US Army Corps of Engineers®

PUBLIC NOTICE

Applicant:
Lane Gould -
Maine Bureau of General Services

Published: January 22, 2026
Expires: February 20, 2026

New England District
Permit Application No. NAE-1991-01909

TO WHOM IT MAY CONCERN: The New England District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344). The purpose of this public notice is to solicit comments from the public regarding the work described below:

APPLICANT: Lane Gould -
Maine Bureau of General Services
77 State House
Augusta, Maine 04333

AGENT: Brian Pierce
Sevee & Maher Engineers, Inc.
4 Blanchard Road
Cumberland, Maine 04021

WATERWAY AND LOCATION: The project would affect waters of the United States (WOTUS) associated with Judkins Brook and Pushaw Stream which are tributaries of the Penobscot River. The project/review area is located at 2828 Bennoch Road in Alton, Maine, Penobscot County (44.9816827, -68.7249775).

EXISTING CONDITIONS: The 780-acre parcel, owned by the State of Maine, is currently permitted for a 122-acre landfill. The site was originally permitted to fill 8.84-acres of wetlands in 1993 for the construction of a 68-acre landfill with a disposal capacity of 3.3 million cubic yards (MCY). In 2017, the site was permitted to fill another 2.04-acres of wetlands and clear 0.10 forested wetlands for the 54-acre expansion of Juniper Ridge landfill with the disposal capacity of 9.35 MCY.

PROJECT PURPOSE:

Basic: Solid Waste Disposal

Overall: We have preliminarily determined the overall project purpose is to provide at least 11.9 MCY of additional solid waste disposal capacity for the State of Maine by 2028.

PROPOSED WORK: The applicant requests authorization to fill 163,362 square feet (FT.) (3.75-acres) of emergent and forested wetlands for the expansion of Juniper Ridge Landfill to continue to accept solid waste located at 2828 Bennoch Road in Alton, Maine. The applicant proposes to expand the existing landfill, which would involve five new cells to be constructed overtime based on need (approximately one cell every two years).

AVOIDANCE AND MINIMIZATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment. The project has been designed to avoid and minimize impacts to WOTUS through the use of existing site infrastructure, such as leachate storage tank, landfill gas treatment, Renewable Natural Gas (RNG) plant, and landfill gas flares. Additional site access roads and stormwater management ponds are proposed in uplands to avoid impacts to WOTUS to the maximum extent possible. However, the footprint of the landfill could not completely avoid wetlands with the siting and size requirements as many of the physical characteristics that make a site suitable for a landfill also tend to make suitable for wetlands. To avoid impacts, there are procedures in places to reduce the overall volume of waste before coming to the landfill to minimize the footprint of the proposed landfill, such as Maine's solid waste management hierarchy of reuse, recycling, composting, processing, and incineration to the maximum extent practicable. Any waste at the landfill is then further minimized to attempt to minimize the overall volume of waste; for example, construction debris fines are used for daily cover.

COMPENSATORY MITIGATION: The applicant offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment: Federal mitigation requirements are expected to be met through the Maine In-lieu fee (ILF) program.

CULTURAL RESOURCES:
The Corps evaluated the undertaking pursuant to Section 106 of the National Historic Preservation Act (NHPA) utilizing its existing program-specific regulations and procedures along with 36 CFR Part 800. The Corps' program-specific procedures include 33 CFR 325, Appendix C, and revised interim guidance issued in 2005 and 2007, respectively. The District Engineer consulted district files and records and the latest published version of the National Register of Historic Places and initially determines that:

No historic properties (i.e., properties listed in or eligible for inclusion in the National Register of Historic Places) are present within the Corps' permit area; therefore, there will be no historic properties affected. The Corps subsequently requests concurrence from the SHPO and/or THPO.

No resources listed in or eligible for inclusion in the National Register of Historic Places are known to be present in the vicinity of the proposed work; however, the permit area has not been formally surveyed for the presence of cultural resources. Additional work may be necessary to identify and assess any cultural resources that may be present.

This notice serves as a request to SHPO, THPO, and/or other interested parties to provide any information they may have regarding historic properties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

ENDANGERED SPECIES: The Corps has performed an initial review of the application, the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur in the vicinity of the proposed project. Based on this initial review, the Corps has made a preliminary determination that the proposed project may affect species and critical habitat listed below. No other ESA-listed species or critical habitat will be affected by the proposed action.

Species Common Name and/or Critical Habitat Name	Scientific Name	Federal Status
Northern long-eared bat	*Myotis septentrionalis*	Endangered
Atlantic Salmon and its critical habitat	*Salmo salar*	Endangered
Tricolored Bat	*Perimyotis subflavus*	Proposed Endangered
Monarch butterfly	*Danaus plexippus*	Proposed Threatened

Pursuant to Section 7 ESA, any required consultation with the Service will be conducted in accordance with 50 CFR part 402.

This notice serves as a request to the U.S. Fish and Wildlife Service for any additional information on whether any listed or proposed to be listed endangered or threatened species or critical habitat may be present in the area which would be affected by the proposed activity.

ESSENTIAL FISH HABITAT: Pursuant to the Magnuson-Stevens Fishery Conservation and Management Act 1996, the Corps reviewed the project area, examined information provided by the applicant, and consulted available species information. The existing landfill is approximately 3.5 miles from the Penobscot River which is Atlantic Salmon essential fish habitat.

The Corps will initiate Essential Fish Habitat (EFH) consultation separately from this public notice if required. A separate EFH consultation package will be sent to the National Marine Fisheries Service (NMFS) if required. The Corps will not make a permit decision until the consultation process is complete if required.

NAVIGATION: The proposed structure or activity is not located in the vicinity of a federal navigation channel.

SECTION 408: The applicant will not require permission under Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) because the activity, in whole or in part, would not alter, occupy, or use a Corps Civil Works project.

WATER QUALITY CERTIFICATION: Water Quality Certification will be required from the Maine Department of Environmental Protection.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the Corps jurisdiction has not been verified by Corps personnel.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to 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 cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

COMMENTS: The Corps 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 to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to 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 (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New England District will receive written comments on the proposed work, as outlined above, until February 20, 2026. Comments should be submitted electronically via the Regulatory Request System (RRS) at https://rrs.usace.army.mil/rrs or to Amanda Sayles at amanda.l.sayles@usace.army.mil. Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, New England District, Attention: cenae-r-me@usace.army.mil. Please refer to the permit application number (NAE-1991-01909) in your comments.

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 public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

NOTE: THIS IS NOT AN AUTHORIZATION TO DO WORK.

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.

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS, LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

TITLE	DWG NO
COVER SHEET	
SYMBOLS & ABBREVIATIONS	C-100
ANTICIPATED CONDITIONS PLAN	C-101
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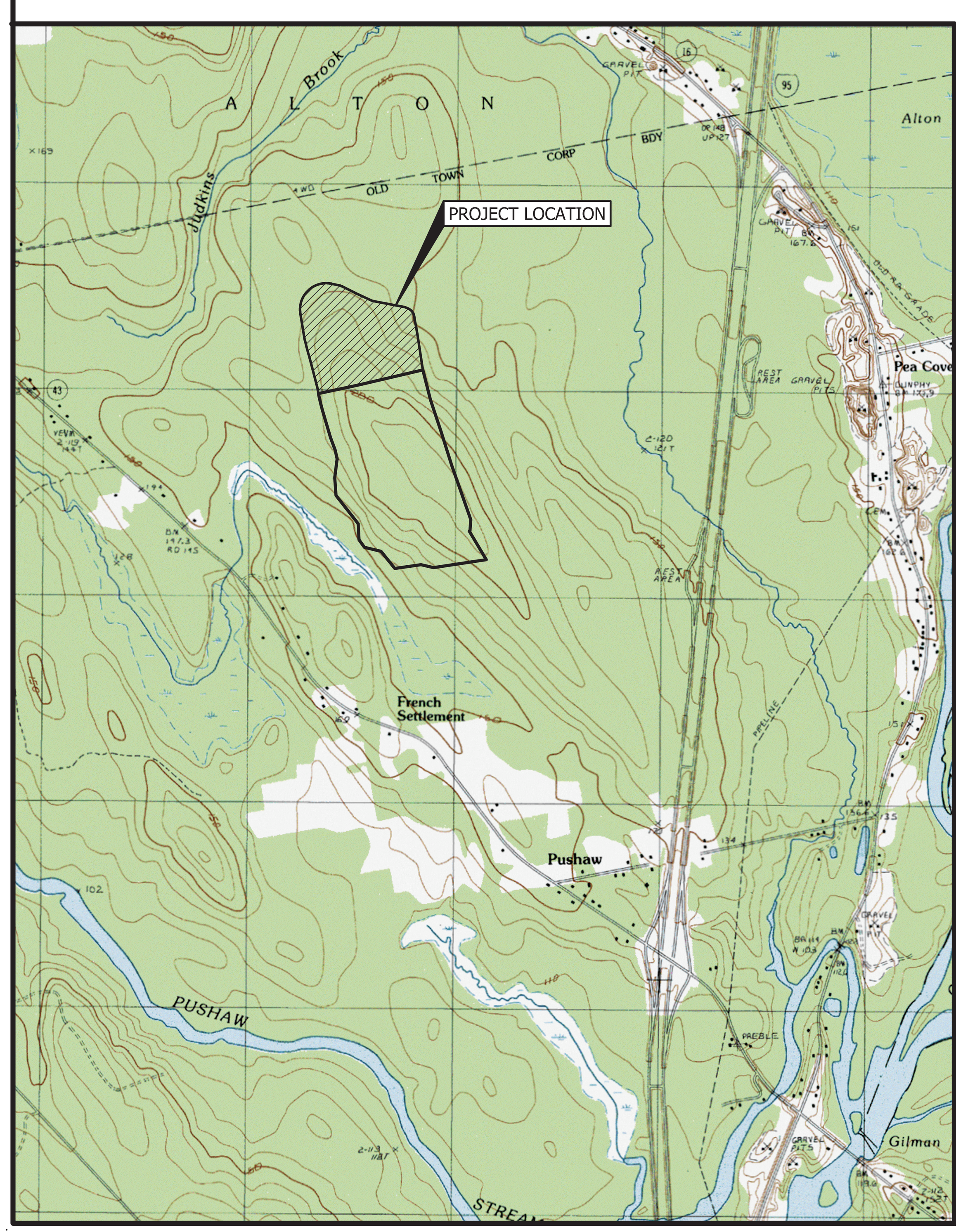
LOCATION MAP



SME
SEVEE & MAHER ENGINEERS
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com

STATE OF MAINE
BRIAN D. PIERCE
9601
LICENSED
PROFESSIONAL ENGINEER
11/11/2025

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		NORTH ARROW (GRID)
DATE		NORTH ARROW (MAGNETIC)
25	25	CONTOUR LINES
	INV 25.56	SPOT ELEVATION (INVERT ELEVATION)
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT
		PROPERTY LINE OR RIGHT-OF-WAY
		DEED RESTRICTION BOUNDARY
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE
1	20	CELL DESIGNATION
		BOUNDARY LINE (State, County, Municipality)
		SURVEY MONUMENT
		SURVEY CONTROL
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE
		WETLAND DELINEATED
		WETLAND PHOTO INTERPRETED
		WETLAND TO BE IMPACTED
		WETLAND OF SPECIAL SIGNIFICANCE (WOSS)
		WOSS SETBACK (25-FOOT)
		WOSS SETBACK (75-FOOT)
		VERNAL POOL
		VERNAL POOL SETBACK
		NRPA STREAM
		BEDROCK OUTCROP
		SAMPLE SUMP
		SLOPE INCLINOMETER
		VIBRATING WIRE SETTLEMENT CELL
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT
		VERTICAL DISPLACEMENT MONUMENT

EXISTING	PROPOSED	DESCRIPTION
		DRAINAGE COURSE (WITH DIRECTION)
		EDGE OF WATER
		STREAM
		WATER ELEVATION (GROUND OR SURFACE)
		FENCE LINE (STOCKADE)
x	x	FENCE LINE (METAL/CHAIN LINK)
		STONE WALL
		RETAINING WALL
		GUARD RAIL
		BUILDING AND STRUCTURES
	2 / 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
TOP OF SLOPE 2:1	TOP OF SLOPE 2:1	SLOPES (WITH SLOPE RATIO)
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		CONCRETE
B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
TP-12	TP-12	TEST PIT AND NUMBER
SW-12	SW-12	SURFACE WATER SAMPLE LOCATION
		GAS EXTRACTION WELL
C	C	GAS CONDENSATE TRAP
KO	KO	LFG KNOCKOUT
		GAS WELL HEAD
		GAS VENT CAPPED
		CLEANOUT STRUCTURE
		MANHOLE
		CATCH BASIN
		CULVERT
		RIPRAP
		WATER OR GAS VALVE
		HYDRANT
		WELL (MAROOKA SUPPLY WELL)
		AIR RELEASE VALVE
	E	ELECTRICAL MANHOLE (EMH)
		UTILITY POLE
		LIGHT POLE

EXISTING	PROPOSED	DESCRIPTION
G	G	UNDERGROUND GAS MAIN
UCC	UCC	UNDERGROUND COMMUNICATIONS LINE
UGE	UGE	UNDERGROUND ELECTRICAL LINE
OHE	OHE	OVERHEAD ELECTRICAL LINE
OT	OT	OVERHEAD TELEPHONE LINE
SS	SS	SANITARY SEWER
FM	FM	FORCE MAIN
W	W	WATER MAIN
SD	SD	STORM DRAIN
UD	UD	UNDERDRAIN
LFG	LFG	LANDFILL GAS
LT	LT	LEACHATE TRANSPORT
LC	LC	LEACHATE COLLECTION
LD	LD	LEAK DETECTION
GC	GC	GAS COLLECTION
GT	GT	GAS TRANSPORT
		REDUCER
		MECHANICAL CAP OR PLUG
		COUPLING
		BEND
		TEE
		PIPE TO BE ABANDONED
		RISER PIPE & INLET GRATE
		STORM GRATE
		DRAINAGE INLET STRUCTURE
		UNDERDRAIN SUMP
	LF	LITTER FENCE
	SF	SILTATION FENCE
	LOW	LIMIT OF WORK LINE
	CLL	CLEARING LIMIT LINE
		100-YEAR FLOODPLAIN
		WETLAND
		WETLAND OF SPECIAL SIGNIFICANCE (WOSS)

GENERAL NOTES

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC., NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLIGSA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC, CUMBERLAND, MAINE.

   SITE CONTROL POINTS INFORMATION:

POINT #	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
1000	478242.06	925376.38	167.99	WET WELL-PLUG
1001	477837.90	925672.66	160.12	MH13-PK
1002	479259.38	925158.27	185.65	LEDGE-PK
1003	479589.83	925157.64	205.01	MH30-PK
1004	479820.27	925097.15	205.01	MH33-PK
1006	478246.50	925365.28	167.62	VALVE PIT-PK
1007	477451.45	926203.11	165.62	MH14-PK
1010	480071.86	926904.09	206.29	MH26-PK
1011	479669.08	927037.61	215.20	MH25-PK
1012	478065.49	927548.96	216.94	MH22-PK
1013	477534.13	927485.35	203.30	MH19-PK
1014	480638.39	926747.66	185.91	MH27-PK

2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES INCLUDING ELECTRICAL AND PIPING BASED ON FIELD SURVEY DURING CONSTRUCTION OF CELLS 1 THROUGH 16, FORMER LEACHATE POND AND LANDFILL GAS HEADER AND FLARE RE-LOCATIONS.

3. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, AND 2015, AND BRI ENVIRONMENTAL IN 2024.

4. GRADES SHOWN WITHIN THE PERMITTED SOLID WASTE BOUNDARY REPRESENT ANTICIPATED GRADING AT THE BEGINNING OF PHASE II EXPANSION (CELL 18) CONSTRUCTION.

5. LIMIT OF INTERMEDIATE GEOMEMBRANE COVER AND FINAL COVER SHOWN REPRESENTS ANTICIPATED SITE CONDITIONS AT THE BEGINNING OF PHASE II EXPANSION (CELL 18) CONSTRUCTION.

TYPICAL ABBREVIATIONS:

ACCMP ASPHALT COATED CMP
ACP ASBESTOS CEMENT PIPE
AC ACRE
AGG AGGREGATE
ALUM ALUMINUM
APPD APPROVED
APPROX APPROXIMATE
ARMH AIR RELEASE MANHOLE
ASB ASBESTOS
ASP ASPHALT
AUTO AUTOMATIC
AUX AUXILIARY
AVE AVENUE
AZ AZIMUTH

BCCMP BITUMINOUS COATED CMP
BM BENCH MARK
BIT BITUMINOUS
BLDG BUILDING
BOT BOTTOM
BRG BEARING
BV BALL VALVE

CB CATCH BASIN
CEN CENTER
CEM LIN CEMENT LINED
CMP CORRUGATED METAL PIPE
CO CLEAN OUT
CF CUBIC FEET
CFS CUBIC FEET PER SECOND
CI CAST IRON
CL CLASS
CONC CONCRETE
CONST CONSTRUCTION
CONTR CONTRACTOR
CS CURB STOP
CTR CENTER
CU COPPER
CY CUBIC YARD

D DEGREE OF CURVE
DBL DOUBLE
DEG OR ° DEGREE
DEPT DEPARTMENT
DI DUCTILE IRON
DIA DIAMETER
DIM DIMENSION
DIST DISTANCE
DN DOWN
DR DRAIN
DWG DRAWING

EA EACH
EG EXISTING GROUND OR GRADE
ELEC ELECTRIC
EL ELEVATION
ELB ELBOW
EOP EDGE OF PAVEMENT
EQUIP EQUIPMENT
EST ESTIMATED
EXC EXCAVATE
EXIST EXISTING

FI FIELD INLET
FG FINISH GRADE
FBRGL FIBERGLASS
FDN FOUNDATION
FLEX FLEXIBLE
FLG FLANGE
FLR FLOOR
FPS FEET PER SECOND
FT OR ' FEET
FTG FOOTING

GA GAUGE
GAL GALLON
GALV GALVANIZED
GPD GALLONS PER DAY
GPM GALLONS PER MINUTE

HDPE HIGH DENSITY POLYETHYLENE
HORIZ HORIZONTAL
HP HORSEPOWER
HYD HYDRANT

ID INSIDE DIAMETER
IN OR " INCHES
INV INVERT
INV EL INVERT ELEVATION

LB POUND
LC LEACHATE COLLECTION
LD LEAK DETECTION
LF LINEAR FEET
LOC LOCATION
LOW LIMIT OF WORK
LT LEACHATE TRANSPORT

MH MANHOLE
MJ MECHANICAL JOINT
MATL MATERIAL
MAX MAXIMUM
MFR MANUFACTURE
MIN MINIMUM
MISC MISCELLANEOUS
MON MONUMENT

NITC NOT IN THIS CONTRACT
NTS NOT TO SCALE
N/F NOW OR FORMERLY
NO OR # NUMBER

OC ON CENTER
OD OUTSIDE DIAMETER

PC POINT OF CURVE
PD PERIMETER DRAIN
PI POINT OF INTERSECTION
PIV POST INDICATOR VALVE
PT POINT OF TANGENT
PERF PERFORATED
PP POWER POLE
PSI POUNDS PER SQUARE INCH
PVC POLYVINYL CHLORIDE
PVMT PAVEMENT

QTY QUANTITY

RCP REINFORCED CONCRETE PIPE
ROW RIGHT OF WAY
RAD RADIUS
REQD REQUIRED
RT RIGHT
RTE ROUTE

S SLOPE
SCH SCHEDULE
SF SQUARE FEET
SFC SLIPFORM CONCRETE CURB
SHT SHEET
SMH SANITARY MANHOLE
ST STREET
STA STATION
SY SQUARE YARD

TAN TANGENT
TDH TOTAL DYNAMIC HEAD
TEMP TEMPORARY
TYP TYPICAL

UD UNDERDRAIN

V VOLTS
VA TEE VALVE ANCHORING TEE
VERT VERTICAL
VGC VERTICAL GRANITE CURB

WG WATER GATE
W/ WITH
W/O WITHOUT

YD YARD

VIEW MARKERS & IDENTIFICATION

SECTION TITLE AND NO.
ACCESS ROAD 3
C-100
DRAWING WHERE SECTION APPEARS

DETAIL TITLE
MANHOLE
SEE DWG C-300
DRAWING WHERE DETAIL APPEARS

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE
BRIAN D. PIERCE
9609
LICENSED
PROFESSIONAL ENGINEER
11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SYMBOLS & ABBREVIATIONS

SME
SEVEE & MAHER ENGINEERS
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com

DESIGN BY:	DPW/NMT
DRAWN BY:	SJM
DATE:	11/2025
CHECKED BY:	BDP
LMN:	NONE
CTB:	SME-STD.CTB

JOB NO. 240101 DWG FILE SYMSHT

C-100

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. GRADES SHOWN WITHIN THE PERMITTED SOLID WASTE BOUNDARY REPRESENT ANTICIPATED GRADES AT THE BEGINNING OF PHASE II EXPANSION (CELL 18) CONSTRUCTION.
5. SPECIAL FLOOD HAZARD ZONE A IS 100-YEAR FLOOD ZONE WITHOUT BASE FLOOD ELEVATION (BFE) PER MAP PANEL 23019C1926D, EFFECTIVE DATE 7/19/2023.

SITE CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
1000	478242.06	925376.38	167.99	WET WELL-PLUG
1001	477837.90	925672.66	160.12	MH13-PK
1002	479259.38	925158.27	185.65	LEDGE-PK
1003	479589.83	925157.64	205.01	MH30-PK
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1014	480638.39	926747.66	185.91	MH27-PK

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE
BRIAN D. PIERCE
9600
LICENSED PROFESSIONAL ENGINEER
11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

ANTICIPATED CONDITIONS PLAN

SME
SEVEE & MAHER ENGINEERS
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

DESIGN BY:	DPW/NMT
DRAWN BY:	SJM
DATE:	11/2025
CHECKED BY:	BDP
LMN:	EXCN
CTB:	SME-STD.CTB
JOB NO.	240101.00
DWG FILE	BASE
	C-101

EXISTING SCALE HOUSE INFRASTRUCTURE AREA
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
BEDROCK OUTCROP (TYP)
SITE CONTROL POINT (TYP) SEE TABLE THIS DWG AND SEE NOTE 1 ON DWG C-100
PROPERTY LINE (TYP)
PROPOSED WOOD STORAGE LOT
SUBSURFACE WASTEWATER DISPOSAL FIELD
APPROXIMATE LOCATION OF PROPOSED PFAS TREATMENT PLANT
RNG TREATMENT FACILITY POND
LFG TREATMENT FACILITY
WATER SUPPLY WELL
RENEWABLE NATURAL GAS (RNG) FACILITY
LFG FLARE LOCATION
LEACHATE STORAGE TANK PUMP STATION
LEACHATE STORAGE TANK 1
PROPOSED LEACHATE STORAGE TANK 2
PROPOSED LEACHATE STORAGE TANK 3
24" LFG HEADER (TYP)
LFG KNOCKOUT STRUCTURE (TYP)
UTILITY MANHOLE (TYP)
DETENTION POND 6
CELL 8 PUMP STATION
EXISTING CELLS LINER LIMIT (TYP)
(2) 24" HDPE CULVERTS
PERMANENT LANDFILL ACCESS ROAD
8"x12" LEACHATE FORCEMAIN
PROPERTY LINE (TYP)
ELECTRICAL MANHOLE (TYP)
DETENTION POND 2
UNDERGROUND ELECTRIC (TYP)
LFG KNOCKOUT STRUCTURE AND VALVES
CELL 5 PUMP STATION
CELL 4 PUMP STATION
DETENTION POND 1A
8" GRAVITY SEWER IS ABANDONED
WATER LOADING RACK
DETENTION POND 1
CELL 15 PUMP STATION
RIPRAP DITCH (TYP)
EXISTING 24" DIA LANDFILL GAS PIPE
EXISTING FORCEMAIN VAULT (TYP)
CELL 16 PUMP STATION
EXISTING EMH (TYP)
REMOVE AND RELOCATE EXISTING FENCE
PROPOSED FENCE (TYP)
DETENTION POND 12
CELL 17 BASE GRADES (SEE NOTE 5)
25-FOOT STREAM SETBACK
OW-617A,B
CELL 19 PUMP STATION
P-04-12A,B
DEED RESTRICTION (TYP)
OW-08-04A,B
20'-WIDE GRAVEL ACCESS ROAD (TYP)
FENCE (TYP)
CELL 20 PUMP STATION
DETENTION POND 13
OW-616A,B
100-YEAR FLOOD ZONE SPECIAL FLOOD HAZARD AREA (TYP) SEE NOTE 6
OW-615A,B
PROPOSED GUARDRAIL (TYP)
REMOVE AND RELOCATE EXISTING FENCE
DETENTION POND 14
OW-614A,B
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
LIMIT OF BRI WETLANDS DELINEATION (TYP) SEE NOTE 2
VERNAL POOL (TYP)
GRAVEL UTILITY ACCESS ROADS (TYP)
OW-613A,B
OW-612A,B
LFG KNOCKOUT STRUCTURE (TYP)
END OF EXISTING LEACHATE FORCE MAIN
DETENTION POND 11R
PROPOSED SOLID WASTE LIMIT (TYP)
26'-WIDE PAVED ACCESS ROAD (TYP)
EXISTING OVERHEAD ELECTRIC LINE (TYP)
PERMITTED TILL BORROW PIT
PERMITTED WOOD WASTE HANDLING AREA
DETENTION POND 9
WOOD STORAGE FACILITY 2 ACRE
MAINTENANCE BUILDINGS
DETENTION POND 10
1 ACRE
CELL 12 PUMP STATION
PRIMARY ACCESS ROAD (TYP)
FORCE MAIN VAULT (TYP)
CATCH BASIN AND CULVERT (TYP)
CELL 14 PUMP STATION
CELL 13 PUMP STATION
CELL 11 PUMP STATION
RIPRAP DITCH (TYP)
RIPRAP CB INLET
EXISTING DETENTION POND INFRASTRUCTURE TO BE REMOVED
DETENTION POND 11
CELL 18 PUMP STATION
EXISTING PAVED ACCESS ROAD TO BE REMOVED
EXISTING PAVED ACCESS ROAD TO BE REMOVED
PROPOSED LANDFILL BASE GRADES (TYP) SEE NOTE 4
PROPOSED CELL LIMITS (TYP)
LIMIT OF PHASE I EXPANSION LINER (TYP)
EXISTING OVERHEAD UTILITIES TO BE REMOVED
STAGE 3 FINAL COVER
STAGE 1 FINAL COVER
STAGE 2 FINAL COVER
C-300
C-301

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. BASE GRADES REPRESENT THE PREPARED SUBGRADE SURFACE BELOW THE UNDERDRAIN OR AUGMENTED LAYER. IN LOCATIONS THAT ARE NOT IDENTIFIED TO RECEIVE UNDERDRAIN OR AUGMENTED LINER, ONE FOOT OF NATIVE SOILS SHALL REMAIN IN PLACE ABOVE THE BASE GRADE. THE BASE LINER SYSTEM SHALL BE CONSTRUCTED ON THE RESULTING GRADE ABOVE THE UNDERDRAIN, AUGMENTED LINER, OR ONE FOOT OF NATIVE SOILS.
5. CELL 17 BASE GRADES REPRESENT PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE LINER SYSTEM WITHIN THE LANDFILL LINER LIMITS. CELL 17 BASE GRADE SHOWN OUTSIDE THE LANDFILL REPRESENT THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE ACCESS ROAD. CELL 17 HAS NOT BEEN CONSTRUCTED AT THE TIME THESE DRAWINGS WERE PREPARED.
6. SPECIAL FLOOD HAZARD ZONE A IS ZONE WITHOUT BASE FLOOD ELEVATION (BFE) PER MAP PANEL 23019C1926D, EFFECTIVE DATE 7/19/2023.

100 0 200 400 FEET

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE BRIAN D. PIERCE 9606 LICENSED PROFESSIONAL ENGINEER 11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SITE DEVELOPMENT PLAN

SME SEVEE & MAHER ENGINEERS
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
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DATE:	11/2025
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LMN:	SITE-DEV
CTB:	SME-STD.CTB

JOB NO. 240101.00 DWG FILE BASE

C-102


100-YEAR FLOOD ZONE SPECIAL FLOOD HAZARD AREA (TYP) SEE NOTE 6 ON DWG C-101
VERNAL POOL (TYP)
GRAVEL UTILITY ACCESS ROADS (TYP)
PROPOSED SOLID WASTE LIMIT (TYP)
26'-WIDE PAVED ACCESS ROAD (TYP)
END OF EXISTING LEACHATE FORCE MAIN
DETENTION POND 11R
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
EXISTING OVERHEAD ELECTRIC LINE (TYP)
LFG KNOCKOUT STRUCTURE (TYP)
CELL 12 PUMP STATION
PRIMARY ACCESS ROAD (TYP)
CELL 11 PUMP STATION
CELL 13 PUMP STATION
CELL 14 PUMP STATION
PROPOSED FENCE (TYP)
DETENTION POND 14
EXISTING CATCH BASIN AND CULVERT TO BE REMOVED
LIMIT OF AUGMENTED LINER (TYP)
PROPOSED GUARDRAIL (TYP)
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
DETENTION POND 13
PROPOSED LANDFILL BASE GRADES (TYP) SEE NOTE 4
PROPOSED CELL LIMITS (TYP)
LIMIT OF PHASE I EXPANSION LINER (TYP)
ANTICIPATED OPERATIONAL WASTE GRADES (TYP) SEE NOTE 4 ON DWG C-101
FENCE (TYP)
20'-WIDE GRAVEL ACCESS ROAD (TYP)
DEED RESTRICTION (TYP)
LEAVE 12" OF NATIVE SOIL IN PLACE ABOVE BASE GRADE (TYP) SEE NOTE 4
CELL 17 BASE GRADES (TYP) SEE NOTE 5
EXISTING EMH (TYP)
EXISTING FORCEMAIN VAULT (TYP)
CELL 16 PUMP STATION
CELL 15 PUMP STATION
DETENTION POND 12
25-FOOT STREAM SETBACK
60 0 120 240 FEET

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. BASE GRADES REPRESENT THE PREPARED SUBGRADE SURFACE BELOW THE UNDERDRAIN OR AUGMENTED LAYER. IN LOCATIONS THAT ARE NOT IDENTIFIED TO RECEIVE UNDERDRAIN OR AUGMENTED LINER, ONE FOOT OF NATIVE SOILS SHALL REMAIN IN PLACE ABOVE THE BASE GRADE. THE BASE LINER SYSTEM SHALL BE CONSTRUCTED ON THE RESULTING GRADE ABOVE THE UNDERDRAIN, AUGMENTED LINER, OR ONE FOOT OF NATIVE SOILS.
5. CELL 17 BASE GRADES REPRESENT PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE LINER SYSTEM WITHIN THE LANDFILL LINER LIMITS. CELL 17 BASE GRADE SHOWN OUTSIDE THE LANDFILL REPRESENT THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE ACCESS ROAD. CELL 17 HAS NOT BEEN CONSTRUCTED AT THE TIME THESE DRAWINGS WERE PREPARED.

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE — BRIAN D. PIERCE — 9609 — PROFESSIONAL ENGINEER — 11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

BASE GRADING PLAN

SME
SEVEE & MAHER ENGINEERS
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Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

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DATE:	11/2025
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LMN:	BASEGRADE
CTB:	SME-STD.CTB

JOB NO. 240101.00 DWG FILE BASE

C-103

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. BASE GRADES REPRESENT THE PREPARED SUBGRADE SURFACE BELOW THE UNDERDRAIN OR AUGMENTED LAYER. IN LOCATIONS THAT ARE NOT IDENTIFIED TO RECEIVE UNDERDRAIN OR AUGMENTED LINER, ONE FOOT OF NATIVE SOILS SHALL REMAIN IN PLACE ABOVE THE BASE GRADE. THE BASE LINER SYSTEM SHALL BE CONSTRUCTED ON THE RESULTING GRADE ABOVE THE UNDERDRAIN, AUGMENTED LINER, OR ONE FOOT OF NATIVE SOILS.
5. CELL 17 BASE GRADES REPRESENT PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE LINER SYSTEM WITHIN THE LANDFILL LINER LIMITS. CELL 17 BASE GRADE SHOWN OUTSIDE THE LANDFILL REPRESENT THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE ACCESS ROAD. CELL 17 HAS NOT BEEN CONSTRUCTED AT THE TIME THESE DRAWINGS WERE PREPARED.

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE BRIAN D. PIERCE 9609 LICENSED PROFESSIONAL ENGINEER 11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

UNDERDRAIN PLAN

SME SEVEE & MAHER ENGINEERS
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LMN:	UNDERDRAIN
CTB:	SME-STD.CTB

JOB NO. 240101.00 DWG FILE BASE

C-104

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. BASE GRADES REPRESENT THE PREPARED SUBGRADE SURFACE BELOW THE UNDERDRAIN OR AUGMENTED LAYER. IN LOCATIONS THAT ARE NOT IDENTIFIED TO RECEIVE UNDERDRAIN OR AUGMENTED LINER, ONE FOOT OF NATIVE SOILS SHALL REMAIN IN PLACE ABOVE THE BASE GRADE. THE BASE LINER SYSTEM SHALL BE CONSTRUCTED ON THE RESULTING GRADE ABOVE THE UNDERDRAIN, AUGMENTED LINER, OR ONE FOOT OF NATIVE SOILS.
5. CELL 17 BASE GRADES REPRESENT PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE LINER SYSTEM WITHIN THE LANDFILL LIMITS. CELL 17 BASE GRADE SHOWN OUTSIDE THE LANDFILL REPRESENT THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE ACCESS ROAD. CELL 17 HAS NOT BEEN CONSTRUCTED AT THE TIME THESE DRAWINGS WERE PREPARED.

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE — BRIAN D. PIERCE — 9601 — LICENSED PROFESSIONAL ENGINEER — 11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

LEAK DETECTION PIPING PLAN

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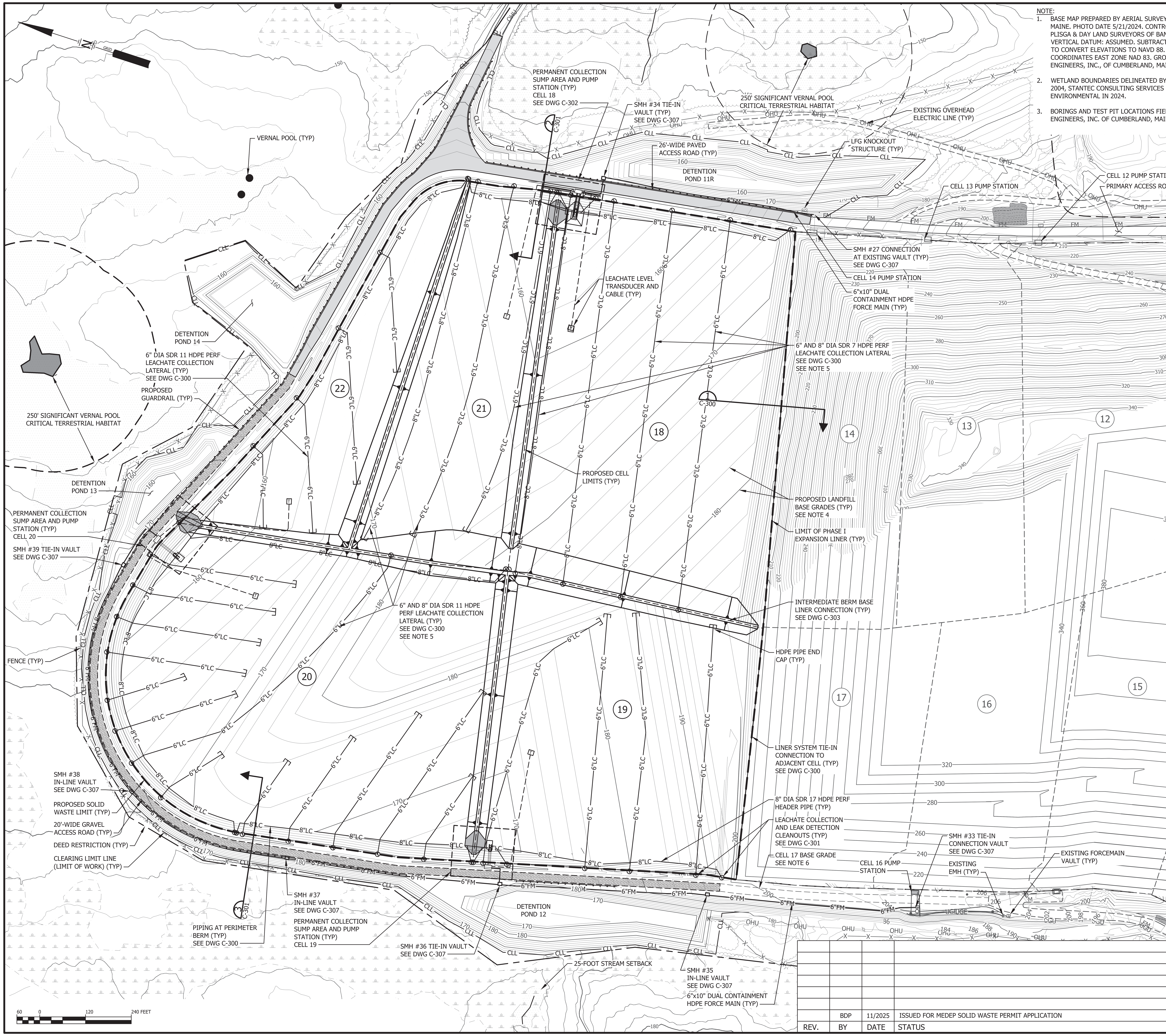
LMN:	LD-PIPE
CTB:	SME-STD.CTB

JOB NO. 240101.00 DWG FILE BASE

C-105



N
GRID
PERMANENT COLLECTION SUMP AREA AND PUMP STATION (TYP) CELL 18 SEE DWG C-302
SMH #34 TIE-IN VAULT (TYP) SEE DWG C-307
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
EXISTING OVERHEAD ELECTRIC LINE (TYP)
VERNAL POOL (TYP)
26'-WIDE PAVED ACCESS ROAD (TYP)
LFG KNOCKOUT STRUCTURE (TYP)
DETENTION POND 11R
CELL 12 PUMP STATION
PRIMARY ACCESS ROAD (TYP)
CELL 13 PUMP STATION
SMH #27 CONNECTION AT EXISTING VAULT (TYP) SEE DWG C-307
CELL 14 PUMP STATION
6"x10" DUAL CONTAINMENT HDPE FORCE MAIN (TYP)
LEACHATE LEVEL TRANSDUCER AND CABLE (TYP)
DETENTION POND 14
6" DIA SDR 11 HDPE PERF LEACHATE COLLECTION LATERAL (TYP) SEE DWG C-300
PROPOSED GUARDRAIL (TYP)
6" AND 8" DIA SDR 7 HDPE PERF LEACHATE COLLECTION LATERAL SEE DWG C-300 SEE NOTE 5
250' SIGNIFICANT VERNAL POOL CRITICAL TERRESTRIAL HABITAT
PROPOSED CELL LIMITS (TYP)
PROPOSED LANDFILL BASE GRADES (TYP) SEE NOTE 4
DETENTION POND 13
LIMIT OF PHASE I EXPANSION LINER (TYP)
PERMANENT COLLECTION SUMP AREA AND PUMP STATION (TYP) CELL 20
SMH #39 TIE-IN VAULT SEE DWG C-307
6" AND 8" DIA SDR 11 HDPE PERF LEACHATE COLLECTION LATERAL (TYP) SEE DWG C-300 SEE NOTE 5
INTERMEDIATE BERM BASE LINER CONNECTION (TYP) SEE DWG C-303
HDPE PIPE END CAP (TYP)
FENCE (TYP)
LINER SYSTEM TIE-IN CONNECTION TO ADJACENT CELL (TYP) SEE DWG C-300
SMH #38 IN-LINE VAULT SEE DWG C-307
PROPOSED SOLID WASTE LIMIT (TYP)
20'-WIDE GRAVEL ACCESS ROAD (TYP)
DEED RESTRICTION (TYP)
CLEARING LIMIT LINE (LIMIT OF WORK) (TYP)
8" DIA SDR 17 HDPE PERF HEADER PIPE (TYP)
LEACHATE COLLECTION AND LEAK DETECTION CLEANOUTS (TYP) SEE DWG C-301
CELL 17 BASE GRADE SEE NOTE 6
CELL 16 PUMP STATION
SMH #33 TIE-IN CONNECTION VAULT SEE DWG C-307
EXISTING EMH (TYP)
EXISTING FORCEMAIN VAULT (TYP)
SMH #37 IN-LINE VAULT SEE DWG C-307
PERMANENT COLLECTION SUMP AREA AND PUMP STATION (TYP) CELL 19
DETENTION POND 12
PIPING AT PERIMETER BERM (TYP) SEE DWG C-300
SMH #36 TIE-IN VAULT SEE DWG C-307
25-FOOT STREAM SETBACK
SMH #35 IN-LINE VAULT SEE DWG C-307
6"x10" DUAL CONTAINMENT HDPE FORCE MAIN (TYP)
11
12
13
14
15
16
17
18
19
20
21
22
2
3A
3B
7
60 0 120 240 FEET

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.
3. BORINGS AND TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND, MAINE.
4. BASE GRADES REPRESENT THE PREPARED SUBGRADE SURFACE BELOW THE UNDERDRAIN OR AUGMENTED LAYER. IN LOCATIONS THAT ARE NOT IDENTIFIED TO RECEIVE UNDERDRAIN OR AUGMENTED LINER, ONE FOOT OF NATIVE SOILS SHALL REMAIN IN PLACE ABOVE THE BASE GRADE. THE BASE LINER SYSTEM SHALL BE CONSTRUCTED ON THE RESULTING GRADE ABOVE THE UNDERDRAIN, AUGMENTED LINER, OR ONE FOOT OF NATIVE SOILS.
5. PIPE SDR RATING IS BASED ON OVERLYING WASTE DEPTH AT WHICH PIPE IS LOCATED. PIPE LATERALS LOCATED WITHIN CELL 18 AND PART OF CELL 21 WILL REQUIRE PIPE HDPE SDR 7.0 RATING
6. CELL 17 BASE GRADES REPRESENT PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE LINER SYSTEM WITHIN THE LANDFILL LINER LIMITS. CELL 17 BASE GRADE SHOWN OUTSIDE THE LANDFILL REPRESENT THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE ACCESS ROAD. CELL 17 HAS NOT BEEN CONSTRUCTED AT THE TIME THESE DRAWINGS WERE PREPARED.

STATE OF MAINE
BRIAN D. PIERCE
9606
LICENSED PROFESSIONAL ENGINEER
11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

LEACHATE COLLECTION PIPING PLAN

SME
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DRAWN BY:	SJM
DATE:	11/2025
CHECKED BY:	BDP
LMN:	LC-PIPE
CTB:	SME-STD.CTB

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	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

JOB NO. 240101.00 DWG FILE BASE

C-106


SMH #19
SMH #17
12"/18" DUAL CONTAINMENT FORCE MAIN
PROPOSED CONTAINMENT AREA PERIMETER
EXISTING GRAVITY LEACHATE DRAIN PIPE
FUTURE PFAS POST-TREATMENT STORAGE TANK ±500,000 GALLONS (PRIOR TO EXPANSION)
FROM PFAS TREATMENT PLANT
SMH #18 MODIFICATION SEE DWG C-311
EXISTING STORAGE BUILDING
RIPRAP DITCH (TYP) SEE DWG C-309
12"/16" DUAL CONTAINMENT FORCE MAIN
EXISTING 921,000 GALLON LEACHATE STORAGE TANK
FUTURE POST TREATMENT LEACHATE PIPING (PRIOR TO EXPANSION)
TANK INLET SEE DWG C-310
TANK OUTLET SEE DWG C-310
LEACHATE STORAGE TANK FOUNDATION DRAIN CONNECT TO EXISTING TANK FOUNDATION DRAIN
8"/12" DUAL CONTAINMENT FORCE MAIN TO PFAS TREATMENT
8'x12' TANK DISCHARGE VALVE PIT SEE DWG C-311
8"/12" DUAL CONTAINMENT FORCE MAIN
6' DIA LOADING RACK VALVE PIT SEE DWG C-311
8"/12" DUAL CONTAINED HDPE LONG RADIUS ELBOW
CB-02 4' DIAMETER RIM 208.00 INV OUT 199.00
LEACHATE STORAGE TANK SYSTEM SECTION SEE DWG C-310
EXISTING PIPING TO LOADING RACK
LEACHATE STORAGE TANK PUMP STATION
8" SDR 11 HDPE PIPE
2" SDR 11 HDPE PIPE
DUAL CONTAINMENT PUMP STATION
8" SDR 11 HDPE PIPE
2"/4" DUAL CONTAINMENT FORCE MAIN
DETENTION POND 6
LEACHATE STORAGE TANK SYSTEM SECTION SEE DWG C-310
(2) 24" DIA HDPE CULVERTS INV IN 192.0 INV OUT 189.0
RIPRAP OUTLET APRON (TYP) SEE DWG C-308
PROPOSED±921,000 GALLON LEACHATE STORAGE TANK
LEACHATE STORAGE TANK AREA CATCH BASIN INLET
12" DIA IPS HDPE STORM DRAIN OUTLET PIPE
INV OUT 197.5
BOLLARD (TYP)
POST INDICATOR VALVE
BOLLARD (TYP)
POST INDICATOR VALVE (CLOSED POSITION)
8"/12" DUAL CONTAINMENT FORCE MAIN
4" FOUNDATION DRAIN SOLID WALL CORRUGATED POLYETHYLENE PIPE
REMOVE EXISTING CATCH BASIN AND INSTALL END CAP ON 12" DRAIN CORE
ABANDON EXISTING 12" DRAIN LINE IN PLACE
N
10 0 20 40 FEET

NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. CONTROL POINTS BASED ON SURVEY BY PLISGA & DAY LAND SURVEYORS OF BANGOR, MAINE, ON APRIL 24, 2025. VERTICAL DATUM: ASSUMED. SUBTRACT 0.34 FEET FROM ELEVATIONS LISTED TO CONVERT ELEVATIONS TO NAVD 88. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE. SEE NOTE 1 ON DWG C-100.

REV.	BY	DATE	STATUS
	BDP	11/2025	ISSUED FOR MEDEP SOLID WASTE PERMIT APPLICATION

STATE OF MAINE
BRIAN D. PIERCE
9609
LICENSED
PROFESSIONAL ENGINEER
11/11/2025

PHASE II EXPANSION
NEWSME LANDFILL OPERATIONS LLC
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

LEACHATE STORAGE SYSTEM PLAN

SME
SEVEE & MAHER ENGINEERS
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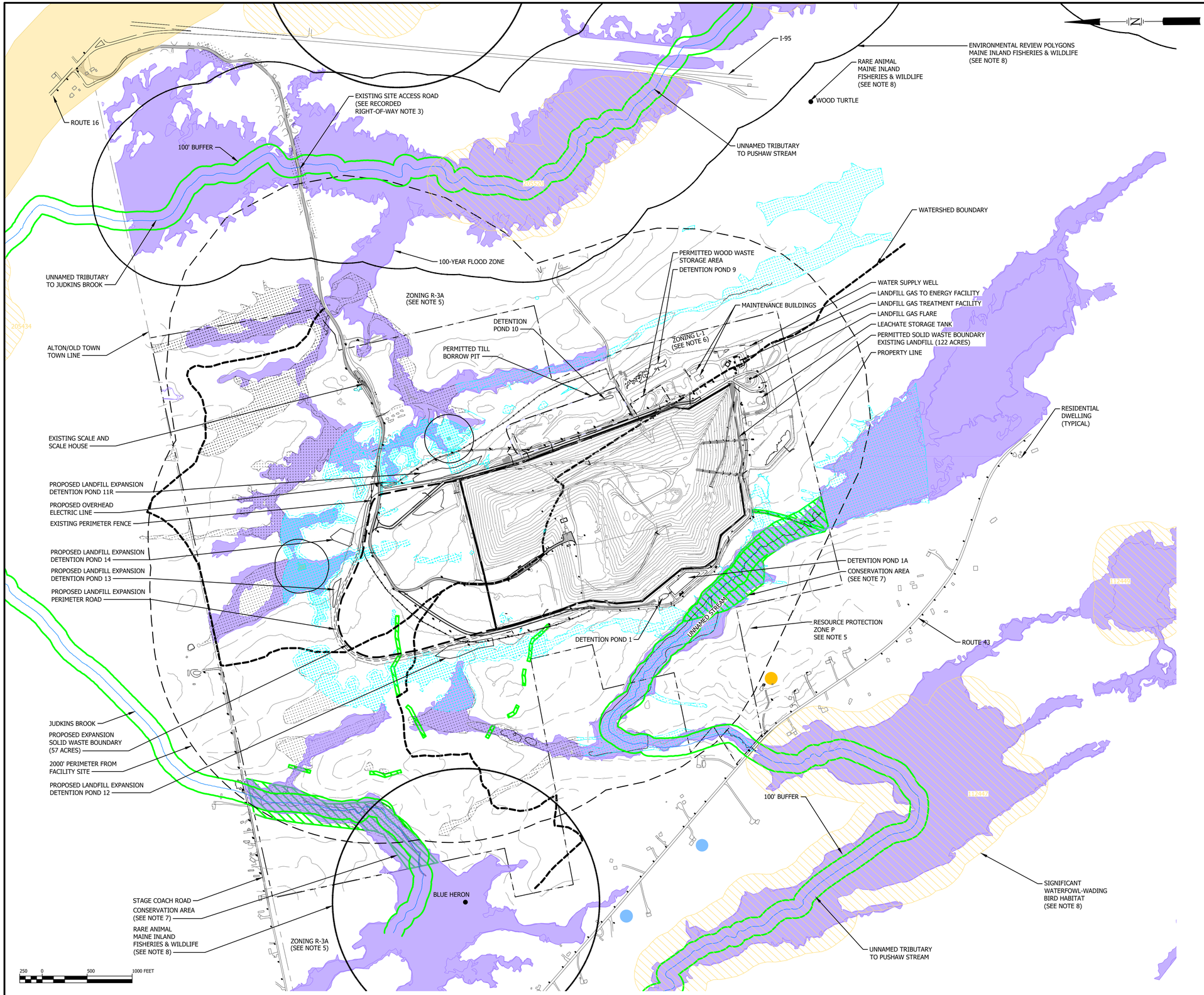
DRAWN BY:	SJM
DATE:	11/2025
CHECKED BY:	BDP
LMN:	LC-STOR
CTB:	SME-STD.CTB

JOB NO. 240101.00 DWG FILE BASE

C-107



NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. VERTICAL DATUM: BRASS PLUG AT PUMP STATION AT THE ADMINISTRATION BUILDING. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE.
2. LANDFILL EXPANSION 59+ ACRE FOOTPRINT BASED UPON CURRENT GRADING PLAN FOR THE JUNIPER RIDGE LANDFILL EXPANSION.
3. PROPERTY LINE LOCATIONS ARE A RESULT OF FIELD SURVEY PERFORMED BY HERRICK AND SALSBURY, INC. LAND SURVEYORS, ELLSWORTH, MAINE FOR TRYTON TREE FARM PROJECT, PATTEN CORPORATION-DOWNEAST, OLD TOWN, MAINE, FEBRUARY 23, 1988, REVISED APRIL 7, 1988.
4. RIGHT OF WAY FOR ALL PURPOSES OVER THE ACCESS ROAD (50) FOOT WIDE, AS DESCRIBED IN EXHIBIT A TO QUITCLAIM DEED WITH COVENANT (BOOK 9188, PAGE 154, #3751 - PENOBSCOT REGISTRY OF DEEDS).
5. THERE ARE NO HISTORICAL OR ARCHAEOLOGICAL PROPERTIES AFFECTED BY THE PROPOSED DEVELOPMENT OF THE JRL PHASE II EXPANSION. PER MAINE HISTORIC PRESERVATION COMMITTEE (JUNE 5, 2024).
6. ZONING, AS DESCRIBED BY THE CITY OF OLD TOWN CODE OF ORDINANCES, FOR PROPERTY OWNED BY THE STATE OF MAINE IS L-1 (LANDFILL ZONE). ALL OTHER PROPERTY SURROUNDING THE SITE IS R-3A (RESIDENCE AND FARMING). REFERENCE IS ZONING MAP OF CITY OF OLD TOWN (2010).
7. CONSERVATION AREAS SHOWN ARE WETLAND AREAS PREVIOUSLY PRESERVED AS DESCRIBED IN DECLARATIONS OF COVENANTS AND RESTRICTIONS BY JAMES RIVER PAPER COMPANY (REVISED PLAN AUGUST 10, 1995). LOCATIONS ARE APPROXIMATE.
8. THERE ARE NO RARE BOTANICAL FEATURES DOCUMENTED WITHIN THE PROJECT AREA BASED UPON A REVIEW OF THE NATURAL AREAS PROGRAM'S BIOLOGICAL AND CONSERVATION DATA SYSTEMS FILES BY THE MAINE DEPARTMENT OF AGRICULTURE CONSERVATION AND FORESTRY (DECEMBER 12, 2022 CORRESPONDENCE).
   THE MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE, WILDLIFE DIVISION, IDENTIFIED WOOD TURTLE, BAT SPECIES, AND SIGNIFICANT VERNAL POOLS, AND FISHERIES HABITAT NEAR THE SITE (DECEMBER 15, 2022 CORRESPONDENCE). THERE HAVE BEEN NO OTHER UNIQUE AREAS IDENTIFIED WITHIN THE GENERAL VICINITY OF THE SITE.
9. THERE ARE NO INDUSTRIAL OR PUBLIC WATER SUPPLY WELLS, PUBLIC WATER SUPPLY WATERSHED AREAS, WELLHEAD PROTECTION AREAS OR SIGNIFICANT SAND AND GRAVEL AQUIFERS LOCATED WITHIN 2000 FEET OF THE PROPOSED EXPANSION. ALL RESIDENTIAL DWELLINGS SHOWN ARE ASSUMED TO HAVE A DOMESTIC WATER SUPPLY WELL.

LEGEND

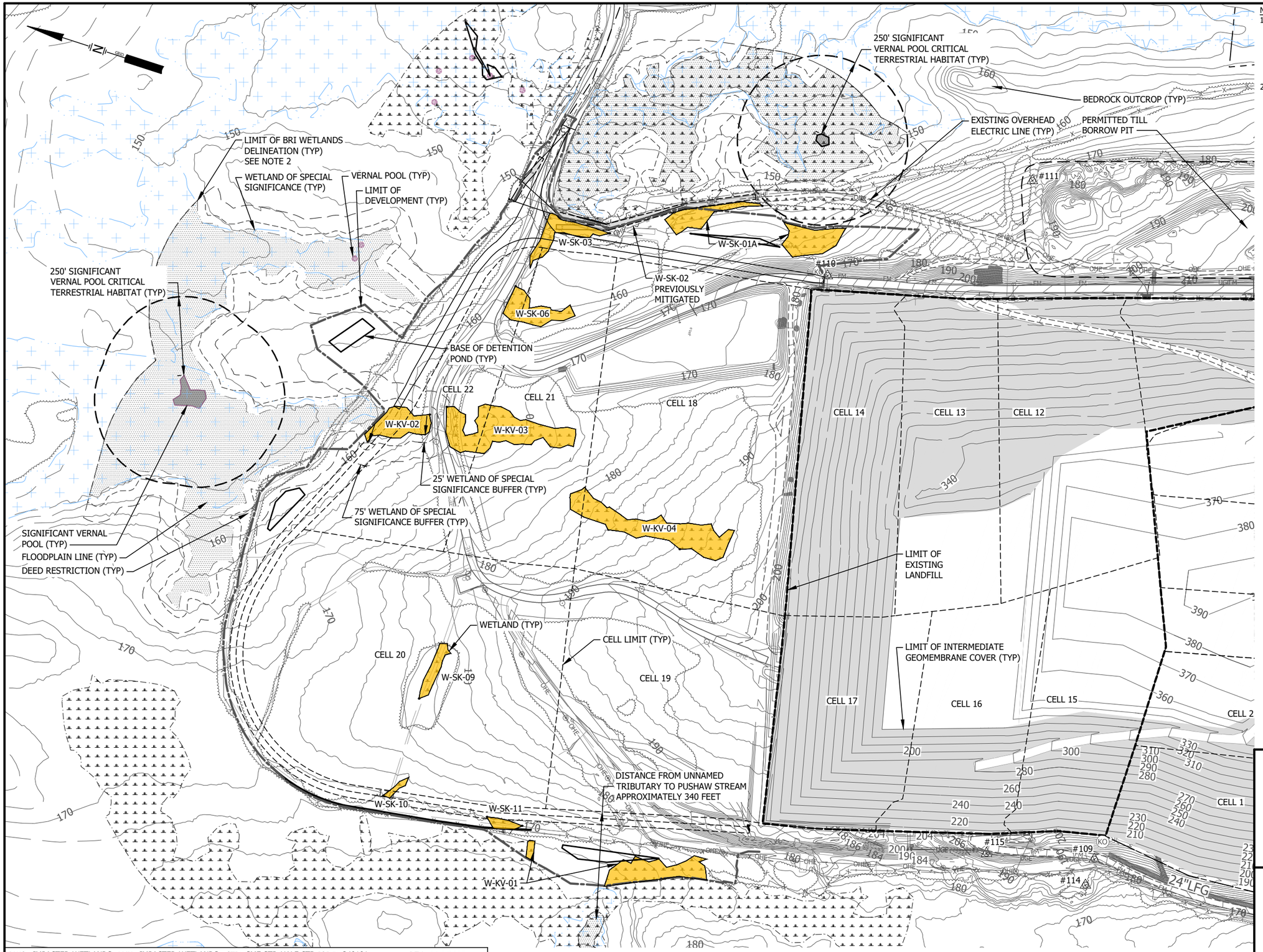
- MAINE INLAND FISHERIES AND WILDLIFE SIGNIFICANT WILDLIFE HABITAT SOURCE: NOVEMBER 5, 2014 CORRESPONDENCE WITH THE MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE
- 100 YEAR FLOOD ZONE (FEMA OLD TOWN QUAD PANEL NUMBER 23019C1926D AND 23019C1927D (EFFECTIVE 7/19/2023)
- WETLANDS DELINEATIONS AS PROVIDED IN NATURAL RESOURCES REPORT FOR JUNIPER RIDGE LANDFILL PROJECT BY BIODIVERSITY RESEARCH INSTITUTE (BRI) DATED, SEPTEMBER 2024.
- WETLANDS DELINEATED BY STANTEC (2004, 2008)
- GROUNDWATER YIELDS GREATER THAN 10 GPM SIGNIFICANT SAND & GRAVEL AQUIFER MGS SURVEY OPEN FILE NO. 01-188 DATED 2001.
- CONSERVATION AREAS
- RESOURCE PROTECTION ZONE P
- YIELD BETWEEN 5 AND 10 GALLONS PER MINUTE
- YIELD BETWEEN 10 AND 15 GALLONS PER MINUTE

} REFERENCE DRAWING: MAINE GEOLOGICAL SURVEY OPEN FILE NO. 02-25 2002 BANGOR 30x60 MINUTE QUADRANGLE

SITE SURROUNDINGS MAP
NRPA APPLICATION
JUNIPER RIDGE LANDFILL EXPANSION
OLD TOWN, MAINE

SME
SEVEE & MAHER ENGINEERS
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

DWG: BUFFERPLAN LMN: SITE SURROUNDINGS CTB: SME-STD.CTB JOB#: 240102.05 REV: 3/6/2025



NOTE:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC, NORRIDGEWOCK, MAINE. PHOTO DATE 5/21/2024. VERTICAL DATUM: BRASS PLUG AT PUMP STATION AT THE ADMINISTRATION BUILDING. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC., OF CUMBERLAND, MAINE.
2. WETLAND BOUNDARIES DELINEATED BY WOODLOT ALTERNATIVES, INC. IN 2004, STANTEC CONSULTING SERVICES 2008, 2014, 2015, AND BRI ENVIRONMENTAL IN 2024.

LEGEND

- WETLANDS
- WOSS WETLANDS
- W-KV-02 — IMPACTED WETLANDS AND ID
- FLOODPLAIN

WETLAND IMPACT TABLE

IMPACT ID	WETLAND IMPACT AREA	WOSS WETLAND IMPACT AREA
W-KV-01	±19,896 SF	N/A
W-SK-01A	±24,389 SF	N/A
W-KV-02	N/A	±13,692 SF
W-KV-03	±35,806 SF	N/A
W-KV-04	±35,720 SF	N/A
W-SK-03	±11,182 SF	N/A
W-SK-06	±12,993 SF	N/A
W-SK-09	±5,603 SF	N/A
W-SK-10	±1,431 SF	N/A
W-SK-11	±2,650 SF	N/A
TOTAL	±149,670 SF	±13,692 SF

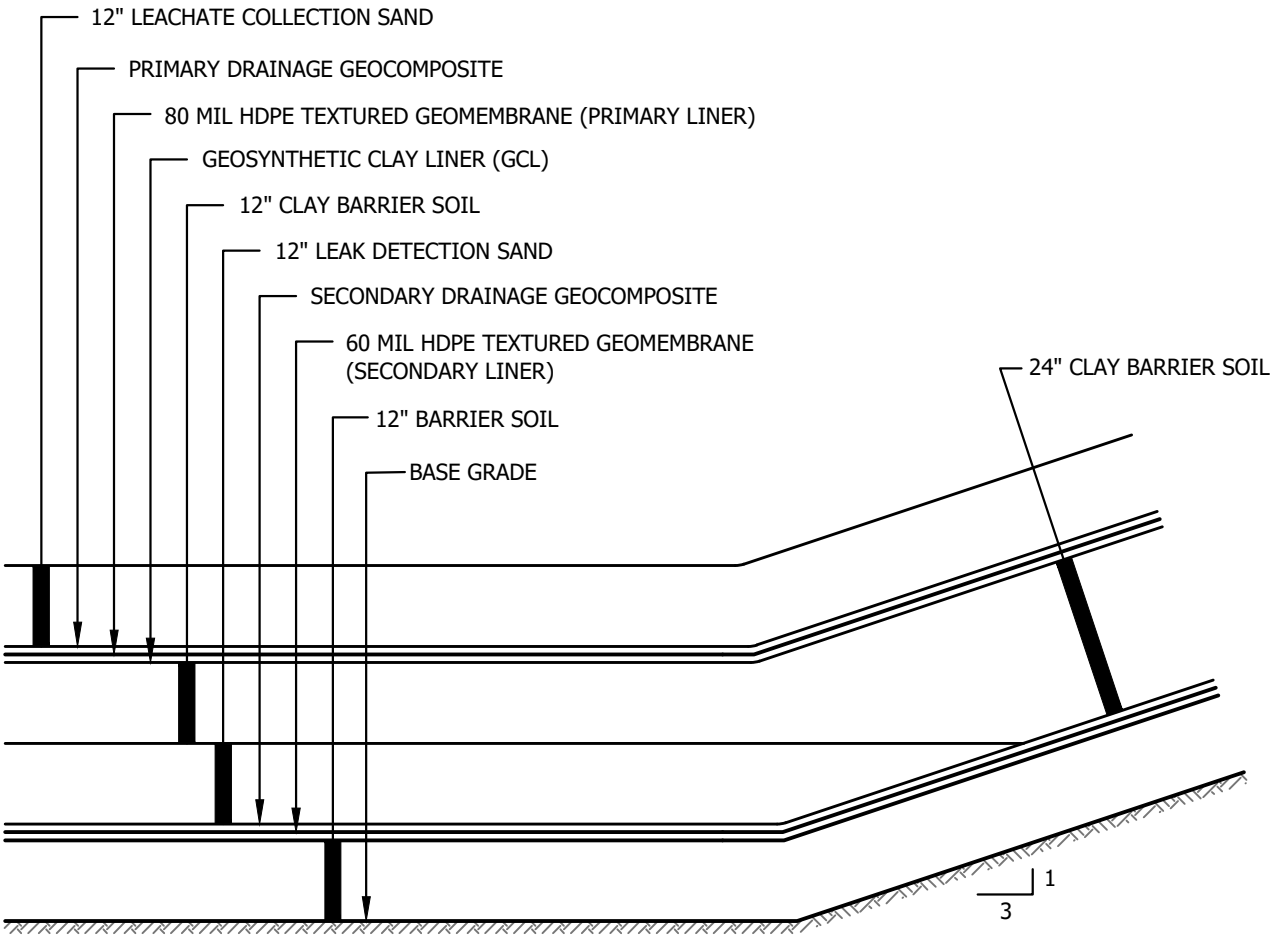
150 0 300 FEET

FIGURE 1-4
IMPACTED WETLAND AREAS
PHASE II EXPANSION
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SME
SEVEE & MAHER ENGINEERS

DWG: IMPACTED-WETLANDS LMN: IMPACTED-WETLANDS CTB: SME-STD-HALF.CTB JOB#: 240101 REV: 8/12/2025

\\Server\rds\Casella\OldTown\Landfill\Expansion\Phase II Expansion\Acad\Figures\IMPACTED-WETLANDS.dwg, B_FIGURE 1-4, 8/12/2025 2:08:48 PM, sjm



BASE LINER SYSTEM

NTS

FIGURE 1-3
PROPOSED PHASE II
LANDFILL LINER SYSTEM
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SME
SEVEE & MAHER
ENGINEERS

DWG: LINER LMN: NONE CTB: SME-STD.CTB JOB#: 240102.05 REV: 8/6/2025