

**Project Manual for
Construction of
Navajo Gallup Water Supply Project
Reaches 24.1 & 25**

The Navajo Nation



VOLUME 1

June 2014

**Bid Open Date: Monday, August 18, 2014
Bid Time: 2:00 p.m. (MDT)**



Volume 1

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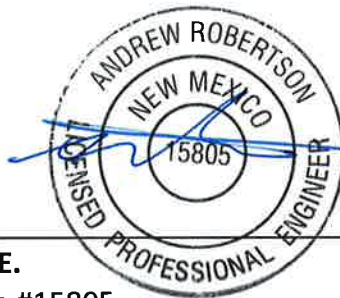
**** See Volume 2 for Technical Specifications and Drawing Index***

ENGINEER CERTIFICATION

These Plans, Contract Documents and Technical Specifications (except structural and electrical plans and specifications) for the **Navajo Gallup Water Supply Project Reaches 24.1 & 25** were prepared by:

Souder, Miller & Associates
3451 Candelaria Rd. NE, Suite D
Albuquerque, NM 87107
(505) 299-0942 or Fax (505) 293-3430

The technical material and data contained in the specifications were prepared under the supervision and direction of Andrew Robertson, P.E., whose seal as a Professional Engineer licensed to practice in the state of New Mexico is affixed below.



Andrew Robertson, P.E.
New Mexico PE License #15805

6/16/14
Date

All questions about the meaning of intent of these documents shall be submitted only to the Engineer of Record stated above, IN WRITING for interpretations.

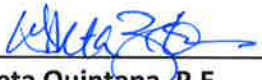
ENGINEER CERTIFICATION

These Plans, Contract Documents and Technical Specifications (Structural plans and specifications only) for the **Navajo Gallup Water Supply Project Reaches 24.1 & 25** were prepared by:

Souder, Miller & Associates

2101 San Juan Blvd.
Farmington, NM 87401
Tel: (505) 325-7535

The technical material and data contained in the specifications were prepared under the supervision and direction of Greta Quintana, P.E., whose seal as a Professional Engineer licensed to practice in the state of New Mexico is affixed below.



Greta Quintana, P.E.
New Mexico PE License #13561

5/7/14

Date

All questions about the meaning of intent of these documents shall be submitted only to the Engineer of Record stated above, IN WRITING for interpretations.



ENGINEER CERTIFICATION

These Plans, Contract Documents and Technical Specifications (electrical plans and specifications only) for the **Navajo Gallup Water Supply Project Reaches 24.1 & 25** were prepared by:

The Response Group
11930 Menaul Blvd., N.E., Suite 214
Albuquerque, NM 871112-0002
Tel: (505) 323-7629

The technical material and data contained in the specifications were prepared under the supervision and direction of Darryl Ruehle, P.E., whose seal as a Professional Engineer licensed to practice in the state of New Mexico is affixed below.

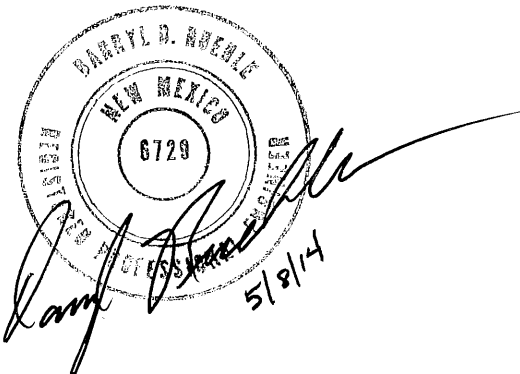


Darryl Ruehle, P.E.
New Mexico PE License #6729

5/8/14

Date

All questions about the meaning or intent of these documents shall be submitted only to the Engineer of Record stated above, IN WRITING for interpretations.



ENGINEER CERTIFICATION

These Plans, Contract Documents and Technical Specifications (Roadway and Traffic Control plans only) for the **Navajo Gallup Water Supply Project Reaches 24.1 & 25** were prepared by:

Souder, Miller & Associates
3451 Candelaria Rd. NE, Suite D
Albuquerque, NM 87107
(505) 299-0942 or Fax (505) 293-3430

The technical material and data contained in the specifications were prepared under the supervision and direction of Darryl Ruehle, P.E., whose seal as a Professional Engineer licensed to practice in the state of New Mexico is affixed below.


George Mihalik, P.E.
New Mexico PE License # 18134



7/14/14

Date

All questions about the meaning of intent of these documents shall be submitted only to the Engineer of Record stated above, IN WRITING for interpretations.

ADVERTISEMENT FOR BIDS

Navajo Nation - Water Management Branch

Owner

P.O. Drawer 678, Fort Defiance, AZ 86504

Address

Separate sealed BIDS for the construction of the Navajo Gallup Water Supply Project Reaches 24.1 & 25 will be received by the OWNER at the office of the ENGINEER, Souder, Miller & Associates, until **2:00 P.M. (MDT), Monday, August 18, 2014** and then at said office publicly opened and read aloud.

Project Description: The project consists of approximately 10.7 miles of 14-inch PVC water transmission line, three storage tanks, a pre-fabricated pump station, surge tanks, gas chlorine disinfection unit, and appurtenances; within the territory of the Counselor and Ojo Encino Chapters of the Navajo Nation.

The Project Manual may be examined at the following locations:

Builders News and Plan Room, 3435 Princeton Dr. NE, Albuquerque, NM 87107	(505) 884-1752
Construction Reporter, 1609 2nd St. NW, Albuquerque, NM 87102	(505) 243-9793
McGraw-Hill Construction Dodge at: www.construction.com/projectcenter/	(800) 393-6343
Souder, Miller & Associates, 3451 Candelaria Rd. NE, Ste. D, Albuquerque, NM 87107	(505) 299-0942
Navajo Nation Water Management Branch, Fort Defiance, AZ 86504	(928) 729-4004

Hard copies of the Project Manual may be obtained at the office of the ENGINEER, Souder, Miller & Associates, 3451 Candelaria Rd. NE, Suite D, Albuquerque, NM 87107, upon payment of \$200.00 by check only, made payable to the OWNER, for each set. Any BIDDER, upon returning the Project Manual in good and complete condition within 30 days of bid opening, will be refunded \$200.00. Also, sets of the Project Manual may be obtained at the office of the ENGINEER on CD upon non-refundable payment of \$25.00 for each CD.

Five percent preference will be given in award to Navajo and other Indian-owned firms qualifying for preference in accordance with the Navajo Nation Business Opportunities Act, N.N.C. Title 5, Chapter 2. Bidders claiming preference shall submit evidence of their priority certification with their bid. Suppliers, brokers, agents, subsidiaries, successors and assigns shall be fully subject to the requirements and provisions of the Navajo Nation Business Opportunity Act ("the Act"). Those firms seeking preference priority under this solicitation must document with their bid that any third parties delivering goods and services pursuant to this solicitation were selected according to the procedures described in the Act. Failure to comply with this requirement will result in the bid being declared non-responsive and being rejected. All firms submitting bids under this solicitation must comply with all other qualification requirements referenced in the solicitation documents in order for their bid to be considered responsive.

A MANDATORY PRE-BID MEETING will be held at the Counselor Chapter House, 9820 Chapter House Road, or Mile Post 98, Hwy 550, on **Monday, August 4, 2014** at **10:00 A.M.**

INSTRUCTIONS TO BIDDERS

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ARTICLE 1 – DEFINED TERMS

- 1.01 Terms used in these Instructions to Bidders have the meanings indicated in the Standard General Conditions and Navajo Nation Supplemental Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below:

A. *Issuing Office* – The office from which the Bidding Documents are to be issued.

ARTICLE 2 – COPIES OF BIDDING DOCUMENTS

- 2.01 Complete sets of the Bidding Documents may be obtained from the Issuing Office in the number and format stated in the Advertisement or Invitation to Bid. The deposit will be refunded to each document holder of record who returns a complete set of Bidding Documents in good condition within 30 days after opening of Bids.
- 2.02 Complete sets of Bidding Documents shall be used in preparing Bids, and not for construction; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.03 Owner and Engineer, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work and do not authorize or confer a license for any other use.

ARTICLE 3 – QUALIFICATIONS OF BIDDERS

- 3.01 Prior to bidding on the Project, Bidder must carry all licenses required under New Mexico state law to complete the Work. Refer to Title 14 Housing and Construction of the New Mexico Administrative Code (NMAC), Chapter 6, Part 6, for a listing of classifications of licenses and certificates issued by the Construction Industries Division (CID) of the New Mexico Regulation and Licensing Department required by law to perform the Work. All Subcontractors must have the licenses required under New Mexico state law in place prior to beginning Work to be performed by them. Subcontractors do not need to be licensed in New Mexico at the time of bid opening. Bidder and all Subcontractors must be properly licensed according to the requirements of the Construction Industries Licensing Act, Chapter 60, Article 12 NMSA 1978 and ensure that such licenses shall remain in effect for the duration of the Work and warranty periods. All electrical work, whether performed by Bidder or Bidder's Subcontractor, shall be performed by a licensed electrician. It is the responsibility of the Bidder to consult with the New Mexico Construction Industries Division to determine what license classifications are required.
- 3.02 To demonstrate Bidder's qualifications to perform the Work, the Bidder shall complete and submit the Bidder's Qualifications Statement included in the Project Manual along with all supporting data together with the Bid, which will be used in the evaluation of the Bid prior to Award, as stipulated in Article 19 of these Instructions to Bidders. The Bidder may be considered non-responsive if the Bidder's Qualifications Statement is not submitted together with the Bid.
- 3.03 This Procurement is being conducted pursuant to all applicable Navajo Nation laws, including but not limited to the Navajo Nation Business Opportunity Act, 5 N.N.C. § 201, *et seq.*
- 3.04 A Bidder's failure to submit required qualification information within the times indicated may disqualify Bidder from receiving an award of the Contract.
- 3.05 No requirement in this Article 3 to submit information will prejudice the right of Owner to seek additional pertinent information regarding Bidder's qualifications.

- 3.06 Bidder is advised to carefully review those portions of the Bid Form requiring Bidder's representations and certifications.

ARTICLE 4 – SITE AND OTHER AREAS; EXISTING SITE CONDITIONS; EXAMINATION OF SITE; OWNER'S SAFETY PROGRAM; OTHER WORK AT THE SITE

4.01 *Site and Other Areas*

- A. The Site is identified in the Bidding Documents. By definition, the Site includes rights-of-way, easements, and other lands furnished by Owner for the use of the Contractor. Any additional lands required for temporary construction facilities, construction equipment, or storage of materials and equipment, and any access needed for such additional lands, are to be obtained and paid for by Contractor.

4.02 *Existing Site Conditions*

- A. Subsurface and Physical Conditions; Hazardous Environmental Conditions
1. The Technical Specifications identify:
 - a. Those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site.
 - b. Those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).
 - c. Reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site.
 - d. Technical Data contained in such reports and drawings.
 2. Owner will make copies of reports and drawings referenced above available to any Bidder on request. These reports and drawings are not part of the Contract Documents, but the Technical Data contained therein upon whose accuracy Bidder is entitled to rely, as provided in the General Conditions, has been identified and established in the Technical Specifications. Bidder is responsible for any interpretation or conclusion Bidder draws from any Technical Data or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.
 3. If the Technical Specifications, specifically Section 01 00 00, do not identify Technical Data, the default definition of Technical Data set forth in Article 1 of the General Conditions will apply.
 4. If the Technical Specifications, specifically Section 01 00 00, specifically identify information or test results as not being Technical Data upon which the Bidder is entitled to rely, then the Bidder shall not be entitled to rely upon said information.
- B. Underground Facilities: Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site are set forth in the Contract Documents and are based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others. Bidder shall, per the provisions in the following paragraph, undertake additional subsurface investigation work to develop a sound understanding of subsurface conditions prior to preparing the Bid.

- C. Adequacy of Data: Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions, other physical conditions, and Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated subsurface or physical conditions appear in Paragraphs 5.03, 5.04, and 5.05 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the Site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work, appear in Paragraph 5.06 of the General Conditions.

4.03 *Site Visit and Testing by Bidders*

- A. Bidder shall conduct the required Site visit during normal working hours, and shall not disturb any ongoing operations at the Site.
- B. Bidder is not required to conduct any subsurface testing, or exhaustive investigations of Site conditions.
- C. On request, and to the extent Owner has control over the Site, and schedule permitting, the Owner will provide Bidder access to the Site to conduct such additional examinations, investigations, explorations, tests, and studies as Bidder deems necessary for preparing and submitting a successful Bid. Owner will not have any obligation to grant such access if doing so is not practical because of existing operations, security or safety concerns, or restraints on Owner's authority regarding the Site.
- D. Bidder shall comply with all applicable Laws and Regulations regarding excavation and location of utilities, obtain all permits, and comply with all terms and conditions established by Owner or by property owners or other entities controlling the Site with respect to schedule, access, existing operations, security, liability insurance, and applicable safety programs.
- E. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

4.04 *Owner's Safety Program*

- A. Site visits and work at the Site may be governed by an Owner safety program. As the General Conditions indicate, if an Owner safety program exists, it will be furnished to the Contractor.

4.05 *Other Work at the Site*

- A. The Technical Specifications identify the general nature of other work of which Owner is aware (if any) that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) and relates to the Work contemplated by these Bidding Documents. If Owner is party to a written contract for such other work, then on request, Owner will provide to each Bidder access to examine such contracts (other than portions thereof related to price and other confidential matters), if any.

ARTICLE 5 – BIDDER'S REPRESENTATIONS

- 5.01 It is the responsibility of each Bidder before submitting a Bid to:

- A. Examine and carefully study the Bidding Documents, and any data and reference items identified in the Bidding Documents;
- B. Visit the Site, conduct a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfy itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
- C. Become familiar with and satisfy itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. Carefully study all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Technical Specifications, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Technical Specifications, especially with respect to Technical Data in such reports and drawings;
- E. Consider the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs;
- F. Agree, based on the information and observations referred to in the preceding paragraph, that at the time of submitting its Bid no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents;
- G. Become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- H. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder;
- I. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work; and
- J. Agree that the submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 6 – PRE-BID CONFERENCE

- 6.01 A Mandatory Pre-Bid conference will be held at the time and location stated in the invitation or advertisement to bid. Representatives of Owner and Engineer will be present to discuss the Project. Bidders are required to attend and participate in the conference. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response

to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective. Any Bid presented by a Bidder who did not attend the Mandatory Pre-Bid Conference will not be considered.

ARTICLE 7 – INTERPRETATIONS AND ADDENDA

- 7.01 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda delivered to all parties recorded as having received the Bidding Documents. Questions received less than seven days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 7.02 Addenda may be issued to clarify, correct, supplement, or change the Bidding Documents.

ARTICLE 8 – BID SECURITY

- 8.01 A Bid must be accompanied by Bid security made payable to Owner in an amount of five percent (5%) of Bidder's maximum Bid price (determined by adding the base bid and all alternates) and in the form of a certified check, bank money order, or a Bid bond (on the form included in the Bidding Documents) issued by a surety meeting the requirements of Paragraphs 6.01 and 6.02 of the General Conditions.
- 8.02 The Bid security of the apparent Successful Bidder will be retained until Owner awards the contract to such Bidder, and such Bidder has executed the Contract Documents, furnished the required contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be released. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within 15 days after the Notice of Award, Owner may consider Bidder to be in default, annul the Notice of Award, and the Bid security of that Bidder will be forfeited. Such forfeiture shall be Owner's exclusive remedy if Bidder defaults.
- 8.03 The Bid security of other Bidders that Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of seven days after the Effective Date of the Contract or 61 days after the Bid opening, whereupon Bid security furnished by such Bidders will be released.
- 8.04 Bid security of other Bidders that Owner does not select for a Contract Award shall be released within seven days after the Owner's execution of a Contract.

ARTICLE 9 – CONTRACT TIMES

- 9.01 The number of days within which, or the dates by which the Work is to be substantially completed and ready for final payment are set forth in the Agreement.

ARTICLE 10 – LIQUIDATED DAMAGES

- 10.01 Provisions for liquidated damages, if any, for failure to timely attain a Milestone, Substantial Completion, or completion of the Work in readiness for final payment, are set forth in the Agreement.

ARTICLE 11 – SUBSTITUTE AND “OR-EQUAL” ITEMS

- 11.01 The Contract for the Work, as awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration during the bidding and Contract award process of possible substitute or “or-equal” items. In cases in which the Contract allows the Contractor to request that Engineer authorize the use of a substitute or “or-equal” item of material or equipment, application for such acceptance may not be made to and will not be considered by Engineer until after the Effective Date of the Contract.
- 11.02 All prices that Bidder sets forth in its Bid shall be based on the presumption that the Contractor will furnish the materials and equipment specified or described in the Bidding Documents, as supplemented by Addenda. Any assumptions regarding the possibility of post-Bid approvals of “or-equal” or substitution requests are made at Bidder’s sole risk.

ARTICLE 12 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS

- 12.01 If a List of Proposed Subcontractors is identified as a required attachment to the Bid Proposal, the Bidder is required to identify all Subcontractors whose subcontracted work surpasses the Subcontractor listing threshold of twenty five thousand dollars (\$25,000). Firms identified in the List of Proposed Subcontractors shall not be substituted.
- 12.02 If the Bidder fails to specify a Subcontractor in excess of the listing threshold, the Bidder represents that the Bidder, as the prime Contractor, is fully qualified to perform that portion of the Work. For each such listed Subcontractor, the Bidder shall include the following information:
- A. The name of Subcontractor that will perform work or labor or render service on the project identified in the Contract Documents and the city or county of its principal place of business; and
 - B. The category of the work that will be done by each Subcontractor; only one Subcontractor may be listed for each category of work as defined by the Bidder.
- 12.03 Contractor shall not substitute any person as Subcontractor in place of those identified on the List or Proposed Subcontractors without prior approval from Owner. The same applies to equipment manufacturers identified on the Equipment Suppliers List, when such a list is included in the Project Manual.
- 12.04 A Bidder shall be prepared to retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of the Work if required by the Bidding Documents (most commonly in the Specifications) to do so. If a prospective Bidder objects to retaining any such Subcontractor, Supplier, or other individual or entity, and the concern is not relieved by an Addendum, then the prospective Bidder should refrain from submitting a Bid.
- 12.05 Subsequent to the submittal of the Bid, Owner may not require the Successful Bidder or Contractor to retain any Subcontractor, Supplier, or other individual or entity against which Contractor has reasonable objection.
- 12.06 If requested by Owner, Contractor shall provide an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, or other individual or entity. If Owner or Engineer, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit an acceptable substitute, in which case apparent Successful Bidder shall submit a substitute, without an increase in Bid price.

- 12.07 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, or other individuals or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner or Engineer makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to subsequent revocation of such acceptance as provided in Paragraph 7.06 of the General Conditions.

ARTICLE 13 – PREPARATION OF BID

- 13.01 The Bid Form is included with the Bidding Documents.
- A. All blanks on the Bid Form shall be completed in ink and the Bid Form signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each section, Bid item, alternate, adjustment unit price item, and unit price item listed therein.
 - B. If the Bid Form expressly indicates that submitting pricing on a specific alternate item is optional, and Bidder elects to not furnish pricing for such optional alternate item, then Bidder may enter the words “No Bid” or “Not Applicable.”
- 13.02 A Bid by a corporation shall be executed in the corporate name by a corporate officer (whose title must appear under the signature), accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown.
- 13.03 A Bid by a limited liability company shall be executed in the name of the firm by a member or other authorized person and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown.
- 13.04 A Bid by an individual shall show the Bidder’s name and official address.
- 13.05 A Bid by a joint venture shall be executed by an authorized representative of each joint venturer in the manner indicated on the Bid Form. The official address of the joint venture shall be shown.
- 13.06 All names shall be printed in ink below the signatures.
- 13.07 The Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.
- 13.08 Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.
- 13.09 The Bid shall contain evidence of Bidder’s authority and qualification to do business in the state where the Project is located, or Bidder shall covenant in writing to obtain such authority and qualification prior to award of the Contract and attach such covenant to the Bid. Bidder’s state contractor license number, if any, shall also be shown on the Bid Form.

ARTICLE 14 – BASIS OF BID

- 14.01 *Unit Price*
- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the unit price section of the Bid Form.

- B. The "Bid Price" (sometimes referred to as the extended price) for each unit price Bid item will be the product of the "Estimated Quantity" (which Owner or its representative has set forth in the Bid Form) for the item and the corresponding "Bid Unit Price" offered by the Bidder. The total of all unit price Bid items will be the sum of these "Bid Prices"; such total will be used by Owner for Bid comparison purposes. The final quantities and Contract Price will be determined in accordance with Paragraph 13.03 of the General Conditions.
- C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

ARTICLE 15 – SUBMITTAL OF BID

- 15.01 With each copy of the Bidding Documents, a Bidder is furnished one separate unbound copy of the Bid Form, and, if required, the Bid Bond Form. The unbound copy of the Bid Form is to be completed and submitted with the Bid security and the other documents required to be submitted under the terms of Article 7 of the Bid Form.
- 15.02 A Bid shall be received no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in a plainly marked package. All submitted Bids must be sealed and the package/envelope must be clearly marked "**BID FOR NAVAJO GALLUP WATER SUPPLY PROJECT REACHES 24.1 & 25**". All Bids to be considered for Indian Preference must be clearly marked as such on the outside of the envelope. Bids submitted by email or fax shall be disqualified. The Bid shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on the outside as described above. A mailed Bid shall be addressed to the Engineer, Souder, Miller & Associates, Attention: Andrew Robertson, P.E., 3451 Candelaria Road. NE, Suite D, Albuquerque, NM 87107.
- 15.03 Bids received after the date and time prescribed for the opening of bids, or not submitted at the correct location or in the designated manner, will not be accepted and will be returned to the Bidder unopened.

ARTICLE 16 – MODIFICATION AND WITHDRAWAL OF BID

- 16.01 A Bid may be withdrawn by an appropriate document duly executed in the same manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids. Upon receipt of such notice, the unopened Bid will be returned to the Bidder.
- 16.02 If a Bidder wishes to modify its Bid prior to Bid opening, Bidder must withdraw its initial Bid in the manner specified in Paragraph 16.01 and submit a new Bid prior to the date and time for the opening of Bids.
- 16.03 If within 24 hours after Bids are opened any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

ARTICLE 17 – OPENING OF BIDS

- 17.01 Bids will be opened at the time and place indicated in the advertisement or invitation to bid. All eligible Bids shall be opened in accordance with the bid opening procedures of the Navajo Business Opportunity Act (“NBOA”) at 5 N.N.C. §205 C, and a staff member of the Navajo Nation Business Regulatory Department shall be in attendance at the opening of Bids. An abstract of the amounts of the base Bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

ARTICLE 18 – BIDS TO REMAIN SUBJECT TO ACCEPTANCE

- 18.01 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 19 – EVALUATION OF BIDS AND AWARD OF CONTRACT

- 19.01 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner will reject the Bid of any Bidder that Owner finds, after reasonable inquiry and evaluation, to not be responsible. If Bidder purports to add terms or conditions to its Bid, takes exception to any provision of the Bidding Documents, or attempts to alter the contents of the Contract Documents for purposes of the Bid, then the Owner will reject the Bid as nonresponsive; provided that Owner also reserves the right to waive all minor irregularities not involving price, time, or changes in the Work.
- 19.02 If Owner awards the contract for the Work, such award shall be to the responsible Bidder submitting the lowest responsive Bid. However, the ultimate determination of eligibility for a Contract Award and ultimate selection of a Contractor for a Contract Award shall be in accordance with the Navajo Business Opportunity Act, and other applicable Navajo Nation laws.
- 19.03 Evaluation of Bids
- A. In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.
 - B. If the Contract is to be awarded, Owner will award the Contract to the Bidder whose Bid is in the best interests of the Project. Upon receipt of Bids, the Owner will evaluate the Base and Alternate Bid to determine which items are in the Owner’s best interest. Award will be made to the responsible and responsive Bidder that offers the lowest aggregate amount for the Base Bid and Alternate Bid items determined by the Owner to be included in the Award. All Bids will be evaluated on the basis of the same Base Bid and Alternate Bid Items (if included). Refer to Article 1.13 of Section 01 00 00 of the Technical Specifications for a more detailed description of Bid Alternate items.
- 19.04 In evaluating whether a Bidder is responsible, Owner will consider the qualifications of the Bidder and may consider the qualifications and experience of Subcontractors and Suppliers proposed for those portions of the Work for which the identity of Subcontractors and Suppliers must be submitted as provided in the Bidding Documents.
- 19.05 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders and any proposed Subcontractors or Suppliers.

- 19.06 A five percent (5%) Indian preference will be applied by adding 5% to all non-Indian contractors' bid amounts for the purpose of cost comparison. However, only the actual bid amount will be used in the Agreement. Any Bidder wishing to be considered for the Indian preference must provide documentation of eligibility with his or her Bid proposal. The 5% Indian preference is available to all prime contractors who demonstrate Indian ownership / preference status in accordance with their own Tribe's laws. This applies to non-Navajo tribes, as well as Navajo-owned contractors. In the case of Navajo-owned firms, both Priority 1 and Priority 2 contractors are eligible for the Indian preference.

ARTICLE 20 – BONDS AND INSURANCE

- 20.01 Article 6 of the Standard General Conditions and Navajo Nation Supplemental Conditions, sets forth Owner's requirements as to performance and payment bonds and insurance. When the Successful Bidder delivers the Agreement (executed by Successful Bidder) to Owner, it shall be accompanied by required bonds and insurance documentation.

ARTICLE 21 – SIGNING OF AGREEMENT

- 21.01 When Owner issues a Notice of Award to the Successful Bidder, it shall be accompanied by the unexecuted counterparts of the Agreement along with the other Contract Documents as identified in the Agreement. Within 15 days thereafter, Successful Bidder shall execute and deliver the required number of counterparts of the Agreement (and any bonds and insurance documentation required to be delivered by the Contract Documents) to Owner. Within ten days thereafter, Owner shall deliver one fully executed counterpart of the Agreement to Successful Bidder, together with printed and electronic copies of the Contract Documents as stated in Paragraph 2.02 of the General Conditions.

ARTICLE 22 – SALES AND USE TAXES

- 22.01 All work performed and services provided within the territorial jurisdiction of the Navajo Nation are subject to the 5% Navajo Nation Sales Tax.
- 22.02 Taxes shall not be included in the Bid, except where specifically requested on the Bid Form.
- 22.03 The Navajo Nation does not impose taxes on work performed by Subcontractors or on materials for re-sale, provided the General Contractor pays applicable taxes on pay requests to the Owner. The Navajo Nation Commission has forms available for the General Contractor to fill out and provide to vendors and Subcontractors for this purpose.

ARTICLE 23 – RETAINAGE

- 23.01 Provisions concerning retainage and/or Contractor's rights to deposit securities in lieu of retainage are set forth in the Agreement and further detailed in the Standard General Conditions and Navajo Nation Supplemental Conditions.

ARTICLE 24 – NAVAJO NATION DISCLAIMERS

- 24.01 In accordance with Section XIII.B. of the Navajo Nation Procurement Regulations, at any time prior to a final Contract Award, the Navajo Nation may cancel this Bid for any of the reasons as follows:
- A. Inadequate or ambiguous specifications were cited in the Project Manual;
 - B. Specifications or descriptions for the Scope of Work have been revised;

- C. The services are no longer required;
 - D. The Project Manual did not provide for consideration of all factors of cost to the Navajo Nation;
 - E. All Bids received indicate that the needs of the Navajo Nation can be satisfied by a less expensive service differing from that described in the Project Manual;
 - F. All Bids received exceed the Maximum Feasible Price (budget);
 - G. Submitted Bids were not the result of open competition, were collusive, contained fraudulent statements or information, contained any material misrepresentation, or were submitted in bad faith; or
 - H. Cancellation is in the best interest of the Navajo Nation.
- 24.02 A determination to cancel the Bid shall be published in the same manner as the initial Bid advertisement, and such cancellation shall be mailed or faxed to all Interested Parties who have received the Bid Package. Upon cancellation, all Bids shall be returned to a submitting Party upon written request by such Party.
- 24.03 Appropriations Required:
- A. No Contract Award shall be made to any Party if there are not sufficient appropriations or authorizations regarding the Project, and any awarded Contract may be terminated if such appropriations or authorizations are lacking. The determination whether sufficient appropriations or authorizations are present is at the sole discretion of the Navajo Nation.
- 24.04 Right to Disqualify:
- A. The Navajo Nation reserves its right to Disqualify any Bid or any Party from consideration for a Contract Award for the Project, if such Party has previously failed to satisfactorily perform any previous project or any previous contract with the Navajo Nation or any other governmental entity, has failed to timely submit required documents or information, or has caused the Navajo Nation to incur unreasonable expense regarding the consideration of its Bid.

BID FORM

Navajo Gallup Water Supply Project Reaches 24.1 & 25

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Navajo Nation – Water Management Branch
C/O Souder, Miller & Associates
Attention: Andrew Robertson, P.E.
3451 Candelaria Rd. NE, Suite D
Albuquerque, New Mexico 87107

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

- A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

- B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Technical Specifications, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder’s safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER’S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
1. “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID

REACH 24.1

Note: Tax not included.

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
General and Miscellaneous					
24.1	Mobilization (75%) / demobilization (25%)	LS	1		
24.2	Testing allowance, (reimbursable lab fees only, incl. compaction, concrete, materials, water quality)	Allow.	1	\$50,000.00	\$50,000.00
24.3	Traffic control, per county and BIA requirements	LS	1		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
Erosion and Storm Water Controls					
24.4	Wire-caged riprap (item includes rock only), final quantities, dimensions and locations TBD in field, CIP	Cu Yd	30		
24.5	Wire cage, geotextile, and staking for wire-caged riprap, final quantities, dimensions and locations TBD in field, CIP	Sq Yd	91		
24.6	Re-seeding of waterline ROW and TCE, CIP	LF	14,700		
24.7	SWPPP Preparation pursuant to NPDES stormwater program and consistent with USEPA's general construction permit. Preparation of document only.	LS	1		
24.8	SWPPP Implementation (incl. all BMPs required by SWPPP, filing of all notices and inspections required by EPA, etc.). Excludes preparation of SWPPP document.	LS	1		
Water Mainline					
24.9	14-inch PVC DR 18 C905 Pipeline, with appurtenances (incl. all fittings, adaptors and anchors not separately listed), includes fusible or bell and spigot joint as indicated on plans and specifications, CIP	LF	14,700		
24.10	Flushing, disinfection and bacteriological testing, CIP	LF	14,700		
24.11	Hydrostatic testing of main pipeline, CIP	LF	14,700		
Water Valve Assemblies					
24.12	14-inch Butterfly valve assembly with by-pass, CIP	EA	5		
24.13	4-inch Flush valve assembly with riser, incl. main line tap, gate valve assembly, riser, meter can assembly, 20 LF steel pipe and rubber check valve, CIP	EA	2		
24.14	4-inch PVC Flush valve drain line, CIP	LF	150		
24.15	3-inch Vacuum relief with 2-inch air release valve assembly with vault, CIP	EA	2		
24.16	2-inch Combination air valve assembly with vault, CIP	EA	9		
Road and Gas Line Crossings					
24.17	Open cut road crossing, incl. 20-inch dia. 0.375 wall steel casing and end seals, CIP. Excludes carrier pipe.	LF	150		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
24.18	Gas/petroleum line crossing, incl. 20-inch dia. PVC casing, with petroleum-resistant gaskets and end seals, location and exposure of gas lines per gas company requirements, CIP. Excludes carrier pipe.	LF	40		

REACH 24.1 SUBTOTAL: \$ _____

REACH 25

Note: Tax not included.

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
General and Miscellaneous					
25.1	Mobilization (75%) / demobilization (25%)	LS	1		
25.2	Testing allowance, (reimbursable lab fees only, incl. compaction, concrete, materials, water quality)	Allow.	1	\$450,000.00	\$450,000.00
25.3	Traffic control, per county and BIA requirements	LS	1		
25.4	Extended service agreement with tank cathodic protection system inspector for all three new tanks, per terms established in Section 26 42 10 of the Technical Specifications	LS	1		
Erosion and Storm Water Controls					
25.5	Wire-caged riprap (item includes rock only), final quantities, dimensions and locations TBD in field, CIP	Cu Yd	578	Unit Price per 24.4	
25.6	Wire cage, geotextile, and staking for wire-caged riprap, final quantities, dimensions and locations TBD in field, CIP	Sq Yd	1,736	Unit Price per 24.5	
25.7	Uncaged riprap and rock check dams, final quantities, dimensions and locations TBD in field, CIP	Cu Yd	120		
25.8	Re-seeding of waterline ROW and TCE, CIP	LF	42,300	Unit Price per 24.6	
25.9	Re-seeding of Counselor tank site, CIP	LS	1		
25.10	Re-seeding of pump station site, CIP	LS	1		
25.11	Re-seeding of Ojo Encino tank site, CIP	LS	1		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.12	SWPPP Preparation pursuant to NPDES stormwater program and consistent with USEPA's general construction permit. Preparation of document only.	LS	1		
25.13	SWPPP Implementation (incl. all BMPs required by SWPPP, filing of all notices and inspections required by EPA, etc.). Excludes preparation of SWPPP document.	LS	1		
Water Mainline					
25.14	14-inch PVC DR 18 C905 Pipeline, with appurtenances (incl. all fittings, adaptors and anchors not separately listed), includes fusible or bell and spigot joint as indicated on plans and specifications, CIP	LF	42,300	Unit Price per 24.9	
25.15	Flushing, disinfection and bacteriological testing, CIP	LF	42,300	Unit Price per 24.10	
25.16	Hydrostatic testing of main pipeline, CIP	LF	42,300	Unit Price per 24.11	
Water Valve Assemblies					
25.17	18-inch Butterfly valve assembly without by-pass, CIP	EA	6		
25.18	14-inch Butterfly valve assembly with by-pass, CIP	EA	11	Unit Price per 24.12	
25.19	14-inch Butterfly valve assembly without by-pass, CIP	EA	12		
25.20	8-inch Gate valve assembly, CIP	EA	17		
25.21	6-inch Gate valve assembly, CIP	EA	2		
25.22	4-inch Gate valve assembly, CIP	EA	1		
25.23	4-inch Flush valve assembly with riser, incl. main line tap, gate valve assembly, riser, meter can assembly, 20 LF steel pipe and rubber check valve, CIP	EA	4	Unit Price per 24.13	
25.24	4-inch Flush valve assembly without riser, incl. main line tap, gate valve assembly, 20 LF steel pipe and rubber check or flap valve, CIP	EA	3		
25.25	4-inch PVC Flush valve drain line, CIP	LF	540	Unit Price per 24.14	
25.26	3-inch Vacuum relief with 2-inch air release valve assembly with vault, CIP	EA	1	Unit Price per 24.15	
25.27	2-inch Combination air valve assembly with vault, CIP	EA	25	Unit Price per 24.16	

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.28	8-inch Altitude valve assembly and 2-inch control plumbing assembly with vault, CIP	EA	2		
25.29	8-inch Check valve assembly with vault, CIP	EA	1		
Pump Station, Surge Tanks and Site Work					
25.30	Prefabricated pump station with plumbing tie-ins and all appurtenances, CIP	LS	1		
25.31	Pump station foundation and interior slab, with tie-ins and appurtenances, CIP	LS	1		
25.32	Surge tank building, incl. doors, hardware, floor drains, and all other structural elements not separately listed, CIP	LS	1		
25.33	Surge tank building foundation and interior slab, with tie-ins and appurtenances, CIP	LS	1		
25.34	3,963 Gallon surge tank incl. all piping, fittings, and appurtenances not separately listed, CIP	LS	1		
25.35	793 Gallon surge tank incl. all piping, fittings, and appurtenances not separately listed, CIP	LS	1		
25.36	Concrete driveways, walkways, HVAC pad, transformer pad, and all other site concrete work not separately listed, CIP	Cu Yd	20		
25.37	Site earthwork and grading for sub-foundations, pads and driveways, incl. all earthwork and imported fill material, and material removal within the ROW for the pump station and surge tanks not separately listed, per plans, specifications and geotechnical report, CIP. Excludes surfacing material and riprap.	LS	1		
25.38	Landscaping wall and landscaping, incl. gravel, CIP	LS	1		
25.39	Pump/ surge tank site piping, incl. all pipe, flush lines, drains, appurtenances, and fittings within the pump site ROW not separately listed, CIP. Excludes flush valves, butterfly valves, gate valves, and 14-inch main line beyond the wyes.	LS	1		
Counselor Tank and Site Work					
25.40	1,000,000 gallon water storage tank and cathodic protection system, welded steel with impressed current CP per Sections 33 16 19, 09 97 14 and 26 42 10, including installation, energizing, adjusting, and testing, CIP	LS	1		
25.41	Tank foundation for 1,000,000 gallon tank, CIP	EA	1		
25.42	Floor taps on existing Counselor distribution tank, incl. draining, installation of all three pipes, re-compaction, tapping, recoating, re-filling and disinfection of tank interior, CIP	LS	1		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.43	Site earthwork and grading for sub-foundation, pads and driveways, incl. all earthwork and imported fill material within the ROW for the new and existing tanks not separately listed, per plans, specifications and geotechnical report, CIP. Excludes surfacing material and riprap.	LS	1		
25.44	Counselor site piping, incl. all new pipe, tapping saddles, appurtenances and fittings, removal/ replacement of abandoned facilities, and all other plumbing components within the Counselor site ROW not separately listed, CIP. Includes moving existing butterfly valve to new location. Excludes gate valves, butterfly valves, check valves, altitude valves, air valves, and 14-inch main line.	LS	1		
25.45	Disinfection, filling, and bacteriological testing of new 1,000,000 gallon tank, CIP	LS	1		
Ojo Encino North Tanks and Site Work					
25.46	100,000 gallon water storage tank and cathodic protection system, welded steel with impressed current CP per Sections 33 16 19, 09 97 14 and 26 42 10, including installation, energizing, adjusting, and testing, CIP	LS	1		
25.47	Tank foundation for 100,000 gallon tank, CIP	LS	1		
25.48	300,000 gallon water storage tank and cathodic protection system, welded steel with impressed current CP per Sections 33 16 19, 09 97 14 and 26 42 10, including installation, energizing, adjusting, and testing, CIP	LS	1		
25.49	Tank foundation for 300,000 gallon tank, CIP	LS	1		
25.50	Floor taps on existing Ojo Encino distribution tank, incl. draining, installation of two pipes, re-compaction, tapping, recoating, re-filling and disinfection of tank interior, CIP	LS	1		
25.51	Site earthwork and grading for sub-foundation, pads and driveways, incl. all earthwork and imported fill material within the ROW for the new and existing tanks not separately listed, per plans, specifications and geotechnical report, CIP. Excludes surfacing material and riprap.	LS	1		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.52	Ojo Encino site piping, incl. all new pipe, 14-inch stub out for future Reach 26.1, tapping saddles, appurtenances and fittings, abandonment/ replacement of existing facilities, and all other plumbing components within the Ojo Encino site ROW not separately listed, CIP. Excludes gate valves, butterfly valves, check valves, altitude valves, air valves, and 14-inch main line shown on P&P sheets.	LS	1		
25.53	Disinfection, filling, and bacteriological testing of new 100,000 gallon tank, CIP	LS	1		
25.54	Disinfection, filling, and bacteriological testing of new 300,000 gallon tank, CIP	LS	1		
Chlorination Facilities at Ojo Encino Tank Site					
25.55	Chlorinator building, (incl. prefab concrete bldg, doors, hardware, floor drains, sub-foundation, walkway concrete work, and all structural elements), CIP	LS	1		
25.56	Chlorinator plumbing, (incl. all pipes, fittings, valves, electronic flow control valves with valve controllers, pumps with appurtenances, hydropneumatic tanks, gauges, and other equipment not separately listed), CIP	LS	1		
25.57	Gas chlorination equipment, (incl. gas cylinders, gas regulators, proportional flow gas control panel, injector, chain brackets, gas detectors with auto-test, and all other gas-phase components not separately listed), CIP	LS	1		
General Site Work					
25.58	Site and driveway surfacing with 2-inch gravel and 6-inch base course, CIP	Sq Yd	6,340		
25.59	2-inch Gravel over existing grade, CIP	Sq Yd	965		
25.60	Fencing (8 ft. with 3-strand barbed wire), incl. three 20' double swinging gates and removal of existing fence and gates, CIP	LF	2,105		
25.61	18-inch Corrugated metal culvert, incl. end sections and markers, CIP	LF	90		
25.62	30-inch Corrugated metal culvert, incl. end sections and markers, CIP	LF	100		
Road and Gas Line Crossings					
25.63	Open cut road crossing, incl. 20-inch dia. 0.375 wall steel casing and end seals, CIP. Excludes carrier pipe.	LF	440	Unit Price per 24.17	

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.64	Gas/petroleum line crossing, incl. 20-inch dia. PVC casing, with petroleum-resistant gaskets and end seals, location and exposure of gas lines per gas company requirements, CIP. Covers all collocated petroleum lines. Excludes carrier pipe.	LF	80		
Road and Drainage Improvements					
25.65	BIA Rte. 474 road grading improvements, incl. dirt work, bar ditch, import material, existing berm removal, CIP	LS	1		
25.66	24-inch Corrugated metal culvert, incl. end sections and markers, CIP	LF	380		
Cathodic Protection					
25.67	Cathodic protection of flush valve assemblies, CIP	EA	3		
25.68	Cathodic protection of 14-inch butterfly valve assemblies, CIP	EA	1		
25.69	Cathodic protection of 20-inch steel road casing, CIP	EA	2		
Electrical					
25.70	Counselor tank site electrical (incl. grounding, site wiring, and all other electrical equipment not separately listed), CIP	LS	1		
25.71	Pump & surge tank site electrical (incl. power to pump station and surge tank buildings, primary conduit, guard posts, grounding, control wiring between pump station and surge tank bldg, and all other electrical equipment not separately listed), CIP. Excludes primary pole, primary conductor, transformer and meter provided by utility.	LS	1		
25.72	Ojo Encino tank site electrical (incl. meter pole and socket, power supply, grounding, wiring, and all other electrical equipment not separately listed), CIP. Excludes primary pole, primary conductor, and meter.	LS	1		
25.73	Surge tank building electrical (incl. power, main disconnect, breakers, lightning protection, grounding, alarm system, solenoid system, control wiring, pressure transducers, lighting, HVAC, TVSS, and all other electrical equipment not separately listed, CIP	LS	1		
25.74	Pump station building electrical, incl. power supply, exterior main disconnect, TVSS, alarm system, lightning protection, SCADA panel, SCADA connection and all other electrical equipment not separately listed or included in pump station bid item, CIP. Excludes electrical components included in pre-fab pump station bid item.	LS	1		

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.75	Chlorination building electrical, incl. gas cylinder scales with digital display, disconnect, breakers, lightning protection, TVSS, electronic meters, transducers, motors, panels, transformers, controls, wiring, lighting, HVAC, grounding, and all other electrical equipment not separately listed, CIP	LS	1		
25.76	SCADA equipment for pump station site and Ojo Encino tank site, including radios, RTU/PLCs, antennas, antenna masts, and all other SCADA equipment not separately listed, CIP	LS	1		
25.77	SCADA programming allowance, programming sub-contractor to be selected by Owner, CIP	Allow	1	\$10,000.00	\$10,000.00
25.78	Altitude valve vault electrical, incl. pressure transducers, all electrical appurtenances, grounding, and wiring, CIP	EA	2		

REACH 25 SUBTOTAL: \$ _____

TOTAL OF BASE BID: \$ _____

Tax not included

(Including both Reach 24.1 and Reach 25)

IN WORDS: _____

BID ALTERNATES

Note: Tax not included.

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
25.40A	1,000,000 gallon water storage tank and cathodic protection system, glass-fused bolted steel with passive anode CP per Section 33 16 21, including installation, energizing, adjusting, and testing, CIP	LS	1		
25.46A	100,000 gallon water storage tank and cathodic protection system, glass-fused bolted steel with passive anode CP per Section 33 16 21, including installation, energizing, adjusting, and testing, CIP	LS	1		
25.48A	300,000 gallon water storage tank and cathodic protection system, glass-fused bolted steel with passive anode CP per Section 33 16 21, including installation, energizing, adjusting, and testing, CIP	LS	1		

TOTAL OF BID WITH BID ALTERNATES: \$ _____
Tax not included
(Including Base Bid total, substituting Bid Alternate items 25.40A, 25.46A and 25.48A for Base Bid items 25.40, 25.46 and 25.48, respectively)

IN WORDS: _____

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. Bidder's Qualifications Statement with Supporting Data;
 - C. List of Proposed Subcontractors;
 - D. List of Proposed Equipment Manufacturers;
 - E. Navajo Nation Certification Regarding Debarment and Suspension;
 - F. Affidavit of Responsibility for Subcontractors;
 - G. Affidavit of Non-Collusion;
 - H. New Mexico Contractor's License No.: _____; and
 - I. Documentation of eligibility for Indian preference status (if applicable).

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

Bidder acknowledges that the document known as EJCDC® C-700, Standard General Conditions for the Construction Contract, published by the Engineers Joint Contract Documents Committee® has been substantially modified by the Owner and such modified document has been given the label of "C-700 NN" and forms part of the present Agreement.

Yes _____
No _____

Bidder hereby attests that Bidder is in good standing with the State of New Mexico and the Navajo Nation, and will provide such certification if selected for Contract award following the bidding process and prior to execution of the Contract.

Yes _____

No _____

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Is Bidder eligible for Indian Preference as defined in the Instructions to Bidders?

Yes _____

No _____

If yes, attach documentation of Indian Preference eligibility.

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

BID

Bid Due Date:

Description (*Project Name— Include Location*):

BOND

Bond Number:

Date:

Penal sum

\$

(Words)

(Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER

SURETY

(Seal)

(Seal)

Bidder's Name and Corporate Seal

Surety's Name and Corporate Seal

By:

Signature

By:

Signature (Attach Power of Attorney)

Print Name

Print Name

Title

Title

Attest:

Signature

Attest:

Signature

Title

Title

Note: Addresses are to be used for giving any required notice.

Provide execution by any additional parties, such as joint venturers, if necessary.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2 All Bids are rejected by Owner, or
 - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

LIST OF PROPOSED SUBCONTRACTORS

The following listing must be completed and signed by the Bidder and submitted with the Bid Proposal. Bids submitted without this completed and signed listing or with more than one listed for each item may be considered non-responsive. The subcontractor listing threshold shall be as indicated in the Instructions to Bidders. If none of the work will be subcontracted, Bidder shall write "NONE", sign the sheet, and include with Bid to avoid being found non-responsive.

The General Contractor will determine categories of work that will be performed by the General Contractor, Subcontractors, and Tiers of Subcontractors. The following will be employed to perform the designated categories of work under this Contract.

Prior to award of the contract to the lowest qualified Bidder, the Contractor may be required to supply additional information regarding the Subcontractors listed below, as called for in the Instructions to Bidders, Bidder's Qualifications Statement, and in the technical specifications.

Contractor shall not substitute any person as Subcontractor in place of those identified on this form without prior approval from Owner.

* Category of Work	Firm Name and Business Address, Phone # and License Number of Subcontractors	** Range

* Category of Work	Firm Name and Business Address, Phone # and License Number of Subcontractors	** Range

Attest: _____

Authorized Officer

Name and Title

Name of Firm

Date

C = Equal to or greater than \$250,000

LIST OF PROPOSED EQUIPMENT MANUFACTURERS

The following listing of material and/or equipment manufacturers must be completed and signed by the Contractor and submitted with the Bid Proposal. Bids submitted without this completed and signed listing or with more than one manufacturer listed for the same equipment may be considered non-responsive.

MATERIAL/EQUIPMENT	MANUFACTURER
Pre-Manufactured Pump Station	
Surge Tanks	
Water Storage Tanks	
Water Storage Tank Coatings	
Water Storage Tank Cathodic Protection	
Fusible PVC Pipe and Sweeps	
Butterfly Valves	
Gate Valves	
Combination Air-Vacuum Valves	
Vacuum Relief Assembly Valves	
Altitude Valves	
Check Valves	
PVC Ball Valves (3-way)	
Cathodic Protection of Valves & Fittings	
Gas Chlorination System, incl. Electronic Gas Controller, Injector, Regulator, etc.	
4-in. Electronic Control Valve & Controller	
Chlorine Feed Booster Pump	

MATERIAL/EQUIPMENT	MANUFACTURER
Chlorine Gas Scale	
Chlorine Gas Detector	
4-in. Magnetic Flow Meter	
Pre-cast Concrete Chlorinator Building	
SCADA Equipment	

Bidder's Name: _____

By (Signature): _____

Print or Type Name and Title: _____

BIDDER'S QUALIFICATIONS STATEMENT

Important Note:

Completion of this statement is required of all Bidders and must be submitted together with the Bid, as stipulated in the Instructions to Bidders.

Project Title: Navajo Gallup Water Supply Project Reaches 24.1 & 25

Submitted By: _____

(Print or Type Name of Bidder)

Address: _____

The undersigned certifies the truth and correctness of all statements and of all answers to questions made hereinafter. Use additional sheets for any responses, as necessary.

1. How many years has your organization been in business as a utilities contractor? _____
2. How many years has your organization been in business under its present name? _____
3. If a corporation, answer the following:
 - a. Date of Incorporation: _____
 - b. State of Incorporation: _____
 - c. President's Name: _____
 - d. Vice President's Name: _____
 - c. Secretary or Clerk's Name: _____
 - d. Treasurer's Name: _____
4. If individual or partnership, answer the following:
 - a. Date of Organization: _____
 - b. Name and Address of all Partners:
(State if general or limited partnership)

5. If other than corporation or partnership, describe organization and name principals. _____
- _____
- _____
- _____
- _____
- _____
6. Do you plan to subcontract any part of this Project. _____ if so, briefly describe below and identify subcontractors on the List of Proposed Subcontractors form included in these Contract Documents, that meet the listing threshold. _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
7. Has any construction contract to which you have been a party been terminated by the owner; have you ever terminated work on a project prior to its completion for any reason; has any surety which issued a performance bond on your behalf ever completed the work in its own name or financed such completion on your behalf; has any surety expended any monies in connection with the contract for which they furnished a bond on your behalf; have you been late in completing a project during the last five years resulting in the assessment of liquidated damages? If the answer to any portion of this question is "yes", please furnish details of all such occurrences including name of owner, architect or engineer, and surety, and name and date of project. _____
- _____
- _____
- _____
- _____
- _____
- _____

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12. List the states and categories of construction in which your organization is legally qualified to do business. Include all license classifications your organization possesses in the State of New Mexico, as stipulated in the New Mexico Administrative Code (NMAC), Title 14, Chapter 6, Part 6. _____

13. List name, address, and telephone number of an individual who represents each of the following and who may be contacted for a financial reference.
- a. A surety: _____

- b. A bank: _____

- c. A major material supplier: _____

14. The Owner may require the low Bidder to submit a financial statement, prepared on an accrual basis in a form that clearly indicates Bidder's assets, liabilities and net worth, prior to issuance of the Notice of Award.

Dated this _____ day of _____ 20_____

Bidder: _____
(Print or Type Name of Bidder)

By: _____

Title: _____

(Seal, if Corporation)

NOTICE OF AWARD

Date of Issuance:

Owner: Navajo Nation Owner's Contract No.:
Engineer: Souder, Miller & Associates Engineer's Project No.: 6921307
Project: Navajo Gallup Water Supply Project Contract Name:
Reaches 24.1 & 25

Bidder:

Bidder's Address:

TO BIDDER:

You are notified that Owner has accepted your Bid dated [] for the above Contract, and that you are the Successful Bidder and are awarded a Contract for:

[describe Work, alternates, or sections of Work awarded]

The Contract Price of the awarded Contract is: \$ [] *[note if subject to unit prices, or cost-plus]*

[] unexecuted counterparts of the Agreement accompany this Notice of Award, and one copy of the Contract Documents accompanies this Notice of Award, or has been transmitted or made available to Bidder electronically. *[revise if multiple copies accompany the Notice of Award]*

☐ a set of the Drawings will be delivered separately from the other Contract Documents.

You must comply with the following conditions precedent within 10 days of the date of receipt of this Notice of Award:

1. Deliver to Owner [] counterparts of the Agreement, fully executed by Bidder.
2. Deliver with the executed Agreement(s) the Contract security *[e.g., performance and payment bonds]* and insurance documentation as specified in the Instructions to Bidders and General Conditions, Articles 2 and 6.
3. Other conditions precedent (if any):

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Owner:

Authorized Signature

By:

Title:

Copy: Engineer

**AGREEMENT
BETWEEN OWNER AND CONTRACTOR FOR
CONSTRUCTION CONTRACT (STIPULATED PRICE)**

Prepared by



Issued and Published Jointly by



AGREEMENT
BETWEEN OWNER AND CONTRACTOR
FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

Contract No. _____
Business Unit No. _____

THIS AGREEMENT is by and between the Navajo Nation through its Water Management Branch ("Owner") and _____ ("Contractor") (collectively "the parties"). The Owner and Contractor agree as follows:

ARTICLE 1 – WORK

1.01 Contractor shall complete all Work as specified on the Bid Form and elsewhere in the Contract Documents.

ARTICLE 2 – THE PROJECT

2.01 The Project, of which the Work under the Contract Documents is a part, is generally described as follows: Navajo Gallup Water Supply Project Reaches 24.1 & 25.

ARTICLE 3 – ENGINEER

3.01 The Project has been designed by Souder, Miller & Associates.

3.02 The Owner has retained Souder, Miller & Associates ("Engineer") to act as Owner's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 – CONTRACTOR ENTITIES AND PERSONS

The following named single business entity, or two or more business entities has/have submitted a single bid for consideration for a contract award for the project, and shall execute this contract:

A. _____
Name of Business Entity Address of Business Entity

Individual with Business Entity Individual's Title

Individual's/Business Entity's Role in Project

This individual has signature authority to legally bind the business entity: yes / no

B.

Name of Business Entity Address of Business Entity

Individual with Business Entity Individual's Title

Individual's/Business Entity's Role in Project

This individual has signature authority to legally bind the business entity: yes / no

C.

Name of Business Entity Address of Business Entity

Individual with Business Entity Individual's Title

Individual's/Business Entity's Role in Project

This individual has signature authority to legally bind the business entity: yes / no

ARTICLE 5 – CONTRACT TIMES

5.01 *Commencement of the Work*

- A. The Contractor shall not commence performance of any work or the provision of any services under this Contract until (A) Owner issues a formal "Notice to Proceed" for the Project; (B) All insurance and bonding required by this Contract are in full force and effect; and (C) Owner has received copies of all insurance policies and bonds.

5.02 *Time of the Essence*

- A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

5.03 *Contract Times*

- A. The Contract Times shall be the following:
1. The Work will be substantially completed within 270 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of EJCDC C-700 NN and ready for final payment in accordance with Paragraph 15.06 of EJCDC C-700 NN within 300 calendar days after the date when the Contract Times commence to run.

5.04 *Liquidated Damages*

- A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 5.02 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the times specified in Paragraph 5.03 above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expense, and difficulties involved in proving a legal or arbitration proceeding and the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. Substantial Completion: Contractor shall pay Owner \$1,000.00 for each day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 5.03.A above for Substantial Completion until the Work is substantially complete.
2. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner \$1,000.00 for each day that expires after such time until the Work is completed and ready for final payment.
3. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.

ARTICLE 6 – CONTRACT PRICE

6.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to the availability of funds, as described below: *For all Work in accordance with the prices stated in the Contractor's Bid, attached hereto as an exhibit., with an estimated total of all unit price work equivalent to _____, plus 5% Navajo Nation Sales Tax equivalent to _____, resulting in a Total Net Contract Value of _____.*

6.02 Availability of Funds

- A. Appropriations required: Pursuant to 2 N.N.C. § 223(A), the obligation of the Navajo Nation to pay Contractor the entire Contract Amount, or any portion thereof as invoiced, or any amounts under any and all Change Orders, amendments, or modifications to this Contract, shall be contingent upon the availability of funds, from whatever source, at the time payment to the Contractor is due. Any available funds must be appropriated or allocated specifically for the Project which is the subject of this Contract.
- B. Subsequent fiscal periods: Pursuant to 12 N.N.C. § 350(D), if funds adequate to support continuation of performance under this Contract are not appropriated or otherwise become unavailable during any fiscal period(s) subsequent to that period in which this Contract is entered into, then this Contract may be cancelled at the sole discretion of the Navajo Nation, but no sooner than fourteen (14) business days following the Navajo Nation's notification to Contractor of cancellation.
- C. Payment upon cancellation: In the event of such cancellation, Contractor shall be reimbursed only for the reasonable value of any non-recurring costs incurred on account of work performed or services provided under this Contract up to the date of notification of cancellation, whether or not invoice(s), billing(s), or payment application(s) have been received by the Navajo Nation for such work or services prior to the date of cancellation, except for costs amortized in the price of such work or services.

ARTICLE 7 – PAYMENT PROCEDURES

7.01 Submittal and Processing of Payments

- A. Contractor shall submit the EJCDC C-620 "Application for Payment" form in accordance with Article 15 of the EJCDC C-700 NN. Applications for Payment will be processed by Engineer as provided in the EJCDC C-700 NN.

- B. Contract Number: This Contractor shall be assigned a Contract Number by the Navajo Nation Division of Finance, which number shall be shown on the front page of this Contract. Reference to the Contract Number shall be indicated on all invoices submitted to the Navajo Nation for payment, and reference to the Project and Business Unit Number for each payment shall be on all invoices submitted by the Contractor to the Navajo Nation.
- C. A total of forty-five (45) days is required to process any payment related to the Work. Therefore any provision in EJCDC C-700 NN which references a ten (10) day and/or thirty (30) day allowable period for Owner to effect payment shall hereby be changed to a forty-five (45) day payment terms.

7.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the 25th day of each month during performance of the Work as provided in Paragraph 7.02A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the EJCDC C-700 NN (and in the case of Unit Price Work based on the number of units completed) or as provided elsewhere in the Contract.
 - 1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract.
 - a. Federal Funded Construction
 - 1) 95 percent of Work completed (with the balance being retainage); and
 - 2) 95 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
 - 3) Retainage of 5 percent will only be held on portions of the Work financed with Federal funds. Withholding and release of said Retainage will occur as described in Paragraph 7.02.A.1.a.3 above.
 - B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts set off by Owner pursuant to Paragraph 15.01.E of the EJCDC C-700 NN, and less 100 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

7.03 *Final Payment*

- A. Upon final completion and acceptance of the Work in accordance with Paragraph 15.06 of the EJCDC C-700 NN, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 15.06.
- B. Final completion and acceptance of the Work shall be contingent upon acceptance and execution of a Utility Transfer Agreement by NTUA. A blank Utility Transfer Agreement is included in Appendix F of the Contract Documents.

ARTICLE 8 – INTEREST

8.01 All amounts not paid when due shall bear no interest.

ARTICLE 9 – CONTRACTOR’S REPRESENTATIONS

9.01 In order to induce Owner to enter into this Contract, Contractor makes the following representations:

- A. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.
- B. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Contractor is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Technical Specifications, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Contract Documents, especially with respect to Technical Data in such reports and drawings.
- E. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (3) Contractor’s safety precautions and programs.
- F. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
- G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- J. Contractor’s entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Contract are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 10 – CONTRACT DOCUMENTS

10.01 Contents

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages 1 to 9, inclusive).
 - 2. Performance bond (pages 1 to 3, inclusive).
 - 3. Payment bond (pages 1 to 3, inclusive).
 - 4. Contractor's Bid Form [EJCDC C-410] (pages 1 to 13, inclusive), plus required attachments to the Bid as stipulated in Article 7 of the Bid Form.
 - 5. Standard General Conditions and Navajo Nation Supplemental Conditions of the Construction Contract [EJCDC C-700 NN].
 - 6. Appendices as listed in the Index to Appendices of the Project Manual.
 - 7. Technical Specifications as listed in the table of contents of the Project Manual.
 - 8. Drawings (not attached but incorporated by reference) as listed in the Index to Design Drawings of the Project Manual.
 - 9. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
 - a. Notice to Proceed.
 - b. Work Change Directives.
 - c. Change Orders.
 - d. Field Orders.
 - 10. Addenda (numbers ____ to ____, inclusive)
- B. The Contract Documents may only be amended, modified, or supplemented as provided in the EJCDC C-700 NN.

ARTICLE 11 – MISCELLANEOUS

11.01 Terms

Terms used in EJCDC C-520 will have the meanings stated in EJCDC C-700 NN.

11.02 Severability

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

11.03 Other Provisions

- A. Owner and all interested parties acknowledge that the document known as EJCDC® C-700, Standard General Conditions for the Construction Contract, published by the Engineers Joint Contract Documents Committee® has been substantially modified by the Owner and

such modified document has been given the label of "C-700 NN" and forms part of the present Contract.

[Signatures contained on next page.]

IN WITNESS WHEREOF, Owner and Contractor have signed this Contract.

This Contract will be effective on _____ (which is the Effective Date of the Contract).

OWNER:

CONTRACTOR:

By: Ben Shelly

By: _____

Title: President, the Navajo Nation

Title: _____

(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Address for giving notices:

Navajo Nation Department of Water Resources

P.O. Drawer 678

Fort Defiance, Arizona 86504

Address for giving notices:

License No.: _____

(where applicable)

Pursuant to 1 N.N.C. §554(J)(2) and (K)(2), Navajo Nation Department of Justice approval is required for all agreements that include a limited waiver of sovereign immunity to compel or enforce arbitration under the Navajo Nation Arbitration Act, as amended, 7 N.N.C. §1101 et seq.

Navajo Nation Department of Justice

NOTICE TO PROCEED

Owner:	Navajo Nation	Owner's Contract No.:	
Contractor:		Contractor's Project No.:	
Engineer:	Souder, Miller & Associates	Engineer's Project No.:	6921307
Project:	Navajo Gallup Water Supply Project Reaches 24.1 & 25	Contract Name:	
		Effective Date of Contract:	

TO CONTRACTOR:

Owner hereby notifies Contractor that the Contract Times under the above Contract will commence to run on [REDACTED], 20[REDACTED]. *[see Paragraph 4.01 of the General Conditions]*

On that date, Contractor shall start performing its obligations under the Contract Documents. No Work shall be done at the Site prior to such date. In accordance with the Agreement, [the date of Substantial Completion is _____, and the date of readiness for final payment is _____] **or** [the number of days to achieve Substantial Completion is _____, and the number of days to achieve readiness for final payment is _____].

Before starting any Work at the Site, Contractor must comply with the following:

[Note any access limitations, security procedures, or other restrictions]

Owner:

Authorized Signature

By:

Title:

Date Issued:

Copy: Engineer

PERFORMANCE BOND

CONTRACTOR *(name and address):*

SURETY *(name and address of principal place of business):*

OWNER *(name and address):*

CONSTRUCTION CONTRACT

Effective Date of the Agreement:

Amount:

Description *(name and location):*

BOND

Bond Number:

Date *(not earlier than the Effective Date of the Agreement of the Construction Contract):*

Amount:

Modifications to this Bond Form: ☐ None ☐ See Paragraph 16

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

Contractor's Name and Corporate Seal

Surety's Name and Corporate Seal

By: _____
Signature

By: _____
Signature *(attach power of attorney)*

Print Name

Print Name

Title

Title

Attest: _____
Signature

Attest: _____
Signature

Title

Title

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2. If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Paragraph 3.

3. If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after:

3.1 The Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor, and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Paragraph 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor, and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

3.2 The Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

3.3 The Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

4. Failure on the part of the Owner to comply with the notice requirement in Paragraph 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

5. When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owners concurrence,

to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:

5.4.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

5.4.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

6. If the Surety does not proceed as provided in Paragraph 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Paragraph 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

7. If the Surety elects to act under Paragraph 5.1, 5.2, or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication for:

7.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

7.2 additional legal, design professional, and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 5; and

7.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

8. If the Surety elects to act under Paragraph 5.1, 5.3, or 5.4, the Surety's liability is limited to the amount of this Bond.

9. The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors, and assigns.

10. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

11. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum periods of limitations available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

14. Definitions

14.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made including allowance for the Contractor for any amounts received or to be received by the Owner in settlement of insurance or other claims

for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

14.2 Construction Contract: The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

14.3 Contractor Default: Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

14.4 Owner Default: Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

14.5 Contract Documents: All the documents that comprise the agreement between the Owner and Contractor.

15. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

16. Modifications to this Bond are as follows:

PAYMENT BOND

CONTRACTOR *(name and address):*

SURETY *(name and address of principal place of business):*

OWNER *(name and address):*

CONSTRUCTION CONTRACT

Effective Date of the Agreement:

Amount:

Description *(name and location):*

BOND

Bond Number:

Date *(not earlier than the Effective Date of the Agreement of the Construction Contract):*

Amount:

Modifications to this Bond Form: ☐ None ☐ See Paragraph 18

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

(seal)

Contractor's Name and Corporate Seal

By: _____

Signature

Print Name

Title

Attest: _____

Signature

Title

(seal)

Surety's Name and Corporate Seal

By: _____

Signature *(attach power of attorney)*

Print Name

Title

Attest: _____

Signature

Title

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner to pay for labor, materials, and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.
2. If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies, and holds harmless the Owner from claims, demands, liens, or suits by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.
3. If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 13) of claims, demands, liens, or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, and tendered defense of such claims, demands, liens, or suits to the Contractor and the Surety.
4. When the Owner has satisfied the conditions in Paragraph 3, the Surety shall promptly and at the Surety's expense defend, indemnify, and hold harmless the Owner against a duly tendered claim, demand, lien, or suit.
5. The Surety's obligations to a Claimant under this Bond shall arise after the following:
 - 5.1 Claimants who do not have a direct contract with the Contractor,
 - 5.1.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
 - 5.1.2 have sent a Claim to the Surety (at the address described in Paragraph 13).
 - 5.2 Claimants who are employed by or have a direct contract with the Contractor have sent a Claim to the Surety (at the address described in Paragraph 13).
6. If a notice of non-payment required by Paragraph 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Paragraph 5.1.1.
7. When a Claimant has satisfied the conditions of Paragraph 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:
 - 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - 7.2 Pay or arrange for payment of any undisputed amounts.
 - 7.3 The Surety's failure to discharge its obligations under Paragraph 7.1 or 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Paragraph 7.1 or 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.
8. The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Paragraph 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
9. Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.
10. The Surety shall not be liable to the Owner, Claimants, or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to or give notice on behalf of Claimants, or otherwise have any obligations to Claimants under this Bond.
11. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

12. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Paragraph 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
13. Notice and Claims to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.
14. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
15. Upon requests by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.
16. **Definitions**
- 16.1 **Claim:** A written statement by the Claimant including at a minimum:
1. The name of the Claimant;
 2. The name of the person for whom the labor was done, or materials or equipment furnished;
 3. A copy of the agreement or purchase order pursuant to which labor, materials, or equipment was furnished for use in the performance of the Construction Contract;
 4. A brief description of the labor, materials, or equipment furnished;
 5. The date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
 6. The total amount earned by the Claimant for labor, materials, or equipment furnished as of the date of the Claim;
 7. The total amount of previous payments received by the Claimant; and
8. The total amount due and unpaid to the Claimant for labor, materials, or equipment furnished as of the date of the Claim.
- 16.2 **Claimant:** An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms of "labor, materials, or equipment" that part of the water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.
- 16.3 **Construction Contract:** The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.
- 16.4 **Owner Default:** Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- 16.5 **Contract Documents:** All the documents that comprise the agreement between the Owner and Contractor.
17. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
18. Modifications to this Bond are as follows:

CERTIFICATE OF INSURANCE

Certificate of Insurance to be inserted here. All coverage to be in accordance with and per the limits established in the Standard General Conditions (C-700 NN).

Contractor's Application for Payment No. _____

Application Period:		Application Date:
To (Owner):	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

Application For Payment Change and Field Order Summary

Approved Change and Field Orders			1. ORIGINAL CONTRACT PRICE (w/ tax)	\$
Number	Additions (w/ tax)	Deductions (w/ tax)	2. Net change by Change Orders (w/ tax)	\$
			3. Current Contract Price (Line 1 ± 2) (w/ tax).....	\$
			4. TOTAL COMPLETED AND STORED TO DATE (w/ tax)	
			(Column F total on Progress Estimates).....	\$
			5. RETAINAGE (w/ tax):	
			a. 5% X Total Completed and Stored (line 4)	\$
			b. ____% X	\$
			c. Total Retainage (Line 5.a + Line 5.b).....	\$
			6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c) (w/ tax).....	\$
			7. LESS PREVIOUS PAYMENTS (Line 6 from prior App) (w/ tax).....	\$
			8. AMOUNT DUE THIS APPLICATION (w/ tax).....	\$
			9. NN SALES TAX @ 5%	\$
			10. TOTAL AMOUNT DUE (w/o tax)	\$
			11. BALANCE TO FINISH, PLUS RETAINAGE (w/ tax)	
			(Column G total on Progress Estimates + Line 5.c above).....	\$

Contractor's Certification	
The undersigned Contractor certifies, to the best of its knowledge, the following:	
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;	
(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and	
(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.	
Contractor Signature	
By:	Date:

Payment of:	\$	Line 8 - includes amount to be paid Contractor (line 10) plus amount to be paid NN Tax Commission (line 9)
is recommended by:	_____ (Engineer)	_____ (Date)
Payment of:	\$	Line 8 - includes amount to be paid Contractor (line 10) plus amount to be paid NN Tax Commission (line 9)
is approved by:	_____ (Owner)	_____ (Date)
Approved by:	_____ Funding or Financing Entity (if applicable)	_____ (Date)

Progress Estimate - Unit Price Work

Contractor's Application

[illegible]

Stored Material Summary

Contractor's Application

[illegible]

CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner: Navajo Nation	Owner's Contract No.:
Contractor:	Contractor's Project No.:
Engineer: Souder, Miller & Associates	Engineer's Project No.: 6921307
Project: Navajo Gallup Water Supply Project Reaches 24.1&25	Contract Name:

This [preliminary] [final] Certificate of Substantial Completion applies to:

☐ All Work ☐ The following specified portions of the Work:

Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor, and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Work or portion thereof designated above is hereby established, subject to the provisions of the Contract pertaining to Substantial Completion. The date of Substantial Completion in the final Certificate of Substantial Completion marks the commencement of the contractual correction period and applicable warranties required by the Contract.

A punch list of items to be completed or corrected is attached to this Certificate. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract.

The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance, and warranties upon Owner's use or occupancy of the Work shall be as provided in the Contract, except as amended as follows: *[Note: Amendments of contractual responsibilities recorded in this Certificate should be the product of mutual agreement of Owner and Contractor; see Paragraph 15.03.D of the General Conditions.]*

Amendments to Owner's responsibilities: ☐ None
☐ As follows

Amendments to Contractor's responsibilities: ☐ None
☐ As follows:

The following documents are attached to and made a part of this Certificate: *[punch list; others]*

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract.

EXECUTED BY ENGINEER:	RECEIVED:	RECEIVED:
By: _____ (Authorized signature)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)
Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____

STANDARD GENERAL CONDITIONS AND NAVAJO NATION SUPPLEMENTAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by



Issued and Published Jointly by



**STANDARD GENERAL CONDITIONS AND NAVAJO NATION
SUPPLEMENTAL CONDITIONS
OF THE CONSTRUCTION CONTRACT**

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ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

- A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
 2. *Agreement*—Shall have the same meaning as Contract.
 3. *Application for Payment*—The document acceptable to Engineer which is to be used by Contractor during the course of the Work, to request progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents or by the Owner.
 4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the Bidder's firm proposed price for the Work to be performed.
 5. *Bidder*—An individual or business entity that submits a Bid to Owner.
 6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
 7. *Bidding Requirements*—The advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.
 8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.
 9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
 10. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5501 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, state, or Navajo Nation statute, law, rule, regulation, ordinance, resolution, code, order, policy, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

11. *Contract*—The entire and integrated written contract between the Owner and Contractor concerning the Work.
12. *Contract Documents*—All documents listed in EJCDC Document C-520 “Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)” Article 10.
13. *Contract Price*—The money that Owner has agreed to pay Contractor for satisfactory completion of the Work in accordance with the Contract Documents, including all Change Orders, if any.
14. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.
15. *Contractor*—The individual or business entity that has entered into the Contract with the Owner for performance of the Work.
16. *Contractor’s Claim* - A written document issued by the Contractor, duly submitted to the Owner and Engineer in compliance with the procedural requirements set forth herein, submitted for purposes of: (1) contesting the Engineer’s decision regarding a Change Proposal; or (2) seeking resolution of a contractual issue that the Engineer has declined to address; or (3) seeking other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Contractor’s Claim.
17. *Cost of the Work*—See Paragraph 13.01 for definition.
18. *Drawings*— The part of the Contract Documents that have been prepared and stamped by the Engineer, graphically showing the scope, extent, and character of the Work to be performed by Contractor.
19. *Effective Date of the Contract*—The date indicated in the Contract on which the Contract becomes effective.
20. *Engineer*—The individual or entity named as such in the Contract.
21. *Field Order*— A written order issued to the Contractor by the Engineer which requires the Contractor to perform changes in the Work for the Project, but does not change the Contract Price or the Contract Times, and therefore does not require a Change Order.
22. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, does not establish a Hazardous Environmental Condition.
23. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction over the Project.
24. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.

25. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date or by a time prior to Substantial Completion of all the Work.
26. *Notice of Award*— A written notice issued by the Owner to a selected Bidder, notifying the Bidder that its Bid has been accepted by the Owner. A Notice of Award does not constitute a promise of Contract Award by the Owner, and the Contractor is not guaranteed a Contract Award until a Contract is duly executed by the Navajo Nation.
27. *Notice to Proceed*— A written notice by Owner to the Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall commence its performance of the Work.
28. *Owner*—The Navajo Nation.
29. *Owner's Claim* - A written document issued by the Owner, duly submitted to the Contractor and Engineer in compliance with the procedural requirements set forth herein, submitted for purposes of: (1) contesting an initial decision by the Engineer concerning the requirements of the Contract Documents or the acceptability of the Contractor's Work under the Contract Documents; or (2) contesting the Engineer's decision regarding a Change Proposal; or (3) seeking resolution of a contractual issue that the Engineer has declined to address; or (4) seeking other relief with respect to the terms of the Contract.
30. *Progress Schedule*—A time schedule, prepared and maintained by the Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to complete the Work within the Contract Times, including descriptions and dates of Milestones.
31. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, which includes activities such as planning, study, design, construction, testing, commissioning, mobilization and start-up, among others, and which is the subject of the Contract Documents and the Work under this Contract.
32. *Project Manual*—The Package containing all information, terms, and conditions governing the Invitation to Bid, including, but not limited to, Instructions to Bidders, Bid Bond Form, Bid Form, and the Contract Documents.
33. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative or "RPR" includes any assistants or field staff of Resident Project Representative.
34. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.
35. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer's review of the submittals and the performance of related construction activities.
36. *Schedule of Values*—A breakdown or detailed listing of specific fees, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
37. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and

submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.

38. *Site*—The land upon which the Work is to be performed, and the Project is to be located, including rights-of-way and easements, if any, necessary appurtenant lands. The Site includes any appurtenant premises that the Owner permits the Contractor to use or occupy for a temporary period of time, only as necessary for performance of the Work and completion of the Project.
39. *Specifications*—The part of the Contract that consists of written requirements for goods, materials, equipment, systems, supplies, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
40. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
41. *Substantial Completion*—The time at which the Work (or a specified part thereof as determined by the Engineer and approved by the Owner) has progressed to the point where, in the opinion of the Owner, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion thereof.
42. *Selected Contractor*—The Bidder whose Bid the Owner accepts, and to which the Owner makes an award of contract.
43. *Supplier*—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish goods, supplies, materials or equipment to be incorporated in the Work.
44. *Technical Data*—Those items expressly identified as Technical Data in the Project Manual, with respect to either (a) subsurface conditions at the Site, or physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) or (b) Hazardous Environmental Conditions at the Site. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then the data contained in boring logs, recorded measurements of subsurface water levels, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical or environmental report prepared for the Project and made available to Contractor are hereby defined as Technical Data with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06.
45. *Underground Facilities*—All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including but not limited to those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, fiber optic transmissions, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
46. *Unit Price Work*— Specific incremental portions of the Work for the Project that are assigned a specific price by the Contractor and that the Contractor requests the Owner to pay in separate increments.

47. *Work*—The entire construction of the Project, or the various separately identifiable parts thereof, that are required to be provided under the Contract Documents, and documentation necessary to complete construction of the Project; furnishing, installing, and incorporating all goods, supplies, materials and equipment into such construction; and may include related services such as testing, start-up, mobilization and commissioning, as necessary for complete and satisfactory performance of the Work.
48. *Work Change Directive*—A written directive to Contractor issued by the Engineer on or after the Effective Date of the Contract, authorized by the Owner, ordering an addition, deletion, or revision in the Work, which will be incorporated in a subsequently issued Change Order.

1.02 Terminology

- A. The words and terms discussed in the following paragraphs are not defined but, when used in the Project Manual or Contract Documents, have the indicated meaning.
- B. *Intent of Certain Terms or Adjectives:*
1. The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory” or similar adjectives, are used herein to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 10 or any other provision of the Contract Documents, except as specifically provided in the Contract between the Owner and the Engineer.
- C. *Day:*
1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.
- D. *Defective:*
1. The word “defective,” when modifying the word “Work,” refers to Work that is determined, in the judgment of the Engineer, to be unsatisfactory, faulty, or deficient in that it:
 - a. does not conform to the Contract Documents; or
 - b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
 - c. has been damaged prior to Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or 15.04).

E. *Furnish, Install, Perform, Provide:*

1. The word “furnish,” when used in connection with goods, supplies, services, materials, or equipment, shall mean to supply and deliver said goods, supplies, services, materials, or equipment to the Site ready for use or installation and in usable or operable condition.
2. The word “install,” when used in connection with goods, supplies, services, materials, or equipment, shall mean to put into use or place in final position said goods, supplies, services, materials, or equipment complete and ready for intended use.
3. The words “perform” or “provide,” when used in connection with goods, supplies, services, materials, or equipment, shall mean to furnish and install said goods, supplies, services, materials, or equipment complete and ready for intended use.
4. If the Contract Documents establish an obligation of Contractor with respect to specific goods, supplies, services, materials, or equipment, but do not expressly use any of the four words “furnish,” “install,” “perform,” or “provide,” then the Contractor shall furnish and install said goods, supplies, services, materials, or equipment complete and ready for intended use.

- F. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 – PRELIMINARY MATTERS

2.01 *Licensing and Registration Requirements*

- A. *State license required:* As an express condition of the award of this Contract, at least one of the Contractor’s individual owners, co-owners, principals, partners, managers, team members, officers, employees, or subcontractors, as identified in EJCDC C-520 “Agreement Between Owner and Contractor” (herein “EJCDC C-520”) Article 4, shall provide a current and valid license from an appropriate state licensing board or agency for the type of work to be performed and services to be provided by the Contractor, which license is customarily maintained in the Contractor’s industry (a valid license held by an individual with an ancillary firm shall be acceptable, so long as the provisions of Article 6 herein are satisfied). Each entity or individual listed in EJCDC C-520 Article 4 shall indicate its business name, business address, and state license number. Said license must be issued by the state which is the geographical location of the primary location of the Work. For the entire duration of performance under this Contract, said license must be maintained as active and current and must remain directly associated with a signatory party to this Contract, and failure of such shall be deemed a material breach for which the Navajo Nation may terminate this Contract.
- B. *Business registration required:* Each entity or individual identified in EJCDC C-520 Article 4 shall be registered to do business with an appropriate state agency, as either a domestic or foreign business entity within such state, and each shall indicate its business name, business address, and state business registration number in EJCDC C-520 Article 4. Said registration must be issued by the state which is the primary location of the Work. For the entire duration of performance under this Contract, said registration must be maintained as active and current and must remain directly associated with a signatory party to this Contract, and failure of such shall be deemed a material breach for which the Navajo Nation may terminate this Contract. Each must also comply with the registered agent and

business registration requirements of the Navajo Nation Business Registration Department and be duly approved to engage in business activity within the Navajo (see 5 N.N.C. § 3166, § 3170, § 3171).

2.02 *Debts Owed; Right to Offset*

- A. By execution of this Contract, the Contractor expressly represents to the Owner that the Contractor in its present form or any other identifiable capacity as an individual, business, corporation, partnership, or other entity, has no outstanding money judgment against it in favor of the Owner as defined in 12 N.N.C. § 1503(A), and further represents that there exists no delinquent accounts receivable debt which is due and owing to the Owner as defined in 12 N.N.C. § 1503(A), from the Contractor or other such related individual or entity. The Contractor expressly agrees that, pursuant to 12 N.N.C. § 1507, if the Contractor or other entity owes such debt to the Owner, the Owner may, upon thirty (30) calendar days prior notice to the Contractor, offset its financial claim against any amount owed to the Contractor for work performed or services provided under this Contract.

2.03 *Delivery of Bonds and Evidence of Insurance*

When Contractor delivers the executed counterparts of the Contract to Owner, Contractor shall also deliver to Owner bonds and evidence of insurance as required by Article 6 below.

2.04 *Copies of Documents*

- A. Owner shall furnish to Contractor one executed copy of the Contract. Additional printed copies will be furnished upon request at the cost of reproduction.
- B. Owner shall maintain and safeguard at least one original printed record version of all Contract Documents, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract Documents available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

2.05 *Before Starting Construction*

- A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Contract (or as otherwise specifically required by the Contract Documents), Contractor shall submit to Engineer for timely review:
1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;
 2. a preliminary Schedule of Submittals; and
 3. a preliminary Schedule of Values for all of the Work which includes Unit Price Work and which divides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work.

2.06 *Preconstruction Conference; Designation of Authorized Representatives*

- A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss (1) the schedules referred to in Paragraph 2.05.A, (2) procedures for handling Shop Drawings, Samples, and other submittals, (3) processing Applications for Payment, (4) electronic or digital transmittals, and (5) maintaining required records.

- B. In the Contract, Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.07 *Initial Acceptance of Schedules*

- A. At least 10 days before submission of the first Application for Payment a conference, attended by Contractor, Engineer, and others as appropriate, will be held to review for acceptability to Engineer as provided below, the schedules submitted in accordance with Paragraph 2.05.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until the Engineer approves all submitted schedules.
 - 1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.
 - 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
 - 3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.

2.08 *Electronic Transmittals*

- A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may transmit, and shall accept, Project-related correspondence, text, data, documents, drawings, information, and graphics, including but not limited to Shop Drawings and other submittals, in electronic media or digital format, either directly, or through access to a secure Project website.
- B. If the Contract does not establish protocols for electronic or digital transmittals, then Owner, Engineer, and Contractor shall jointly develop such protocols.
- C. When transmitting items in electronic media or digital format, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the items, or from those established in applicable transmittal protocols.

ARTICLE 3 – DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 *Intent*

- A. The Contract Documents are complementary; what is required by one is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents.
- C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic or digital versions of the Contract Documents (including any printed copies

derived from such electronic or digital versions) and the printed record version, the printed record version shall govern.

- D. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

3.02 *Reference Standards*

A. Standards Specifications, Codes, Laws and Regulations

1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.
2. No provision of any such standard specification, manual, reference standard, or code, or any instruction of a Supplier, shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees, from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner, Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 *Reporting and Resolving Discrepancies*

A. *Reporting Discrepancies:*

1. *Contractor's Verification of Figures and Field Measurements:* Before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or a supplement to the Contract Documents issued pursuant to Paragraph 11.01.
2. *Contractor's Review of Contract Documents:* If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or a supplement to the Contract Documents issued pursuant to Paragraph 11.01.

3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. *Resolving Discrepancies:*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:
 - a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
 - b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Requirements of the Contract Documents*

- A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and shall determine the acceptability of the Work thereunder.
- B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents via a Change Order. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor and the Owner, unless the Contractor appeals by submitting a Change Proposal or unless the Owner appeals by filing an Owner's Claim.
- C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 *Reuse of Documents*

- A. Contractor and its Subcontractors, Suppliers, Laborers, or Employees shall not:
 1. have or acquire any title to or ownership rights in any of the Contract Documents prepared by or bearing the seal of Engineer or its consultants, including electronic media editions, and shall not reuse any of the Contract Documents without written consent of Owner and Engineer and without specific written verification of adaptation by Engineer; or
 2. violate any copyrights pertaining to such Contract Documents.
- B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for recordkeeping purposes.

ARTICLE 4 – COMMENCEMENT AND PROGRESS OF THE WORK

4.01 *Commencement of Contract Times; Notice to Proceed; Starting the Work*

- A. The Contract Times will commence to run on the date identified by the Owner in the Notice to Proceed.
- B. Notwithstanding the Notice to Proceed, Contractor shall not commence any work under this Contract until the effective date of all insurance required by this Contract.

4.02 *Reference Points*

- A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.03 *Progress Schedule*

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.
 - 1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in any change to the Contract Times.
 - 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 11.
- B. Contractor shall carry on the Work uninterrupted, and adhere to the Progress Schedule during all disputes or disagreements with the Owner or Engineer. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree in writing.

4.04 *Delays in Contractor's Progress*

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Times or Contract Price, if such adjustment is necessary to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of any of the Contractor's Subcontractors, Suppliers, Laborers, or Employees shall be deemed to be within the control of Contractor.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is necessary to Contractor's ability to

complete the Work within the Contract Times. Adjustment of the Contract Times shall be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:

1. severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;
 2. abnormal weather conditions;
 3. impeded access to the Project site not caused by either party;
 4. acts or failure to act of utility providers; and
 5. acts of war or terrorism.
- D. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5.
- E. Paragraph 8.03 governs delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.
- F. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor.
- G. Contractor must submit any Change Proposal seeking an adjustment in Contract Price or Contract Times under this paragraph within 30 days of the commencement of the delaying, disrupting, or interfering event.

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 *Availability of Lands*

- A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.
- B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made and Owner's interest therein.
- C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

5.02 *Use of Site and Other Areas*

- A. *Limitation on Use of Site and Other Areas:*
 1. Contractor shall confine construction equipment, temporary construction facilities, the storage of goods, supplies, materials and equipment, and the operations of workers to the Project Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and

Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other goods, supplies, materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.

2. Contractor shall limit its use and occupation of all lands and access roads and areas to what is minimally necessary to perform the Work, so as to keep new land disturbances to a minimum.
 3. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.12, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or at law; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and those identified in Paragraph 7.18.A against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner and those identified in Paragraph 7.18.A to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.
- B. *Removal of Debris During Performance of the Work:* During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.
- C. *Cleaning:* Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work, Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus goods, supplies, and materials and shall restore to original condition all property not designated for alteration by the Contract Documents.
- D. *Loading of Structures:* Contractor shall not load nor permit any part of any existing structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 *Subsurface and Physical Conditions*

- A. *Reports and Drawings:* The Project Manual identifies:
1. those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site;
 2. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities); and

3. Technical Data contained in such reports and drawings.
- B. *Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the accuracy of the Technical Data expressly identified in the Project Manual with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:
1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 3. any Contractor interpretation of, or conclusion drawn, from any Technical Data or any such other data, interpretations, opinions, or information.

5.04 *Differing Subsurface or Physical Conditions*

- A. *Notice by Contractor:* If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site either:
1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate; or
 2. is of such a nature as to require a change in the Drawings or Specifications; or
 3. differs materially from that shown or indicated in the Contract Documents; or
 4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

- B. *Engineer's Review:* After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine the necessity of Owner's obtaining additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A above; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.

- C. *Owner's Statement to Contractor Regarding Site Condition:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.
- D. *Possible Price and Times Adjustments:*
1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, or both, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. such condition must fall within any one or more of the categories described in Paragraph 5.04.A;
 - b. with respect to any Unit Price Work, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.02; and,
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
 2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:
 - a. Contractor knew of the existence of such condition at the time Contractor submitted its Bid or executed this Contract; or
 - b. the existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Project Manual or Contract Documents to be conducted by or for Contractor prior to Contractor submitting its Bid or executing this Contract; or
 - c. Contractor failed to give the written notice as required by Paragraph 5.04.A.
 3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
 4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.

5.05 *Underground Facilities*

- A. *Contractor's Responsibilities:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or adjacent to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Project Manual:

1. Owner and Engineer do not warrant or guarantee the accuracy or completeness of any such information or data provided by others; and
 2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:
 - a. reviewing and checking all information and data regarding existing Underground Facilities at the Site;
 - b. locating all Underground Facilities shown or indicated in the Contract Documents as being at the Site;
 - c. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and
 - d. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.
- B. *Notice by Contractor:* If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer.
- C. *Engineer's Review:* Engineer will promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the Underground Facility in question; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and advise Owner in writing of Engineer's findings, conclusions, and recommendations. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
- D. *Owner's Statement to Contractor Regarding Underground Facility:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question, addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or in part.
- E. *Possible Price and Times Adjustments:*
1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, or both, to the extent that any existing Underground Facility at the Site that was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

- a. Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated the existence or actual location of the Underground Facility in question;
 - b. With respect to any Unit Price, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.02;
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times; and
 - d. Contractor gave the notice required in Paragraph 5.05.B.
2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
 3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.

5.06 *Hazardous Environmental Conditions at Site*

- A. *Reports and Drawings:* The Project Manual shall identify:
 1. those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and
 2. Technical Data contained in such reports and drawings.
- B. *Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the accuracy of the Technical Data expressly identified in the Project Manual with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
 1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or
 2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or
 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.
- C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the Scope of Work for the Project.

- D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.
- E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the Scope of Work for the Project, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner may take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.
- F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.
- G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off.
- H. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.
- I. Contractor shall indemnify and hold harmless Owner and those identified in Paragraph 7.18.A against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.I shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

- J. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6 – BONDS AND INSURANCE

6.01 *Performance, Payment, and Other Bonds*

- A. Contractor shall furnish a performance bond and a payment bond as provided herein.
1. Performance Bond: The Contractor shall provide to Owner a Performance Bond underwritten and executed by a surety company that guarantees the Contractor's complete and satisfactory performance under the Contract. The Performance Bond shall be equal to one hundred percent (100%) of the Original Contract Amount.
 2. Payment Bond: The Contractor shall provide to the Owner a Payment Bond underwritten and executed by a surety company that will protect all persons, subcontractors, or other entities supplying labor and material to the Contractor or its subcontractors for the performance under this Contract. The Payment Bond shall be in an amount equal to one-hundred percent (100%) of the Original Contract Amount. The Payment Bond must be provided in addition to the Performance Bond required in Paragraph 2.03.A herein.
- B. Bond documentation required: The Owner's Representative must receive written documentation of all required bonds prior to the issuance of a Notice to Proceed for the Project, and the Contractor shall not commence any work to be performed or services to be provided under this Contract unless and until such documentation has been submitted to the Owner. If the Contractor is able to furnish such documentation prior to the Owner's execution of this Contract, such documentation shall be made an attachment to the Contract. The Contractor expressly acknowledges that the Owner may terminate this Contract for breach if, subsequent to the final execution of the Contract, any statement or documentation regarding bonding is determined to be false, any bond has expired or been suspended or revoked, or the Contractor has failed to submit in a timely manner any requested documentation pertaining to bonding and that the Owner is unable to issue a Notice to Proceed in a timely manner.
- C. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or its right to do business is terminated, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the bond and surety requirements above.
- D. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner's termination rights under Article 16.
- E. Upon request, Owner shall provide a copy of the payment bond to any Subcontractor, Supplier, or other person or entity claiming to have furnished labor or materials used in the performance of the Work.

6.02 *Insurance*

- A. Contractor shall obtain and maintain insurance as provided herein.
1. Builder's Risk Insurance: Contractor shall obtain, on behalf of the Owner, a "builder's risk" insurance policy for all aspects of the Project; such insurance coverage shall be in amount adequate to cover any potential loss, relating to the Project or any portion

thereof, that may occur prior to the effective date and time of the Owner's property insurance coverage for the Project. The Contract Price may be increased to accommodate the cost of builder's risk insurance if such cost was not included.

2. **Liability Insurance:** The Contractor shall, at its sole expense, procure and maintain adequate and sufficient insurance for all of Contractor's potential liabilities, in accordance with this Paragraph 6.02, relating to any claims by any party for any injury to persons or damage to property arising out of or connected with any work performed or services provided under this Contract by the Contractor; such insurance shall remain in effect for the duration of performance under this Contract up to and including the date and time of issuance of a Certificate of Occupancy for the Project or the until effective date and time of the Contractor's warranty for the Project, whichever occurs last.
3. **Minimum Insurance Coverages:** Contractor shall obtain and maintain minimum coverages shown as follows:
 - a. **Commercial General Liability – ISO CG 0001 Form or equivalent.** Coverages shall include:
 - *Premises and Operations*
 - *Personal/Advertising Injury*
 - *Products/Completed Operations*
 - *Liability assumed under an Insured Contract (including defense costs assumed under contract)*
 - *Broad Form Property Damage*
 - *Independent Contractors/Consultants*
 - b. **Automobile Liability** including all:
 - *Contractor-Owned Vehicles*
 - *Non-owned Vehicles*
 - *Rented/Hired Vehicles*
 - *Personal Injury Protection (where applicable)*
 - c. **Worker's Compensation:**
 - *Statutory Benefits (Coverage A)*
 - *Employers Liability (Coverage B)*
4. **Limits required:** Contractor shall carry the limits of liability shown below ("state Law" means limits shall be in accordance with laws and regulations of the state wherein this Contract shall be primarily performed):

COMMERCIAL GENERAL LIABILITY

GENERAL AGGREGATE	\$	2,000,000
PRODUCTS/COMPLETED OPERATIONS AGGREGATE	\$	2,000,000
OCCURRENCE BASIS/ PER EACH OCCURRENCE LIMIT	\$	1,000,000
PERSONAL/ADVERTISING INJURY	\$	1,000,000

FIRE DAMAGE (ANY ONE FIRE)	\$	50,000
MEDICAL PAYMENTS (ANY ONE PERSON)	\$	5,000
AUTOMOBILE LIABILITY		
BODILY INJURY/PROPERTY DAMAGE (EACH ACCIDENT)	\$	1,000,000
PERSONAL INJURY PROTECTION (IF APPLICABLE)	BY STATE LAW	
WORKERS' COMPENSATION		
COVERAGE A (WORKERS' COMPENSATION)	BY STATE LAW	
COVERAGE B (EMPLOYERS LIABILITY)	\$	500,000
AGGREGATE MINIMUM	\$	2,000,000

5. Claims-made basis: In the event Contractor's liability insurance required by this Contract is written on a claims-made basis, the Contractor shall warrant that any retroactive date under the policy shall precede the effective date of this Contract, and either continuous coverage will be maintained by or an extended discovery period will be exercised for a period of two (2) calendar years beginning as of the date performance is completed.
6. Primary coverage basis: For payment of any claims, Contractor's insurance coverage shall be on a primary, non-contributory basis with other coverages and/or self-insurance carried by the Owner or other sources.
7. Required language: The Contractor's General Liability and Umbrella Liability policy shall be endorsed to include the following language: "THE NAVAJO NATION, ITS ELECTED OFFICIALS, EMPLOYEES, AGENTS, AND VOLUNTEERS ARE NAMED AS AN ADDITIONAL INSURED WITH RESPECT TO LIABILITY ARISING OUT OF THE ACTIVITIES PERFORMED BY THE INSURED [THE CONTRACTOR] PURSUANT TO A CONTRACT WITH THE NAVAJO NATION." (ISO Forms CG 2010 and CG 20 37 "Additional Insured-Owners, Lessees or Contractors-Completed Operations" 2004 Editions or equivalent).
8. Waiver of subrogation: All Contractor's policies shall contain a waiver of subrogation in favor of the Owner, its divisions, departments, offices, agencies, boards, commissions, committees, enterprises and its employees, officers, officials, and agents for losses arising from work performed or services provided by the Contractor pursuant to a Contract with the Owner.
9. Separation of Insureds: Contractor's policy shall include a "Separation of Insureds" clause (Cross Liability).
10. Insurer rating: The Contractor's insurance policy shall be issued by a licensed or approved insurer with an "A.M. Best" rating of not less than A- VII. The Owner in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.
11. Certificates of insurance: The Contractor shall provide to the Owner certificates of insurance as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. Each insurance policy required by this Contract must be in effect upon, or prior to, commencement of performance under this Contract and shall remain in effect until such time as all of its obligations under this Contract or any subsequent modifications have been fully and satisfactorily completed. Insurance certificates shall be sent to the

Navajo Nation Department of Risk Management, P.O. Box 1690, Window Rock, Arizona, 26515. The Contract Number and a description of the work performed or services provided thereunder shall be indicated on such certificates.

12. Subcontractors: Contractor's subcontractors shall be included as insureds under Contractor's policy, or Contractor shall provide separate certificates and endorsements for each of its subcontractors holding separate policies, which policies shall meet the minimum policy amounts shown herein.
13. Notification of change required: The insurance policy required herein shall provide the required coverage and shall not be suspended, voided, canceled, or reduced in coverage or in limits except after thirty (30) calendar days prior written notice has been given to the Owner. Such notice shall be sent directly to the address shown in 6.02.A.11 and shall be sent by certified mail, return receipt requested.
14. Approval of modifications: Any modifications of the insurance requirements set forth herein shall be approved by the Navajo Nation Risk Management Program, whose decision shall be final. Such modification shall not require a formal Contract modification, but may be approved by administrative action of the Risk Management Program. Contractor may request, for itself or its subcontractors, that the insurance requirements shown herein be modified, provided that such request include a justification for the modification with supporting documentation and be delivered in writing to the Risk Management Program prior to contract execution or modification. Any modifications approved shall be on a case-by-case basis and shall not affect the insurance requirements of other subcontractors for whom modifications have not been approved. ALL MODIFICATIONS SHALL BE APPROVED BY THE NAVAJO NATION RISK MANAGEMENT PROGRAM PRIOR TO COMMENCEMENT OF ANY PERFORMANCE UNDER THIS CONTRACT.
15. Owner's disclaimers: The insurance requirements and coverages set forth herein are minimum requirements only and in no way limit the indemnity covenants contained in this Contract. The Owner in no way warrants that the minimum limits herein are sufficient to protect Contractor or its subcontractors from any liabilities arising from any work performed or services provided under this Contract, and Contractor and its subcontractors are free to purchase additional insurance. By requiring such minimum insurance, the Owner shall not be deemed to have assessed any risks that may be applicable to Contractor under the Contract. Contractor shall assess all risks and may maintain higher limits and/or broader coverages. Contractor is not relieved of any liability or other obligations assumed or pursuant to this Contract due to failure to obtain or maintain insurance in sufficient amounts, duration, or types.
16. No sovereign immunity waiver: The Parties acknowledge and agree that the Owner is relying on, and does not waive or intend to waive by any provision of this Contract, the monetary limitations and other rights, immunities, and protections provided under 1 N.N.C. §§551 et. seq., as from time to time amended, or otherwise available to the Owner or its elected officials, employees, agents, and volunteers.
17. Mutual cooperation: The Owner and Contractor shall cooperate in good faith in the collection of any insurance proceeds which may be payable in the event of any loss, including the execution and delivery of any proof of loss or other actions required to effect recovery.

18. Contractor's Insurance: The Contractor, and each entity of a team, shall maintain insurance as required herein, for the specific type of work to be performed and services to be provided by such entity or individual.
 19. Insurance Documentation Required: The Owner's Representative must receive written documentation of all required insurance prior to issuance of a Notice to Proceed for the Project, and Contractor shall not commence any work or services under this Contract unless and until such documentation has been submitted to the Owner.
- B. If Contractor has failed to obtain and maintain required insurance, Owner may exclude the Contractor from the Site, impose an appropriate set-off against payment, and exercise Owner's termination rights under Article 16.

ARTICLE 7 – CONTRACTOR'S RESPONSIBILITIES

7.01 *Supervision and Superintendence*

- A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

7.02 *Labor*

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.

7.03 *Goods, Supplies, Services, Materials, and Equipment*

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all goods, supplies, services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.
- B. All goods, supplies, materials and equipment incorporated into the Work shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by the Owner, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.
- C. All goods, supplies, materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier or Manufacturer, except as otherwise may be provided in the Contract Documents.

7.04 "Or Equals"

- A. Whenever an item of goods, supplies, material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier or Manufacturer, such specification or description is intended to establish the type, function, appearance, and quality required, however, the Owner may, at its discretion, authorize the use of other items of goods, supplies, material or equipment.
- B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.

7.05 Substitutes

- A. Unless the specification or description of an item of material or equipment required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of material or equipment under the circumstances described below. To the extent possible such requests shall be made before commencement of related construction at the Site.
 - 1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of material or equipment from anyone other than Contractor.
 - 2. The requirements for review by Engineer will be as set forth in Paragraph 7.05.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.
 - 3. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:
 - a. shall certify that the proposed substitute item will:
 - 1) perform adequately the functions and achieve the results called for by the general design,
 - 2) be similar in substance to that specified, and
 - 3) be suited to the same use as that specified.
 - b. will state:
 - 1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times,
 - 2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item, and
 - 3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.
 - c. will identify:
 - 1) all variations of the proposed substitute item from that specified, and

- 2) available engineering, sales, maintenance, repair, and replacement services.
- d. shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.
- B. *Engineer's Evaluation and Determination:* Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.
- C. *Special Guarantee:* Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- D. *Reimbursement of Engineer's Cost:* Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.
- E. *Contractor's Expense:* Contractor shall provide all data in support of any proposed substitute at Contractor's expense.
- F. *Effect of Engineer's Determination:* If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.05.D, by timely submittal of a Change Proposal.

7.06 *Concerning Subcontractors, Suppliers, and Others*

- A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner.
- B. Owner may not require Contractor to retain any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against which Contractor has reasonable objection.
- C. Prior to the Owner's execution of this Contract, at the time of Bid (if applicable), Contractor shall submit to Owner the identity of all proposed Subcontractors or Suppliers.
- D. Owner may require the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors, Suppliers, or other individuals or entities for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make

written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor, Supplier, or other individual or entity so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity.

- E. If Owner requires the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work, then Contractor may submit a Change Proposal for an adjustment of the Contract Price or Contract Times, within 30 days of Owner's requirement of replacement.
- F. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of the Owner's right to the completion of the Work in accordance with the Contract Documents.
- G. On a monthly basis Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.
- H. Contractor shall be fully responsible to Owner for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions.
- I. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors, Suppliers, and all other individuals or entities performing or furnishing any of the Work.
- J. Contractor shall restrict all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed herein.
- K. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade, except that any specialized Work shall be performed by Subcontractors or Suppliers who are specifically licensed and qualified to perform such specialized Work.
- L. All Work performed for Contractor by a Subcontractor or Supplier shall be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer.
- M. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor on account of Work performed for Contractor by the particular Subcontractor or Supplier.
- N. Nothing in the Contract Documents:
 - 1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier, or other individual or entity; nor
 - 2. shall create any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity.

7.07 *Patent Fees and Royalties*

- A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer at the time of execution of this Contract by the Owner, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.
- B. Contractor shall indemnify and hold harmless Owner and those identified in Paragraph 7.18.A against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

7.08 *Permits*

- A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the Contractor's execution of this Contract. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

7.09 *Taxes*

- A. Contractor acknowledges and agrees that all work performed and services provided within the territorial jurisdiction of the Navajo Nation is subject to the five percent (5%) Navajo Sales Tax (24 N.N.C. §601 et seq.).
- B. *Identification of taxable activity:* The Contractor shall separately indicate, on each invoice or payment application submitted to the Owner, any and all of its work performed or services provided within the Navajo Nation pursuant to this Contract, and shall itemize the Navajo Sales Tax.
- C. *Withholding:* The Owner shall withhold from each payment five percent (5%) of each invoice amount for work performed and services provided within the Navajo Nation under this Contract, and shall transfer such five percent (5%) amount to the Office of the Navajo Tax Commission (ONTC) on behalf of the Contractor. The Contractor shall indicate on its quarterly tax return filed with the ONTC that the Navajo Sales Tax has been withheld and paid. It is the Contractor's sole responsibility to make certain that all withholding applies only to that work performed and services provided under this contract, or portion thereof, that is subject to the Navajo Sales Tax.
- D. *Filing and other payments:* The Contractor acknowledges that the Owner's withholding of tax in no way removes Contractor's responsibility for timely filing of tax returns and payment of interest, penalties, or any other amounts relating to Contractor's tax obligations under the Navajo Nation's or any other jurisdiction.

7.10 *Compliance with Navajo Nation Laws and Regulations*

- A. *Financial responsibility:* At all times for the effective duration of this Contract, the Contractor shall be in compliance with all provisions of the Navajo Business and Procurement Act, at 12 N.N.C. §1501 et seq.
- B. *Navajo Preference in hiring:* In the hiring of any employees (under an employer-employee relationship) who will perform primarily at the Project site, the Contractor shall comply with all provisions of the Navajo Preference in Employment Act, at 15 N.N.C. §601 et seq.
- C. *Navajo Preference in subcontracting:* Contractor expressly acknowledges and agrees that it is deemed a "Prime Contractor" under 5 N.N.C. §202 K, and as such must comply with all applicable provisions of the Navajo Business Opportunity Act, at 5 N.N.C. §201 et seq., and with all rules and regulations promulgated thereto. In accordance with 5 N.N.C. §205 F, the NNBRD shall have the authority to require the Contractor to comply with current minimum percentages for procurement and subcontract awards to Navajo-owned and controlled entities, firms and organizations, based upon availability and upon the qualifications of such entities to provide specific products and services necessary or appropriate for the Project.
- D. *Other laws:* The Contractor shall comply with all other Navajo Nation laws and regulations and of the United States, now in force and effect or as hereafter may come into force and effect that pertain to the work to be performed or services to be provided under this Contract.
- E. *Funding grants:* The Contractor shall comply with any and all applicable laws, regulations, policies, or guidance governing the procurement, administration, contract performance, payment procedures, reporting, or other matters relating to the Project or to Contractor's performance under this Contract.
- F. *Non-compliance constitutes breach:* The terms and provisions of said laws and regulations are fully incorporated herein by reference, and any violation thereof shall constitute a breach of this Contract and provide just cause for the Owner's unilateral termination of this Contract.
- G. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and those identified in Paragraph 7.18.A against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action.

7.11 *Record Documents*

- A. Contractor shall maintain in a safe place at the Site one printed record copy of all Contract Documents. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be made readily available to Engineer and Owner for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer or to the Owner if directed by the Owner.

7.12 *Safety and Protection*

- A. Contractor is wholly responsible for safety at the Site. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in

connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

1. all persons on the Site or who may be affected by the Work;
 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site;
 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction; and
 4. any discovered historical, archeological, or cultural remains or property.
- B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owner; the owners of adjacent property, Underground Facilities, and other utilities; and other contractors and utility owners performing work at or adjacent to the Site, when prosecution of the Work may potentially affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- C. Contractor shall comply with the applicable requirements of Owner's safety programs or procedures as contained in the Project Manual.
- D. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.
- E. All damage, injury, or loss to any property referred to in Paragraph 7.12.A.2 through 7.12.A.4 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- F. Contractor's duties and responsibilities for safety and protection shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 15.06.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).
- G. Contractor's duties and responsibilities for safety and protection shall resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

7.13 *Safety Representative*

- A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

7.14 *Hazard Communication Programs*

- A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 *Emergencies*

- A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent imminent or potential damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, the Engineer may submit a Work Change Directive or Change Order.

7.16 *Shop Drawings, Samples, and Other Submittals*

A. *Shop Drawing and Sample Submittal Requirements:*

1. Before submitting a Shop Drawing or Sample, Contractor shall have:
 - a. reviewed and coordinated the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
 - b. determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;
 - c. determined and verified the suitability of all goods, supplies, materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
 - d. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that submittal, and that Contractor approves the submittal.
3. With each submittal, Contractor shall give Engineer specific written notice of any variations that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be set forth in a written communication separate from the Shop Drawings or Sample submittal; and, in addition, in the case of Shop Drawings by a specific notation made on each Shop Drawing submitted to Engineer for review and approval of each such variation.

- B. *Submittal Procedures for Shop Drawings and Samples:* Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals. Each submittal will be identified as Engineer may require:
1. *Shop Drawings:*
 - a. Contractor shall submit the number of copies required in the Specifications.
 - b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, goods, supplies, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.D.
 2. *Samples:*
 - a. Contractor shall submit the number of Samples required in the Specifications.
 - b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 7.16.D.
 3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.
- C. *Other Submittals:* Contractor shall submit other submittals to Engineer in accordance with the accepted Schedule of Submittals, and pursuant to the applicable terms of the Specifications.
- D. *Engineer's Review:*
1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.
 2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs incident thereto.
 3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
 4. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order.

5. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 7.16.A and B.
6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, shall not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.
7. Neither Engineer's receipt, review, acceptance or approval of a Shop Drawing, Sample, or other submittal shall result in such item becoming a Contract Document.
8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.D.4.

E. *Resubmittal Procedures:*

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.
2. Contractor shall furnish required submittals with sufficient information and accuracy to obtain required approval of an item with no more than three submittals. Engineer will record Engineer's time for reviewing a fourth or subsequent submittal of a Shop Drawings, sample, or other item requiring approval, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges.
3. If Contractor requests a change of a previously approved submittal item, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

7.17 *Contractor's General Warranty and Guarantee*

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on Contractor's warranty and guarantee. Contractor warrants to the Owner that all labor, materials, equipment and furnishings used in, or incorporated into, the Project will be of good quality, new, that the Work will be free from defects in design, materials and workmanship, and that all Work will conform with the requirements of the Contract. If required by the Owner's Representative, the Contractor shall furnish satisfactory evidence of compliance with this warranty. The type, quality and quantum of such evidence, and whether such evidence is satisfactory, shall be within the sole discretion of the Owner's Representative. Any portion of the Work not conforming to these requirements, including substitutions not properly approved and authorized by the Owner, and including non-conformance relating to any materials, equipment, furnishings, labor, installation, or workmanship, may be considered defective.

- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
 2. normal wear and tear under normal usage.
- C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:
1. observations by Engineer or Owner;
 2. recommendation by Engineer or payment by Owner of any progress or final payment;
 3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;
 4. use or occupancy of the Work or any part thereof by Owner;
 5. any review and approval of a Shop Drawing or Sample submittal;
 6. the issuance of a notice of acceptability by Engineer;
 7. any inspection, test, or approval by others; or
 8. any correction of defective Work by Owner or others under the control of Owner.
- D. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract shall govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.
- E. *Repair or replacement:* Contractor agrees to repair, replace, or re-perform, or pay the Owner the reasonable cost of such repair, replacement, or re-performance, any portion of the Work that the Owner deems in its sole discretion to be defective, so long as the Owner submits to the Contractor a written notice of any defect within 1 calendar year following the issuance of a Certificate of Substantial Completion for the Project or as otherwise required in the Technical Specifications, whichever is later. The choice among repair, replacement, re-performance, or payment shall be the Contractor's. Any steps taken by the Contractor to correct defects shall not act to extend the term of this warranty. All costs for work or services, including third party fees or costs, for all repairs, replacement, or re-performance by the Contractor shall be at no charge to the Owner and shall be performed within 60 calendar days of the Contractor's receipt of notification of the defect, which period may be extended for delays outside the Contractor's control.
- F. *Maintenance:* Failure of the Owner to perform reasonable regular maintenance and proper care of the finished Project shall NOT void this warranty as it covers defects that are inherent in the goods or services provided as part of the Project.
- G. *Access to the Project:* Owner must provide access to the Contractor during its normal business hours, Monday through Friday, 8 a.m. to 5 p.m., to inspect the defect reported and, if necessary, to take corrective action.
- H. *No liens:* Contractor guarantees that, as of the conclusion of this Contract, all work will be free of liens, claims and security interests of any third parties.

7.18 *Indemnification*

- A. Contractor shall indemnify and hold harmless Owner and its officers, directors, members, partners, agencies, boards, commissions, committees, enterprises, employees, agents, consultants, subcontractors and Engineer from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable.
- B. In any and all claims against Owner or those identified in Paragraph 7.18.A by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 7.18.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- C. The indemnification obligations of Contractor under Paragraph 7.18.A shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:
 - 1. the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
 - 2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

7.19 *Delegation of Professional Design Services*

- A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable Laws and Regulations.
- B. If professional design services or certifications by a design professional related to systems, goods, supplies, materials, or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.
- C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, or approvals performed by such design

professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.

- D. Pursuant to this paragraph, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 7.16.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria specified by Owner or Engineer.

ARTICLE 8 – OTHER WORK AT THE SITE

8.01 *Other Work*

- A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.
- B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any utility work at or adjacent to the Site, Owner shall provide such information to Contractor.
- C. Contractor shall afford each other contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.
- D. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 8, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

8.02 *Coordination*

- A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Project Manual or provided to Contractor prior to the start of any such other work:

1. the identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;
 2. an itemization of the specific matters to be covered by such authority and responsibility; and
 3. the extent of such authority and responsibilities.
- B. Unless otherwise provided in the Project Manual, Owner shall have sole authority and responsibility for such coordination.

8.03 *Legal Relationships*

- A. If, in the course of performing other work at or adjacent to the Site for Owner, the Owner's employees, any other contractor working for Owner, or any utility owner causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment shall take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the Owner's execution of this Contract. When applicable, any such equitable adjustment in Contract Price shall be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment and such adjustment must be necessary for Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due to Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this paragraph.
- C. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due to Contractor.
- D. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or

otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and those identified in Paragraph 7.18.A.

ARTICLE 9 – OWNER’S RIGHTS AND RESPONSIBILITIES

9.01 *Right to Assurance*

- A. If at any time prior to completion of performance under this Contract, the Owner has reason to believe that Contractor does not intend or is unable to fully perform under this Contract, the Owner may demand in writing that Contractor submit written assurance of its intent to complete performance. Failure to provide assurance within fourteen (14) business days of issuance of such demand shall constitute a material breach.

9.02 *Communications to Contractor*

- A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.03 *Replacement of Engineer*

- A. Owner may at its discretion appoint an engineer to replace Engineer. The replacement engineer’s status under the Contract Documents shall be that of the former Engineer.

9.04 *Furnish Data*

- A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

9.05 *Pay When Due*

- A. Owner shall make payments to Contractor when they are due as provided in the Contract.

9.06 *Lands and Easements; Reports, Tests, and Drawings*

- A. Owner’s duties with respect to providing lands and easements are set forth in Paragraph 5.01.
- B. Owner’s duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.02.
- C. Article 5 refers to Owner’s identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.07 *Change Orders*

- A. Owner’s responsibilities with respect to Change Orders are set forth in Article 11.

9.08 *Inspections, Tests, and Approvals*

- A. Owner’s responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.

9.09 *Limitations on Owner’s Responsibilities*

- A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor’s means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor’s failure to perform the Work in accordance with the Contract Documents.

9.10 *Undisclosed Hazardous Environmental Condition*

- A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.

9.11 *Safety Programs*

- A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
- B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

ARTICLE 10 – ENGINEER'S STATUS DURING CONSTRUCTION

10.01 *Owner's Representative*

- A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in this Contract.
- B. No payment shall be authorized or remitted to the Contractor unless and until the Owner's Representative, or his/her successor or designee, approves in writing in advance the work performed or services provided under this Contract, and has given prior written approval of invoice(s), billing(s), or payment application(s) submitted to the Owner. All invoices must be supported by adequate verification, documentation, and itemization of all required Project deliverables received by the Owner.
- C. Any cooperative or joint supervision, or joint approval authority involving person(s) other than the Owner's Representative, whether Owner's staff or other person(s), shall be conducted through a duly approved and executed cooperative agreement that sets forth the extent of decision-making, supervision, and approval authority of the Owner's Representative and such other person(s).

10.02 *Visits to Site*

- A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe, as an experienced and qualified design professional, the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.
- B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 10.08. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

10.03 *Project Representative*

- A. The Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work. The authority and responsibilities of the Resident Project Representative will be as provided in Paragraph 10.08 and further detailed in the Technical Specifications. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent, or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Project Manual.

10.04 *Rejecting Defective Work*

- A. Engineer has the authority to reject Work in accordance with Article 14.

10.05 *Shop Drawings, Change Orders and Payments*

- A. Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, are set forth in Paragraph 7.16.
- B. Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, are set forth in Paragraph 7.19.
- C. Engineer's authority as to Change Orders is set forth in Article 11.
- D. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.06 *Determinations for Unit Price Work*

- A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.02.

10.07 *Decisions on Requirements of Contract Documents and Acceptability of Work*

- A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.08 *Limitations on Engineer's Authority and Responsibilities*

- A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.
- B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

- C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.
- D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 15.06.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, and other documentation required to be delivered by Paragraph 15.06.A shall be to determine compliance with the Contract Documents.
- E. The limitations upon authority and responsibility set forth in this Paragraph 10.08 shall also apply to the Resident Project Representative, if any.

10.09 *Compliance with Safety Program*

- A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs and procedures (if any) of which Engineer has been informed.

ARTICLE 11 – AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK

11.01 *Amending and Supplementing Contract Documents*

- A. The Contract Documents may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.
 - 1. *Change Order*
 - a. If an amendment or supplement to the Contract Documents includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order. A Change Order also may be used to establish amendments and supplements of the Contract Documents that do not affect the Contract Price or Contract Times.
 - b. Owner and Contractor may amend those terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, without the recommendation of the Engineer. Such an amendment shall be set forth in a Change Order.
 - 2. *Work Change Directives:* A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.04 regarding change of Contract Price. Contractor must submit any Change Proposal seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 30 days after the completion of the Work set out in the Work Change Directive. Owner must submit an Owner's Claim seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 60 days after issuance of the Work Change Directive.

3. *Field Orders*: Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.
- B. *Approval required for any modification, Change Order, or Contract Price over 10%*: Every modification, Change Order, or Contract Price that exceeds ten percent (10%) of the Original Contract Amount shall be approved in advance by the Owner's Representative, in accordance with 12 N.N.C. § 345.

11.02 *Unilateral Changes in the Work by Owner*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. The Owner shall give timely written notice as defined in the Contract, or if not therein defined, upon thirty (30) calendar days' prior written notice for such unilateral changes. Such changes shall be supported by Engineer's recommendation, to the extent the change involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters. Such changes may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work shall be performed under the applicable conditions of the Contract Documents. Nothing in this paragraph shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.
- B. The Contractor agrees that payment for additional work/goods/services provided in accordance with such changes described in this paragraph shall be determined in the same manner as all costs for such work/goods/services included in the Contract Amount, unless the Contractor provides written justification for any cost increase and the Owner's Representative, in his/her sole discretion, approves such increase. Such additional payments must be approved via a Change Order.

11.03 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, if such work is not approved prior to commencement in a Change Order in accordance with Article 11, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.

11.04 *Change of Contract Price*

- A. The Contract Price may only be changed by a duly approved Change Order in accordance with this Article 11.

- B. An adjustment in the Contract Price will be determined as follows:
 - 1. where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.02); or
 - 2. where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum; or
 - 3. where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01).
- C. Contractor's Fee under a change in Contract Price shall be determined as follows:
 - 1. a mutually acceptable fixed fee or if a fixed fee is not agreed upon, then a fee based on the Unit Price Work.
 - 2. no fee shall be payable on the basis of costs itemized under Paragraph 13.01.B.4, 13.01.B.5, and 13.01.C.

11.05 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order.
- B. An adjustment of the Contract Times shall be subject to the limitations set forth in Paragraph 4.04, concerning delays in Contractor's progress.

11.06 *Change Proposals*

- A. Contractor shall submit a Change Proposal to Engineer to (1) request an adjustment in the Contract Times or Contract Price; (2) appeal an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; (3) contest a set-off against payment due; or (4) seek other relief under the Contract. The Change Proposal shall specify any proposed change in Contract Times or Contract Price, or both, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents.
 - 1. *Procedures:* Contractor shall submit each Change Proposal to Engineer promptly (but in no event later than 30 days) after the start of the event giving rise thereto, or after such initial decision. The Contractor shall submit supporting data, information, and materials regarding the proposed change, to the Engineer and Owner within 15 days after the submittal of the Change Proposal. Engineer shall advise Owner regarding the Change Proposal.
 - 2. *Engineer's Action:* Engineer will review each Change Proposal and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.
 - 3. *Binding Decision:* Engineer's decision will be final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing an Owner's Claim or Contractor's Claim under Article 12.

4. *Owner's Approval:* For a Change Proposal to take effect, the Owner must give written approval of any Change Proposal in accordance with Article 11.
- B. *Resolution of Certain Change Proposals:* If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice shall be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

11.07 *Execution of Change Orders*

- A. The Engineer may issue appropriate Change Orders covering:
 1. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;
 2. changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
 3. changes in the Scope of Work for the Project which are: (a) ordered by Owner pursuant to Paragraph 11.02, (b) required because of Owner's acceptance of defective Work under Paragraph 14.03 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
 4. changes in the Contract Price or Contract Times, or other changes, which embody the substance of any final and binding results under Paragraph 11.06, or Article 12.

11.08 *Notification to Surety*

- A. If the provisions of any bond require notice to be given to a surety of any change affecting the Scope of the Work for the Project or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

ARTICLE 12 – JURISDICTION, SOVEREIGN IMMUNITY, CLAIMS; DISPUTE RESOLUTION

12.01 *Navajo Nation Jurisdiction*

- A. By voluntarily entering into and executing this Contract, the Contractor expressly consents to the full territorial, administrative, legislative, executive and judicial jurisdiction of the Navajo Nation, including but not limited to, the jurisdiction to regulate, adjudicate disputes, and to levy fines or enter judgments for injunctive relief and/or compensatory and punitive damages, in connection with all activities conducted by the Contractor within the Navajo Nation or which have a proximate (legal) effect on persons or property within the Navajo Nation. The Contractor hereby acknowledges and agrees that this Contract constitutes a voluntary consensual relationship between the Contractor and the government of the Navajo Nation.

12.02 *Sovereign Immunity*

- A. Nothing in this Contract shall be considered a waiver, express or implied, of the sovereign immunity of the Navajo Nation, except to the limited extent provided for in the Navajo Sovereign Immunity Act, as amended, at 1 N.N.C. §§551 et seq.

12.03 *Claims; Dispute Resolution*

- A. Any claim (including an Owner's Claim and Contractor's Claim), dispute, or other matter in question arising out of or relating to this Contract shall be resolved by the negotiation and arbitration proceedings set forth in this Article.
- B. *Negotiation:* The parties shall endeavor to resolve claims, disputes or other matters between them by informal good faith negotiation, which negotiation period shall not exceed thirty (30) calendar days, commencing as of the receipt by either party of the other party's written "Notice to Invoke Dispute Resolution Procedures."
- C. *Arbitration:* If the negotiation provided for in Paragraph 12.03.B herein does not result in resolution of the parties' dispute within thirty (30) calendar days of commencement of negotiation, then, unless the parties agree in writing to extend the time for negotiation, either party may invoke arbitration according to the procedures referenced in the Navajo Sovereign Immunity Act, as amended, at 1 N.N.C. §§554(J) and §554(K), and in the Navajo Nation Arbitration Act, as amended, at 7 N.N.C. §§1101 et seq. Arbitration shall be conducted under the Commercial Arbitration Rules of the American Arbitration Association, except as such rules are modified by the following:
 - 1. unless otherwise agreed to in writing by the parties, all arbitration proceedings shall be held in Window Rock, Arizona; and
 - 2. the arbitration shall be conducted by a single arbitrator selected by the Owner, unless one of the parties' claims exceeds \$1,000,000.00, exclusive of interest, costs, and fees; in such case the arbitration shall be conducted by a panel consisting of three (3) arbitrators, one of which shall be chosen by each party, with the two arbitrators choosing the third; at least one arbitrator shall possess at least ten (10) years of experience in Indian Law; and
 - 3. a Notice of Intent to Invoke Arbitration shall be filed in strict compliance with the notice requirements of the Navajo Sovereign Immunity Act, at 1 N.N.C. §555; and
 - 4. whether as a result of an arbitration provided for herein or of any judicial action to enforce an arbitration award resulting from such arbitration, any award against the Owner shall be in strict conformance with the provisions of 1 N.N.C. §554(K) 1-6; and
 - 5. whether in the context of an arbitration provided for herein or any judicial action to enforce an arbitration award resulting from arbitration, Navajo Nation laws and regulations shall exclusively govern the interpretation of this Contract, the arbitration provisions herein, the arbitration procedures conducted pursuant thereto, and the application of all provisions of the Contract to the Contractor, except if no Navajo Nation law or regulation governs a particular issue in dispute the applicable laws of the state of primary performance under the Contract shall govern that particular issue only; and
 - 6. pursuant to 1 N.N.C. § 554(J)-(K) and 7 N.N.C. §1102, the appropriate Navajo Nation district court shall have exclusive jurisdiction to compel the Owner's participation in an arbitration, and shall have exclusive jurisdiction to enforce, modify, or vacate an

arbitration award resulting from such arbitration; neither party may recover from the other any attorney fees or costs.

- D. *Waiver of Suit:* The negotiation and arbitration provisions herein shall constitute the sole and exclusive procedural remedy to any dispute or controversy arising from this Contract. Commencement of negotiation or arbitration shall be a complete defense to any suit, claim, action or proceeding in any federal, state, or tribal judicial or administrative tribunal, with respect to any dispute or controversy arising out of this Contract.
- E. *Post-termination; Post-expiration:* Regarding any dispute arising from this Contract, the dispute resolution procedures set forth herein shall survive the termination or expiration of this Contract.
- F. *Challenges limited:* By entering into this Contract, the Contractor expressly covenants and agrees that it shall not contest or challenge the territorial, administrative, legislative, executive or judicial jurisdiction of the Navajo Nation on the basis that such jurisdiction is inconsistent with the status of the Navajo Nation as an Indian tribal Nation, or that the Navajo Nation government is not a government of general jurisdiction, or that the Navajo Nation government does not possess full police power (i.e., the power to legislate and regulate for the public's general health and welfare) over all lands, persons, activities, transactions, or occurrences within its territorial boundaries, or on any other basis not generally applicable in a similar challenge to the jurisdiction of a state government.
- G. *Partial Approval:* If the party receiving a claim approves the claim in part and denies it in part, such action shall be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 12.

12.04 *Navajo Nation Department of Justice Approval*

- A. Pursuant to 1 N.N.C. §554(J)(2) and (K)(2), Navajo Nation Department of Justice approval is required for all agreements that include a limited waiver of sovereign immunity to compel or enforce arbitration under the Navajo Nation Arbitration Act, as amended, 7 N.N.C. §1101 *et seq.* The previous sentence and the Navajo Nation Department of Justice's signature are required on the signature page of C-520.

ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 *Cost of the Work*

- A. The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue.
- B. *Costs Excluded:* The term Cost of the Work shall not include any of the following items:
 - 1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
 - 2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.

3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.
- C. *Contractor's Fee*: When the Work as a whole is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Contract. When the value of any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 11.04.C.
 - D. *Contingency Allowance*: Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
 - E. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

13.02 *Unit Price Work*

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Contract.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of the following subsection.
- E. Within 30 days of Engineer's written decision under the preceding paragraph, Contractor may submit a Change Proposal, or Owner may file a Claim, seeking an adjustment in the Contract Price if:
 1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Contract;
 2. there is no corresponding adjustment with respect to any other item of Work; and
 3. Contractor believes that it is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a

decrease in Contract Price, and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 14 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

14.01 *Access to Work*

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

14.02 *Tests, Inspections, and Approvals*

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work shall be governed by the provisions of Paragraph 14.05.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.
- D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:
 - 1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
 - 2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
 - 3. by manufacturers of equipment furnished under the Contract Documents;
 - 4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
 - 5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests shall be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.

- F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

14.03 *Defective Work*

- A. *Contractor's Obligation:* It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority:* Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects:* Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement:* Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties:* When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. *Costs and Damages:* In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 *Uncovering Work*

- A. Engineer has the authority to require special inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.
- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.
 - 1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.
 - 2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

14.07 *Owner May Correct Defective Work*

- A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace rejected Work as required by Engineer, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.
- B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.

- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.
- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 Progress Payments

- A. *Basis for Progress Payments:* The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.02. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.
- B. *Applications for Payments:*
 - 1. At least 20 days before the date established in the Contract for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens, and evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.
 - 2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.
 - 3. The amount of retainage with respect to progress payments will be as stipulated in the Contract.
- C. *Review of Applications:*
 - 1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
 - 2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design

professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

- a. the Work has progressed to the point indicated;
 - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.02, and any other qualifications stated in the recommendation); and
 - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.
3. By recommending any such payment Engineer will not thereby be deemed to have represented that:
- a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or
 - b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.
4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
- a. to supervise, direct, or control the Work, or
 - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
 - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
 - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid on account of the Contract Price, or
 - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.
6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
- a. the Work is defective, requiring correction or replacement;
 - b. the Contract Price has been reduced by Change Orders;

- c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
- d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or
- e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

D. *Payment Becomes Due:*

- 1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

E. *Reductions in Payment by Owner:*

- 1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
 - a. claims have been made against Owner on account of Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages on account of Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;
 - b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
 - c. Contractor has failed to provide and maintain required bonds or insurance;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;
 - e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
 - f. the Work is defective, requiring correction or replacement;
 - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - h. the Contract Price has been reduced by Change Orders;
 - i. an event that would constitute a default by Contractor and therefore justify a termination for cause has occurred;
 - j. liquidated damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
 - k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
 - l. there are other items entitling Owner to a set off against the amount recommended.

2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed shall be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.
3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 15.01.C.1 and subject to interest as provided in the Contract.

15.02 *Contractor's Warranty of Title*

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

15.03 *Substantial Completion*

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which shall fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a

permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.

- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases, Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

15.04 *Partial Use or Occupancy*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:
 - 1. At any time Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through E for that part of the Work.
 - 2. At any time Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
 - 3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
 - 4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.02 regarding builder's risk or other property insurance.

15.05 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

15.06 *Final Payment*

A. *Application for Payment:*

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.11), and other documents, Contractor may make application for final payment.
2. The final Application for Payment shall be accompanied (except as previously delivered) by:
 - a. all documentation called for in the Contract Documents;
 - b. consent of the surety, if any, to final payment;
 - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.
 - d. a list of all disputes that Contractor believes are unsettled; and
 - e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.
3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

B. *Engineer's Review of Application and Acceptance:*

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the Application for Payment to Owner for payment. Such recommendation shall account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to the provisions of Paragraph 15.06.F. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

- C. *Completion of Work*: The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.
- D. *Payment Becomes Due*: Thirty days after the presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer (less any further sum Owner is entitled to set off against Engineer's recommendation, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions above with respect to progress payments) will become due and shall be paid by Owner to Contractor.
- E. *Submittal of Invoices & Work Product*: Copies of all work product documents, reports, photographs, drawings, schematics, related correspondence, invoices, and other information or documents regarding the Project shall be provided to the Owner's Representative no later than thirty (30) calendar days following the expiration or termination of this Contract. Final invoice(s) shall be due no later than thirty (30) calendar days following the expiration or termination of this Contract.
- F. *Waiver of Claims*
 - 1. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. Owner expressly reserves claims and rights arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 15.05, from Contractor's failure to comply with the Contract Documents or the terms of any special guarantees specified therein, from outstanding Claims by Owner, or from Contractor's continuing obligations under the Contract Documents.
 - 2. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted or appealed under the provisions of Article 12.03.

15.07 *Correction Period*

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents, or by any specific provision of the Contract Documents), any Work is found to be defective, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
 - 1. correct the defective repairs to the Site or such other adjacent areas;
 - 2. correct such defective Work;
 - 3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
 - 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals

and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others).

- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- E. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

ARTICLE 16 – SUSPENSION OF WORK AND TERMINATION

16.01 *Owner May Suspend Work*

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension. Any Change Proposal seeking such adjustments shall be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 *Owner May Terminate for Cause*

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
 - 1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule);
 - 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;
 - 3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
 - 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) ten days written notice that Owner is considering a declaration that Contractor is in default and termination of the contract, Owner may proceed to:
 - 1. declare Contractor to be in default, and give Contractor (and any surety) notice that the Contract is terminated; and
 - 2. enforce the rights available to Owner under any applicable performance bond.
- C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the

Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.

- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.
- F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond shall govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 *Owner May Terminate For Convenience*

- A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
 - 1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 - 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
 - 3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

16.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided

Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.

- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

16.05 *Additional Rights of Navajo Nation to Suspend or Terminate*

- A. Generally: The rights of the Parties to suspend or terminate this Contract shall be as provided for in this Section. In addition, upon prior written notice to the Contractor of not less than thirty (30) calendar days, the Navajo Nation may unilaterally order a temporary stoppage of work on the Contract. Additional payment to the Contractor for such change, if any, shall be in accordance with Article 11 herein.
- B. Non-compliance or violation of laws: In addition to the Navajo Nation's right of suspension and termination provided for in this Section, the Navajo Nation may terminate this Contract for breach if the Nation's Representative determines in writing that the Contractor or any of its subcontractors has violated any applicable law or regulation. For purposes of this Article, "violated" means an intentional or negligent failure to comply with any said law or regulation, or an intentional or negligent act that is inconsistent with any said law or regulation; "applicable law or regulation" means any Navajo Nation law or regulation, any federal law or regulation, or any state law or regulation that is applicable to this Contract, to its award or procurement, or to Contractor's performance under this Contract.
- C. Falsification, Lack of Documentation: The Navajo Nation may terminate this Contract for breach if:
 - 1. any statement or documentation regarding any licensing, business registration, insurance coverage, or debts owed, as described in Paragraphs 2.01, 2.02 and 6.0, herein is determined to be false; or
 - 2. Contractor has failed to submit in a timely manner any requested documentation pertaining to any licensing, business registration, insurance coverage, or debts owed, as described in Paragraphs 2.01, 2.02 and 6.0 herein, and the Nation's Representative determines that the Navajo Nation is unable to issue a Notice to Proceed, or to otherwise proceed with the Project, in a timely manner.
 - 3. Financial Responsibility, Solvency: The Navajo Nation may terminate this Contract for breach if:
 - a. any debt as described in Paragraph 2.02 is discovered or arises subsequent to the execution of this Contract; or the required licensing, business registration, or insurance coverage has expired or has been suspended or revoked at any time during the performance of this Contract; or
 - b. the Contractor becomes insolvent or its insolvency is imminent, or the Contractor files for bankruptcy under any chapter of federal law; or

- c. the provider of the Contractor's insurance is not solvent or its insolvency is imminent; or
 - d. the Nation receives notice that the Contractor has failed to pay its subcontractors, employees, suppliers or other ancillary firm(s) for any work on this Project.
- D. Debarment; Suspension: The Navajo Nation may terminate this Contract if the Nation or any of its political subdivisions, enterprises, or other related entities, or if any federal or state governmental entity, has for any reason debarred or suspended the Contractor or any of its subcontractors, or other entity owned or co-owned by any related individual. Such debarment or suspension shall be considered effective notwithstanding any appeal, and shall be effective unless and until conclusively resolved in favor of the Contractor or subcontractor.
- E. Payment upon termination: In the event of termination under this Paragraph 16.05, the Contractor shall be reimbursed only for the reasonable value of any non-recurring costs incurred on account of work performed or services provided under this Contract up to the date of notification of termination, whether or not invoice(s), billing(s), or payment application(s) have been received by the Navajo Nation for such work or services prior to the date of cancellation, except for costs amortized in the price of such work or services.

ARTICLE 17 – MISCELLANEOUS

17.01 *Miscellaneous Provisions*

- A. Requests for Information: When requested by the Owner, Contractor shall submit, within fourteen (14) calendar days of the Owner's notice to Contractor of such request, proper verification of invoices, pay applications, reports, documents or any other information related to the Project or any provision of this Contract, or related to the Contractor's duties under this Contract, including requested information related to any entity which may owe the Nation money as provided in 12 N.N.C. § 1503 A.
- B. Owner's Ownership of Work Product: All raw or manufactured materials, supplies, or equipment purchased specifically for the purpose of incorporation into or use with the Project or any portion thereof, shall be considered the property of the Owner as of the date of purchase. Notwithstanding, the Contractor assumes all risks and liabilities associated with the acquisition, transportation, delivery, storage, use, disposal, or destruction of such materials, supplies, or equipment, whether occurring at the Project site or at any other location; and such risks and liabilities are assumed by the Contractor up to the effective date and time of the Owner's property insurance coverage for the Project.
- C. Records; Audits
 - 1. Retention and audit period: Pursuant to 12 N.N.C. §352, Contractor shall maintain books, records, documents or other materials related to performance under this Contract for a period of six (6) calendar years from the date of issuance of final payment under this Contract. Upon issuance of a Notice of Audit to Contractor, the Owner may audit such documents and records any time during the effective period of this Contract, up to the five (5) calendar year period following final payment.
 - 2. Permission for release: Contractor agrees to have an authorized individual execute and have notarized a release authorizing the Owner to release the Contractor's ledgers, books, records, documents or other materials related to performance under this Contract, as such information may be required by a governmental agency under

an agreement with the Owner for purposes of an audit by such agency of such documents and records. Contractor agrees that said executed release shall constitute permission for disclosure of information pursuant to 2 N.N.C. §85 A.5.d. and 2 N.N.C. §86 C.

- D. Issuance of Notices; Mailings: Any notices or correspondence relating to this Contract sent by either party to the other shall be deemed to have been validly given if:
 - 1. Mailed to the appropriate address as shown on the signature page of EJCDC C-520, via certified U.S.P.O. mailing with return receipt requested, and shall be deemed issued or submitted to the receiving party as of the date of such certified mailing; or
 - 2. Delivered in person, by a commercial courier service or otherwise, to the appropriate individual as listed in the Contract Documents or their authorized representative.
- E. Private Contractor: The Contractor shall perform and conduct all activities under this Contract as a private independent contractor and shall not be considered an employee of the Owner or receive any benefits to which the Owner's employees are entitled.
- F. No Third Party Beneficiaries: Notwithstanding any provision of Navajo Nation law, codified or uncoded, or any Navajo Nation common or fundamental law, no provision of this Contract shall be construed as conferring any rights to, and may not be invoked by or for the benefit of, any other person or entity that is not one of the signatory Parties hereto.
- G. Assignment Restricted: The Contractor shall not in any manner whatsoever assign, convey, transfer, or sublet any rights to this Contract or any interest therein including any amendments or modifications thereto, any work product resulting from the work performed or services provided under this Contract including any amendments or modifications thereto, or any monetary claims against the Owner relating to this Contract or any amendments or modifications thereto, without the prior written consent of the Owner. Any attempted assignment without such prior consent shall be void; said consent may be granted, granted upon conditions, or withheld, at the Owner's sole discretion.
- H. Severability: If any provision of this Contract is determined by a court of competent jurisdiction, or by a ruling resulting from arbitration procedures provided for in Article 12, to be invalid, illegal or incapable of being enforced under any rule of law, all other conditions and provisions of this Contract shall nevertheless remain in full force and effect. If any such a ruling affects the rights of either party under this Contract in a materially adverse manner, the Parties may agree in writing to execute a Change Order in accordance with Article 11 herein.
- I. Partners, Successors, Subcontractors: All provisions, conditions and covenants contained herein shall extend to and be binding upon each of the Contractor's owners, partners, team members, successors, heirs, assigns, executors, administrators, employees, officials and agents, including all of the Contractor's subcontractors, and the Contractor expressly agrees that the term "Contractor" whenever used herein, or in any other Contract document, shall be deemed to include all such owners, partners, team members, successors, heirs, assigns, executors, administrators, employees, designees, consultants, officials, agents, and subcontractors. All provisions, conditions and covenants contained herein shall extend to and be binding upon each of the Contractor's owners, partners, team members, successors, heirs, assigns, executors, administrators, employees, officials and agents, including all of the Contractor's subcontractors, and the Contractor expressly agrees that the term "Contractor" whenever used herein, or in any other Contract document, shall be deemed to include all such owners, partners, team members,

successors, heirs, assigns, executors, administrators, employees, designees, consultants, officials, agents, and subcontractors.

- J. Right to Refuse Contract: The Owner reserves its right to refuse to execute this Contract if the Navajo Nation issues a written determination that any of the following has occurred prior to the Owner's execution of this Contract:
1. faulty procurement; a document, procedure, decision, action, or other event pertaining to the procurement of this Contract, or to any related pre-procurement activities, is in violation of any applicable Navajo Nation, federal, or state laws or regulations governing said procurement; or
 2. ancillary firm(s); an ancillary firm is ineligible for the award of this Contract or is unavailable to perform on the Project, for any reason; in such case, the Navajo Nation may, in its discretion, either (1) reject the selected Proposal containing the ancillary firm's qualifications and refuse to execute this Contract; or (2) decide not to reject the Proposal and consider only the license and relevant qualifications of the Contractor standing alone; or (3) decide not to reject the Proposal and permit another equally/more qualified firm to perform those Contract services that would have been performed by the ineligible or unavailable firm; or
 3. lack of funding availability; funding for the Scope of Work, as specifically described in the Project Manual or any addenda, has become wholly or partially unavailable; in which case the Project Manual for this Project shall be cancelled in accordance with Section XIII(B) of the Navajo Nation Procurement Rules and Regulations, and this Contract shall not be executed until completion of a new procurement process for this Project; or
 4. change to Scope of Work or other requirements; there has been a change to the Scope of Work or any other mandatory requirement, as specifically described in the Project Manual or any addenda; in which case additional procedures under Section XIII(A) of the Navajo Nation Procurement Rules and Regulations shall be required and this Contract shall not be executed until the completion of such procedures; or
 5. change to Budget/Maximum Feasible Price; there has been a revision (whether increase or decrease) of the Maximum Feasible Price that was originally established by the Navajo Nation prior to the initiation of the procurement process for this Contract; in which case additional procedures under Section XIII(A) of the Navajo Nation Procurement Rules and Regulations shall be required and this Contract shall not be executed until the completion of such procedures; or
 6. protest filed; a protest has been timely filed in accordance with 12 N.N.C. §360(A), unless a determination has been made to proceed with a Contract award pursuant to 12 N.N.C. §360(F); or
 7. other reasons cited in Regulations; any of the following pertains to this procurement:
 - a. inadequate or ambiguous specifications were cited in the Project Manual;
 - b. the services contemplated under this Contract are no longer required;
 - c. the Project Manual did not provide for consideration of all factors of cost to the Navajo Nation
 - d. all Bids received indicate that the needs of the Navajo Nation can be satisfied by a less expensive service differing from that described in the Project Manual;

- e. all Bids received exceed the Maximum Feasible Price after opportunity for negotiation pursuant to 12 N.N.C. §346(D);
- f. the selected Bidder was collusive, contained fraudulent statements or information, contained any material misrepresentation, or was submitted in bad faith;
- g. cancellation of the Bid process and refusal to enter into this Contract is in the best interest of the Navajo Nation.

17.02 *No Waiver*

- A. A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.

17.03 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions and Navajo Nation Supplemental Conditions.

WORK CHANGE DIRECTIVE NO. _____

Date of Issuance:	Effective Date:
Owner:	Owner's Contract No.:
Contractor:	Contractor's Project No.:
Engineer:	Engineer's Project No.:
Project:	Contract Name:

Contractor is directed to proceed promptly with the following change(s):
Description:

Attachments: *[List documents supporting change]*

Purpose for Work Change Directive:

Directive to proceed promptly with the Work described herein, prior to agreeing to changes on Contract Price and Contract Time, is issued due to: *[check one or both of the following]*

- ☐ Non-agreement on pricing of proposed change.
☐ Necessity to proceed for schedule or other Project reasons.

Estimated Change in Contract Price and Contract Times (non-binding, preliminary):

Contract Price \$ _____ [increase] [decrease].
Contract Time _____ days [increase] [decrease].

Basis of estimated change in Contract Price:

☐ Lump Sum	☐ Unit Price
☐ Cost of the Work	☐ Other

RECOMMENDED:	AUTHORIZED BY:	RECEIVED:
By: _____ Engineer (Authorized Signature)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)
Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

CHANGE ORDER NO. _____

Date of Issuance:

Effective Date:

Owner:

Owner's Contract No.:

Contractor:

Contractor's Project No.:

Engineer:

Engineer's Project No.:

Project:

Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description:

Attachments: *[List documents supporting change]*

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price: \$ _____	Original Contract Times: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
[Increase] [Decrease] from previously approved Change Orders No. ____ to No. ____: \$ _____	[Increase] [Decrease] from previously approved Change Orders No. ____ to No. ____: Substantial Completion: _____ Ready for Final Payment: _____ days
Contract Price prior to this Change Order: \$ _____	Contract Times prior to this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
[Increase] [Decrease] of this Change Order: \$ _____	[Increase] [Decrease] of this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
Contract Price incorporating this Change Order: \$ _____	Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for Final Payment: _____ days or dates

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By: _____	By: _____	By: _____	By: _____	By: _____	By: _____
Engineer (if required)	Owner (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)	Contractor (Authorized Signature)	Contractor (Authorized Signature)
Title: _____	Title: _____	Title: _____	Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____	Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

FIELD ORDER NO. _____

Date of Issuance:	Effective Date:
Owner:	Owner's Contract No.:
Contractor:	Contractor's Project No.:
Engineer:	Engineer's Project No.:
Project:	Contract Name:

Contractor is hereby directed to promptly execute this Field Order, issued in accordance with General Conditions Paragraph 11.01, without changes in Contract Price or Contract Times. If Contractor considers that a change in Contract Price or Contract Times is required, submit a Change Proposal before proceeding with this Work.

Reference: _____
Specification(s) Drawing(s) / Detail(s)

Description:

Attachments:

ISSUED:		RECEIVED:	
By: _____	By: _____	By: _____	By: _____
Engineer (Authorized Signature)		Contractor (Authorized Signature)	
Title: _____	Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____	Date: _____

Copy to: Owner

APPENDIX A

Navajo Nation Forms

- **Navajo Nation Certification Regarding Debarment and Suspension**
- **Affidavit of Responsibility for Subcontractors**
- **Affidavit of Non-Collusion**

NAVAJO NATION CERTIFICATION

Regarding Debarment and Suspension

Consultant acknowledges that to the best of his knowledge that his company and principal participants on this contract:

- 1. Are not debarred, suspended, or otherwise slated for debarment, ineligible and/or excluded from participation on Federal, State and Tribal Government contracts etc.**
- 2. Are not presently nor have been under criminal indictment or civilly charged by a governmental entity (Federal, State, and Tribal Government) for fraud, forgery, falsification, theft, bribery, destruction of records, receiving stolen property and other criminal offenses in the administration of a government contract.**
- 3. Have not been terminated for cause or convenience by a governmental entity in the administration of a government contract (Federal, State, and Tribal Government).**
- 4. If the Navajo Nation determines that the Certificate provided herein is not true, it will be grounds to terminate the contract and pursue other legal remedies.**

Applicant's Company and Address:

Name & Signature of Signatory

Name: _____

Signature

Date

AFFIDAVIT OF RESPONSIBILITY FOR SUBCONTRACTORS

for _____ services for the _____ Project
architectural, engineering, design-build, construction, etc. description of project

located in the _____ Chapter of the Navajo Nation

State of _____) ss.

County of _____)

Affiant: _____, being first duly sworn, hereby deposes and says:

1. that he/she is the _____ of _____, the Business Entity
owner, partner, officer, representative, agent company, firm, partnership, etc.
that has submitted/is submitting to the Navajo Nation a Proposal or Statement of Qualifications (SOQ) or Bid for the above-named Project;
2. that he/she is authorized to represent said Business Entity for purposes of the declarations set forth herein, and that all such declarations are made on behalf of said Entity and all of its owners, partners, officers, members, employees, officials, agents, or parties-in-interest;
3. that, as of the date of signature below, said Entity intends to use the subcontractors listed on "Exhibit A" attached hereto, for the above-named Project;
4. that none of the subcontractors so listed are debarred, suspended, or otherwise ineligible to receive a contract from the Federal Government, any State Government, the Navajo Nation, or from any other Tribal Government in the United States;
5. that none of the subcontractors listed are the subject of any imminent debarment, suspension, or other determination of ineligibility from the Federal, any State, Navajo Nation, or other Tribal Government;
6. no subcontractors are currently, or have been within the past ten (10) years, under any criminal indictment or under any civil complaint or charge by the Federal, any State, Navajo Nation, or other Tribal Government, for fraudulent activities, forgery, falsification, theft, bribery, destruction of records, obstruction of justice, receiving stolen property, or other offense related to the receipt or administration of a government contract;
7. no subcontractors have had a contract with such Government terminated, either for cause or convenience;
8. that the Entity named in Line 1 herein shall assume all legal responsibility for the work of all such subcontractors on the Project, and shall perform all subcontractors' duties as necessary, or shall replace any subcontractor as necessary, in order to guarantee successful completion of all Contract duties for the Project;
9. that all statements set forth herein, and in said Proposal/SOQ/Bid submitted to the Navajo Nation, are true.

Affiant acknowledges and agrees that, if any statement herein is determined to be false or misleading, such will be grounds for immediate termination of the subject Contract or Agreement with the Navajo Nation, and that the Navajo Nation may pursue appropriate legal remedies related to such termination and any false or misleading statements.

Signature of Affiant: _____

printed Name of Affiant: _____

Title of Affiant: _____

Name of Business Entity: _____

Type of Entity (LLC, Partnership, etc.): _____

Address of Business Entity: _____

Business Entity's EIN: _____

NOTARY:

Subscribed and sworn to before me this _____ day
of _____, 20____.

Notary Signature _____

My commission expires _____, 20____.

AFFIDAVIT OF NON-COLLUSION

for _____ services for the _____ Project
architectural, engineering, design-build, construction, etc. description of project
located in the _____ Chapter of the Navajo Nation

State of _____) ss.

County of _____)

Affiant: _____, being first duly sworn, hereby deposes and says:

1. that he/she is the _____ of _____, the Business Entity
owner, partner, officer, representative, agent company, firm, partnership, etc.
that has submitted/is submitting to the Navajo Nation a Proposal or Statement of Qualifications (SOQ) or Bid for the above-named Project;
2. that Affiant is fully informed with respect to the preparation and contents of the Proposal/SOQ/Bid submitted by said Business Entity for the above-named Project, and with respect to all pertinent circumstances regarding the submission of said Proposal/SOQ/Bid to the Navajo Nation;
3. that he/she is authorized to represent said Business Entity for purposes of the declarations set forth herein, and that all such declarations are made on behalf of said Entity and all of its owners, partners, officers, members, employees, officials, agents, or parties-in-interest;
4. that said proposal/SOQ/bid is genuine and not collusive or sham;
5. that said Entity has not in any manner colluded, conspired, connived, or agreed, directly or indirectly, with any other entity, bidder, or person, to submit a sham Proposal/SOQ/Bid to the Navajo Nation in connection with the proposed Contract for which said Proposal/SOQ/Bid was submitted, or to refrain from submitting a Proposal/SOQ/Bid to the Navajo Nation in connection with the proposed Contract;
6. that said Entity has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any other entity, bidder, or person, to fix any price or fee relating to any Proposal/SOQ/Bid of Entity or of any other entity, bidder, or person, or to fix any price, overhead, profit, reimbursement, or cost element of said Proposal/SOQ/Bid, or of that of any other entity, bidder, or person;
7. that said Entity has not -through any collusion, conspiracy, connivance, or unlawful written or oral agreement- secured any advantage against the Navajo Nation or against any other entity, bidder or person interested in the proposed Contract for the above-named Project;
8. that all statements set forth herein, and in said Proposal/SOQ/Bid submitted to the Navajo Nation, are true.

signature of Affiant: _____

printed name of Affiant: _____

title of Affiant: _____

name of Business Entity: _____

type of Entity (LLC, Partnership, etc.): _____

address of Business Entity: _____

Business Entity's EIN: _____

NOTARY:

Subscribed and sworn to before me this _____
day of _____, 20____.

Notary Signature _____

My commission expires _____, 20____.

APPENDIX B

Office of Navajo Labor Relations Minimum Wage Rate Determinations and Requirements

THE NAVAJO NATION



BEN SHELLY PRESIDENT
REX LEE JIM VICE PRESIDENT

April 29, 2014

AD14-687

Jason John, Branch Director
NAVAJO DEPARTMENT OF WATER RESOURCES
Post Office Box 678
Fort Defiance, Arizona 86504

RE: NAVAJO GALLUP WATER SUPPLY REACHES 24.1 & 25

Dear Mr. John:

The Office of Navajo Labor Relations (ONLR) received your request for prevailing wage rates for the above reference project. Please find attached the ONLR wage rates which are applicable to the pipeline construction project.

Pursuant to the NPEA Section 607(B)(1) "...In all cases where construction is contemplated for which prevailing wage rates have not been set, the contract letting entity shall submit to ONLR a written request for a project prevailing wage scale. Such request shall be submitted not less than 60 days prior to the scheduled date for bid solicitation and shall include detailed information on the anticipated construction classifications, nature' of the project and completion plans...."

The ONLR respectfully requests that Navajo Department of Water Resources to review the requirements of the Navajo Preference in Employment Act (NPEA) before any work begins. If a Pre-Construction Conference is scheduled, the Eastern Agency ONLR Office at (928) 871-6800 is to be notified and a representative will explain the applicable laws to the general contractor and subcontractors, where necessary.

Should you have any questions, contact our office at (928) 871-6800. Thank You.

Sincerely,

A handwritten signature in black ink, reading "Michael Armijo".

Michael Armijo, CEA
OFFICE OF NAVAJO LABOR RELATIONS

ATTACHMENTS

Office of Navajo Labor Relations

Post Office Box 1943 • Window Rock (Navajo Nation), Arizona 86515 • Telephone (928) 871-6800/6801 • Facsimile (928) 871-7088

OFFICE OF NAVAJO LABOR RELATIONS
PREVAILING WAGE



Wage Decision Number: ONLR14-0238P

Date Issued: April 29, 2014

PIPELINE CONSTRUCTION

Pipeline Construction includes the construction, demolition, rehabilitation or repairs of gas, oil and water pipelines, gas and oil pumping stations and compressor stations work.

**NAVAJO GALLUP WATER SUPPLY REACHES 24.1 & 25
NAVAJO DEPARTMENT OF WATER RESOURCES**

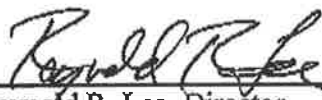
Effective January 1, 2014

Trade Classifications:	Hourly Rate:
Carpenter	\$ 21.96
Electrician	\$ 19.71
Grouting Technician	\$ 20.15
Insulator	\$ 19.31
Ironworker	\$ 20.63
Laborer	\$ 16.50
Painter	\$ 17.03
Plumber/Pipefitter	\$ 21.39
Sheet Metal Worker	\$ 20.91
Welder	\$ 32.15
Rig time will be determined between Employer and Employee(s) at time of need.	
Welder's Helper	\$ 21.15
Truck Drivers:	Hourly Rate:
Truck/Trailer	\$ 18.00
Equipment Operators:	Hourly Rate:
Backhoe	\$ 19.00
Boom	\$ 25.96
Bulldozer	\$ 19.59
Crane	\$ 21.23
Forklift	\$ 18.83
Front End Loader	\$ 19.15
Motor Grader	\$ 20.00
Track Hoe	\$ 21.00

Trencher	\$ 20.00

The rates listed above are required minimum ONLR Prevailing Wage Rates. Contractors may pay rates above these rates. The ONLR Director will add wage rates for unlisted classifications needed for work only after review and approval. Overtime is one and one-half times the basic rate for hours worked over forty hours in one week. Foremen will receive an additional \$3.50 per hour. **Where federal funds are involved, the Davis-Bacon rates apply.** Other exceptions may apply in accordance with the *Navajo Preference in Employment Act (NPEA)*, Section 7(E). Apprentices must be enrolled in a recognized apprenticeship program as required by Section 7(A)(6) of the NPEA. The appropriate apprenticeship program as outlined by the NPEA Section 7(E)(7) will govern wage rates for such apprentices. These wages apply only to the **NAVAJO GALLUP WATER SUPPLY REACHES 24.1 & 25** construction project.

APPROVED:


Reynold R. Lee, Director

04.29.14
Date

cc: Gililand Damon, Labor Compliance Officer, Eastern Agency ONLR Office

REVISED 1/1/2014marmiljo

**Office of Navajo Labor Relations
Pre-construction Conference Presentation**



Office of Navajo Labor Relations

Pre-construction Conference Presentation

Many questions do arise when ONLR conducts an orientation, and some presenters will allow participants to ask questions only until the presentation is completed. However, in my presentation, you may pose a question for clarification at any time, which will enable you to comprehend and fully comply with the requirements of the Navajo Preference in Employment Act with respect to this project.



Office of Navajo Labor Relations

- ❑ Is mandated to monitor and enforce the Navajo Preference in Employment Act;
- ❑ is responsible for implementing and carrying out the labor policies of the Navajo Nation;
- ❑ Acts as an administrative agency for matters relating to employment;
- ❑ Gathers information relating to employment; and
- ❑ Recommends and proposes policies, rules, regulations, and specific Navajo preference plans to the Human Services Committee of the Navajo Nation Council



Office of Navajo Labor Relations

- ❑ Administration: 928.871.6800
- ❑ Fort Defiance Agency: 928.871.7429
- ❑ Eastern Agency: 928.871.7431
- ❑ Central Agency: 928.674.2214
- ❑ Northern Agency: 505.368.1142
- ❑ Tuba City Agency: 928.283.3100
- ❑ Kayenta Agency: 928.697.5645



Navajo Preference in Employment Act with respect to jurisdiction

- ❑ All employers doing business within the Navajo Nation or having a contract with the Navajo Nation are required to fully abide by the Navajo Preference in Employment Act
- ❑ Within the Navajo Nation there are various employers e.g. the Navajo Nation Government; Navajo Nation Entities (NTUA, NHA etc.); and private employers (Mining Companies, Construction Contractors, etc.).
- ❑ Employers in communities outside the Navajo Nation that are dependent on the Navajo Nation for services e.g. Fire Dept, Police Dept, etc.



Contractors' Responsibilities

- ❑ Comply with each provision of the Navajo Preference in Employment Act
- ❑ Give preference in employment to enrolled members of the Navajo Nation
- ❑ Compensate its workers in accordance with the project's established wage rates
- ❑ Submit information and/or documents to the ONLR
- ❑ Note that the Prime Contractor is responsible for all its subcontractors



Give preference in employment to enrolled members of the Navajo Nation

- ❑ Utilize Navajo Nation employment sources and job services for recruitment and referrals of enrolled members of the Navajo Nation (Section 4.B)
- ❑ Advertise all vacancies in one newspaper covering the Navajo Nation (Section 4.B.);
- ❑ Advertise all vacancies in one radio station covering the Navajo Nation (Section 4.B.);
- ❑ Specify a Navajo employment preference policy statement in all job announcements and advertisements (Section 4.B.);



Compliance with the Navajo Preference in Employment Act

- ❑ Post in a conspicuous place on its premises for its employees and applicants a Navajo preference policy notice (Section 4.B);
- ❑ Use non-discriminatory job qualifications and selection criteria in employment (Section 4.B);
- ❑ Not penalize, discipline, discharge not take any adverse action against any employee without just cause (Section 4.B);
- ❑ Issue a written notification to the employee for any and all actions e.g. employment termination taken against the employee (Section 4.B);



Compliance with the Navajo Preference in Employment Act

- ❑ Maintain a safe and clean working environment and provide employment conditions which are free of prejudice, intimidation and/or harassment (Section 4.B)
- ❑ Establish written necessary qualifications for each employment position to be utilized on the project; (Section 4.D);
- ❑ Provide to applicants and or candidates a copy of the written necessary qualifications at the time they express an interest in such position (Section 4.D);
- ❑ Post in a conspicuous place on its premises a copy of the Project Wage Determination (Section 4.B);



Compensate its employees in accordance with the established Project Wage Determination

- ❑ Federally Funded Projects – Davis Bacon Wage Determination;
- ❑ State Funded Projects – State Wage Determination;
- ❑ Privately Funded Projects – Navajo Nation Wage Determination; and
- ❑ Navajo Nation Funded Projects – Navajo Nation Wage Determination.



Compliance with the Navajo Preference in Employment Act

- ❑ Irrespective of the qualification of any non-Navajo applicant or candidate, any Navajo applicant or candidate who demonstrates the necessary qualifications for an employment position: 1.) shall be selected by the employer in the case of hiring, promotion, transfer, upgrading, recall and other employment opportunities with respect to such position; and 2.) shall be retained by the employer in the case of a reduction-in-force affecting such class of positions until all non-Navajos employed in that class of positions are laid-off
- ❑ Among a pool of applicants or candidates who are solely Navajo and meet the necessary qualifications, the Navajo with the best qualifications shall be selected or retained.



Give preference in employment to enrolled members of the Navajo Nation

- ❑ 1st preference: enrolled members of the Navajo Nation (census number)
- ❑ 2nd preference: non-Navajo spouses (a non-Navajo who is legally married to a Navajo by proof of marriage by a valid marriage certificate and who has resided within the territorial jurisdiction of the Navajo Nation for one continuous year preceding the application for Navajo preference consideration)
- ❑ 3rd preference: all others

Submit required information and/or documents to ONLR

(Note: The Prime Contractor shall be responsible for each of their subcontractor's submittals)

- List of Key personnel – Project Manager, Project Superintendent, and/or an individual with signatory authority, including telephone number, e-mail address, etc.
- Manpower Projection Report – must be submitted by each contractor two weeks prior to commencing work on project;
- Weekly Manpower Report – must be submitted on a weekly basis (all subcontractors will forward to prime contractor, who will then forward reports, as a package, for that week to ONLR);
- Certified Payroll Report – shall be attached to the Weekly Manpower Report;
- Project Completion Report – must be submitted two week prior to ending work on the project;



Submit required information and/or documents to ONLR

- ❑ Copies of advertisements (radio and newspaper covering the Navajo Nation)*
- ❑ Copy of job orders / request for referrals submitted to employment agencies covering the Navajo Nation*
- ❑ Job Descriptions – for each position to be utilized on the project, which shall include necessary qualifications and the duties & responsibilities for the position.*
- ❑ Employer Interview Report – name of applicant, date of interview, interviewer, hired/not hired (reasons)*
- ❑ Subcontractor listing – name and address of contact person, phone number, brief description of work to be performed and duration of subcontract work*;

(* Shall be submitted with 1st WMR/CPR)



Submit required information and/or documents to ONLR

- Navajo Affirmative Action Plan – Employer commences business within the territorial jurisdiction of the Navajo Nation shall file with ONLR a written Navajo Affirmative Action Plan (prior to commencing work). In any case where a labor organization represents employees of the employer, the plan shall be jointly filed by the employer and labor organization. A copy of the NAAP Regulations in provided in assisting each contractor in submitting a NAAP (Note: **the NAAP shall be submitted two weeks prior to commencing work**; however if it has already been submitted, indicate date & for what project)



Other required information and/or documents

- ❑ An employer-sponsored cross-cultural program shall be an essential part of the affirmative actions plans - Such program shall primarily focus on the education of management and supervisory personnel regarding the cultural and religious traditions or beliefs of Navajos and their relationship to the development of employment policies which accommodate such traditions and beliefs.
- ❑ Training – shall be an integral part of the specific affirmative action plans or activities for Navajo Preference in employment (Note: This information will be part of the NAAP and shall be submitted by each prime contractor/subcontractor commencing work on the Navajo Nation)



Clarification Time

- If you have any questions to any of the information presented, now is the time to ask, as you, as employers (contractors) commencing business within the territorial jurisdiction of the Navajo Nation, are required to fully comply with all requirements of the Navajo Preference in Employment Act and shall be accountable for full compliance, including all submittals e.g. advertisements, weekly reports, etc.



Thank You!

Remember!
Do not hesitate to contact
any of our offices should a question arise!

.....<<<<<<<>>>>>>.....

OFFICE OF NAVAJO LABOR RELATIONS
Post Office Box 1943
Window Rock, AZ 86515
928.871.6800/6801

THE NAVAJO PREFERENCE IN EMPLOYMENT ACT

**(Amended August 1, 1985)
(Amended October 25, 1990)**

**The Office of Navajo Labor Relations
The Navajo Nation
P.O. Drawer 1943
Window Rock, Arizona 86515
Phone (928) 871-6800/6801**

CO-73-90

Class "C" Resolution
No BIA Action Required.
Executive Branch Action
Necessary

RESOLUTION OF THE
NAVAJO NATION COUNCIL

Amending the Navajo Preference in Employment Act,
Title 15, Chapter 7 of the Navajo Tribal Code

WHEREAS:

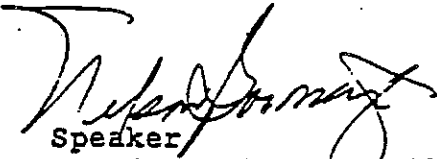
1. The Navajo Nation Council is the governing body of the Navajo Nation, 2 N.T.C., Section 102; and
2. The ability of members of the Navajo Nation to secure and retain employment within the territorial jurisdiction implicates the health, safety and welfare of the Nation; and
3. Pursuant to an Executive Order, dated February 24, 1986, the Navajo Labor Investigative Task Force was created to assess and investigate labor issues important to the Nation; and
4. By Executive Order dated November 17, 1989, the Navajo Labor Investigative Task Force was reconstituted and its authority to investigate labor matters pursuant to the 1986 Executive Order was reaffirmed; and
5. During the course of its investigation, the Navajo Labor Investigative Task Force received comments in various forms concerning labor matters as well as company and union officials. The Task Force incorporated its findings into a document, entitled Report to the Navajo Nation Council Regarding the Proposed Amendments to the Navajo Preference in Employment Act. Based on these findings and the comments received from the interested public, the Task Force proposed that the Navajo Preference in Employment Act (15 N.T.C., Section 601, et. seq.) be amended; and
6. The Navajo Labor Investigative Task Force presented its report, minutes of public meetings it conducted and proposed amendments to the Navajo Preference Act to the Human Services Committee of the Navajo Nation Council; and
7. Pursuant to its powers to recommend legislation on labor matters (2 N.T.C., Section 604(b)(3)), the Human Services Committee of the Navajo Nation Council by Resolution HSC-0024-91 dated September 26, 1990, adopted the Report to the Navajo Nation Council Regarding the Proposed Amendments to the Navajo Preference in Employment Act and recommended that the Navajo Nation Council enact into law, the Proposed Amendments to the Navajo Preference in Employment Act. (Resolution attached hereto as Exhibit "A")

NOW THEREFORE BE IT RESOLVED THAT:

The Navajo Nation Council hereby repeals in its entirety, Title 15, Chapter 7 of the Navajo Tribal Code and enacts in its place, the amendments to Title 15, Chapter 7 of the Navajo Tribal Code, attached hereto as Exhibit "B", with the exception of Section 6 (B).

CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by the Navajo Nation Council at a duly called meeting at Window Rock, Navajo Nation (Arizona), at which a quorum was present and that same was passed by a vote of 63 in favor, 0 opposed and 9 abstained, this 25th day of October 1990.

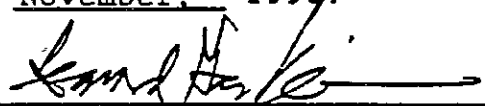

Speaker
Navajo Nation Council

October 29, 1990

Date Signed

ACTION BY THE EXECUTIVE BRANCH

1. Pursuant to 2 N.T.C., Section 1005 (c)(1), I hereby sign into law the foregoing legislation this 5th day of November, 1990:


Leonard Haskie, Interim President
Navajo Nation

* * * *

2. Pursuant to 2 N.T.C., Section 1005 (c)(10), I hereby veto the foregoing legislation this _____ day of _____ 1990 for the reason(s) expressed in the attached letter to the Speaker:

Leonard Haskie, Interim President
Navajo Nation

NAVAJO PREFERENCE IN EMPLOYMENT ACT
AMENDED OCTOBER 1990

Section 1. TITLE

- A. This Act shall be cited as the Navajo Preference in Employment Act and is hereby codified as Title 15 Chapter 7 of the Navajo Tribal Code.

Section 2. PURPOSE

- A. The purposes of the Navajo Preference in Employment Act are:
1. To provide employment opportunities for the Navajo work force;
 2. To provide training for the Navajo people;
 3. To promote the economic development of the Navajo Nation;
 4. To lessen the Navajo Nation's dependence upon off reservation sources of employment, income, goods and services;
 5. To foster the economic self-sufficiency of Navajo families; and
 6. To protect the health, safety, and welfare of Navajo workers;
 7. To foster cooperative efforts with employers to assure expanded employment opportunities for the Navajo work force.
- B. It is the intention of the Navajo Nation that the provisions of this Act be construed and applied to accomplish the purposes set forth above.

Section 3. DEFINITIONS

1. The term "Commission" shall mean the Navajo Nation Labor Commission.
2. The term "employment" shall include, but is not limited to, the recruitment, hiring, promotion, transfer, training, upgrading, reduction-in-force, retention, and recall of employees.
3. The term "employer" shall include all persons, firms, associations, corporations, and the Navajo Nation and all of its agencies and instrumentalities, who engage the services of any person for compensation, whether as employee, agent, or servant.
4. The term "Navajo" means any enrolled member of the Navajo Nation.
5. The term "ONLR" means the Office of Navajo Labor Relations.

6. The term "probable cause" shall mean a reasonable ground for belief in the existence of facts warranting the proceedings complained of.
7. The term "territorial jurisdiction" means the territorial jurisdiction of the Navajo Nation as defined in 7 NTC §254.
8. The term "counsel" or "legal counsel" shall mean (a) a person who is an active member in good standing of the Navajo Nation Bar Association and duly authorized to practice law in the courts of the Navajo Nation; and (b) for the sole purpose of co-counseling in association with a person described in clause (a), an attorney duly authorized, currently licensed and in good standing to practice law in any State of the United States who has, pursuant to written request demonstrating the foregoing qualifications and good cause, obtained written approval of the Commission to appear and participate as co-counsel in a particular Commission proceeding.
9. The term "necessary qualifications" shall mean those job-related qualifications which are essential to the performance of the basic responsibilities designated for each employment position, including any essential qualifications concerning education, training and job-related experience, but excluding any qualifications relating to ability or aptitude to perform responsibilities in other employment positions. Demonstrated ability to perform essential and basic responsibilities shall be deemed satisfaction of necessary qualifications.
10. The term "qualifications" shall include the ability to speak and/or understand the Navajo language, and familiarity with Navajo culture, customs and traditions.
11. The term "person" shall include individuals; labor organizations; tribal, federal, state and local governments, their agencies, subdivisions, instrumentalities and enterprises; and private and public, profit and non-profit, entities of all kinds having recognized legal capacity or authority to act, whether organized as corporations, partnerships, associations, committees or in any other form.
12. The term "employee" means an individual employed by an employer.
13. The term "employment agency" means a person regularly undertaking, with or without compensation, to procure employees for an employer or to obtain for employees opportunities to work for an employer.
14. The term "labor organization" or "union" means an organization in which employees participate or by which employees are represented and which exists for the purpose, in whole or in part, of dealing with employers concerning grievances, labor disputes, wages, rates of pay, hours or other terms and conditions of employment, including a national or international labor organization and any subordinate conference, general committee, joint or system board, or joint council.

15. The term "petitioner" means a person who files a complaint seeking to initiate a Commission proceeding under the Act.
16. The term "respondent" means the person against whom a complaint is filed by a petitioner.
17. The term "Act" means the Navajo Preference in Employment Act.

Section 4. NAVAJO EMPLOYMENT PREFERENCE

- A. All employers doing business within the territorial jurisdiction of the Navajo Nation, or engaged in any contract with the Navajo Nation shall:
1. Give preference in employment to Navajos. Preference in employment shall include specific Navajo affirmative action plans and timetables for all phases of employment to achieve the tribal goal of employing Navajos in all job classifications including supervisory and management positions.
 2. Within 90 days after the later of the effective date of this Section 4(A)(2) or the date on which an employer commences business within the territorial jurisdiction of the Navajo Nation, the employer shall file with ONLR a written Navajo affirmative action plan which complies with this Section and other provisions of the Act. In any case where a labor organization represents employees of the employer, the plan shall be jointly filed by the employer and labor organization. ~~Any such associated labor organization shall have obligations under this Section equivalent to those of the employer as to employees represented by such organization. Failure to file such a plan within the prescribed time limit, submission of a plan which does not comply with the requirements of the Act, or failing to implement or comply with the terms of a conforming plan shall constitute a violation of the Act. In the event of a required joint plan by an employer and associated labor organization, only the non-complying party shall be deemed in violation of the Act, as long as the other party has demonstrated a willingness and commitment to comply with the Act.~~
 3. Subject to the availability of adequate resources, ONLR shall provide reasonable guidance and assistance to employers and associated labor organizations in connection with the development and implementation of a Navajo affirmative action plan. Upon request, ONLR shall either approve or disapprove any plan, in whole or in part. In the event of approval thereof by ONLR, no Charge shall be filed hereunder with respect to alleged unlawful provisions or omissions in the plan, except upon 30 days prior written notice to the employer and any associated labor organization to enable voluntary correction of any stated deficiencies in such plan. No Charge shall be filed against an employer and any associated labor organization for submitting a non-conforming plan, except upon 30 days prior notice by ONLR identifying deficiencies in the plan which require correction.

B. Specific Requirements for Navajo Preference

1. All employers shall include and specify a Navajo employment preference policy statement in all job announcements and advertisements and employer policies covered by this Act.
2. All employers shall post in a conspicuous place on its premises for its employees and applicants a Navajo preference policy notice prepared by ONLR.
3. Any seniority system of an employer shall be subject to this Act and all other labor laws of the Navajo Nation. Such a seniority system shall not operate to defeat nor prevent the application of the Act; provided, however, that nothing in this Act shall be interpreted as invalidating an otherwise lawful and bona fide seniority system which is used as a selection or retention criterion with respect to any employment opportunity where the pool of applicants or candidates is exclusively composed of Navajos or non-Navajos.
4. The Navajo Nation when contracting with the federal or state government or one of its entities shall include provisions for Navajo preference in all phases of employment as provided herein. When contracting with any federal agency, the term Indian preference may be substituted for Navajo preference for federal purposes; provided that any such voluntary substitution shall not be construed as an implicit or express waiver of any provision of the Act nor a concession by the Navajo Nation that this Act is not fully applicable to the federal contract as a matter of law.
5. All employers shall utilize Navajo Nation employment sources and job services for employee recruitment and referrals; provided, however, that employers do not have the foregoing obligations in the event a Navajo is selected for the employment opportunity who is a current employee of the employer.
6. All employers shall advertise and announce all job vacancies in at least one newspaper and radio station serving the Navajo Nation; provided, however, that employers do not have the foregoing obligations in the event a Navajo is selected for the employment opportunity who is a current employee of the employer.
7. All employers shall use non-discriminatory job qualifications and selection criteria in employment.
8. All employers shall not penalize, discipline, discharge nor take any adverse action against any Navajo employee without just cause. A written notification to the employee citing such cause for any of the above actions is required in all cases.

9. All employers shall maintain a safe and clean working environment and provide employment conditions which are free of prejudice, intimidation and harassment.
10. Training shall be an integral part of the specific affirmative action plans or activities for Navajo preference in employment.
11. An employer-sponsored cross-cultural program shall be an essential part of the affirmative action plans required under the Act. Such program shall primarily focus on the education of non-Navajo employees, including management and supervisory personnel, regarding the cultural and religious traditions or beliefs of Navajos and their relationship to the development of employment policies which accommodate such traditions and beliefs. The cross-cultural program shall be developed and implemented through a process which involves the substantial and continuing participation of an employer's Navajo employees, or representative Navajo employees.
12. No fringe benefit plan addressing medical or other benefits, sick leave program or any other personnel policy of an employer, including policies jointly maintained by an employer and associated labor organization, shall discriminate against Navajos in terms or coverage as a result of Navajo cultural or religious traditions or beliefs. To the maximum extent feasible, all of the foregoing policies shall accommodate and recognize in coverage such Navajo traditions and beliefs.

C. Irrespective of the qualifications of any non-Navajo applicant or candidate, any Navajo applicant or candidate who demonstrates the necessary qualifications for an employment position:

1. Shall be selected by the employer in the case of hiring, promotion, transfer, upgrading, recall and other employment opportunities with respect to such position; and
2. Shall be retained by the employer in the case of a reduction-in-force affecting such class of positions until all non-Navajos employed in that class of positions are laid-off, provided that any Navajo who is laid-off in compliance with this provision shall have the right to displace a non-Navajo in any other employment position for which the Navajo demonstrates necessary qualifications.

Among a pool of applicants or candidates who are solely Navajo and meet the necessary qualifications, the Navajo with the best qualifications shall be selected or retained, as the case may be.

D. All employers shall establish written necessary qualifications for each employment position in their work force, a copy of which shall be provided to applicants or candidates at the time they express an interest in such position.

SECTION 5. REPORTS

All employers doing business or engaged in any project or enterprise within the territorial jurisdiction of the Navajo Nation or pursuant to a contract with the Nation shall submit employment information and reports as required to ONLR. Such reports, in a form acceptable to ONLR, shall include all information necessary and appropriate to determine compliance with the provisions of this Act. All reports shall be filed with ONLR not later than 10 business days after the end of each calendar quarter, provided that ONLR shall have the right to require filing of reports on a weekly or monthly schedule with respect to part-time or full-time temporary employment.

SECTION 6. UNION AND EMPLOYMENT AGENCY ACTIVITIES/RIGHTS OF NAVAJO WORKERS

- A. Subject to lawful provisions of applicable collective bargaining agreements, the basic rights of Navajo workers to organize, bargain collectively, strike, and peaceable picket to secure their legal rights, shall not be abridged in any way by any person. The right to strike and picket does not apply to employees of the Navajo Nation, its agencies, or enterprises.
- B. It shall be unlawful for any labor organization, employer or employment agency to take any action, including action by contract, which directly or indirectly causes or attempts to cause the adoption or use of any employment practice, policy or decision which violates the Act.

SECTION 7. NAVAJO PREVAILING WAGE

- A. Definitions. For purposes of this Section, the following terms shall have the meanings indicated:
 - 1. The term "prevailing wage" shall mean the wage paid to a majority (more than 50 percent) of the employees in the classification on similar construction projects in the area during a period not to exceed 24 months prior to the effective date of the prevailing wage rate set hereunder; provided that in the event the same wage is not paid to a majority of the employees in the classification, "prevailing wage" shall mean the average of the wages paid, weighted by the total number of employees in the classification.
 - 2. The term "prevailing wage rate" shall mean the rate established by ONLR pursuant to this Section.
 - 3. The term "wage" shall mean the total of:
 - (A) the basic hourly rate; and
 - (B) the amount of (i) contributions irrevocably made by a contractor or

subcontractor to a trustee or to a third person pursuant to a bona fide fringe benefit fund, plan or program for the benefit of employees and (ii) costs to the contractor or subcontractor which may be reasonably anticipated in providing bona fide fringe benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected. The types of fringe benefits contemplated hereunder include medical or hospital health care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing; unemployment benefits; life insurance, disability insurance, sickness insurance, or accident insurance; vacation or holiday pay; defraying costs of apprenticeship or other similar programs; or other bona fide fringe benefits.

4. The term "area" in determining the prevailing wage means the geographic area within the territorial jurisdiction of the Navajo Nation; provided that in the event of insufficient similar construction projects in the area during the period in question, "area" shall include the geographic boundaries of such contiguous municipal, county or state governments as ONLR may determine necessary to secure sufficient wage information on similar construction projects.
5. The term "classifications" means all job positions in which persons are employed, exclusive of classifications with assigned duties which are primarily administrative, executive or clerical, and subject to satisfaction of the conditions prescribed in Sections (E)(7) and (8), exclusive of "apprentice" and "trainee" classifications as those terms are defined herein.
6. "Apprentice" means (a) a person employed and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with an Apprenticeship Agency administered by a State or Indian Tribe and recognized by the Bureau, or (b) a person in the first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State or Tribal Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.
7. "Trainee" means a person registered and receiving on-the-job training in a construction occupation under a program which has been approved in advance by the U.S. Department of Labor, Employment and Training Administration, as meeting its standards for on-the-job training programs and which has been so certified by that Administration, or (b) employed and/or receiving on-the-job training under a public employment or work experience program which is approved and funded by the Navajo Nation.

8. The term "construction" shall mean all activity performed under a contract which relates to (a) the building, development, rehabilitation, repair, alteration or installation of structures and improvements of all types, including without limitation buildings, bridges, dams, plants, highways, sewers, water mains, powerlines and other structures; (b) drilling, blasting, excavating, clearing and landscaping, painting and decorating; (c) transporting materials and supplies to or from the site of any of the activities referred to in (a) or (b) by employees of the contractor or subcontractor; and (d) manufacturing or finishing materials, articles, supplies or equipment at the construction site of any of the foregoing activities by employees of the contractor or subcontractor.
9. The term "contract" shall mean the prime construction contract and all subcontracts of any tier thereunder entered into by parties engaged in commercial, business or governmental activities (whether or not such activities are conducted for profit).

B. Establishment

1. For all construction reasonably anticipated to occur in the area on a regular basis, ONLR shall establish a general prevailing wage rate for each classification within specified types of construction. ONLR shall define classifications and types of construction in accordance with guidelines generally recognized in the construction industry. In all cases where construction is contemplated for which prevailing wage rates have not been set, the contract letting entity shall submit to ONLR a written request for a project prevailing wage scale. Such request shall be submitted not less than 60 days prior to the scheduled date for bid solicitation and shall include detailed information on the anticipated construction classifications, nature of the project and completion plans. ONLR shall use its best efforts to provide a project prevailing wage scale, for each classification involved in the project construction, within 60 days after receipt of a request therefor.
2. In setting prevailing wage rates, ONLR shall conduct such surveys and collect such data as it deems necessary and sufficient to arrive at a wage determination. Wage data may be collected from contractors, contractors' associations, labor organizations, public officials and other sources which reflect wage rates paid in classifications on types of construction in the area, including the names and addresses of contractors and subcontractors; the locations, approximate costs, dates and types of construction; the number of workers employed in each classification on the project; and the wage rates paid such workers. Wage rate data for the area may be provided, and considered in making wage determinations, in various forms including signed statements, collective bargaining agreements and prevailing wage rates established by federal authorities for federally-assisted construction projects.
3. Any classification of workers not listed in a prevailing wage rate and which is to be used under a construction contract shall be classified in conformance

with the prevailing wage determination issued and applicable to the project; provided that an additional classification and prevailing wage rate therefor will be established in the event each of the following criteria are satisfied:

- (a) The work performed by the proposed classification is not performed by a classification within the existing prevailing wage scale;
 - (b) The proposed classification is utilized in the area by the construction industry; and
 - (c) The wages set for the proposed classification bear a reasonable relationship to the wage rates contained in the existing scale for other classifications.
4. (a) Subject to the prior written approval thereof by the Director of ONLR, a general prevailing wage rate shall be effective on the date notice of such rate is published in a newspaper in general circulation in the Navajo Nation. The notice shall contain the following information:
- (i) The fact a prevailing wage rate has been set and approved in writing by the Director of ONLR;
 - (ii) The type of construction for which the rate was established;
 - (iii) The effective date, described as the date of publication of the notice or other specified date;
 - (iv) The address and telephone number of ONLR; and
 - (v) A statement that ONLR will provide a copy of the full wage determination on request, and respond to any reasonable questions regarding such determination or its application.

General prevailing wage rates shall continue in effect until such time as any modifications are adopted.

- (b) A prevailing wage rate for a particular project shall be effective on the date of issuance to the requesting party of a written wage determination approved by the Director of ONLR. The wage determination shall continue in effect for the duration of the project; provided that any such determination may be modified by ONLR in the event the period of time from the effective date of the determination to the date bids are solicited exceeds 180 days and the estimated date of completion of the project is more than one year after the effective date of the determination.

- (c) Project and general wage determinations may be modified from time to time, in whole or in part, to adjust rates in conformity with current conditions, subject to the special conditions applicable to project determinations. Such modifications become effective upon the same terms and conditions which are applicable to original determinations.
- (d) Fringe Benefits. The fringe benefit amount of wages reflected in a prevailing wage rate shall be paid in cash to the employee, and shall not be deducted from such employee's wages, unless each of the following conditions is satisfied:
 - (i) The deduction is not contrary to applicable law;
 - (ii) A voluntary and informed written consent authorizing the deduction is obtained from the employee in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining or continuing employment;
 - (iii) No profit or other benefit is obtained as a result of a deduction, directly or indirectly, by the contractor, subcontractor or any person affiliated with them in the form of a commission, dividend or other consideration; and
 - (iv) The deduction serves the convenience and interests of the employee.

- D. 1. No contract-letting entity, contractor or subcontractor shall proceed with a construction contract subject to this Section in the absence of a contractual requirement for payment of prevailing wages pursuant to a specified wage determination issued by ONLR. Violation of this obligation shall render the contract-letting entity, and the employer contractor or subcontractor, jointly and severally liable for the difference between wages actually paid and the prevailing wage rate, together with interest thereon (or if no prevailing wage rates have been set, such wage rate as may be issued by ONLR during the course, or after the completion, of the construction project).
- 2. Failure by any employer, contractor or subcontractor to pay prevailing wages shall render such employer liable for the difference between the amount of wages actually paid and the prevailing rate, together with interest thereon.
- 3. Any deduction of fringe benefits by an employer contractor or subcontractor in violation of Section 7(C) shall render such employer liable for the amount of such deduction, together with interest thereon.
- 4. Upon written request of ONLR, a contract-letting entity or contractor, as the case may be, shall withhold from any monies payable on account of work performed by an employer contractor or subcontractor under a construction

contract such sums as may be determined by ONLR as necessary to satisfy any liabilities of such contractor or subcontractor for unpaid prevailing wages or wrongful deduction of fringe benefits.

5. If following a hearing under Section 11 a contract-letting entity (other than the Navajo Nation), contractor or subcontractor is found to have willfully violated this Section the Commission may enter a debarment order disqualifying such party from receiving any contract, or subcontract thereunder, with the Navajo Nation for a period not to exceed three years.
6. The liabilities described in this Section 7(D) shall not foreclose the Commission from awarding such other relief or imposing such other civil penalties as may be appropriate following a hearing conducted under Section 11.

E. Exemptions. This Section shall not apply to:

1. A contract associated with a construction activity which relates to the provision of architect, engineer, legal or consultant services, or, except as provided under Section 7(A)(8)(d), the manufacturing or furnishing of materials or performance of services and maintenance work by persons not employed by a prime contractor or any of its subcontractors.
2. A construction contract relating to a project having a total cost of \$2,000 or less.
3. A construction contract which is let by a natural person who is an owner or person legally authorized to let such contract, for such person's personal, family or household purposes.
4. A construction contract to the extent the work thereunder is performed by employees of the owner, or employees of the person or entity legally authorized to let the prime contract.
5. A construction contract for a project receiving federal financial assistance to the extent the prevailing wage is set by federal authorities pursuant to the Davis-Bacon Act, 40 U.S.C. §§ 276a et seq. (as amended), or other federal law applicable to such project.
6. A construction contract to the extent such contract requires payment of wages pursuant to a wage scale established under a collective bargaining agreement between any contractor or subcontractor and a labor organization.
7. With the exception of the provisions of Section 7(C), an apprentice provided that the apprentice is paid not less than (a) the basic hourly rate prescribed in the registered program for the apprentice's level of progress, expressed as a percentage of the applicable journeyman rate specified in the prevailing

wage rate, and (b) the fringe benefit amount prescribed in the registered program or, if not specified, the fringe benefit amount set in the prevailing wage rate for the applicable journeyman classification. An apprentice who is not enrolled in a registered program (within the meaning of Section 7(A)(6)), shall be paid wages in an amount not less than the level prescribed for the applicable journeyman classification specified in the prevailing wage rate.

8. With the exception of the provisions of Section 7(c), a trainee provided that the trainee is paid not less than (a) the basic hourly rate prescribed in the approved program for the trainee's level of progress, expressed as a percentage of the applicable journeyman rate specified in the prevailing wage rate and (2) the fringe benefit amount prescribed in the approved program or, if not specified and as to federally approved programs only, the fringe benefit amount set in the prevailing wage rate for the applicable journeyman classification. A trainee who is not enrolled in an approved program (within the meaning of Section 7(A)(8)), shall be paid wages in an amount not less than the level prescribed for the applicable journeyman classification specified in the prevailing wage rate.

SECTION 8. HEALTH AND SAFETY OF NAVAJO WORKERS

Employers shall, with respect to business conducted within the territorial jurisdiction of the Navajo Nation, adopt and implement work practices which conform to occupational safety and health standards imposed by law.

SECTION 9. CONTRACT COMPLIANCE

- A. All transaction documents, including without limitation, leases, subleases, contracts, subcontracts, permits, and collective bargaining agreements between employers and labor organizations (herein collectively "transaction documents") which are entered into by or issued to any employer and which are to be performed within the territorial jurisdiction of the Navajo Nation shall contain a provision pursuant to which the employer and any other contracting party affirmatively agree to strictly abide by all requirements of this Act. With respect to any transaction document which does not contain the foregoing provision, the terms and provisions of this Act are incorporated therein as a matter of law and the requirements of the Act shall constitute affirmative contractual obligations of the contracting parties. In addition to the sanctions prescribed by the Act, violation of the Act shall also provide grounds for the Navajo Nation to invoke such remedies for breach as may be available under the transaction document or applicable law. To the extent of any inconsistency or conflict between a transaction document and the Act, the provision of the transaction document in question shall be legally invalid and unenforceable and the Act shall prevail and govern the subject of the inconsistency or conflict.
- B. Every bid solicitation, request for proposals and associated notices and advertisements which relate to prospective contracts to be performed within the

territorial jurisdiction of the Navajo Nation shall expressly provide that the contract shall be performed in strict compliance with this Act. With respect to any such solicitation, request, notice or advertisement which does not contain the foregoing provision, the terms and provisions of this Act are incorporated therein as a matter of law.

SECTION 10. MONITORING AND ENFORCEMENT

- A. Responsible Agency. Compliance with the Act shall be monitored and enforced by ONLR.
- B. Charges.
 - 1. Charging Party. Any Navajo may file a charge ("Individual Charge") claiming a violation of his/her rights under the Act. ONLR, on its own initiative, may file a charge ("ONLR Charge") claiming a violation of rights under the Act held by identified Navajos or a class of Navajos, including a claim that respondent is engaging in a pattern of conduct or practice in violation of rights guaranteed by the Act. An Individual Charge and ONLR Charge are collectively referred to herein as a "Charge".
 - 2. Form and Content. A Charge shall be in writing, signed by the charging party (which shall be the Director of ONLR in the case of an ONLR Charge), and contain the following information:
 - (a) The name, address and any telephone number of the charging party;
 - (b) The name and address or business location of the respondent against whom the Charge is made;
 - (c) A clear and concise statement of the facts constituting the alleged violation of the Act, including the dates of each violation and other pertinent events and the names of individuals who committed, participated in or witnessed the acts complained of;
 - (d) With respect to a Charge alleging a pattern or practice in violation of the Act, the period of time during which such pattern or practice has existed and whether it continues on the date of the Charge;
 - (e) The specific harm sustained by the charging party in the case of an Individual Charge or the specific harm sustained by specified Navajos or a class of Navajos with respect to an ONLR Charge; and
 - (f) A statement disclosing whether proceedings involving the alleged violation have been initiated before any court or administrative agency or within any grievance process maintained by the respondent, including the date of commencement, the court, agency or process and the status of the proceeding.

ONLR shall provide assistance to persons who wish to file Individual Charges. Notwithstanding the foregoing provisions, a Charge shall be deemed sufficient if it contains a reasonably precise identification of the charging party and respondent, and the action, pattern or practice which are alleged to violate the Act.

3. Place of Filing. Individual Charges may be filed in any office of ONLR. An ONLR Charge shall be filed in ONLR's administrative office in Window Rock.
4. Date of Filing. Receipt of each Individual Charge shall be acknowledged by the dated signature of an ONLR employee which shall be deemed the date on which the Individual Charge is filed. The date on which an ONLR Charge is signed by the ONLR Director shall be deemed the date of filing for such Charge.
5. Amendment. A Charge may be amended by filing, in the office where the Charge was first submitted, a written instrument which sets forth the amendment and any portions of the original Charge revised thereby. To the extent the information reflected in the amendment arose out of the subject matter of the original Charge, the amendment shall relate back and be deemed filed as of the filing date of such Charge. Any portion of the amendment which does not qualify for relation back treatment shall constitute a new Charge.
6. Time Limitation. A Charge shall be filed within one year after accrual of the claim which constitutes the alleged violation of the Act. The date of accrual of a claim shall be the earlier of
 - (a) the date on which the charging party had actual knowledge of the claim, or
 - (b) taking into account the circumstances of the charging party, the date on which the charging party should reasonably have been expected to know of the existence of the claim; provided, however, that a Charge relating to a continuing, or pattern or practice, violation of the Act shall be filed within one year after the later of
 - (i) the date of termination of such violation, pattern or practice or
 - (ii) the date of accrual of the claim to which the Charge relates. Failure to file a Charge within the time limitations prescribed herein shall bar proceedings on the related claim before the Commission or in any Court of the Navajo Nation; provided, however, that nothing herein shall be interpreted as foreclosing proceedings before any Navajo Court or administrative body (other than the Commission) on any claim which also arises

under applicable common, statutory or other law independent of this Act.

7. Notice to Respondent. Within 20 days after a Charge is filed, ONLR shall serve a copy thereof on respondent; provided, however, that if in ONLR's judgment service of a copy of the Charge would impede its enforcement functions under the Act, ONLR may in lieu of a copy serve on respondent a notice of the Charge which contains the date, place and summary of relevant facts relating to the alleged violation, together with the identity of the charging party unless withheld for the reason stated above. Service of any amendment to the Charge shall be accomplished within 20 days after the amendment is filed. Failure of ONLR to serve a copy of a Charge or notice thereof within the prescribed time period shall not be a ground for dismissal of the Charge or any subsequent proceedings thereon.
8. Withdrawal of Charge.
 - (a) ONLR may, in its discretion, withdraw any ONLR Charge upon written notice thereof to respondent and each person identified in the Charge whose rights under the Act were alleged to have been violated. Any person receiving notice of withdrawal or any other person who asserts a violation of his/her rights as a result of the violation alleged in the withdrawn ONLR Charge may file an Individual Charge which, if filed within 90 days after the issuance date of ONLR's withdrawal notice, shall relate back to the filing date of the ONLR Charge.
 - (b) Any charging party may, in his/her discretion, withdraw an Individual Charge by filing a written notice of withdrawal with the ONLR office where the Charge was submitted, with a copy thereof filed with the ONLR administrative office in Window Rock. ONLR shall, within 20 days after receiving the notice, transmit a copy to the respondent. Within 90 days after receipt of the withdrawal notice, ONLR may file an ONLR Charge relating in whole or part to the violations alleged in the withdrawn Individual Charge. Any filing of an ONLR Charge within the prescribed time period shall relate back to the filing date of the withdrawn Charge.
9. Overlapping Charges. Nothing herein shall be construed as prohibiting the filing of any combination of Individual Charges and an ONLR Charge which, in whole or part, contain common allegations of violations of the Act.
10. Informants. Irrespective of whether a person is otherwise eligible to file an Individual Charge, any such person or an organization may in lieu of filing a Charge submit to ONLR written or verbal information concerning alleged violations of the Act and may further request ONLR to file an ONLR Charge thereon. In addition to other limitations on disclosure provided in Section 10(M) and in the absence of the written consent of the informant, neither the

identity of the informant nor any information provided by such informant shall be disclosed to the respondent, agents or legal counsel for the respondent, or the public, either voluntarily by ONLR or pursuant to any discovery or other request for, or order relating to, such information during the course of any judicial or non-judicial proceeding, including a proceeding before the Commission or any subsequent appeal or challenge to a Commission or appellate decision; provided, however, that in the event the informant is called as a witness by ONLR at a Commission proceeding involving the information provided by the informant,

- (a) the informant's name may be disclosed, but his/her status as an informant shall remain privileged and confidential and shall not be disclosable through witness examination or otherwise, and
- (b) with the exception of the witness status as an informer, information provided by the informant is disclosable in accordance with the procedures outlined under Section 10(M).

C. Investigation of Charges.

1. General. ONLR shall conduct such investigation of a Charge as it deems necessary to determine whether there is probable cause to believe the Act has been violated.
2. Subpoenas.
 - (a) The Director of ONLR shall have the authority to sign and issue a subpoena compelling the disclosure by any person evidence relevant to a Charge, including a subpoena ordering, under oath as may be appropriate:
 - (i) The attendance and testimony of witnesses;
 - (ii) Responses to written interrogatories;
 - (iii) The production of evidence, including without limitation books, records, correspondence or other documents (or lists or summaries thereof) in the subpoenaed person's possession, custody or control or which are lawfully obtainable by such person; and
 - (iv) Access to evidence for the purposes of examination and copying. Neither an individual charging party nor a respondent shall have a right to demand issuance of a subpoena prior to the initiation of any proceedings on the Charge before the Commission, in which event subpoenas are issuable only pursuant to the procedures governing such proceedings.

- (b) Service of the subpoena shall be effected by one of the methods prescribed in Section 10(O). A subpoena directed to a natural person shall be served either on the person at his/her residence or office address or, in the case of personal delivery, at such residence or office either on the person subpoenaed or on anyone at least eighteen years of age (and in the case of office service, a person who is also an employee of such office). Service of a subpoena directed to any other person shall be addressed or delivered to either the statutory agent (if any) of such person or any employee occupying a managerial or supervisory position at any office of the person maintained within or outside the territorial jurisdiction of the Navajo Nation. Personal service may be performed by a natural person at least eighteen years of age, including an employee of ONLR.
- (c) The subpoena shall set a date, time and place for the attendance of a witness, or production of or access to evidence, as the case may be, provided that the date for compliance shall be not less than 30 days after the date on which service of the subpoena was effected.
- (d) Any person served with a subpoena intending not to fully comply therewith shall, within five business days after service, serve on the Director of ONLR a petition requesting the modification or revocation of the subpoena and identifying with particularity each portion of the subpoena which is challenged and the reasons therefor. To the extent any portion of the subpoena is not challenged, the unchallenged parts shall be complied with in accordance with the terms of the subpoena as issued. The ONLR Director shall issue and serve on petitioner a decision and reasons therefor within eight business days following receipt of the petition, and any failure to serve a decision within such period shall be deemed a denial of the petition. In the event the Director's decision reaffirms any part of the subpoena challenged in the petition, the Director may extend the date for compliance with such portion for a period not to exceed 10 business days. Any petitioner dissatisfied with the decision of the ONLR Director shall either
- (1) comply with the subpoena (with any modifications thereto reflected in the Director's decision) or
 - (2) within five business days following receipt of the Director's decision or the date such decision was due, file a petition with the Commission (with a copy concurrently served on the ONLR Director) seeking modification or revocation of the subpoena and stating with particularity therein each portion of the subpoena challenged and the reasons therefor. A copy of the ONLR Director's decision, if any, shall be attached to the petition.

- (e) In the event a person fails to comply with a served subpoena, ONLR may petition the Commission for enforcement of the subpoena. For purposes of awarding any relief to petitioner, the Commission may issue any order appropriate and authorized in a case where it is established that a Commission order has been violated. A copy of the petition shall be concurrently served on the non-complying person.
- (f) Beginning on the first day of non-compliance with a subpoena served on a respondent, or any employee or agent of respondent, until the date of full compliance therewith, there shall be a tolling of all periods of limitation set forth in this Section 10.

D. Dismissal of Charges.

1. Individual Charges. ONLR shall dismiss an Individual Charge upon reaching any one or more of the following determinations:
 - (a) The Individual Charge, on its face or following an ONLR investigation, fails to demonstrate that probable cause exists to believe a violation of the Act has occurred;
 - (b) The Individual Charge was not filed within the time limit prescribed by Section 10(B)(6);
 - (c) The charging party has failed to reasonably cooperate in the investigation of, or attempts to settle, the Individual Charge;
 - (d) The charging party has refused, within 30 days of receipt, to accept a settlement offer agreed to by respondent and approved by ONLR, which accords substantially full relief for the harm sustained by such party; or
 - (e) The Charge has been settled pursuant to Section 10(G).
2. ONLR Charges. ONLR shall dismiss an ONLR Charge upon determining that
 - (a) no probable cause exists to believe a violation of the Act has occurred,
 - (b) the Charge was not filed within the time limits prescribed by Section 10(B)(6), or
 - (c) the Charge has been settled pursuant to Section 10(G).
3. Partial Dismissal. In the event a portion of a Charge is dismissable on one or more of the foregoing grounds, only such portion of the Charge

shall be dismissed and the remainder retained by ONLR for final disposition.

4. Notice. Written notice of dismissal, stating the grounds therefor, shall be served on respondent and the individual charging party in the case of an Individual Charge or, in the case of an ONLR Charge, on the respondent and any person known to ONLR who claims to be aggrieved by the violations alleged in such Charge. Such notice shall be accompanied by a right to sue authorization pursuant to Section 10(H).
- E. Probable Cause Determination. Following its investigation of a Charge and in the absence of a settlement or dismissal required under Section 10(D), ONLR shall issue written notice of its determination that probable cause exists to believe a violation of the Act has occurred or is occurring. Such notice shall identify each violation of the Act for which probable cause has been found, and copies thereof shall be promptly sent to the respondent, the charging party in the case of an Individual Charge, and, in the case of an ONLR Charge, each person identified by ONLR whose rights are believed to have been violated. Any probable cause determination shall be based on, and limited to, the evidence obtained by ONLR and shall not be deemed a judgment by ONLR on the merits of allegations not addressed in the determination.
- F. Conciliation. If, following its investigation of a Charge, ONLR determines there is probable cause to believe the Act has been or is being violated, ONLR shall make a good faith effort to secure compliance and appropriate relief by informal means through conference, conciliation and persuasion. In the event there is a failure to resolve the matter informally as to any allegations in an Individual Charge for which probable cause has been determined, ONLR shall either issue the notice prescribed in Section 10(H) or initiate a Commission proceeding under Section 10(I) concerning unresolved allegations. A successful resolution of any such allegation shall be committed to writing in the form required under Section 10(G). Nothing herein shall be construed as prohibiting ONLR from initiating or participating in efforts to informally resolve a Charge prior to issuance of a probable cause determination.
- G. Settlement.
1. Settlement agreements shall be committed to writing and executed by respondent, the individual charging party if any and, in the case of any Charge, by the Director of ONLR. Refusal of an individual charging party to execute a settlement agreement subjects the Individual Charge to dismissal under the conditions set forth in Section 10(D)(1)(d). Settlement agreements may also be signed by those aggrieved persons identified as having a claim with respect to an ONLR Charge.
 2. Settlement agreements hereunder shall be enforceable among the parties thereto in accordance with the terms of the agreement. Any member of a

class of persons affected by the settlement who is not a signatory to the agreement shall have the right to initiate proceedings before the Commission pursuant to the procedure in Section 10(H)(2)(a)(iii).

3. Each settlement agreement shall provide for the dismissal of the Charge to the extent the violations alleged therein are resolved under the agreement.
4. Any breach of a settlement agreement by respondent shall present grounds for filing a Charge under this Section 10. A charging party asserting a claim for breach may either seek
 - (a) enforcement of that portion of the settlement agreement alleged to have been breached, or
 - (b) in the case of a material breach as to any or all terms, partial or total rescission of the agreement, as the case may be, and such other and further relief as may have been available in the absence of settlement. A Charge asserting a breach of a settlement agreement with respect to any original allegation in the Charge covered by such agreement shall, for purposes of all time limitations in this Section 10, be deemed to arise on the accrual date of the breach.

H. Individual Right to Sue.

1. Individual Charges.

- (a) Prior to the expiration of 180 days following the date an Individual Charge was filed, ONLR, by notice to the individual charging party, shall authorize such individual to initiate a proceeding before the Commission in accordance with the procedures prescribed in Section 10(J), if:
 - (i) The Individual Charge has been dismissed by ONLR pursuant to Section 10(D)(1);
 - (ii) ONLR has issued a probable cause determination under Section 10(E), there has been a failure of conciliation contemplated by Section 10(F), and ONLR has determined not to initiate a Commission proceeding on behalf of the individual charging party; or
 - (iii) Notwithstanding the absence of a probable cause determination or conclusion of conciliation efforts, ONLR certifies it will be unable to complete one or both of these steps within 180 days after the date on which the Individual Charge was filed.
- (b) After the expiration of 180 days following the date an Individual Charge was filed, the individual charging party shall have the right to

initiate a proceeding before the Commission irrespective of whether ONLR has issued a notice of right to sue, made a probable cause determination, or commenced or concluded conciliation efforts.

2. ONLR Charges.

- (a) Prior to the expiration of 180 days following the date an ONLR Charge was filed, ONLR, by notice to any person known to it who claims to be aggrieved by the allegations presented in such Charge, shall authorize such person to initiate a proceeding before the Commission in accordance with the procedures prescribed in Section 10(J), if:
 - (i) The ONLR Charge has been dismissed by ONLR pursuant to Section 10(D)(2);
 - (ii) ONLR has issued a probable cause determination under Section 10(E), there has been a failure of conciliation contemplated by Section 10(F), and ONLR has determined not to initiate a Commission proceeding on the Charge;
 - (iii) ONLR has entered into a settlement agreement under Section 10(G) to which such aggrieved person is not a party; or
 - (iv) Notwithstanding the absence of a probable cause determination or conclusion of conciliation efforts, ONLR certifies it will be unable to complete one or both of these steps within 180 days after the date on which the ONLR Charge was filed.
- (b) After the expiration of 180 days following the date an ONLR Charge was filed and prior to the date on which ONLR commences a Commission proceeding, any person claiming to be aggrieved by the allegations presented in such Charge shall have the right to initiate a proceeding before the Commission irrespective of whether ONLR has issued a notice of right to sue, made a probable cause determination or commenced or concluded conciliation efforts.

3. Content of Notice. A notice of right to sue shall include the following information:

- (a) Authorization to the individual charging party or aggrieved person to initiate a proceeding before the Commission pursuant to and within the time limits prescribed by Section 10(J);
- (b) A summary of the procedures applicable to the institution of such proceeding, or a copy of the Act containing such procedures;
- (c) A copy of the Charge; and

(d) A copy of any written determination of ONLR with respect to such Charge.

4. ONLR Assistance. Authorization to commence Commission proceedings hereunder shall not prevent ONLR from assisting any individual charging party or aggrieved person in connection with Commission proceedings or other efforts to remedy the alleged violations of the Act.

I. ONLR Right to Sue.

1. Individual Charges. ONLR shall have the right to initiate proceedings before the Commission based on the allegations of an Individual Charge with respect to which ONLR has issued a probable cause determination under Section 10(E) and there has been a failure of conciliation contemplated by Section 10(F). ONLR shall have such right notwithstanding that the individual charging party has a concurrent right to sue hereunder which has not been exercised. ONLR's right to sue shall continue until such time as the individual charging party commences a Commission proceeding and, in that case, shall be revived in the event the proceeding is dismissed or concluded for reasons unrelated to the merits. Initiation of Commission proceedings by ONLR shall terminate the right to sue of an individual charging party, subject to revival of such right in the event the proceeding is dismissed or concluded for reasons unrelated to the merits. Nothing herein shall be construed as foreclosing ONLR from exercising its right to intervene in a Commission proceeding under Section 10(L).
2. ONLR Charges. ONLR shall have the right to initiate proceedings before the Commission based on the allegations of an ONLR Charge with respect to which ONLR has issued a probable determination under Section 10(E) and there has been a failure of conciliation contemplated by Section 10(F). ONLR shall have such right notwithstanding that a person claiming to be aggrieved as a result of the allegations in the ONLR Charge has a concurrent right to sue hereunder which has not been exercised. In the event an aggrieved person first initiates a Commission proceeding in an authorized manner, ONLR's right to sue shall only expire as to such person and shall revive in the event the aggrieved person's proceeding is dismissed or concluded for reasons unrelated to the merits. Nothing herein shall be construed as foreclosing ONLR from exercising its right to intervene in a Commission proceeding under Section 10(L).

J. Initiation of Commission Proceedings. Proceedings before the Commission shall be initiated upon the filing of a written complaint by a petitioner with the Commission. Complaints shall satisfy each of the following conditions:

1. The petitioner is authorized to file the Complaint under the terms and conditions prescribed by this Section 10;

2. The underlying Charge was filed within the time limits prescribed in Section 10(B)(6); and
3. The complaint was filed within 360 days following the date on which the underlying Charge was filed.

Upon motion of respondent and a showing that any one or more of the foregoing conditions has not been satisfied, the Commission shall dismiss the complaint; provided, however, that no complaint shall be dismissed under (2) above as to any allegation of a pattern of conduct or practice in violation of the Act to the extent such pattern or practice continued to persist during the time limit prescribed in Section 10(B)(6); and provided further that, in the absence of dismissal or conclusion of Commission proceedings on the merits, nothing herein shall be construed as prohibiting the refiling of a Charge alleging the same or comparable pattern or practice violations of the Act which continued to persist during the time limits prescribed in Section 10(B)(6) for refiling such Charge.

- K. Preliminary Relief. Prior to the initiation of Commission proceedings on a Charge and notwithstanding the failure to satisfy any precondition to such proceedings, either ONLR, an individual charging party or aggrieved person may, upon notice to respondent, petition the Commission for appropriate temporary or preliminary relief in the form of an injunction or other equitable remedy on the ground that prompt action is necessary to carry out the purposes of the Act, including the preservation and protection of rights thereunder. Nothing herein shall be construed as foreclosing a petition which seeks comparable relief subsequent to the commencement of Commission proceedings.
- L. Intervention in Commission Proceedings. Within three business days after the date on which any complaint, or petition pursuant to Section 10(K), is filed with the Commission, other than a complaint or petition filed by ONLR, the Commission shall cause copies thereof to be sent to the ONLR Director and the Attorney General of the Navajo Nation. ONLR shall have an unconditional right to intervene in the Commission proceeding initiated by such complaint or petition upon the timely application by motion accompanied by a pleading setting forth the claims for which intervention is sought.
- M. Confidentiality.
1. Conciliation. In the absence of written consent of the persons concerned, statements or offers of settlement made, documents provided or conduct by participants in conciliation efforts under Section 10(F) shall not be admissible in any Commission or other proceeding relating to the Charge which is the subject of conciliation, to prove liability for or invalidity of the Charge or the amount or nature of relief therefor; provided, however, that nothing herein shall be construed as requiring the exclusion of such evidence merely because it was presented in the course of conciliation if:

- (a) The evidence is otherwise discoverable; or
 - (b) The evidence is offered for another purpose, including without limitation, proving bias or prejudice of a witness, negating a contention of undue delay, or proving an effort to obstruct a criminal investigation or prosecution.
2. Charge, Records and Information. Prior to the institution of Commission proceedings thereon, and in the absence of the written consent of the persons concerned, ONLR shall not disclose as a matter of public information any Charge, response thereto, any statements or other information obtained in the course of its investigation of the Charge, except that nothing herein shall prevent earlier disclosure of such information by ONLR in its discretion:
- (a) To charging parties or their attorneys, respondents or their attorneys, witnesses or other interested persons where the disclosure is deemed by ONLR to be necessary for securing a resolution of the Charge, including appropriate relief therefor;
 - (b) To employees or representatives of the Navajo Nation or employees or representatives of federal, state or local authorities having a governmental interest in the subject matter of the Charge; or
 - (c) To persons for the purpose of publishing data derived from such information in a form which does not reveal the identity of charging parties, aggrieved persons, respondents or persons supplying the information.

Except as otherwise provided herein, any person to whom a permissible disclosure is made hereunder shall be bound to maintain the confidentiality of such information from further disclosure and shall use the information solely for the purpose for which it was disclosed.

3. Privileged Information. Neither ONLR, charging parties, aggrieved persons, respondents, witnesses or persons supplying information in connection with a Charge shall be compelled, either before or after commencement of Commission proceedings, to disclose any information which represents the opinions or conclusions formed by ONLR during the course of its investigation of a Charge, or any information which is protected by the attorney-client privilege, the informer's privilege referred to in Section 10(B)(10), or any other absolute or limited privilege recognized under the laws of the Navajo Nation. To the extent justice requires, the Commission may, balancing the rights of parties and affected persons, prohibit or limit the disclosure of any other information for good cause shown, including a showing that disclosure would impede enforcement of the Act, jeopardize rights guaranteed thereunder, or cause annoyance, embarrassment, oppression or undue burden or expense to parties or affected persons.

- N. Non-retaliation. It shall be unlawful for any employer, labor organization, joint labor-management committee involved in apprenticeship or other matters relating to employment, employment agency or other person to, directly or indirectly, take, or attempt to induce another person to take, any action adversely affecting
- (1) the terms and conditions of any person's employment or opportunities associated with such employment,
 - (2) an applicant's opportunity for employment,
 - (3) the membership of an employee or applicant for employment in a labor organization, or
 - (4) any other right, benefit, privilege or opportunity unrelated to employment, because such person has opposed an employment practice subject to this Act or has made a charge, testified, or assisted or participated in any manner in an investigation, proceeding or hearing under the Act.
- O. Service of Documents. Service of any notice, determination or other document required to be transmitted under this Section 10 shall be accomplished by personal delivery or certified mail, return receipt requested.

Section 11. HEARING

- A. The Commission shall schedule a hearing within sixty (60) days of the filing of a written complaint by a petitioner with the Commission. The hearing shall be held at a location designated by the Commission.
1. Notice: The Commission shall issue a notice of hearing. The time and place of the hearing shall be clearly described in the notice. The notice shall also set forth in clear and simple terms the nature of the alleged violations and shall state (1) the violations may be contested at a hearing before the Commission, and (2) any party may appear by counsel and cross examine adverse witnesses.
 2. Upon application by a party to the Commission, or on the Commissions' own motion, the Commission may issue subpoenas compelling the disclosure by any person evidence relevant to the complaint, including a subpoena ordering, under oath as may be appropriate:
 - (a) The attendance and testimony of witnesses;
 - (b) Responses to written interrogatories;
 - (c) The production of evidence; and
 - (d) Access to evidence for the purpose of examination and copying.
 3. The Commission is hereby authorized to administer oaths and compel attendance of any person at a hearing and to compel production of any documents.

4. In the event a party does not make an appearance on the day set for hearing or fails to comply with the rules of procedure set forth by the Commission for the conduct of hearings, the Commission is hereby authorized to enter a default determination against the non-appearing and/or noncomplying party.
- B. Burden of Proof: In any compliance review, complaint proceeding, investigation, or hearing, the burden of proof shall be upon the respondent to show compliance with the provisions of this Act by clear and convincing evidence.
- C. Hearing: The Commission shall conduct the hearing in a fair and orderly manner and extend to all parties the right to be heard.
 1. The Commission shall not be bound by any formal rules of evidence.
 2. The respondent shall have the opportunity to answer the complaint and the parties shall have the right to legal counsel, present witnesses, and cross-examine adverse witnesses.
 3. The Commission shall issue its decision by a majority vote of a quorum present and shall be signed by the Chairman of the Commission.
 4. Copies of the decision shall be sent to all parties of record in the proceeding by certified mail, return receipt.
 5. The proceeding shall be recorded. Any party may request a transcript of the proceeding at their own expense.
 6. The decision of the Commission shall be final with a right of appeal only on questions of law to the Navajo Nation Supreme Court.

Section 12. REMEDIES AND SANCTIONS

- A. If, following notice and hearing, the Commission finds that respondent has violated the Act, the Commission shall:
 1. Issue one or more remedial orders, including without limitation, directed hiring, reinstatement, displacement of non-Navajo employees, backpay, frontpay, injunctive relief, mandated corrective action to cure the violation within a reasonable period of time, and/or, upon a finding of intentional violation, imposition of civil fines; provided that liability for backpay or other forms of compensatory damages shall not accrue from a date more than two years prior to the date of filing of the Charge which is the basis for the complaint.
 2. In the case of an individual suit initiated pursuant to Section 10(H) award costs and attorneys' fees if the respondent's position was not substantially justified.

3. Refer matters involving respondent contracts, agreements, leases and permits to the Navajo Nation Attorney General for appropriate action.
- B. In the absence of a showing of good cause thereof, if any party to a proceeding under this Act fails to comply with a subpoena or order issued by the Commission, the Commission may impose such sanctions as are just, including without limitation any one or more of the following:
- (1) In the case of noncompliance with a subpoena of documents or witnesses:
 - (a) An order that the matters regarding which the subpoena was issued or any other designated facts shall be deemed established for the purposes of the proceeding and in accordance with the claim of the party obtaining the order;
 - (b) An order refusing to allow the disobedient party to support or oppose designated claims or defenses, or prohibiting that party from introducing designated matters in evidence;
 - (c) An order striking pleadings or parts thereof, or staying further proceedings until the subpoena is obeyed, or dismissing the action or proceeding or any part thereof, or rendering a judgment by default against the disobedient party.
 - (2) In the case of noncompliance by a party or nonparty with a Commission subpoena of documents or witnesses or with any other order of the Commission:
 - (a) An order holding the disobedient person in contempt of the Commission and imposing appropriate sanctions therefor, including a civil fine;
 - (b) An order directing the disobedient person to pay the reasonable costs and/or attorney's fees caused by the noncompliance.
- C. The person or party in whose favor a Commission's decision providing for remedial action is entered shall have the right to seek legal and/or equitable relief in the District Courts of the Navajo Nation to enforce the remedial action; provided that the Commission itself shall have the right to seek legal and/or equitable relief in the District Courts of the Navajo Nation to enforce civil fines or sanctions imposed by the Commission against a person or party. In both instances the Attorney General of the Navajo Nation shall have an unconditional right to intervene on behalf of the Navajo Nation. Any attempted enforcement of a Commission order or decision directing payment of money by the Navajo Nation or any of its governmental entities shall, with respect to the extent of any liability be governed by the Navajo Sovereign Immunity Act, 1 N.T.C. §§351 et seq., as amended.

Section 13. APPEAL AND STAY OF EXECUTION

- A. Any party may appeal a decision of the Commission to the Navajo Nation Supreme Court by lodging a written notice of appeal, in the form prescribed by the Navajo Rules of Civil Appellate Procedure and within ten (10) days after receipt of the Commission's decision.
- B. In the absence of a stipulation by the parties approved by the Commission, a stay of execution of the decision from which the appeal is taken shall only be granted upon written application of the appellant to the Commission and an opportunity for response by appellee. The application for a stay shall be filed within the period prescribed for appeal in Subsection (A) hereof. No stay shall be issued unless the appellant presents a clear and convincing showing that each of the following requirements has been satisfied:
1. Appellant is likely to prevail on the merits of the appeal;
 2. Appellant will be irreparably harmed in the absence of a stay;
 3. Appellee and interested persons will not be substantially harmed by a stay;
 4. The public interest will be served by a stay; and
 5. An appeal bond or other security, in the amount and upon the terms prescribed by Subsection (C) below, has been filed with and approved by the Commission; provided that no appeal bond shall be required of ONLR, the Navajo Nation or any governmental agency or enterprise of the Navajo Nation.
- C. The appeal bond shall be issued by a duly authorized and responsible surety which shall obligate itself to pay to appellee, or any other person in whose favor an award is made by the Commission decision, the amounts specified or described in the bond upon conclusion of the appeal and failure of appellant, following written demand by appellee, to satisfy the foregoing obligations. The amount or nature of liability assumed by the surety shall be specified in the bond and shall include:
1. The total amount of all monetary awards made in the Commission decision, together with such interest thereon as may be prescribed in the Commission's decision;
 2. Costs of appeal and attorneys' fees incurred by appellee in defending the appeal and which may be awarded to appellee by the Navajo Nation Supreme Court;

3. Damages sustained by appellee or other recipients of a Commission award for delay in satisfaction of the Commission decision caused by the appeal; and
4. Such other amount or liability reasonably required to be secured to protect the interests of the appellee or other award recipients.

The bond shall provide that the surety submits to the jurisdiction of the Commission and the Courts of the Navajo Nation, and irrevocably appoints the Commission as the surety's agent upon whom any papers affecting the surety's liability on the bond may be served. The surety's liability may be enforced on motion of the appellee filed with the Commission, with copies thereof served on the surety and appellant.

In lieu of posting an appeal bond, appellant may, with the approval of the Commission, post a cash bond and undertaking in the amount and upon the terms which are required above with respect to an appeal bond.

No appeal bond or cash bond and undertaking, nor the liabilities of the surety or appellant thereunder, shall be exonerated or released until all amounts and liabilities prescribed therein have been fully paid and satisfied.

- D. Within three business days following the filing with the Navajo Nation Supreme Court of any appeal from a Commission proceeding, the Clerk of such Court shall, in all cases other than those in which ONLR is not either the appellant or appellee, cause copies of the notice of appeal and all other documents filed in connection therewith to be sent to the ONLR Director and the Attorney General of the Navajo Nation. ONLR shall have an unconditional right to intervene and participate as amicus in the appeal proceedings upon timely application therefor by motion lodged with the Navajo Nation Supreme Court. ONLR's right of participation shall be coextensive with that of the parties to the appeal, including the rights to file opening, answering and reply briefs, and the right to present oral argument to the Court.

Section 14. NON-NAVAJO SPOUSES

- A. When a non-Navajo is legally married to a Navajo, he or she shall be entitled to preference in employment under the Act. Proof of marriage by a valid marriage certificate shall be required. In addition such non-Navajo spouse shall be required to have resided within the territorial jurisdiction of the Navajo Nation for a continuous one-year period immediately preceding the application for Navajo preference consideration.

- B. Upon meeting the above requirements, such consideration shall be limited to preference in employment where the spouse would normally be in a pool of non-Navajo workers. In this instance, Navajo preference would place the non-Navajo spouse in the applicant pool of Navajos for consideration. However, preference priority shall still be given to all Navajo applicants who meet the necessary job qualifications within that pool.
- C. Non-Navajo spouses having a right to secondary preference under this Section shall also have and enjoy all other employment rights granted to Navajos under the Act, it being understood that Navajos retain a priority right with respect to provisions of the Act concerning preferential treatment in employment opportunities.

Section 15. LIE-DETECTOR TEST

- A. No person, shall request or require any employee or prospective employee to submit to, or take a polygraph examination as a condition of obtaining employment or of continuing employment or discharge or discipline in any manner an employee for failing, refusing, or declining to submit to or take a polygraph examination.
- B. For purposes of this section, "polygraph" means any mechanical or electrical instrument or device of any type used or allegedly used to examine, test, or question individuals for the purpose of determining truthfulness. This provision shall not apply to federal or state government employees.

Section 16. RULES AND REGULATIONS

Human Services Committee of the Navajo Nation Council is hereby delegated the authority to promulgate rules and regulations necessary for the enforcement and implementation of the provisions of this Act. The Commission is hereby delegated the authority to adopt and implement, on its own initiative and without any approval, rules of procedure and practice governing the conduct of proceedings under Section 11 of the Act; provided only that such rules are consistent with the provisions of the Act.

Section 17. ALL PRIOR INCONSISTENT LAW IS REPEALED

All prior Tribal laws, rules, regulations, and provisions of the Navajo Tribal Code previously adopted which are inconsistent with this Act are hereby repealed.

Section 18. EFFECTIVE DATE AND AMENDMENT OF THE ACT

- A. The effective date of this Act shall be 60 days after the passage of the Act by the Navajo Nation Council and shall remain in effect until amended or repealed by the Navajo Nation Council.
- B. Any amendment or repeal of the Act shall only be effective upon approval of the Navajo Nation Council, and shall not be valid if it has the effect of amending,

modifying, limiting, expanding or waiving the Act for the benefit or to the detriment of a particular person.

- C. Any amendment to the Act, unless the amendment expressly states otherwise, shall be effective 60 days after the passage thereof by the Navajo Nation Council.
- D. The time limits prescribed in Section 10 relating to filing a Charge and subsequent proceedings thereon were added by amendment adopted by the Navajo Nation Council subsequent to the effective date of the original Act. Notwithstanding an actual accrual date for any alleged violation of the Act which is prior to the effective date of the amendment which added the time limits in Section 10 hereof, such alleged violation shall be deemed to accrue on the effective date of the foregoing amendment for purposes of all time limits set forth in Section 10.

Section 19. SEVERABILITY OF THE ACT

If any provision of this Act or the application thereof to any person, association, entity or circumstances is held invalid, such invalidity shall not affect the remaining provisions or applications thereof.

NAVAJO PREFERENCE IN EMPLOYMENT ACT

NPEA ORIENTATION
Check List

<u>INITIAL</u>	<u>EXHIBIT</u>	<u>DESCRIPTION</u>
_____	(A)	<u>Navajo Preference in Employment Act</u> (information) - NPEA Requirement Letter - <u>Navajo Preference in Employment Act</u> Poster
_____	(B)	Office of Navajo Labor Relations (information) - ONLR Office w/ Staffs
_____	(C)	Start New Workers Out Right
_____	(D)	Manpower Projection Report
_____	(E)	List of All Subcontractors
_____	(F)	Job Description – Non-Discriminatory
_____	(G)	Newspaper and Radio Station Advertisement - Navajo Preference Statement - Job Services
_____	(H)	Affirmative Action Regulation
_____	(I)	Notification for use of non-Navajo - Employer Interview Report - Justification
_____	(J)	Conditions for Employment Expressed to Applicant – Orientation on Employer Policies
_____	(K)	Written Notification for any Employee Action
_____	(L)	Weekly Manpower Reports
_____	(M)	Weekly Certified Payroll Reports
_____	(N)	Contractors/Subcontractor's Reports - Construction Progress Report (bi-weekly) - Project Completion Report
_____	(O)	Wage Rates Decision No.: _____

Company Name (**please print**)

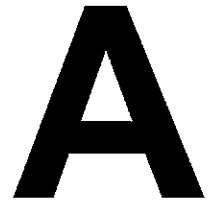
Company Representative – Name and Title (**please print**)

Company Representative Signature

Project Name and Location

OFFICE OF NAVAJO LABOR RELATIONS

NAVAJO PREFERENCE IN EMPLOYMENT ACT



PACKET INCLUDES:

Forms and Information

1. Employer Interviews Report.
2. "Start New Workers Out Right" sheet.
3. Navajo Preference in Employment Act Poster – **Post at Job Site.**
4. Contractor/Subcontractor's Manpower Projection Report.
5. Weekly Manpower Reports.
6. Weekly Certified Payroll Reports.
7. Project Completion Report Form.

The ONLR strongly recommends that all contractors use apprentices or trainees as well as female applicants on the project. Interested parties should call the ONLR for more information. The ONLR strongly recommends that contractors make every effort to recruit and hire Navajos (see NPEA, Section 4.A.(1.) and Section 4.B.(6.)).

Contractors found in non-compliance of the NPEA shall be notified by the ONLR. Attempts will be made to resolve disputes or discrepancies informally. If no resolution can be reached, the ONLR will take whatever administrative action(s) or remedies necessary. Should this occur, the contractor will be notified in writing. If no response is received by the specified date, the ONLR will proceed with other actions including filing an ONLR Charge.

Contractors are responsible for hiring Navajo workers. All contractors are required to advertise in the area using a radio station and newspaper including the Navajo Preference Statement in the advertisement. Contractors will advertise vacancies 7–10 days.

1. Contractor(s) or subcontractor(s) shall provide a detailed job summary or description, along with wage rates or salary, for all or any position considered "specialized" by the employer.
2. The contractor and its subcontractor(s) shall retain the right to reject any job applicants; however, if the contractor or its subcontractor(s) is unable to recruit or hire Navajo, the contractor shall have:
 - (a) the burden to justify the rejection of every Navajo applicant in each employee craft or category in which the contractor or its subcontractor(s) was unable to meet its requirements; and
 - (b) the burden of substantiating the criteria used in hiring such employee craft on category as relevant to the job being performed.

Navajo Occupational Safety and Health Administration (NOSHA) monitor all construction activities on the Navajo Nation. Any questions or assistance regarding safety issues, NOSHA can be contacted at (928) 871-6824.

At least **two weeks prior to completion of project**, the contractor shall complete the Project Completion Report form and submit to the ONLR (the form is provided in this packet).

PLEASE CALL IF THERE ARE ANY QUESTIONS OR CONCERNS. THANK YOU.

DATE

CHRONO

Name; Title
Company Name
Mailing Address
City, State, Zip Code

***RE: Project Name
NPEA Requirement Letter***

Dear Mr./Ms.:

Thank-you for contacting our office regarding your upcoming project.

Enclosed is the NPEA Requirement Letter along with the NPEA Orientation Checklist.

If you have any other questions, please call our office at (928) 871-6800.

Sincerely,

Name, Labor Compliance Officer
Office of Navajo Labor Relations
DIVISION OF HUMAN RESOURCES

*cc: Window Rock ONLR
Chrono File*

ATTACHMENT

Date

CHRONO

Name

Company

Address

City, State, Zip Code

RE: NPEA REQUIREMENT LETTER

Dear Mr./Ms.:

The Office of Navajo Labor Relations ("ONLR") monitors construction projects on the Navajo Nation to ensure all contractors and/or subcontractors comply with the Navajo Preference in Employment Act ("NPEA"). The requirements are as follows:

- A. Give preference in employment to enrolled members of the Navajo Nation:
 - 1. Advertise all job vacancies in at least one newspaper and radio station serving the Navajo Nation. Note: All job announcements and advertisements shall specify a Navajo employment preference statement.
- B. Establish written necessary qualifications/job descriptions for each employment position in their work force, a copy of which shall be provided to applicants or candidates at the time they express an interest in such position.
- C. Use non-discriminatory job qualifications and selection criteria in employment. Any Navajo applicant or candidate who demonstrates the necessary qualifications for an employment position:
 - 1. Is to be selected by the employer in the case of hiring, promotion, transfer, upgrading, recall and other employment opportunities with respect to such position;
 - 2. To be retained by the employer in the case of the reduction-in-force affecting such class of positions until all non-Navajos employed in that class of position are laid off; and

3. Among a pool of applicants or candidates who are solely Navajos, the Navajo with the best qualifications is to be selected or retained.
- D. Provide a fringe benefit plan that does not discriminate against Navajos in terms of coverage due to Navajo cultural or religious traditions or beliefs.
- E. File with the ONLR a written Navajo Affirmative Action Plan (Program). An employer-sponsored cross-cultural program shall be an essential part of the affirmative action plans required by the NPEA. Such program shall primarily focus on the education of non-Navajo employees, including management and supervisory personnel, regarding the cultural and religious traditions or beliefs of Navajos, and their relationships to the development of employment policies that accommodate such traditions and beliefs.
- F. Maintain a safe and clean working environment free of prejudice, intimidation, and harassment.
- G. Not penalize, discipline, discharge, nor take any adverse action against any employee without a written notice showing just cause. This notice shall be given to the employee at the time of the adverse action.
- H. Post in a conspicuous place on its premises, a Navajo preference policy notice.
- I. For each Contractor/Subcontractor to be utilized on the project, the ONLR will require the following information:
 1. Contractor/Subcontractor Manpower Projection Report. A list of all classifications and number of workers that will be required. This shall be submitted two weeks before start of work.
 2. Job Description for each classification, listing experience, tool requirements, etc.
 3. Name of Individual who will conduct the interview and hiring.
 4. Employer Interview Report shall be submitted with the first certified payroll report.
 5. Weekly Manpower Report shall be submitted with each week's certified payroll report.

NPEA Requirement Letter
Page Three

6. Certified Payroll Report shall be submitted with each week's manpower report.
7. Navajo Affirmative Action Program shall be submitted two weeks before start of work.
8. Location of office(s) and telephone number(s) of contractors/subcontractors.
9. Name of Individual designated as contact person at the job site.
10. List of Key Personnel the contractor anticipates on bringing to the job site. These positions are usually the project superintendent and/or an individual with signatory authority. The contractors and/or subcontractors will be required to justify other positions not normally considered "key" personnel.
11. Job Summary and Duration of the Project.

The ONLR will provide an overview of NPEA requirements and in-depth orientation for all contractors. If you have any questions, call our office at (928) 871-6800.

Sincerely,

Name, Labor Compliance Officer
Office of Navajo Labor Relations
DIVISION OF HUMAN RESOURCES

cc: Window Rock ONLR
Project/Chrono File

NOTICE OF THE NAVAJO PREFERENCE IN EMPLOYMENT ACT

Employers must post this notice in a conspicuous place on its premises where notices to employees and job applicants are customarily posted.

Title 15, N.T.C., Chapter 7 requires that all employers doing business within the boundaries of the Navajo Nation or engaged in any contracts with the Navajo Nation, shall give preference in employment to enrolled members of the Navajo Nation, and submit an affirmative action program.

Navajo Preference in Employment Act ("NPEA") applies to:

o Hiring	o Termination	o Transfers	o Recalls
o Promotion	o Reduction-in-force	o Training	o Recruitment
-

NPEA requires employers doing business within the territorial jurisdiction of the Navajo Nation to:

- Provide applicant with written job descriptions.
- Provide training to enhance the skills of Navajo Employees.
- Not discipline or discharge Navajo employees without just cause and written notification.
- Provide a work place free of prejudice, intimidation and harassment.
- Pay established Prevailing Wages for construction work.
- Provide Navajo Affirmative Action Program to employ Navajos in all job classifications including supervisory and management positions.

The ONLR requires employers to receive a NPEA orientation prior to commencing work on the Navajo Nation.

If you think your rights have been violated or see other possible violations of the Navajo Preference, call or write to the Office of Navajo Labor Relations for more information.

OFFICE OF NAVAJO LABOR RELATIONS

Post Office Drawer 1943
Window Rock, Arizona 86515
Phone: (928) 871-6800/6801
Facsimile: (928) 871-7088

Post Office Box 1704
Shiprock, New Mexico 87420
Phone: (505) 368-1142
Facsimile: (505) 368-1145



Post Office Box 2660
Chinle, Arizona 86503
Phone: (928) 674-2214
Facsimile: (928) 674-2216

Post Office Box 733
Tuba City, Arizona 86045
Phone: (928) 283-3100
Facsimile: (928) 283-3107

Post Office Box 550
Kayenta, Arizona 86033
Phone: (928) 697-5645
Facsimile: (928) 697-5647

NOTE: Copies of the Navajo Preference in Employment Act are available at any of the above

OFFICE OF NAVAJO LABOR RELATIONS



The purpose of the Office of Navajo Labor Relations is as follows:

- A. To monitor and enforce the NAVAJO PREFERENCE IN EMPLOYMENT ACT (NPEA), Title 15, NNC, Chapter 7.
- B. To implement and carry out the labor policies of the Navajo Nation as established by the Navajo Nation Council.
- C. To act as administrative agency for matter relating to employment preference in hiring, recruitment, promotion, lay-off, termination, transfer and other areas of employment.
- D. To gather information from employers, employees, labor organization and governmental agencies relating to employment, compensation and working conditions.
- E. To recommend and propose policies, rules, regulations, specific Navajo Preference Plans to Human Services Committee of the Navajo Nation Council.

Window Rock/Fort Defiance, AZ

Post Office Drawer 1943
Window Rock, Arizona 86515
Telephone: (928) 871-6800/6801
Fax: (928) 871-7088

Shiprock, NM

Post Office Box 1704
Shiprock, New Mexico 87420
Telephone: (505) 368-1142
Fax: (505) 368-1145

Kayenta, AZ

Post Office Box 550
Kayenta, Arizona 86033
Telephone: (928) 697-5645
Fax: (928) 697-5647

Chinle, AZ

Post Office Box 2660
Chinle, Arizona 86503
Telephone: (928) 645-2214
Fax: (928) 645-2216

Tuba City, AZ

Post Office Box 733
Tuba City, Arizona 86045
Telephone: (928) 283-3100
Fax: (928) 283-3107

Office of Navajo Labor Relations

ADMINISTRATION OFFICE:

Post Office Drawer 1943
Window Rock, Arizona 86515
Telephone: (928) 871-6800
Fax: (928) 871-7088

PHYSICAL ADDRESS:

W008-222 Doublewide Trailer
Morgan Blvd.
Window Rock, Arizona 86515

STAFF:

Reynold R. Lee , <i>Director</i> ; reynoldrlee@navajo.org	(928) 871-6800/6801
Carletta Benally , <i>Administrative Assistant</i>	(928) 871-6801
Eugene Kirk , <i>Labor Compliance Officer</i> ; eugenekirk@navajo.org	(928) 871-6800/6801
Gililand Damon , <i>Labor Compliance Officer</i> ; gililanddamon@navajo.org	(928) 871-6800/6801
Michael Armijo , <i>Construction Employment Analyst</i> ; mikearmijo@yahoo.com	(928) 871-6800/6801
Valara James , <i>Office Assistant</i> ; valara_lola@yahoo.com	(928) 871-6800

Shiprock Sub-Office:

John P. Wilson, *Labor Compliance Officer*
Georgina Howe, *Office Assistant*
Post Office Box 1704
Shiprock, New Mexico 87420
Phone: (505) 368-1143
Fax: (505) 368-1145

Physical Location:

Northwest of Tse Bit'ai Shopping Center
First Trailer East of Hogan.

Kayenta Sub-Office:

Delight Butler, *Labor Compliance Officer*
Tanisha Nez, *Office Assistant*
Post Office Box 550
Kayenta, Arizona 86033
Phone: (928) 697-5645
Fax: (928) 697-5647

Physical Location:

Kayenta Chapter House

Chinle Sub-Office:

Harrison Bia, *Labor Compliance Officer*
Norma Horton, *Office Assistant*
Post Office Box 2660
Chinle, Arizona 86503
Phone: (928) 674-2214
Fax: (928) 674-2216

Physical Location:

Navajo Nation Government Offices
West of Chinle Chapter House.

Tuba City Sub-Office:

Vacant, *Labor Compliance Officer*
Mary L. Bracker, *Office Assistant*
Post Office Box 733
Tuba City, Arizona 86045
Phone: (928) 283-3100
Fax: (928) 283-3107

Physical Location:

Located on East Side of TCCC
Right next to Coalmine Sub-office.

START NEW WORKERS OUT RIGHT



EXECUTIVE SUMMARY

The safer construction top-management, project-management and foreman give more orientation to their workers new to the job than less safe managers. Research proves that attention to new workers is a key characteristic of safe, productive management. This information shows:

WHY orientating workers increases profits.

HOW to develop a new workers program tailored to your company.

WHY NEW WORKERS PROGRAM INCREASES PROFITS

The facts show that construction companies which are putting their workers right to work without any orientation are spending needless dollars for accident costs, lost time, damaged materials and machinery, etc. These new workers are the ones who are having the accidents, accidents, which cost thousands in workers compensation costs.

The common construction practice of putting new workers directly on the job with no orientation is creating a very high accident rate for workers in their first few days and weeks on the job.

For most construction companies, it is their new workers – no matter how experienced they are – who are having the accidents. And these accidents are costing company profits.

Accidents to new workers can be substantially reduced by an orientation for employees new to the job. The investment of time to start a new worker out right will be repaid many times over when that worker works safely and does not have an accident.

Every accident creates many costs for your company. Insurance costs are one of the major costs. A recent study by Prof. Raymond Levitt of Stanford University, of 23 construction firms engaged in highway, heavy building, industrial and specialty trade construction found that companies with formal safety orientation programs for all new hires had an average insurance modification rates, 25% lower than their competitors who did not have any such programs. These reduced costs give a distinct advantage in the bidding process and allow for greater profits. Beyond these obvious costs yet equally important, is the fact that accidents have a very adverse impact on project morale and company reputation.

Orientation will pay off by reducing accidents. Few accidents mean more profits.

HOW TO DEVELOP YOUR COMPANY'S ORIENTATION PROGRAM

A successful company orientation program includes all new workers regardless of the number of years worked in the industry. It covers every worker new to the company, new to a particular job site or only new to a crew. This means that your new worker program needs three parts – each important.

1. Top management communication to new worker of company, commitments on safety, health, and expectations for each employee.
2. Project management orientation, including the special requirements for each project.
3. Foreman orientation to job and crew.

The worker who is new to the company is also new to the project and to the crew. Such people need the most orientation. They are unfamiliar with company policies and procedures. They are unfamiliar with job site conditions. They are unfamiliar with superintendents, foremen and fellow employees. They feel that they must prove themselves to the company, the superintendent, the foreman, and their fellow workers and to themselves.

Safety orientation, however, cannot stop with them. All employees, even those with company seniority, should receive safety orientation every time they are transferred to a new job site or crew. The particular organization and layout of the work and therefore the particular safety hazards at the job site are as unfamiliar to them as to a brand new employee. On many sites, even when there is no turnover in crews on the job, conditions change so much during the course of the job that all site employees need constant update orientation. Very productive safe superintendents stop their project workers for briefing sessions every time the work changes.

TOP MANAGEMENT'S ROLE IN ORIENTATION

Your company needs to develop two programs:

1. A New Worker Orientation-to-the-Company Program.
2. A Management Training System to Insure Project and Crew Level Orientation.

ESSENTIALS OF A COMPANY ORIENTATION PROGRAM

Your company program must be developed by upper management to suit the company. After a program is implemented, it needs to be reviewed and updated to guarantee that it is functioning as designed. The type of work and number of employees will govern the extent and formality of each company's program.

NEW WORKER ACTION STEPS:

Everyone new to your crew (no matter how experienced) is a new worker

1. Ask about last job.
2. Describe the new job.
3. Show worker around site; point out hazards.
4. Introduce worker to others
5. Describe your rules.
6. Give worker a test run on tools and equipment.
7. Keep an eye on the new worker during the first few days.
8. Check back to see how the worker is coming along.

Foremen and superintendents will be more willing to spend the necessary time on a new worker orientation if they are held accountable for accidents as part of their supervisory responsibilities.

START NEW WORKERS OUT RIGHT is only the first part of the **SAFER** program. The greatest reduction in accidents and the greatest increase in savings will result from combining orientation with the other four basic points of the safer program.

1. Account for all accidents – so foremen and supervisors know that safety is an important part of their job performance.
2. Foremen and Managers plan safety into each job so the safety is an integral part of job operations.
3. Every week a toolbox/tailgate meeting is held so that what the new worker hears and learns in orientation is constantly backed up and emphasized.
4. Reinforce safe performance so that the new workers and all the others realize that foremen, supervisors, and the companies back their interest in safety with recognition of those who do a good job on safety.

Your company's program should also include:

1. An introductory letter to each employee from the company president welcoming the new worker, emphasizing the importance of safety to the company and to the president, and describing the worker's responsibility to help maintain a safe working environment.
2. A Company Safety Practices handbook issued to each new worker, which spells out the particular rules and requirements of your company.

In addition, there are a number of additional methods which construction companies have used successfully such as audio-visual presentations (films, slides, videotapes) to be viewed by each worker covering company safety policy, new employees checklists which are read by the employee before the worker begins work and which require the employee's signature of the compliance on their employment application, short booklets describing company project information, and company procedures including workweek, absentee and pay procedures, rules on safety and other basic company policies.

THE COMPANY PLANS FOR JOB SUPERINTENDENT AND FOREMAN ORIENTATION

While a company orientation program developed from the elements just described is effective in reducing accidents and accident costs, even more effective is company program combined with a strong program on the project and crew level. The most effective orientation programs depend upon the key personnel directly in contact with the new worker. The superintendent and foreman are committed to orientating the new hire.

The job superintendent has two responsibilities for orientation. First, he must communicate a project-wide commitment to safety and a continuing awareness and involvement in safety performances as well as productivity and quality. Secondly, he must be certain that the foremen understand the importance of orientation and are trained to carry it out properly. The superintendent should also take an active interest in the new worker, ensuring that the necessary safety information has been provided and that the new worker is adjusting well to the job.

The foreman is typically the most closely involved with the new worker and thus is a critical person in the orientation process. The company should expect the foreman to spend sufficient time with the new worker to start the new worker out right. Foremen who save their company money and their crewmembers' personal and economic loss by orienting their new crewmembers have well-developed methods for starting a new worker. These methods can be taught successfully to other foremen. Stanford Construction Safety Management Safety and Health Project have developed a foreman pocket card listing the new worker action steps. This card reminds the foremen what to do.

IMPORTANT NOTICE: Contractor to
Complete and return this form to ONLR
PRIOR to start of work.

D

SAMPLE
(Use Company Letterhead)

CONTRACTOR/SUBCONTRACTOR'S MANPOWER PROJECTION REPORT

CONTRACTOR: _____ DATE: _____

PROJECT: _____ LOCATION: _____

ANTICIPATED START DATE: _____ END DATE: _____

<u>CRAFT</u>	<u>NUMBER REQUIRED</u>	<u>REMARKS</u>	<u>CRAFT</u>	<u>NUMBER REQUIRED</u>	<u>REMARKS</u>
Carpenter	_____	_____	Cement Finisher	_____	_____
Electrician	_____	_____	Boilermaker	_____	_____
Laborer	_____	_____	Bricklayer	_____	_____
Drywall Installer/ Taper	_____	_____	Equipment Operator	_____	_____
Pipefitter	_____	_____	Truck Driver	_____	_____
Plumber	_____	_____	Ironworker	_____	_____
Roofer	_____	_____	Painter	_____	_____
Insulator	_____	_____	Soft Tile Setter	_____	_____
Millwright	_____	_____	Sheet Metal Worker	_____	_____
_____	_____	_____	_____	_____	_____

(Note: any special qualifications, i.e., 125-Ton Crane Operator, Testing Requirements, Journeyman or Apprenticeship/Trainee, etc.):

Important Notice: All Contractors
having subcontractors shall submit a
sub-contractor listing, which shall
include the name and address of each
subcontractor, telephone number and
contact person.

Name: _____
(Authorized Company Representative & Title) **PRINTED**

Signature: _____

Original to:
Office of Navajo Labor Relations
ATTN: John P. Wilson, LCO
Post Office Drawer 1704
Shiprock, New Mexico 87420

Copy to:
Office of Navajo Labor Relations
ATTN: Michael Armijo, CEA
Post Office Drawer 1943
Window Rock, Arizona 86515

SUBCONTRACTORS LISTING

E

Information Required:

1. Name and addresses of all subcontractors. Include telephone numbers.
2. Name and title of company representative.
3. Brief description of what type of work the subcontractor will perform.
4. A Manpower Projection is required prior to start of work. Projected start and end date should be noted.

NOTE: A pre-construction conference is required **BEFORE** any work is started. It is the subcontractor's responsibility to contact ONLR to arrange for a separate meeting before any work begins.

JOB DESCRIPTION

F

1. Brief description or narrative picture of the job that highlights its general characteristics. The job summary should provide enough information stating the major functions and activities.
2. Avoid using ambiguous words, or those that leave themselves open to a number of possible interpretations.
3. Avoid using technical words unless you are sure they will be easily understood. If you must use them anyway, explain.
4. All employers (contractors and subcontractors) shall use non-discriminatory job qualification and selection criteria in employment.
5. Job descriptions shall contain those job-related qualifications which are essential to the performance of the basic responsibilities designated for each employment position, including any essential qualification concerning education, training and job-related experience, but excluding any qualifications relating to ability or aptitude to perform responsibilities in other employment positions. Demonstrated ability to perform essential and basic responsibilities shall be deemed satisfaction of "necessary qualifications".

NOTE: A copy of a job description shall be provided to the applicants or candidates at the time they express an interest in such position (15 NNC 604.D.).

RADIO STATIONS



KNDN RADIO STATION

1515 West Main Street
Farmington, New Mexico 87401
Telephone: (505) 325-1996
Fax: (505) 327-2019

KTNN RADIO STATION

Post Office Box 2569
Window Rock, Arizona 86515
Telephone: (928) 871-2582
Fax: (928) 871-3479

NEWSPAPER

DAILY TIMES

Post Office Box 450
Farmington, New Mexico 87499
Telephone: (505) 325-4545
Fax: (505) 564-4567

NAVAJO TIMES

Post Office Box 310
Window Rock, Arizona 86515
Telephone: (928) 871-6641
Fax: (928) 871-6409

GALLUP INDEPENDENT

Post Office Box 1210
Gallup, New Mexico 87305
Telephone: (505) 863-6811
Fax: (505) 722-5750

NAVAJO/HOPI OBSERVER

2224 East Cedar Avenue
Flagstaff, Arizona 86004
Telephone: (928) 226-9696
Fax: (928) 226-1115

NAVAJO PREFERENCE STATEMENT

NPEA Section 4(B). Specific Requirements for Navajo Preference

1. "All employers shall include and specify a Navajo employment preference policy statement in all job announcements and advertisements and employer policies covered by this Act".

JOB SERVICE

New Mexico Dept. of Labor

2020 E. Aztec
Gallup, New Mexico 87301
(505) 863-3884/Fax: (505) 863-3493

AZ Workforce Connection

Post Office Box 3565
Window Rock, Arizona 86515
(928) 871-4131/Fax: (928) 871-4130

New Mexico Dept. of Labor

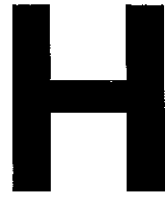
600 W. Arrington
Farmington, New Mexico 87401
(505) 327-6126/Fax: (505) 326-6006

Dept. of Economic Security Adm.

Post Office Box 130
Tuba City, Arizona 86045
(928) 283-5201/Fax: (928) 283-4435

NPEA Section 4(B)(5): "All employers shall utilize Navajo Nation employment sources and job services for employee recruitment and referrals; provided, however, that employers do not have the foregoing obligations in the event a Navajo is selected for the employment who is a current employee of the employer."

AFFIRMATIVE ACTION REGULATIONS



I. INTRODUCTION

- A. Pursuant to the *Navajo Preference in Employment Act* ("NPEA"), "all employers doing business within the territorial jurisdiction of the Navajo Nation, or engaged in any contract with the Navajo Nation shall give preference in employment to Navajos. Preference in employment shall include specific Navajo affirmative action plans and timetables for all phases of employment to achieve the tribal goals of employing Navajos in all job classifications including supervisory and management positions."

II. POLICY STATEMENT

- A. The employer's policy statement shall indicate the Owner/Chief Executive Officer's position on the subject matters; assign overall responsibility, reporting and monitoring procedure. Specific items to be mentioned, should include, but are not limited to:
1. Providing employment and training opportunities for Navajo workers, including supervisory and management positions.
 2. Employment decisions and personnel actions shall be based on the principles, intent and purposes of the *Navajo Preference in Employment Act* ("NPEA").

III. APPOINTMENT OF A MANAGEMENT OFFICIAL TO IMPLEMENT NAVAJO AFFIRMATIVE ACTION PROGRAM

- A. A management official who has decision-making authority shall be appointed to implement and monitor the Affirmative Action Plan Program. His/Her responsibility will include, but are not limited to the following:
1. Developing Navajo Affirmative Action Plan Program, policy statement, goals and objectives, and internal and external communication procedures.
 2. Identifying and/or assisting in the identification of problem areas in Section V.D.
 3. Determining and implementing corrective solution(s) identified under Section V.D. with the assistance of line supervisors.
 4. Designing and implementing audit and reporting systems that will:
 - a. Measure effectiveness of the employer's program.

- b. Indicate and determine the need for remedial action(s).
 - c. Determine the degree to which the employer's goal and objectives have been accomplished.
5. Serve as liaison between the employer and the Office of Navajo Labor Relations ("ONLR").

IV. ESTABLISHMENT OF GOALS AND TIMELINES

- A. The goals and timelines developed by the employers should be attainable based on analysis of the following:
 - 1. All positions/classifications currently held by non-Navajos.
 - 2. Qualifications required by the positions/classifications.
 - 3. Timelines for Navajo worker(s) to obtain qualifications for positions/classification(s) held by non-Navajos, and
 - 4. Identification of resources internally and externally to implement the plan.

V. WORKFORCE ANALYSIS

- A. The affirmative action plan should contain a workforce analysis, defined as a listing of each job title as it appears in applicable collective bargaining agreements or payroll records ranked from the lowest paid to the highest paid within each department or organizational unit including mid-management and top-management. Lines of progression for each unit or department must be identified through which employees could move upward. Where there are no formal progression lines or lines of usual promotional sequences, job titles should be listed in order of wages/salary ranges.
- B. An analysis of all positions/classifications of the employer, should be included, with explanation if Navajos are currently being under-utilized in any positions/classifications, "Under-utilization" is defined as having a fewer Navajos in any position/classification than would be expected by the availability of qualified Navajo workers.
- C. An in-depth analysis of the following shall be made:
 - 1. Composition of Navajo and non-Navajo employees by positions/classifications.
 - 2. Composition of applicant flow of Navajos and non-Navajos.
 - 3. Selection process including recruitment, job descriptions, interview criteria, written tests and final selection.

4. Retention, promotion, transfer, reduction in force and recall.
 5. Apprenticeship program/trainings.
 6. Company training – formal and informal.
- D. If any of the following are identified in the analysis, a plan of corrective action must be established immediately:
1. An under-utilization of Navajo employees.
 2. Vertical movement of Navajos occurs at a lesser rate than that of non-Navajos.
 3. The selection process eliminates a significantly higher percentage of Navajos than non-Navajos.
 4. Position/job descriptions are inaccurate in relation to actual duties and function.
 5. Testing and/or test forms having adverse impact at a higher rate on Navajos than non-Navajos.
 6. Non-support of the company's affirmative action policy by employees' supervisors or managers.
 7. No formal criteria established for evaluating the effectiveness of the affirmative action program.

VI. UNIONS AND LABOR ORGANIZATIONS

- A. Where employers are signatory to collective bargaining agreements, the union organizations and the employer shall file a joint employer – union affirmative action plan to the Office of Navajo Labor Relations pursuant to NPEA, Section 4.A.2.
- B. The joint employer – union affirmative action policy shall specifically include a clause that the employer and the labor organization will provide preference in employment to Navajos.
- C. When providing preference in employment to Navajos, the affirmative action policy shall require the following:
 1. The employer shall specifically request Navajo workers for work to be done on the Navajo Nation. The employer shall not accept referrals of non-Navajos for work on the Navajo Nation, so long as potentially qualified Navajos are available, through respective local union halls.

2. The labor organization shall first refer all Navajos on the labor organization's referral list (s), regardless of their relative position on those lists.
3. The labor organization shall take necessary steps to recruit additional Navajo members so as to meet manpower requests for work to be conducted on the Navajo Nation.

VII. ENFORCEMENT

- A. The designated company management official shall be responsible for compliance with the requirements of these Rules and Regulations.
- B. Employers and organizations not in compliance will be subjected to formal charges in accordance with provisions of the *Navajo Preference in Employment Act*.
- C. Failure to comply with these Rules and Regulations or failure to submit an affirmative action policy may result, in addition to formal charges, corrective action by the Office of Navajo Labor Relations, including but not limited to, compelled hiring and/or training of Navajo workers.

VIII. EFFECTIVE DATE

- A. These Regulations shall become effective 180 days from the date of approval by the Human Services Committee of the Navajo Nation Council.
- B. Within 90 days of the effective date, employers must have submitted an affirmative action plan to the Office of Navajo Labor Relations.

IX. AMENDMENT

- A. This regulation shall be amended from time to time as deemed necessary by the Human Services Committee of the Navajo Council.

OFFICE OF NAVAJO LABOR RELATIONS
EMPLOYER INTERVIEW REPORT

Project

*N = Navajo
NN= Non-Navajo

Contractor

Location

Position

DATE	APPLICANT	N/NN	ADDRESS/TELEPHONE	INTERVIEWER	RESULTS

CONDITION FOR EMPLOYMENT EXPRESSED TO APPLICANT

J

1. Explain or inform worker what's expected of him/her. The work rules or conducts.
2. Each employee should know what their position is; rate of pay, and given a written personnel action form.
3. Thorough orientation on company/employer policies and procedures.

WRITTEN NOTIFICATION FOR ANY EMPLOYEE ACTION

K

1. "All employers shall not penalize, discipline, discharge nor take any adverse action against any Navajo employee without just cause. A written notification to the employee citing such cause for any of the above actions is required in all cases."
(15 NNC 604.B.(8.))

S A M P L E
(Use Company Letterhead)



Date: _____

Office of Navajo Labor Relations
Post Office Drawer 1943
Window Rock, Arizona 86515

RE: WEEKLY MANPOWER REPORT FOR WEEK ENDING: _____

Duration of Project: Start Date: _____

Completion Date: _____

Contract Number: _____

Project Title: _____

Project Stage of Completion (%): _____

Total Work Force (*): _____

*Justification for hiring non-Navajo employee:

Important Notice: Each Weekly
Manpower shall have a
corresponding Certified Payroll
Report attached.

Representative Name & Title (Printed)

Signature

Original to:
Office of Navajo Labor Relations
Attn: John P. Wilson, LCO
Post Office Drawer 1704
Shiprock, New Mexico 87420

Copy to:
Office of Navajo Labor Relations
Attn: Michael Armijo, CEA
Post Office Drawer 1943
Window Rock, Arizona 86515

WEEKLY MANPOWER REPORT
For Week Ending: _____

	NAVAJO		NON-NAVAJO	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Project Superintendent	_____	_____	_____	_____
Project Foreman	_____	_____	_____	_____
Carpenter	_____	_____	_____	_____
Electrician	_____	_____	_____	_____
Laborer	_____	_____	_____	_____
Drywaller Installer/Taper	_____	_____	_____	_____
Plumber	_____	_____	_____	_____
Pipefitter	_____	_____	_____	_____
Truck Driver	_____	_____	_____	_____
Equipment Operator	_____	_____	_____	_____
Ironworker	_____	_____	_____	_____
Roofer	_____	_____	_____	_____
Painter	_____	_____	_____	_____
Soft Tilesetter	_____	_____	_____	_____
Insulator	_____	_____	_____	_____
Cement Mason	_____	_____	_____	_____
Apprentice	_____	_____	_____	_____
Others (Specify Craft)	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
TOTALS:	_____	_____	_____	_____

(List Only those Classifications Utilized During that Week)

Date _____

I, _____
(Name of signatory party)
do hereby state: _____
(Title)

_____ on the _____
(Contractor or subcontractor) (Building or work)

_____ ; that during the payroll period commencing on the _____ day of _____, 20____ and ending the _____ day of _____, 20____ all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said _____.

(Contractor or subcontractor)

_____ weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 75 Stat. 357; 40 U.S.C. 267c), and described below:

_____ from the full

(Contractor or subcontractor)

weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat 967; 75 Stat 357; 40 U.S.C. 267c), and described below:

(2) That any payrolls otherwise under this contract require to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with the State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor.

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

٤ - In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

ف- Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in Section 4(c) below.

EXCEPTION (CRAFT)	EXPLANATION
REMARKS	

REMARKS

NAME AND TITLE

SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO A CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.



PROJECT STATUS REPORT
S A M P L E
(Use Company Letterhead)

Date: _____

PROJECT TITLE: _____

Duration of Project: START: _____ Completion: _____

Job Location: _____

Check Appropriate Spaces:

_____ Complete – No employees or workers on site.

_____ Near Completion, will be completed by: _____

_____ Other: _____

Additional Work Project: FROM: _____ TO: _____

Description of additional work required:

Company: _____

Representative Name: _____

Title: _____

IMPORTANT NOTICE

In the event contractor/subcontractor returns to perform additional work on this project, Office of Navajo Labor Relations must be contacted and a manpower projection report shall be submitted to ONLR before any work is to start. Form can be faxed to the Office of Navajo Labor Relations at:

Office of Navajo Labor Relations
(505) 368-1145

NOTE: Please fill out this form within two weeks of completion of project.

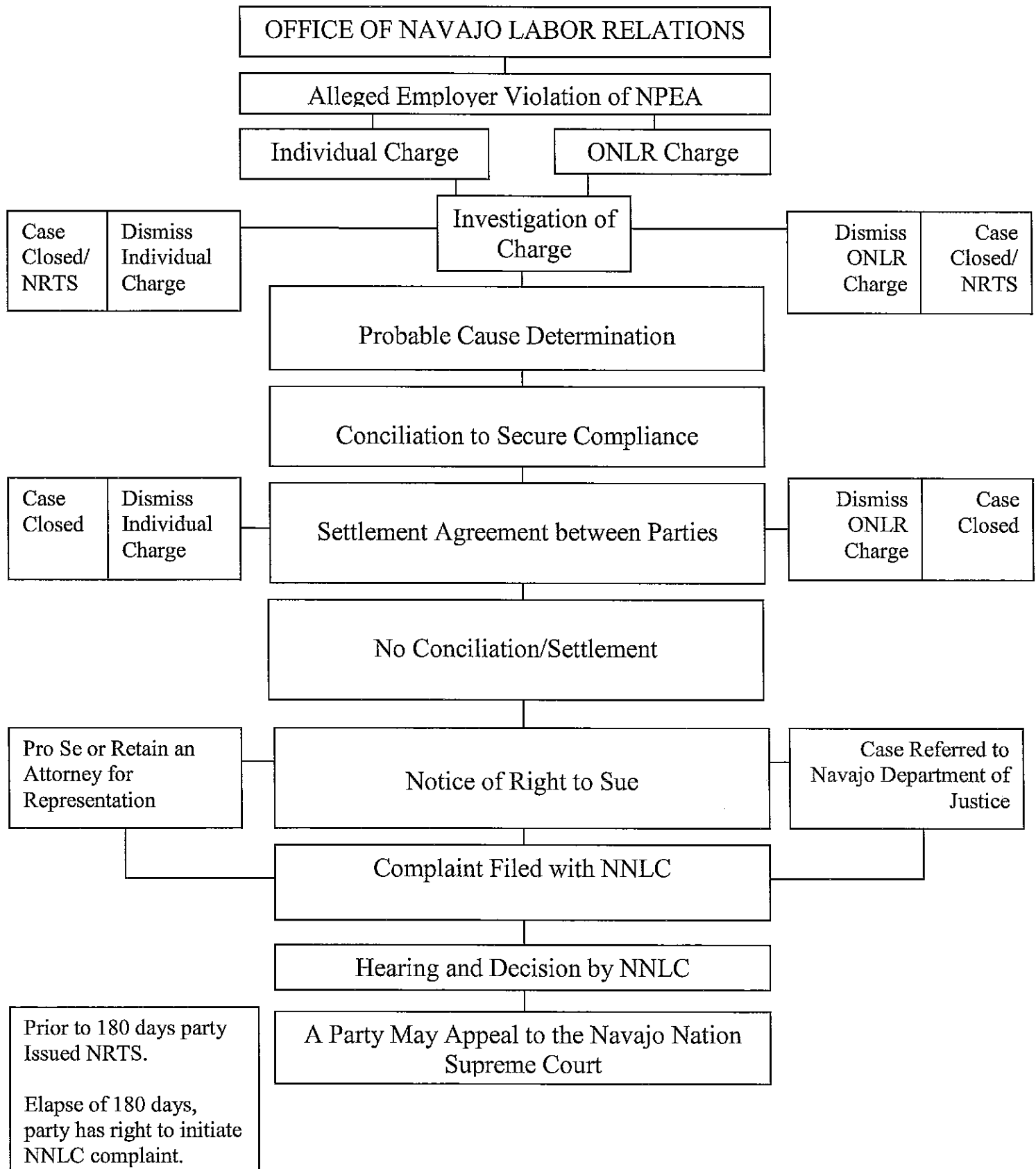
Original to:

Office of Navajo Labor Relations
Attn: John P. Wilson, LCO
P. O. Drawer 1704
Shiprock, New Mexico 87420

Copy to:

Office of Navajo Labor Relations
Attn: Michael Armijo, CEA
P. O. Drawer 1943
Window Rock, Arizona 86515

INVESTIGATION PROCESS FLOW CHART



APPENDIX C

Environmental Requirements

- BLM Pipeline Right-of-Way Stipulations
- BLM Pump Station Right-of-Way Stipulations
- Navajo Department of Agriculture Re-seeding Requirements
- BLM Re-vegetation Plan

BLM Pipeline Right-of-Way Stipulations

EXHIBIT A

Project: Reaches 24.1, 24.1 JAN, and 25 of the Navajo-Gallup Water Supply Project
EA Log Number: DOI-BLM-NM-F010-2013-0295-EA
R/W Serial Number: NMNM 131147, NM 131147 01
R/W Project Number: 6921307
Location: T 21 N, R 05 W, Section 06, Lots 4, 5, 6, 7;
T 22 N, R 06 W, Section 04, SWSW;
T 22 N, R 06 W, Section 05, S2SE,
T 22 N, R 06 W, Section 10, NWSW, W2SE,
T 22 N, R 06 W, Section 14, SWNW, W2SW,
T 22 N, R 06 W, Section 15, E2NE,
T 22 N, R 06 W, Section 23, E2NW, NESW,
File Code: 2880
Holder : Navajo Tribal Utility Authority
Address: P.O. Box 170, Fort Defiance, AZ 86504-0170
BLM Office: Farmington Field Office, Phone No: (505) 564-7600

PIPELINE RIGHT-OF-WAY STIPULATIONS

The following stipulations and/or mitigating measures will be implemented throughout the construction, maintenance, termination (or relinquishment), and reclamation of this project. If problems arise during or after field work is completed, the applicant/contractor(s) is required to promptly notify the Bureau's authorized representative. Consultation between the applicant/contractor(s) and the Bureau's authorized representative may result in additional field work being required of the applicant/contractor(s) to fully implement one or more of the following stipulations.

CULTURAL STIPULATIONS

Cultural resources are present within the immediate project area. Monitoring and temporary site protection barriers may be required on this project. See Cultural Resource Record of Review, BLM Report Number 2013(I)065, 2013(I)065.1 for site-specific stipulations.

A. CONSTRUCTION AND MAINTENANCE STIPULATIONS

1. **Disclaimers:** BLM's approval of this ROW does not relieve the lessee and operator from obtaining any other authorizations that may be required by other jurisdictional entities or agencies.
2. **BMP:** Farmington Field Office established environmental Best Management Practices (BMP's) will be followed during construction and reclamation of well site pads, access roads, pipeline ties, facility placement or any other surface disturbing activity associated with this project. Bureau wide standard BMP's are found in the Gold Book, Fourth Edition-Revised 2007. Farmington Field Office BMP's are integrated into the general and site specific stipulations described below.
3. **New Surface Disturbance:** Holder shall not initiate any construction or other surface disturbing activities on the right-of-way without prior written authorization of the AO.
4. **Approved ROW:** No surface disturbing activities shall take place on the subject right-of-way until the associated ROW is approved. The holder will adhere to special stipulations in the Surface Use Program of the approved ROW, relevant to any right-of-way facilities.
5. **Operational Approval:** This approval is for operational activities only. Surface commingling and/or off-lease sales, storage, usage and measurement require separate approval by the AO.
6. **Plan of Development:** Holder shall construct, operate and maintain the facilities, improvements and structures within this right-of-way in strict conformity with the plan(s) of development which was (were) approved and made part of the grant on February 10, 2014. Any relocation, additional construction, or use that is not in

accord with the approved plan(s) of development, shall not be initiated without the prior written approval of the AO.

7. **On-Site Documentation:** A copy of the complete right-of-way grant, including all stipulations and approved plan(s) of development, shall be made available on the right-of-way area during construction, operation and termination to the AO. Noncompliance with the above will be grounds for an immediate suspension of activities if it constitutes a threat to public health and safety of the environment. Construction may not proceed until a Notice to Proceed is issued.
8. **Dust Abatement:** The operator shall implement dust abatement measures as indicated in the approved POD to prevent fugitive dust from vehicular traffic, equipment operations, or wind events. The BLM may direct the operator to change the level and type of treatment (watering or application of various dust agents, surfactants, and road surfacing material) if dust abatement measures are observed to be insufficient to prevent fugitive dust.
9. **Clearing:** Trees three inches in diameter or greater will be cut and de-limbed; trunks stacked on the opposite side of the right-of-way for wood gatherers. Cut trees shall be placed so that the public can gather trees without creating additional disturbance or degrading new or existing reclamation. Trees three inches or less, slash and brush will either be chipped and used on the pipeline or hauled to an approved disposal site. When chipping trees, slash and brush, the material generated will be distributed in a manner which will not impede seeding with machinery and the establishment of successful revegetation.
10. **Trenching:** Minimize the amount of open trench ahead of pipe laying and backfilling. No More than ½ mile of trench or the amount of trench that can be worked in a day will be open at any given time. Backfilling operations would be performed within a reasonable amount of time of the lowering operation to ensure the trench is not left open for more than 24 hours. Trenches left open overnight will be fenced with a temporary fence or other methods approved by the Authorized Officer. The ends of the trench will be sloped (3:1) to allow animals to escape.

Escape ramps/crossovers will be constructed every 1320 feet. In areas where active grazing is taking place or in Wildlife Specially Designated Areas (SDA's) escape ramps/crossovers will be placed every 500 feet. The ends of the open trench will be sloped each night with a 3:1 slope.

Established livestock and wildlife trails will be left in place as a cross over. Escape ramps/crossovers will be constructed with a minimum 3:1 slope at each end of the crossover. Crossovers will be a minimum of ten feet wide and not fenced.

The end of the pipe will be plugged to prevent animals from crawling in.

Before the trench is closed, inspect the trench for any animal that may be in the trench. Any trapped wildlife or livestock will be promptly removed and released at least 150 yards from the trench.

11. **Weather:** No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 6 inches deep, the soil shall be deemed too wet.
12. **Nesting:** If a bird nest containing eggs or young is encountered in the path of construction the operator will cease construction and consult with BLM to determine appropriate actions. Should active nests be observed, the contractor has determined that project activities cannot be avoided until after the birds have fledged (left the nest), and if no practicable or reasonable avoidance alternatives are identified, then the contractor must contact the USFWS's Migratory Bird Permit Office in Albuquerque, NM at (505) 248-7882. The contractor may proceed with work on the affected project activities following receipt of the approved permit the USFWS.
13. **Public Access:** Public access to existing roads will not be restricted without specific written approval being granted by the AO. Gates or cattleguards on the public land will not be locked or closed to public use unless specifically determined by the AO.

14. **Staking:** Holder shall survey and clearly mark the centerline and/or exterior limits of right-of-way, as determined by the AO (set reference markers for all angle stations {P.I.} on both sides of the right-of-way prior to construction activities).
15. **Top Soil:** The top 6 inches of soil material will be stripped and stockpiled separately from material removed from the trench within the right-of-way and/or temporary construction area. The stockpiled soil will be free of brush and tree limbs, trunks and roots. The stockpiled soil material will be spread on the reclaimed portions of the ROW prior to re-seeding. Spreading shall not be done when the ground or topsoil is frozen or wet. Tree limbs, trunks, and roots must be removed from the site unless otherwise designated by the AO or approved POD.
16. **Waterbars:** Holder shall construct waterbars on all disturbed areas to the spacing and cross sections specified by the AO. Waterbars are to be constructed to: (1) simulate the imaginary contour lines of the slope (ideally with a grade of one or two percent); (2) drain away from the disturbed area; and (3) begin and end in vegetation or rock whenever possible. Spacing will be as follows:

Percent Slope	Spacing Intervals
less than 1%	400 feet
1 - 5%	300 feet
5 - 15%	200 feet
12 - 25%	100 feet

17. **Re-contouring:** All disturbed areas will be re-contoured to establish approximate original contours of right-of-way. This includes removing embankments, backfilling excavations, and grading to re-establish the approximate original contours of the land in the right-of-way.
18. **Restricted ROW Access:** Holder is responsible for restricting vehicle access along the ROW using methods identified in the approved POD.
19. **Liability for Damage:** If any road drainage structures (silt traps, culverts, drainage ditches or water turnouts) are damaged or destroyed during pipeline construction the pipeline company Navajo Tribal Utility Authority (NTUA) will be liable for any damage and will rebuild or replace any damaged structures as per the Authorized Officer.
20. **Painting of Equipment:** Within 90 days of installation, all above ground structures, excluding those that pose a safety hazard, shall be painted by the Holder to blend with the natural color of the landscape. High visibility paint and /or reflective material may be used to address safety hazards or reduce hazards that may occur when such structures are near roads. Otherwise, the paint use shall be a non-glare, non-reflective, non-chalking color of as selected from the Standard Environmental Colors listed below: *Juniper Green*

Public Safety: Holder shall provide for the safety of the public entering the right-of-way. This includes, but is not limited to, barricades for open trenches, flagmen/women with communication systems for single-lane roads without intervisible turnouts, and attended gates for blasting operations.

21. **Grazing Permittee Notification:** For any and all construction activities the holder will notify the grazing lease operator(s) at least ten business days prior to beginning construction to ensure there will be no conflicts between construction activities and livestock grazing operations. The holder is in no way obligated to cease or delay construction unless directed by the authorized officer. Any range improvement (fences, pipelines, ponds, etc) disturbed by construction activities will be repaired immediately following construction and will be repaired to the condition they were in prior to disturbance.
Lessee : Counselor Community #6015, Venado Grazing Allotment #5112
22. **Fences:** Holder is responsible to contact the grazing lessee(s) prior to crossing any fence on public land or any fence between public and private land, and to offer the lessee(s) an opportunity to be present when the fence cut(s) is made so the lessee(s) can be satisfied that the fence is adequately braced and secured.

23. **Noxious Weeds:** Inventory the proposed route or site for the presence of noxious weeds. Noxious weeds are those listed on the New Mexico Noxious Weed List. The following weeds have been identified as occurring on lands within the boundaries of the Farmington Field Office (FFO).

Russian Knapweed (<i>Centaurea repens</i>)	Musk Thistle (<i>Carduus nutans</i>)
Bull Thistle (<i>Cirsium vulgare</i>)	Canada Thistle (<i>Cirsium arvense</i>)
Scotch Thistle (<i>Onopordum acanthium</i>)	Hoary Cress (<i>Cardaria draba</i>)
Perennial Pepperweed (<i>Lepidium latifolium</i>)	Halogeton (<i>Halogeton glomeratus</i>)
Spotted Knapweed (<i>Centaurea maculosa</i>)	Dalmation Toadflax (<i>Linaria genistifolia</i>)
Yellow Toadflax (<i>Linaria vulgaris</i>)	Camelthorn (<i>Alhagi pseudalhagi</i>)
African Rue (<i>Peganum harmala</i>)	Salt Cedar (<i>Tamarix spp.</i>)
Diffuse Knapweed (<i>Centaurea diffusa</i>)	Leafy Spurge (<i>Euphorbia esula</i>)

- a. Identified weeds will be treated prior to new surface disturbance. A Pesticide Use Proposal (PUP) must be approved by the A.O. prior to application of pesticide. The FFO Noxious Weeds Coordinator (505-564-7600) can provide assistance in the development of the PUP.
 - b. Construction equipment should be inspected and cleaned prior to coming onto the work site. This is especially important on vehicles from out of state or if coming from a weed-infested site. If fill dirt or gravel will be required, the source shall be noxious weed free.
 - c. The site shall be monitored for the life of the project for the presence of noxious weeds (includes maintenance and construction activities). If weeds are found the FFO Coordinator will be notified at (505) 564-7600 and the coordinator will determine the best method for the control of the particular weed species.
24. **Soil Preparation and Seeding:** Seeding will be accomplished using the procedures outlined in the Right-of-Way Plan of Development Procedure as determined by the FFO Bare Soil Procedure and Vegetative Communities.
25. **Maintenance:** In order to perform subsequent pipeline operations or install new/additional equipment, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is promptly repaired and reclaimed following use. Where vehicular travel has occurred as a "convenience" and interim reclamation/vegetation has been compromised, immediate remediation of the affected areas is required. Additionally, where erosion has occurred and compromised the reclamation of the pipeline, the affected area must be promptly remediated so that future erosion is prevented and the landform is stabilized.
26. The operator or his contractor will e-mail the Bureau of Land Management, Farmington Field Office, Lands Compliance Staff, slandon@blm.gov, 48 hours prior to completion of reclamation efforts associated with this project.

STANDARD RIGHT-OF-WAY STIPULATIONS:

1. Holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.
2. Disposal of all liquid and solid waste produced during operation of this right-of-way shall be in an approved manner so it will not impact the air, soil, water, vegetation or animals.
3. Holder shall not violate applicable air and water quality standards or related facility siting standards established by or pursuant to applicable Federal and State law.

4. Holder shall minimize disturbance to existing fences and other improvements on public land. The Holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. Holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be H-braced on both sides of the passageway prior to cutting the fence.
5. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes, water used for pressure testing, and equipment.
6. Holder shall maintain the ROW in a safe, useable condition, as directed by the Authorized Officer (AO). (A regular maintenance program shall be included in the POD.)
7. Use of pesticides and herbicides shall comply with the applicable Federal and State laws. Pesticides and herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, Holder shall obtain from the AO written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the AO. Emergency use of pesticides shall be approved in writing by the AO prior to use.

B. CULTURAL RESOURCES ARCHAEOLOGY

1. **DISCOVERY OF CULTURAL RESOURCES IN THE ABSENCE OF MONITORING:** If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM District Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is successfully completed. Failure to notify BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).
2. **DISCOVERY OF CULTURAL RESOURCES DURING MONITORING:** If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to BLM District Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.
3. **DAMAGE TO SITES:** If, in its operations, operator/holder damages, or is found to have damaged, any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resource Protection Act of 1979 (as amended).
4. **EMPLOYEE EDUCATION:** All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. This includes all personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipeline. They will also be notified that it is illegal to collect, damage, or

disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16U.S.C. 470aa-mm).

C. ABANDONMENT

1. Ninety days prior to termination of the ROW, Holder shall contact the AO to arrange a joint inspection of the ROW. This inspection will be held to agree to an acceptable termination and rehabilitation plan. This plan shall include, but is not limited to, removal of facilities, drainage structures, or surfacing material, recontouring, topsoiling or seeding. The AO must approve the plan in writing prior to Holder's commencement of any termination actions.

D. GENERAL

1. After complying with all construction and/or maintenance stipulations, submit a "Proof of Construction" letter and an "as built" plat. Proof of Construction letters shall be filed with BLM, Farmington District, 6251 College Blvd., Farmington, NM 87402, no later than 90 days after completion of construction.
2. Holder of this right-of-way agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on this ROW (unless the release or threatened release is wholly unrelated to Holder's activity in this ROW). This agreement applies without regard to whether a release is caused by the Holder, their agent, or unrelated third parties.
3. Holder(s) shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release of spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
4. Holder of this right-of-way grant, or the Holder's successor in interest, shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.

On behalf of Navajo Tribal Utility Authority (NTUA) I have reviewed these stipulations and conditions and agree with them.

Walter W. House
Navajo Tribal Utility Authority (NTUA)
Darlene E. Baker
BLM Field Examiner

6/14/2014
Date
6-6-2014
Date

BLM Pump Station Right-of Way Stipulations

Holder: Navajo Tribal Utility Authority (NTUA)
Address: P.O. Box 170, Fort Defiance, AZ 86504-0170
Station Name: Navajo Gallup Water Supply Project Reach 25 Water Pump Station
Legal Location: T 22 N, R 06 W, Section 14, NWSW;
NEPA Log Number: NM- NM-F010-2013-0295-EA
Lease Number: NMNM 131146

Conditions of Approval

The following conditions of approval will apply to the NTUA and Sauder Miller Ass., Reach 25 Water Pump Station and other associated facilities, unless a particular Surface Managing Agency or private surface owner has supplied to Bureau of Land Management and the operator a contradictory environmental stipulation.

Copy of Plans: A complete copy of the ROW package, including exhibits and the Plan(s) of Operation (if required), shall be at the project area and available to all persons.

Disclaimers: BLM's approval of this ROW does not relieve the lessee and operator from obtaining any other authorizations that may be required by the BIA, Navajo Tribe or other jurisdictional entities.

Special Stipulations

1. **Cultural Resources:** Cultural resources are present within the immediate project area. See Cultural Resource Record of Review, BLM Report Number 2013(I)065, 2013(I)065.1F for site specific stipulations. Site protection barrier fencing and monitoring is required.
2. **Migratory Bird:** The BLM/FFO migratory bird policy requires a bird nest survey between May 15-July 31 for any projects that would remove 4.0 or more acres of vegetation. The proposed project is estimated to disturb less than four acres of vegetation but with the surrounding project disturbance, a survey will be required.
3. **Trees, Slash and Brush:** All trees, 3 inches diameter or less, slash and brush will be chipped and used on the road shoulders and/or location. When chipping trees, slash and brush, the "chips" shall be distributed in a manner which will not be impede seeding with machinery and the establishment of successful revegetation. Trees 3 inches in diameter or greater, will be cut and de-limbed; trunks will be left whole along access or existing road for wood gathering. The subsurface portion of trees (root balls) will be placed in adjacent areas needing soil stabilization or hauled to an approved disposal facility. Cut trees shall be placed so that the public can gather trees without creating additional disturbance or degrading new or existing reclamation.
4. **Painting of Equipment:** Within 90 days of construction, all above ground structures not subject to safety requirements shall be painted by the Holder to blend with the natural color of the landscape. A reflective material may be used to reduce hazards that may occur when such structures are near roads. Otherwise, the paint use shall be a non-glare, non-reflective, non-chalking color of: 18-0617TPX (Covert Green)

General Conditions of Approval

1. **BMP:** Farmington Field Office established environmental Best Management Practices (BMP's) will be followed during construction and reclamation of well site pads, access roads, pipeline ties, facility placement or any other surface disturbing activity associated with this project. Bureau wide standard BMP's are found in the Gold Book, Fourth Edition-Revised 2007. Farmington Field Office BMP's are integrated into the general and site specific stipulations described below.
2. **Acquisition of Water:** Water acquired to construct, produce, and maintain actions authorized by this permit to drill must be acquired from permitted water sources, or water authorized for use by the New Mexico Oil Conservation Division (OCD). Upon request the AO shall be provided with documentation of water sources.

3. **Dust Abatement:** The operator shall implement dust abatement measures as needed to prevent fugitive dust from vehicular traffic, equipment operations, or wind events. The BLM may direct the operator to change the level and type of treatment (watering or application of various dust agents, surfactants, and road surfacing material) if dust abatement measures are observed to be insufficient to prevent fugitive dust.
4. **Grazing Permittee Notification:** For any and all construction activities the holder will notify the grazing lease operator(s) at least ten business days prior to beginning construction to ensure there will be no conflicts between construction activities and livestock grazing operations. The holder is in no way obligated to cease or delay construction unless directed by the authorized officer. Any range improvement (fences, pipelines, ponds, etc) disturbed by construction activities will be repaired immediately following construction and will be repaired to the condition they were in prior to disturbance.

Construction:

1. **Authorized Use:** All activities associated within the construction, use/operation, maintenance, and abandonment or termination of the NTUA and Sauder Miller Ass., Reach 25 Water Pump Station is limited to areas approved by the BLM. All roads on public land must be maintained in good passable condition year round.
2. **Top Soil:** The top 6 inches of soil material will be stripped and stockpiled in the construction zones. The stockpiled soil will be free of brush and tree limbs, trunks and roots. The stockpiled soil material will be spread on the reclaimed portions of the pad [including the reserve pit, cut and fill slopes] prior to re-seeding. Spreading shall not be done when the ground or topsoil is frozen or wet.
3. **Vegetation Removal:** Sage, grass and brush will be mowed and then scraped up and stockpiled for interim reclamation. Topsoil should be segregated and stored separately from substrate materials to avoid mixing during construction, storage and interim reclamation. Substrate materials should be placed on top of topsoil at any point in the operation. Stockpiles should be located and protected so that wind and water erosion are minimized and reclamation potential is maximized.
4. **Weather:** No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 6 inches deep, the soil shall be deemed too wet.

Access Road

1. **Access:** All sections of the proposed access road associated with this permit shall be sited, designed, constructed, upgraded and maintained utilizing standards, requirements, guidelines and instructions specified in BLM Manual 9113 "Roads", BLM Manual 9113-1 "Roads Design Handbook", BLM Manual 9113-2 "Roads National Inventory and Condition Assessment Guidance & Instructions Handbook" and Surface Operations and Guidelines for Oil and Gas Exploration and Development "The Gold Book".
2. **Driving Surface Area:** All activities associated within the construction, operation, maintenance, and abandonment of the well location is limited to areas approved in the APD or ROW permit. During the production of the well, vehicular traffic is limited to the daily driving surface area established during interim reclamation construction operations. This area typically forms a keyhole or teardrop driving surface from which all production facilities may be serviced or inspected. A v-type ditch may be constructed on the outside of the driving surface to further define the driving surface and to deter vehicular traffic from entering onto the interim reclamation areas.
3. **Culverts:** Culvert(s) of sufficient size (minimum 24-36 inches) will be placed where needed along the access road, at the well pad entrance and access take off. Silt Traps will be built upstream of all culvert locations.

4. **Surfacing:** Surfacing may be applied at the Holder's discretion, but is not required at this time. However, if it becomes evident there is resource damage or it becomes evident the road is receiving excess damage, surfacing will be required.

Vegetation:

1. **Soil Preparation and Seeding:** All areas of the well site location not utilized for the production operations on a daily basis will be reseeded with the specified seed mix. Compacted areas shall be ripped to a depth of 12" and disked to a depth of six inches before seeding. Where compacted soils cannot be successfully de-compacted with an initial attempt, it will be necessary to rip compacted areas multiple times; often perpendicular to the original rips, to ensure the compacted soils are adequately loosened and an adequate seedbed is established. Seeding shall be done with a disk-type drill with multiple boxes for various seed sizes. The drill rows shall be eight to ten inches apart. Seed shall be planted at not less than one-half inch deep or more than one inch deep. The seeder shall be followed with a drag, packer, or roller to ensure uniform coverage of the seed, and adequate compaction. Drilling shall be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling a "cyclone" hand seeder or similar broadcast seeder shall be used. Seed shall then be covered to the depth described above by whatever means is practical, i.e. hand raked. Seed mixture used must be certified. There shall be **NO** primary or secondary noxious weeds in seed mixture. Seed labels from each bag shall be available for inspection while seed is being sown. Seeding shall be accomplished within 120 days of completion of the construction project (timeframe may be extended on a case-by-case basis with AO approval). Seeding shall be repeated if a satisfactory stand is not obtained as determined by the **AO** upon evaluation after the second growing season.
2. **Time Frame:** Disturbed areas will be re-contoured and re-seeded within 90 days of final construction. The timeframe may be extended on a case-by-case basis with AO approval. Seeding will be repeated if a satisfactory stand is not obtained as determined by the AO upon evaluation after the second growing season.
3. **Maintenance:** In order to perform subsequent well operations or install new/additional equipment, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is promptly repaired and reclaimed following use. Where vehicular travel has occurred as a "convenience" and interim reclamation/vegetation has been compromised, immediate remediation of the affected areas is required. Additionally, where erosion has occurred and compromised the reclamation of the well location, the affected area must be promptly remediated so that future erosion is prevented and the landform is stabilized.
4. **Noxious Weeds:** Inventory the proposed route or site for the presence of noxious weeds. Noxious weeds are those listed on the New Mexico Noxious Weed List. Construction equipment should be inspected and cleaned prior to coming onto the work site. This is especially important on vehicles from out of state or if coming from a weed infested area. If fill dirt or gravel will be required, the source shall to be noxious weed free. The well pad, access road and pipeline tie shall be monitored for the life of the road for the presence of noxious weeds (includes maintenance and construction activities). If weeds are found, the FFO Weed Coordinator will be notified at (505) 599-8900 and the coordinator will determine the best method for the control of the particular weed species. Treat existing weeds prior to new surface disturbance. Use of pesticides and herbicides shall comply with applicable federal/state laws. Pesticides and herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, holder shall obtain from the **AO** written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary. Emergency use of pesticides shall be approved in writing by the **AO** prior to use.

The following noxious weeds have been identified as occurring on lands within the boundaries of the Farmington Field Office (FFO).

Russian Knapweed (<i>Centaurea repens</i>)	Musk Thistle (<i>Carduus nutans</i>)
Bull Thistle (<i>Cirsium vulgare</i>)	Canada Thistle (<i>Cirsium arvense</i>)
Scotch Thistle (<i>Onopordum acanthium</i>)	Hoary Cress (<i>Cardaria draba</i>)
Perennial Pepperweed (<i>Lepidium latifolium</i>)	Halogeton (<i>Halogeton glomeratus</i>)
Spotted Knapweed (<i>Centaurea maculosa</i>) <i>genistifolia</i>)	Dalmation Toadflax (<i>Linaria</i>
Yellow Toadflax (<i>Linaria vulgaris</i>)	Camelthorn (<i>Alhagi pseudalhagi</i>)
African Rue (<i>Peganum harmala</i>)	Saltcedar (<i>Tamarix</i> spp.)
Diffuse Knapweed (<i>Centaurea diffusa</i>)	Leafy Spurge (<i>Euphorbia esula</i>)

5. **Pesticides and Herbicide Use:** Use of pesticides and herbicides will comply with applicable federal/state laws. Pesticides and herbicides will only be used in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. A written plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary will be approved by the Authorized Officer(AO) prior to the use of pesticides. Emergency use of pesticides shall be approved in writing by the AO prior to use.
6. **Air Quality** All air pollutant emissions from federally conducted or approved activities shall comply with all applicable local, state, tribal, and federal air quality laws, statutes, regulations, standard and implementation plans.
7. **Threatened, Endangered or Sensitive Species:** If, in operations the operator/holder discovers any T&E / Sensitive species, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to the BLM T&E specialist @ (505) 564-7600. BLM will then specify what action is to be taken. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Endangered Species Act (as amended).
8. **Nesting:** If a bird nest containing eggs or young is encountered in the path of construction the operator will cease construction and consult with BLM to determine appropriate actions.
9. **Ponderosa Pine/ Hardwoods:** No hardwood tree with a diameter of ten inches or more at the base or any Ponderosa pine, Douglas-fir or aspen tree is to be removed or damaged without approval from the Authorized Officer.
10. **Paleontology or Cultural Specially Designated Area:** Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. AN evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the Holder.
11. **Public Access:** Public access will not be restricted without specific written approval being granted by the AO. Gates or cattle-guards on the public land will not be locked or closed to public use unless specifically determined by the AO.
12. **Land Farming:** No excavation, remediation or closure activities will be authorized without prior approval on any federal or Indian mineral estate, federal surface or federal ROW. A Sundry Notice (DOI, BLM Form 3160-5) must be submitted with an explanation of the remediation or closure plan for on-lease actions.
13. **Site Condition:** Well area and lease premises will be maintained in a workmanlike manner and sanitary condition with due regard to safety, conservation and appearance at all times. A regular maintenance program shall include.

- 14. Waste Disposal:** Waste materials produced during all phases of operation will be disposed of promptly in an approved manner so it will not impact the air, soil, water, vegetation or animals. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be removed and deposited in an approved disposal site. Portable toilets will remain on site throughout well pad construction, drilling and reclamation.
- a. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.
- 15. Crossing Existing Improvements:** Prior to crossing, using or paralleling any improvement on public land, the operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to the improvements.
- 16. Fences and Existing Improvements:** Disturbance to existing fences and other improvements on public land will be minimized and will be promptly repair to at least their former state. Their functional use will be maintained at all times. The owner of any improvement will be contacted prior to disturbing them
- a. Each fence crossed by will be H-braced and secured on both sides to prevent slacking of the wire, before cutting the wire. The opening thus created will be temporarily closed as necessary during construction to prevent passage of livestock. Upon completion of construction, install a cattle guard with an adjacent 16 foot gate. The cattle guard shall be constructed to Bureau of Land Management specifications. Cattle guards will be kept clean and repaired or replaced when needed.
- b. A minimum of 10 feet of undisturbed surface will be maintained between fence lines and roads that are constructed parallel to fences.
- c. Gaps opened in natural barriers used for livestock control during construction will be fenced to prevent drift of livestock, as directed by the AO.

Cultural Resources

Construction, construction maintenance or any other activity outside the areas permitted by the BLM ROW grant will require additional approval and may require a new cultural survey and clearance.

- 1. Employee Education:** All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. This includes all personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipeline. They will also be notified that it is illegal to collect, damage, or disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16U.S.C. 470aa-mm).
- 2. Discovery of Cultural Resources in the Absence of Monitoring:** If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to Bureau of Land Management Field Manager. The Bureau of Land Management will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the Bureau Land Management will evaluate the significance of discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may

be performed by a Bureau of Land Management or permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify the Bureau of Land Management about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

3. **Discovery of Cultural Resources during Monitoring:** If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the Bureau of Land Management Field Manager. The Bureau of Land Management will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the Bureau of Land Management will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. A Bureau of Land Management or permitted cultural resources consultant may perform minor recordation, stabilization, or data recovery. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.
4. **Damage to Sites:** If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a Bureau of Land Management approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

Abandonment

Ninety days prior to termination of the right-of-way the holder shall contact the AO to arrange a joint inspection of the ROW. This inspection will be held to agree to an acceptable termination (and rehabilitation) plan. The plan will include, but is not limited to, removal of facilities, drainage structures, or surfacing material, re-contouring, top soiling or seeding. The AO must approve the plan in writing prior to the holder's commencement of any termination actions.

Final Reclamation and Abandonment

If, upon abandonment of the pumping station, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead end ditch and earthen barricade at the entrance to these ripped areas. (Re-seeding of affected areas may be required).

Navajo Department of Agriculture Re-seeding Requirements

Prepared by: Judy R. Willetto, Range Conservationist
Navajo Department of Agriculture - Ft. Defiance A.O.
P.O. Box 308
Window Rock, Arizona 86515
Telephone (602) 871-7076
FAX (602) 871-5493
Revision Date: December 6, 1994

NAVAJO TRIBAL UTILITY AUTHORITY VEGETATIVE RECLAMATION FOR PIPELINE AND POWERLINE R.O.W.

PIPELINE (GAS, WATER, SEWAGE, ETC.)

Site Description #1

Grasses and Grasslike: Blue Gramma, Western Wheatgrass, Needle and Thread,
Bottlebrush Squirreltail, etc.
Shrubs and Trees: Pinyon Pine, Juniper, Sagebrush, Rabbitbrush
Soils: Loam, Clay Loam, Sandy Loam, Sandy Clay Loam

Preparation of Site

Prior to excavation of the pipeline trench, the top 6 inches of topsoil in right of way will be removed and saved for further use to reclaim pipeline right of way. The saved topsoil will be stockpiled far enough away from the trench and line of work so, as not be damaged. After the topsoil has been stockpiled, trenching, ripping, etc. can begin.

Restoration

Pipeline trench will be filled with excavated material, the impacted of affected area within the right of way will be smoothed evenly with the topography of the land. The saved topsoil will then be placed over smoothed right of way. Right of way will then be reseeded with the following seed mixture; TABLE A-1

TABLE A-1

Species	Cultivar	Lbs PLS/Acre
Western Wheatgrass	Arriba	3.0
Streambank Wheatgrass		2.0
Intermediate Wheatgrass	Oahe	3.0
Indian Rice Grass	Paloma	2.0
Blue Grama		2.0
Sideoats Grama		2.0
Little Bluestem		2.0
Rocky Mountain Penstemon		1.0
TOTAL POUNDS PLS PER ACRE		16.0

* PLS - Pure Live Seed

Site Description #2

Grasses and Grasslike: Western Wheatgrass, Blue Grama
Shrubs and Trees: Ponderosa Pine, Douglas fir, Blue Spruce
Soils: Loam, Clay, Clay Loam

Preparation of Site

Prior to excavation of the pipeline trench, the top 6 inches of topsoil in right of way will be removed and saved for further use to reclaim pipeline right of way. The saved topsoil will be stockpiled far enough away from the trench and line of work so, as not be damaged. After the topsoil has been stockpiled, trenching, ripping, etc. can begin.

Restoration

Pipeline trench will be filled with excavated material, right of way will be smoothed evenly with the topography of the land. The saved topsoil will then be placed over smoothed right of way. Right of way will then be reseeded with the following seed mixture; TABLE A-2

TABLE A-2

Species	Cultivar	Lbs PLS/Acre
Western Wheatgrass	Arriba	3.0
Streambank Wheatgrass		2.0
Intermediate Wheatgrass	Oahe	3.0
Indian Rice Grass	Paloma	2.0
Blue Grama		2.0
Sideoats Grama		2.0
Little Bluestem		2.0
Rocky Mountain Penstemon		1.0
TOTAL POUNDS PLS PER ACRE		16.0

Description #3 (ND-1)

Grasses and Grasslike: Alkali Sacaton, Galleta, Sand Dropseed, Threeawn
Shrubs and Trees: Fourwing Saltbush, Shadscale, Greasewood
Soils: Sand, Sandy Loam

Preparation of Site

Prior to excavation of the pipeline trench, top 6 inches of topsoil in right of way will be removed and saved for further use to reclaim pipeline right of way. The topsoil will be stockpiled far enough away from the trench and line of work so, as not be damaged. After the topsoil has been stockpiled, trenching, ripping, etc. can begin.

Restoration

Pipeline trench will be filled with excavated material, right of way will be smoothed evenly with the topography of the land. Topsoil will then be placed

TABLE B-1

Species		Lbs PLS/1000 sq.ft.
Western Wheatgrass	Arriba	1.0
Streambank Wheatgrass		1.0
Intermediate Wheatgrass	Oahe	1.0
Indian Rice Grass	Paloma	1.0
Blue Grama		1.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Preparation of Site (Minimal Impact)

Prior to excavation and installation of utility posts/poles with overhead powerlines, the top (6) six inches of topsoil around post/pole location will be removed and stockpiled for later use to reclaim area. Stockpiled topsoil will be kept away from worksite, at a distance where it will not be damaged or mixed in with fill material to stabilize utility post/pole. Since reclamation will focus 10 to 30 feet in diameter around the utility post/pole this plan will be used only for minimal impacts, where a the entire right of way is not affected by construction. -

Restoration

Upon installation of of the utility post/poles and overhead powerlines the affected area will be smoothed evenly to match the topography of the field. After smoothing the stockpiled topsoil will be placed evenly over affected or impacted area. The area will then hand seeded (Broadcasted) and manually raked into the soil. Do not leave seed without raking into soil, it will blow away, birds will feed on seed, etc. Specify to field staff the importance of manually raking to secure seed into the ground. Do not over rake and deep bury seed, this will result in low or no germination of the seed. Seed needs to be placed in the top one (1) inch of the soil. The following broadcast seed mixture will be used on this area; TABLE B-1

TABLE B-1

Species		Lbs PLS/100 sq.ft.
Western Wheatgrass	Arriba	1.0
Streambank Wheatgrass		1.0
Intermediate Wheatgrass	Oahe	1.0
Indian Rice Grass	Paloma	1.0
Blue Grama		1.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Site Description #2

Grasses and Grasslike: Western Wheatgrass, Blue Grama
Shrubs and Trees: Ponderosa Pine, Douglas fir, Blue Spruce
Soils: Loam, Clay, Clay Loam

Preparation of Site (Extensive Impact)

Prior to excavation to install overhead powerlines with utility poles, the top six (6) inches of topsoil in the right of way will be removed and stockpiled for further use to reclaim area. The topsoil will be stockpiled at an adequate distance away from worksite, to prevent usage until initial reclamation begins. Stockpiled topsoil will be specifically used for reclamation purposes, at no time will the topsoil be used as fill material to stabilize utility posts/poles.

Restoration

Utility poles with overhead powerlines have been installed, poles have been stabilized securely, area will be smooth to match the surrounding topography. After area has been smoothed, topsoil will be replaced and evenly spread over the right of way. The right of way will then be mechanically drilled seeded or under close supervision an (ATV) All Terrain Vehicles with seeding mount will be used. The right of way will be reseeded with the following seed mixture; TABLE B-1

TABLE B-1

Species		Lbs PLS/1000 sq.ft.
Western Wheatgrass	Arriba	1.0
Streambank Wheatgrass		1.0
Intermediate Wheatgrass	Oahe	1.0
Indian Rice Grass	Paloma	1.0
Blue Grama		1.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Preparation of Site (Minimal Impact)

Prior to excavation and installation of utility posts/poles with overhead powerlines, the top (6) six inches of topsoil around post/pole location will be removed and stockpiled for later use to reclaim area. Stockpiled topsoil will be kept away from worksite, at a distance where it will not be damaged or mixed in with fill material to stabilize utility post/pole. Since reclamation will focus 10 to 30 feet in diameter around the utility post/pole this plan will be used only for minimal impacts, where a the entire right of way is not affected by construction.

Restoration

Upon installation of of the utility post/poles and overhead powerlines the affected area will be smoothed evenly to match the topography of the field. After smoothing the stockpiled topsoil will be placed evenly over affected or impacted area. The area will then hand seeded (Broadcasted) and manually raked

into the soil. Do not leave seed without raking into soil, it will blow way, birds will feed on seed, etc. Specify to field staff the importance of manually raking to secure seed into the ground. Do not over rake and bury seed, this will result in low or no germination of the seed. Seed needs to be placed in the top inch of the soil. The following broadcast seed mixture will be used on this area; TABLE B-1

TABLE B-1

Species		Lbs PLS/1000 sq.ft.
Western Wheatgrass	Arriba	1.0
Streambank Wheatgrass	Sodar	1.0
Intermediate Wheatgrass	Oahe	1.0
Indian Rice Grass	Paloma	1.0
Blue Grama		1.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Description #3

Grasses and Grasslike: Alkali Sacaton, Galleta, Sand Dropseed, Threawn
 Shrubs and Trees: Fourwing Saltbush, Shadscale, Greasewood
 Soils: Sand, Sandy Loam

Preparation of Site (Extensive Impact)

Prior to excavation to install overhead powerlines with utility poles, the top six (6) inches of topsoil in the right of way will be removed and stockpiled for further use to reclaim area. The topsoil will be stockpiled at an adequate distance away from worksite, to prevent usage, until initial reclamation begins. Stockpiled topsoil will be specifically used for reclamation purposes, at no time will the topsoil be used as fill material to stabilize utility posts/poles.

Restoration

Utility poles with overhead powerlines have been installed, poles have been stabilized securely, area will be smooth to match the surrounding topography. After area has been smoothed, topsoil will be replaced and evenly spread over the right of way. The right of way will then be mechanically drilled seeded or under close supervision an (ATV) All Terrain Vehicles with seeding mount will be used. The right of way will be reseeded with the following seed mixture; TABLE B-2

TABLE B-2

Species		Lbs PLS/1000 sq.ft.
Alkali Sacaton		1.0
Indian Rice Grass	Paloma	1.0
Galleta	Viva	1.0
Western Wheatgrass	Arriba	2.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Preparation of Site (Minimal Impact)

Prior to excavation and installation of utility posts/poles with overhead powerlines, the top (6) six inches of topsoil around post/pole location will be removed and stockpiled for later use to reclaim area. Stockpiled topsoil will be kept away from worksite, at a distance where it will not be damaged or mixed in with fill material to stabilize utility post/pole. Since reclamation will focus 10 to 30 feet in diameter around the utility post/pole this plan will be used only for minimal impacts, where a the entire right of way is not affected by construction.

Restoration

Upon installation of of the utility post/poles and overhead powerlines the affected area will be smoothed evenly to match the topography of the field. After smoothing the stockpiled topsoil will be placed evenly over affected or impacted area. The area will then hand seeded (Broadcasted) and manually raked into the soil. Do not leave seed without raking into soil, it will blow way, birds will feed on seed, etc. Specify to field staff the importance of manually raking to secure seed into the ground. Do not over rake and bury seed, this will result in low or no germination of the seed. Seed needs to be placed in the top inch of the soil. The following broadcast seed mixture will be used on this area; TABLE B-2

TABLE B-2

Species		Lbs PLS/1000 sq.ft.
Alkali Sacaton		1.0
Indian Rice Grass	Paloma	1.0
Galleta	Viva	1.0
Western Wheatgrass	Arriba	3.0
TOTAL POUNDS PLS PER 1000 SQUARE FEET		5.0

Special/Other Requirements

Seed

All seed must be certified to ensure viability. Start with quality seed, to achieve quality plantings.

Seeding Dates

Seeding dates in Site Description #1 (WP-1) and Site Description #2 (AN-1) will begin June 15 to August 15. The Navajo Nation in these two sites receives high levels of precipitation after August 15. Our intention is to plant before our monsoon season so, planted seed will receive moisture for proper germination and growth.

Seeding dates for Site Description #3 (ND) will begin November 1 through December 15. Dormant seedings from November to mid December are recommended for Northern Desert, due to the extreme hot temperatures and low precipitation during the summer months. Northern Desert receives most of it's precipitation during the winter in the form of snow.

Mulch

Mulch not recommended, due to the high levels of grazing by livestock. Mulch would attract livestock to the area and possibly cause damage to the reseeding. Mulch is not quality feed for horses and sheep and could also cause them to become ill and die. To avoid livestock fatalities we advise not to mulch.

BLM Revegetation Plan

This revegetation plan was designed to meet the requirements presented in the U.S. Department of the Interior Bureau of Land Management Farmington Field Office (BLM FFO) Bare Soil Reclamation Procedures (BLM FFO 2013) for disturbance resulting from the construction of the Navajo–Gallup Water Supply (NGWS) Reaches 24,1 24.1 JAN, and 25.

The total area of potential disturbance for the pipeline and associated infrastructures would be approximately 176 acres (71.2 ha).

The revegetation plan will follow the protocol outlined in Vegetation Reclamation Procedure B for disturbances over 0.1 acre. The initial onsite pre-disturbance visit was conducted on March 5th, 2013. Representatives from BLM FFO, BLM Rio Puerco Field Office (RPFO), and the Bureau of Reclamation met with Ecosystem Management, Inc. (EMI) to survey the vegetation communities in the project area and discuss seed mixes and noxious weed issues. Revegetation on lands belonging to the BLM RPFO will also follow the Bare Soil Reclamation Procedures and resulting revegetation plan, as agreed to following the initial onsite visit and meeting with both field offices.

Site Description

Vegetation Communities

Sagebrush Community—The majority of the project area is classified as the Sagebrush Community (Figure 1). The dominant pre-disturbance vegetation consists of *Artemisia tridentata* (sagebrush), *Gutierrezia sarothrae* (broom snakeweed), and *Bouteloua gracilis* (blue grama). *G. sarothrae* is classified as an undesirable reclamation species in the Bare Soil Reclamation Procedures. *A. tridentata* is not recommended for re-vegetation because of its invasive nature in heavily grazed areas.

Pinyon–Juniper Community—The northern portion of Reach 24.1, the central and southern portions of Reach 25, and the eastern edge of 24.1 JAN, are classified as this community (Figure 1). The dominant vegetation consist of *Pinus edulis* (piñon pine), *Juniperus monosperma* (one-seeded juniper), and *A. tridentata*. The dominant grass is *B. gracilis*. All of this community is on the Navajo Nation. This community spans from approximately 280898E, 3999885N to 281485E, 3998174N (NAD83 UTM Zone 13N). *P. edulis* and *J. monosperma* occur on other portions of the project area, but they are scattered and sagebrush is the dominant shrub.

Reclamation

Seed Mixes

The **reduced-palatability seed mix** is recommended for the widespread sagebrush community and pinyon–juniper community. Most of the area is subject to grazing by cattle, horses, and sheep. It is unrealistic to fence off such a large disturbance area. Furthermore, fencing would interrupt current open ranges. Seed mixes for the community types are presented in Table 1.

Reclamation Techniques

Provided below are some procedures and methods that may to help achieve more effective reclamation success (taken from the BLM FFO community and seed-mix descriptions).

Soil Testing: Development of a soil-testing plan for evaluation of the results of topsoil handling and reclamation procedures related to re-vegetation may prove beneficial. Suggested soil testing may include some or all of the following: pH, electrical conductivity (EC), texture, topsoil depth and overall soil depth, carbonates (reactivity), organic matter (OM), and Sodium Absorption Ratio (SAR).

Topsoil Stripping, Storage, and Replacement: At a minimum, the upper six inches of topsoil should be stripped, following the removal of vegetation during construction. The stripped topsoil should be stored separately from subsoil or other excavated material and replaced prior to final seedbed preparation.

Seedbed Preparation: For cut-and-fill slopes, initial seedbed preparation should consist of backfilling and recontouring to achieve the configuration specified in the reclamation plan. Seedbed preparation for compacted areas should be ripped to a minimum depth of 18 inches, with a maximum furrow spacing of two feet. Where practicable, ripping should be conducted in two passes at perpendicular directions. Avoid leaving large clumps or clods. If this exists, disking should be conducted. Disking and seed drills should run perpendicular to slopes to provide terracing and prevent rapid runoff and erosion. Seedbed preparation is one of the most important steps for reclamation success. Following final contouring, the backfilled or ripped surfaces should be covered evenly with topsoil. Final seedbed preparation should consist of raking or harrowing to spread topsoil prior to seeding to promote a firm seedbed. A loose seedbed makes it impossible to control the depth of seeding because the tires and the planter sink into the soil. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

Planting Depth: Improper planting depth, particularly the planting of some species too deeply in “fluffy” soils, is one of the major impediments to reseeding success. The Truax™ seed drill or modified rangeland drills that allow for seeding species from different seed boxes at different planting depths have been used by other BLM offices to address this issue. Efforts should be taken to ensure that perennial grasses and shrubs are planted at the appropriate depth. Intermediate-sized seeds such as wheatgrasses and shrubs should be planted at a depth of 0.5 inch, larger seeds, such as *Achnatherum hymenoides* at one to two inches, and small seeds such as *Sporobolus airoides* and *S. cryptandrus*, should be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable with the equipment being used, the entire mix should be planted no deeper than 0.25 inch. Planting too shallow is generally better than planting too deep. A review of current research methods is recommended (e.g., USDA PLANTS, USDA Plant Materials Centers and Service Areas, and native seed companies).

Soil Amendments: Amending a soil is not the same thing as mulching, although many types of mulch also are used as amendments. A "soil amendment" is any material added to a soil to improve its physical properties, such as water retention, permeability, water infiltration, drainage, aeration, nutrition, and structure. Organic amendments include sphagnum peat, humate, wood chips, grass clippings, straw, compost, manure, biosolids, sawdust, and wood ash. Inorganic amendments include vermiculite, perlite, lime, gypsum, tire chunks, pea gravel, and sand.

Mulching: Mulch, where used, should be applied within 24 hours following completion of seeding. In areas of interim reclamation that used drill-seeding or broadcast-seeding/raking, mulch should consist of crimping certified weed-free straw or certified weed-free native grass hay into the soil. Hydromulching shall not be used. Mulch applications in extremely clayey soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may prove more beneficial. Mulch shall not be used on Tribal lands. Mulch shall only be used on BLM lands with prior authorization by Engineer.

Timing of Seeding: Precipitation is the principal input controlling biological processes in arid and semiarid regions. The pattern of soil moisture will have a great impact on the fate of seeding. Many

grasses species will germinate following significant moisture events that allow for deeper infiltration of soil moisture (4–12 inches deep). This moisture generally persists for several weeks and is available for seedling root growth and establishment. Grass species belong to one of two basic physiological types: cool season or warm season. Cool-season grasses have optimum growth temperatures of 70–75°F, with growth halting at around 40°F. Warm-season optimum temperatures occur at 85–95°F, with growth ceasing at about 55°F. The best time for seeding grass is at the beginning of the growing season. For cool-season grasses, there are two growing cycles: fall and spring. The best time to plant cool-season grasses is in late summer or early fall. For warm-season grasses, there is one growing season: summer. The best time to plant warm-season grass species is early spring or summer, with the onset of the monsoons, which typically begin early to mid-July.

The paragraph above provides the optimal timings of seeding for cool- and warm-season species that make up the seed mixes for of the eight desired plant communities for reclaiming disturbed areas. Experience in Farmington Field Office has shown that with adequate winter moisture, cool-season seeds planted in the late fall or early winter (before the ground is frozen) will germinate the following spring, setting the stage for germination of warm-season species in the mix later in the season.

Table 1. Seed mixes for community types. Species in bold are known to grow in the project area.

Common Name	Scientific Name	Variety	Season	Form	PLS lbs./acre*
Reduced Palatability seed mix (for Sagebrush and Pinyon–Juniper Communities)					
Rubber rabbitbrush	<i>Ericameria nauseosa</i>	VNS	NA	Shrub	2
Four-wing saltbush	<i>Atriplex canescens</i>	VNS	NA	Shrub	2
Fringed sage	<i>Artemisia frigida</i>	VNS	NA	Sub-shrub	2
Purple threeawn	<i>Aristida purpurea</i>	VNS	Warm	Bunch	3
Indian ricegrass	<i>Achnatherum hymenoides</i>	Paloma or Rimrock	Warm	Bunch	3.5
Blue grama	<i>Bouteloua gracilis</i>	Alma or Hachita	Warm	Sod	2
Sand dropseed†	<i>Sporobolus cryptandrus</i>	VNS	Warm	Bunch	0.25
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	VNS	Warm	Forb	0.25
Rocky Mountain beeplant	<i>Cleome serrulata</i>	VNS	Warm	Forb	0.25
Hairy false goldenaster	<i>Heterotheca villosa</i>	VNS	Warm	Forb	0.25

*Based on 60 pure live seeds (PLS) per square foot, drill seeded. Double this rate (120 PLS/ft.2) if broadcast or hydroseeded.

† *S. cryptandrus* is preferred over *S. airoides*, the common dropseed in the project area, because it is better suited for re-vegetation projects (S. Dykes, BLM FFO noxious weed coordinator, personal communication).

Additional Seeding Rates or Species: While minimum seed requirements have been provided by the BLM, it does not exclude proposals for increased seeding rates or additional species/varieties of plants to BLM for approval to achieve reclamation standards. Industry attaining an understanding of soil types, precipitation patterns, the climate, and vegetation/environment relationships could be very valuable.

Sterile Cover Crop Option: A straw mulch (see above) with no sterile cover nurse crop would be a better option than using a nurse crop in that the mulch would help preserve soil moisture in the upper 2–3 inches of soil, while nurse crops in arid environments can compete with native seedlings for moisture.

BLM Consultation: BLM is available provide consultations concerning fencing options to help minimize industry costs, should fencing be necessary to achieve reclamation success.

Challenges

Grazing Pressures

A challenge to successful re-vegetation of the project area is grazing pressure. Current BLM and Bureau of Indian Affairs grazing-allotment rates may not reflect the actual level of grazing pressure in the area. Feral horses are abundant in some places; sheep and cattle are also common. Fences are few across the project area. Large portions of the project area, particularly Reaches 24.1, 24.1 JAN, and 25, lack substantial grass cover, and the revegetated right-of-way may attract hungry animals from the surrounding areas. Indeed, a visual inspection of the project area suggests that heavy grazing, coupled with the recent years' drought, have had negative impacts on native vegetation. Moreover, it is impractical to fence off approximately 14 miles of ROW. For this reason, we have recommended the reduced-palatability seed mix for most of the area.

Noxious Weeds

Eliminating and preventing further invasion of noxious weeds is another challenge for revegetation.

The New Mexico Class B and Bureau of Indian Affairs (BIA) Navajo Region Class B noxious weed *Halogeton glomeratus* (halogeton) was found scattered throughout Reaches 24.1, 24.1 JAN, and 25 during the summer of 2011 (Figure 2). However, *H. glomeratus* along these reaches appeared less prevalent in 2012. These reaches closely follow a frequently used dirt road and intersect multiple disturbed areas (e.g., stock ponds, highly grazed areas).

H. glomeratus can be very problematic in disturbed areas where it may thrive from lack of competition. Following the protocol in the Bare Soil Reclamation Procedures Appendix D. Surface Use Plan of Operations Weed Management, the BLM FFO weed coordinator will review the noxious weed issues in the project area and submit onsite, specific requirements and instructions for weed treatments. The requirements and instructions will include the time frame of treatment, approved herbicides that may be used, required documentation to be submitted to the FFO after treatment, and any other site-specific instructions that may be applicable. Due to the seasonal nature of effective weed-treatment techniques, the operator may be required to treat the weeds before ground disturbance or may be required to treat the weeds after ground disturbance to avoid unreasonable delays.

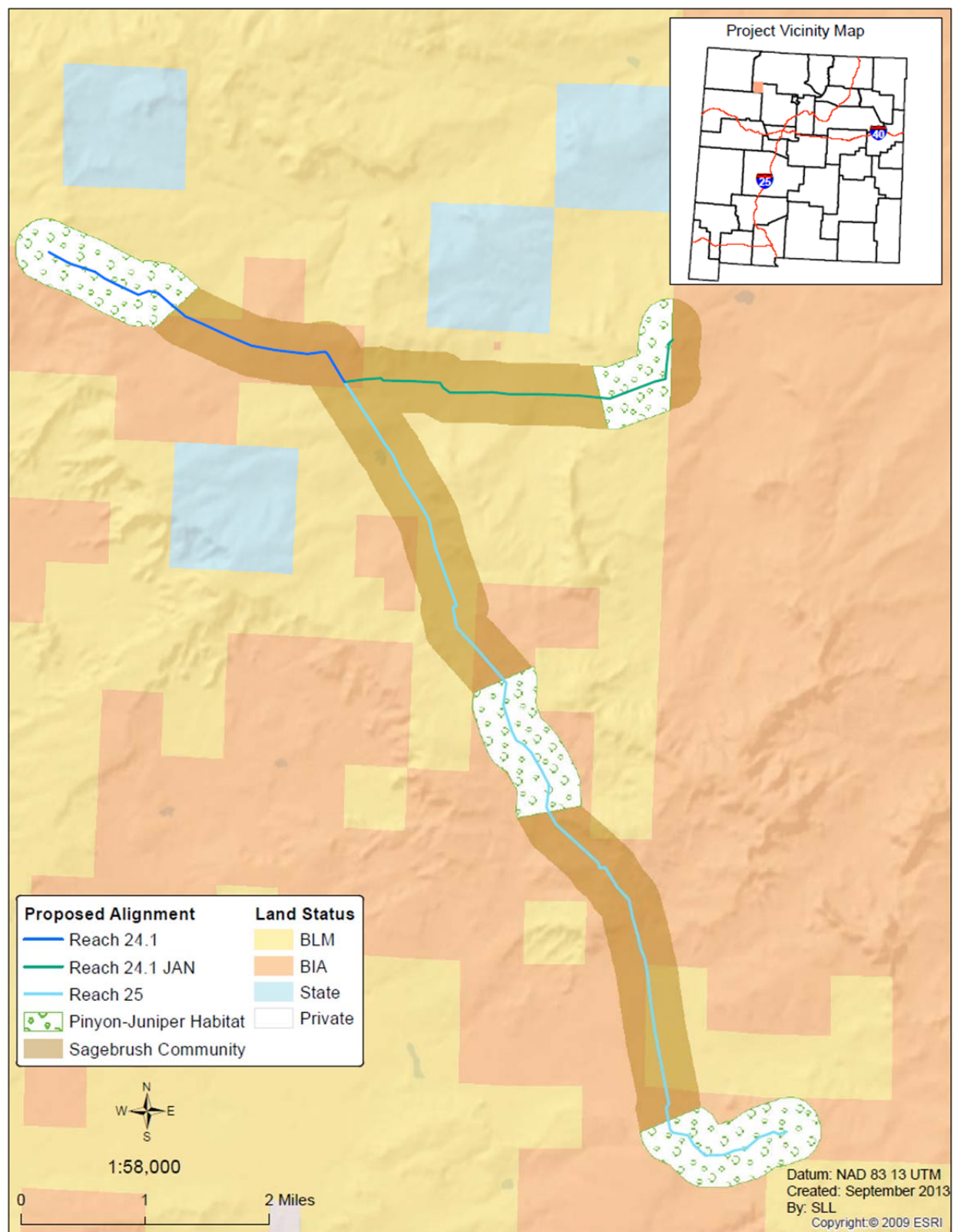


Figure 1. Vegetation communities for Reaches 24.1, 24.1 JAN, and 25.

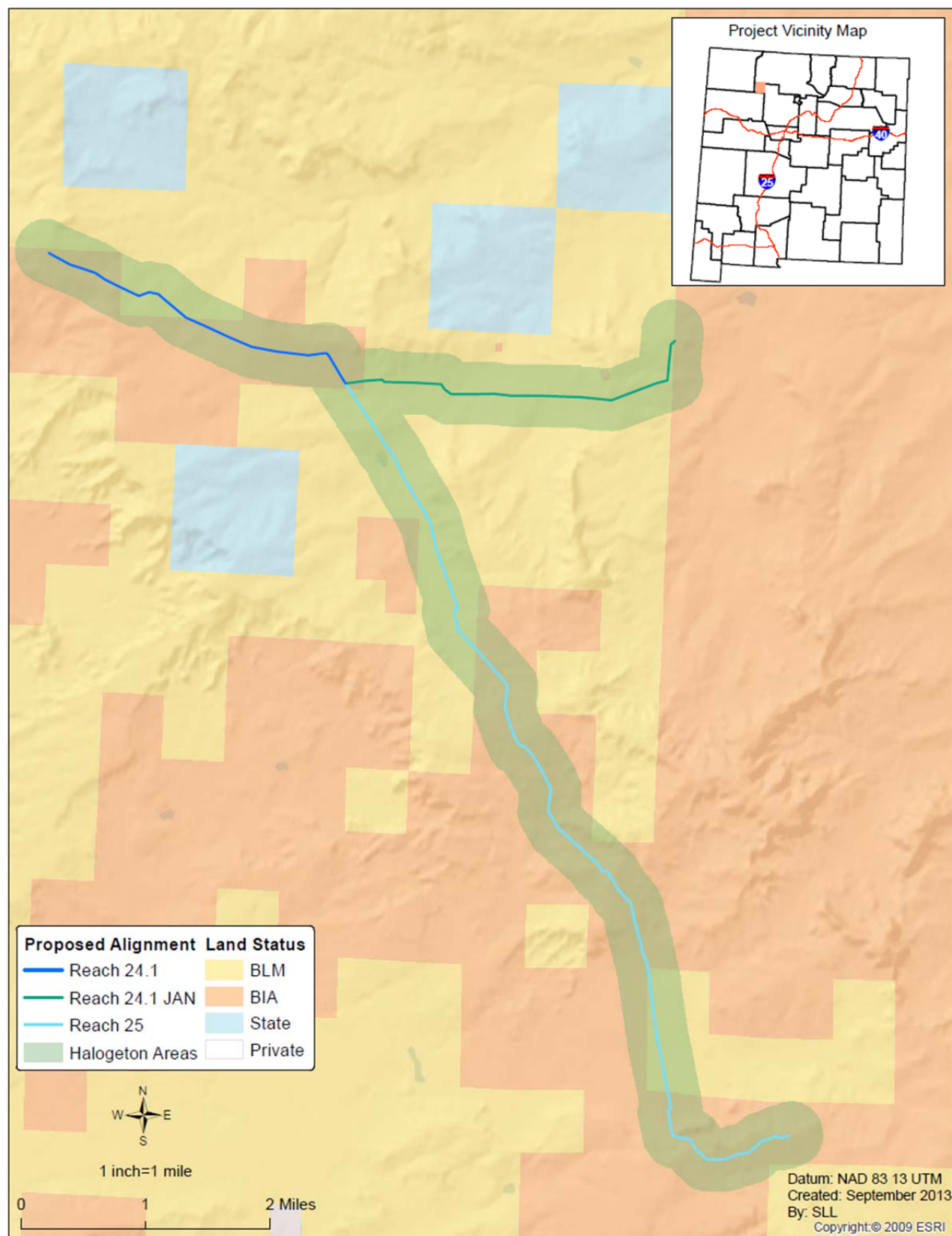


Figure 2. General location of noxious weeds for Reaches 24.1, 24.1 JAN, and 25.

APPENDIX D

Utility Companies Encroachment Agreement Applications and Guidelines (to be completed by the Contractor)

- **Encana Oil & Gas (USA) Inc.**
- **Jemez Mountains Electric Cooperative, Inc.**
- **Williams**
- **WPX Energy**



Encana Oil & Gas (USA) Inc.

TECHNICAL GUIDANCE DOCUMENT

Encroachment to Right-of-Ways

Document Description

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REVISION SUMMARY

Rev	Clause Affected	Description of Change

DRAFT

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1.0 INTRODUCTION

The purpose of this technical guidance document is to outline the standards and procedures to be followed when planning land use, development, or construction on or near easements or right-of-ways owned or operated by Encana Oil and Gas (USA) Inc. and its affiliates, subsidiaries and holdings (hereinafter called "Encana").

This document is intended for use by federal, state, city, county, and local planners, landowners, utility owners, developers, engineers, contractors, land surveyors, or anyone involved in the initial stages of land development near pipeline systems. If Encana is included in the initial planning stages of the project, delays can often be avoided and safe development practices near pipelines can be employed.

These specifications define the minimum standards of safety and quality for addressing encroachments to pipeline corridors and right-of-ways; however, each situation is evaluated on a case-by-case basis. Pipelines, oil and gas facilities, and their related right-of-ways are extremely valuable assets, and it is Encana's responsibility to maintain the value of its assets and protect its right-of-ways, while working with the communities in which it operates. Encana is also responsible for ensuring public safety and protecting the environment when activities are taking place near its facilities and pipelines.

Encana facilities include, but are not limited to, compressor stations, central delivery points (CDP's), booster stations, wellpads, pipelines, metering stations, pigging assembly sites, right-of-ways and easements. Government entities play a major role in regulating land use by means of comprehensive planning, zoning, and other regulations.

All activities and projects that are performed within Encana easements or right-of-ways or facilities operated by Encana are subject to formal review by Encana prior to the issuance of a Letter of No Objection or Encroachment Agreement, whichever is applicable. Depending on the scope of the project and its impact on Encana's facilities, additional engineering requirements and protective measures may also be required. Encana's policy is to comply with the standards and regulations set forth by the United States Department of Transportation Pipeline Safety Regulations (Title 49 CFR Parts 192 and 195), and applicable State regulations where Encana operates to assure the safety of the public and to protect its facilities.

This document is in accordance with Encana's practice for [Ground Disturbance](#)

Please become familiar with the contents of these encroachment specifications and their impact on your proposed project. If you have further questions or need assistance, please contact your local Encana office or the Land Department office at 370 17th Street, Suite 1700, Denver, CO 80202.

Encroachment Planning Checklist

This checklist summarizes the key steps in planning an encroachment on Encana easements or right-of-ways as described further in this document.

☒	Item	Activity
☐	1	Submit Encroachment Notification to local Encana office or to Encana Oil & Gas (USA) Inc. Attention: Land Department – Encroachments, San Juan Basin, 370 17th Street Suite 1700, Denver, CO, 80202. • 30 Days ahead for pipeline right-of-ways • 90 Days ahead for roadway, facility crossing plans
☐	2	Include with Encroachment Notification: • Legal Project Description • Vicinity map and project location. • Planned installation/modification Schedule • The Encana pipeline, facility location depicting depth and right-of-way width • Plan and Profile view of the encroachments and crossing locations. - o showing existing and proposed surface elevations - o elevation of the Encana pipeline, including cross-sections - o "Encana Pipeline" labeled on drawings including the pipe diameter size - o A standard warning statement displayed on all prints with the language: WARNING HIGH PRESSURE PIPELINE(S) Excavation and/or Construction Prohibited Without Written Permission From Encana Oil & Gas (USA) Inc.
☐	3	Review Encana Technical Guidance Document "Encroachment on Right-of-ways" for specific requirements that apply to your planned encroachment. Take note of special requirements for: • Road, rail and waterway crossings • Construction-Induced Vibrations • Seismic Surveying Operations • Blasting Operations
☐	4	Receive Letter of No Objection or fully-executed Encroachment Agreement from Encana (prior to field activities)
☐	5	Notify State's One-Call for location/depth verification
☐	6	Notify Encana Representative for location/depth verification and scheduling of construction observation
☐	7	Proceed with construction according to Encroachment Agreement
☐	8	At the conclusion of the project, As-built drawings should be provided to local Encana office or to Encana Oil & Gas (USA) Inc. Attention: Land Department –

	Encroachments, San Juan Basin, 370 17 th Street Suite 1700, Denver, CO, 80202

2.0 ENCROACHMENT REQUIREMENTS AND PROCEDURES

2.1 General Requirements

- 2.1.1 Submit an encroachment notification with detailed construction/development plans to your local Encana office or to Encana Oil & Gas (USA) Inc. Attention: Land Department – Encroachments, San Juan Basin, 370 17th Street Suite 1700, Denver, CO, 80202. Encana normally requires 30 days lead-time to review proposed development or construction plans for impacts to its facility and pipeline right-of-ways, and 90 days lead-time for roadway crossing plans, in case Encana pipelines or other Encana facilities require adjustments. When plans are submitted, the project description, pipeline conflict location(s) and depth of cover and/or clearance between facilities should be provided. A location map should also be submitted, showing the project site area including sufficient geographical references such as legal property lines and roadways. Please refer to Section 2.3 for details.
- 2.1.2 All costs associated with pipeline modification, replacement, lowering, and/or protection, including engineering evaluation and design, are to be paid by the encroaching entity, unless stated otherwise.
- 2.1.3 A Letter of No Objection, or a fully executed Encroachment Agreement, should be in place prior to any encroachment to the existing Encana right-of-way. An encroachment shall include, but not be limited to, any proposed or ongoing work activities or construction of aboveground and underground structures, roads, driveways, sidewalks, and parking areas, foreign utility crossings, electrical and communication cables, heavy equipment crossings, railroad and waterway crossings. Any disturbance to the existing pipeline right-of-way shall not occur without prior review by Encana. A disturbance shall include, but not be limited to, adding dirt, rock, or any other debris, or removing dirt, rock, or vegetation. All right-of-ways granted to third parties on Encana-owned land or easements shall contain relocation, indemnity and damage provisions in favor of Encana along with other conditions deemed necessary by Encana.
- 2.1.4 Surface grade or elevation changes and any additional cover on Encana pipeline is subject to approval of Encana. Existing soil cover on Encana pipeline cannot be removed without the consent of Encana. Any elevation changes should not prevent Encana from maintaining or operating its facilities along the right-of-way. Only clean fill will be allowed on Encana's right-of-way. Erosion control materials will be allowed.
- 2.1.5 Pipeline markers will be installed at all public roadway crossings, railroad crossings, waterway crossings, and in sufficient number along the right-of-way, as deemed necessary by Encana personnel, so that pipeline locations are accurately identified.

- 2.1.6 Guidelines and regulations outlined in governing industry codes and standards, as well as Encana policies, will be strictly adhered to.
- 2.1.7 Encana may require proof of current ownership in the form of a Title Commitment, Title Policy, or a copy of a recorded Warranty Deed.
- 2.1.8 Encana requires a copy of the Subdivision Plat, if applicable. If the plat has been recorded, Encana requires a copy indicating the book and the page of the recording.
- 2.1.9 No work shall be performed on Encana right-of-ways without prior consent of Encana. Encana reserves the right to have an on-site representative stationed along Encana right-of-way when work is being done. All construction activities are subject to the approval of the Encana on-site representative.

2.2 Project Plans

Project plans to be submitted for consideration will need to contain the following information:

- 2.2.1 Vicinity map and project location.
- 2.2.2 A legal description of the project location.
- 2.2.3 The Encana pipeline location, depth and right-of-way width clearly depicted.
- 2.2.4 The plan and profile view of the encroachments and crossing locations.
- 2.2.5 A profile view of the existing surface elevations, the proposed surface elevations and the elevation of the Encana pipeline, including cross-sections.
- 2.2.6 The pipeline labeled appropriately as "Encana Pipeline" including the pipe diameter size.
- 2.2.7 A standard warning statement will need to be conspicuously displayed on all prints that depict the pipeline(s). The statement will need to contain the following language:

WARNING
HIGH PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited Without Written Permission
From Encana Oil & Gas (USA) Inc.

Note: Submission of incomplete plans could delay the engineering impact study and/or result in increased costs.

- 2.2.8 Project plans shall be submitted both in electronic and hard copies. At the conclusion of the project, As-built drawings should be provided to local Encana office or to Encana Oil & Gas (USA) Inc. Attention: Land

Department – Encroachments, San Juan Basin, 370 17th Street Suite
1700, Denver, CO, 80202.

2.3 Pipeline Location and Depth Verification

- 2.3.1 As required by law, the encroaching party shall contact the appropriate State One Call Center to arrange for field staking of the approximate pipeline location and verification of pipeline depth by an Encana representative prior to any excavation activity.
- 2.3.2 An Encana representative is typically available within 48 hours to determine the approximate location and depth of the pipeline(s). No excavation on the right-of-way shall take place without approval from Encana and verification by Encana of the pipeline location and depth. To coordinate this activity, please contact our local Field Operations personnel at Encana office nearest to your proposed project.
- 2.3.3 The encroaching party or the developer shall perform for a site survey to accurately determine the location of the pipeline, determine pipeline depths, and accurately depict the location of the pipeline on the project plans. The encroaching party may perform pot holing (hydro excavation) or other means approved by Encana to physically locate the vertical and horizontal location of the existing underground Encana pipeline(s). To coordinate the site survey, please contact the local Encana office.

2.4 Excavation, Construction and Right-Of-Way Restrictions

- 2.4.1 Plans for excavation within the right-of-way must be approved by Encana prior to construction commencement.
- 2.4.2 Excavation operations shall be performed in accordance with appropriate State "One-Call" utility locating system requirements. No excavation shall occur in the vicinity of Encana facilities or within its right-of-ways until proper telephone notification has been made to the appropriate "One-Gall" system and an Encana representative is on-site to monitor excavation activities. Please refer to Section 2.18 for further details.
- 2.4.3 No equipment shall work directly over the pipeline. The encroaching party shall install temporary fencing or white line along Encana's right-of-way boundaries so that equipment will not inadvertently pass over the pipeline at any locations other than those established for crossing.
- 2.4.4 When excavating within the right-of-way, the encroaching party's excavator shall have a plate welded over the teeth of the excavator bucket, and the side cutters must be removed prior to excavation to help prevent pipeline damage.
- 2.4.5 Excavation equipment used to remove material from over or on each side of the pipeline must maintain a 'Tolerance Zone - a minimum of 24 inches from the outer edge of the pipe (in all directions) or one and one half times the anticipated utility diameter, whichever is greater. Instead of

Encana's tolerance zone, state tolerance zones required by regulation must be followed if they exceed the Encana tolerance zone (currently only Hawaii, North Carolina and South Carolina).

- 2.4.6 Mechanized equipment is not allowed within the tolerance zone. Any excavation taking place within 24 inches from the outer edge of the pipe (in all directions) or one and one half times the anticipated utility diameter, whichever is greater, shall be done by hand excavation only; air cutting and vacuum excavation are permitted with the approval of an Encana representative.
- 2.4.7 Excavators must work/dig parallel to Encana's pipeline facilities as practically possible.
- 2.4.8 If conditions require, the crossing party shall be directed by Encana to install sand bags or other suitable insulating material to maintain proper vertical clearance from the pipeline.
- 2.4.9 At any location where the pipeline is exposed, the crossing party shall provide Encana personnel the opportunity to inspect the pipeline condition, perform coating repair, if necessary, install cathodic protection test leads, and/or install underground warning tapes/mesh. The crossing party must also make the excavation area safe for entry by Encana personnel.
- 2.4.10 If a pipeline right-of-way width is not defined, Encana will clarify said width to reasonably allow for operation and maintenance of its lines and allow for construction of future pipelines as necessary. The Partial Release and Grant of Right-of-wayss will not result in the right-of-way being restricted to less than the following:
 - a. On a multi-line right-of-way, a strip of land extending a minimum of 25' outward from the centerline of each outermost pipeline, not to be less than a total minimum width of 100'.
 - b. On single-line right-of-way, a strip of land extending a minimum of 45' outward from the centerline of the pipeline not to be less than a total minimum width of 90'.
- 2.4.11 Multi-line. Above ground appurtenance, and ingress and egress rights will be retained.
- 2.4.12 Encana shall maintain the right of reasonable access across a landowner's property for maintenance and for the installation, operation and maintenance of utilities required for appurtenances.

2.5 Structures, Fencing and Landscaping

- 2.5.1 No buildings, houses, barns, garages, patios, swimming pools, reinforced concrete slabs, light poles, masonry, retaining walls or other permanent structures will be permitted on the right-of-way.

- 2.5.2 Large debris, such as old cars, trailers, scrap metal, boulders. etc. will not be permitted on the right-of-way. The right-of-way must be kept clear for maintenance and inspection.
- 2.5.3 Encana must approve fence crossings prior to any fence construction on or over an Encana pipeline and/or associated right-of-way. Fences may not be allowed to parallel the pipeline within associated right-of-way. Fence posts will not be allowed within 5 feet of the centerline of the pipeline. The landowner accepts full responsibility for any and all future damage to the fence in the event that Encana or its designee must access the pipeline and/or associated right-of-way to perform routine or emergency maintenance. No fences shall be constructed of any type material that obstructs the line of sight between the pipeline marker signs. No fencing shall prevent access by pipeline personnel at any time. Drive-through gates (14-foot-wide minimum) may be required to provide access to the right-of-way.
- 2.5.4 Trees are not permitted on the right-of-way. Mature shrubs with an untrimmed height exceeding 18" and/or obstructing the view of the marker posts are not permitted on the right-of-way.
- 2.5.5 Irrigation systems, field drain lines, and sidewalks will cross Encana pipelines at an angle as close to 90 degrees as possible, but not less than 45 degrees. No septic system lateral lines are permitted on the right-of-way.
- 2.5.6 Retaining walls are not permitted.
- 2.5.7 Surface grade or elevation changes require review by Encana, but in general, no cover may be removed from the right-of-way. No construction will be allowed that could result in the erosion of surface cover from the right-of-way.

2.6 Right-of-Way Clearing

- 2.6.1 Encana may at any time elect to remove obstructions, including, but not limited to, trees, brush, crops, and other vegetation from all or part of its right-of-way. Existing trees and/or shrubs may be cleared or side-trimmed by Encana at its sole discretion.

2.7 Change of Land Use

- 2.7.1 The landowner or tenant shall notify Encana if land use will be changed from pasture to cultivation, or if tilling depth will increase, or if terraces will be cut or re-cut. Encana will confirm the depth of cover over the pipeline, and then determine the appropriate action required to protect the pipeline.
- 2.7.2 Livestock ponds, lakes, retention ponds, or wetlands are not allowed on the pipeline right-of-way.
- 2.7.3 As the rural environment is altered and land developments are proposed, Encana prefers to amend the existing right-of-way agreement to reflect

the changing land use. Encana will work with developers to incorporate its existing right-of-way into the project design, including consent to the use of right-of-way as a "greenway" or open space area within the development.

2.8 Foreign Pipeline/Utility Crossings

- 2.8.1 All buried utility lines crossing Encana's right-of-way shall be installed in accordance with all applicable codes and requirements governing such installations.
- 2.8.2 All foreign lines shall cross Encana's right-of-way at an angle as close to 90 degrees as possible, but not less than 45 degrees. Parallel occupancy of an existing right-of-way requires permission from Encana.
- 2.8.3 Foreign pipelines and utilities should cross Encana pipelines with at least 24 inches of separation. Special authorization must be given in the event separation is less than 24 inches. Exceptions for farm field drainage tile may be made at the discretion of Encana supervisors. The preferred method is to have foreign lines cross below Encana pipelines.
- 2.8.4 Metallic pipe crossing Encana pipelines will be subject to a cathodic protection interference study. Should remediation be necessary, Encana will require full cooperation to ensure that the cathodic protection system is operating properly. If interference is detected, the encroaching party shall work diligently towards remediation. Foreign metallic pipe crossings shall be coated with a non-conductive coating for the full width of Encana's right-of-way.
- 2.8.5 Buried electrical cables shall be installed in accordance with the National Electrical Safety code and shall cross below Encana pipelines with minimum clearances of 24 inches for 0-440 volts; 30 inches for 441 volts to 22,000 volts; 36 inches for 22,001 to 40,000 volts; and 42 inches for 40,001 volts and above. All power cables shall be installed in nonmetallic or high impact PVC conduit. In the event the power cable crosses over an Encana pipeline, it shall be encased in a 6-inch envelope of red concrete for the full width of the right-of-way.
- 2.8.6 Communication cables {telephone, cable TV, and other data lines) shall cross below Encana pipelines with at least 24 inches of separation. Exceptions to this crossing below and clearance requirements will be reviewed on a case-by-case basis. Such cables shall be encased in a rigid, non-metallic conduit when crossing Encana pipelines.
- 2.8.7 Warning tape, in accordance with American Public Works Association (APWA) Uniform Color Code, shall be placed above the foreign utility, 12 inches below ground and shall extend at least 20 feet in such a manner that it would be unearthed before damage could result to the pipeline. Note: The placement of warning tape on each side of Encana's pipelines will not be required for utility cables that are installed using the directional drill or jacking method.

- 2.8.8 Utility poles and guy anchors shall not be placed within the pipeline right-of-way. Utility poles are permitted on the right-of-way edge, as long as they do not interfere with future maintenance. An Encroachment Agreement must be executed prior to installation if the pole is to be located on Encana's right-of-way.
- 2.8.9 A minimum of 30 feet of vertical clearance shall be maintained from the natural ground elevation above the Encana pipeline to the lowest point of all aerial utility crossings.

2.9 Roadways, Driveways, Sidewalks and Parking Lots

- 2.9.1 New roadways, driveways, sidewalks or parking lots shall not be constructed across the right-of-way without Encana's written approval. All plans for roadway, driveway and sidewalk crossings shall be designed to be as close to perpendicular to the pipeline as possible, but no less than 45 degrees.
- 2.9.2 Road construction may require adjustments to Encana pipelines for compliance with current pipeline construction standards and local, state, and federal regulations. It may also require a specific encroachment agreement from Encana and plans for such crossings shall be submitted 90 days prior to work commencement to allow time for project impact review by Encana.
- 2.9.3 Resurfacing of existing roadways or driveways may not require adjustments to Encana's pipeline if widening and/or changes to the depth of cover are not planned.
- 2.9.4 Prior to road construction, Encana must inspect the pipeline coating for integrity.
- 2.9.5 Paved surfaces will not be allowed to cross a pipeline bend.
- 2.9.6 Roadways, including driveways, shall be installed with a minimum compacted cover over the carrier pipe, as measured from the top of the roadway surface to the top of the pipe at the shallowest depth. Five feet for under roadway surface proper. Four feet under all other surfaces within the right-of-way or from the bottoms of ditches.
- 2.9.7 If the minimum coverage set forth in 2.9.6 cannot be provided, mechanical protection shall be installed, such as a 6" thick (minimum), steel-reinforced concrete slab along entire right-of-way width.
- 2.9.8 Encana prefers that cased roadway crossings no longer be installed. The carrier pipe under roadways will consist of extra strength material or heavier wall thickness to accommodate the additional longitudinal stress due to external loads. Casing pipe on an existing crossing may be extended to accommodate additional road surface or newly acquired right-of-way widths.

- 2.9.9 Sidewalks and parking lots will not be permitted without a fully executed Encroachment Agreement releasing Encana from any and all future damages to the sidewalks and parking lot due to pipeline maintenance and repair. A minimum cover of 4 feet from the top of the pipeline must be maintained at all points. All parking lots installed on the right-of-way shall consist of a flexible surface, such as asphalt. Concrete parking lots will be considered in some cases, if the area covered is limited to 50 feet or less. If approved, concrete surfaces shall include vent holes every 10 feet to allow for periodic leak surveys, and/or expansion joints every 10 feet along the pipeline right-of-way.
- 2.9.10 All parking lots planned within the Company's right-of-way are to incorporate green areas (areas where surface access is not impeded by improvements) over the pipeline such that no more than 50 feet, measured along the pipeline centerline, may be covered by the paved parking surface. Green areas constructed at said 50 feet intervals shall be a minimum of 20 feet wide, extending 10' on each side of the pipeline, for a minimum distance of 30 feet in length. Casing or heavy wall pipe may be required for all areas covered by the parking area if stress calculations so dictate. Above-ground vent posts and/or pipeline markers are to be installed as necessary.
- 2.9.11 A close interval cathodic protection survey and a coating inspection will be performed prior to the parking lot being installed to evaluate the integrity of the pipeline coating.

2.10 Railroad Crossings

- 2.10.1 Railroads shall be installed with a minimum compacted cover over the carrier pipe, as measured from the base of the rail to the top of the pipe at the shallowest depth. Six feet (cased) and ten feet (uncased) for under track structure proper. Four feet (cased) and six feet (uncased) under all other surfaces within the right-of-way or from the bottoms of ditches.
- 2.10.2 If the minimum coverage set forth in 2.10.1 cannot be provided, mechanical protection shall be installed, such as an 8" thick (minimum) steel-reinforced concrete slab along entire right-of-way width.
- 2.10.3 Rail beds shall not be allowed to cross a pipeline bend.
- 2.10.4 The project plans must satisfy and meet all the requirements of American Railway Engineering and Maintenance-of-Way Association (AREMA) Chapter 1 Roadway and Ballast, Part 5 Pipelines and API 1102 Steel Pipeline Crossing Railroad Standards.

2.11 Temporary Access Roads and Heavy Equipment Crossings

- 2.11.1 Plans for the construction of temporary access roads, field roads, and unimproved roads must be submitted to Encana for review and approval. The crossing party must provide adequate protection to maintain minimum cover requirements, to limit erosion, and to limit stress on the

pipeline. All temporary construction roads must meet stress requirements as determined by Encana.

- 2.11.2 Heavy Equipment Crossings - A representative from Encana must approve the crossing at any location where heavy equipment will be crossing the pipeline. The crossing party shall furnish the type, size, weight and maximum axle load for any vehicle or heavy equipment proposing to cross Encana's right-of-way. Encana must be notified a minimum of 3 working days prior to any work commencing so that stress calculations may be performed to ensure the safety of the crossing.
- 2.11.3 Heavy Equipment/Trucks carrying a maximum axle load of 15,000 lbs. may cross the right-of-way after Encana has confirmed a minimum cover of 4 feet over the pipeline.
- 2.11.4 An Encana representative will be present during construction of a temporary access road or heavy equipment crossing.
- 2.11.5 Construction equipment must cross the pipeline at approved crossing locations only where the cover has been checked by Encana and determined to be safe.
- 2.11.6 Additional cover and/or stabilization (timber mats, steel plate, crushed rock, concrete slab, etc.) may be required, depending on weather, line depth, and type of vehicles proposing to cross the pipeline.

2.12 Waterway Crossings

- 2.12.1 Rivers, streams, creeks, canals, and drainage ditches crossing over pipelines shall meet or exceed the minimum depth of cover for compliance with current pipeline construction standards and federal, state, and local regulations.
- 2.12.2 Streams or ditches must have a minimum of 4 feet of cover from the top of the pipe to the bottom of the stream or ditch. Streams and ditches having less than 4 feet of cover must be lined using an approved method and material.
- 2.12.3 River, creeks and canals shall have a minimum cover of 5 feet, as measured from the top of the pipeline to the waterway bottom/flowline.
- 2.12.4 Crossings should be at an angle as close to 90 degrees to Encana pipelines as possible, but not less than 45 degrees.
- 2.12.5 Pipelines shall have sufficient weight added to create negative buoyancy, if necessary. This can be achieved by using concrete coating, bolt-on concrete anchors, or mechanical auger anchors.
- 2.12.6 Encana may require that erosion control measures be placed over the pipeline right-of-way to protect the pipeline and control erosion of the pipeline right-of-way.

2.13 Logging Operations

- 2.13.1 No trees shall be felled on, over, or across Encana's right-of-way. No trees or timber shall be stored on said right-of-way. No trees shall be trucked or skidded over or down the right-of-way without first gaining the approval from Encana.
- 2.13.2 The same requirements for heavy equipment crossings as defined in Sections 2.9, 2.10 and 2.11 above shall be followed for any logging operations proposing to work on Encana's right-of-way.

2.14 Construction-Induced Vibrations

- 2.14.1 Construction activities that generate ground vibrations, including pile driving, sheet driving, soil compaction work, jack hammering, or ramming, shall be reviewed by Encana on a case-by-case basis.
- 2.14.2 If the encroaching party anticipates an activity within 250 feet of the pipeline, then continuous testing monitored by a seismograph located directly over the pipeline at its closest point to the activity must be conducted. The encroaching party shall provide, at their expense, the monitoring service, which must be approved by Encana.
- 2.14.3 The encroaching party shall determine and limit the maximum peak force allowed under continuous seismographic vibration monitoring such that the peak particle velocity will not exceed 2.0 inches per second.

2.15 Seismic Surveying Operations

- 2.15.1 Third Party planning to conduct seismic surveying operations within 300 feet of Encana right-of-way to explore the presence of oil and gas, geothermal energy and other mineral deposits underneath the earth surface shall coordinate with local Encana office. Energy sources to generate seismic vibrations generally include dynamites (Shot Hole Drilling), seismic vibrators (Vibroseis trucks) or thumper truck (weight-drop truck).
- 2.15.2 Seismic operations within 300 feet of the pipeline right-of-way:
- a. The Third Party must submit a seismic survey plan to Encana for review and approval.
 - b. Seismic survey plans. When using Vibroseis trucks to radiate ground vibrations, must include information on soil conditions and depth of exploration, the anticipated number and type of vibrations, type and weight of vehicle, and peak force of equipment.
 - c. The Third Party shall also make arrangements for an Encana On-Site Inspector to be present to witness the seismic vibrating operations.
- 2.15.3 Seismic operations within 100 feet of the pipeline right-of-way:

- a. Seismic vibrations shall be monitored by a wireline of geophones or detectors located directly over the pipeline at its closest point to the vibrator(s) and measured and recorded in a Seismograph device. The Third Party shall provide, at their expense a monitoring service contractor which must be approved by Encana.
- b. The Third Party shall determine and limit the maximum peak force allowed under continuous seismographic vibration monitoring such that the peak particle velocity will not exceed 2.0 inches per second.
- c. Seismic surveys shall not be conducted closer than 25 feet to the pipeline.
- d. At Encana's request, the Third Party shall install sheet piling and/or open trench channels to protect the pipeline during seismic vibrating operations.

2.15.4 In some areas where Vibroseis trucks access is limited due to topography, it may become necessary to generate seismic vibrations by using explosive charges. In case of seismic survey by dynamites, the blasting operations shall be in accordance with federal, state, and local governing agencies and Encana Blasting Specification EPCO.STD.9005.

2.16 Blasting Operations

2.16.1 Any outside party proposing blasting operations within 250 feet of the pipeline right-of-way, shall submit a comprehensive blasting plan to Encana for review and approval. For safety and preservation of Encana assets, all blasting operations shall be in accordance with federal, state, and local governing agencies and Encana Blasting Specification EPCO.STD.9005.

2.17 Deviations and Exceptions

2.17.1 Where special circumstances dictate, deviation from these requirements must be formally approved by Encana in writing prior to commencement of any excavation, directional drilling, boring, tunneling or other construction activity that may impact the pipeline. Any such deviation must be explained, documented and provided to Encana for review and approval.

2.18 One-Call Numbers/National "Call Before You Dig"

2.18.1 Encana pipeline systems operate at very high pressures. For safety reasons, qualified company personnel or qualified company representatives need to be on-site, as frequently as necessary, to verify the integrity of the pipeline(s) while work is being performed on company's right-of-ways. No excavation shall occur in the vicinity of Encana facilities or within its right-of-ways until proper telephone notification has been made to the appropriate "One-Call" system and an Encana representative is on-site to monitor excavation activities. All of the

states in which Encana conducts pipeline operations have "OneCall" laws, which require 48 to 72 hour notification prior to any construction or maintenance activities across, on, or in the vicinity of certain facilities.

- 2.18.2 The Secretary of the Department of Transportation has prescribed minimum requirements for establishing and operating a One-Call Notification System for a State to adopt that will notify an operator of a pipeline facility of activity in the vicinity of the facility that could threaten the safety of the facility. Upon notification by an operator of a damage prevention program or by a person planning to carry out demolition, excavation, tunneling, or construction in the vicinity of a pipeline facility, the operator of the facility shall mark accurately, in a reasonable and timely manner, the location of the pipeline facility in the vicinity of the demolition, excavation, tunneling, or construction.
- 2.18.3 The penalty for not using One-Call Notification System or not heeding location information or mailings could result in fine or imprisonment up to five (5) years, or both. The Federally-established phone number for One-Call notification, valid in all 50 States, is **811**.

Jemez Mountains

Electric Cooperative, Inc.

PO Box 10 Cuba, NM 87013

Ph#(575)289-3241 Fax#(575)289-0103

e-mail: sbinion@jemezcoop.org

March 3, 2014

Souder Miller & Associates

Attn: Andrew Robertson

3451 Candelaria Road NE, Suit D

Albuquerque, NM 87107-1948

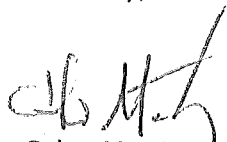
RE: Encroachment Letter of Agreement/Notice of Intent for Utility Line Crossing for the Navajo Gallup Water Supply Project

Dear Mr. Robertson,

Permission to cross Jemez Mountains Electric Cooperative, Inc. ROW is granted provided that Jemez Mountains Electric Cooperative Inc., Employees and Members are held harmless on any and all liabilities concerning reaches 24.1 and 25 of the Navajo Gallup Water Supply Project. As part of this project the contractor will be required to contact NM One Call at least 48 hours prior to crossing any existing utility line.

If further information is required please feel free to contact me. I can be reached at 575/289-3241 or 505-269-5966 or you can e-mail me at cemartinez@yahoo.com. In case of an emergency please call 1-877-753-0095.

Sincerely,



Celso Martinez

District Operations Supervisor



July 3, 2013

Via email and certified mail

Attention: Celso Martinez
Operations Supervisor
Jemez Mountains Electric Cooperative, Inc
P.O. Box 10
Cuba, New Mexico 87013

**Re: Encroachment Letter of Agreement /Notice of Intent for Utility Line Crossing
for the Eastern Navajo Water Pipeline, Reach 24.1 and Reach 25 Cutter Lateral Project**

Dear Mr. Martinez,

Souder, Miller and Associates (SMA) has been contracted by the Navajo Nation for engineering services on Reach 24.1 and 25 of the Navajo Gallup Water Supply Project. The project includes an 11 mile long 14 inch diameter PVC waterline which travels for the most part parallel to Navajo Nation Route 407 and BIA Route N474, located within Sandoval County.

The waterline project requires various utility crossings, some of which are electric lines owned and operated by Jemez Mountains Electric Cooperative, Inc (JMEC). Attached is a drawing of the project area showing the waterline's alignment, and a table listing all the approximate locations where the pipeline will cross under JMEC lines. The table also indicates whether each JMEC electric line is a single-phase or a three-phase line.

SMA hereby notifies Jemez Mountains Electric Cooperative, Inc. via this letter of the project's need to cross/encroach on your company's electric line at the location as shown on the attached figure. Please review the figure and table to confirm that the crossing locations are accurate. Please notify us if there are other utilities owned by your company along the proposed project alignment that we have not included within this letter. Likewise, we appreciate you notifying us if any of the electric lines we have identified are not in fact JMEC lines.

On April 4, 2013 Ryan Biehl and Tory Tadano of SMA met with Francisco Sanchez of JMEC in the field to review the crossing locations and no issues were noted.

If JMEC requires an encroachment agreement or crossing permit, please provide one and we will complete and submit the required documents in a timely manner. Please provide any special crossing requirements needed prior to beginning the construction. As part of this project, the contractor will be required to contact NM One Call at least 48 hours prior to crossing any existing utility line.



Please return a signed copy of this letter to acknowledge receipt and acceptance of this proposed encroachment on your company's electric line. It will be understood if we do not receive any correspondence within 30 days of the date of this letter, that all terms and conditions contained herein are acceptable to your company and we will proceed in accordance with these terms and conditions.

Please advise if you have any questions or need any additional information.

Sincerely,
Souder, Miller & Associates

A handwritten signature in dark ink, appearing to read 'Andrew Robertson', written over a horizontal line.

Andrew Robertson, P.E.
Vice President

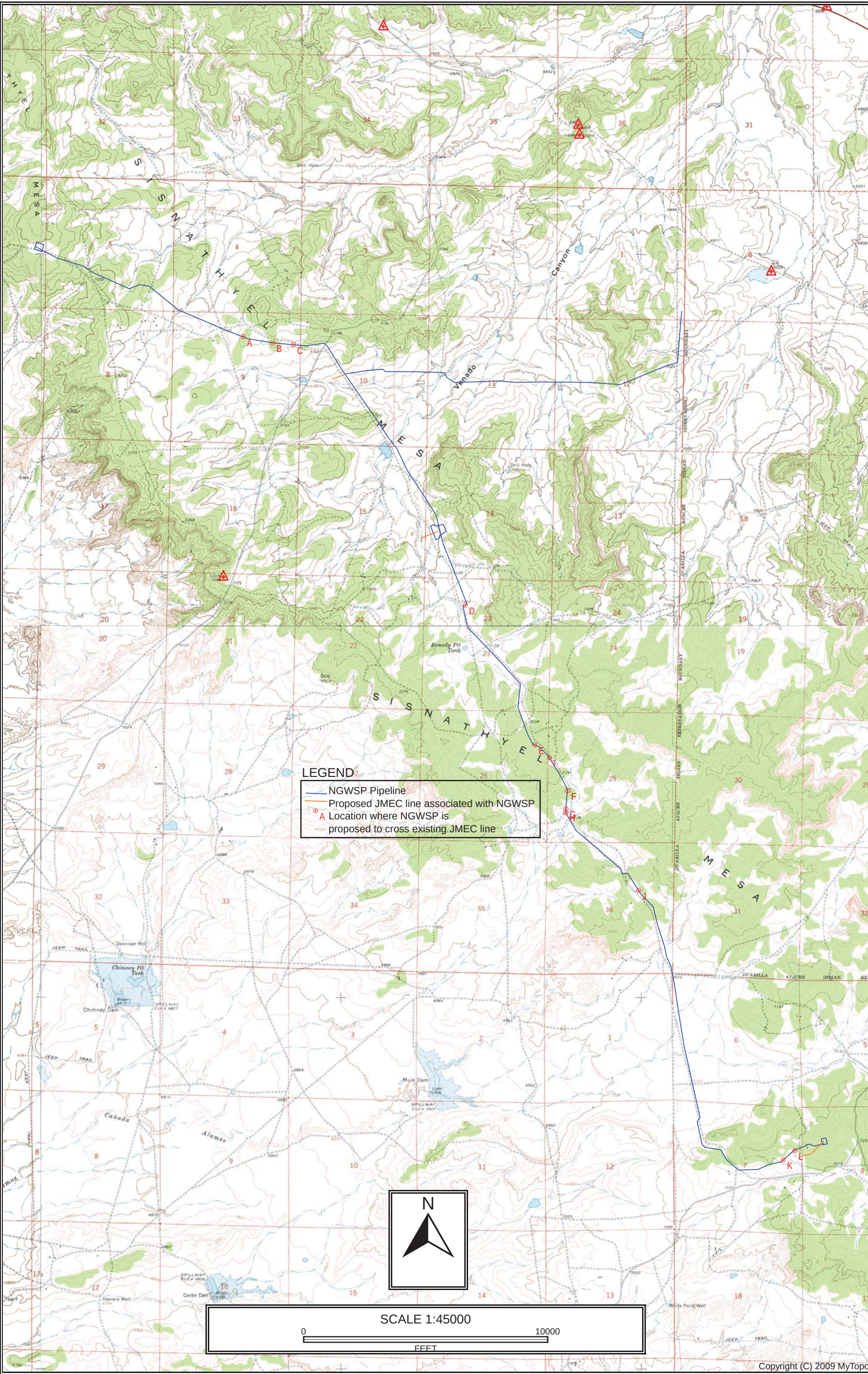
Enclosures: Map showing NGWSP waterline with approximate crossing locations.
Table of approximate coordinates for crossing locations.

Company Acknowledgement:

I, the undersigned, have read and understand all conditions and terms stated herein and hereby agree to the encroachment described. No additional encroachment agreement or crossing permit is required.

A handwritten signature in dark ink, appearing to read 'Chris Martin', written over a horizontal line.

Signature of Authorized Representative of Jemez Mountains Electric Cooperative



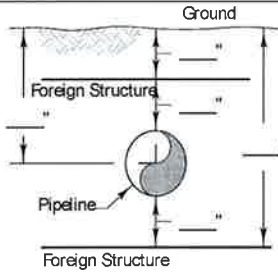
Map of NGWSP Reaches 24.1 and 25 Alignment Showing Approximate Locations of JMEC Line Crossings

**Approximate Crossing Locations of NGWSP Reach 24.1 &
Reach 25 on JMEC Utility Lines**

Crossing ID	Latitude (degrees)	Longitude (degrees)	Electric Line Phase
A	36.15742	107.47255	single
B	36.15676	107.46844	single
C	36.15653	107.46557	single
D	36.12735	107.44167	three
E	36.11165	107.43202	three
F	36.10653	107.42748	single
G	36.10450	107.42769	three
H	36.10407	107.42773	single
I	36.11023	107.42999	single
J	36.09535	107.41760	three
K	36.06511	107.39753	unknown
L	36.06613	107.39595	single

02-LEG-1035 - ENCROACHMENT AGREEMENT (SHORT FORM)



This Agreement is granted subject to the Terms of Agreement and the Guidelines found on the reverse side.			
Pipeline Company Name _____			Date _____
Pipeline Identification/Section Number _____			Time _____
Legal Description (Section, Township, Range, Lot, Block, Abstract, Address) _____			County _____
State _____	Alignment Sheet or other Drawing Number _____	Mile Post (ESN) _____	GPS Coordinates _____
Tract Number _____			
Type of Encroachment: ☐ Roadway ☐ Orway ☐ Parking Lot ☐ Access Road ☐ Equipment Crossing ☐ Gas Line ☐ Water Line ☐ Telephone Cable ☐ Fiber Optic Cable ☐ Drain Tile ☐ Television Cable ☐ Electric Line ☐ Liquid Hydrocarbon Line ☐ Other _____ ☐ Government			
PREVIOUS PIPELINE LOCATE ACTIVITIES			
Locate Ticket Number/Date _____		Person Who Called _____	Person Dispatched _____
☐ Flagged/Staked Line ☐ Painted Line		☐ Probed Line for Depth ☐ Gave Locator Depth	☐ Marked C.P. Cables ☐ Exposed Line
☐ Witnessed Excavation ☐ Other _____			
Remarks or Instructions Given: _____			
Follow-up Action: ☐ Yes ☐ No If yes, explain: _____			
ENCROACHING PARTY/CONTACT INFORMATION			
Obtain a copy of the agreement that allows the encroachment. For example, road crossing permit, easement granted by landowner.			
Person met at Location: ☐ Landowner ☐ Contractor ☐ Encroaching Party ☐ Other _____			
Name _____		Title _____	Company _____
Address _____		City _____	State _____ Zip _____ Phone () _____
Encroaching Party:			
Name _____		Title _____	Company _____
Address _____		City _____	State _____ Zip _____ Phone () _____
STRUCTURE AND/OR ENCROACHMENT CROSSING DATA			
Warning! No Excavation, Using Powered Equipment, Allowed Within 2 feet of Pipeline, See 9.01-ADM-30-Excavating and Trenching Using Powered Equipment.			
ENCROACHMENT DATA ESN = Engineering Station Number Obtained from Alignment Sheet 1. Reference Point: _____ (Nearest C/L road, fence, etc.) 2. Reference Point ESN: _____ 3. Distance and Direction from Reference Point to Foreign Crossing: _____ Ft. (As measured along P/L) ☐ North ☐ South ☐ East ☐ West 4. Calculated ESN of Crossing: _____ (Add/subtract distance to/from Reference Point ESN) Size of Foreign Facility: _____ Encased: ☐ Yes ☐ No Size _____ Casing Type: ☐ Steel ☐ Plastic ☐ Other _____ Coating Type: _____	SKETCH OF ENCROACHMENT/PIPELINE  Draw North Arrow PIPELINE Note: Label all pipelines shown	PIPELINE DATA  Coating Type: _____ Coating Condition: ☐ Well bonded ☐ Partially bonded ☐ Disbonded P/S at ground level: _____ P/S in the ditch: _____ Pipeline Condition: ☐ Like new ☐ Surface Rust ☐ Minor Pitting ☐ Moderate Pitting ☐ Severe Pitting	
TERMS OF AGREEMENT			
1. The Agreement herein granted is subject to the existing easement rights of the Company. 2. The Encroaching Party will construct, maintain, relocate and remove the Agreement item at no expense to the Company. 3. The Encroaching Party must notify the Company at least 48 hours before work commences on or near the Company's easement. No work shall take place without the Company's staff being given the opportunity to be present at the site. 4. The Encroaching Party shall supply such plans, surveys and drawings as the Company deems necessary. 5. The Agreement shall be revocable by the Company upon notice to the Encroaching Party and/or the owner of records. The terms and conditions of this Agreement shall constitute covenants running with the land and be binding upon and inure to the benefits of the parties hereto, their successors and assigns. 6. The Encroaching Party agrees to indemnify, save and hold harmless the Company, its shareholders and their directors and employees, and the Company's subcontractors against any and all claims for damages, injury or death arising by reason of the encroachment, its use and maintenance unless caused by the sole negligence of the Company. 7. Encroaching Party agrees that the Company may remove, at the Encroaching Party's expense, any Agreement items or portion thereof, if in the Company's judgment, it is reasonably necessary to do so in order to operate, construct, alter, maintain, repair or replace its facilities located within the easement, or in order to construct or install new facilities. Should the Company remove any such Agreement items, or portions thereof, the Company will not be liable to the Encroaching Party or the Encroaching Party's successors or assigns for any damages resulting by reason of such removal. 8. The Company reserves the right to alter the specifications of this Agreement at any time, provided that you will be given a reasonable amount of time to comply, at your expense, with any new requirements imposed after the construction of the Agreement items. 9. All Agreement items shall be constructed and maintained to comply with all laws and industry standards. 10. The permission herein granted by the Company is limited to its interest and authority in the subject land and the Encroaching Party acknowledges the possible obligation to obtain the required permission from other parties of interest or the Government. The Company permits this item only to the extent it may do so by law.			
Your Company Contact: _____		Phone: () _____	
In the Event of an Emergency: () _____			
Company _____ Company Representative - Signature _____ Printed Name		I acknowledge that I have reviewed the Conditions, Terms and Guidelines of this Agreement with an Authorized Company Representative and agree to be bound by the provisions herein. Encroaching Party - Signature _____ Printed Name _____ I acknowledge that I have reviewed the Conditions, Terms and Guidelines of this Agreement with an Authorized Company Representative and agree to be bound by the provisions in performance of my work. Person Met at Location, Authorized by Encroaching Party - Signature _____ Printed Name _____	
Associated Procedures			
9.01-ADM-030 - Excavating and Trenching Using Powered Equipment 7.08-ADM-008 - Encroachment Guidelines			

Distribution: Original - Coordinator of Pipeline Integrity Records- One Williams Center, WRC2, Tulsa, OK 74172
 Copy - Area Office
 Copy - ROW Local Process Owner
 Copy - Encroaching Entity

Retention: Life of the Pipeline

Effective Date: 10/10/12
 Rev 4

ENCROACHMENT GUIDELINES

1. FENCES

Fences may not be allowed to parallel the pipeline(s) within associated right-of-way. Fence posts will not be allowed within 5 feet of the centerline of the pipeline(s). The landowner accepts full responsibility for future damage to the fence in the event access to the pipeline(s) is required.

2. PIPELINE COVER

Any change in the surface grade or elevation on or over the pipeline and easement must be approved by the Company in advance.

3. STREETS, ROADS, PRIVATE DRIVEWAYS, PARKING LOTS, ACCESS ROADS, EQUIPMENT CROSSINGS

A. The pipeline must be covered with a minimum of 4 feet in the center of the roadway and 3 feet in the drainage ditches. The depth of cover shall be maintained across the full width of the easement and shall be measured from top-of-pipe to bottom of road surface.

Note: If the pipeline to be crossed is used to transport a highly volatile liquid, the minimum cover in drainage ditches must be 4 feet.

B. Roads shall not run lengthwise within the easement and must cross such that the angle measured between the proposed road and the easement is not less than 45 degrees.

C. An Authorized Company Representative shall have the opportunity to inspect its underground pipeline prior to the start of any construction.

D. An "engineering impact study" must be performed to ensure the additional longitudinal stress due to external loads is acceptable.

E. Equipment such as construction, logging, etc., must cross the pipeline(s) only at approved crossing locations where the cover and longitudinal stresses have been checked by the Company and determined adequate to meet load-bearing requirements.

F. Warning tape, McMaster-Carr No. 8288T12 or equivalent shall be placed under the paved area along the route of each pipeline.

4. OPEN WATERWAYS

Open waterways and drainage ditches must have a minimum of 5 feet of cover from the top of the pipeline to the bottom of the ditch. Larger open waterways are defined as streams, rivers or canals and are considered on an individual basis.

5. EXCAVATION

A. Plans for excavation and shoring on the easement must be approved by the Company prior to commencing any work. No excavation may occur within Company's easement without a Company Representative present. Excavation **within 2.0 feet of the outside (OD) of the pipeline** shall be by hand and only in the presence of a Company Representative. Plans must include locating, marking the pipeline centerline, and staking out two (2) feet from the edge of the pipeline per 9.01-ADM-030 - Excavating and Trenching Using Powered Equipment.doc. Excavation closer than **2 feet** to the pipeline shall be done by hand and only in the presence of a Company authorized representative.

B. Any plowing or ripping of soil on the easement, including agricultural, at depths greater than **1 foot** shall not be performed without the Company's prior approval and observation.

C. When a backhoe is used, the bucket teeth shall be curled under each time it is brought back into the excavation to reduce the chance of teeth contact to the pipe.

6. FOREIGN LINE CROSSINGS

A. General Requirements

1. An authorized Company Representative must be on-site during all excavation and cleanup work performed on the easement.

2. All buried lines crossing the easement must cross so that the angle measured between the proposed buried line and easement is not less than **45 degrees**.

3. For parallel pipeline/utility encroachments, if feasible, the foreign pipeline/utility should be located at the edge of the existing right-of-way but with no less than 15 feet of horizontal separation.

4. All buried lines crossing the pipeline shall maintain a minimum vertical separation of **24 inches**, with the same elevation depth carried across the entire easement.

5. As a protective measure for buried lines crossing Company easements, vinyl direct buried warning tape, McMaster-Carr No. 8288T12 or equal, shall be placed above the crossing line for the entire width of the pipeline easement.

6. Surface markers shall be installed by the Encroaching Party on each side of the utility crossing and shall exhibit the depth of the crossing.

B. Communication And Electrical Lines (Telephone, TV, Etc.)

1. Such lines shall be installed in accordance with guidelines of the National Electric Safety Code (public utility power and light companies) or the National Electric Code (private power and light companies).

2. In the event a high-voltage electrical cable crosses over a Company Pipeline(s), the cable(s) shall be encased in rigid metallic or nonmetallic conduit across the full width of the right-of-way, but not less than 5 feet from the edge of the pipeline in each direction. The conduit will then be encased in a minimum 3" circumference of red concrete 3' on each side and over the Company Pipeline. Special authorization must be given for separation less than that listed above.

3. Such lines shall have a minimum vertical separation from the Company Pipeline(s) as follows: **24 inches** for 0 to 600 volts; **30 inches** for 601 to 22,000 volts; **36 inches** for 22,001 to 40,000 volts; and **42 inches** for 41,001 and above.

4. If the power cable has an exposed concentric neutral, a test point from the ground wire shall be installed by the power company.

C. Sewer And Water Lines

1. These shall meet all above General Requirements of Buried Line Crossings except metallic conduit.

2. Sewer line crossings are limited to main or tight lines only. Distribution lines, perforated or non-enclosed, are not permitted.

D. Subsurface Drain Tile

These shall meet the provisions of Paragraph 6.A. of General Requirements of Foreign Line Crossings.

E. Metallic Pipe Crossings

The Company and the Encroaching Party shall jointly conduct a cathodic protection interference survey. The Company shall determine any modifications needed and the Encroaching Party will cooperate with the Company in the install installation of the modifications.

7. ABOVEGROUND CROSSINGS

Utility poles and guys shall maintain a minimum of **20 feet** distance from any pipeline.

Note: These specifications are subject to change. Please contact the Company prior to commencing your activity.

WPX Energy Line Crossings

Note: The following information was obtained by the Engineer to assist the Contractor make contact with WPX Energy, however, it is the Contractor's responsibility to follow up with WPX Energy to verify and comply with all WPX Energy line crossing requirements. See Sheet DT-4 for additional information pertaining to WPX line crossings.

Procedure:

1. Contractor shall contact WPX Energy 30 days prior to doing any work in the WPX Energy right of way. WPX requires no encroachment agreement or other documentation be completed; WPX Energy will clarify any additional requirements at the 30-day notification.
2. Contractor will also notify NM one-call 3 working days before working in ROW.
3. While working in WPX Energy right of way, minimum requirements include:
 - A WPX Energy inspector must be present at all times during gas line crossing construction.
 - The Contractor shall vacuum drill or hand excavate when within two feet of any WPX Energy line.
 - NTUA water line must cross with a minimum of 2' of vertical clearance under any WPX Energy line.

WPX Energy contact information:

Mark Lepich can be reached at:

Office: 505-333-1803

Cell: 505-320-1338

APPENDIX E

Sandoval County and BIA Road Department Permits

- **Sandoval County Road Utility Crossing Permits (2 Separate Permits)**
- **Permission for Utility Crossing within BIA ROW (3 Separate Permits)**
- **Permission to Construct Driveway within BIA ROW**
- **Permission to Work within BIA Road ROW for Other than Driveways or Utilities (2 Separate Permits)**

SANDOVAL COUNTY ADMINISTRATIVE OFFICES

PUBLIC WORKS DIVISION

2708 Iris NE - Rio Rancho - New Mexico - 87144

Phone: (505)771-8500 Fax: (505)771-3323

Utility Street Cut Permit

The undersigned hereby makes application to the Sandoval County Public Works Department to excavate in a street, road or right-of-way supported by Sandoval County.

Should there be a failure of backfill as the result of faulty tamping compaction or any other act of the permittee, the permittee shall pay all costs of correcting the failure including the replacement of any surface damaged.

1. Pursuant to Section 4-37-1 and 70-3-8 NMSA 1978 comp. the undersigned:

Please refer to this number for all questions:

Company name:
Address:
Town:
Zip code:
Phone: Fax:

Contact person:
Contact phone:
contractor license:

Hereby applies to construct, install, Maintain and operate the following: (water, elect, cable, remove maintain, upgrade etc.)

work description:

2. Public rights of way in the following location will be used as indicated:

Work address:
Nearest intersection:
Surface:

3. Diagrammatic drawings showing location and dimensions of existing and/or Proposed installations with reference to roadway right-of-way.

Minimum Depth: 3ft on bar ditches or roadside, 4ft on drainage areas or culverts in place. Please refer to the attached Plans.

Depth: Width of cut: length of cut: shoulder cut:
start proj: end proj: Road cut:

4. Applicant will be responsible for any or all traffic safety control during installation, the roads must remain open unless a detour has been designated or approved by this department.

Traffic plan:

5. All constructions shall be inspected before and after by an officer of the Public Works Division.

start inspect: end inspect:

6. All excavation shall conform to Sandoval County Ordinance NO. 04-12-85

7. All excavation shall conform to all Sandoval County Arroyo Flood Control Agency, (SCAFCA), United States Army corps of Engineers Regulatory Program(section 404 of the Clean Water Act 33 U.S.c. 1344).

8. Please attach any documents to support easements, right-of-way access agreement that might pertain to this application. Include any maps, township range section information that will help us accurately identify the location of the excavation.

Permit fees: amt to pay: paid:

Plan attached

Approved

PO number

It is the responsibility of the applicant to replace the area to its previous condition (pavement, gravel, trees, brush.. etc).

This is not a permit to close the road at anytime.

Make checks payable to
Public Works Division

Applicant Signature

10/18/13

SANDOVAL COUNTY ADMINISTRATIVE OFFICES

PUBLIC WORKS DIVISION

2708 Iris NE - Rio Rancho - New Mexico - 87144

Phone: (505)771-8500 Fax: (505)771-3323

Utility Street Cut Permit

The undersigned hereby makes application to the Sandoval County Public Works Department to excavate in a street, road or right-of-way supported by Sandoval County.

Should there be a failure of backfill as the result of faulty tamping compaction or any other act of the permittee, the permittees shall pay all costs of correcting the failure including the replacement of any surface damaged.

1. Pursuant to Section 4-37-1 and 70-3-8 NMSA 1978 comp. the undersigned:

Please refer to this number for all questions:

Company name:
Address:
Town:
Zip code:
Phone: Fax:

Contact person:
Contact phone:
contractor license:

Hereby applies to construct, install, Maintain and operate the following: (water, elect, cable, remove maintain, upgrade etc.)

work description:

2. Public rights of way in the following location will be used as indicated: Sandoval County Road 41A

Work address:
Nearest intersection:
Surface:

3. Diagrammatic drawings showing location and dimensions of existing and/or Proposed installations with reference to roadway right-of-way.

Minimum Depth: 3ft on bar ditches or roadside, 4ft on drainage areas or culverts in place. Please refer to the attached Plans.

Depth: Width of cut: length of cut: shoulder cut:
start proj: end proj: Road cut:

4. Applicant will be responsible for any or all traffic safety control during installation, the roads must remain open unless a detour has been designated or approved by this department.

Traffic plan:

5. All constructions shall be inspected before and after by an officer of the Public Works Division.

start inspect: end inspect:

6. All excavation shall conform to Sandoval County Ordinance NO. 04-12-85

7. All excavation shall conform to all Sandoval County Arroyo Flood Control Agency, (SCAFCA), United States Army corps of Engineers Regulatory Program(section 404 of the Clean Water Act 33 U.S.c. 1344).

8. Please attach any documents to support easements, right-of-way access agreement that might pertain to this application. Include any maps, township range section information that will help us accurately identify the location of the excavation.

Permit fees: amt to pay: paid:

Plan attached

Approved

PO number

It is the responsibility of the applicant to replace the area to its previous condition (pavement, gravel, trees, brush.. etc).

This is not a permit to close the road at anytime.

Make checks payable to
Public Works Division

Applicant Signature

10/18/13



CROSSING #1

United States Department of the Interior
Bureau of Indian Affairs
Navajo Regional Office Division of Transportation

Application for Permission for Utility crossing within BIA Right-of-Way
(Authorization: 23 USC Part 123, 23 CFR Part 645 Subpart A & B, 25 CFR Part 170)
Rev:03/04/2014

Background: *to be filled out by Agency DOT Office*

Agency: Eastern
Route No: N46

Date: 05/22/2014
Permit No: 4N370-46-14-219
(Assigned by Regional DOT Office)

Project No: _____
(Assigned by Regional DOT Office)

Section (A): *to be filled out by applicant*

APPLICATION is hereby made by Navajo Tribal Utility Authority, address: _____
P.O. Box 170, Fort Defiance, AZ 86504 Phone: 800-528-5011 to
construct utility crossing(s) at the following location(s) Approx. 5 miles south of US HWY 550
(Attach location map) adjacent to or crossing BIA Route: Crossing N46
Station/Mile Post: _____ Street: _____
for the purpose of (supplying service to): / ☒ / residence / ☒ / Business: _____
/ ☒ / School: _____ / / Other: _____

. The utility shall be constructed by the applicant on or by (date) FALL 2014 and shall
take 7 calendar days to complete (attach appropriate engineering sketches of
each utility location). The applicant further agrees (at their entire expense) to comply with all the
conditions, restrictions, and regulations of both the BIA Navajo Regional Division of
Transportation (NRDOT) and the Navajo Nation including the requirements of Section (B) thru
(F) below including the following:

1. All underground utility installations (on asphalt or concrete surfaced roads) shall cross the roadways by a boring method with a minimum cover depth of (1) one meter below the lowest ditch line elevation unless otherwise specified in section (E) below; All overhead utilities shall have a minimum of 5.5 meter clearance above the roadway surface.
2. A traffic control plan shall be prepared and submitted for approval as required in Section (C) below. This traffic control plan must be implemented prior to any work performed within the roadway right-of-way and shall meet the requirements of the "Manual on Uniform Traffic Control Devices" (MUTCD), latest edition;
3. The Utility Owner accepts full responsibility for the safety of the traveling public

during utility installations and shall maintain at least one lane of traffic open for the public at all times.

4. All components of the above utility installation shall comply with applicable federal, state, tribal, and other local governing body laws and regulations and industry codes;
5. Any and all damages to the roadway right-of-way and appurtenances shall be repaired and/or replaced to the satisfaction of the (NRDOT) Manager;
6. The applicant shall restore the lands within the roadway right-of-way to its natural conditions including drainage, re-seeding and mulching;
7. Relocate any and all utilities within the roadway right-of-way if the NRDOT Manager determines that the utility crossing will interfere with future roadway construction and maintenance or poses a safety hazard to the traveling public;
8. Construct exposed utility lines, poles, anchors, and facility appurtenances outside the clear recovery zones of the roadway as determined by the NRDOT Manager (*preferably next to the right-of-way lines whenever possible*);
9. All utility lines crossing the roadway shall be installed in a casing pipe per attached details. Casing pipe shall be steel, ductile iron, or reinforced concrete or other approved material. Electrical, cable TV or telephone lines may be encased in non-metallic conduit. High pressure and/or hazardous liquid utility lines may call for additional protection requirements;
10. Mark all utility crossings with approved permanent markers next to the road right-of-way lines;
11. Maintain the utility lines, and all utility appurtenances, at all times so as not to allow a condition to exist which would be a safety hazard to the traveling public and/or maintenance problem to the roadway or associated structures. Promptly repair any damages to the facilities with an emergency traffic control plan implemented in accordance with the procedures outlined in the MUTCD Manual, latest edition. Prior to any utility repairs or maintenance, the utility owner must notify the appropriate Agency DOT Engineer as soon as possible after any emergency is discovered or 3 days in advance of all other routine maintenance work;
12. Upgrading of existing permitted utility lines is allowed provided the utility line does not change location with respect to the roadway. If the utility line is to be moved or the angle of the crossing with respect to the road changes substantially, the utility owner must apply for a new permit crossing;
13. Should at any time in the future the utility line(s), stated herein, no longer are to be used, these line(s) shall be removed or abandoned in place, as directed by the

14. On pressure lines, shut-off valves, shall be located at the roadway rights-of-way lines where such utility enters and leaves the roadway rights-of-way.

The above utility encroachment(s) shall require the following appurtenances which the applicant agrees to install in accordance with the BIA NRDOT design and construction standards.

Section (C): *to be filled out by the NRDOT Manager (check all that apply)*

- /✓/ complete set of utility crossing drawings reflecting clearances, depth of cover, all pertinent dimensions of proposed facility with respect to the roadway, shoulder ditches, and road rights-of-way lines, structural cover details, etc.
- /✓/ structural analysis
- /✓/ traffic control plan meeting the requirements of the MUTCD
- / / geotechnical analysis & utility installation requirements for special utility installations
- /✓/ archeological & environmental compliance/clearance documents
- /✓/ Consent from the Navajo Nation ⁽¹⁾
- / / Consent from the State of New Mexico ⁽¹⁾
- / / Consent from the State of Arizona ⁽¹⁾
- / / Consent from Indian Allotted ⁽¹⁾
- / / Consent from Private Land Owner ⁽¹⁾

Any and all analyses shall be performed by registered professionals licensed in the field for which the analysis or documentation is required. The analysis required above shall conform to the BIA NRDOT standards which shall be furnished upon request. The recommendations furnished in the

analysis report(s) shall be implemented by the applicant at the time the utility(s) are constructed. **In no case shall the roadway surfacing be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below when installing utilities in open cut trenches.**

Section (D): *general construction requirements*

The applicant shall (*at his/her entire expense*) install the utility(s) to the lines and grades as shown on attached details or as required in the (*approved*) utility drawings. The work shall conform to the **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), latest edition**, relevant national, state, tribal, or local codes approved by NRDOT office, and the following:

- Open cut trenches through roadways shall be backfilled and compacted as per attached details and the FP, section 209. Boring pits and other excavations shall be backfilled and compacted as per attached details and the FP, section 209 with the compaction being 90% of maximum density.
- The top 152mm (6 inches) of natural ground and subgrade of road crossings shall be scarified, adjusted for optimum moisture and compacted in accordance with applicable provisions of section 204 of the FP. All subgrade construction shall be in accordance with section 204 of the FP.
- If the natural ground underneath the proposed utility crossing under the roadway prism shows unstable material, the area shall be excavated to the depths required and stabilized with structural backfill in accordance with section 704 and/or section 213 of the FP.
- The applicant shall furnish test results, certifications for all materials, and copies of all pertinent inspection records to the Agency Road Engineer to review in the field for acceptance of the work.
- The applicant shall notify the Agency DOT Engineer at least 5 working days prior to start of work and upon completion of work within the BIA right-of-way.
- The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the MUTCD (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.
- Any buried non-metallic utility lines shall have a metallic tape or other approved method of effectively locating the lines.

The applicant shall further comply with the following (*please type*): _____

Section (F): approvals

This permit is hereby issued to the foregoing applicant for the expressed purpose set forth in this application and upon expressed condition that every requirement herein is faithfully performed and all the work to be performed in accordance with the plans, specifications, and requirements stipulated herein.

This permit shall have a term of perpetuity from the date approved below or unless item (13) of Section (A) is executed. This permit shall be canceled if installation within the road right-of-way is not completed by December 2014. The permit is transferrable and enforceable to all future owners/heirs/ successors of the utility described above.

Signed:

Recommend for Approval:

Navajo Tribal Utility Authority (NTUA)

Name of utility owner (print)

Bernice Tsosie 5-10-13

Applicant (owner) signature *Date*

Bernice Tsosie

Government Liaison/ROW Specialist

Applicant Title

Agency Road Engineer Date

Concurred by:

Approved By:

[Signature] 5/19/14

Regional NRDOT Manager

Date

[Signature] 5/20/14

Navajo Regional Director

Date



CROSSING #2

United States Department of the Interior
Bureau of Indian Affairs
Navajo Regional Office Division of Transportation

Application for Permission for Utility crossing within BIA Right-of-Way
(Authorization: 23 USC Part 123, 23 CFR Part 645 Subpart A & B, 25 CFR Part 170)
Rev:03/04/2014

Background: *to be filled out by Agency DOT Office*

Agency: Eastern
Route No: N474

Date: 05/22/2014
Permit No: 4N370-474-14-220
(Assigned by Regional DOT Office)

Project No: _____
(Assigned by Regional DOT Office)

Section (A): *to be filled out by applicant*

APPLICATION is hereby made by Navajo Tribal Utility Authority, address: _____
P.O. Box 170, Fort Defiance, AZ 86504 Phone: 800-528-5011 to
construct utility crossing(s) at the following location(s) Approx. 2.3 miles SE of intersection N46 & N474
(Attach location map) adjacent to or crossing BIA Route: Crossing N474
Station/Mile Post: _____ Street: _____
for the purpose of (supplying service to): ☒ residence / ☒ Business: _____
/ ☒ School: _____ / Other: _____

. The utility shall be constructed by the applicant on or by (date) FALL 2014 and shall
take 7 calendar days to complete (attach appropriate engineering sketches of
each utility location). The applicant further agrees (at their entire expense) to comply with all the
conditions, restrictions, and regulations of both the BIA Navajo Regional Division of
Transportation (NRDOT) and the Navajo Nation including the requirements of Section (B) thru
(F) below including the following:

1. All underground utility installations (on asphalt or concrete surfaced roads) shall cross the roadways by a boring method with a minimum cover depth of (1) one meter below the lowest ditch line elevation unless otherwise specified in section (E) below; All overhead utilities shall have a minimum of 5.5 meter clearance above the roadway surface.
2. A traffic control plan shall be prepared and submitted for approval as required in Section (C) below. This traffic control plan must be implemented prior to any work performed within the roadway right-of-way and shall meet the requirements of the "Manual on Uniform Traffic Control Devices" (MUTCD), latest edition;
3. The Utility Owner accepts full responsibility for the safety of the traveling public

during utility installations and shall maintain at least one lane of traffic open for the public at all times.

4. All components of the above utility installation shall comply with applicable federal, state, tribal, and other local governing body laws and regulations and industry codes;
5. Any and all damages to the roadway right-of-way and appurtenances shall be repaired and/or replaced to the satisfaction of the (NRDOT) Manager;
6. The applicant shall restore the lands within the roadway right-of-way to its natural conditions including drainage, re-seeding and mulching;
7. Relocate any and all utilities within the roadway right-of-way if the NRDOT Manager determines that the utility crossing will interfere with future roadway construction and maintenance or poses a safety hazard to the traveling public;
8. Construct exposed utility lines, poles, anchors, and facility appurtenances outside the clear recovery zones of the roadway as determined by the NRDOT Manager (*preferably next to the right-of-way lines whenever possible*);
9. All utility lines crossing the roadway shall be installed in a casing pipe per attached details. Casing pipe shall be steel, ductile iron, or reinforced concrete or other approved material. Electrical, cable TV or telephone lines may be encased in non-metallic conduit. High pressure and/or hazardous liquid utility lines may call for additional protection requirements;
10. Mark all utility crossings with approved permanent markers next to the road right-of-way lines;
11. Maintain the utility lines, and all utility appurtenances, at all times so as not to allow a condition to exist which would be a safety hazard to the traveling public and/or maintenance problem to the roadway or associated structures. Promptly repair any damages to the facilities with an emergency traffic control plan implemented in accordance with the procedures outlined in the MUTCD Manual, latest edition. Prior to any utility repairs or maintenance, the utility owner must notify the appropriate Agency DOT Engineer as soon as possible after any emergency is discovered or 3 days in advance of all other routine maintenance work;
12. Upgrading of existing permitted utility lines is allowed provided the utility line does not change location with respect to the roadway. If the utility line is to be moved or the angle of the crossing with respect to the road changes substantially, the utility owner must apply for a new permit crossing;
13. Should at any time in the future the utility line(s), stated herein, no longer are to be used, these line(s) shall be removed or abandoned in place, as directed by the

Agency DOT Engineer. The applicant shall submit a letter, to the NRDOT Agency Road Engineer, requesting that the utility owner/applicant be relieved of the requirements of this permit. The Agency DOT Engineer shall promptly forward with his/her recommendation this request to the NRDOT Manager for action. All overhead lines and poles shall be removed from the roadway rights-of-way limits by the owner/applicant as directed by the NRDOT Manager;

14. On pressure lines, shut-off valves, shall be located at the roadway rights-of-way lines where such utility enters and leaves the roadway rights-of-way.

Section (B): *to be filled out by the Agency DOT Engineer (check all that applies)*

The above utility encroachment(s) shall require the following appurtenances which the applicant agrees to install in accordance with the BIA NRDOT design and construction standards.

The above utility encroachment(s) shall require: / ☒ / construction plans submitted for approval prior to construction; / ☒ / 18 meters of casing 356mm (14") ~~mm~~ diameter/size (min); / / manholes, valves, or poles offset _____ meters from roadway shoulder; / ☒ / markers for identification purposes; / / construct crossing at 90° to the roadway; / / As-Built drawings in accordance with BIA NRDOT standards. The Applicant shall further comply with the following (please type): _____

Section (C): *to be filled out by the NRDOT Manager (check all that apply)*

The above described utilities require (entirely at the applicant's expense) :

- / ☒ / complete set of utility crossing drawings reflecting clearances, depth of cover, all pertinent dimensions of proposed facility with respect to the roadway, shoulder ditches, and road rights-of-way lines, structural cover details, etc.
- / ☒ / structural analysis
- / ☒ / traffic control plan meeting the requirements of the MUTCD
- / ☒ / geotechnical analysis & utility installation requirements for special utility installations
- / ☒ / archeological & environmental compliance/clearance documents
- / ☒ / Consent from the Navajo Nation ⁽¹⁾
- / / Consent from the State of New Mexico ⁽¹⁾
- / / Consent from the State of Arizona ⁽¹⁾
- / / Consent from Indian Allotted ⁽¹⁾
- / / Consent from Private Land Owner ⁽¹⁾

(1) Consent from the underlying land owner must be acquired in writing if the utility is crossing such land.

Any and all analyses shall be performed by registered professionals licensed in the field for which the analysis or documentation is required. The analysis required above shall conform to the BIA NRDOT standards which shall be furnished upon request. The recommendations furnished in the

analysis report(s) shall be implemented by the applicant at the time the utility(s) are constructed. **In no case shall the roadway surfacing be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below when installing utilities in open cut trenches.**

Section (D): *general construction requirements*

The applicant shall (*at his/her entire expense*) install the utility(s) to the lines and grades as shown on attached details or as required in the (*approved*) utility drawings. The work shall conform to the **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP)**, latest edition, relevant national, state, tribal, or local codes approved by NRDOT office, and the following:

- Open cut trenches through roadways shall be backfilled and compacted as per attached details and the FP, section 209. Boring pits and other excavations shall be backfilled and compacted as per attached details and the FP, section 209 with the compaction being 90% of maximum density.
- The top 152mm (6 inches) of natural ground and subgrade of road crossings shall be scarified, adjusted for optimum moisture and compacted in accordance with applicable provisions of section 204 of the FP. All subgrade construction shall be in accordance with section 204 of the FP.
- If the natural ground underneath the proposed utility crossing under the roadway prism shows unstable material, the area shall be excavated to the depths required and stabilized with structural backfill in accordance with section 704 and/or section 213 of the FP.
- The applicant shall furnish test results, certifications for all materials, and copies of all pertinent inspection records to the Agency Road Engineer to review in the field for acceptance of the work.
- The applicant shall notify the Agency DOT Engineer at least 5 working days prior to start of work and upon completion of work within the BIA right-of-way.
- The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the MUTCD (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.
- Any buried non-metallic utility lines shall have a metallic tape or other approved method of effectively locating the lines.

The applicant shall further comply with the following (*please type*): _____

Section (F): approvals

This permit is hereby issued to the foregoing applicant for the expressed purpose set forth in this application and upon expressed condition that every requirement herein is faithfully performed and all the work to be performed in accordance with the plans, specifications, and requirements stipulated herein.

This permit shall have a term of perpetuity from the date approved below or unless item (13) of Section (A) is executed. This permit shall be canceled if installation within the road right-of-way is not completed by December 2014. The permit is transferrable and enforceable to all future owners/heirs/ successors of the utility described above.

Signed:

Recommend for Approval:

Navajo Tribal Utility Authority (NTUA)
Name of utility owner (print)
Bernice Tsosie 5-10-13
Applicant (owner) signature Date
Bernice Tsosie
Government Liaison/ROW Specialist
Applicant Title

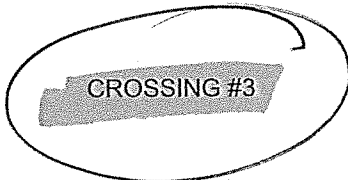
Agency Road Engineer Date

Concurred by:

Approved By:

[Signature] 5/19/14
Regional NRDOT Manager Date

[Signature] 5/28/14
Navajo Regional Director Date



United States Department of the Interior
Bureau of Indian Affairs
Navajo Regional Office Division of Transportation

Application for Permission for Utility crossing within BIA Right-of-Way
(Authorization: 23 USC Part 123, 23 CFR Part 645 Subpart A & B, 25 CFR Part 170)
Rev:03/04/2014

Background: *to be filled out by Agency DOT Office*

Agency: Eastern
Route No: N474

Date: 05/22/2014
Permit No: 4N370-474-14-221
(Assigned by Regional DOT Office)

Project No: _____
(Assigned by Regional DOT Office)

Section (A): *to be filled out by applicant*

APPLICATION is hereby made by Navajo Tribal Utility Authority, address: _____
P.O. Box 170, Fort Defiance, AZ 86504 Phone: 800-528-5011 to
construct utility crossing(s) at the following location(s) Approx. 5 miles SE of intersection of N46 & N474
(Attach location map) adjacent to or crossing BIA Route: Crossing N474
Station/Mile Post: _____ Street: _____
for the purpose of (supplying service to): / ☒ / residence / ☒ / Business: _____
/ ☒ / School: _____ / / Other: _____
. The utility shall be constructed by the applicant on or by (date) FALL 2014 and shall
take 7 calendar days to complete (attach appropriate engineering sketches of
each utility location). The applicant further agrees (at their entire expense) to comply with all the
conditions, restrictions, and regulations of both the BIA Navajo Regional Division of
Transportation (NRDOT) and the Navajo Nation including the requirements of Section (B) thru
(F) below including the following:

1. All underground utility installations (on asphalt or concrete surfaced roads) shall cross the roadways by a boring method with a minimum cover depth of (1) one meter below the lowest ditch line elevation unless otherwise specified in section (E) below; All overhead utilities shall have a minimum of 5.5 meter clearance above the roadway surface.
2. A traffic control plan shall be prepared and submitted for approval as required in Section (C) below. This traffic control plan must be implemented prior to any work performed within the roadway right-of-way and shall meet the requirements of the "Manual on Uniform Traffic Control Devices" (MUTCD), latest edition;
3. The Utility Owner accepts full responsibility for the safety of the traveling public

during utility installations and shall maintain at least one lane of traffic open for the public at all times.

4. All components of the above utility installation shall comply with applicable federal, state, tribal, and other local governing body laws and regulations and industry codes;
5. Any and all damages to the roadway right-of-way and appurtenances shall be repaired and/or replaced to the satisfaction of the (NRDOT) Manager;
6. The applicant shall restore the lands within the roadway right-of-way to its natural conditions including drainage, re-seeding and mulching;
7. Relocate any and all utilities within the roadway right-of-way if the NRDOT Manager determines that the utility crossing will interfere with future roadway construction and maintenance or poses a safety hazard to the traveling public;
8. Construct exposed utility lines, poles, anchors, and facility appurtenances outside the clear recovery zones of the roadway as determined by the NRDOT Manager (*preferably next to the right-of-way lines whenever possible*);
9. All utility lines crossing the roadway shall be installed in a casing pipe per attached details. Casing pipe shall be steel, ductile iron, or reinforced concrete or other approved material. Electrical, cable TV or telephone lines may be encased in non-metallic conduit. High pressure and/or hazardous liquid utility lines may call for additional protection requirements;
10. Mark all utility crossings with approved permanent markers next to the road right-of-way lines;
11. Maintain the utility lines, and all utility appurtenances, at all times so as not to allow a condition to exist which would be a safety hazard to the traveling public and/or maintenance problem to the roadway or associated structures. Promptly repair any damages to the facilities with an emergency traffic control plan implemented in accordance with the procedures outlined in the MUTCD Manual, latest edition. Prior to any utility repairs or maintenance, the utility owner must notify the appropriate Agency DOT Engineer as soon as possible after any emergency is discovered or 3 days in advance of all other routine maintenance work;
12. Upgrading of existing permitted utility lines is allowed provided the utility line does not change location with respect to the roadway. If the utility line is to be moved or the angle of the crossing with respect to the road changes substantially, the utility owner must apply for a new permit crossing;
13. Should at any time in the future the utility line(s), stated herein, no longer are to be used, these line(s) shall be removed or abandoned in place, as directed by the

14. On pressure lines, shut-off valves, shall be located at the roadway rights-of-way lines where such utility enters and leaves the roadway rights-of-way.

The above utility encroachment(s) shall require: / ✓ construction plans submitted for approval prior to construction; / ✓ / 18 meters of casing 356mm (14") mm-diameter/size (min); / / manholes, valves, or poles offset _____ meters from roadway shoulder; / ✓ markers for identification purposes; / / construct crossing at 90° to the roadway; / ✓ As-Built drawings in accordance with BIA NRDOT standards . The Applicant shall further comply with the following (*please type*): _____

- / / complete set of utility crossing drawings reflecting clearances, depth of cover, all pertinent dimensions of proposed facility with respect to the roadway, shoulder ditches, and road rights-of-way lines, structural cover details, etc.
- / / structural analysis
- / / traffic control plan meeting the requirements of the MUTCD
- / / geotechnical analysis & utility installation requirements for special utility installations
- / / archeological & environmental compliance/clearance documents
- / / Consent from the Navajo Nation ⁽¹⁾
- / / Consent from the State of New Mexico ⁽¹⁾
- / / Consent from the State of Arizona ⁽¹⁾
- / / Consent from Indian Allotted ⁽¹⁾
- / / Consent from Private Land Owner ⁽¹⁾

III

analysis report(s) shall be implemented by the applicant at the time the utility(s) are constructed. **In no case shall the roadway surfacing be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below when installing utilities in open cut trenches.**

Section (D): *general construction requirements*

The applicant shall (*at his/her entire expense*) install the utility(s) to the lines and grades as shown on attached details or as required in the (*approved*) utility drawings. The work shall conform to the **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), latest edition**, relevant national, state, tribal, or local codes approved by NRDOT office, and the following:

- Open cut trenches through roadways shall be backfilled and compacted as per attached details and the FP, section 209. Boring pits and other excavations shall be backfilled and compacted as per attached details and the FP, section 209 with the compaction being 90% of maximum density.
- The top 152mm (6 inches) of natural ground and subgrade of road crossings shall be scarified, adjusted for optimum moisture and compacted in accordance with applicable provisions of section 204 of the FP. All subgrade construction shall be in accordance with section 204 of the FP.
- If the natural ground underneath the proposed utility crossing under the roadway prism shows unstable material, the area shall be excavated to the depths required and stabilized with structural backfill in accordance with section 704 and/or section 213 of the FP.
- The applicant shall furnish test results, certifications for all materials, and copies of all pertinent inspection records to the Agency Road Engineer to review in the field for acceptance of the work.
- The applicant shall notify the Agency DOT Engineer at least 5 working days prior to start of work and upon completion of work within the BIA right-of-way.
- The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the MUTCD (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.
- Any buried non-metallic utility lines shall have a metallic tape or other approved method of effectively locating the lines.

The applicant shall further comply with the following (*please type*): _____

This permit is hereby issued to the foregoing applicant for the expressed purpose set forth in this application and upon expressed condition that every requirement herein is faithfully performed and all the work to be performed in accordance with the plans, specifications, and requirements stipulated herein.

Signed:

Navajo Tribal Utility Authority (NTUA)

Bernie Trosin 5-10-13

Date _____

Government Liaison/ROW Specialist

Agency Road Engineer Date

Approved By:

Handwritten signature: 5/19/14

Date _____

815-5/25/14

Navajo Regional Director Date



United States Department of The Interior
Bureau of Indian Affairs
Navajo Regional Office

Application for Permission to Construct Driveway within BIA Right-of-Way
(Authorization: 23 USC Part 111, 23 CFR SubChapter A, Part 1.23, 25 CFR Part 169.15)
Rev:05/15/2012

Background: to be filled out by Agency DOT Office

Agency: Eastern
Route No: N474
Project No: _____

Date: 05/22/2014
Permit No: 4N360-474-14-75
(Assigned by NRDOT Office)

Section (A): to be filled out by applicant

APPLICATION is hereby made by Navajo Tribal Utility Authority, address: P.O. Box 170,
Fort Defiance, AZ 86504 to construct driveway(s) at the following
location(s) Approx. 1.6 miles SE of intersection N46 & N474, adjacent to BIA Route: N474 Station/Mile
Post: _____ Street: _____ for the purpose of (access to): / /
residence / / Business: _____ / / School: _____ /x/
Other: A Pump Station. The driveway shall be constructed by the applicant on or by
(date) Fall/Summer 2013 and shall take 7 calendar days to complete. The applicant further
agrees to comply with all the conditions, restrictions, and regulations of both the BIA Navajo
Region Division of Transportation (NRDOT) and the Navajo Nation including the requirements
of Section (B) thru (E) below.

Section (B): to be filled out by the Agency DOT Engineer

The above driveway shall require the following appurtenances which the applicant agrees to
install in accordance with the BIA NRDOT design and construction standards. The applicant
further agrees to maintain (at his/her entire expense) these appurtenances in good repair for the
safety of the traveling public unless otherwise specified herein.

The above driveway(s) shall require: a width of: 7.4 meters (min. 4.9m) with: / /
Unit cattle guard; with /x/ gate / / no gate; fencing Type: / / 5 strand barb wire / / woven wire
/x/ chain link /x/ culverts in accordance with BIA NRDOT standards enclosed. The
Driveway(s) shall require construction of / / PCC curbing / / PCC gutter / / PCC sidewalk in
accordance with BIA NRDOT standards enclosed. The Applicant shall further comply with the
following (please type):

+ RECEIVED

FEB 10 2014

I

Navajo Region
Division of Transportation

Section (C): *to be filled out by the NRDOT Division Manager*

The above described driveway(s) require (*entirely at the applicant's expense*) a:

- / / drainage analysis
- / / traffic impact analysis
- / / geotechnical analysis & surfacing recommendations
- / ✓ Archeological compliance
- / ✓ NEPA compliance
- / ✓ Traffic Control Plan

The analysis shall be performed by a registered professional engineer licensed in the field for which the analysis is required. The analysis required above shall conform to the BIA NRDOT design standards which shall be furnished upon request. The recommendations furnished in the analysis report(s) shall be implemented by the applicant at the time the driveway(s) are constructed. **In no case shall the driveway surfacing be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below.**

Section (D): *general construction requirements*

The applicant shall (*at his/her entire expense*) construct the driveway(s) to the Typical Section shown as exhibit (A) or as required in the (*approved*) traffic impact analysis and geotechnical recommendations report. The work shall conform to the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), **latest edition** including the following:

1. The top 152mm (6 inches) of natural ground and subgrade of driveway(s) shall be scarified, adjusted for optimum moisture and compacted in accordance with applicable provisions of section 204 of the FP. All subgrade construction shall be in accordance with section 204 of the FP.
2. If the natural ground underneath the proposed driveway(s) shows unstable material, the area shall be excavated to the depths required and stabilized with structural backfill in accordance with section 704 and/or section 213 of the FP.

All drainage structures shall comply with the applicable provisions of sections 209, 552, and 602 of the FP and the drainage analysis required above. The minimum size of drainage structures shall be no less than 610mm (24 inches) in any dimension and shall be capable of passing a minimum of a 24 hour, 25 year storm event unless the drainage analysis indicates, and requires, a larger storm event.

The drainage structures installed under the driveway(s) shall maintain at least 305mm (12 inches) of cover over the structure.

The applicant shall furnish test results, certifications for all materials, and copies of all pertinent inspection records to the Agency DOT Engineer to review in the field for acceptance of the work.

All fence, cattle guards, and gates shall be constructed in accordance with section 619 of the FP.

All curb, gutter, and sidewalk shall be constructed in accordance with sections 609 and 615 of the FP.

The driveway(s) shall intersect the BIA roadway at 90 degrees unless otherwise specified in this application and shall have a maximum grade of 8% with a minimum grade for drainage of 1%. The driveway(s) shall be located in such fashion that adequate sight distance is maintained along the BIA road in accordance with the BIA NRDOT design standards.

The applicant shall notify the Agency DOT Engineer at least 3 days prior to start of work and upon completion of work within the BIA right-of-way.

The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the Manual on Uniform Traffic Control Devices (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.

The applicant shall further comply with the following (*please type*): _____.

Section (E): *to be filled in by NRDOT Manager & Agency DOT Engineer*

The Regional NRDOT hereby grants the following exception to this driveway permit request (*please type*): Expiration Date : December 2014

NRDOT Manager (initials):

ASM 5-19-14

Signed: *Bernice Tsosie*

Navajo Tribal Utility Authority (NTUA)

applicant (owner)
Bernice Tsosie
Government Liaison/ROW Specialist

Applicant Title

Date 5-10-13

Recommend for Approval:

By J. A. 2/4/14

Agency Road Engineer *Date*

Concurred by:

Harvey J. ... 5/19/14
NRDOT Manager *Date*

Approved By:

[Signature] 5/20/14
Navajo Regional Director *Date*



United States Department of the Interior
Bureau of Indian Affairs
Navajo Regional Office

**Application for Permission to work within BIA Road Right-of-Way for other than driveways
or utility installations**

(Authorization: 23 USC Part 111, 23 CFR SubChapter A, Part 1.23, 25 CFR Part 169.15)

Rev:05/15/2012

Background: (to be filled out by Agency DOT Office)

Agency: Eastern

Route No: N474

Project No: _____

Date: 05/22/2014,

Permit No: 4N370-474-14-01

(Assigned by NRDOT Office)

Section (A): to be filled out by applicant

APPLICATION is hereby made by Navajo Nation Water Management Branch,
address: Route NM12 Roanhorse Dr. Bldg F-004-033 Phone: 928-729-4004 to
P.O. Box 678, Fort Defiance, AZ 86504
install a storm drainage culvert at the following location(s) Approx. 1.7 miles SE of adjacent to BIA
intersection N46 & N474
Route Station/Mile Post: N474 Street: _____ for the purpose
of (access to): / / residence / / Business: _____ / / School:
/ X / Other: Draining storm water from the E. side of the road
to the W. side of the road. The work shall be carried out by the
applicant on or by (date) Summer/Fall 2013 And shall take 7 calendar days to complete. The
applicant further agrees to comply with all the conditions, restrictions, and regulations of both
the BIA Navajo Division of Transportation (NRDOT) and the Navajo Nation including the
requirements of Section (B) thru (E) below.

Section (B): to be filled out by the Agency DOT Engineer

The above work shall require the following appurtenances which the applicant agrees to install in
accordance with the BIA NRDOT design and construction standards. The applicant further
agrees to maintain (at his/her entire expense) these appurtenances in good repair for the safety of
the traveling public unless otherwise specified herein.

The above location(s) shall require: a work area width of: 25' x 100' long with: / / ___ Unit
cattle guard; with / / gate / / no gate; fencing Type: / / 5 strand barb wire / / woven wire / /
chain link; / / Other: Install 1-30" x 100' CSP w/ end sections ✓ culverts in
accordance with BIA NRDOT standards enclosed. The work area(s) shall require construction of
/ / PCC curbing / / PCC gutter / / PCC sidewalk in accordance with BIA NRDOT standards
enclosed.

The Applicant shall further comply with the following (*please type*):

Section (C): (*to be filled out by the NRDOT Manager*)

The above described work requires (*entirely at the applicant's expense*) a:

- / ✓ / drainage analysis
- / / traffic impact analysis
- / / geotechnical analysis & surfacing recommendations
- / ✓ / Archeological compliance
- / ✓ / NEPA compliance
- / / Containment system for hazardous waste
- / / Construction Yard Detailed Plans
- / ✓ / Copies of Required Permits (i.e. COE, USEPA, Tribal)
- / ✓ / Traffic control Plan

The drainage and/or traffic analysis shall be performed by a registered professional engineer licensed in the field for which the analysis is required. The analysis required above shall conform to the NRDOT design standards which shall be furnished upon request. The recommendations furnished in the analysis report(s) shall be implemented by the applicant at the time the work is started. **In no case shall any work involving paving be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below.**

Section (D): (*general construction requirements*)

The applicant shall (*at his/her entire expense*) carry out the work in a safe manner without any undo delays in the traffic. The work shall conform to the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), **latest edition** (or equivalent industry standards) including the following:

1. Once the work is completed, the subgrade shoulder and ditchlines shall be reshaped to the design slopes and grade with proper compaction as directed by the Agency DOT Engineer.
2. Any damage to existing roadway pavement shall be repaired to its original condition at the permit tee's expense.
3. Reseeding and mulching of the area may be required by the Agency DOT Engineer if the area disturbed is ½ acre or greater. The Agency DOT Engineer will provide the specifications on the type of seeding and rate of application.
4. No work shall be carried out without a safety plan in place with a copy provided to the Agency DOT Engineer

5. The applicant shall notify the Agency DOT Engineer at least 3 days prior to start of work and upon completion of work within the BIA right-of-way.
6. The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the Manual on Uniform Traffic Control Devices (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.
7. Applicant shall coordinate the final inspection of the work within the BIA road right-of-way with the Agency DOT Engineer at least (3) working days before final completion. The applicant shall make any and all necessary corrective work at it's own expense based on the inspection made by the DOT Engineer and staff.

The applicant shall further comply with the following (*please type*): _____

Section (E): *to be filled in by Regional DOT Manager*

The NRDOT hereby grants the following exception to this work permit request (*please type*):

Expiration Date: December 2014

RRE (initials): _____

QJM 5-19-14

Signed: _____

[Signature] 8/30/13

Applicant (owner)

Date

Branch Manager

Navajo Nation Water Management Branch

Applicant Title

Recommend for Approval:

[Signature] 2/4/14

Agency DOT Engineer

Date

Concurred by:

[Signature] 5/19/14

NRDOT Manager

Date

Approved By:

[Signature] 5/20/14

Navajo Regional Director

Date



Work Permit Instructions

rev:05/16/2012

Background Section:

At the time the applicant requests for a work permit application, the Agency DOT Engineer shall fill in this section with the appropriate agency office name, project number (if applicable), and BIA route number.

The Date and permit number will be filled in by the NRDOT Office when the permit has been reviewed and approved by the Regional Director.

Section (A):

When the applicant receives the driveway permit application, the applicant shall fill out this section (preferably typed) in print and attach any and all documents that may help in the processing of the permit such as:

- *sketches (with pertinent dimensions) of the proposed turnout*
- *details of proposed construction*
- *compliance documents*
- *engineering analysis*
- *cover letter with explanation of extenuating circumstances that may warrant a waiver of general permit requirements (see Section D)*

If the applicant needs assistance in filling out this section, they are to contact the appropriate Agency Road Engineer for assistance.

Section (B):

Once the applicant submits the permit application (along with supporting documentation) to the Agency Road Engineer, the Agency DOT office will review the application, fill out this section of the permit and forward to the Regional DOT Engineer, by memo, with any special recommendations to be considered by the Regional Office. A copy of the submission will be forwarded to the applicant for their records by the Agency DOT Engineer.

*The Agency DOT Engineer then signs the application as “**Recommending for Approval**” on page III of the application if the Agency Road Engineer is satisfied with the application and information provided by the applicant.*

If the Agency DOT Engineer is not satisfied with the application package, then the package shall be forwarded back to the applicant for corrections, additions, or other pertinent information with a written explanation as to why the application cannot be further processed for approval. This includes engineering analysis if the permit application is for a commercial establishment or large housing development as outlined in Section (C) below and as indicated by the applicant in Section (A) of the application.

The applicant can then review the package and resubmit with the appropriate information needed to complete the review and approval process.

Section (C):

Once the application package is sent into the NRDOT office, the package will be logged in and submitted to the Planning & Design Section for further review and recommendations. It is at this level of review that the applicant may be required to submit additional information (i.e. engineering analysis, compliance documents, engineering drawings, etc) in which case the NRDOT office will send out a notice to the applicant requesting such information in order to complete the review.

In determining whether engineering analysis will be required, the most current Average Daily Traffic (ADT) volumes are reviewed in the area of the proposed work. If the current ADT's are ≥ 1000 vpd or the adjoining property (for which the driveway is to be built) may generate ≥ 250 vpd of traffic into and out of the driveway, then a traffic analysis will be required under a separate driveway permit.

If the driveway is part of a major construction work/project (i.e. housing developments, shopping centers, convenient stores, gas stations, hospitals, schools, commercial establishments, etc) then detailed drawings will be required to review for compliance with drainage, traffic, and other safety related requirements under a separate driveway permit.

All major construction projects shall require a drainage analysis. Smaller adjoining developments may or may not require a drainage analysis depending upon the development use, and the size of the development.

Section (D):

Once the additional information is provided under Section (C), and accepted, the NRDOT Office will complete this section with any additional requirements such as standard details to be used, typical sections, special provisions, and/or other pertinent stipulations necessary to insure the proper carrying out of the work and the safety of the traveling public.

The Regional Planning & Design Section shall make a recommendation to the NRDOT Manager

to Approve/Disapprove the permit application with written justification (as necessary) pointing out any extenuating circumstances to be considered by the NRDOT Manager during his final review.

Section (E):

In reviewing the final permit package, the NRDOT Manager will determine if portions of the permit requirements are to be waived. If so, the NRDOT Manager shall indicate in this section and initial off on such waivers. If this section is left blank, then all requirements as shown in the permit shall apply and be enforceable (i.e. no waivers are to be allowed).

Once this section is completed, the NRDOT Manager signs the permit application and forwarded the package to the Regional Director for signature.

Once the permit is approved and signed by the Regional Director, the NRDOT office dates the permit and assigned a permit number. Then copies are distributed to the Regional office, Agency office, and Applicant by mail. (note: it is important that the applicant provide an accurate address)

AGENCY	AGENCY ROAD ENGINEER	AGENCY MTN. SUPV.
2N370-SHIPROCK AGENCY Division of Transportation P. O. Box 3538 Shiprock, NM 87420	Robert Q. Montoya 505/368-3347 Secretary-Esther Lewis -3341 FAX No. 505/368-3348	VACANT 505/368-3360
3N370-WESTERN NAVAJO Division of Transportation P.O. Box 127 Tuba City, AZ 86045	Roland G. Becenti 928/283-2298 Secretary- VACANT - 2297 FAX No. 928/283-2227	VACANT 928/283-2299 Clerk-Alberta M. - 2300 FAX No. 928/283-4658
4N370-EASTERN NAVAJO Division of Transportation P.O. Box 328 Crownpoint, NM 87313	Barry Lytle 505/786-6039 Secretary- VACANT - 6183 FAX No. 505/786-6111	Aaron Jim (Acting) 505/786-6181
5N370-CHINLE AGENCY Division of Transportation P.O. Box 7-H Chinle, AZ 86503	Garret Silversmith 928/674-5176 Secretary- VACANT - 5175 FAX No. 928/674-5184	Clyde Yellowhair (Acting) 928/674-5170 Clerk- VACANT -5171
6N370-FT. DEFIANCE AGENCY Division of Transportation P.O. Box 619 Ft. Defiance, AZ 86504	Calvin Castillo 928/729-7222 Secretary- VACANT - 7221 FAX No. 928/729-7225	Franklin Sandoval 928/729-7332 Clerk-Kathy F. -7334
N370F-FARMINGTON SECTION Division of Transportation P.O. Box 2206 Farmington, NM 87499	Norman R. Yazzie 505/325-8806/8807 Secretary-VACANT FAX No. 505/325-4620	Supervisor - VACANT 505/327-2783
N375-FORCE ACCOUNT SECTION Division of Transportation P.O. Box 1983 Farmington, NM 87499	Joseph Peterman 505/960-7373 Secretary- VACANT 505/960-0871 FAX NO. 505/960-6852	
N376-NEWLANDS Division of Transportation P.O. Box 369 Chambers, AZ 86502	Lorenzo Dugi (Acting) 505/863-8277 Eugene Hubbard 928/688-2928 Secretary-VACANT FAX No. 928/688-2412	

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Harold J. Riley-PE
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Lorenzo Dugi (Acting)
Construction Branch Chief
505/863-8277

Albert Lee, Supvy. Highway Engineer
505/863-8450

Corwyn Henry, Supvy. Structural Eng.
505/863-8457



United States Department of the Interior
Bureau of Indian Affairs
Navajo Regional Office

**Application for Permission to work within BIA Road Right-of-Way for other than driveways
or utility installations**

(Authorization: 23 USC Part 111, 23 CFR SubChapter A, Part 1.23, 25 CFR Part 169.15)
Rev:05/15/2012

Background: (to be filled out by Agency DOT Office)

Agency: Eastern
Route No: N474
Project No: _____

Date: 05/22/2014
Permit No: 4N370-474-14-02
(Assigned by NRDOT Office)

Section (A): to be filled out by applicant

APPLICATION is hereby made by Navajo Nation Water Management Branch,
address: Route NN12 Roanhorse Dr. Bldg F-004-033 Phone: 928-729-4004 to
P.O. Box 678, Fort Defiance, AZ 86504
install three drainage culverts at the following location(s) Approx 1.2 miles SE of intersection N46 & N474 adjacent to BIA
Route Station/Mile Post: N474 Street: _____ for the purpose
of (access to): / / residence / / Business: _____ / / School:
/ X / Other: Draining storm water from the E. side of the road to the W. side of the road. The work shall be carried out by the
applicant on or by (date) Summer/Fall 2013 And shall take 7 calendar days to complete. The
applicant further agrees to comply with all the conditions, restrictions, and regulations of both
the BIA Navajo Division of Transportation (NRDOT) and the Navajo Nation including the
requirements of Section (B) thru (E) below.

Section (B): to be filled out by the Agency DOT Engineer

The above work shall require the following appurtenances which the applicant agrees to install in
accordance with the BIA NRDOT design and construction standards. The applicant further
agrees to maintain (at his/her entire expense) these appurtenances in good repair for the safety of
the traveling public unless otherwise specified herein.

The above location(s) shall require: a work area width of: 200' x 100' long with: / / ___ Unit
cattle guard; with / / gate / / no gate; fencing Type: / / 5 strand barb wire / / woven wire / /
chain link; / / Other: 3 - 24" x 90' w/ E.S. X/ culverts in
accordance with BIA NRDOT standards enclosed. The work area(s) shall require construction of
/ / PCC curbing / / PCC gutter / / PCC sidewalk in accordance with BIA NRDOT standards
enclosed.

RECEIVED

FEB 10 2014

Navajo Region
Division of Transportation

5/22/2014-Mailed

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The Applicant shall further comply with the following (*please type*):

Section (C): (*to be filled out by the NRDOT Manager*)

The above described work requires (*entirely at the applicant's expense*) a:

- ☒ / drainage analysis
- ☒ / / traffic impact analysis
- ☒ / geotechnical analysis & surfacing recommendations
- ☒ / Archeological compliance
- ☒ / NEPA compliance
- ☒ / / Containment system for hazardous waste
- ☒ / / Construction Yard Detailed Plans
- ☒ / Copies of Required Permits (i.e. COE, USEPA, Tribal)
- ☒ / Traffic control Plan

The drainage and/or traffic analysis shall be performed by a registered professional engineer licensed in the field for which the analysis is required. The analysis required above shall conform to the NRDOT design standards which shall be furnished upon request. The recommendations furnished in the analysis report(s) shall be implemented by the applicant at the time the work is started. **In no case shall any work involving paving be structurally less than the adjoining roadway surfacing unless specifically waived or otherwise addressed in Section (E) below.**

Section (D): (*general construction requirements*)

The applicant shall (*at his/her entire expense*) carry out the work in a safe manner without any undo delays in the traffic. The work shall conform to the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), **latest edition** (or equivalent industry standards) including the following:

1. Once the work is completed, the subgrade shoulder and ditchlines shall be reshaped to the design slopes and grade with proper compaction as directed by the Agency DOT Engineer.
2. Any damage to existing roadway pavement shall be repaired to its original condition at the permit tee's expense.
3. Reseeding and mulching of the area may be required by the Agency DOT Engineer if the area disturbed is ½ acre or greater. The Agency DOT Engineer will provide the specifications on the type of seeding and rate of application.
4. No work shall be carried out without a safety plan in place with a copy provided to the Agency DOT Engineer

5. The applicant shall notify the Agency DOT Engineer at least 3 days prior to start of work and upon completion of work within the BIA right-of-way.
6. The applicant shall be responsible for developing and implementing a Traffic Control Plan that meets the requirements of the Manual on Uniform Traffic Control Devices (*latest edition with supplements*) and properly maintain this plan for all work within the BIA road right-of-way.
7. Applicant shall coordinate the final inspection of the work within the BIA road right-of-way with the Agency DOT Engineer at least (3) working days before final completion. The applicant shall make any and all necessary corrective work at it's own expense based on the inspection made by the DOT Engineer and staff.

The applicant shall further comply with the following (*please type*): _____

Section (E): *to be filled in by Regional DOT Manager*

The NRDOT hereby grants the following exception to this work permit request (*please type*): _____

RRE (initials): _____

AM 5-19-14

Signed: _____

 8/30/13

Applicant (owner)

Date

Branch Manager

Navajo Nation Water Management Branch

Applicant Title

Recommend for Approval:

 2/14/14

Agency DOT Engineer

Date

Concurred by:

 5/19/14

NRDOT Manager

Date

Approved By:

 5/20/14

Navajo Regional Director

Date



Work Permit Instructions

rev: 05/16/2012

Background Section:

At the time the applicant requests for a work permit application, the Agency DOT Engineer shall fill in this section with the appropriate agency office name, project number (if applicable), and BIA route number.

The Date and permit number will be filled in by the NRDOT Office when the permit has been reviewed and approved by the Regional Director.

Section (A):

When the applicant receives the driveway permit application, the applicant shall fill out this section (preferably typed) in print and attach any and all documents that may help in the processing of the permit such as:

- *sketches (with pertinent dimensions) of the proposed turnout*
- *details of proposed construction*
- *compliance documents*
- *engineering analysis*
- *cover letter with explanation of extenuating circumstances that may warrant a waiver of general permit requirements (see Section D)*

If the applicant needs assistance in filling out this section, they are to contact the appropriate Agency Road Engineer for assistance.

Section (B):

Once the applicant submits the permit application (along with supporting documentation) to the Agency Road Engineer, the Agency DOT office will review the application, fill out this section of the permit and forward to the Regional DOT Engineer, by memo, with any special recommendations to be considered by the Regional Office. A copy of the submission will be forwarded to the applicant for their records by the Agency DOT Engineer.

*The Agency DOT Engineer then signs the application as “**Recommending for Approval**” on page III of the application if the Agency Road Engineer is satisfied with the application and information provided by the applicant.*

If the Agency DOT Engineer is not satisfied with the application package, then the package shall be forwarded back to the applicant for corrections, additions, or other pertinent information with a written explanation as to why the application cannot be further processed for approval. This includes engineering analysis if the permit application is for a commercial establishment or large housing development as outlined in Section (C) below and as indicated by the applicant in Section (A) of the application.

The applicant can then review the package and resubmit with the appropriate information needed to complete the review and approval process.

Section (C):

Once the application package is sent into the NRDOT office, the package will be logged in and submitted to the Planning & Design Section for further review and recommendations. It is at this level of review that the applicant may be required to submit additional information (i.e. engineering analysis, compliance documents, engineering drawings, etc) in which case the NRDOT office will send out a notice to the applicant requesting such information in order to complete the review.

In determining whether engineering analysis will be required, the most current Average Daily Traffic (ADT) volumes are reviewed in the area of the proposed work. If the current ADT's are ≥ 1000 vpd or the adjoining property (for which the driveway is to be built) may generate ≥ 250 vpd of traffic into and out of the driveway, then a traffic analysis will be required under a separate driveway permit.

If the driveway is part of a major construction work/project (i.e. housing developments, shopping centers, convenient stores, gas stations, hospitals, schools, commercial establishments, etc) then detailed drawings will be required to review for compliance with drainage, traffic, and other safety related requirements under a separate driveway permit.

All major construction projects shall require a drainage analysis. Smaller adjoining developments may or may not require a drainage analysis depending upon the development use, and the size of the development.

Section (D):

Once the additional information is provided under Section (C), and accepted, the NRDOT Office will complete this section with any additional requirements such as standard details to be used, typical sections, special provisions, and/or other pertinent stipulations necessary to insure the proper carrying out of the work and the safety of the traveling public.

The Regional Planning & Design Section shall make a recommendation to the NRDOT Manager

to Approve/Disapprove the permit application with written justification (as necessary) pointing out any extenuating circumstances to be considered by the NRDOT Manager during his final review.

Section (E):

In reviewing the final permit package, the NRDOT Manager will determine if portions of the permit requirements are to be waived. If so, the NRDOT Manager shall indicate in this section and initial off on such waivers. If this section is left blank, then all requirements as shown in the permit shall apply and be enforceable (i.e. no waivers are to be allowed).

Once this section is completed, the NRDOT Manager signs the permit application and forwarded the package to the Regional Director for signature.

Once the permit is approved and signed by the Regional Director, the NRDOT office dates the permit and assigned a permit number. Then copies are distributed to the Regional office, Agency office, and Applicant by mail. (note: it is important that the applicant provide an accurate address)

AGENCY	AGENCY ROAD ENGINEER	AGENCY MTN. SUPV.
2N370-SHIPROCK AGENCY Division of Transportation P. O. Box 3538 Shiprock, NM 87420	Robert Q. Montoya 505/368-3347 Secretary-Esther Lewis -3341 FAX No. 505/368-3348	VACANT 505/368-3360
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Albert Lee, Supvy. Highway Engineer
505/863-8450

Corwyn Henry, Supvy. Structural Eng.
505/863-8457

APPENDIX F

**NTUA Application for Permission to Tap an
Existing Waterline
includes
Utility Transfer Agreement for Water
and Wastewater Facilities**

APPENDIX F

**NTUA Application for Permission to Tap an
Existing Waterline
includes
Utility Transfer Agreement for Water
and Wastewater Facilities**

NAVAJO TRIBAL UTILITY AUTHORITY

WATER & WASTEWATER FACILITIES PERMISSION TO TAP



NAME:_____

LOCATION:_____

DISTRICT:_____

_____ **For**
_____ **FACILITIES**

NTUA Project No. _____

NTUA WATER SERVICE TAP PROCEDURES

The following procedures are to be adhered to by customer(s) and/or private contractor(s) for all water and wastewater taps and line constructions involving NTUA systems.

Approval of the permission to tap form will be granted upon full compliance with NTUA's requirements. Non-compliance of these requirements and/or NTUA's construction and material standards will result in disapproval to tap and/or construction; and service will not be initiated until all discrepancies are corrected.

Listed below are the necessary steps (check list) for all concerned parties to follow. When construction is completed and all pertinent information and documents are compiled and submitted; the District Manager and Water/Wastewater Foreman will approve and submit a copy of the final transfer package to the NTUA HQ Civil Engineering Dept. NOTE: The NTUA does not accept operation and maintenance responsibilities for customer sewer service lines or septic tank systems. These will be the customer's responsibility.

1. ☐ Permission to tap forms initiated at the local NTUA District office. The respective NTUA District office shall provide the necessary information and plans required to the customer/requestor; and assist the requestor in completing the forms. All the necessary information required from the customer to complete the form should be obtained at this point.

2. ☐ Proposed Construction Plans and Specifications: The completed permission to tap form and the proposed construction plan(s) are to be submitted to the District Manager and Water/Wastewater Foreman for their review and approval, at least 10 working days prior to construction. Utilize the attached forms provided, WS-1d or WWS-1d, for the "Proposed Construction" plans and use the NTUA legends; with direction indicated by the North arrow. Include the location of septic systems. The forms are for residential installations only. Commercial projects shall submit three (3) sets of plans for both the water and sewer combined.

3. ☐ Standard Material Listing: The respective NTUA District Office will review the standard drawings (WS-1, WS-2, WS-3, SS-1) and select the drawing(s) that apply. Please note the standard drawings are for 1" and 2" water services and 4" wastewater services only. Water service(s) over 2" and wastewater service(s) over 4", will require deviation from the standard construction drawings and material listings. Contact NTUA HQ Civil Engineering Dept. for any deviation. Note: The NTUA does not compensate customers for any donated materials.

4. ☐ Rights-of-Ways: the customer and/or contractor will be responsible for obtaining Rights-of-Ways and/or clear Grants of Easements; to be submitted with the permission to tap forms.

5. (___) The customer(s) shall provide copies of home-site lease or land use permits, archeological clearances, deposits, service applications, customer meter requests, and etc.
6. (___) Pressure readings, elevations, and system as-built ties information: these are to be provided on both the proposed and the as-built drawings. Flow requirements and demand should be submitted to size the meter and/or verify wastewater system capacity. The NTUA can assist customer(s) in determining these requirements.
7. (___) Open Trench Policy: NTUA may monitor the tap and construction of water and wastewater facilities. It is important to notify one of the main contact persons at NTUA at least three working days prior to actual construction.
8. (___) Final Inspection: All discrepancies/deficiencies shall be corrected by the customer and /or contractor and verified by NTUA.
9. (___) As-built requirements and cost of plant: Very Important! The NTUA requires as-constructed as-built drawings with swing ties and all pertinent information, to be submitted upon completion. Please submit a cost of plant list up to the metering point, of the following: (The cost of plant should be attached to the TA as Exhibit "A".)

- A. MATERIALS (List of items installed.)
- B. LABOR
- C. EQUIPMENT
- * D. TOTAL

* Total cost of plant to be included on transfer agreement.

10. (___) The customer(s) and/or contractor(s) shall provide NTUA a one-year warranty period on workmanship and materials. The Transfer Agreement will document the beginning date of the warranty period and it will authorize the NTUA to incorporate the capitalized portion of the project (see Item 9, the cost of plant) into the plant records; and to operate and maintain such facilities. (See attached Transfer Agreement.)
11. (___) Initiation of service by the NTUA.
12. (___) Submit a copy of the **Transfer Package** to NTUA HQ Civil Engineering. Provide copies to customer(s) and respective NTUA District Office.

- A. **Complete Construction As-Built drawings with NTUA system tie information.**
- B. **R.O.W. Agreement/Grant of Easement**
- C. **Final Inspection Certifications**
- D. **Completed Transfer Agreement w/Cost of Plant**

Instructions-Permission to Tap an existing NTUA Water line

This form is to be filled out and submitted to NTUA at least ten (10) working days prior to the requested date of construction of the tap. The ten (10) working days is to allow for the scheduling of an NTUA inspector and this does not imply that a full review with permission to tap being approved or disapproved will be issued in that time period.

Upon approval, a copy of the approved permission to tap form will be sent to the requestor with the local NTUA office retaining the original copy.

All addresses shall include the Zip Code. All telephone numbers shall include the Area Code.

1. a. Permanent addresses and telephone number of the requestor. In some cases this will be a contractor, if not the customer.

 b. Local address and telephone number.

 c. Vicinity location of the tap and/or project.
2. If the person to coordinate with NTUA is the same as item 1a, then write the appropriate number and letter in the name space. In most cases, this is the customer and not a contractor. If other than 1a, complete the information required.
3. Complete information required.
4. Self-explanatory.
5. Self-explanatory.
6. One copy of the PTT with the specifications and drawings is to remain at the local NTUA District Office. After review by the District Office, the original request form and copies of both the specifications and drawings are to be forwarded to the NTUA Headquarters Civil Engineering Department, unless this is an I.H.S./O.E.H. P.L. 86-121 project or a N.H.A. project.

If this is a P.L. 86-121 project, the documents will be sent to the NTUA Headquarters Special Operations Department. If this is a N.H.A. project, the documents will be sent to the NTUA NHA Projects Coordinator, NTUA Headquarters, Civil Engineering Department.

If both sewer and water taps are requested and covered in the same set of drawings and specifications, the original copy of the PTT and copies of the drawings and specifications are to be forwarded to the NTUA Headquarters Civil Engineering Department. Reproducible Mylar's or Sepias may be substituted for drawings forwarded to NTUA Headquarters since the Engineering Department can reproduce the copies required.

Under any “NO” conditions, other than P.L. 86-121 projects, attach a note of explanation.

Before forwarding the documentations to NTUA Headquarters, Civil Engineering Department, the local NTUA District Office will check the drawing(s) for:

- A. The basis of elevation as given by showing the bench-mark identification, location, and elevation;
 - B. A description of the tap point that gives specific ties to existing facilities and drawings in the NTUA files.
 - C. Detail drawing of tap point and materials to be used; may require submittals.
 - D. The portion of the proposed system that is to be transferred to NTUA for operations and maintenance is indicated, per attached ROW and/or Grant of Easement Documentation(s). Item “D” does not apply to P.L. 86-121 projects since this is covered in detail in other documents.
- 7. The type of service requested such as Residential Domestic, Commercial, or Industrial and Permanent or Temporary Service, (e.g., “Permanent Residential Domestic”), will be stated plus the meter size. If questions arise contact the NTUA Civil Engineering for assistance on information required for these entries on the request forms.
 - 8. Provide customer requested flows rates and demands required.
 - 9. If the customer requires both domestic and fire flow services, the NTUA may require a single or dual meter set up for this purpose based on flow rates required. Flow rates required shall be submitted.
 - 10. The hour of the day as well as the date, are expected entries in this space. Provide enough lead-time for tap approval and to schedule an inspector, a minimum of ten (10) working days.
 - 11. Signatures of customer(s) and/or contractor(s) responsible for tap construction and acceptance by NTUA.
 - 12. Self-explanatory.
 - 13. The District Engineering will do a complete review of the PTT with the assistance of the District Water Department.

14. The District Water Foreman will do a complete review of the PTT with the assistance of the District Engineering Dept. Attach a list of District operational constraints and current operating problems that affect or will be caused by the approval of this permission to tap. If there are no operational constraints or problems, write “NOP” beside the date of the signature.
15. Self-explanatory
16. The District Manager will do a complete review of the permission to tap forms and related documents.
17. Self-explanatory, per the local NTUA District office schedule.
18. Self-explanatory.
19. Unless otherwise noted, a list of restrictions, recommendations, conditions, notes, and etc. on the approval will be stated.

**PERMISSION TO TAP AN
EXISTING N.T.U.A. WATER LINE**

1. Requester

- a. NAME : _____
 TITLE : _____
 ORGANIZATION : _____
 PERMANENT : _____
 ADDRESS : _____
 TELEPHONE # : _____
- b. LOCAL ADDRESS : _____
 : _____
 LOCAL PHONE # : _____
- c. VICINITY/LOCATION: _____
 OF TAP/PROJECT _____

2. Person responsible for tap construction and its acceptance by the Navajo Tribal Utility Authority.

NAME : _____
TITLE : _____
ORGANIZATION : _____
ADDRESS : _____
 : _____
TELEPHONE # : _____

3. Person responsible for paying the Navajo Tribal Utility Authority for service after the construction is completed and accepted.

NAME : _____
TITLE : _____
ORGANIZATION : _____
ADDRESS : _____
 : _____
TELEPHONE # : _____

4. Date request is submitted to the Navajo Tribal Utility Authority.

DATE : _____

5. Submitted to:

NAME : _____
TITLE : _____
NTUA OFFICE : _____

6. Specifications and Drawings of proposed construction attached? _____ (Yes/No).

7. Actual Services:

ACTUAL NUMBER : _____

METER SIZE : _____

TYPE OF SERVICE : _____

REMARKS (Type of Building Served): _____

8. Water demand/customer requested flow rates and minimum available pressure at the meter outlet.

NORMAL : _____ GPM

PEAK : _____ GPM

PRESSURE : _____ PSI

@ ELEVATION OF : _____ FT. above MSL

9. Fire Flow Demand is not guaranteed and is based only on what the system will provide. FOR NTUA INFORMATION: Flow rate and minimum available pressure at the meter outlet.

	Sprinkler system	Total Fire Hydrant Flow
QUANTITY	: _____	_____ GPM
DURATION	: _____	_____ MINS.
PRESSURE	: _____	_____ PSI
SIMULTANEOUS USE	_____	(YES/NO)

10. Requested Date and Time of the actual construction of the tap: _____

11. I agree to adhere to the Navajo Tribal Utility Authority (NTUA) construction methods, material standards, line test procedures, disinfections requirements, water and wastewater construction policies, As-built drawing requirements, and tariff requirements, as they pertain to tapping the existing NTUA water and wastewater facilities; and the constructed utilities to be transferred to NTUA for operations and maintenance, with services provided by the NTUA thereafter.

Signature	Print	Date

Signature	Print	Date

Signature	Print	Date

12. Is this service downstream from a previous Master Metered area? ____ (Yes/No).

13. Specifications and proposed construction drawings reviewed by:

District Engineering Dept.

Date

14. Specifications and proposed construction drawings reviewed and approved by:

District W/WW Foreman

Date

*OCP? (Yes/No)

* "OC/P" = Operational constraints/problems. If YES, attach list of current operating problems that will affect PTT.

15. Assigned NTUA inspector's name.

Name/Title

16. Reviewed by District Manager.

Signature

Date

17. Approved time and date of construction of tap.

Time and Date: _____

18. Permission to Tap reviewed and approved by.

NTUA HQ, Civil Engineering Dept./Title

Date

19. Comments / Remarks:

FINAL INSPECTION FOR INDIVIDUAL FACILITIES

Homeowner's Name: _____

Address: _____

Location of Service: _____

Water System Name/Project No: _____

Description of Building Served: _____

Facilities Installed: ☐ Water line/Water tap
 ☐ Sewer line/Sewer tap
 ☐ Sewer septic system. Note: For information only.

Construction Completion Date: _____

Construction As-Built provided
To Operating Utility: Date:_____ By:_____

Final Inspection Date: _____

Attendees: NAME(S) REPRESENTING:

The facilities indicated above have been completed and inspected, with all deficiencies (if any) corrected to NTUA's requirements and such facilities have been transferred to NTUA per the **"Transfer Agreement"** for normal operation and maintenance.

_____ will warranty these facilities against defects in material and workmanship for one year, beginning _____ and ending _____.

Customer's Signature/Date

NTUA Representative/Title/Date

WATER/WASTEWATER TEST CERTIFICATIONS

DISTRICT: _____ DATE: _____

WATER SYSTEM

CUSTOMER: _____

LOCATION: _____

LOCATION OF LINE TESTED: _____

LENGTH, SIZE, & TYPE OF PIPE: _____

DATE OF TEST(s): _____ PASSED : _____ *FAILED: _____

*If FAILED, waterline must be re-tested.

PRESSURE TEST RESULTS: (Attach work sheets)

1.	Test Pressure	:	_____	PSI..
2.	Duration of Test	:	_____	HRS.
3.	Allowable Leakage	:	_____	Gals.
4.	Total Leakage	:	_____	Gals.

DATE (Water Sample to Lab) : _____ Lab no.: _____

RESULTS OF BACTEE: _____ PASSED : _____ *FAILED: _____

*If FAILED, water must be re-sampled.

TEST RESULTS CERTIFIED BY: _____

NTUA REPRESENTATIVE / TITLE DATE

WASTEWATER SYSTEM

CUSTOMER: _____

LOCATION: _____

DATE OF TEST(s): _____

LOCATION OF LINE TESTED: _____ SECTION OF _____

LENGTH, SIZE, & TYPE OF PIPE: _____

SIZE, & TYPE OF MANHOLE (S): _____

WASTEWATER TESTS: (Attach work sheets)

1.	Line Test*	:	_____	Gal/Section/2 hrs.
2.	Manhole Test**:	:	_____	Gal/MH/2 Hrs.

TEST RESULTS CERTIFIED BY: _____

NTUA REPRESENTATIVE / TITLE DATE

* Allowable Leakage: ≤ 1 Gal./Section/2hrs. for 8" to 12" lines, regardless of length, with 4 feet of head test pressure.

** Allowable Exfiltration: ≤ 5 gal/MH/2 hrs. regardless of height.

UTILITY TRANSFER AGREEMENT
for
WATER AND WASTEWATER FACILITIES

This agreement is made between _____, hereinafter called the Grantor and the **NAVAJO TRIBAL UTILITY AUTHORITY**, hereinafter called the Grantee.

WHEREAS, the Grantor has constructed or caused to have constructed water and wastewater facilities located at or near _____ as shown on the plans titled _____, designed by _____, and dated _____ and said facilities and related final as-built plans already have been inspected, accepted and approved by the Grantee, and;

WHEREAS, the Grantor wishes to convey to the Grantee all his interest in these facilities and appurtenances constructed at the above-mentioned location on or about the above-mentioned time, along with all rights, rights of way, and privileges so that the Grantee may own, operate, and maintain all such facilities and appurtenances.

NOW THEREFORE IT IS AGREED:

For consideration of \$1.00 the receipt of which already has been acknowledged, the Grantor transfers, assigns, grants, and conveys to the Grantee all rights, titles, interests, easements, and rights of way in the aforementioned facilities, and;

The Grantee agrees to accept such aforementioned facilities, and further agrees to own, operate, and maintain such facilities in a reasonable and prudent manner until such facilities are determined to be no longer of any value. Further, the Grantor hereby warranties all such facilities against defects in workmanship and materials, and for design deficiencies, errors and omissions for the period of one year beginning on _____ and ending on _____.

A listing of the total inventory and Cost of Plant determined by the Grantor to be transferred to the Grantee is attached as EXHIBIT____ and made a part of this Utility Transfer Agreement. The total Cost of Plant as appears on this document is \$_____.

IN WITNESS THEREOF, both parties have signed and dated this agreement.

Grantor

Signature

Date:

Print Name/Title

Navajo Tribal Utility Authority: _____

Signature

Date

Print Name/Title

APPENDIX G

Survey Authorization Forms

- **Owner Provided Survey Request Form**
- **Authorization Form for Contractor Reimbursed Work**
- **Acknowledgement of Contractor Reimbursed Standby Time**

SOUDER, MILLER & ASSOCIATES

3451 Candelaria NE, Ste. A-D
Albuquerque, NM 87107
Phone: (505) 256-7364 FAX: (505) 256-7600
www.soudermiller.com

OWNER-PROVIDED SURVEY REQUEST FORM

(48-Business Hours notice required for scheduling crews)

CONTRACTOR: _____

CLIENT JOB #: _____

CONTACT: _____

PHONE: _____

CLIENT ADDRESS: _____

FAX: _____

JOB NAME: Navajo Gallup Water Supply Project -
Reaches 24.1 & 25

SMA JOB #: 6921307

TYPE OF WORK REQUESTED:

EASEMENT LINE ☐ CULTURAL AREA LINE ☐ STRUCTURE/FOUNDATION ☐

TCE LINE ☐ ABC BLUE TOPS ☐ PUMP STATION ☐

WATER LINE ☐ SUBGRADE RED TOPS ☐ TANK BENCHMARK ☐

CENTERLINE STAKING ☐ ACCESS/TURNOUT ROAD ☐ FINAL AS-BUILT SURVEY ☐

FENCING ☐ OTHER (DESCRIBE): ☐ _____

WHAT OFFSETS ARE REQUIRED?* (i.e. 10' left, 3' south, etc.):

**Note: If off-sets are not specified but found necessary due to field conditions calculations charges may apply.*

LIMITS/LOCATIONS OF WORK REQUESTED (i.e. sta-sta, point numbers, etc.):

FROM STATION: _____ TO STATION: _____

OTHER: _____

DAY/DATE REQUESTED: _____ ARRIVAL TIME REQUESTED**: _____

***Note: If unreasonable delays to survey crew occur due to project readiness, standby fees may apply.*

PRINT NAME OF PERSON REQUESTING WORK: _____

TITLE: _____

SIGNATURE: _____

CELL PHONE #: _____

Return this request via FAX to: Kelly Melton at (505) 256-7600



Souder, Miller & Associates
3451 Candelaria Rd. NE Suite-A
Albuquerque, New Mexico 87107
Phone: (505) 256-7364 FAX: (505) 256-7364
www.soudermiller.com

AUTHORIZATION FORM FOR CONTRACTOR REIMBURSED WORK

CONTRACTOR: _____

CONTACT: _____ PHONE: _____

ADDRESS: _____ FAX: _____

JOB LOCATION/DESCRIPTION: Navajo Gallup Water Supply Project Reaches 24.1 & 25 SMA JOB # 6921307

DESCRIPTION OF WORK REQUESTED: _____

Change Order (additional to work scope)? _____

Re-Stake (Stakes destroyed or missing)? _____

<u>TITLE</u>	<u>*PER HOUR</u>	<u>Est. Hours</u>	<u>TITLE</u>	<u>*PER HOUR</u>	<u>Est. Units</u>
Professional Land Surveyor	\$120.00		Project Surveyor/Manager	\$92.00	
2-Man Crew (GPS/Total Station)	\$159.00		CADD Drafting	\$80.00	
1-Man Crew (GPS/Total Station)	\$112.00		Vehicle Mileage (per mile)	\$0.60	

*Total Estimated Hours: _____ *Estimated Fee: _____

**Estimated hours and fees are for information only, actual hours worked will be used and attached to the final invoice along with a copy of this approval sheet.*

NOTES: _____

By signing below I acknowledge that the work outlined above is approved and will be submitted for additional billing at the contract hourly rates. I further acknowledge that I am authorized by the CONTRACTOR to commit additional project resources.

PLEASE NOTE: SMA field staff members are not authorized to complete any additional work without execution of this form. Additional remobilization to complete additional work on subsequent trips will be in addition to original bid amounts.

CLIENT REPRESENTATIVE SIGNATURE: _____ Print: _____

DATE: _____ TITLE: _____

SMA REPRESENTATIVE SIGNATURE: _____ Print: _____

DATE: _____



Souder, Miller & Associates
3451 Candelaria Rd. NE Suite-A
Albuquerque, New Mexico 87107
Phone: (505) 256-7364 FAX: (505) 256-7600
www.soudermiller.com

ACKNOWLEDGEMENT OF CONTRACTOR REIMBURSED STANDBY TIME

CONTRACTOR: _____

CONTACT: _____ PHONE: _____

ADDRESS: _____ FAX: _____

JOB LOCATION/DESCRIPTION: Navajo Gallup Water Project - Reaches 24 & 25.1 SMA JOB # 6921307

DESCRIPTION OF TASK THAT IS DELAYED: _____

<u>TITLE</u>	<u>*PER HOUR</u>	<u>Est. Hours</u>	<u>TITLE</u>	<u>*PER HOUR</u>	<u>Est. Units</u>
Professional Land Surveyor	\$120.00		Project Surveyor/Manager	\$92.00	
2-Man Crew (GPS/Total Station)	\$159.00		CADD Drafting	\$80.00	
1-Man Crew (GPS/Total Station)	\$112.00		Vehicle Mileage (per mile)	\$0.60	

*Total Estimated Hours: _____ *Estimated Fee: _____

**Estimated hours and fees are for information only, actual standby hours will be used and attached to the final invoice along with a copy of this approval sheet.*

NOTES: _____

By signing below I acknowledge that the SMA survey representative(s) are at the project site at the requested time but are unable to complete planned activities due to conditions beyond the control of SMA. I further acknowledge that any standby time in excess of 0.5 hour cumulative per day will be submitted for additional billing at the contract hourly rates. (Alternatively the crew may be released; however, additional mobilization charges may apply.) I further acknowledge that I am authorized by the CONTRACTOR to commit additional project resources.

PLEASE ALSO NOTE : SMA field staff members are not authorized to remain at the job site on standby in excess of 0.5 hour cumulative per day without execution of this form .

CONTRACTOR REP. SIGNATURE: _____ Print: _____

DATE: _____ TITLE: _____

SMA REPRESENTATIVE SIGNATURE: _____ Print: _____

DATE: _____



EXHIBIT A

Geotechnical Investigation Report

- Geotechnical Investigation for Proposed Tanks, Pump, Surge, and Chlorinator Buildings and Water Pipeline, Project No. 13-1-027rev, X8e Vinyard, April 29, 2013.
- Revised Soil Shrinkage Factors, Project No. 13-1-027, X8e Vinyard, September 18, 2013.

Note: The following clarification is made within Article 1.3.J of Section 01 00 00 of the Technical Specifications with regard to geotechnical reports.

Exhibit A to the Contract Documents contains geotechnical reports which include shrinkage factors, in-situ soil moisture measurements, and Standard Proctor test results (including optimal moisture content) from test holes at various locations within the project area. Contractor is advised that test holes reveal information about only a very small area, and sub-surface conditions between the test holes may vary. Contractor is wholly responsible for any assumptions made about sub-surface conditions between the test holes. Moreover, in-situ moisture content varies with time, and the Owner makes no representation that the in-situ moisture at the time the measurements were taken will be the same at the time of construction. The results of the Proctor and in-site moisture tests are provided for Contractor's convenience only; they are not considered "Technical Data", as defined in Article 5.03 of the General Conditions, upon which the Contractor is entitled to base his/ her bid.

1. The Contractor is entitled, however, to rely upon the soil bearing capacity and other geotechnical design criteria for the design of tank and building foundations at the pump station and tank sites. Moreover, the Contractor shall be required to follow the recommendations of the geotechnical report for building & tank foundation design, sub-foundation, and overexcavation.

GEOTECHNICAL INVESTIGATION NGWSP REACHES 24.1 AND 25: PROPOSED WATER TANKS, PUMP, SURGE, CHLORINATOR BUILDINGS, AND WATER PIPELINE

Prepared for:
Souder, Miller & Associates

Presented By:



8916-A Adams St., NE
Albuquerque, NM 87113
Office: 505.797.9743
ContactUs@X8eVinyard.com

Project No.: 13-1-027rev

April 29, 2013

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1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the NGWSP Reaches 24.1 and 25, for;

Site 1: 1Mgal Counselor water tank

Site 2: Booster Pump Site consisting, of a Booster Pump Building and Surge tank building

Site 3: Ojo Encino tanks site, consisting of a 300 kgal water tank, a 100 kgal water tank, and a chlorinator building.

A water pipeline is also proposed that reportedly extends from Site 1, the Counselor water tank site through Site 2, the booster pump site and surge tank building, and ending at Site 3, the Ojo Encino Tanks and chlorinator site.

The investigation was performed to determine site subsurface conditions; and, based upon the conditions observed in the test holes, to develop geotechnical recommendations for:

Foundation Design;
Lateral Earth Pressures;
Site Grading; and
Earthwork Construction.

The conclusions and recommendations presented are based on information provided to us regarding the proposed development, on subsurface conditions disclosed by the test holes, on laboratory testing, and upon the local standards of our profession at the time this report was prepared.

This investigation was not performed to determine the presence of potentially hazardous waste or radon gas. Determination of the presence of potentially hazardous materials was beyond the scope of this investigation and requires the use of exploration techniques and analytic testing which were not appropriate for this investigation. If desired, X8e Vinyard will perform an environmental audit of the site.

2.0 PROPOSED CONSTRUCTION

We anticipate the sites will be developed as detailed below:

Site 1; 1 Mgal Counselor Water Tank Site: It is our understanding that the proposed tank will be constructed with steel and concrete with a capacity of 1,000,000 gallons. The proposed tank will be 20 feet high, and 84 feet in diameter. Column and wall loads are not anticipated to exceed 40 kips and 4 kips per foot (dead + live), respectively.

Site 2; Booster Pump Site: It is our understanding that the proposed construction will consist of a 30 feet by 15 feet, slab on grade, pre-fabricated pump building. Also, the surge tank building will consist of a slab on grade, 25 feet by 30, constructed with Concrete Masonry Units (CMU).

Site 3; Ojo Encino Tanks and Chlorinator Building Site: It is our understanding that the proposed two tanks will be constructed of steel and concrete with capacities of 300,000 gallons, and 100,000 gallons. The dimensions of the tanks are 52 feet in diameter and 20 feet high, and 20 feet in diameter and 42 feet high, respectively. The Chlorinator building will be constructed with

slab on grade pre-fabricated concrete and having dimensions of 15 feet by 9 feet. The 300,000 gallon water tank column and wall loads are not anticipated to exceed 40 kips and 6 kips per foot (dead + live), respectively. For the 100,000 gallon water tank, column and wall loads are not anticipated to exceed 60 kips and 8 kips per foot (dead + live), respectively.

It is our understanding that the proposed tanks will be placed on a prepared earthen pads with steel retainer rings. If structure loads or configuration differ from those indicated in this report, this office shall be notified.

Waterline: It is our understanding that the Transmission Line will consist of placing approximately 10.7 lineal miles of 14 inch diameter PVC pipeline. It is also our understanding, that high density polyethylene pipe with 14 inch diameter equivalent diameter will be placed in the washes and low areas.

Final site grading plans were not available during preparation of this report. We anticipate that limited cut/fill earthwork will be required to develop the various sites.

3.0 SITE CONDITIONS

3.1 Site 1: 1Mg Counselor Water Tank Site

The site is vacant to the north and east. The site is bound to the south by an unpaved road, to the west by an eight foot high chain linked fence enclosing two existing water tanks. The site slopes towards the south. Vegetation on-site consists of juniper trees, with some native brush, grass and weeds.

3.2 Site 2: Booster Pump Site

The site is vacant to the north, south and east. The site is bound to the west by an unpaved road. The site slopes towards the southwest. Vegetation on-site consists of native brush, grass, and weeds.

3.3 Site 3: Ojo Encino Tanks and Chlorinator Building Site

The site is on a hilltop. The site is vacant to the north, south, and east. The site is bound to the west by an 8 foot high chained linked fence enclosing an existing water tank. The site slopes towards the north, south, east and, west. Vegetation consists of juniper trees, with native brush, grass and weeds.

3.4 Waterline

The proposed waterline extends along an existing unpaved road and crosses several washes. Generally, the waterline starts from Site 1, the 1Mg Counselor Water Tank Site, to Site 2 Booster Pump Site, and ends at Site 3, Ojo Encino Tanks and Chlorinator Building Site. Vegetation consists of juniper trees, native brush, grass and weeds. The slope varies along the proposed waterline. Slope ascends towards the hilltop at Site 3, Ojo Encino tanks and chlorinator building Site.

4.0 SITE SUBSURFACE CONDITIONS

Subsurface conditions encountered at each of the sites are discussed below.

4.1 Site 1: 1Mg Counselor Water Tank Site

To explore the site subsurface conditions, two test pits were excavated to maximum depths of six feet below the existing ground surface and two test holes were drilled to depths of about 26 feet below the existing ground surface, at the approximate locations indicated on the Site Plan, Figure 1A. Logs of the Test Pits are numbered T-1 and T-2, and Test Holes, are numbered B-1 and B-2. The Test pits and Test Hole logs are presented on Figures 2 and 3, and 12 and 13, respectively. To a depth of approximately five feet, the Test Pits and Test Holes encountered soils described as SAND, silty, medium grained, loose to medium dense and slightly moist. At about 5 feet below the existing ground surface, the silty Sand soils encountered were medium dense to very dense. At a depth of eight feet the test holes encountered sandstone. The sandstone was fine to medium grained, massive and hard.

Flowing groundwater was not encountered in the test holes to a depth of 26 feet, the maximum depth of exploration. However, groundwater conditions may change with time due to precipitation, variations in groundwater level, seepage from ponding areas, or leaking utilities.

The soils encountered in the test holes exhibit a limited consolidation potential under the anticipated structural loads. Moderate consolidation (collapse) occurs when site soils increase in moisture content. Refer to Figures 26 through 31.

The test holes allows observation of a very small portion of the soils below the site. Significant variations in subsurface conditions may occur across the site, which were not disclosed by the test holes.

4.2 Site 2: Booster Pump Site

To explore the site subsurface conditions, four test holes were drilled to depths of about 26 feet, at the approximate locations indicated on the Site Plan, Figure 1B. Logs of the Test Holes are presented on Figures 14 through 17 (Test Hole Numbers B-3 through B-6). The soils encounter in our test holes consisted of silty SAND, fine grained and slightly moist. These soils were medium dense and slightly moist.

Flowing groundwater or competent bedrock were not encountered in the test holes to a depth of 26 feet, the maximum depth of exploration. However, groundwater conditions may change with time due to precipitation, variations in groundwater level, seepage from ponding areas, or leaking utilities.

The soils encountered in the test holes exhibit a limited consolidation potential under the anticipated structural loads. Moderate consolidation (collapse) occurs when the silty sands increase in moisture content. Refer to Figures 32 through 35.

The test holes allow observation of a very small portion of the soils below the site. Significant variations in subsurface conditions may occur across the site, which were not disclosed by the test holes.

4.3 Site 3: Ojo Encino Tanks and Chlorinator Building Site

To explore the site subsurface conditions, seven test pits were excavated to depths from two to six and a half feet at the approximate locations indicated on the Site Plan, Figure 1C. The logs of the Test pits are presented on Figures 8 through 11, Test Pits numbered T-13 through T-19. The test pits encountered weathered Sandstone, consisting of SAND and slightly silty SAND. Below the SAND and slightly silty SAND, the test pits encountered bedrock consisting of Sandstone, slightly weathered to un-weathered to well indurated, and very dense, at depths ranging from two to six and a half feet below the existing ground surface.

Flowing groundwater was not encountered in the test pits to a depth of six and a half feet, the maximum depth of exploration. However, groundwater conditions may change with time due to precipitation, variations in groundwater level, seepage from ponding areas, or leaking utilities.

The test pits allow observation of a very small portion of the soils below the site. Significant variations in subsurface conditions may occur across the site, which were not disclosed by the test pits.

4.4 Waterline approximately 10.7 miles

To explore the site subsurface conditions, ten Test Pits were excavated, to depths of about six feet for the purpose of determining in-place densities. An additional five Test Holes were drilled, to about 21 feet, at the approximate locations indicated on the Site Plan, Figure 1. The logs of the Test Pits are presented on Figures 3 through 7 (Test Pits numbered 3 through 12). The Test Holes are presented in Figures 18 through 22 (Test Holes numbered 7 through 11). The Test Pits and Test Holes encountered silty SAND and sandy lean CLAY. Test hole B-7 and test pit T-6 encountered competent sandstone at depths of five feet and three feet respectively. Results of the in-place-densities and Standard Proctors are presented in Table 2 and Figures 23 through 25, respectively.

Flowing groundwater was not encountered in the test holes to a depth of 21 feet, the maximum depth of exploration. However, groundwater conditions may change with time due to precipitation, variations in groundwater level, seepage from ponding areas, or leaking utilities.

The test holes allow observation of a very small portion of the soils below the site. Significant variations in subsurface conditions may occur across the site, which were not disclosed by the test hole.

5.0 LABORATORY TESTING

A laboratory testing program was performed on samples obtained during the field investigation which appeared representative of the soils encountered in the test holes. The laboratory testing program was structured to determine the physical properties of the soils encountered in the test holes necessary for development of geotechnical recommendations.

The laboratory testing program included:

- Moisture Content;
- Dry Density;
- Sieve Analysis;
- Atterberg Limits;
- Consolidation/Collapse; and
- Standard Proctor Testing.

Moisture Content and Dry Density tests were performed to evaluate the in-place soil density and moisture content. Test results help to evaluate settlement potential. Test results are presented on the Logs of Test Holes, Figures 2 through 13, and are summarized on Table 1. Test results indicate the soils encountered in the test holes are medium dense to very dense, with an average dry density of approximately 102 pounds per cubic foot. Natural moisture content averaged approximately 4.0 percent.

Sieve Analysis and Atterberg Limits tests were performed to confirm field soil classifications and to provide information on general physical soil properties. Test results are presented on Table 1.

Consolidation/Collapse tests were performed to evaluate structure settlement and to determine the effect of water on site soils. Test results are presented on Figures 26 through 35.

In place density testing was performed in accordance to ASTM D-6938, on the proposed waterline in Test Pits T-3 through T-12, to determine the in-place density, three Standard Proctors were performed in conformance to ASTM D-698. Test results of the in-place densities are presented in Table 2.

6.0 FOUNDATIONS

6.1 Site 1: 1Mg Counselor Water Tank Site

If the recommendations presented in this report are implemented particularly those regarding site grading and drainage, the proposed structure may be supported on either a structural slab with thickened edges and integral columns or a steel floor. Foundations and the structural slab or steel floor should bear on a minimum of four feet of engineered fill. Engineered fill should extend a minimum of five feet laterally beyond the tank perimeter and two feet laterally beyond foundations. Foundations may be designed for an allowable bearing pressure of 2,000 pounds per square foot. This value may be increased by one-third for short-term loads due to wind and earthquakes. If it is not feasible to implement the site grading, drainage, and landscaping recommendations presented herein, an alternate foundation system may be required. This office should be contacted for additional recommendations.

The base of exterior footings should be embedded a minimum of twenty-four inches below lowest adjacent grade. The base of interior footings should be embedded a minimum of twelve inches below finish pad grade. Spread footings and turned down edges should be a minimum of twenty-four and twelve inches wide, respectively. However, local building codes may require greater dimensions.

Lateral foundation loads will be resisted by a combination of passive soil pressure against the sides of footings and friction along the base. A passive soil resistance of 300 pounds per cubic foot may be utilized for design. Frictional resistance may be determined by multiplying foundation dead load by a coefficient of friction of 0.40.

For structural design of the slab or steel floor, a modulus of subgrade reaction of 400 kips per cubic foot may be utilized. This value is for a 1' x 1' square or a 1' wide strip. The above value may be modified for various effective widths based upon the following equation:

$$K_s = 400 \left[\frac{B+1}{2B} \right]^2$$

K_s = Modulus of subgrade reaction
(kips per cubic foot)

B = Effective width of loaded area
(feet)

Post-construction settlement of the slab is not anticipated to exceed one inch. The above settlement estimate is based on the assumption the site soils will not be allowed to increase in moisture content and that the site grading, drainage, earthwork, and landscaping recommendations presented in this report and the applicable building codes will be fully implemented.

The site soils are collapsible if allowed to increase in moisture content. If the soils supporting footings are allowed to increase in moisture content, additional settlement of 1/8 inch per foot of wetted soil could occur.

Foundations should be designed and constructed to tolerate the above settlement. Foundations should be designed by a qualified structural engineer.

Based upon the results of this investigation and our previous experience in the site vicinity, an International Building Code Site Classification of "B" may be utilized for design.

Prior to fill placement and following footing excavation, the natural soils shall be scarified to a minimum depth of eight inches and moistened to near optimum moisture content ($\pm 3\%$). The exposed soils shall then be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557. All fill below structures shall be placed and compacted as detailed in the attached Appendix. Prior to placing concrete, footing excavations shall be cleaned of any slough, loose soil, or debris. Footing excavations shall be compacted as detailed in the attached Appendix.

6.2 Site 2: Booster Pump and Surge Tank Buildings Site

The proposed pump and surge tank buildings may be supported on a monolithic structural slab with turned down edges. Foundations and the structural slab should bear on a minimum of two feet of engineered fill. Engineered fill should extend a minimum of five feet laterally beyond the buildings perimeter and two feet laterally beyond foundations. The slabs may be designed for an allowable bearing pressure of 1,500 pounds per square foot. This value may be increased by one-third for short-term loads due to wind and earthquakes. If it is not feasible to implement the site grading, drainage, and landscaping recommendations presented herein, an alternate foundation system may be required. This office should be contacted for additional recommendations. The slab should include a turned down edge which extends a minimum of twenty-four inches below lowest adjacent grade. The turned down edge should be a minimum of twelve inches wide. However, local building codes may require greater dimensions.

Lateral foundation loads will be resisted by a combination of passive soil pressure against the sides of footings and friction along the base. A passive soil resistance of 300 pounds per cubic foot may be utilized for design. Frictional resistance may be determined by multiplying foundation dead load by a coefficient of friction of 0.40.

For structural design of the slab, a modulus of subgrade reaction of 400 kips per cubic foot may be utilized. This value is for a 1' x 1' square or a 1' wide strip. The above value may be modified for various effective widths based upon the following equation:

$$K_s = 400 \left[\frac{B+1}{2B} \right]^2$$

K_s = Modulus of subgrade reaction
(kips per cubic foot)

B = Effective width of loaded area
(feet)

Post-construction settlement of the slab is not anticipated to exceed one inch. The above settlement estimate is based on the assumption the site soils will not be allowed to increase in moisture content and that the site grading, drainage, earthwork, and landscaping recommendations presented in this report and the applicable building codes will be fully implemented.

The site soils are collapsible if allowed to increase in moisture content. If the soils supporting footings are allowed to increase in moisture content, additional settlement of 1/8 inch per foot of wetted soil could occur.

Foundations should be designed and constructed to tolerate the above settlement. Foundations should be designed by a qualified structural engineer.

Based upon the results of this investigation and our previous experience in the site vicinity, an International Building Code Site Classification of "D" may be utilized for design.

Prior to placing slabs or structural fill, the natural soils should be stripped of vegetation, scarified to a depth of eight inches, and moistened to near optimum ($\pm 3\%$) moisture content. The exposed soils should then be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557. All fill below slabs should be placed and compacted as detailed in the attached Appendix.

6.3 Site 3: Ojo Encino Tanks and Chlorinator Building Site

Sandstone bedrock was encountered at depths ranging from 2 to 6½ feet below the existing ground surface. To reduce stress concentrations on the foundations and tank bottom, the pads should be over excavated as necessary to allow placement of a minimum of two feet of fill below foundations, floors, and slabs. The fill should extend a minimum of five feet laterally beyond the structure perimeter.

If the recommendations presented in this report are implemented particularly those regarding site grading and drainage, the proposed structure may be supported on a structural slab with thickened edges and integral columns. The tank may be founded upon either a structural slab or a steel floor with a steel retainer ring. Foundations, structural slabs and steel floors shall bear on a minimum of two feet of engineered fill. Engineered fill shall extend a minimum of five feet laterally beyond the tanks and chlorinator building perimeters and two feet laterally beyond foundations. Foundations may be designed for an allowable bearing pressure of 2,000 pounds per square foot. This value may be increased by one-third for short-term loads due to wind and earthquakes. If it is not feasible to implement the site grading, drainage, and landscaping

recommendations presented herein, an alternate foundation system may be required. This office shall be contacted for additional recommendations.

The base of exterior footings shall be embedded a minimum of twenty-four inches below lowest adjacent grade. The base of interior footings shall be embedded a minimum of twelve inches below finish pad grade. Spread footings and thickened edges shall be a minimum of twenty-four and twelve inches wide, respectively. However, local building codes may require greater dimensions.

The base of the retainer ring shall be embedded to a minimum depth of twenty-four inches.

Lateral foundation loads will be resisted by a combination of passive soil pressure against the sides of footings and friction along the base. A passive soil resistance of 300 pounds per cubic foot may be utilized for design. Frictional resistance may be determined by multiplying foundation dead load by a coefficient of friction of 0.40.

Prior to fill placement and following footing excavation, the natural soils shall be scarified to a minimum depth of eight inches and moistened to near optimum moisture content ($\pm 3\%$). The exposed soils shall then be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557. All fill below structures shall be placed and compacted as detailed in the attached Appendix. Prior to placing concrete, footing excavations shall be cleaned of any slough, loose soil, or debris. Footing excavations shall be compacted as detailed in the attached Appendix.

Settlements at the center and the edge of the tanks are not anticipated to exceed one inch and $\frac{1}{2}$ inch respectively. The above settlement estimates are based on the assumption the site soils will not be allowed to increase in moisture content and that the site grading, drainage, earthwork, and landscaping recommendations presented in this report will be fully implemented. The majority of this settlement should occur during and shortly following first filling of the tanks.

The site soils are moisture-sensitive. If the soils supporting footings are allowed to increase in moisture content, additional movement of $\frac{1}{8}$ inch per foot of wetted soil could occur.

Foundations shall be designed and constructed to tolerate the above settlement. Foundations shall be designed by a qualified structural engineer.

For structural design of the tanks, a modulus of subgrade reaction of 400 kips per cubic foot may be utilized. This value is for a 1' x 1' square or a 1' wide strip. The above value may be modified for various effective widths based upon the following equation:

$$K_s = 400 \left[\frac{B+1}{2B} \right]^2$$

K_s = Modulus of subgrade reaction
(kips per cubic foot)

B = Effective width of loaded area
(feet)

Based upon the results of this investigation and our previous experience in the site vicinity, an International Building Code Site Classification of "C" may be utilized for design.

7.0 CONCRETE SLABS-ON-GRADE

Concrete slabs-on-grade may be utilized for the 1 Mgal, 300 kgal, 100kgal tanks, pump station, surge tank, and chlorinator buildings. Slabs shall bear on a minimum of four feet of structural fill for the 1Mgal tank, pump station and surge tank at the Counselor and Booster pump sites, respectively. Slabs shall bear on a minimum of two feet of structural fill for the 300 kgal, 100 kgal and chlorinator buildings, a the Ojo Encino site.

Thickened slabs may be utilized to support interior partitions. Thickened slabs should be a minimum of twelve inches in width and should be designed to exert a maximum earth pressure of 500 pounds per square foot. Wall loads on thickened slabs should not exceed 800 pounds per linear foot. The thickness and reinforcement should be determined by a qualified structural engineer.

Slabs shall be adequately reinforced with steel. Reinforcement shall be placed in the middle of the slab. Slab reinforcement should be turned down into turned down edges. Reinforcement should be designed by a structural engineer.

Vibratory equipment should be mounted on equipment pads isolated from the slab. Prior to placing slabs or structural fill, the natural soils shall be stripped of vegetation, scarified to a minimum depth of eight inches, and moistened to near optimum ($\pm 3\%$) moisture content. The exposed soils shall then be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557. All fill below slabs shall be placed and compacted as detailed in the attached Appendix.

8.0 EARTHWORK - STRUCTURES

8.1 General

The recommendations presented in this report are based upon the assumption that site earthwork will be performed as recommended in this report and the attached Appendix. Presented below is a summary of the site earthwork recommendations. Detailed earthwork procedures are presented in the attached Appendix.

8.2 Clearing and Grubbing

Prior to placing structural fill, all borrow and fill areas shall be stripped of vegetation and deleterious materials. All strippings shall be hauled off-site or utilized in landscaped areas.

All existing fill, utilities, leach fields, and disturbed soil shall be removed from below the proposed structures. The resulting excavations should be backfilled with compacted fill as detailed in the attached Appendix.

8.3 Excavation

We anticipate that on-site soils can be excavated with conventional earthwork equipment. A few cobbles or boulders may be encountered during excavation. However, if encountered,

cobbles and boulders shall be disposed of off-site or utilized for landscaping. Cobbles and boulders shall not be placed within structural fills.

Excavation of the sandstone will require the use of a hoe ram or a trenching machine equipped with carbide teeth.

8.4 Natural Ground Preparation

Prior to placing structural fill and subsequent to final grading in cut areas, the exposed soils shall be scarified to a minimum depth of eight inches and moisture conditioned to near optimum ($\pm 3\%$) moisture content. The exposed soils shall then be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557. However, it is not necessary to scarify or compact competent sandstone.

8.5 Fill Placement and Compaction

Structural fill shall be placed in horizontal lifts a maximum of eight inches in loose thickness, moisture conditioned to near optimum moisture content, and mechanically compacted. Fill below footings and slabs shall be compacted to a minimum of 95% of maximum dry density as determined by ASTM D-1557. Most of the on-site native soils appear satisfactory for re-use as engineered fill.

8.6 Observation and Testing

Placement and compaction of structural fill shall be observed and tested by a qualified geotechnical engineer or his representative. The purpose of the observation and testing is to confirm that the recommendations presented herein are followed and to provide supplemental recommendations, if subsurface conditions differ from those anticipated.

9.0 EARTHWORK – TRANSMISSION LINE

Backfill in utility line trenches should be placed and compacted as detailed in the State of New Mexico “Standard Specifications for Public Works Construction”. Transmission line trenches shall be as narrow as can be properly compacted. To reduce the possibility of breaking transmission lines with compaction equipment, heavy compactors should not be utilized.

10.0 SITE GRADING AND DRAINAGE

The site shall be graded to rapidly drain away from structures. We suggest a minimum four percent gradient within at least the first ten feet away from structures.

The tanks overflow lines shall discharge well away from the structures.

11.0 UTILITIES

Backfill in utility line trenches below the tank shall be compacted to a minimum of 90% of maximum density as determined by ASTM D-1557. Utility trenches shall be as narrow as can be properly compacted. To reduce the possibility of breaking utility lines with compaction equipment, heavy compactors should not be utilized.

12.0 TRENCHES AND EXCAVATIONS

All trenches greater than four feet in depth must be sloped, shored or braced, or otherwise supported according to OSHA Construction and Safety Standards. Material excavated from the

trench or spoil must be placed a minimum of two feet from the edge of the excavation. The spoil shall be retained in an effective manner such that no loose material can fall into the excavation.

Temporary construction excavations less than twelve feet deep should be sloped no steeper than 1½:1 (horizontal: vertical). If deeper excavations are required, this office shall be contacted for supplemental recommendations. Limited raveling of slopes will occur particularly as the exposed soils dry out. Heavy equipment and material stockpiles shall be located a minimum of five feet from the top of slope.

13.0 CLOSURE

The recommendations presented in this report are based upon the subsurface conditions disclosed by the test holes. Soil and groundwater conditions may vary between test holes and with time.

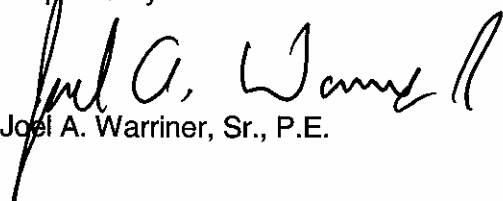
This report reflects our interpretation of the site subsurface conditions. We strongly recommend that prior to bidding all contractors perform their own subsurface investigation to form their own opinion of the site soil, rock, and groundwater conditions. Should contractors elect to use this report for construction, bidding or estimating purposes, they do so at their own risk.

If conditions are encountered during construction which differ from those presented herein, this office should be contacted for supplemental recommendations. The staff of **X8eVinyard** is available for supplemental consultation as necessary.

This office would be pleased to review site grading and drainage plans to evaluate conformance with the recommendations presented herein. All site earthworks should be observed by a qualified geotechnical engineer or his representative. **X8eVinyard** would be pleased to provide these services.

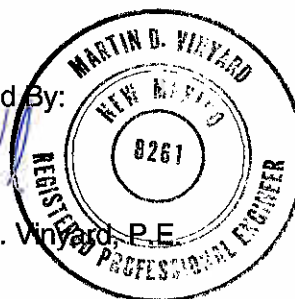
X8eVinyard

Prepared By:


Joel A. Warriner, Sr., P.E.

Reviewed By:

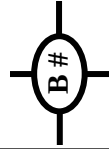

Martin D. Vinyard, P.E.



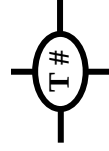
X8e Vinyard Project No.: 13-1-027

SITE PLAN
*Scale Unknown

Counselor Tank Site



BORE HOLE LOCATION

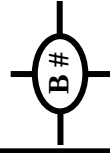


TEST PIT LOCATION

FIGURE 1A

X8e Vinyard Project No.: 13-1-027

SITE PLAN
*Scale Unknown



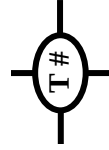
BORE HOLE LOCATION

Booster Station Site

FIGURE 1B

X8e Vinyard Project No.: 13-1-027

SITE PLAN
*Scale Unknown



TEST PIT LOCATION

Ojo-Encino Tank Site

FIGURE 1C

V&A Project No.: 13-1-027

SITE PLAN
*Scale Unknown

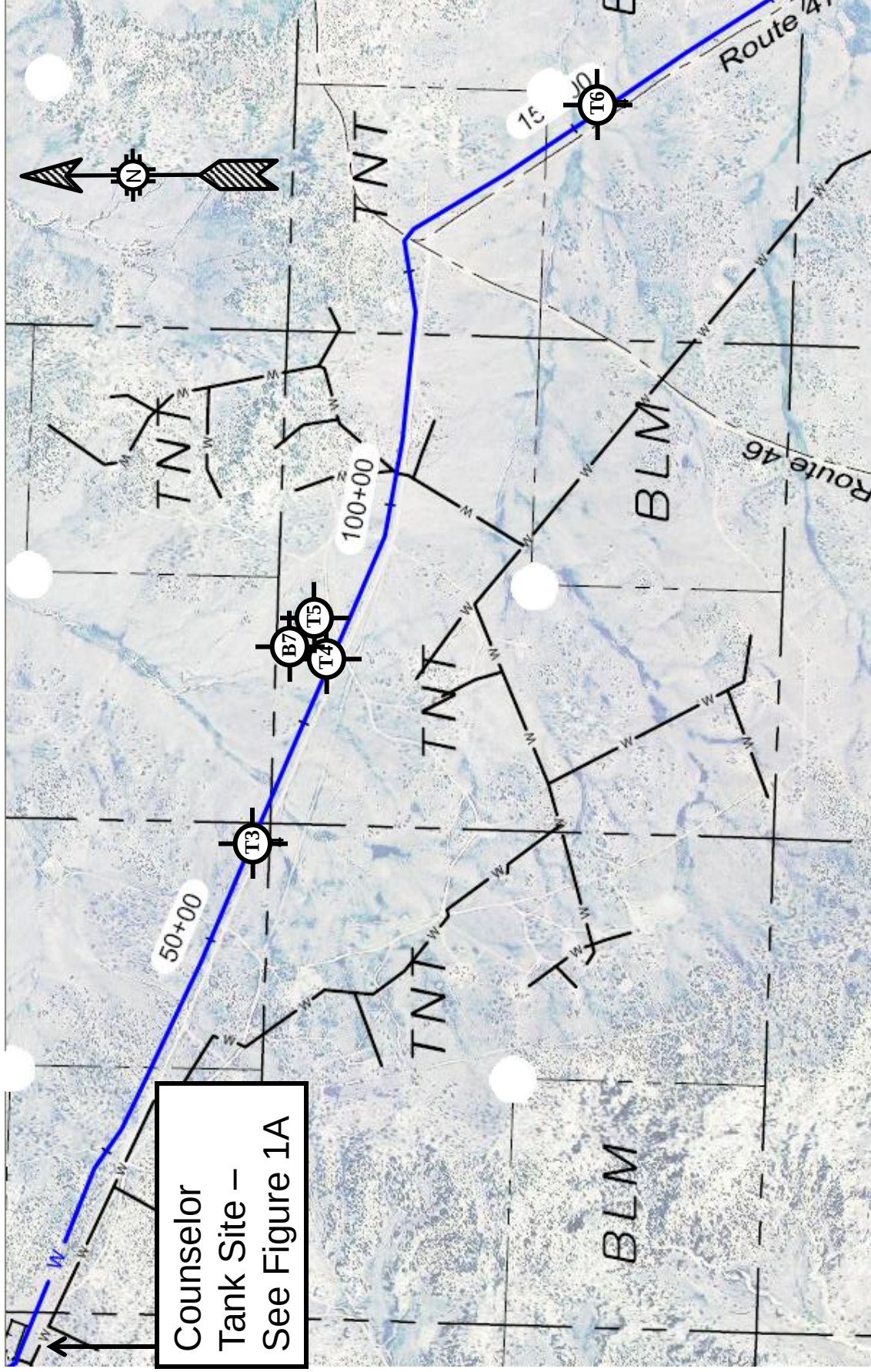


FIGURE 1D

V&A Project No.: 13-1-027

SITE PLAN
*Scale Unknown

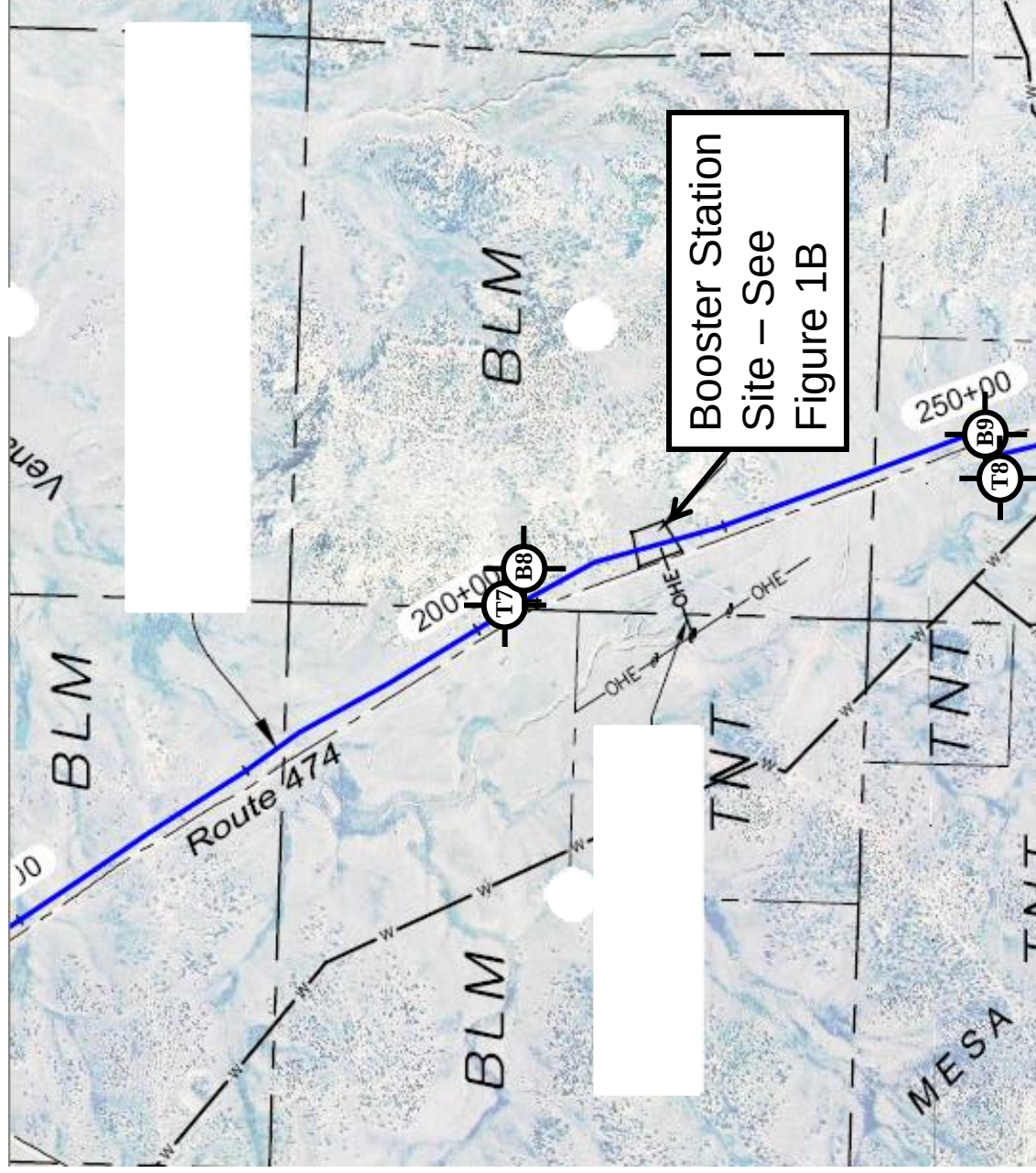
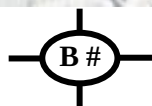
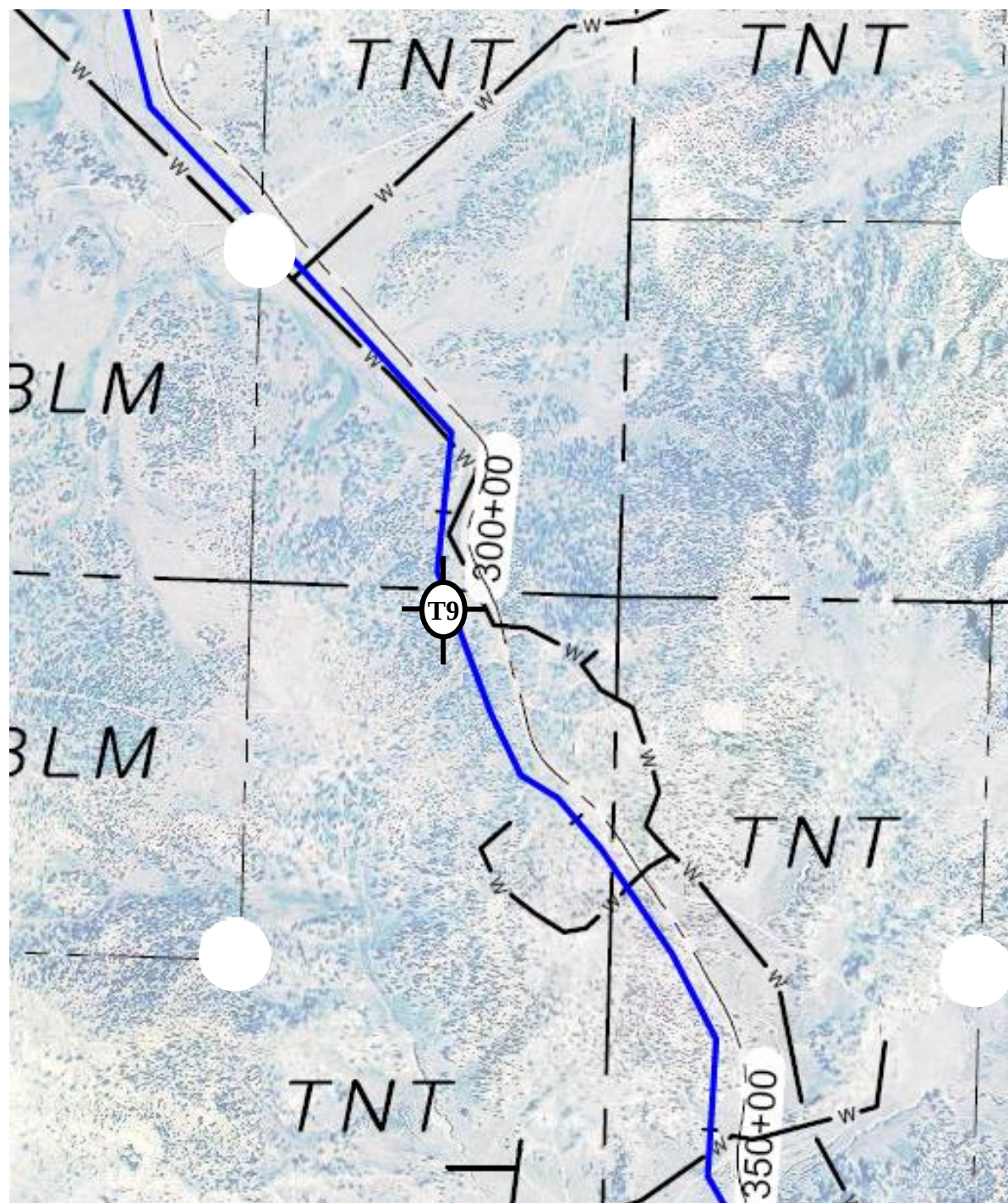
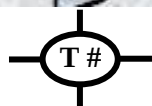


FIGURE 1E





BORE HOLE LOCATION



TEST PIT LOCATION

FIGURE 1F

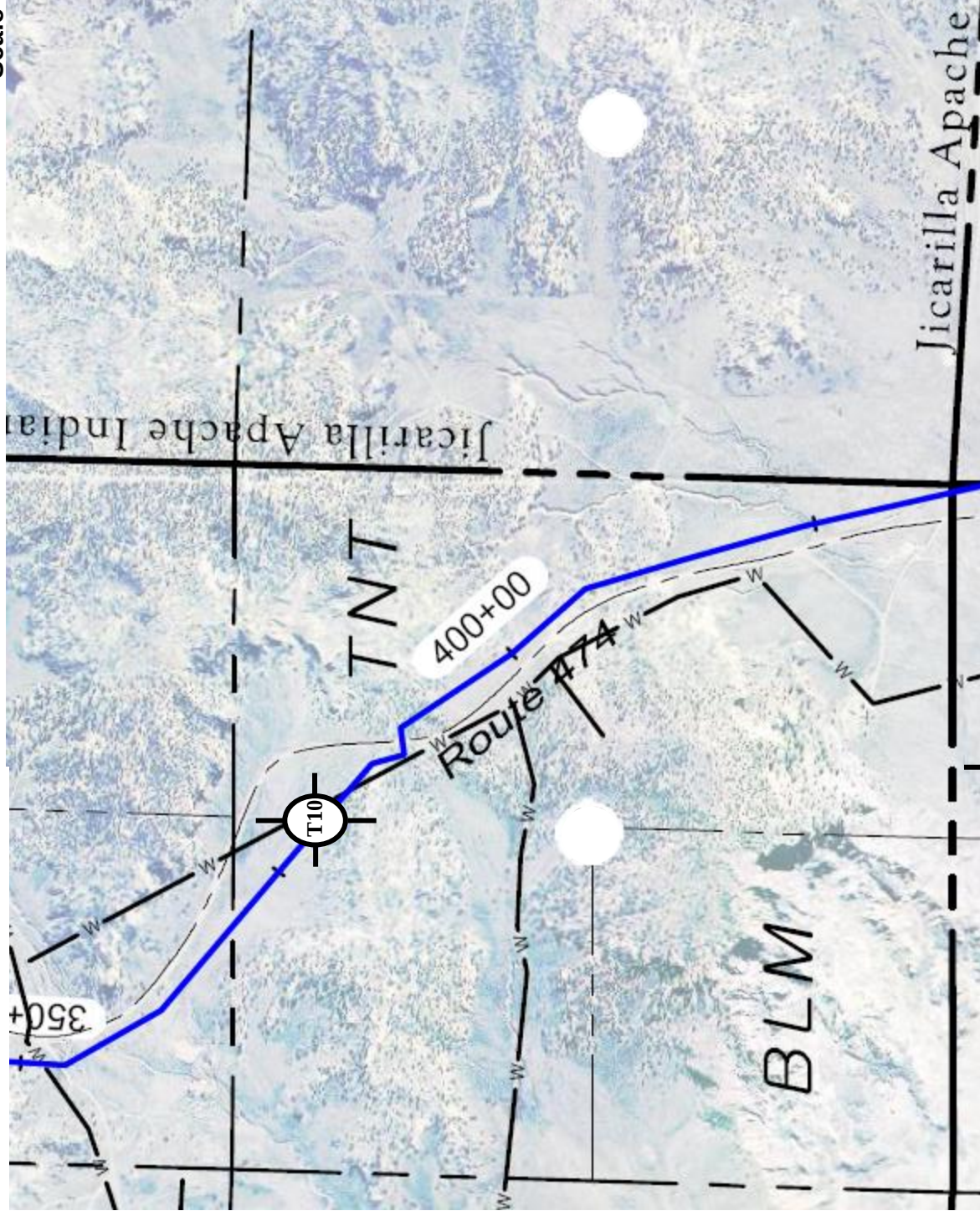


FIGURE 1G

X8e Vinyard Project No.: 13-1-027

SITE PLAN

***Scale Unknown**

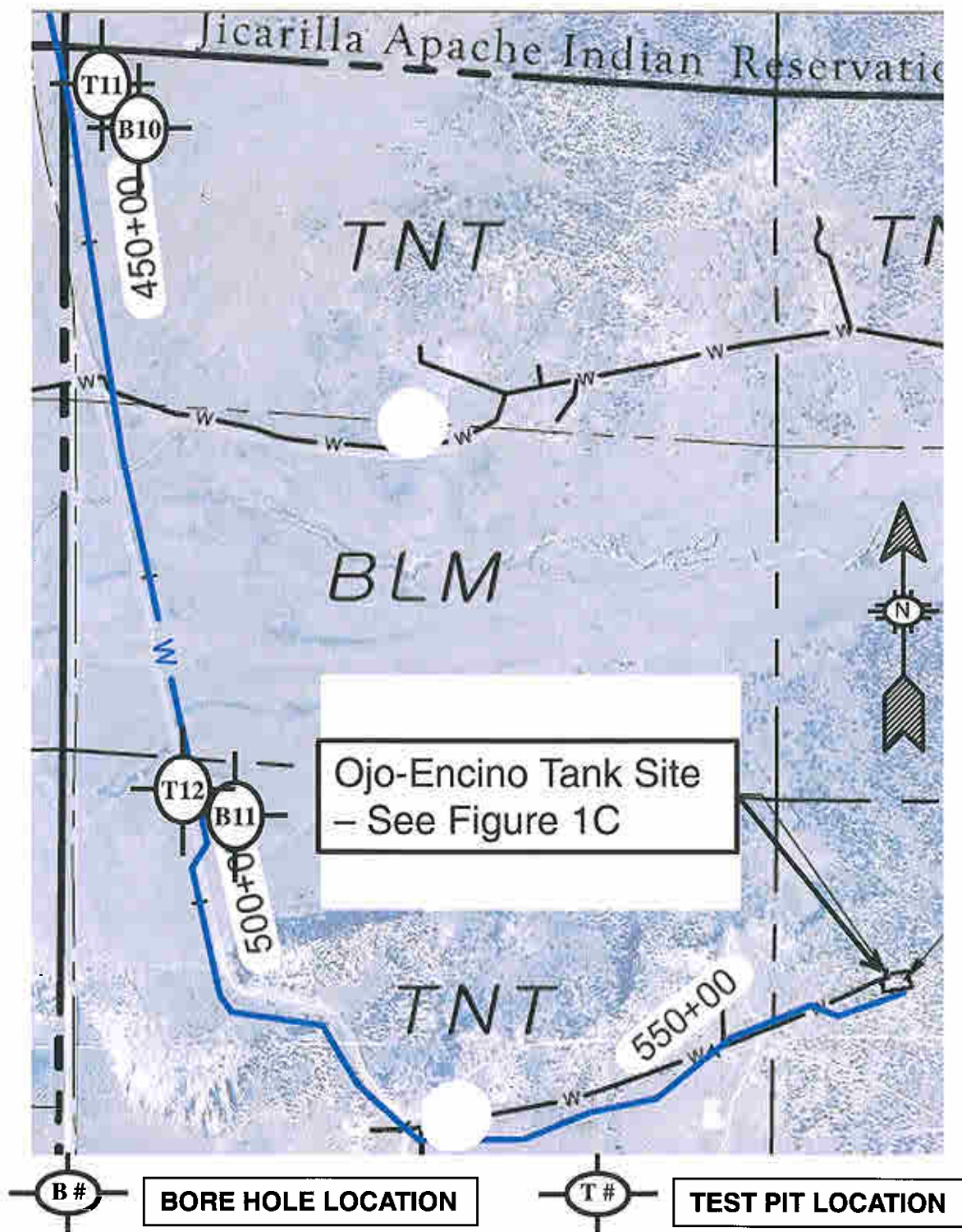


FIGURE 1H



LOG OF TEST PIT NO. T-1

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			104	3.6	1,5	SM	SAND, silty, fine to medium grained, medium dense, slightly moist, light brown
			103	2.9	1,5	SM	
10							Bottom of test pit 6'

LOG OF TEST PIT NO. T-2

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
			104	1.9	1,5	SM	SAND, silty, fine to medium grained, slightly moist, light brown
5			102	1.2	5	SP-SM	SAND, slightly silty, fine to medium grained, slightly moist, medium dense
10							Bottom of test pit 6'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 2



LOG OF TEST PIT NO. T-3

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			106.1 105.7 108.6	6.2 6.2 5.2		SM	SAND, silty, slightly moist, medium dense, light brown
10							Bottom of test pit 6'

LOG OF TEST PIT NO. T-4

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			105.1	5.6		SM	SAND, silty, slightly moist, medium dense, light brown
10							Bottom of test pit 6'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 3



LOG OF TEST PIT NO. T-5

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			94.9	5.0		SM	CLAY, sandy, slightly moist, very stiff, brown
10						SM	Loose
							Bottom of test pit 6'

LOG OF TEST PIT NO. T-6

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
							Weathered SANDSTONE
5							Bottom of test pit 3', refusal at 3'
10							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 4



LOG OF TEST PIT NO. T-7

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SM	SAND, silty, fine grained, slightly moist, medium dense, brown
5			100.3 95	7.4 6.2		CL	CLAY, sandy, fine grained, slightly moist, stiff, brown
10							Bottom of test pit 6'

LOG OF TEST PIT NO. T-8

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SM	SAND, clayey with silt, fine grained, slightly moist, medium dense, brown
5			94.4 97.1	8.0 6.9		CL CL	CLAY, sandy, fine to coarse grained, slightly moist, stiff, brown
10							Bottom of test pit 6'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 5



LOG OF TEST PIT NO. T-9

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			107.6 101.4	4.3 4.8		CL	CLAY, sandy, fine grained, slightly moist, stiff, brown
10							Bottom of test pit 6'

LOG OF TEST PIT NO. T-10

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			103.5 101.5	8.4 7.6		CL	CLAY, sandy, fine grained, slightly moist, stiff, brown
10							Bottom of test pit 6'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 6



LOG OF TEST PIT NO. T-11

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			91.3 91.7	6.0 6.5		CL	SAND, silty, fine grained, slightly moist, medium dense, light brown
10							Bottom of test pit 6'

LOG OF TEST PIT NO. T-12

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5			95.7 93.9	3.5 4.6		SM	SAND, silty, fine grained, slightly moist, medium dense, light brown
10							Bottom of test pit 6'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 7



LOG OF TEST PIT NO. T-13

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SP	Weathered SANDSTONE, SAND, slightly silty, slightly moist, dense, light brown
5							Very dense SANDSTONE encountered at 2'
10							Bottom of test pit 2', refusal at 2'

LOG OF TEST PIT NO. T-14

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SP-SM	Weathered SANDSTONE, SAND, slightly silty, slightly moist, dense, light brown
5							Very dense SANDSTONE encountered at 3'
10							Bottom of test pit 3', refusal at 3'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 8



LOG OF TEST PIT NO. T-15

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5						SM	Weathered SANDSTONE, SAND, silty, fine grained, slightly moist, dense, light brown
							Very dense SANDSTONE encountered at 5'
10							Bottom of test pit 5', refusal at 5'

LOG OF TEST PIT NO. T-16

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SP-SM	Weathered SANDSTONE, SAND, slightly silty, slightly moist, dense, light brown
							Very dense, SANDSTONE encountered at 2½'
5							Bottom of test pit 2½', refusal at 2½'
10							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 9



LOG OF TEST PIT NO. T-17

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SP-SM	Weathered SANDSTONE, SAND, slightly silty, slightly moist, dense, light brown
5							Very dense SANDSTONE encountered at 2½'
10							Bottom of test pit 2½', refusal at 2½'

LOG OF TEST PIT NO. T-18

Elevation: N/A

Depth to Groundwater: Not Encountered

Date: 3/21/13

Drilling Method: backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
						SM	Weathered SANDSTONE, SAND, silty, fine grained, slightly moist, dense
5							Very dense SANDSTONE encountered at 2½'
10							Bottom of test pit 2½', refusal at 2½'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 10



LOG OF TEST PIT NO. 19

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date: 3/21/2013

Drilling Method: Backhoe

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5						SP-SM	Weathered SANDSTONE, SAND, slightly silty, fine to medium grained, slightly moist, dense, light brown
							Very dense SANDSTONE encountered at 6½'
10							Bottom of test pit 6½', refusal at 6½'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 11



LOG OF TEST HOLE NO. B-1

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	7	R	102	1.7	1,5	SM	SAND, silty, fine to medium grained, loose, slightly moist, light brown
	34	R		2.2			Dense
10	300	S		2.2			SANDSTONE, fine to medium grained, very hard, slightly moist, light brown
							Cemented sand, 50 blows for 2"
15	200	S		1.8			50 blows for 3"
20	200	S		1.8			50 blows for 3"
25	150	S		3.0			50 blow for 4"
30							Bottom of hole 26½'
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 12



LOG OF TEST HOLE NO. B-2

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	19	R		2.4		SM	SAND, silty, fine grained, medium dense, slightly moist light brown
	20	R	108	1.8	1		Fine to medium grained
10	200	S		2.3			SANDSTONE, fine grained, very hard, slightly moist, light brown Cemented sand, dense, 50 blows for 3"
15	300	S		2.0			50 blows for 2"
20	240	S		2.0			50 blows for 2½"
25	171	S		4.5			50 blow for 3½"
30							Bottom of hole 26½'
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 13



LOG OF TEST HOLE NO. B-3

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	26	R	113	2.5	1,5	SM	SAND, silty with trace clay, fine to medium grained, medium dense, slightly moist, brown
10	17	R		2.9		SM	SAND, slightly silty, fine to coarse grained, medium dense, slightly moist, light brown
15	15	S		3.2			
20	12	S		3.2			
25	12	S		2.8			
30	24	S		3.6		SC	SAND, slightly clayey, fine grained, medium dense, slightly moist, light brown
35							Bottom of hole 26½'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 14



LOG OF TEST HOLE NO. B-4

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	15	R	104	2.5	1,5	SM	SAND, silty with trace of clay, fine grained, medium dense, slightly moist, light brown
10	16	R	104	2.8	1,5	SM	SAND, slightly silty, fine to medium grained, medium dense, slightly moist, light brown
15	16	S		4.7			
20	14	S		3.6			
25	10	S		2.5			Loose
	19	S		3.5			Medium dense
30							Bottom of hole 26½'
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 15



LOG OF TEST HOLE NO. B-5

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	18	R	106	3.1	1,5	SM	SAND, slightly silty, fine to medium grained, medium dense, slightly moist, light brown
	20	R		3.8			
10	20	S		4.7		SC	
15	12	S		3.3			
20	12	S		2.8			SAND, slightly clayey, fine grained, medium dense, slightly moist, light brown
25	18	S		3.5			
30							
35							Bottom of hole 26½'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 16



LOG OF TEST HOLE NO. B-6

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	19	R	105	3.3	1,5	SM	SAND, silty with trace clay, fine grained, medium dense, trace moist, light brown
10	17	R	105	3.2	1,5	SM	SAND, silty, fine to medium grained, medium dense, trace moist, light brown
15	17	S		5.9		SC	SAND, clayey, fine grained, medium dense, trace moist, light brown
20	13	S		3.0			
25	11	S		2.5		SM	SAND, slightly silty, fine grained, medium dense, trace moist, light brown
	20	S		2.3			
30							Bottom of hole 26½'
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 17



LOG OF TEST HOLE NO. B-7

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
	17	R		5.6		SM	SAND, silty, medium dense, slightly moist, light brown
5	150	R		1.3		SC	SAND, slightly clayey, fine grained, medium dense, slightly moist, brown
10	120	S		4.2			SANDSTONE, fine grained, dense, slightly moist, light brown, 50 blows for 4"
15	200	S		3.9			50 blows for 5"
20	150	S		4.1			50 blows for 3"
25							50 blows for 4"
30							Bottom of hole 20' 4"
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 18



LOG OF TEST HOLE NO. B-8

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	18	R	105	6.1	1	SM	SAND, silty, medium dense, moist, light brown
10	17	R	105	5.7	1	SC	SAND, clayey, fine grained, medium dense, slightly moist, light brown
15	6	S	105	2.3		SM	SAND, slightly silty, fine grained, loose, slightly moist, light brown
20	13	S	105	3.6		SC	SAND, clayey, fine grained, medium dense, slightly moist, light brown
25	85	S	105	5.4			SAND, medium to coarse grained, medium dense, slightly moist, yellowish brown Cemented sand, white
30							Bottom of hole 21½'
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 19



LOG OF TEST HOLE NO. B-9

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	14	R	104	7.1	1	SM-SC	SAND, silty, clayey, medium dense, slightly moist, light brown
	20	R		4.5			
10	14	S		1.7		SP	SAND, fine to medium grained, medium dense, slightly moist, light brown
	19	S		2.8			
15							
	21	S		2.9			
20							
25							Bottom of hole 21½'
30							
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 20



LOG OF TEST HOLE NO. B-10

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	8	R	98	4.3		SM	SAND, silty with trace clay, fine grained, loose, moist, light brown
11		R		2.7		SP-SM	SAND, slightly silty, fine grained, medium dense, slightly moist, light brown
10	20	S		1.4			Fine to medium grained
15	12	S		5.0		SC	SAND, slightly clayey, fine to medium grained, medium dense, slightly moist, light brown
20	15	S		5.1		CL	Clay, sandy, stiff, slightly moist, light brown
25							Bottom of hole 21½'
30							
35							

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 21



LOG OF TEST HOLE NO. B-11

Project: Pump, Surge & Chlorinator Buildings & Water Pipeline

Elevation: N/A

Depth to Groundwater: Not Encountered

Project No.: 13-1-027

Date Drilled: 3/28/2013

Drilling Method: 7" H.S.A.

Depth, feet	Blows/Foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5	12	R	93	5.3		SC	SAND, clayey, fine grained, medium dense, slightly moist light brown
10	15	R	93	5.4		CL	CLAY, sandy, stiff, slightly moist, brown
15	9	S	93	1.9		SM	SAND, slightly silty, fine to medium grained, loose, slightly moist, light brown
20	15	S	93	6.2			
25	16	S	93	2.4		CL	CLAY, sandy, stiff, slightly moist, light brown
30						SM	SAND, slightly silty, fine to medium grained, medium dense, slightly moist, light brown
35							Bottom of hole 21½'

ADDITIONAL TESTS: 1= Sieve Analysis 2= Atterberg Limits 3=Direct Shear 4=R-Value 5=Other

Figure: 22



NOTES - LOGS OF TEST HOLES

Test hole locations were determined by compass bearing and pacing distances from known topographic points.

"Drilling Method" refers to the equipment utilized to advance the test hole. A seven-inch outside diameter, continuous flight, hollowstem auger and a rubber tired backhoe were utilized.

"S" under "Sample Type" indicates a Standard Penetration test (ASTM D-1586). The Standard Penetration sampler is 2 inches in outside diameter and 1 3/8 inches inside diameter.

"R" under "Sample Type" indicates a 3-inch outside diameter by 2.5-inch inside diameter sampler. The sampler is lined with 1-inch high brass rings.

"B" under "Sample Type" indicates a bulk sample.

"Blows Per Foot" indicates the number of blows of a 140-pound hammer falling 30 inches required to drive the indicated sampler 12 inches.

"NR" under "Blows/Foot" indicates that no sample was recovered.

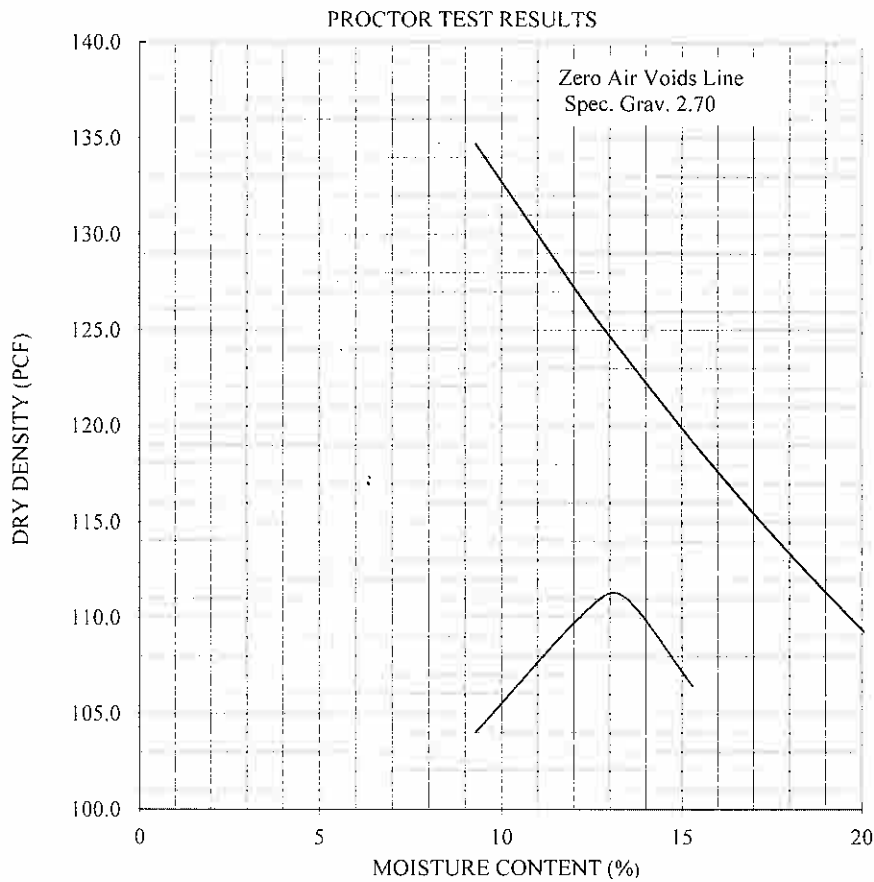
"Dry Density PCF" indicates the laboratory determined soil dry density in pounds per cubic foot.

"Water Content %" indicates the laboratory determined soil moisture content in percent (ASTM D-2216).

"Unified Classification" indicates the field soil classification as per ASTM D-2488. When appropriate, the field classification is modified based upon subsequent laboratory tests.

Variations in soil profile, consistency, and moisture content may occur between test holes. Subsurface conditions may also vary between test holes and with time.

Figure No.: 22A



Max Dry Density= 111.2 PCF

Optimum Moist.= 13.1 %

Test Method : ASTM D698-A

X8eVinyard Project No.: 13-1-027

COA Number:

Project Title : NGWSP Reaches 24.1 and 25

Date Sampled : 3/21/13

Sample No. : 129

Sample Location : Excavated material from Counselors water tank site @ test pit #2, Blend of 0 to -8.0'

Sieve Analysis ASTM C-136

Sieve	mm	% Passing	Spec.
3"	75.0		
2"	50.0		
1 1/2"	37.5		
1"	25.0		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5		
No. 4	4.75		
No. 8	2.36		
No. 10	2.00		
No. 16	1.18	100	
No. 30	0.60	94	
No. 40	0.425	83	
No. 50	0.300	68	
No. 80	0.180	44	
No. 100	0.150	36	
No. 200	0.075	20	

Atterberg Limits ASTM D4318

	Results	Spec.
LIQUID LIMIT	NV	
PLASTIC LIMIT	NV	
PLASTICITY INDEX	NP	
NV=Not Valid NP=Non Plastic		

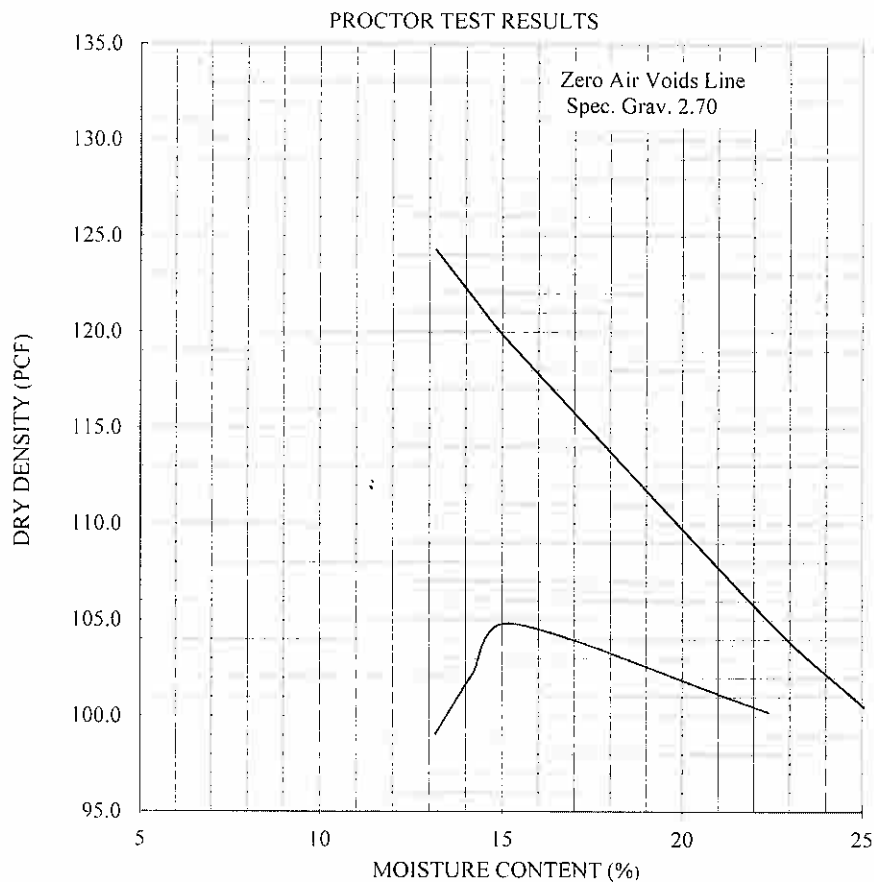
ASTM D2487 USCS: SM (Silty SAND.)

AASHTO M145 CLASS.: A-2-4

EST. R-VALUE: 50
(Based on NMSHTD 97 Charts)

Specification Used : None

Figure: 23



Max Dry Density= 104.9 PCF

Optimum Moist.= 15.0 %

Test Method : ASTM D698-A

X8eVinyard Project No.: 13-1-027

COA Number:

Project Title : NGWSP Reaches 24.1 and 25

Date Sampled : 3/21/13

Sample No. : 130

Sample Location : Excavated material from backhoe pit @ sta 251+00

Sieve Analysis ASTM C-136

Sieve	mm	% Passing	Spec.
3"	75.0		
2"	50.0		
1 1/2"	37.5		
1"	25.0		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5		
No. 4	4.75		
No. 8	2.36		
No. 10	2.00		
No. 16	1.18	100	
No. 30	0.60	99	
No. 40	0.425	98	
No. 50	0.300	96	
No. 80	0.180	89	
No. 100	0.150	84	
No. 200	0.075	65	

Atterberg Limits ASTM D4318

	Results	Spec.
LIQUID LIMIT	34	
PLASTIC LIMIT	14	
PLASTICITY INDEX	20	

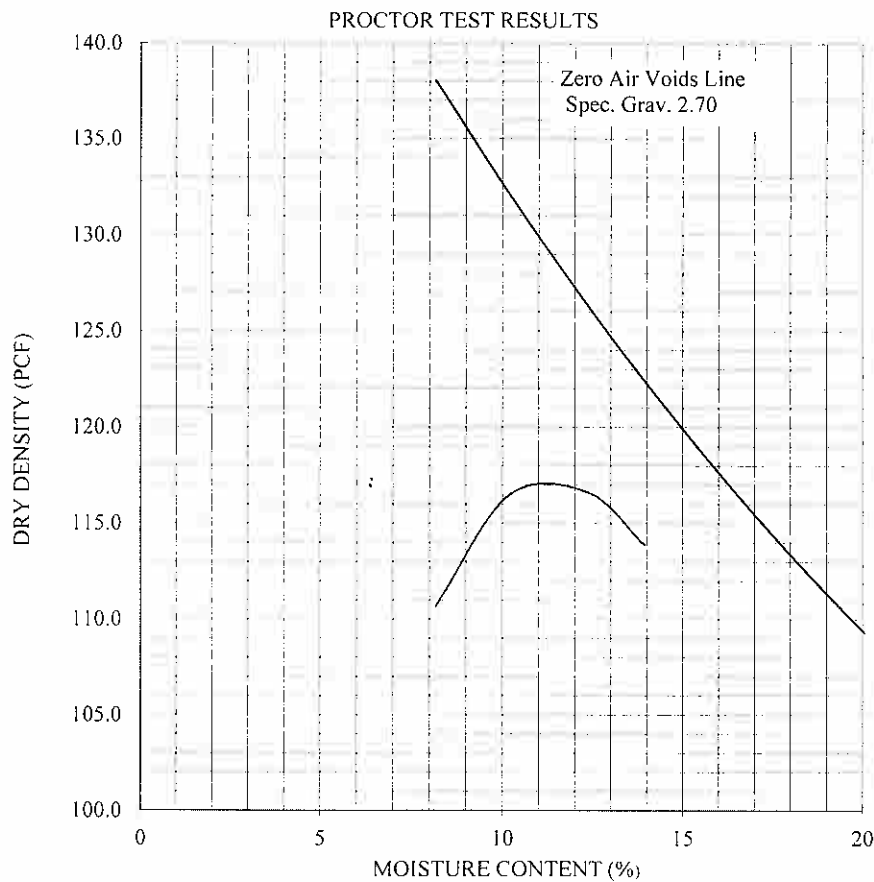
ASTM D2487 USCS: CL (Sandy lean CLAY.)

AASHTO M145 CLASS.: A-6

EST. R-VALUE: 9
(Based on NMSHTD 97 Charts)

Specification Used : None

Figure: 24



X8eVinyard Project No.: 13-1-027

COA Number:

Project Title : NGWSP Reaches 24.1 and 25

Date Sampled : 3/21/13

Sample No. : 131

Sample Location : Excavated material from test pit #6

Sieve Analysis ASTM C-136

Sieve	mm	% Passing	Spec.
3"	75.0		
2"	50.0		
1 1/2"	37.5		
1"	25.0		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5		
No. 4	4.75	100	
No. 8	2.36	99	
No. 10	2.00	98	
No. 16	1.18	85	
No. 30	0.60	57	
No. 40	0.425	50	
No. 50	0.300	43	
No. 80	0.180	28	
No. 100	0.150	23	
No. 200	0.075	16	

Atterberg Limits ASTM D4318

	Results	Spec.
LIQUID LIMIT	NV	
PLASTIC LIMIT	NV	
PLASTICITY INDEX	NP	
NV=Not Valid NP=Non Plastic		

ASTM D2487 USCS: SM (Silty SAND.)

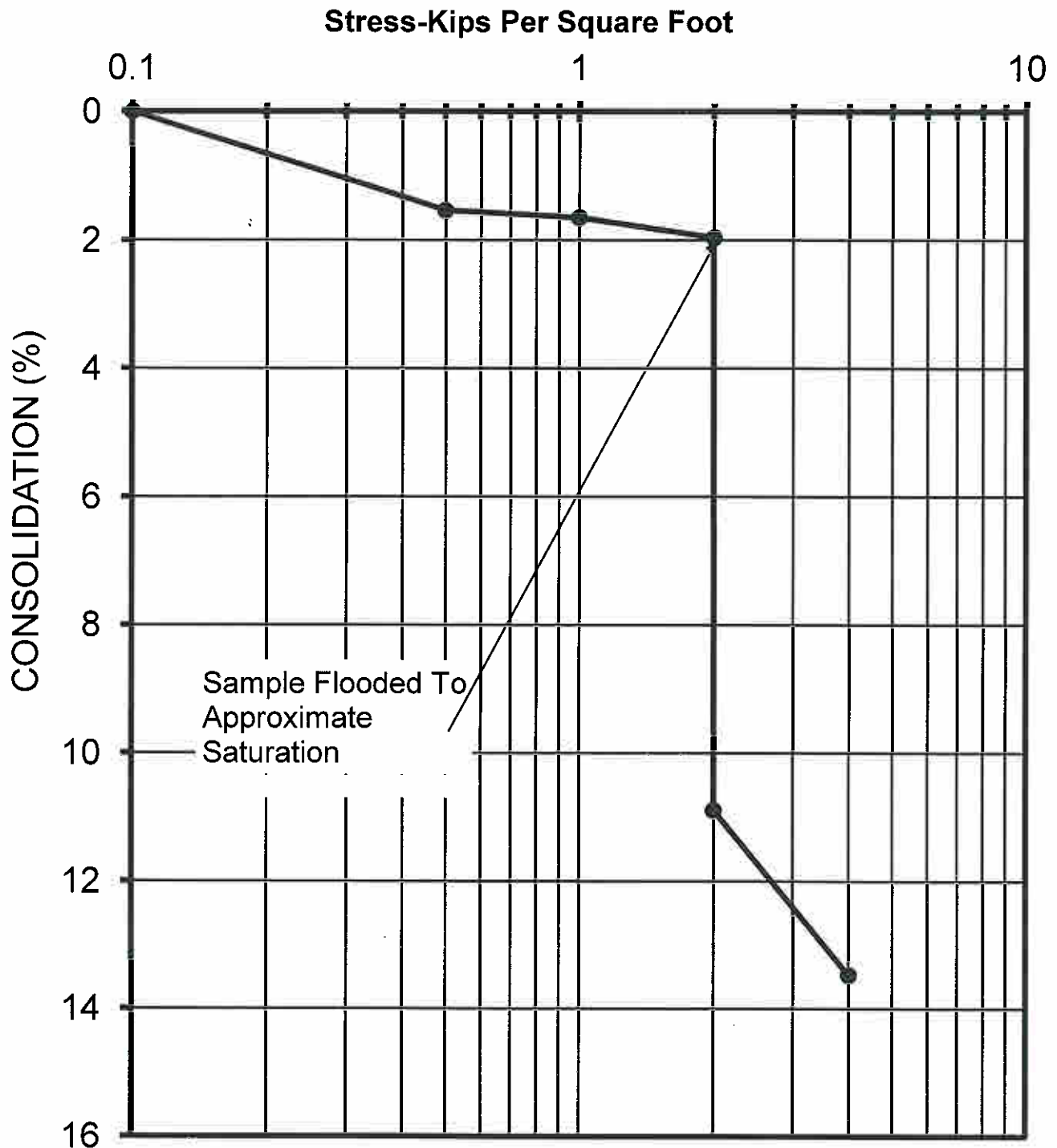
AASHTO M145 CLASS.: A-2-4

EST. R-VALUE: 50
(Based on NMSHTD 97 Charts)

Specification Used : None

Figure: 25

NGWSP Reaches 24.1 and 25 Counselor NM

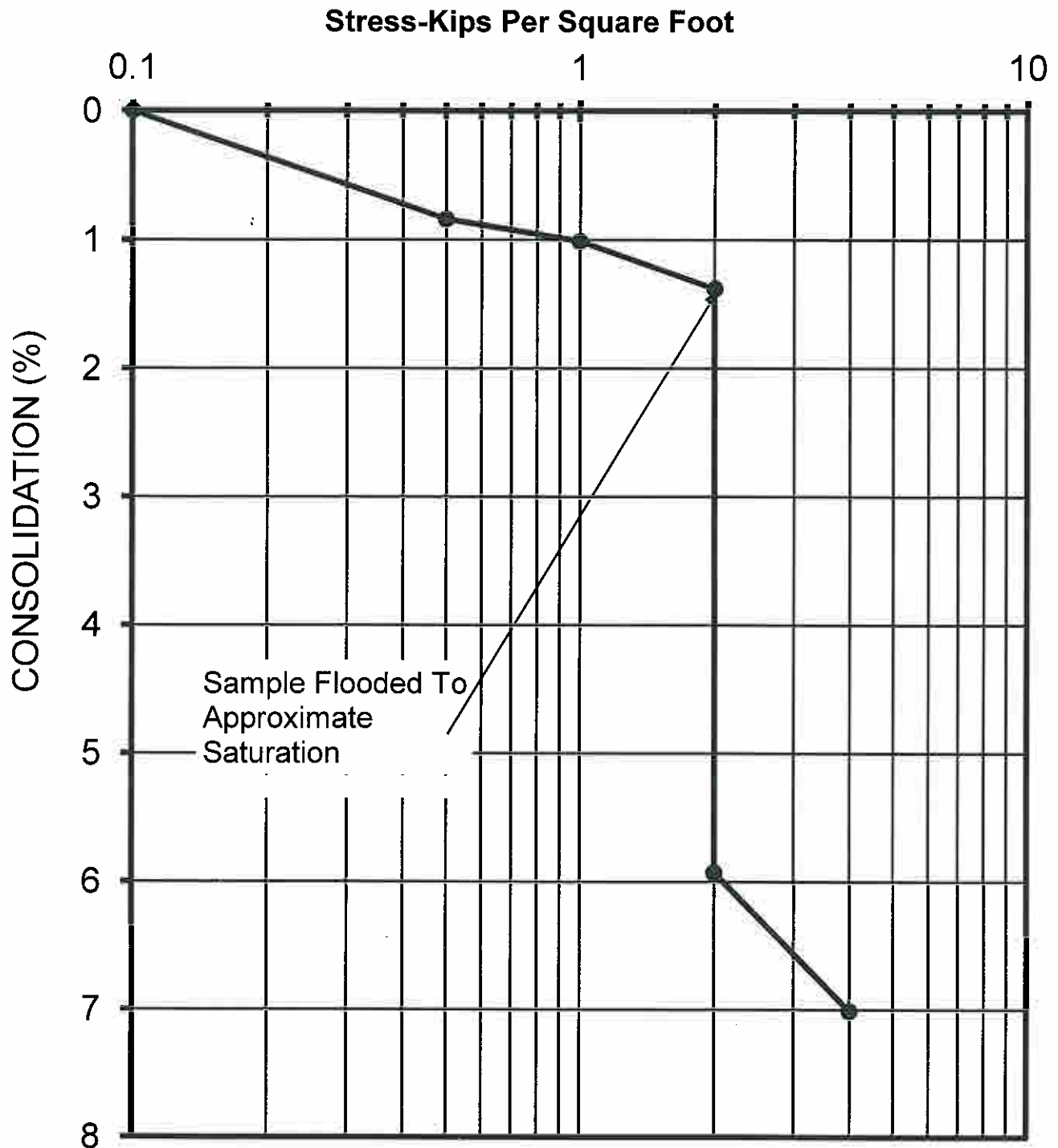


TEST PIT NUMBER: 1
SAMPLE DEPTH: 1 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 3.6
DRY DENSITY: 104 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :26

CONSOLIDATION TEST RESULTS

NGWSP Reaches 24.1 and 25 Counselor NM

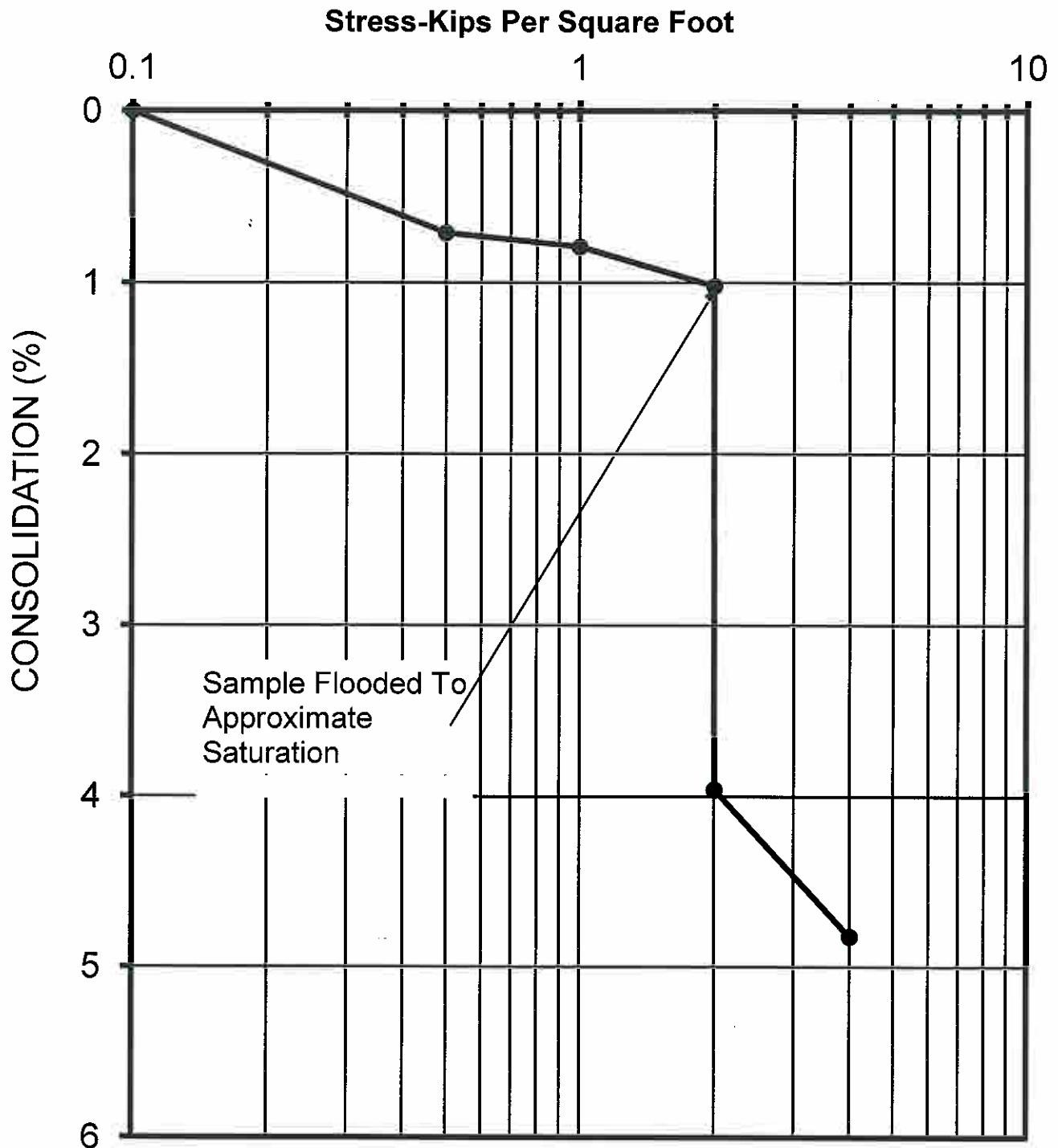


TEST PIT NUMBER: 1
SAMPLE DEPTH: 3 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 2.9
DRY DENSITY: 103 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :27

CONSOLIDATION TEST RESULTS

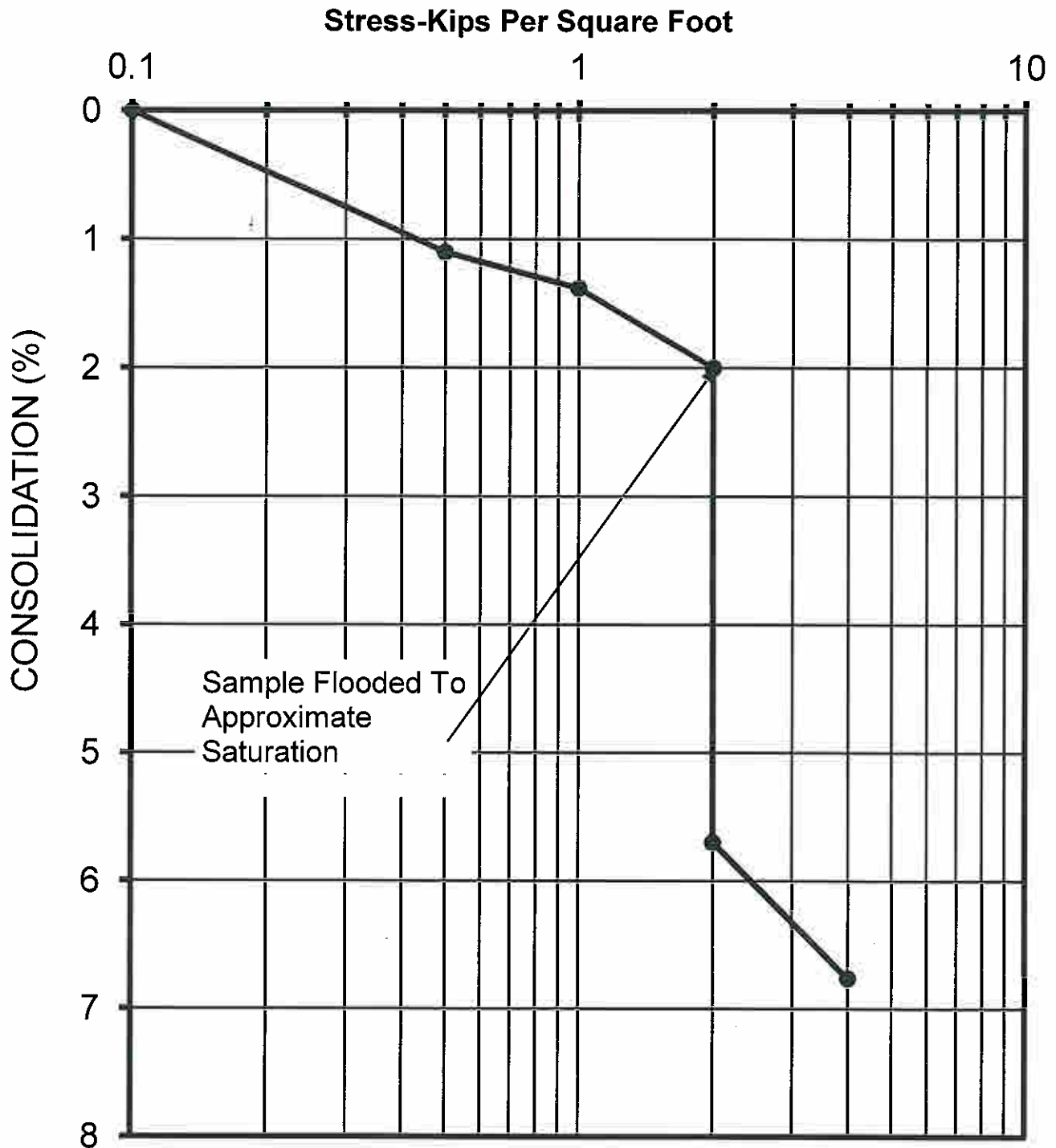
NGWSP Reaches 24.1 and 25 Counselor NM



TEST PIT NUMBER: 2
SAMPLE DEPTH: 2 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 1.9
DRY DENSITY: 104 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :28

NGWSP Reaches 24.1 and 25 Counselor NM

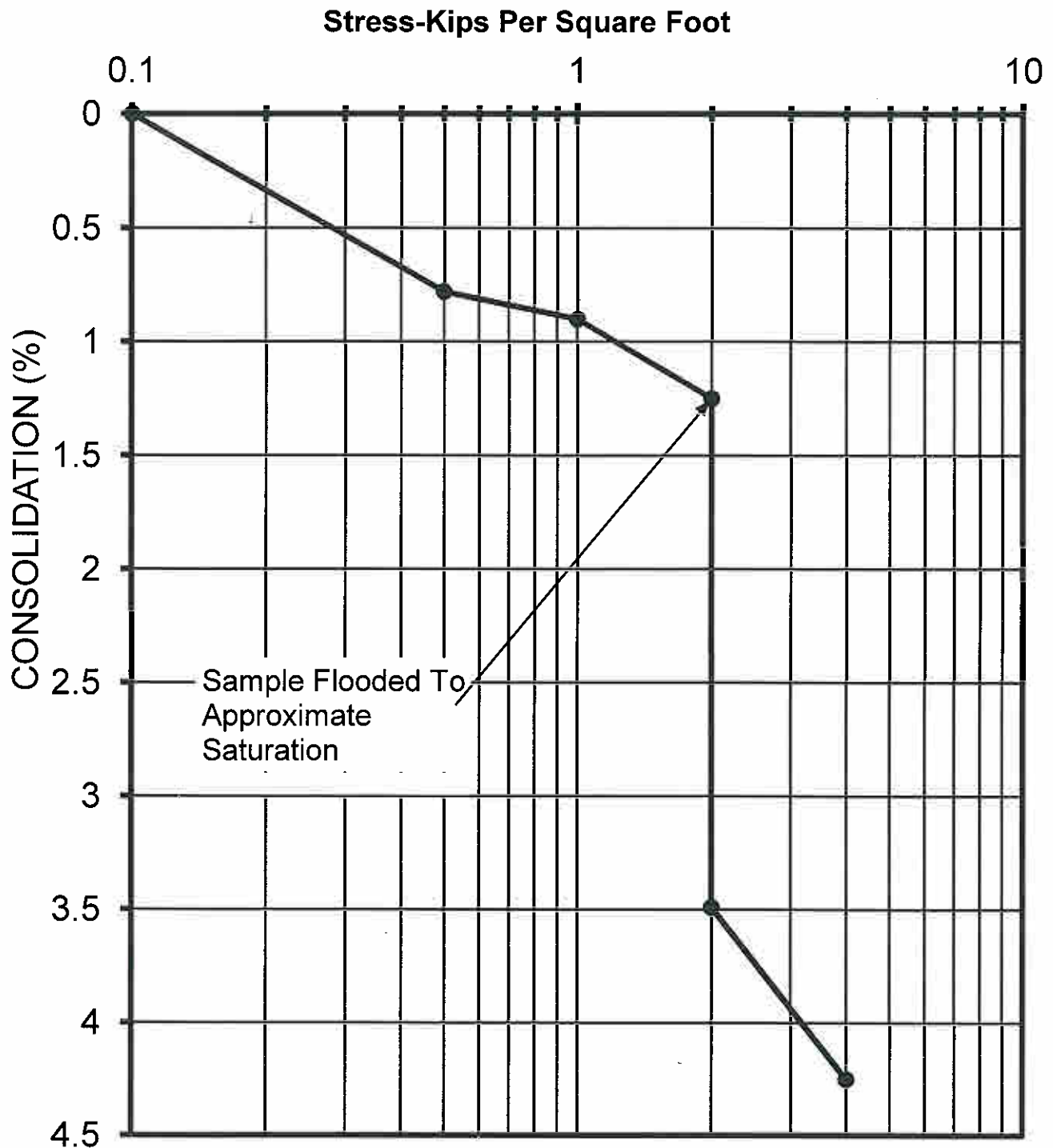


TEST PIT NUMBER: 2
SAMPLE DEPTH: 4 FEET
SOIL CLASSIFICATION: SP/SM
SOIL DESCRIPTION: Poorly graded SAND/Silty SAND
MOISTURE CONTENT (%): 1.2
DRY DENSITY: 102 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :29

CONSOLIDATION TEST RESULTS

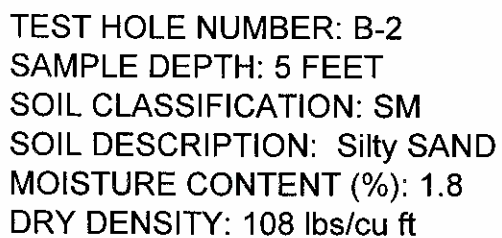
NGWSP Reaches 24.1 and 25 Counselor NM



TEST HOLE NUMBER: B-1
SAMPLE DEPTH: 2 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 1.7
DRY DENSITY: 102 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :30

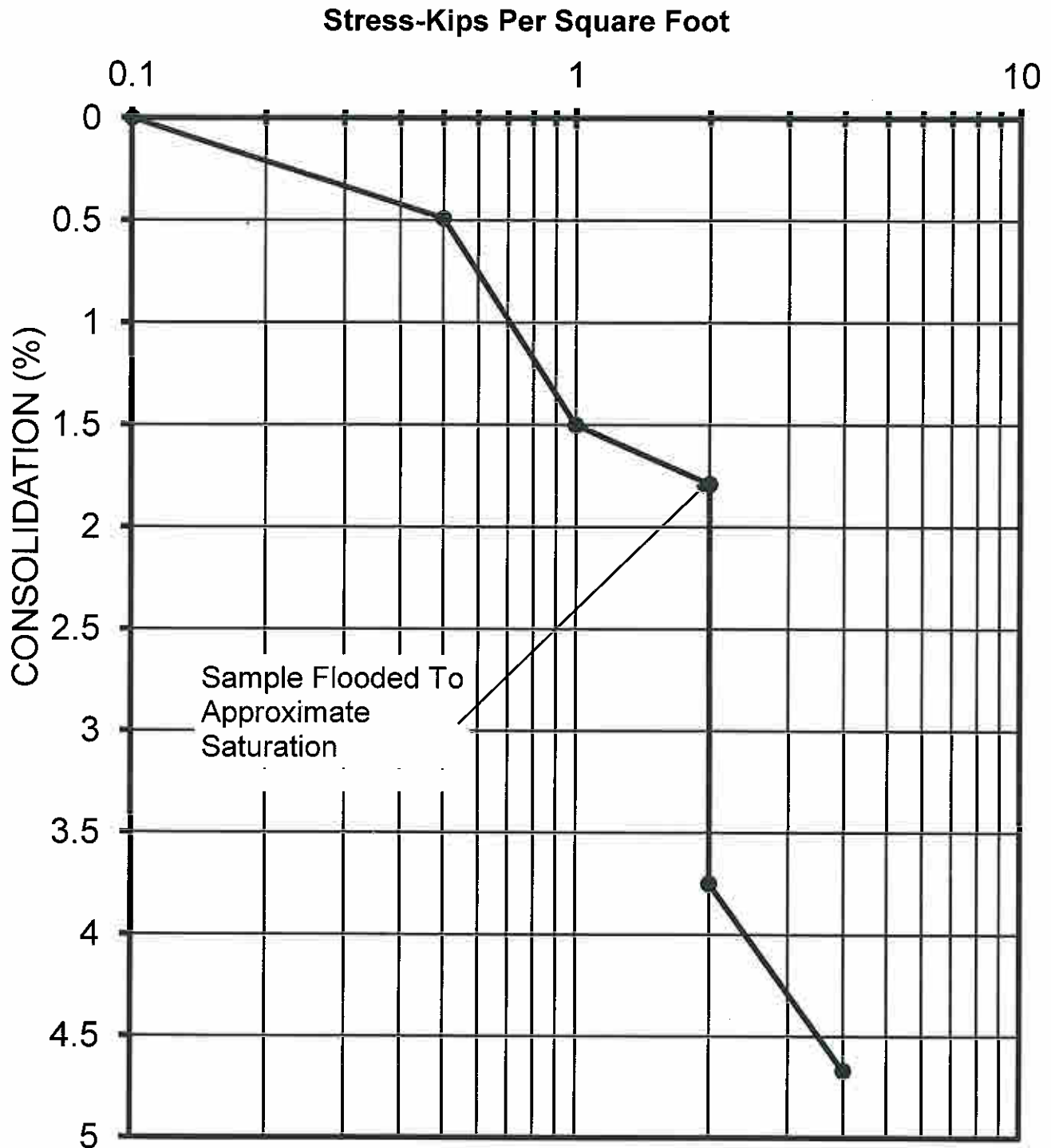
NGWSP Reaches 24.1 and 25 Counselor NM



X8eVinyard
Project No. 13-1-027
Figure Number :31

CONSOLIDATION TEST RESULTS

NGWSP Reaches 24.1 and 25 Counselor NM

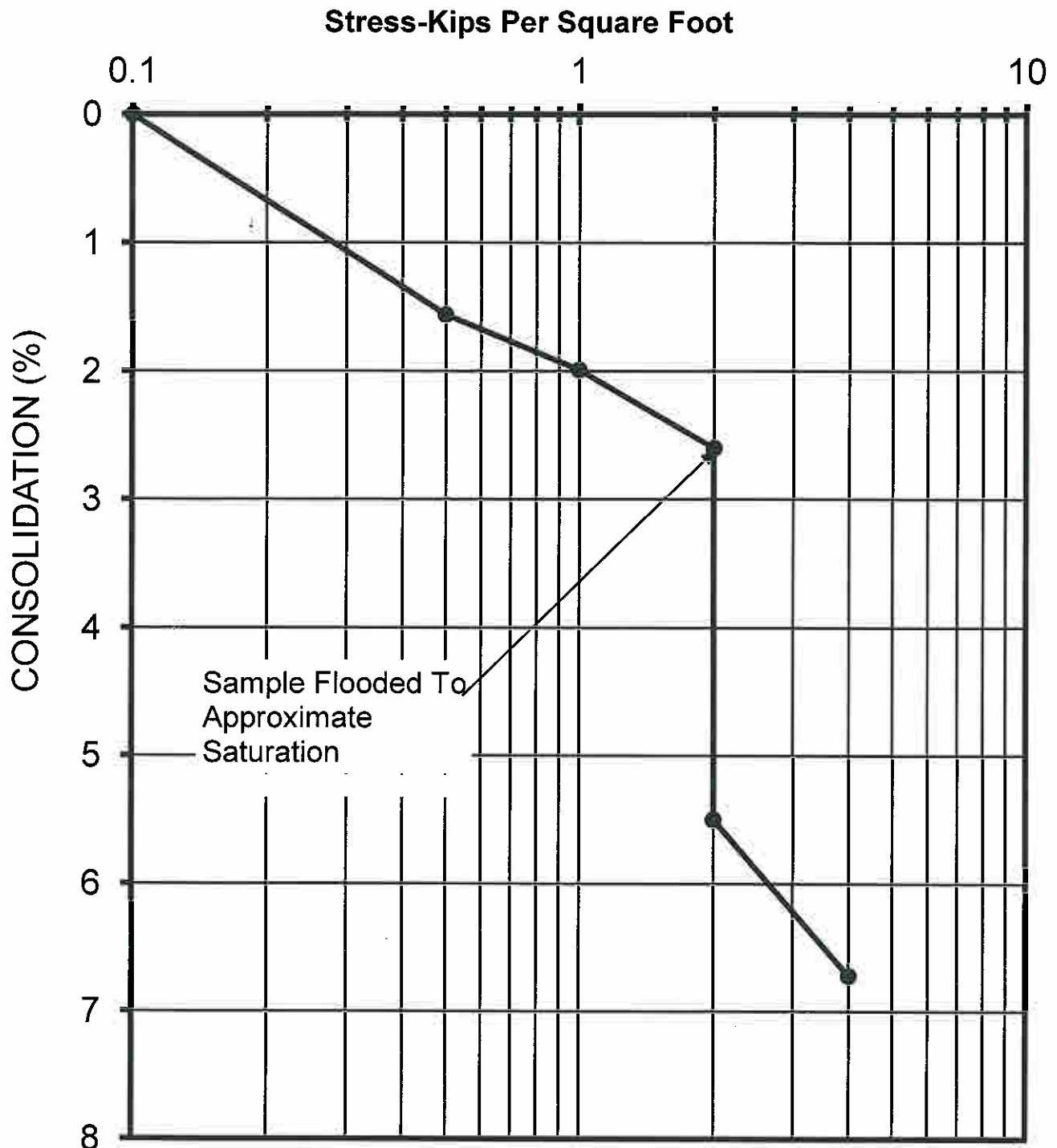


TEST HOLE NUMBER: B-3
SAMPLE DEPTH: 2 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 2.5
DRY DENSITY: 113 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :32

CONSOLIDATION TEST RESULTS

NGWSP Reaches 24.1 and 25 Counselor NM

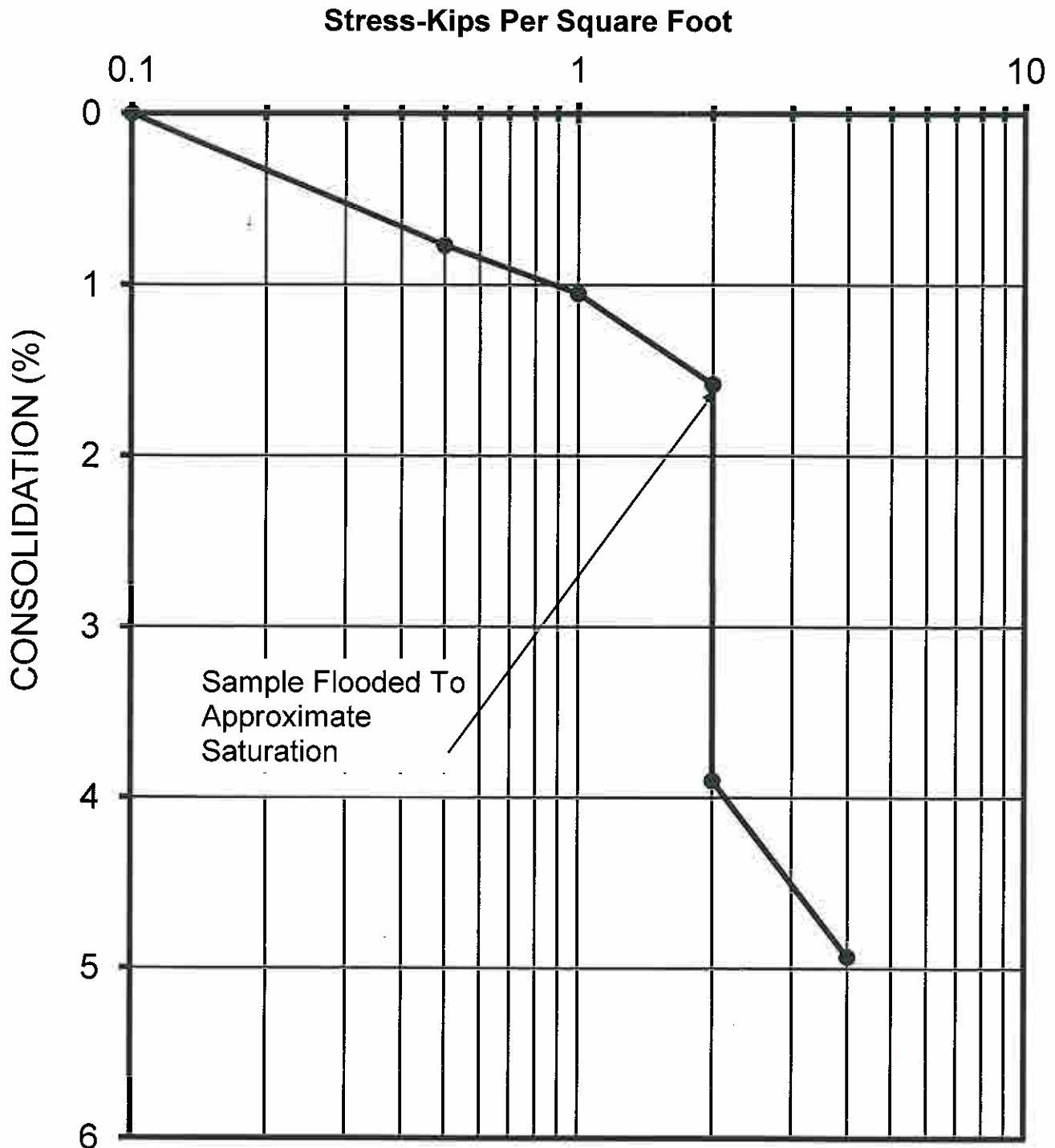


TEST HOLE NUMBER: B-4
SAMPLE DEPTH: 5 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 2.8
DRY DENSITY: 104 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :33

CONSOLIDATION TEST RESULTS

NGWSP Reaches 24.1 and 25 Counselor NM

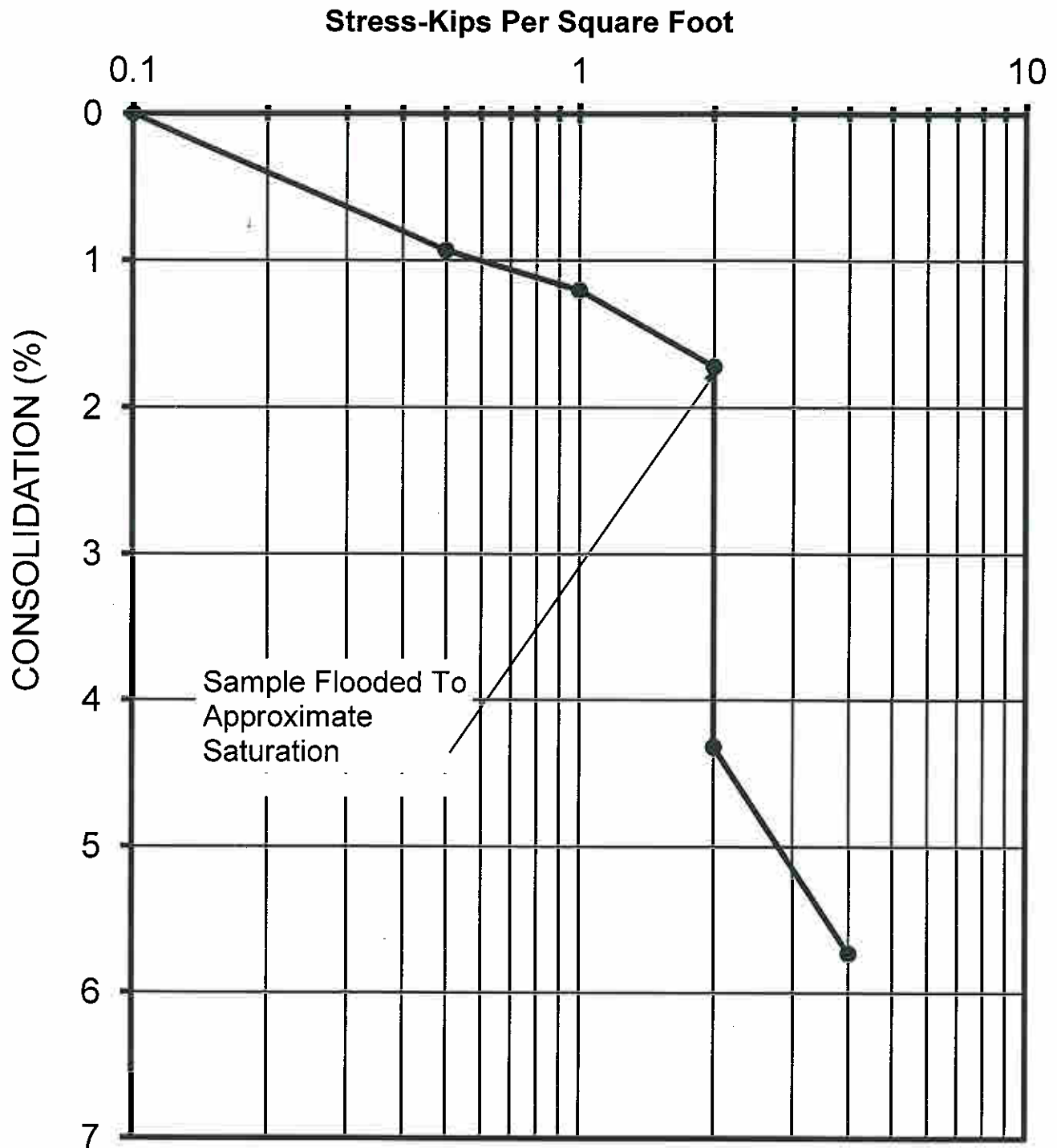


TEST HOLE NUMBER: B-5
SAMPLE DEPTH: 2 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 3.1
DRY DENSITY: 106 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :34

CONSOLIDATION TEST RESULTS

NGWSP Reaches 24.1 and 25 Counselor NM



TEST HOLE NUMBER: B-6
SAMPLE DEPTH: 5 FEET
SOIL CLASSIFICATION: SM
SOIL DESCRIPTION: Silty SAND
MOISTURE CONTENT (%): 3.2
DRY DENSITY: 105 lbs/cu ft

X8eVinyard
Project No. 13-1-027
Figure Number :35

SUMMARY OF LABORATORY TEST DATA

Test Hole	Depth (feet)	Unified Classification	Natural Dry Density (pcf)	Natural Moisture Content (%)	Atterberg Limits		SIEVE ANALYSIS-% PASSING BY WEIGHT										Description
							1 1/2"	3/4"	3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	
B-1	2	SM	102	1.7								100	92	63	25	12.6	SAND, silty
B-1	5			2.2													
B-1	10			2.2													
B-1	15			1.8													
B-1	20			1.8													
B-1	25			3.0													
B-2	2			2.4													
B-2	5	SM	108	1.8						100	100	99	89	66	28	12.2	SAND, silty
B-2	10			2.3													
B-2	15			2.0													
B-2	20			2.0													
B-2	25			4.5													
B-3	2	SM	113	2.5							100	99	90	68	35	18.6	SAND, silty
B-3	5			2.4													
B-3	10			3.2													
B-3	15			3.2													
B-3	20			2.8													
B-3	25			3.6													
B-4	2			2.5													
B-4	5	SM	104	2.8						100	100	99	94	79	43	20.7	SAND, silty

X8e Vinyard Project No.: 13-1-027

Project: Pump Surge & Chlorinator Buildings & Water Pipeline

Table No.: 1

SUMMARY OF LABORATORY TEST DATA

Test Hole	Depth (feet)	Unified Classification	Natural Dry Density (pcf)	Natural Moisture Content (%)	Atterberg Limits		SIEVE ANALYSIS-% PASSING BY WEIGHT										Description
							1 1/2"	3/4"	3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	
B-4	10			4.7													
B-4	15			3.6													
B-4	20			2.5													
B-4	25			3.5													
B-5	2	SM	106	3.1						100	99	94	77	43	21.2		SAND, silty
B-5	5			3.8													
B-5	10			4.7													
B-5	15			3.3						100	99	93	74	43	25.6		SAND, silty
B-5	20			2.8													
B-5	25			3.5													
B-6	2			3.3													
B-6	5	SM	105	3.2						100	99	91	71	39	21.1		SAND, silty
B-6	10			5.9													
B-6	15			3.0													
B-6	20			2.5													
B-6	25			2.3													

SUMMARY OF LABORATORY TEST DATA

Test Hole	Depth (feet)	Unified Classification	Natural Dry Density (pcf)	Natural Moisture Content (%)	Atterberg Limits		SIEVE ANALYSIS-% PASSING BY WEIGHT										Description
							1 1/2"	3/4"	3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	
B7	2	SM		5.6		PI											SAND, slightly silty
B7	5			1.3													
B7	10			4.2													
B7	15			3.9													
B7	20			4.1													
B8	2			6.1													
B8	5	SC	103	5.7						100	99	96	88	67	42.1		SAND, clayey
B8	10			2.3													
B8	15			3.6													
B8	20			5.4													
B9	2	SM-SC		7.1													
B9	5		104	4.5						100	99	98	92	62	34.8		SAND, silty, clayey
B9	10			1.7													
B9	15			2.8													
B9	20			2.9													
B10	2	SM		4.3													
B10	5		98	2.7								100	87	44	21.7		SAND, silty
B10	10			1.4													
B10	15			5.0													
B10	20			5.8													

X8e Vinyard Project No.: 13-1-027

Project: Pump Surge & Chlorinator Buildings & Water Pipeline

Table No.: 1

SUMMARY OF LABORATORY TEST DATA

[illegible]

X8e Vinyard Project No.: 13-1-027

Project: Pump Surge & Chlorinator Buildings & Water Pipeline

Table No.: 1

SUMMARY OF LABORATORY TEST DATA

[illegible]

X8e Vinyard Project No.: 13-1-027

Project: Pump Surge & Chlorinator Buildings & Water Pipeline

Proctor Samples (NGWSP Reaches 24.1 and 25 for proctor testing results)

Table No.: 1

COMPACTION TEST RESULTS

PROJECT : NGWSP Reaches 24.1 and 25

CLIENT: Souder Miller

TECHNICIAN: Geoffrey Juskiewicz

PROJECT NO.: 13-1-027

REPORT NO.: 1

DATE: 3/21/13

COA PROJECT NO.:

Test No.	Location	Elevation	Proctor Number	Field Moisture (%)	Field Dry Density (pcf)	Relative Compaction (%)	Specified Compaction (%)
T3	Backhoe pit @ sta 52+50.	-2.0' FSG	1	6.2	106.7	96	
T3	Backhoe pit @ sta 52+50.	-4.0' FSG	1	6.2	105.7	95	
T3	Backhoe pit @ sta 52+50. (Lightly cemented sand stone)	-6.0' FSG	1	5.2	108.6	98	
T4	Backhoe pit @ sta 94+00.	-4.0' FSG	3	5.6	105.1	90	
T5	Backhoe pit @ sta 94+00.	-6.0' FSG	3	5.0	94.9	81	
T6	Backhoe pit @ sta 153+50. (Sand stone at 3' deep)	-3.0' FSG	*				
T7	Backhoe pit @ sta 204+00.	-4.0' FSG	2	7.4	100.3	96	
T7	Backhoe pit @ sta 204+00.	-6.0' FSG	2	6.2	95.0	91	
T8	Backhoe pit @ sta 251+00.	-4.0' FSG	2	8.0	94.4	90	
T8	Backhoe pit @ sta 251+00.	-6.0' FSG	2	6.9	97.1	93	
T9	Backhoe pit @ sta 311+50.	-4.0' FSG	2	4.3	107.6	103	
T9	Backhoe pit @ sta 311+50.	-6.0' FSG	2	4.8	101.4	97	
T10	Backhoe pit @ sta 378+00.	-4.0' FSG	2	8.4	103.5	99	
T10	Backhoe pit @ sta 378+00.	-6.0' FSG	2	7.6	101.5	97	
T11	Backhoe pit @ sta 436+00.	-4.0' FSG	1	6.0	91.3	82	
T11	Backhoe pit @ sta 436+00.	-6.0' FSG	2	6.5	91.7	87	

Proctor Test Utilized

Proctor No.	Sample Location	Opt. Moisture Content (%)	Maximum Dry Dens (pcf)	Soil Description
1	Excavated material from Counselors water tank site @ test pit #2. Blend of 0 to -8.0' FSG (13-129)	13.1	111.2	Silty SAND
2	Excavated material from backhoe pit @ sta 251+00 (13-130)	15.0	104.9	Sandy lean CLAY
3	Excavated material from test pit #6 (13-131)	11.1	117.0	Silty SAND

WEATHER: Cloudy and windy

Page 1 of 2

EQUIPMENT: Backhoe

REMARKS: * Test No. 6 Sand stone at 3' below existing ground surface no tests were taken.

Table No.: 2

COMPACTION TEST RESULTS

PROJECT : NGWSP Reaches 24.1 and 25

CLIENT: Souder Miller

TECHNICIAN: Geoffrey Juskiewicz

PROJECT NO.: 13-1-027

REPORT NO.: 1

DATE: 3/21/13

COA PROJECT NO.:

Test No.	Location	Elevation	Proctor Number	Field Moisture (%)	Field Dry Density (pcf)	Relative Compaction (%)	Specified Compaction (%)
T12	Backhoe pit @ sta 490+50.	-2.0' FSG	1	3.5	95.7	86	
T12	Backhoe pit @ sta 490+50.	-4.0' FSG	1	4.6	93.9	84	

Proctor Test Utilized

Proctor No.	Sample Location	Opt. Moisture Content (%)	Maximum Dry Dens (pcf)	Soil Description
1	Excavated material from Counselors water tank site @ test pit #2. Blend of 0 to -8.0' FSG (13-129)	13.1	111.2	Silty SAND

WEATHER: Cloudy and windy

EQUIPMENT: Backhoe

REMARKS: Contracting personnel informed of the test results.

APPENDIX EARTHWORK PROCEDURES

General

The Geotechnical Engineer shall be the Owner's representative to observe and evaluate the earthwork operations. The Contractor shall cooperate with the Geotechnical Engineer in the performance of the Engineer's duties.

Clearing and Grubbing

Prior to placing structural fill all borrow areas and areas to receive structural fill shall be stripped of vegetation and deleterious materials. Strippings shall be hauled off-site or stockpiled for subsequent use in landscaped areas or nonstructural fill areas as designated by the Owner or his representative and approved by the Geotechnical Engineer.

Site Preparation - Fill Areas

Prior to placing structural fill the areas to be filled shall be scarified to a depth of eight inches and moisture conditioned as described below. The area to be filled shall then be compacted to a minimum of 95 percent of maximum density as determined by ASTM D-1557. If vibratory compaction techniques pose a threat to the structural integrity of nearby facilities a static compactor shall be used. Any soft or "spongy" areas shall be removed as directed by the Geotechnical Engineer and replaced with structural fill as described herein.

Site Preparation - Cut Areas

Following excavation to rough grade, all building and pavement areas shall be scarified to a depth of eight inches and moisture conditioned as described below. All building and paved areas shall be compacted to a minimum of 95 percent of maximum density as determined by ASTM D-1557. If vibratory compaction techniques pose a threat to the structural integrity of nearby facilities, a static compactor shall be used. Any soft or "spongy" areas shall be removed as directed by the Geotechnical Engineer and replaced with structural fill as described herein.

Foundation, Slab and Pavement Subgrade Preparation

Prior to placing reinforcement, footings, slabs, or pavement, the supporting soils shall be prepared, moisture conditioned, and compacted as described herein.

Fill Material

Fill material shall be nonexpansive soil which may be gravel, sand, silt or clay, or a combination thereof.

Sieve Size	Percent Passing By Weight
4"	100
1"	90-100
No. 4	70-100
No. 200	10-40

Fill material shall exhibit a plasticity index of ten or less. No organic, frozen or

decomposable material shall be utilized. All fill material shall be approved by the Geotechnical Engineer.

Fill Placement

Fill material shall be blended as necessary to produce a homogeneous material. Fill material shall be spread in horizontal lifts no greater than eight inches in uncompacted thickness, but in no case thicker than can be properly compacted with the equipment to be utilized. If fill is to be placed on slopes steeper than 5:1 (horizontal:vertical) the natural ground shall be benched with minimum three foot wide benches at maximum two foot vertical intervals.

Moisture Conditioning

Fill material shall be dried or moistened as necessary, prior to compacting, to within $\pm$ three percent of optimum moisture content as determined by ASTM D-1557. Moisture shall be distributed uniformly throughout each lift.

Compaction

Structural fill shall be mechanically compacted to the following:

	Minimum Compaction ASTM D-1557
Foundation Support	95%
Slab Support	95%
Below Slab Utility Trenches	90%
General Site Grading	90%
Pavement Support	
Upper 8" of Subgrade	95%
All other fill below pavement	90%

Aggregate Base Course shall be compacted to a minimum of 95% of maximum density as determined by ASTM D-1557.

Asphaltic concrete shall be compacted to a minimum of 96% of maximum Marshall Density (75 Blows).

Compaction by flooding and jetting is specifically prohibited unless authorized in advance by the Owner or his representative and the Geotechnical Engineer.

Observation and Testing

The Geotechnical Engineer or his representative shall perform field density tests with a frequency and at the locations he feels appropriate. The Geotechnical Engineer or his representative will perform Proctor tests on representative samples of all fill material. To minimize delays, the Earthwork Contractor is encouraged to submit soil samples prior to use for proctor testing.



Environmental • Geotechnical • Materials Testing • Geosciences • Engineering

September 18, 2013

Souder, Miller & Associates
3451 Candelaria Road NE, Suite D
Albuquerque, NM 87107

Attention: Mr. Andrew Robertson, P.E.

Subject: Revised Soil Shrinkage for NGWSP Reaches 24.1 and 25
Proposed Water Tanks, Pump Surge, Chlorinator Buildings and Water Pipeline
X8e Vinyard Project No. 13-1-027 dated April 29, 2013

Dear Mr. Robertson:

As requested, X8e Vinyard has performed Soil Shrinkage factors for the subject project. The following Table presents the Shrinkage factors that have been determined for the following locations.

Location	Shrinkage range based on 95% Compaction Using the Modified Proctor ASTM D1557	Shrinkage range based on 90% compaction using the Modified Proctor ASTM D1557
1MG Counselor Water Tank Site	3.0 to 7.0% (1.03 to 1.07)	2.0 to 5.5% (1.02 to 1.055)
Booster Pump Site	0 to 6.5% (1.00 to 1.065)	0 to 4.0% (1.00 to 1.04)
Waterline, Approximately 10.7 miles long	0 to 22.0% (1.00 to 1.22)	0 to 15.0% (1.0 to 1.15)

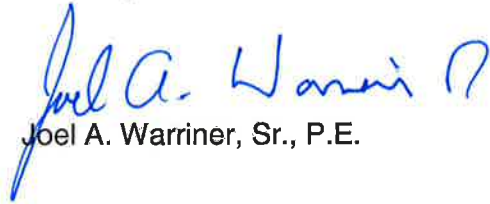
The Ojo Encino Site was investigated using test pits and no density tests were performed. However, the site is generally located in an area where bedrock consisting of weathered Sandstone and was encountered at depths ranging from 2 ½ to 6 ½ feet below the existing ground surface. Below the weathered Sandstone the material encountered in our test pits consisted of very dense Sandstone. General Shrinkage factors may vary between 0 to 5% (1.00 to 1.05) for the Ojo Encino Site depending on the depth to dense Sandstone. The dense Sandstone may bulk up during excavating for the proposed water tanks and chlorinator foundations.

The Shrinkage factor ranges presented in the above Table are based on the in-place-density test results performed at the Test Pit and Test Hole Locations. The Test Pits and Test Holes allow observation of a very small portion of the soils below the sites. Significant variations in

subsurface conditions may occur across the site, which were not disclosed by the Test Pits and Test Holes.

Should you have any questions regarding the enclosed data or if we may be of further service, please call.

X8e Vinyard

A handwritten signature in blue ink, reading "Joel A. Warriner, Sr.", is written over the printed name.

Joel A. Warriner, Sr., P.E.

JAW/cm

EXHIBIT B

Soil and Rock Potholing Information

Note: The following clarification is made within Article 1.3.K of Section 01 00 00 of the Technical Specifications with regard to soil and rock potholing information.

Data in Exhibit B – Soil and Rock Potholing Information identifies the results of the ‘potholing’ that was performed at various locations along the waterline alignment. Contractor is advised that test potholes reveal information about only a very small area, and sub-surface conditions between the test holes may vary. The results of the potholing are provided for Contractor’s convenience only; they are not considered “Technical Data”, as defined in Article 5.03 of the General Conditions, upon which the Contractor is entitled to base his/ her bid. Contractor shall not make any claims due to differing sub-surface conditions based on the information provided in Exhibit B.

Navajo Gallup Water Supply Project, Reaches 24.1 and 25, "Pot-Holing" Information						
Counselor Central Tank to Ojo-Encino North Tank, New Mexico						
All coordinates are in NAD83 system zone 12N						
Hole #	Station	Latitude	Longitude	Subsurface Conditions	USCS Soil Classification	Depth to Refusal
1	-2+37.36	36.16781	107.50177	Silty-Sand, underlain by sandstone	SMW	5 feet
2	2+68.04	36.16726	107.50030	Sand	SW	None at 8 Feet
3	18+85.28	36.16550	107.49529	Sand, underlain by friable sandstone	SW	8 Feet
4	35+11.81	36.16351	107.49039	Sand with small pieces of sandstone	SW	None at 8 Feet
5	48+61.10	36.16253	107.48635	Sand, underlain by friable sandstone	SW	None at 8 Feet
6	63+50.56	36.16078	107.48219	Sand	SP	None at 8 Feet
7	79+20.66	36.15903	107.47733	Sand with small pieces of sandstone	SW	None at 8 Feet
8	95+80.04	36.15734	107.47211	Sand, underlain by friable sandstone	SW	None at 8 Feet
9	111+66.56	36.15669	107.46683	Sand with small pieces of sandstone	SW	None at 8 Feet
10	130+45.36	36.15633	107.46075	Sand, underlain by sandstone	SW	7.5 Feet
11	156+44.50	36.15038	107.45589	Sand, underlain by friable sandstone	SW	None at 10 Feet
12	181+22.24	36.14473	107.45123	Sand, underlain by friable sandstone	SW	None at 8 Feet
13	205+60.40	36.13899	107.44698	Sand, underlain by friable sandstone	SW	None at 8 Feet
14	225+07.83	36.13406	107.44457	Sand, underlain by friable sandstone	SW	None at 8 Feet
15	251+19.49	36.12738	107.44139	Sand	SW	None at 8 Feet
16	253+08.38	36.12353	107.43885	Sand, underlain by sandstone	SW	7 Feet
17	269+03.36	36.12741	107.44210	Sand	MW	None at 8 Feet
18	271+26.47	36.12361	107.43984	Sand	MW	None at 8 Feet
19	290+52.37	36.11929	107.43488	Silt, underlain by sand	MW to SW	None at 9 Feet
20	305+95.05	36.11536	107.43404	Silt with calcium carbonate cementation	MW	None at 8 Feet
21	325+48.26	36.11095	107.43073	Sand	SW	None at 8 Feet
22	336+54.46	36.10836	107.42873	Sand, underlain by sandstone	SW	3.3 Feet
23	347+50.00	36.10561	107.42792	Friable Sandstone visible at surface	-----	0 Feet
24	350+06.34	36.10490	107.42780	Sand with calcium carbonate cementation	SW	None at 8 Feet
25	364+74.55	36.10158	107.42539	Sandy Clay	SC	None at 8 Feet
26	383+38.63	36.09835	107.42049	Silty-clay grading to Silt	MW	None at 8 Feet
27	392+21.13	36.09668	107.41888	Sandstone visible at surface	-----	0 Feet
28	394+49.78	36.09624	107.41830	Silty-clay grading to Silty-sand	MC to SM	None at 8 Feet
29	410+50.23	36.09266	107.41528	Sand, underlain by friable sandstone	SW	7.5 Feet
30	418+55.34	36.09053	107.41455	Sand	SW	None at 8 Feet
31	437+15.79	36.08567	107.41270	Clay grading to silty-sand	CW	None at 8 Feet
32	450+63.88	36.08199	107.41218	Clay interbedded with clayey-silt	CW	None at 8 Feet
33	464+88.88	36.07813	107.41138	Sand with small pieces of sandstone	SW	None at 8 Feet
34	479+60.14	36.07419	107.41027	Silty-clay grading to sand	MCW to SW	None at 8 Feet
35	492+12.29	36.07084	107.40931	Hard clay grading to Sandy-silt	CW to SMW	None at 8 Feet
36	505+39.13	36.06734	107.40894	Silty-Sand	SMW	None at 8 Feet
37	512+88.91	36.06632	107.40700	Silty-Sand	SMW	None at 8 Feet
38	514+27.08	36.06625	107.40654	Sandstone visible at surface	-----	0 Feet
39	515+87.33	36.06618	107.40608	Sand	SW	None at 8 Feet
40	522+42.59	36.06477	107.40474	silty-sand, underlain by sandstone	SMW	6.7 Feet
41	529+32.15	36.06406	107.40279	Silty-sand grading to sand with sandstone	SMW to SW	None at 8 Feet
42	540+05.50	36.06465	107.39931	silty-sand, underlain by sandstone	SMW to SW	6.7 Feet
43	547+54.12	36.06553	107.39716	Silty-clay	MCW	None at 8 Feet
44	552+91.00	36.06621	107.39552	Friable Sandstone visible at surface	-----	0 Feet
45	558+16.55	36.06688	107.39393	Sand, underlain by friable sandstone	SW	None at 8 Feet
46	563+20.50	36.06696	107.39238	Sandstone near water tower	SW	None at 8 Feet

The Unified Soil Classification System (USCS) uses letter(s) to denote the dominate grain sizes in the soil and another letter to describe the soil as poorly graded (uniform particle size) or well-graded (diverse particle size).

USCS Symbols Used:	
S - Sand	W - Well-graded
M - Silt	P - Poorly graded
C - Clay	

EXHIBIT C

Submittals Checklist



SUBMITTALS CHECKLIST

Project Name:

Navajo Gallup Water Supply Project
Reaches 24.1 & 25

Project Number: 6921307

Item	Date Received	Date Reviewed	Review Status	Comments
Basic Requirements 01 00 00				
SWPPP Plan				
Construction Progress Schedule				
O&M manuals				
Closeout Documents				
Concrete Forms and Accessories 03 10 00				
Concrete Form Materials				
Concrete Form release Agent				
Concrete Reinforcement 03 20 00				
Concrete Reinforcement				
Reinforcing Steel Placing Drawings				
Joints in Concrete 03 29 00				
Waterstops				
Joint Locations				
Cast-In-Place Concrete 03 30 00				
Concrete Mix Designs				
Concrete Delivery Tickets				
Concrete Materials and Curing Methods				
Cement Mill Test Reports				
Concrete Test Results				
Grout 03 60 00				
Grout Mix Design				
Grout Manufacturer's Technical Data w/ application manual				
Unit Masonry 04 20 00				
CMU Samples w/ certifications				
CMU test reports				
Split-face CMU				
Smooth-face CMU				
CMU color				
Rough Carpentry 06 10 00				
Rough Carpentry Shop Drawings / Manufacturer's catalogs				
Steel Doors and Frames 08 11 13				
Personnel door, with hinges, safety devices, and hardware				
Door frames				
Door and Frame Configurations				
Door finish, incl. color				
Cane bolt and gate stop				
Door closer				
Bullet-Resistant Steel Doors and Frames 08 11 14				
Bullet resistant man door, with safety devices, hinges, sight glass, and hardware				
Door frames				
Door and Frame Configurations				

Item	Date Received	Date Reviewed	Review Status	Comments
Door finish, incl. color				
Cane bolt and gate stop				
Door closer				
Overhead Coiling Doors 08 33 23				
Overhead Coiling Doors				
Door Hardware 08 71 00				
Door hardware				
Water Storage Tank Painting 09 97 14				
Paint Specifications				
Paint Schedule				
Color Charts				
Holliday Testing Tanks				
Thickness Tests				
MEK Double Rub Test Results				
Chlorination Facility Plumbing 22 11 05				
Steel Piping				
PVC Schedule 80 Pipe				
Unions, Elbows and Fittings				
Ball Valves				
Check Valves				
Gate Valves				
Air Release Valve				
Pressure Release Valve				
Valve Actuator Booster Pump				
Chlorine Feed Booster Pump				
Unistrut / Pipe supports				
Y-Strainer				
Pipe Sleeves				
Pressure Gauges				
Electronic Control Valve and valve controller				
Hose Bibs and Sample Cocks				
Electronic Control Valve Controller				
Hydropneumatic Tank				
Hangers and Supports				
Pre-Manufactured Booster Pump System 22 11 43				
Mechanical drawings				
Warrantee documentation				
UL label				
Sequence of operations, system operation, control logic				
List of SCADA registers with descriptions of each register and requirements				
Copy of PLC program				
Wiring and control diagrams				
Control panel layout drawings				
Color charts/finish samples				
Design data and operating conditions				
Statement of total suction side and discharge side headlosses within pump station at design flow rate				
Statement of "wire to water" efficiency				

Item	Date Received	Date Reviewed	Review Status	Comments
Letter certifying compliance with Hydraulic Institute design, construction and testing standards				
Letter certifying compatibility between pump station and public power supply, stating both that available power supply will meet pump station requirements and that pump station will not adversely affect power supply				
O&M Manuals				
Welder's qualifications				
Test procedures, requirements and checklists				
Pump Test Results				
Motor Test Results				
Hydrostatic Test Results				
Electrical Sequence Test Results				
Start-up service report				
Bill of Materials				
Bullet resistant building, specification, drawings, design basis				
Interior and exterior structural steel coatings				
Pipe supports and hangers				
Bullet-resistant doors, hinges, safety devices & hardware (for double doors & personnel doors)				
Door closers				
Door cane bolts and gate stops				
Bridge crane				
Pumps, incl. all accessories and appurtenances				
Actual pump curves				
Mechanical seals				
Pump shafts				
Motors				
Motor winding thermostats				
Piping and fittings				
Coatings for piping and fittings				
Flexible couplings				
Elastomeric connectors				
Butterfly valves				
Gate valves				
Check valves				
Pressure relief valve				
Suction diffusers				
Air Valves				
Ball valves				
Couplings and connectors				
Receptacles				
Lighting				
HVAC equipment				
Motor Control Center				
Variable Frequency Drive				
Programmable Logic Controllers				

Item	Date Received	Date Reviewed	Review Status	Comments
Human Machine Interfaces				
Communication devices				
Power supplies				
TVSS				
Surge protection				
Line reactor				
Load reactor				
Breakers and boxes				
Relays				
Panels and enclosures				
Pressure gauges and dampeners				
Differential pressure switches				
Magnetic flow meter and transmitter				
Pressure transducers				
Corrosion Protection				
Spare parts list				
General Electrical Provisions 26 01 00				
Electrical Identification				
Signage				
Raceways 26 11 00				
Metal Conduit and Tubing				
Nonmetallic Conduit				
Plastic-coated metal conduit				
Fittings				
Warning Tape				
Wires and Cables 26 12 00				
Installer Qualifications				
Testing Agency Qualifications				
25KV Cable				
Splice Kit				
Supports				
Terminators				
Test Reports				
Building Wire				
Connectors and Splices				
Test Reports				
Transformers 26 12 16				
Transformer Product Data				
Transformer Shop Drawings				
Test Reports				
Outlet Boxes 26 13 00				
Boxes, Enclosures, and Cabinets				
Handholes and UG Boxes				
Control Voltage Electrical Wire and Cables 26 05 23				
Communication Cable				
Paired Cable				
Control Wire				
Test Reports				
Wiring Devices 26 14 00				
Receptacles				
Switches & Occupancy Sensors				
Device Cover Plates				
Test Reports				
Motor Starters 26 15 50				
Motor Starter				
Test Reports				

Item	Date Received	Date Reviewed	Review Status	Comments
Panelboards 26 16 00				
Load Center Product Data				
Protective Device Product Data				
TVSS Product Data				
Load Center Shop Drawings				
Panel Schedules				
Test Reports				
Motor and Circuit Disconnects 26 17 00				
Fusible Switches				
Non-Fusible Switches				
Fuses 26 18 10				
Product Data for Fuses				
Chlorinator Instrumentation and Controls Requirements 26 27 33				
Cl2 Building Electrical Shop Drawings / Electrical Diagram				
Magnetic Flow Meter				
PLC Control Panel				
Pressure Transmitter				
Thermostat				
Limit switch				
Intrusion switch				
Antenna Mounting Supports				
RTUs				
Smoke Detectors				
Cabinets				
Other switches				
Relays				
Pilot lights				
Overcurrent protection				
Wiring Diagram				
O&M Manuals				
Spare parts list				
Warranties and software licenses				
Commissioning binder				
Record documents				
Test Reports				
Impressed Current Cathodic Protection 26 42 10				
Design calculations				
Design drawings (arrangement & details)				
Anode				
Rectifier				
Batteries				
Elapsed time meter				
Potential control devices				
Electrical cable				
conduits				
Reference cells				
Cable connectors				
Connection insulation				
Anode suspension ropes				
Final Certified Operations Report				
CP System Service Agreement				
Grounding 26 45 00				
Grounding Conductors				
Grounding Connectors				
Ground Rods				
Test Reports				

Item	Date Received	Date Reviewed	Review Status	Comments
Exterior Lighting 26 56 00				
Exterior Light Fixtures				
Test Reports				
Lightning Protection 26 60 10				
Conductors				
Air Terminal Rods				
Ground Rods				
Connectors				
Conductors				
Installation Drawings				
Test Reports				
SCADA Radio Telemetry System 27 43 30				
Installation plan				
Equipment list				
O&M Data and Spare Parts List				
MAS Radio				
Remote Antennas				
Transmission Lines				
Block Diagrams				
Wiring Diagram				
Coaxial Transient Surge Protector				
Test Reports				
Backfill 31 23 23				
Compaction Tests				
Proctor Tests & Soil Classification				
Fill Material Testing Data				
Engineered Fill Material				
Import Fill Material				
Soil Cement Slurry 31 23 25				
Soil Cement Mix Design				
Soil Cement Installation Plan				
Rip Rap and Rock Lining 31 37 00				
Rock for wire enclosed riprap				
Rock for uncaged riprap				
Wire cage material				
Stakes				
Geotextile Fabric				
Aggregate Base Course and Gravel 32 11 23				
Gravel				
Base Course				
Chain Link Fences and Gates 32 31 13				
Fencing Materials				
Fencing Installation Plan				
Swinging Gate with center stop				
Seeding 32 92 19				
Seed Mixtures				
Weed-free certification				
Seeding Procedure and Dates				
Mulch, if used				
Public Water Transmission Systems 33 11 13				
Permission to Tap from NTUA				
Pipe Restraint Plan				
Jointed PVC Waterline Pipe				
Jointed PVC Pipe Factory Tests				
Petroleum-resistant pipe gaskets				

Item	Date Received	Date Reviewed	Review Status	Comments
Fusible PVC Waterline Pipe, including color, pressure class, min. bending radius, max. safe pull force, third-party quality assurance testing results				
Fusible PVC Fusion technician qualification certificates				
Fusible PVC fusion machines, data loggers, cooling equipment				
Fusible PVC Pipe Supplemental Factory Tests				
FPVC Fusion Destructive Testing Results				
Fusible PVC bead removal equipment				
Pipe fusion machine data logs and QA/QC report from fusible PVC pipe supplier				
Fusible PVC Sweeps				
Fusible PVC Sweeps Factory Tests				
Pipe Fittings				
Mechanical Joint Restraints				
Steel Pipe				
Steel Pipe coatings				
Steel pipe and fittings - factory testing				
Flanges				
Fabricated Steel Fittings				
FBE coatings for Steel pipe and fittings				
Cold-applied tape coatings				
Steel pipe welding - field and shop testing				
Custom Steel Fittings Shop Drawings				
Tapping Saddles				
Tapping Sleeves				
Cathodic Protection - materials, design drawings & calculations, and NACE certification				
Electrical isolation kits RF tests				
Detectable Warning Tape				
Tracer Wire				
Marker posts				
Casing (steel & PVC)				
Casing spacers				
Casing end seals				
Petroleum-resistant end seals				
Foam Pig				
Holliday Testing Pipe coatings				
Holliday Testing Fitting coatings				
Cure Testing results for coatings				
Touch up epoxy materials and application method				
Cathodic protection start-up & testing reports				
Steel pipe & fitting weld X-rays				

Item	Date Received	Date Reviewed	Review Status	Comments
Proposed & actual pipe lines and grades (if different from those shown on Plans)				
Pressure Tests				
Pre-construction site photos/video				
Water Surge Control Tanks 33 12 15				
Surge Tanks				
Surge Tank equipment layout				
Equipment weights and anchor bolt design				
Transient surge analysis report				
Proco Fitting				
Pressure Transmitters				
Magnetic Level Gauge				
Start up report				
Water Utility Valves 33 12 16				
Butterfly Valves				
Gate Valves				
Orifice Plates				
Swing Check Valve				
Altitude Valve				
Air Release Valve				
Comb. Air/Vacuum Valves				
Vacuum Relief Valve Assembly				
Rubber Check Valve				
2-way Ball Valve (Steel)				
2-way Ball Valve (PVC)				
3-way Ball Valve				
Cast Iron Valve Box				
Meter Can				
Concrete Valve Vault - cylindrical				
Concrete Valve Vault - rectangular				
Vault Hatch- shallow well				
Vault Hatch- Halliday				
Draft Damper				
Vault Insulation				
Valve ID Placards (incl. proof)				
Valve Warning Placards (incl. proof)				
Valve ID Tags (incl. proof)				
Open/shut-off valve tool				
Valve Coatings				
Blue paint				
Holliday Testing Valves				
Cure Testing results for coatings				
Disinfection of Water Utility Transmission Systems 33 13 00				
Disinfection Tests (Bacti)				
Disinfection Tests (Cl2 residual)				
Disinfection Plan				
Water Storage Tank Disinfection 33 13 13				
Disinfection Tests (Bacti)				
Disinfection Tests (Cl2 residual)				
Welded Steel Water Storage Tanks 33 16 19				
Tank Design Calculations (PE-sealed)				
Tank Design Drawings (PE-sealed)				

Item	Date Received	Date Reviewed	Review Status	Comments
Tank Foundation Calcs (PE-sealed)				
Found. Shop Drawings (PE-sealed)				
Floor Penetration Drawings				
Concrete Mix, drawings, curing methods, tests				
Water Level Sensor/Float				
Ladder and Safety Devices				
Pipes				
Welding Plan				
Welder's qualifications				
Tank Overflow Survey				
Expansion Joints/ Specialty fittings				
Actual tank location, elevation & configuration				
Test Reports (vacuum, hydrostatic, etc.)				
Weld X-rays Tanks				
Pipe Culverts 33 42 13				
Culvert Pipe				
Culvert Ends				
Chlorination Equipment 44 44 16				
Vacuum Regulator				
Automatic Switchover				
Electronic Cl2 Gas Controller				
Chlorine Vacuum Switch				
Chlorine Injector Nozzle				
Insertion Diffuser				
Vacuum Gauge				
Vacuum Tubing				
Chlorine Gas Cylinders				
Gas Cylinder Mounting Bracket				
Chlorine Cylinder Scale				
Chlorine Gas Detection System				
SCBA				
Miscellaneous Drawings				
Site Plans, C-28 through C-40				
MJ Flange Adapter				
Pipe Restraint Coupling				
Ball Curb Valve				
Pump / Surge Tank Site C-33 & C-34				
Floor drain lay-out shop drawings for pump station and surge tank bldgs.				
Valves DT-2				
Flap Valve				
Insect Screen				
Valves DT-11 & DT-12				
Disassembly Joint				
Corporation Stop				
Curb stop box and stationary rod				
Unitstrut				
Pipe hanger tape				
Pipe support				
Pressure transducer				
Restrained Coupling				
Gauges				

Item	Date Received	Date Reviewed	Review Status	Comments
Surge Tank Building DT-18 to DT-24				
Building shop drawings				
Truss shop drawings				
Metal roofing				
Metal roofing color				
OSB roof sheathing				
Insulation				
Interior FRP sheeting				
Chlorination Building DT-30 to DT-33				
Pre-cast Concrete Building				
Louvered Vent				
Exhaust Fan				
Pipe Insulation (at foundation)				
Wall Heater				
Wind Sock and Support				
Electrical E-105, E-106				
Steel Slotted Support Systems				
Interior Lighting				
Important Note: The items listed on this form require submittal data. However, this list should not be considered all inclusive. If Technical Specifications or the Drawings include other submittal requirements, those must be met as well. Also, the Engineer may require additional submittals beyond those identified above and/or in the Specifications and Drawings.				

EXHIBIT D

Soil Chemical Analysis



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 13, 2013

Tory Tadano
Souder Miller & Associates
3451 Candelaria, NE Suite D
Albuquerque, NM 87107
TEL: (505) 299-0942
FAX

RE: NGWSP 24.1

OrderNo.: 1306263

Dear Tory Tadano:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/6/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306263

Date Reported: 6/13/2013

CLIENT: Souder Miller & Associates

Client Sample ID: Counselor Tank

Project: NGWSP 24.1

Collection Date: 6/6/2013 9:00:00 AM

Lab ID: 1306263-001

Matrix: SOIL

Received Date: 6/6/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	7.5		mg/Kg	5	6/10/2013 12:12:53 PM	7825
Sulfate	33	7.5		mg/Kg	5	6/10/2013 12:12:53 PM	7825
SM4500-H+B: PH							Analyst: KS
pH	7.72	1.68		pH Units	1	6/12/2013 3:01:00 PM	R11254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306263

Date Reported: 6/13/2013

CLIENT: Souder Miller & Associates

Client Sample ID: Pump

Project: NGWSP 24.1

Collection Date: 6/6/2013 9:00:00 AM

Lab ID: 1306263-002

Matrix: SOIL

Received Date: 6/6/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	7.5		mg/Kg	5	6/10/2013 1:02:31 PM	7825
Sulfate	15	7.5		mg/Kg	5	6/10/2013 1:02:31 PM	7825
SM4500-H+B: PH							Analyst: KS
pH	8.67	1.68		pH Units	1	6/12/2013 3:01:00 PM	R11254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306263

Date Reported: 6/13/2013

CLIENT: Souder Miller & Associates

Client Sample ID: Ojo Encino Tank

Project: NGWSP 24.1

Collection Date: 6/6/2013 9:00:00 AM

Lab ID: 1306263-003

Matrix: SOIL

Received Date: 6/6/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	7.5		mg/Kg	5	6/10/2013 2:04:33 PM	7825
Sulfate	ND	7.5		mg/Kg	5	6/10/2013 2:04:33 PM	7825
SM4500-H+B: PH							Analyst: KS
pH	7.72	1.68		pH Units	1	6/12/2013 3:01:00 PM	R11254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306263

13-Jun-13

Client: Souder Miller & Associates

Project: NGWSP 24.1

Sample ID	MB-7825		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 7825		RunNo: 11209					
Prep Date:	6/10/2013		Analysis Date: 6/10/2013		SeqNo: 316895		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sulfate	ND	1.5								

Sample ID	LCS-7825		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 7825		RunNo: 11209					
Prep Date:	6/10/2013		Analysis Date: 6/10/2013		SeqNo: 316896		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	103	90	110			
Sulfate	31	1.5	30.00	0	104	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306263

13-Jun-13

Client: Souder Miller & Associates

Project: NGWSP 24.1

Sample ID		1306263-002ADUP		SampType: DUP		TestCode: SM4500-H+B: pH															
Client ID:		Pump		Batch ID: R11254		RunNo: 11254															
Prep Date:				Analysis Date: 6/12/2013		SeqNo: 317993		Units: pH Units													
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		%RPD		RPDLimit		Qual	
pH		8.62		1.68																	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: SMA ABQ

Work Order Number: 1306263

RcptNo: 1

Received by/date: AT 06/06/13

Logged By: Anne Thorne 6/6/2013 9:00:00 AM

Anne Thorne

Completed By: Anne Thorne 6/6/2013

Anne Thorne

Reviewed By: *[Signature]* 06/06/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered?

Log In

4. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
5. Were all samples received at a temperature of >0° C to 6.0° C Yes ☐ No ☐ NA ☒
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Project Manager: Tory Tadano

Sampler: Same

On Ice: ☐ Yes ☒ No

Sample Temperature: 23.4

Container	Preservative	HEAL No.
1		
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Container Type and #	Preservative Type

Container

Date	Time	Matrix	Sample Request ID

11/6/13	9:00	Soc	Counselor Tank
			Pump
			Go Encino Tank

Remarks:

Received by:	Date	Time

Date:	Time:	Relinquished by:

Date:	Time:	Relinquished by:

Received by:	Date	Time	R
<i>[Signature]</i>	06/06/13	0940	

Received by:	Date	Time

Date:	Time:	Relinquished by:

Date:	Time:	Relinquished by:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.