

STATE OF NEW HAMPSHIRE

Department of Administrative Services

DIVISION OF PUBLIC WORKS DESIGN & CONSTRUCTION

ARPA-CAMPGROUND EXPANSION PROJECTS

A FEDERAL AID PROJECT

PAWTUCKAWAY STATE PARK: TOILET BUILDING REPLACEMENT

Park Office-7 Pawtuckaway Road, Nottingham, NH

DPW Project #81205R Contract B

Department of Natural &
Cultural Resources



7 Hazen Drive PO Box 483 Room 250
Concord, New Hampshire 03301
p 603-271-3516 f 603-271-3515

COMMISSIONER-DEPARTMENT OF ADMINISTRATIVE SERVICES

SIGNATURE _____ DATE _____

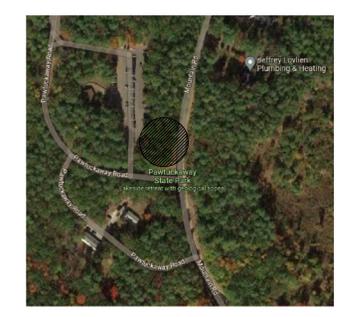
DIRECTOR-DIVISION OF PUBLIC WORKS

SIGNATURE _____ DATE _____

COMMISSIONER-DEPARTMENT OF
NATURAL & CULTURAL RESOURCES

SIGNATURE _____ DATE _____

LOCUS MAP



REVISIONS

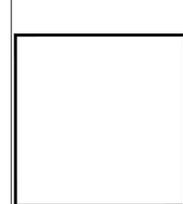
DATE	SYMBOL	DESCRIPTION

PROJECT NAME
ARPA-Campground
Expansion Projects

PROJECT NUMBER
81205R-B

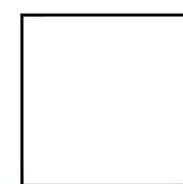
ISSUE DATE
3/15/2024

SHEET NUMBER
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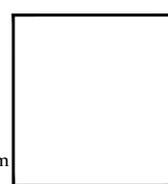
CIVIL

Horizons Engineering
34 School St.
Littleton, NH 03561
p. 603-444-4111
e. wdavis@horizonsengineering.com



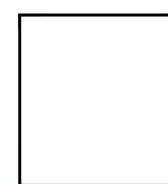
ELECTRICAL

CPB & Associates
500 Depot St.
Rumney, NH 03246
p. 603-786-9992
e. chuck6x6@yahoo.com



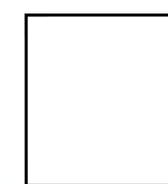
ARCHITECT

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p. 603-968-7133
e. ward@sdarchitects.com



LANDSCAPE ARCHITECT

SE GROUP
1 Chase Mill, Suite 190
Burlington, VT 05401
p. 802-862-0098
e. polstad@segroup.com



PAWTUCKAWAY STATE PARK

TOILET BUILDING RENOVATIONS - 100% CONSTRUCTION DOCUMENTS

7 Pawtuckaway Road
 Nottingham, NH 03590

SHEET LIST

SHEET NO.	SHEET TITLE
G0.00	COVER SHEET
C1.00	OVERALL PLAN
C1.01	BIG ISLAND ROAD EXISTING CONDITIONS
C1.02	DUMP STATION EXISTING CONDITIONS
C1.03	BATHHOUSE 7 EXISTING CONDITIONS
C1.04	BATHHOUSE 8 EXISTING CONDITIONS
C1.05	BATHHOUSE 9 EXISTING CONDITIONS
C1.06	BATHHOUSE 5 EXISTING CONDITIONS
C1.07	BATHHOUSE 6 EXISTING CONDITIONS
C2.02	DUMP STATION DEMOLITION PLAN
C2.03	BATHHOUSE 7 DEMOLITION PLAN
C2.04	BATHHOUSE 8 DEMOLITION PLAN
C2.05	BATHHOUSE 9 DEMOLITION PLAN
C2.06	BATHHOUSE 5 DEMOLITION PLAN
C2.07	BATHHOUSE 6 DEMOLITION PLAN
C3.02	DUMP STATION GRADING AND UTILITY PLAN
C3.03	BATHHOUSE 7 SITE PLAN
C3.04	BATHHOUSE 8 SITE PLAN
C3.05	BATHHOUSE 9 SITE PLAN
C3.06	BATHHOUSE 5 SITE PLAN
C3.07	BATHHOUSE 6 SITE PLAN
C3.08	WATER SYSTEM SITE PLAN AND NOTES
C4.02	DUMP STATION I.S.D.S. PLAN AND DETAILS
C4.03	BATHHOUSE 7 I.S.D.S. PLAN AND DETAILS
C4.04	BATHHOUSE 8 I.S.D.S. PLAN AND DETAILS
C4.05	BATHHOUSE 9 I.S.D.S. PLAN AND DETAILS
C4.06	BATHHOUSE 5 I.S.D.S. PLAN AND DETAILS
C4.07	BATHHOUSE 6 I.S.D.S. PLAN AND DETAILS
C5.00	DETAILS - EROSION CONTROL
C5.01	DETAILS - MISCELLANEOUS
C5.02	DETAILS - MISCELLANEOUS
A0.01	ARCHITECTURAL GENERAL NOTES, ABBREVIATIONS, ANNOTATIONS, LEGENDS AND WALL TYPES
A1.01	MAIN FLOOR PLAN
A1.02	REFLECTED CEILING PLAN AND ROOF PLAN
A2.01	EXTERIOR ELEVATIONS

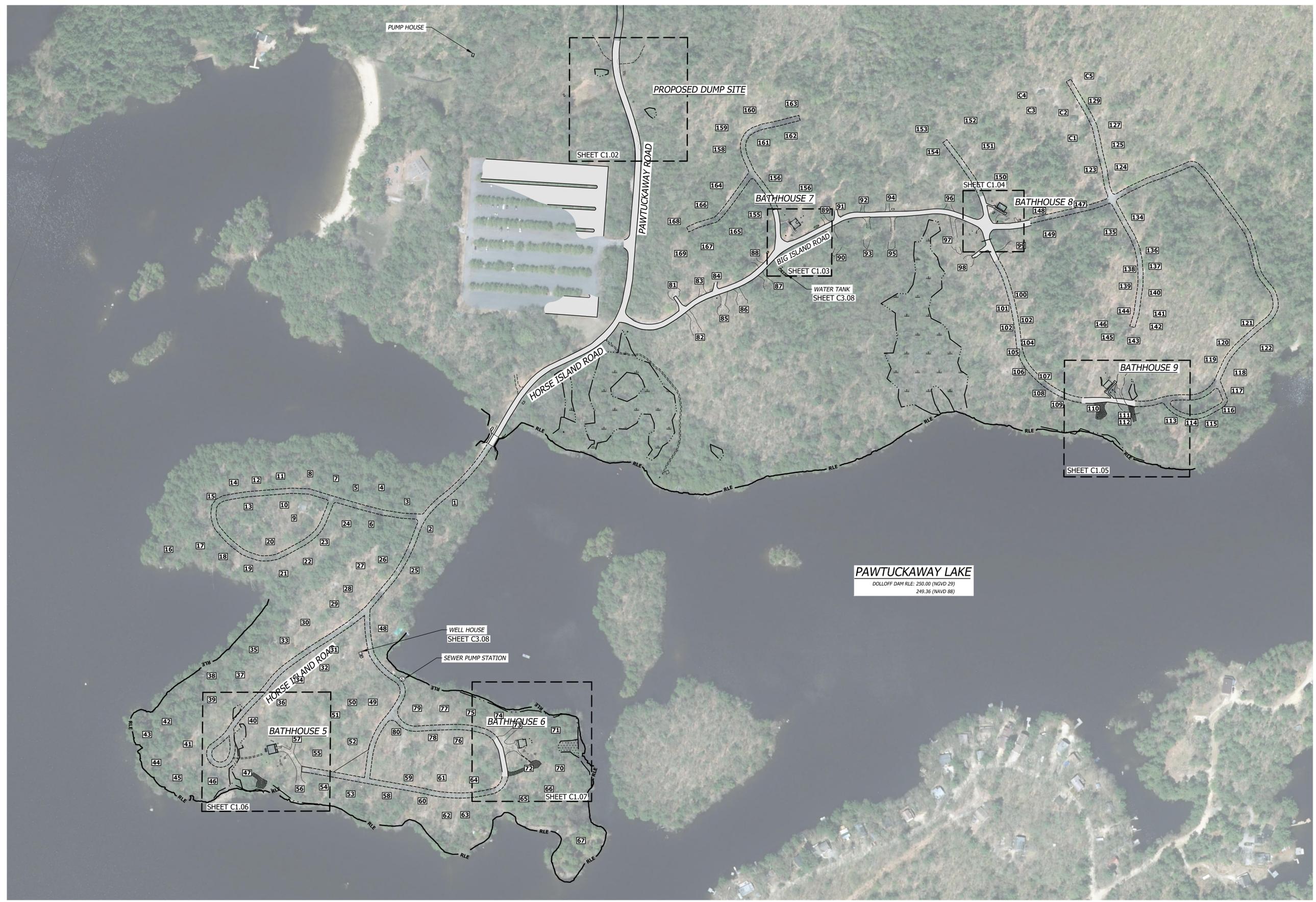
SHEET NO.	SHEET TITLE
A3.01	BUILDING AND WALL SECTIONS
A4.01	INTERIOR ELEVATIONS
A5.01	SCHEDULES
S0.01	STRUCTURAL NOTES
S1.01	FOUNDATION PLAN AND DETAILS
S2.01	ROOF FRAMING PLAN AND FRAMING SECTION
S3.01	TRUSS DIAGRAMS AND DETAILS
M1.01P	MECHANICAL PLAN AND DETAILS
E1.01P	ELECTRICAL PLAN AND DETAILS
E1.02P	ELECTRICAL RISERS
P1.01P	PLUMBING NOTES, DETAILS AND SCHEDULES
P1.02P	PLUMBING PLANS
P1.03P	PLUMBING DETAILS

SITE



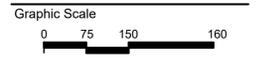
LANDSCAPE ARCHITECT SE GROUP 1 MILL STREET, SUITE 190 BURLINGTON, VT 05401	CIVIL ENGINEER HORIZONS ENGINEERING 8836 POMFRET ROAD, SUITE 2A NORTH POMFRET, VT 05053	ARCHITECT SAMYN-D'ELIA ARCHITECTS, P.A. 6 CENTRAL HOUSE ROAD HOLDERNESS, NH 03245	ELECTRICAL CPB & ASSOCIATES 500 DEPOT STREET RUMNEY, NH 03266
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No.	Description	Date
1	Name	00/00/00



NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 150'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
OVERALL PLAN

Sheet Number:
C1.00

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

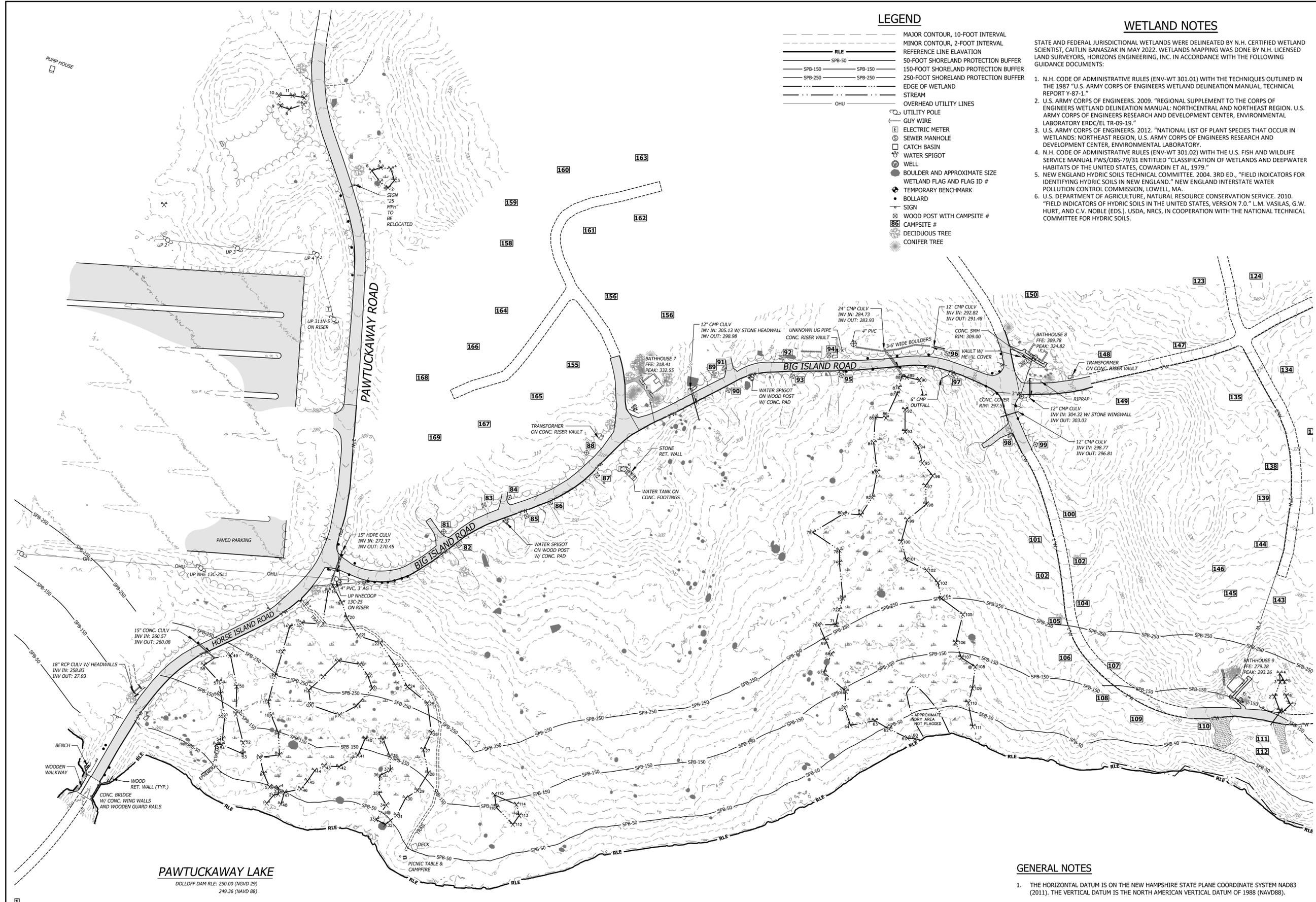
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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- 150-FOOT SHORELAND PROTECTION BUFFER
- 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ELECTRIC METER
- SEWER MANHOLE
- CATCH BASIN
- WATER SPIGOT
- WELL
- BOULDER AND APPROXIMATE SIZE
- WETLAND FLAG AND FLAG ID #
- TEMPORARY BENCHMARK
- BOLLARD
- SIGN
- WOOD POST WITH CAMPSITE #
- CAMPSITE #
- DECIDUOUS TREE
- CONIFER TREE

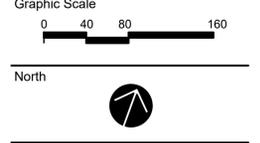
WETLAND NOTES

- STATE AND FEDERAL JURISDICTIONAL WETLANDS WERE DELINEATED BY N.H. CERTIFIED WETLAND SCIENTIST, CAITLIN BANASZAK IN MAY 2022. WETLANDS MAPPING WAS DONE BY N.H. LICENSED LAND SURVEYORS, HORIZONS ENGINEERING, INC. IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
- N.H. CODE OF ADMINISTRATIVE RULES (ENV-WT 301.01) WITH THE TECHNIQUES OUTLINED IN THE 1987 "U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1."
 - U.S. ARMY CORPS OF ENGINEERS. 2009. "REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH-CENTRAL AND NORTHEAST REGION. U.S. ARMY CORPS OF ENGINEERS RESEARCH AND DEVELOPMENT CENTER, ENVIRONMENTAL LABORATORY ERDC/EL TR-09-19."
 - U.S. ARMY CORPS OF ENGINEERS. 2012. "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST REGION, U.S. ARMY CORPS OF ENGINEERS RESEARCH AND DEVELOPMENT CENTER, ENVIRONMENTAL LABORATORY."
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 - NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2004. 3RD ED., "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND." NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA.
 - U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE. 2010. "FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0." L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.), USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.



NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 80'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
**BIG ISLAND ROAD
EXISTING CONDITION
GENERAL LEGEND & NOTES**
Sheet Number:
C1.01

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

GENERAL NOTES

- THE HORIZONTAL DATUM IS ON THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD83 (2011). THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THIS PLAN IS BASED ON A FIELD SURVEY COMPLETED IN MAY OF 2023 WITH CARLSON BRX7 AND SOKKIA GRX3 DUAL FREQUENCY SURVEY GRADE GPS RECEIVERS AND A LEICA TS AND TS13 ROBOTIC TOTAL STATIONS.
- TOPOGRAPHY SHOWN HEREON IS BASED ON BARE EARTH DEM LIDAR DATA FILES DATED 2019 FROM THE STATE OF NEW HAMPSHIRE.
- WATER LINE LOCATIONS DEPICTED IN THESE PLANS ARE FROM SCHEMATIC RECORD DRAWINGS, AND LOCATIONS SHOULD BE FIELD VERIFIED.

PAWTUCKAWAY LAKE
DOLLOFF DAM RLE: 250.00 (NGVD 29)
249.36 (NAVD 88)

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NH STATE PARKS
Campground Expansion Project P11
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

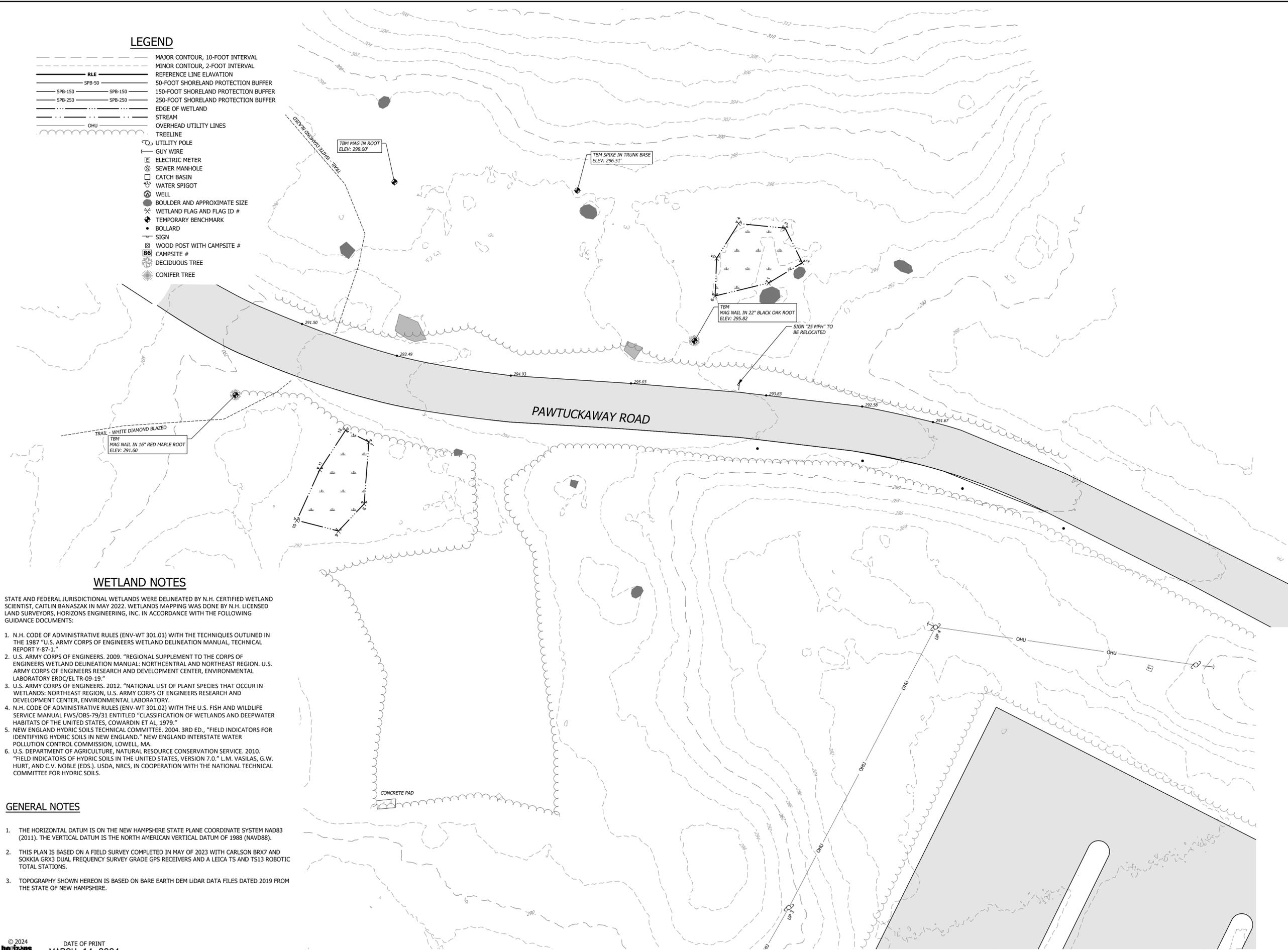
Title
DUMP STATION
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:

C1.02

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- 150-FOOT SHORELAND PROTECTION BUFFER
- 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- OVERHEAD UTILITY LINES
- TREELINE
- UTILITY POLE
- GUY WIRE
- ELECTRIC METER
- SEWER MANHOLE
- CATCH BASIN
- WATER SPIGOT
- WELL
- BOULDER AND APPROXIMATE SIZE
- WETLAND FLAG AND FLAG ID #
- TEMPORARY BENCHMARK
- BOLLARD
- SIGN
- WOOD POST WITH CAMPSITE #
- CAMPSITE #
- DECIDUOUS TREE
- CONIFER TREE



WETLAND NOTES

STATE AND FEDERAL JURISDICTIONAL WETLANDS WERE DELINEATED BY N.H. CERTIFIED WETLAND SCIENTIST, CAITLIN BANASZAK IN MAY 2022. WETLANDS MAPPING WAS DONE BY N.H. LICENSED LAND SURVEYORS, HORIZONS ENGINEERING, INC. IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ PROPANE TANK
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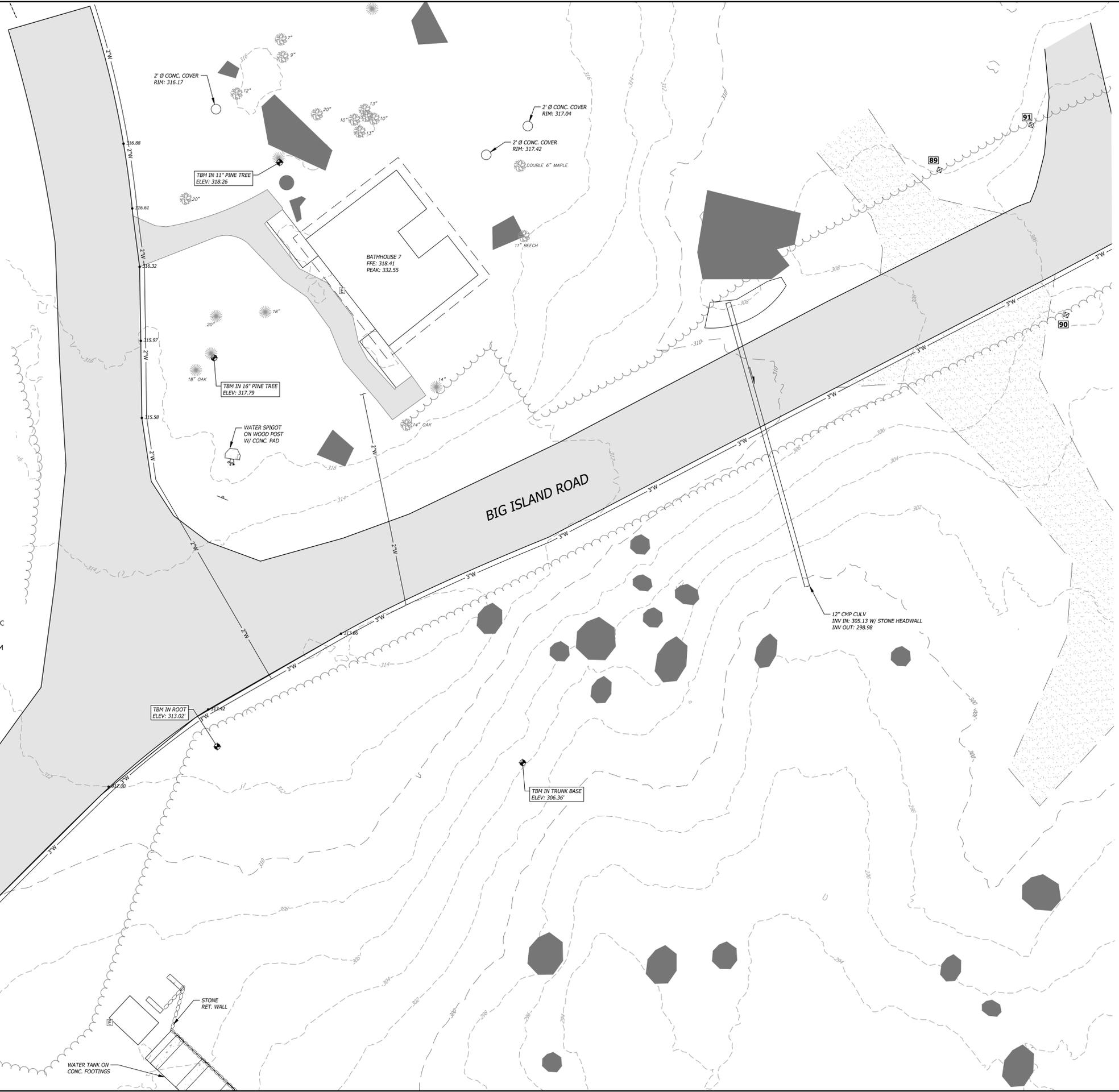
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GENERAL NOTES

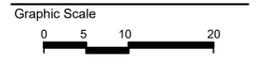
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NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 10'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
BATHHOUSE 7
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:
C1.03

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

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NH STATE PARKS

Campground Expansion Project P11
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 10'
Date: March 15, 2024
Drawn By: SJB
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Issues:

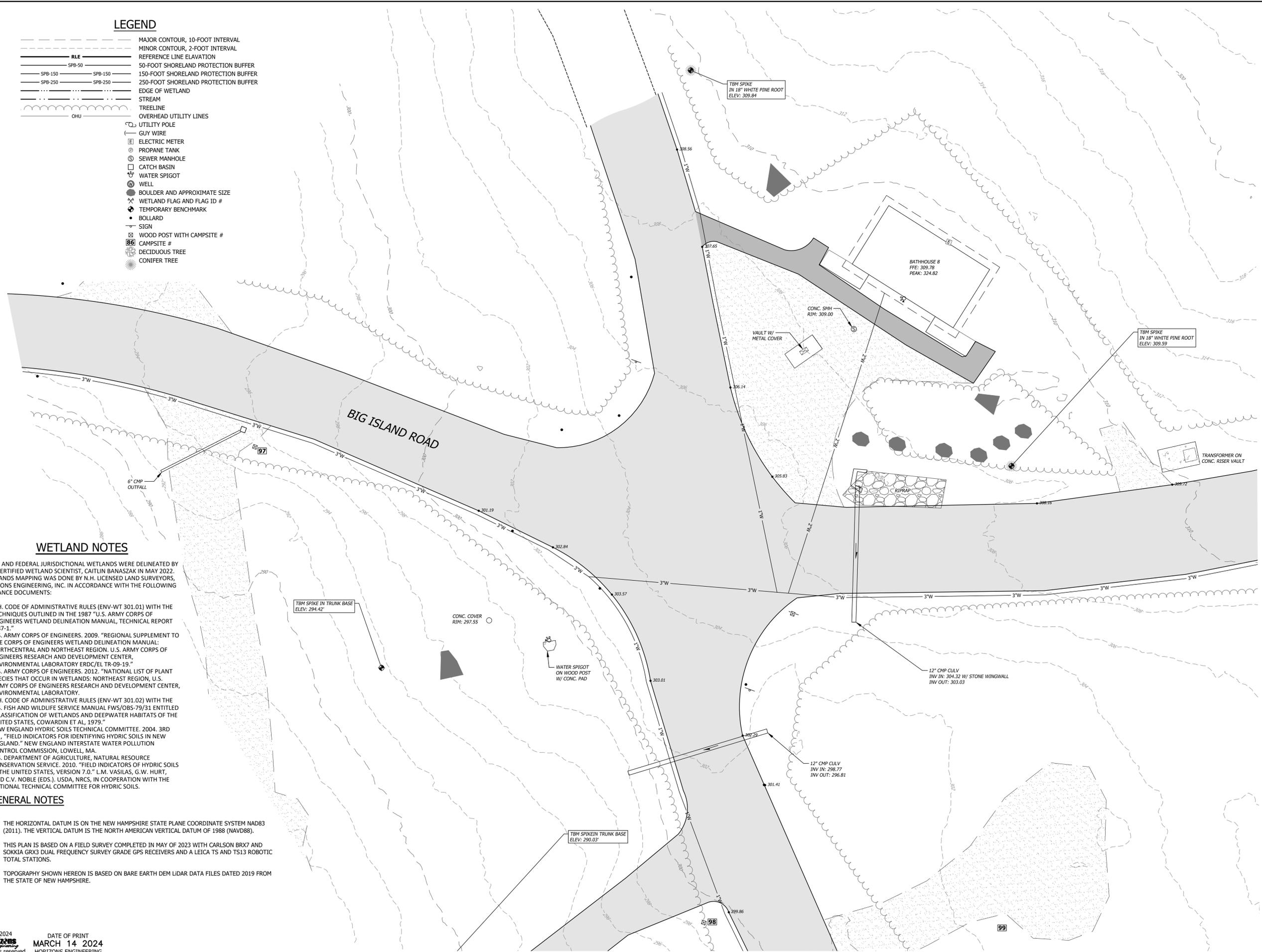
No.	Description	Date
1	Name	00/00/00

Title
BATHHOUSE 8
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:
C1.04

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
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WETLAND NOTES

STATE AND FEDERAL JURISDICTIONAL WETLANDS WERE DELINEATED BY N.H. CERTIFIED WETLAND SCIENTIST, CAITLIN BANASZAK IN MAY 2022. WETLANDS MAPPING WAS DONE BY N.H. LICENSED LAND SURVEYORS, HORIZONS ENGINEERING, INC. IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:

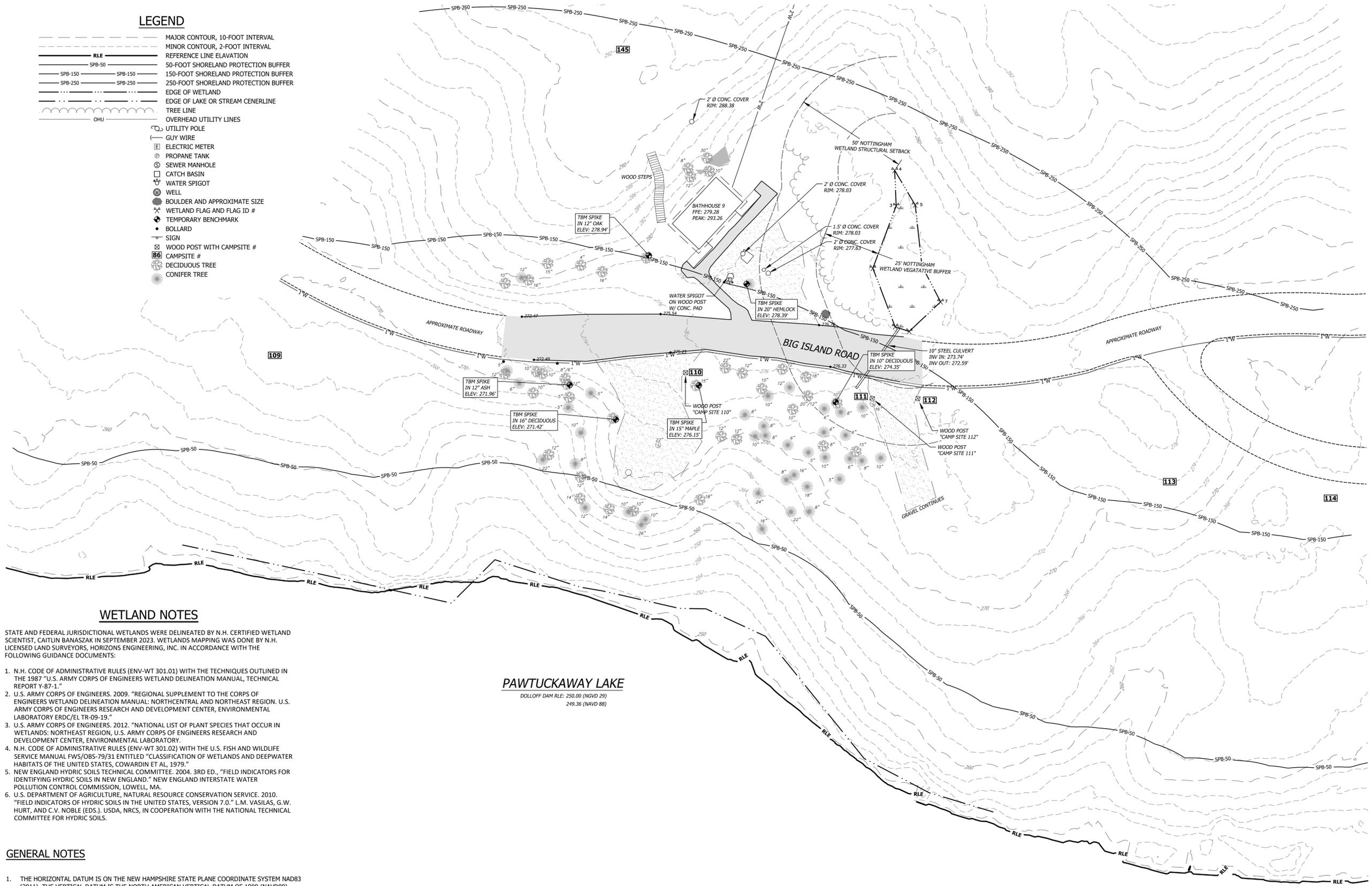
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- U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE. 2010. "FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0." L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.). USDA, NRCS, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.

GENERAL NOTES

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- THIS PLAN IS BASED ON A FIELD SURVEY COMPLETED IN MAY OF 2023 WITH CARLSON BRX7 AND SOKKIA GRX3 DUAL FREQUENCY SURVEY GRADE GPS RECEIVERS AND A LEICA TS AND TS13 ROBOTIC TOTAL STATIONS.
- TOPOGRAPHY SHOWN HEREON IS BASED ON BARE EARTH DEM LIDAR DATA FILES DATED 2019 FROM THE STATE OF NEW HAMPSHIRE.

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- 150-FOOT SHORELAND PROTECTION BUFFER
- 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- EDGE OF LAKE OR STREAM CENTERLINE
- TREE LINE
- OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ELECTRIC METER
- PROpane TANK
- SEWER MANHOLE
- CATCH BASIN
- WATER SPIGOT
- WELL
- BOULDER AND APPROXIMATE SIZE
- WETLAND FLAG AND FLAG ID #
- TEMPORARY BENCHMARK
- BOLLARD
- SIGN
- WOOD POST WITH CAMPSITE #
- CAMPSITE #
- DECIDUOUS TREE
- CONIFER TREE



WETLAND NOTES

STATE AND FEDERAL JURISDICTIONAL WETLANDS WERE DELINEATED BY N.H. CERTIFIED WETLAND SCIENTIST, CAITLIN BANASZAK IN SEPTEMBER 2023. WETLANDS MAPPING WAS DONE BY N.H. LICENSED LAND SURVEYORS, HORIZONS ENGINEERING, INC. IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:

- N.H. CODE OF ADMINISTRATIVE RULES (ENV-WT 301.01) WITH THE TECHNIQUES OUTLINED IN THE 1987 "U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1."
- U.S. ARMY CORPS OF ENGINEERS. 2009. "REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. U.S. ARMY CORPS OF ENGINEERS RESEARCH AND DEVELOPMENT CENTER, ENVIRONMENTAL LABORATORY ERDC/EL TR-09-19."
- U.S. ARMY CORPS OF ENGINEERS. 2012. "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST REGION, U.S. ARMY CORPS OF ENGINEERS RESEARCH AND DEVELOPMENT CENTER, ENVIRONMENTAL LABORATORY."
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PAWTUCKAWAY LAKE
DOLLOFF DAM RLE: 250.00 (NGVD 29)
249.36 (NAVD 88)

NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'
Date: March 15, 2024

Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
BATHHOUSE 9
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:
C1.05

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- EDGE OF LAKE OR STREAM CENTERLINE
- TREE LINE
- OHU OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ PROPANE TANK
- ⊞ SEWER MANHOLE
- ⊞ CATCH BASIN
- ⊞ WATER SPIGOT
- ⊞ WELL
- BOULDER AND APPROXIMATE SIZE
- ✕ WETLAND FLAG AND FLAG ID #
- ⊞ TEMPORARY BENCHMARK
- BOLLARD
- ⊞ SIGN
- ⊞ WOOD POST WITH CAMPSITE #
- ⊞ CAMPSITE #
- ⊞ DECIDUOUS TREE
- ⊞ CONIFER TREE

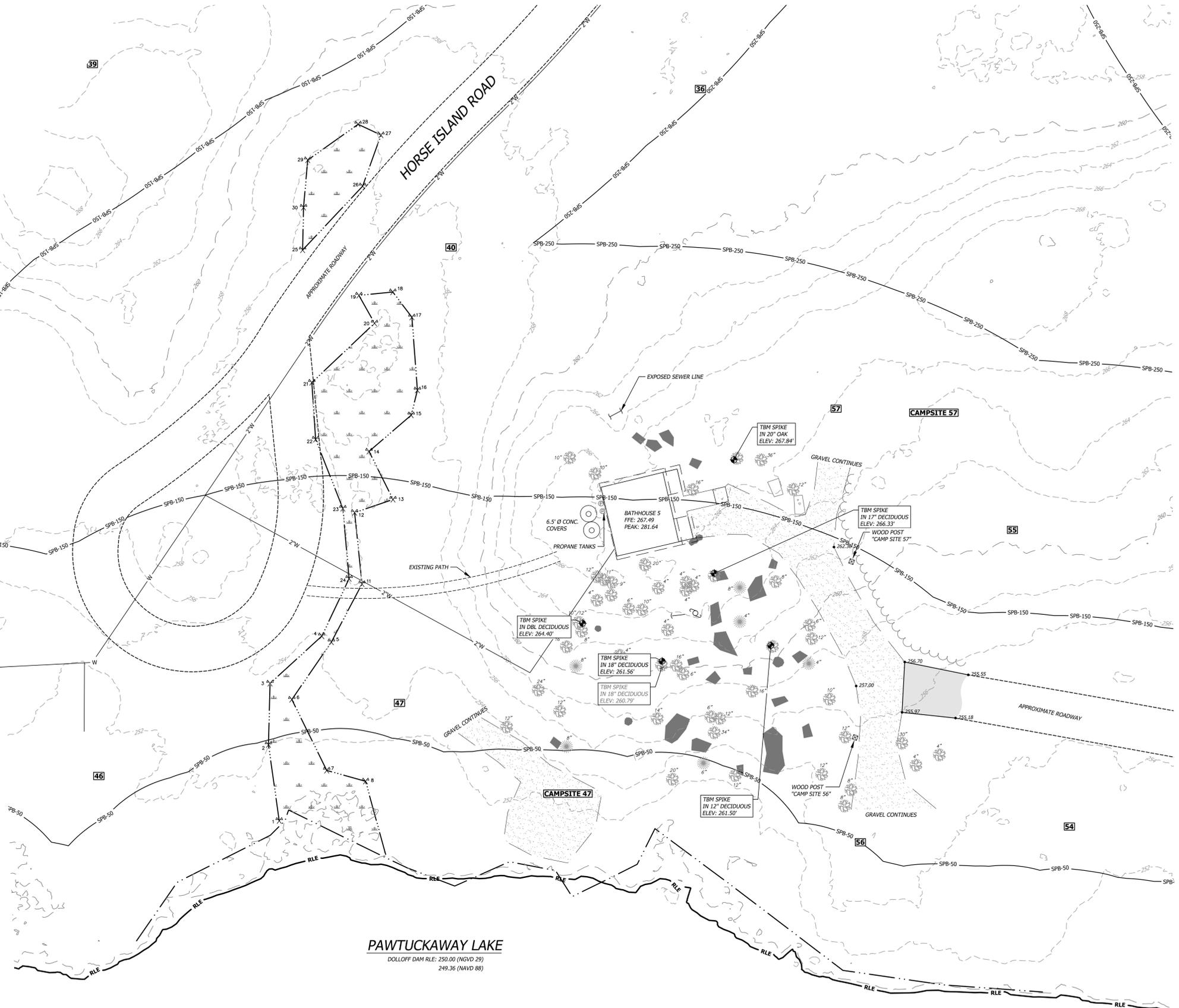
WETLAND NOTES

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GENERAL NOTES

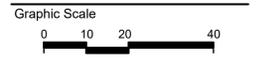
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NH STATE PARKS

Camground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
BATHHOUSE 5
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:

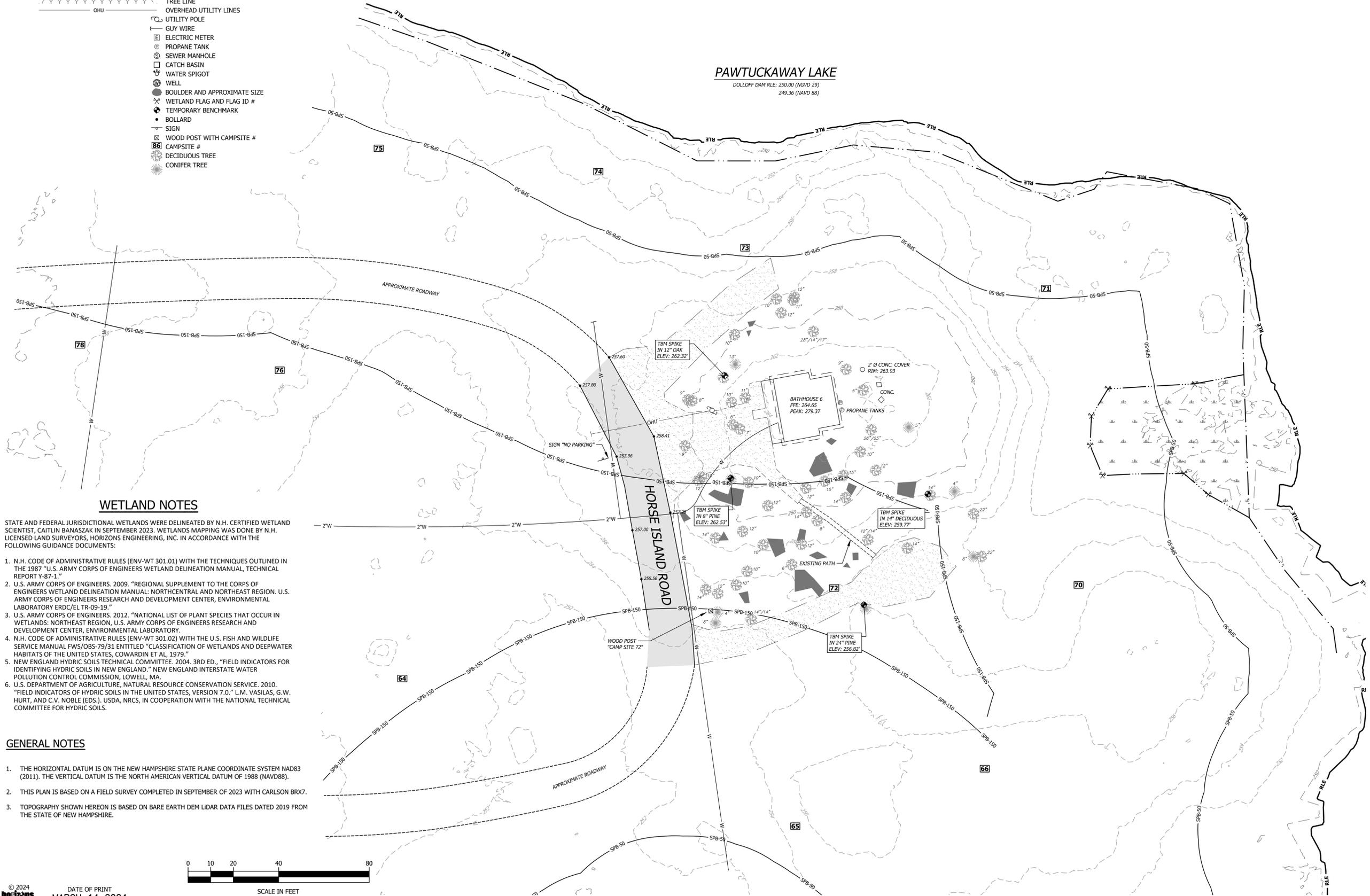
C1.06

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- 150-FOOT SHORELAND PROTECTION BUFFER
- 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- EDGE OF LAKE OR STREAM CENTERLINE
- TREE LINE
- OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ELECTRIC METER
- PROPANE TANK
- SEWER MANHOLE
- CATCH BASIN
- WATER SPIGOT
- WELL
- BOULDER AND APPROXIMATE SIZE
- WETLAND FLAG AND FLAG ID #
- TEMPORARY BENCHMARK
- BOLLARD
- SIGN
- WOOD POST WITH CAMPSITE #
- CAMPSITE #
- DECIDUOUS TREE
- CONIFER TREE

PAWTUCKAWAY LAKE
DOLLOFF DAM RLE: 250.00 (NGVD 29)
249.36 (NAVD 88)



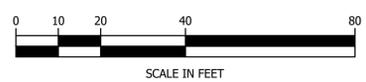
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NH STATE PARKS

Camground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

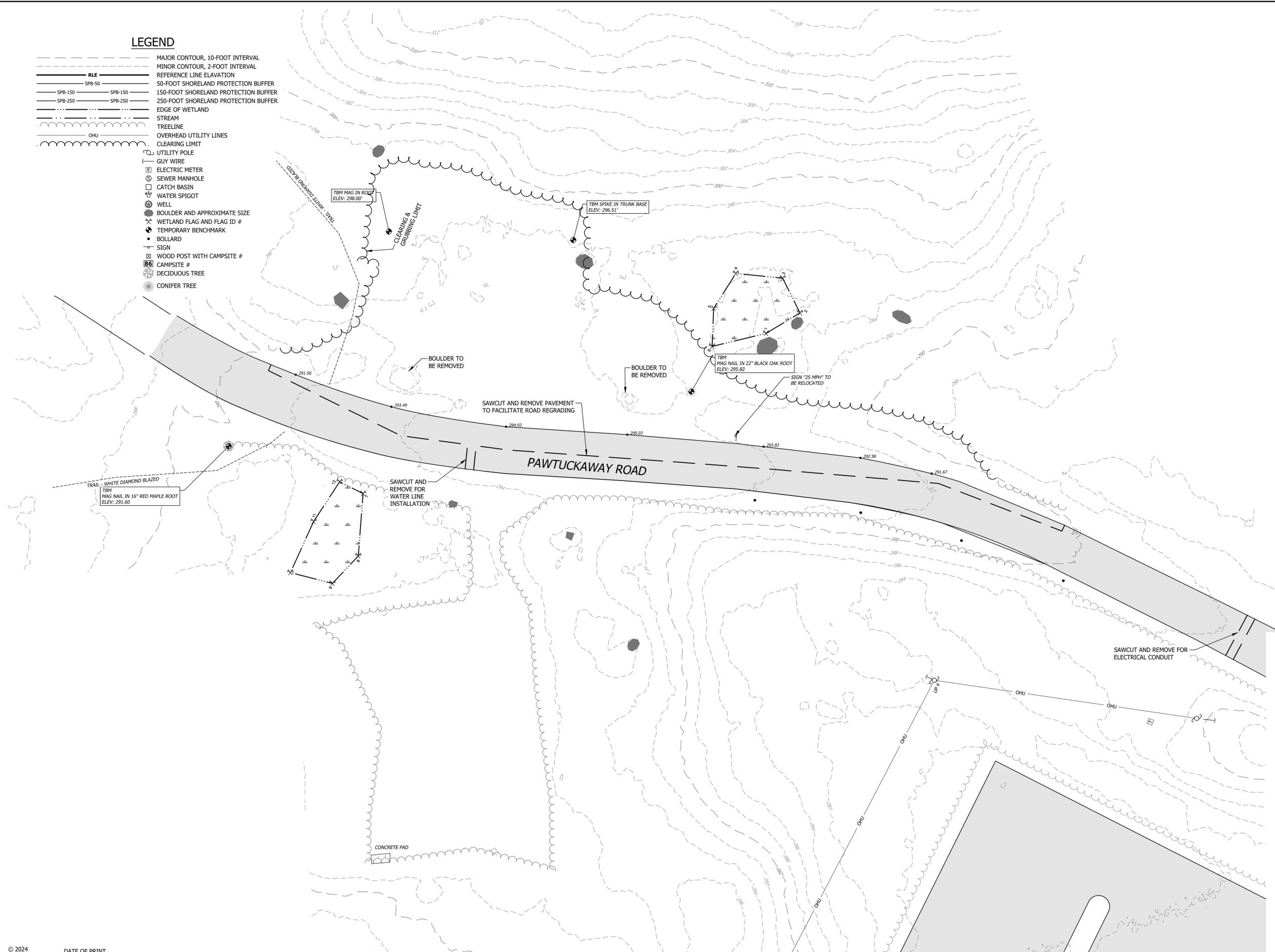
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BATHHOUSE 6
EXISTING CONDITION
GENERAL LEGEND & NOTES
Sheet Number:

C1.07

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ SEWER MANHOLE
- ⊞ CATCH BASIN
- ⊞ WATER SPIGOT
- ⊞ WELL
- BOULDER AND APPROXIMATE SIZE
- ⊞ WETLAND FLAG AND FLAG ID #
- ⊞ TEMPORARY BENCHMARK
- BOLLARD
- ⊞ SIGN
- ⊞ WOOD POST WITH CAMPSITE #
- ⊞ CAMPSITE #
- ⊞ DECIDUOUS TREE
- ⊞ CONIFER TREE



NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
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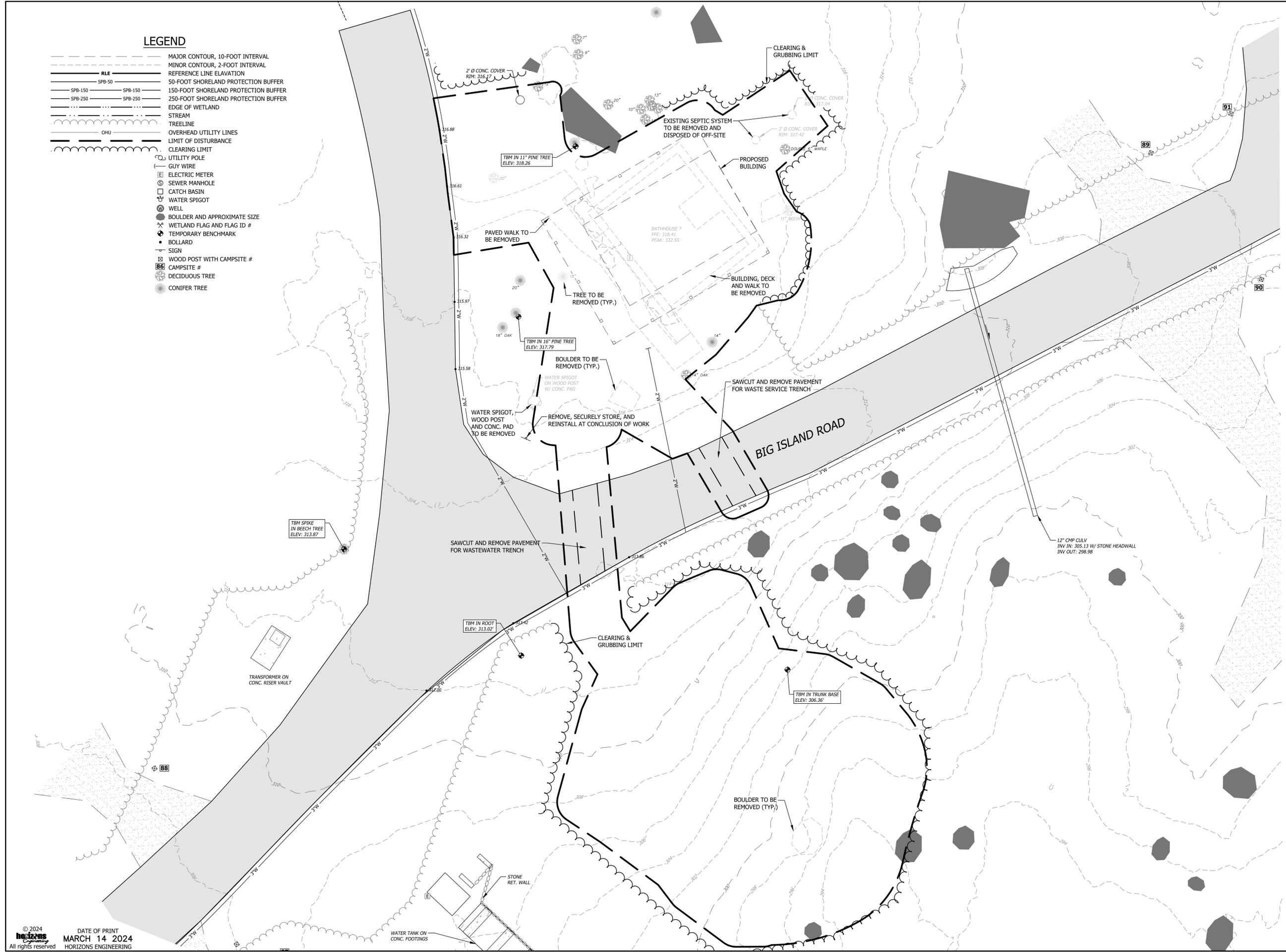
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DUMP STATION
DEMOLITION PLAN
GENERAL LEGEND & NOTES
Sheet Number:
C2.02

Project Number: 23045001
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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ SEWER MANHOLE
- ⊞ CATCH BASIN
- ⊞ WATER SPIGOT
- ⊞ WELL
- BOULDER AND APPROXIMATE SIZE
- ⊞ WETLAND FLAG AND FLAG ID #
- ⊞ TEMPORARY BENCHMARK
- BOLLARD
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- ⊞ WOOD POST WITH CAMPSITE #
- ⊞ CAMPSITE #
- ⊞ DECIDUOUS TREE
- ⊞ CONIFER TREE



NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION
Graphic Scale
0 5 10 20
North

Scale: 1" = 10'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

Issues:

No.	Description	Date
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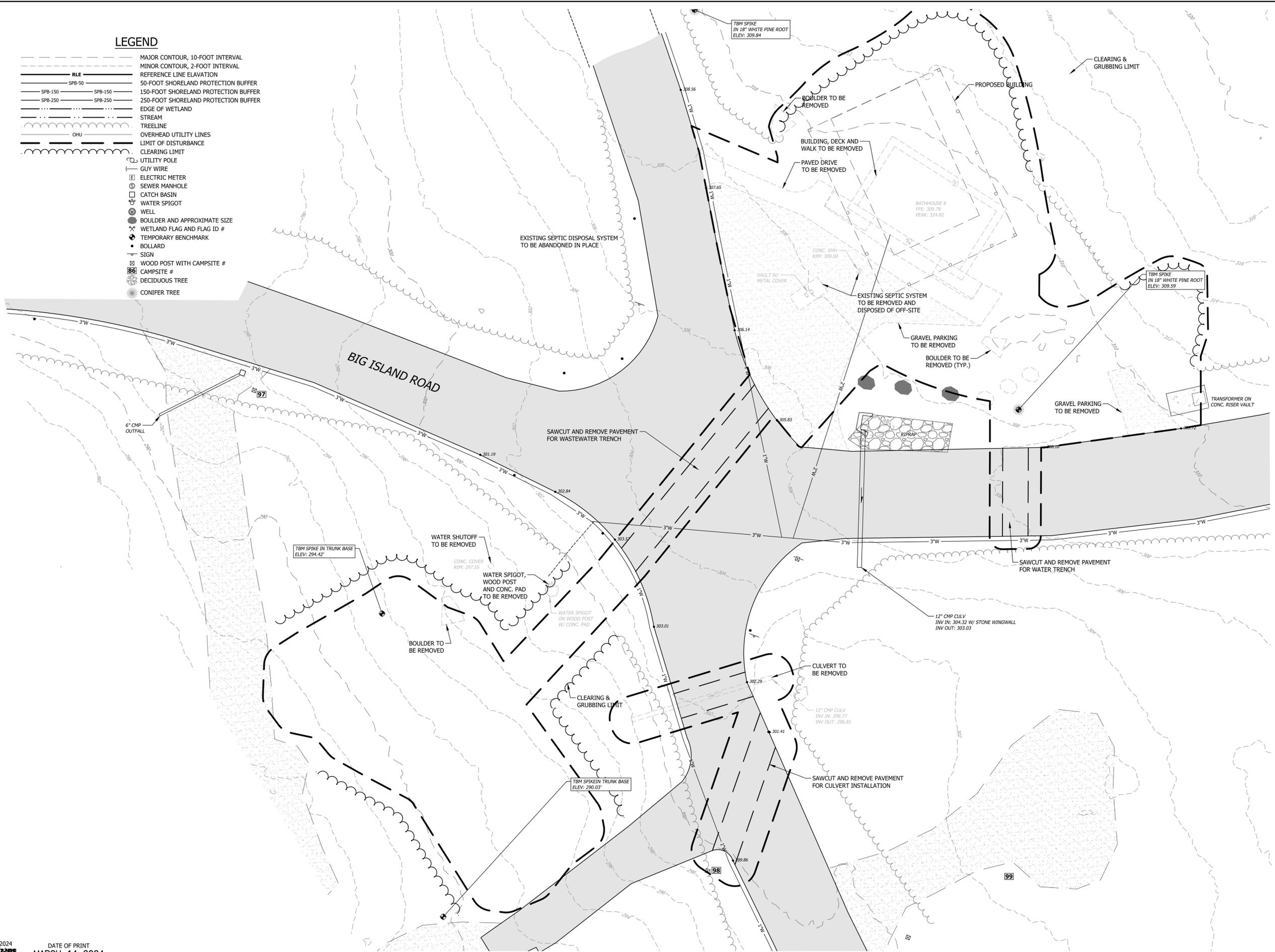
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GENERAL LEGEND & NOTES
Sheet Number:
C2.03

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELAVATION
- 50-FOOT SHORELAND PROTECTION BUFFER
- 150-FOOT SHORELAND PROTECTION BUFFER
- 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OVERHEAD UTILITY LINES
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
- ELECTRIC METER
- SEWER MANHOLE
- CATCH BASIN
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- WELL
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NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CONSTRUCTION

Graphic Scale



North



Scale: 1" = 10'

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

BATHHOUSE 8
DEMOLITION PLAN
GENERAL LEGEND & NOTES
Sheet Number:

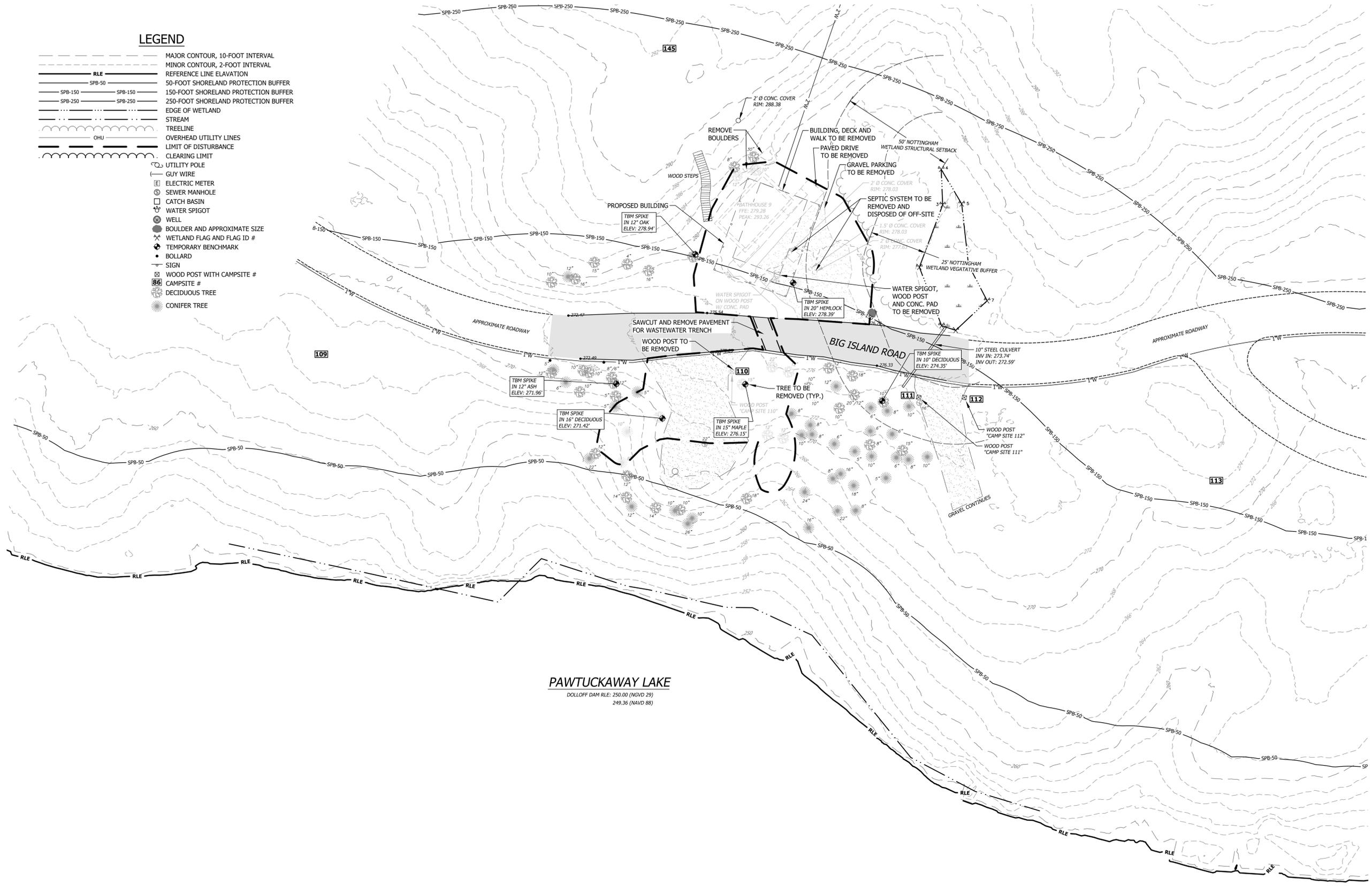
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Project Number: 23045001
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LEGEND

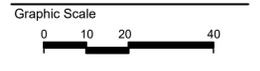
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- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
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- ⊞ WOOD POST WITH CAMPSITE #
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PAWTUCKAWAY LAKE
DOLLOFF DAM RLE: 250.00 (NGVD 29)
249.36 (NAVD 88)

NH STATE PARKS
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Issue
100% CONSTRUCTION



Scale: 1" = 20'
Date: March 15, 2024
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Checked By: WTD

Issues:

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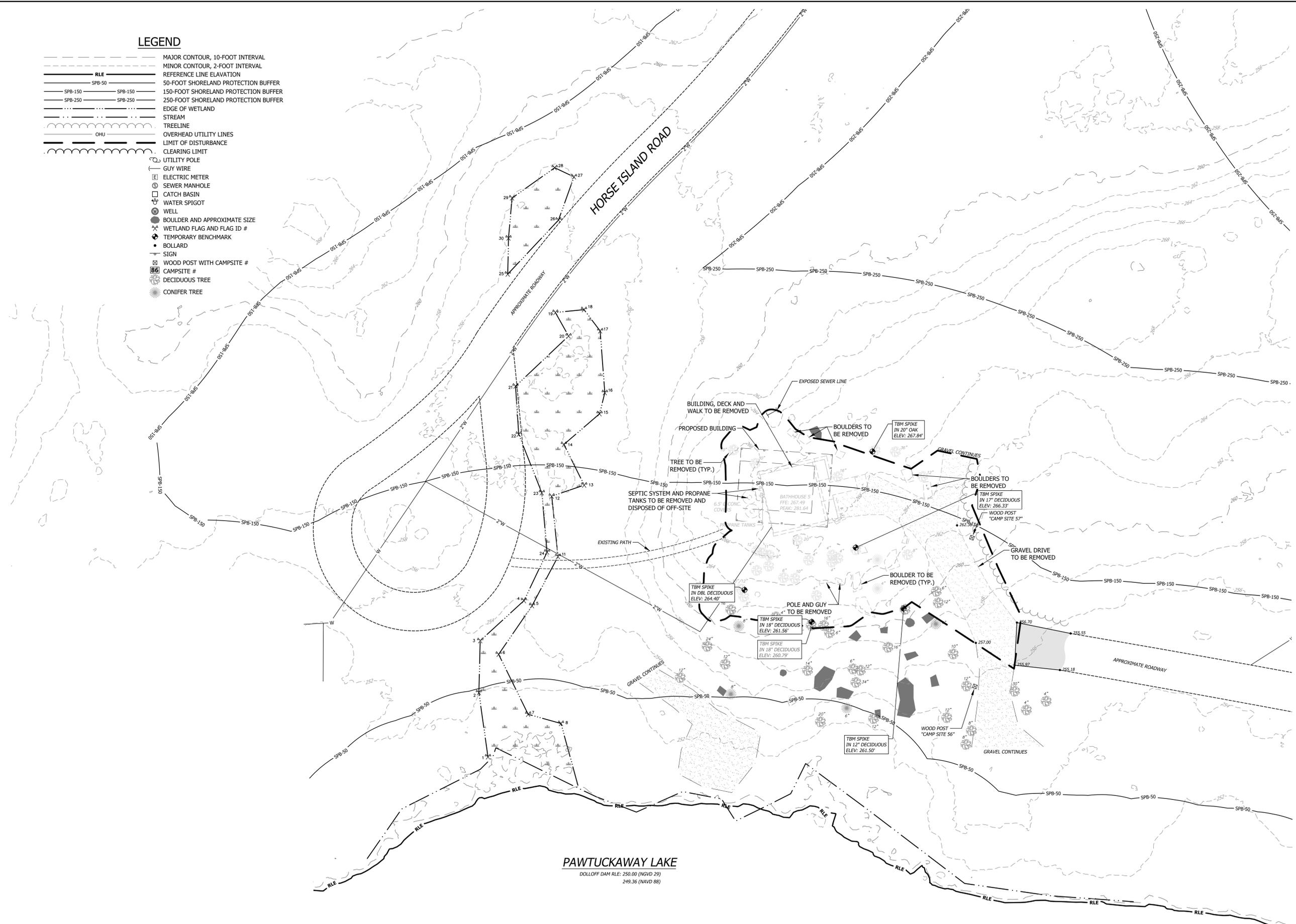
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BATHHOUSE 9
DEMOLITION PLAN
GENERAL LEGEND & NOTES
Sheet Number:
C2.05

Project Number: 23045001
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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- RLE REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ SEWER MANHOLE
- ⊞ CATCH BASIN
- ⊞ WATER SPIGOT
- ⊞ WELL
- ⊞ BOULDER AND APPROXIMATE SIZE
- ⊞ WETLAND FLAG AND FLAG ID #
- ⊞ TEMPORARY BENCHMARK
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- SIGN
- ⊞ WOOD POST WITH CAMPSITE #
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- ⊞ DECIDUOUS TREE
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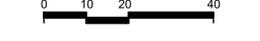
NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CONSTRUCTION

Graphic Scale



North



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

BATHHOUSE 5

DEMOLITION PLAN

GENERAL LEGEND & NOTES

Sheet Number:

C2.06

Project Number: 23045001

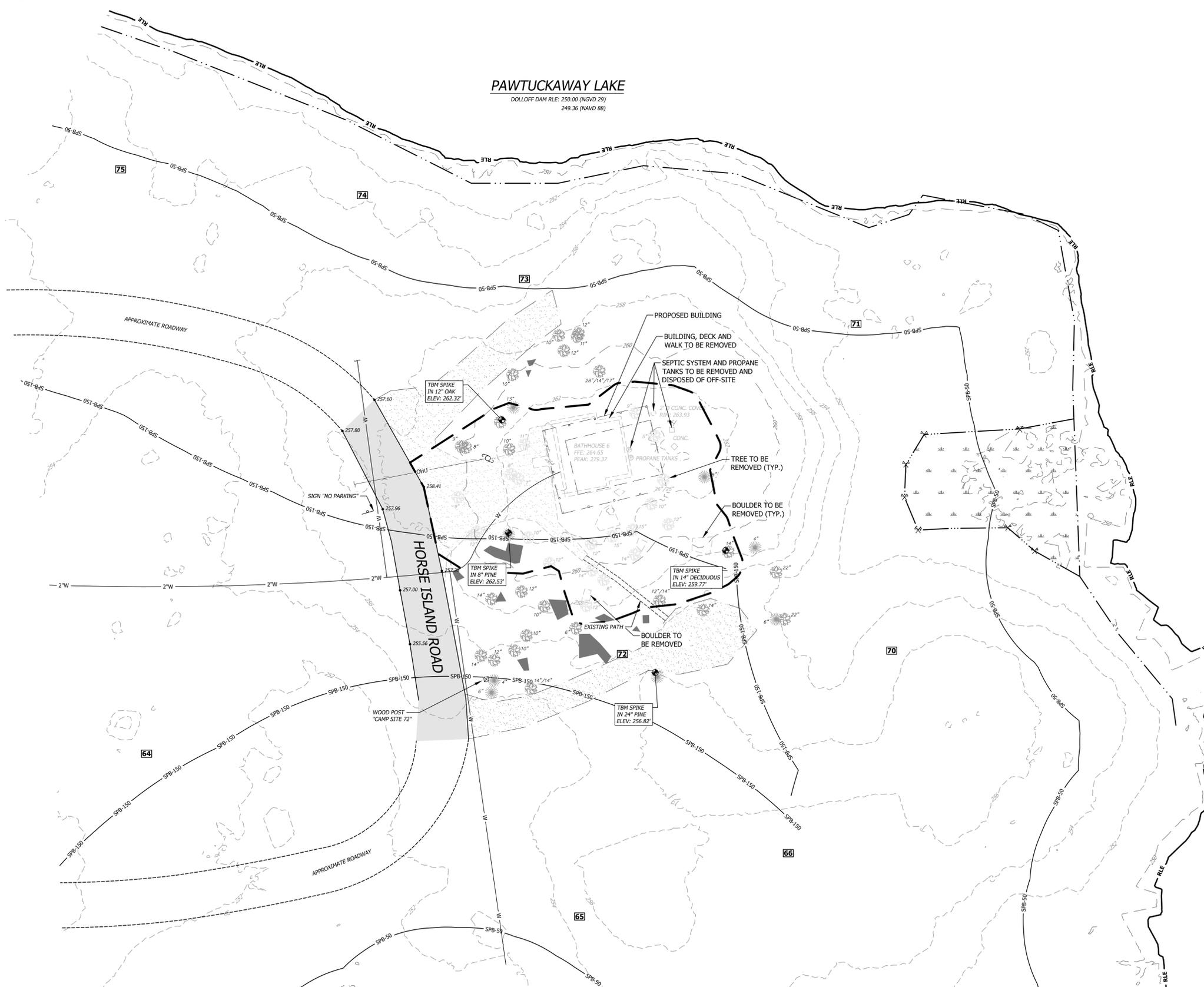
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PAWTUCKAWAY LAKE
DOLLOFF DAM RLE: 250.00 (NGVD 29)
249.36 (NAVD 88)

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- RLE REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- STREAM
- TREELINE
- OHU OVERHEAD UTILITY LINES
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
- ⊞ SEWER MANHOLE
- ⊞ CATCH BASIN
- ⊞ WATER SPIGOT
- ⊞ WELL
- ⊞ BOULDER AND APPROXIMATE SIZE
- ⊞ WETLAND FLAG AND FLAG ID #
- ⊞ TEMPORARY BENCHMARK
- BOLLARD
- SIGN
- ⊞ WOOD POST WITH CAMPSITE #
- ⊞ CAMPSITE #
- ⊞ DECIDUOUS TREE
- ⊞ CONIFER TREE



NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION



Scale: 1" = 20'
Date: March 15, 2024
Drawn By: SJB
Checked By: WTD

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No.	Description	Date
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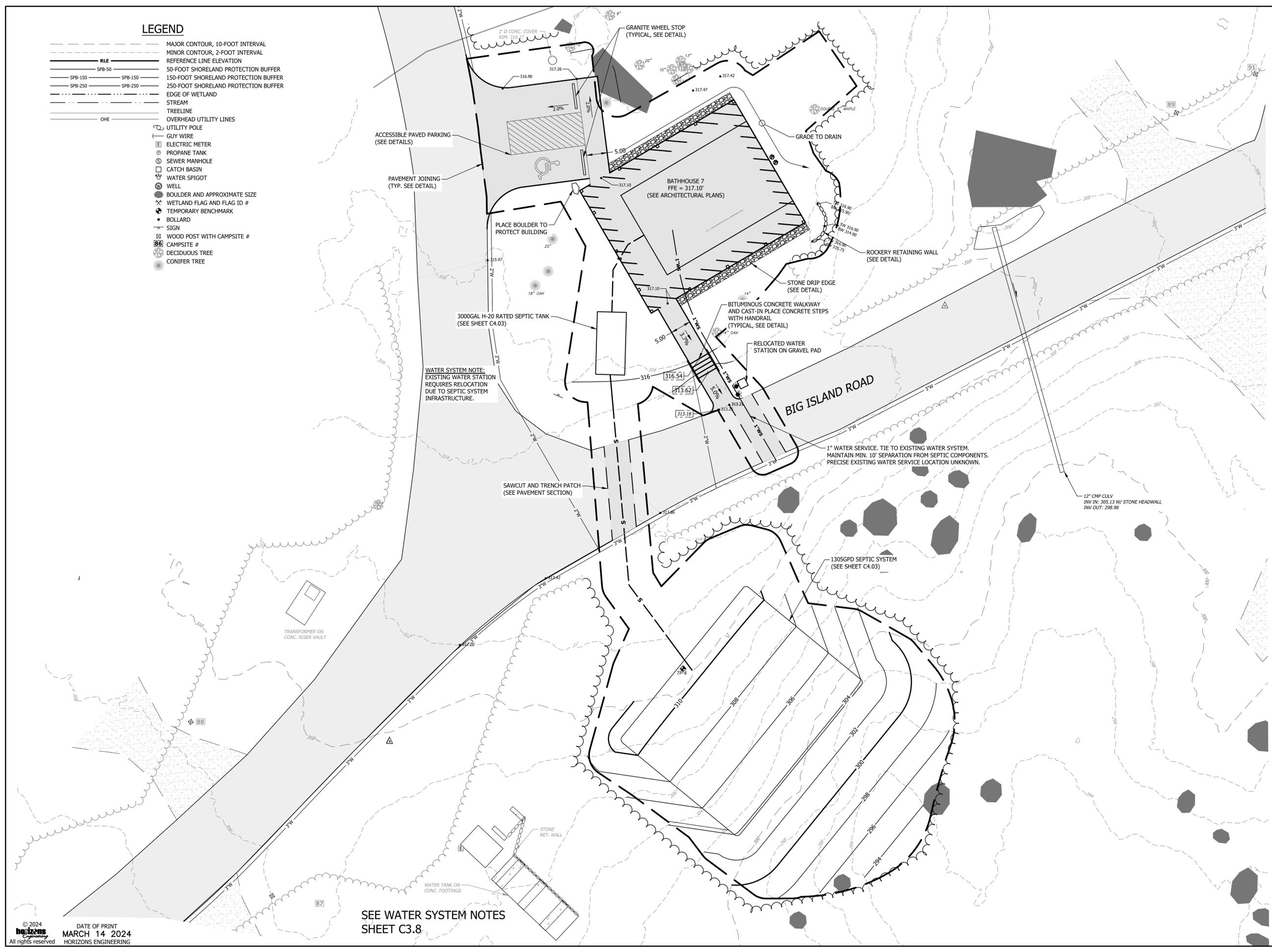
Title
BATHHOUSE 6
DEMOLITION PLAN
GENERAL LEGEND & NOTES
Sheet Number:
C2.07

Project Number: 23045001
File: 220838_base-01_pawtuckaway.dwg

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LEGEND

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- REFERENCE LINE ELEVATION
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- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
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- STREAM
- TREELINE
- OVERHEAD UTILITY LINES
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- ⊞ PROPANE TANK
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SEE WATER SYSTEM NOTES
SHEET C3.8

NH STATE PARKS
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Pawtuckaway State Park
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Issue
100% CONSTRUCTION
Graphic Scale
0 5 10 20
North

Scale: 1" = 10'
Date: March 15, 2024
Drawn By: CJH
Checked By: WTD

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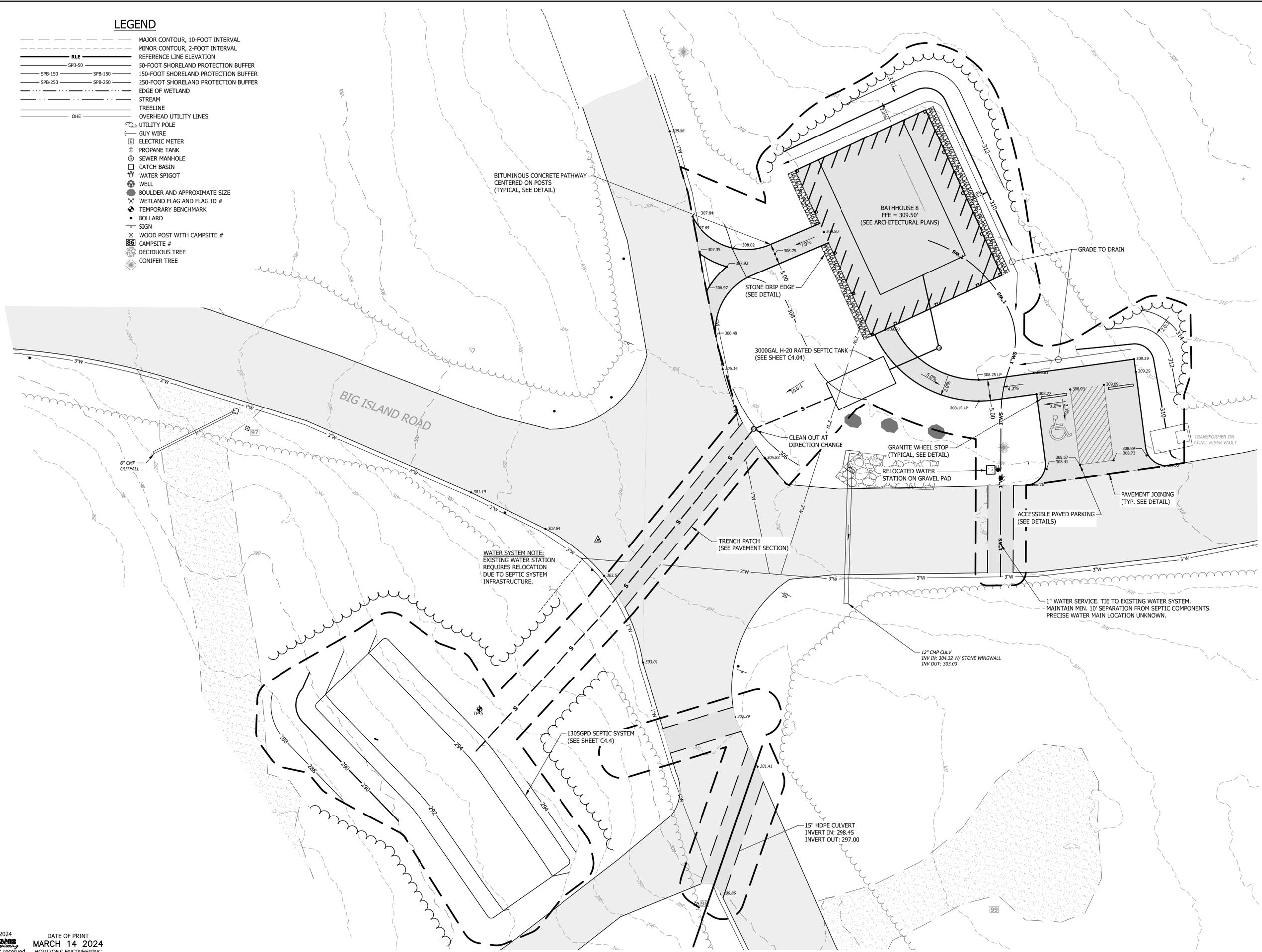
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SITE PLAN
Sheet Number:
C3.03

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

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LEGEND

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- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
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- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
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BITUMINOUS CONCRETE PATHWAY
CENTERED ON POSTS
(TYPICAL, SEE DETAIL)

BATHHOUSE 8
FFE = 309.50'
(SEE ARCHITECTURAL PLANS)

STONE DRIP EDGE
(SEE DETAIL)

3000GAL H-20 RATED SEPTIC TANK
(SEE SHEET C4.04)

CLEAN OUT AT
DIRECTION CHANGE

GRANITE WHEEL STOP
(TYPICAL, SEE DETAIL)

RELOCATED WATER
STATION ON GRAVEL PAD

ACCESSIBLE PAVED PARKING
(SEE DETAILS)

PAVEMENT JOINING
(TYP. SEE DETAIL)

1" WATER SERVICE. TIE TO EXISTING WATER SYSTEM.
MAINTAIN MIN. 10' SEPARATION FROM SEPTIC COMPONENTS.
PRECISE WATER MAIN LOCATION UNKNOWN.

12" CMP CULV
INV IN: 304.32 W/ STONE WINGWALL
INV OUT: 303.03

1305GPD SEPTIC SYSTEM
(SEE SHEET C4.4)

15" HDPE CULVERT
INVERT IN: 298.45
INVERT OUT: 297.00

WATER SYSTEM NOTE:
EXISTING WATER STATION
REQUIRES RELOCATION
DUE TO SEPTIC SYSTEM
INFRASTRUCTURE.

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Graphic Scale
0 5 10 20



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Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
**BATHHOUSE 8
SITE PLAN**

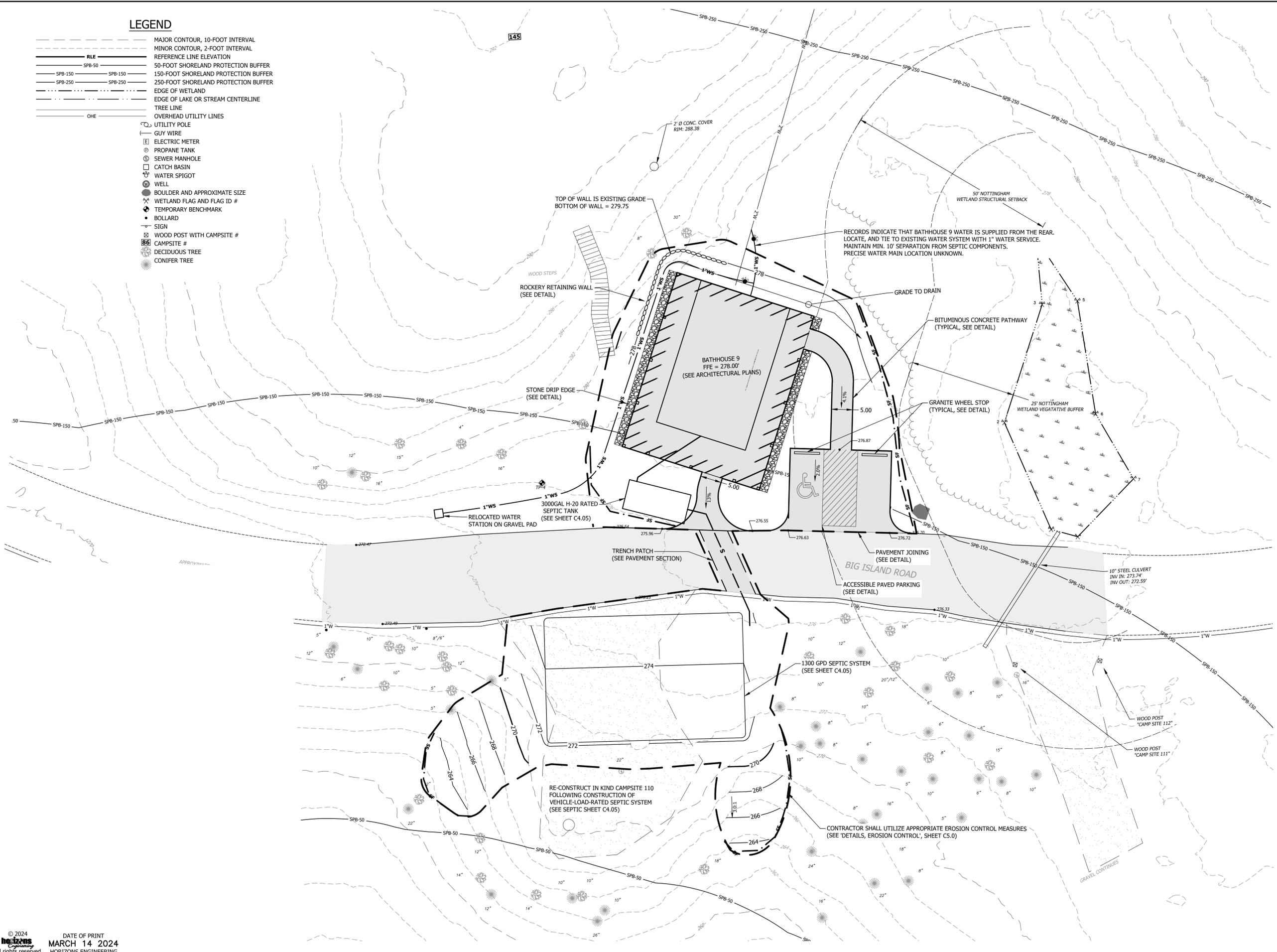
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Project Number: 23045001
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- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- RLE
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- EDGE OF LAKE OR STREAM CENTERLINE
- TREE LINE
- OHE OVERHEAD UTILITY LINES
- UTILITY POLE
- GUY WIRE
- ⊞ ELECTRIC METER
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Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
BATHHOUSE 9
SITE PLAN

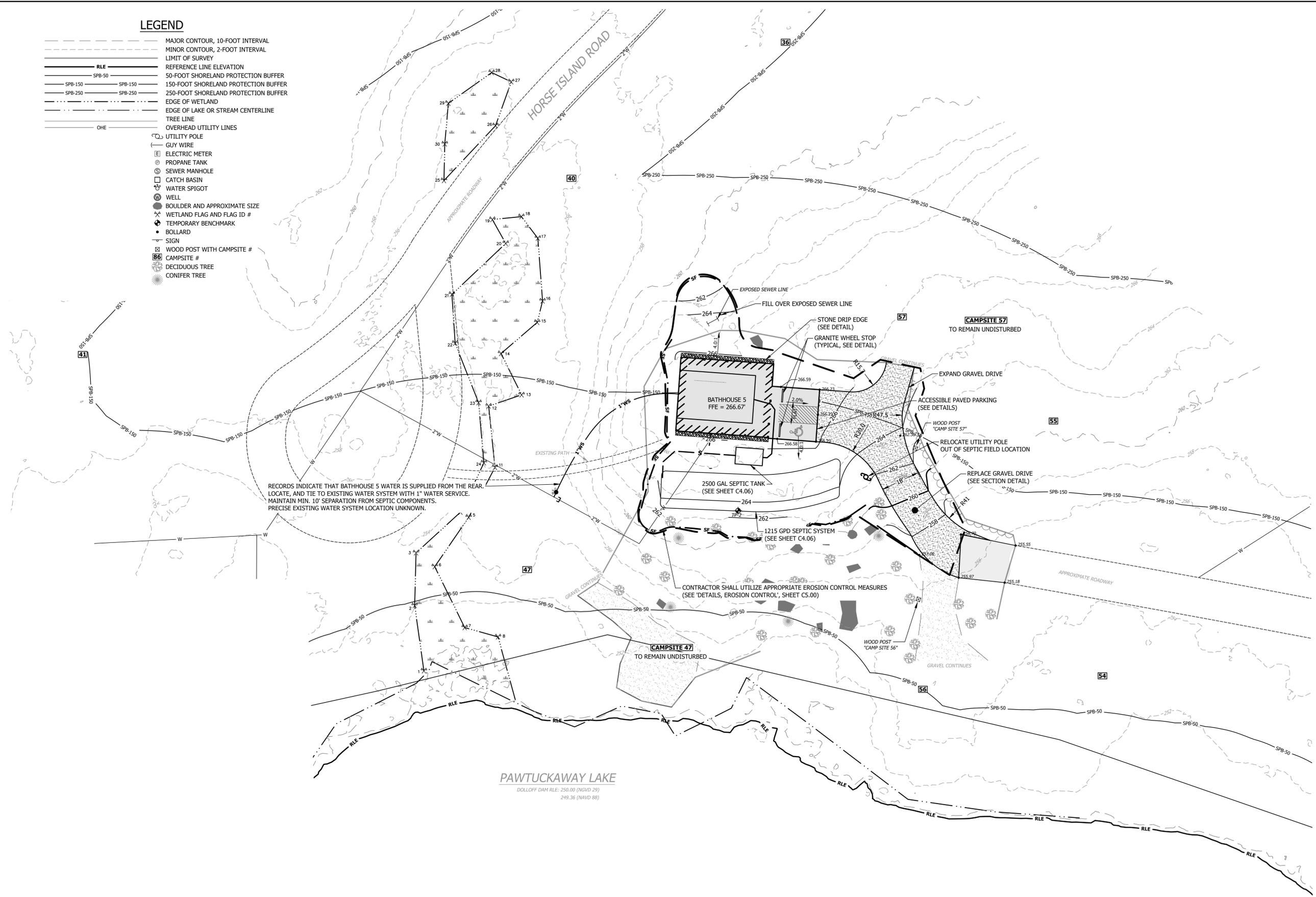
Sheet Number:
C3.05

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- LIMIT OF SURVEY
- RLE — REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
- SPB-150 150-FOOT SHORELAND PROTECTION BUFFER
- SPB-250 250-FOOT SHORELAND PROTECTION BUFFER
- EDGE OF WETLAND
- EDGE OF LAKE OR STREAM CENTERLINE
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Issues:

No.	Description	Date
1	Name	00/00/00

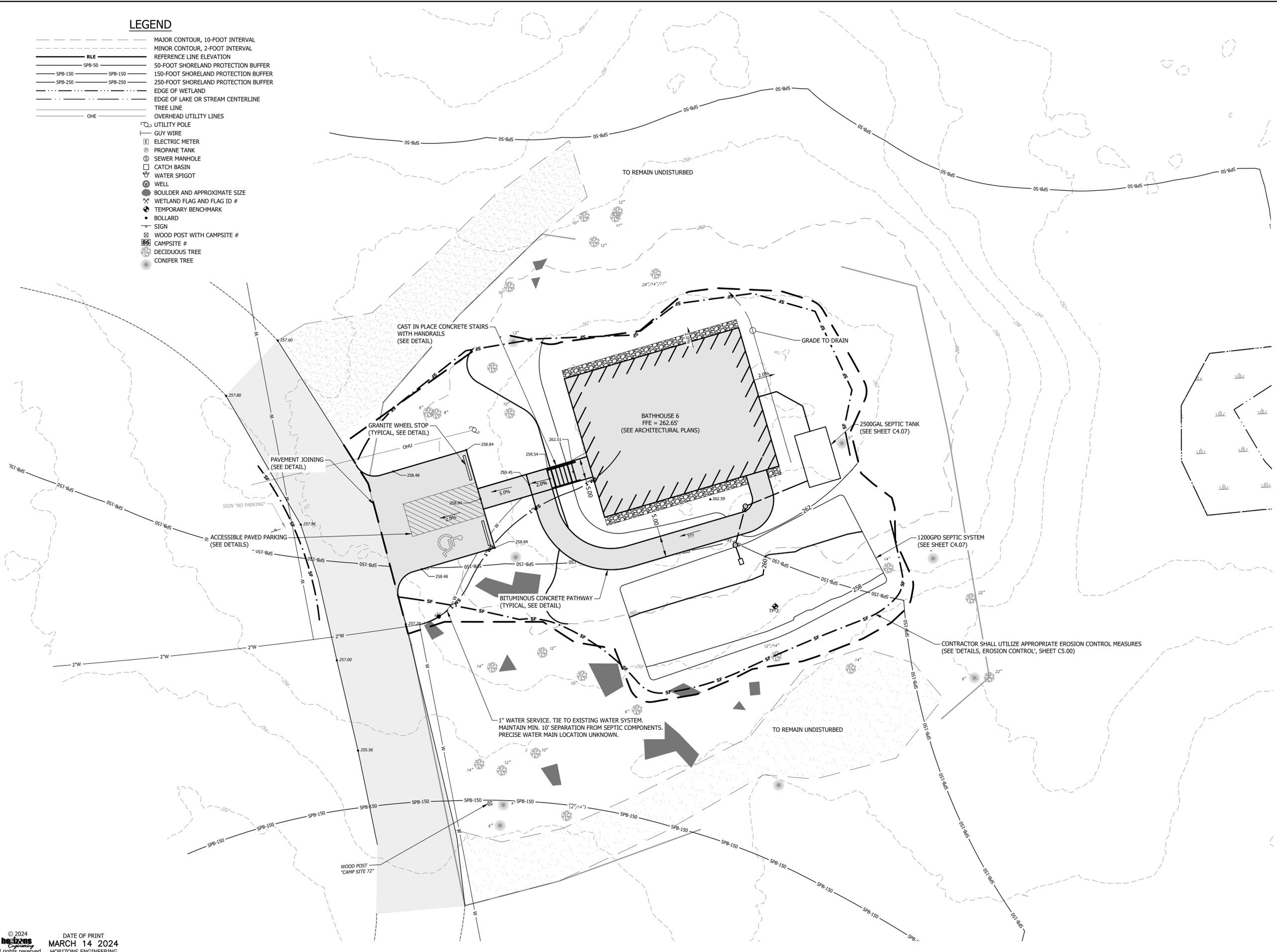
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BATHHOUSE 5
SITE PLAN

Sheet Number:
C3.06

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

LEGEND

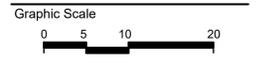
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- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
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1	Name	00/00/00

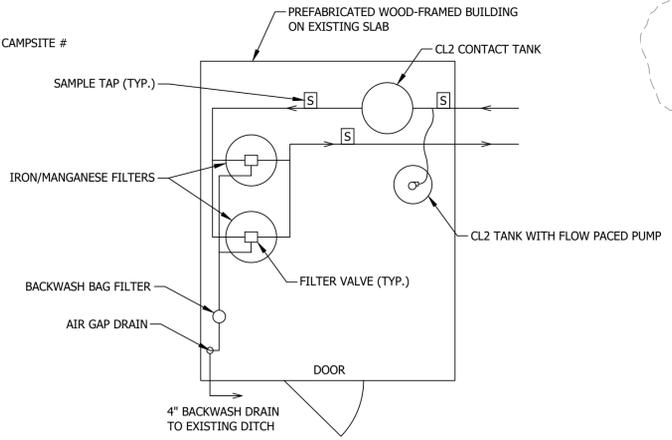
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BATHHOUSE 6
SITE PLAN

Sheet Number:
C3.07

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- REFERENCE LINE ELEVATION
- SPB-50 50-FOOT SHORELAND PROTECTION BUFFER
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IRON AND MANGANESE TREATMENT PLAN SCHEMATIC
NOT TO SCALE



EXISTING WELL HOUSE
EXISTING CONCRETE PAD
SEE WATER SYSTEM NOTES

BASIS OF DESIGN HORSE ISLAND PUMP HOUSE MODIFICATIONS:

1. THE INTENT OF THE WORK IS FOR THE CONTRACTOR TO PROVIDE A COMPLETE IRON AND MANGANESE TREATMENT SYSTEM (DESIGN FLOW 25 GPM) USING CHLORINE ADDITION, GREENSAND PLUS PRESSURE FILTERS IN PARALLEL, BACKWASH BAG FILTERS, PIPING, VALVES, PRESSURE GAUGES, FLOW MEASUREMENT DEVICES, AND ANCILLARY MATERIALS AND EQUIPMENT AS REQUIRED TO PROVIDE A FUNCTIONAL SYSTEM THAT MEETS THE REQUIREMENT AS SPECIFIED HEREIN. IRON AND MANGANESE TREATMENT SYSTEM SHALL BE A COMPLETE TREATMENT SYSTEM, MEET NHDES WATER QUALITY STANDARDS (ENV-DW 406 DESIGN STANDARDS FOR NON-COMMUNITY SYSTEMS), AND MEET THE DESIGN INTENT.
2. THE SYSTEM SHALL BE DESIGNED AND MANUFACTURED BY A VENDOR WORKING IN THE WATER TREATMENT INDUSTRY FOR A MINIMUM OF 5 YEARS THAT CAN DEMONSTRATE SUCCESSFUL COMPLETION OF PROJECTS OF A SIMILAR SCOPE. COMPLETE SHOP DRAWINGS, EQUIPMENT AND MATERIAL SPECIFICATION, AND PROCESS DESCRIPTION SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. CONTRACTOR TO PROVIDE COMPLETE SUBMITTALS ON ALL PROCESS EQUIPMENT, PIPING, VALVES, WATER METERS, AND CHEMICAL PUMPS FOR REVIEW AND APPROVAL BY THE OWNER'S ENGINEER.
3. INSTALL NEW IRON AND MANGANESE TREATMENT SYSTEM IN NEW 8' X 10' PRE-FABRICATED WOOD-FRAMED BUILDING LOCATED ADJACENT TO WELL HOUSE ON EXISTING 10'X10' CONCRETE PAD. TREATMENT SYSTEM TO INCLUDE 2 - 21" DIAMETER GREENSAND FILTERS IN PARALLEL, CHLORINE INJECTION ADDITION, AND BAG FILTER FOR BACKWASH FILTER WATER. REFER TO DRAWING FOR GENERAL LAYOUT SCHEMATIC OF EQUIPMENT AND PIPING.
4. FILTERS TO BE PENTAIR COMPOSITE PRESSURE VESSELS 21" DIAMETER BY 62" HIGH WITH BASE, OR APPROVED EQUAL. TO INCLUDE MAXIMUM OPERATING PRESSURE 150 PSI, POLYETHYLENE INNER SHELL, AND TESTED AND CERTIFIED NSF STD. 61.
5. PRESSURE FILTER CONTROL VALVE FOR EACH FILTER, CLACK WATER SPECIALIST CONTROL VALVE MATCHED TO THE APPLICATION, OR APPROVED EQUAL, 1 1/2-INCH TOP MOUNT, EPOXY COATED LEAD-FREE BRASS VALVE BODY, BUILT IN FLOW METER, SOLID STATE MICROPROCESSOR, FRONT PANEL DISPLAY, AND FULLY PROGRAMMABLE, OR APPROVED EQUAL.
6. CHEMICAL PUMPS FOR HYPOCHLORITE INJECTION USE FLOW PAGED STENNER PUMPS, OR APPROVED EQUAL.
7. CHEMICAL TANKS TO BE STENNER POLYETHYLENE, 30-GALLON TANK, OR APPROVED EQUAL AND COMPATIBLE WITH PUMP SELECTED.
8. FILTER MEDIA TO BE GREENSAND PLUS WITH 12" ANTHRACITE TOP LAYER, OR AN APPROVED EQUAL.
9. PROCESS PIPING TO BE 1 1/2" AND 2"-INCH PVC, SCHEDULE 80, GLUED JOINTS.
10. PREFERRED ROUTING OF THE EXISTING PIPING FROM THE WELL HOUSE TO THE NEW TREATMENT BUILDING SHALL DETERMINED BY THE CONTRACTOR IN COORDINATION WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF THE WORK. THIS WILL ALSO APPLY TO THE BACKWASH DRAIN LINE.
11. BACKWASH WATER WILL BE USING UNTREATED WELL WATER OFF THE SYSTEM PRESSURE.
12. SAMPLE TAPS TO BE INSTALLED ON RAW WATER INFLOW PRIOR TO TREATMENT, BETWEEN CHLORINE CONTACT TANK AND GREENSAND FILTER, AND ON FINISHED WATER AFTER TREATMENT.

NH STATE PARKS

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Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
WATER SYSTEM SITE PLAN & NOTES

Sheet Number:
C3.08

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

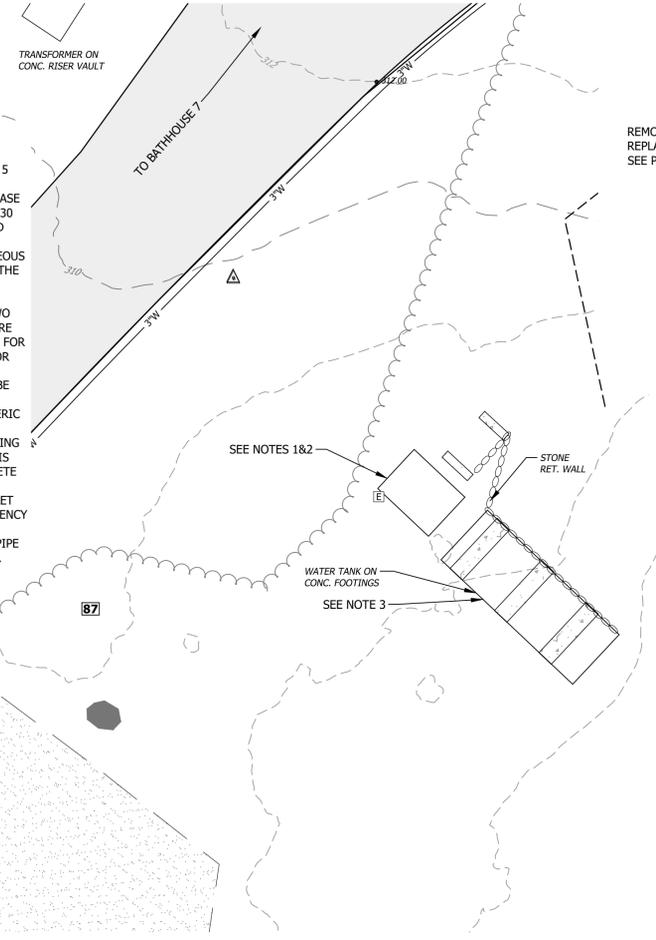
BASIS OF DESIGN BIG ISLAND PUMP HOUSE MODIFICATIONS:

1. REMOVE AND REPLACE 2 EXISTING BOOSTER PUMPS WITH GOULDS 10SVS, 5 STAGE VERTICAL, NON-SELF PRIMING, IN-LINE, CENTRIFUGAL PUMPS, OR APPROVED EQUAL. IMPELLERS TO BE STAINLESS STEEL. PUMP HEAD AND BASE TO BE CAST IRON. AC MOTOR TO BE 5 HP, 60 GPM AT 180 TDH, 3 PHASE, 230 VOLT, OPERATING AT 3450 RPM. CONTRACTOR TO SUBMIT PUMP SELECTED FOR REVIEW AND APPROVAL OF THE ENGINEER.
2. WORK INCLUDES ALL PIPING, VALVES, UNIONS, FITTINGS AND MISCELLANEOUS MATERIALS FOR A COMPLETE INSTALLATION THAT MEETS THE INTENT OF THE PROJECT DOCUMENTS.
3. REMOVE AND REPLACE EXISTING CONTROL PANEL WITH NEW UL LISTED CONTROL PANEL. THE CONTROLS WILL PROVIDE THE CONTROL OF THE TWO BOOSTER PUMPS, TO INCLUDE H-O-A PUMP CONTROLS, NEMA 12 ENCLOSURE WITH STAINLESS STEEL HARDWARE, 230 VOLT SINGLE PHASE POWER, VFD FOR EACH BOOSTER PUMP, AND INDIVIDUAL THROUGH DOOR DISCONNECTS FOR EACH PUMP. PUMPS WILL OPERATE IN A LEAD LAG MANNER WITH ALTERNATION AFTER EACH PUMPING CYCLE. PANEL SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL.
4. REMOVE AND REPLACE EXISTING 7500-GALLON ABOVE GROUND ATMOSPHERIC STORAGE TANK WITH NEW STEEL STORAGE TANK OF A SIMILAR MANUFACTURER AND MODEL. DIAMETER OF TANK IS TO MATCH THE EXISTING TANK SO THAT THE EXISTING CONCRETE SADDLES CAN BE REUSED. TANK IS TO BE CERTIFIED NSF 61 FOR USE WITH POTABLE WATER. SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL.
5. TANK SHALL HAVE A SEPERATE INLET AT THE TOP OF THE TANK AND OUTLET AT THE BOTTOM OF THE TANK. A SEPERATE 2-INCH FILL PORT FOR EMERGENCY BULK WATER DELIVERY, SCREENED VENT AT THE TOP OF THE TANK, AND MECHANICAL FLOATS CONTROLLING A MOTORIZED VALVE ON THE INLET PIPE OF THE TANK. ON/OFF FLOATS WILL BE SET A MINIMUM OF 2-FEET APART.



REMOVE AND REPLACE EXISTING STEEL TANK

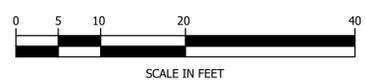
BIG ISLAND PUMP HOUSE

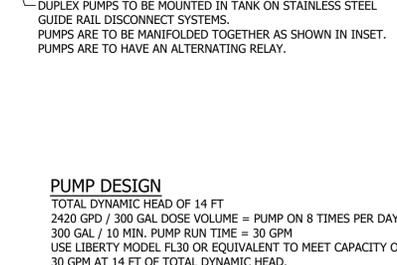
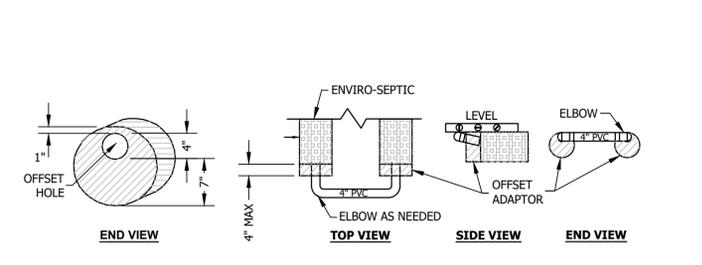
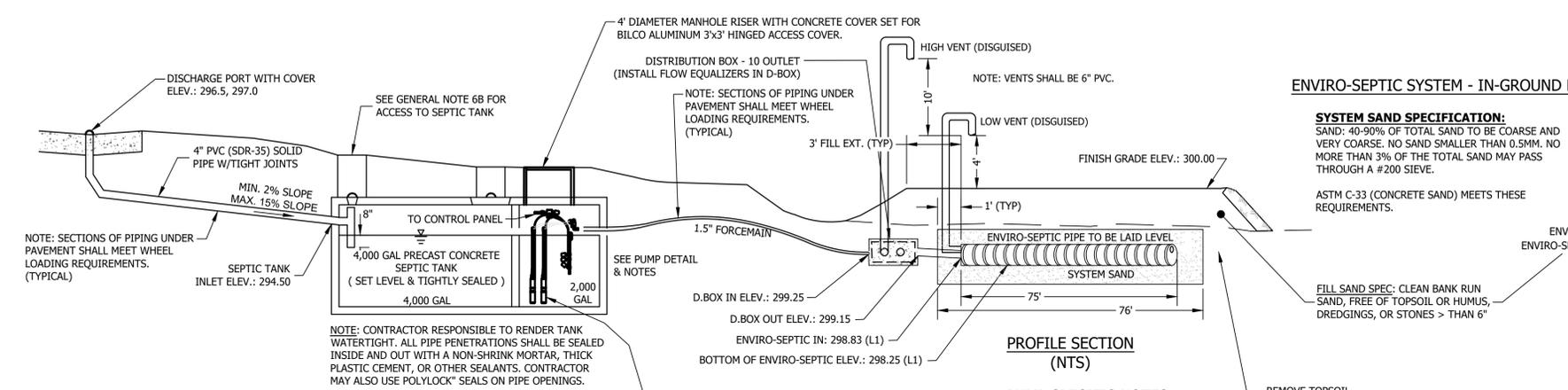


REMOVE EXISTING PUMP CONTROL PANEL
REPLACE WITH NEW VFD CONTROL PANEL.
SEE PLAN NOTES THIS SHEET.



REMOVE AND REPLACE EXISTING PRESSURE PUMPS WITH NEW VFD BOOSTER PUMPS.
SEE PLAN NOTES THIS SHEET.

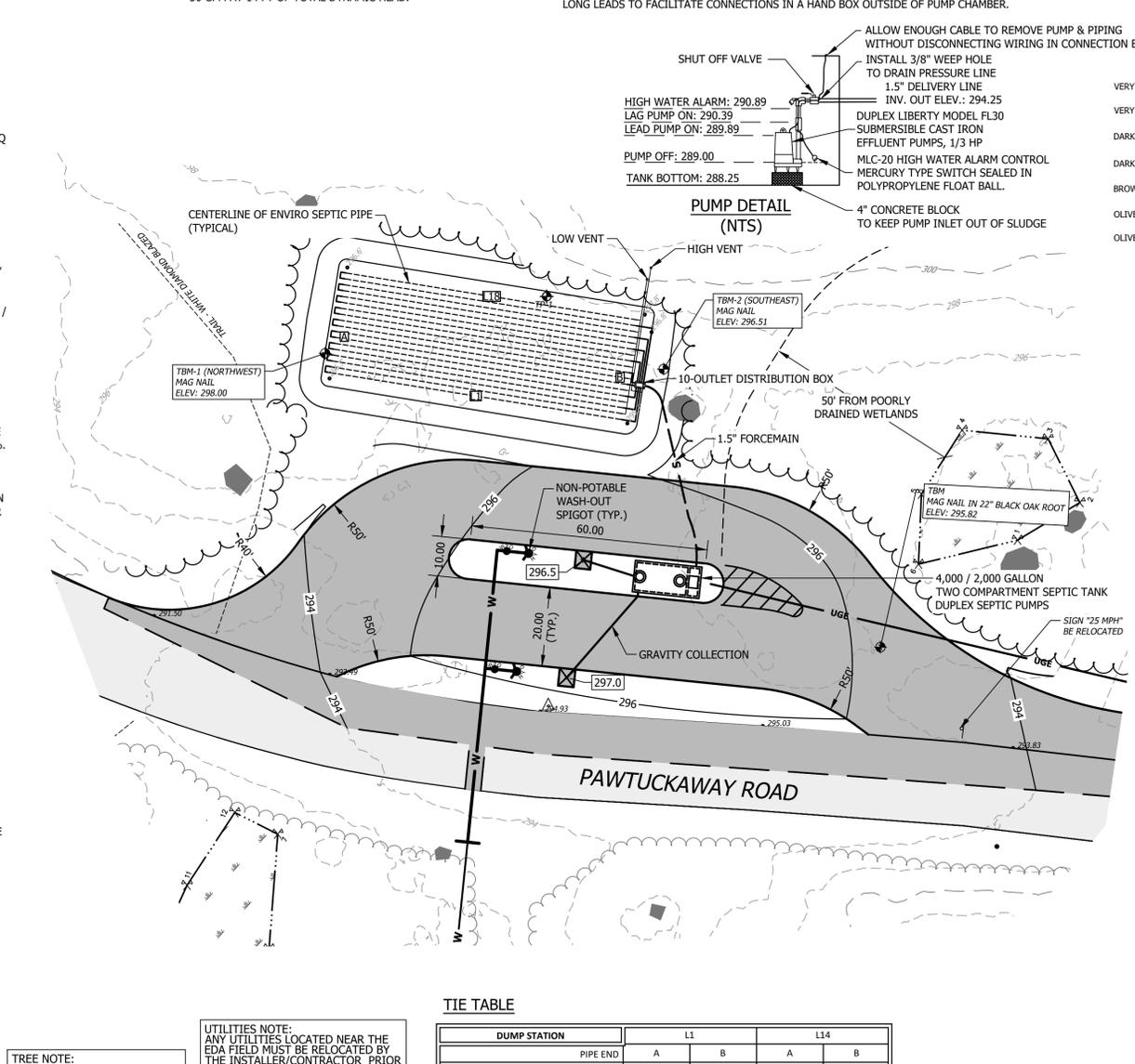




- PUMP SPECIFIC NOTES:**
- PUMP STORAGE CHAMBER TO BE RENDERED WATERTIGHT.
 - UNDERGROUND WIRING TO BE PROPERLY SIZED FOR DISTANCE OF RUN AND PUMP SPECIFIED BY LICENSED ELECTRICIAN. WIRE TO BE SLEEVED IN PVC PIPE & BACKFILLED WITH CARE.
 - PROVIDE 4,000/2,000 GAL TWO-COMPARTMENT COMBINATION TANK AS MANUFACTURED BY PHOENIX PRECAST OR EQUIVALENT.
 - FURNISH DUPLEX LIBERTY FL30 1/3 HP PUMP OR EQUIVALENT SUBMERSIBLE PUMP & INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ADJUST MANUAL ON/OFF SWITCH AS NECESSARY TO REFLECT THE DISTANCES SHOWN ON PUMP DETAIL. THESE DISTANCES ALLOW FOR 300 GAL/DOSE PRODUCED. REFLECTS 28.1 GAL/INCH OF VOLUME IN CHAMBER.
 - DISCHARGE LINE FROM PUMP CHAMBER TO LEACHFIELD SHALL BE 1.5" HDPE FLEXIBLE PIPE OR EQUIVALENT.
 - PROVIDE PEDESTAL MOUNTED, LOCKABLE NEMA-4 CONTROL PANEL WITH AUDIBLE AND LIGHTED ALARMS AND POWER SHUTOFF.
 - DUPLEX PUMPS TO BE MOUNTED IN TANK ON STAINLESS STEEL GUIDE RAIL DISCONNECT SYSTEMS.
 - PUMPS ARE TO BE MANIFOLDED TOGETHER, AND SHALL BE EQUIPPED WITH AN ALTERNATING RELAY.
 - ALL INTERIOR METAL COMPONENTS INCLUDING RAILS, AND FLOAT CHAINS SHALL BE STAINLESS STEEL.
 - NO ELECTRICAL SPICES SHALL BE PERMITTED WITHIN THE PUMP CHAMBER. PUMPS SHALL BE FURNISHED WITH EXTRA LONG LEADS TO FACILITATE CONNECTIONS IN A HAND BOX OUTSIDE OF PUMP CHAMBER.

GENERAL NOTES

- THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION
- CALL DIG-SAFE PRIOR TO INSTALLATION.
- SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
- TOPOGRAPHY AND SURVEY INFORMATION PROVIDED BY HORIZONS ENGINEERING, INC. OF LITTLETON, NEW HAMPSHIRE. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
- ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY INFILTRATOR WATER TECHNOLOGIES / PRESBY ENVIRONMENTAL, INC., WHITEFIELD, NH.
- COVER OVER PROPOSED SYSTEM:
 - 18" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE BATHHOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HDPE RISER AND COVER TO BE SET OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE. RISER AND COVERS SHALL EXTEND TO FINISHED GRADE.
 - EFFLUENT DISPOSAL AREA: MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - MAINTAIN 2' OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE ENVIRO-SEPTIC PIPE OR THE PIPE SHALL BE INSULATED.
- IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS. IF CONTRACTOR ENCOUNTERS EXISTING SEPTIC TANK OR MATERIALS, HE SHALL REMOVE THEM OFF SITE WITH RESPECT TO CURRENT LOCAL AND STATE REGULATIONS.
- ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
- FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
- ALL DISTURBED AREA SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE FROM TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - USE BIODEGRADABLE DETERGENTS.
 - PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.
 - WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
- PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE MADE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT OR FLEXIBLE JOINT CONNECTORS.
- THE DISTRIBUTION BOX SHALL HAVE S.S.I. INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
- THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
- THE SITE IS NOT LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.
- WETLANDS ON THE PROJECT SITE HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06. THERE ARE POORLY DRAINED JURISDICTIONAL WETLANDS WITHIN 75' OF, BUT GREATER THAN 50' FROM, THE SYSTEM.
- THERE ARE NO KNOWN BURIAL SITES, BURIAL GROUNDS, OR CEMETERIES WITHIN 25' OF THE SYSTEM OR ON THE PROPERTY.



TEST PIT #1

DEPTH	SOIL TYPE	REMARKS
0 - 2"	VERY DARK BROWN	FIBRIC ORGANIC MATERIALS, WEAK FINE GRANULAR, V. FRIABLE
2 - 4"	VERY DARK BROWN	FINE SANDY LOAM, WEAK FINE GRANULAR, V. FRIABLE.
4 - 6"	DARK YELLOWISH BROWN	FINE SANDY LOAM, WEAK FINE SUBANG BLOCKY, FRIABLE.
6 - 14"	DARK YELLOWISH BROWN	FINE SANDY LOAM, WEAK FINE SUBANG BLOCKY, FRIABLE.
14 - 19"	BROWN	GRAVELLY FINE SANDY LOAM, WEAK MEDIUM SUBANG. BLOCKY, FRIABLE
19 - 25"	OLIVE BROWN	GRAVELLY LOAMY FINE SAND, MOD. MED. SUBANG. BLOCKY, FRIABLE
25 - 72"	OLIVE BROWN	GRAVELLY LOAMY FINE SAND, MASSIVE, FIRM

DUMPSTATION
 E.S.H.W.T.: NONE TO DEPTH, 72"
 WATER OBSERVED: NONE
 RESTRICTIVE LAYER: 25"
 LEDGE ENCOUNTERED: NONE TO DEPTH, 72"
 INSPECTED BY: ADAM DOIRON, DOIRON ENVIRONMENTAL
 DATE: 3 OCTOBER 2023

PERCOLATION TEST
 DEPTH: 18"
 RATE: 8 MIN./INCH

SOILS TYPE: 343C CANTON GRAVELLY FINE SANDY LOAM, EXTREMELY BOULDERY
 REFERENCE: NRCS WEI SOIL SURVEY, ROCKINGHAM COUNTY NH (NH015)

VENT REQUIREMENTS AND PLACEMENT

WHERE SHOWN, LOW AND HIGH VENTS ARE REQUIRED TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE SYSTEM. NO ADDITIONAL VENTS MAY BE LOCATED BETWEEN THE HIGH VENT AND LOW VENT. HIGH VENTS MUST PROVIDE AT LEAST THE SAME FLOW CAPACITY AS LOW VENTS; CONNECTIONS WITHIN THE SYSTEM MUST ALSO HAVE SIMILAR CAPACITIES. PER THE MANUFACTURER'S REQUIREMENTS, ALL VENTS SHALL HAVE A MINIMUM DIAMETER OF 6 INCHES. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTER AT THE END OF EACH SERIAL SYSTEM OR BED.

VENT LOCATIONS SHOWN ARE APPROXIMATE AND CAN BE RELOCATED SO LONG AS THEY ARE LAID LEVEL OR PITCHED BACK TO THE EDA. VENTS SHOULD BE PLACED IN LOCATIONS WHERE AESTHETIC IMPACT IS MINIMAL, AS NECESSARY, ADD SHRUBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED; USE "MUSHROOM" STYLE VENT COVERS OR VENT COVERS THAT CAMOUFLAGE THE EDA VENT.

TO ENSURE PROPER VENTILATION OF THE SYSTEM, NO EFFLUENT FILTER SHALL BE INSTALLED IN THE SYSTEM. PRIOR TO BACKFILLING THE SYSTEM, CONTRACTOR SHALL PERFORM A SMOKE TEST AT THE D-BOX AND LOW VENT TO ENSURE THAT AIR CAN CIRCULATE THROUGH THE EDA, SEPTIC TANK AND HOUSE VENT. IF NO CLEAR SIGNS OF AIR FLOW ARE OBSERVED, CONTRACTOR SHALL CONTACT DESIGNER OR SYSTEM MANUFACTURER BEFORE BACKFILLING SYSTEM.



DIRECTIONS: FROM NH-101 EXIT 5, NORTH ON NH-107. AFTER 0.6MI, LEFT TO REMAIN ON NH-107. AFTER 0.1MI, RIGHT ONTO NH-156N. AFTER 2.0MI, LEFT ON MOUNTAIN ROAD. AFTER 2.0MI LEFT ON PAWTUCKAWAY ROAD. APPROX 2.1MI TO SITE ON THE LEFT.

DESIGN INTENT
 BOTTOM OF ENVIRO-SEPTIC PIPE TO BE SET AT ELEV.: 298.25
 THIS IS APPROXIMATELY AT GRADE AT THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

SIZING NOTE
 ALL RV AND POPUP SITES NOTED BELOW ARE ALSO SERVED BY FIXED COMFORT STATIONS / BATHHOUSES. RV/POPUP SITES HAVE NOT BEEN SUBTRACTED FROM THE SITE TOTALS FOR THE BATHHOUSES. NO SITES ARE SERVED BY TWO/THREE-WAY HOOKUPS. POPUP SITE CALCULATION REDUCED BY 50% TO ACCOUNT FOR SITE USE BY TENT-BASED CAMPERS AND POPUP TRAILS NOT EQUIPPED WITH SANITARY FACILITIES.

EFFLUENT DISPOSAL AREA
 FULLSIZE RV SITES SERVED: 59
 POPUP TRAILER SITES SERVED: 62
 RV + POPUP = 121 SITES SERVED
 REQUIRED SEWAGE LOADING: 121 SITES x 20 GPD/SITE = 2,420 GPD
 DESIGN SEWAGE LOADING = 2,450 GPD
 PERCOLATION RATE: 8 MINS / INCH 55LF/100GPD
 ENVIRO-SEPTIC REQUIRED = 1,348 LF
 ENVIRO-SEPTIC PROVIDED = 1,350 LF (18 ROWS x 75 LF/ROW)
 ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 297.7
 BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 298.25

SEPTIC TANK
 2000 GAL + 0.7 x DAILY FLOW = 3,715 GAL
 (USE NEXT LARGER COMMERCIAL SIZE)
USE 4000 GAL TANK WITH 2000GAL PUMP CHAMBER

BENCHMARKS USED FOR THE POINTS TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED. NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.

ENVIRO-SEPTIC SYSTEM PUMPED, IN-GROUND BED CAMPGROUND DESIGN (2,420 GPD)

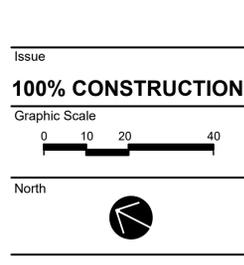
NEW HAMPSHIRE
 DPMT OF NATURAL & CULTURAL RESOURCES
 172 PEMBROKE ROAD
 CONCORD, NH 03301

PREVIOUS APPROVAL #: NONE

PAWTUCKAWAY ROAD
 NOTTINGHAM, NEW HAMPSHIRE
 TAX MAP: 76 PARCEL: 2

COUNTY: ROCKINGHAM
 SUBDIVISION NAME: n/a
 SUBDIVISION APPROVAL: EXEMPT >5AC

NH STATE PARKS
 Campground Expansion Project PII
 Pawtuckaway State Park
 7 Pawtuckaway Road
 Nottingham, NH
 03290



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
DUMP STATION
 I.S.D.S. PLAN AND DETAILS

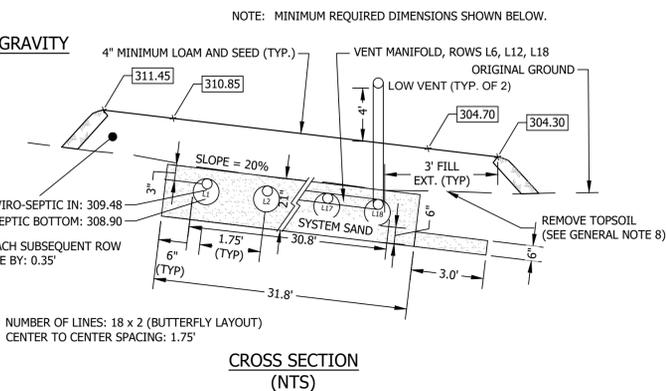
Sheet Number:
C4.02

Project Number: 23045001
 File: 220838_pawtuckaway_final-02b.dwg

ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY

SYSTEM SAND SPECIFICATION:
SAND: 40-90% OF TOTAL SAND TO BE COARSE AND VERY COARSE. NO SAND SMALLER THAN 0.5MM. NO MORE THAN 3% OF THE TOTAL SAND MAY PASS THROUGH A #200 SIEVE.
ASTM C-33 (CONCRETE SAND) MEETS THESE REQUIREMENTS.

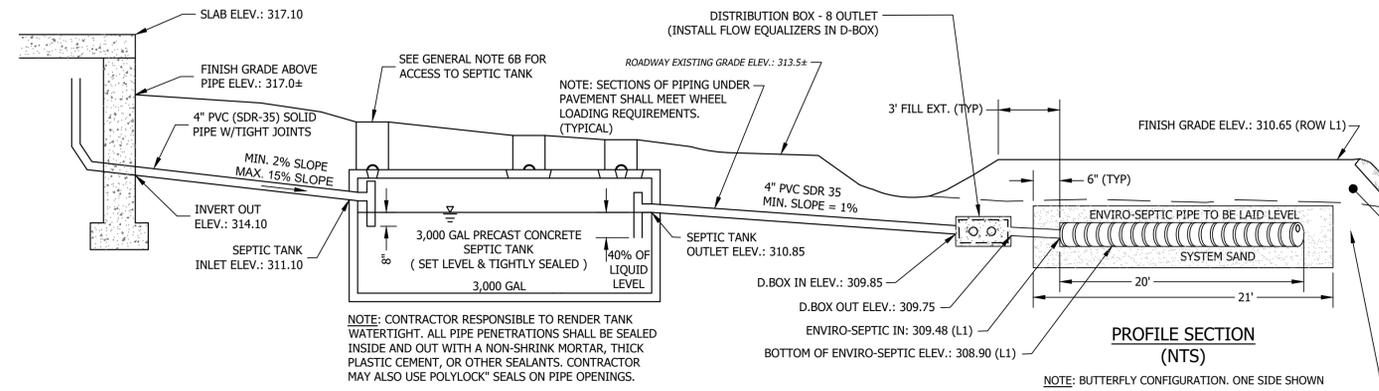
FILL SAND SPEC: CLEAN BANK RUN SAND, FREE OF TOPSOIL OR HUMUS, DREDGINGS, OR STONES > THAN 6"



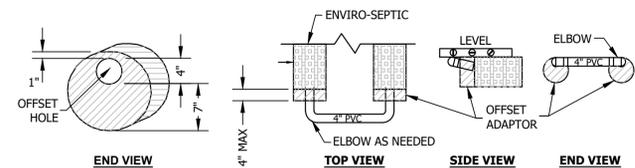
CROSS SECTION (NTS)

PIPE TABLE

PIPE	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18
BOTTOM OF PIPE	308.90	308.55	308.20	307.85	307.50	307.15	306.80	306.45	306.10	305.75	305.40	305.05	304.70	304.35	304.00	303.65	303.30	302.95
TOP OF PIPE	309.90	309.55	309.20	308.85	308.50	308.15	307.80	307.45	307.10	306.75	306.40	306.05	305.70	305.35	305.00	304.65	304.30	303.95
MINIMUM FINISHED GRADE	310.65	310.30	309.95	309.60	309.25	308.90	308.55	308.20	307.85	307.50	307.15	306.80	306.45	306.10	305.75	305.40	305.05	304.70
MEAN EXISTING GRADE	309.65	309.36	309.02	308.53	308.07	307.59	307.04	306.45	305.88	305.33	304.86	304.37	303.88	303.40	302.83	302.21	301.57	301.01
RESTRICTIVE AT:	306.32	306.03	305.69	305.20	304.74	304.26	303.71	303.12	302.55	302.00	301.53	301.04	300.55	300.07	299.50	298.88	298.24	297.68



PROFILE SECTION (NTS)



ENVIRO-SEPTIC OFFSET ADAPTOR DETAIL (NTS)

GENERAL NOTES

- THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION
- CALL DIG-SAFE PRIOR TO INSTALLATION.
- SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
- TOPOGRAPHY AND SURVEY INFORMATION PROVIDED BY HORIZONS ENGINEERING, INC. OF LITTLETON, NEW HAMPSHIRE. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
- ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY INFILTRATOR WATER TECHNOLOGIES / PRESBY ENVIRONMENTAL, INC., WHITEFIELD, NH.
- COVER OVER PROPOSED SYSTEM:
 - 18" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE BATHHOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HDPE RISER AND COVER TO BE SET OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE. RISER AND COVERS SHALL EXTEND TO FINISHED GRADE.
 - EFFLUENT DISPOSAL AREA: MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - MAINTAIN 2" OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE ENVIRO-SEPTIC PIPE OR THE PIPE SHALL BE INSULATED.
- IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS. IF CONTRACTOR ENCOUNTERS EXISTING SEPTIC TANK OR MATERIALS, HE SHALL REMOVE THEM OFF SITE WITH RESPECT TO CURRENT LOCAL AND STATE REGULATIONS.
- ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
- FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
- ALL DISTURBED AREA SHALL BE LOAMED, SEED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE FROM TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - USE BIODEGRADABLE DETERGENTS.
 - PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.
 - WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
- PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE MADE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT OR FLEXIBLE JOINT CONNECTORS.
- THE DISTRIBUTION BOX SHALL HAVE S.S.I. INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
- THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
- THE SITE IS NOT LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.
- WETLANDS ON THE PROJECT SITE HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06. THERE ARE NO JURISDICTIONAL WETLANDS ON WITHIN 75' OF THE SYSTEM.
- THERE ARE NO KNOWN BURIAL SITES, BURIAL GROUNDS, OR CEMETERIES WITHIN 25' OF THE SYSTEM OR ON THE PROPERTY.

TREE NOTE:
ALL TREES WITHIN 10 FEET OF PROPOSED EDA TO BE REMOVED AND DISPOSED OF OFF-SITE BY THE INSTALLER/CONTRACTOR.

UTILITIES NOTE:
ANY UTILITIES LOCATED NEAR THE EDA FIELD MUST BE RELOCATED BY THE INSTALLER/CONTRACTOR PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

TIE TABLE

BATHHOUSE 7 -- FIELD AA	L1				L18			
	PIPE END	A	B	A	B	A	B	
TBM-1 (NORTH)	52.9	34.3	29.1	16.4				
TBM-2 (WEST)	37.7	36.1	66.5	65.5				
BATHHOUSE 7 -- FIELD BB	L1				L18			
	PIPE END	A	B	A	B	A	B	
TBM-1 (NORTH)	29.1	16.4	28.2	14.7				
TBM-2 (WEST)	37.7	48.4	66.5	73.0				

LOT LOADING:
PAWTUCKAWAY STATE PARK IS APPROXIMATELY 5,500 ACRES. PROJECT MEETS LOT LOADING.

DESIGN INTENT
BOTTOM OF ENVIRO-SEPTIC PIPE (L1) TO BE SET AT ELEV.: 308.90 THIS IS APPROXIMATELY 9 (NINE) INCHES BELOW ORIGINAL GROUND AT THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

EFFLUENT DISPOSAL AREA

CAMPSITES SERVED: 29
REQUIRED SEWAGE LOADING: 29 x 45 GPD = 1,305 GPD
DESIGN SEWAGE LOADING = 1,305 GPD
PERCOLATION RATE: 6 MINS / INCH
ENVIRO-SEPTIC REQUIRED = 658 LF
ENVIRO-SEPTIC PROVIDED = 720 LF (36 ROWS x 20 LF/ROW)
ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 310.16 (@ L1)
BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 308.90

SEPTIC TANK

2 x DAILY FLOW = 2610GAL (USE NEXT LARGER COMMERCIAL SIZE)
USE 3000 GAL TANK

BENCHMARKS USED FOR TIE POINTS
TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED.
NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.

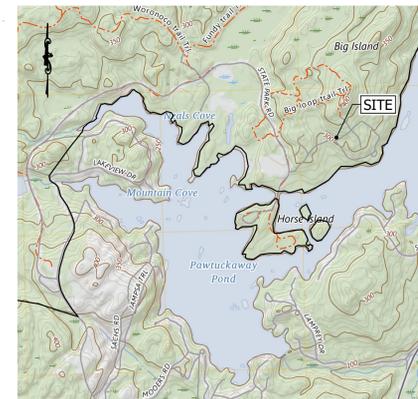
VENT REQUIREMENTS AND PLACEMENT

WHERE SHOWN, LOW AND HIGH VENTS ARE REQUIRED TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE SYSTEM. NO ADDITIONAL VENTS MAY BE LOCATED BETWEEN THE HIGH VENT AND LOW VENT. HIGH VENTS MUST PROVIDE AT LEAST THE SAME FLOW CAPACITY AS LOW VENTS; CONNECTIONS WITHIN THE SYSTEM MUST ALSO HAVE SIMILAR CAPACITIES. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTOR AT THE END OF EACH SERIAL SYSTEM OR BED.

VENT LOCATIONS SHOWN ARE APPROXIMATE AND CAN BE RELOCATED SO LONG AS THEY ARE LAID LEVEL OR PITCHED BACK TO THE EDA. VENTS SHOULD BE PLACED IN LOCATIONS WHERE AESTHETIC IMPACT IS MINIMAL. AS NECESSARY, ADD SHRUBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED; USE "MUSHROOM" STYLE VENT COVERS OR VENT COVERS THAT CAN CAMOUFLAGE THE EDA VENT.

TO ENSURE PROPER VENTILATION OF THE SYSTEM, NO EFFLUENT FILTER SHALL BE INSTALLED IN THE SYSTEM PRIOR TO BACKFILLING THE SYSTEM. CONTRACTOR SHALL PERFORM A SMOKE TEST AT THE D-BOX AND LOW VENT TO ENSURE THAT AIR CAN CIRCULATE THROUGH THE EDA, SEPTIC TANK AND HOUSE VENT. IF NO CLEAR SIGNS OF AIR FLOW ARE OBSERVED, CONTRACTOR SHALL CONTACT DESIGNER OR SYSTEM MANUFACTURER BEFORE BACKFILLING SYSTEM.



LOCATION MAP

DIRECTIONS: FROM NH-101 EXIT 5, NORTH ON NH-107. AFTER 0.6MI, LEFT TO REMAIN ON NH-107. AFTER 0.1MI, RIGHT ON NH-156N. AFTER 2.0MI, LEFT ON MOUNTAIN ROAD. AFTER 2.0MI LEFT ON PAWTUCKAWAY ROAD. AFTER 2.3MI, LEFT ON BIG ISLAND CAMPGROUND ROAD. APPROX 0.15MI TO SITE.

NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CONSTRUCTION

Graphic Scale



North



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

BATHHOUSE 7
I.S.D.S. PLAN AND DETAILS

Sheet Number:

C4.03

Project Number: 23045001

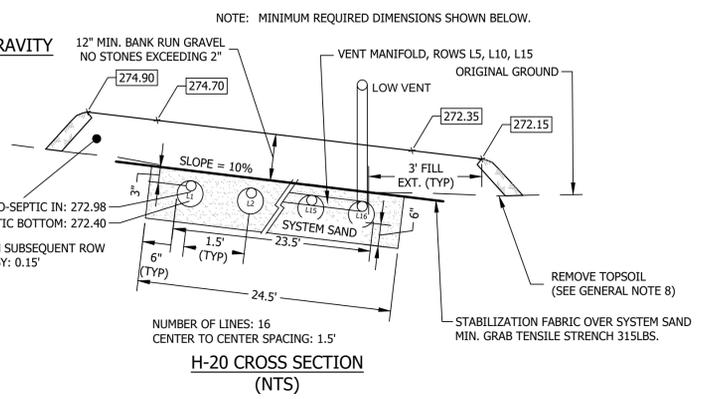
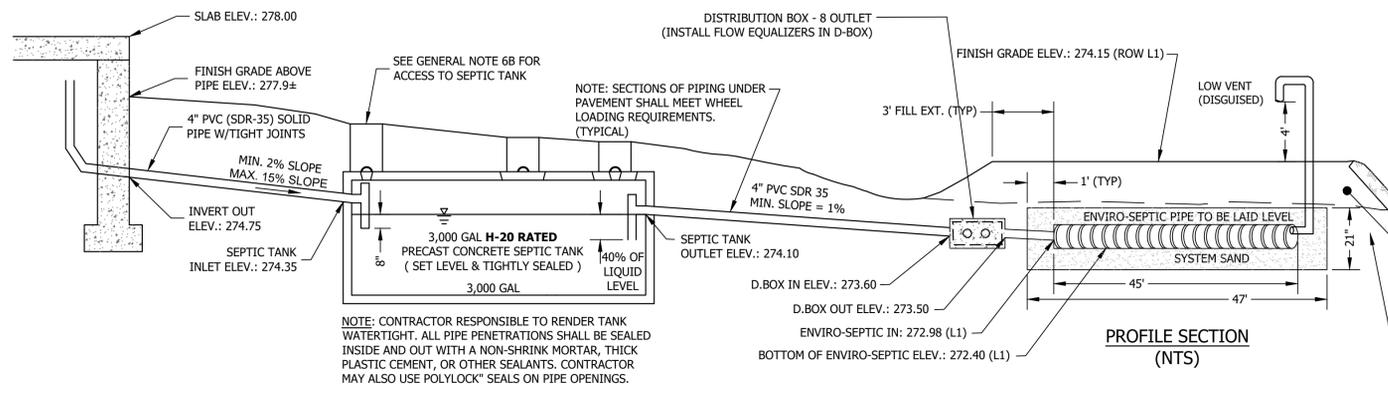
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ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY

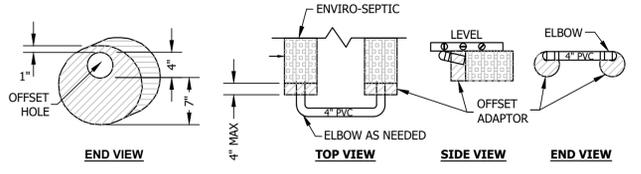
SYSTEM SAND SPECIFICATION:
SAND: 40-90% OF TOTAL SAND TO BE COARSE AND VERY COARSE. NO SAND SMALLER THAN 0.5MM. NO MORE THAN 3% OF THE TOTAL SAND MAY PASS THROUGH A #200 SIEVE.
ASTM C-33 (CONCRETE SAND) MEETS THESE REQUIREMENTS.

FILL SAND SPEC: CLEAN BANK RUN SAND, FREE OF TOPSOIL OR HUMUS, DREDGINGS, OR STONES > THAN 6"
REMOVE TOPSOIL (SEE GENERAL NOTE 8)



PIPE TABLE

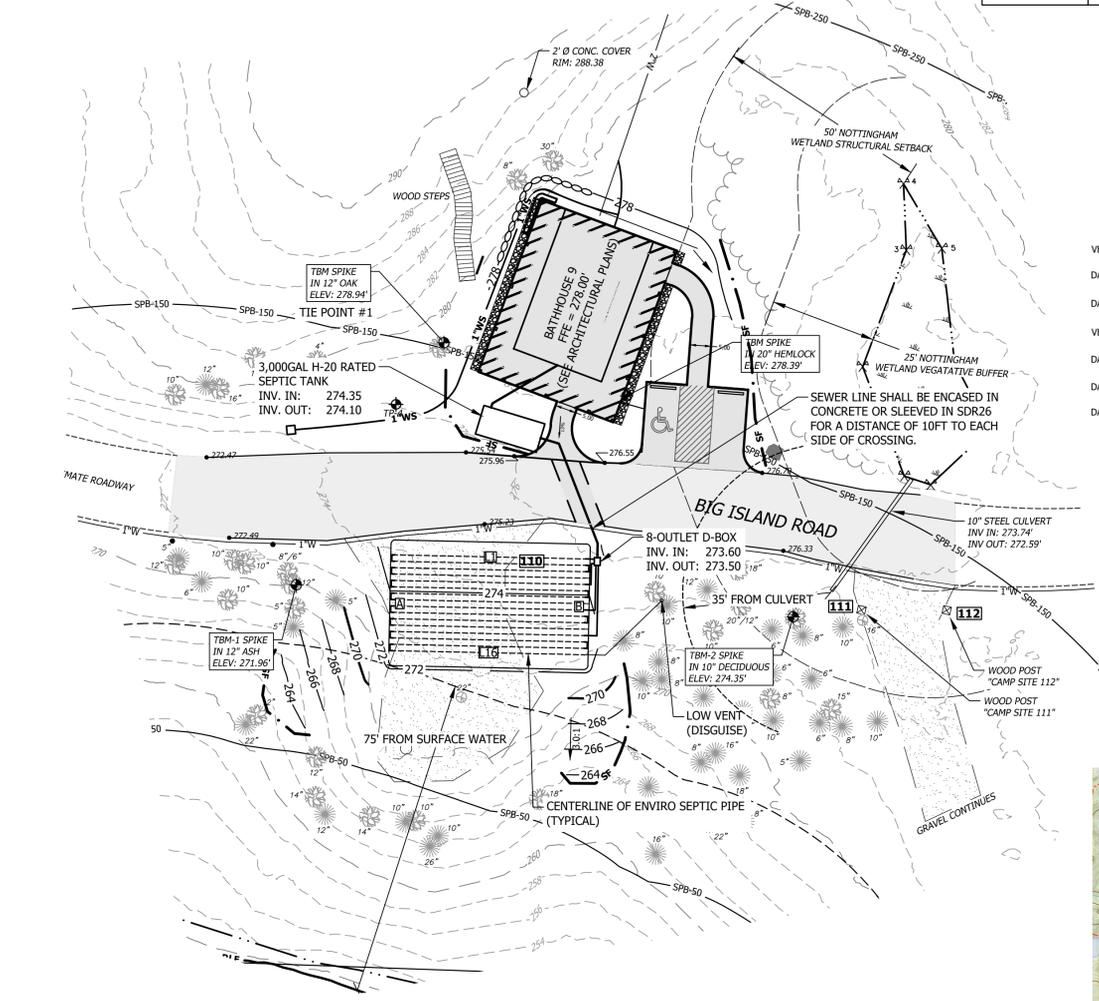
PIPE	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16
BOTTOM OF PIPE	272.40	272.25	272.10	271.95	271.80	271.65	271.50	271.35	271.20	271.05	270.90	270.75	270.60	270.45	270.30	270.15
TOP OF PIPE	273.40	273.25	273.10	272.95	272.80	272.65	272.50	272.35	272.20	272.05	271.90	271.75	271.60	271.45	271.30	271.15
MINIMUM FINISHED GRADE MEAN EXISTING GRADE	274.15	274.00	273.85	273.70	273.55	273.40	273.25	273.10	272.95	272.80	272.65	272.50	272.35	272.20	272.05	271.90
RESTRICTIVE AT:	268.87	268.78	268.69	268.59	268.48	268.33	278.17	268.00	267.83	267.62	267.40	267.16	266.95	266.71	266.49	266.30



ENVIRO-SEPTIC OFFSET ADAPTOR DETAIL (NTS)

GENERAL NOTES

- THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION
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- ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY INFILTRATOR WATER TECHNOLOGIES / PRESBY ENVIRONMENTAL, INC., WHITEFIELD, NH.
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 - IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HDPE RISER AND COVER TO BE SET OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE. RISER AND COVERS SHALL EXTEND TO FINISHED GRADE.
 - EFFLUENT DISPOSAL AREA: MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - MAINTAIN 2" OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE ENVIRO-SEPTIC PIPE OR THE PIPE SHALL BE INSULATED.
- IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS. IF CONTRACTOR ENCOUNTERS EXISTING SEPTIC TANK OR MATERIALS, HE SHALL REMOVE THEM OFF SITE WITH RESPECT TO CURRENT LOCAL AND STATE REGULATIONS.
- ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
- FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
- ALL DISTURBED AREA SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE FROM TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - USE BIODEGRADABLE DETERGENTS.
 - PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.
 - WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
- PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE MADE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT OR FLEXIBLE JOINT CONNECTORS.
- THE DISTRIBUTION BOX SHALL HAVE S.S.I. INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
- THIS SYSTEM HAS BEEN DESIGNED FOR VEHICULAR TRAFFIC.
- THE SITE IS LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.
- WETLANDS ON THE PROJECT SITE HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06. THERE ARE POORLY DRAINED JURISDICTIONAL WETLANDS WITHIN 75' OF, BUT GREATER THAN 50' FROM, THE SYSTEM.
- THERE ARE NO KNOWN BURIAL SITES, BURIAL GROUNDS, OR CEMETERIES WITHIN 25' OF THE SYSTEM OR ON THE PROPERTY.



TIE TABLE

BATHHOUSE 9	L1		L16		
	PIPE END	A	B	A	B
TBM-1 (SPIKE IN 12" ASH)	24.3	68.6	27.6	69.8	
TBM-2 (SPIKE IN 10" DECID.)	95.0	50.8	94.7	50.2	

UTILITIES NOTE:
ANY UTILITIES LOCATED NEAR THE EDA FIELD MUST BE RELOCATED BY THE INSTALLER/CONTRACTOR PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

TREE NOTE:
ALL TREES WITHIN 10 FEET OF PROPOSED EDA TO BE REMOVED AND DISPOSED OF OFF-SITE BY THE INSTALLER/CONTRACTOR.

LOT LOADING:
PAWTUCKAWAY STATE PARK IS APPROXIMATELY 5,500 ACRES. PROJECT MEETS LOT LOADING.

TEST PIT #4

EXISTING GROUND - FOREST FLOOR	SOIL TYPE	DEPTH	PERCOLATION TEST
VERY DARK GRAYISH BROWN	10YR 3/2 3"	FIBRIC ORGANIC MATERIALS, WEAK FINE GRANULAR, V. FRIABLE (FILL)	DEPTH: 28"
DARK BROWN	10YR 3/3 18"	GRAVELLY LOAMY SAND, MASSIVE, V. FRIABLE (FILL)	RATE: 8 MIN./INCH
DARK YELLOWISH BROWN	10YR 3/4 26"	GRAVELLY LOAMY SAND, SINGLE GRAIN, LOOSE (FILL)	
VERY DARK GRAYISH BROWN	10YR 3/2 27"	GRAVELLY FINE SANDY LOAM, WEAK FINE GRANULAR, V. FRIABLE (MIXING)	
DARK YELLOWISH BROWN	10YR 4/6 35"	GRAVELLY FINE SANDY LOAM, MOD. MED. SUBANG. BLOCKY, FRIABLE	
DARK YELLOWISH BROWN	10YR 4/4 47"	LOAMY FINE SAND, MOD. MED. SUBANG. BLOCKY, FRIABLE	
DARK YELLOWISH BROWN	10YR 4/4 72"	FINE SANDY LOAM, MASSIVE, FRIABLE	

DESIGN INTENT

BOTTOM OF ENVIRO-SEPTIC PIPE (L1) TO BE SET AT ELEV.: 272.40 THERE IS APPROXIMATELY 2.5 (TWO AND A HALF) FEET BELOW ORIGINAL GROUND AT THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

EFFLUENT DISPOSAL AREA

CAMPSITES SERVED: 28
REQUIRED SEWAGE LOADING: 28 x 45 GPD = 1,260 GPD
DESIGN SEWAGE LOADING = 1300 GPD
PERCOLATION RATE: 8 MINS / INCH
ENVIRO-SEPTIC REQUIRED = 715 LF
ENVIRO-SEPTIC PROVIDED = 720 LF (16 ROWS x 45 LF/ROW)
ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 275.75 (@ L1)
BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 272.40 (@ L1)

SEPTIC TANK

2 x DAILY FLOW = 2600GAL (USE NEXT LARGER COMMERCIAL SIZE)
USE 3000 GAL TANK

BENCHMARKS USED FOR THE TIE POINTS TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED. NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.

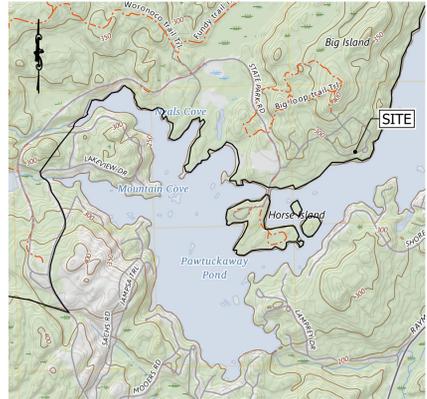
VENT REQUIREMENTS AND PLACEMENT

WHERE SHOWN, LOW AND HIGH VENTS ARE REQUIRED TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE SYSTEM. NO ADDITIONAL VENTS MAY BE LOCATED BETWEEN THE HIGH VENT AND LOW VENT. HIGH VENTS MUST PROVIDE AT LEAST THE SAME FLOW CAPACITY AS LOW VENTS; CONNECTIONS WITHIN THE SYSTEM MUST ALSO HAVE SIMILAR CAPACITIES. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTER AT THE END OF EACH SERIAL SYSTEM OR BED.

VENT LOCATIONS SHOWN ARE APPROXIMATE AND CAN BE RELOCATED SO LONG AS THEY ARE LAID LEVEL OR PITCHED BACK TO THE EDA. VENTS SHOULD BE PLACED IN LOCATIONS WHERE AESTHETIC IMPACT IS MINIMAL. AS NECESSARY, ADD SHRUBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED; USE "MUSHROOM" STYLE VENT COVERS OR VENT COVERS THAT CAMOUFLAGE THE EDA VENT.

TO ENSURE PROPER VENTILATION OF THE SYSTEM, NO EFFLUENT FILTER SHALL BE INSTALLED IN THE SYSTEM. PRIOR TO BACKFILLING THE SYSTEM, CONTRACTOR SHALL PERFORM A SMOKE TEST AT THE D-BOX AND LOW VENT TO ENSURE THAT AIR CAN CIRCULATE THROUGH THE EDA, SEPTIC TANK AND HOUSE VENT. IF NO CLEAR SIGNS OF AIR FLOW ARE OBSERVED, CONTRACTOR SHALL CONTACT DESIGNER OR SYSTEM MANUFACTURER BEFORE BACKFILLING SYSTEM.



LOCATION MAP

DIRECTIONS: FROM NH-101 EXIT 5, NORTH ON NH-107. AFTER 0.6MI, LEFT TO REMAIN ON NH-107. AFTER 0.1MI, RIGHT ONTO NH-156N. AFTER 2.0MI, LEFT ON MOUNTAIN ROAD. AFTER 2.0MI LEFT ON PAWTUCKAWAY ROAD. AFTER 2.3MI, LEFT ON BIG ISLAND CAMPGROUND ROAD. AFTER 0.25MI, RIGHT ON LOOP ROAD. APPROX 0.15MI TO SITE.

ENVIRO-SEPTIC SYSTEM SLOPED, IN-GROUND BED CAMPGROUND DESIGN (1,300 GPD)

NEW HAMPSHIRE
DPMT OF NATURAL & CULTURAL RESOURCES
172 PEMBROKE ROAD
CONCORD, NH 03301
PREVIOUS APPROVAL #: NONE
BIG ISLAND CAMPGROUND LOOP
NOTTINGHAM, NEW HAMPSHIRE
TAX MAP: 76 PARCEL: 2
COUNTY: ROCKINGHAM
SUBDIVISION NAME: n/a
SUBDIVISION APPROVAL: EXEMPT > SAC

NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CONSTRUCTION

Graphic Scale
0 10 20 40

North

Scale: 1" = 20'

Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

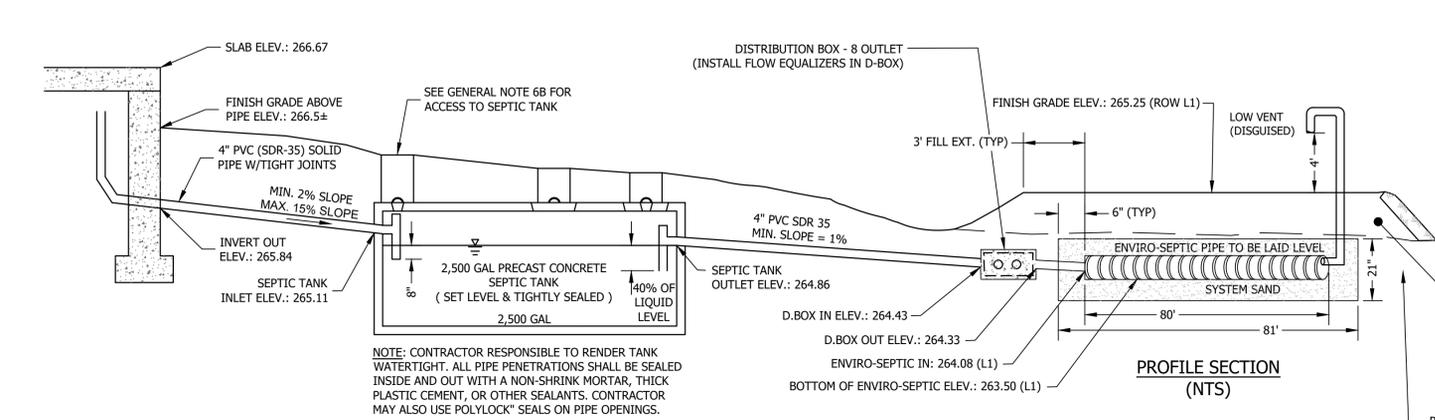
BATHHOUSE 9
I.S.D.S. PLAN AND DETAILS

Sheet Number:

C4.05

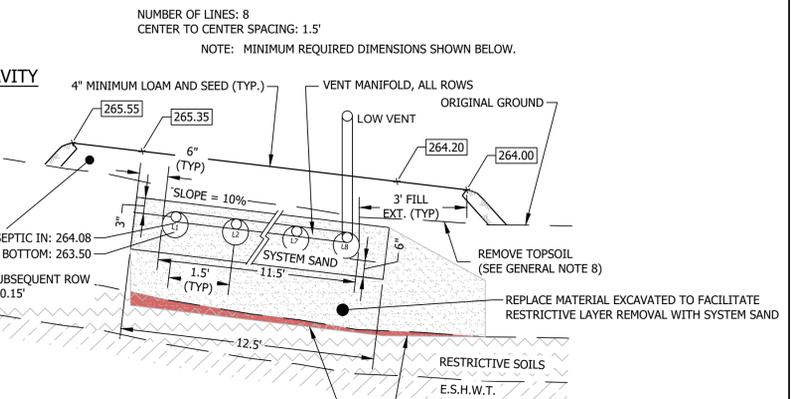
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ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY

SYSTEM SAND SPECIFICATION:
SAND: 40-90% OF TOTAL SAND TO BE COARSE AND VERY COARSE. NO SAND SMALLER THAN 0.5MM. NO MORE THAN 3% OF THE TOTAL SAND MAY PASS THROUGH A #200 SIEVE.
ASTM C-33 (CONCRETE SAND) MEETS THESE REQUIREMENTS.
FILL SAND SPEC: CLEAN BANK RUN SAND, FREE OF TOPSOIL OR HUMUS, DREDGINGS, OR STONES > THAN 6"



PIPE TABLE

PIPE	L1	L2	L3	L4	L5	L6	L7	L8
BOTTOM OF PIPE	263.50	263.35	263.20	263.05	262.90	262.75	262.60	262.45
TOP OF PIPE	264.50	264.35	264.20	264.05	263.90	263.75	263.60	263.45
MINIMUM FINISHED GRADE	265.25	265.10	264.95	264.80	264.65	264.50	264.35	264.20
MEAN EXISTING GRADE	264.65	264.48	264.30	264.07	263.85	263.64	263.41	263.13
RESTRICTIVE AT:	261.98	261.81	261.63	261.40	261.18	260.97	260.74	260.46
REMOVE RESTRICTIVE TO:	261.00	260.85	260.70	260.55	260.40	260.25	260.10	259.95

CROSS SECTION (NTS)

DESIGN INTENT

BOTTOM OF ENVIRO-SEPTIC PIPE (L1) TO BE SET AT ELEV.: 263.50 THERE IS APPROXIMATELY 1.15 (ONE AND FIFTEEN HUNDRETHS) FEET BELOW ORIGINAL GROUND AT THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

EFFLUENT DISPOSAL AREA

CAMPsites SERVED: 27
REQUIRED SEWAGE LOADING: 27 x 45 GPD = 1,215 GPD
DESIGN SEWAGE LOADING = 1215 GPD
PERCOLATION RATE: 6 MINS / INCH
ENVIRO-SEPTIC REQUIRED = 608 LF
ENVIRO-SEPTIC PROVIDED = 640 LF (8 ROWS x 80 LF/ROW)
ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 265.14 (@ L1)
BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 263.50 (@ L1)

SEPTIC TANK

2 x DAILY FLOW = 2430GAL (USE NEXT LARGER COMMERCIAL SIZE)
USE 2,500 GAL TANK

BENCHMARKS USED FOR TIE POINTS TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED. NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.

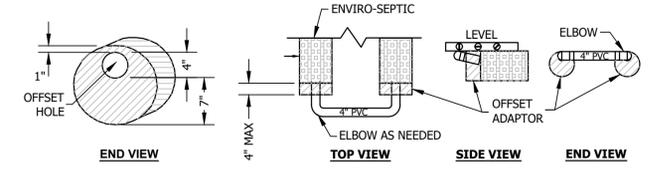
VENT REQUIREMENTS AND PLACEMENT

WHERE SHOWN, LOW AND HIGH VENTS ARE REQUIRED TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE SYSTEM. NO ADDITIONAL VENTS MAY BE LOCATED BETWEEN THE HIGH VENT AND LOW VENT. HIGH VENTS MUST PROVIDE AT LEAST THE SAME FLOW CAPACITY AS LOW VENTS; CONNECTIONS WITHIN THE SYSTEM MUST ALSO HAVE SIMILAR CAPACITIES. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTER AT THE END OF EACH SERIAL SYSTEM OR BED.

VENT LOCATIONS SHOWN ARE APPROXIMATE AND CAN BE RELOCATED SO LONG AS THEY ARE LAID LEVEL OR PITCHED BACK TO THE EDA. VENTS SHOULD BE PLACED IN LOCATIONS WHERE AESTHETIC IMPACT IS MINIMAL, AS NECESSARY, ADD SHRUBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED; USE "MUSHROOM" STYLE VENT COVERS OR VENT COVERS THAT CAMOUFLAGE THE EDA VENT.

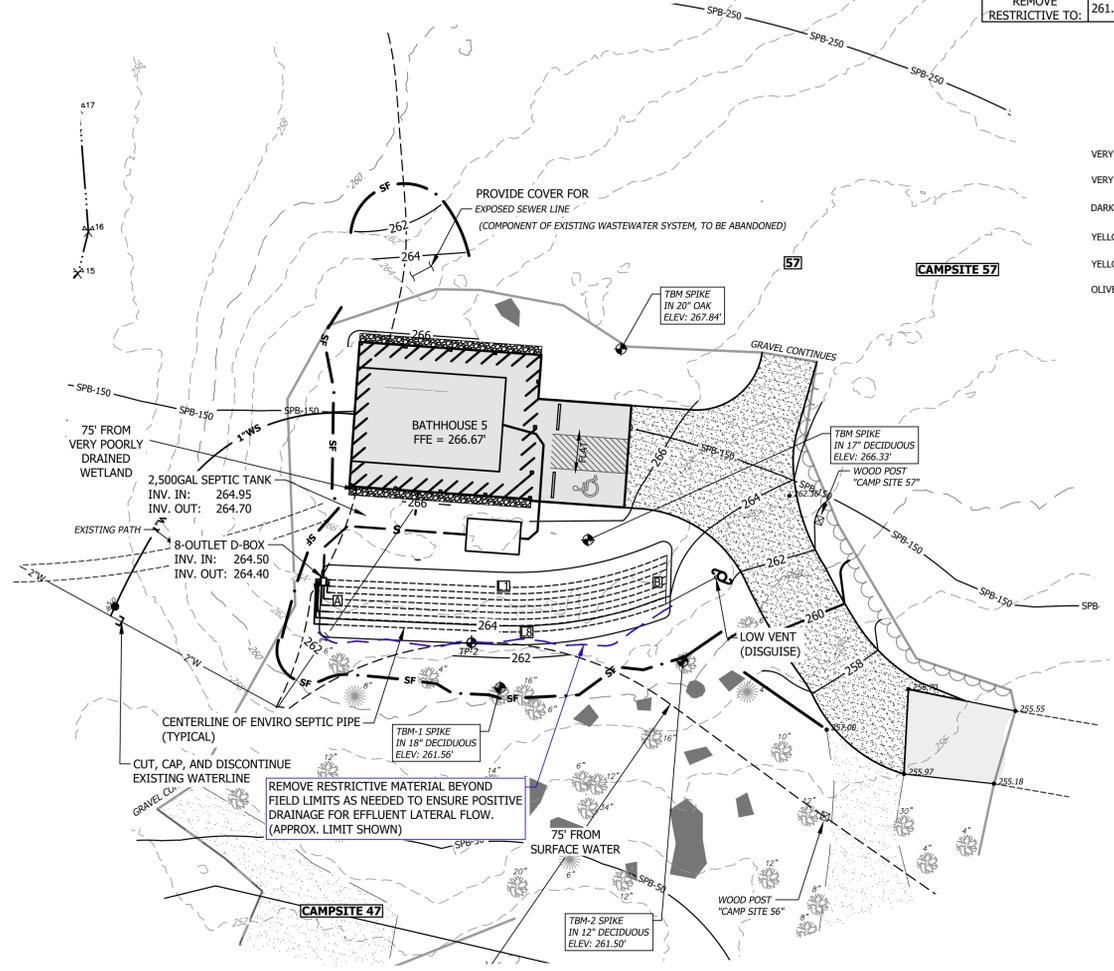
TO ENSURE PROPER VENTILATION OF THE SYSTEM, NO EFFLUENT FILTER SHALL BE INSTALLED IN THE SYSTEM PRIOR TO BACKFILLING THE SYSTEM. CONTRACTOR SHALL PERFORM A SMOKE TEST AT THE D-BOX AND LOW VENT TO ENSURE THAT AIR CAN CIRCULATE THROUGH THE EDA, SEPTIC TANK AND HOUSE VENT. IF NO CLEAR SIGNS OF AIR FLOW ARE OBSERVED, CONTRACTOR SHALL CONTACT DESIGNER OR SYSTEM MANUFACTURER BEFORE BACKFILLING SYSTEM.



ENVIRO-SEPTIC OFFSET ADAPTOR DETAIL (NTS)

GENERAL NOTES

- THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION
- CALL DIG-SAFE PRIOR TO INSTALLATION.
- SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
- TOPOGRAPHY AND SURVEY INFORMATION PROVIDED BY HORIZONS ENGINEERING, INC. OF LITTLETON, NEW HAMPSHIRE. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
- ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY INFILTRATOR WATER TECHNOLOGIES / PRESBY ENVIRONMENTAL, INC., WHITEFIELD, NH.
- COVER OVER PROPOSED SYSTEM:
 - 18" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE BATHHOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HDPE RISER AND COVER TO BE SET OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE. RISER AND COVERS SHALL EXTEND TO FINISHED GRADE.
 - EFFLUENT DISPOSAL AREA: MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - MAINTAIN 2' OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE ENVIRO-SEPTIC PIPE OR THE PIPE SHALL BE INSULATED.
- IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS. IF CONTRACTOR ENCOUNTERS EXISTING SEPTIC TANK OR MATERIALS, HE SHALL REMOVE THEM OFF SITE WITH RESPECT TO CURRENT LOCAL AND STATE REGULATIONS.
- ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
- FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
- ALL DISTURBED AREA SHALL BE LOAMED, SEED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE FROM TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - USE BIODEGRADABLE DETERGENTS.
 - PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.
 - WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
- PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE MADE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT OR FLEXIBLE JOINT CONNECTORS.
- THE DISTRIBUTION BOX SHALL HAVE S.S.I. INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
- THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
- THE SITE IS LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND
- WETLANDS ON THE PROJECT SITE HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06. THERE ARE NO JURISDICTIONAL WETLANDS ON WITHIN 75' OF THE SYSTEM.
- THERE ARE NO KNOWN BURIAL SITES, BURIAL GROUNDS, OR CEMETERIES WITHIN 25' OF THE SYSTEM OR ON THE PROPERTY.



TIE TABLE

BATHHOUSE 5	L1		L8	
	A	B	A	B
TBM-1 (SPIKE IN 18" DECIDUOUS)	47.4	49.7	43.3	43.2
TBM-2 (SPIKE IN 12" DECIDUOUS)	85.3	25.1	84.2	14

UTILITIES NOTE:
ANY UTILITIES LOCATED NEAR THE EDA FIELD MUST BE RELOCATED BY THE INSTALLER/CONTRACTOR PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

TREE NOTE:
ALL TREES WITHIN 10 FEET OF PROPOSED EDA TO BE REMOVED AND DISPOSED OF OFF-SITE BY THE INSTALLER/CONTRACTOR.

LOT LOADING:
PAWTUCKAWAY STATE PARK IS APPROXIMATELY 5,500 ACRES. PROJECT MEETS LOT LOADING.

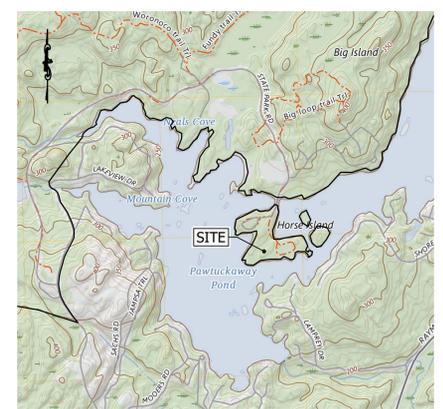
TEST PIT #2	EXISTING GROUND - FOREST FLOOR	DEPTH	PERCENTAGE	SOIL TYPE
VERY DARK BROWN	10YR 2/2	2"	FIBRIC ORGANIC MATERIAL, WEAK FINE GRANULAR, V. FRIABLE	
DARK YELLOWISH BROWN	10YR 2/2	8"	FINE SANDY LOAM, WEAK FINE GRANULAR, V. FRIABLE.	
VERY DARK BROWN	10YR 3/6	20"	FINE SANDY LOAM, WEAK FINE GRANULAR, V. FRIABLE.	
YELLOWISH BROWN	10YR 4/4	28"	FINE SANDY LOAM, WEAK MEDIUM SUBANG BLOCKY, FRIABLE	
YELLOWISH BROWN	10YR 4/4	32"	GRAVELLY LOAMY FINE SAND, MASSIVE, FRIABLE	
OLIVE BROWN	2.5Y 4/3	50"	GRAVELLY LOAMY FINE SAND, MASSIVE, FIRM & FRIABLE	

BATHHOUSE 5
E.S.H.W.T.: NONE TO DEPTH, 50"
WATER OBSERVED: NONE
RESTRICTIVE LAYER: 32"
LEDGE ENCOUNTERED: POSSIBLE AT 50"
INSPECTED BY: ADAM DOIRON, DOIRON ENVIRONMENTAL
DATE: 2 OCTOBER 2023

SOILS TYPE: 343C CANTON GRAVELLY FINE SANDY LOAM, EXTREMELY BOULDERY
REFERENCE: INRCS WEB SOIL SURVEY, ROCKINGHAM COUNTY NH (NH015)

PERCOLATION TEST
DEPTH: 27"
RATE: 6 MIN./INCH

NOTE:
BED AREA SHALL BE OVER-EXCAVATED TO REMOVE RESTRICTIVE LAYER



LOCATION MAP

DIRECTIONS: FROM NH-101 EXIT 5, NORTH ON NH-107. AFTER 0.6MI, LEFT TO REMAIN ON NH-107. AFTER 0.1MI, RIGHT ONTO NH-156N. AFTER 2.0MI, LEFT ON MOUNTAIN ROAD. AFTER 2.0MI LEFT ON PAWTUCKAWAY ROAD. AFTER 2.5MI, LEFT ON HORSE ISLAND CAMPGROUND ROAD. AFTER 0.1MI, RIGHT AT TEE. APPROX 0.05MI TO SITE.

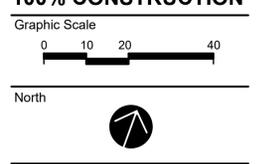
ENVIRO-SEPTIC SYSTEM SLOPED, IN-GROUND BED CAMPGROUND DESIGN (1,215 GPD)

NEW HAMPSHIRE
DPMT OF NATURAL & CULTURAL RESOURCES
172 PEMBROKE ROAD
CONCORD, NH 03301
PREVIOUS APPROVAL #: NONE
HORSE ISLAND CAMPGROUND SPUR NOTTINGHAM, NEW HAMPSHIRE
TAX MAP: 76 PARCEL: 2
COUNTY: ROCKINGHAM
SUBDIVISION NAME: n/a
SUBDIVISION APPROVAL: EXEMPT >SAC

NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

100% CONSTRUCTION



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

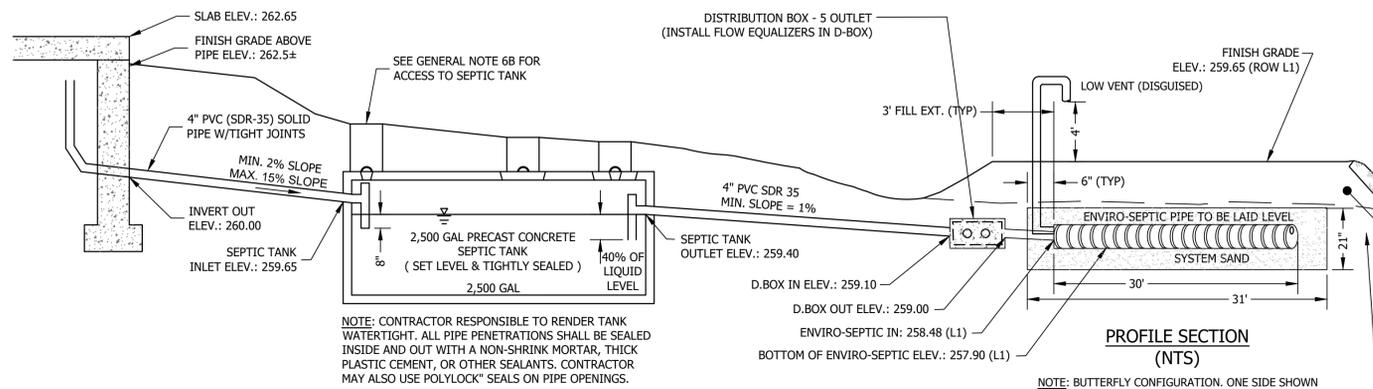
BATHHOUSE 5 I.S.D.S. PLAN AND DETAILS

Sheet Number:

C4.06

Project Number: 23045001

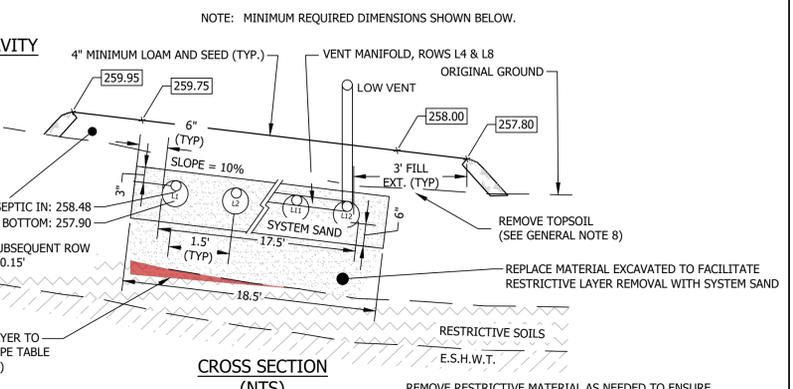
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ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY

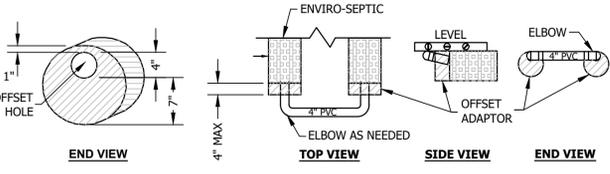
SYSTEM SAND SPECIFICATION:
SAND: 40-90% OF TOTAL SAND TO BE COARSE AND VERY COARSE. NO SAND SMALLER THAN 0.5MM. NO MORE THAN 3% OF THE TOTAL SAND MAY PASS THROUGH A #200 SIEVE.
ASTM C-33 (CONCRETE SAND) MEETS THESE REQUIREMENTS.

FILL SAND SPEC: CLEAN BANK RUN SAND, FREE OF TOPSOIL OR HUMUS, DREDGINGS, OR STONES > THAN 6"
REMOVE RESTRICTIVE LAYER TO ELEVATION SHOWN IN PIPE TABLE (30" BELOW PIPE INVERT)
REMOVE RESTRICTIVE MATERIAL AS NEEDED TO ENSURE POSITIVE DRAINAGE FOR EFFLUENT LATERAL FLOW
EXCAVATION SHALL NOT CREATE IMPERMEABLE BOWL



PIPE TABLE

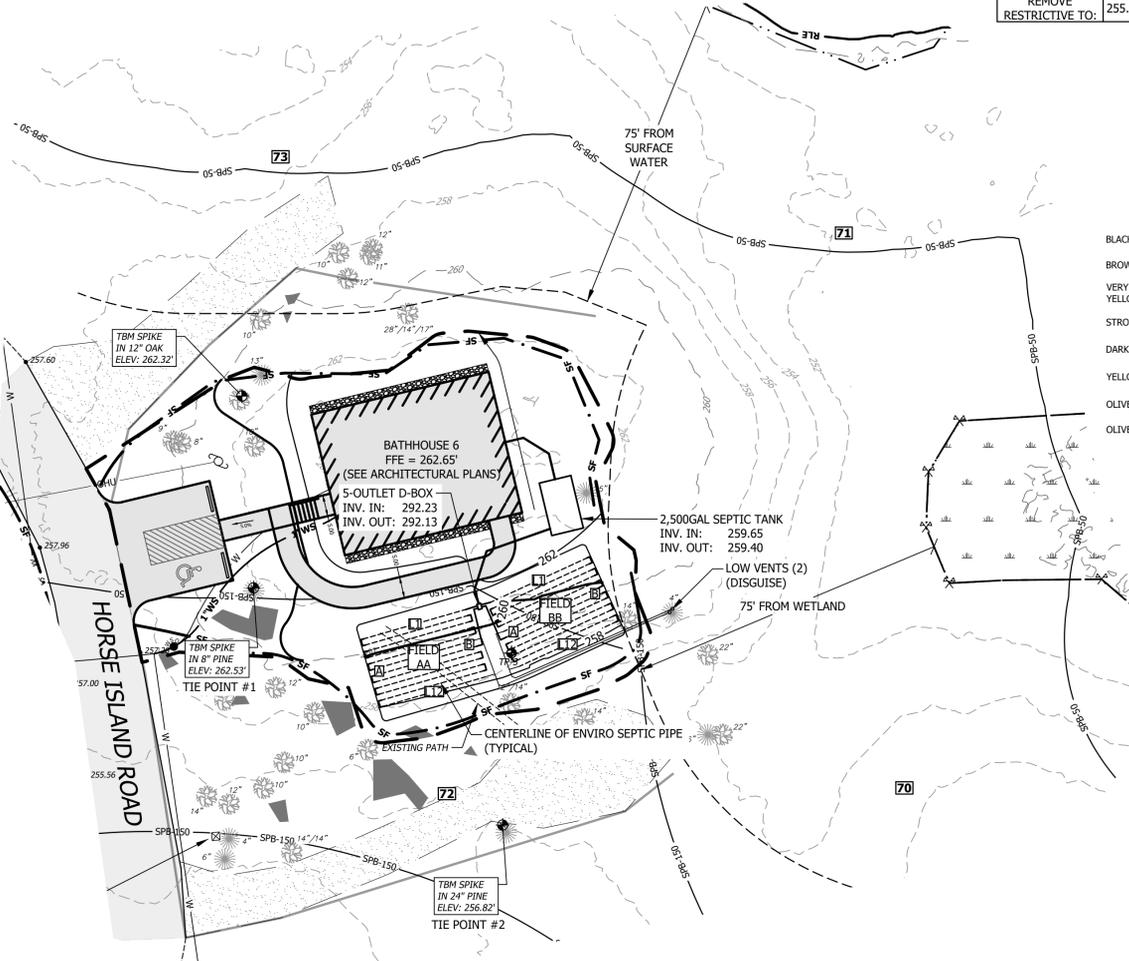
PIPE	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
BOTTOM OF PIPE	257.90	257.75	257.60	257.45	257.30	257.15	257.00	256.85	256.70	256.55	256.40	256.25
TOP OF PIPE	258.90	258.75	258.60	258.45	258.30	258.15	258.00	257.85	257.70	257.55	257.40	257.25
MINIMUM FINISHED GRADE MEAN EXISTING GRADE	259.65	259.50	259.35	259.20	259.05	258.90	258.75	258.60	258.45	258.30	258.15	258.00
RESTRICTIVE AT:	256.38	256.16	255.91	255.65	255.42	255.24	255.00	254.70	254.34	253.99	253.70	253.46
REMOVE RESTRICTIVE TO:	255.40	255.25	255.10	254.95	254.80	254.65	254.50	254.35	254.20	254.05	253.90	253.75



ENVIRO-SEPTIC OFFSET ADAPTOR DETAIL (NTS)

GENERAL NOTES

- THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION
- CALL DIG-SAFE PRIOR TO INSTALLATION.
- SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
- TOPOGRAPHY AND SURVEY INFORMATION PROVIDED BY HORIZONS ENGINEERING, INC. OF LITTLETON, NEW HAMPSHIRE. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
- ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY INFILTRATOR WATER TECHNOLOGIES / PRESBY ENVIRONMENTAL, INC., WHITEFIELD, NH.
- COVER OVER PROPOSED SYSTEM:
 - 18" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE BATHHOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HOPE RISER AND COVER TO BE SET OVER TANK OPENINGS FOR FUTURE ACCESS TO THE TANK COVERS FOR MAINTENANCE. RISER AND COVERS SHALL EXTEND TO FINISHED GRADE.
 - EFFLUENT DISPOSAL AREA: MINIMUM COVER TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT MINIMUM OF 1%.
 - MAINTAIN 2" OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE ENVIRO-SEPTIC PIPE OR THE PIPE SHALL BE INSULATED.
- IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS. IF CONTRACTOR ENCOUNTERS EXISTING SEPTIC TANK OR MATERIALS, HE SHALL REMOVE THEM OFF SITE WITH RESPECT TO CURRENT LOCAL AND STATE REGULATIONS.
- ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
- FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
- ALL DISTURBED AREA SHALL BE LOAMED, SEED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE FROM TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - USE BIODEGRADABLE DETERGENTS.
 - PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.
 - WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
- PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE MADE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT OR FLEXIBLE JOINT CONNECTORS.
- THE DISTRIBUTION BOX SHALL HAVE S.S.I. INC. FLOW EQUALIZERS INSTALLED IN THE OUTLET PORTS.
- THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
- THE SITE IS LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.
- THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
- WETLANDS ON THE PROJECT SITE HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06. THERE ARE NO JURISDICTIONAL WETLANDS ON WITHIN 75' OF THE SYSTEM.
- THERE ARE NO KNOWN BURIAL SITES, BURIAL GROUNDS, OR CEMETERIES WITHIN 25' OF THE SYSTEM OR ON THE PROPERTY.



TIE TABLE

BATHHOUSE 6 -- FIELD AA		L1		L12	
PIPE END	A	B	A	B	B
TBM-1 (SPIKE IN 8" PINE)	28.7	50.4	41.4	58.5	
TBM-2 (SPIKE IN 24" PINE)	54.6	51.4	39.6	35	
BATHHOUSE 6 -- FIELD BB		L1		L12	
PIPE END	A	B	A	B	B
TBM-1 (SPIKE IN 8" PINE)	56	78.9	65.4	85.8	
TBM-2 (SPIKE IN 24" PINE)	52.4	65.7	37.5	54.6	

TREE NOTE:
ALL TREES WITHIN 10 FEET OF PROPOSED EDA TO BE REMOVED AND DISPOSED OF OFF-SITE BY THE INSTALLER/CONTRACTOR.
UTILITIES NOTE:
ANY UTILITIES LOCATED NEAR THE EDA FIELD MUST BE RELOCATED BY THE INSTALLER/CONTRACTOR PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

LOT LOADING:
PAWTUCKAWAY STATE PARK IS APPROXIMATELY 5,500 ACRES. PROJECT MEETS LOT LOADING.

EXISTING GROUND - FOREST FLOOR	TEST PIT #3	SOILS TYPE
BLACK	5YR 2.5/1 2"	FIBRIC ORGANIC MATERIALS, WEAK FINE GRANULAR, V. FRIBLE (FILL)
BROWN	7.5YR 4/4 12"	GRAVELLY SAND, SINGLE GRAIN, LOOSE (FILL)
VERY DARK YELLOWISH BROWN	10YR 3/2 15"	FINE SANDY LOAM, WEAK FINE GRANULAR, V. FRIBLE (MIXING)
STRONG BROWN	7.5YR 4/6 24"	FINE SANDY LOAM, WEAK MEDIUM SUBANG BLOCKY, V. FRIBLE
DARK YELLOWISH BROWN	10YR 4/6 36"	FINE SANDY LOAM, WEAK MEDIUM SUBANG BLOCKY, V. FRIBLE
YELLOWISH BROWN	10YR 5/4 45"	LOAMY FINE SAND, MOD. MED. SUBANG. BLOCKY, V. FRIBLE
OLIVE BROWN	2.5Y 4/3 53"	LOAMY FINE SAND, MASSIVE, FRIBLE
OLIVE BROWN	2.5Y 4/3 75"	LOAMY FINE SAND, MASSIVE, FIRM & FRIBLE

BATHHOUSE 6
E.S.H.W.T.: NONE TO DEPTH, 75"
WATER OBSERVED: NONE
RESTRICTIVE LAYER: 53"
LEDGE ENCOUNTERED: NONE TO DEPTH, 75"
INSPECTED BY: ADAM DOIRON, DOIRON ENVIRONMENTAL
DATE: 2 OCTOBER 2023

SOILS TYPE: 43C CANTON FINE SANDY LOAM, VERY STONY
REFERENCE: NEW SOIL SURVEY, ROCKINGHAM COUNTY NH (NH015)
PERCOLATION TEST
DEPTH: 24"
RATE: 6 MIN./INCH
NOTE:
BED AREA SHALL BE OVER-EXCAVATED TO REMOVE RESTRICTIVE LAYER

DESIGN INTENT

BOTTOM OF ENVIRO-SEPTIC PIPE (L1) TO BE SET AT ELEV.: 257.90 THERE IS APPROXIMATELY 2.9 (TWO AND NINE TENTHS) FEET BELOW ORIGINAL GROUND AT THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

EFFLUENT DISPOSAL AREA

CAMPSITES SERVED: 26
REQUIRED SEWAGE LOADING: 26 x 45 GPD = 1,170 GPD
DESIGN SEWAGE LOADING = 1200 GPD
PERCOLATION RATE: 6 MINS / INCH
ENVIRO-SEPTIC PROVIDED = 600 LF (24 ROWS x 25 LF/ROW)
ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 261.6' (@ L1)
BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 257.90' (@ L1)

SEPTIC TANK

2 x DAILY FLOW = 2,400GAL (USE NEXT LARGER COMMERCIAL SIZE)
USE 2,500 GAL TANK

BENCHMARKS USED FOR TIE POINTS TO BE LEFT IN PLACE AND VISIBLE UNTIL THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED. NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.

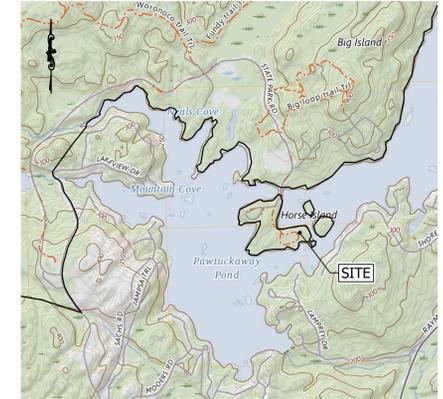
VENT REQUIREMENTS AND PLACEMENT

WHERE SHOWN, LOW AND HIGH VENTS ARE REQUIRED TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE SYSTEM. NO ADDITIONAL VENTS MAY BE LOCATED BETWEEN THE HIGH VENT AND LOW VENT. HIGH VENTS MUST PROVIDE AT LEAST THE SAME FLOW CAPACITY AS LOW VENTS; CONNECTIONS WITHIN THE SYSTEM MUST ALSO HAVE SIMILAR CAPACITIES; THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTER AT THE END OF EACH SERIAL SYSTEM OR BED.

VENT LOCATIONS SHOWN ARE APPROXIMATE AND CAN BE RELOCATED SO LONG AS THEY ARE LAID LEVEL OR PITCHED BACK TO THE EDA. VENTS SHOULD BE PLACED IN LOCATIONS WHERE AESTHETIC IMPACT IS MINIMAL. AS NECESSARY, ADD SHRUBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED; USE "MUSHROOM" STYLE VENT COVERS OR VENT COVERS THAT CAMOUFLAGE THE EDA VENT.

TO ENSURE PROPER VENTILATION OF THE SYSTEM, NO EFFLUENT FILTER SHALL BE INSTALLED IN THE SYSTEM. PRIOR TO BACKFILLING THE SYSTEM, CONTRACTOR SHALL PERFORM A SMOKE TEST AT THE D-BOX AND LOW VENT TO ENSURE THAT AIR CAN CIRCULATE THROUGH THE EDA, SEPTIC TANK AND HOUSE VENT. IF NO CLEAR SIGNS OF AIR FLOW ARE OBSERVED, CONTRACTOR SHALL CONTACT DESIGNER OR SYSTEM MANUFACTURER BEFORE BACKFILLING SYSTEM.



LOCATION MAP

DIRECTIONS: FROM NH-101 EXIT 5, NORTH ON NH-107. AFTER 0.6MI, LEFT TO REMAIN ON NH-107. AFTER 0.1MI, RIGHT ONTO NH-156N. AFTER 2.0MI, LEFT ON MOUNTAIN ROAD. AFTER 2.0MI LEFT ON PAWTUCKAWAY ROAD. AFTER 2.5MI, LEFT ON HORSE ISLAND CAMPGROUND ROAD. AFTER 0.05MI, LEFT ON CAMPGROUND LOOP. APPROX 0.05MI TO SITE.

ENVIRO-SEPTIC SYSTEM SLOPED, IN-GROUND BED CAMPGROUND DESIGN (1,200 GPD)

NEW HAMPSHIRE
DPMT OF NATURAL & CULTURAL RESOURCES
172 PEMBROKE ROAD
CONCORD, NH 03301

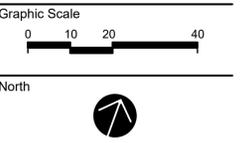
PREVIOUS APPROVAL #: NONE
HORSE ISLAND CAMPGROUND LOOP
NOTTINGHAM, NEW HAMPSHIRE
TAX MAP: 76 PARCEL: 2

COUNTY: ROCKINGHAM
SUBDIVISION NAME: n/a
SUBDIVISION APPROVAL: EXEMPT > SAC

NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

100% CONSTRUCTION



Scale: 1" = 20'

Date: March 15, 2024

Drawn By: CJH

Checked By: WTD

No.	Description	Date
1	Name	00/00/00

BATHHOUSE 6 I.S.D.S. PLAN AND DETAILS

Sheet Number:

C4.07

Project Number: 23045001
File: 220838_pawtuckaway_final-02b.dwg

SEEDING RECOMMENDATIONS

- GRADING AND SHAPING**
 - SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
- SEEDBED PREPARATION**
 - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE AMENDED WITH ORGANIC MATTER AND TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME THOROUGHLY INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- ESTABLISHING VEGETATION**
 - LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT.
 - NITROGEN (N), 50 LBS., PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT.
 - PHOSPHATE (P₂O₅), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.
 - POTASH (K₂O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10).
 - SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

C. SEEDING GUIDE:

USE	SEEDING MIXTURE (SEE 3D)	SOIL TYPE			
		DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	GOOD	FAIR

D. SEEDING RATES:

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDDTOP	2	0.05
TOTAL:	42	0.95
B TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH OR FLATPEA	15 OR 30	0.35 OR 0.75
TOTAL:	40 OR 55	0.95 OR 1.35
C TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL:	50	1.20

- WHEN SEEDING AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO SEPTEMBER 15. WHEN SEEDING AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

F. TEMPORARY SEEDING RATES:

SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.	REMARKS
WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40	1.0	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE NOT IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30	0.7	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1ST AND JUNE 1ST AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

- MULCH**
 - HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING.
- MAINTENANCE TO ESTABLISH A STAND**
 - PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

MULCH NETTING DETAIL

SOURCE: USDA SOIL CONSERVATION SERVICE
NO SCALE

EROSION CONTROL GENERAL NOTES

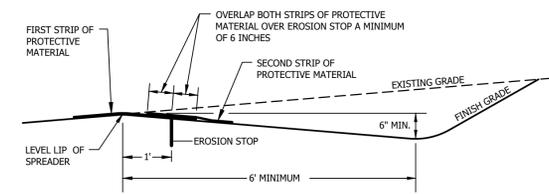
- KEEP SITE MODIFICATION TO A MINIMUM**
 - CONSIDER FITTING THE BUILDINGS AND STREETS TO THE NATURAL TOPOGRAPHY. THIS REDUCES THE NEED FOR CUTS AND FILLS. AVOID EXTENSIVE GRADING THAT WOULD ALTER DRAINAGE PATTERNS OR CREATE VERY STEEP SLOPES.
 - EXPPOSE AREAS OF BARE SOIL TO EROSION ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
 - SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
 - LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.
 - AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.
- MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES**
 - STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.
 - PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.
 - USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.
 - USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY FROM EROSION PRONE AREAS TO POINTS OF SAFE DISPOSAL.
 - USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.
 - PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS.
- PROTECT AREA AFTER CONSTRUCTION**
 - ESTABLISH GRASS OR OTHER SUITABLE VEGETATION ON ALL DISTURBED AREAS. SELECT SPECIES ADAPTED TO THE SITE CONDITIONS AND THE FUTURE USE OF THE AREA. FINAL GRADES SHALL BE SEEDED WITHIN 72 HOURS. STABILIZATION SHALL BE DEFINED AS 85% VEGETATIVE COVER.
 - MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE 'BEST MANAGEMENT PRACTICES' DURING THE CONSTRUCTION PERIOD.
 - MAINTAIN NEEDED STRUCTURAL 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION PONDS AND SEDIMENT BASINS AS NEEDED.
 - DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.
 - IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, REFER TO 'COLD WEATHER SITE STABILIZATION REQUIREMENTS'.
- INVASIVE SPECIES AND FUGITIVE DUST**
 - THE PROJECT SHALL NOT CONTRIBUTE TO THE SPREAD OF INVASIVE SPECIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EVALUATE WORK AREAS FOR THE PRESENCE OF INVASIVE SPECIES, AND IF FOUND SHALL TAKE NECESSARY MEASURES TO PREVENT THEIR SPREAD IN ACCORDANCE WITH RSA 430:51-57 AND AGR 3800. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT THE INTRODUCTION OF INVASIVE SPECIES BY INSPECTING AND CLEANING ALL EQUIPMENT ARRIVING ON SITE.
 - FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

COLD WEATHER SITE STABILIZATION REQUIREMENTS

- TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1:
- THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.
 - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE. SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2 INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
 - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH PROPERLY INSTALLED AND ANCHORED EROSION CONTROL MATTING OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
 - INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
 - INSTALLATION OF EROSION CONTROL MATTING SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.
 - ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 OR 3 ABOVE, SHALL BE COMPLETED WITHIN 1 DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
 - ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY THE OWNER'S ENGINEERING CONSULTANT.
 - AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM NO. 304.1 OR 304.2.

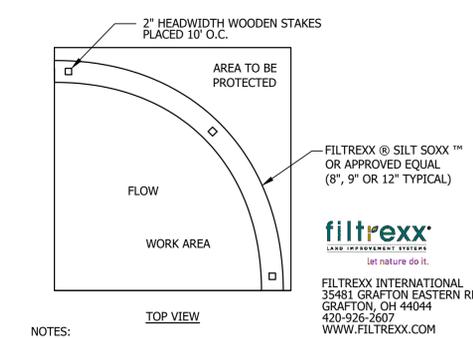
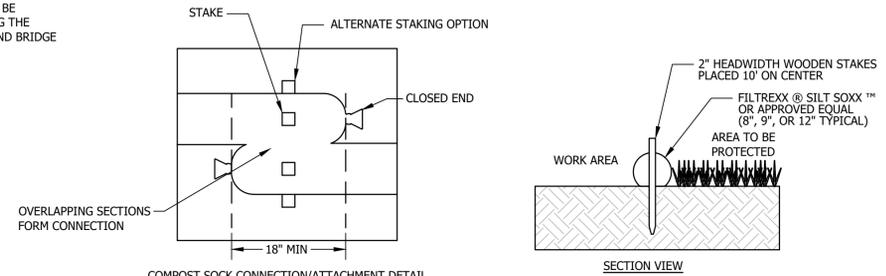
LEVEL LIP SPREADER INSTALLATION

- CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
- LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
- AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP.
- THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
- THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A 1 PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING INTO THE SPREADER.
- THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
- PROTECTIVE MATERIAL AND EROSION STOP SHALL BE NORTH AMERICAN GREEN C125 EROSION CONTROL BLANKET OR APPROVED EQUAL.



LEVEL SPREADER DETAIL

NO SCALE
SOURCE: ROCKINGHAM COUNTY CONSERVATION SERVICE

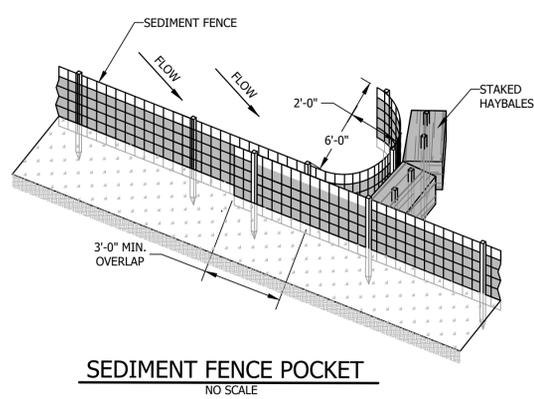


- NOTES:
- ALL MATERIAL TO MEET FILTREXX @ SPECIFICATIONS.
 - SILT SOXX™ FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPersed ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX@ SILT SOXX™ DETAILS

NOT TO SCALE

SOURCE: <https://www.filtrex.com/en/resources/design-specs-cads/filtrex-cad-files>
THIS DETAIL IS ADAPTED FROM "FILTREXX @ SILT SOXX™ & SEDIMENT TRAPP™" DETAILS" SHEET AND IS THE SOLE PROPERTY OF FILTREXX INTERNATIONAL, LLC.

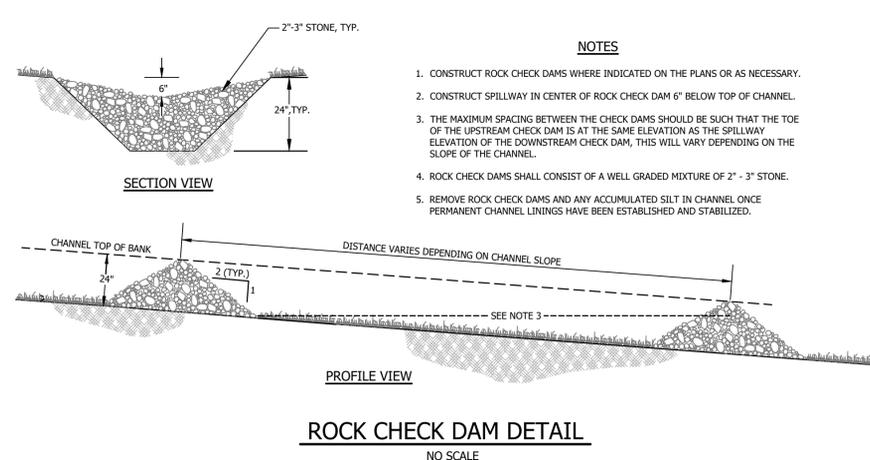


CONSTRUCTION NOTES FOR SEDIMENT FENCE

- WOVEN WIRE FENCE, IF REQUIRED, TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.
- 12" DIAMETER FILTREXX SILT SOXX SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO SEDIMENT FENCE IF INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

SEDIMENT FENCE

NO SCALE



ROCK CHECK DAM DETAIL

NO SCALE

NH STATE PARKS

Campround Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue
100% CONSTRUCTION

Graphic Scale

North

Scale: Varies

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

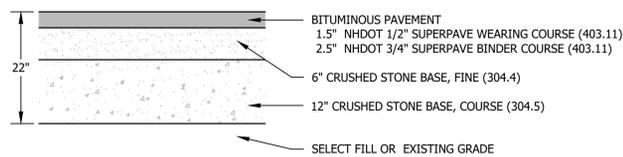
DETAILS
EROSION CONTROL

Sheet Number:

C5.00

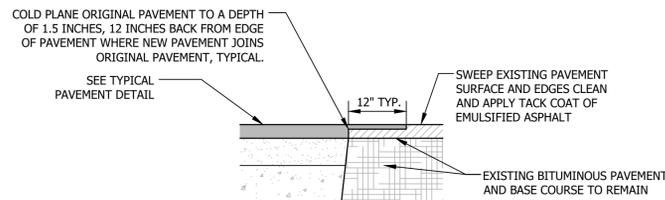
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File: 220838_base-01_pawtuckaway.dwg



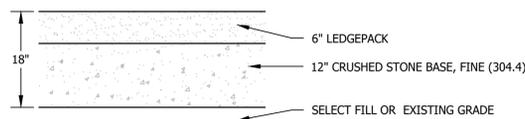
TYPICAL PAVEMENT SECTION

NOT TO SCALE



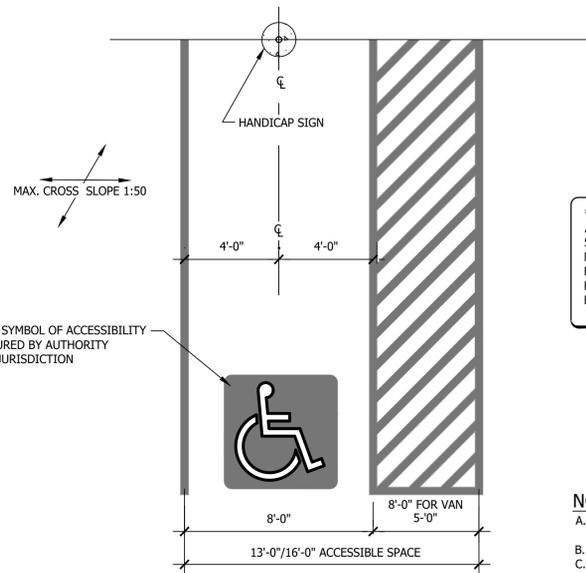
PAVEMENT JOINING DETAIL

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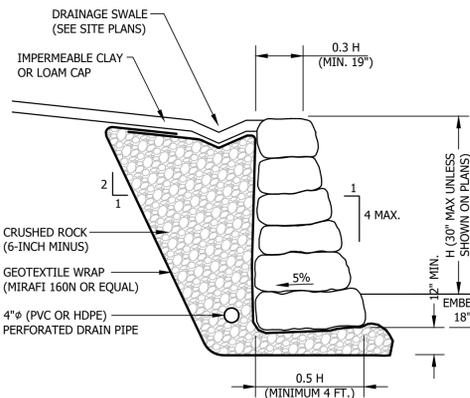
GRAVEL DRIVE SECTION

NOT TO SCALE



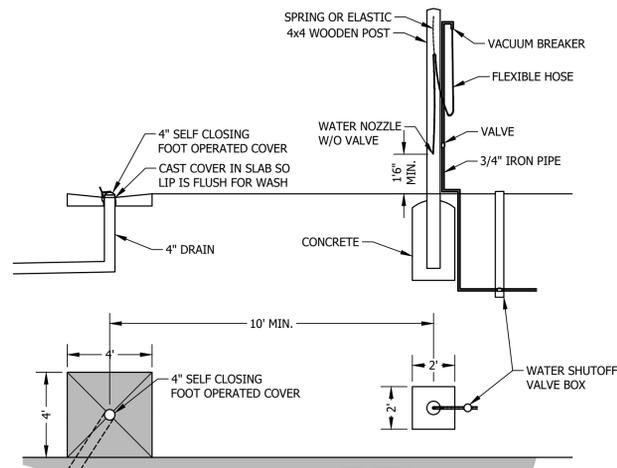
ACCESSIBLE PARKING DETAIL

NOT TO SCALE



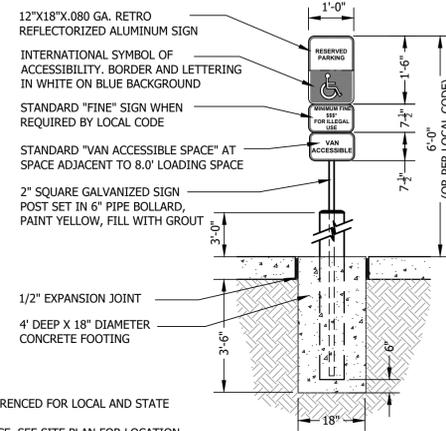
ROCKERY WALL DETAIL

NOT TO SCALE



DUMP STATION DETAILS

NOT TO SCALE



ACCESSIBLE PARKING SIGN

NOT TO SCALE

*INCLUDE ON ALL ACCESSIBLE SIGN POLES A SIGN INDICATING MINIMUM FINE OF \$ (FINE) FOR ILLEGAL PARKING. REFER TO LOCAL CODES FOR FINE AMOUNT.

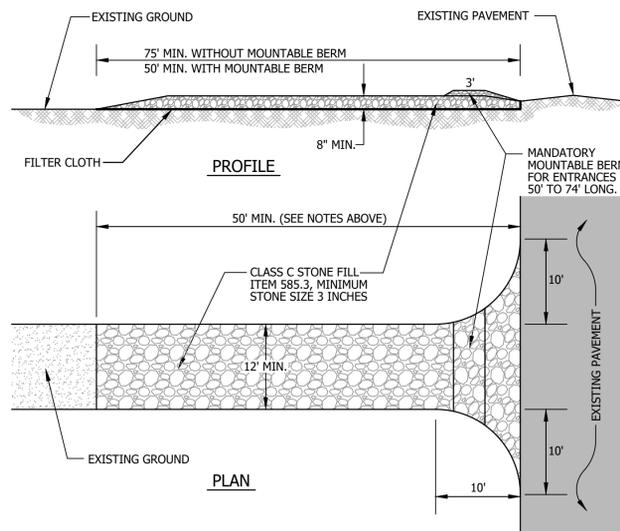
NOTES:

- SPECIFIC CODE SHOULD BE REFERENCED FOR LOCAL AND STATE REQUIREMENTS.
- (1) SIGN AT EACH HANDICAP SPACE. SEE SITE PLAN FOR LOCATION.
- EXPANSION JOINT MATERIAL NOT REQUIRED WITH FLEXIBLE PAVEMENT.

ROCKERY WALL NOTES

- THE WALL DETAIL(S) DEPICTED ON THESE PLANS ARE CONCEPTUAL. SITE SPECIFIC DESIGN SHOULD BE COMPLETED BY A GEOTECHNICAL ENGINEER BASED ON SITE SPECIFIC SOIL AND GROUNDWATER CONDITIONS AT THE WALL LOCATIONS.
- WALL CONSTRUCTION AND INSPECTION SHOULD BE COMPLETED IN ACCORDANCE WITH ROCKERY DESIGN AND CONSTRUCTION GUIDELINES, FHWA-CF/TD-06-006, NOVEMBER 2006.
- EXCAVATIONS SHALL BE EXTENDED TO AT LEAST 2.5 FEET BELOW FINISH GRADE TO ALLOW FOR WALL EMBEDMENT AND LEVELING COURSE. THE BASE OF THE EXCAVATION SHALL BE INCLINED BACK AWAY FROM THE FACE OF THE ROCKERY, AT 5 PERCENT.
- ROCKS SHOULD BE PLACED IN ROWS SUCH THAT BASE ROCKS CONSIST OF LARGEST DIAMETER AND WEIGHT ROCKS AND EACH SUCCEEDING ROW CONSISTS OF SMALLER DIAMETER ROCKS. BASE ROCKS SHALL BE EQUAL TO ABOUT 1/2 THE WALL HEIGHT AND NOT LESS THAN 4 FEET IN DIAMETER. CAP ROCKS SHALL BE EQUAL TO ABOUT 1/3 THE WALL HEIGHT AND NOT LESS THAN 19 INCHES IN DIAMETER.
- ROCKS SHALL BE HARD, ANGULAR AND DURABLE. THEY MUST BE ABLE TO RESIST PHYSICAL, CLIMATIC, AND CHEMICAL DECOMPOSITION. ROCKS SHOULD BE ROUGHLY RECTANGULAR, TABULAR OR CUBIC IN SHAPE. ROUNDED COBBLES OR BOULDERS MUST NOT BE USED.
- ROCKS SHOULD BE PLACED WITH LONGEST DIMENSION PERPENDICULAR TO ROCKERY FACE. THE ROCKS SHOULD BE PLACED SUCH THAT THEY SLOPE DOWNWARD AT LEAST 5 PERCENT TOWARDS THE BACK OF THE ROCKERY.
- THE ROCKERY FACE BATTER SHOULD BE 4V:1H OR FLATTER.
 - EACH ROCK SHOULD BEAR ON AT LEAST TWO OTHER ROCKS.
 - EACH ROCK SHOULD HAVE AT LEAST THREE BEARING POINTS - TWO IN FRONT AND ONE IN BACK.
 - THE FRONT-MOST BEARING POINTS FOR EACH ROCK SHOULD BE WITHIN 150MM (6IN) OF THE AVERAGE FACE OF THE ROCKERY.
 - THE REAR OF THE ROCKS SHOULD BE ALIGNED ALONG AN IMAGINARY VERTICAL PLANE. IF ROCKS LARGER THAN THE MINIMUM SPECIFIED BASE WIDTH (B) ARE USED, THEY CAN EXTEND BEYOND THIS IMAGINARY PLANE PROVIDED THEY DO NOT INTERFERE WITH ROCKERY DRAINAGE OR REINFORCED ZONE.
- THERE SHOULD BE NO VERTICAL COLUMNS OF ROCK OR CONTINUOUS VERTICAL JOINTS BETWEEN MULTIPLE ROWS OF ROCKS.
- ROCK WIDTH SHALL BE LARGE ENOUGH TO EXTEND FROM THE FRONT FACE TO THE BACK OF THE ROCKERY AT EACH LEVEL.
- PLACE BASE, FACING AND CAP ROCKS SO THAT THEIR HEIGHT DIMENSION IS NOT GREATER THAN THEIR WIDTH. THE LONGEST DIMENSION OF THE BASE, FACING, AND CAP ROCKS IS PERPENDICULAR TO FACE OF ROCKERY.
- VOIDS BETWEEN ROCKS SHOULD BE AVOIDED AS MUCH AS POSSIBLE. HOWEVER, IN AREAS WHERE VOID EXIST, THE VOID SHALL BE CHINKED. CHINK ROCKS SHOULD CONSIST OF SPALLS FROM THE PARENT (FACING) ROCK. CHINK ROCKS SHOULD NOT BE MOVABLE BY HAND AND SHOULD BE GROUTED IN PLACE WHERE APPROPRIATE. CHINKING ROCKS SHOULD NOT BE USED AS A MEANS OF SUPPORT FOR OVERLY FACING ROCKS.
- CAP ROCKS ARE THE TOP ROW OF FACING ROCKS FOR ROCKERIES. CAP ROCKS ARE TYPICALLY SMALLER AND FLATTER THAN THE OTHER FACING ROCKS USED IN THE ROCKERY. CAP ROCKS SHALL HAVE A WEIGHT OF AT LEAST 200 POUNDS. CAP ROCKS SHOULD NOT BE MOVABLE BY HAND. REGARDLESS OF SIZE, CAP ROCKS SHALL BE GROUTED IN PLACE TO REDUCE THE POTENTIAL FOR DISLOGGING.
- CRUSHED ROCK SHOULD CONSIST OF CRUSHED, WASHED, HARD, DURABLE ROCK MEETING THE FOLLOWING GRADATION REQUIREMENTS:

CRUSHED ROCK	
SIEVE SIZE	PERCENT FINER BY WEIGHT
150MM (6IN)	100
100MM (4 IN)	0.0 - 25
19.0MM (3/4 IN)	0.0 - 15
4.75MM (NO. 4)	0.0 - 5.0
75MM (NO. 200)	0.0 - 2.0
- WHERE LOOSE, SOFT, OR OTHERWISE UNSUITABLE FOUNDATION SOIL CONDITIONS ARE ENCOUNTERED, CONTACT THE ENGINEER FOR SUPPLEMENTAL RECOMMENDATIONS.
- DISCHARGE OUTLET PIPES TO A PROTECTED OUTLET OR OTHER PERMANENT DRAINAGE STRUCTURE AT LOW POINTS IN THE ROCKERY. DRAIN OUTLETS SHOULD NOT EMPTY INTO STORM DRAINS THAT ARE DESIGNED TO BACK-UP DURING HEAVY FLOWS.
- STABILITY OF TEMPORARY CUT SLOPES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT CONSTRUCT ROCKERIES OR SLOPES EXCEEDING THE HEIGHTS SHOWN ON THE PLAN.

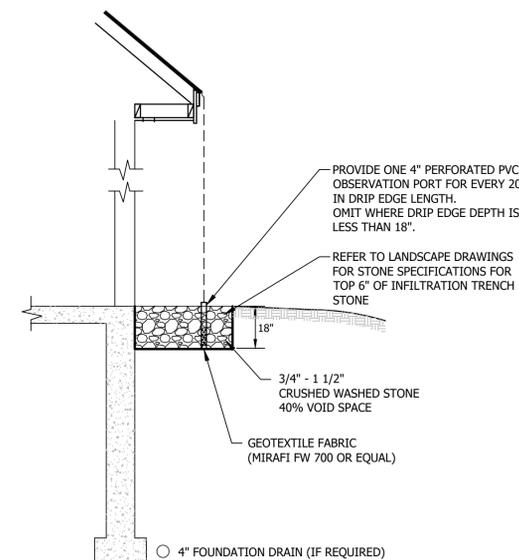


STABILIZED CONSTRUCTION EXIT

NOT TO SCALE

CONSTRUCTION SEQUENCE

- PREPARE AN EROSION CONTROL PLAN OR A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- INSTALL CONSTRUCTION ENTRANCE, SEE DETAIL.
- CUT AND CLEAR TREES WITHIN THE CLEARING LIMITS.
- INSTALL SEDIMENT FENCES, ROCK CHECK DAMS, AND OTHER APPROPRIATE EROSION CONTROL MEASURES AT LOCATIONS SHOWN ON THE PLANS AND AS NEEDED.
- GRUB SITE WITHIN GRADING LIMITS.
- STRIP AND STOCKPILE TOPSOIL AND INSTALL EROSION CONTROL MEASURES.
- INSTALL/ADJUST SEDIMENT FENCE, CHECK DAMS, AND HAYBALES, AS REQUIRED.
- CONSTRUCT PERMANENT STORMWATER CONTROLS AS SOON AS PRACTICAL. DO NOT DIRECT STORMWATER TOWARD TREATMENT BASINS, PONDS, SWALES, DITCHES AND LEVEL SPREADERS UNTIL THEY HAVE BEEN STABILIZED.
- PROCEED WITH WORK, LIMITING THE DURATION OF DISTURBANCE. THE MAXIMUM OF UNCOVERED DISTURBED EARTH AT ANY ONE TIME IS FIVE ACRES. THE MAXIMUM LENGTH OF TIME THAT DISTURBED EARTH MAY BE LEFT UNSTABILIZED IS 45 DAYS.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- INSPECT ALL EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER EVERY 0.5 INCHES OF PRECIPITATION. MAINTAIN SEDIMENT FENCE, SEDIMENT TRAPS, HAY BALES, ETC., AS NECESSARY.
- PAVE ROADWAYS AND/OR PARKING AREAS.
- PLACE TOPSOIL, SEED AND MULCH.
- COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES.
- MONITOR THE SITE AND MAINTAIN STRUCTURES AS NEEDED UNTIL FULL VEGETATION IS ESTABLISHED.



INFILTRATION STONE DRIP EDGE DETAIL

NOT TO SCALE

NH STATE PARKS

Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CONSTRUCTION

Graphic Scale

North

Scale: Varies

Date: March 15, 2024

Drawn By: SJB

Checked By: WTD

Issues:

No.	Description	Date
1	Name	00/00/00

Title

**DETAILS
MISCELLANEOUS**

Sheet Number:

C5.01

Project Number: 23045001

File: 220838_base-01_pawtuckaway.dwg

APPLICABLE BUILDING/LIFE SAFETY CODES:
 - NH STATE BUILDING CODE - RSA 155-A
 - INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION, AS AMENDED
 - NEW HAMPSHIRE SAF-C 6000 FIRE CODE
 - NFPA 1 FIRE CODE - 2018 EDITION
 - NFPA 101 LIFE SAFETY CODE - 2018 EDITION - CHAPTER 36, "NEW MERCANTILE"
 - INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2018 EDITION
 - INTERNATIONAL PLUMBING CODE (IPC) - 2018 EDITION
 - INTERNATIONAL MECHANICAL CODE (IMC) - 2018 EDITION
 - NATIONAL ELECTRIC CODE (NEC) - 2020

PROPOSED FACILITY:

- **OVERALL FACILITY FIRE PROTECTION**
 - SPRINKLER SYSTEM NOT REQUIRED (IBC 903.2.7)
 - FIRE EXTINGUISHERS COMPLYING WITH IBC 906.1
 - **OCCUPANCY CLASSIFICATION:** IBC - BUSINESS (B); LSC - CHAPTER 36, "NEW BUSINESS OCCUPANCIES"

- **CONSTRUCTION CLASSIFICATION:** TYPE - VB (COMBUSTIBLE, NO RATING)

- **BUILDING STORIES & HEIGHT** (IBC TABLES 504.3 & 504.4)

- ALLOWABLE STORIES: 2 STORIES
 - PROPOSED STORIES: 1 STORY = **COMPLIES**
 - ALLOWABLE HEIGHT: 40'-0" (TO AVERAGE HEIGHT OF HIGHEST ROOF PLANE)
 - PROPOSED HEIGHT: 15'-0" = **COMPLIES**

- **BUILDING AREA** (IBC TABLE 506.2)

- ALLOWABLE AREA (1ST FLOOR PLAN): **9,000 GSF**
 - PROPOSED AREA (1ST FLOOR PLAN): **1,431 GSF** = **COMPLIES**

- STREET FRONTAGE INCREASE (IBC 506.2) - **NOT REQUIRED**
 - SPRINKLER INCREASE (IBC 506.3) - **NOT REQUIRED**

- ENCLOSED FLOOR AREA: 747 SF
 - COVERED PORCH AREA: 684 SF
 - **TOTAL PROPOSED GROSS FLOOR AREAS: 1,431 SF**

FIRE RESISTANCE RATINGS REQUIREMENTS:

- **BUILDING ELEMENTS** (TABLE 601)
 - PRIMARY STRUCTURAL FRAME: 0 HR
 - EXTERIOR BEARING WALLS: 0 HR
 - INTERIOR BEARING WALLS: 0 HR
 - EXTERIOR NON-BEARING WALLS: 0 HR
 - INTERIOR NON-BEARING WALLS: 0 HR
 - FLOOR CONSTRUCTION: 0 HR
 - ROOF CONSTRUCTION: 0 HR

MEANS OF EGRESS REQUIREMENTS:

- MAXIMUM TRAVEL DISTANCE: 200 FEET (38.2.6.3)
 - MAXIMUM DEAD-END CORRIDOR LENGTH: 20 FEET (38.2.5.2)
 - MAXIMUM COMMON PATH OF TRAVEL: 75 FEET (38.2.5.3.1)
 - INTERIOR FINISH, FLOORS: NO REQUIREMENTS (38.3.3.3)
 - INTERIOR FINISH, WALLS AND CEILING: A, B, or C (38.3.3)

ENERGY CODE - MINIMUM THERMAL ENVELOPE REQUIREMENTS:

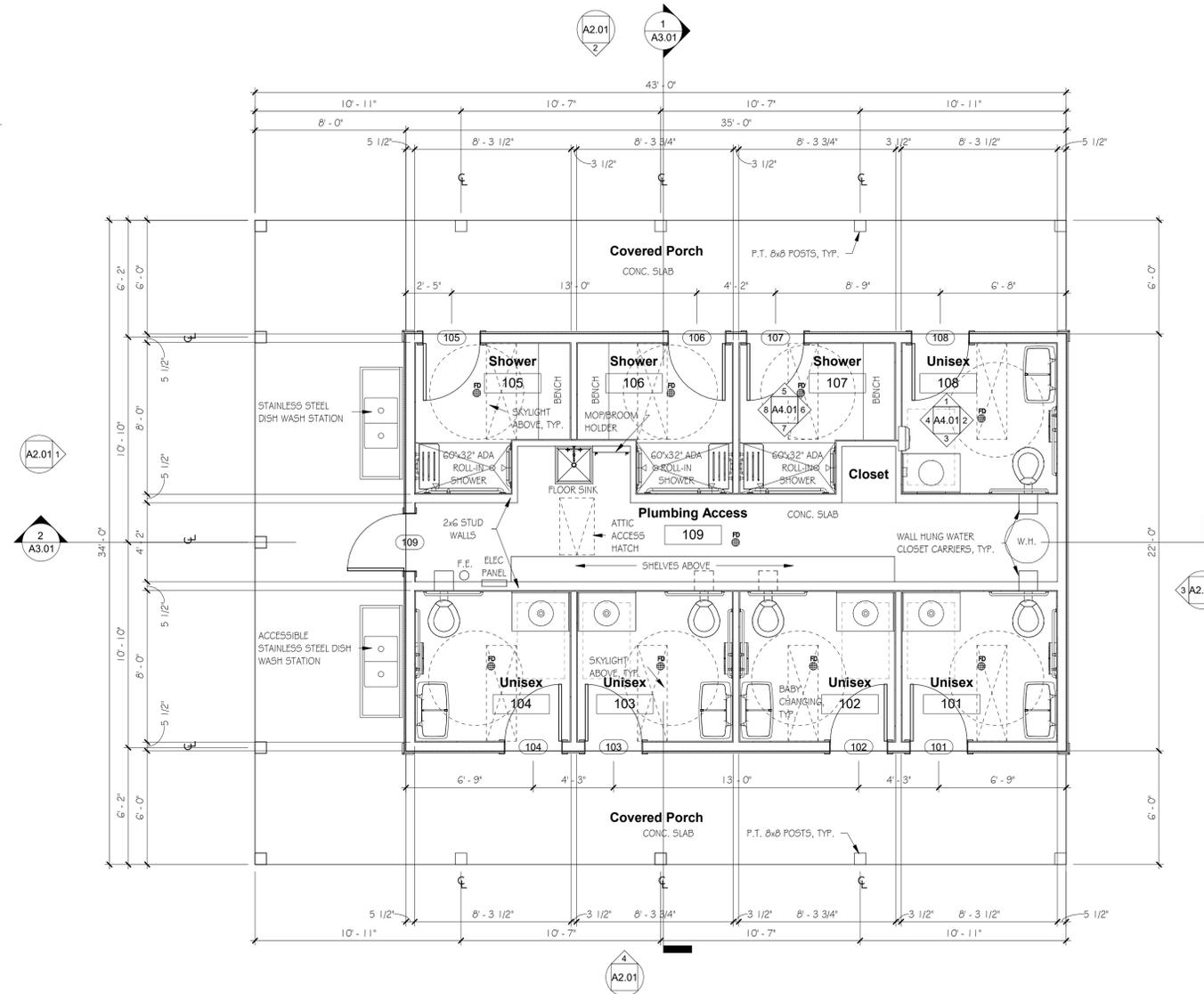
- BUILDING IS UNWINTERIZED

PLUMBING REQUIREMENTS:

- WATER CLOSETS: 5 UNISEX
 - LAVATORIES: 5 UNISEX
 - SHOWERS: 3
 - SERVICE SINK: 1

- ACCESSIBLE TOILET ROOMS: ALL NEW TOILET & SHOWER ROOMS ARE REQUIRED TO BE ACCESSIBLE (IBC CHAPTER 11). NH AMENDMENT TO IBC: SINGLE OCCUPANCY TOILETS MAY BE UNISEX PROVIDED THE NUMBER OF WATER CLOSETS COMPLIES WITH TABLE 2902.1.

CODE SUMMARY



A5 MAIN FLOOR PLAN
 Scale: 1/4" = 1'-0"

Enclosed floor area: 747 sq. ft.
 Covered porch area: 684 sq. ft.
 Total building area: 1,431 sq. ft.

REVIEW SET
 MAR. 8, 2023

NOT FOR CONSTRUCTION

HVAC, Elec. & Plumb. Engineer:
 Charles P. Buckley, P.E.
 500 Depot Street
 Rumney, NH 03266
 tel: (603) 786-9992

Structural Engineer:
 Fisher Engineering, P.C.
 686 Belknap Mountain Road
 Gilford, NH 03249
 tel: (603) 528-7641

NH STATE PARKS
 Campground Expansion Project PII
 Pawtuckaway State Park
 7 Pawtuckaway Road
 Nottingham, NH
 03290

Issue

100% CHECK SET

Graphic Scale

North

Scale: As indicated

Date: Mar. 15, 2025

Drawn By: MR

Checked By: WD

Issues:

No.	Description	Date

Title

MAIN FLOOR PLAN

Sheet Number:

A1.01

Project Number: 2136A

File:

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HVAC, Elec. & Plumb. Engineer:
Charles P. Buckley, P.E.
500 Depot Street
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NH STATE PARKS

Campround Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CHECK SET

Graphic Scale

North

Scale: 1/4" = 1'-0"

Date: Mar. 15, 2025

Drawn By: MR

Checked By: WD

Issues:

No.	Description	Date

Title

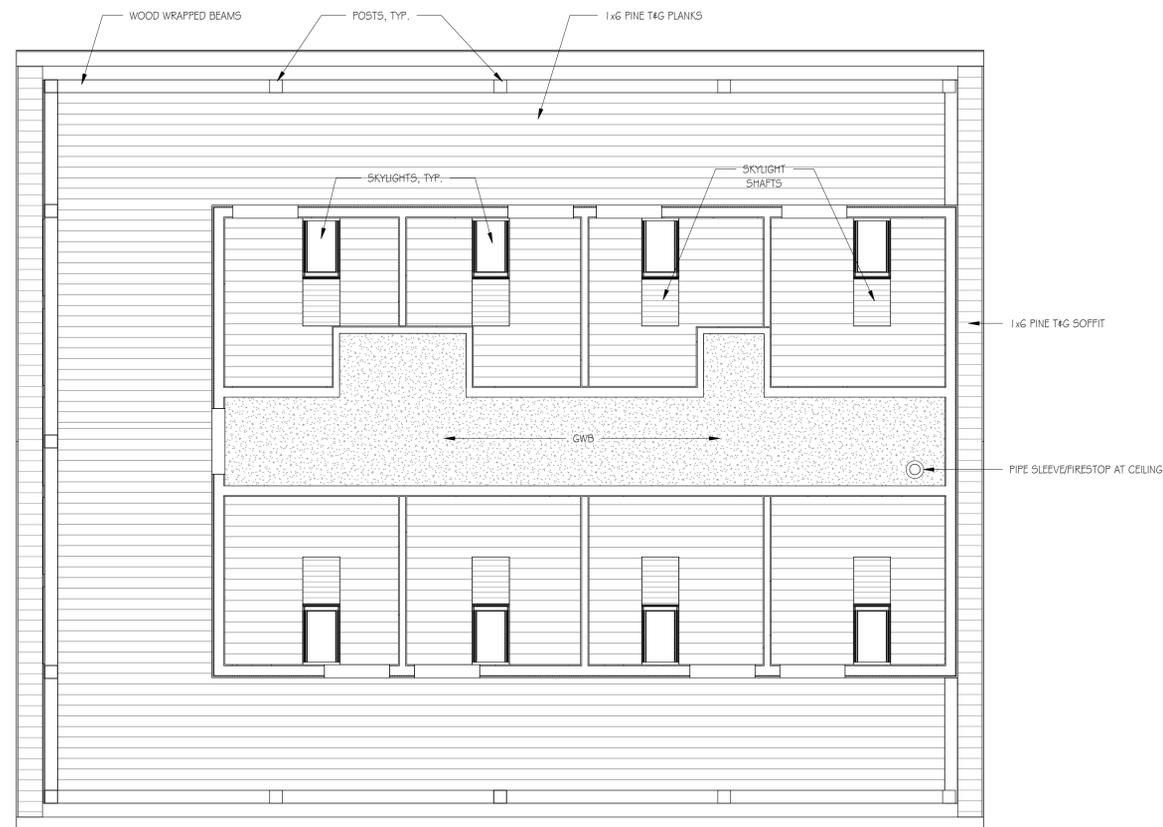
REFLECTED CEILING PLAN &
ROOF PLAN

Sheet Number:

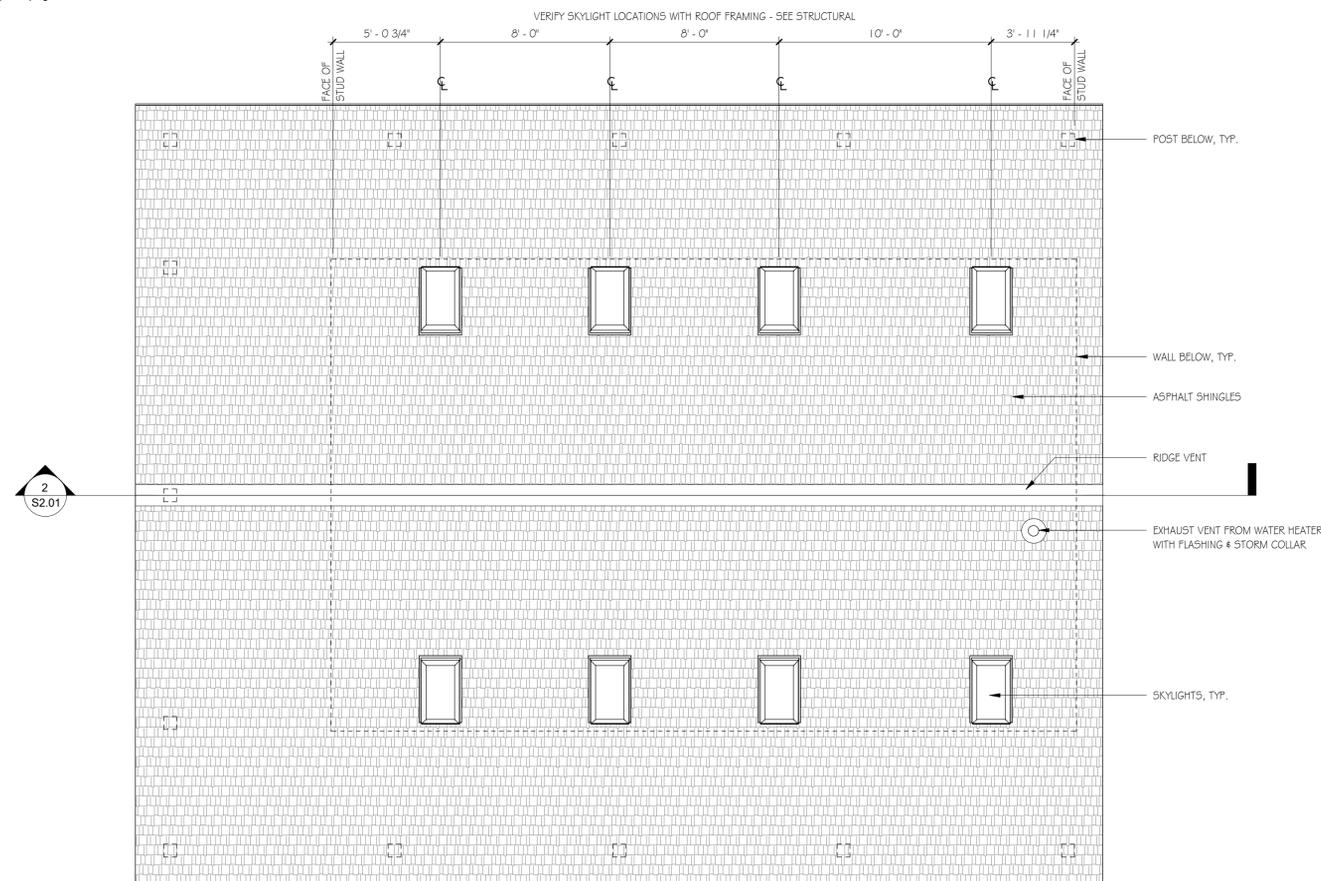
A1.02

Project Number: 2136A

File:



2 MAIN LEVEL REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"



1 ROOF PLAN
Scale: 1/4" = 1'-0"

REVIEW SET

MAR. 8, 2023

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HVAC, Elec. & Plumb. Engineer:
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NH STATE PARKS

Camptown Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CHECK SET

Graphic Scale

North

Scale: 1/4" = 1'-0"

Date: Mar. 15, 2025

Drawn By: MR

Checked By: WD

Issues:

No.	Description	Date

Title

EXTERIOR ELEVATIONS

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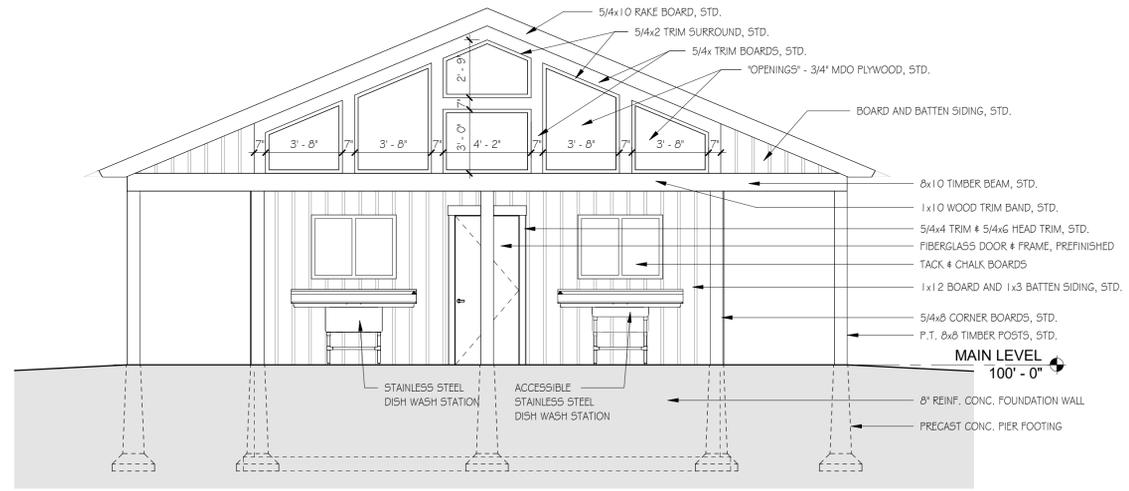
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Project Number: 2136A

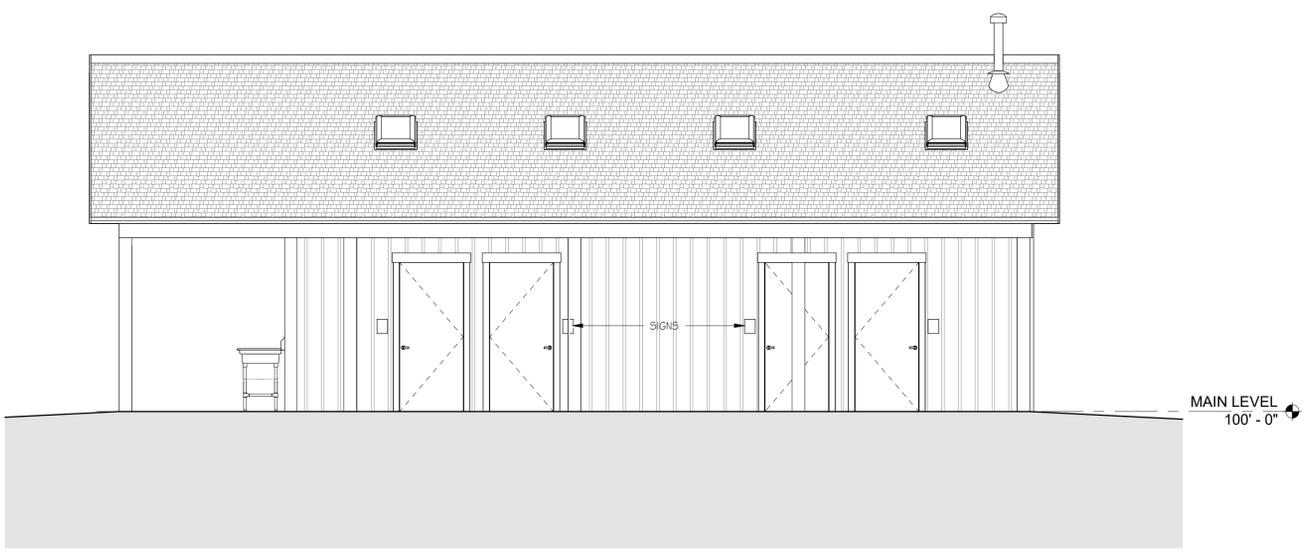
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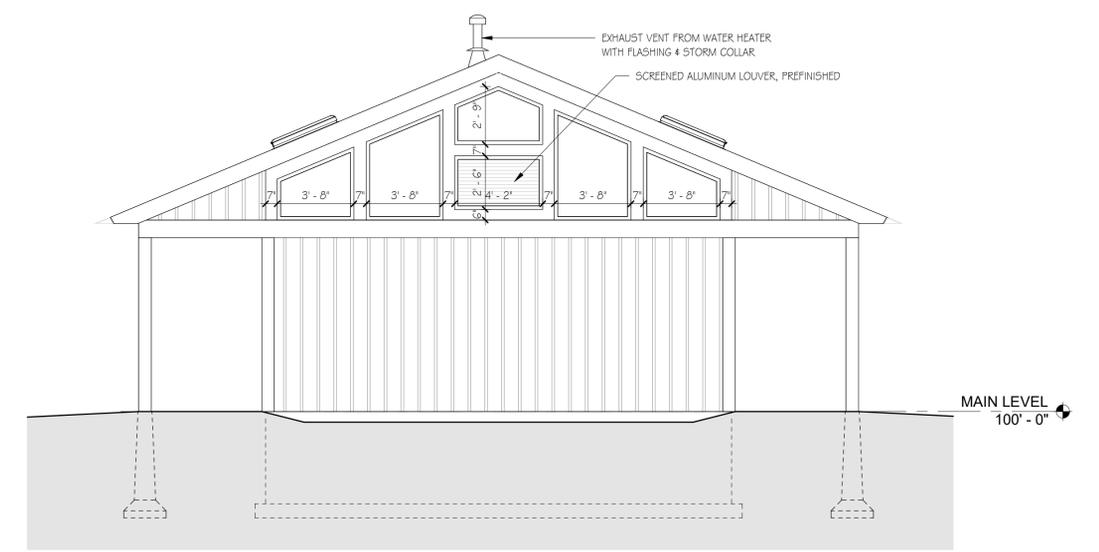
2 LEFT ELEVATION
Scale: 1/4" = 1'-0"



1 FRONT ELEVATION
Scale: 1/4" = 1'-0"



4 RIGHT ELEVATION
Scale: 1/4" = 1'-0"



3 REAR ELEVATION
Scale: 1/4" = 1'-0"

HVAC, Elec. & Plumb. Engineer:
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NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CHECK SET

Graphic Scale

North

Scale: As indicated

Date: Mar. 15, 2025

Drawn By: MR

Checked By: WD

Issues:

No.	Description	Date

Title

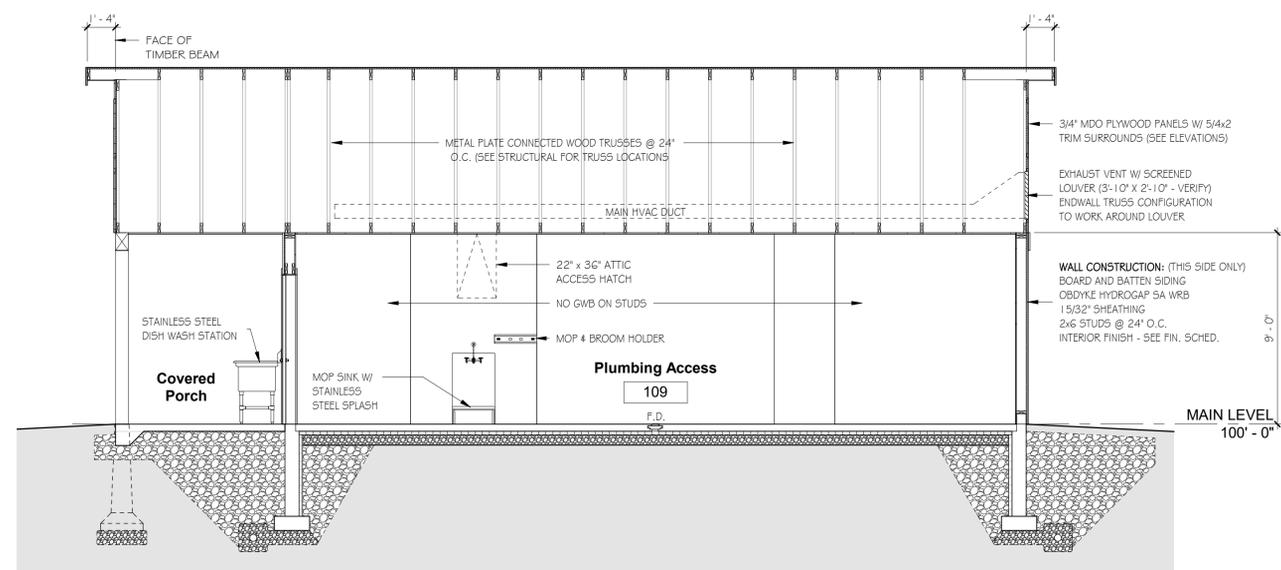
BUILDING & WALL SECTIONS

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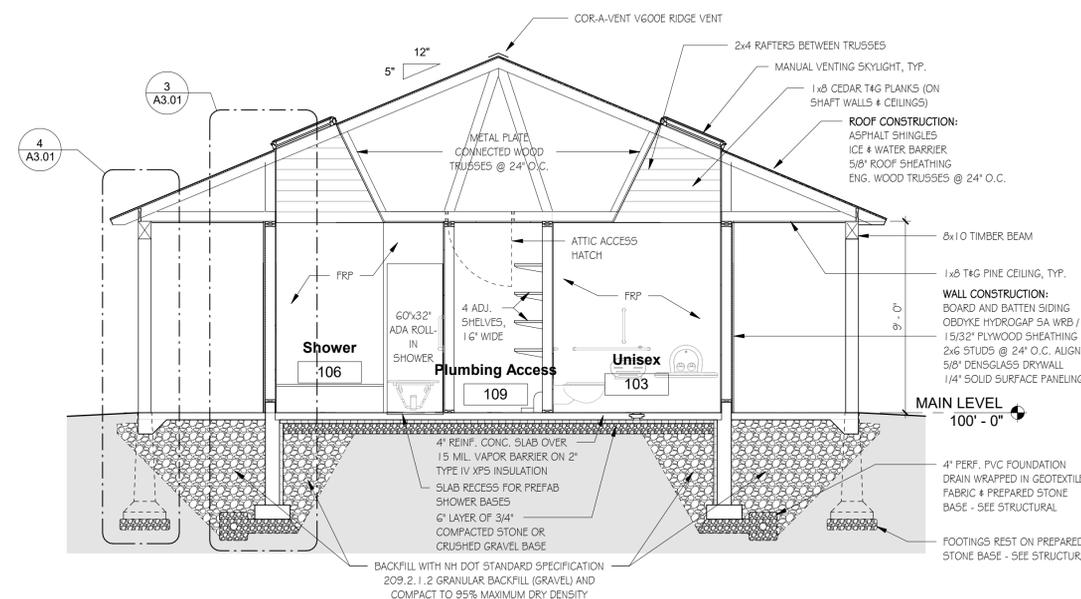
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Project Number: 2136A

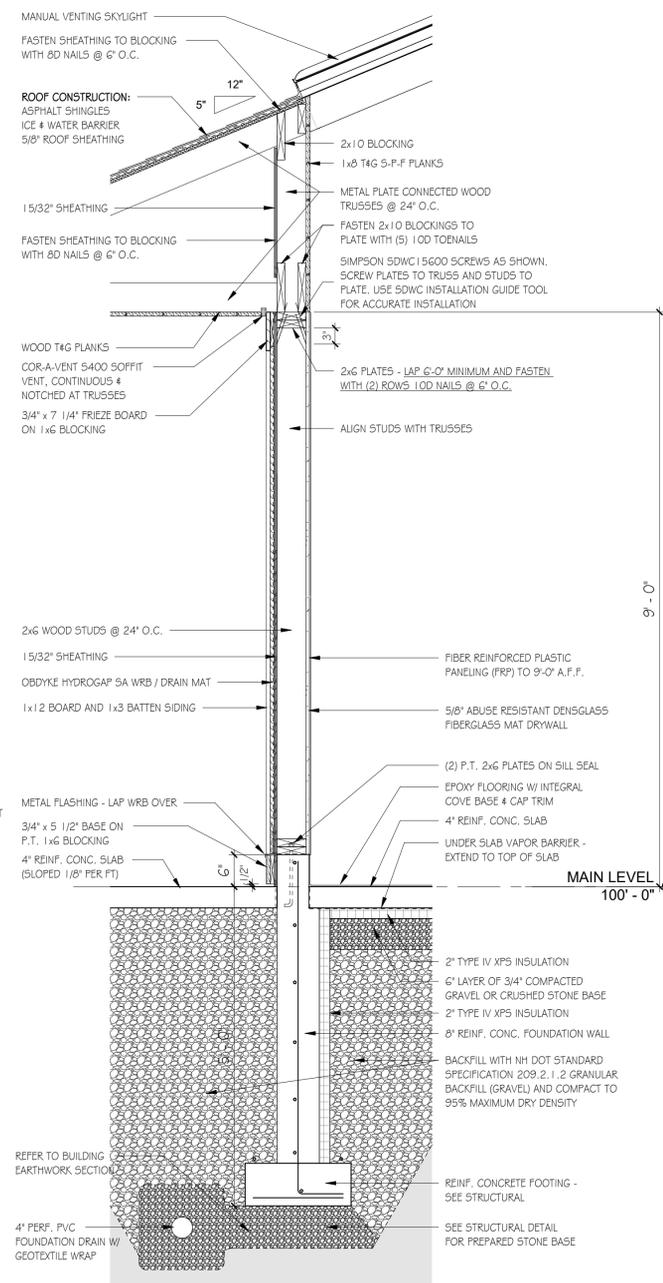
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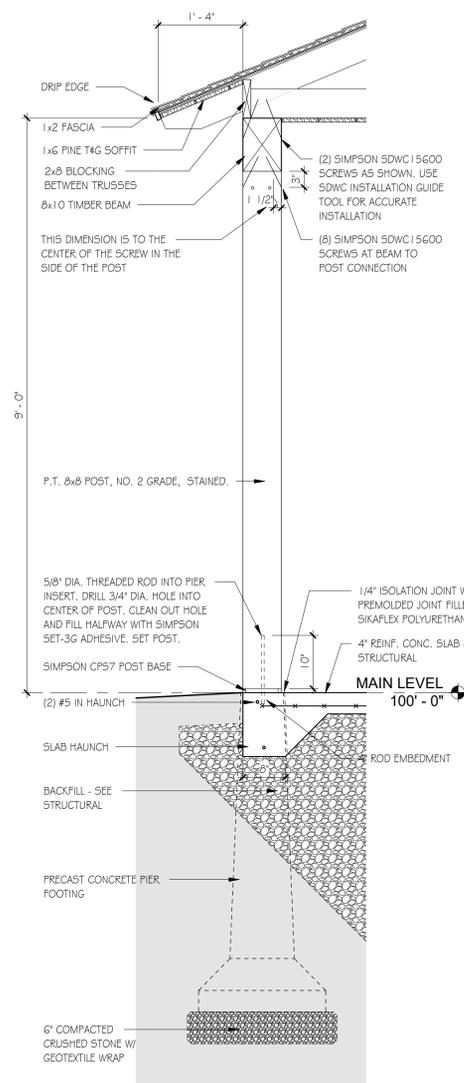
2 BUILDING SECTION B
Scale: 1/4" = 1'-0"



1 BUILDING SECTION 1
Scale: 1/4" = 1'-0"



3 WALL SECTION 1
Scale: 3/4" = 1'-0"



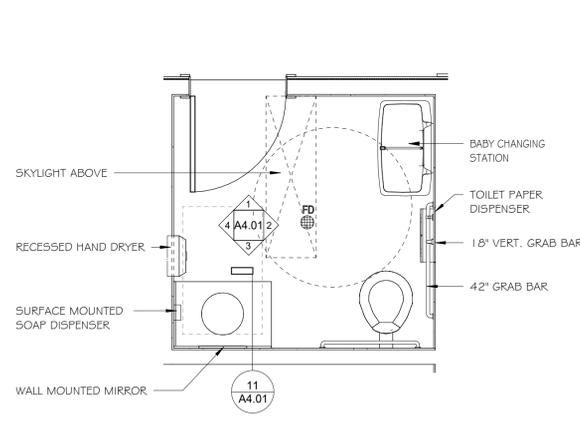
4 WALL SECTION 2
Scale: 3/4" = 1'-0"

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MAR. 8, 2023

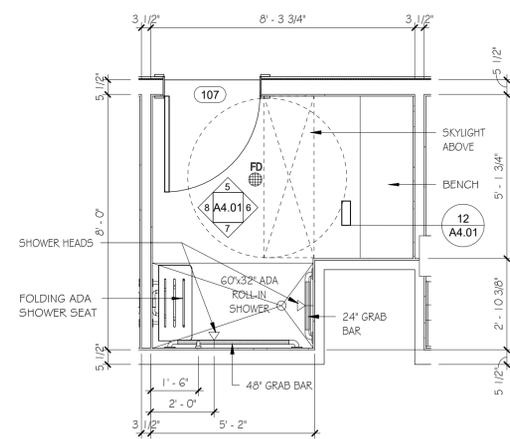
NOT FOR CONSTRUCTION

HVAC, Elec. & Plumb. Engineer:
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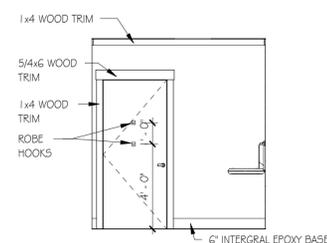
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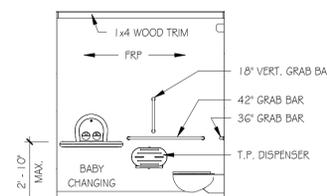
9 UNISEX - ENLARGED PLAN
Scale: 3/8" = 1'-0"



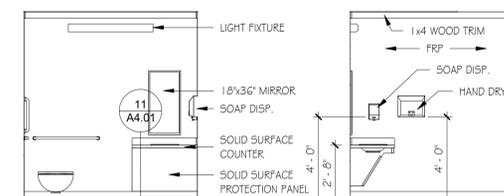
10 SHOWER - ENLARGED PLAN
Scale: 3/8" = 1'-0"



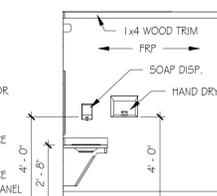
1 UNISEX - ELEVATION 1
Scale: 1/4" = 1'-0"



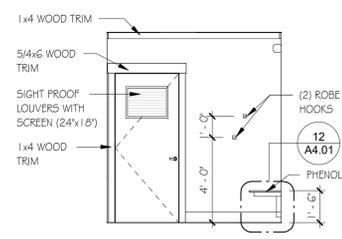
2 UNISEX - ELEVATION 2
Scale: 1/4" = 1'-0"



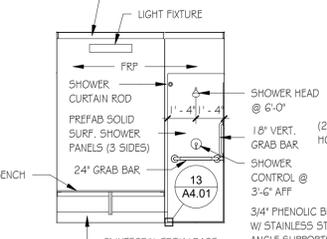
3 UNISEX - ELEVATION 3
Scale: 1/4" = 1'-0"



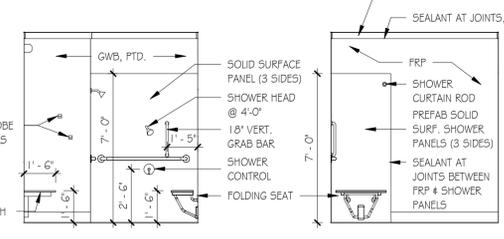
4 UNISEX - ELEVATION 4
Scale: 1/4" = 1'-0"



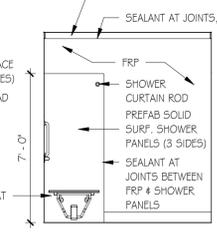
5 SHOWER - ELEVATION 5
Scale: 1/4" = 1'-0"



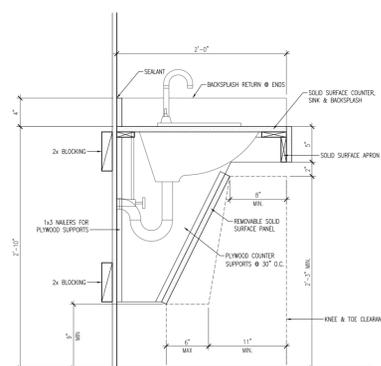
6 SHOWER - ELEVATION 6
Scale: 1/4" = 1'-0"



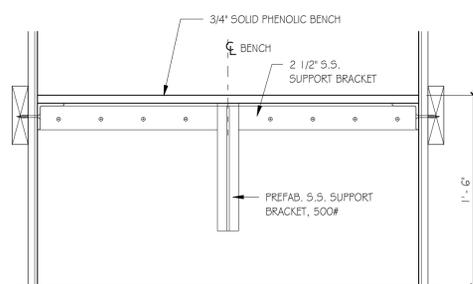
7 SHOWER - ELEVATION 7
Scale: 1/4" = 1'-0"



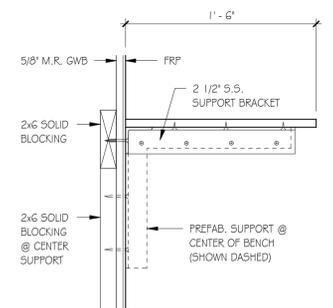
8 SHOWER - ELEVATION 8
Scale: 1/4" = 1'-0"



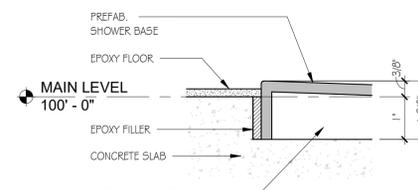
11 TYPICAL SINK COUNTER DETAIL
Scale: 1" = 1'-0"



12 TYPICAL SHOWER BENCH DETAIL
Scale: 1 1/2" = 1'-0"



13 SHOWER BASE DETAIL
Scale: 6" = 1'-0"



TP8	MR1	SD3	RH1	GB2	HD2	SS2	BH1
10 28 00 LARGE ROLL TOILET PAPER DISPENSER	10 28 00 MIRROR	10 28 00 SOAP DISPENSER	10 28 00 ROBE HOOK	10 28 00 GRAB BAR	10 28 00 HAND DRYER	10 28 00 SHOWER SEAT	10 28 00 MOP AND BROOM HOLDER
SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED
PLAN	PLAN	PLAN	PLAN	PLAN	PLAN	PLAN	PLAN
ELEVATION	ELEVATION	ELEVATION	SIDE ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION

ACCESSORIES - TOILETS & SHOWERS

NOTE: SHAPES AND CONFIGURATIONS OF ACCESSORIES DO NOT NECESSARILY MATCH PRODUCTS IN ELEVATIONS.

NH STATE PARKS
Campground Expansion Project PII
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

Issue

100% CHECK SET

Graphic Scale

North

Scale: As indicated

Date: Mar. 15, 2025

Drawn By: MR

Checked By: WD

Issues:

No.	Description	Date

Title

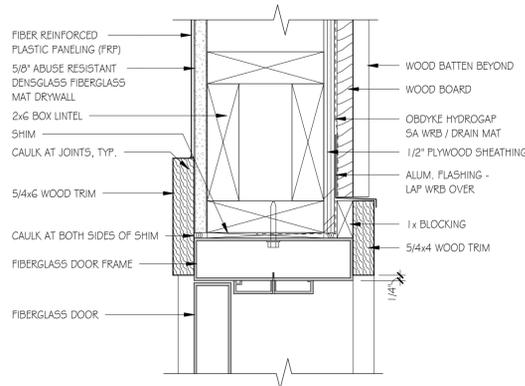
INTERIOR ELEVATIONS

Sheet Number:

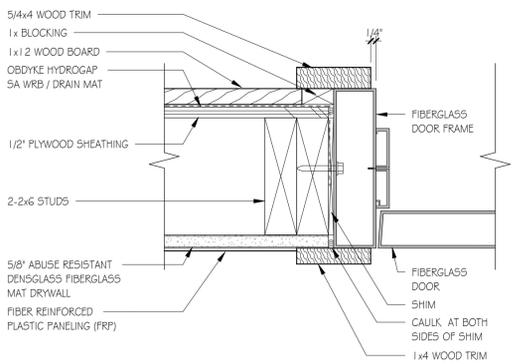
A4.01

Project Number: 2136A

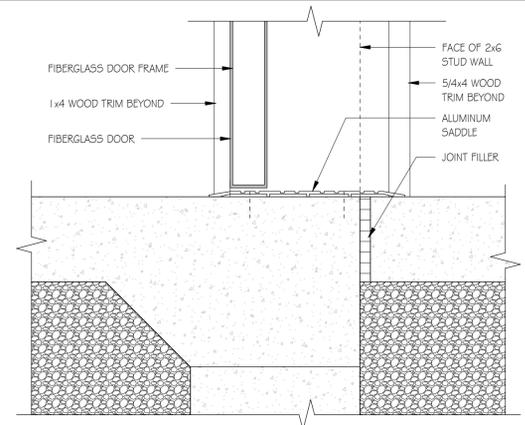
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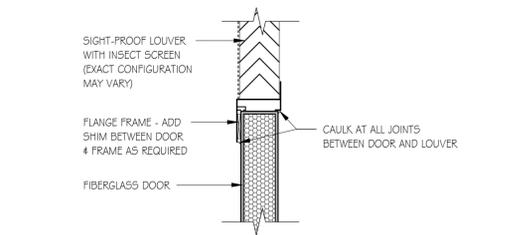
1 DOOR HEAD DETAIL
Scale: 3" = 1'-0"



2 DOOR JAMB DETAIL
Scale: 3" = 1'-0"



3 DOOR SILL DETAIL
Scale: 3" = 1'-0"



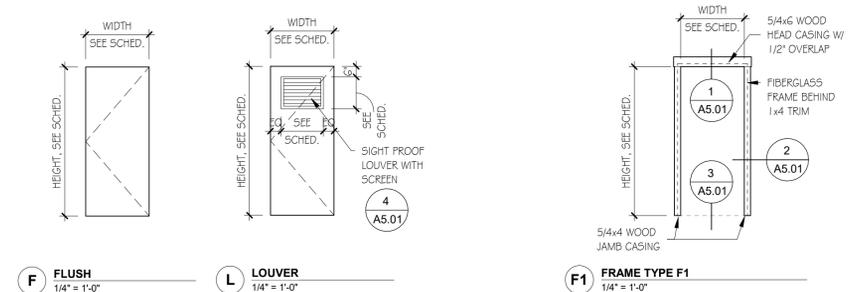
4 DOOR LOUVER DETAIL
Scale: 3" = 1'-0"

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COMMENTS
101	Unisex	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	
102	Unisex	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	
103	Unisex	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	
104	Unisex	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	
105	Shower	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	SOLID SURFACE SHOWER WALL PANELS
106	Shower	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	SOLID SURFACE SHOWER WALL PANELS
107	Shower	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	SOLID SURFACE SHOWER WALL PANELS
108	Unisex	EPOXY	INTEGRAL EPOXY	FRP ON GWB	FRP ON GWB	FRP ON GWB	FRP ON GWB	1x6 T&G PLANKS	
109	Plumbing Access	SEALED CONCRETE	-	-	-	-	-	5/8" GWB	NO GWB ON STUDS

DOOR SCHEDULE

OPENING	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	FRAME MATERIAL	COMMENTS
101	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	
102	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	
103	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	
104	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	
105	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	24" x 18" LOUVERS WITH SCREENS
106	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	24" x 18" LOUVERS WITH SCREENS
107	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	24" x 18" LOUVERS WITH SCREENS
108	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	
109	3' - 0"	7' - 0"	1 3/4"	SOLID CORE	FIBERGLASS	FIBERGLASS	



DOOR TYPES

FRAME TYPES

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	TYPE	MODEL	COMMENTS	COUNT
A	1' - 9"	3' - 17/8"		VS	SKYLIGHT BASIS-OF-DESIGN: VELUX VS-C04	8

No.	Description	Date

GENERAL STRUCTURAL NOTES

THE CONTRACTOR SHALL COORDINATE WORK SHOWN ON THE STRUCTURAL DRAWINGS WITH THOSE OF OTHER TRADES PRIOR TO THE START OF WORK. CONTACT THE ARCHITECT AND ENGINEER IN THE EVENT ANY ERRORS, OMISSIONS, DISCREPANCIES OR CONFLICTS BETWEEN THE TRADES ARE DISCOVERED PRIOR TO PROCEEDING WITH THE WORK TO AVOID UNNECESSARY DELAYS AND/OR CORRECTIVE WORK. BY USING THESE PLANS, THE CONTRACTOR AGREES TO INDEMNIFY, DEFEND, AND HOLD THE ENGINEER HARMLESS FOR ANY AND ALL CLAIMS ARISING OUT OF THE CONTRACTOR'S FAILURE TO FOLLOW THE PLANS AND SPECIFICATIONS, OR THE DESIGN INTENT CONVEYED, OR FOR FAILURE TO OBTAIN AND FOLLOW THE ENGINEER'S GUIDANCE.

NOTES AND DETAILS SHOWN ARE INTENDED TO BE TYPICAL FOR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AS-BUILT OR OTHERWISE, PRIOR TO PROCEEDING WITH THE WORK.

THE DRAWINGS ARE INTENDED TO SHOW THE DESIGN CONCEPT AND ARE NOT TO BE USED AS SHOP DRAWINGS. COMMENTS MADE ON THE SHOP DRAWINGS, OR ON OTHER SUBMITTALS, DURING THE REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. REVIEW IS SPECIFICALLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING THE FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS OR HER WORK WITH THAT OF ALL OTHER TRADES; AND COMPLETING THE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING STRUCTURES INCLUDING BUT NOT LIMITED TO: PROHIBITING CRANES OR OTHER HEAVY EQUIPMENT FROM BEING PLACED ON SLABS OR ADJACENT TO FOUNDATIONS WALLS, PROHIBITING THE PLACEMENT OF CONCENTRATED LOADS ON SLABS OR FLOORS, AND PROHIBITING THE MODIFICATION OF STRUCTURAL MEMBERS IN ANY WAY OTHER THAN AS SHOWN ON THE STRUCTURAL DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BRACING AND SHORING REQUIRED TO COMPLETE THE WORK. THIS RESPONSIBILITY INCLUDES RETAINING AN ENGINEER TO DESIGN ALL NECESSARY BRACING, SHORING OR UNDERPINNING FOR EXISTING STRUCTURES.

STRUCTURAL DESIGN CRITERIA

THE STRUCTURAL DESIGN IS BASED ON THE 2018 INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL COMPLY WITH THIS AND ALL OTHER APPLICABLE CODES AND STANDARDS.

LIVE LOADS: SLAB-ON-GRADE 100 PSF

SNOW:	GROUND SNOW LOAD (Pg)	65
ELEVATION ADJUSTED (Pg)		63 PSF
FLAT-ROOF SNOW LOAD (Pf)		55 PSF
SNOW EXPOSURE FACTOR (Ce)		1.0
SNOW LOAD IMPORTANCE FACTOR (I)		1.0
THERMAL FACTOR (Ct)		1.2

WIND: BASIC WIND SPEED (3-SECOND GUST)	90 MPH
RISK CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	0.18

SEISMIC: RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1.0
SHORT PERIOD SPECTRAL RESPONSE ACCEL.	0.377
1.0 SECOND SPECTRAL RESPONSE ACCEL.	0.081
SITE CLASS	D
DESIGN SHORT PERIOD SPECTRAL RESP. COEF.	0.376
DESIGN 1.0 SECOND SPECTRAL RESP. COEF.	0.129
SEISMIC DESIGN CATEGORY	C
RESPONSE MODIFICATION FACTOR	6.5
SEISMIC BASE SHEAR	0.06W
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	LIGHT FRAME WALLS WITH SHEAR PANELS
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION NOTES

FOOTINGS AND SLABS HAVE BEEN DESIGNED TO BEAR ON SOILS WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF PER THE GEOTECHNICAL ENGINEERING REPORT BY SW COLE ENGINEERING, INC DATED OCTOBER 16, 2023. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL RECOMMENDATIONS REGARDING SUB-GRADE PREPARATION, FILL AND COMPACTION REQUIREMENTS, DEWATERING, AND TEST PIT INFORMATION.

EXCAVATION, FILL PLACEMENT, AND COMPACTION IS TO BE PERFORMED IN THE DRY AND IN UNFROZEN GROUND. THE CONTRACTOR SHALL PERFORM DEWATERING AS REQUIRED TO MAINTAIN THE GROUNDWATER LEVEL 1 FOOT BELOW THE BOTTOM OF THE EXCAVATION. CONTACT THE ENGINEER IF UNSTABLE, SATURATED OR WEAVING SOILS ARE ENCOUNTERED.

REMOVE ALL DELETERIOUS MATERIALS SUCH AS EXISTING FILL MATERIAL, TOP SOIL, BOULDERS, STUMPS AND OTHER ORGANICS FROM BENEATH NEW SLABS AND FOOTINGS. CARE SHALL BE TAKEN NOT TO DISTURB SOILS BELOW LINES AND GRADES REQUIRED FOR STRUCTURAL FILL PLACEMENT OR FOOTING BEARING.

THE CONTRACTOR SHALL PROTECT FOOTING AND SLAB BEARING SURFACES FROM FREEZING, BOTH BEFORE AND AFTER CONCRETE PLACEMENT. SLABS AND FOOTINGS WHICH MOVE DUE TO FROST ACTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PRIOR TO FILL PLACEMENT, AND FOOTING CASTING, COMPACT THE EXISTING MATERIAL WITH A VIBRATORY ROLLER OR PLATE COMPACTOR. NOTIFY THE ENGINEER IF NOTICEABLE DEPRESSIONS OR PUMPING OCCURS DURING COMPACTION, OR IF LOOSE SANDS ARE ENCOUNTERED.

THE GEOTECHNICAL ENGINEER WHO PREPARED THE GEOTECHNICAL ENGINEERING REPORT IS TO EXAMINE SUBGRADE PRIOR TO FILL PLACEMENT AND CONCRETE PLACEMENT. THE PLACEMENT, COMPACTION AND TESTING FILL IS TO BE PERFORMED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER OR QUALIFIED SOILS OR GEOTECHNICAL ENGINEERING TECHNICIAN. THE FREQUENCY OF COMPACTION TESTING IS TO BE DETERMINED BY THE GEOTECHNICAL ENGINEER. SUBMIT COMPACTION TEST RESULTS TO THE ARCHITECT AND ENGINEER PRIOR TO CONCRETE PLACEMENT.

FILL REQUIRED BELOW FOOTINGS SHALL BE CRUSHED GRAVEL MEETING THE REQUIREMENTS OF NHDOT SPECIFICATIONS ITEM NUMBER 304.3 MODIFIED CRUSHED GRAVEL. PLACE AND COMPACT MATERIAL IN 3 TO 6-INCH LOOSE LIFTS, DEPENDING ON EQUIPMENT USED FOR COMPACTION. COMPACT MATERIAL TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557 METHOD C.

FOOTINGS ARE TO BE CENTERED UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.

FOUNDATION WALLS SHALL BE BACKFILLED SUCH THAT THE TOP OF FILL DOES NOT VARY BY MORE THAN 16-INCHES FROM ONE SIDE TO THE OTHER. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT MOVEMENT OF FOUNDATION WALLS WHILE BACKFILLING.

CONCRETE AND REINFORCING STEEL NOTES

ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" EXCEPT AS MODIFIED BY THE PROJECT SPECIFICATIONS.

CONCRETE DESIGN MIXES SHALL BE PREPARED IN ACCORDANCE WITH ACI 211. ACI 318, THE PROJECT SPECIFICATIONS AND SHALL HAVE THE FOLLOWING STRENGTHS AND PROPERTIES:

LOCATIOSTRENGTH AT 28 DAYS (f'c)

CONCRETE SLABS	3500 PSI
ALL OTHER CONCRETE	3000 PSI

(f'c) CEMENT/YD MAX W/C RATIO BY WT. MAX SLUMP

3500 PSI	564	POUNDS	0.48	5"
3000 PSI	517	POUNDS	0.55	

CONCRETE FOR WALLS AND EXTERIOR SLABS SHALL BE AIR ENTRAINED TO 6±1%.

THE CONCRETE MIX DESIGN SHALL BE BASED ON THE SLUMP AND THE W/C RATIO'S GIVEN ABOVE. PROVIDE WATER REDUCING ADMIXTURE AS REQUIRED.

REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 SPECIFICATIONS, FABRICATED IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND A.C.I. MANUAL OF STANDARD PRACTICE.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 GRADE 65 AND BE FURNISHED IN FLAT SHEETS. LAP ALL W.W.F. EDGES TWO SQUARES.

SUPPORT W.W.F. USING UPPER TYPE CONTINUOUS HIGH CHAIRS AT 3 FEET ON-CENTER TO MAINTAIN THE W.W.F. AT THE CENTER OF THE SLAB, UNLESS SHOWN OTHERWISE.

MAINTAIN THE FOLLOWING CONCRETE COVER OVER REINFORCING UNO:	
CONCRETE CAST AGAINST EARTH 3"	
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	2"
COLUMNS AND BEAMS NOT EXPOSED TO EARTH OR WEATHER	1 1/2"
SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER	3/4"

PROVIDE CORNER BARS TO MATCH SIZE AND SPACING OF ALL DISCONTINUOUS REINFORCING IN WALLS AND FOOTINGS.

ALL HOOK BARS SHALL HAVE STANDARD 90 DEGREE HOOKS WITH MAXIMUM EMBEDMENT UNLESS NOTED OTHERWISE.

REINFORCING SHALL BE SPLICED AND EMBEDDED AS FOLLOWS:

PSF BAR SIZE	SPLICE LENGTH	STRAIGHT BAR EMBEDMENT LENGTH
#3	1'-6"	1'-0"
#4	2'-0"	1'-4"
#5	2'-6"	1'-6"

PRECAUTIONS FOR CONCRETE PLACEMENT DURING COLD WEATHER

WHEN THE AVERAGE OF THE HIGHEST AND LOWEST AMBIENT TEMPERATURE IS EXPECTED TO BE BELOW 40 DEGREES F FOR MORE THAN THREE SUCCESSIVE DAYS, PRECAUTIONS AS RECOMMENDED IN ACI 306 "COLD WEATHER CONCRETING" SHALL BE TAKEN TO PREVENT CONCRETE FREEZING. THE FOLLOWING IS BASED ON ACI 306:

ADDITIONAL MIX REQUIREMENTS

- ALL CONCRETE FOR FOOTINGS AND WALLS IS TO BE AIR ENTRAINED.
- ALL CONCRETE IS TO CONTAIN A SET ACCELERATING ADMIXTURE, SUCH AS POLARSET.
- MINIMUM CONCRETE TEMPERATURE WHEN PLACED IS 55 DEGREES F.
- MAXIMUM CONCRETE TEMPERATURE WHEN PLACED IS 75 DEGREES F.

SUBGRADE REQUIREMENTS

- MINIMUM TEMPERATURE OF SUB-GRADE FOR PLACEMENT OF FOOTING AND SLAB CONCRETE IS 35 DEGREES F.
- DO NOT ALLOW FROST TO OCCUR IN FOOTING AND SLAB SUBGRADE.
- SUBGRADE WHICH IS ALLOWED TO FREEZE SHALL BE RE-COMPACTED AFTER IT THAWS.

THERMAL PROTECTION REQUIREMENTS

- THE CONCRETE PLACED SHALL BE THERMALLY PROTECTED AS INDICATED BELOW SUCH THAT THE CONCRETE SURFACE TEMPERATURE IS MAINTAINED AT A MINIMUM OF 50 DEGREES F.
- MAINTAIN PROTECTION FOR A PERIOD OF NOT LESS THAN 4 DAYS.
- MEASURE AND RECORD THE SURFACE TEMPERATURE OF THE CONCRETE AT LEAST TWICE A DAY FOR THE DURATION OF THE PROTECTION PERIOD.
- MAINTAIN PROTECTION SUCH THAT OUTSIDE AIR DOES NOT PENETRATE THE THERMAL PROTECTION.
- MAXIMUM DROP IN CONCRETE SURFACE TEMPERATURE AFTER THE REQUIRED PROTECTION PERIOD WITHIN 24 HOURS SHALL BE 40 DEGREES F.

INSULATION REQUIREMENTS DURING PROTECTION PERIOD (IN ADDITION TO R-VALUE OF FORMS:

IF THE AVERAGE EXPECTED AMBIENT TEMPERATURE IS:	USE PROTECTION WHICH PROVIDES A MINIMUM R-VALUE OF:
30 TO 40 DEGREES F	4
20 TO 29 DEGREES F	6
10 TO 19 DEGREES F	8

- PLACE INSULATION IN DIRECT CONTACT WITH CONCRETE AND FORMS.
- PROVIDE A HEATED ENCLOSURE FOR AMBIENT TEMPERATURES BELOW 10 DEGREES F.

SLABS-ON-GRADE

- A HEATED SPACE WILL BE NECESSARY.
- MAINTAIN THE CONCRETE SURFACE TEMPERATURE AT A MINIMUM OF 55 DEGREES.
- COVER SLAB WITH PLASTIC OR THERMAL BLANKETS TO PREVENT RAPID DRYING OR EXPOSURE TO HEATER EXHAUST FUMES.

SUBMITTALS AND OBSERVATIONS

SHOP DRAWINGS AND SUBMITTALS SHALL BE PREPARED IN ACCORDANCE WITH THE APPLICABLE INDUSTRY STANDARD.

THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO VERIFY THAT ALL REQUIRED SHOP DRAWINGS AND OTHER SUBMITTALS HAVE BEEN REVIEWED PRIOR TO THE START OF WORK.

THE FOLLOWING IS A LIST OF SUBMITTALS REQUIRED:

FILL MATERIALS
GRADATION TEST FOR EACH FILL TYPE AND SOURCE

CONCRETE MIXES
MIX DESIGNS AND SUBSTANTIATING DATA
MANUFACTURER'S TECHNICAL DATA FOR ADMIXTURES AND GROUT

REINFORCING STEEL
PLACING DRAWINGS

SHOP-FABRICATED WOOD TRUSSES

REFER TO SPECIFICATIONS

IN ADDITION TO THE TESTING AND INSPECTION REQUIREMENTS IN THE SPECIFICATIONS, THE CONTRACTOR IS TO COORDINATE THE ENGINEER'S OBSERVATION OF CONSTRUCTION AFTER COMPLETION OF ROUGH FRAMING.

WOOD FRAMING NOTES

WOOD FRAME CONSTRUCTION SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE. FOLLOW THE FASTENING SCHEDULE IN TABLE 2304.10.1 UNLESS NOTED OTHERWISE.

DIMENSIONED LUMBER SHALL CONFORM TO THE LATEST EDITION OF N.F.P.A. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND ITS SUPPLEMENTS. PROVIDE SPRUCE-PINE-FIR NORTH, NO. 2 GRADE OR BETTER.

EACH PIECE OF LUMBER SHALL BEAR THE GRADE MARK OF A RECOGNIZED AGENCY OR INDEPENDENT INSPECTION SERVICE CERTIFIED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE. GRADE MARK TO INDICATED SPECIES, GRADE, AND MANUFACTURER'S NUMBER.

PRESSURE TREATED LUMBER SHALL BE SOUTHERN PINE NO. 2 GRADE EXCEPT BEAMS AND POSTS SHALL BE NO. 1 GRADE, AWPA UC4A. PRESSURE TREAT WITH ACO-A OR ACO-D (NO AMMONIA) WITH A MINIMUM RETENTION OF 0.40 POUNDS PER CUBIC-FOOT IN ACCORDANCE WITH AWPA STANDARD C2/C9. JOBSITE FABRICATION CUTS AND BORINGS SHOULD BE FIELD TREATED WITH COPPER NAPHTHENATE HAVING A MINIMUM 2% METALLIC SOLUTION IN ACCORDANCE WITH AWPA STANDARD M4.

SHEATHING SHALL BE DOUGLAS FIR PLYWOOD COMPLYING WITH VOLUNTARY PRODUCT STANDARD PS 2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL USE PANELS" AND AS FOLLOWS:

WALLS:	15/32" MINIMUM APA 32/16 RATED PLYWOOD SHEATHING, EXTERIOR GRADE; OR 1/2" ADVANTECH BY HUBER.
ROOF:	19/32" MINIMUM APA 40/20 RATED SHEATHING, 5 PLY, EXTERIOR; OR 5/8" T&G ADVANTECH OR ZIP PANELS BY HUBER.

ROOF SHEATHING IS TO BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE SUPPORTS AND CONTINUOUS OVER THREE SPANS. PROVIDE A 1/8" GAP AT THE ENDS AND EDGES OF ALL PANELS. HORIZONTAL JOINTS IN WALL SHEATHING ARE TO BE BLOCKED AND NAILED.

NAIL ALL SHEATHING PANEL EDGES WITH 8d NAILS @ 6" O.C. UNO. NAIL INTERIOR AREA OF SHEATHING PANELS WITH 8d NAILS @ 12" O.C. UNO. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL NAILING REQUIREMENTS.

NAILS SHALL MEET THE REQUIREMENTS OF ASTM F1667 AND AS FOLLOWS:
8D NAILS 0.131" DIA X 2 1/2"
10D NAILS 0.148" DIA X 3"
16D NAILS 0.162" DIA X 1 1/2"

PNEUMATICALLY DRIVEN NAILS SHALL BE FULL HEAD NAILS AS MANUFACTURED BY SENCO OR STANLEY-BOSTITCH, OR EQUIVALENT. NAILS IN CONTACT WITH PRESSURE TREATED WOOD (SUCH AS SILL PLATE) SHALL BE HOT DIP GALVANIZED, ZMAX COATED OR STAINLESS STEEL. CLIPPED HEAD NAILS SHALL NOT BE USED. NAILS SHALL BE DRIVEN FLUSH WITH SURFACE. OVERDRIVEN NAILS SHALL BE REPLACED.

WOOD CONNECTOR DESIGN IS BASED ON SIMPSON STRONG-TIE COMPANY PRODUCTS. SUBSTITUTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE. ALL CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED, STAINLESS STEEL, OR Z-MAX COATED.

STEEL FOR BOLTS, NUTS, WASHERS, BRIDGING, METAL CONNECTORS, AND LAG BOLTS TO CONFORM TO ASTM A 307. HOT-DIP GALVANIZE ALL EXPOSED STEEL AND STEEL IN CONTACT WITH PRESSURE TREATED WOOD IN ACCORDANCE WITH ASTM A 123.

THROUGH BOLTS SHALL BE INSERTED IN PRE-DRILLED HOLES WITH DIAMETER EQUAL TO THE BOLT DIAMETER PLUS 1/16". LAG BOLTS GREATER THAN 3/8" DIAMETER SHALL BE SCREWED INTO PRE-DRILLED LEAD HOLES WITH DIAMETER EQUAL TO ONE-HALF THE LAG BOLT DIAMETER.

NO BEAMS, HEADERS, JOISTS, OR STUDS SHALL BE CUT, NOTCHED, OR BORED TO CLEAR PIPES, WIRE, CONDUIT, OR FOR OTHER PURPOSE WITHOUT REVIEW BY THE ENGINEER. NOTCHING OR BIRDSMOUTH IN MEMBERS IS NOT PERMITTED UNLESS NOTED OTHERWISE.

SHOP-FABRICATED WOOD TRUSS NOTES

DESIGN TRUSSES FOR THE FOLLOWING MINIMUM LOADS AND DEFLECTION:

UNIFORM SNOW LOAD:	55 PSF
UNBALANCED SNOW LOAD:	PER ASCE 7
TOP CHORD DEAD LOAD:	10 PSF
BOTTOM CHORD DEAD LOAD:	10 PSF
WIND LOAD:	PER PER ASCE 7 WITH A MAXIMUM RESISTING DEAD LOAD OF 10 PSF

DEFLECTION LIMITATION:
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

ABBREVIATIONS AND LEGEND

ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	ASTM INTERNATIONAL
BF	BIG FOOT STYLE FOOTING
BOT	BOTTOM
BP	BASE PLATE
BRP	BEARING PLATE
BRG	BEARING
CMU	CONCRETE MASONRY UNIT(S)
CONT	CONTINUOUS
CT	CONTRACTION JOINT
DIA	DIAMETER
EA	EACH
ELEV	ELEVATION
EW	EACH WAY
FD	FLOOR DRAIN
FF	FINISH FLOOR
FTG	FOOTING
GALV	GALVANIZE(D)
HDG	HOT DIP GALVANIZE(D)
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
NA	NEUTRAL AXIS
NTS	NOT DRAWN TO SCALE
OC	ON CENTER
REINF	REINFORCED(D)(ING)
REQD	REQUIRED
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SS	STAINLESS STEEL
STL	STEEL
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOCW	TOP OF CONCRETE WALL
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN THE FIELD
VL	BOISE VERSALAM
W/	WITH
WWF	WELDED WIRE FABRIC
#	SIZE OF REINFORCING BAR
@	INDICATES QUANTITY
()	INDICATES DRAWING NOTE KEYED TO PLAN

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03290

Issue

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Graphic Scale

North

Scale: 1/8" = 1'-0"

Date: Mar. 15, 2025

Drawn By: MR

Checked By: JF

Issues:

No.	Description	Date

Title

STRUCTURAL NOTES

Sheet Number:

S0.01

Project Number: 2136A

File:

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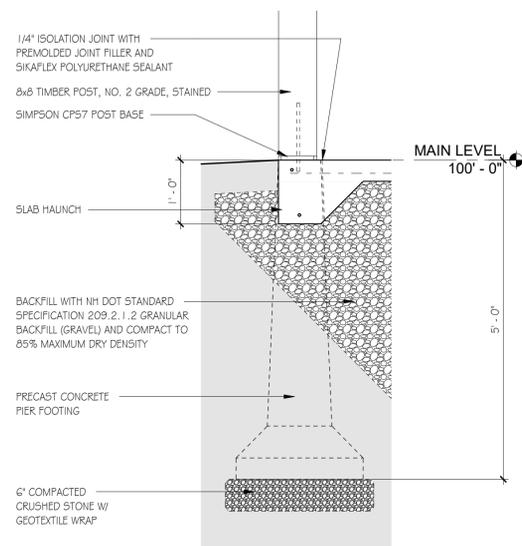
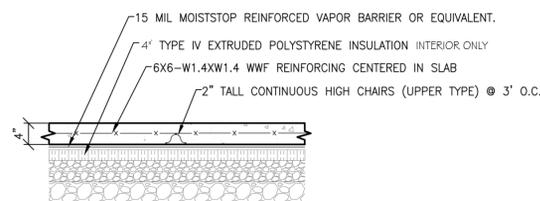
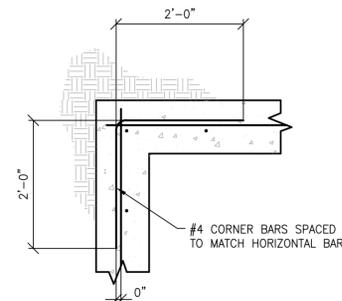
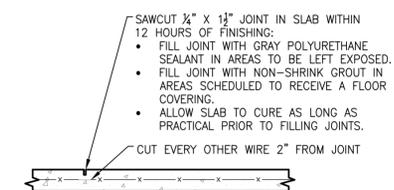
FOUNDATION PLAN AND
DETAILS

Sheet Number:

S1.01

Project Number: 2136A

File:

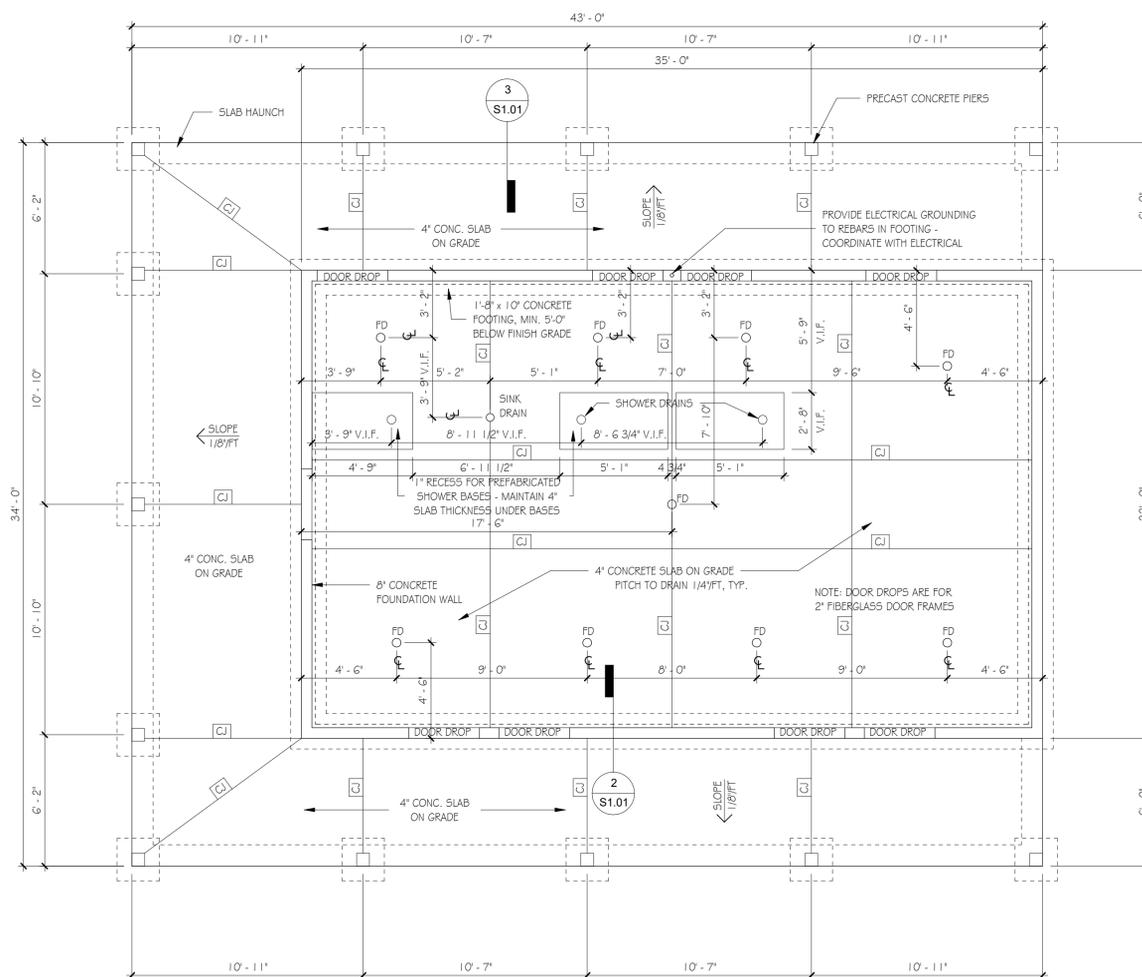


6 SLAB CONTROL JOINT DETAIL
Scale: N.T.S. DENOTED ON PLAN AS CJ SCALE DRAWINGS FOR LOCATIONS

5 CORNER REINFORCING DETAIL
Scale: N.T.S.

4 CONCRETE SLAB-ON-GRADE DETAIL
Scale: N.T.S.

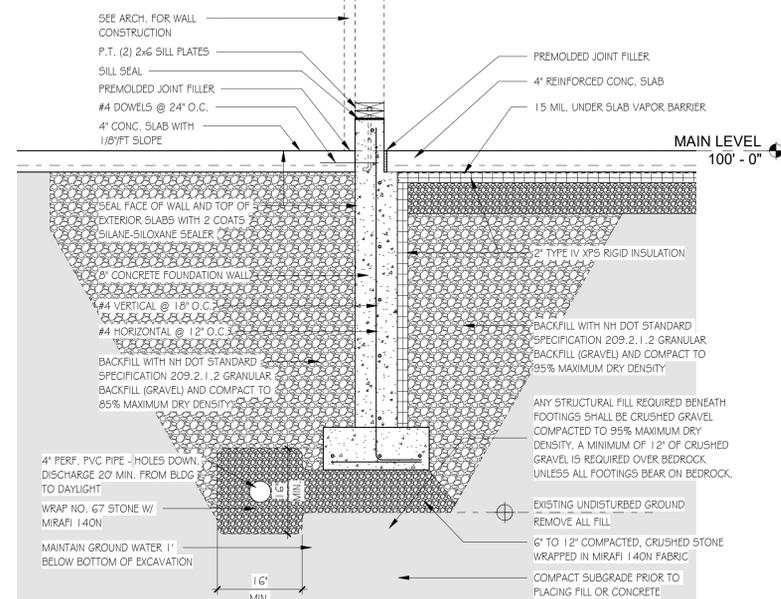
3 SLAB EDGE DETAIL
Scale: 3/4" = 1'-0"



NOTE: VERIFY DRAIN LOCATIONS WITH PLUMBING MANUFACTURER SPECIFICATIONS

1 FOUNDATION PLAN
Scale: 1/4" = 1'-0"

2 TYPICAL FOUNDATION DETAIL
Scale: 3/4" = 1'-0"



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MAR. 8, 2023

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Title

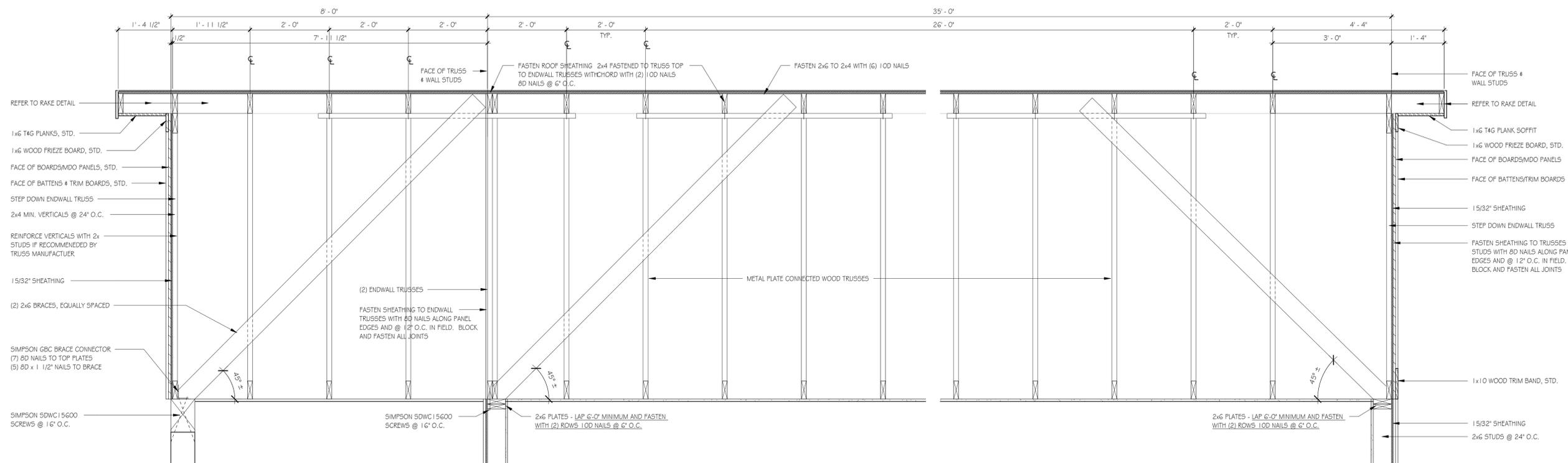
**ROOF FRAMING PLAN AND
FRAMING SECTION**

Sheet Number:

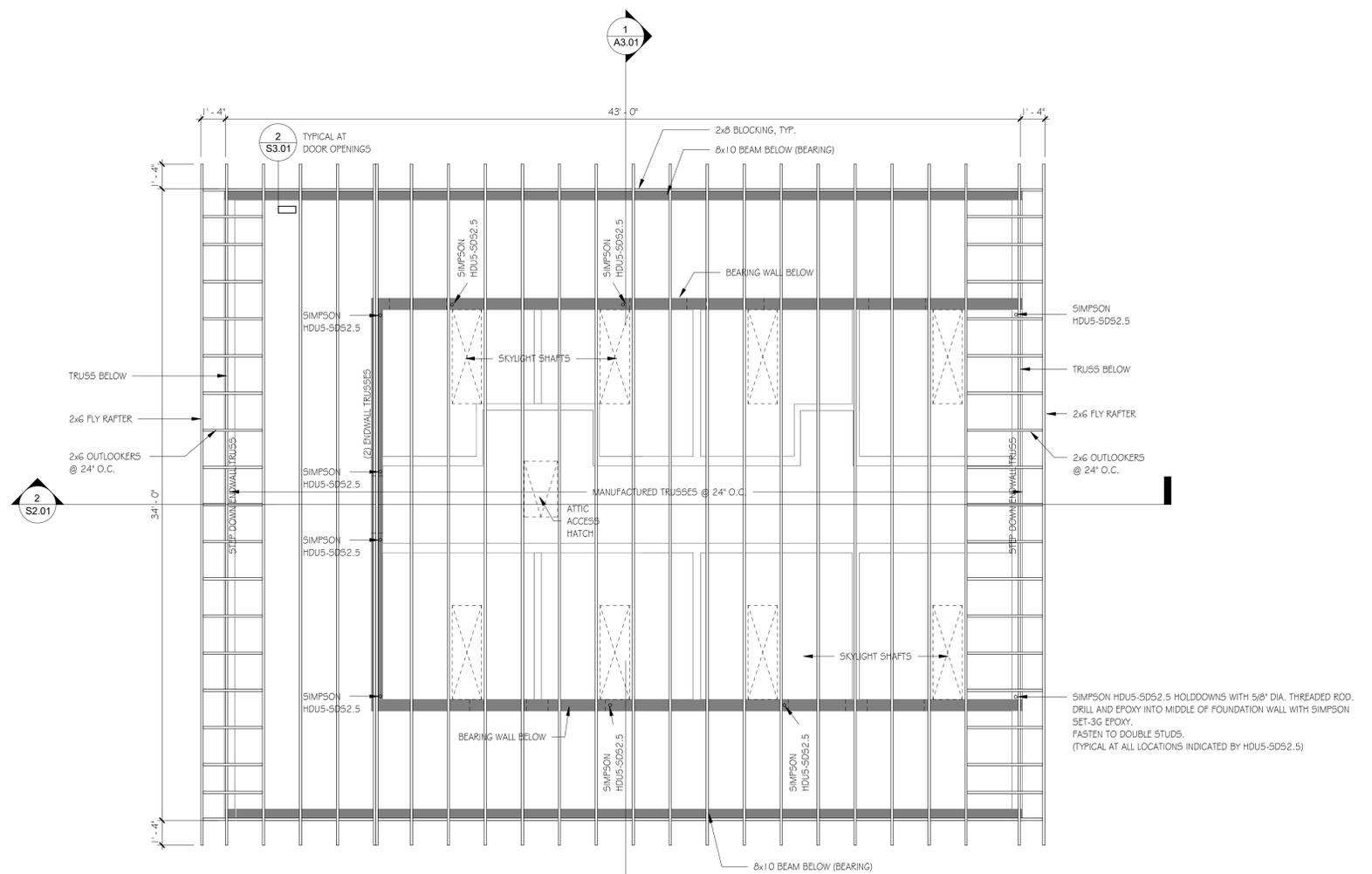
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Project Number: 2136A

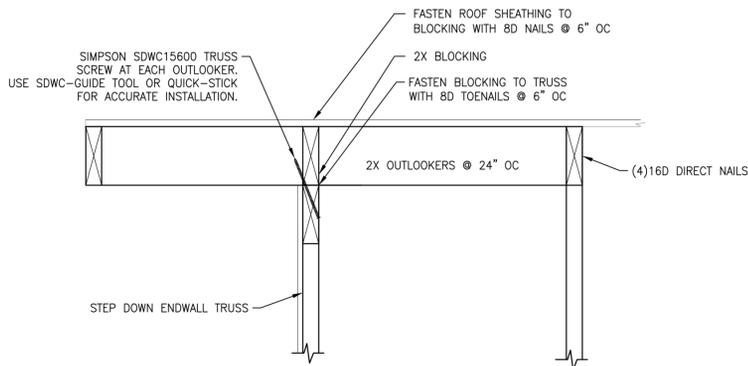
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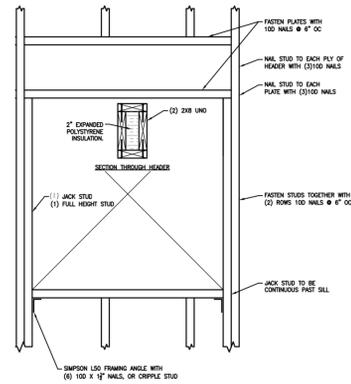
2 ROOF FRAMING SECTION
Scale: 3/4" = 1'-0"



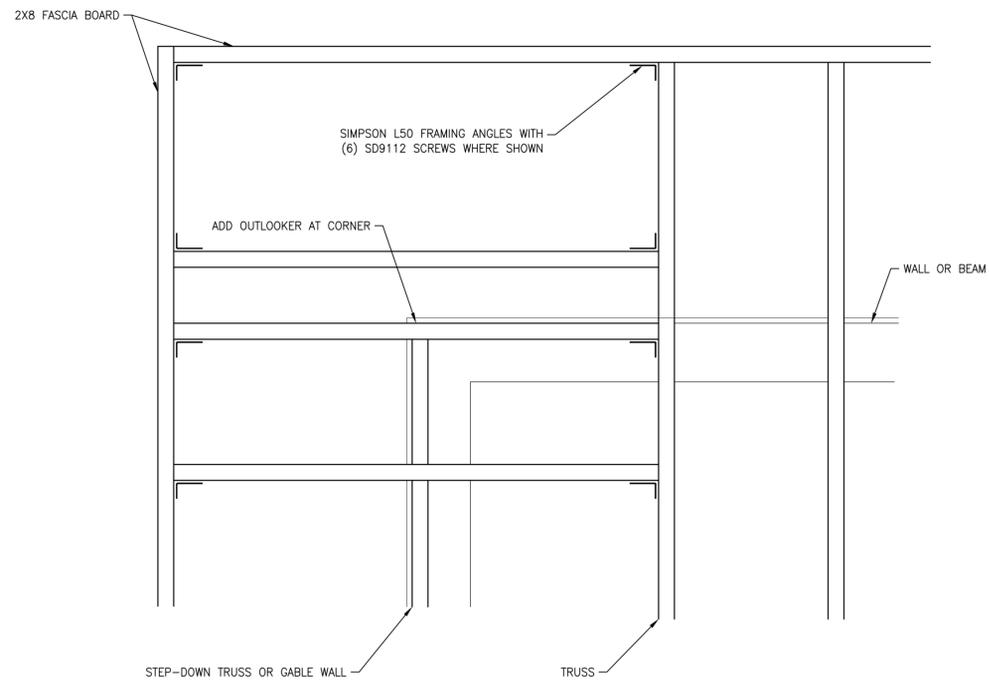
1 ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"



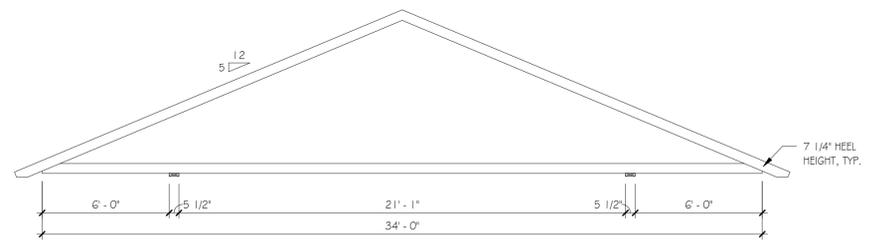
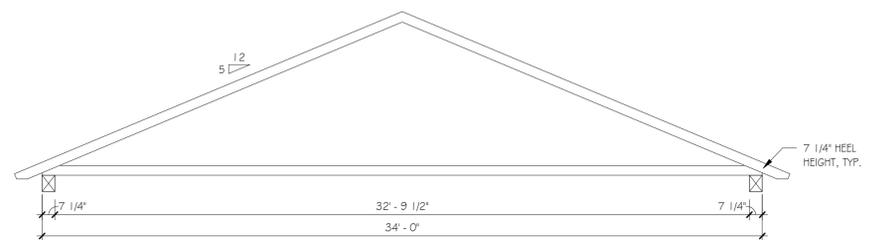
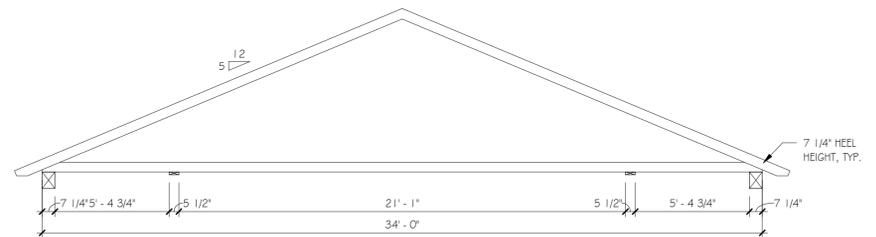
4 RAKE DETAIL
Scale: N.T.S.



2 TYPICAL DOOR WINDOW OPENING/HEADER DETAILS
Scale: N.T.S.



3 TYPICAL DETAILS AT ROOF CORNERS
Scale: N.T.S.



1 TRUSS DIAGRAMS
Scale: 1/4" = 1'-0"

NOTE: TRUSSES ARE TO BE DESIGNED FOR THE WORST CASE OF THE THREE BEARING CONDITIONS SHOWN. SUBMIT TRUSS DESIGNS FOR EACH OF THE THREE BEARING CONDITIONS. ENDWALL TRUSS CONFIGURATION TO WORK AROUND LOUVER.

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Date: Mar. 15, 2025

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TRUSS DIAGRAMS AND DETAILS

Sheet Number:

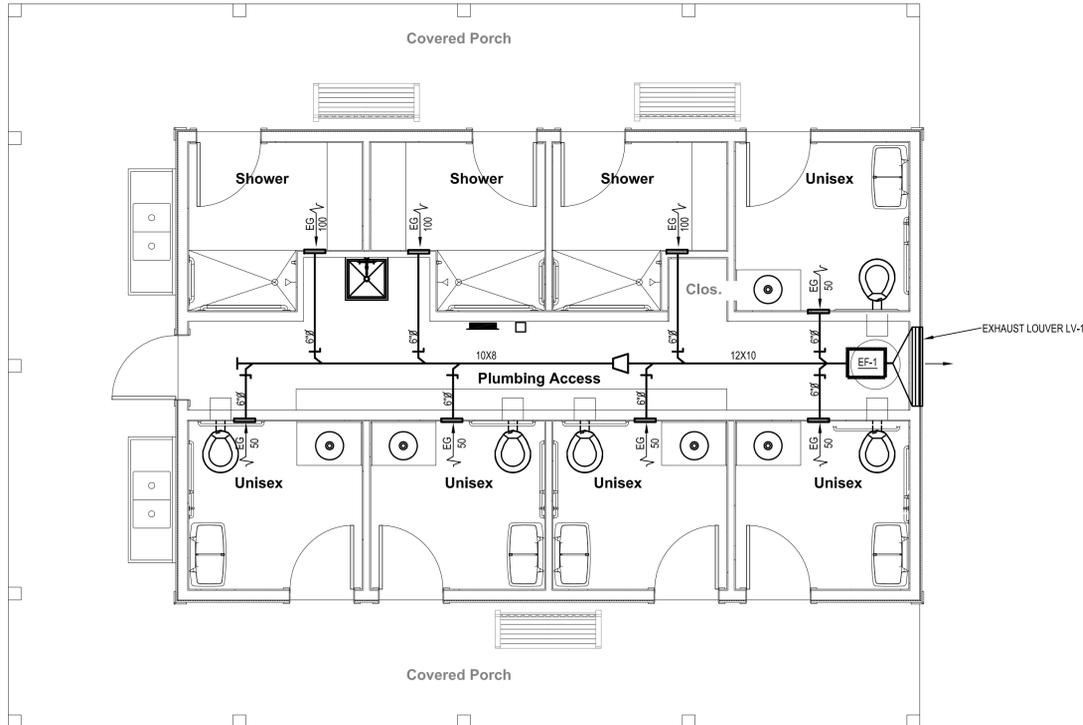
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Project Number: 2136A

File:

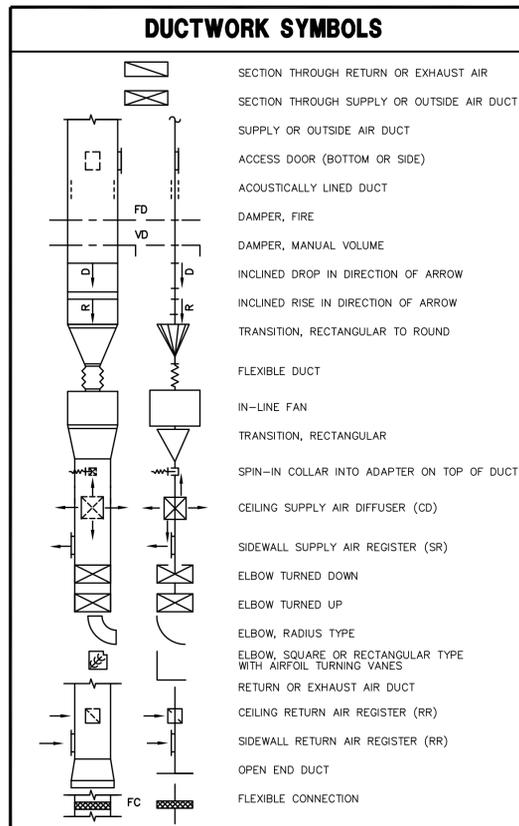
HVAC NOTES

1. **SCOPE OF WORK**
 - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE 2018, ALL LOCAL AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
 - C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
2. **PERMITS**
 - A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
3. **SHOP DRAWINGS**
 - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
4. **DUCTWORK**
 - A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
 - B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
 - C. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.
 - D. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
 - E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
 - F. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
5. **HVAC CONTROLS**
 - A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.
6. **ELECTRICAL**
 - A. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.
7. **MISCELLANEOUS**
 - A. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.
 - B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - C. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAM-MATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIP-MENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIP-MENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
8. **TESTING AND BALANCING**
 - A. THE HVAC SYSTEM SHALL BE TESTED AND BALANC-ED BY AN INDEPENDENT AGENCY, UNDER THE SUPER-VISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
9. **GUARANTEE**
 - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - B. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



LOUVER SCHEDULE

EQUIPMENT NO.	SERVICE	WIDTH	HEIGHT	THICKNESS OF WALL	MATERIAL	SCREEN	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
LV-1	BATH HOUSE	21"	16"	7-3/8"	ALUMINUM	INSECT	GREENHECK MODEL ESD, OR EQUAL.	<ul style="list-style-type: none"> ● FIXED ALUMINUM LOUVER ● COLOR TO BE SELECTED BY ARCHITECT
NOTES:								

FAN SCHEDULE

MARK	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR			MANUFACTURE & MODEL	NOTES
					HP	RPM	VOLT-PHASE		
EF-1	BATH HOUSE	CHASE	550	0.75	1/4	1800	115-1	GREENHECK SQ-100-V04X-QD	

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NH STATE PARKS

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Date: MARCH 15, 2024

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MECHANICAL PLAN AND DETAILS

Sheet Number:

M1.01P

Project Number: 2136

File:

ELECTRICAL NOTES

- SCOPE OF WORK:**
 - CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.
 - FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION.
 - MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.
 - ALL WORK TO BE IN ACCORDANCE WITH 2020 NEC AND ALL APPLICABLE FEDERAL, STATE LOCAL CODES.
- PERMITS:**
 - SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- SHOP DRAWINGS:**
 - SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT FOR APPROVAL. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR STAMP OF THE GENERAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE ARCHITECT OR ENGINEER.
- CONDUITS:**
 - THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED.

APPLICATION	TYPE OF CONDUIT
OUTDOORS	GALV. RIGID STEEL OR EMT W/ W.P. FITTINGS
BRANCH CIRCUITS (EXPOSED)	EMT
BRANCH CIRCUITS (CONCEALED)	MC
SUPPLY TO DISTRIBUTION PANEL	EMT
UNDERGROUND SERVICE ENTRANCE	PVC - SCHEDULE 40
- WIRE:**
 - WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 EXCEPT #14 MAY BE USED FOR CONTROL. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.
 - GENERAL WIRING SHALL BE THW OR THHN (ALUMINUM CONDUCTORS ARE NOT PERMITTED).
 - WIRE CONNECTORS SHALL BE EQUAL BY SCOTCHLOCK FOR #6 AND SMALLER AND T & B "LOCK-LITE" FOR #6 AND LARGER.
- LIGHTING:**
 - LIGHTING FIXTURES AND LAMPS (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES AND LAMPS.
- WIRE DEVICES:**
 - RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5362 (MOUNTING @ 18" A.F.F.).
 - SWITCHES SHALL BE STANDARD GRADE RATED 20 AMP AT 120 VOLT (MOUNTING @ 48" A.F.F.).
 - SPECIAL DEVICES SHALL BE A SPECIFICATION GRADE.
- SAFETY SWITCHES:**
 - PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NONFUSED, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, GOULD, ITE OR EQUAL.
- BOXES:**
 - OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT.
 - JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE.
- INSTALLATION:**
 - ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO STEEL, CONCRETE OR WOOD, BUT NOT TO PIPING. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR APPROVED RACEWAYS.
 - THE CONTRACTOR SHALL DO ALL CUTTING, CHASING OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. SLEEVES SHALL EXTEND AT LEAST TWO (2") INCHES ABOVE FINISHED FLOOR AND ALL SLEEVES, OPENINGS, ETC., THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN THEIR FIRE RATING.
 - THE FOLLOWING EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES AS TO NAME AND/OR FUNCTION; DISTRIBUTION PANELS AND DISCONNECT SWITCHES.
 - THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE ARCHITECT SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.
 - ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES.
- GUARANTEE:**
 - MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - FOR THE SAME PERIOD, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
- FINALLY:**
 - IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

ELECTRICAL SYMBOLS

ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR.
CB	CIRCUIT BREAKER.
EP	EXPLOSION PROOF.
GFI	GROUND FAULT CIRCUIT INTERRUPTER.
GND	GROUND.
HP	HORSEPOWER.
LP	LIGHTING PANEL.
MCC	MOTOR CONTROL CENTER.
MH	MOUNTING HEIGHT, MANHOLE.
NEC	NATIONAL ELECTRICAL CODE.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NIC	NOT IN CONTRACT.
NL	NIGHT LIGHT.
PH	PHOTOELECTRIC SWITCH
PP	POWER PANEL.
RP	RECEPTACLE PANEL.
UG	UNDERGROUND.
UON	UNLESS OTHERWISE NOTED.
WP	WEATHER PROOF.

WIRING

	#10	WIRING CONCEALED IN CEILING OR WALLS; SLASH MARKS INDICATE NUMBER OF CONDUCTORS EXCLUDING GROUNDS; CONDUCTOR SIZE AS MARKED; #12 AWG UON.
		UNDERGROUND CABLE OR DUCT; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.
		WIRING RUN EXPOSED.

SWITCHES

	S	SWITCH OUTLET; MOUNTED 48" AFF UON; SINGLE POLE UON; LOWER CASE LETTER, WHEN PRESENT, INDICATES OUTLETS CONTROLLED.
* ABBREVIATIONS FOR SWITCH OUTLETS		
	2	DOUBLE POLE SWITCH
	4	4-WAY SWITCH
	K	KEY OPERATED SWITCH
	D	DOOR SWITCH
	D	DIMMER SWITCH; MOUNTED 48" AFF UON; LOWER CASE LETTER, WHEN PRESENT, INDICATES OUTLETS CONTROLLED.

LIGHTING

		FLUORESCENT LIGHT FIXTURE - RECESSED, SURFACE, OR PENDENT MOUNTED
		RECESSED MOUNTED CEILING FIXTURE
		SURFACE MOUNTED CEILING FIXTURE
		INCANDESCENT FIXTURE, WALL
		SURFACE OR PENDANT MOUNT EXIT SIGN FIXTURE; ARROWS INDICATE REQUIRED SIGN ARROWS.
		BATTERY POWERED EMERGENCY LIGHTING FIXTURE
		COMBINATION EMERGENCY LIGHTING FIXTURE AND EXIT SIGN
	A	INDICATES FIXTURE TYPE; SEE SCHEDULE.

RECEPTACLES

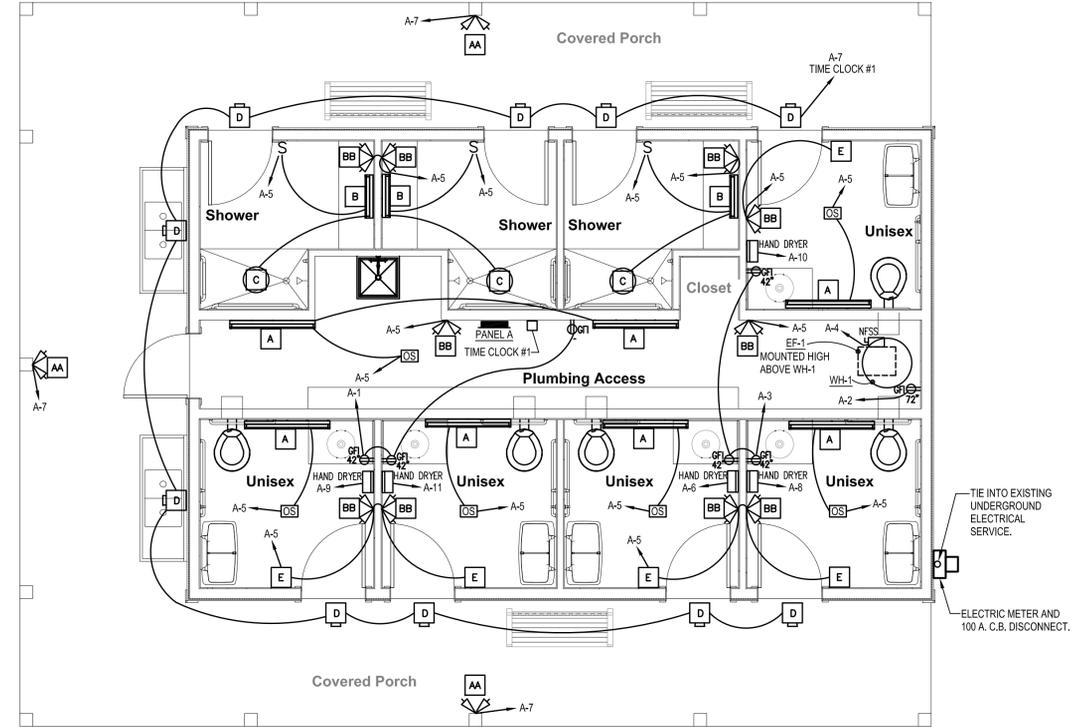
	12	GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 18" AFF UON; NUMBER INDICATES CIRCUIT.
		GROUNDING QUADRUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 18" AFF UON.
	A	SPECIAL PURPOSE RECEPTACLE; LETTER INDICATES TYPE; TYPE DEFINED BY NOTATION OR SCHEDULE; MOUNTED 18" AFF UON.

PANELS AND MISC.

	FSS	LIGHT OR POWER PANEL
	NFSS	FUSED SAFETY (DISCONNECT) SWITCH
		NON-FUSED SAFETY (DISCONNECT) SWITCH
		JUNCTION BOX
		MOTOR
		TELEPHONE OUTLET - WALL - MOUNTED 18" AFF, UON PROVIDE 4X4 OUTLET BOX IN WALL WITH 3/4" CONDUIT TO ABOVE CEILING WITH PULL WIRE. WIRING BY OTHERS.
		COMPUTER OUTLET - WALL - MOUNTED 18" AFF UON. PROVIDE 4X4 OUTLET BOX IN WALL WITH 3/4" CONDUIT TO ABOVE CEILING WITH PULL WIRE. WIRING BY OTHERS.

ELECTRICAL NOTES

- VERIFY CONDITION AND CAPACITY OF EXISTING ELECTRICAL SERVICE (MINIMUM 100 AMP SERVICE). REMOVE AND REPLACE AS REQUIRED. PROVIDE NEW LIGHTING, POWER AND CONTROL CIRCUITING AS REQUIRED.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL CURRENT ELECTRICAL CODES.
- EXTERIOR LIGHTING TO BE CONTROLLED BY TIMECLOCK. INTERMATIC MODEL T101 OR APPROVED EQUAL
- PROVIDE LOW VOLTAGE CEILING MOUNTED ULTRASONIC MOTION DETECTOR. GREENGATE MODEL OAC-U-1000-R+SP20-MV OR APPROVED EQUAL. OS



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

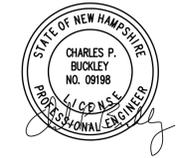
LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	FIXTURE MAKE/MODEL	LAMPING	MOUNTING
A	METALUX	4-BCLED-LD4-28SL-F-UNV-L830-CD-1	32W LED	WALL MOUNTED @ 8'-0" AFF
B	METALUX	2-BCLED-LD4-16SL-F-UNV-L830-CD-1	18W LED	WALL MOUNTED @ 8'-0" AFF
C	HALO	SLD606-8-30-WH	12.5W LED	CEILING MOUNTED
D	RAB	BRISKS17L-730	14W LED	ABOVE DOOR/BEHIND BEAM/POST
E	LEGRAND	TMHLECC	1/4W LED	MOUNT 24" AFF
AA	DUAL-LITE	DYN 6	2-3W LED	MOUNT TOP 6" T.O. WALL
BB	DUAL-LITE	LZZ5DI (25 WATT BATTERY)	2-5W/MR16	MOUNT TOP 6" BELOW CEILING

CIRCUIT BREAKER PANEL NO. 'A'											
VOLTS: 120/240		WIRE: 3		KA RMS: 10 KAIC		NEUTRAL BAR: YES		BRANCH CB: BOLT-ON		NEMA TYPE: 1	
PHASE: 1		AMP: 100		MAIN CB AMP: 100		GROUND BAR: YES		KEY LOCK: YES		MOUNTING: SURFACE	
VOLT-AMPS (V-A)		CIRCUIT DESCRIPTION		CONDUCTOR		POLES		C.B.		MOUNTING: SURFACE	
A	B										
1000	1000	RECEPT.	2#12-#12G.	1	20	1	2	20	1	2#12-#12G.	RECEPT.-WH-1
400	200	LIGHTING	2#12-#12G.	1	20	3	4	20	1	2#12-#12G.	EF-1
1500	1500	HAND DRYER	2#12-#12G.	1	20	7	8	20	1	2#12-#12G.	HAND DRYER
		HAND DRYER	2#12-#12G.	1	20	9	10	20	1	2#12-#12G.	HAND DRYER
		SPACE	2#12-#12G.	1	20	11	12				SPACE
		SPACE				13	14				SPACE
		SPACE				15	16				SPACE
		SPACE				17	18				SPACE
		SPACE				19	20				SPACE
2900	2700	TOTAL								TOTAL CONNECTED LOAD: 11700 V-A (48.25A)	TOTAL
											4000
											2100

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NH STATE PARKS

Campton Expansion Project PII
 Pawtuckaway State Park
 7 Pawtuckaway Road
 Nottingham, NH
 03290

Issue

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ELECTRICAL PLAN AND DETAILS

Sheet Number:

E1.01P

Project Number: 2136

File:



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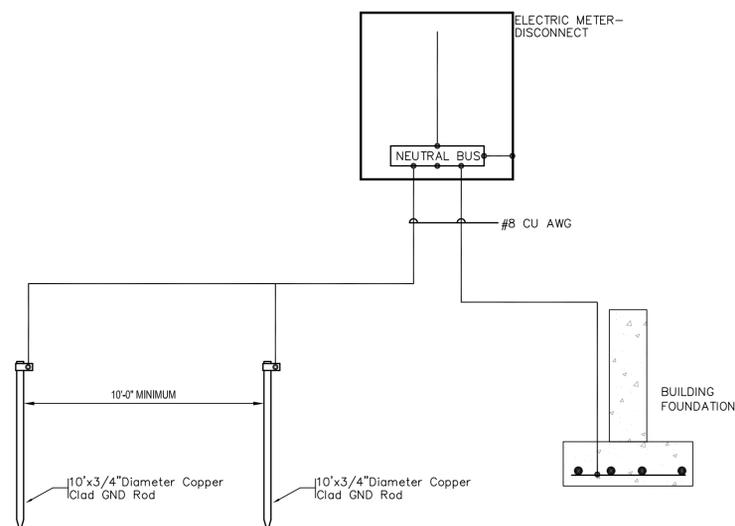
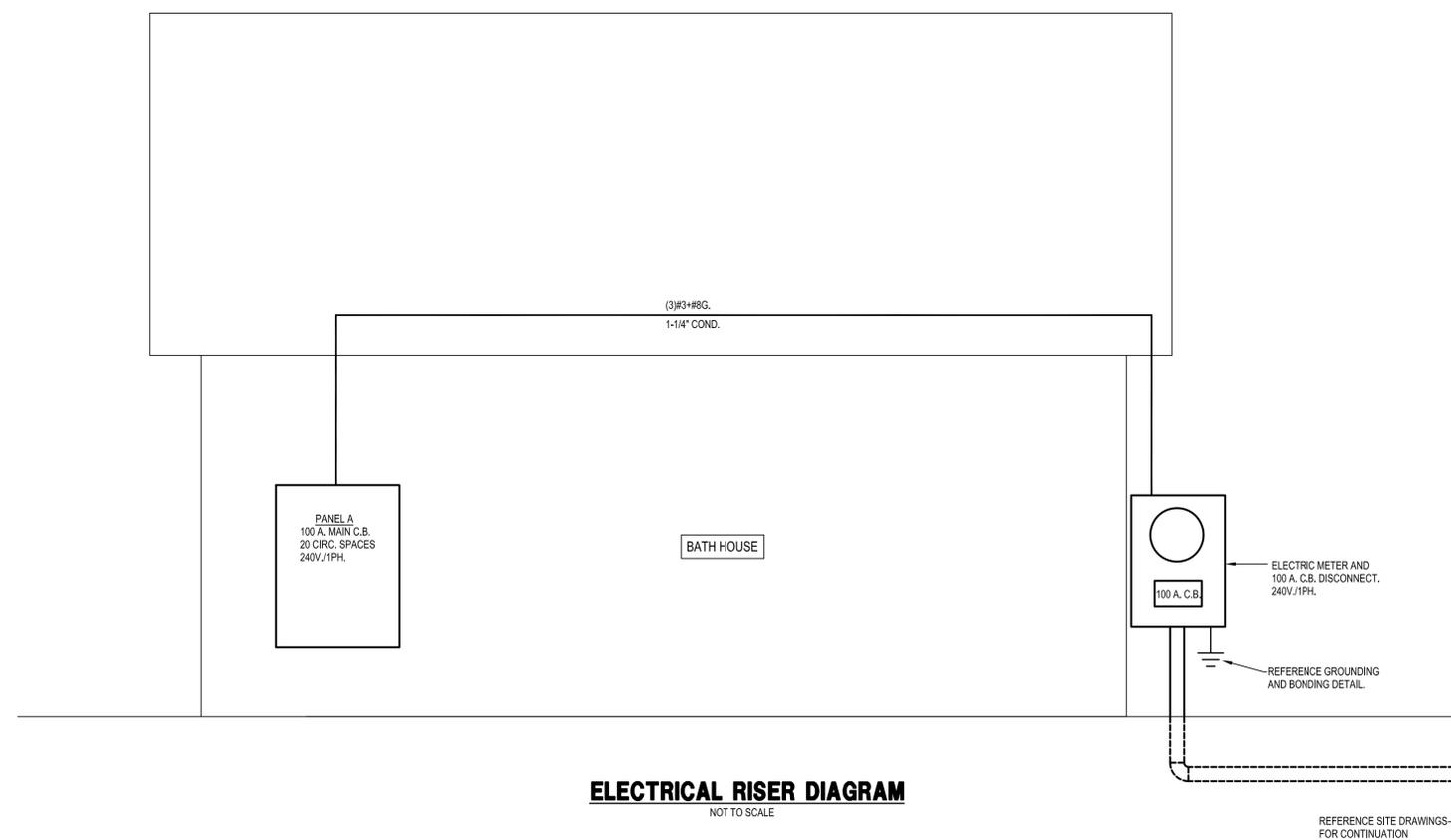
ELECTRICAL RISERS

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E1.02P

Project Number: 2136

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PLUMBING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-----	SOIL OR WASTE PIPE (BELOW GROUND)		VACUUM BREAKER
_____	SOIL OR WASTE PIPE (ABOVE GROUND)		PRESSURE GAGE
-----	VENT PIPE (V)		TEMPERATURE GAGE
-----	COLD WATER PIPE (CW)		PRESSURE REDUCING VALVE
-----	HOT WATER PIPE (HW)		GAS COCK
-----	HOT WATER RETURN (HWR)		VENT THROUGH ROOF
— C —	GAS PIPE	VTR	VENT THROUGH ROOF
— SD —	STORM DRAIN	LAV	LAVATORY
	FLOOR DRAIN	WC	WATER CLOSET
	CLEAN-OUT(FLOOR)	URN	URINAL
	CLEAN-OUT(WALL OR ABOVE CLG.)		GAS REGULATOR
	HOT WATER HEATER		GAS COCK
	GATE VALVE	C.S.	IN CRAWL SPACE
	CHECK VALVE		ELECTRIC GAS VALVE FOR PIPING UNDER HOODS - THE INTO ANSUL SYSTEM
	TEMP./PRESS. RELIEF VALVE		
	FIXTURE ISOLATION VALVE		
	BALL VALVE		

GENERAL LP PIPING NOTES

- GAS PIPING HAS BEEN DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE 2018 AND NFPA 58 - STANDARD FOR THE STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES (LATEST EDITION).
- GAS PIPING INSTALLED ON THE EXTERIOR OF THE BUILDING AND ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL PIPE (ASTM A53/A106) AND HAVE THREADED JOINTS (ASME B1.20.1). THE BLACK STEEL PIPE SHALL BE COVERED WITH 2 COATS OF A WATERPROOF ASPHALTIC COATING (OR EQUAL) TO PREVENT CORROSION OF THE PIPE .
- GAS PIPING INSTALLED ON THE INTERIOR OF THE BUILDING SHALL BE SCHEDULE 40 BLACK STEEL PIPE (ASTM A53, A106) AND HAVE THREADED JOINTS (ASME B1.20.1).
- JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH APPROVED ADAPTER FITTINGS.
- ALL PENETRATIONS OF GAS PIPING THROUGH SLABS AND FOUNDATION WALLS SHALL BE SLEEVED WITH A PIPE SLEEVE.
- PROPANE GAS SUPPLIER SHALL PROVIDE ALL NECESSARY REGULATORS, PRESSURE GAUGES, VALVES AND LEVEL GAUGES AT PROPANE TANKS.
- GAS SUPPLY PRESSURE = 11 INCHES WATER GAUGE.
- GAS PIPE SIZING IS BASED ON TABLE 402.4(24) IN THE INTERNATIONAL FUEL GAS CODE - 2018. A MAXIMUM PIPE LENGTH OF 40 FT. HAS BEEN USED FOR THIS DESIGN.

PLUMBING NOTES

- SCOPE OF WORK**
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE (2018).
 - THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.
 - SHOP DRAWINGS**

 - SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE SHOP DRAWINGS SHALL BE CLEARLY TAGGED AND HIGHLIGHTED.
 - DOMESTIC WATER SUPPLY PIPING**

 - ABOVE GROUND: MAINS AND BRANCHES - COPPER PIPE WITH SOLDER JOINTS. BRANCHES - PEX WITH PEX FITTINGS.
 - ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
 - ALL COLD WATER PIPING TO BE INSULATED WITH 1/2" FOAM INSULATION.
 - PROVIDE DOMESTIC WATER SHUT-OFFS AT EACH PLUMBING FIXTURE.
 - SANITARY/STORM DRAINAGE AND VENT PIPING**

 - ABOVE GRADE: -2" AND BELOW: SCH. 40 PVC WITH SOLVENT JOINTS. -3" AND ABOVE: SCH. 40 PVC WITH SOLVENT JOINTS.
 - BELOW GRADE: SCH. 40 PVC WITH SOLVENT JOINTS.
 - PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
 - DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
 - DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.
 - PIPE SUPPORTS**

 - ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN THE INTERNATIONAL PLUMBING CODE.
 - MISCELLANEOUS**

 - COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
 - DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
 - SEAL AND FLASH ALL WALL PENETRATIONS AIR AND WEATHER-TIGHT.
 - TESTING AND DISINFECTION**

 - PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED & DISINFECTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE INTERNATIONAL PLUMBING CODE.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER - MODEL #	ACCESSORIES & NOTES	PIPING CONNECTIONS					COLOR & FINISH	NOTES
				TRAP	S/W	VENT	C.W.	H.W.		
WC-1	ACCESSIBLE TOILET	AMERICAN STANDARD: AFWALL MILLENNIUM FLOWISE 1.28 GPF FLUSHMETER MODEL: 2856-128	FLUSH VALVE: AMERICAN STANDARD MODEL 6047.121.002 TOILET SEAT: AMERICAN STANDARD MODEL #5901.100 (COLOR: BLACK) CARRIERS: JAY R. SMITH, OR EQUAL.	INTEGRAL	4"	2"	1"	---	WHITE	
LAV-1	COUNTER SINK	CORIAN: ADA-COMPLIANT MODEL #810	FAUCET: SYMMONS SYMMETRIX S-20-2-0.5, TRAP: CHROME PLATED, MIXING VALVE: SYMMONS MAXLINE 7-210-CK-W, PIPE COVERS: TRUEBRO LAV GUARD 2 E-2 SERIES	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	AS SELECTED BY ARCHITECT	
SH-1	ACCESSIBLE SHOWER	CUSTOM	SHOWER PAN: SWAN FBF-306QL/R VERITEK BARRIER-FREE SHOWER PAN WITH FIT-FLO DRAIN. DRAIN: WAITS FD-1100-A-2-NH-AS-7, HEAD: SYMMONS SAFETYMAX 4-151 (2 HEADS @ ADA), CONTROLS: SYMMONS SAFETYMAX 4-500-BX-WP, DIVERTER VALVE: SYMMONS MODEL 20V.	2"	2"	1-1/2"	1/2"	1/2"	AS SELECTED BY ARCHITECT	
FD-1	FLOOR DRAIN	ZURN: MODEL FD2-TSP-WP	TRAP SEAL: ZURN Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE	2"	2"	1-1/2"	---	---		
MS-1	MOP SINK	FIAT MODEL MSB2424	● FAUCET: FIAT MODEL 830AA ● MOP HANGER: FIAT MODEL B89CC ● FIAT STAINLESS BUMPER GUARD	3"	3"	1-1/2"	1/2"	1/2"		
SINK-1	DISH WASHING SINK	ADVANCE TABCO MODEL VKCT-246 WITH TA-11A-2 BOWLS AND ADJUSTABLE LEGS MOUNTED AT ACCESSIBLE HEIGHT (MOUNTING AT BARRIER-FREE HEIGHT).	● FAUCET: ADVANCE TABCO HEAVY DUTY MODEL K-1118 SPASH MOUNTED FAUCETS, 8" CTRS., SWING NOZZLE, 12" SPOUT. ● STAINLESS STEEL STRAINER AND DRAIN BODY. ● PROVIDE 1 FAUCET PER EACH BOWL. ● ADVANCED TABCO BOWL MODEL TA-11A-2 - TWO 8" DEEP BOWLS.	2"	2"	1-1/2"	1/2"	1/2"		14" DEEP BOWL
SINK-2	DISH WASHING SINK	ADVANCE TABCO MODEL VKCT-246 WITH TA-11B-2 BOWLS AND ADJUSTABLE LEGS.	● FAUCET: ADVANCE TABCO HEAVY DUTY MODEL K-1118 SPASH MOUNTED FAUCETS, 8" CTRS., SWING NOZZLE, 12" SPOUT. ● STAINLESS STEEL STRAINER AND DRAIN BODY. ● PROVIDE 1 FAUCET PER EACH BOWL. ● ADVANCED TABCO BOWL MODEL TA-11B-2 - TWO 12" DEEP BOWLS.	2"	2"	1-1/2"	1/2"	1/2"		12" DEEP BOWL
NOTES: ① SCHEDULE INDICATES FIXTURES SELECTED AS THE BASIS OF DESIGN, ALTERNATIVES WILL BE ACCEPTED IF EQUAL OR BETTER QUALITY. ② PROVIDE ALL NECESSARY TRIM AND FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. ③ WATER PIPING SHALL BE INSTALLED TO ALLOW FOR SEASONAL DRAIN DOWN OF THE WATER SYSTEM. PROVIDE DRAIN VALVES AS REQUIRED AT LOW POINTS. DRAIN VALVES SHALL BE LOCATED TO LIMIT PUBLIC ACCESS.										

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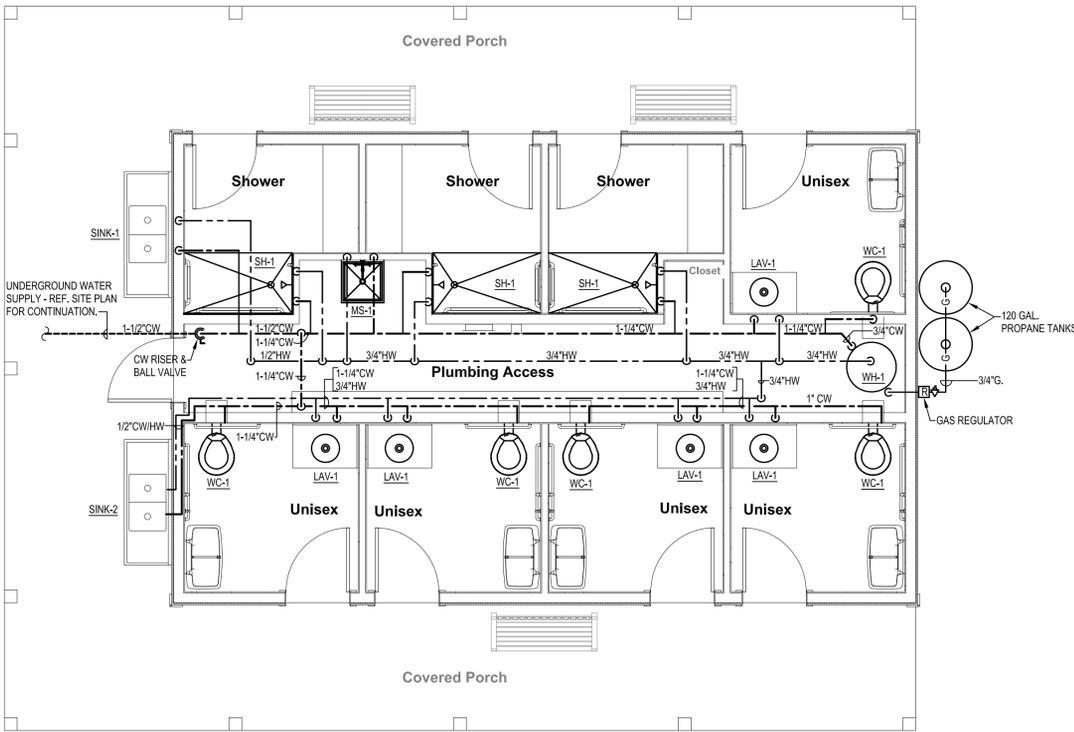
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Title
 PLUMBING NOTES, DETAILS
 AND SCHEDULES

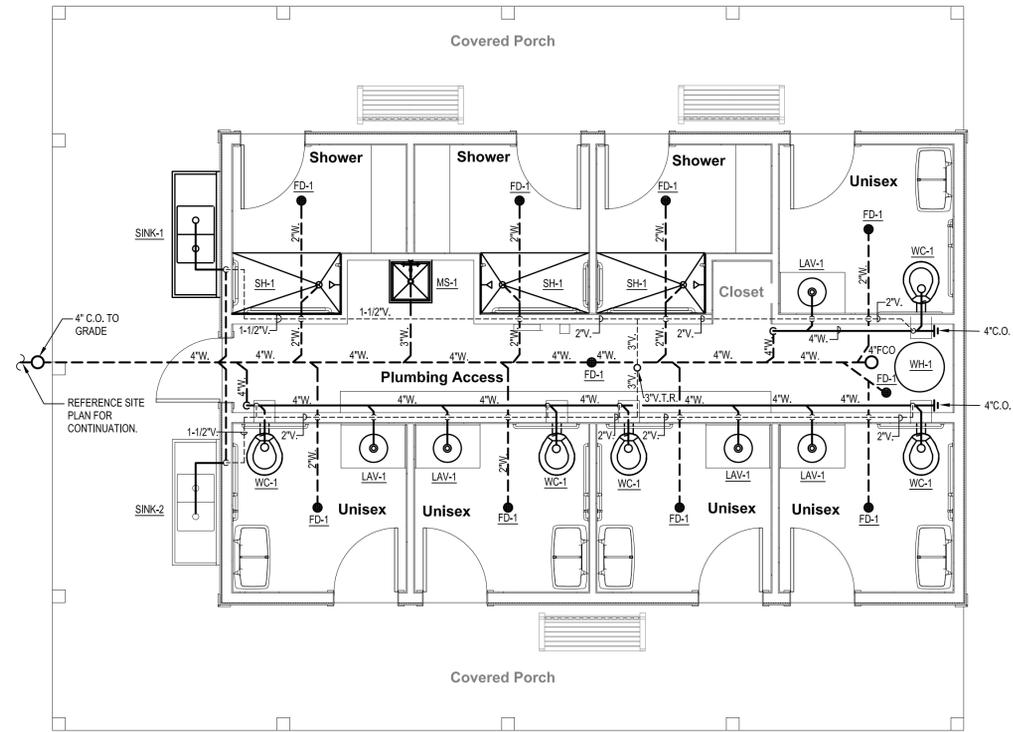
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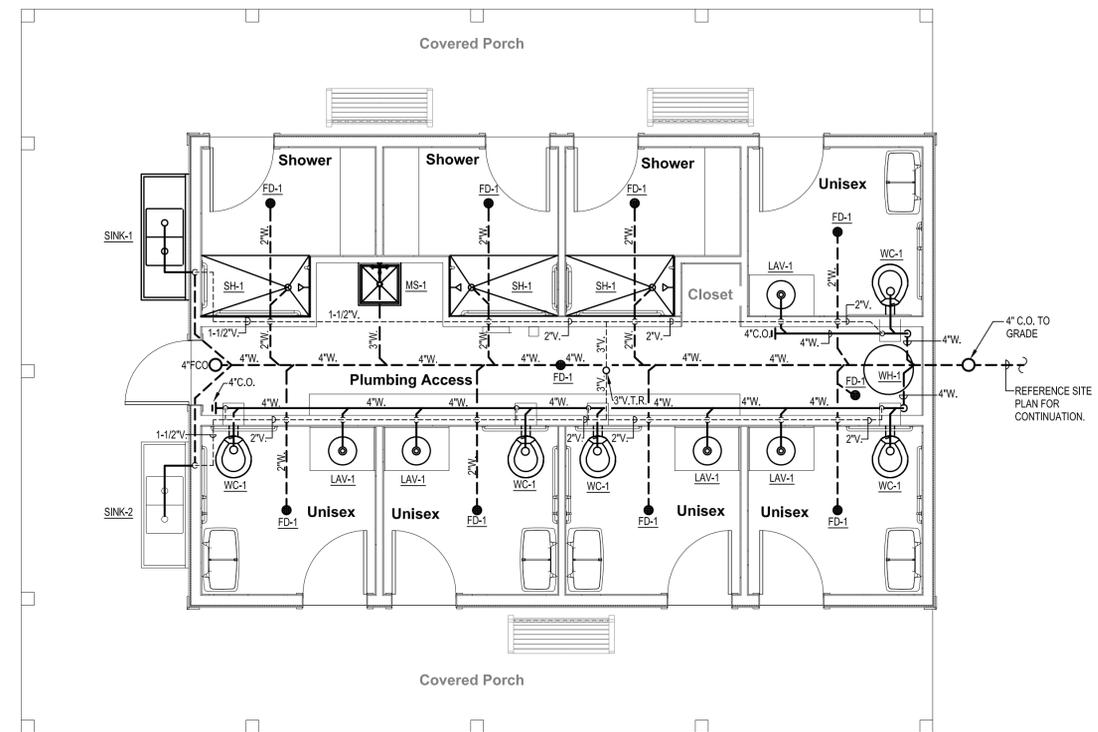
PLUMBING PLAN - DOMESTIC WATER AND GAS

SCALE: 1/4" = 1'-0"



**PLUMBING PLAN - WASTE & VENT
FOR BATHHOUSES #5, 7, 8 & 9
(SANITARY WASTE OUT FRONT OF BUILDING)**

SCALE: 1/4" = 1'-0"



**PLUMBING PLAN - WASTE & VENT
FOR BATHHOUSE #6
(SANITARY WASTE OUT REAR OF BUILDING)**

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. PROVIDE DRAIN BACK VALVES (BOILER DRAIN COCKS) AT EACH PLUMBING LOW POINT.
2. PROVIDE SHUT-OFF VALVES FOR EACH PLUMBING FIXTURE IN THE PLUMBING CHASE.

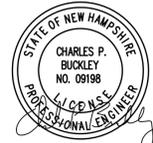
PLUMBING NOTES

1. TIE NEW WATER AND SEWER TO EXISTING SERVICE ENTRANCES. PROVIDE CONNECTIONS APPROPRIATE TO TYPE AND MATERIALS OF EXISTING SYSTEMS TO REMAIN.
2. LAYOUT WATER LINES TO PITCH TO DRAIN VALVES TO FACILITATE SEASONAL DRAIN DOWN.
3. REMOVE ALL EXISTING PLUMBING FIXTURES AND INSTALL NEW AS SHOWN.



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Camground Expansion Project P11
Pawtuckaway State Park
7 Pawtuckaway Road
Nottingham, NH
03290

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PLUMBING PLANS

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PLUMBING DETAILS

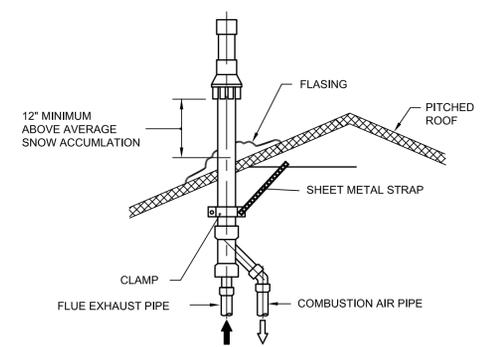
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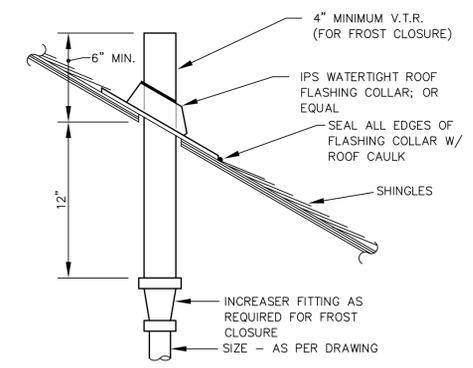
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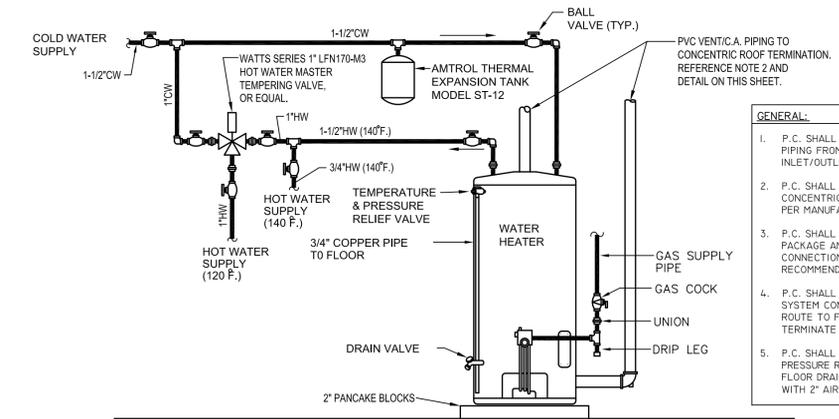
MARK	CAPACITY	RECOVERY @ 100 DEG. F. RISE	BTU PER HR.	GAS CONN.	WATER CONN.	ELECTRIC		MANUFACTURE & MODEL	REMARKS
						AMPS	VOLT-PHASE		
WH-1	100 GAL.	235 GAL.	199,000	3/4"	1-1/4"	10.0	120-1	A.O. SMITH MODEL BTH-199	-PROPANE FIRED -POWER VENTED -4" VENT & COMB. AIR PIPES -140 DEG F. DISCHARGE TEMP.



CONCENTRIC FLUE PIPING DETAIL FOR HIGH EFFICIENCY WATER HEATER
 NOT TO SCALE

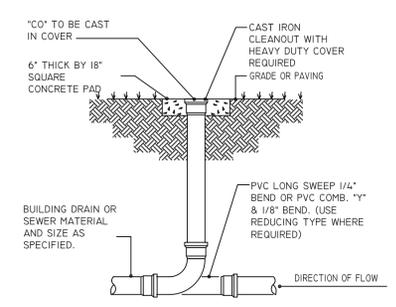


VENT THRU ROOF DETAIL
 NOT TO SCALE

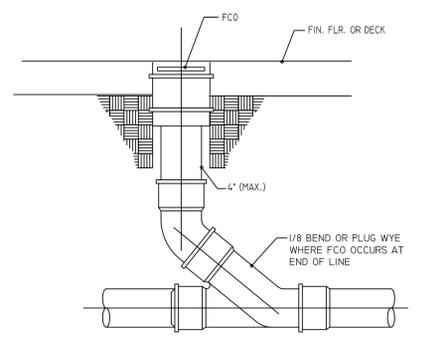


WATER HEATER WITH MIXING VALVE DETAIL
 NOT TO SCALE

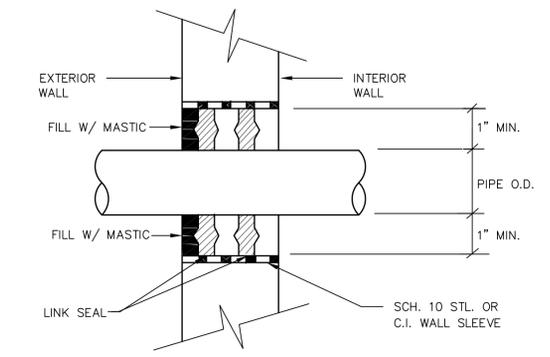
- GENERAL:**
- P.C. SHALL INSULATE CW/HW SUPPLY PIPING FROM WATER HEATER INLET/OUTLET.
 - P.C. SHALL ROUTE VENT/C.A. PIPING TO CONCENTRIC ROOF TERMINATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - P.C. SHALL PROVIDE ALL CONTROLS WITH PACKAGE AND E.C. SHALL INSTALL ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
 - P.C. SHALL INSTALL 3/4" PIPING TO VENT SYSTEM CONDENSATE COLLECTOR AND ROUTE TO FLOOR DRAIN OR I.W.D. AND TERMINATE WITH 2" AIR GAP (MIN.).
 - P.C. SHALL INSTALL 3/4" PIPING TO PRESSURE RELIEF VALVE AND ROUTE TO FLOOR DRAIN OR I.W.D. AND TERMINATE WITH 2" AIR GAP (MIN.).



GRADE CLEANOUT DETAIL
 NOT TO SCALE



FLOOR CLEANOUT DETAIL
 NOT TO SCALE



EXTERIOR WALL SLEEVE DETAIL
 NOT TO SCALE