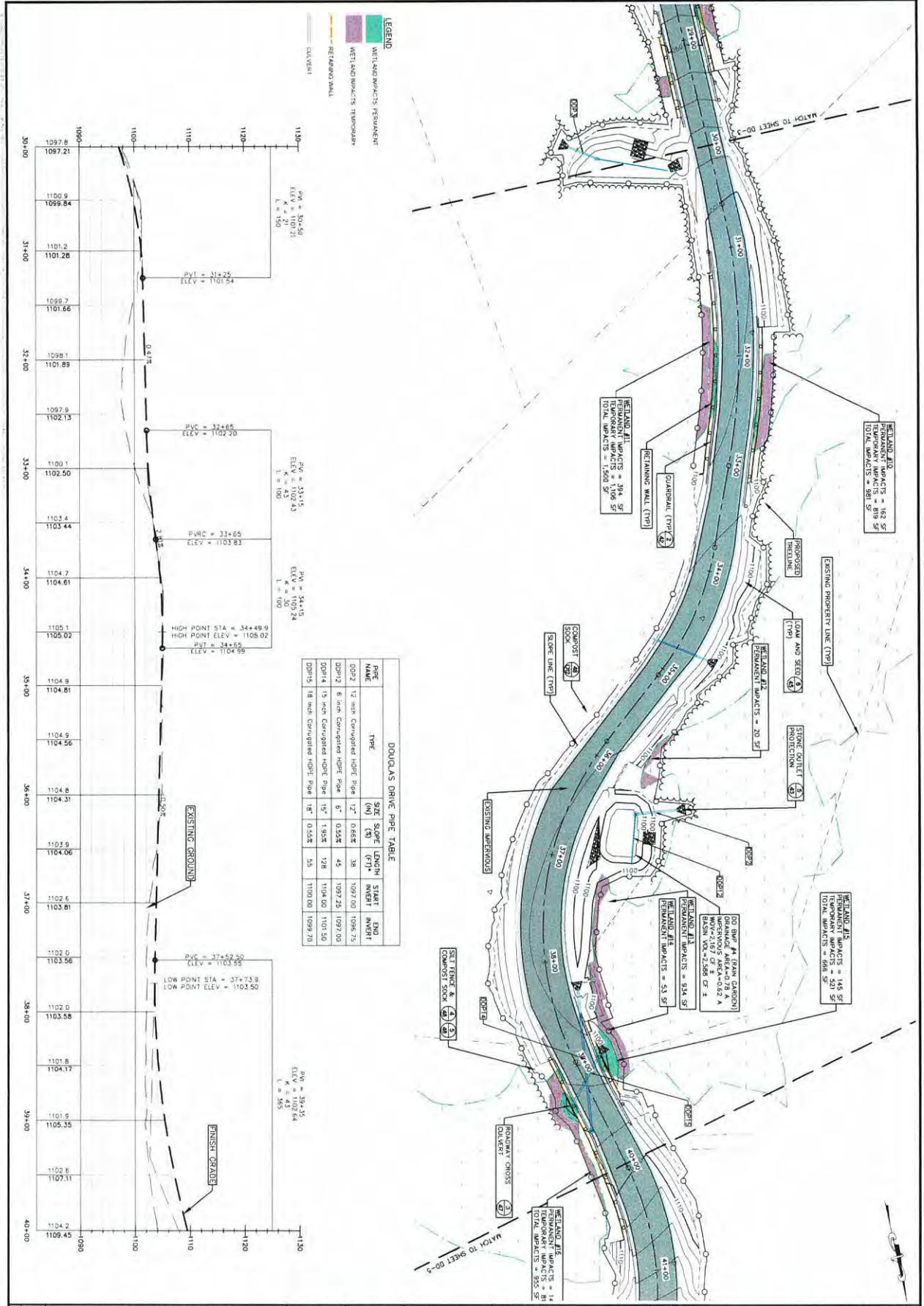
DOUGLAS DRIVE PIPE TABLE

| PIPE NAME | TYPE | SIZE | SLOPE | LENGTH (LN) | START INVERT | END INVERT |
|-----------|------------------------------|------|-------|-------------|--------------|------------|
| DD01 | 12 inch Corrugated HDPE Pipe | 12" | 2.03% | 29 | 1044.90 | 1044.90 |
| DD04 | 18 inch Corrugated HDPE Pipe | 18" | 1.09% | 50 | 1044.97 | 1044.43 |
| DD05 | 6 inch Corrugated HDPE Pipe | 6" | 0.50% | 50 | 1044.25 | 1044.00 |
| DD08 | 12 inch Corrugated HDPE Pipe | 12" | 3.11% | 104 | 994.25 | 991.00 |
| DD11 | 6 inch Corrugated HDPE Pipe | 6" | 0.18% | 93 | 994.75 | 994.25 |

| | | | | | |
|--------------------------------------|---|---|---|--|---|
| DD-2 Drawing No. 22-101-02 | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | Date: October 2023 Project No: 1101 Checked by: AJS | Designed by: ATR/NUMST/FA/S Drawn by: ATR/NUMST/FA/S Approved by: AJS | | CMA ENGINEERS ENVIRONMENTAL/STRUCTURAL 207 Main St., Manchester, NH 03101 603-627-3700 • 207-821-4223 cmaengineers.com |
| | Douglas Drive Plan and Profile Sheet 1 | | | | |



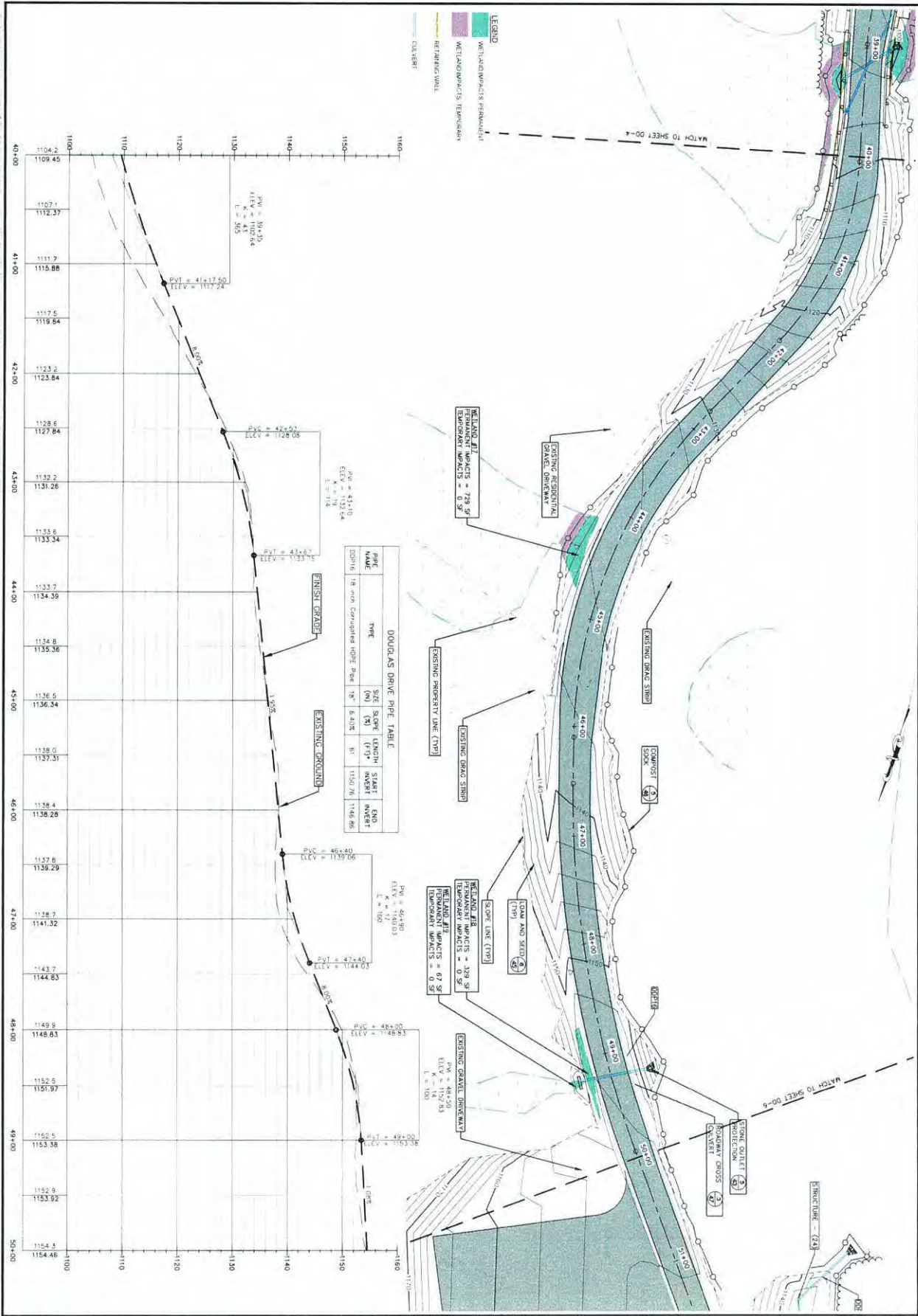
| | | | | |
|---|---|---|--|--|
| DD-3 Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set Douglas Drive Plan and Profile Sheet 2 | Date: October 2023 Project No: 1101 Checked by: AJS | Designed by: ATRN/MST/ALS Drawn by: ATRN/MST Approved by: AJS | | CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL 500 North Main Street, Suite 200 Concord, NH 03301 Phone: 603.271.1111 Fax: 603.271.1114 Website: www.cma-engineers.com |
| | MATCH TO SHEET DD-2 (top) / MATCH TO SHEET DD-4 (bottom) | | | |



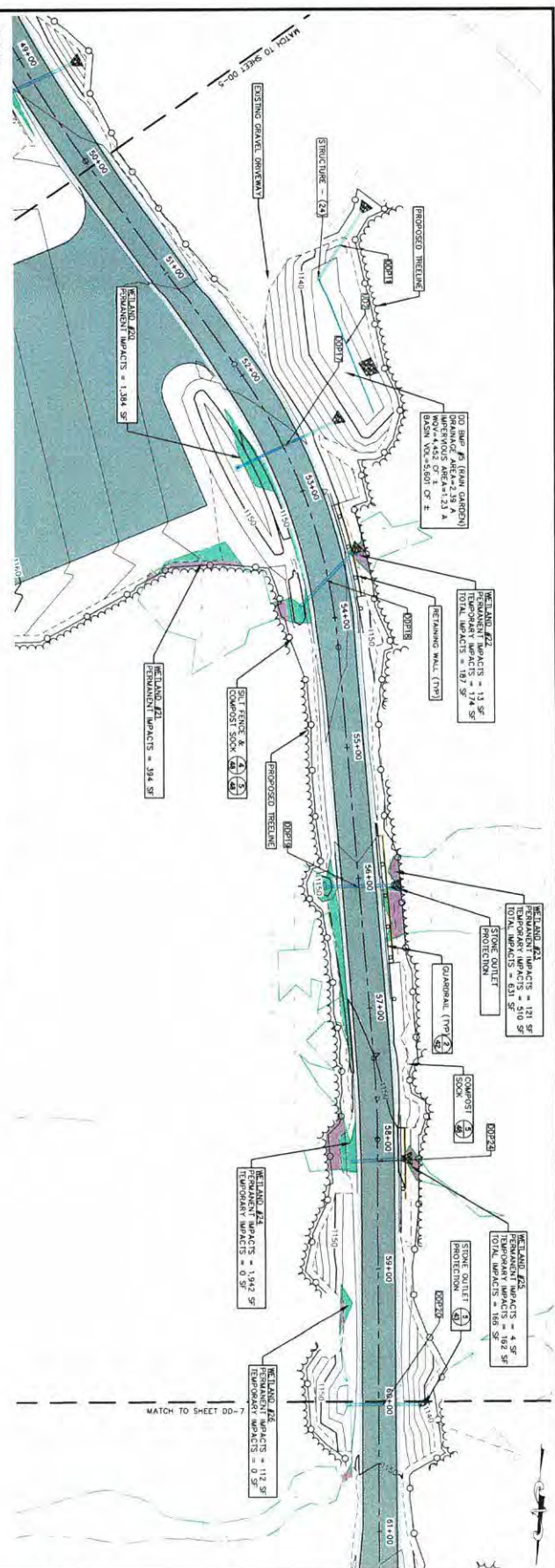
DOUGLAS DRIVE PIPE TABLE

| PIPE NAME | TYPE | SIZE | SLOPE | LENGTH (LN) | START INVERT | END INVERT |
|-----------|-----------------------------|------|-------|-------------|--------------|------------|
| 0021 | 12 inch Compacted Hoop Pipe | 12" | 0.65% | 38 | 1097.00 | 1096.75 |
| 0012 | 6 inch Compacted Hoop Pipe | 6" | 0.55% | 45 | 1097.25 | 1097.00 |
| 0014 | 15 inch Compacted Hoop Pipe | 15" | 1.95% | 728 | 1104.00 | 1101.50 |
| 0015 | 18 inch Compacted Hoop Pipe | 18" | 0.55% | 55 | 1100.00 | 1099.70 |

| | | | |
|--|--|---|--|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> <p>Douglas Drive Plan and Profile Sheet 3</p> | <p>DATE: October 2023</p> <p>DESIGNED BY: ATR/MLM/STF/AJS</p> <p>DRAWN BY: ATR/MLM/STF</p> <p>CHECKED BY: AJS</p> <p>SCALE: 1" = 40'</p> | <p>CMA ENGINEERS Civil/Environmental/Structural</p> <p>1000 Main Street, Dalton, NH 03827 603-271-1100</p> | <p>PROJECT NO: 1101</p> <p>DATE: 10/23/2023</p> <p>SCALE: 1" = 40'</p> |
| | <p>DD-4</p> | <p>PROJECT NO: 1101</p> <p>DATE: 10/23/2023</p> <p>SCALE: 1" = 40'</p> | <p>PROJECT NO: 1101</p> <p>DATE: 10/23/2023</p> <p>SCALE: 1" = 40'</p> |



| | | | |
|---|--|--|---|
| DD-5 PERMITTING PLAN SET DOUGLAS DRIVE PLAN AND PROFILE SHEET 4 | GRANITE STATE LANDFILL, LLC DALTON, NEW HAMPSHIRE | DATE: OCTOBER 2023 DRAWN BY: ATR/NJM/STF/AJS CHECKED BY: ATR/NJM/STF APPROVED BY: AJS | CMA ENGINEERS CIVIL ENGINEERING & SURVEYING 1100 WASHINGTON ST., SUITE 200 DALTON, NH 03827 TEL: 603-271-1111 FAX: 603-271-1112 |
| | PERMITTING PLAN SET DOUGLAS DRIVE PLAN AND PROFILE SHEET 4 | | |

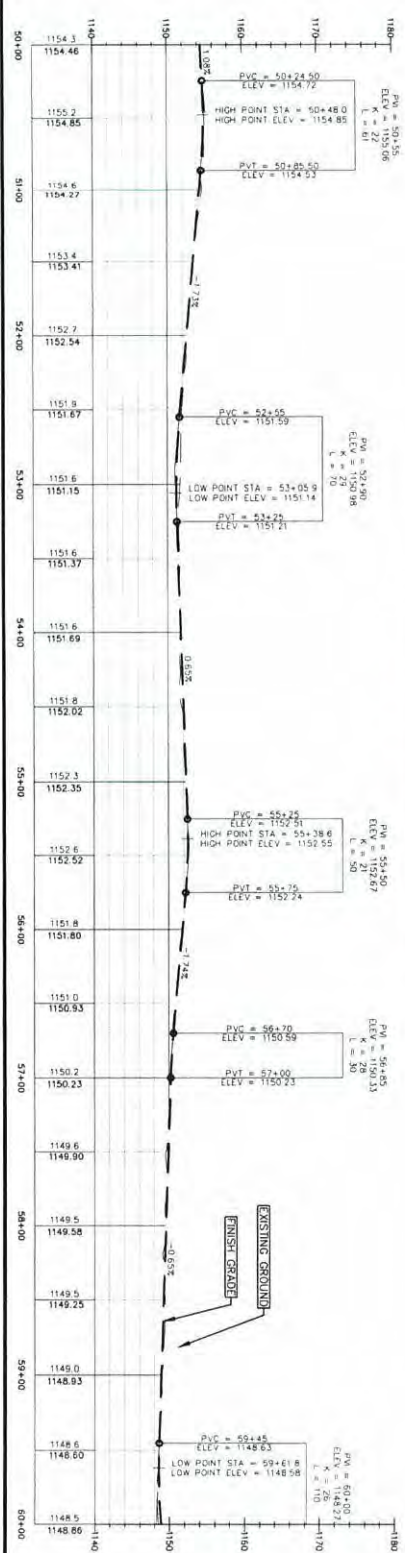


LEGEND

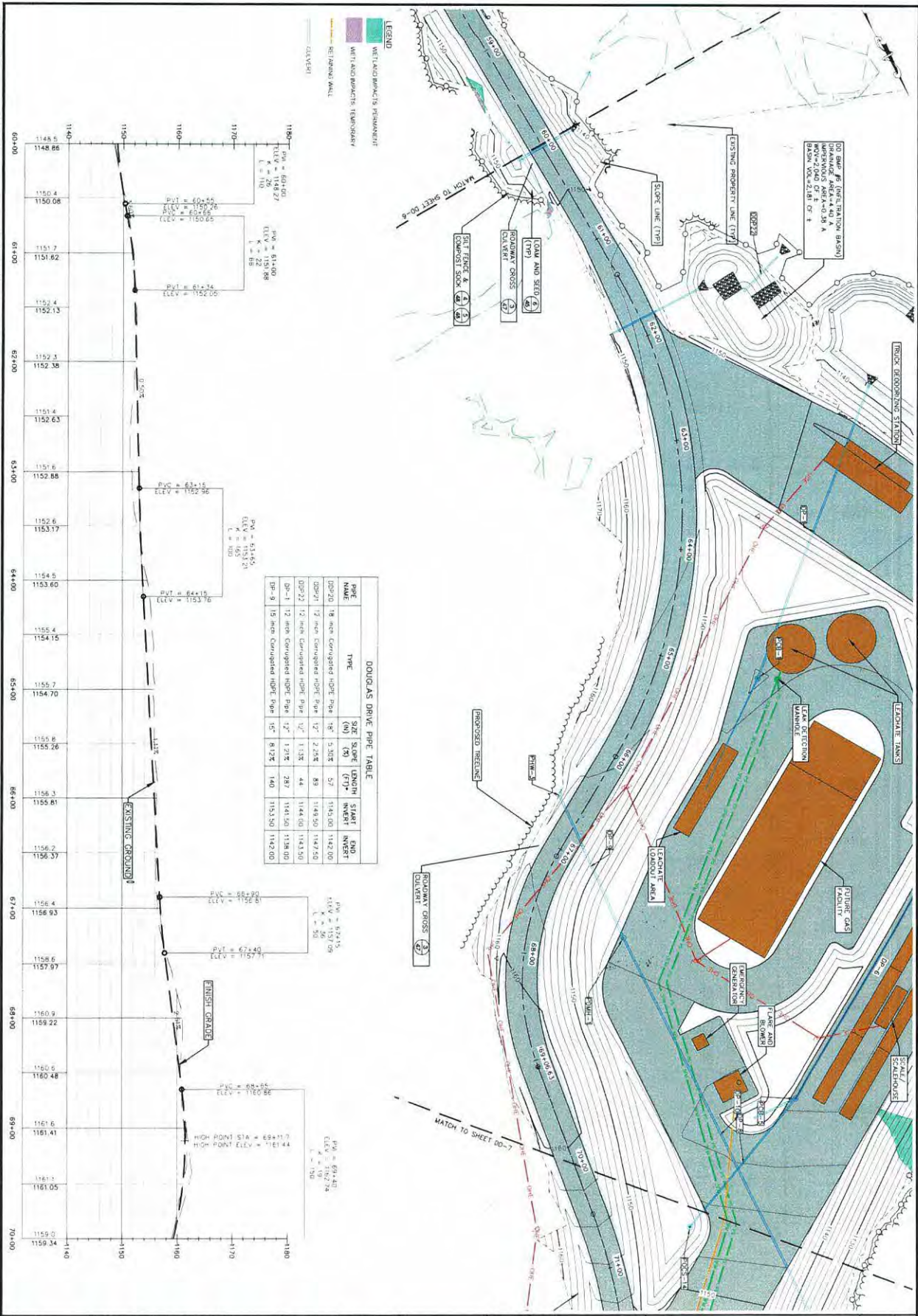
- METLAND IMPACTS PERMANENT
- METLAND IMPACTS TEMPORARY
- RETAINING WALL
- CONVERT

DOUGLAS DRIVE PIPE TABLE

| PIPE NAME | TYPE | SIZE (IN) | SLOPE (%) | LENGTH (FT) | START INVERT | END INVERT |
|-----------|------------------------------|-----------|-----------|-------------|--------------|------------|
| DDP#11 | 12 inch Corrugated HDPE pipe | 12" | 0.45% | 61 | 1133.20 | 1132.90 |
| DDP#17 | 12 inch Corrugated HDPE pipe | 12" | 6.18% | 81 | 1147.00 | 1142.00 |
| DDP#18 | 18 inch Corrugated HDPE pipe | 18" | 2.41% | 58 | 1148.00 | 1147.00 |
| DDP#19 | 18 inch Corrugated HDPE pipe | 18" | 1.12% | 51 | 1148.57 | 1148.00 |
| DDP#24 | 18 inch Corrugated HDPE pipe | 18" | 2.62% | 38 | 1148.00 | 1147.00 |
| DDP#25 | 6 inch Corrugated HDPE pipe | 6" | 0.48% | 114 | 1133.75 | 1133.50 |



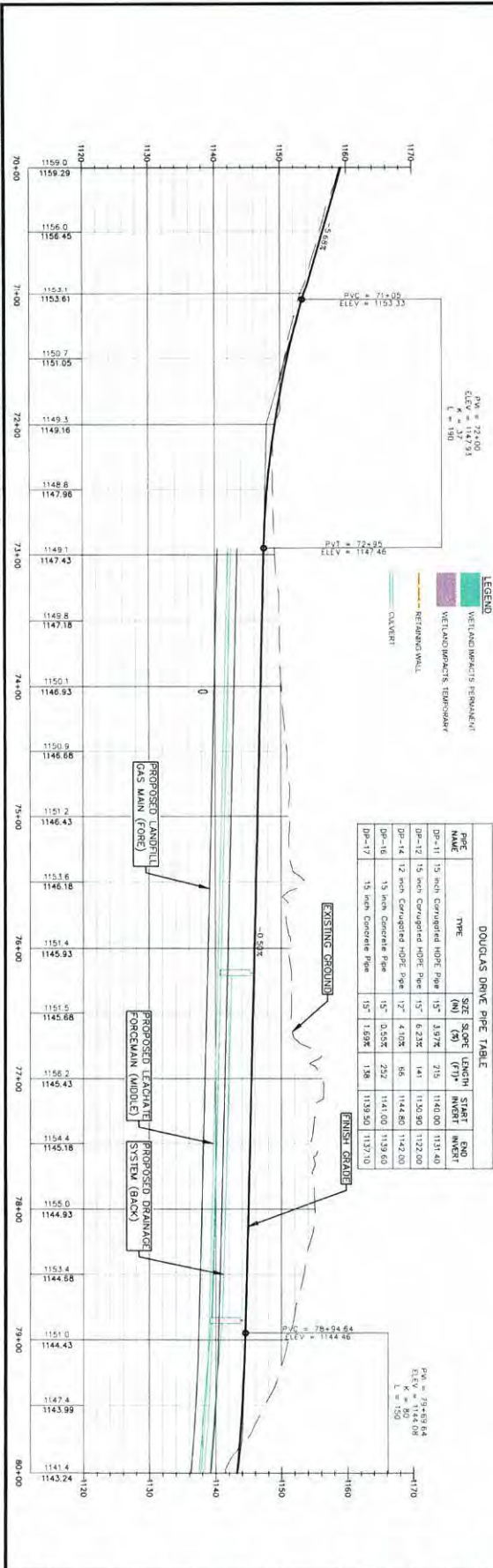
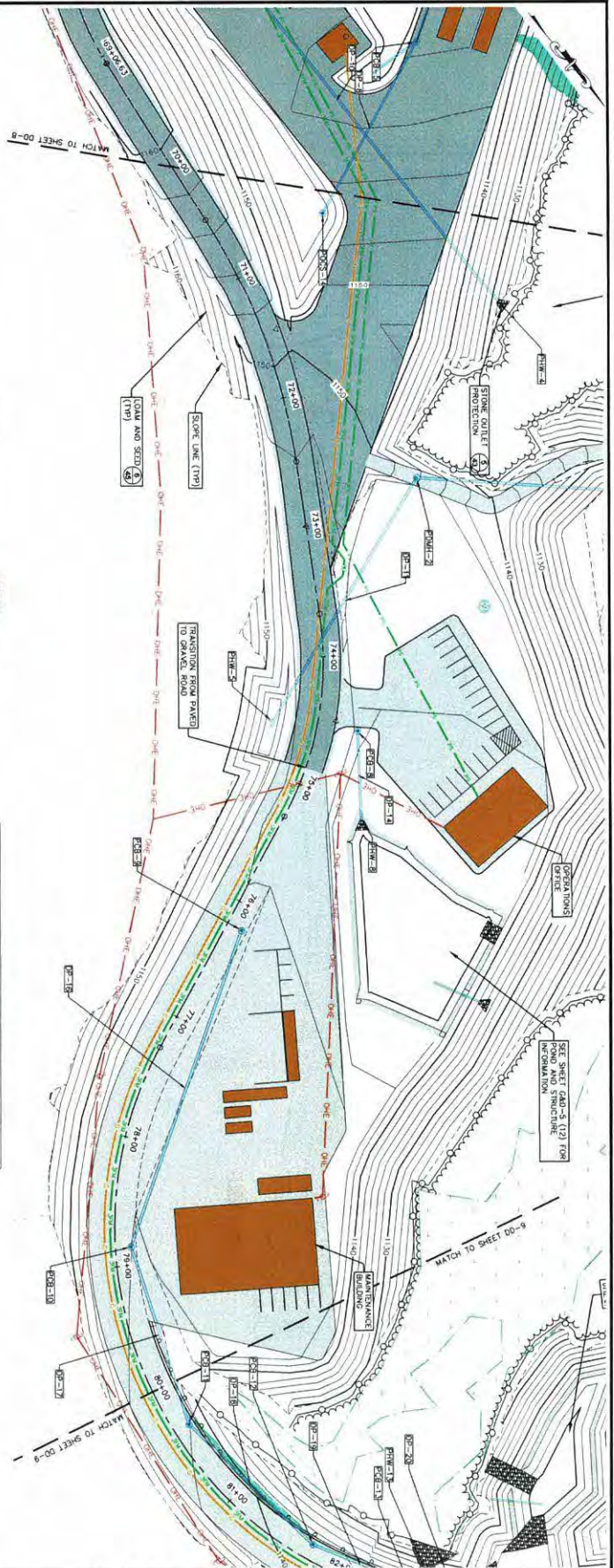
| | | | | |
|--------------------|--|--|--|---|
| <p>DD-6</p> | <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> | <p>date: October 2023 project no: 1101 checked by: AJS</p> | <p>designed by: ATR/NJM/STF/AJS drawn by: ATR/NJM/STF approved by: AJS</p> | <p>CMA ENGINEERS Civil/Environmental/AS/Structural</p> <p>Portland, NH • Manchester, NH • Portland, ME 603-421-8198 • 603-421-7773 • 207-421-4223 CMAENGINEERS.COM</p> |
| | <p>Douglas Drive Plan and Profile Sheet 5</p> | <p>SCALE 1" = 40'</p> | <p>DATE: 10/23/2023</p> | |



DOUGLAS DRIVE PIPE TABLE

| PIPE MADE | TYPE | SIZE (IN) | SLOPE (%) | LENGTH (FT) | START INVERT | END INVERT |
|-----------|------------------------------|-----------|-----------|-------------|--------------|------------|
| DP-20 | 18 inch Corrugated High Pipe | 18" | 5.20% | 57' | 1145.00 | 1142.00 |
| DP-21 | 12 inch Corrugated High Pipe | 12" | 2.25% | 89' | 1148.50 | 1147.50 |
| DP-22 | 12 inch Corrugated High Pipe | 12" | 1.13% | 44' | 1144.00 | 1143.50 |
| DP-1 | 12 inch Corrugated High Pipe | 12" | 1.71% | 287' | 1141.50 | 1138.00 |
| DP-3 | 15 inch Corrugated High Pipe | 15" | 8.72% | 140' | 1153.50 | 1142.00 |

| | | | |
|--|---|---|--|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> <p>Douglas Drive Plan and Profile Sheet 6</p> | <p>DATE: 02/23/2023</p> <p>DESIGNED BY: ATR/MLM/STF/AJS</p> <p>DRAWN BY: ATR/MLM/STF</p> <p>CHECKED BY: AJS</p> <p>APPROVED BY: AJS</p> | <p>CMA ENGINEERS</p> <p>CIVIL, ENVIRONMENTAL & GEOTECHNICAL</p> <p>1000 Main Street, Suite 100 Dalton, NH 03826</p> <p>TEL: 603.741.4235</p> <p>WWW.CMAENGINEERS.COM</p> | <p>PROJECT NO: DD-7</p> <p>SHEET NO: 6</p> |
| | <p>Scale: 1" = 40'</p> | | |



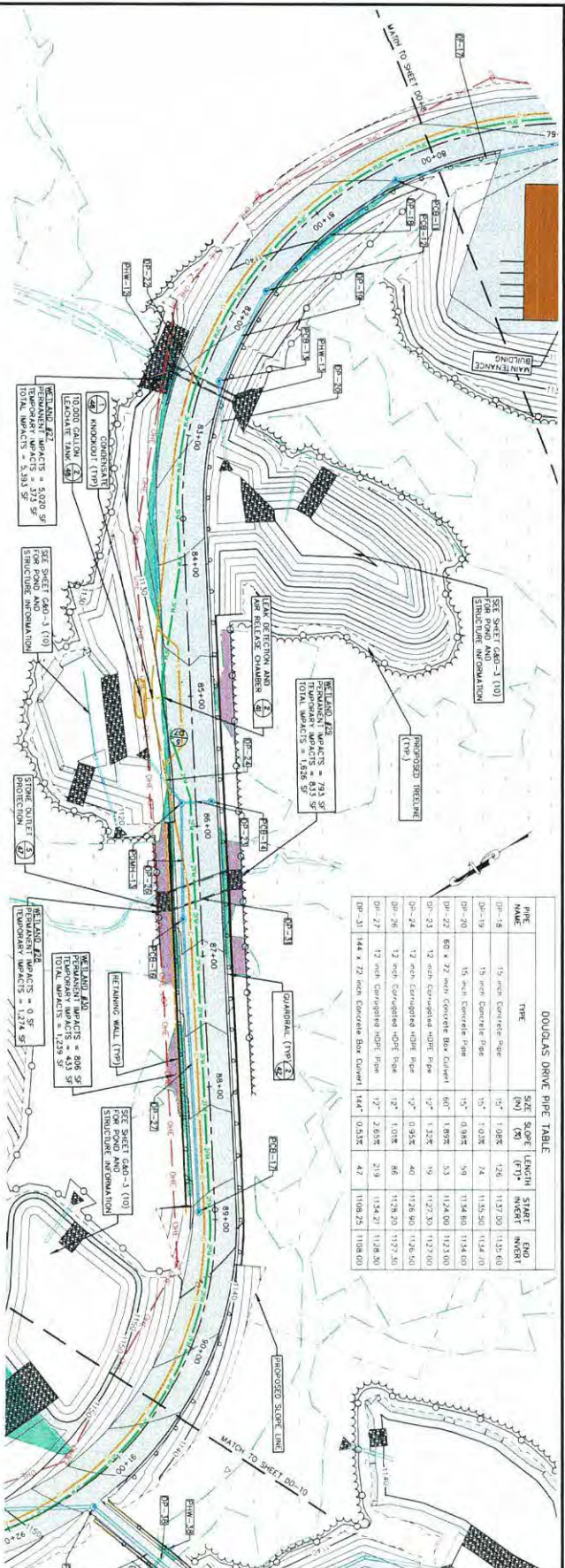
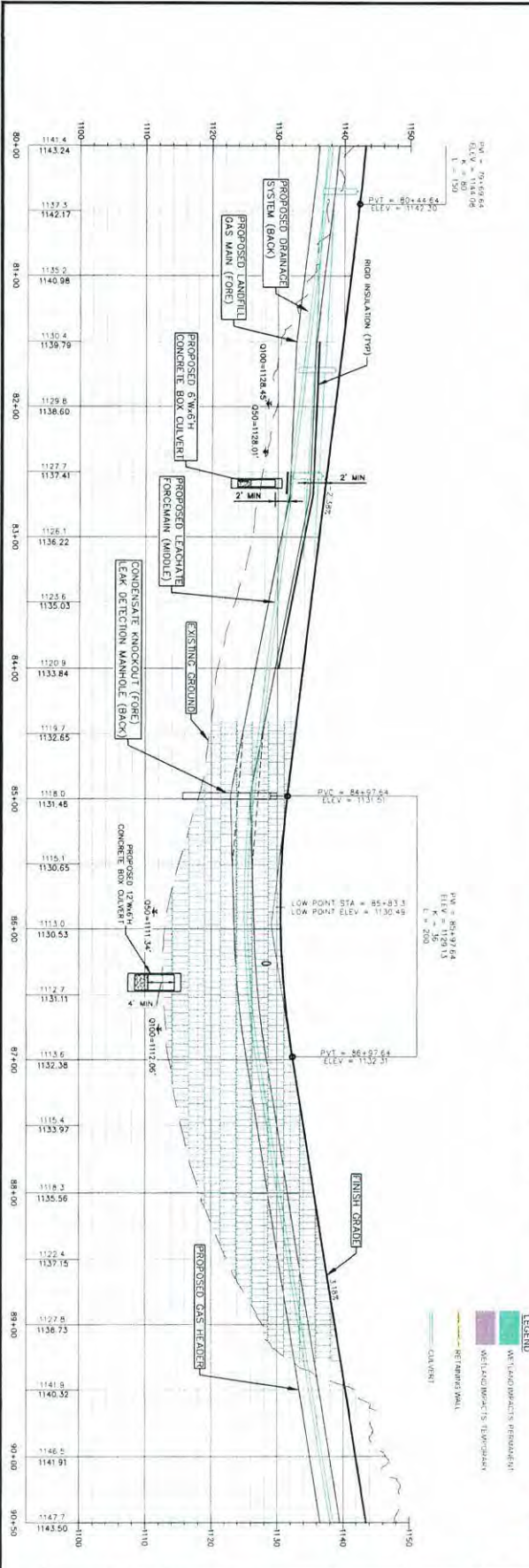
LEGEND

- WETLANDS/MAJOR'S PERMANENT
- WETLANDS/MAJOR'S TEMPORARY
- RETAINING WALL
- CAULVERT

DOUGLAS DRIVE PIPE TABLE

| PIPE NAME | TYPE | SIZE (IN) | SCOPE (LN) | LENGTH (FT) | START INVERT | END INVERT |
|-----------|------------------------------|-----------|------------|-------------|--------------|------------|
| DP-11 | 15 inch Corrugated HDPE Pipe | 15" | 3.97% | 715 | 1143.00 | 1131.40 |
| DP-12 | 15 inch Corrugated HDPE Pipe | 15" | 6.23% | 141 | 1130.80 | 1122.00 |
| DP-14 | 12 inch Corrugated HDPE Pipe | 12" | 4.03% | 86 | 1144.80 | 1142.00 |
| DP-16 | 15 inch Concrete Pipe | 15" | 0.53% | 252 | 1141.00 | 1139.60 |
| DP-17 | 15 inch Concrete Pipe | 15" | 1.59% | 138 | 1139.50 | 1137.10 |

| | | | |
|---|--|--|---|
| <p>Granite State Landfill, LLC Dalton, New Hampshire</p> <p>Permitting Plan Set</p> <p>Douglas Drive Plan and Profile Sheet 7</p> | <p>date: October 2023</p> <p>project no: 1101</p> <p>checked by: AUS</p> | <p>designed by: ATR/NJM/STF/AJS</p> <p>drawn by: ATR/NJM/STF</p> <p>approved by: AUS</p> | <p>CMA ENGINEERS</p> <p>Civil/Environmental/Structural</p> <p>Portland, NH • Manchester, NH • Portsmouth, NH</p> <p>603-431-6156 • 603-862-7375 • 603-741-4221</p> <p>C. M. A. E. N. G. I. N. E. E. R. S., P. C.</p> |
| | <p>DD-8</p> | | |



DOUGLAS DRIVE PIPE TABLE

| PIPE NAME | TYPE | SIZE | SLOPE (%) | LENGTH (ft) | START INVERT | END INVERT |
|-----------|------------------------------------|------|-----------|-------------|--------------|------------|
| DR-18 | 15 inch Concrete Pipe | 15" | 1.08% | 726 | 1137.00 | 1135.60 |
| DR-19 | 15 inch Concrete Pipe | 15" | 1.03% | 74 | 1135.90 | 1134.70 |
| DR-20 | 15 inch Concrete Pipe | 15" | 0.98% | 59 | 1134.80 | 1134.00 |
| DR-22 | 60 x 72 inch Concrete Box Culvert | 60" | 1.89% | 53 | 1124.00 | 1123.00 |
| DR-23 | 12 inch Corrugated metal pipe | 12" | 1.32% | 19 | 1127.30 | 1127.00 |
| DR-24 | 12 inch Corrugated metal pipe | 12" | 0.95% | 40 | 1126.80 | 1126.50 |
| DR-26 | 12 inch Corrugated metal pipe | 12" | 1.03% | 66 | 1128.20 | 1127.20 |
| DR-27 | 144 x 72 inch Concrete Box Culvert | 144" | 0.53% | 219 | 1124.27 | 1128.90 |
| DR-28 | 144 x 72 inch Concrete Box Culvert | 144" | 0.53% | 47 | 1108.25 | 1108.00 |

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

Douglas Drive
Plan and Profile Sheet 8

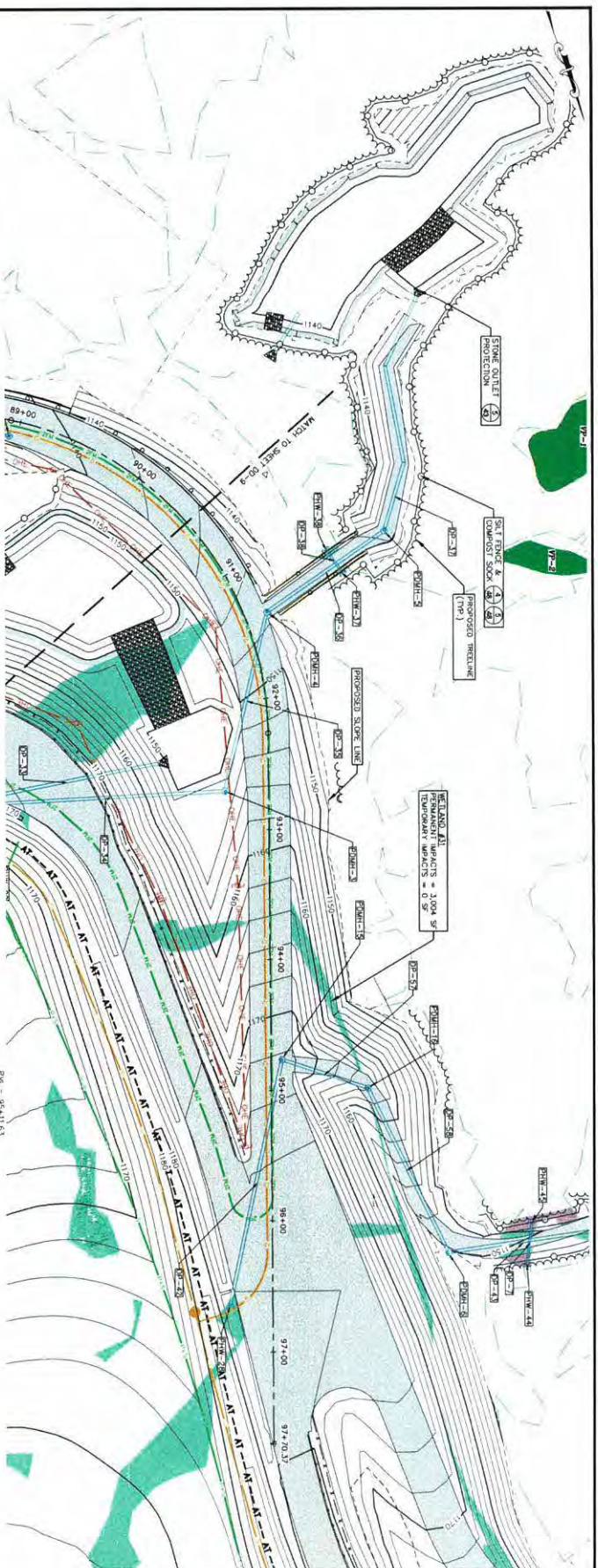
DD-9

CMA ENGINEERS
1000 Main Street, Dalton, NH 03827
Tel: 603-441-4100

DATE: October 2023
PROJECT NO: 1101
DRAWN BY: AJS
CHECKED BY: AJS

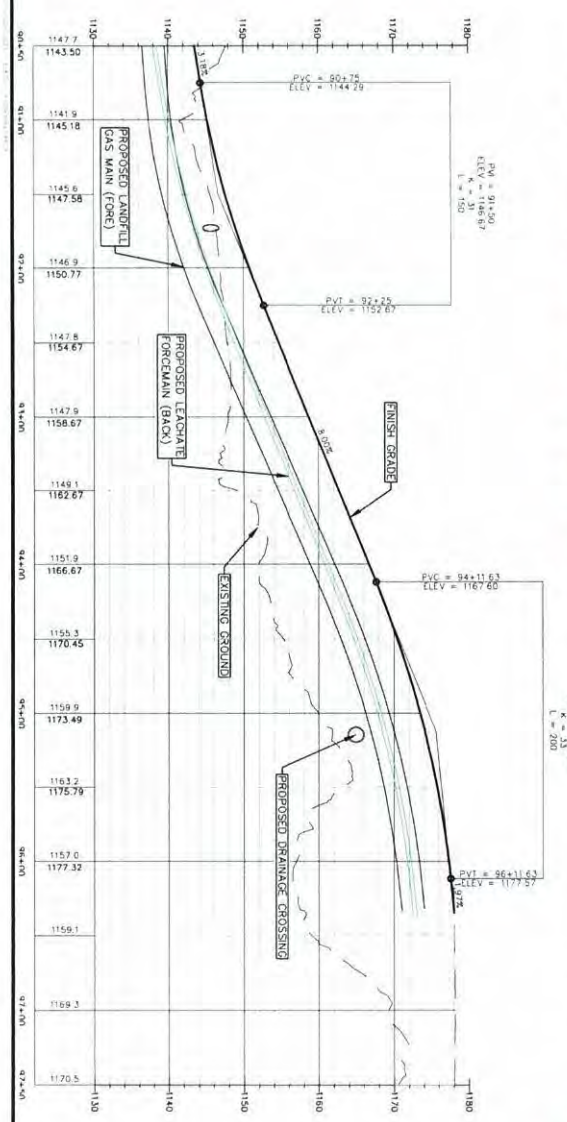
APPROVED BY: [Signature]


SCALE: 1" = 40'

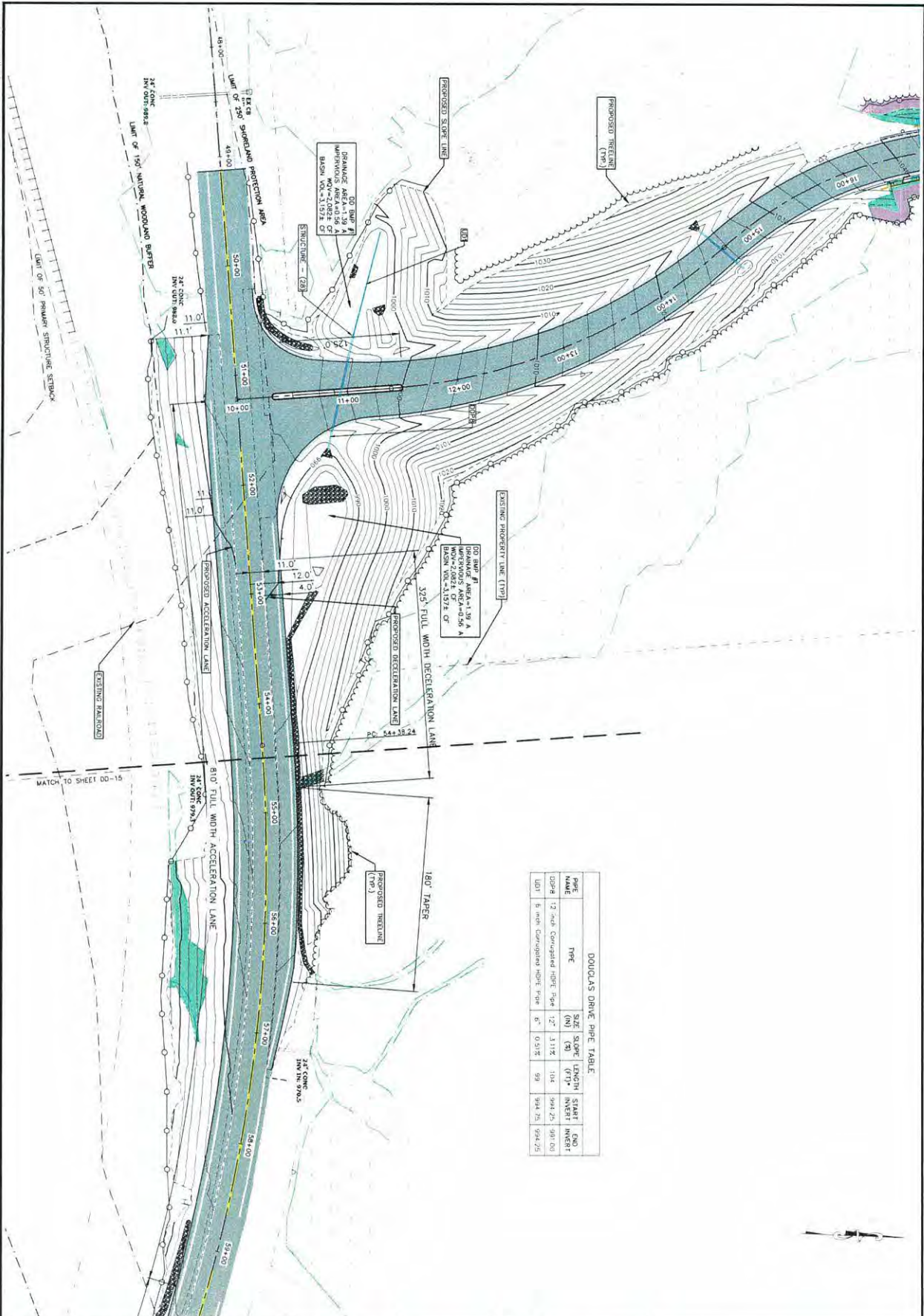


DOUGLAS DRIVE P&E TABLE

| PIPE NAME | TYPE | SIZE (IN) | SCOPE (FT) | LENGTH (FT) | START INVERT | END INVERT |
|-----------|------------------------------|-----------|------------|-------------|--------------|------------|
| DP-7 | 12 inch Corrugated HDPE Pipe | 12" | 1.58% | 32 | 1143.50 | 1145.00 |
| DP-13 | 24 inch Corrugated HDPE Pipe | 24" | 1.03% | 143 | 1169.00 | 1142.00 |
| DP-14 | 24 inch Corrugated HDPE Pipe | 24" | 2.13% | 181 | 1169.00 | 1147.00 |
| DP-15 | 24 inch Corrugated HDPE Pipe | 24" | 3.14% | 136 | 1147.00 | 1144.00 |
| DP-16 | 24 inch Corrugated HDPE Pipe | 24" | 1.01% | 105 | 1144.00 | 1142.00 |
| DP-18 | 15 inch Corrugated HDPE Pipe | 15" | 1.26% | 20 | 1137.75 | 1137.50 |
| DP-42 | 24 inch Corrugated HDPE Pipe | 24" | 1.92% | 192 | 1175.00 | 1161.12 |
| DP-43 | 24 inch Corrugated HDPE Pipe | 24" | 0.24% | 111 | 1147.20 | 1146.60 |
| DP-45 | 24 inch Corrugated HDPE Pipe | 24" | 1.01% | 31 | 1137.25 | 1136.75 |
| DP-47 | 24 inch Corrugated HDPE Pipe | 24" | 0.25% | 65 | 1161.12 | 1154.06 |
| DP-48 | 24 inch Corrugated HDPE Pipe | 24" | 4.92% | 135 | 1154.06 | 1147.20 |



| | | | | |
|--------------|---|---|---|--|
| DD-10 | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | DATE: October 2023 PROJECT NO: 1101 CHECKED BY: AJS | DESIGNED BY: ATR/NUM/STF/AJS DRAWN BY: ATR/NUM/STF APPROVED BY: AJS |  CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL PORTSMOUTH, NH • MANCHESTER, NH • PORTLAND, ME 603-876-1196 • 603-877-0708 • 207-431-4221 C H A E N G I N E E R S C O M |
| | Douglas Drive Plan and Profile Sheet 9 | Scale: 1" = 40' (PLAN) 1" = 10' (PROFILE) | | |



DOUGLAS DRIVE PIPE TABLE

| PIPE MADE | TYPE | SIZE (IN) | SLOPE (%) | LENGTH (FT) | START INVERT | END INVERT |
|-----------|------------------------------|-----------|-----------|-------------|--------------|------------|
| 02P8 | 12 inch Corrugated HDPE Pipe | 12" | 3.11% | 104 | 994.25 | 997.00 |
| UDT | 6 inch Corrugated HDPE Pipe | 6" | 0.51% | 99 | 994.25 | 994.25 |

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

Douglas Drive
Rout 116 Plan Sheet 1

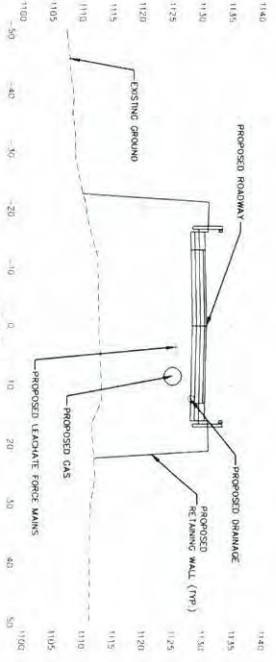
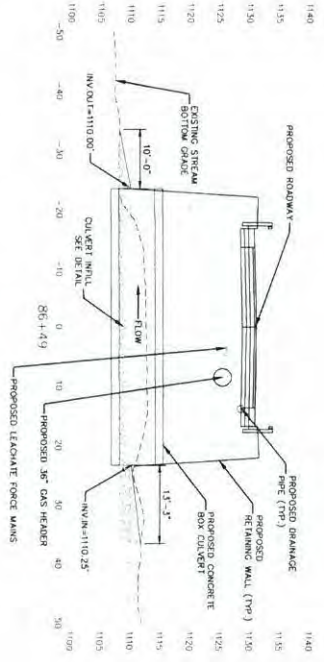
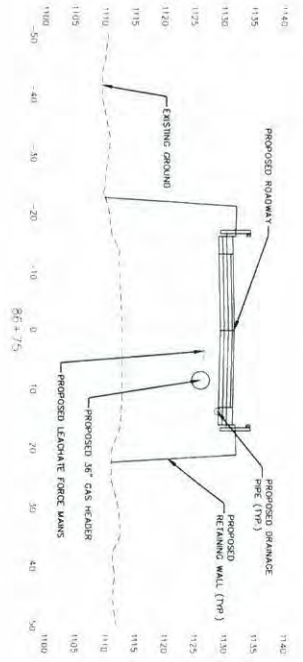
Date: October 2023
Designed by: ATRN/JM/ST/AJS
Project No: 1101
Drawn by: ATRN/JM/ST
Checked by: AJS
Scale: 1" = 40'



CMA ENGINEERS
Civil/Environmental/Structural

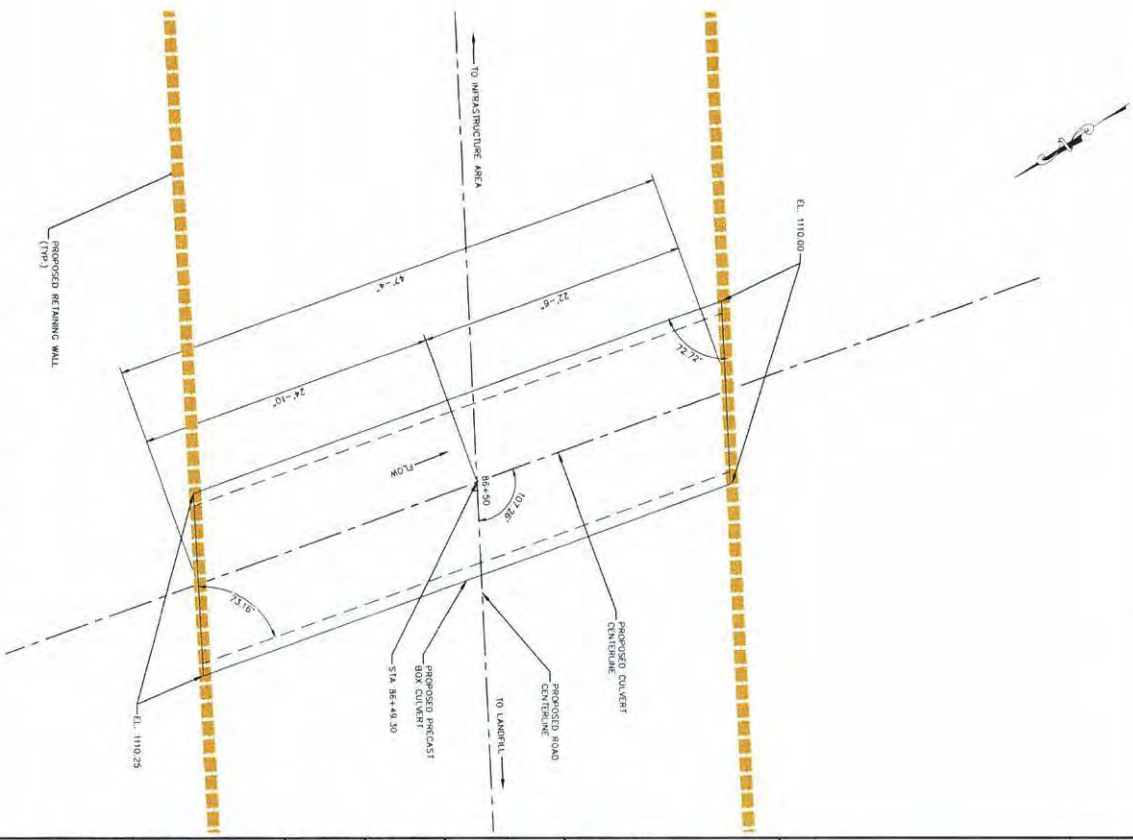
1000 North Main Street, Suite 100
Dalton, NH 03827
Tel: 603.852.1100
Fax: 603.852.1101
www.cmaengineers.com

DD-11



Roadway Sections

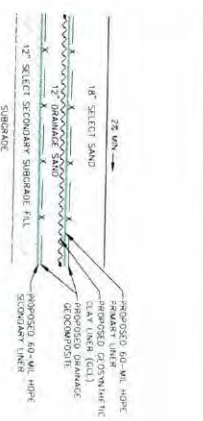
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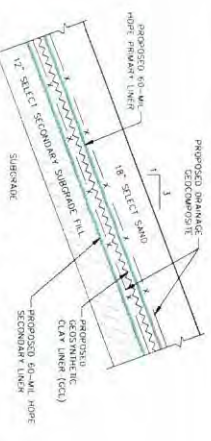
Culvert Layout Plan

Scale: 1" = 5'

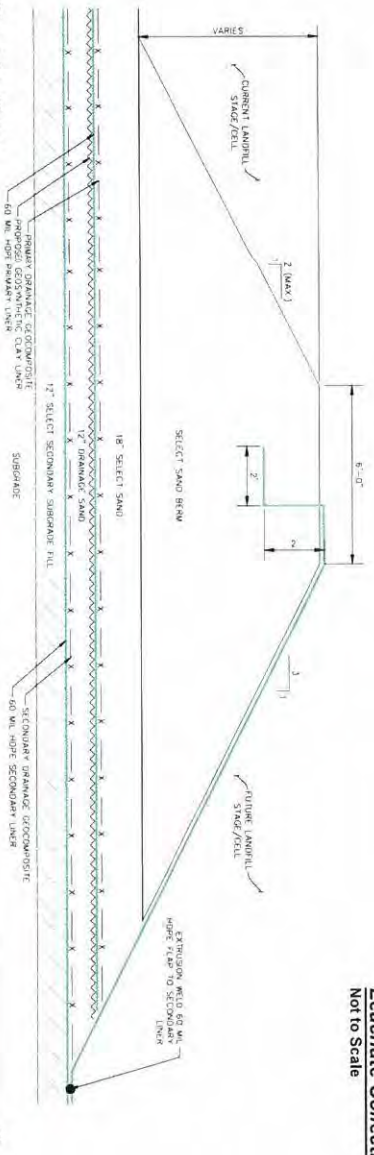
| | | | | | |
|-------------------------------|---|--|---------------------|--|---|
| GRANITE STATE DD-15 | Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | Date: October 2023 Prepared by: ATRN/JMSTF/AJS Drawn by: ATRN/JMSTF Checked by: AJS Approved by: AJS | | CMA ENGINEERS 2447 Elm Street, Suite 100, Portsmouth, NH 03801 603.431.4800 • Fax: 603.431.4801 • www.cma-engineers.com | Project No. 1101 Date: 10/20/23 Scale: 1" = 10' (Roadway Sections), 1" = 5' (Culvert Layout Plan) |
| | Roadway Sections and Culvert Layout Plan 3 | SHEET NO. 3 OF 3 | 1" = 10' 1" = 5' | 1" = 10' 1" = 5' | 1" = 10' 1" = 5' |



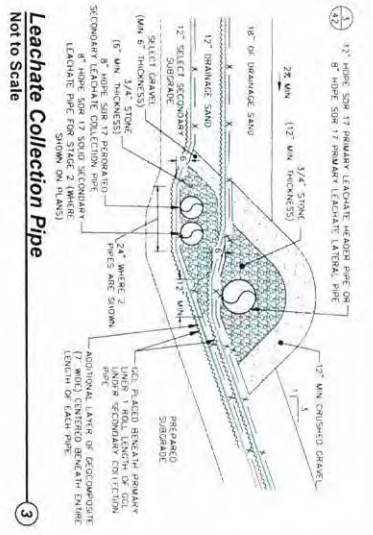
Typical Liner Section (Base Areas)
Not to Scale



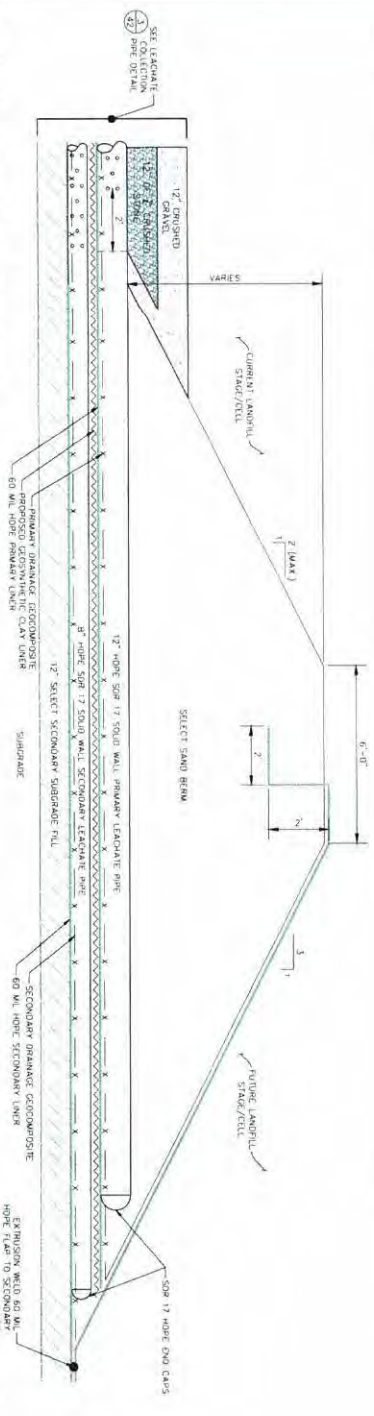
Typical Liner Section (Slope Areas)
Not to Scale



Cell Diversion Berm
Not to Scale

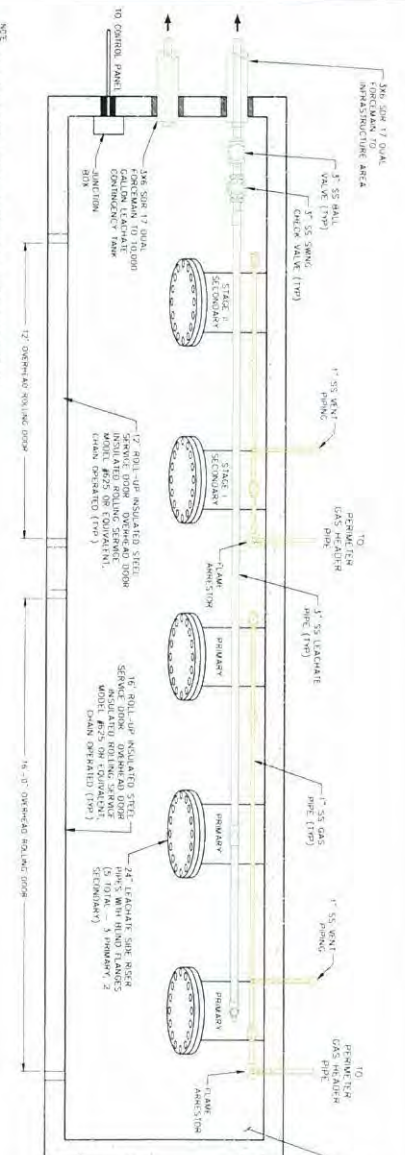


Leachate Collection Pipe
Not to Scale

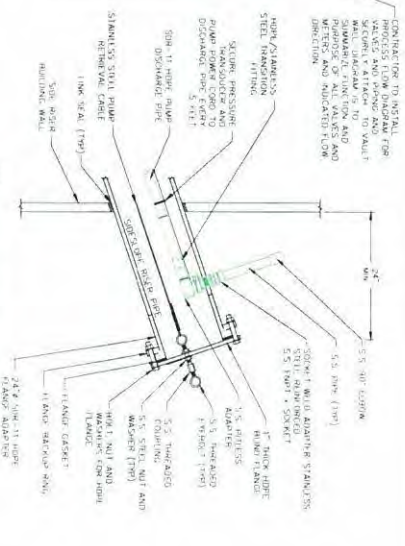


Cell Diversion Berm - Pipe Penetration
Not to Scale

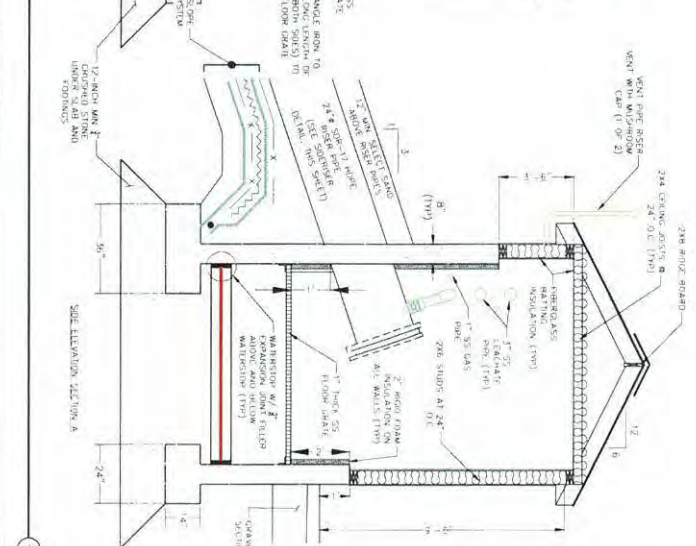
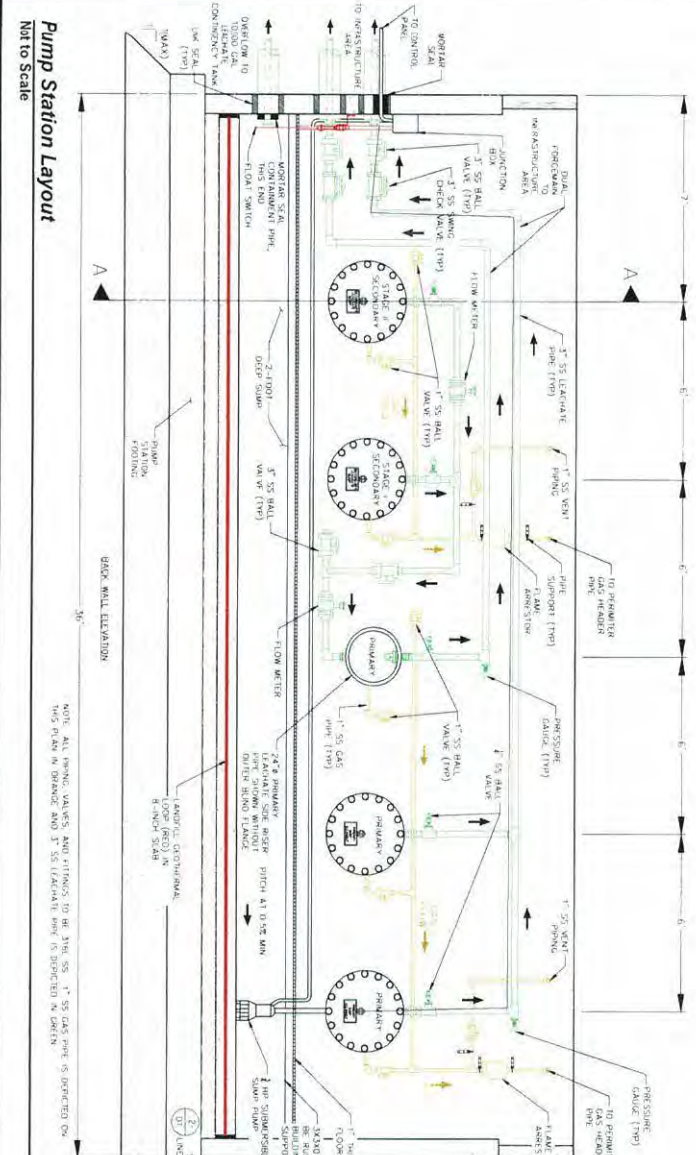
| | | | | | |
|---|--|--|--|---|--------------------------------|
| GRANITE STATE LANDFILL, LLC DALTON, NEW HAMPSHIRE PERMITTING PLAN SET Landfill Details | DATE: October 2023 PROJECT NO: 1101 DESIGNED BY: AJS | DESIGNED BY: ATR/NUM/STF/AJS DRAWN BY: ATR/NUM/STF CHECKED BY: AJS | | CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL 100-415-7300 • Manchester, NH • 20194-4211 C M A E N G I N E E R S | SHEET: D-1 TOTAL SHEETS: 10 |
| | SCALE: 1" = 10'-0" | | | | |



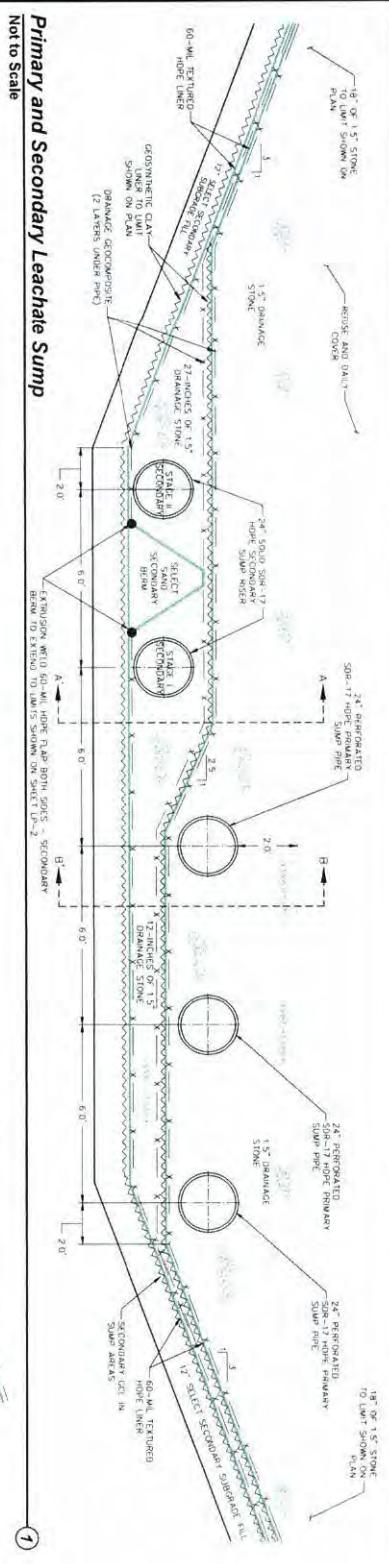
NOTE: ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES.



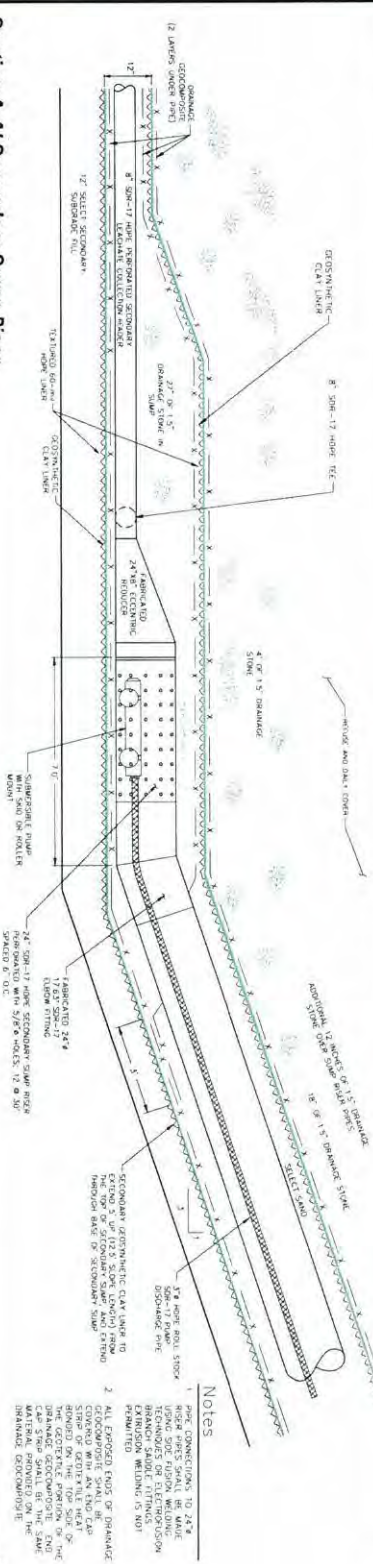
NOTE: ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES. ALL CONCRETE SHALL BE FINISHED TO ALL CONCRETE SURFACES.



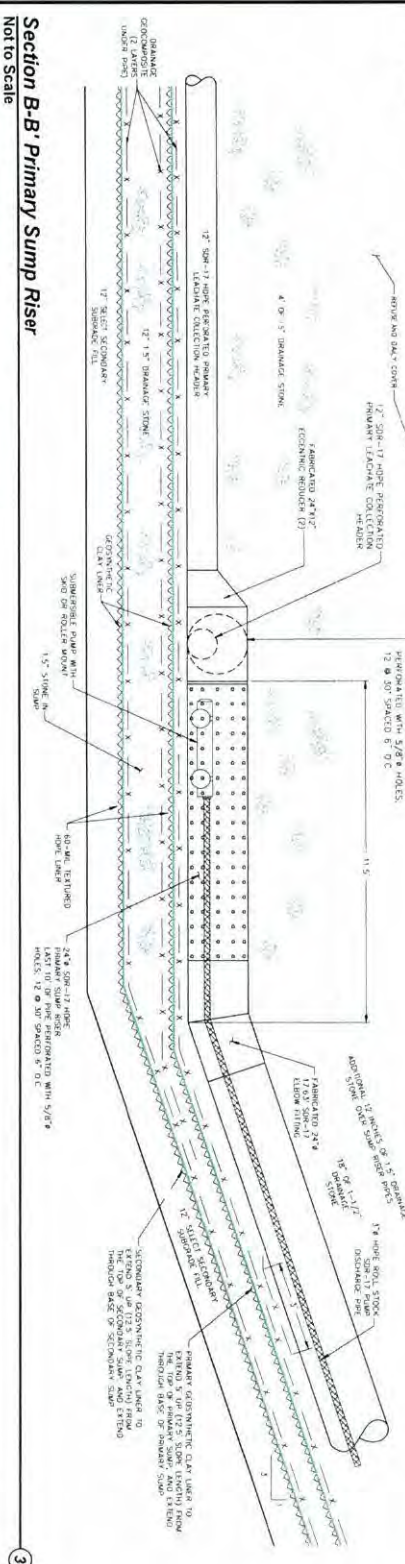
| | | | |
|--|--|---|---|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> | | <p>DATE: October 2023 PROJECT: ATRN/JMS/TFA/JS DRAWING: ATRN/JMS/TFA/JS SCALE: AS SHOWN</p> | <p>CMA ENGINEERS Civil, Environmental & Structural 1000 Main Street, Suite 100 Dalton, NH 03827 Phone: 603-785-1111 Fax: 603-785-1112</p> |
|--|--|---|---|



Primary and Secondary Leachate Sump
Not to Scale



Section A-A Secondary Sump Riser
Not to Scale



Section B-B Primary Sump Riser
Not to Scale

- Notes**
1. PIPE CONNECTIONS TO 24\"/>

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

Leachate
Details 2

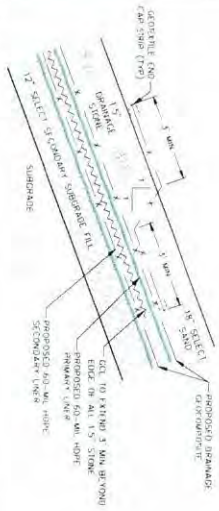
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| DATE | October 2023 | DESIGNED BY | ATRNJMSTF/AJS |
| PROJECT NO. | 1101 | DRAWN BY | ATRNJMSTF |
| CHECKED BY | AJS | APPROVED BY | AJS |



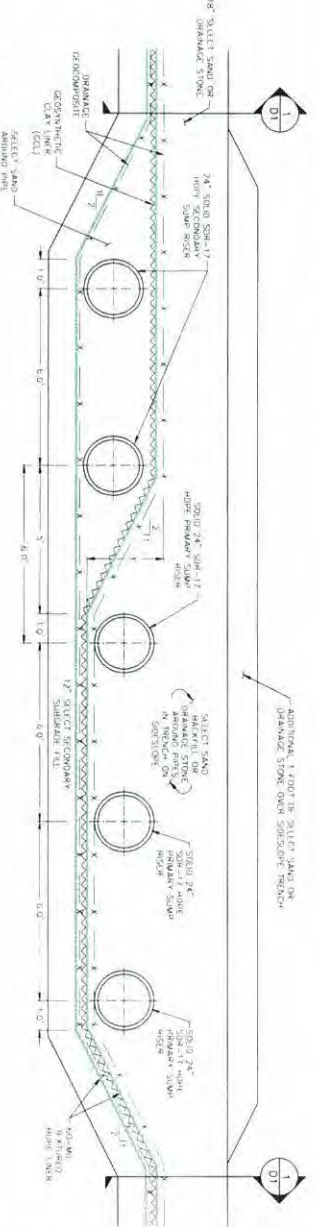
CMA ENGINEERS
Civil, Environmental & Structural

Portland, ME • Manchester, NH • Portland, ME
603-882-7000 • 603-882-7000 • 603-882-7000

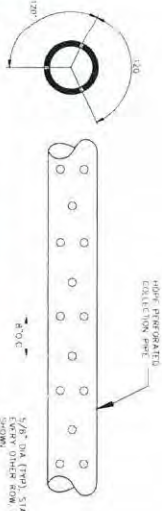
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|----------|----------|-------|----------|
| DATE | 10/23/23 | SCALE | AS SHOWN |
| REVISION | | | |



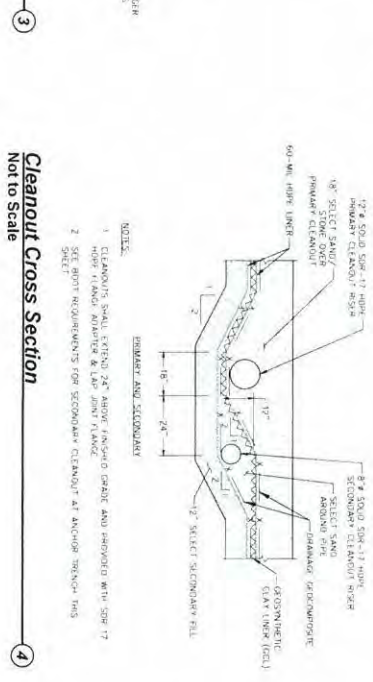
Stone/Sand Transition
Not to Scale



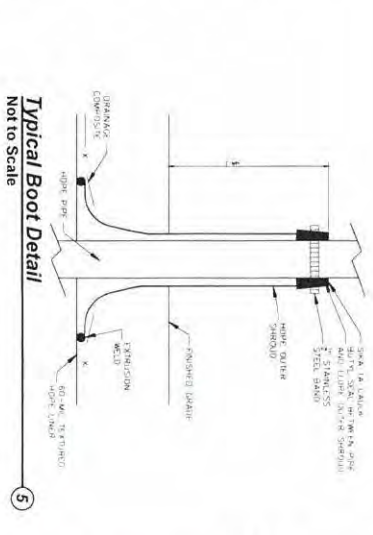
Side Slope Sump Riser Section
Not to Scale



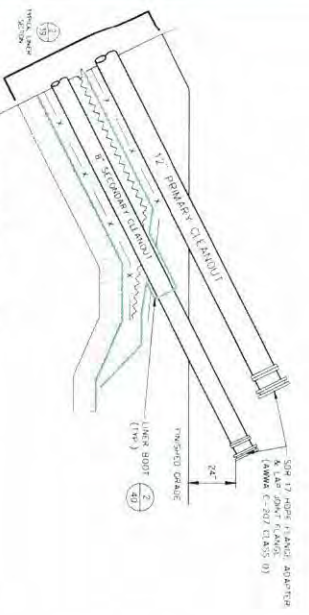
Perforated Collection Pipe
Not to Scale



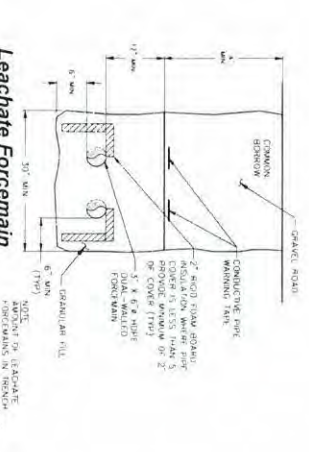
Cleanout Cross Section
Not to Scale



Typical Boot Detail
Not to Scale

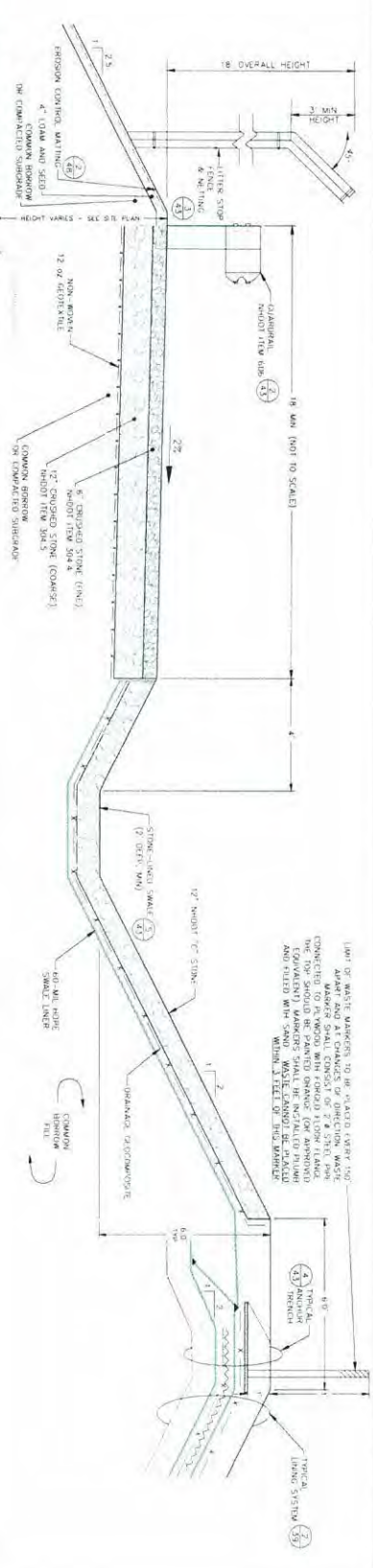


Primary & Secondary Cleanout Riser
Not to Scale

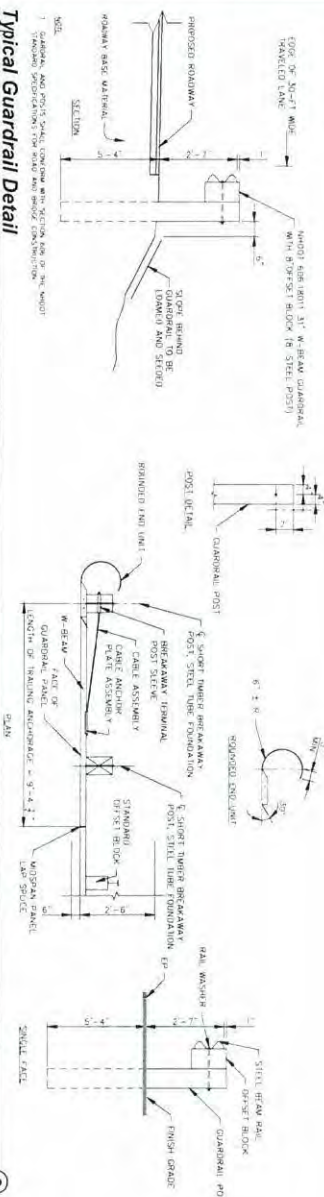


Leachate Foremain Outside Anchor Trench
Not to Scale

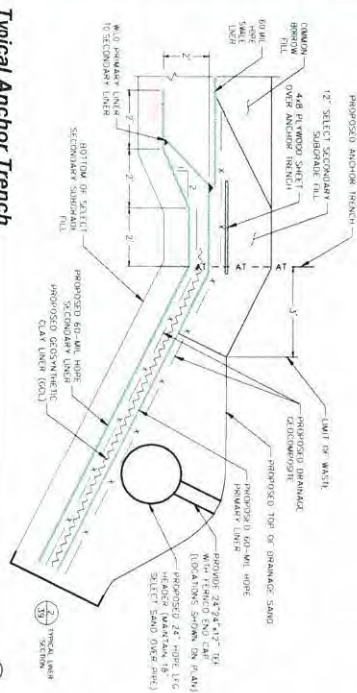
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|---|--|--|---|
| <p>DATE: 10/27/23</p> <p>PROJECT: 1101</p> <p>DESIGNER: AJS</p> | <p>DESIGNED BY: ATR/NJWS/TFA/JJS</p> <p>DRAWN BY: ATR/NJWS/TFA/JJS</p> <p>CHECKED BY: AJS</p> | | <p>CMA ENGINEERS</p> <p>ENVIRONMENTAL/CONSULTING</p> <p>1000 W. MAIN STREET, SUITE 200 • FREDERICK, NH 03053-1000</p> <p>TEL: 603-751-1343 • FAX: 603-751-1422</p> |
| | <p>PROJECT: Granite State Landfill, LLC Dalton, New Hampshire</p> <p>PERMITTING PLAN SET</p> <p>Leachate Details 3</p> | | |



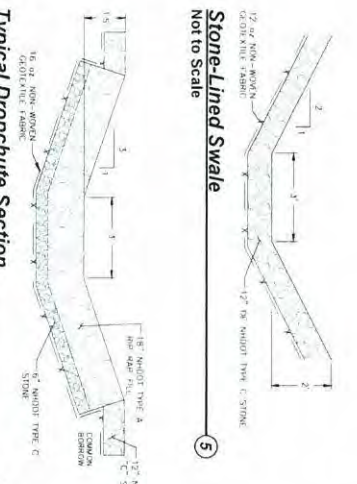
Typical Landfill Berm & Roadway
Not to Scale



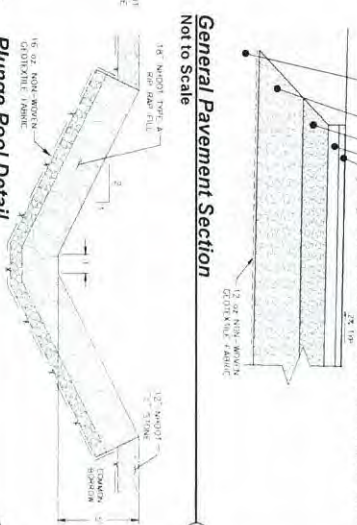
Typical Guardrail Detail
Not to Scale



Typical Anchor Trench
Not to Scale



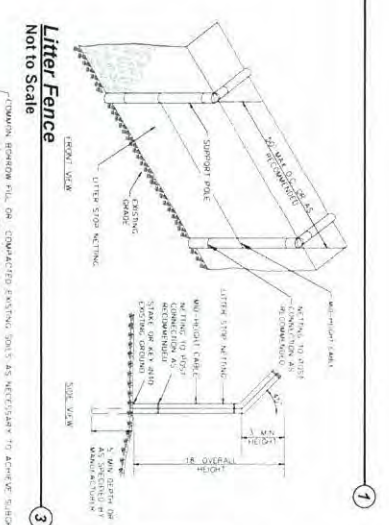
Stone-Lined Swale
Not to Scale



General Pavement Section
Not to Scale



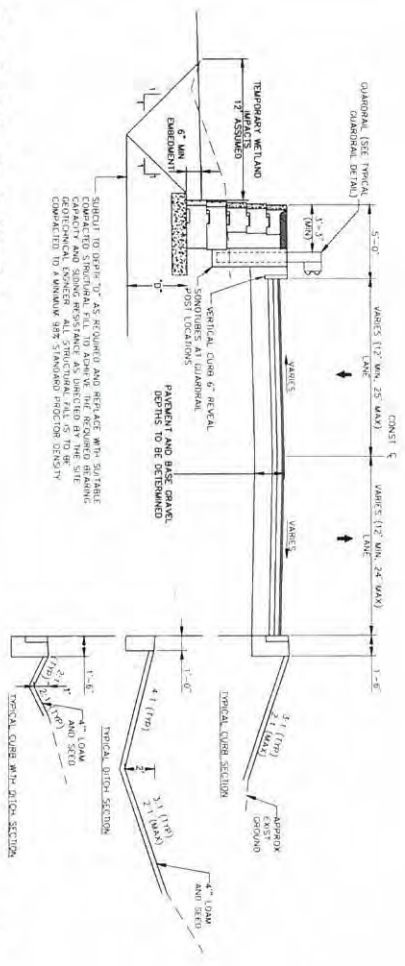
Plunge Pool Detail
Not to Scale



Litter Fence
Not to Scale

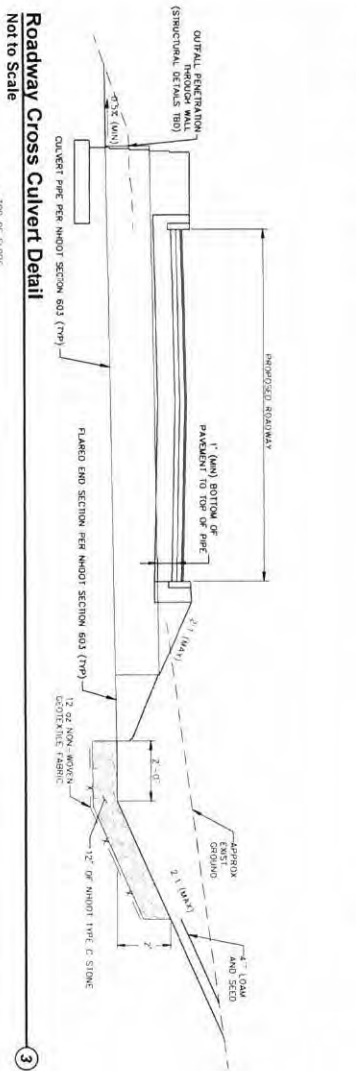
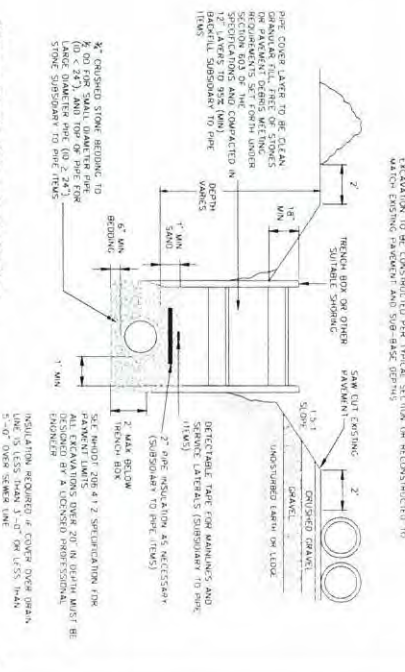
1. LITER FENCE SHALL BE INSTALLED PER THE ABOVE DETAIL AND AT CHANGES OF DIRECTION. WASTE MATTER SHALL BE REMOVED FROM THE TOP OF THE LITER FENCE AND SHOULD BE PLACED IN A CONTAINER WITHIN 3 FEET OF THE MATTER.

| | | | | | | | | |
|----------------------|---------------------|--------------------|-------------------|-------------------|--|--|---|--|
| DATE October 2023 | PROJECT NO. 1101 | DESIGNED BY AJS | CHECKED BY AJS | SCALE AS SHOWN | | CMA ENGINEERS 200 E. WASHINGTON ST., SUITE 200 DARTMOUTH, NH 03824 TEL: 603-424-1111 FAX: 603-424-1112 | GRANITE STATE LANDFILL, LLC DALTON, NEW HAMPSHIRE PERMITTING PLAN SET SITE DETAILS | SHEET NO. D-6 TOTAL SHEETS 10 |
| | | | | | | | | |

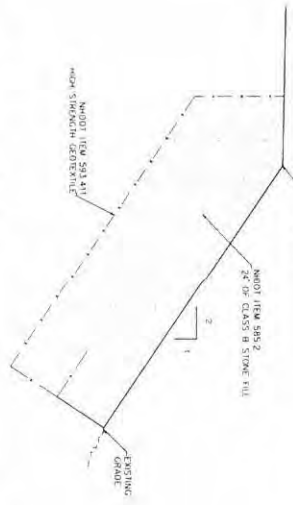


Douglas Drive Typical Section
Not to Scale

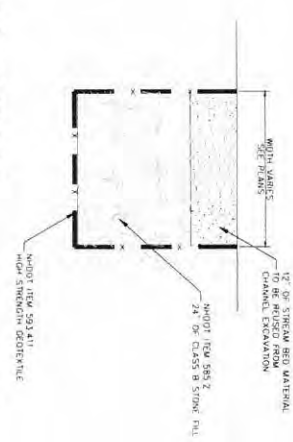
Storm Drain Pipe Installation
Not to Scale



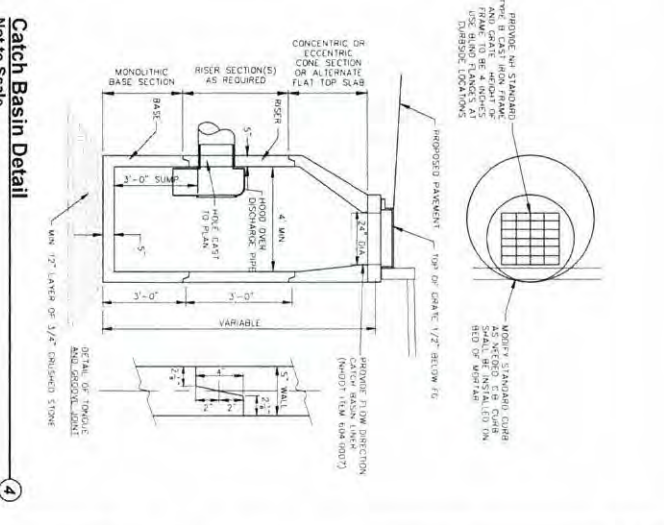
Roadway Cross Culvert Detail
Not to Scale



Slope Protection Detail
Not to Scale

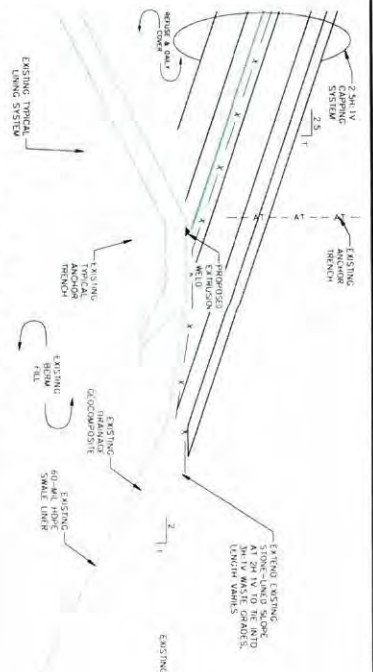


Culvert Infill Detail
Not to Scale

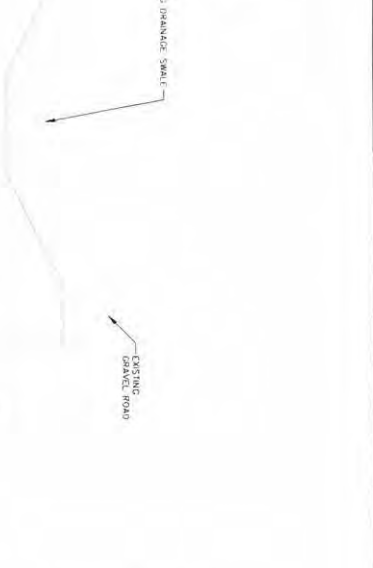


Catch Basin Detail
Not to Scale

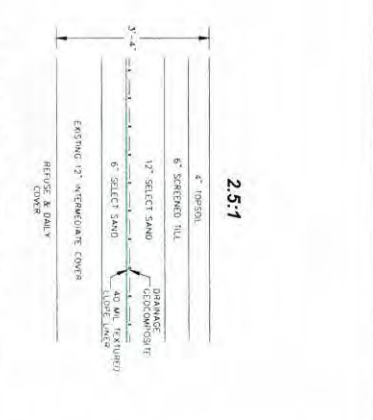
| | | | | |
|--|------------------------------|---------------------------------------|-------------|--|
| <p>Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set</p> | <p>date October 2023</p> | <p>designed by ATR/NJMSTF/AJS</p> | | <p>CMA ENGINEERS Civil/Environmental/Structural</p> |
| | <p>project no. 1101</p> | <p>drawn by ATR/NJMSTF</p> | | |
| <p>Roadway Details</p> | <p>scale</p> | <p>approved by AJS</p> | <p>DATE</p> | <p>PROJECT NO.</p> |



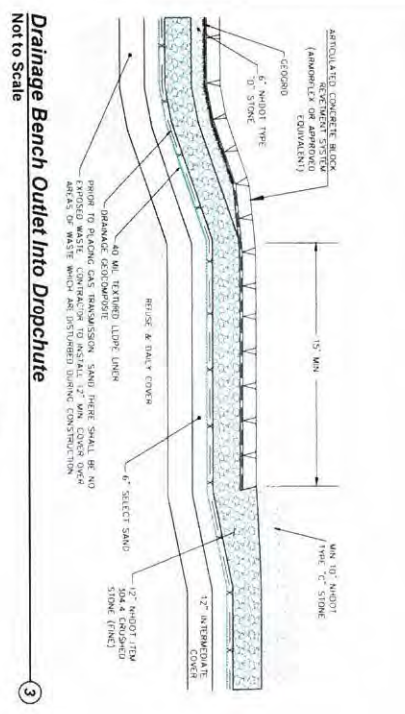
Capping System Tie-in at Anchor Trench
Not to Scale



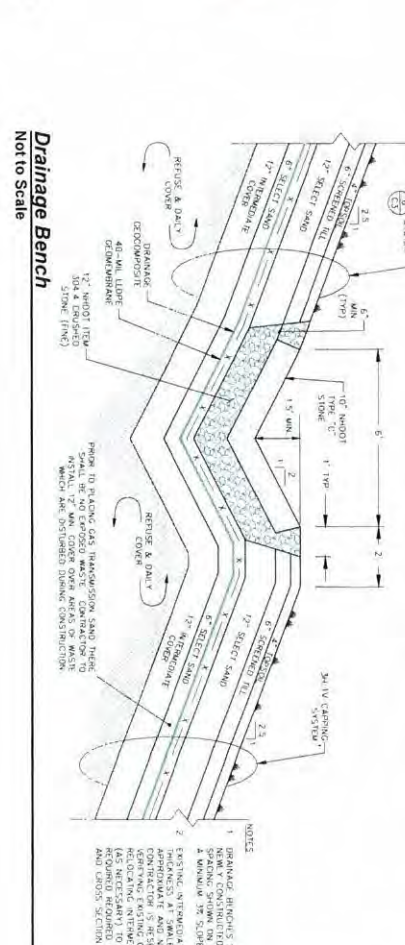
Capping System Tie-in at Stormwater Road
Not to Scale



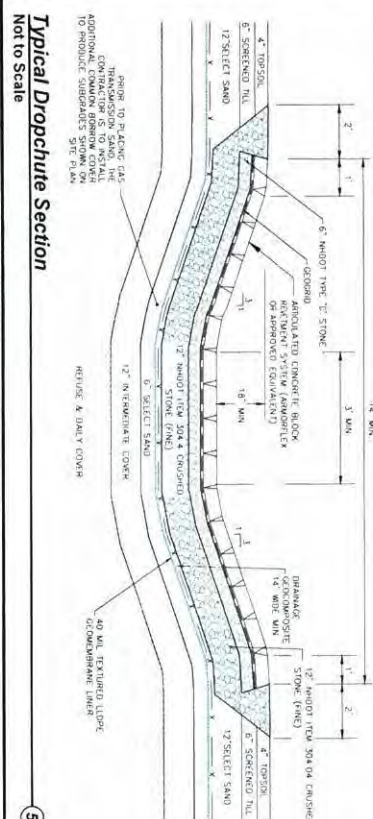
Capping System Sections
Not to Scale



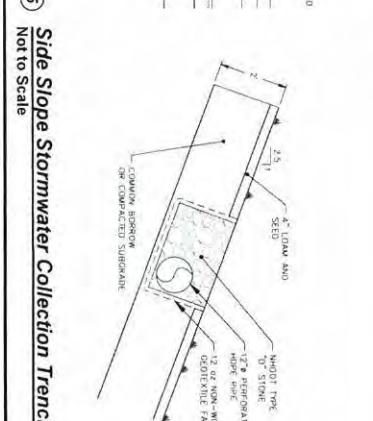
Drainage Bench Outlet into Dropchute
Not to Scale



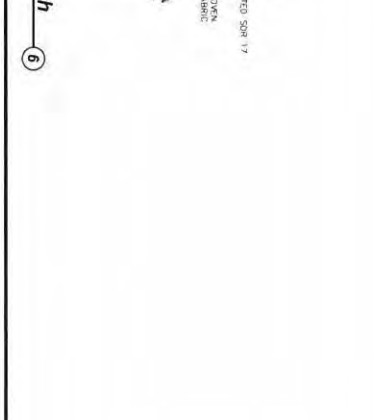
Drainage Bench
Not to Scale



Typical Dropchute Section
Not to Scale

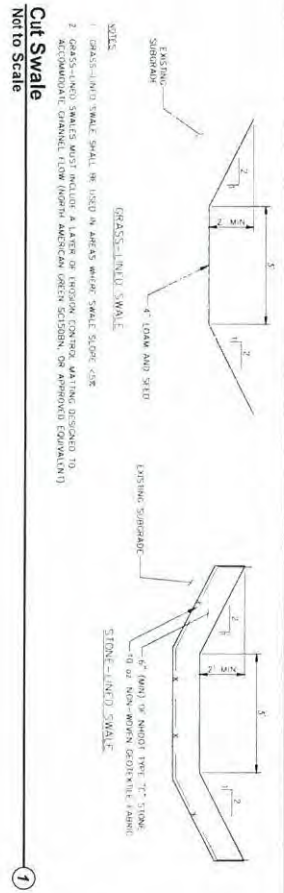


Side Slope Stormwater Collection Trench
Not to Scale

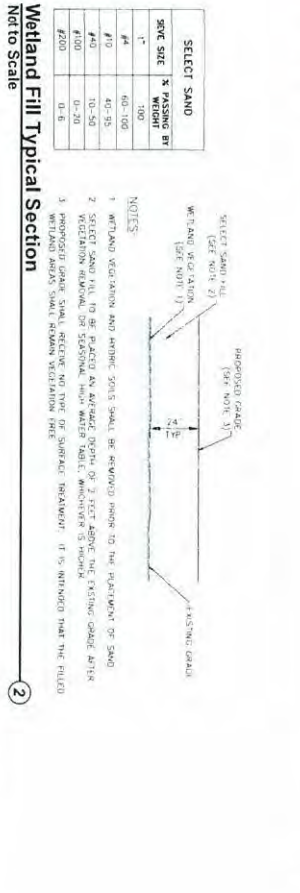


Closure Details
Not to Scale

| | | | | |
|---|----------------------|--------------------------------|-------------------|---|
| Granite State Landfill, LLC Dalton, New Hampshire Permitting Plan Set | date October 2023 | designed by ATR/NJM/STF/AJS | | CMA ENGINEERS CIVIL, ENVIRONMENTAL & STRUCTURAL 200 Park Ave. • Manchester, NH • Portland, ME 603.221.6196 • 603.621.0700 • 207.861.4221 C M A E S T R U C T U R A L |
| | project no 1101 | drawn by ATR/NJM/STF | | |
| checked by AJS | approved by AJS | title Closure Details | sheet no. D-13 | revision |



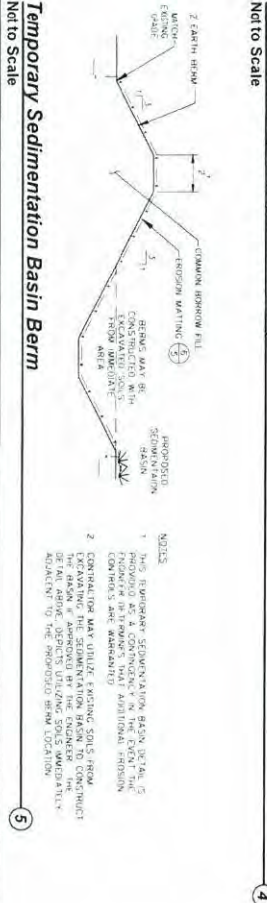
Wetland Fill Typical Section
Not to Scale



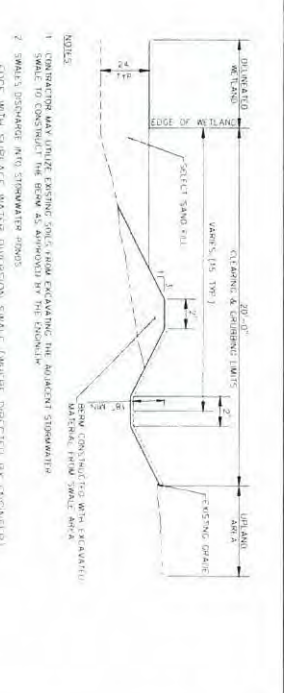
Bioretention Filter Media
Not to Scale

| SELECT SAND | % PASSING BY WEIGHT |
|-------------|---------------------|
| #10 | 100 |
| #20 | 60-100 |
| #40 | 40-95 |
| #100 | 10-90 |
| #200 | 0-20 |
| #425 | 0-5 |

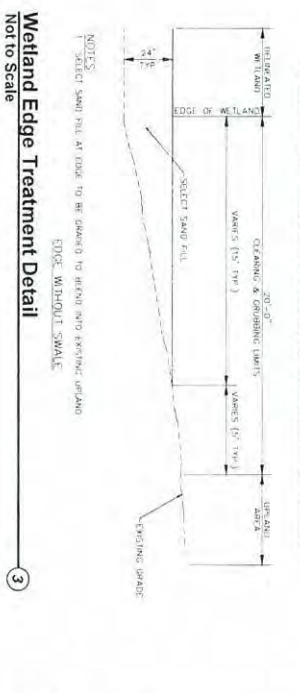
| BIORETENTION FILTER MEDIA | DEPTH OR WIDTH BY VOLUME | DEPTH OR WIDTH BY STANDARD SPEC. | DEPTH BY MICHIGAN STANDARD SPEC. |
|---------------------------|--------------------------|----------------------------------|----------------------------------|
| GRAVEL (3/4" TO 1 1/2") | 20 TO 30 | 200 | 15 TO 25 |
| COARSE SAND (20 TO 40) | 20 TO 30 | 200 | < 5 |
| FINE SAND (20 TO 40) | 20 TO 30 | 200 | < 5 |
| WETLAND VEGETATION | 12 TO 24 | 200 | < 5 |
| EXISTING GRADE | 20 TO 30 | 200 | < 5 |
| PROPOSED GRADE | 20 TO 30 | 200 | < 5 |
| EXISTING SAND | 20 TO 30 | 200 | < 5 |
| STONE-LINED SWALE | 20 TO 30 | 200 | < 5 |
| GRASS-LINED SWALE | 20 TO 30 | 200 | < 5 |



Temporary Sedimentation Basin Berm
Not to Scale



Wetland Edge Treatment Detail
Not to Scale



Stabilized Construction Entrance
Not to Scale



Wetland Edge Treatment Detail
Not to Scale