

JERICO MOUNTAIN STATE PARK

NEW RV CAMPGROUND - 80% DESIGN

298 Jericho Lake Road
Berlin, NH 03570

SHEET LIST

SHEET NO.	SHEET TITLE
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C1.02	EXISTING CONDITIONS - AREA 2
C1.03	EXISTING CONDITIONS - AREA 3
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C2.02	SITE PLAN - AREA 2
C3.00	GRADING PLAN - AREA 1
C3.01	GRADING PLAN - AREA 2
C4.00	UTILITY PLAN - AREA 1
C5.00	EROSION CONTROL DETAILS
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C5.03	STORMWATER DETAILS
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E1.02	ELECTRICAL SITE PLAN - AREA 1
E1.03	ELECTRICAL SITE PLAN - AREA 2

SITE



SE GROUP
Landscape Architects and Planners
1 Mill Street, Suite 190
Burlington, VT 05401
tel: 802.862.0098
fax: 802.865.2440
www.segroup.com

NH STATE PARKS

Campground Expansion Project PH
Jericho Mountain State Park
298 Jericho Lake Road
Berlin, NH
03570

Issue

80% DESIGN

Graphic Scale

North

Scale:

Date: November 30, 2023

Drawn By: KS & BD

Checked By: PC

Issues:

No.	Description	Date
1	Name	00/00/00

Title

COVER SHEET

Sheet Number:

G0.00

Project Number: 23045001
File: 10.00-cover sheet.dwg

LANDSCAPE ARCHITECT
SE GROUP
1 MILL STREET, SUITE 190
BURLINGTON, VT 05401

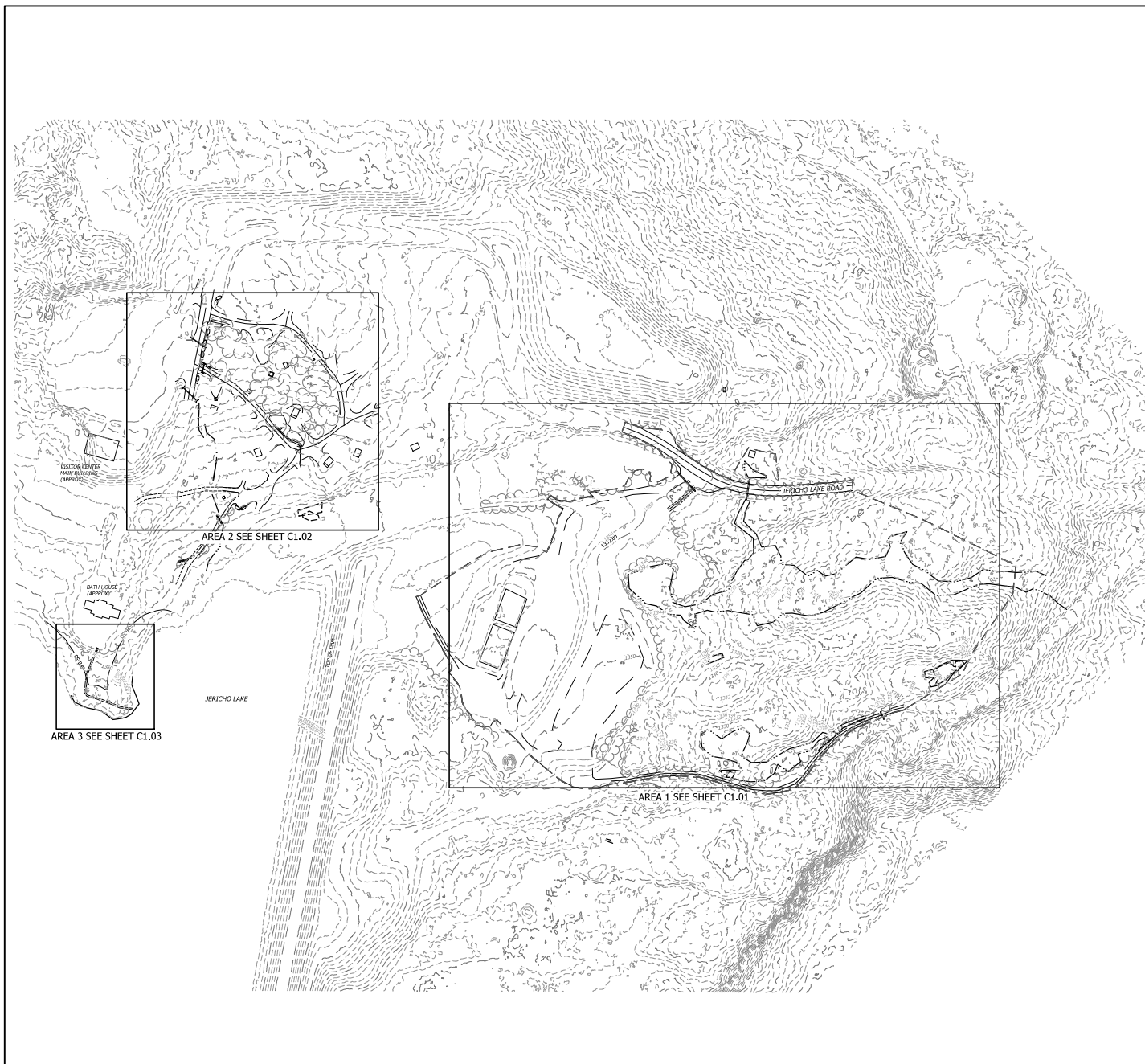
CIVIL ENGINEER
HORIZONS ENGINEERING
176 NEWPORT ROAD, SUITE 8
NEW LONDON, NH 03257

ARCHITECT
SAMYN-DELIA ARCHITECTS, P.A.
6 CENTRAL HOUSE ROAD
HOLDERNESS, NH 03245

ELECTRICAL
CPB & ASSOCIATES
500 DEPOT STREET
RUMNEY, NH 03266

Issues:

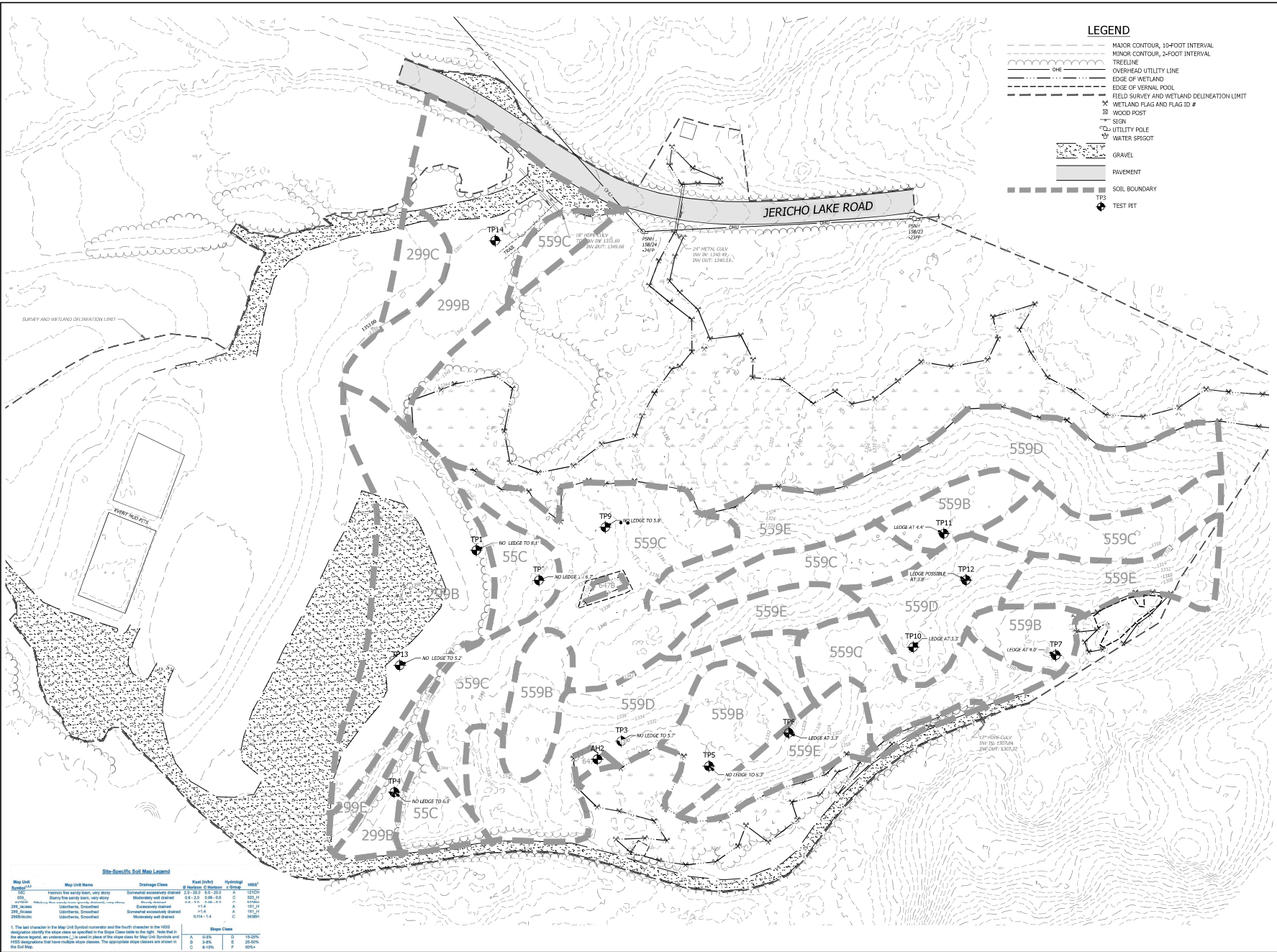
No.	Description	Date
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Z:\proj_2023\200388 SE Group - Campgrounds PI II\Internal\Civil\Bases\JERICHO\230338-jericho-k-site 80_01.dwg, C:\UD, 11/28/2023 2:52:47 PM, DavidHester

Issues:

No.	Description	Date
1	Name	00/00/00



- LEGEND**
- MAJOR CONTOUR, 10-FOOT INTERVAL
 - MINOR CONTOUR, 2-FOOT INTERVAL
 - TREELINE
 - OVERHEAD UTILITY LINE
 - EDGE OF WETLAND
 - EDGE OF VERNAL POOL
 - FIELD SURVEY AND WETLAND DELINEATION LIMIT
 - WETLAND FLAG AND FLAG ID #
 - WOOD POST
 - SIGN
 - UTILITY POLE
 - WATER SPRIGOT
 - GRAVEL
 - PAVEMENT
 - SOIL BOUNDARY
 - TP#
 - TEST PIT

Site-Specific Soil Map Legend

Map Unit	Map Unit Name	Drainage Class	Moist (inch)	Hydrology	Notes
299C	Heavy fine sandy loam, very stony	Somewhat excessively drained	0.7-2.0	A	150/20
299B	Heavy fine sandy loam, very stony	Modestly well drained	0.8-2.0	C	325/30
299A	Light sandy loam, very stony	Excessively drained	1.0-1.5	A	150/20
299	Light sandy loam, very stony	Somewhat excessively drained	1.0-1.5	A	150/20
299B/C	Light sandy loam, very stony	Modestly well drained	0.74-1.4	C	300/30

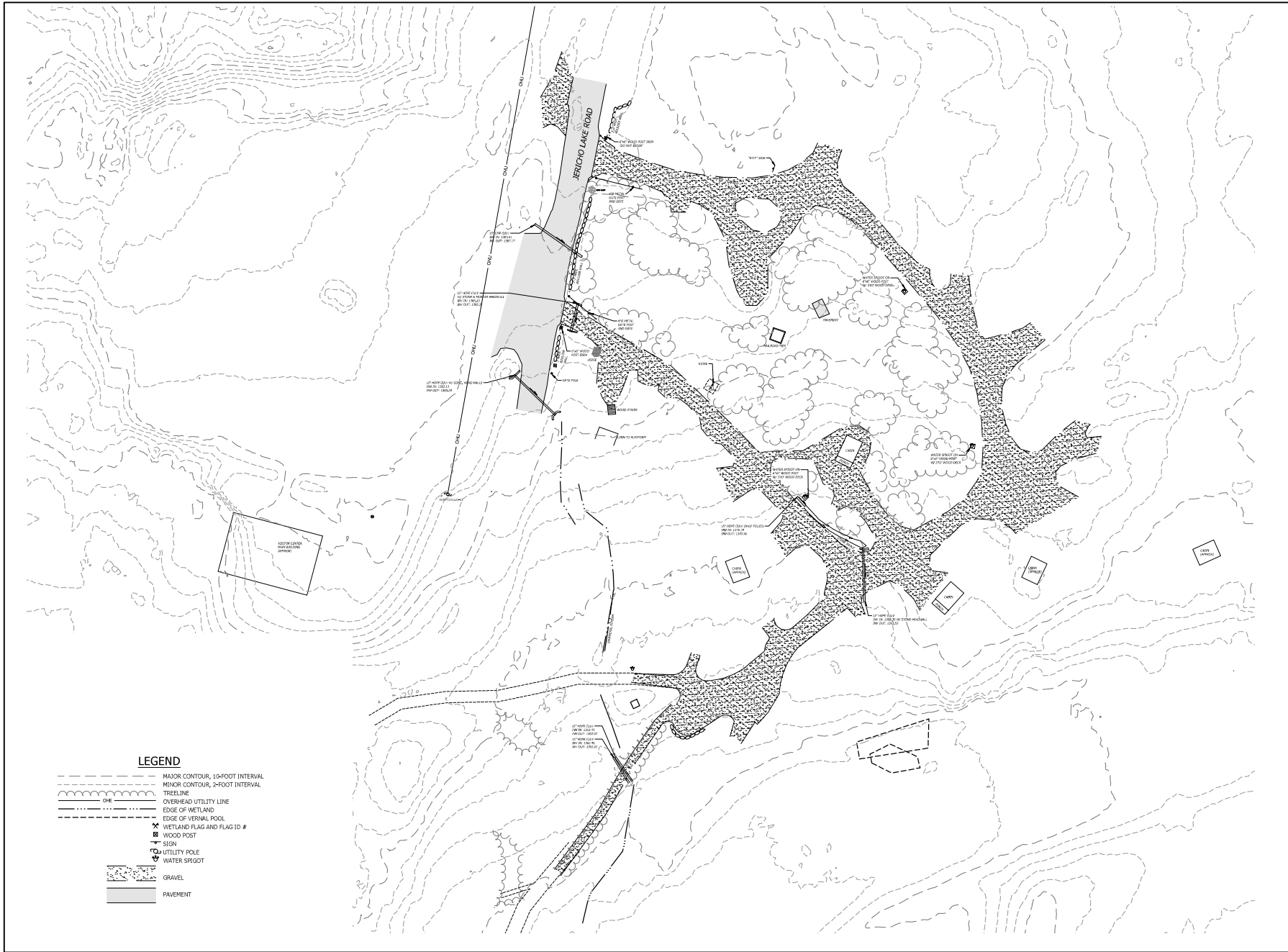
Slope Class

Slope Class	Range	Notes
A	0-2%	15-20%
B	2-6%	25-50%
C	6-15%	50-64%

1. The soil indicated in the Map Unit Symbol corresponds to the Soil Classification in the HSD. 2. The soil indicated in the Map Unit Symbol is shown in the Slope Class table to the right. 3. Note that in the legend, the soil is indicated by the letter in the Slope Class table. 4. The letter in the Slope Class table is the letter in the HSD. 5. The letter in the Slope Class table is the letter in the HSD. 6. The letter in the Slope Class table is the letter in the HSD. 7. The letter in the Slope Class table is the letter in the HSD. 8. The letter in the Slope Class table is the letter in the HSD. 9. The letter in the Slope Class table is the letter in the HSD. 10. The letter in the Slope Class table is the letter in the HSD.

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Z:\proj_2023\20818 SE Gravel - Campgrounds Plt\Internal\Civil\Bases\JERICHO\20818-SE-Gravel-C1.02_11/28/2023 3:53:00 PM DavidHeater



- LEGEND**
- MAJOR CONTOUR, 10-FOOT INTERVAL
 - MINOR CONTOUR, 2-FOOT INTERVAL
 - TREELINE
 - OVERHEAD UTILITY LINE
 - EDGE OF WETLAND
 - EDGE OF VERNAL POOL
 - WETLAND FLAG AND FLAG ID #
 - WOOD POST
 - SIGN
 - UTILITY POLE
 - WATER SPRIG
 - GRAVEL
 - PAVEMENT

NH STATE PARKS
Campground Expansion Project PII
Jericho Mountain State Park
288 Jericho Lake Road
Berlin, NH
03570

Issue
80% DESIGN



Scale: 1" = 30'
Date: November 29, 2023
Drawn By: DW
Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

Title
**EXISTING
CONDITIONS
AREA 2**
Sheet Number:
C1.02

Project Number: 23045001
File: 220838-jericho-site 80%_01.dwg

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LEGEND

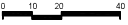
- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- TREELINE
- OVERHEAD UTILITY LINE
- EDGE OF WETLAND
- EDGE OF VERNAL POOL
- 50' SHORELAND BUFFER
- 25'-50'
- WETLAND FLAG AND FLAG ID #
- WOOD POST
- SIGN
- UTILITY POLE
- WATER SPRIGOT
- GRAVEL

NH STATE PARKS
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03570

Issue:

80% DESIGN

Graphic Scale
0 10 20 40



North



Scale: 1" = 20'

Date: November 29, 2023

Drawn By: DW

Checked By: RH

Issues:

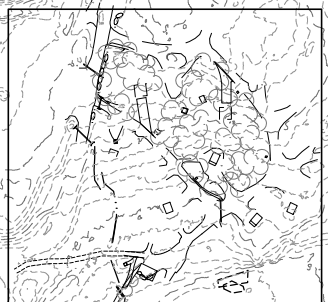
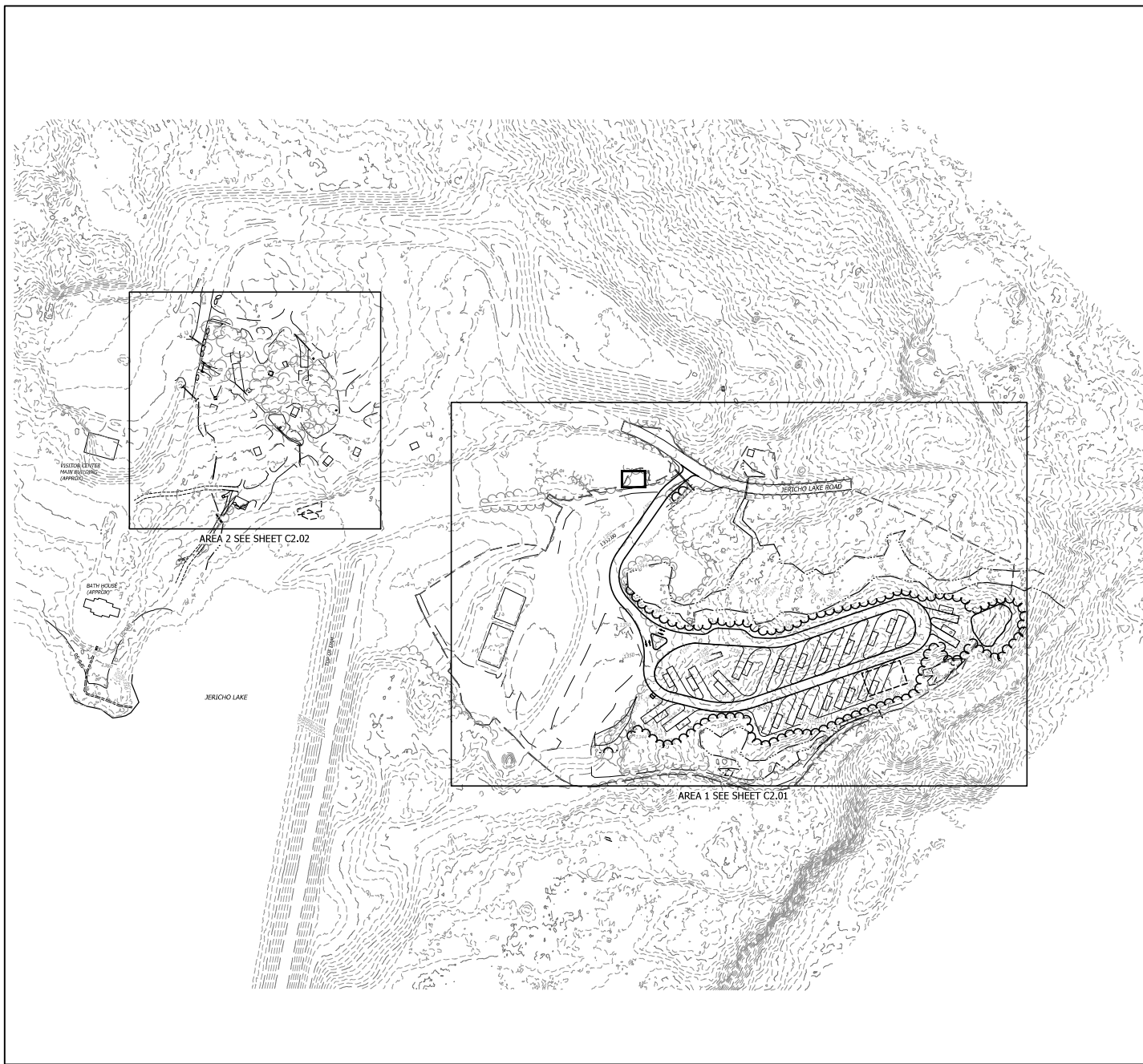
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1	Name	00/00/00

Title
**EXISTING
CONDITIONS
AREA 3**
Sheet Number:
C1.03

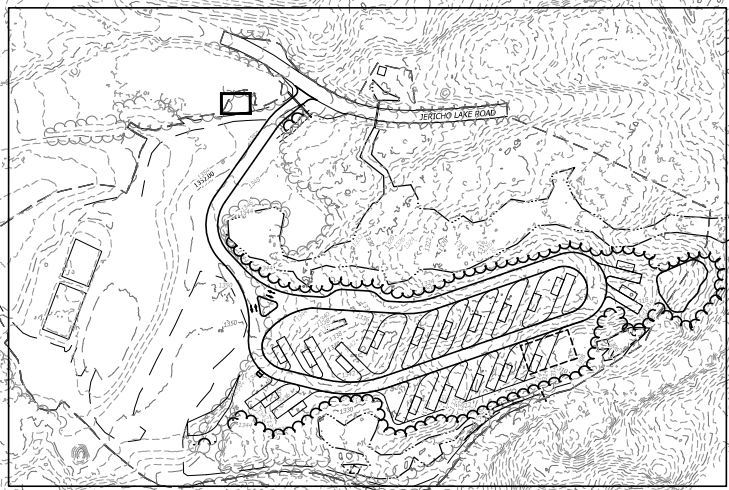
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Issues:

No.	Description	Date
1	Name	00/00/00

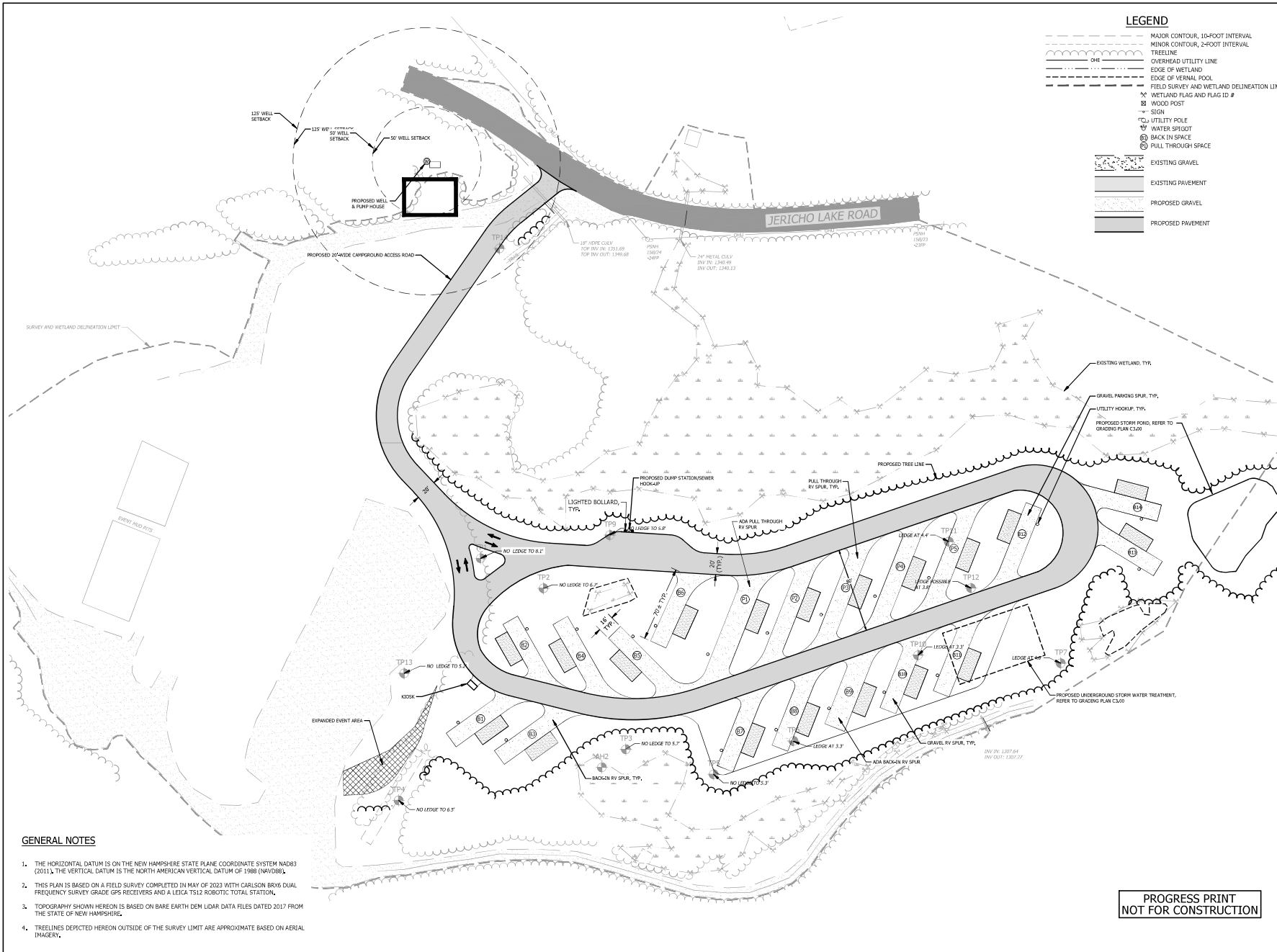


AREA 2 SEE SHEET C2.02



AREA 1 SEE SHEET C2.01

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- - - MINOR CONTOUR, 2-FOOT INTERVAL
- TRELLINE
- OVERHEAD UTILITY LINE
- EDGE OF WETLAND
- FIELD SURVEY AND WETLAND DELINEATION LIMIT
- WETLAND FLAG AND FLAG ID #
- ⊗ WOOD POST
- ⊕ SIGN
- ⊕ UTILITY POLE
- ⊕ WATER SPIGOT
- ⊕ BACK IN SPACE
- ⊕ FULL THROUGH SPACE

--- EXISTING GRAVEL

--- EXISTING PAVEMENT

--- PROPOSED GRAVEL

--- PROPOSED PAVEMENT

GENERAL NOTES

1. 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).
2. THIS PLAN IS BASED ON A FIELD SURVEY COMPLETED IN MAY OF 2023 WITH CARLSON BRX6 DUAL FREQUENCY SURVEY GRADE GPS RECEIVERS AND A LEICA TS12 ROBOTIC TOTAL STATION.
3. TOPOGRAPHY SHOWN HEREON IS BASED ON BARE EARTH DEM LIDAR DATA FILES DATED 2017 FROM THE STATE OF NEW HAMPSHIRE.
4. TRELLINES DETECTED HEREON OUTSIDE OF THE SURVEY LIMIT ARE APPROXIMATE BASED ON AERIAL IMAGERY.

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www.horizonsengineering.com

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03570

Issue

80% DESIGN

Graphic Scale
0 20 40 80

North

Scale: 1" = 40'

Date: November 29, 2023

Drawn By: DW

Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

Title

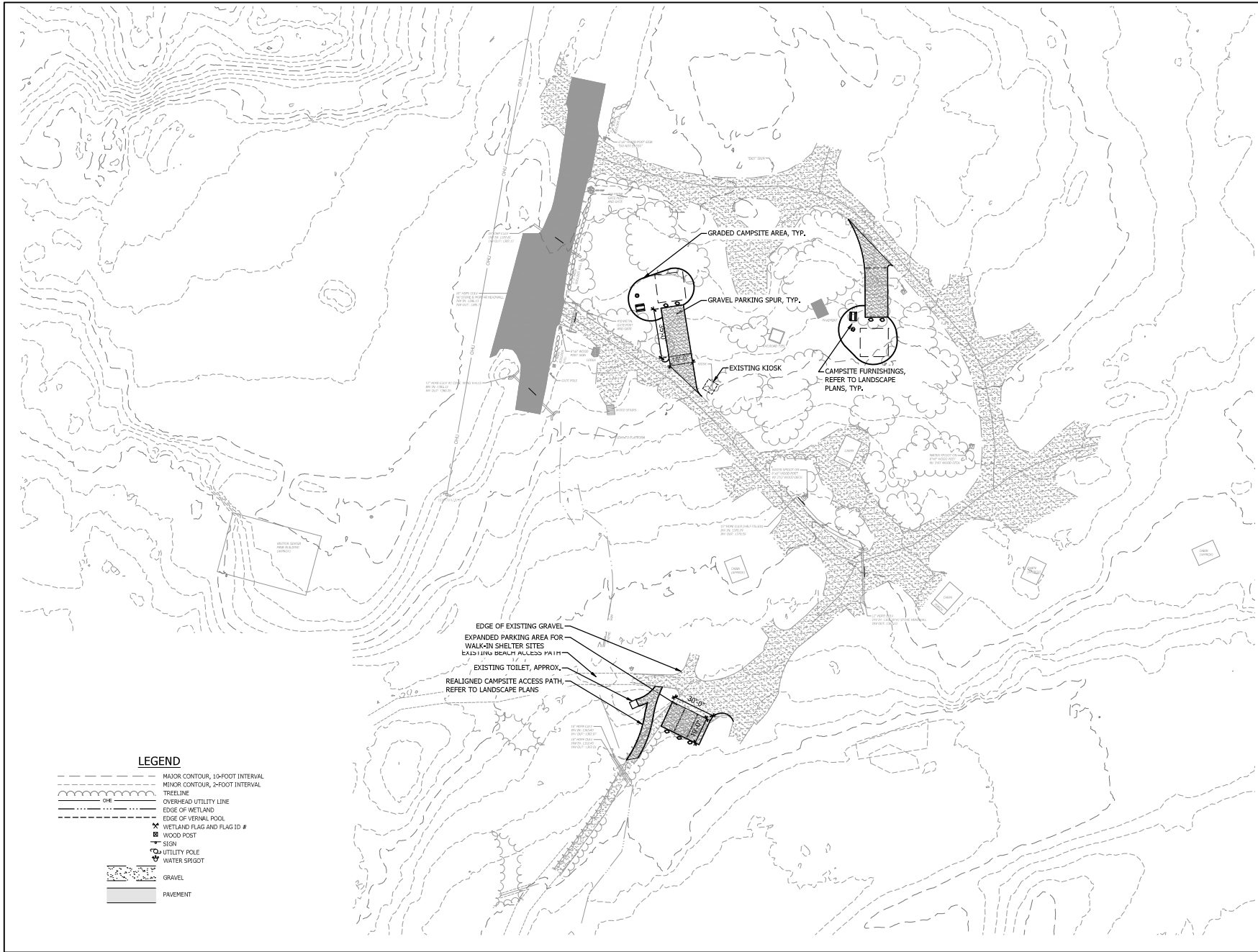
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AREA 1**

Sheet Number:

C2.01

Project Number: 23045001
File: 22083-jericho-site 80p_01.dwg

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LEGEND

	MAJOR CONTOUR, 10-FOOT INTERVAL
	MINOR CONTOUR, 2-FOOT INTERVAL
	TREELINE
	OVERHEAD UTILITY LINE
	EDGE OF WETLAND
	EDGE OF VERNAL POOL
	WETLAND FLAG AND FLAG ID #
	WOOD POST
	SIGN
	UTILITY POLE
	WATER SPRIG
	GRAVEL
	PAVEMENT

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Issue:
80% DESIGN



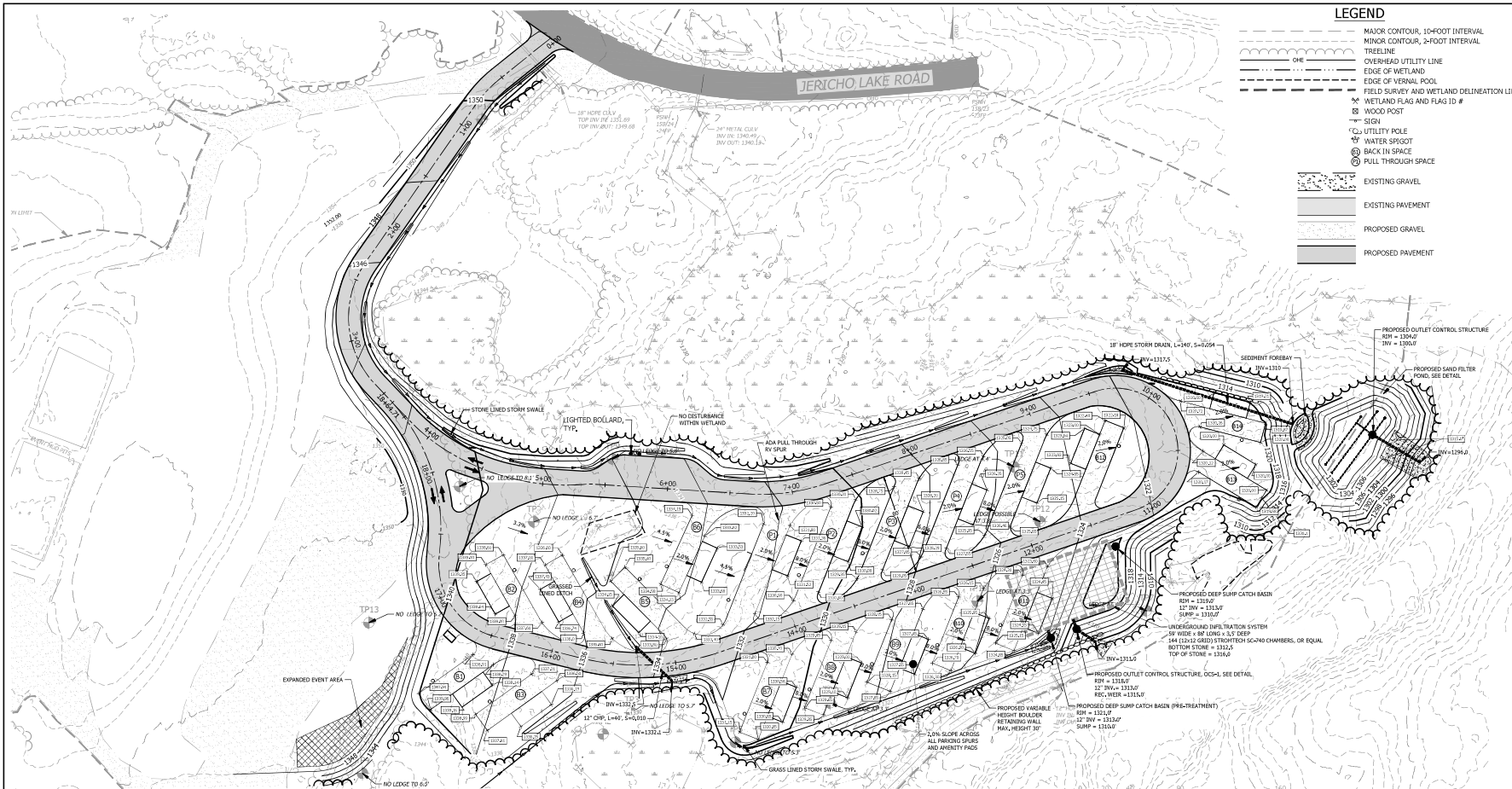
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Date: November 29, 2023
Drawn By: DW
Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

Title:
**SITE PLAN
AREA 2
C2.02**

Project Number: 23045001
File: 230338-jericho-site 80%_01.dwg



LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- MINOR CONTOUR, 2-FOOT INTERVAL
- TREELINE
- OVERHEAD UTILITY LINE
- EDGE OF WETLAND
- EDGE OF VERNAL POOL
- FIELD SURVEY AND WETLAND DELINEATION LIMIT
- WETLAND FLAG AND FLAG ID #
- WOOD POST
- SIGN
- UTILITY POLE
- WATER SPIGOT
- BACK IN SPACE
- PULL THROUGH SPACE
- EXISTING GRAVEL
- EXISTING PAVEMENT
- PROPOSED GRAVEL
- PROPOSED PAVEMENT

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Issue

80% DESIGN

Graphic Scale
0 20 40 80

North

Scale: 1" = 40'

Date: November 29, 2023

Drawn By: DW

Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

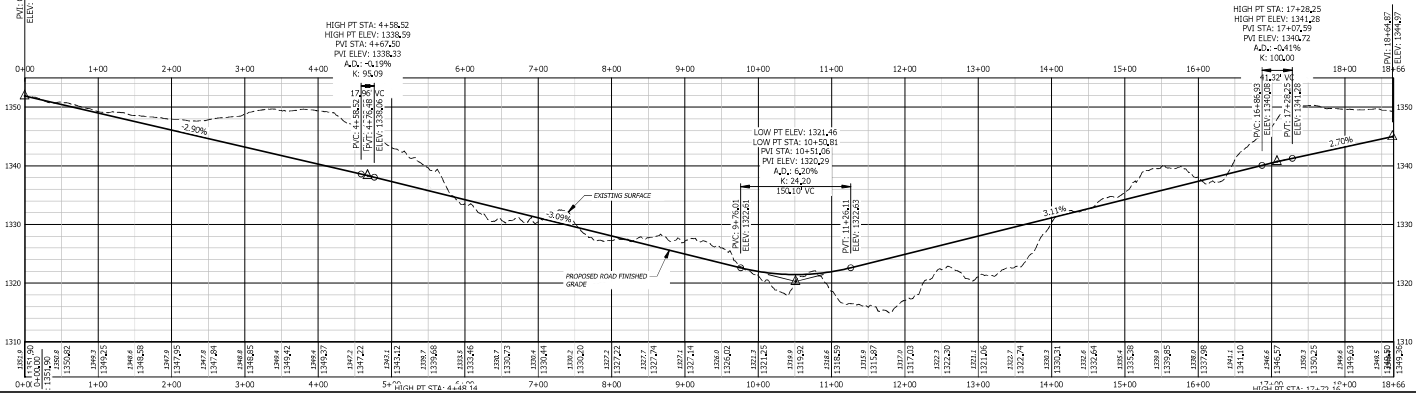
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**GRADING PLAN
AREA 1**

Sheet Number:

C3.00

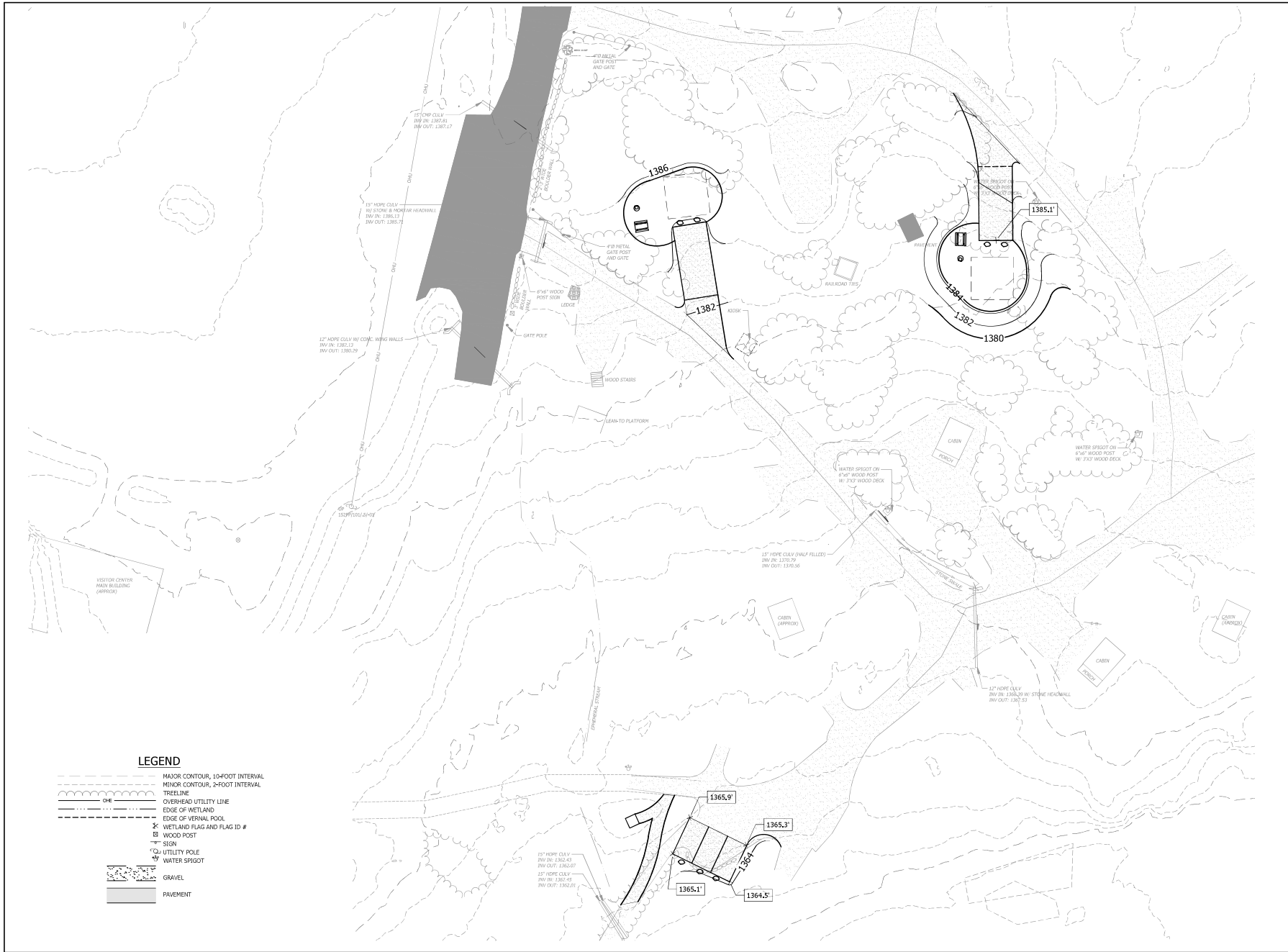
Project Number: 23045001
File: 220838-jericho-site-80p_01.dwg



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LEGEND

	MAJOR CONTOUR, 10-FOOT INTERVAL
	MINOR CONTOUR, 2-FOOT INTERVAL
	TREELINE
	OVERHEAD UTILITY LINE
	EDGE OF WETLAND
	EDGE OF VERNAL POOL
	WETLAND FLAG AND FLAG ID #
	WOOD POST
	SIGN
	UTILITY POLE
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	PAVEMENT

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Issue
80% DESIGN
Graphic Scale
0 10 20 40
North

Scale: 1" = 20'
Date: November 29, 2023
Drawn By: DW
Checked By: RH

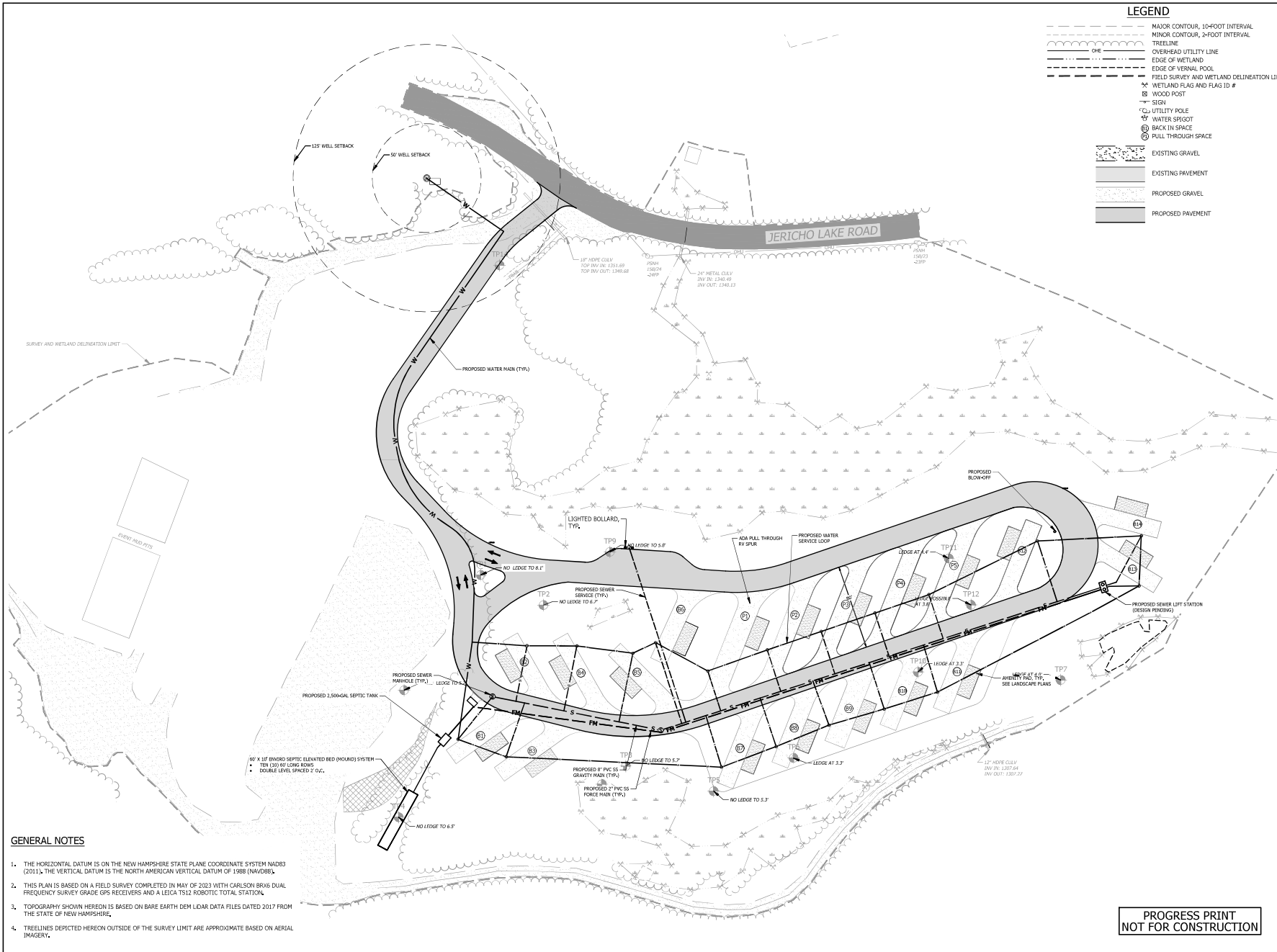
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No.	Description	Date
1	Name	00/00/00

Title
**GRADING PLAN
AREA 2
C3.01**

Sheet Number:
Project Number: 23045001
File: 220838-jericho-site 80_01.dwg

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LEGEND

- MAJOR CONTOUR, 10-FOOT INTERVAL
- - - MINOR CONTOUR, 2-FOOT INTERVAL
- TREELINE
- OVERHEAD UTILITY LINE
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- FIELD SURVEY AND WETLAND DELINEATION LIMIT
- WETLAND FLAG AND FLAG ID #
- WOOD POST
- SIGN
- UTILITY POLE
- WATER SPRISOT
- BACK IN SPACE
- PULL THROUGH SPACE
- EXISTING GRAVEL
- EXISTING PAVEMENT
- PROPOSED GRAVEL
- PROPOSED PAVEMENT

GENERAL NOTES

1. 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).
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 Date: November 29, 2023
 Drawn By: DW
 Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

Title
UTILITY PLAN AREA 1
 Sheet Number:
C4.00

Project Number: 23045001
 File: 220818-jericho-site 80p_01.dwg

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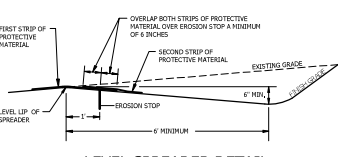
No.	Description	Date
1	Name	00/00/00

CONSTRUCTION SEQUENCE

1. PREPARE AN EROSION CONTROL PLAN OR A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
2. INSTALL CONSTRUCTION ENTRANCE, SEE DETAIL.
3. CUT AND CLEAR TREES WITHIN THE CLEARING LIMITS.
4. INSTALL SEDIMENT FENCES, ROCK CHECK DAMS, AND OTHER APPROPRIATE EROSION CONTROL MEASURES AT LOCATIONS SHOWN ON THE PLANS AND AS NEEDED.
5. GRUB SITE WITHIN CLEARING LIMITS.
6. STRIP AND STOCKPILE TOPSOIL AND INSTALL EROSION CONTROL MEASURES.
7. INSTALL/ADJUST SEDIMENT FENCE, CHECK DAMS, AND HAYBALES, AS REQUIRED.
8. 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.
9. 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 60 DAYS.
10. BEGIN SEEDING AND MULCHING IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED WITH APPROVED METHODS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
 - AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
11. INSPECT ALL EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER EVERY 0.2 INCHES OF PRECIPITATION. MAINTAIN SEDIMENT FENCE, SEDIMENT TRAPS, HAY BALES, ETC., AS NECESSARY.
12. PAVE ROADWAYS AND/OR PARKING AREAS.
13. PLACE TOPSOIL, SEED AND MULCH.
14. COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES.
15. MONITOR THE SITE AND MAINTAIN STRUCTURES AS NEEDED UNTIL FULL VEGETATION IS ESTABLISHED.

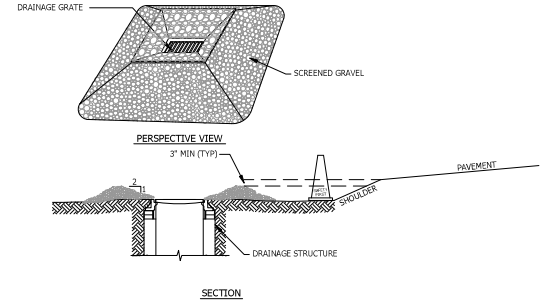
LEVEL LIP SPREADER INSTALLATION

1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. 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.
4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELLENCE MATTINGS ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A 1 PERCENT GRADE FOR AT LEAST 30 FEET BEFORE ENTERING INTO THE SPREADER.
6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
8. PROTECTIVE MATERIAL AND EROSION STOP SHALL BE NORTH AMERICAN GREEN C125 EROSION CONTROL BLANKET OR APPROVED EQUAL.



LEVEL SPREADER DETAIL

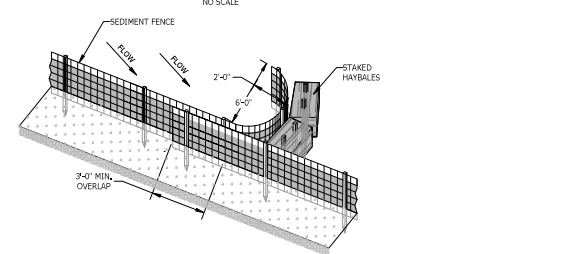
NO SCALE
SOURCE: ROCKINGHAM COUNTY CONSERVATION SERVICE



- MATERIALS SPECIFICATIONS:**
1. SCREENED GRAVEL: UNIFORMLY GRADED 1" TO 4" DIA. STONE.

- CONSTRUCTION SPECIFICATIONS:**
1. INSTALL GRAVEL INLET PROTECTION WHERE INDICATED OR WARRANTED.
 2. FOR ALL INSTALLATIONS WHERE INLET PROTECTION IS WITHIN 8' OF EDGE OF PAVEMENT, A ROADWAY CATCH SHALL BE USED BETWEEN CATCH BASIN AND SHOULDER.
 3. ENSURE CREST OF GRAVEL PLACED AROUND CATCH BASIN IS AT LEAST 3" BELOW ELEVATION OF EDGE OF PAVEMENT.

CATCH BASIN INLET PROTECTION DETAIL



SEDIMENT FENCE POCKET

NO SCALE

PROGRESS PRINT
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COLD WEATHER SITE STABILIZATION REQUIREMENTS

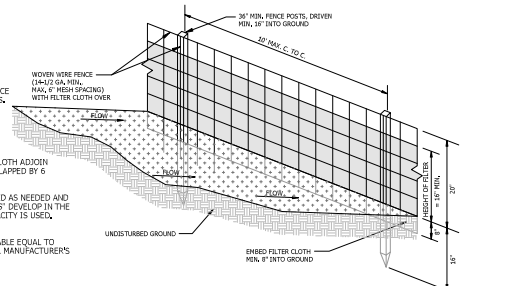
- TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1:
1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY TROW 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 CREEP SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.
 2. 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 EN-VQ 1506(S) THROUGH (H).
 3. ALL DISTURBED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY 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 EN-VQ 1506(S) THROUGH (H).
 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA OF EN-VQ 1506(S) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
 5. INSTALLATION OF EROSION CONTROL MATTING SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.
 6. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 & 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.
 7. 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.
 8. 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 2 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.

EROSION CONTROL GENERAL NOTES

1. **KEEP SITE MODIFICATION TO A MINIMUM**
 - 1. 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.
 - 2. EXPOSE AREAS OF BARE SOIL TO EXISTING ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
 - 3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
 - 4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.
 - 5. AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.
2. **MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES**
 - 1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.
 - 2. PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.
 - 3. USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.
 - 4. USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY FROM EROSION PRONE AREAS TO POINTS OF SAFE DISPOSAL.
 - 5. USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.
 - 6. PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS.
3. **PROTECT AREA AFTER CONSTRUCTION.**
 - 1. 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 GRASSES SHALL BE SEEDED WITHIN 72 HOURS. STABILIZATION SHALL BE DEFINED AS 85% VEGETATIVE COVER.
 - 2. MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE BEST MANAGEMENT PRACTICES DURING THE CONSTRUCTION PERIOD.
 - 3. MAINTAIN VEGETATED AREAS WITH PROPER 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION POND AND SEDIMENT BASINS AS NEEDED.
 - 4. DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.
 - 5. IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, REFER TO COLD WEATHER SITE STABILIZATION REQUIREMENTS.
4. **INVASIVE SPECIES AND FUGITIVE DUST**
 - 1. 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 303-B:19 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.
 - 2. FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH EN-V 1000.

CONSTRUCTION NOTES FOR SEDIMENT FENCE

1. WOVEN WIRE FENCE, IF REQUIRED, TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.
5. 12" DIAMETER FILTERTEX SILT/SOIL SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO STANDARD FENCE IF INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

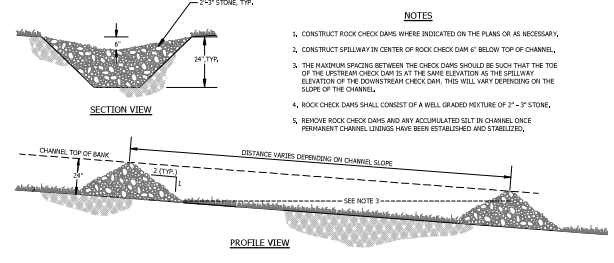


SEDIMENT FENCE

NO SCALE

ROCK CHECK DAM DETAIL

NO SCALE



ROCK CHECK DAM DETAIL

NO SCALE

SEEDING RECOMMENDATIONS

1. **GRADING AND SHAPING**
 - A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED, WHERE MOVING WILL BE DONE. 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. **SEEDING PREPARATION**
 - A. SURFACE AND SEEDING WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
3. **ESTABLISHING VEGETATION**
 - A. LINE AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LINE 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:
 - AMMONIUM NITRATE LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT.
 - NITROGEN (N), 50 LBS. PER ACRE OR 14 LBS. PER 1,000 SQ. FT.
 - PHOSPHATE (P₂O₅), 100 LBS. PER ACRE OR 22 LBS. PER 1,000 SQ. FT.
 - POTASH (K₂O), 100 LBS. PER ACRE OR 22 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).
 - B. 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 CLAYPACKING OR RAKING.
 - C. SEEDING GUIDE:

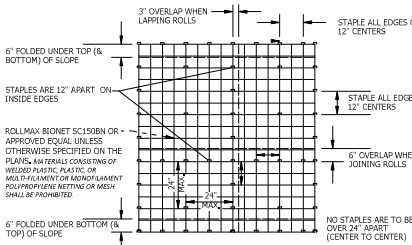
SEEDING MIXTURE (SEE 3D)	WELL DRAINED	POORLY DRAINED	POORLY DRAINED
STEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	FAIR	GOOD
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD
	B	GOOD	GOOD
 - 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
REEDTOP	42	0.95
TOTAL:		
B TALL FESCUE	15	0.35
CREEPING RED FESCUE	15	0.35
CROWN VETCH OR FLATPEA	15 OR 55	0.35 OR 1.45
TOTAL:		
C TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL:		
 - E. 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 15.
 - 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 15TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
QUATERS	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 15TH 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 NETTING DETAIL

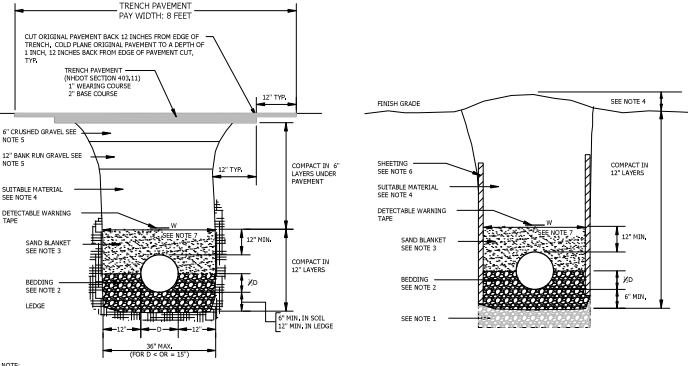
NO SCALE
SOURCE: USDA SOIL CONSERVATION SERVICE



STANDARD TRENCH NOTES - WATER

- ORDERED EXCAVATION OF UNSUITABLE MATERIAL** BELOW GRADE SHALL BE REPLACED WITH BEDDING MATERIAL. SEE ALSO NOTE 4.
- BEDDING:** SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 47.
 - 100% PASSING 1 INCH SCREEN
 - 90-100% PASSING 3/4 INCH SCREEN
 - 20-50% PASSING 1/2 INCH SCREEN
 - 0-10% PASSING #4 SIEVE
 - 0-5% PASSING #8 SIEVE
- SAND BLANKET:** CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 100% PASSES A 20 INCH SIEVE AND NOT MORE THAN 15% PASSES A #200 SIEVE.
- SUITABLE MATERIAL:** IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED FROM THE TRENCH DURING THE COURSE OF CONSTRUCTION, AFTER EXCLUDING DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIAL NOT APPROVED BY THE ENGINEER.

TRENCH BACKFILL IN CROSS-COUNTRY LOCATIONS SHALL BE SUITABLE MATERIAL AS DESCRIBED ABOVE, EXCEPT THAT TOP SOIL, LOAM, MUCK, OR PEAT MAY BE USED PROVIDED THAT THE COMPLETED CONSTRUCTION WILL BE STABLE AND ACCESS TO THE PIPE FOR MAINTENANCE AND RECONSTRUCTION IS PRESERVED. BACKFILL SHALL BE MOUNDING TO A HEIGHT OF SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- BASE COURSE FOR TRENCH REPAIR** SHALL MEET THE REQUIREMENTS OF SECTION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.
- SHEETING:** ALL TRENCH SUPPORTS SHALL CONFORM TO OSHA STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OSHA COMPLIANCE AND WORKER SAFETY THROUGHOUT CONSTRUCTION.
- TRENCH DIMENSIONS:** W = MAXIMUM ALLOWABLE TRENCH WIDTH MEASURED 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER (D) OR LESS, W SHALL BE NO MORE THAN 36 INCHES; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS THE PIPE OUTSIDE DIAMETER. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. THE MAXIMUM ALLOWABLE TRENCH PAYMENT WIDTH SHALL BE 8 FEET CENTERED OVER PIPE.
- WATER/SEWER SEPARATION:** WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER BY A MINIMUM OF 10 FEET HORIZONTALLY AND A MINIMUM OF 18 INCHES VERTICALLY, WITH THE WATER MAIN ABOVE THE SEWER.
- PIPE COVER:** COVER OVER WATER SHALL BE 6 FEET MINIMUM IN ALL LOCATIONS.



EARTH CONSTRUCTION WITH OR WITHOUT SHEETING

– BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL
 – THE PIPE JOINT AND SOILS MUST BE ACCESSIBLE
 – CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A COMPRESSION STRENGTH OF 3,000 LBS. AT 28 DAYS.
 – BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCES.

RESTRAINED JOINTS MAY BE USED FOR RESISTING THRUST FORCES WHERE THERE IS A SHORTAGE OF SPACE OR WHERE THE SOIL BEHIND A FITTING WILL NOT PROVIDE ADEQUATE SUPPORT. THIS RESTRAINING METHOD INVOLVES PLACEMENT OF THESE SPECIAL JOINTS AT APPROPRIATE FITTINGS AND FOR A PREDETERMINED NUMBER OF PIPE LENGTHS ON EACH SIDE. (MINIMUM IS 15 FEET).

NOTE: TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST SHOWN IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100. FOR EXAMPLE, THE THRUST ON A 12 INCH, 90° BEND AT 225 PSI IS:

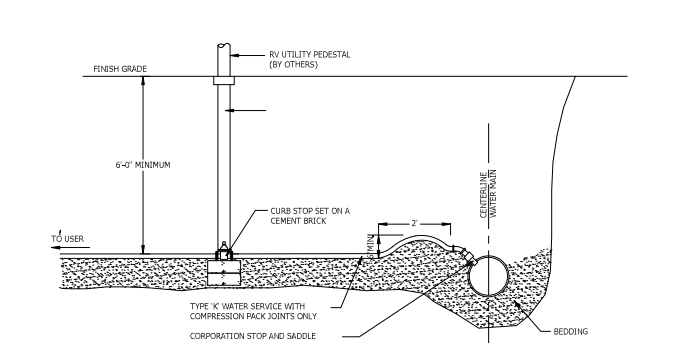
15,363 x 2.25 = 34,567 POUNDS

TO DETERMINE THE SIZE OF A CONCRETE THRUST BLOCK, DIVIDE THE TOTAL FORCE BY THE BEARING VALUE OF THE SOIL. THE QUOTIENT WILL BE THE SIZE OF THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET. APPROXIMATE VALUES FOR VARIOUS TYPES OF SOIL ARE LISTED BELOW.

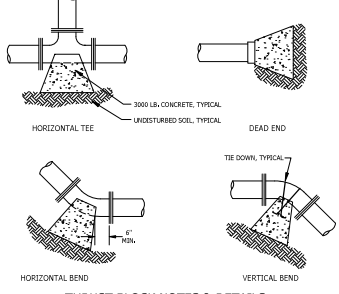
RESULTANT THRUST AT FITTINGS AT 100 PSI WATER PRESSURE	TOTAL THRUST (POUNDS)			
NOMINAL PIPE DIA. (INCHES)	90° BEND	45° BEND	22 1/2° BEND	1 1/2° BEND
4	1,200	2,200	1,100	700
6	1,700	3,200	1,600	1,000
8	2,400	4,500	2,200	1,400
10	3,300	6,200	3,100	1,900
12	4,500	8,400	4,200	2,600
14	6,000	11,300	5,600	3,600
16	7,800	15,000	7,400	4,800
18	9,900	19,500	9,700	6,300
20	12,300	24,800	12,400	8,100
24	16,800	33,800	17,100	11,100
30	24,000	48,000	24,000	15,600

SOIL	BEARING LOAD (LBS./SQ. FT.)
ROCK	10,000
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000

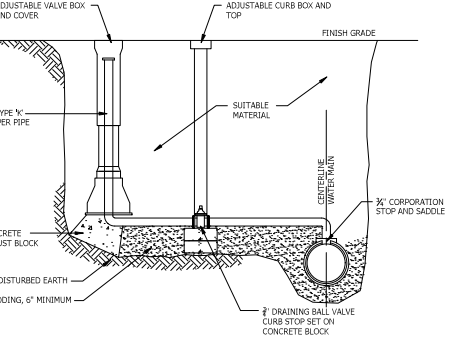
STANDARD TRENCH SECTIONS



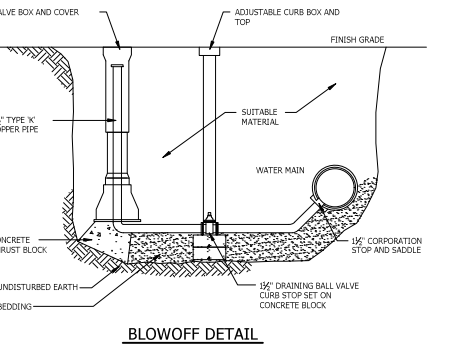
WATER SERVICE CONNECTION



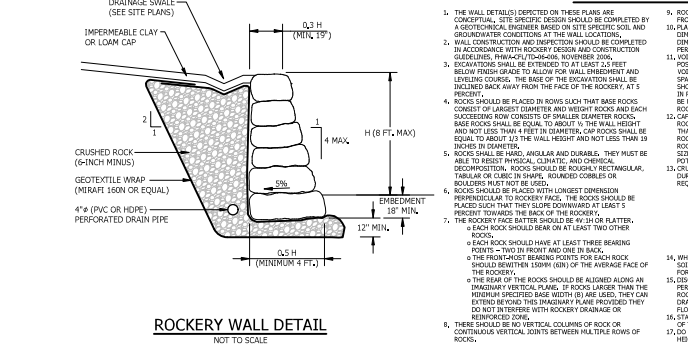
THRUST BLOCK NOTES & DETAILS



AIR RELEASE DETAIL



BLOWOFF DETAIL



ROCKERY WALL DETAIL

ROCKERY WALL NOTES

- THE WALL DETAILS DEPICTED ON THESE PLANS ARE CONCEPTUAL. SITE SPECIFIC DESIGN SHOULD BE CONSULTED 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-RD-1704-06, NOVEMBER 2016.
- ROCKERY WALLS SHALL EXTEND TO AT LEAST 20 FEET BELOW FINISH GRADE TO ALLOW FOR WALL EMBEDMENT AND EXISTING COURSES. THE BASE OF THE EXCAVATION SHALL BE INCLINED BACK AWAY FROM THE FACE OF THE ROCKERY, AT 1:3 SLOPE.
- ROCKS SHOULD BE PLACED IN DRIVE SLACK THAT BASE ROCKS CONSIST OF LARGEST QUARTER AND WEIGHT ROCKS AND EACH COURSE SHALL BE PLACED IN DRIVE SLACK. THE WEIGHT OF EACH COURSE SHALL BE EQUAL TO ABOUT 1/3 THE WALL HEIGHT AND NOT LESS THAN 15,000 LBS. PER LINEAL FOOT. THE WEIGHT OF EACH COURSE SHALL BE EQUAL TO ABOUT 1/3 THE WALL HEIGHT AND NOT LESS THAN 15,000 LBS. PER LINEAL FOOT.
- ROCKS SHALL BE HARD, ANGULAR AND DURABLE, THEY MUST BE ABLE TO RESIST PHYSICAL, CLIMATIC, AND CHEMICAL DEGRADATION. ROCKS SHOULD BE ROCKY, RECTANGULAR, TABULAR OR CURB IN SHAPE, ROUNDED CORNERS OR BOLLERS 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 DEGREES FROM THE BACK OR REAR FACE OF THE ROCKERY.
- THE ROCKERY FACE BATTER SHOULD BE 1/4 IN OR FLATTER.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
- ROCKS SHOULD HAVE AT LEAST THREE BEARING POINTS – TWO IN FRONT AND ONE IN BACK.
 - IF THE FRONT TWO BEARING POINTS FOR EACH ROCK SHOULD BE WITHIN 150MM (6 IN) OF THE AVERAGE FACE OF THE ROCKERY.
 - IF THE REAR OF THE ROCKS SHOULD BE ALSO ALIGNED ALONG AN IMAGINARY VERTICAL PLANE. IF ROCKS LARGER THAN THE MINIMUM SPECIFIED BASE WIDTH (B) ARE USED, THEY CAN BE PLACED BEHIND THE IMAGINARY PLANE PROVIDED THEY DO NOT INTERFERE WITH ROCKERY DRAINAGE OR DRAINAGE STRUCTURE.
- THESE SHALL BE THE VERTICAL LOCATIONS OF ROCK OR CONTIGUOUS VERTICAL JOINTS BETWEEN MULTIPLE ROWS OF ROCKS.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
 - IF ROCKS ARE PLACED IN DRIVE SLACK, THE BATTER SHOULD BE 1/4 IN OR FLATTER.
- ROCK WIDTH SHALL BE LARGE ENOUGH TO EXTEND FROM THE FRONT FACE TO THE BACK OF THE ROCKERY AT EACH LEVEL.
- PLACE BASE PAVING AND CAP ROCKS SO THAT THEIR HEIGHT DIMENSION IS NOT GREATER THAN THEIR WIDTH. THE LONGEST DIMENSION OF THE BASE, PAVING, AND CAP ROCKS IS PERPENDICULAR TO ROCKERY FACE.
- VOIDS BETWEEN ROCKS SHOULD BE AVOIDED AS MUCH AS POSSIBLE. HOWEVER, IF Voids ARE NECESSARY, THEY SHOULD BE FILLED WITH CONCRETE. CONCRETE SHOULD NOT BE USED AS A MEANS OF SUPPORT FOR OVERLAPPING FACING ROCKS.
- CAP ROCKS ARE THE TOP ROW OF FACING ROCKS FOR ROCKERIES. CAP ROCKS ARE TYPICALLY SMALLER AND FLATTER THAN THE OTHER ROCKS USED IN THE ROCKERY. CAP ROCKS SHALL HAVE A WEIGHT OF AT LEAST 200 POUNDS. CAP ROCKS SHOULD BE PLACED BY HAND, REGARDLESS OF SIZE. CAP ROCKS SHALL BE CURED IN PLACE TO REDUCE THE POTENTIAL FOR DISINTEGRATION.
- CRUSHED ROCK SHOULD CONSIST OF CRUSHED, WASHED, HARD, DURABLE ROCK MEETING THE FOLLOWING GRANULOMETER REQUIREMENTS:

CRUSHED ROCK	PERCENT FINER BY WEIGHT
SEVEN EIGHTS (7/8)	100
THREE EIGHTS (3/8)	100
FOUR EIGHTS (1/2)	100
NUMBER FIVE (3/4)	100
NUMBER SIX (3/8)	100
NUMBER SEVEN (1/2)	100
NUMBER EIGHT (3/4)	100
NUMBER NINE (1/2)	100
NUMBER TEN (3/8)	100
NUMBER ELEVEN (1/2)	100
NUMBER TWELVE (3/4)	100
- 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 BACKUP DURING HEAVY RAINING.
- STABILITY OF TEMPORARY CUT SLOPES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT CONSTRUCT ROCKERIES OR SLOPES EXCEEDING THE HEIGHTS SHOWN ON THE PLANS.

**PROGRESS PRINT
NOT FOR CONSTRUCTION**

Issues:

No.	Description	Date
1	Name	00/00/00

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SEWER NOTES

1. GENERAL
CONSTRUCTION OF ALL COMPONENTS OF THE SANITARY SEWER SYSTEM SHALL CONFORM TO THE MOST CURRENT VERSION OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ENH-HQ 700 AND TECHNICAL SPECIFICATIONS ENTITLED " "

2. TYPES OF SEWERS
A. THERE SHALL BE NO CONNECTION BETWEEN SANITARY SEWERS AND STORM SEWERS, RUNOFF FROM ROOFS, STREETS, AND OTHER AREAS AND GROUNDWATER FROM FOUNDATION DRAINS, SUMP PUMPS, OR OTHER SUBSURFACE DRAINS SHALL BE EXCLUDED FROM SANITARY SEWERS.

3. SEWER SIZE AND COVER
A. MINIMUM PIPE SIZE FOR GRAVITY SEWER MAINS SHALL BE 8 INCHES.
B. MINIMUM PIPE SIZE FOR GRAVITY SEWER SERVICES SHALL BE 4 INCHES.
C. MINIMUM PIPE SIZE FOR FORCE MAIN SEWER SERVICES SHALL BE 2 INCHES.
D. SANITARY SEWERS SHALL HAVE 6 FEET MINIMUM COVER IN ALL ROADWAY LOCATIONS AND 4 FEET MINIMUM COVER IN ALL CROSS-COUNTRY LOCATIONS.

4. PIPE AND FITTINGS MATERIALS:
A. DUCTILE IRON PIPE
DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION:
(1) AWWA C151 FOR DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS;
(2) AWWA C150 FOR THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A 36 IRON CASTINGS; AND
(3) JOINTS SHALL BE MECHANICAL TYPE, PUSH-ON TYPE, OR BALL-AND-SOCKET TYPE;
B. PVC (POLY VINYL CHLORIDE) PIPE
PVC PIPE AND FITTINGS SHALL BE APPROVED FOR SEWAGE SERVICE AND CONFORM TO THE FOLLOWING:
(1) PVC PIPE USED FOR GRAVITY SEWERS SHALL BE TYPE SDR 35 CONFORMING TO ASTM D3034;
(2) PVC PIPE USED FOR FORCE MAINS SHALL BE TYPE SDR 26 CONFORMING TO ASTM D2241 OR ASTM D3778;
(3) JOINTS SHALL BE PUSH-ON, BELL-AND-SPOUT TYPE HAVING OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D3212.

5. BEDDING
PIPE BEDDING SHALL BE SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 67. BEDDING SHALL EXTEND FROM THE SPRING LINE OF THE PIPE TO A MINIMUM DEPTH OF 6" BELOW THE BOTTOM OF THE PIPE OUTSIDE SURFACE.
100% PASSING 1 INCH SCREEN
90-100% PASSING 3/4 INCH SCREEN
20-50% PASSING 3/8 INCH SCREEN
0-10% PASSING #4 SIEVE
0-5% PASSING #8 SIEVE

6. MANHOLES
A. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C476.
B. MANHOLES SHALL BE DESIGNED FOR H-20 LOADING.
C. HORIZONTAL JOINTS BETWEEN BARREL SECTIONS SHALL BE OF AN OVERLAPPING TYPE WHICH SHALL DEPEND UPON A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT FOR WATER TIGHTNESS.
D. PIPE TO MANHOLE JOINTS SHALL BE AS FOLLOWS:
(1) ELASTOMERIC RUBBER SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES;
(2) CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS;
(3) ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND
(4) NON-SHRINK GROUTED JOINTS WHERE WATERTIGHT BONDING TO THE MANHOLE AND PIPE CAN BE OBTAINED.
E. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.

7. PROTECTION OF WATER SUPPLIES
A. THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE WATER SUPPLY SYSTEM AND A SEWER OR SEWER APPURTENANCE WHICH WOULD PERMIT THE PASSAGE OF SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
B. NO SEWER SHALL BE LOCATED WITHIN THE WELL PROTECTIVE RADIUS ESTABLISHED IN ENH-W 300 FOR ANY PUBLIC WATER SUPPLY WELLS OR WITHIN 100 FEET OF ANY PRIVATE WATER SUPPLY WELL.
C. SEWERS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
D. A DEVIATION FROM THE SEPARATION REQUIREMENTS OF (B) OR (C) ABOVE SHALL BE ALLOWED WHERE NECESSARY TO AVOID CONFLICT WITH SUBSURFACE STRUCTURES, UTILITY CHAMBERS, AND BUILDING FOUNDATIONS, PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENTS SPECIFIED IN ENH-WQ 704.06.
E. WHENEVER SEWERS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS:
(1) VERTICAL SEPARATION OF THE SEWER AND WATER MAIN SHALL BE NOT LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
(2) SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.

STANDARD TRENCH NOTES - SEWER

1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE SHALL BE REPLACED WITH BEDDING MATERIAL. SEE ALSO NOTE 4.
2. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 67.

3. SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 100% PASSES A 3/8 INCH SIEVE AND NOT MORE THAN 15% PASSES A #200 SIEVE.
1 INCH SCREEN
90-100% PASSING 3/4 INCH SCREEN
20-50% PASSING 3/8 INCH SCREEN
0-10% PASSING #4 SIEVE
0-5% PASSING #8 SIEVE

4. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELLED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED FROM THE TRENCH DURING THE COURSE OF CONSTRUCTION, AFTER EXCLUDING DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, WEET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIAL NOT APPROVED BY THE ENGINEER.

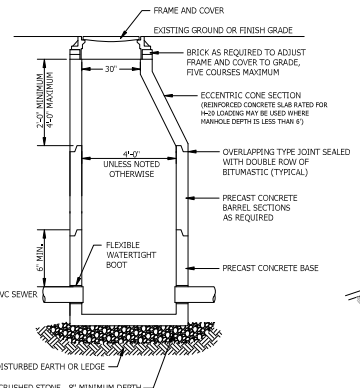
TRENCH BACKFILL IN CROSS-COUNTRY LOCATIONS SHALL BE SUITABLE MATERIAL AS DESCRIBED ABOVE, EXCEPT THAT TOP SOIL, LOAM MUCK, OR PEAT MAY BE USED PROVIDED THAT THE COMPLETED CONSTRUCTION WILL BE STABLE AND ACCUSED TO THE PIPE FOR MAINTENANCE AND RECONSTRUCTION IS PRESERVED. BACKFILL SHALL BE HENCED TO A HEIGHT OF SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.

5. BASE COURSE FOR TRENCH REPAIRS SHALL MEET THE REQUIREMENTS OF SECTION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

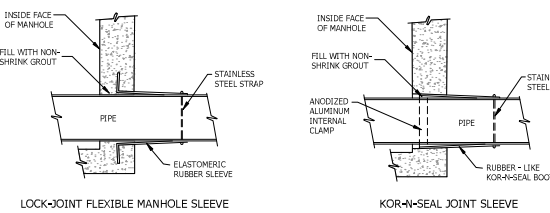
6. SHEETING: ALL TRENCH SUPPORTS SHALL CONFORM TO OSHA STANDARDS, CONTRACTOR IS RESPONSIBLE FOR OSHA COMPLIANCE AND WORKER SAFETY THROUGHOUT CONSTRUCTION.

7. TRENCH DIMENSIONS: W = MAXIMUM ALLOWABLE TRENCH WIDTH MEASURED 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER (D) OR LESS, W SHALL BE NO MORE THAN 26 INCHES; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS THE PIPE OUTSIDE DIAMETER. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. THE MAXIMUM ALLOWABLE TRENCH PAVEMENT PAYMENT WIDTH SHALL BE 6 FEET CENTERED OVER PIPE.

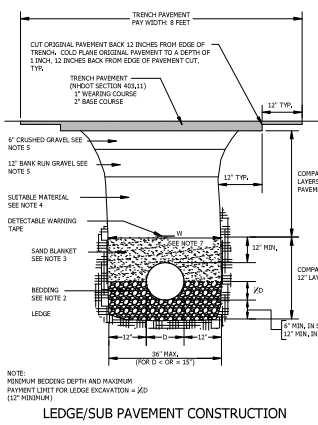
8. PIPE INSULATION AT STORM DRAIN CROSSING: INSTALL 2" THICK RIGID FOAM INSULATION OVER SEWER AT STORM DRAIN CROSSINGS, EXTEND INSULATION 4 FEET EITHER SIDE OF STORM DRAIN ALONG SEWER.



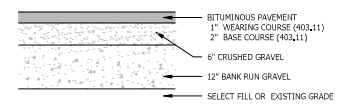
SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE



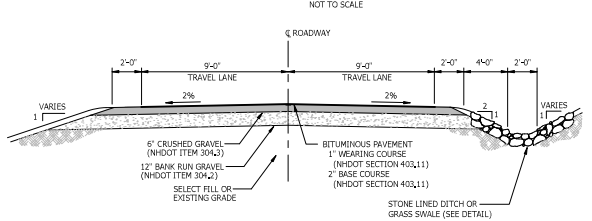
JOINTING DETAILS
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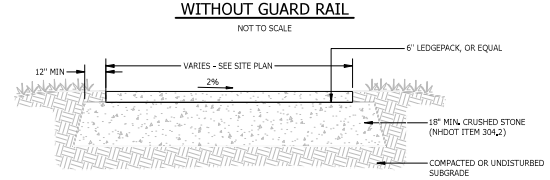
STANDARD TRENCH SECTIONS
NOT TO SCALE



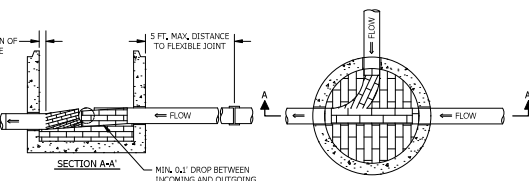
TYPICAL PAVEMENT SECTION
NOT TO SCALE



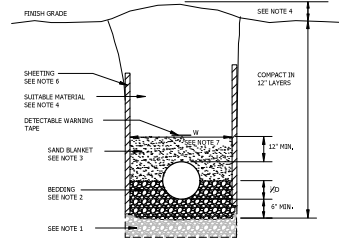
TYPICAL ROAD CROSS SECTION WITHOUT GUARD RAIL
NOT TO SCALE



TYPICAL LEDGE PACK RV PARKING AREA SECTION DETAIL
NOT TO SCALE

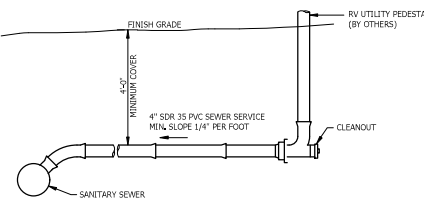


MANHOLE INVERT DETAILS
NOT TO SCALE

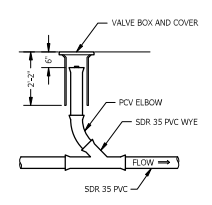


LEDGE/SUB PAVEMENT CONSTRUCTION
NOT TO SCALE

EARTH CONSTRUCTION WITH OR WITHOUT SHEETING
NOT TO SCALE



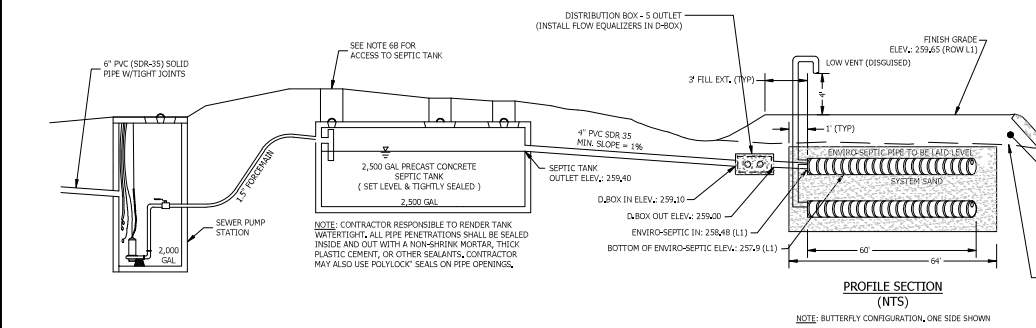
SEWER SERVICE DETAIL
NOT TO SCALE



SEWER CLEANOUT DETAIL
NOT TO SCALE

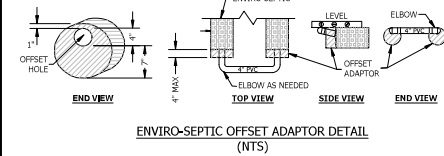
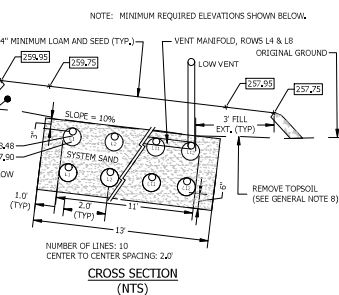
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No.	Description	Date
1	Name	00/00/00



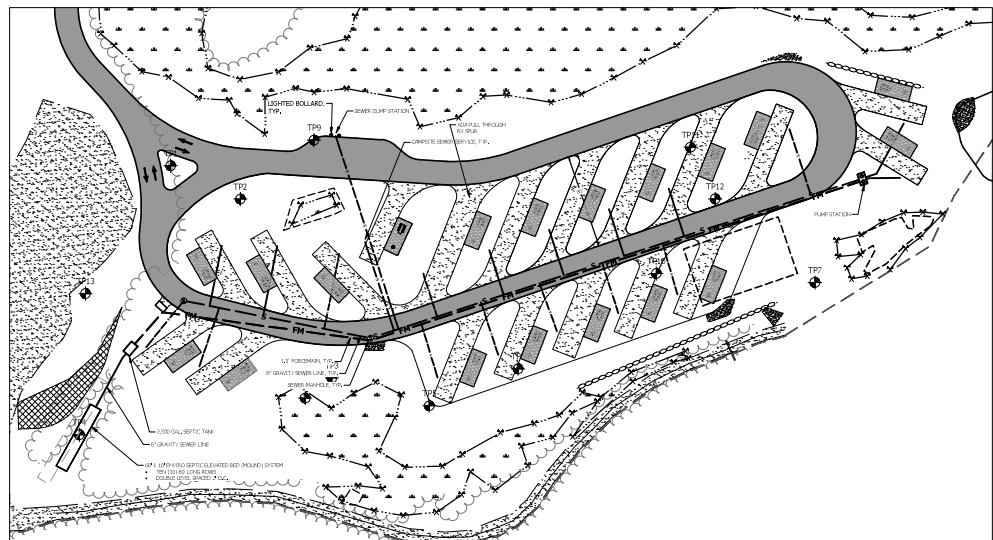
ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY

SYSTEM SAND SPECIFICATION:
SAND: 40-50% OF TOTAL SAND TO BE COARSE AND VERY COARSE, NO SAND SMALLER THAN 0.075MM, 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\"/>



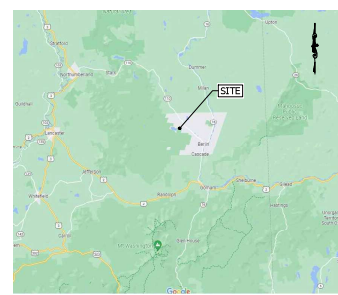
GENERAL NOTES

- 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 ENR400-1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION.
- CALL DIG-54PE 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, SCARP 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 ON TOP OF LEACHFIELD).
- RECOMMENDED OPERATING PROCEDURES:
 - A. 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.
 - E. 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.
 - F. THE TANK SIZE SHALL BE INCREASED BY 20% IF A GARAGE GRINDER IS TO BE INSTALLED.
- PIPPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE WATER TIGHT, THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT.
- THE DISTRIBUTION BOX SHALL HAVE S.S. 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.
- 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 THE PROPERTY.



TEST PIT #3

EXISTING GROUND - FOREST FLOOR	DEPTH	DESCRIPTION
BLACK	5.0R 2.01	2" FIBRIC ORGANIC MATERIALS, WEAK (FINE GRAVELLY, V. FINE SAND (SILT)) GRAVELLY SAND, SINGLE GRAIN, (LOOSE FILL)
BROWN	2.5R 4.14	12" FINE SANDY LOAM, WEAK FINE GRAVELLY, V. FINE SAND (SILT) SUBANG BLOCKY, V. FRAGILE
VERY DARK YELLOWISH BROWN	3.0R 3.12	12" FINE SANDY LOAM, WEAK MEDIUM SUBANG BLOCKY, V. FRAGILE
STRONG BROWN	7.5R 4.16	24" FINE SANDY LOAM, WEAK MEDIUM SUBANG BLOCKY, V. FRAGILE
DARK YELLOWISH BROWN	3.0R 4.16	36" LOAMY FINE SAND, MEDIUM SUBANG BLOCKY, V. FRAGILE
YELLOWISH BROWN	3.0R 5.14	48" LOAMY FINE SAND, MEDIUM SUBANG BLOCKY, V. FRAGILE
OLIVE BROWN	2.5R 4.13	12" LOAMY FINE SAND, MEDIUM SUBANG BLOCKY, V. FRAGILE
OLIVE BROWN	2.5R 4.13	36" LOAMY FINE SAND, MEDIUM SUBANG BLOCKY, V. FRAGILE



LOCATION MAP
DIRECTIONS FROM I-93 EXIT 35:
FOLLOW US-1 N TO NH-115 N IN CARROLL, 15 MIN (12.4 MI)
TURN RIGHT ONTO NH-115 N, 11 MIN (5.2 MI)
TURN RIGHT ONTO US-2 E, 1.5 MIN (1.2 MI)
CONTINUE ON NH-145 N TO NH-110 N (JERICHO ROAD)

TIE TABLE

BATHHOUSE 6
ELEVATION: NONE TO DEPTH: 30"
WATER OBSERVED: NONE
LEACH FIELD: NONE TO DEPTH: 30"
INSOLVED BY: ADAM OGDON, DODSON ENVIRONMENTAL
DATE: 2 OCTOBER 2023
SOILS TYPE: 4C2 CANYON FINE SANDY LOAM, VERY STONY
REFERENCE: MRS WEB SOIL SURVEY, ROCKINGHAM COUNTY NH (NH155)

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

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

DATE OF PRINT
NOVEMBER 28 2023
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LOT LOADING:
JERICHO STATE PARK EXCEED 5500 ACRES. PROJECT MEETS LOT LOADING.

DESIGN INTENT
BOTTOM OF EFFLUENT DISPOSAL AREA TO BE SET AT ELEV. 257.40 THERE IS APPROXIMATELY 4.2 (FOUR AND TWO 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
COMPOSITES SERVED: 2407
REQUIRED SEWAGE LOADING: 26,67 x 45 GPD = 1,200 GPD
DESIGN SEWAGE LOADING = 1200 GPD
PERCOLATION RATE: 6 MIN / INCH
ENVIRO-SEPTIC REQUIRED = 600 LF
ENVIRO-SEPTIC PROVIDED = 600 LF
ORIGINAL GROUND ELEVATION AT THE HIGH CONTOUR: 261.6 (@ L1)
BOTTOM OF ENVIRO-SEPTIC PIPE ELEVATION: 257.9 (@ L1)

SEPTIC TANK
2 x DAILY FLOW = 2,400GAL (USE NEXT LARGER COMMERCIAL SIZE)
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 SEWING 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 ORING OF THE HIGH VENT MUST BE AT LEAST 18 FEET ABOVE THE OPENING OF THE LOW VENT.

LOW VENTS ARE INSTALLED THROUGH AN OFFSET ADAPTOR AT THE END OF EACH SEPTIC SYSTEM OR BEB.
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, IF NECESSARY, ADD DRIBBS OR OTHER VEGETATION TO SCREEN VENTS. "CANDY CANE" STYLE VENT COVERS ARE NOT PREFERRED. USE "HARDHORN" 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 INSTALLING THE SYSTEM. CONTRACTOR SHALL PROVIDE A SAND TEST AT THE LEACH AREA LOW VENT TO DETERMINE THAT AN EFFLUENT FILTER IS NOT NEEDED. THE SAND TEST AND FILTER SHALL BE INSTALLED PRIOR TO THE START OF FLOW AND CONTINUED THROUGHOUT THE ENTIRE CONSTRUCTION OF THE SYSTEM. REMOVE FILTER BEFORE BACKFILLING BOTTOM.

NH STATE PARKS
Campground Expansion Project PH
Jericho Mountain State Park
288 Jericho Lake Road
Berlin, NH
03570

Issue:
80% DESIGN
Graphic Scale

North

Scale: 1" = 40'
Date: November 29, 2023

Drawn By: DW
Checked By: RH

Issues:

No.	Description	Date
1	Name	00/00/00

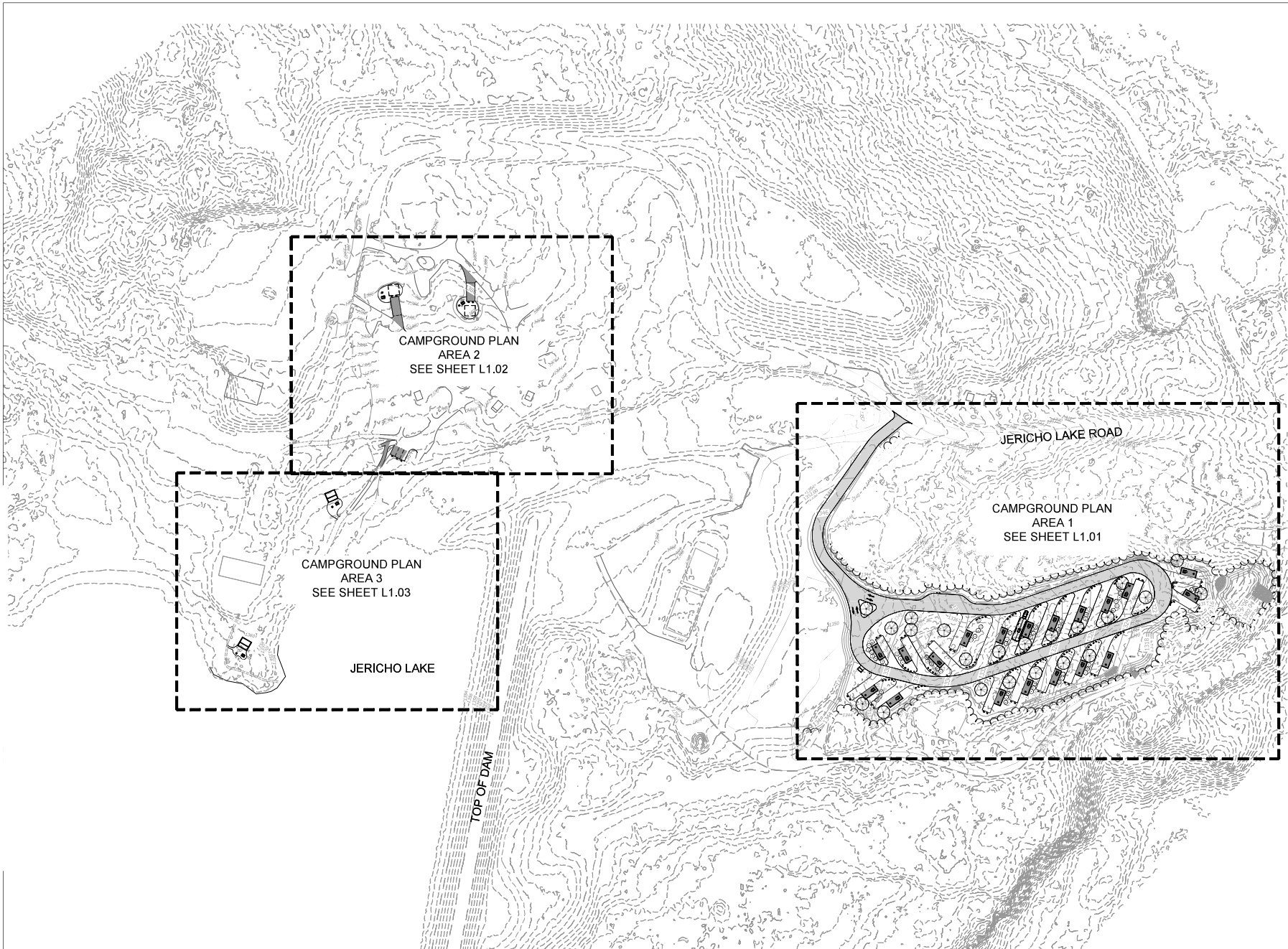
Title:
SEPTIC PLAN

Sheet Number:
C6.00

Project Number: 23045001
File: 22038-jericho-site 80%_21.dwg

ENVIRO-SEPTIC SYSTEM SLOPED, IN-GROUND BED CAMPGROUND DESIGN (1,200 GPD)
NEW HAMPSHIRE
DEPT 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: EXCEPT >SAC

11/29/2023 3:51:47 PM m:\nh_campgrounds\PROJECTS\PII_2\Sheets\211122_80%_Design_Arch\JerichoLake_003\Site Plan.dwg



SE GROUP
 Landscape Architects and Planners
 1 Mill Street, Suite 190
 Burlington, VT 05401
 tel: 802.862.0098
 fax: 802.865.2440
 www.segroup.com

NH STATE PARKS
 Campground Expansion Project PII
 Jericho Mountain State Park
 298 Jericho Lake Road
 Berlin, NH
 03570

Issue
80% DESIGN



Scale: 1" = 80'
 Date: November 30, 2023
 Drawn By: KS & BD
 Checked By: PC

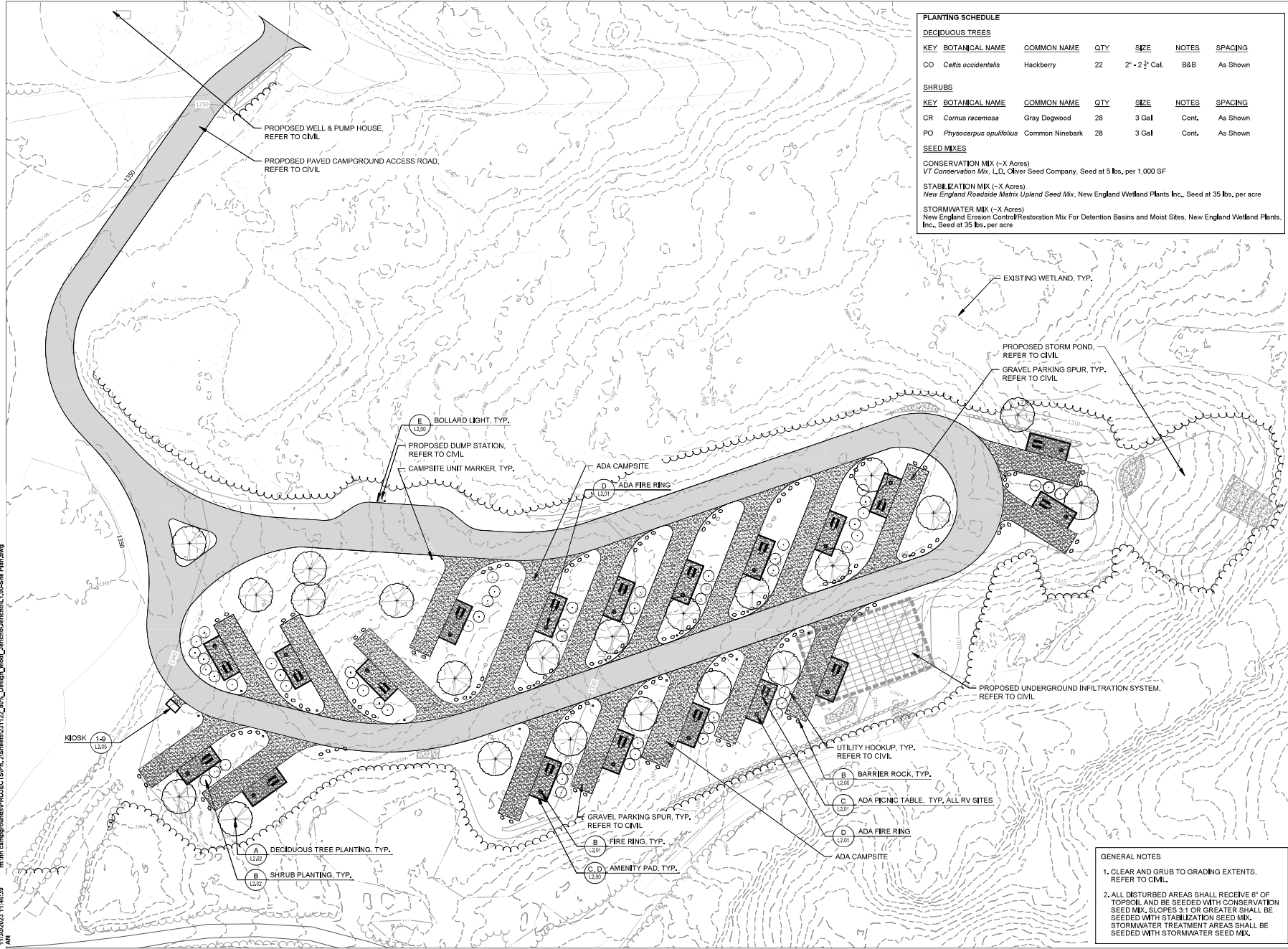
Issues:

No.	Description	Date
1	Name	00/00/00

Title: **OVERALL
 CAMPGROUND
 PLAN**
 Sheet Number:
L1.00

Project Number: 23045001
 File: 11_00-site plan.dwg

11/10/2023 11:46:39 AM \\n\h\campground\PROJECTS\11_23\1122_80\Design_Mail_Jericho\plan\11_01\Site Plan.dwg



PLANTING SCHEDULE

DECIDUOUS TREES

KEY	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES	SPACING
CO	<i>Celtis occidentalis</i>	Hackberry	22	2" - 2 1/2" Cal.	B&B	As Shown

SHRUBS

KEY	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES	SPACING
CR	<i>Cornus racemosa</i>	Gray Dogwood	28	3 Gal	Cont.	As Shown
PO	<i>Physocarpus opulifolius</i>	Common Ninebark	28	3 Gal	Cont.	As Shown

SEED MIXES

CONSERVATION MIX (~X Acres)
 VT Conservation Mix, L.D. Oliver Seed Company, Seed at 5 lbs, per 1,000 SF

STABILIZATION MIX (~X Acres)
 New England Roadside Matrix Upland Seed Mix, New England Wetland Plants Inc., Seed at 35 lbs, per acre

STORMWATER MIX (~X Acres)
 New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites, New England Wetland Plants, Inc., Seed at 35 lbs, per acre

SE GROUP
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 www.segroup.com

NH STATE PARKS
 Campground Expansion Project P11
 Jericho Mountain State Park
 298 Jericho Lake Road
 Berlin, NH
 03570

Issue
80% DESIGN
 Graphic Scale
 0 15' 30' 60'
 North

Scale: 1" = 30'
 Date: November 30, 2023
 Drawn By: KS & BD
 Checked By: PD

Issues:

No.	Description	Date
1	Name	00/00/00

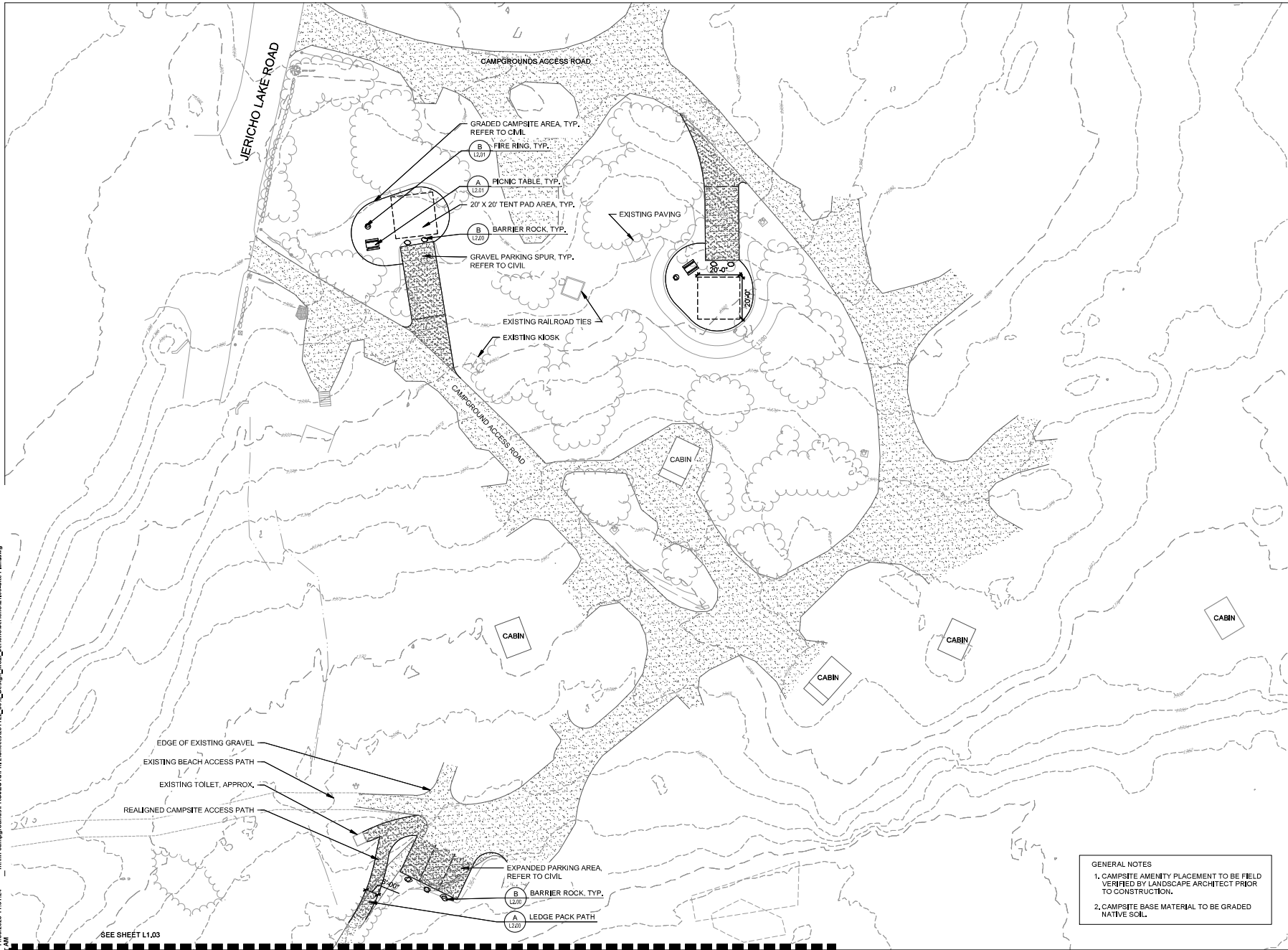
Title
CAMPGROUND PLAN - AREA 1

Sheet Number:
L1.01

Project Number: 23045001
 File: 11_01-site plan.dwg

GENERAL NOTES

1. CLEAR AND GRUB TO GRADING EXTENTS. REFER TO CIVIL.
2. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOPSOIL AND BE SEEDDED WITH CONSERVATION SEED MIX. SLOPES 3:1 OR GREATER SHALL BE SEEDDED WITH STABILIZATION SEED MIX. STORMWATER TREATMENT AREAS SHALL BE SEEDDED WITH STORMWATER SEED MIX.



NH STATE PARKS
 Campground Expansion Project PII
 Jericho Mountain State Park
 298 Jericho Lake Road
 Berlin, NH
 03570

Issue
80% DESIGN



Scale: 1" = 20'
 Date: November 30, 2023
 Drawn By: KS & BD
 Checked By: PD

Issues:

No.	Description	Date
1	Name	00/00/00

Title
**CAMPGROUND
 PLAN - AREA 2**

Sheet Number:
L1.02

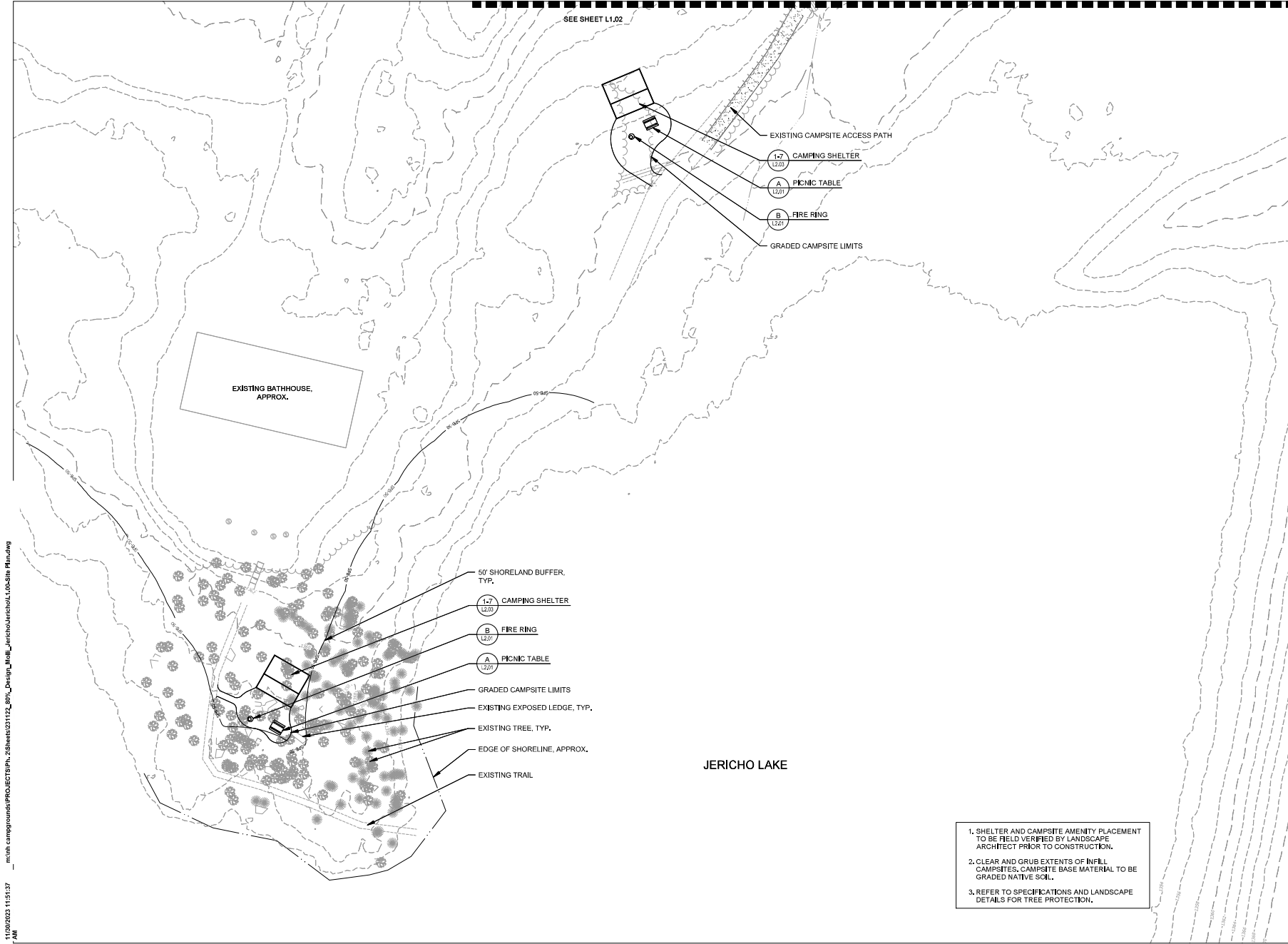
Project Number: 23045001
 File: 11_00-site plan.dwg

GENERAL NOTES
 1. CAMPSITE AMENITY PLACEMENT TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
 2. CAMPSITE BASE MATERIAL TO BE GRADED NATIVE SOIL.

11/30/2023 11:51:24 AM m:\nh\campgrounds\PROJECTS\PII_23\sheet\21112_80%_Design_Arch\Jericho\Area2_Site Plan.dwg

SEE SHEET L1.03

11/01/2023 11:51:37 AM
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SEE SHEET L1.02

EXISTING CAMPSITE ACCESS PATH

1-7 CAMPING SHELTER
 (12.00)

A PICNIC TABLE
 (12.01)

B FIRE RING
 (12.21)

GRADED CAMPSITE LIMITS

EXISTING BATHHOUSE, APPROX.

50' SHORELAND BUFFER, TYP.

1-7 CAMPING SHELTER
 (12.00)

B FIRE RING
 (12.21)

A PICNIC TABLE
 (12.01)

GRADED CAMPSITE LIMITS

EXISTING EXPOSED LEDGE, TYP.

EXISTING TREE, TYP.

EDGE OF SHORELINE, APPROX.

EXISTING TRAIL

JERICHO LAKE

1. SHELTER AND CAMPSITE AMENITY PLACEMENT TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
2. CLEAR AND GRUB EXTENTS OF INFILL CAMPSITES, CAMPSITE BASE MATERIAL TO BE GRADED NATIVE SOIL.
3. REFER TO SPECIFICATIONS AND LANDSCAPE DETAILS FOR TREE PROTECTION.

NH STATE PARKS
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 298 Jericho Lake Road
 Berlin, NH
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Issue
80% DESIGN

Graphic Scale
 0 10' 20' 40'



Scale: 1" = 20'
 Date: November 30, 2023
 Drawn By: KS & BD
 Checked By: PC

Issues:

No.	Description	Date
1	Name	00/00/00

Title
CAMPGROUND PLAN - AREA 3
 Sheet Number:
L1.03

Project Number: 23045001
 File: 11_00-site plan.dwg

NH STATE PARKS

Campground Expansion Project PII
 Jericho Mountain State Park
 298 Jericho Lake Road
 Berlin, NH
 03570

Issue
80% DESIGN
 Graphic Scale

North

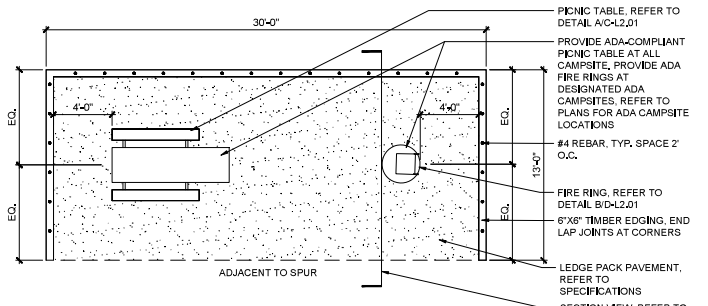
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 Date: November 30, 2023
 Drawn By: KS & BD
 Checked By: PO

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No.	Description	Date
1	Name	00/00/00

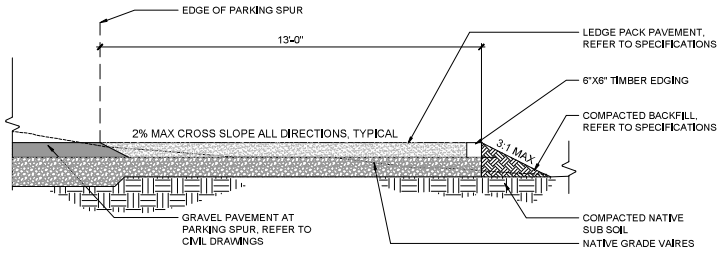
Title
**LANDSCAPE
 DETAILS**
 Sheet Number:
L2.00

Project Number: 23045001
 File: L2.00-details.dwg

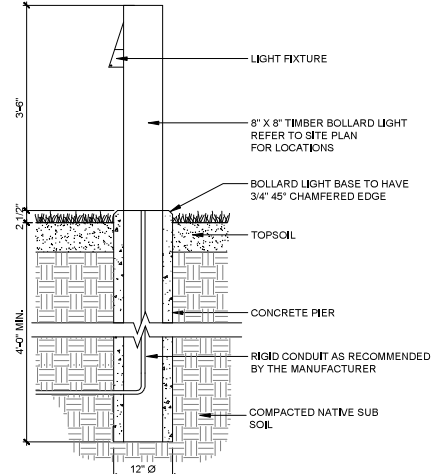


C AMENITY PAD
 SCALE 1/4" = 1'-0"
 d-amenity pad.dwg

NOTE:
 REFER TO CIVIL DRAWINGS FOR GRADING AT ALL PARKING SPURS AND AMENITY PADS.

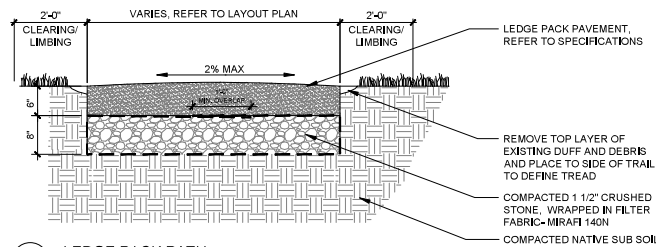


D SECTION: AMENITY PAD
 SCALE 1/2" = 1'-0"
 d-amenity pad-section.dwg

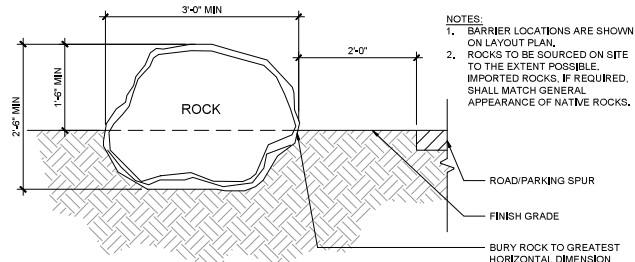


E BOLLARD LIGHT
 SCALE 1" = 1'-0"
 d-light fixture B-bollard light.dwg

- NOTES:
- SUBMIT STONE MATERIAL SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
 - PATH TO BE SET 1'-2" ABOVE SURROUNDING GRADE, CREATE POSITIVE DRAINAGE AWAY FROM PATH.
 - LANDSCAPE ARCHITECT TO REVIEW AND APPROVE LAYOUT OF THE TRAIL PRIOR TO FINAL INSTALLATION.
 - REMOVE BRUSH/UNDERSTORY AND LIMB UP TREES (AT LEAST 8'-0" ABOVE GRADE) WITHIN CLEARING/LIMBING ZONE. CARE SHALL BE TAKEN TO PROTECT ANY SIGNIFICANT SHADE TREES (CALIPER >12"). CONTRACTOR MUST VERIFY WITH LANDSCAPE ARCHITECT IF ANY SIGNIFICANT SHADE TREES ARE PROPOSED TO BE REMOVED PRIOR TO INSTALLATION.

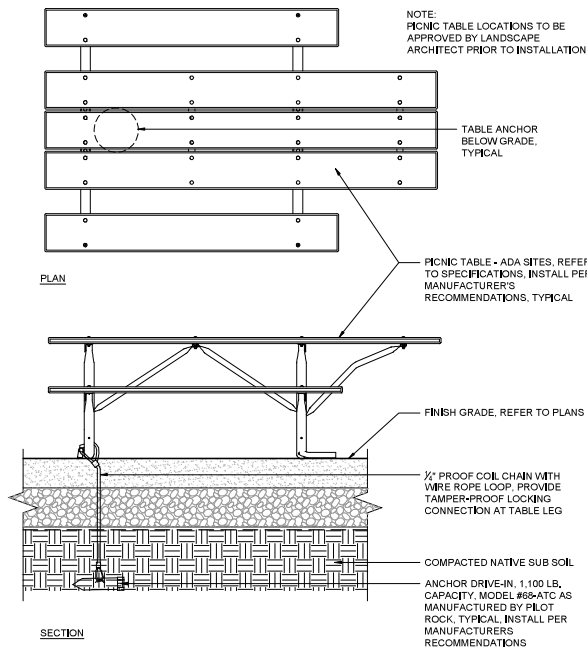


A LEDGE PACK PATH
 SCALE 1" = 1'-0"
 d-gravel path.dwg

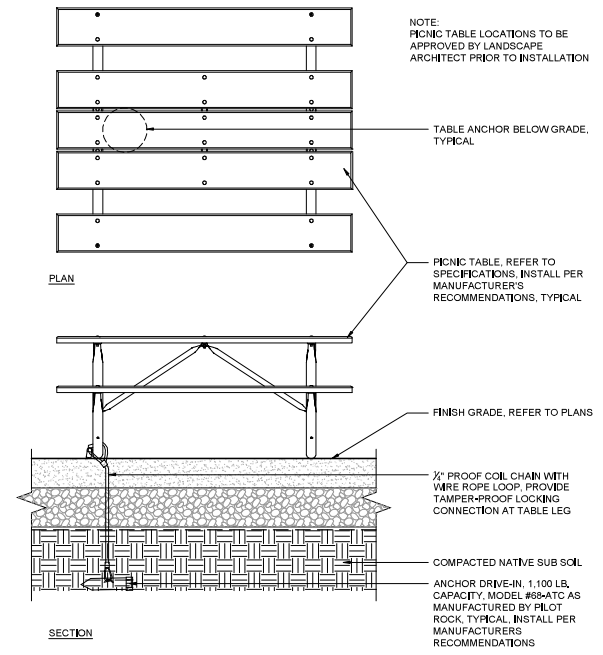


B BARRIER ROCK
 SCALE 1" = 1'-0"
 d-barrier rock.dwg

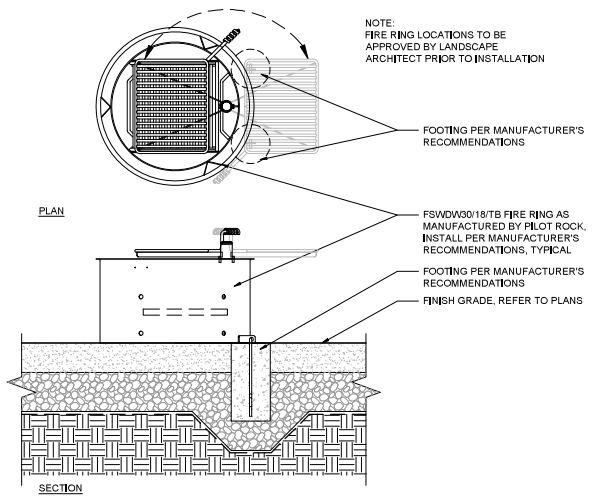
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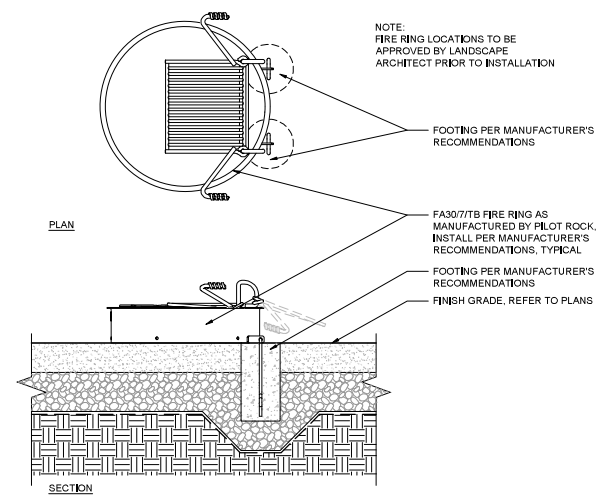
C ADA PICNIC TABLE
SCALE 1" = 1'-0"
d-table-accessible.dwg



A PICNIC TABLE
SCALE 1" = 1'-0"
d-table.dwg



D ADA FIRE RING
SCALE 1" = 1'-0"
d-fire_ring-accessible.dwg



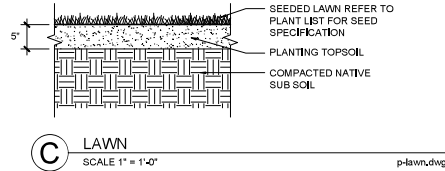
B FIRE RING
SCALE 1" = 1'-0"
d-fire_ring.dwg

Issues:

No.	Description	Date
1	Name	00/00/00

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- NOTES:
1. REFER TO PLANT LIST FOR SPECIFICATION FOR SEEDING.
 2. ALL LAWN AREAS TO BE STAKED AND MAINTAINED BY CONTRACTOR TO PREVENT PEDESTRIAN TRAFFIC. STAKES AND NETTING TO BE REMOVED BY CONTRACTOR PRIOR TO FIRST MOWING.



NOTE: EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GRIDLING.

SURROUNDING SOIL SHOULD NOT EXCEED 80% COMPACTION. DRAINAGE WILL BE REQUIRED IF COMPACTION SOILS ARE PRESENT

NYLON STRAP WITH 3/4" GROMMETS, REFER TO SPECIFICATIONS

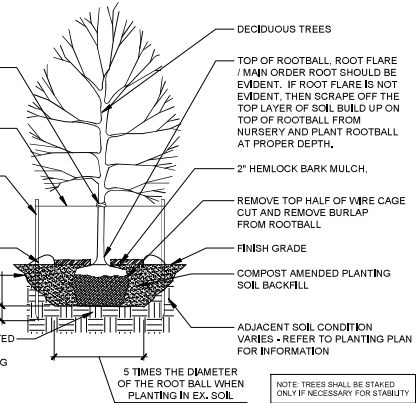
FASTEN WIRE BELOW POINT OF MAJOR BRANCHING OR TO MAJOR OUTSIDE TRUNK.

2 3" HARDWOOD STAKES, ALIGN STAKES PARALLEL W/ ROAD/ WALKS OR PARALLEL W/ DIRECTION OF PREVAILING WIND. REFER TO TREE STAKING DETAIL.

TEMPORARY WATERING BASIN MADE FROM SOIL

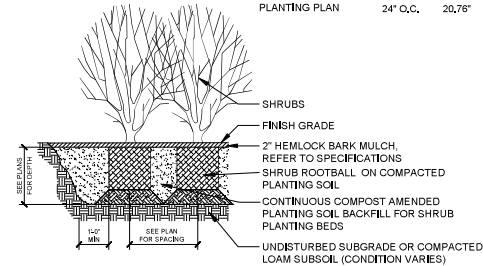
BREAK APART EDGE OF EXCAVATION W/ SHOVEL AND BLEND PLANTING SOIL W/ EXISTING SOIL TO PROVIDE TRANSITION TO UNDISTURBED GRADE

UNDISTURBED SUBGRADE OR COMPACTED LOAM SUBSOIL (CONDITION VARIES) EXCAVATE ONLY TO SPECIFIED PLANTING DEPTH TO ENSURE STABLE BASE



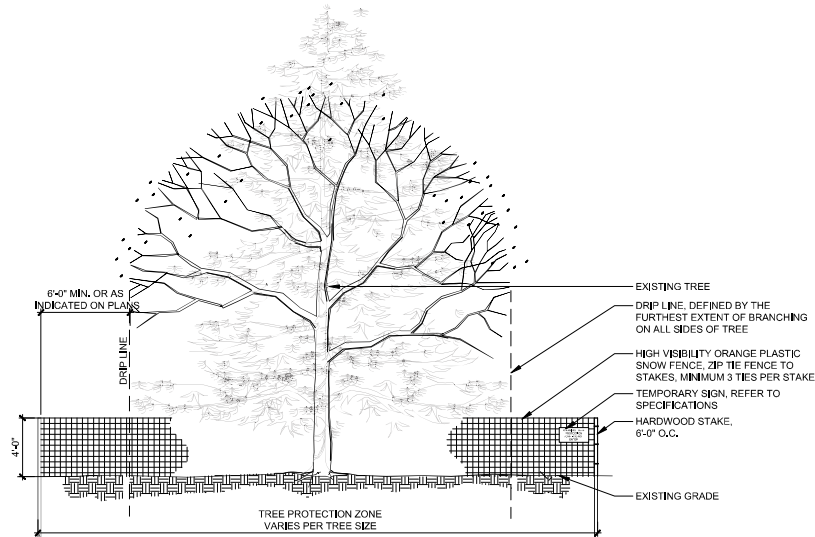
A DECIDUOUS TREE PLANTING
SCALE NTS

PLANT SPACING	SPACING "D"	ROW "A"
PLANT CENTER	5' O.C.	51.96"
PLANT ROW	4' O.C.	41.52"
ALL EQUAL OR AS SHOWN ON PLANTING PLAN	36" O.C.	31.20"
	30" O.C.	26.00"
	24" O.C.	20.76"



- NOTES:
1. SEE PLANTING PLAN FOR SPACING AND QUANTITIES.
 2. PLANTS SHALL BE PLANTED IN CONTINUOUS PLANTING SOIL PER THE DEPTH AS INDICATED IN THE PLANTING PLANS.

B SHRUB PLANTING
SCALE: 1/2" = 1'-0"



- NOTES:
1. REFER TO DRAWINGS AND SPECIFICATIONS FOR TREE PROTECTION PROCEDURES AND REQUIREMENTS.
 2. TREE PROTECTION FOR GROUPING OF MORE THAN ONE TREE MAY OCCUR, REFER TO DRAWINGS.
 3. PRIOR TO STARTING WORK, THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED TO REVIEW TREE PROTECTION FENCING LAYOUT.
 4. IF TREE PROTECTION FENCE CAN NOT EXTEND BEYOND THE DRIP LINE AS DETAILED DUE TO SITE CONDITIONS, CONTRACTOR SHALL MAKE BEST EFFORT TO PROTECT AS MUCH OF THE TREE PROTECTION ZONE AS POSSIBLE. NOTIFY OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT IF FIELD ADJUSTMENTS TO TREE PROTECTION FENCE ARE REQUIRED
 5. TREE PROTECTION FENCE SHALL BE MAINTAINED IN AN UPRIGHT CONDITION THROUGHOUT THE EXECUTION OF THE WORK, WHETHER TEMPORARY, DEMOLITION OR NEW CONSTRUCTION.
 6. WITHIN THE TREE PROTECTION ZONE PROHIBITED USES INCLUDE BUT ARE NOT LIMITED TO: EQUIPMENT AND VEHICLES PARKING, LAYDOWN AND STORAGE OF MATERIALS, AND CONSTRUCTION RELATED ACTIVITIES. REFER TO TREE PROTECTION SPECIFICATIONS
 7. REMOVAL OF EXISTING UNDERGROUND UTILITIES WITHIN THE TREE PROTECTION ZONE IS PROHIBITED.
 8. IF DAMAGE TO TREE(S) DOES OCCUR, OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
 9. PROVIDE 4'-0" FENCE OPENING FOR LAWN MOWING OPERATION

D TREE PROTECTION
SCALE 1/4" = 1'-0"

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NH STATE PARKS

Campground Expansion Project PH
Jericho Mountain State Park
298 Jericho Lake Road
Berlin, NH
03570

Issue

80% DESIGN

Graphic Scale

North

Scale: AS NOTED

Date: November 30, 2023

Drawn By: KS & BD

Checked By: PC

Issues:

No.	Description	Date
1	Name	00/00/00

Title

**PLANTING
DETAILS**

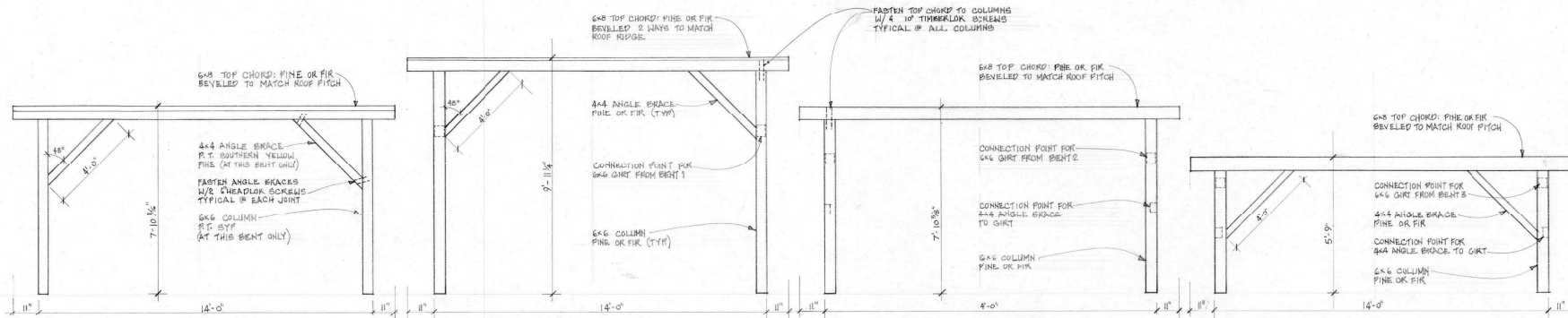
Sheet Number:

L2.02

Project Number: 23045001

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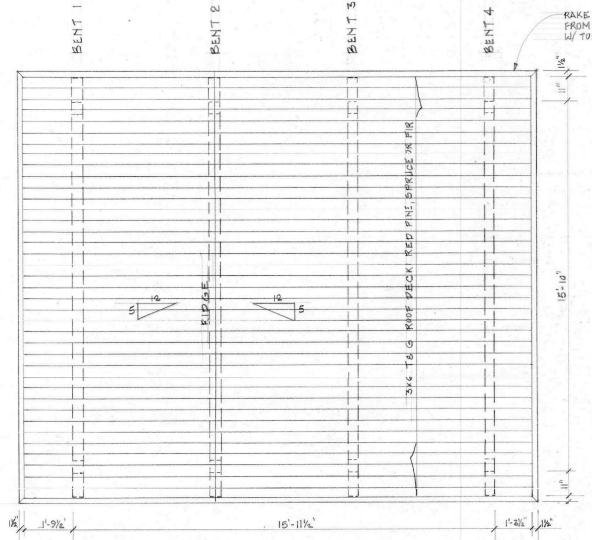


1 BENT 1
A1 SCALE: 1/8" = 1'-0"

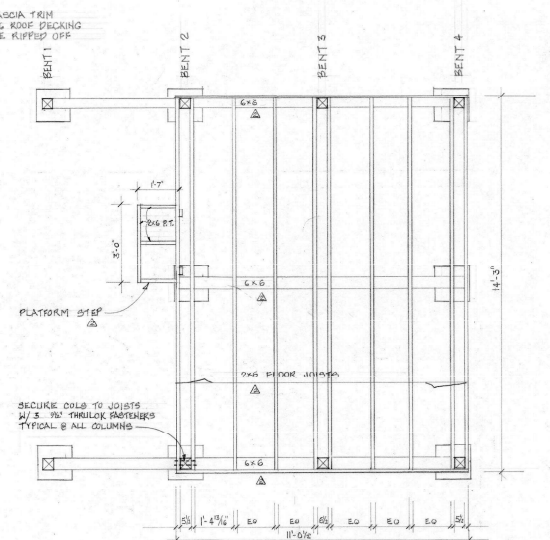
2 BENT 2
A1 SCALE: 1/8" = 1'-0"

3 BENT 3
A1 SCALE: 1/8" = 1'-0"

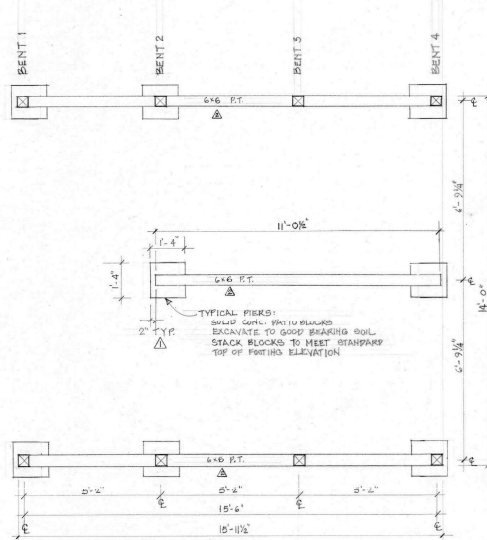
4 BENT 4
A1 SCALE: 1/8" = 1'-0"



5 ROOF DECK PLAN
A1 SCALE: 1/8" = 1'-0"



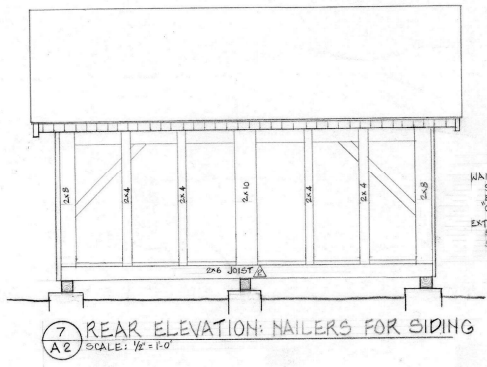
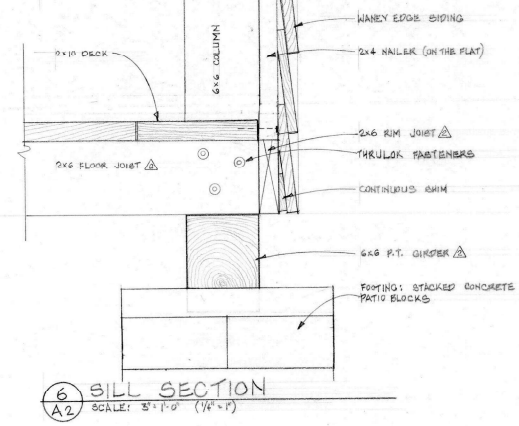
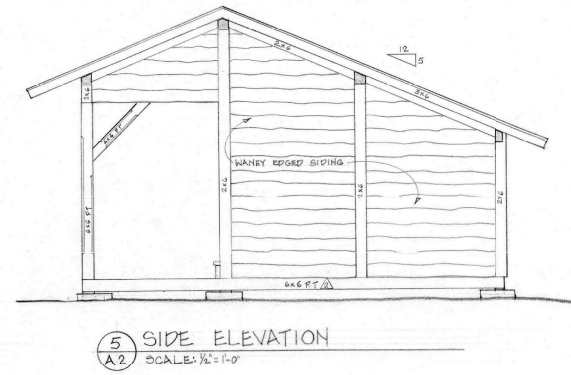
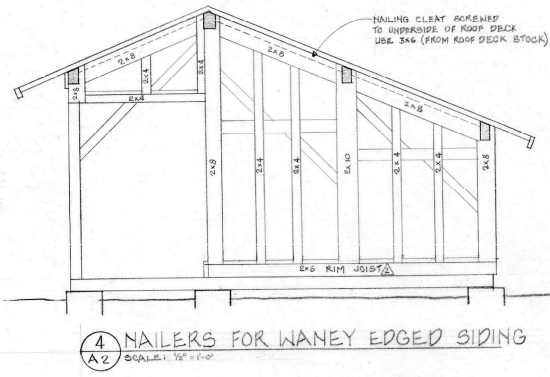
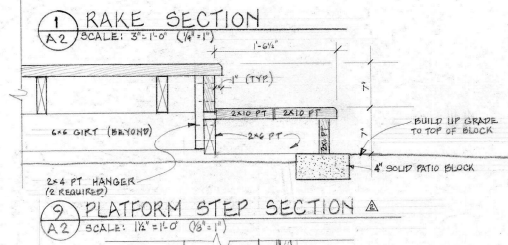
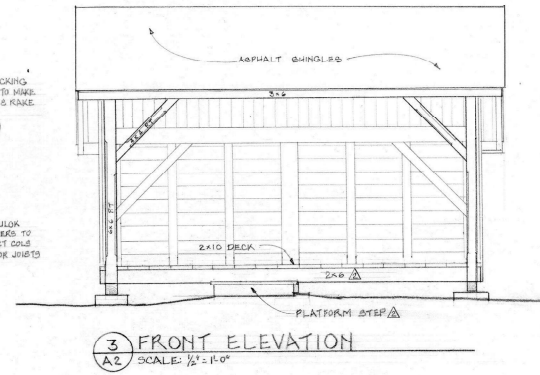
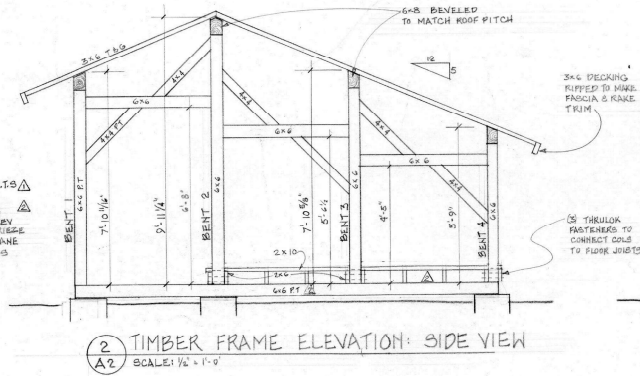
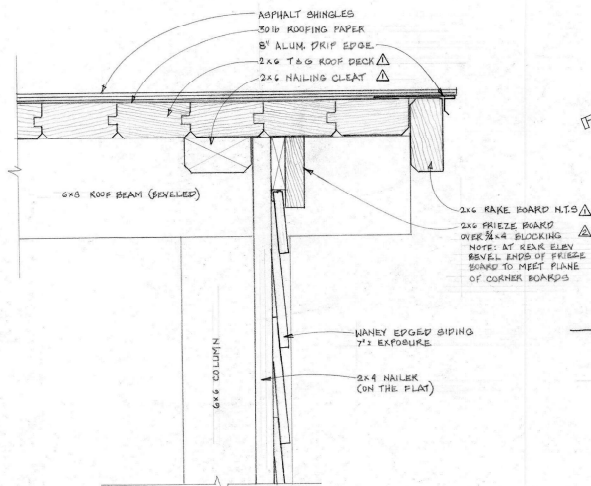
6 FLOOR FRAMING PLAN
A1 SCALE: 1/8" = 1'-0"



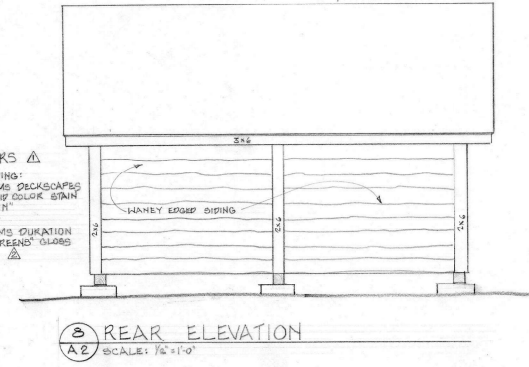
7 FOUNDATION PLAN
A1 SCALE: 1/8" = 1'-0"

Issues:

No.	Description	Date
1	Name	00/00/00



PAINT COLORS
 WANNEY EDGED SIDING:
 SHERWIN WILLIAMS DECKSCAPE
 EXT. ACRYLIC BOND COLOR STAIN
 "CORKBARK BROWN"
 EXT. TRIM:
 SHERWIN WILLIAMS DURATEX
 SW 6447 "EVERGREENS" GREEN



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NH STATE PARKS
 Campground Expansion Project PH
 Jericho Mountain State Park
 298 Jericho Lake Road
 Berlin, NH
 03570

Issue
80% DESIGN
 Graphic Scale

North
 Scale: AS NOTED
 Date: November 30, 2023

Drawn By: KS & BD
 Checked By: PO

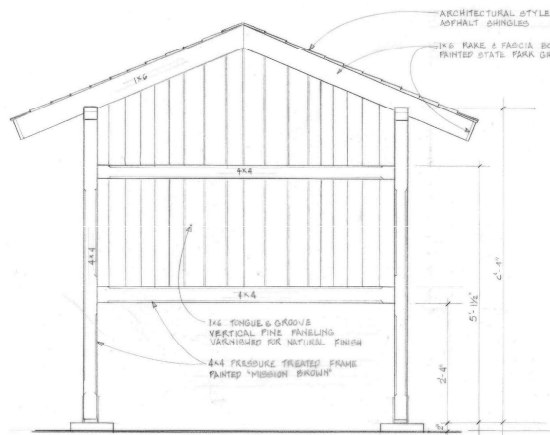
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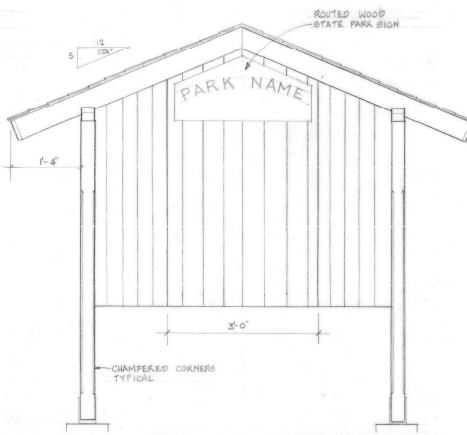
Title
**SHELTER
 DETAILS**
 Sheet Number:
L2.04

Project Number: 23045001
 File: 12.00-details.dwg

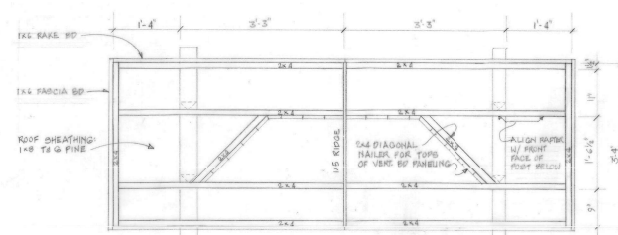
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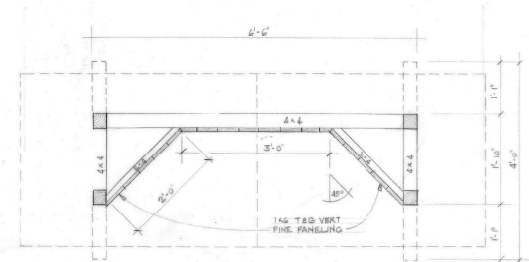
1 REAR ELEVATION
SCALE: 1/4"=1'-0"



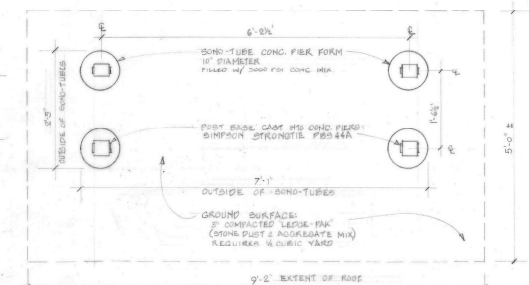
2 FRONT ELEVATION
SCALE: 1/4"=1'-0"



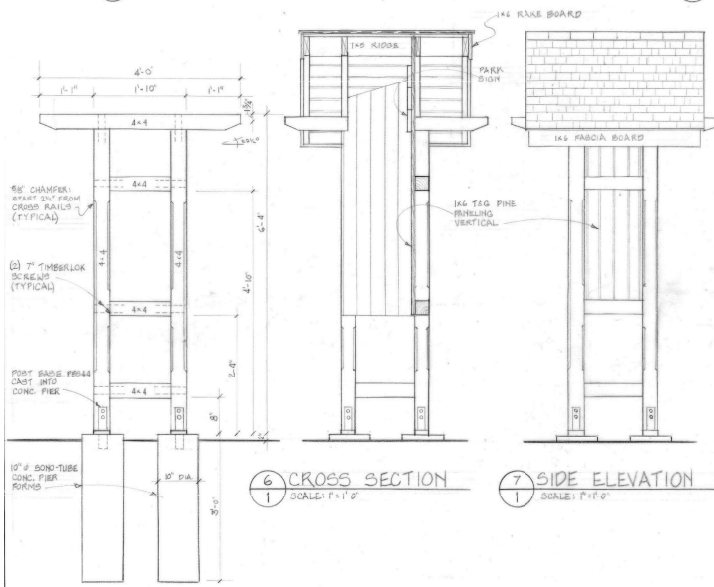
3 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



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

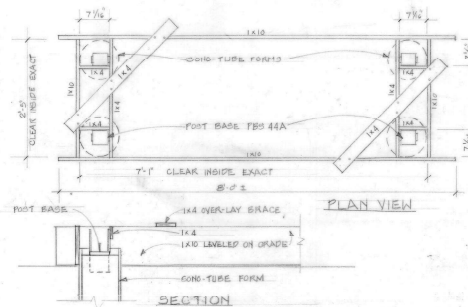


5 FOUNDATION PLAN
SCALE: 1/4"=1'-0"



6 CROSS SECTION
SCALE: 1/4"=1'-0"

7 SIDE ELEVATION
SCALE: 1/4"=1'-0"

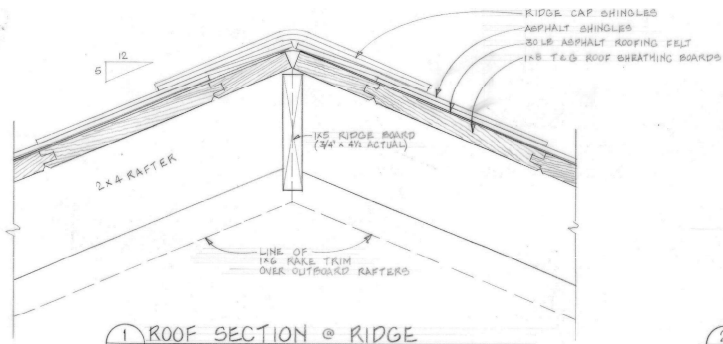


8 TEMPORARY JIG TO ALIGN PIER FORMS
SCALE: 1/4"=1'-0"

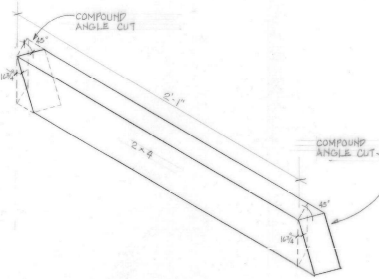
5 SIDE SUPPORT FRAME
SCALE: 1/4"=1'-0"

Issues:

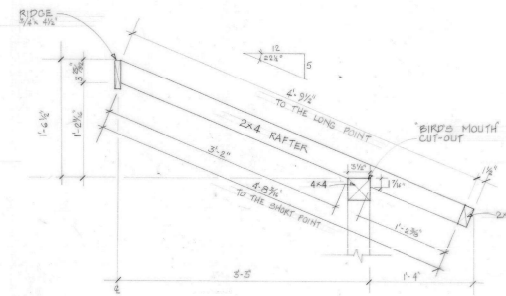
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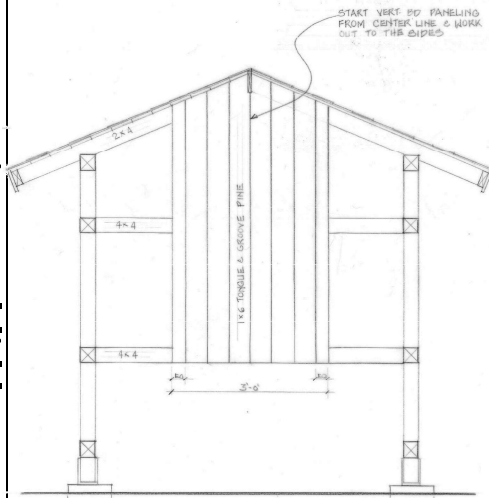
1 ROOF SECTION @ RIDGE
 2 HALF SIZE



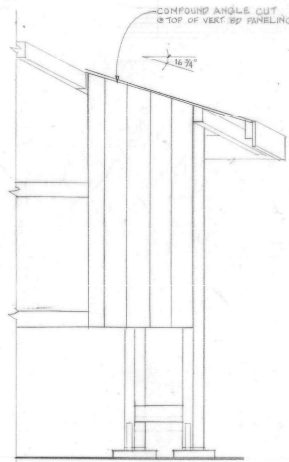
DIAGONAL NAILER BETWEEN RAFTERS
 2 ISOMETRIC VIEW
 2 SCALE: 1/4" = 1'



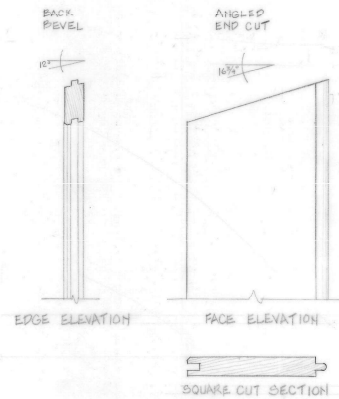
3 TYPICAL RAFTER
 2 AS REQUIRED
 2 SCALE: 1/8" = 1'



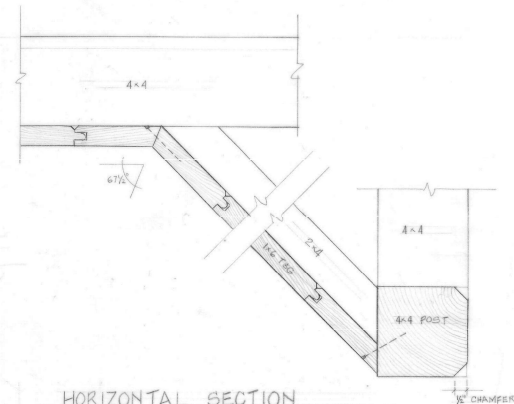
4 ELEVATION: NOTICE BOARD CENTER PANEL
 2 SCALE: 1" = 1'-0"



5 SIDE PANEL ELEVATION
 2 SCALE: 1" = 1'-0"



6 COMPOUND ANGLE TOP CUT @
 LEFT SIDE PANEL VERT. BD FACING
 2 HALF SIZE



7 HORIZONTAL SECTION
 RIGHT SIDE PANEL
 2 HALF SIZE

NH STATE PARKS
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 298 Jericho Lake Road
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 03570

Issue
80% DESIGN

Graphic Scale

North

Scale: AS NOTED

Date: November 30, 2023

Drawn By: KS & BD

Checked By: PO

Issues:

No.	Description	Date
1	Name	00/00/00

Title
**KIOSK
 DETAILS**

Sheet Number:
L2.06

Project Number: 23045001
 File: 12.06-details.dwg

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 AND 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	CALV. 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 SCOTCH-LOCK FOR #6 AND SMALLER AND T & R "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 MAKE (MOUNTING Ø 1 1/2").
 - SWITCHES SHALL BE STANDARD GRADE RATED 20 AMP AT 120 VOLT (MOUNTING Ø#9"x1.1").
 - 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, GUILD, ITE OR EQUAL.
- BOXES:**
 - OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL PRODUCT.
 - 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 INSULATION 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 REMAIN 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.
- WARRANTY:**
 - 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 THE 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
DPI	GROUND FAULT CIRCUIT INTERRUPTER
DND	GROUND
HP	HORSEPOWER
LP	LIGHTING PANEL
MCC	MOTOR CONTROL CENTER
MP	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
UP	RECEPTACLE PANEL
US	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF









WIRING

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




SWITCHES

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

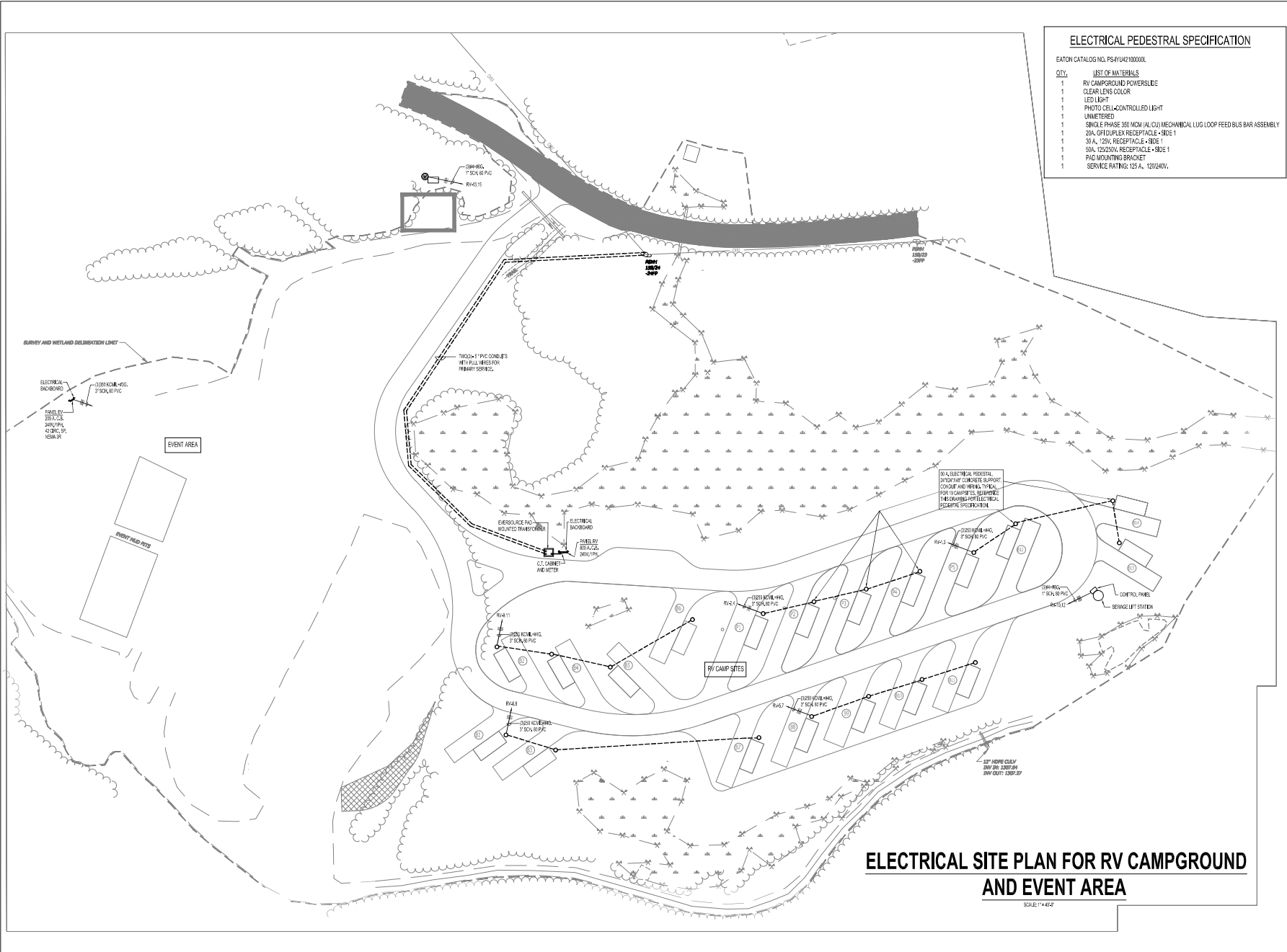
RECEPTACLES

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

PANELS AND MISC.

	LIGHT OR POWER PANEL
	FUSED SAFETY (DISCONNECT) SWITCH
	NON-FUSED SAFETY (DISCONNECT) SWITCH
	JUNCTION BOX
	MOTOR
	TELEPHONE OUTLET - WALL - MOUNTED 18" AFF UNW; 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 UNW; PROVIDE 4x4 OUTLET BOX IN WALL WITH 3/4" CONDUIT TO ABOVE CEILING WITH PULL WIRE. WIRING BY OTHERS.

CIRCUIT BREAKER PANEL NO. "RV"											
VOLTS: 120/240		WIRE: 3	KA RMS: 45/100	NEUTRAL BAR: YES	BRANCH BR: BOLT-ON	NEMA TYPE: 3R	MFR: SQUARE D, GE, SIEMENS OR EQUAL				
PHASE: 1		AMP: 800	MAIN CB AMP: 800	GROUND BAR: YES	KEY LOCK: YES	MOUNTING SURFACE					
VOLTS (V-A)	CONDUCTOR	POLES	C.B.	CK'T#	C.B.	POLES	CONDUCTOR	CIRCUIT DESCRIPTION	VOLTS (V-A)		
12000	RV SITES - 20, 812, 813, 814	2	100	1	1	2	2	DISCONNECT-WHS.	RV SITES - 20, 812, 813, 814	12000	12000
12000	RV SITES - 80, 80, 810, 811	2	100	5	2	2	2	DISCONNECT-WHS.	RV SITES - 81, 80, 81	12000	12000
12000	RV SITES - 80, 80, 810, 811	2	100	9	10	2	2	DISCONNECT-WHS.	RV SITES - 81, 80, 81	12000	12000
12000	RV SITES - 80, 80, 810, 811	2	100	7	8						
12000	RV SITES - 80, 80, 810, 811	2	100	11	12						
12000	RV SITES - 80, 80, 810, 811	2	100	13	14						
12000	RV SITES - 80, 80, 810, 811	2	100	15	16						
12000	RV SITES - 80, 80, 810, 811	2	100	17	18						
12000	RV SITES - 80, 80, 810, 811	2	100	19	20						
12000	RV SITES - 80, 80, 810, 811	2	100	21	22						
12000	RV SITES - 80, 80, 810, 811	2	100	23	24						
12000	RV SITES - 80, 80, 810, 811	2	100	25	26						
12000	RV SITES - 80, 80, 810, 811	2	100	27	28						
12000	RV SITES - 80, 80, 810, 811	2	100	29	30						
12000	RV SITES - 80, 80, 810, 811	2	100	31	32						
12000	RV SITES - 80, 80, 810, 811	2	100	33	34						
12000	RV SITES - 80, 80, 810, 811	2	100	35	36						
12000	RV SITES - 80, 80, 810, 811	2	100	37	38						
12000	RV SITES - 80, 80, 810, 811	2	100	39	40						
12000	RV SITES - 80, 80, 810, 811	2	100	41	42						
12000	RV SITES - 80, 80, 810, 811	2	100	43	44						
12000	RV SITES - 80, 80, 810, 811	2	100	45	46						
12000	RV SITES - 80, 80, 810, 811	2	100	47	48						
12000	RV SITES - 80, 80, 810, 811	2	100	49	50						
12000	RV SITES - 80, 80, 810, 811	2	100	51	52						
12000	RV SITES - 80, 80, 810, 811	2	100	53	54						
12000	RV SITES - 80, 80, 810, 811	2	100	55	56						
12000	RV SITES - 80, 80, 810, 811	2	100	57	58						
12000	RV SITES - 80, 80, 810, 811	2	100	59	60						
12000	RV SITES - 80, 80, 810, 811	2	100	61	62						
12000	RV SITES - 80, 80, 810, 811	2	100	63	64						
12000	RV SITES - 80, 80, 810, 811	2	100	65	66						
12000	RV SITES - 80, 80, 810, 811	2	100	67	68						
12000	RV SITES - 80, 80, 810, 811	2	100	69	70						
12000	RV SITES - 80, 80, 810, 811	2	100	71	72						
12000	RV SITES - 80, 80, 810, 811	2	100	73	74						
12000	RV SITES - 80, 80, 810, 811	2	100	75	76						
12000	RV SITES - 80, 80, 810, 811	2	100	77	78						
12000	RV SITES - 80, 80, 810, 811	2	100	79	80						
12000	RV SITES - 80, 80, 810, 811	2	100	81	82						
12000	RV SITES - 80, 80, 810, 811	2	100	83	84						
12000	RV SITES - 80, 80, 810, 811	2	100	85	86						
12000	RV SITES - 80, 80, 810, 811	2	100	87	88						
12000	RV SITES - 80, 80, 810, 811	2	100	89	90						
12000	RV SITES - 80, 80, 810, 811	2	100	91	92						
12000	RV SITES - 80, 80, 810, 811	2	100	93	94						
12000	RV SITES - 80, 80, 810, 811	2	100	95	96						
12000	RV SITES - 80, 80, 810, 811	2	100	97	98						
12000	RV SITES - 80, 80, 810, 811	2	100	99	100						
12000	RV SITES - 80, 80, 810, 811	2	100	101	102						
12000	RV SITES - 80, 80, 810, 811	2	100	103	104						
12000	RV SITES - 80, 80, 810, 811	2	100	105	106						
12000	RV SITES - 80, 80, 810, 811	2	100	107	108						
12000	RV SITES - 80, 80, 810, 811	2	100	109	110						
12000	RV SITES - 80, 80, 810, 811	2	100	111	112						
12000	RV SITES - 80, 80, 810, 811	2	100	113	114						
12000	RV SITES - 80, 80, 810, 811	2	100	115	116						
12000	RV SITES - 80, 80, 810, 811	2	100	117	118						
12000	RV SITES - 80, 80, 810, 811	2	100	119	120						
12000	RV SITES - 80, 80, 810, 811	2	100	121	122						
12000	RV SITES - 80, 80, 810, 811	2	100	123	124						
12000	RV SITES - 80, 80, 810, 811	2	100	125	126						
12000	RV SITES - 80, 80, 810, 811	2	100	127	128						
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12000	RV SITES - 80, 80, 810, 811	2	100	131	132						
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12000	RV SITES - 80, 80, 810, 811	2	100	135	136						
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12000	RV SITES - 80, 80, 810, 811	2	100	143	144						
12000	RV SITES - 80, 80, 810, 811	2	100	145	146						
12000	RV SITES - 80, 80, 810, 811	2	100	147	148		</				



ELECTRICAL PEDESTAL SPECIFICATION

EATON CATALOG NO. PS4YU42100000

QTY.	LIST OF MATERIALS
1	RV CAMPGROUND POWERSLIDE
1	CLEAR LENS COLOR
1	LED LIGHT
1	PHOTO CELL-CONTROLLED LIGHT
1	UNMETERED
1	SINGLE PHASE 300 MCM (AL CU) MECHANICAL LUG LOOP FEED BUS BAR ASSEMBLY
1	50A, 60T DOUBLE RECEPTACLE-SIDE 1
1	50A, 125V, RECEPTACLE-SIDE 1
1	50A, 125/200V, RECEPTACLE-SIDE 1
1	PAD MOUNTING BRACKET
1	SERVICE RATING: 125A, 120/240V.

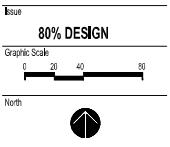
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NH STATE PARKS
 Campground Expansion Project #11
 Jericho Mountain State Park
 288 Jericho Lake Road
 Berlin, NH
 03570



Scale: 1" = 40'

Date: NOV. 22, 2023

Drawn By: CPB

Checked By: CPB

Issues:

No.	Description	Date
1	Name	00/00/00

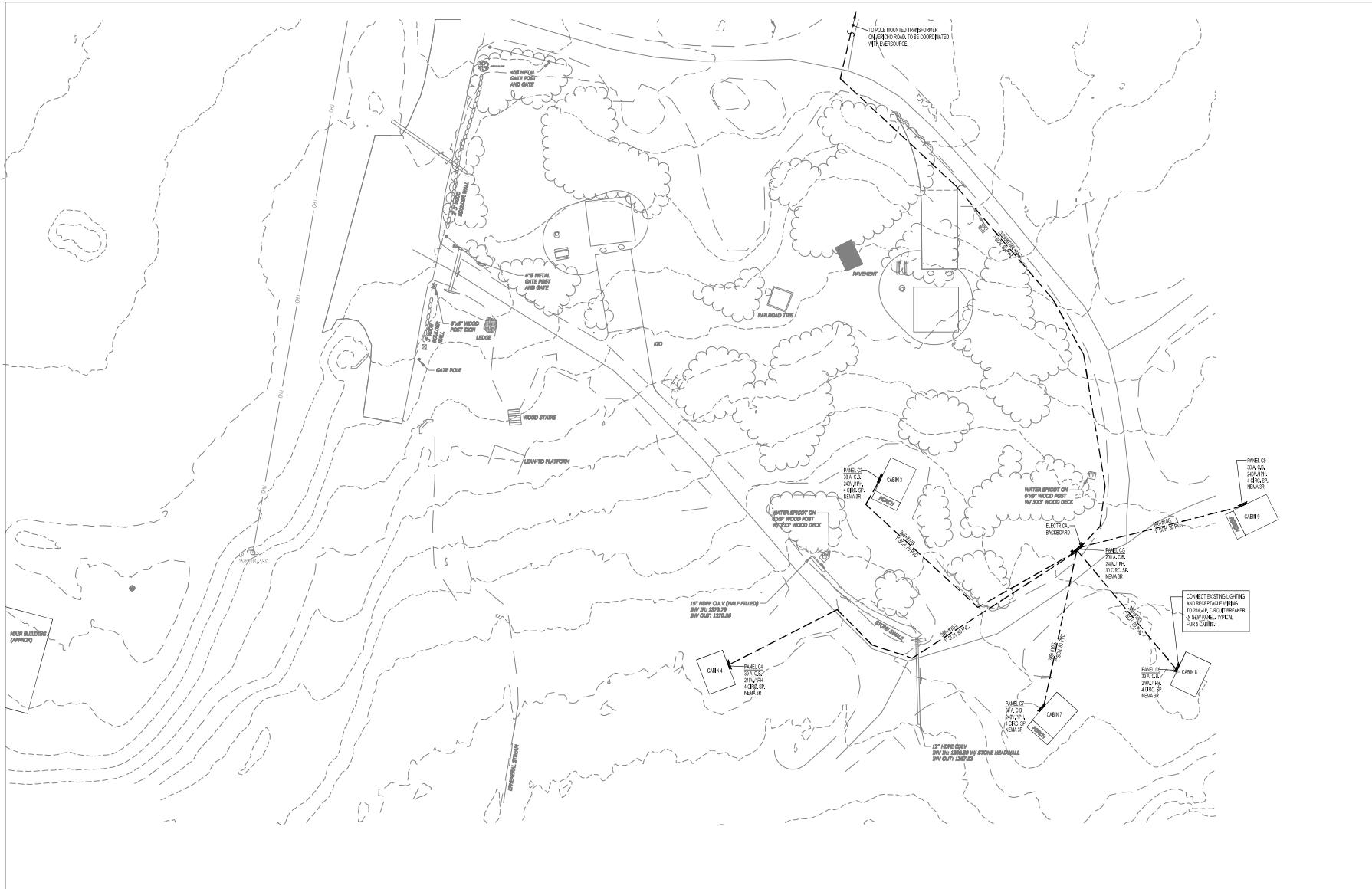
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ELECTRICAL SITE PLAN - RV & EVENT AREAS

Sheet Number:
E1.02J

Project Number: 23045001
 File: 22033JerichoLake 816_02.dwg

ELECTRICAL SITE PLAN FOR RV CAMPGROUND AND EVENT AREA

SCALE: 1"=40'



ELECTRICAL SITE PLAN FOR CAMPGROUND

SCALE: 1" = 40'

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NH STATE PARKS
 Campground Expansion Project #18
 Jericho Mountain State Park
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 Berlin, NH
 03570

Issue

80% DESIGN

Graphic Scale: 0 20 40 80

North

Scale: 1" = 40'
 Date: NOV, 22, 2023
 Drawn By: CPB
 Checked By: CPB

Issues:

No.	Description	Date
1	Name	03/00/00

Title: **ELECTRICAL SITE PLAN FOR CAMPGROUND**

Sheet Number: **E1.03J**

Project Number: 23045001
 File: 230834jericho-state 60a_02.dwg