

April 9, 2024

Charlemont Planning Board
P.O. Box 465
Charlemont, MA 01339

RE: Supplemental Package #1
Hinata Resort
133 Warfield Road,
Charlemont Massachusetts

Dear Mr. Board Members;

On behalf of the Applicant, The Nielsen Team, SK Design Group offers the following supplemental information package in support of our Special Permit Application. Included herein please find:

1. Written responses to Planning Board comments (Attachment #1);
2. Updated architectural plans (Attachment #2);
3. Updated sewer estimate; (Attachment #3)
4. Updated Site Plan from the Notice of Intent application. (Attachment #4)

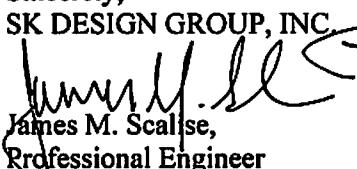
The following responses are offered to facilitate collaboration and resolution of planning comments. The comments are copies below with responses in bold type (see Attachment #1).

Updated architectural plans from Shelter Design illustrate refined cabin concepts to further the process of blending the site attributes with a code compliance energy efficient cabin style (see Attachment #2).

The Sewer Commission is expected to review our sewer flows and project details. We anticipate discussion on the sewer flow estimates. We offer an alternative sewer estimate. Key talking points include overall estimate volume, location of the development with respect to the service area (split lots) and occupancy rates, resort uses and amenities counting twice.

Site Plans have been matured to consider the Wetlands Protection Act more carefully. A design process has instituted an avoid, minimize, and mitigate protocol to meet regulatory performance standards. The resulting plan includes refinements and attributes making the project compliant and more environmentally sensitive.

Please accept this additional information and include it in your deliberations. I look forward to discussing these items at your April 9th meeting.

Sincerely,
SK DESIGN GROUP, INC.

James M. Scallise,
Professional Engineer

Attachments

Cc: The Nielsen Team
Berkshire East
File

G:\SK DESIGN GROUP\2023\230178 Nielsen Team-Warfield Retreat, Charlemont\Documents\Word\Special Permit applic\Supplemental Package #1.docx

Hinata Mountainside Resort Special Permit Report to the Charlemont Planning Board, 4/4/2024

Responses in Bold Arial text

This report summarizes my observations leading up to the public hearing on April 9, 2024. It is based upon attending a portion of a Planning Board meeting, reading the application materials, conducting several site visits, review of public comments to date, and a review of the property's permitting history.

Community-wide Issues (that may have impacts beyond the site and its immediate surrounds)

1. Intersection of Warfield Road and Route 2: The application identifies this intersection as "tricky," but only elaborates concerning anticipated pedestrian activity. No mention is made of vehicular safety at the intersection. While Level of Service on Warfield Road should not be problematic, the intersection with Route 2 is far less than ideal. This is especially hazardous for outbound Warfield Road traffic making right turns onto Route 2 (the way to Berkshire East Ski Area). It may not be feasible for larger vehicles to stay in the correct lanes while executing this turn. Easterly left-hand turns onto Route 2 are less problematic, but still not ideal given the sharp angle of the intersection (right-side blind spot issues).

For example, I intentionally negotiated a right turn onto Route 2 from Warfield Road. I kept my small Prius in the righthand lane going down, made the turn while barely avoiding the eastbound lane of Route 2, but not without hitting and damaging my rear bumper on the steep pavement of Warfield Road at the intersection. Longer vehicles couldn't have done this. The tendency of drivers would be to swing wide into the center or left side of Warfield Road in order to stay in the westbound lane on Route 2 without hitting their rear bumper as I did. This maneuver will in turn obstruct westbound Route 2 traffic attempting to turn right onto Warfield Road. I've noted some discussion of prohibiting righthand turns onto Route 2.

The intersection has been reviewed by Mass Dot as part of the recent improvements to Main Street/Route 2. This review indicated the access was acceptable for the current traffic generation levels. The proposed change of use is expected to generate less traffic than the existing permitted uses. Thus, the intersection will operate at similar levels of service as was factored into this Mass DOT opinion.

While the intersection geometry is poor it is under the jurisdiction of the Massachusetts Department of Transportation. Any increase in traffic should incorporate design alternatives and possibly mitigation.

2. Sewer Capacity: Regardless of the percentage allocation utilized for the property, there has been raised the issue of townwide sewer plant capacity [see memo from Randy Crockier, Regional Health Agent, dated 3/22/2024]. This should be investigated further with the Conway Sewer Commission, CPHS/FRCOG, and the Conway Board of Health.

The connection to the municipal sewer is governed by the Charlemont Sewer Commission.

3. Trail Network: The project overlies portions of existing trail networks that appear open to the public. Will these trail alignments be relocated or adjusted to maintain any Chapter 61 public access requirements, or other requirements or agreements?

To our knowledge the property is in chapter 61A and has no obligation for public access. The proposal does not include or expand public use of the property.

4. BioMap: Is any portion of the project area within state designated BioMap areas? The site appears to be BioMap Critical Natural Landscape.

"BioMap areas are intended for conservation planning purposes only and should not be used for regulatory purposes. The NHESP layers designed for regulatory use are produced in the Natural Heritage Atlas and include Priority Habitat and Estimated Habitat." according to the Mass. Division of Fisheries and wildlife website.

The proposed project is NOT within any NHESP regulated areas.

Property-Specific Issues (that are largely confined to the site itself)

1. Road Width: The plan shows a uniform travelled lane width of 20 feet. This may be out of scale with a forested "glamping" setting. Maintaining that uniform width throughout, coupled with the intermittent parallel parking, may cause excessive excavation and tree removal (for this type of nature-based use). The board may wish to consider approving the plans with a range of roadway widths from 14-20 feet as conditions dictate (likely similar dimensions to many of Charlemont's unpaved roads today). The parallel parking areas can, if unoccupied, serve as turnouts for passing vehicles.

I agree with this comment but was restricted from a narrower road while trying to comply with the minimum fire road access width per NFPA and AASHTO which recommend a width of 20 feet minimum. I agree that a narrow road has benefits including traffic calming among others. However, AASHTO recommends a width of 20 feet for a gravel road with the estimated traffic for this project. (90 ADTs). (Should this be made a

SK Design Group, Inc response to comments received.
Submitted at Planning Board meeting on April 9, 2024

condition of approval I suggest it be contingent upon fire department approval)

TABLE 3 ROADWAY WIDTHS FOR TWO-LANE GRAVEL ROADS

| design speed km/h | Roadway Width | | | | | | | | | |
|----------------------|-----------------------------------|----------------------|--------|-------------------|--|--|--|--|----------------------------------|-------------------------------------|
| | Average of Canadian road agencies | | AASHTO | NCHRP Report 214 | | | Recommended roadway widths | | | |
| | ADT less than 100 | ADT greater than 100 | | ADT less than 250 | ADT less than 400 ADTT less than 14 | ADT greater than 400 ADTT greater than 14 | ADT less than 100 ADTT less than 15 | ADT greater than 100 ADTT greater than 15 | ADT 100-200 ADTT less than 15 | ADT 100-200 ADTT greater than 15 |
| km/h | m | m | m | m | m | m | m | m | m | m |
| 100 | 8.4 | 9.0 | 7.3 | - | - | 7.4 | 7.8 | 7.4 | 7.8 | 7.8 |
| 90 | 8.5 | 8.6 | 7.3 | - | - | 7.0 | 7.4 | 7.4 | 7.8 | 7.8 |
| 80 | 7.8 | 8.0 | 7.3 | 9.1 | 9.1 | 7.0 | 7.4 | 7.0 | 7.4 | 7.4 |
| 70 | 7.2 | 7.4 | 7.3 | 7.9 | 7.9 | 6.6 | 7.0 | 7.0 | 7.4 | 7.4 |
| 60 | 7.4 | 7.6 | - | 6.7 | 7.3 | 6.6 | 7.0 | 6.6 | 7.0 | 7.0 |
| 50 | 7.2 | 7.4 | 6.7 | 6.1 | 6.7 | 6.0 | 6.4 | 6.2 | 6.6 | 6.6 |
| 40 | 7.7 | 8.0 | 6.7 | 6.1 | 6.7 | 6.0 | 6.4 | 6.2 | 6.6 | 6.6 |
| 30 | 6.8 | 7.1 | 6.7 | 5.5 | 6.1 | 5.6 | 6.0 | 6.0 | 6.4 | 6.4 |

Note: Roadway width of gravel roads is the distance between the intersections of the side slopes and the roadway surface.

2. Alignment of Roadway from Flag 591-600: This segment of roadway is proposed on steeper lateral grades, necessitating deep cuts and fills to construct across the hillside. The extensive earthwork required on these existing slopes will significantly change the profile of the hillside and could lead to erosion and sedimentation, possibly getting into the two drainageways to Rice Brook (900+ feet downgradient). Repositioning this road segment upgradient could reduce the required earthwork and improve access to the cabins along this section. The board could request at-scale cross-sections at about roadway station 950 showing the finished cuts, fills, roadway, pathway, and cabin at this location.

The roadway alignment was chosen to avoid the row of mature maple trees along the existing farm road/trail. Creating a uniform cross section, providing fire truck access, avoiding the trees, and installing new compliant stream crossings moving the roadway upgradient is not recommended or practical. A condition allowing a narrow road would allow further design and evaluation to occur on this matter.

2. Cabins on Fill: The 2-3 cabins in the area of flags 608-617 may be positioned on or near old, landfilled logging debris (tree trunks and slash).

The cabins will be constructed on drilled screw piles or piers. Site specific remedies for geotechnical evaluation and support will be completed in accordance with the building code under the supervision of a professional engineer.

4. B Road Issues: The construction of the B Road will yield 7 additional cabins, yet there are several issues to consider:

SK Design Group, Inc response to comments received.
Submitted at Planning Board meeting on April 9, 2024

- a. This area is lightly forested with deciduous trees with little understory. The 7 cabins will be conspicuous from most of the upper C Road cabin decks, detracting from the experience.

The applicant has reviewed this from a program standpoint and finds it is acceptable.

- b. The roadway alignment as flagged will require blasting of ledge and rock outcrops to be constructed.

This is anticipated and included in the project budget. The preliminary grading plans match grades in most areas. Please refer to the site plans.

- c. An isolated wetland is proposed to be filled. Roadway construction and parking areas are proposed within the 100-foot wetlands buffer zone.

Updated wetland plans avoid the Isolated wetlands.

- d. The two southerly cabins will require a stream crossing over and direction drilling under for utilities.

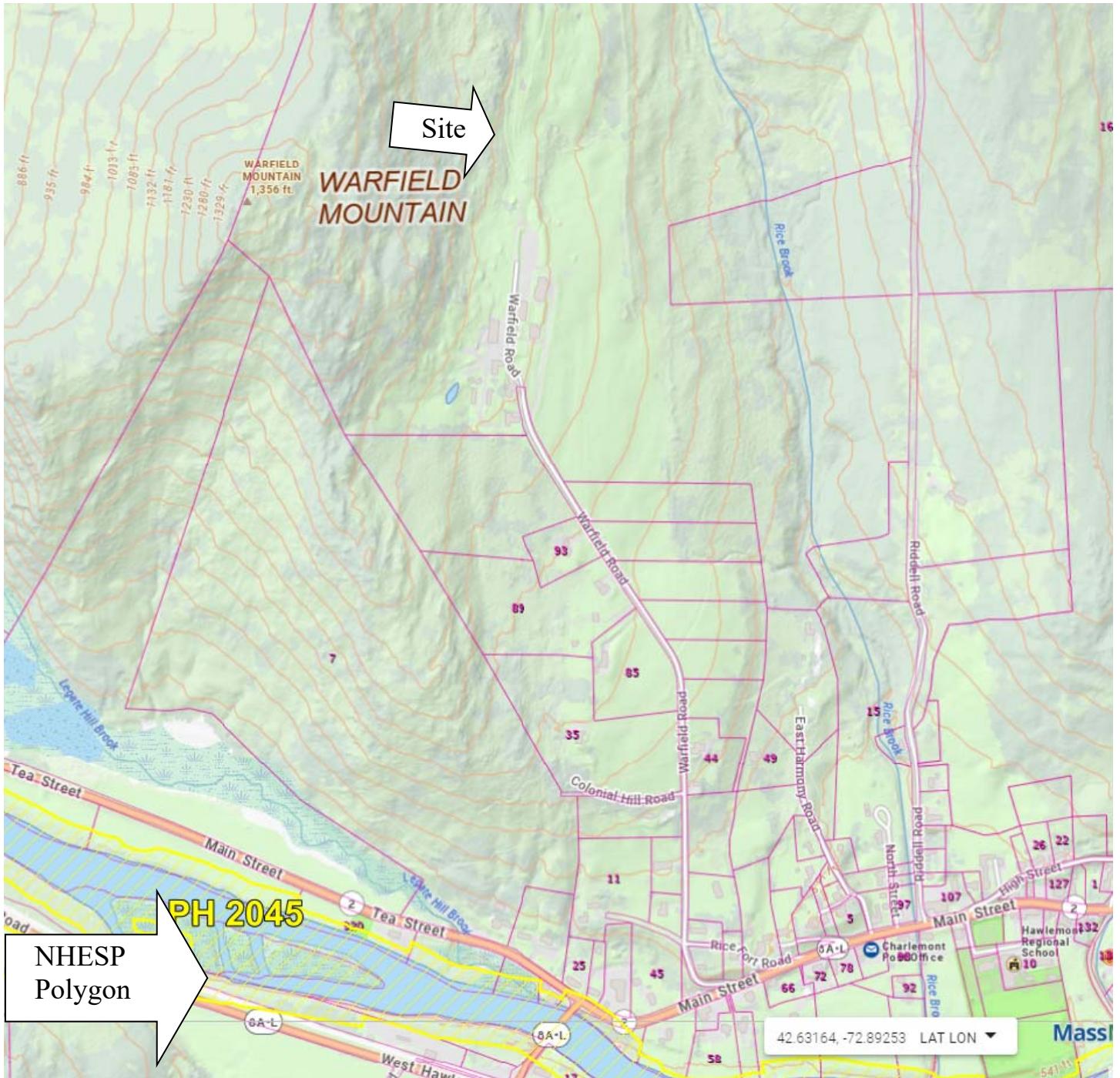
A bridge is proposed thus the impacts to Bank will be temporary.

This B Road section, given its difficulties, might be considered as a final or even later phase once demand for the glamping cabins has been assessed.

The project pro-forma requires the project to be constructed at one time. Further phasing would result in disruption of future use to add a later phase which would shut down the proposed resort during construction. Phasing is not an acceptable alternative for the applicant.

Trip Generation Worksheet

| Use | LUC | # of Units | Unit of Measure | AM Peak Hour | PM Peak hour | Trips | Weekday | Peak Hour | Weekend | Daily Trips |
|---------------------------------|-----------|------------|-----------------|--------------|--------------|-------------|-------------|-----------|-------------|-------------|
| | | | | | | | Daily | | Daily | |
| Existing uses | | | | | | | | | | |
| Motel Room B&B | 320 | 15 | Rooms | 10 | 10 | 138 | 11 | | 133 | |
| Apartment | 219 | 1 | Rooms | 3 | 16 | 7 | 1 | | 6 | |
| Restaurant (275 Seats) | 831 | 5500 | SF | 31 | 103 | 699 | 110 | | 871 | |
| Banquet Hall | W09 | 275 | Seats | 44 | 83 | 787 | 91 | | 773 | |
| | | | | 88 | 212 | 1630 | 213 | | 1783 | |
| Proposed Uses | | | | | | | | | | |
| Campground | 32 | sites | 12.8 | 12.8 | 64 | 192 | 96 | | | |
| Banquet Hall | 275 | seats | 44 | 83 | 787 | 91 | 773 | | | |
| Restaurant(150 seats) 20sf/seat | 831 | 3000 | SF | 17 | 56 | 381 | 60 | | 475 | |
| Apartment | 219 | 1 | Rooms | 3 | 16 | 7 | 1 | | 6 | |
| Guest Suites Staff | 6 | Rooms | 6 | 19 | 40 | 3 | 3 | | 44 | |
| | 82 | 186 | | 1279 | | 174 | 1395 | | | |
| | -5 | -26 | | -352 | | -39 | -388 | | | |



Source: Mass Mapper

Figure #3

NHESP MAP
Warfield Property
Charlemont, Massachusetts



DESIGN GROUP, INC.

CIVIL ENGINEERS - SURVEYORS - CONSULTANTS

2 FEDERICO DR., PITTSFIELD, MA 01201 (413) 443-3537

THE NELSEN TEAM
SKETCH PLAN
PREPARED FOR:
WAFFELED ROAD
LOCATED AT:
CHARLEMONT, MASSACHUSETTS

SKETCH PLAN

Civil Engineers, Surveyors, Consultants
Design Group, Inc.
2 FEDERAL DRIVE, PITTSFIELD, MASSACHUSETTS 01201 • (413) 443-3577
SK-DESIGN GROUP, INC. PROJECT # 230-178

1 of 1
DRAWN BY: CHECKED BY:
DTE: MAR 1, 2024 SHEET NO.:
ISSUED FOR: SCALE: AS NOTED

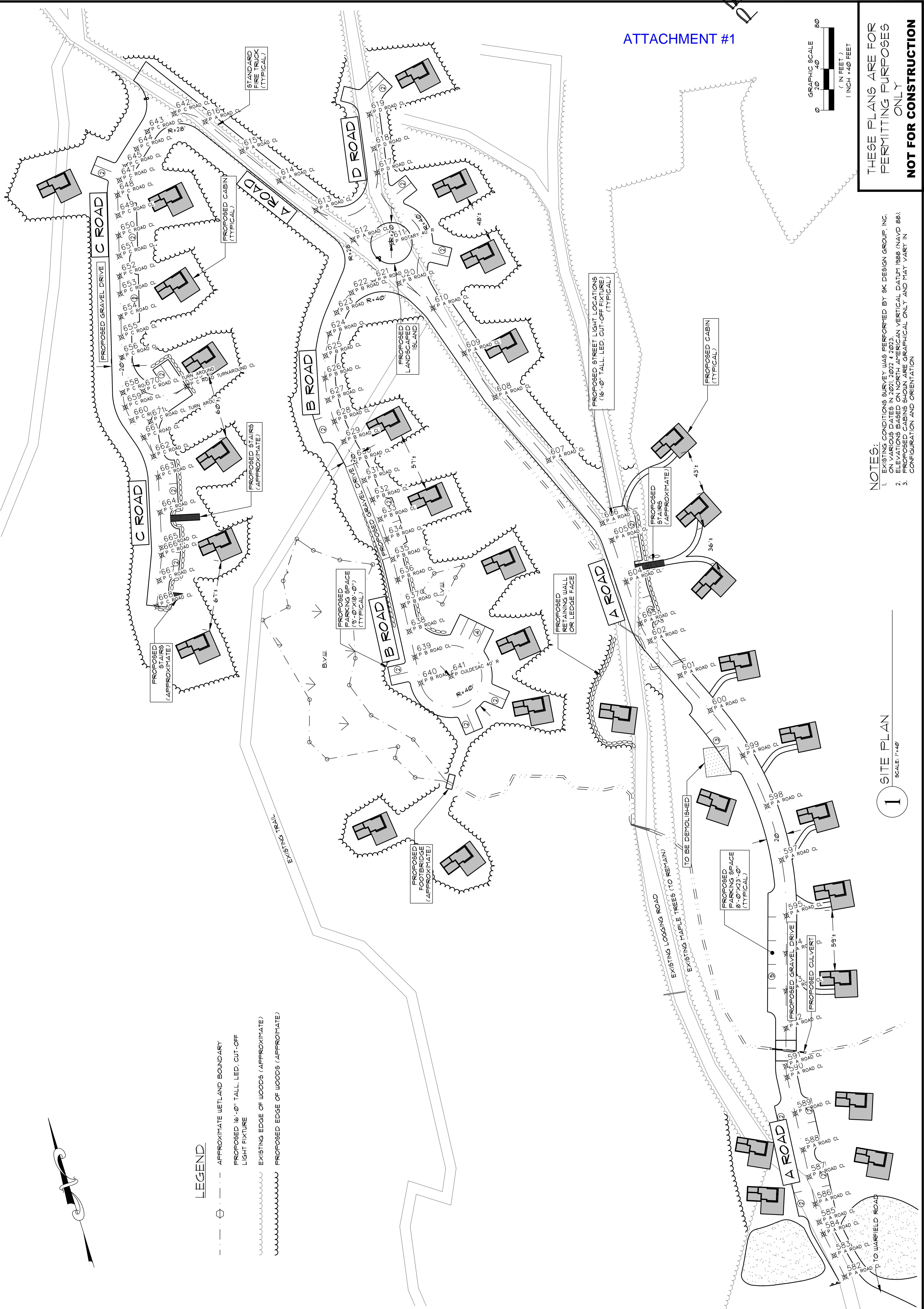
ATTACHMENT #1

GRAPHIC SCALE
1 INCH = 40 FEET
0 20 40

THESE PLANS ARE FOR
PERMITTING PURPOSES
ONLY
NOT FOR CONSTRUCTION

NOTES:
1. EXISTING CONDITIONS SURVEY WAS PERFORMED BY SK DESIGN GROUP, INC.
ON VARIOUS DATES IN 2021-2022 & 2023.
2. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
3. PROPOSED LABELED SHOWN ARE GRAPHICAL ONLY AND MAY VARY IN
CONFIGURATION AND ORIENTATION.

1 SITE PLAN
SCALE: 1"=40'



"Moon" Cabin B: 504sf

1. **Floor to Ceiling windows** at principal view. Note, windows may be interrupted at 8' AFF, by timber frame truss to avoid structural complication of bottom chord.

2. **"Kitchenette"**. Approx. six linear feet with shelving above, under-counter 24" Ref, microwave, 2 burner induction and small sink.

3. King size bed

4. **Three fixture bathroom** with shower for two.

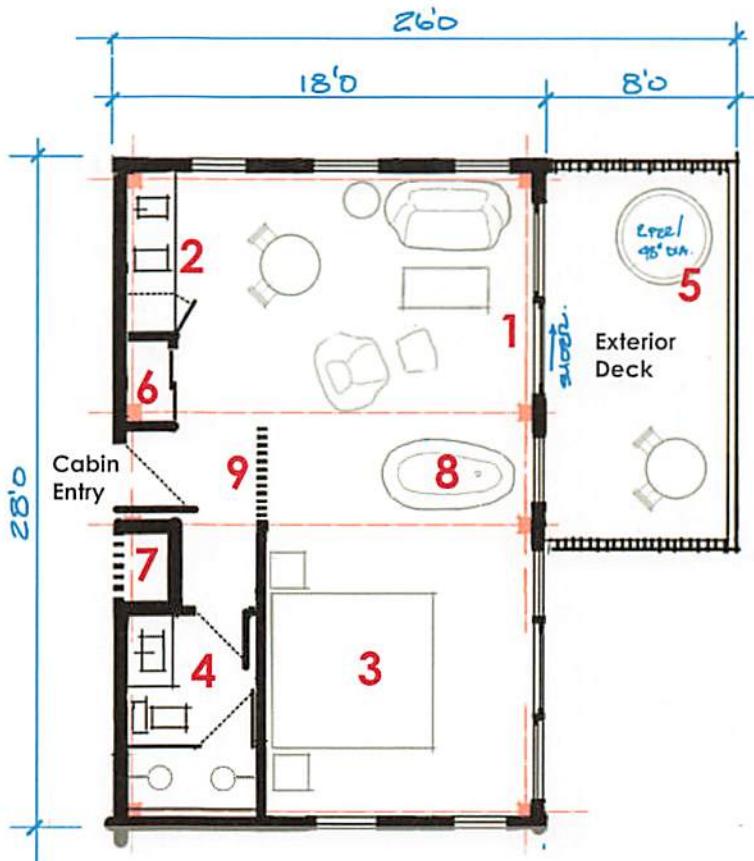
5. **Exterior Hot Tub**, for two, with privacy screens at short sides of deck.

6. Entry closet

7. **Mechanical closet** with exterior access louvered doors.

8. **Freestanding feature tub** with window views.

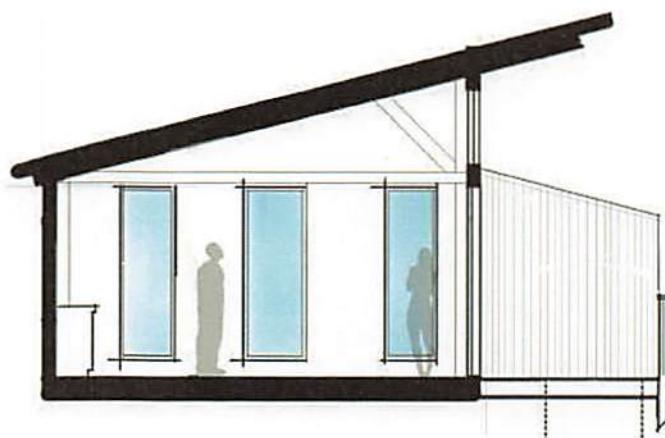
9. **Privacy Screen**



Floor Plan

In addition, all cabins will:

- Include pier foundations bearing on adequate soil/rock, and will be laterally braced required.
- Contain conditioned interior spaces meeting applicable MA Energy Code.



Section

One Bedroom Cabin, 504sf:

1. **Floor to Ceiling windows** at principal view. Note, windows may be interrupted by timber header to avoid structural complexity.

2. Kitchen. Approx. 12 linear feet with shelving above. Full 30" ref, microwave, 2 burner induction and sink.

3. King Bedrm. Nightstand features integrated into headboard. Room size: ±11'0 x 14'6"

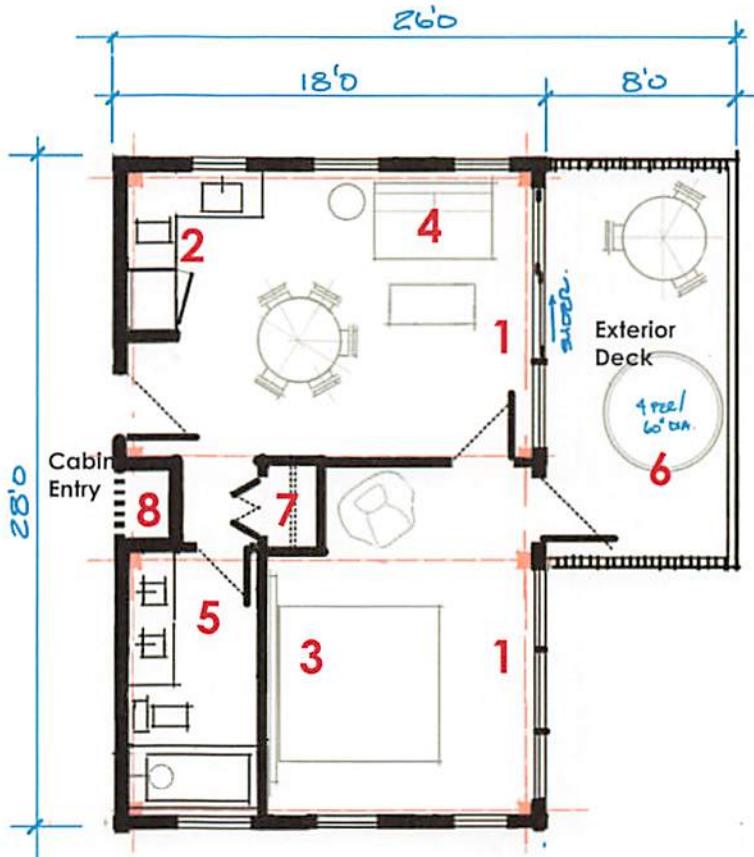
4. Pull-out Queen Bed

5. Four fixture bathroom with large alcove tub and shower.

6. Exterior Hot Tub, with privacy screens at short sides of deck.

7. Entry closet

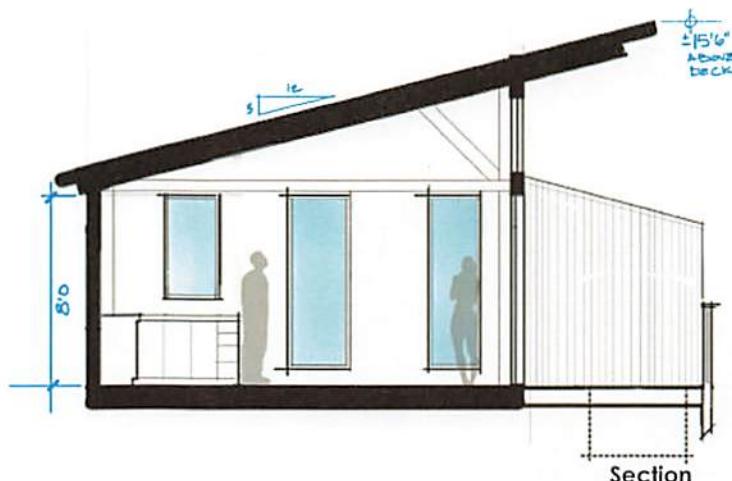
8. Mechanical closet with exterior access louvered doors.



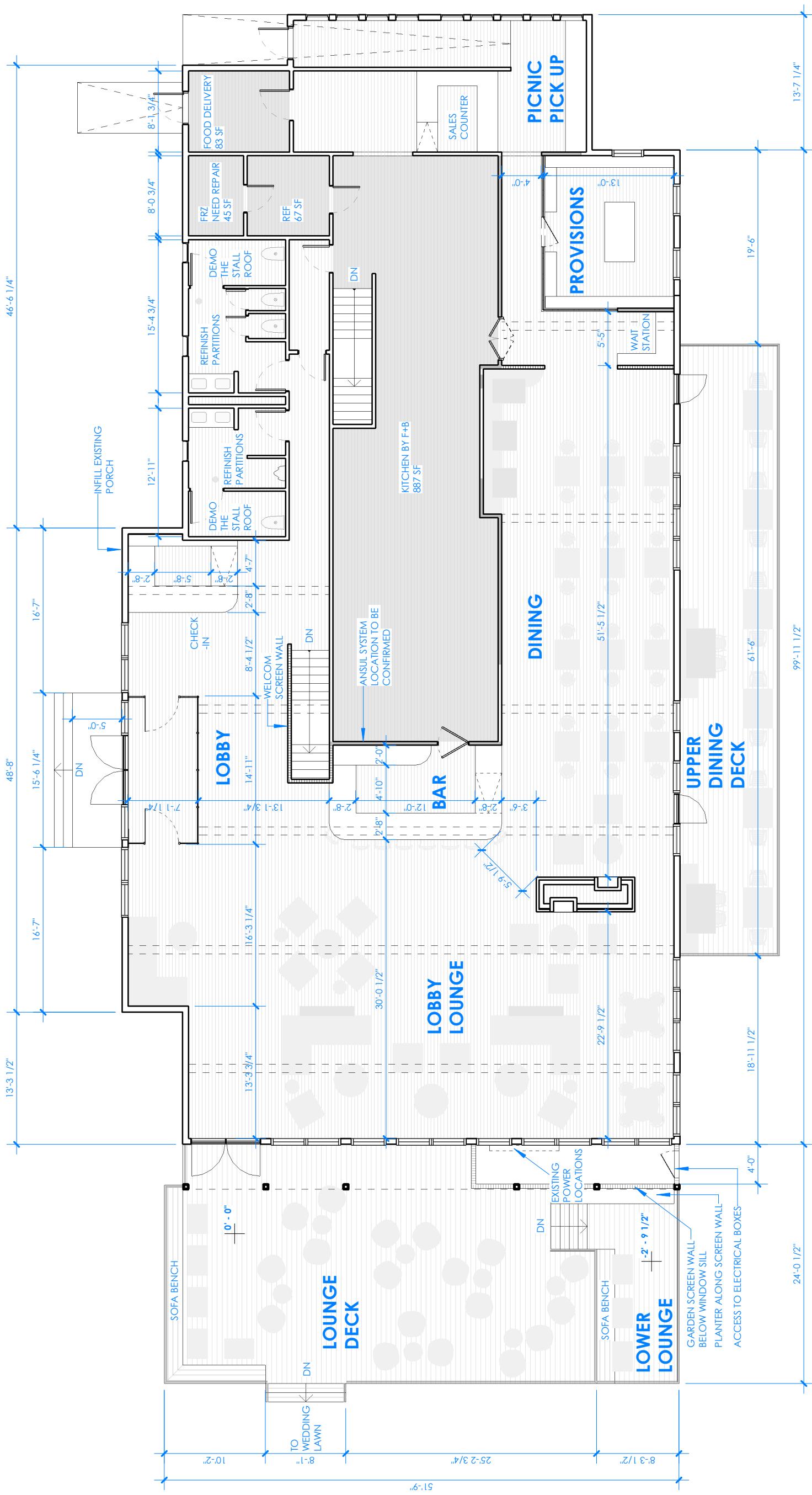
Floor Plan

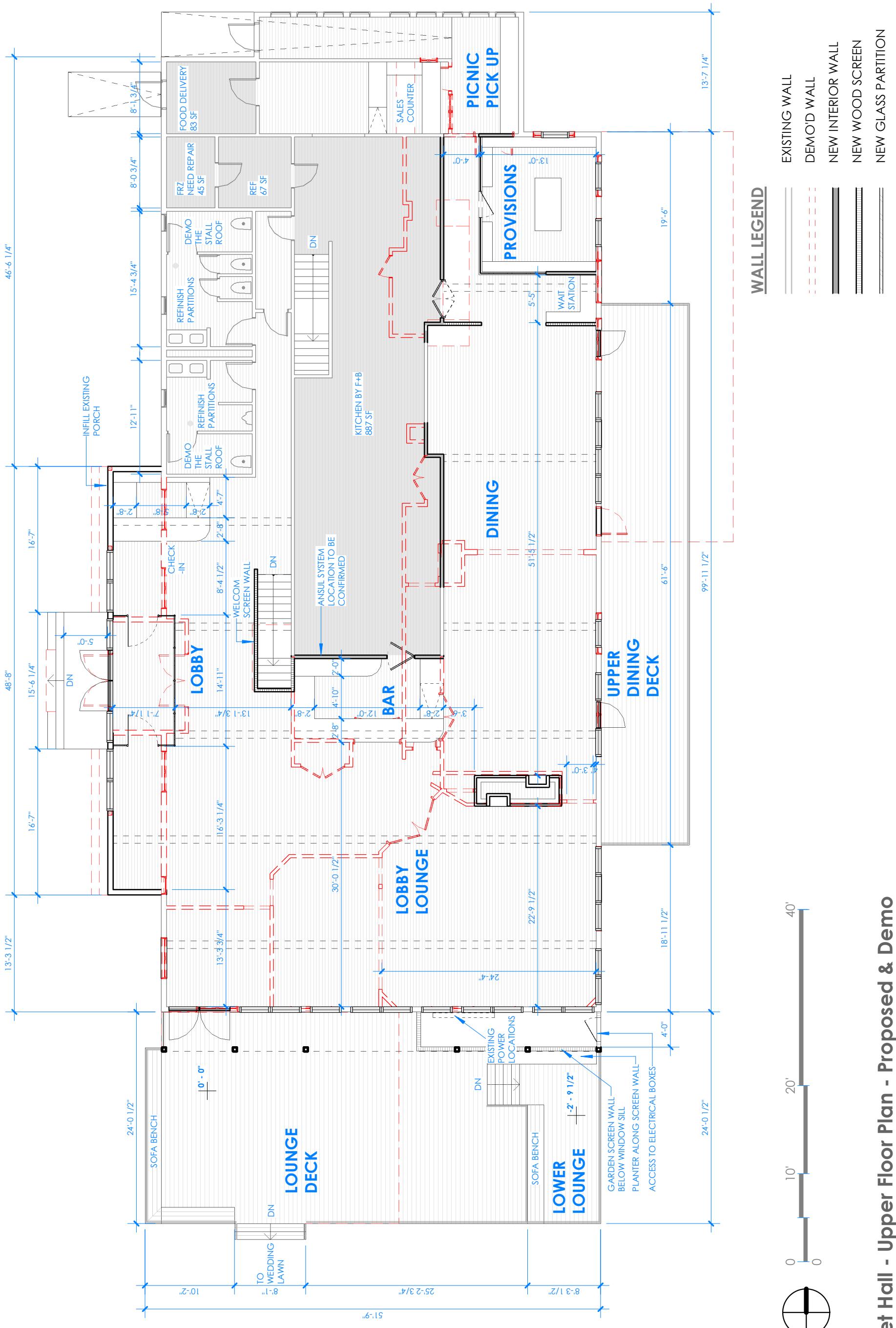
In addition, all cabins will:

- Include pier foundations bearing on adequate soil/rock, and will be laterally braced required.
- Contain conditioned interior spaces meeting applicable MA Energy Code.



Banquet Hall - Proposed Upper Floor Plan





Title V Flows

| <u>Proposed use</u> | <u>Unit</u> | <u>unit qty</u> | <u>Unit flow (GPD)</u> | <u>WW production (GPD)</u> | <u>Remarks</u> |
|-----------------------|-------------|-----------------|----------------------------|--------------------------------|-------------------|
| Campground | Bedroom | 32 | 110 | 3520 | |
| Function Hall | person | | | 429 | Part time use |
| Restaurant | seat | 150 | 35 | 5250 | Public Restaurant |
| Main House B & B | Bedroom | 9 | 110 | 990 | |
| Bungalow B & B | Bedroom | 6 | 110 | 660 | |
| Apartment Sugar house | Bedroom | 0 | 110 | 0 | |

10849

infiltration

650

11499

Table 1
Warfield House Estate, Charlemont, MA
Wastewater Flow Calculations

| Wastewater Source | Unit | Unit Quantity | Unit Flow ¹ (gal/day/unit) | Wastewater Production (gpd) |
|--|---------|---------------|--|--------------------------------|
| Bed & Breakfast (The Main House) | Bedroom | 9 | 110 | 990 |
| Bed & Breakfast (The Bungalow) | Bedroom | 6 | 110 | 660 |
| Apartment (The Sugar House) | Bedroom | 1 | 110 | 110 |
| Restaurant | Seat | 275 | 35 | 9,625 |
| Seasonal Use - Function Hall (Pavilion) ² | --- | --- | --- | 429 |
| TOTAL SANITARY FLOW: | | | | 11,814 |
| Infiltration - 4" PVC Pipe ³ | mile | 0.65 | 1000 | 6,47 |
| TOTAL WASTEWATER FLOW: | | | | 12,461 |

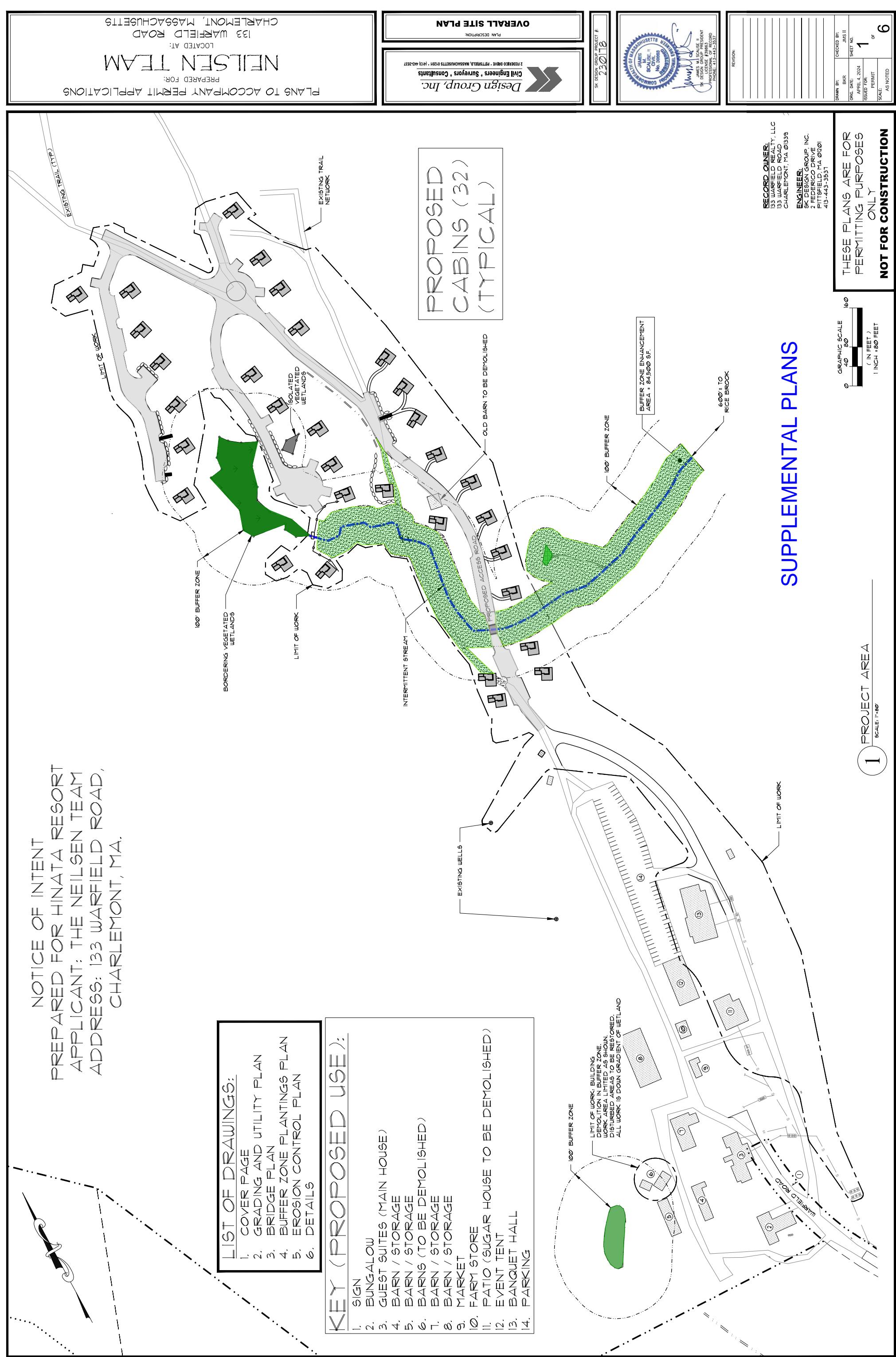
Notes:

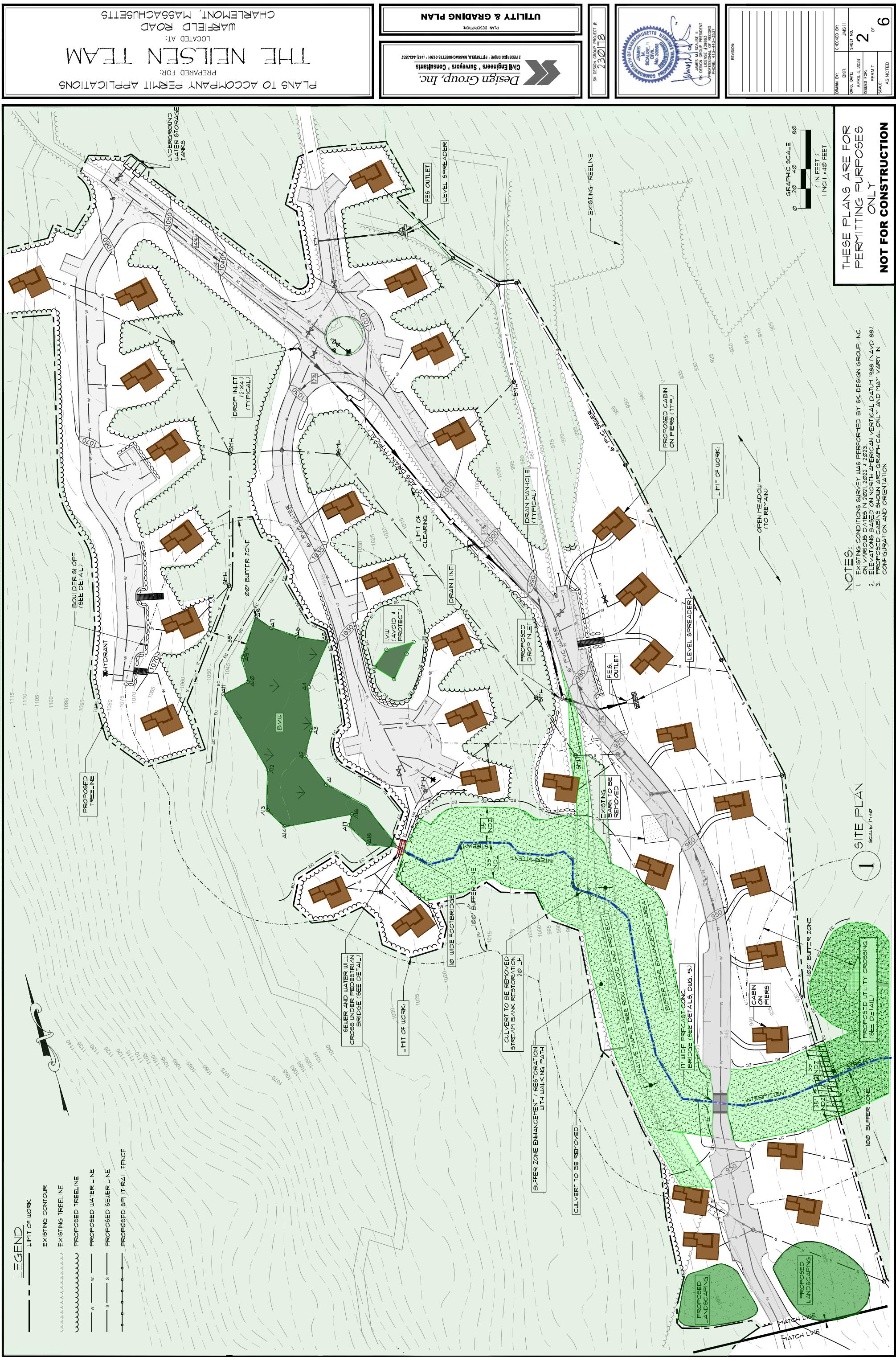
1. Wastewater unit flows based upon 310 CMR 15.203
2. For Pavilion flows see Table 2, below.
3. TR-16 2.2.3.3 - Infiltration: 250 - 500 gpd/in diameter/mile pipe. Use 250 gpd for low groundwater area.

NOTICE OF INTENT
APPLICANT: THE NEILSEN TEAM
ADDRESS: 133 WARFIELD ROAD,
CHARLEMONT, MA.

| <u>LIST OF DRAWINGS:</u> | |
|-------------------------------|--|
| 1. COVER PAGE | |
| 2. GRADING AND UTILITY PLAN | |
| 3. BRIDGE PLAN | |
| 4. BUFFER ZONE PLANTINGS PLAN | |
| 5. EROSION CONTROL PLAN | |
| 6. DETAILS | |

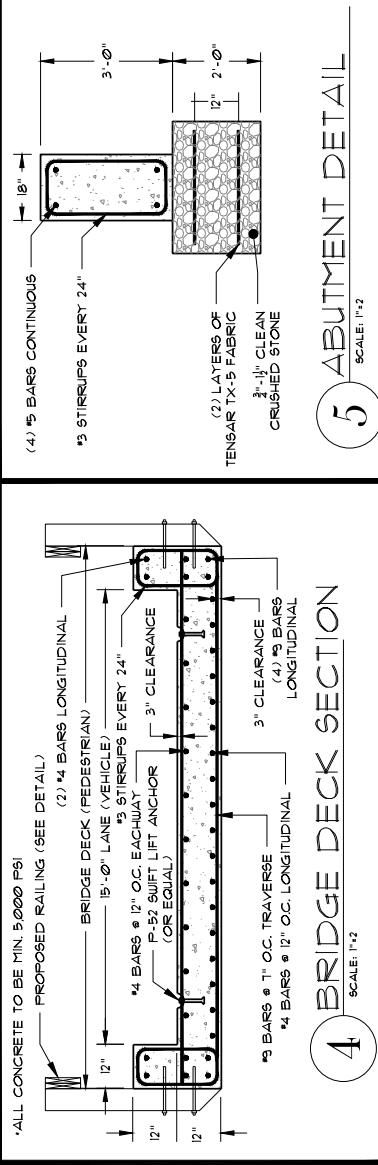
| <u>KEY (PROPOSED USE):</u> | |
|--|--|
| 1. SIGN | |
| 2. BUNGALOW | |
| 3. GUEST SUITES (MAIN HOUSE) | |
| 4. BARN / STORAGE | |
| 5. BARN / STORAGE | |
| 6. BARN (TO BE DEMOLISHED) | |
| 7. BARN / STORAGE | |
| 8. BARN / STORAGE | |
| 9. MARKET | |
| 10. FARM STORE | |
| 11. PATIO (SUGAR HOUSE TO BE DEMOLISHED) | |
| 12. EVENT TENT | |
| 13. BANQUET HALL | |
| 14. PARKING | |



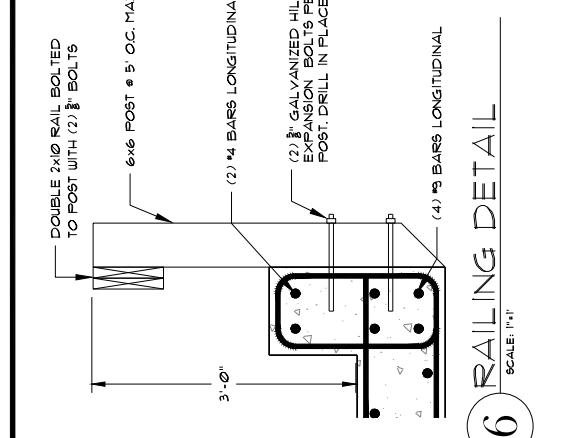




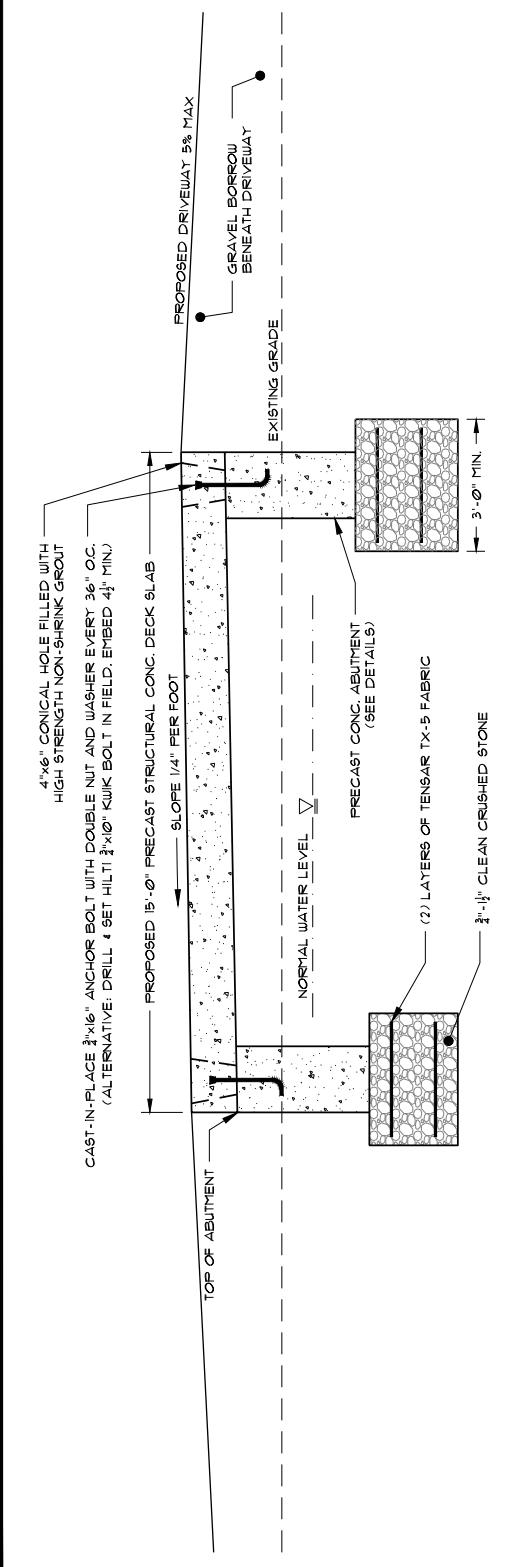
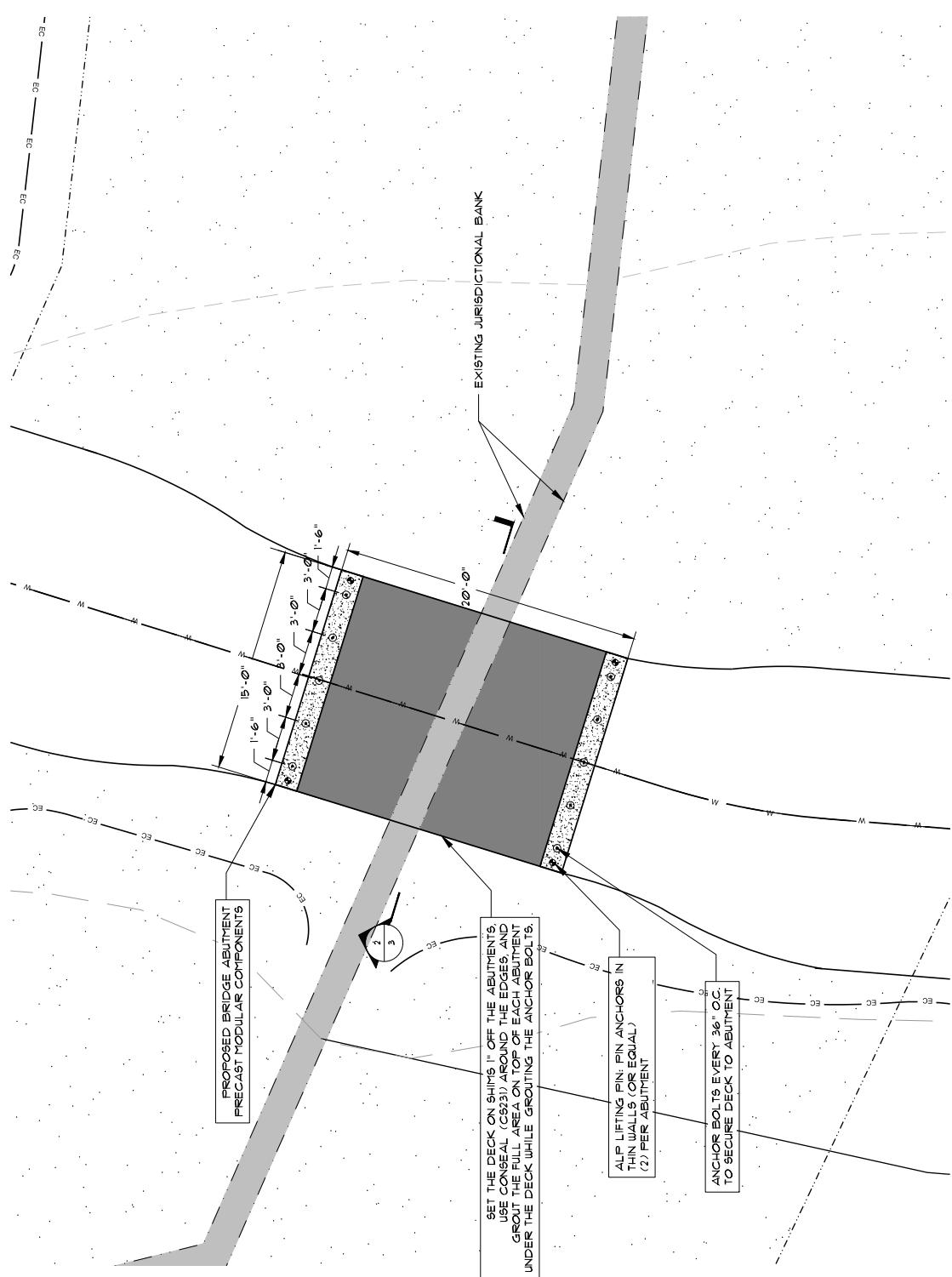
3 GRAVEL DRIVEWAY DETAIL



5 ABUTMENT DETAIL



NOTES:
CONTRACTOR SHALL EXERCISE CAUTION NOT TO BURST OR
DAMGE THE SEDIMENT FILTER BAG WHEN PILING ON THIS
TOE PRINT OF THE BAG SHALL BE 180 SF.
SEDIMENT FILTER BAGS MAY BE EQUIPPED WITH A SEIN-IN
SLEEVES OF SUFFICIENT SIZE TO ACCEPT A MIN 4" DIA. FLOW
DISCHARGE HOSE, A HOSE CONNECTION THROUGH A SLIT IN
THE BAG IS ALSO ACCEPTABLE.
THE DISCHARGE HOSE SHOULD BE EXTENDED INTO THIS
SLEEVE A MIN OF 6' BE TIGHTLY SECURED WITH A HOSE
CLAMP OR OTHER SUITABLE MEANS TO PREVENT LEAKAGE.
THE PUMP DISCHARGE HOSE CONNECTION SLEEVE OR SILT
SHALL BE SECURELY TIED OFF DURING DISPOSAL OF THE
SEDIMENT FILTER BAG IN ORDER TO PREVENT LEAKAGE OR
COLLECTED SEDIMENT'S.
SURROUND SEDIMENT FILTER BAG ASSEMBLY WITH SILT FENCE.
SEDIMENT TUBES OR FILTER SOCKS MAY BE USED AS AN
ALTERNATIVE TO SILT FENCE.



THESE PLANS ARE FOR
PERMITTING PURPOSES
ONLY
NOT FOR CONSTRUCTION



BUFFER ZONE ENHANCEMENT/RESTORATION AREAS:

AREA I - THIS AREA IS ESTABLISHED AS A STEEP MATURE FOREST WITH A MIX OF NORTHERN HARDWOOD SPECIES. THE APPLICANT PROPOSES TO PROVIDE PROTECTION IN THIS AREA WITH THE INSTALLATION OF A WOODEN SPLIT RAIL FENCE IN THE AREAS WITH CLOSE PROXIMITY TO THE PROPOSED PROJECT

AREA 2 - THIS AREA CURRENTLY EXISTS AS A COMPACTED GRAVEL WOOD ROAD. THE APPLICANT PROPOSES TO LOOSEN THE EXISTING COMPACTED SOIL AND ADD 6" TO 12" OF CLEAN TOPSOIL TO PROVIDE ROOT GROWTH OF THE PROPOSED RESTORATION PLANTINGS. THE FOLLOWING PLANTINGS HAVE BEEN SELECTED TO MATCH ADJACENT UNALTERED BUFFER ZONE AREAS (AREA 1).

AREA II BUFFER ZONE RESTORATION PLANTINGS

| New England Wetland Plants, Inc. | | | |
|--|--|--|--|
| 202 WEST STREET, AMHERST, MA 01002 PHONE: 413-546-8000 FAX: 413-546-4000 EMAIL: info@newwp.com WEB ADDRESS: www.newwp.com New England Semi-Shrub Grass and Sedges Attn: | | | |
| <i>Common Name</i> | | | |
| <i>Botanical Name</i> | | | |
| Upland Wild Berry | | | |
| <i>Fragaria virginiana</i> | | | |
| Ferns & other | | | |
| <i>Polystichum acrostichoides</i> | | | |
| Purshia Pittosporum | | | |
| <i>Pithecellobium dulce</i> | | | |
| Sensitive Fern | | | |
| <i>Sorbus americana</i> | | | |
| Shrubland | | | |
| <i>Spiraea alpine</i> | | | |
| Spiraea betulifolia | | | |
| Spiraea canescens | | | |
| Spiraea glabra | | | |
| Spiraea lucida | | | |
| Spiraea salicifolia | | | |
| Spiraea spinosa | | | |
| Staghorn Sumac | | | |
| <i>Rhus typhina</i> | | | |
| Tall Meadow-Rue | | | |
| <i>Achillea millefolium</i> | | | |
| Yellow Birch | | | |
| <i>Betula alleghaniensis</i> | | | |
| American Hemlock | | | |
| <i>Tsuga canadensis</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
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| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
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| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
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| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
| White Spruce | | | |
| <i>Picea glauca</i> | | | |
| Red Spruce | | | |
| <i>Picea rubens</i> | | | |
| Norway Spruce | | | |
| <i>Picea abies</i> | | | |
| Balsam Fir | | | |
| <i>Abies balsamea</i> | | | |
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| <i>Picea glauca</i> | | | |
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