

# Montana Fish, Wildlife & Parks

## SPECIFICATIONS FOR WORK SPECIAL PROVISIONS

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## 1.01 PROJECT DESCRIPTION

- A. The Project involves construction work associated with:

**Tongue River Reservoir State Park Diversified Lodging  
Fish, Wildlife & Parks (FWP) project #7216211  
Located in Big Horn County, MT**

- B. The project includes site work (excavation/grading) of an access road and roundabout. As well as prefabricated cabins and pit privy. Reclamation of construction related disturbed areas will follow completion of the site work.

## 2.01 PROJECT RELATED CONTACTS

Project contacts are designated as follows:

<b>Owner:</b>	Montana FWP 1420 E. Sixth Ave. PO Box 200701 Helena, MT 59620-0701
<b>FWP Project Representative:</b>	Randi Rognlie, Project Manager FWP Project Manager 1522 9 <sup>th</sup> Avenue Helena, MT 59620 406-841-4019 (wk) 406-431-9797 (cell) 406-841-4004 (fax)

## 3.01 SITE INSPECTION

- A. All Bidders should satisfy themselves as to the construction conditions by personal examination of the site described in this document. Bidders are encouraged to make any investigations necessary to assess the nature of the construction and the difficulties to be encountered, see General Conditions, Article 3.

## 4.01 SOILS INFORMATION

- A. Geotechnical investigation work has not been done for this Project. It is the responsibility of the Bidders to conduct all investigations and determine the soil type and digging conditions that may be encountered with this Project prior to bid preparation, see General Conditions, Article 3.

## 5.01 PROJECT REPRESENTATIVE, INSPECTIONS, AND TESTING

- A. The Contractor's work will be periodically tested and observed to ensure compliance with the Contract Documents. Complete payment will not be made until the Contractor has demonstrated that the work is complete and has been performed as required. If the Project Representative detects a discrepancy between the work and the requirements of the Contract Documents at any time, up to and including final inspection, such work

will not be completely paid for until the Contractor has corrected the deficiency, see General Conditions, Article 9.

- B. The Project Representative will periodically monitor the construction of work to determine if the work is being performed in accordance with the contract requirements. The Project Representative does not have the authority or means to control the Contractor's methods of construction. It is, therefore, the Contractor's responsibility to utilize all methods, equipment, personnel, and other means necessary to assure that the work is installed in compliance with the Drawings and Specifications, and laws and regulations applicable to the work. Any discrepancies noted shall be brought to the Contractor's attention, who shall immediately correct the discrepancy. Failure of the Project Representative to detect a discrepancy will not relieve the Contractor of his ultimate responsibility to perform the work as required, see General Conditions, Article 3.
- C. The Contractor shall inspect the work as it is being performed. Any deviation from the Contract requirements shall be immediately corrected. Prior to any scheduled observation by the Project Representative, the Contractor shall again inspect the work and certify to the Project Representative that he has inspected the work and it meets the requirements of the Contract Documents. The Project Representative may require uncovering of work to verify the work was installed according to the contract documents, see General Conditions, Article 12.
- D. The work will be subject to review by the Project Representative. The results of all such observations, and all contract administration, shall be directed to the Contractor only through the Project Representative.

5.01.1 Services Required by the Contractor. The Contractor shall provide the following services:

- A. Any field surveys to establish locations, elevations, and alignments as stipulated on the Contract Documents. FWP reserves the right to set preliminary construction staking for the project. The Contractor is responsible to notify FWP for any construction staking discrepancies.
- B. Preparation and certification of all required shop drawings and submittals as described in the General Conditions, Article 3.
- C. All testing requiring the services of a laboratory to determine compliance with the Contract Documents shall be performed by an independent commercial testing laboratory acceptable to the Project Representative. The laboratory shall be staffed with experienced technicians properly equipped, and fully qualified to perform the tests in accordance with the specified standards.
- D. Preparation and submittal of a construction schedule, including submittals, see General Conditions, Article 3. The schedule shall be updated as required, as defined in the Contract Documents.

- E. All Quality Control testing as required by the Contractor's internal policies.
  - F. All Quality Assurance testing and/or re-testing as stated in the Contract Documents, see General Conditions, Article 13.
- 5.01.2 Services Provided by the Owner. The Owner shall provide the following services at no cost to the Contractor except as required for retests as defined in the Contract Documents.
- A. The Project Representative may check compaction of backfill and surfacing courses using laboratory testing submittal information supplied by the Contractor. These tests are to determine if compaction requirements are being fulfilled in accordance with the Contract Documents. It is ultimately the responsibility of the Contractor to ensure that this level of compaction is constant and met in all locations.
  - B. Any additional Quality Assurance testing deemed appropriate by the Owner, at the Owner's expense.

## **6.01 ENGINEERING INTERPRETATIONS**

- A. Timely Engineering decisions on construction activities or results have an important bearing on the Contractor's schedule. When engineering interpretation affects a plan design or specifications change, it should be realized that more than 24 hours may be required to gain the necessary Owner participation in the decision process including time for formal work directive or change order preparation as required.

## **7.01 REJECTED WORK**

- A. Any defective work or nonconforming materials or equipment that may be discovered at any time prior to the expiration of the warranty period, shall be removed and replaced with work or materials conforming to the provisions of the Contract Documents, see General Conditions, Article 12. Failure on the part of the Project Representative to condemn or reject bad or inferior work, or to note nonconforming materials or equipment on the Contractor's submittals, shall not be construed to imply acceptance of such work. The Owner shall reserve and retain all its rights and remedies at law against the Contractor and its Surety for correction of any and all latent defects discovered after the guarantee period (MCA 27-2-208).
- B. Only the Project Representative will have the authority to reject work which does not conform to the Contract Documents.

## **8.01 UTILITIES**

- A. The exact locations of existing utilities that may conflict with the work are not precisely known. It shall be the Contractor's responsibility to contact the owners of the respective utilities and arrange for field location services. **One Call Locators, 1-800-424-5555**
- B. The Contract Documents may show utility locations based on limited field observation and information provided to the Project Representative by others. **The Project**

**Representative cannot guarantee their accuracy.** The Contractor shall immediately notify the Project Representative of any discrepancies with utility locations as shown on the Contract Drawings and/or bury depths that may in any way affect the intent of construction as scoped in these specifications.

- C. There will be no separate payment for exploratory excavation required to locate underground utilities.

8.01.1 Notification. The Contractor shall contact, in writing, all public and private utility companies that may have utilities encountered during excavation. The notification includes the following information:

- a. The nature of the work that the Contractor will be performing.
- b. The time, date, and location that the Contractor will be performing work that may conflict with the utility.
- c. The nature of work that the utility will be required to perform such as moving a power pole, supporting a pole or underground cable, etc.
- d. Requests for field location and identification of utilities.

A copy of the letter of notification shall be provided to the Project Representative. During the course of construction, the Contractor shall keep the utility companies notified of any change in schedule, or nature of work that differs from the original notification.

8.01.2 Identification. All utilities that may conflict with the work shall be the Contractor's responsibility to locate before any excavation is performed. Field markings provided by the utility companies shall be preserved by the Contractor until actual excavation commences. All utility locations on the Drawings should be considered approximate and should be verified in the field by the Contractor. The Contractor shall also be responsible for locating all utilities that are not located on the Drawings.

The design survey did not include identifying existing utilities. It is the Contractor's responsibility to properly identify any existing utilities. The Drawings provided do not show any existing utility locations.

8.01.3 Removal or Relocation of Utilities. All electric power, street lighting, gas, telephone, and television utilities that require relocation will be the responsibility of the utility owner. A request for extending the specified contract time will be considered if utility owners cause delays.

8.01.4 Public Utilities. Water, sewer, storm drainage, and other utilities owned and operated by the public entities shall, unless otherwise specifically requested by the utility owner, be removed, relocated, supported, or adjusted as required by the Contractor at the Contractor's expense. All such work shall be in accordance with these Contract Documents, or the Owner's Standard Specifications or written instructions when the work involved is not covered by these Specifications.

- 8.01.5 Other Utilities. Utilities owned and operated by private individuals, railroads, school districts, associations, or other entities not covered in these Special Provisions shall, unless otherwise specifically requested by the utility owner, be removed, relocated, supported or adjusted as required by the Contractor at the Contractor's expense. All work shall be in accordance with the utility owner's directions, or by methods recognized as being the standard of the industry when directions are not given by the owner of the utility.
- 8.01.6 Damage to Utilities and Private Property. The Contractor shall protect all utilities and private property and shall be solely responsible for any damage resulting from his construction activities. The Contractor shall hold the Owner and Project Representative harmless from all actions resulting from his failure to properly protect utilities and private property. All damage to utilities shall be repaired at the Contractor's expense to the full satisfaction of the owner of the damaged utility or property. The Contractor shall provide the Owner with a letter from the owner of the damaged utility or property stating that it has been repaired to the utility owner's full satisfaction.
- 8.01.7 Structures. The Contractor shall exercise every precaution to prevent damage to existing buildings or structures in the vicinity of his work. In the event of such damages, he shall repair them to the satisfaction of the owner of the damaged structure at no cost to the Owner.
- 8.01.8 Overhead Utilities. The Contractor shall use extreme caution to avoid a conflict, contact, or damage to overhead utilities, such as power lines, streetlights, telephone lines, television lines, poles, or other appurtenances during the course of construction of this project.
- 8.01.9 Buried Gas Lines. The Contractor shall provide some means of overhead support for buried gas lines exposed during trenching to prevent rupture in case of trench caving.
- 8.01.10 Pavement Removal. Where trench excavation or structure excavation requires the removal of curb and gutter, concrete sidewalks, or asphalt or concrete pavement, the pavement or concrete shall be cut in a straight line parallel to the edge of the excavation by use of a spade- bitted air hammer, concrete saw, colter wheel, or similar approved equipment to obtain a straight, square clean break. Pavement cuts shall be 2 feet wider than the actual trench opening.
- 8.01.11 Survey Markers and Monuments. The Contractor shall use every care and precaution to protect and not disturb any survey marker or monuments, such as those that might be located at lot or block corners, property pins, intersection of street monuments or addition line demarcation. Such protection includes markings with flagged high lath and close supervision. No monuments shall be disturbed without prior approval of the Project Representative. Any survey marker or monument disturbed by the Contractor during the construction of the project shall be replaced at no cost to the Owner by a licensed land surveyor.
- 8.01.12 Temporary Utilities. The Contractor shall provide all temporary electrical, lighting, telephone, heating, cooling, ventilating, water, sanitary, fire protection, and other

utilities and services necessary for the performance of the work. All fees, charges, and other costs associated therewith shall be paid for by the Contractor.

#### **9.01 CONSTRUCTION SAFETY**

- A. The Contractor shall be solely and completely responsible for conditions of the jobsite, including safety of all persons (including employees and subcontractors) and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to U.S. Department of Labor (OSHA), and all other applicable federal, state, county, and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent requirement shall be followed. The Contractor's failure to thoroughly familiarize himself with the aforementioned safety provisions shall not relieve them from compliance with the obligations and penalties set forth therein, see General Conditions, Article 10.

#### **10.01 CONSTRUCTION LIMITS AND AREAS OF DISTURBANCE**

- A. Construction Limits. Where defined limits of disturbance, construction easements or property lines, are not specifically called out on the Contract Documents, limit the construction disturbance to ten (10) feet, when measured from the edge of the slope stake grading, or to the adjacent property line, whichever is less. Disturbance and equipment access beyond this limit is not allowed without the written approval of both the Owner and the Owner of the affected property. If so approved, disturbance beyond construction limits shall meet all requirements imposed by the landowner; this includes existing roads used and/or improved as well as the construction of new access roads. Special construction, reclamation, or post-construction reclamation or other closure provisions required by the landowner on access roads beyond the construction limits shall be performed by the Contractor at no additional cost to the Owner.
- B. Areas of Disturbances. Approved areas of disturbance are those areas disturbed by construction activities within the construction limits and along designated or approved access routes. Such areas may require reclamation and revegetation operations, including grading to the original contours, top soiling with salvaged or imported topsoil, seeding, fertilizing, and mulching as specified herein. Other areas that are disturbed by the Contractor's activities outside of the limits noted above will be considered as site damage or unapproved areas of disturbance, see General Conditions, Articles 3 and
- C. This includes areas selected by the Contractor outside the defined construction limits for mobilization, offices, equipment, or material storage.

#### **11.01 DECONTAMINATE CONSTRUCTION EQUIPMENT**

- A. Power wash all construction equipment entering the project site to prevent the spread of noxious weeds and aquatic invasive species. This applies to all FWP projects, whether individual construction permits specifically address cleaning of equipment.

## **12.01 TREE PROTECTION AND PRESERVATION**

- A. The Contractor and the Owner shall individually inspect all trees within the project construction limits prior to construction. The Owner shall determine which trees are to be removed and which trees are to be preserved. Construction of the grading, utilities and various roadway facilities must not significantly damage the tree's root system or hinder its chances for survival. Reasonable variations from the Contract Documents, as directed by the Project Representative, may be employed to ensure the survival of trees.

## **13.01 CONSTRUCTION SURVEYS**

- A. The Contractor will be responsible for all layout and construction staking utilizing the Project Representative's existing control and coordinate data for the project. Dimensions and elevations indicated in layout of work shall be verified by the Contractor. Discrepancies between Drawings, Specifications, and existing conditions shall be referred to the Project Representative for adjustment before work is performed. The Project Representative may set location and grade stakes prior to construction; however, it is ultimately the responsibility of the Contractor to check and verify all construction staking for the project.
- B. Existing survey control (horizontal and vertical) has been set for use in the design and ultimately the construction of these improvements. A listing of the coordinates and vertical elevation for each of these control points are included in the project drawings.
- C. The Contractor will be responsible for preserving and protecting the survey control until proper referencing by the Contractor has been completed. Any survey control obliterated, removed, or otherwise lost during construction will be replaced at the Contractor's expense.
- D. Contractor shall be aware of property pins and survey monuments. Damage to these pins will require replacement of such by a registered land surveyor at no cost to the owner.
- E. The Contractor shall provide construction staking from the Contractor's layouts and the control points. Contractor's construction staking includes at a minimum:
  - 1. Slope stakes located at critical points as determined by the Project Representative.
  - 2. Location and grade stakes for prefabricated cabins and pit privy.
  - 3. Location and grade stakes for drainage features.
  - 4. Location stakes for roadside safety items, permanent and temporary traffic control, and misc. items as determined by the Project Representative.
- F. Original field notes, computations and other records take by the Contractor for the purpose of quantity and progress surveys shall be furnished promptly to the Project Representative and shall be used to the extent necessary in determining the proper amount of payment due to the Contractor.



#### **14.01 MATERIAL SOURCES AND CONSTRUCTION WATER**

- A. The Contractor shall be responsible for locating all necessary material sources, including aggregates, earthen borrow and water necessary to complete the work. The Contractor shall be responsible for meeting all transportation and environmental regulations as well as paying any royalties. The Contractor shall provide the Project Representative with written approvals of landowners from whom materials are to be obtained, prior to approval.
- B. The Contractor may use materials from any source, providing the materials have been tested through representative samples and will meet the Specifications.

#### **15.01 MATERIALS SALVAGE AND DISPOSAL**

- A. Notify the Owner for any material salvaged from the project site not identified in the Contract Documents. The Owner reserves the right to maintain salvaged material at the project site, compensate the Contractor for relocation of salvaged material, or agreed compensation to Owner for material salvaged by the Contractor.
- B. Haul and waste all waste material to a legal site and obey all state, county, and local disposal restrictions and regulations.

#### **16.01 STORED MATERIALS**

- A. Contractor shall use an approved storage area for materials. Materials and/or equipment purchased by the Contractor may be compensated on a monthly basis. For compensation, provide the Project Representative invoices for said materials, shop drawings and/or submittals for approval, and applicable insurance coverage, see General Conditions, Article 9.

#### **17.01 STAGING AND STOCKPILING AREA**

- A. Contractor shall use staging and stockpiling sites for to facilitate the project as approved by the Owner. Contract Documents may show approved staging and stockpiling locations. Notify Owner within 24 hours for approval of staging and stockpiling sites not shown on the Contract Drawings.

#### **18.01 SECURITY**

- A. The Contractor shall provide all security measures necessary to assure the protection of equipment, materials in storage, completed work, and the project in general.

#### **19.01 CLEANUP**

- A. Cleanup for each item of work shall be fully completed and accepted before the item is considered final. If the Contractor fails to perform cleanup within a timely manner the Owner reserves the right to withhold final payment.
- B. Review these Contract Documents for additional Final Cleanup specifications for specific measures, associated with Contractor responsibilities and final payment.

## **20.01 ACCESS DURING CONSTRUCTION**

- A. Provide access to all public and private roadways and approaches within the project throughout the construction period. Coordinate with Tongue River Reservoir State Park's Manager for any access issues.

## **21.01 CONSTRUCTION TRAFFIC CONTROL**

- A. The Contractor is responsible for providing safe construction and work zones within the project limits by implementing the rules, regulations, and practices of the Manual on Uniform Traffic Control Devices, current edition.

## **22.01 SANITARY FACILITIES**

- A. Provide on-site toilet facilities for employees of Contractor and Sub-Contractors and maintain in a sanitary condition. Contractor may use Campground sanitary facility for workers with Tongue River Reservoir State Park's permission.
- B. Contractor responsible for cleaning (not pumping) TRRSP Sanitary Facilities, if used.

## **23.01 CONTRACT CLOSEOUT**

- A. The Contractor's Superintendent shall maintain at the project site, a "Record Set of Drawings" showing field changes, as-built elevations, unusual conditions encountered during construction, and such other data as required to provide the Owner with an accurate "as constructed" set of record drawings. The Contractor shall furnish the "Record Set" to the Project Representative following the Final Inspection of the Project.

The Contractor's final payment will not be processed until the "Record Set" of drawings are received and approved by the Project Representative.

## **24.01 MEASUREMENT AND PAYMENT**

- A. Review these Contract Documents for additional Measurement and Payment specifications for definitions. Quantities are listed on the Bid Proposal for Payment Items. Additional material quantities, volumes, and measurements may be shown on the Contract Document drawings and/or specifications.
- B. Unit Price quantities and measurements shown on the Bid Proposal are for bidding and contract purpose only. Quantities and measurements supplied, completed for the project, and verified by the Project Representative shall determine payment. Each unit price will be deemed to include an amount considered by the Contractor to be adequate to cover Contractor's overhead and profit for each bid item.
- C. The Owner or Contractor may make a Claim for an adjustment in Contract Unit Price if the quantity of any item of Unit Price Work performed by the Contractor differs materially and/or significantly (increase or decrease by 50%) from the estimated quantity indicated on the Bid Proposal.
- D. Lump sum bid item quantities will not be measured. Payment for the lump sum bid proposal items will be paid in full amount listed on the Bid Proposal when accepted by the Project Representative, unless specified otherwise.

## **Montana Fish, Wildlife & Parks**

### **SPECIFICATIONS FOR WORK**

- SECTION 011000 - Summary
- SECTION 015000 - Temporary Facilities and Controls
- SECTION 02221 - Clearing/Grubbing and Topsoil Salvaging/Replacing
- SECTION 02230 - Excavation, Backfill and Compaction
- SECTION 02110 - Erosion and Sedimentation Control
- SECTION 00235 - Crushed Gravel Surfacing and Leveling Course
- SECTION 02725 - Culvert Installation
- SECTION 02910 - Revegetation
  
- SPECIAL PROVISION 01 - Prefabrication Structures (2-Room Cabin) Installation
- SPECIAL PROVISION 01 - Sealed (Vault) Pit Privy Installation

## **SECTION 011000 - SUMMARY**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

##### **A. Section Includes:**

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Coordination with occupants.
5. Work restrictions.
6. Specification and drawing conventions.
7. Miscellaneous provisions.

##### **B. Related Requirements**

- C. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities

#### **2.01 PROJECT INFORMATION**

- A. Project Identification: Tongue River Reservoir State Park Diversified Lodging Project #7216211

##### **1. Project Location:**

Tongue River Reservoir State Park  
Big Horn County, MT  
Latitude/Longitude: (45.12059 -106.78563)

- B. Owner: State of Montana Fish Wildlife & Parks

##### **1. Owner's Representative:**

Randi Rognlie, Project Manager  
State of Montana Fish,  
Wildlife and Parks Design & Construction Bureau  
1522 Ninth Avenue Helena, Montana  
Phone: (406) 841-4009  
Cell: 406-431-3755

## WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. The work consists of site grading for site preparation for installation of three prefabricated cabins and a single pit privy. Work also includes the construction of an access road and installation of culvert. The installation of a pit privy and the installation of two or three prefabricated cabins will also be completed. The final number of cabins will depend on the bid price for the cabins.
2. All work associated with the lodging project and included in these specifications shall be considered incidental, including but not limited to site prep, gravel for cabin pads, culvert installation, any fasteners or other material necessary for cabin completion, tree limbing or removal as needed, clean up and associated work.
3. It is the contractor's responsibility to confirm dimensions and layout for quantifying materials.

B. Type of Contract.

1. Project will be constructed under a single prime contract.

### 1.4 ACCESS TO SITE

- A. General: Contractor shall have limited use of project site for construction operations as indicated by requirements of this Section.
- B. Staging Area: Designated area for Contractor parking and material storage is within the limits of the diversified lodging area of the Tongue River Reservoir State Park or as otherwise approved by Tongue River Reservoir State Park Management.
- C. Use of Site: Limit use of Project site to work in areas of the diversified lodging units. Do not disturb portions of Project site beyond areas in which the Work is indicated.
1. Keep the access and campground driveway entrances clear and available to Owner, Owner's employees, the public, and emergency vehicles at all times, except for the day of delivery of the lodging units. Coordinate the day of delivery of the lodging units with the Tongue River State Park Manager. Cabin delivery may only occur on Tuesdays, Wednesdays or Thursdays. Exact dates to be submitted and approved by Owner three weeks prior to

installation. Security of Contractor's equipment and materials is not the responsibility of the Owner.

- a. Schedule deliveries to minimize use of this site by construction operations.
- b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- c. Do not drive vehicles or equipment on the grounds around the buildings or off established roads unless approved by the Tongue River State Park Manager. It is understood that pneumatic- wheeled equipment such as a manlift may be necessary to drive onto the site to perform the work. Any damage to the ground area in the campground shall be repaired by the Contractor at no cost to the Owner.

#### 1.5 COORDINATION WITH OCCUPANTS

- A. Owner Occupancy: Owner or Project Representative will occupy site throughout construction period.

#### 1.6 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
- B. On-Site Work Hours: Project work will be limited to the hours of 7:00 a.m. to 6:00 p.m., Monday through Friday. Additional hours or working days are subject to Owner approval with prior notice. Contractor must give Owner a minimum of two (2) days' notice for working hours outside of those indicated above.
- C. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
  1. Notify Owner not less than two days in advance of proposed disruptive operations.
  2. Undesirable language and other such devices such as excessively loud radios and conversation are hereby specifically prohibited on the project site.
- D. Smoking is not permitted on the site due to fragile wildfire conditions in and around Tongue River Reservoir State Park. Workers may smoke in their vehicles.

#### 1.7 MISCELLANEOUS PROVISIONS

- A. See Special Provisions.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

END OF SECTION

## **SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
  - 1. Division 01 Section "Summary" for work restrictions.

#### **1.2 USE CHARGES**

- A. General: Installation and removal of any necessary temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to Owner and authorities having jurisdiction.
- B. Utilities from Existing System: Vault latrines are available for the contractor's use at Tongue River Reservoir State Park at no cost to the Contractor upon approval. The Tongue River Marina is approximately 1.9 miles south of the project location.
- C. QUALITY ASSURANCE
- D. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service.

#### **1.3 PROJECT CONDITIONS**

- A. Temporary Use of Permanent Facilities: Vault latrines are available for the contractor's use at Tongue River Reservoir State Park upon approval.

### **PART 2 – PRODUCTS (Not used)**

#### **2.1 TEMPORARY FACILITIES**

- A. Field Offices, General: Prefabricated or mobile units. Contractor's option- Field office not required at project site.
- B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations. Contractor's option – Storage shed not required at project site.



- C. Toilet Facility: Locate in designated staging area, or as otherwise approved by Tongue River State Park Management. Contractor may use Park vault latrines upon approval.

## 2.2 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures. Due to fragile nature of the structures and location, the contractor must have fire extinguishers on the site daily.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed.

### 3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Connect to existing service.
- B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities. Contractor's option – Use Tongue River State Park's vault latrines upon approval.
- C. Electric Power Service: Contractor supplied portable generators if necessary.

### 3.3 SUPPORT FACILITIES INSTALLATION

- A. Parking: Use area(s) designated by Owner for construction personnel.
- B. Waste Disposal Facilities: Provide covered waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. The Owner's waste receptacles shall not be used by the Contractor.
- C. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
  - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

### 3.4 SECURITY AND PROTECTION

- A. Contractor is solely responsible for security and protection of all temporary facilities, equipment and materials stored on site.
- B. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities caused by Contractor.
- C. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- D. Tree and Plant Protection: Protect vegetation from damage from construction operations. Replace vegetation damaged from work in this Contract. Replace damaged trees and plants as directed by the Owner.
- E. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses.

### 3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Termination and Removal: Remove each temporary facility when need for its service has ended. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

END OF SECTION

**SECTION 02221 – CLEARING/GRUBBING,**  
**TOPSOIL SALVAGING/PLACING**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section consists of clearing, grubbing, excavating and depositing topsoil in accordance with these specifications and in conformity with the lines, grades, thicknesses, and typical cross sections shown on the Drawings or established by the Owner.
- B. The Contractor will provide all necessary erosion control and protective measures necessary to ensure the integrity of the project area.
- C. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

**PART 2 – PRODUCTS**

**2.1 MATERIALS**

- A. Clearing and Grubbing shall consist of felling trees, disposal of stumps, brush, logs, limbs, vegetation, and other matter within the clearing limits or other areas that interfere with the excavation and embankment limits.
- B. Topsoil salvaging and placing shall consist of that material which is considered suitable for the growth of grass or other cover crops, reasonably free of hard dirt, clay, rocks, or other materials which would inhibit the germination of seeds or the growth of the cover crop.
- C. Topsoil removal shall be to a depth of the top 6-inches of material in all areas unless otherwise specified or directly by the Owner. Classification of soils suitable for topsoil will be at the discretion of the Owner.

**PART 3 – EXECUTION**

**3.1 PROCEDURES**

- A. Clearing and Grubbing will be performed when there are trees, stumps, brush, and other matter that are within the boundaries of disturbance activities.

- B. Topsoil shall be removed in areas within the boundaries of disturbance activities. If topsoil removal depths exceed the 6-inches specified, the Owner will cease all topsoil removal operations until the quantity of overstripping can be determined by a method approved by the Owner.
- C. Topsoil which is not stripped from its original position and placed directly in its final position shall be stockpiled for later incorporation into the work. Stockpiles shall be placed at locations selected by the Contractor and approved by the Owner.
- D. All topsoil will be replaced along cut and fill slopes and along the road slopes.
- E. The Contractor will be responsible for hauling excess topsoil to approved location by the Owner.

## **PART 4 – MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

#### **A. Measurement:**

- 1. Measurement of Clearing and Grubbing will be per Acre (AC).
- 2. Topsoil Salvaging/Placing will be per Cubic Yard (CY).
- 3. The area of topsoil removal will be surveyed and that area will be used to calculate the topsoil volume by using the 6-inch topsoil removal depth.

#### **B. Payment:**

- 1. Clearing and Grubbing Payment shall include the removal of trees, stumps, brush, and other matter that are within the boundaries of disturbance activities.
- 2. Topsoil Salvaging/Placing Payment shall include the number of cubic yards of topsoil stripped to a depth of 6-inches and stockpiled in location approved by the Owner. Placement shall include the number of cubic yards of topsoil placed to utilize all stockpiled topsoil.
- 3. Payment shall constitute full compensation for all labor, equipment, tools and incidentals necessary to complete the preparation of the area for topsoil, loading, hauling, placing and grading of the topsoil.

**END SECTION**

## **SECTION 02230 – EXCAVATION, BACKFILL AND COMPACTION**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Work shall consist of excavation and embankment construction within the limits of the Work necessary for the construction of the roadway, cabin locations and sealed (vault) pit privy.
- B. All excavation and embankment work shall be constructed to the neat lines and elevations as shown in the Drawings.
- C. Contractor is responsible for proper excavation of sealed pit privy per Manufacturer's guidelines.
- D. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

### **PART 2 – PRODUCTS (Not used)**

### **PART 3 – EXECUTION**

#### **3.1 ACCESS ROAD & CABIN EXCAVATION, BACKFILL AND COMPACTION**

- A. Refer to Drawings to ensure conformity to grade thickness, cross sectional area and grading.
- B. The areas to be covered by the compacted fill shall be prepared by scarifying to a minimum depth of 8 inches, smoothing, watering or aerating as necessary to bring the moisture content to within plus four (4) or minus two (2) percentage points of the optimum moisture content, and then compacted to a density not less than 95 percent of the maximum density as determined by ASTM D-698 (Standard Proctor).
- C. Cabin pads may be compacted to 90 percent of the maximum density as determined by ASTM D-698 (Standard Proctor) or approved by Owner.
- D. Immediately prior to placing the first layer of compacted fill, all earthen surfaces upon or against which compacted fill is to be placed shall be cleaned of all loose and objectionable.

- E. When placing compacted earthfill materials, the materials shall be deposited in continuous horizontal layers and compacted as specified below. The excavation, placing, moistening, and compacting operations shall be such that the material will be uniformly compacted throughout. No compacted earthfill shall be placed on or consist of frozen materials.
- F. The thickness of each horizontal layer after compaction shall be not more than 6 (six) inches.

### 3.2 SEALED (VAULT) PIT PRIVY

- A. Refer to Manufacturer's guidelines for excavation and elevation for pit.
- B. Refer to Manufacturer's guidelines for backfill of sealed (vault) privy.

## **PART 4 – MEASUREMENT AND PAYMENT**

### 4.1 MEASUREMENT

- A. Measurement: Measurement will be per Cubic Yard (CY). Measurement will be made by the comparison of the topography prior to construction to the topography of the final surface and adjusted for topsoil removal/placement and ground surfacing.
- B. See Special Provision 02 for Measurement of Sealed (Vault) Pit Privy.

### 4.2 PAYMENT

- A. Payment: Payment will be made for materials actually excavated and removed to obtain proper compaction in cut sections and in foundations for fill sections.

END SECTION

## **SECTION 02110 - EROSION AND SEDIMENTATION CONTROL**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Work shall consist of all labor, equipment, and material necessary for prevention during construction of erosion and sedimentation on the surrounding undisturbed areas and within the construction limits.
- B. The Contractor is responsible for any related documentation required for development and implementation such as a Stormwater Pollution Prevention Plan (SWPPP).
- C. Excess water shall be prevented from flowing into or out of the construction area by methods selected by the Contractor subject to approval by the Owner.
- D. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

### **PART 2 – PRODUCTS**

#### **2.1 MATERIALS**

- A. Materials such as culverts, straw bales, or geotextiles may be needed for erosion control during the construction of the project. Pumps, if required, will be supplied by the Contractor in the size, number, and type to remove impounded water from construction areas if such dewatering becomes necessary in order to proceed with the work.

### **PART 3 – EXECUTION**

#### **3.1 PLACEMENT**

- A. The Contractor shall take sufficient precautions to prevent pollution of streams, lakes, and reservoirs with sediment or other harmful materials. Fuels, oils, bitumens, calcium chloride, cement, or other contaminants that would contribute to the pollution of the water shall not be dumped directly into, or placed where they will leach into the reservoir.

- B. Construction operations that would expose land that is subject to erosion shall be completed as rapidly as practicable.
- C. Disturbance of lands outside the staked limits of construction will be prohibited, except as ordered and staked by the Owner.
- D. Some or all of the temporary erosion control measures employed by the Contractor during construction may, at the discretion of the Owner, remain as permanent erosion control. All materials and/or structures which are not selected to remain as permanent erosion control measures, shall be removed prior to conclusion of the construction project by the Contractor.
- E. The Contractor shall incorporate all erosion control features into the project at the earliest practicable time. Temporary pollution control measures shall be used to correct conditions that develop during construction that were not foreseen during the design stage.

## **PART 4 – MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

- A. Measurement: Erosion and Sediment Control measurement will be Lump Sum (LS).

### **4.2 PAYMENT**

- A. Payment: Payment shall include all materials, maintenance and structures or methods employed to meet the requirements of this specification and incidentals required for the completion of the work.

END SECTION



## **SECTION 02235 - CRUSHED GRAVEL SURFACING AND LEVELING COURSE**

### **PART 1 – GENERAL**

#### **1.1 DESCRIPTION**

- A. This work consists of placing washed, screened, crushed gravel leveling course for prefabricated structures (Cabins and Vault Toilet) and roadway surfacing.
- B. This Work consists of all equipment and labor to install the compacted roadway surfacing material and prefabricated structures (Cabins and Vault Toilet) gravel leveling course in accordance with these specifications and in conformity with the lines, grades, thicknesses, and typical cross sections shown on the Drawings
- C. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

### **PART 2 – PRODUCTS**

#### **2.1 ROADWAY SURFACE AND GRAVEL LEVELING COURSE GRADATION**

- A. Furnish roadway surfacing and gravel leveling course with crushed aggregate as shown in Table 1. The gravel must not contain deleterious material, such as shale, alkali, mica, or soft flaky particles.
- B. Roadway surfacing may also be furnished with 1" Crushed Aggregate Course, or approved alternative by Owner.

**Table 1. Gravel Leveling Course Gradation**

<b>Sieve Size</b>	<b>Percent Passing</b>
1"	100
3/4"	90 - 100
3/8"	20 - 55
No. 4	0 – 10
No. 8	0 – 5

### **PART 3 – EXECUTION**

#### **3.1 PLACEMENT AND SPREADING**

- A. Place material to specified depth as indicated on the Drawings. Deposit and spread the material in a uniform layer and screed to make a uniform, level surface as indicated on the project drawings.

- B. Perform compaction efforts by mechanical tamping utilizing a plate compactor as approved by the Owner.

## **PART 4 – MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

- A. Measurement: Crushed Gravel Surfacing and Leveling Course measurement shall be per Cubic Yard (CY).

### **4.2 PAYMENT**

- B. Payment: Payment shall include compacted, granular surfacing material placed, based upon the neat lines defined in the Drawings. Payment shall constitute full compensation for all investigations, quality control testing to determine suitability for use, haul, placing, permits, water, and compaction. Price will also include all costs to cover labor, equipment, tools and incidentals to complete the work in accordance with the contract documents.

**END SECTION**

## **SECTION 02725 – CULVERT INSTALLATION**

### **PART 1 – GENERAL**

#### **1.1 SUMMARY**

- A. Section includes requirements and guidelines for the installation of an 18-inch diameter HDPE (Corrugated Plastic Pipe).
- B. This work included, but is not limited to, the following items: trenching, installation of bedding materials, and installation of culvert.
- C. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

### **PART 2 – PRODUCTS**

#### **2.1 MATERIAL**

- A. 18-inch diameter HDPE (Corrugated Plastic Pipe) rated for H20 Loading or approved alternative by Owner.
- B. Steel Flared End Sections shall be installed on each end of pipe.

### **PART 3 – EXECUTION**

#### **3.1 INSTALLATION**

- A. Install in accordance with specifications and in conformity with the lines and grades shown on the Drawings.
- B. Ensure the soil beneath the bedding layer is undisturbed or a firm, compacted foundation.
- C. The full length of pipe shall be in contact with bedding material.
- D. After placing the pipe, compact bedding material to 95.0 percent of maximum density as determined by ASTM D-698 (Standard Proctor) and within plus 2 percent to minus 4 percent of optimum moisture content.
- E. Bedding material shall be gravel material placed 6-inches below pipe up to pipe spring line.

F. Minimum 1-foot of cover required over top of pipe.

G. If 1-foot of minimum cover cannot be met, additional excavation will be required upon approval by Owner.

#### **PART 4 – MEASUREMENT AND PAYMENT**

##### **4.1 MEASUREMENT**

A. Measurement: Measurement shall be per linear-foot (LF).

##### **4.2 PAYMENT**

A. Payment: Payment shall constitute full payment for all labor, trench excavation, imported pipe bedding material, backfill, compaction, shoring (if necessary) and installation as specified in the Drawings, and all other work necessary or incidentals for completion of the item.

END SECTION

## **SECTION 02910 – REVEGETATION**

### **PART 1 – GENERAL**

#### **1.1 SUMMARY**

- A. Section consists of soil preparation, furnishing and drilling or broadcasting seed, and/or mulching in accordance with these specifications, the Drawings, or as directed by the Owner.
- B. All work not specifically described in this technical specification of this bid document shall be performed in compliance with the applicable technical specification sections found in the current version of Montana Public Works Standard Specifications (MPWSS).

### **PART 2 – PRODUCTS**

#### **2.1 GRASS SEED**

- A. All seeds distributed within the State are subject to inspection and analysis, and must be in compliance with the Montana Seed Law and the Federal Seed Law. Seed must be purchased through a dealer approved by OWNER.
- B. All seeds shall be furnished in containers and shall be plainly labeled, with seed tags attached by the supplier.
- C. Seed mix shall be Native Pasture seed mix approved by Owner.

### **PART 3 – EXECUTION**

#### **3.1 PROCEDURES**

- A. Prior to seeding, the slopes to be seeded shall be completed to the designated line and grade. Areas not suitable for scarifying shall be left in a rough condition satisfactory to the OWNER during construction to simulate the scarified areas.
- B. The Contractor shall first prepare all of the slopes for seeding. The seed shall then be applied by drilling or broadcasting.

#### **3.2 TIME OF SEEDING**

- A. Seeding shall be accomplished between the time the frost leaves the ground in the spring, and before the frost enters the ground in the fall, with the following

exception. Seeding may proceed when there is some evidence of frost, provided the seedbed can be kept in a workable condition, as approved by the OWNER.

- B. Seed shall not be broadcast when the weather is windy or otherwise unsuitable for the Work.

### 3.3 DRILLING

- A. Drills shall be set for uniform rows with the spacing not to exceed eight inches, and set to distribute the seed at the specified rate. The seed shall be drilled to a depth of  $\frac{1}{4}$  inch to  $\frac{1}{2}$  inch.

### 3.4 BROADCASTING

- A. Broadcasting methods will be limited to areas that cannot be effectively seeded by drilling.
- B. After the seed has been distributed uniformly over the area by approved mechanical broadcasting devices, the ground shall be raked or dragged to cover the seed. Wherever practicable, scarifying and dragging on the slopes shall be done approximately horizontal (perpendicular to the slope and level to the eye).

## **PART 4 – MEASUREMENT AND PAYMENT**

### 4.1 MEASUREMENT

- A. Measurement: Revegetation shall be per acre (AC) as measured by survey of the disturbed area adjusting for areas with gravel surfacing.

### 4.2 PAYMENT

- A. Payment: Payment shall include all labor, equipment, materials, and incidentals required for the completion of the work.

END SECTION

**SPECIAL PROVISION 01 – PREFABRICATED  
STRUCTURES (2-ROOM CABIN) INSTALLATION**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section includes requirements and guidelines for the installation of prefabricated lodging units.

**1.2 RELATED SECTIONS**

- A. Division 01 Section “Summary” for work restrictions and Section 015000 Temporary Activities and Controls.

**1.3 SUBMITTALS**

- A. Submit manufacturer’s information under General Conditions Section 3.12.
- B. Product Data
  - 1. Manufacturer’s data sheet or information for product to be used.
  - 2. Preparation instructions and recommendations
  - 3. Handling requirements
  - 4. Installation method
- C. Shop Drawings: Include details of materials, construction, and finish.
- D. Certificates: Product certificates signed by the manufacturer certifying material compliance with specified performance characteristics and criteria and physical requirements.
- E. Permits: State Building Permit.
- F. Warranty: Warranty documents.

**1.4 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum 3 years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.

- C. Adherence to applicable State and local codes: Manufacturer shall be responsible for all State building permits, any special engineering calculations or architectural drawings required. Owner will be responsible for any local code or regulation requirements.

## 1.5 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference approximately two weeks before scheduled delivery of prefabricated lodging unit or any alternative approved by the Owner. Attendees shall include at a minimum, Tongue River State Park Manager, Owner, Contractor, and any other trades involved. This is in addition to the Pre-Construction conference convened by the Owner prior to the start of all work on the site.

## 1.6 DELIVERY STORAGE AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

## 1.7 PROJECT CONDITIONS

- A. Do not install product under environmental conditions outside the manufacturer's limits.

## 1.8 WARRANTY

- A. Provide the Manufacturer's standard limited warranty, which at a minimum shall comply with General Conditions 1.5.

# PART 2 – PRODUCTS

## 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Prairie Kraft Specialties, LLC 1500 51<sup>st</sup> Street S, Great Falls, MT 59405. Contact: Bethany Benedict, 406-727-3192. Website: <https://www.pkscabins.com/>
- B. Substitutions: Other manufacturers permitted provided the product meets the same specifications otherwise known as "or-equal". Requests for substitution will be considered only during the pre-bid phase with prior approval, in accordance with General Conditions 3.4.2.



## 2.2 PREFABRICATED WOOD STRUCTURES

- A. Basis of Design: Prefabricated and preassembled wood cabins supplied by Prairie Kraft Specialties, LLC.
  - 1. Cabins shall have a minimum of two rooms with an interior door between rooms. Cabin dimensions shall be 14'-0" X 16'-7" plus a 6'-0" front porch. Interior side walls shall be a minimum 5'-6" from floor decking to ceiling decking. Ceiling shall be a minimum 9'-7 1/2" from floor decking to ridge beam.
- B. Construction: Tongue and groove, machined solid wood log "D-log" walls providing a rounded log look on the exterior and flat vertical walls on the interior of the building. Predrilled for electrical. All wood to be kiln dried. Skids to be pressure treated wood. Ceiling decking shall be bevel-sided tongue and groove, solid wood.
- C. Building Sealant: Wall logs caulked with a 35-year siliconized acrylic latex-caulk.
- D. Paints and Stains: Exterior walls, gables, fascia, soffit, rails and posts to be stained with an exterior, all-season, semi-transparent 10-yr wood stain for logs. Exterior wood porch to be coated with water based polyurethane floor finish. Interior walls, ceiling and furnishings to be coated with water based polyurethane wood finish.
- E. Windows and Glazing: Minimum of three (3) vinyl insulated slider-operating windows. Front windows to utilize tempered Low-E glass. Rear window to be sized to meet egress requirements. Trim to be pre-stained.
- F. Roof: Roof to be gable style. Roof to meet R-19 insulation value Roofing to be minimum 26-gauge metal, prefinished, with delta rib profile. Color choice by Owner.
- G. Electric: Building shall be pre-wired for standard 15A service plug in each cabin.
- H. Interior Flooring: Flooring shall be smooth finished, fir or larch tongue and groove wood flooring.
- I. Door: Prefinished wood exterior door with deadbolt lock.
- J. Porch: Exterior wood porch flooring shall be top-radiused decking with 1/4" gap for drainage. Posts and rails to be peeled lodgepole pine or fir.

K. Furnishings Package:

1. Three (3) beds to include 2 – twin sized log bunk bed with two (2) 5” memory foam mattresses and 1-log double bed with 8” memory foam mattress. Mattresses to be covered with antimicrobial material.
2. 2- Wood wall table, 3-wood wall bench, and 2-wood chair.
3. 1- Ready to hang log porch swing.
4. 3- Clothes hooks/hangers

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

- A. Verify rough-in of required electrical services prior to placement of the structure.
- B. Verify structure meets required specifications prior to placement.
- C. Verify access is appropriate for truck, trailer and/or equipment to be utilized to deliver the structure.

### **3.2 PREPARATION**

- A. Prepare gravel pad for structure, per dimensions shown in plans.
- B. Submit plan to Architect/Owner for phasing of structure placement, if more than one.

### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer’s instructions, approved submittals and in proper relationship with adjacent construction.
- B. Place structure on prepared gravel pad as described in the project plans.

### **3.4 FIELD QUALITY CONTROL**

- A. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

### **3.5 CLEANING AND PROTECTION**

- A. Clean products in accordance with manufacturer’s recommendations
- B. Protect installed products until completion of project.

- C. Touch-up, repair or replace damaged products before Project Completion.

## **PART 4 – MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

- A. Measurement: Measurement shall be per Each.

### **4.2 PAYMENT**

- A. Payment: Payment shall be at the contract unit price bid per each for Cabin as listed in the Proposal. Payment shall include delivery, setting and securing of the structure, final restoration, and all labor, materials, and incidental required to complete the item in place.
- B. Alternative 1 Payment: Payment shall be at the contract unit price bid per each for Cabin as listed in the Proposal. Payment shall include delivery, setting and securing of the structure, final restoration, and all labor, materials, and incidental required to complete the item in place.

END SECTION

## **SPECIAL PROVISION 02- SEALED (VAULT) PIT PRIVY INSTALLATION**

### **PART 1 – GENERAL**

#### **1.1 SUMMARY**

- A. Section includes requirements and guidelines for the preparation work and installation of precast sealed (vault) pit privy.

#### **1.2 SUBMITTALS**

- A. Submit manufacturer's information under General Conditions Section 3.12.
- B. Product Data
  - 1. Manufacturer's data sheet or information for product to be used.
  - 2. Preparation instructions and recommendations
  - 3. Handling requirements
  - 4. Installation method
- C. Shop Drawings: Include details of materials, construction, and finish.
- D. Certificates: Product certificates signed by the manufacturer certifying material compliance with specified performance characteristics and criteria and physical requirements.
- E. Warranty: Warranty documents.

#### **1.3 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum 3 years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Adherence to applicable State and local codes: Manufacturer shall be responsible for all State building permits, any special engineering calculations or architectural drawings required. Owner will be responsible for any local code or regulation requirements.

#### 1.4 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference approximately two weeks before scheduled delivery of prefabricated sealed (vault) pit privy. Attendees shall include at a minimum, Tongue River State Park Manager, Owner, Contractor, and any other trades involved. This is in addition to the Pre-Construction conference convened by the Owner prior to the start of all work on the site.

#### 1.5 DELIVERY STORAGE AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

#### 1.6 PROJECT CONDITIONS

- A. Do not install product under environmental conditions outside the manufacturer's limits.

#### 1.7 WARRANTY

- A. Provide the Manufacturer's standard limited warranty, which at a minimum shall comply with General Conditions 1.5.

### **PART 2 – PRODUCTS**

#### 2.1.1 PRE-CAST SEALED (VAULT) PIT PRIVY

- A. Acceptable Manufacturer: "Aspen" Single Vault Toilet by Missoula Concrete 8012 Deschamps Ln, Missoula, MT 59808 or alternative approved by Owner.
- B. Substitutions: Other manufacturers permitted provided the product meets the same specifications otherwise known as "or-equal". Requests for substitution will be considered only during the pre-bid phase with prior approval, in accordance with General Conditions 3.4.2

#### 2.2 MATERIALS

- A. Bedding material to be sand or 3/8" minus crushed or screened aggregate.
- B. Sealant between vault and toilet floor to be 1.5" x 1.5" Butyl Rubber Sealant.
- C. Refer to Manufacturer's Specifications for full list of materials.

## **PART 3 – EXECUTION**

### **3.1 LOCATION AND ACCESS TO SITE**

- A. The area must be free of overhead or underground obstructions.
- B. Care must be taken to not place excavated material in the area where the equipment to install the precast concrete vault toilet will sit.
- C. Verify that bridges/culverts enroute to the site are rated for HS-20 loading.
- D. Deliveries may be delayed if road conditions are hazardous or unsuitable for normal trucks and trailers.
- E. Trucks must be able to reach the site under their own power.

### **3.2 EXCAVATION**

- A. Comply with all applicable OSHA Standards for excavation
- B. Aspen single vault toilet requires a hole that is 8' x 16' x 4'-9".
- C. Finish floor elevation will be 4-6" above natural grade measured at the front (entrance) of the exterior slab unless otherwise approved by the Owner. The Contractor will install buildings at these sites with the floor elevation within +/- 0.05-feet of the specified floor elevation.
- D. Installation of vault toilet must provide drainage away from the structure according to Manufacturer's specifications.

### **3.3 BEDDING AND COMPACTION**

- A. Bedding will compose of natural ground at the bottom of the vault excavation with compaction conforming to Manufacturer's specifications.
- B. Compacted with a minimum of two passes with a whacker-type mechanical compactor or equivalent approved by the Owner.
- C. Spread excess excavated material from the vault around structure. Intended final grade is flush with the top of the front slab. Allow for placement of topsoil to reach grade. Grade backfill away from structure at maximum slope of 5 (five) percent unless otherwise approved by the Owner.

### 3.4 FINISH GRADING

- A. Excess excavated material will be spread around the structure. Grade backfill away from structure at a maximum slope of 5 (five) percent unless otherwise approved by Owner.

## **PART 4 – MEASUREMENT AND PAYMENT**

### 4.1 MEASUREMENT

- A. Measurement: Measurement shall be per Each.

### 4.2 Payment

- A. Payment: Payment shall be at the contract unit price bid per Sealed (Vault) Pit Privy as listed in the Proposal. Payment shall include excavating, bedding and compaction, setting and securing of the structure, final restoration, and all labor, materials, and incidental required to complete the item in place.

END SECTION