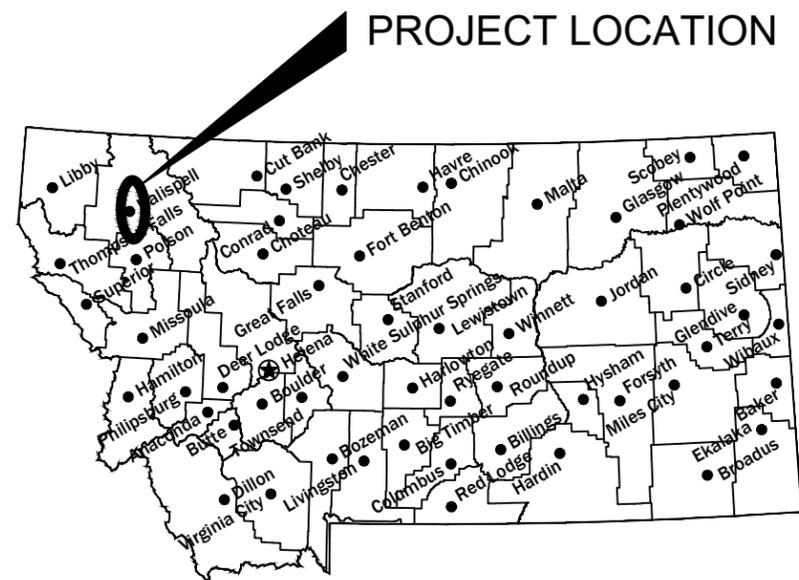


Montana Fish, Wildlife, and Parks Somers Beach State Park Improvements Phase II

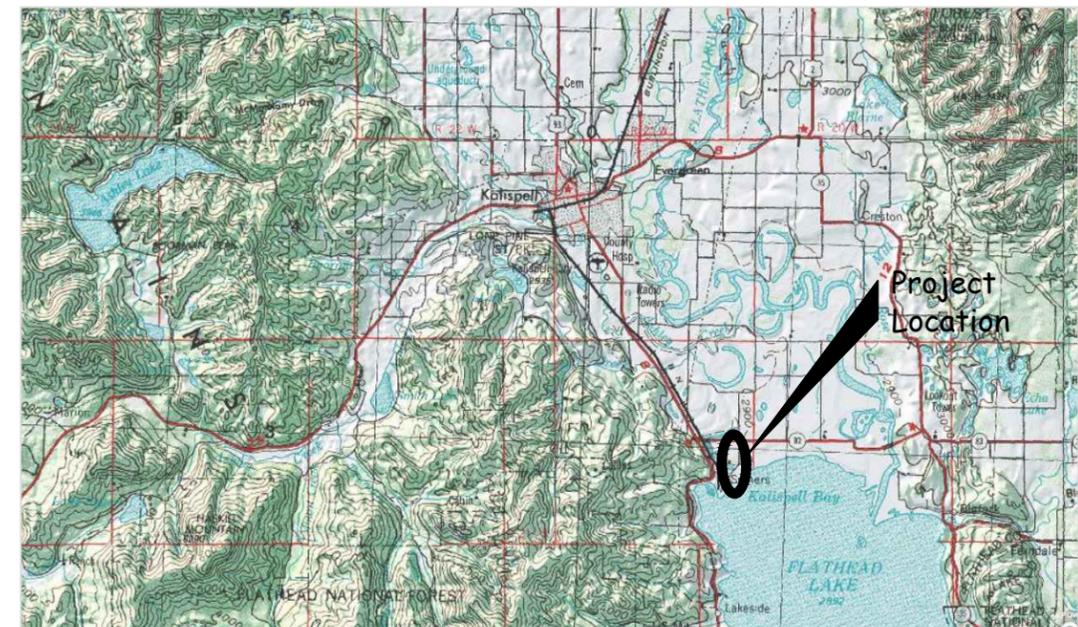
Near Somers, Montana

FWP # 7216807



Location Map

No Scale



Vicinity Map

No Scale

North



**MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION**

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**DESIGN ENGINEER:
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MAILING ADDRESS:

138 E CENTER STREET
KALISPELL, MT 59901

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DRAWING INDEX

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| Sheet 6 of 14.....BNSF Trail Alternate | Sheet 13 of 14.....Vault Toilet Details |
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Cover Sheet
Somers Beach State Park - Improvements Phase II

SHEET: 1 of 14

Keyed Notes for Siteplan:

- A. Existing Somers Road
- B. Existing Burnell Ave
- C. Work site access point
- D. Limits of disturbance
- E. Contractor staging and materials storage area
- F. Contractor personnel parking
- G. B.N.S.F. Property (see note)
- H. Flathead Lake

Construction Limits Notes:

This exhibit shows the limits of contractor access and disturbance.

Re-vegetation Seed Mix Note:

Contractor shall utilize the native grass seed mix available at C.H.S. Kalispell and sold as "Valley Mix". Seed shall be, at a minimum, broadcast spread at 25 lbs per acre.

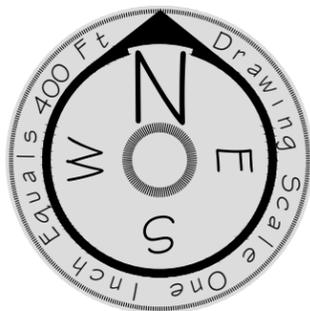
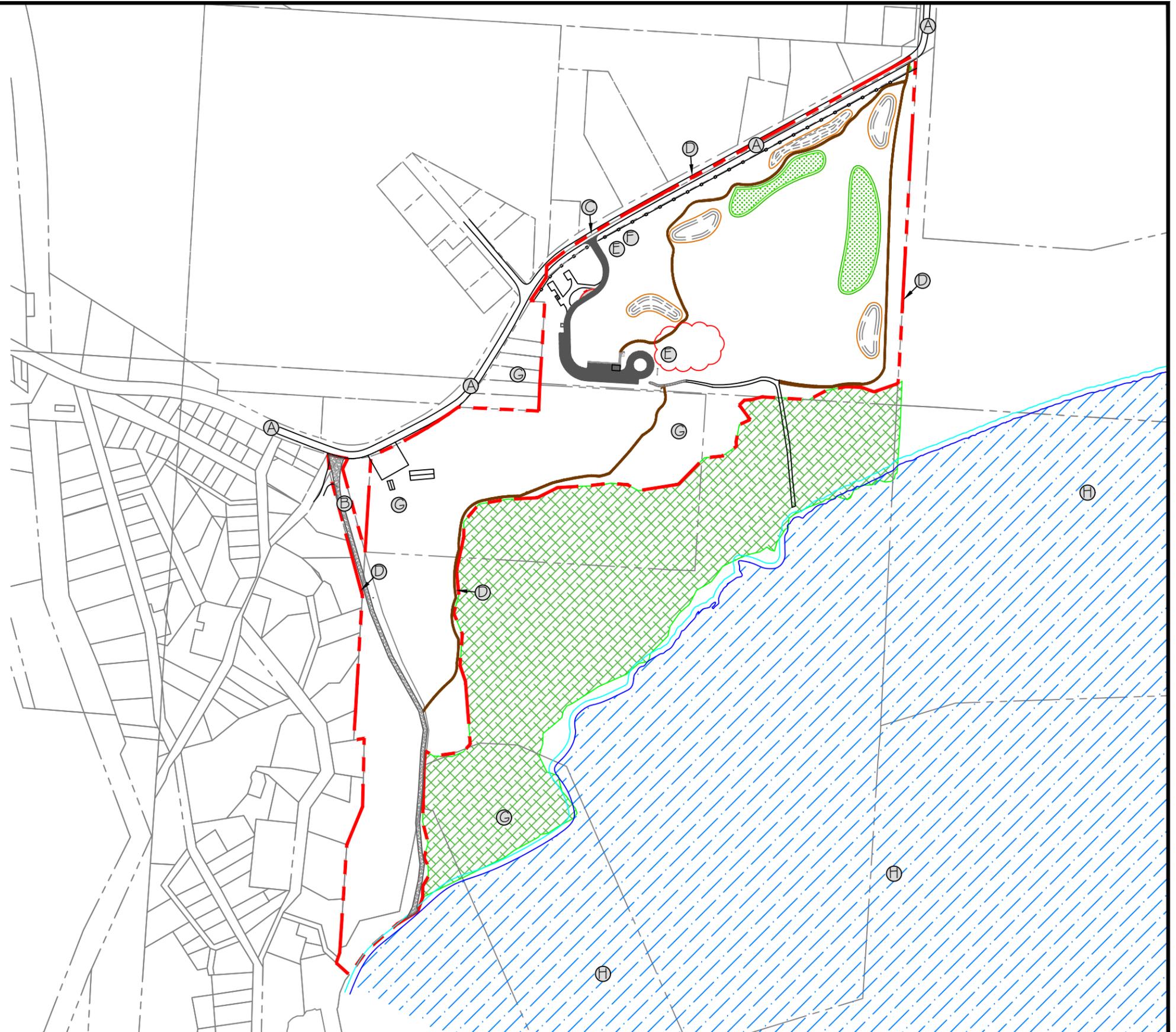
Disturbed Areas Note:

Area to be reclaimed, finish graded, raked and seeded include stormwater ditches, construction access point(s) and all other disturbed areas not intended to be graveled or asphalted.

B.N.S.F. Property Note:

Under no circumstances shall the contractor enter, cross or affect the adjacent B.N.S.F. property EXCEPT for specific trail construction work upon that property.

Also under no circumstances shall the contractor remove or relocated soils found upon the B.N.S.F. property.



Scale:



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Project Area Location / Limits

Somers Beach State Park - Improvements Phase II

SHEET: 2
 of 14

Keyed Notes for Siteplan:

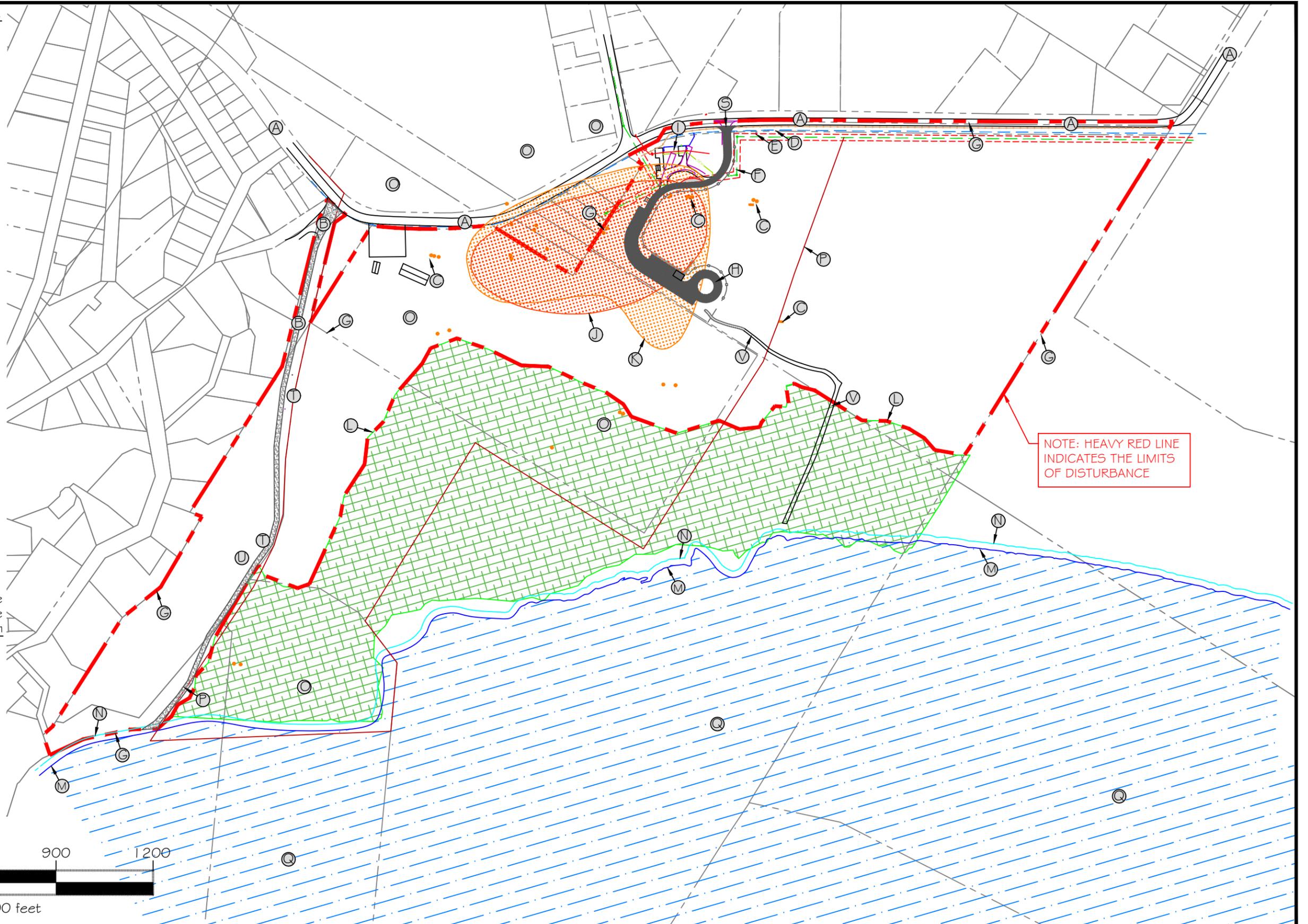
- A. Existing Somers Road
- B. Existing public section of Burnell Ave, outside FWP parcel
- C. Existing Shallow Groundwater monitoring wells for Adjacent Superfund Cleanup, DO NOT DISTURB
- D. Existing Water Main
- E. Existing Fire hydrant
- F. Existing Sanitary Sewer main
- G. Existing State Park Boundary
- H. Existing Road and Parking Area
- I. Host Pads and Park Storage Building
- J. Existing Benzene Shallow Groundwater Plume Boundaries as mapped in 2022 BNSF Annual Groundwater Monitoring Report.
- K. Existing Dimethylphenol Shallow Groundwater Plume Boundaries as mapped in 2022 BNSF Annual Groundwater Monitoring Report.
- L. Existing Wetland Boundary
- M. Existing Highwater Mark for Flathead Lake 2896 Ft (NAVD88)
- N. Existing 20 Foot Setback from High Water Mark (Lakeshore Protection Zone)
- O. B.N.S.F. property (see note)
- P. Controlled Groundwater Area per DEQ and DNRC
- Q. Flathead Lake
- R. Not Used
- S. Existing permitted approach
- T. Existing non-public section of Burnell Ave, inside FWP parcel
- U. Location of existing boulder stockpile
- V. Existing Trail to Remain

B.N.S.F. Property Note:

Under no circumstances shall the contractor enter, cross or affect the adjacent B.N.S.F. property except in location of trail alternate shown.



Scale: 1 inch = 300 feet



NOTE: HEAVY RED LINE INDICATES THE LIMITS OF DISTURBANCE

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Existing Conditions Siteplan

Somers Beach State Park - Improvements Phase II

Keyed Notes for Siteplan:

- A. Existing Somers Road
- B. Existing Burnell Ave
- C. Existing monitoring wells
- D. Existing water main
- E. Existing fire hydrant
- F. Existing sanitary sewer main
- G. Existing paved approach and Entrance Gate
- H. Existing 2-rail wooden fenceline
- I. Existing graveled roadway and parking area
- J. Existing Boulders
- K. Existing Flathead Lake High Water Level
- L. Existing Flathead Lake 20 Foot Lakeshore Protection Zone
- M. Existing Trail to remain from Turn Around Area to Flathead Lake shore (No work shall be performed in the Wetland area shown)
- N. Existing Wetland Area per Mapping done by previous consultants
- O. Existing Host Pads and Services
- P. Existing Garbage Facility
- Q. Existing pull out area with signage
- R. Proposed 5 Foot Wide Concrete Sidewalk with Vault Latrine per Details and (2) Concrete surface handicapped parking spots.
- S. Proposed 3 Foot Tall Berms in the Locations Shown
- T. Proposed Vault Toilet provided by FWP and installed as part of this project
- U. Proposed 1 Foot Deep depressions as shown on plans
- V. Proposed 1,800 Foot Length of 5 Ft Wide Trail through BNSF Land (Alternate Bid Option A)
- W. Proposed 3,300 Foot Length of 5 Ft Wide Trail as shown around hills and depressions created per the plans.
- X. Proposed Approximate 1,600 Feet of Split Rail Fence Along Somers Road to End of FWP Parcel. Gate Opening to be placed at Trail Entrance location shown on plans.
- Y. Proposed Entrance Gate in Fence for Proposed Trail Access



NOTE: HEAVY RED LINE INDICATES THE LIMITS OF DISTURBANCE

General Notes:

1. Utility locations shown on A2Z's plans are for informational purposes only. It is contractor's responsibility, under state law, to verify the presence, location and depth of all existing utilities. Contractor shall call 811 to notify utility location service of any possible excavation work more than 2 business days before commencing.
2. Any survey monuments (including property pins) disturbed by the contractor shall be replaced by a State licensed surveyor at contractor's expense.
3. Trenching and excavation are hazardous. Contractor shall take all necessary precautions to protect workers and comply with the Occupational Safety & Health Administration's established standards for such work, found in 29 CFR Part 1926 subpart P.
4. It is the contractor's responsibility to verify that all necessary permits and approvals are in place prior to beginning work. MT FWP shall obtain the temporary construction entrance permit. Contractor shall be responsible to obtain encroachment permit for Burnell Ave.
5. Contractor is responsible for obtaining, maintaining and closing out the required stormwater & erosion control permitting through MT DEQ and all other applicable jurisdictions.
6. Costs & coordination of testing constructed improvements are contractor's responsibility. Contact A2Z for specifics.
7. All public improvements shall be constructed and tested in accordance with the 2021 7th edition of the Montana Public Works Standard Specifications and State law. The construction plans are intended to work in conjunction with the above mentioned standards.
8. Engineer has made no investigative or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, zoning restrictions, or any other facts that an accurate and current title search or ALTA survey may disclose.



Scale: 1 inch = 300 feet

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Overall Site Improvements

Somers Beach State Park - Improvements Phase II

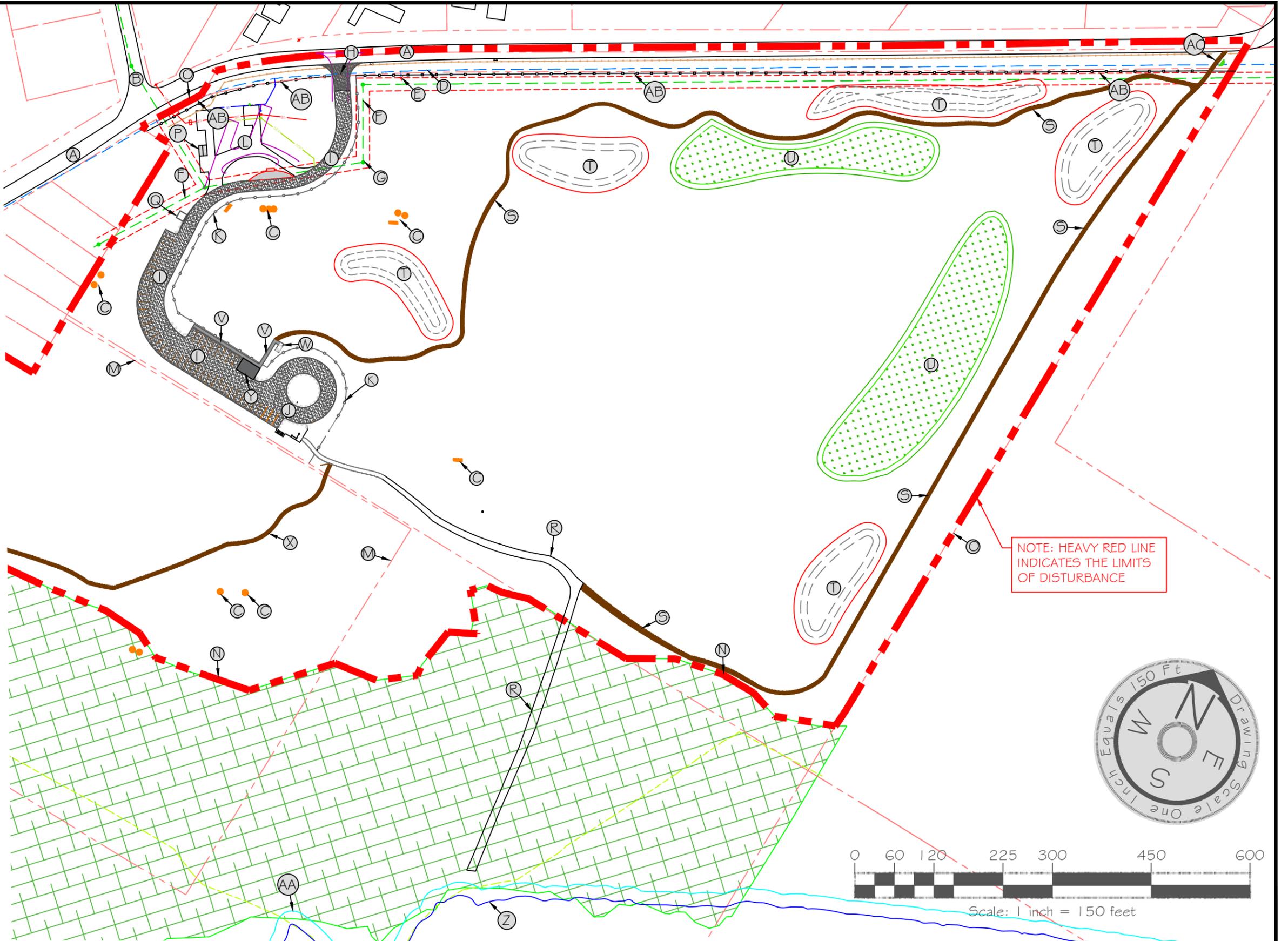
SHEET: 4 of 14

Keyed Notes for Siteplan:

- A. Existing Somers Road
- B. Existing Pickleville Lane
- C. Existing monitoring wells
- D. Existing water main
- E. Existing fire hydrant
- F. Existing sanitary sewer main
- G. Existing sanitary sewer manhole
- H. Existing paved approach and Existing Gate
- I. Existing graveled roadway
- J. Existing graveled turn-around area
- K. Existing 2-rail wooden fenceline
- L. Existing Host Pad Area
- M. Existing BNSF Property Boundary
- N. Existing Wetland Boundary
- O. Existing State Park Boundary and Limits of Project
- P. Existing FWP maintenance shed
- Q. Existing garbage enclosure
- R. Existing permitted path to lake, to remain

- S. Proposed 5 Ft Wide Trail approximately 3,300 feet in length on FWP property per Details in this plan set.
- T. Proposed 3 Foot Talls Berms as Shown with 4 to 1 slopes on all sides. Berms to be constructed of material from trail and depressions on site. Total area covered by Berms is 70,000 square feet.
- U. Proposed 1 Foot Depressions as Shown with 4 to 1 slope on all sides. Material shall be used for Berm construction. Total area occupied by depression is 80,000 square feet.
- V. Proposed 5 Foot Wide Sidewalk in conformance with ADA layout
- W. Proposed Vault Toilet provided by FWP and installed by Contractor as part of project
- X. Proposed 5 Foot Trail approximately 1,800 feet in length through BNSF property bid as Alternate Option 1
- Y. Proposed (2) Handicap Parking Spots
- Z. Flathead Lake Highwater Elevation/Boundary
- AA. 20 Ft Setback from Flathead Lake Highwater Level
- AB. Proposed 2-rail wooden fence to be installed along Somers Road (Approx 1 600 Ft), see detail
- AC. Proposed Gate in Fence for Trail Access with Signed provided by FWP. Contractor shall install Kiosk Slab per Detail on page 14. Location shall be located as directed by FWP personnel.

Existing Contamination Note: Contractor shall be responsible for monitoring and reporting to the owner and EOR on all excavations on site for chemicals related to the underground plumes on site. The plume locations and constituents are shown on page 2 of this plan set. Contact engineer of record for more information on existing site conditions.



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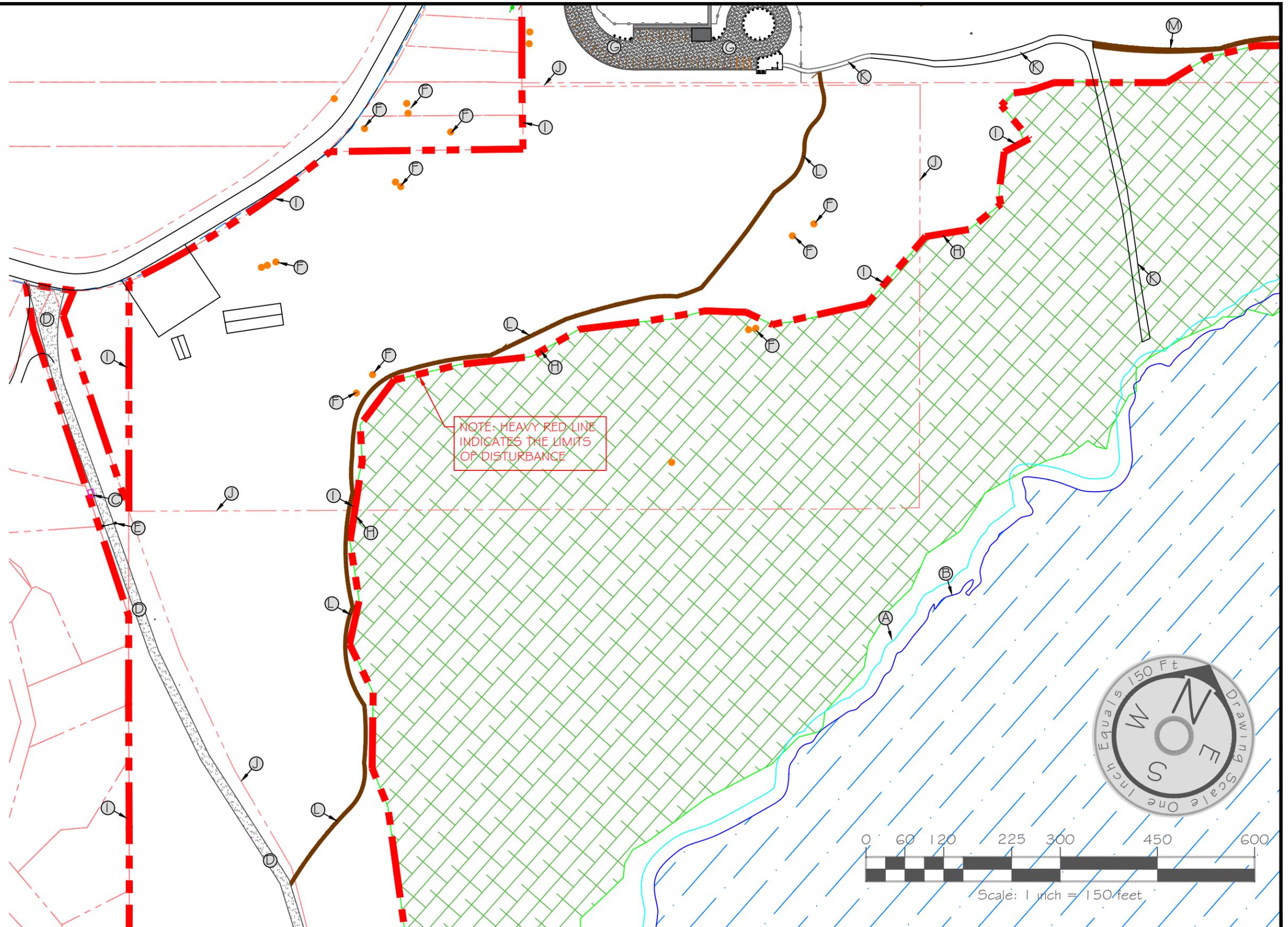
Site Improvements Main Park Area

Somers Beach State Park - Improvements Phase II

SHEET: 5 of 14

Keyed Notes for Siteplan:

- A. Existing 20 Foot Setback from Flathead Lake High Water (Lakeshore Protection Zone Boundary)
- B. Existing Flathead Lake High Water Boundary
- C. Existing Transformer
- D. Existing Burnell Avenue
- E. Existing FWP Gate
- F. Existing Monitoring Wells
- G. Existing Parking Area and Turn Around
- H. Existing Wetland Boundary (No disturbance shall occur within the identified wetland area)
- I. Limits of project (No disturbance or construction shall occur outside this identified boundary)
- J. Existing BNSF Boundary
- K. Existing Path to Lake shall remain
- L. Proposed 5 Foot Wide Trail 1800 feet in length through BNSF bid as an alternate option
- M. Proposed 5 Foot Wide Trail 3300 Feet in length through FWP property



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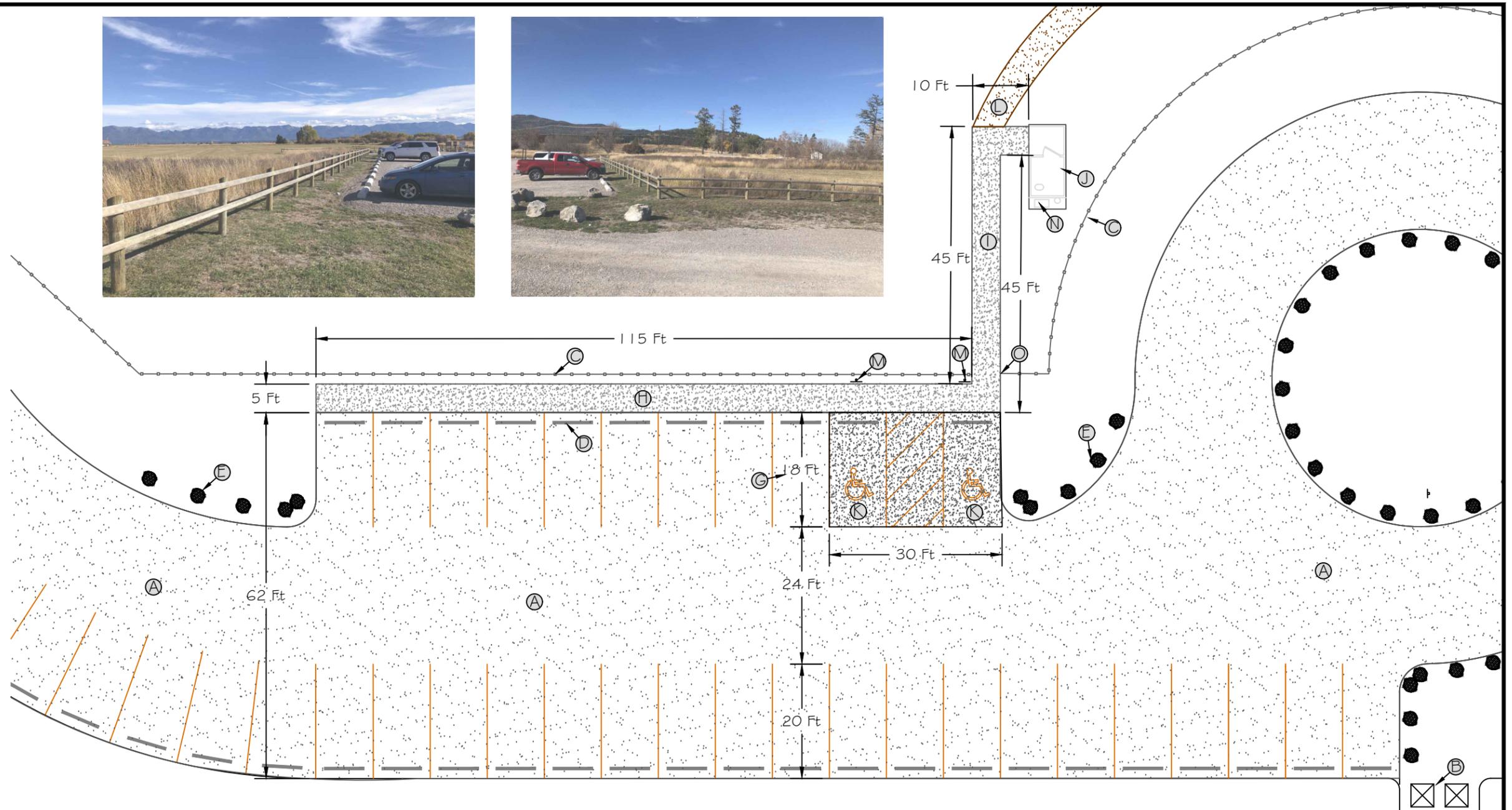


BNSF Trail Alternate Option

Somers Beach State Park - Improvements Phase II

Keyed Notes for Siteplan:

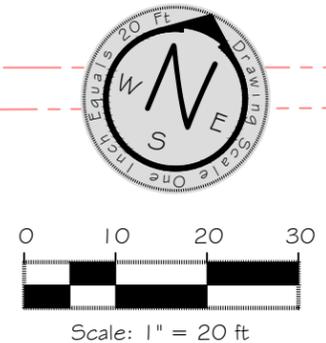
- A. Existing Road per Details
- B. Existing Bear Rated Garbage Cans on 3 Ft x 6 Ft (4" Thick) Concrete Slab
- C. Existing Split Rail Fence to Remain
- D. Existing Parking Blocks to be relocated as shown to allow for sidewalk and shortened spaces. Ensure parking blocks are placed 1.5 feet from sidewalk.
- E. Existing Boulders to remain as placed.
- F. Existing Property Line
- G. Proposed revision of 20 Ft Parking Spots to 18 Ft Parking Spots to allow for sidewalk within existing split rail fence.
- H. Proposed 5 Ft Wide Sidewalk along edge of existing parking.
- I. Proposed 5 Ft Sidewalk from Parking Area to Vault Toilet as shown, maintain 2% max slope on sidewalk. Sloping shall be field verified by contractor and communicated to EOR for approval prior to pouring concrete.
- J. Proposed Vault Toilet supplied by FWP and installed by contractor per Details in Plan Set.
- K. (2) Van Accessible ADA Spots with Concrete Surfacing per typical details
- L. Proposed Gravel Path Junction with Proposed Sidewalk
- M. Proposed ADA signs per details in plan set.
- N. Proposed Vault Toilet Pumping Access Location
- O. Proposed opening in Existing Fence for Proposed Sidewalk



Approximate Square Footages for Sidewalk and Parking
(Contractor shall verify prior to bidding)

Handicapped Parking - 550 Square Feet
Sidewalks - 850 Square Feet

Existing Contamination Note: Contractor shall be responsible for monitoring and reporting to the owner and EOR on all excavations on site for chemicals related to the underground plumes on site. The plume locations and constituents are shown on page 2 of this plan set. Contact engineer of record for more information on existing site conditions.



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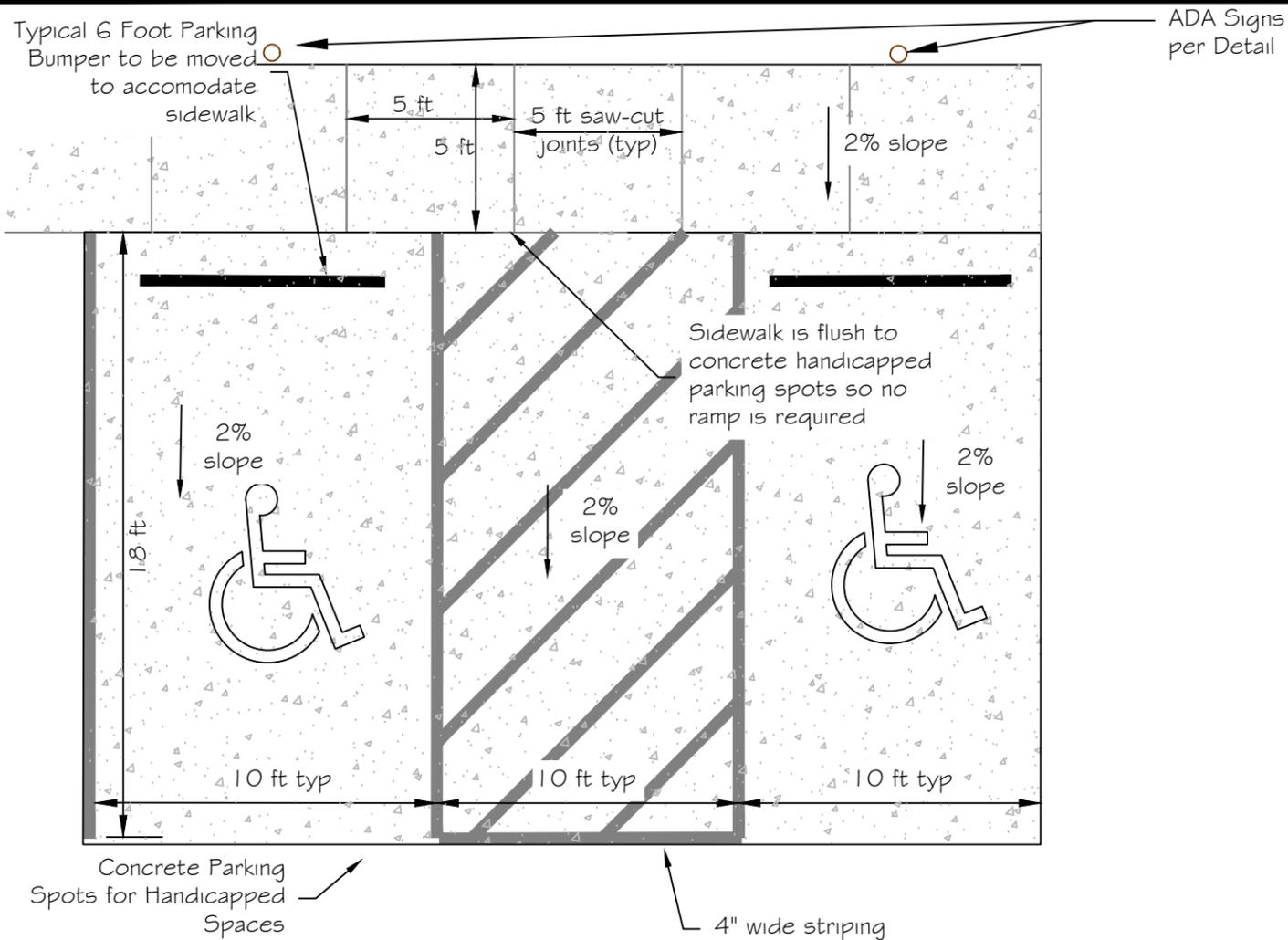
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Site Parking/Vault Toilet Improvements

Somers Beach State Park - Improvements Phase II

SHEET: 7 of 14



Sidewalk and Handicapped Parking Spots Construction Note: Contractor shall construct sidewalk and handicapped parking spots in accordance with detail on page 9 following this page and the dimension detail shown on this page.

Handicapped Spots and Sidewalk Concrete Section Requirements

1. The standard specifications for this work shall conform to the Montana Public Works Standard Specifications, current edition.
2. Site Grading - Existing Gravel Surface Coarse shall be compacted and leveled to prepare for concrete application for handicapped spots shown.
3. Existing Aggregate Surface Course - (MPWSS Section 02235) Existing Aggregate surface course conforms to the MPWSS specification for 0.75" Minus and shall be graded and compacted to 95% as determined by AASHTO T99 or ASTM D698 for asphalt preparation.
4. Proposed Concrete Surface course for Handicapped Parking Spots - 6 inch concrete in conformance with the concrete notes on page 9. Concrete shall be reinforced with #4 bar at 18" OC Each way centered vertically in the slab.

ADA Spots Construction Notes:

1. Pedestrian ramps shall comply with the Americans with Disabilities Act / Accessibility Guidelines for buildings and facilities. This detail is intended to meet the latest Federal, State and Local requirements, and should be modified accordingly if controlling governmental entity requires.
2. The least possible slope shall be used for pedestrian ramps. The maximum slope shall be 1:50 or 2%. The cross slope shall be no greater than 1:50 (2.00%). This slope shall also apply to the handicapped parking spot.
3. Alternate designs and locations shall meet the requirements of the Americans with Disabilities Act / Accessibility Guidelines for buildings and facilities and shall be approved by the public works department prior to start of construction.
4. Pedestrian ramps shall be a minimum of 60 inches wide.
5. Accessible parking spaces shall be indicated by a vertical sign. The signs shall include the International Symbol of Accessibility complying with subsection 703.6.3.1. Such symbol shall be white on a blue background. Signs identifying van parking spaces shall contain the designation "van accessible." The sign may include additional language such as, but not limited to, an indication of the amount of the monetary penalty defined in RCW 46.19.050 for parking in the space without a valid permit. A vertical "no parking" sign shall be erected at the head of each access aisle located adjacent to an accessible parking space. The sign may include additional language such as, but not limited to, an indication of any penalty for parking in an access aisle. Such signs shall be 60 inches (1525 mm) minimum above the floor of the parking space, measured to the bottom of the sign.

Handicapped Ramp Details
Not to Scale

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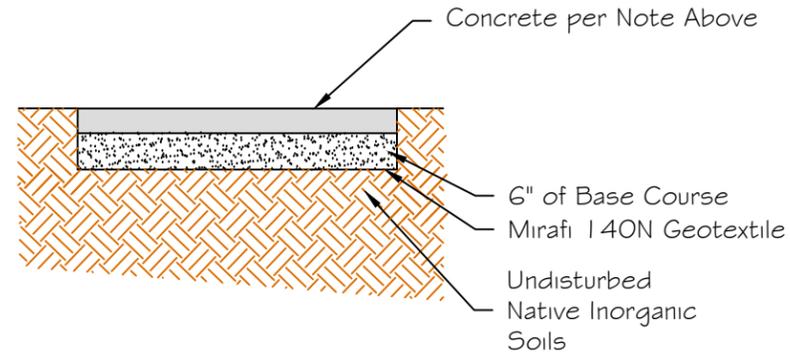
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Handicapped Parking Spot Details
Somers Beach State Park - Phase 2 Improvements Project

Sidewalk and Handicapped Spots Design Detail
Not to Scale

Concrete Sidewalk.....4" for sidewalk and 6" at approaches, per MPWSS
 Sidewalk and Spot Base Course Layer....6" of $\frac{3}{4}$ " Minus Crushed Material at 95% per MPWSS
 Concrete Handicapped Spot.....6" for spots with #4 bars at 18" OC Each Way



Sidewalk Design

Sidewalk Design: Guidelines may be provided based upon the lighter duty details in use by local government bodies (county and cities). These are provided with no direct engineering evaluation of the particular situation or guarantee of suitability. These guidelines are based upon construction methods meeting the MPWSS and the cross section shown in this detail. Reference the MPWSS for full construction information.

General Sidewalk and Handicapped Spot Construction Notes

1. Concrete shall be m-4000 with 3/4" maximum aggregate, minimum 28-day strength of 4000 psi, 6% to 8% air entrainment, and maximum slump of 4".
2. Contraction joints shall be spaced the approximate same dimension as the width, but not to exceed six feet. contraction joints shall be constructed by sawing or scoring. a tool shall be used which will leave the edges rounded and destroy aggregate interlock for the specified minimum depth. Contraction joints shall be a minimum of 1/4 of the total depth of the concrete.
3. 1/2" expansion joint material shall be placed at approximate intervals of 45 feet.
4. All edges and joints shall be rounded with an edging tool with a minimum 1/4" radius.
5. Six inches of base material is required for the sidewalk foundation. The base material shall be crushed gravel compacted to 95% per AASHTO T-99.

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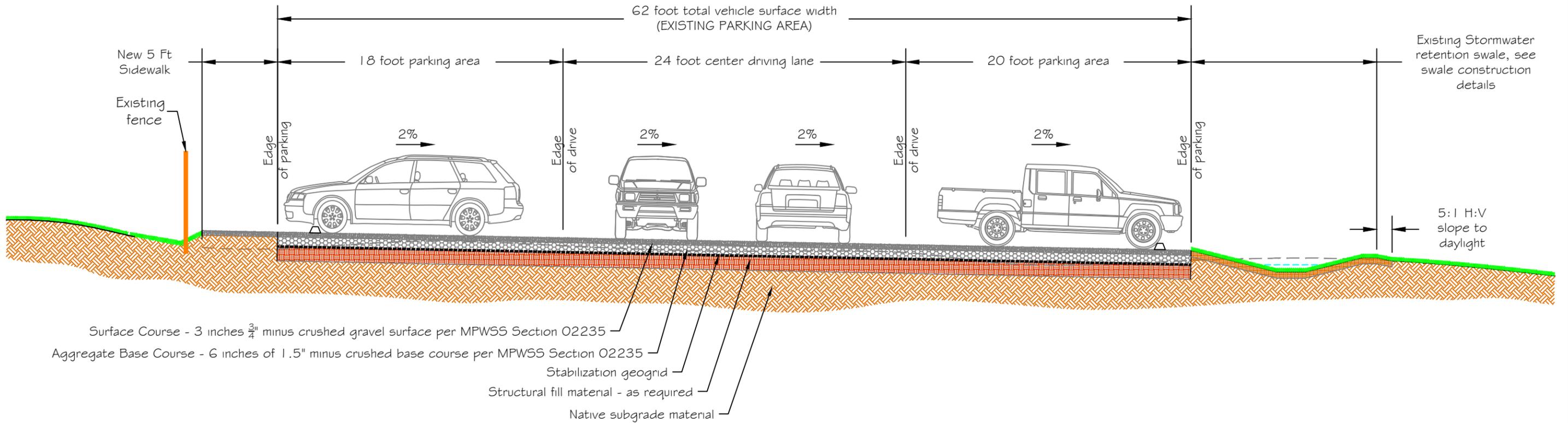
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Handicapped Sidewalk/Parking Details
 Somer's Beach State Park - Interim Improvements Project

Road With Parking Both Sides - Cross Section
Not to Scale



Road Cross Section Requirements (EXISTING)

- The standard specifications for this work shall conform to the Montana Public Works Standard Specifications, current edition.
- Site Stripping - (MPWSS Section O2230) The roadbed site shall be prepared by the removal of all topsoil, root zone and any loose, soft, frozen or otherwise unsuitable materials. Depth of necessary removal will vary from 4" to 8". Engineering field review after stripping shall be required. Excavated materials shall not be suitable for structural backfill.
- Subgrade - (MPWSS Section O2230) Subgrade shall be undisturbed native. If disturbed then scarify 6" deep and compact to 95% of maximum laboratory dry density per AASHTO T99 or ASTM D698.
- Structural Fill Soils Sourced On-Site - (MPWSS Section O2230) Non-organic on-site soils, generally being Silt / Silty-Clay / Silty-Sand, are suitable for use as general fill under drives and parking areas if embanked as required by the MPWSS earthwork section. Fill below drives and parking areas shall be compacted to 95% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ± 2 from optimum. Fill below landscaped areas shall be compacted to 90% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ± 2 from optimum.
- Structural Fill Soils Sourced Off-Site - (MPWSS Section O2230) Fill below drives and parking areas shall generally be compacted to 95% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ± 3 from optimum. However, samples shall be submitted to a geotechnical laboratory for verification of this standard, and revision as necessary.
- Stabilization geogrid shall be Tensor TX5 or engineer approved equal, installed per manufacturer's specifications.
- Aggregate Base Course - (MPWSS Section O2235) Aggregate base course shall conform to the MPWSS specification for 1.5" Minus and be compacted to 95% as determined by AASHTO T99 or ASTM D698.
- Aggregate Surface Course - (MPWSS Section O2235) Aggregate surface course shall conform to the MPWSS specification for 0.75" Minus and be compacted to 95% as determined by AASHTO T99 or ASTM D698.

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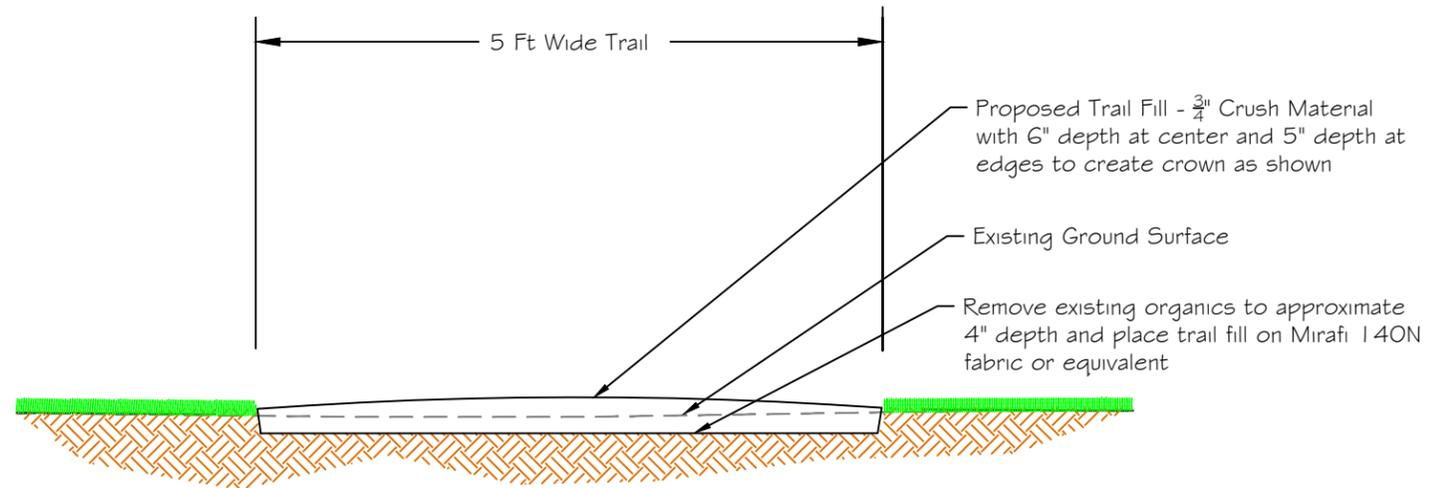
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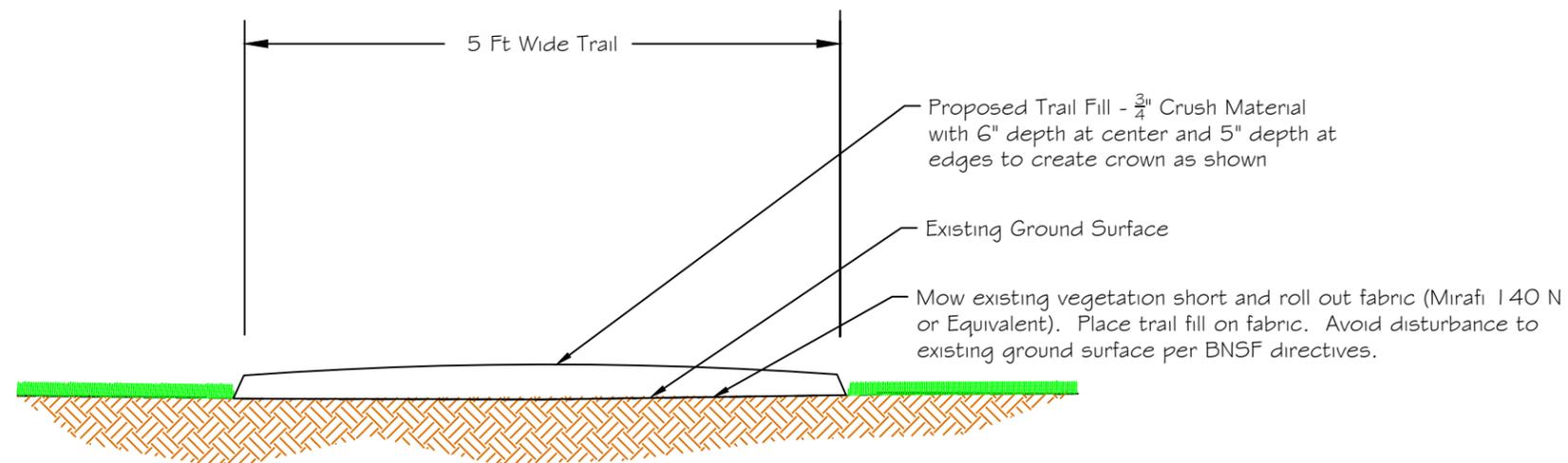
Existing Road/New Sidewalk Details
Somer's Beach State Park - Phase 2 Improvements Project

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Typical Trail Section for FWP PROPERTY - Cross Section
Not to Scale



Typical Trail Section for BNSF Trail - ALTERNATE OPTION - Cross Section
Not to Scale



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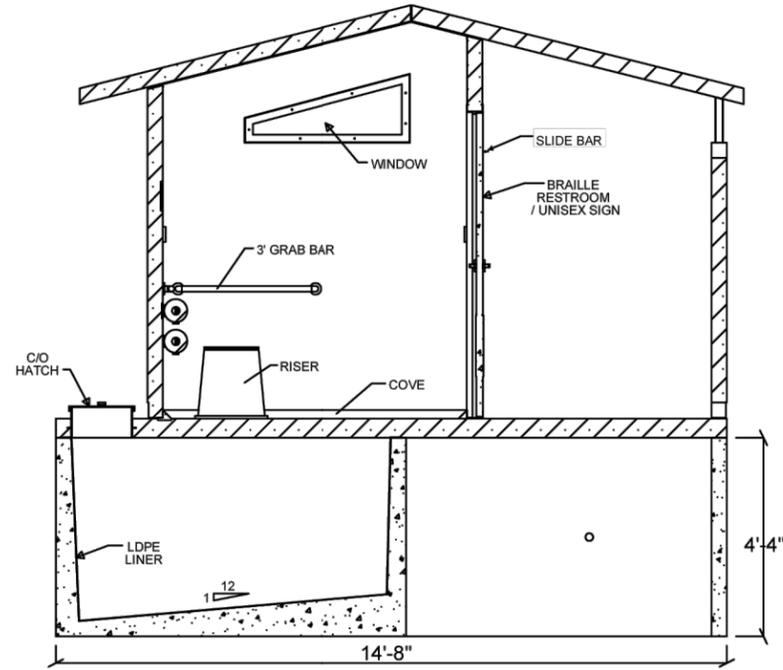
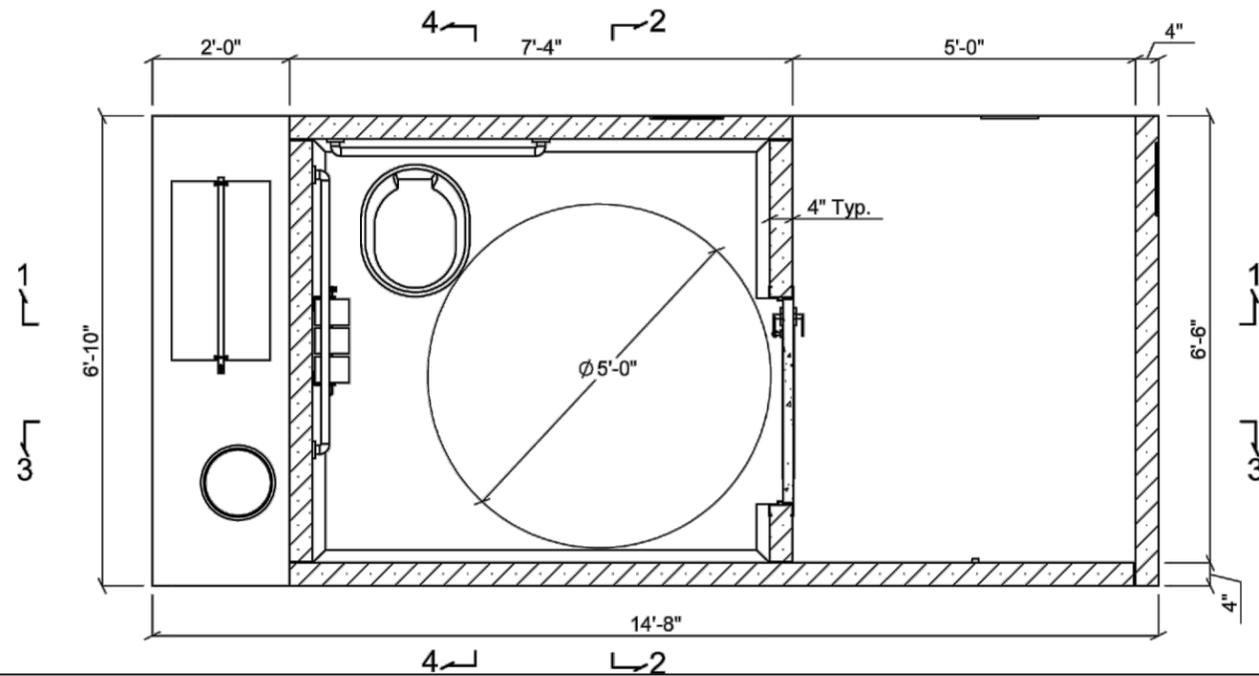
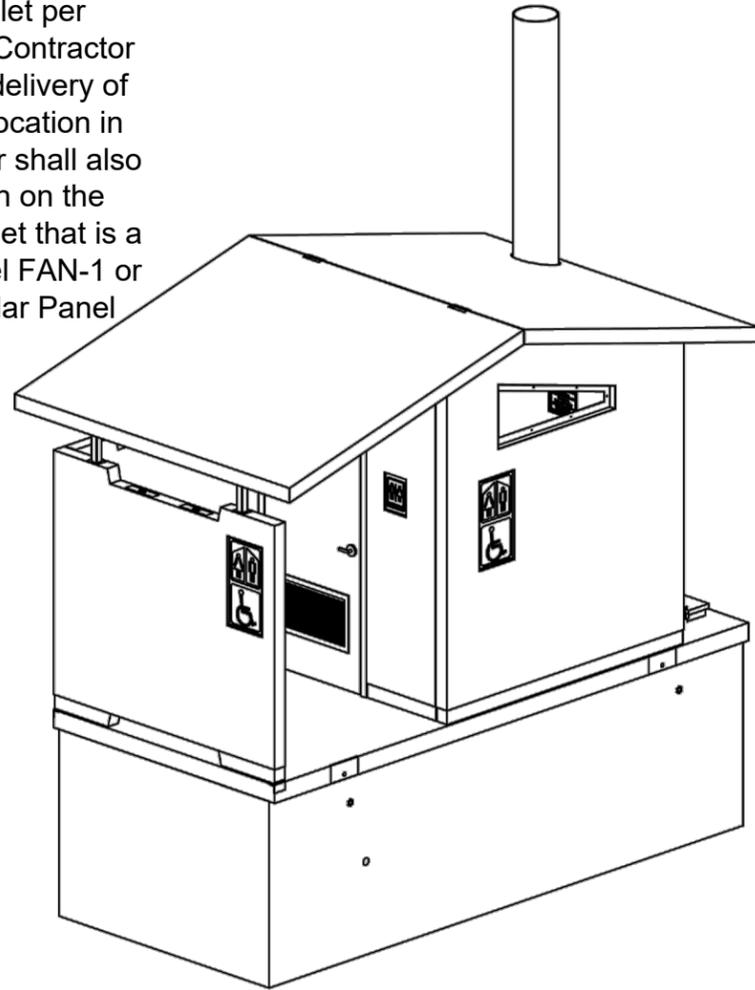
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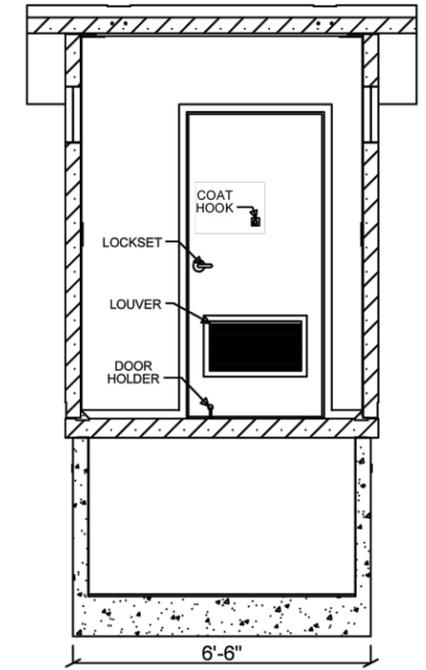
New Trail Details

Somer's Beach State Park - Phase 2 Improvements Project

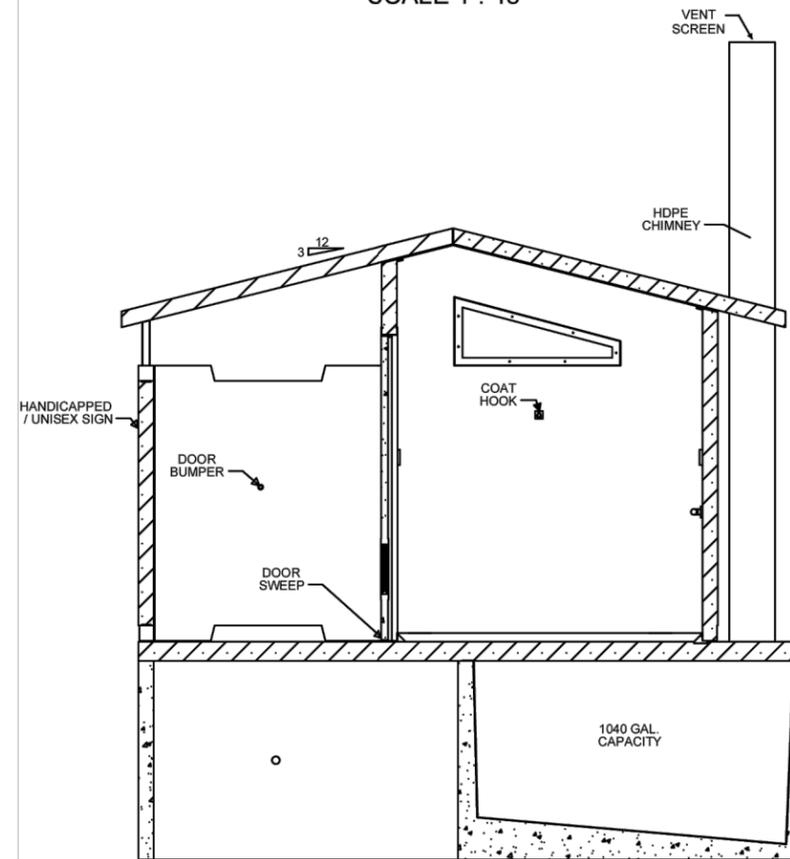
FWP is providing vault toilet per attached specifications. Contractor shall install and arrange delivery of vault toilet from Precast location in Missoula, MT. Contractor shall also install a solar powered fan on the vent stack of the vault toilet that is a Romtec Vent Stack Model FAN-1 or approved equivalent. Solar Panel shall face south.



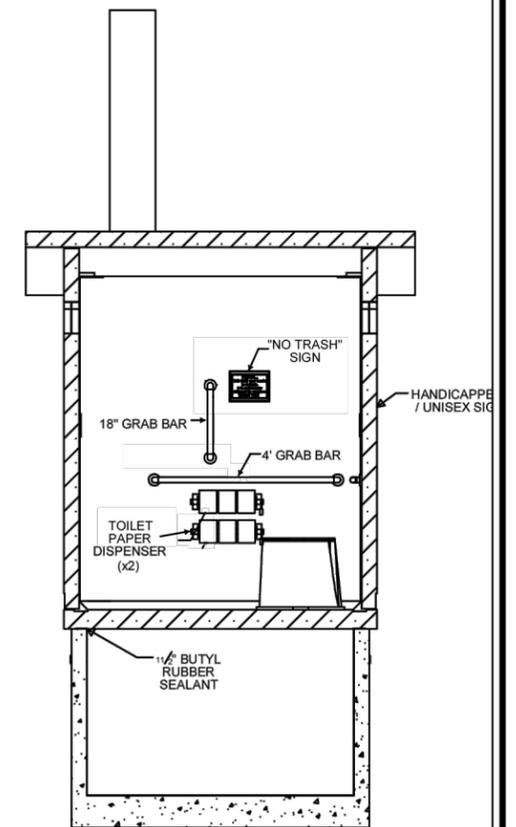
SECTION 1-1
SCALE 1 : 48



SECTION 2-2
SCALE 1 : 48



SECTION 3-3
SCALE 1 : 48



SECTION 4-4
SCALE 1 : 48

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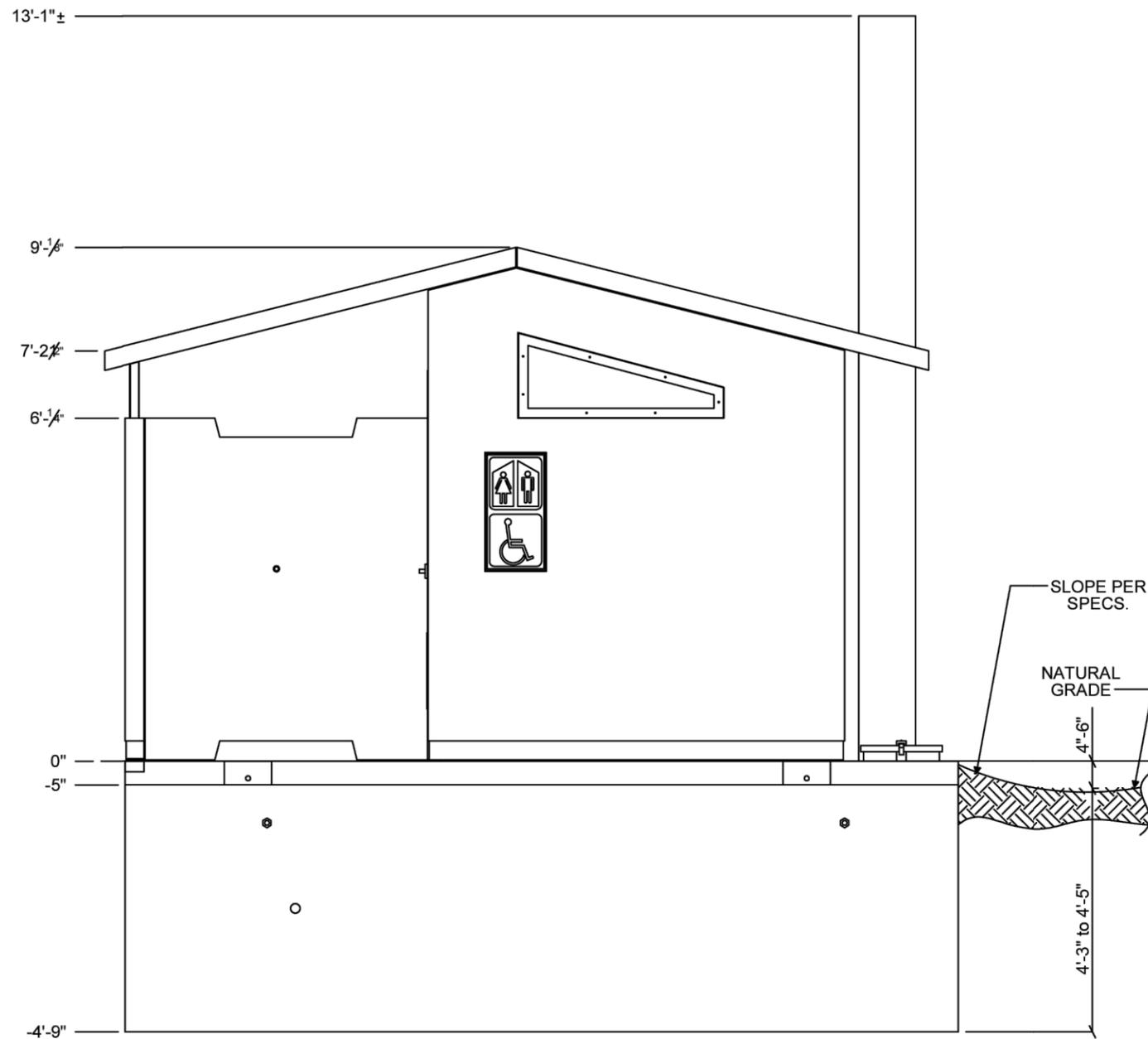
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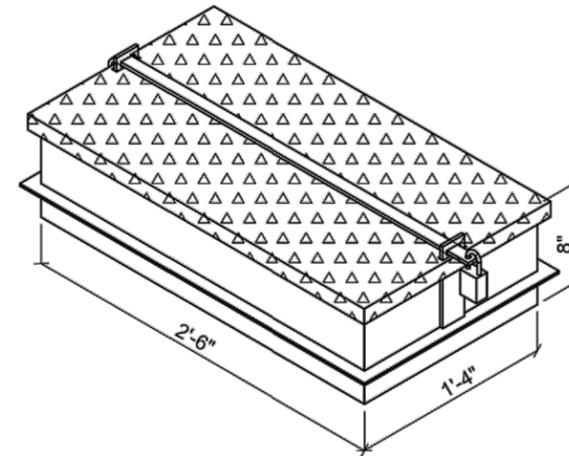
New Trail and Boardwalk Details

Somer's Beach State Park - Phase 2 Improvements Project

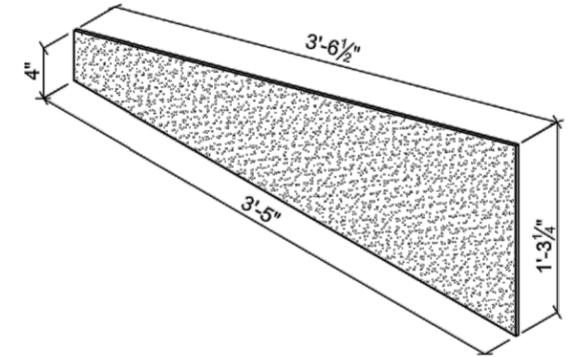
SHEET: 12
of
14



FWP is providing vault toilet per attached specifications. Contractor shall install and arrange delivery of vault toilet from Precast location in Missoula, MT. Contractor shall also install a solar powered fan on the vent stack of the vault toilet that is a Romtec Vent Stack Model FAN-1 or approved equivalent. Solar Panel shall face south.



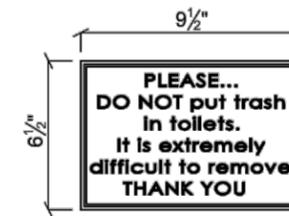
CLEANOUT HATCH



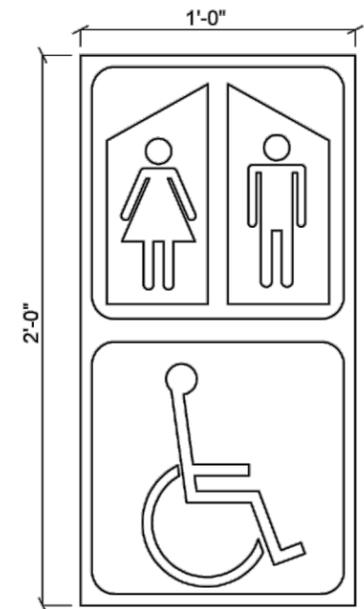
POLYCARBONATE WINDOW



BRaille RESTROOM SIGN



"NO TRASH" SIGN



"HANDICAPPED / UNISEX" SIGN

M Nerdig 11/06/2024
DRAWN BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:



R Smith 11/06/2024
CHECKED BY: DATE:

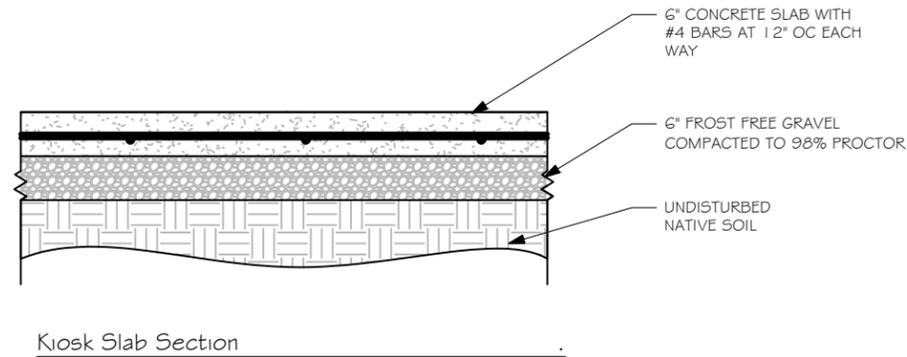
APPROVED BY: DATE:

APPROVED BY: DATE:

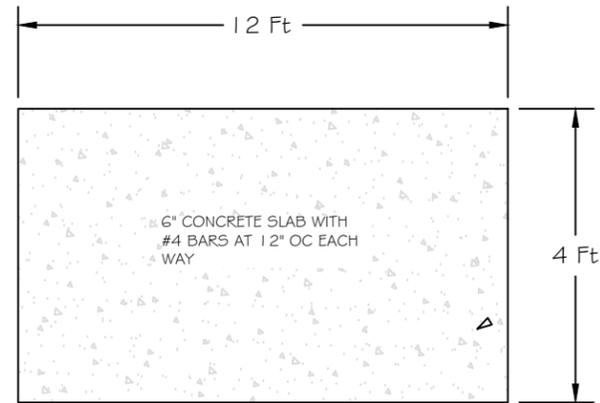
Vault Toilet Details

Somer's Beach State Park - Phase 2 Improvements Project

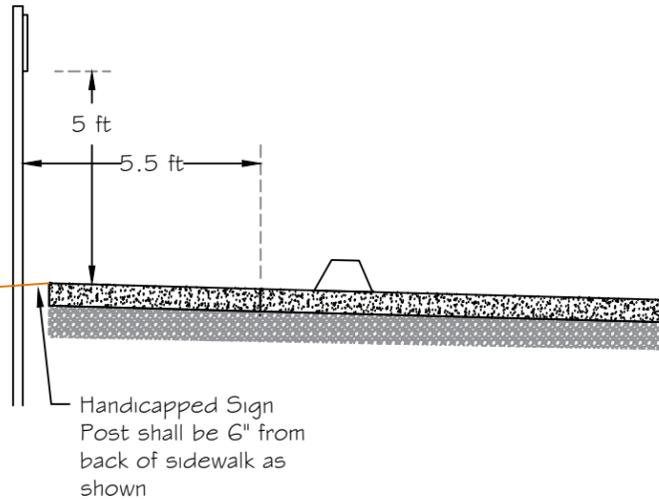
Kiosk Slab Base Details
Not to Scale



Kiosk Slab Plan View



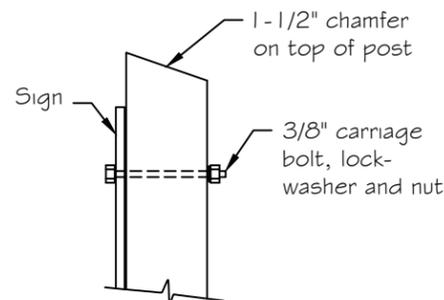
Handicapped Spot Signage Installation Detail
Not to Scale



Sign Post Detail
Not to Scale

Signpost Specifications

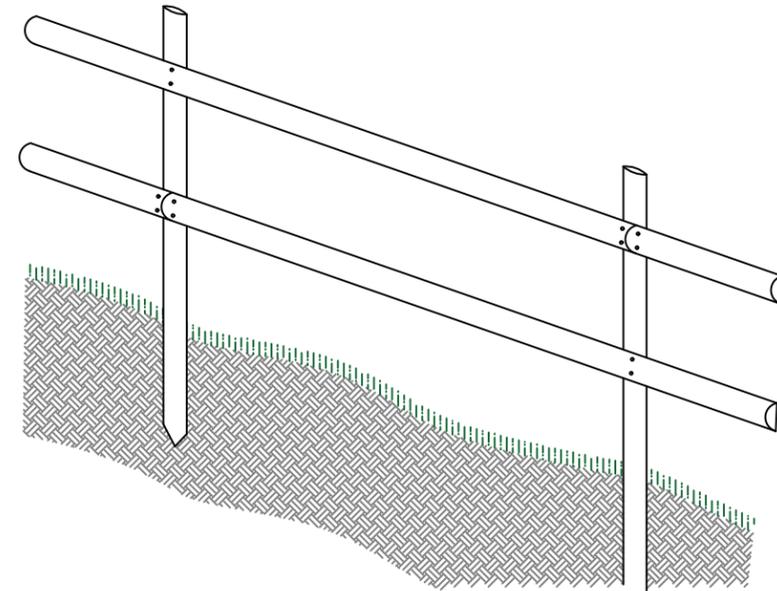
1. Use pressure treated timbers for all sign posts.
2. Coat all posts with preservative for all drilled holes and cut surfaces.
3. Use cadmium plated or galvanized steel for all bolts, nuts & washers.
4. Place bolts to not interfere with sign lettering. Paint bolt heads to match sign.
5. Center sign post panels to post, overhang panels 3" beyond posts for double post installations. Extend all posts 3" above sign panels.
6. Post shall embed into ground a minimum of 36".



Two-Rail Wooden Fence Installation Details
Not to Scale

Fencing Notes:

- Posts shall be nominal 6" diameter 6 ft long with CCA preservative treatment
- Posts shall be tan / brown in color
- Posts shall be embedded 24" into ground and have 48" of exposure
- Posts shall be installed on a typical ten (10) foot center to center spacing
- Post top shall be cut at 30° angle toward rear of fence, then coated with CCA preservative treatment
- Rails shall be 4 inch diameter 10.5 foot long with CCA treatment
- Top rail shall be installed to leave at least 6" of exposed post above rail
- Bottom rail shall be installed 18" center to center below top rail
- Rails shall be installed on parking lot side of posts
- Rails shall be face screwed to post with 2 screws (in pre-drilled hole) at each end butted together.
- Rails shall alternate butt joints from post to post
- Cut rail ends shall be coated with CCA preservative treatment
- Rails shall be tan / brown in color. Fence ends terminated at last post with no slope or corner
- Screws shall be exterior grade at least 6" in length
- Fence clear opening for trail shall be 36 inches



M Nerdig 11/26/2024
DRAWN BY: DATE:

R Smith 11/26/2024
CHECKED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:



Fence, Sign. and Kiosk Slab Details
Somers Beach State Park - Phase 2 Improvements Project