



**State of New Mexico  
General Services Department  
Purchasing Division  
(505) 827-0472**

Amendment No. **ONE**

Date: **January 24, 2025**

To: **All Potential Bidders**

From:

*Dorothy Mendonca*

Date: 1/24/2025

Dorothy Mendonca  
New Mexico State Purchasing Agent

Re: Invitation to Bid Number: **50-52100-24-06149**

Department: **Energy, Minerals, and Natural Resources Department**

Title: **Madrid Water Tank Project**

Opening date: **January 31, 2025**

**This Amendment is issued to reflect the following change to the Bid opening date:**

**Extend Bid opening date from: January 31, 2025  
to: February 6, 2025**

**This Amendment is also issued to reflect the following:**

- 1.) Questions and Answers, including map (8 pages pages)
- 2.) Updated Construction Plan Set with revisions on Sheets 4, 9, and 10 (16 pages)
- 3.) Estimated Quantities Sheet (1 page)
- 4.) Pre-Bid Meeting Sign-in Sheet (5 pages)
- 5.) New Mexico Wage Rate sheet is updated to reflect 2025 rates (5 pages)
- 6.) Federal Davis Bacon Wage Rate sheet has been updated to reflect 2025 Highway rates (7 pages)
- 7.) The virtual component of the pre-bid meeting described on pg. 4 and pg. 12 of the ITB has been removed; there is no virtual component to the pre-bid meeting.

**If you have already submitted an electronic bid, you will need to acknowledge this amendment by resubmitting your bid. Your bid has changed from 'submitted' to 'in progress' and will not be accepted if you do not acknowledge this amendment. Click the link to get started:**

**<https://bids.scquest.com/apps/Router/PublicEvent?CustomerOrg=StateOfNewMexico>**

**All other items, terms and conditions shall remain the same.**

Procurement Specialist: **James Ortega** Phone: **(505) 795-2516** Email: **james.ortega@gsd.nm.gov**



## **Madrid Water Tank Project ITB 50-52100-24-06149**

### **Question and Answer**

- 1) Will Domestic Material be required for this project?** Yes, as stated on Pg. 4 of the ITB, this project requires contractors to comply with the “Buy America Act” requirements. Additional information can be found in the *Buy America Domestic Procurement Preference Notice* in Appendix B.
- 2) What Entity or Agency is Funding this project?** This project is federally funded by the Office of Surface Mining Reclamation and Enforcement (OSMRE), and through additional funding in the Bipartisan Infrastructure Law (BIL).
- 3) Could you provide a ductile iron pipe spec for arroyo crossing?** To be installed per AWWA C150.
- 4) Could you provide a spec for 2” inlet line from existing well?** Use schedule 40 PVC glue fit or Municiplex.
- 5) Could you provide a spec for outlet drainpipe and a profile for the connection to the tank?** Use 8” C-900 PVC. Connection to be determined by selected tank manufacturer.
- 6) Are the tank specifications from American Structures Inc equivalent to the tank specifications stated in the ITB? (Requesting approved as equal) .** This tank does appear to be an equivalent type of tank for this project.
- 7) Will a welded steel tank be accepted in lieu of a bolted tank?** Welded tanks can be considered as an equivalent option.
- 8) Confirm dimensions of tank. Drawings show 31’ diameter by 24’ to overflow which should be a minimum total height of 25’. Specs say 30’ diameter by 25’ height.** Tank needs to be sized for 125,000 gallons. The size of the tank may vary slightly depending on the manufacturer.
- 9) Ladder cages are no longer considered suitable fall protection by OSHA. Is it acceptable to delete ladder cage and replace with OSHA approved fall protection safety rail system?** Yes, everything must meet OSHA standards.
- 10) Is this a private NFPA-22 water tank for fire suppression?** Yes.



- 11) Do you require insulation for this tank?** Insulation or a heater must be provided with the tank for freeze protection.
- 12) There's not a lot of details or specifications on the tank, tank foundation, and subcut requirements of the tank. Is this anticipated to be designed by the Contractor/Supplier?** Yes, the tank manufacturer must provide the design for the tank and the tank foundation. These designs must be stamped by a registered New Mexico professional engineer. Reference *Terracon GeoReport* dated April 13, 2021 and *Western Technologies Georeport* dated April 25, 2024 (Boring ID 3) for additional earthwork preparations.
- 13) Would a Welded Steel Tank be an acceptable Option? (let us know if you need additional information on this one).** Welded tanks can be considered as an equivalent option.
- 14) I have two questions regarding this project: the details of the mandatory pre-bid mention a virtual meeting, but no virtual meeting information is provided. Is the mandatory pre-bid an in person meeting?** The pre-bid meeting is mandatory and in person. There is no virtual component. The State Purchasing Division revised the Invitation to Bid document to remove the virtual meeting reference.
- 15) Is there a geotechnical report available for the site and jack/bore locations?** The Geotechnical Report has been posted on the AML Program website here: <https://www.emnrd.nm.gov/mmd/madrid-water-tank-project/>.
- 16) Where is the link to the electronic submission?** The electronic submission link is located on Pg. 3 under "Submitted Bids". Prior to an electronic bid submission, you'll need to create a supplier account. Once you click on the link on Pg. 3, you can search for to the Water Tank Procurement (#50-52100-24-06149), and then create an account to submit a bid. Or at the top of the webpage, you can register from the <https://solutions.scquest.com/apps/Router/SupplierLogin?CustOrg=StateOfNewMexico> link. The link shown on Page 1 of the ITB is incorrect.
- 17) Could you include a Rock Excavation Bid Item in case the Contractor encounters rock during the trenching of the waterline?** No rock excavation is anticipated currently. However, as rock may be encountered, a line item was added to the quantity list.
- 18) There are several references to the Geotech report for this contract. Please make this report available to the bidders.** The link to the Geotechnical Report is posted on the AML Program and can be found here: <https://www.emnrd.nm.gov/mmd/madrid-water-tank-project/>.



- 19) The plans make the Contractor responsible for obtaining a NM DOT utility permit, is there a cost involved for this permit? Please provide us with a point of contact in the NM DOT that we may contact for this permit.** The NMDOT Utility Permit is already “approved” by NMDOT. The only permit the contractor will be responsible for from NMDOT is a Barricading Permit. Below is the NMDOT person who approved the plans.

***Marcos G. Herrera***

Utility Permit Agent

NMDOT District 5

Traffic Section

P.O. Box 4127

Santa Fe, NM 87502

Cell: 505-690-1524

[Marcos.herrera@dot.nm.gov](mailto:Marcos.herrera@dot.nm.gov)

NMDOT Barricade permit costs are calculated by per SF of barricade area and duration of permit. Cost shall be determined upon acceptance of an Approved Traffic Control plan.

- 20) On Sheet 7 of the plans, the Boring Detail shows bedding above the casing pipe. Since this casing will be installed without digging, please explain the intent of this detail.** The hatch showing bedding above the casing pipe on Sheet 7 was incorrect and was removed from the detail.

- 21) There are several notes in the plans that require "PH corrective soils", please clarify the requirements for this soil.** Use Type I or Type 2 base course material per NMDOT Section 303 of the Highway and Bridge Construction specifications.

- 22) Note 1 on sheet 13 of the plans, requires that the sloped embankment be built with 3" to 4" fractured rock and Mirafi fabric. Please clarify the vertical distance between the layers of the Mirafi fabric.** This note is a reference to slope stabilization Use Mirafi 180N or equivalent and anchor fabric at the top and bottom of the slope by burying a 2' fabric overlap in a minimum 12" depth trench. Install anchor pins (3/16" diameter x 18" with washer cap) or (11 gauge 6" x6" staples) 12" o.c. in fabric overlap and bury overlap in trench. Install staples or pins 3' o.c.e.w in field of fabric and every 6" along laps and edges. Provide 6" fabric overlap on all seams. Install 8" of 3-4" fractured rock directly on fabric.

- 23) On sheet 10, please clarify the number of impact attenuators (Sled TL-2), needed to protect the ends of the CWB? There are attenuators shown in the middle of the CWB runs, are there six attenuators required as shown?** There were extra keyed notes on the plans that were incorrect and removed. One impact attenuator at each end of the CWB is required.



- 24) On sheet 9 there are three exposed pipes that need to be protected against freezing, please provide details for this work.** This may or may not be needed depending on the tank used for the project. Exposed pipes be blanketed and/or be wrapped in heat tape until pipe is buried to local frost level. Assume 10' of freeze protection for each pipe run. This will ultimately be coordinated with the local utility.
- 25) Does the tank manufacturer need to provide insulation and/or immersion heaters to protect the tank from freezing?** Yes. Consult tank manufacturer for freeze protection requirements and system availability.
- 26) Is the material for the 4" drain for the tank steel or PVC?** C-900 PVC.
- 27) Other than the ¾" line from the tank to the well house, will the contractor have any other responsibilities with the SCADA system?** Coordination with Madrid Water Board is required.
- 28) Could you add Bid Items for the Construction Staking and an item for the Quality Control Testing of the concrete and soils?** A quantity list is now provided and includes these items. Material testing shall be performed per NMDOT Section 906-Minimum Testing Requirements.
- 29) There are two fire hydrants shown in the waterline plan and profile at stations 17+32 & 21 +00. On the waterline profile at station 14+22.8, a fire hydrant tee is shown but there is no fire hydrant shown on the plan view. Is a fire hydrant required at station 14+22.8?**  
No. The 14+22.8 reference was removed from Sheet 4.
- 30) Is this work part of AML's construction on-call?** No this will be a low-bid procurement project.
- 31) Is employee health insurance required?** This will depend on the size of your company. See Page 4 of the ITB explaining NM Employees Health Coverage.
- a. If Contractor has, or grows to, six (6) or more employees who work, or who are expected to work, an average of at least 20 hours per week over a six (6) month period during the term of this Agreement, Contractor certifies, by signing this agreement, to have in place, and agree to maintain for the term of the Agreement, health insurance for those employees and offer that health insurance to those employees if the expected annual value in the aggregate of any and all contracts between Contractor and the State exceed \$250,000 dollars.
  - b. Contractor agrees to maintain a record of the number of employees who have (a) accepted health insurance; (b) declined health insurance due to other health insurance coverage already in place; or (c) declined health insurance for other



reasons. These records are subject to review and audit by a representative of the state.

- c. Contractor agrees to advise all employees of the availability of State publicly financed health care coverage programs by providing each employee with, as a minimum, the following web site link to additional information:  
<https://bewellnm.com>.

**32) Will there be a temporary pumping requirement for fire response during construction?**

There shouldn't be a need for temporary pumping. The only time the existing fire system will be interrupted is when the new line is connected to the existing line. That should only be for a short period of time.

**33) Can AML identify available areas for equipment staging/soil stockpiling?** Yes, the following areas can be utilized for staging equipment/soil stockpiling. Please see the attached map.

- a. Small area located above the water tank for some equipment staging:  
35.400724, -106.157931
- b. Large soil/equipment staging located east of the Madrid Ball Park: 35.411024, -106.1485679

**34) Traffic Control: does the winning contractor need an NMDOT permit? Is a wall barrier required? Is the traffic control plan in the engineering plan set approved by NMDOT?**

Yes, the winning contractor must obtain an NMDOT Barricading Permit. The traffic control plans included in the plan set are approved by NMDOT, however, the barricading company may submit a different plan to meet the contractors' needs for construction.

**35) Where is the nearest local water source for construction?** The nearest local water source is the "Ojo de Agua" Convenience Center located next to the SFC Public Safety Complex.

**36) How much working area is available around the tank foundation area?** Approximately 5ft around the tank foundation.

**37) Can material quantities be specified?** A quantity list is now included. See attached.

**38) I have submitted questions to the Q&A board on the SPO website. Has AML received my questions?** SPD has implemented a new Q&A system online. AML has talked to SPD and have received these questions.

**39) The contract term is 240 days, but what is the desired project start/end date?** AML would like project construction to begin immediately after the contract with the winning bidder is signed. AML would like to complete the project before June 1, 2025.



**40) Will there be excessive delays for archaeology work that the contractor needs to plan for?** No, the AML Program is not expecting any delays due to archaeology. This work will be completed before the tank project begins.

**41) How many fire hydrants will be installed on the project?** Two, one at station 17+31.22 and one at station 20+89.30.

**42) (Note from Tierra West: Delete note on station 14+20 on Sheet 4)** This note was deleted.

**43) Is production testing required for trenching?** A proctor and backfill density is required (see County testing requirements). Hydrostatic testing of the waterline is required.

**44) Who is responsible for the final inspection and acceptance of the tank foundation?**  
Tierra West will provide periodic observations and certification that the project is being built according to the plans and specifications. The New Mexico AML Program is working with local government officials to determine the final authority to inspect and accept the construction.

**45) Does the county have a nearby borrow pit source?** No specific county borrow pits have been identified.

**46) What are the NM licensing requirements or qualifications needed for this project?** The contractor must possess a valid New Mexico Contractor License appropriate for the type of work in this project. The New Mexico Construction Industries Division is the ultimate arbitrator of this issue and inquiries should be directed directly to them.

**47) Who is responsible for surveying?** The contractor is responsible for obtaining a licensed surveyor when it is needed during construction. Please add this expense to one of your lump sum bid items.

**48) Who will pay for water and fill material?** The contractor shall pay all expenses to purchase and transport any water and fill material required in the project. Please add these expenses to one of your lump sum bid items.

**49) Will any fence repairs be needed?** Yes, the fence to the west of the tank foundation will need to be rebuilt after the foundation is complete. Please include the cost to do so in your bid.

**50) What type of cathodic protection (jumper or coating)?** Other than the PH corrective soils identified in the plans, any other cathodic protection is to be at the discretion of the operator.





- 51) Does the cathodic protection need to be installed by a certified contractor?** A certified cathodic contractor is not required for the installation. Contractor should be knowledgeable with cathodic installation.
- 52) What is the process to supply the bid bond?** Page three has a note that a 5% bid bond is required. Please include the bid bond verification and Bid Bond form on page 18 with your electronically-submitted bid. The requirement to submit an original Bid bond physically prior to bid opening has been waived for this ITB.
- 53) Please provide the dimensions & Reinforcement requirements for ALL concrete foundations and site work; in particular: the water tank ring foundation and the 4' X 5' concrete pad at the top of the tank footing.** Reinforcing for the tank foundation is to be provided by the tank designer. All other concrete can be reinforced with 10x10 WWM.
- 54) Project Manual, page 13, Attachment Checklist, Item G. Subcontractor & Department of Workforce Solutions, Industrial & Labor Division Listing Requirements: Is there a separate form from the List of Subcontractors for the listing requirements?** Please use the form (or at least the format) provided on pages 25 and 26 of the project manual to list the subcontractors in your bid packet.
- 55) Are there any paint specifications?** The Madrid Water Board requests a beige color matching the nearby existing tank.

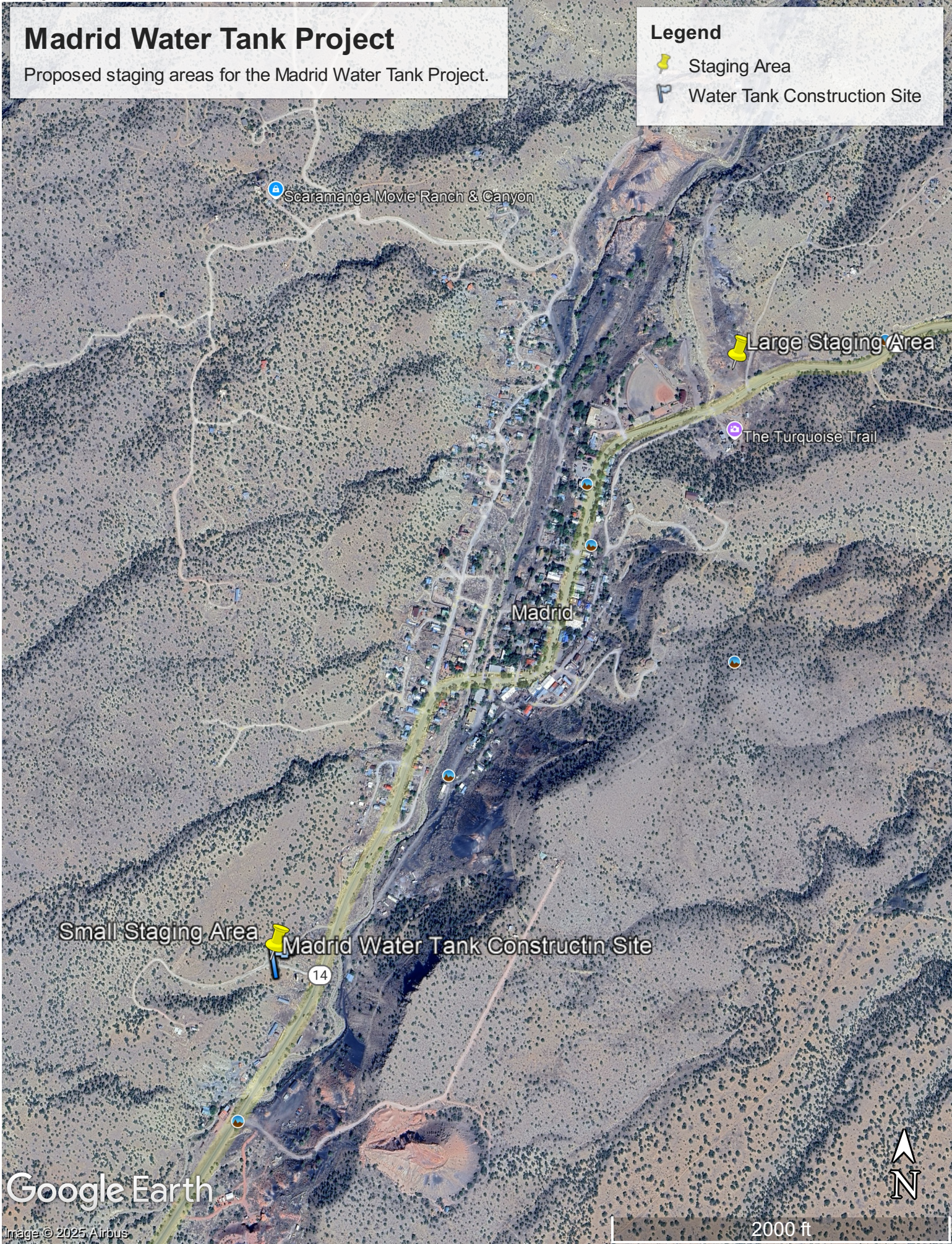


# Madrid Water Tank Project

Proposed staging areas for the Madrid Water Tank Project.

## Legend

-  Staging Area
-  Water Tank Construction Site





CONSTRUCTION PLANS FOR  
MADRID FIRE SUPPRESSION SYSTEM IMPROVEMENTS  
NM HIGHWAY 14  
SANTA FE COUNTY, NEW MEXICO  
JANUARY, 2025



VICINITY MAP


T-13-Z

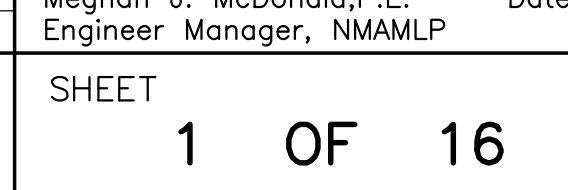
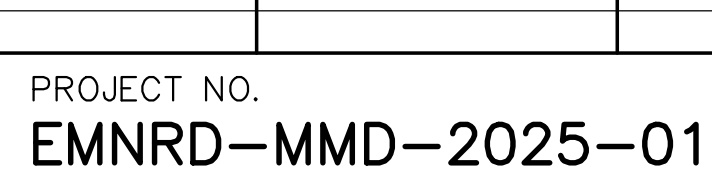
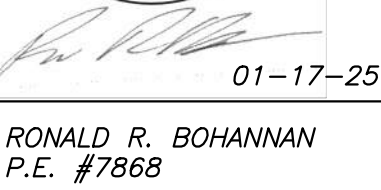
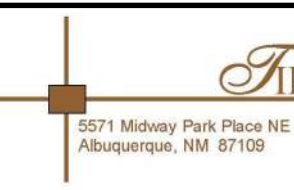
- NOTE**
1. ALL IMPROVEMENTS WITHIN NMDOT RIGHT OF WAY SHALL ADHERE TO THE NMDOT 2014 EDITION OF HIGHWAY AND BRIDGE CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS. IMPROVEMENTS RELATING TO TERRAIN MANAGEMENT MUST ALSO COMPLY WITH SECTION 7.17 OF THE SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE.
  2. IMPROVEMENTS ASSOCIATED WITH THIS PROJECT DO NOT MEET THE DEFINITION OF A PUBLIC WATER SYSTEM.

INDEX TO DRAWINGS


|    |                                 |
|----|---------------------------------|
| 1  | TITLE SHEET                     |
| 2  | GENERAL NOTES                   |
| 3  | MADRID WATERLINE 10+00 TO 13+75 |
| 4  | MADRID WATERLINE 13+00 TO 20+00 |
| 5  | MADRID WATERLINE 19+50 TO 21+75 |
| 6  | GRADING AND DRAINAGE PLAN       |
| 7  | CONSTRUCTION DETAILS            |
| 8  | CONSTRUCTION DETAILS            |
| 9  | TANK SPECIFICATIONS             |
| 10 | TRAFFIC CONTROL PLAN            |
| 11 | TRAFFIC CONTROL PLAN            |
| 12 | TRAFFIC CONTROL DETAILS         |
| 13 | STOCKPILE PLAN                  |
| 14 | EROSION CONTROL PLAN            |
| 15 | EROSION CONTROL NOTES           |
| 16 | EROSION CONTROL DETAILS         |

**Tierra West, LLC**  
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ALBUQUERQUE, NEW MEXICO 87109  
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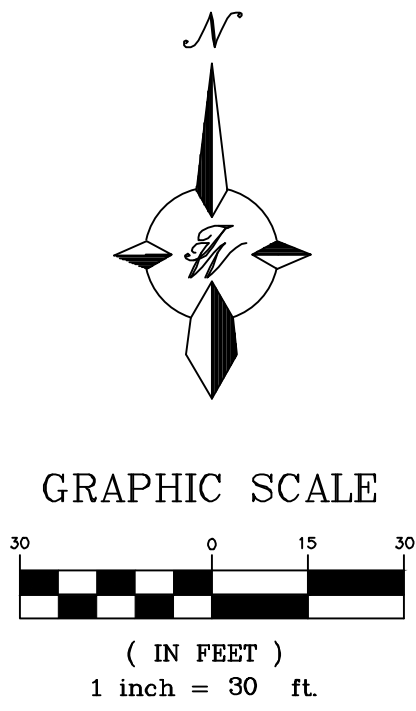
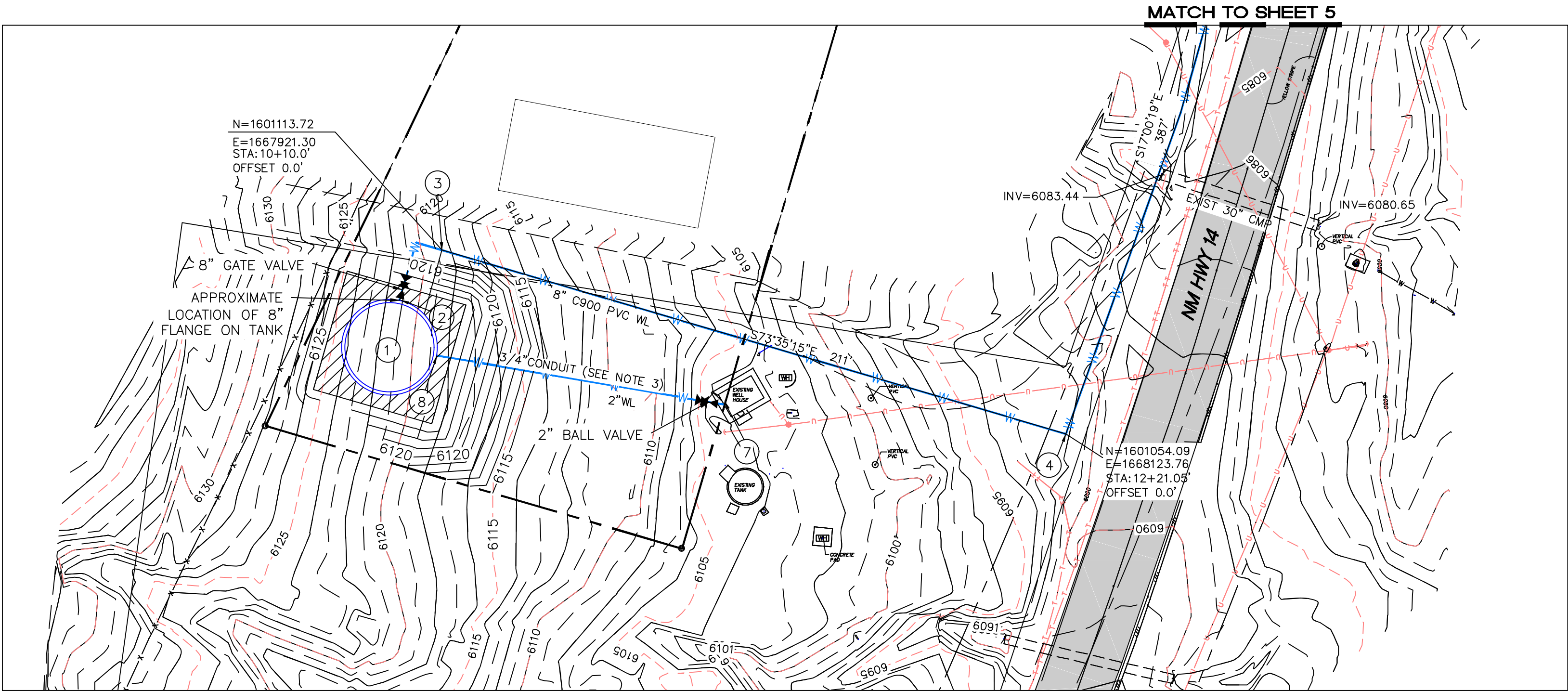
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| REV   | SHEETS | COUNTY ENGINEER | DATE | USER DEPT. | DATE | USER DEPT.  | DATE |
| ENGINEERS STAMP & SIGNATURE   |        | APPROVALS       |      | ENGINEER   | DATE | *****   |      |
| <br>RONALD R. BOHANNAN<br>P.E. #7868 |        |                 |      |            |      | APPROVED FOR CONSTRUCTION                           |      |
|   |        |                 |      |            |      |   |      |
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|   |        |                 |      |            |      | Meghan J. McDonald, P.E.<br>Engineer Manager, NMAML |      |
|   |        |                 |      |            |      | Date  |      |
|   |        |                 |      |            |      | SHEET   |      |
|   |        |                 |      |            |      | 1 OF 16   |      |





|  |  |                    |   |  |            |
|--|--|--------------------|---|--|------------|
|  <b>TIERRA WEST, LLC</b><br>5571 MIDWAY PARK PLACE NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505) 858-3100<br><a href="http://www.tierrawestllc.com">www.tierrawestllc.com</a> | NO.  | DATE               | DESIGNED BY   | DRAWN BY   | CHECKED BY |
| NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE<br>ABANDONED MINE LAND PROGRAM  |  |                    |   |  |            |
| <b>TITLE:</b><br><b>MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS</b><br>GENERAL NOTES  |  |                    |   |  |            |
| PROJECT NO.<br><div style="text-align: center; font-size: 1.2em;">EMNRD-MMD-2025-01</div>  | ZONE MAP NO.<br><div style="text-align: center;">—</div> | LAST DESIGN UPDATE | MO./DAY/YR.<br><div style="text-align: center; font-size: 1.5em;">2</div> | MO./DAY/YR.<br><div style="text-align: center; font-size: 1.5em;">16</div> | SHEET OF   |





**LEGEND**

- BOUNDARY LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GUY ANCHOR
- EASEMENT
- PROPOSED 8" WATERLINE

**KEYED NOTES**

- PROPOSED TANK 125000 GAL 30' DIA 25' HIGH  
BOTTOM=6124.00
- CONNECT TO TANK PER MANUFACTURER SPECIFICATIONS  
IE=6124.6
- 10+10.00 0.0 RT  
2-45' ELBOWS
- 12+21.05 0.0 RT  
2-45' ELBOWS
- NOT USED
- 2" END CAP TO BE INSTALLED BY UTILITY CONTRACTOR  
AT INTERIM
- 11+11.8 21.2 RT  
ELEV AT EXIST WELL HOUSE 6100.00
- 10+25.4 35.1 RT  
ELEV AT TANK HOUSE 6124.00

**NOTES**

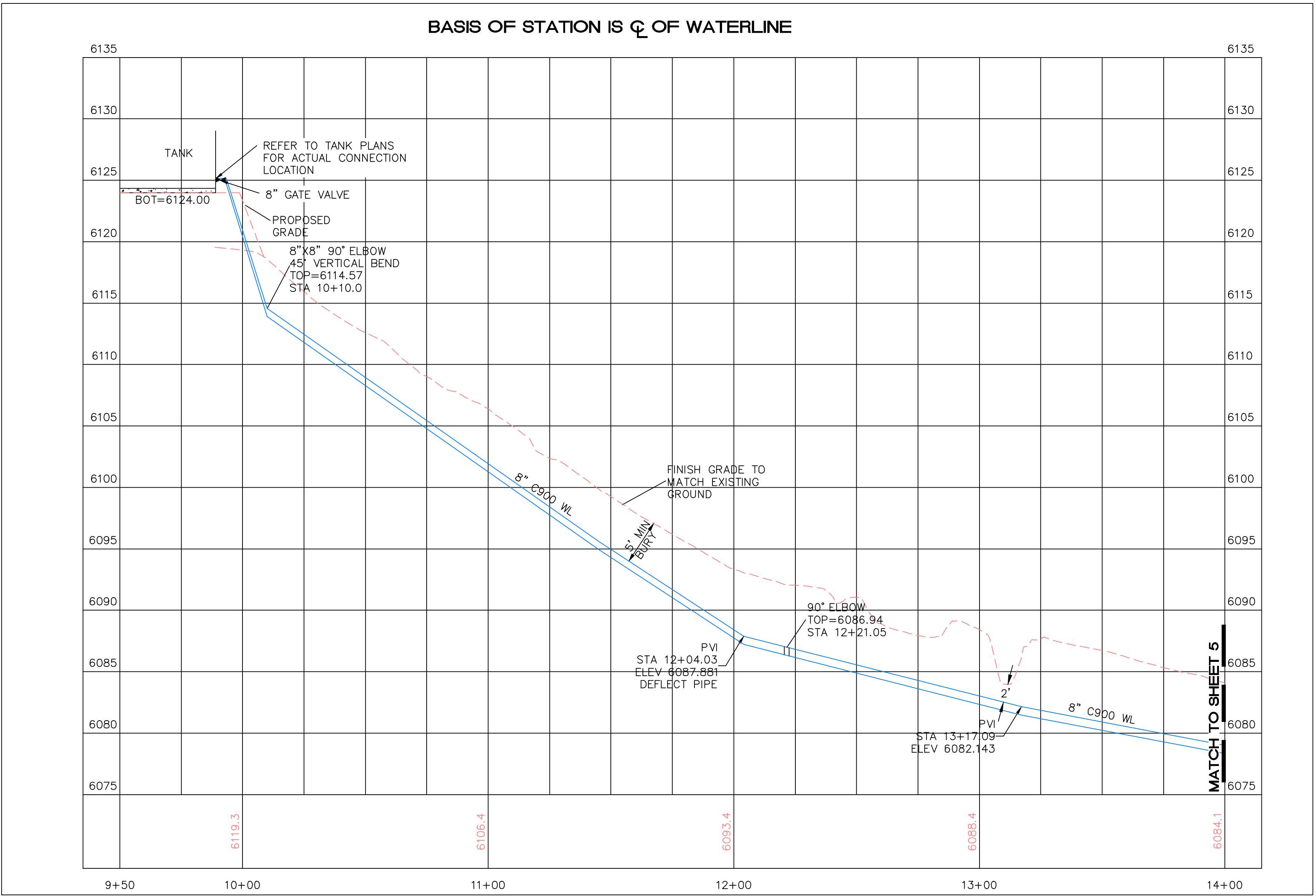
- "UTILITY CONTRACTOR" REFERS TO THE PARTY RESPONSIBLE FOR INSTALLING TANK SITE PLAN AND THE PROPOSED FIRE SUPPRESSION LINE EXTENDING FROM THE TANK FLANGE STUB OUT INDICATED ON THIS SHEET TO THE TIE-IN POINT AT THE EXISTING FIRE SUPPRESSION LINE.
- "TANK CONTRACTOR" REFERS TO THE PARTY RESPONSIBLE FOR INSTALLING THE PROPOSED WATER STORAGE TANK AND CONSTRUCTING ITS FOUNDATION.
- 3/4" PEP CONDUIT FOR SCADA SYSTEM TO BE INSTALLED IN SHARED TRENCH WITH 2" FILL LINE AT MINIMUM 1' OF SEPARATION.
- UPGRADES TO WELL HOUSE EQUIPMENT TO INTEGRATE THE NEW TANK WILL BE THE RESPONSIBILITY OF MADRID WATER MUTUAL DOMESTIC WATER COMPANY.
- ALL WATERLINES TO BE C 900 PVC, AT ARROYO CROSSING TO BE DUCTILE IRON (SEE SHEET 5)
- TRENCH FROM WELL HOUSE TO TANK WILL INCLUDE A SEPARATE CONDUIT FOR A SCADA PRESSURE TRANSDUCER.
- UTILITY CONTRACTOR IS RESPONSIBLE FOR THE WATERLINE UP TO THE LIMITS DESIGNATED ON THIS SHEET.
- INSTALLATION OF THE WATER TANK AND TANK FOUNDATION IS THE RESPONSIBILITY OF THE TANK INSTALLER.
- ACCESS TO SITE FOR MATERIAL DELIVERY AND STAGING IS LIMITED. IT IS THE RESPONSIBILITY OF THE TANK INSTALLER TO REVIEW DELIVER AND INSTALLATION LOGISTICS.
- UTILITY CONTRACTOR TO REQUEST INSPECTIONS FOR WATERLINE PRIOR TO BACKFILLING.
- MINIMUM BEND RADIUS OF 8" C900 PIPE IS 188.54 FT. MAXIMUM DEFLECTION ANGLE IS 3 DEGREES.

**CAUTION**

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

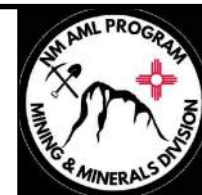
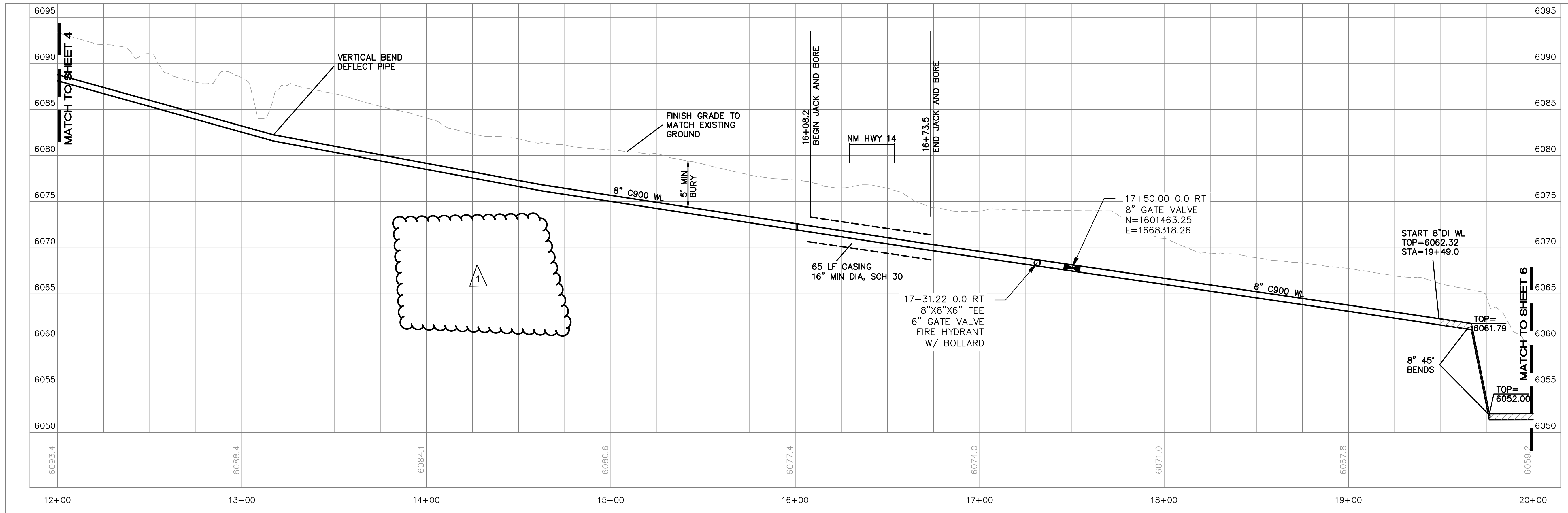
**SITE BENCHMARK**

OPUS POINT  
SET CP-NO. 5 REBAR  
WITH ALUMINUM CAP  
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|  |      |             |      |                    |    |                 |     |        |                  |
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| INSPECTOR'S  | DATE |             |      |                    |    | REVISIONS       |     |        | DRAWN BY: RMG    |
| ACCEPTANCE BY  | DATE |             |      |                    |    |                 |     |        | DATE: JUNE 2024  |
| VEGETATION BY  | DATE |             |      |                    |    |                 |     |        | DATE: JUNE 2024  |
| DRAWINGS   | DATE |             |      |                    |    |                 |     |        | JOB NO.: 2023094 |
| REVIEWED BY  | DATE |             |      |                    |    |                 |     |        | CHECKED BY: RRB  |
| MICRO-FILM INFORMATION   |      |             |      |                    |    |                 |     |        |                  |
| RECORDED BY  |      |             |      |                    |    |                 |     |        |                  |
| NO.  |      |             |      |                    |    |                 |     |        |                  |
| <div><div>TIERRA WEST, LLC</div><div>5571 MIDWAY PARK PLACE NE<br/>ALBUQUERQUE, NEW MEXICO 87109<br/>(505) 858-3100<br/>www.tierrawestllc.com</div></div> <div><div>NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE<br/>ABANDONED MINE LAND PROGRAM</div><div>TITLE:<br/><b>MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS</b><br/>STA 10+00 TO STA 14+00</div><div><div>LAST DESIGN UPDATE</div><div>MO./DAY/YR.</div><div>MO./DAY/YR.</div></div></div> <div><div>PROJECT NO.</div><div>EMNRD-MMD-2025-01</div><div>ZONE MAP NO.</div><div></div><div>SHEET</div><div>3</div><div>OF</div><div>16</div></div> |      |             |      |                    |    |                 |     |        |                  |





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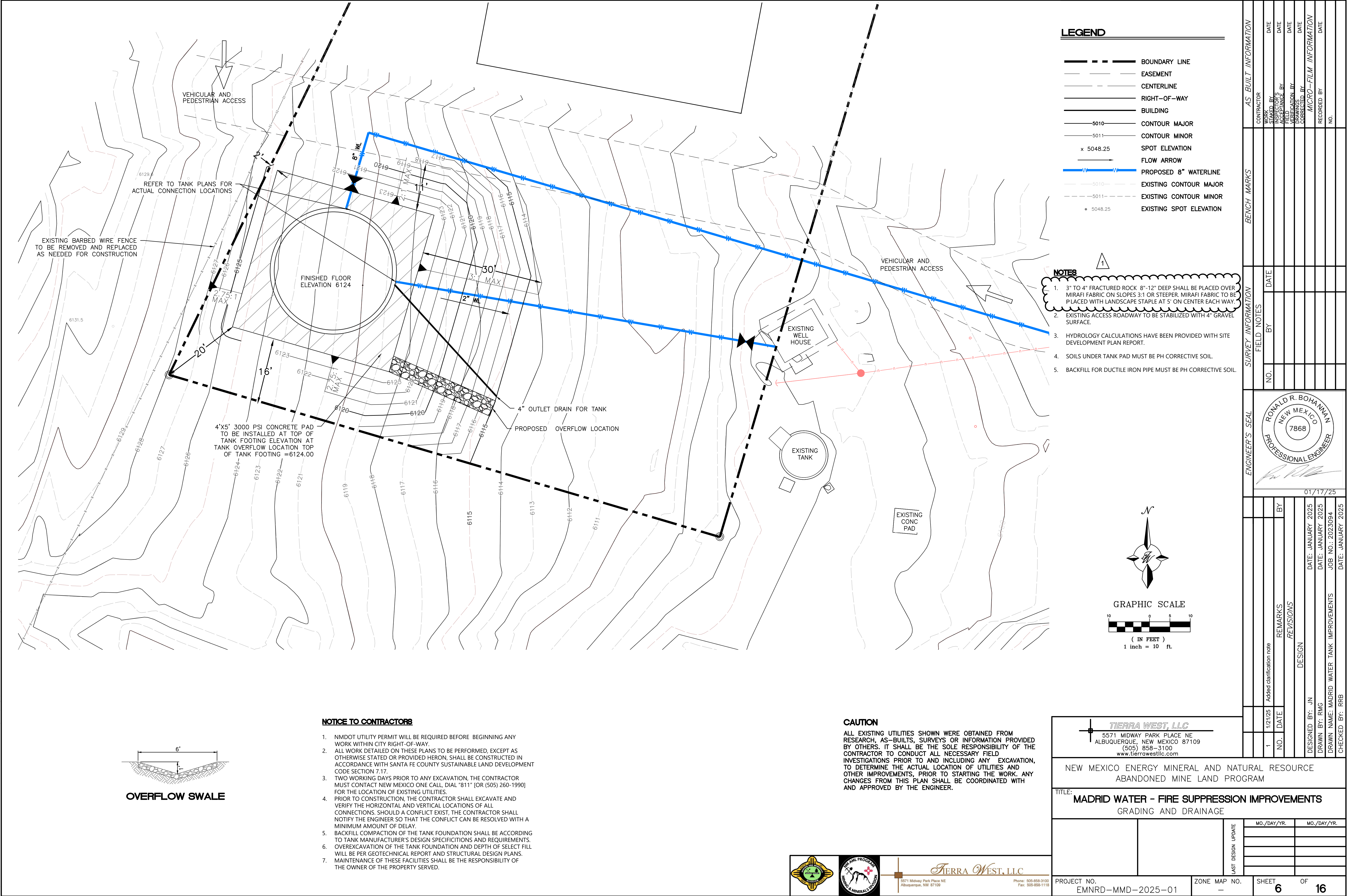
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| TITLE: <b>MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS</b><br><b>STA 12+00 TO STA 20+00</b> |             |                    |  |             |             |  |  |  |  |  |  |  |  |  |  |
|   |             | LAST DESIGN UPDATE | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">MO./DAY/YR.</td> <td style="width: 50%; text-align: center;">MO./DAY/YR.</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | MO./DAY/YR. | MO./DAY/YR. |  |  |  |  |  |  |  |  |  |  |
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|   |             |                    |  |             |             |  |  |  |  |  |  |  |  |  |  |
| PROJECT NO.<br>EMNRD—MMD—2025—01  |             | ZONE MAP NO.<br>—  | SHEET <b>4</b> OF <b>16</b>  |             |             |  |  |  |  |  |  |  |  |  |  |

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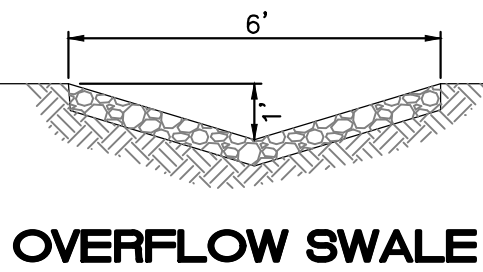








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OVERFLOW SWALE

NOTICE TO CONTRACTORS

- NMDOT UTILITY PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH SANTA FE COUNTY SUSTAINABLE LAND DEVELOPMENT CODE SECTION 7.17.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR (505) 260-1990) FOR THE LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION OF THE TANK FOUNDATION SHALL BE ACCORDING TO TANK MANUFACTURER'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
- OVEREXCAVATION OF THE TANK FOUNDATION AND DEPTH OF SELECT FILL WILL BE PER GEOTECHNICAL REPORT AND STRUCTURAL DESIGN PLANS.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

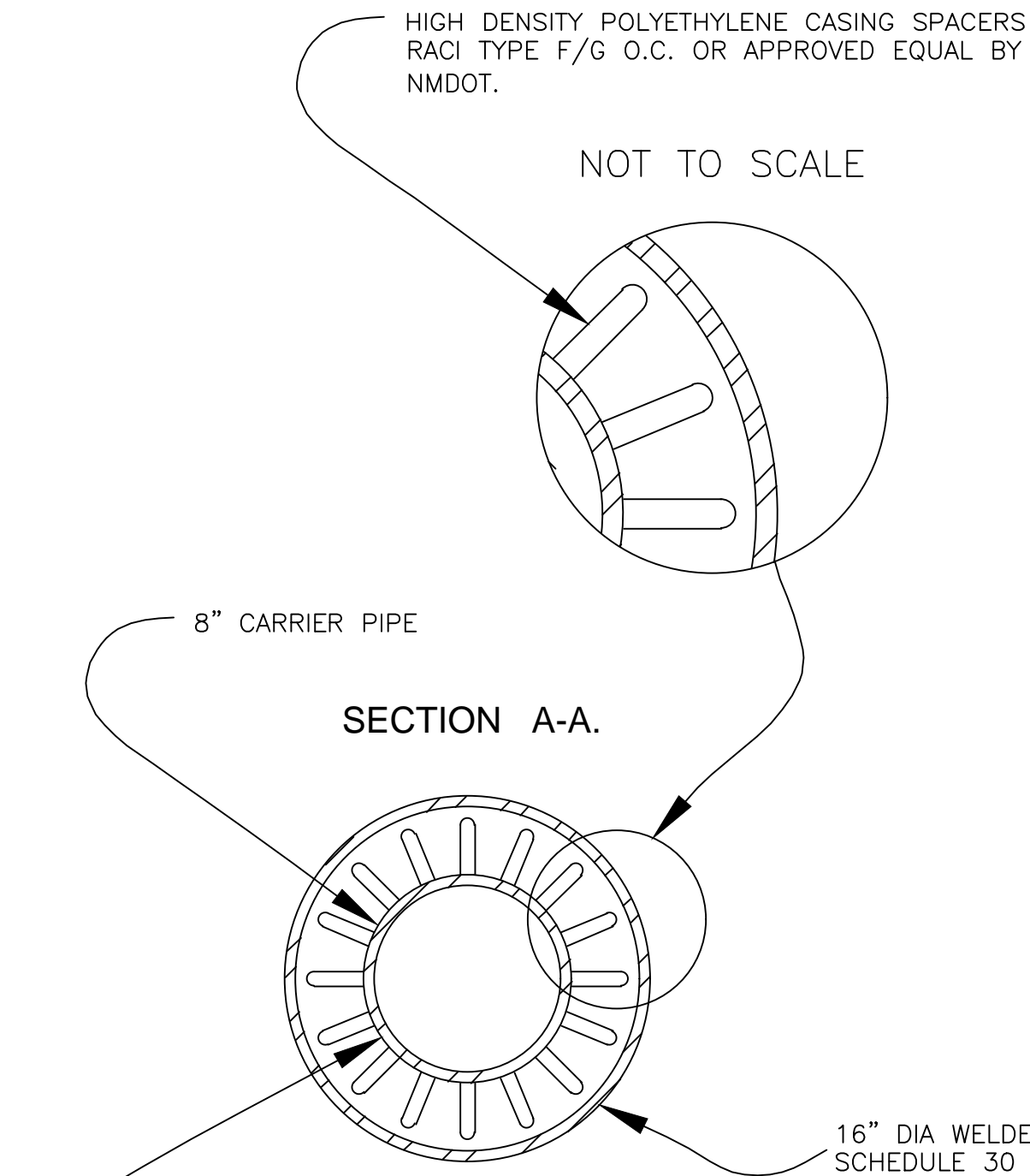
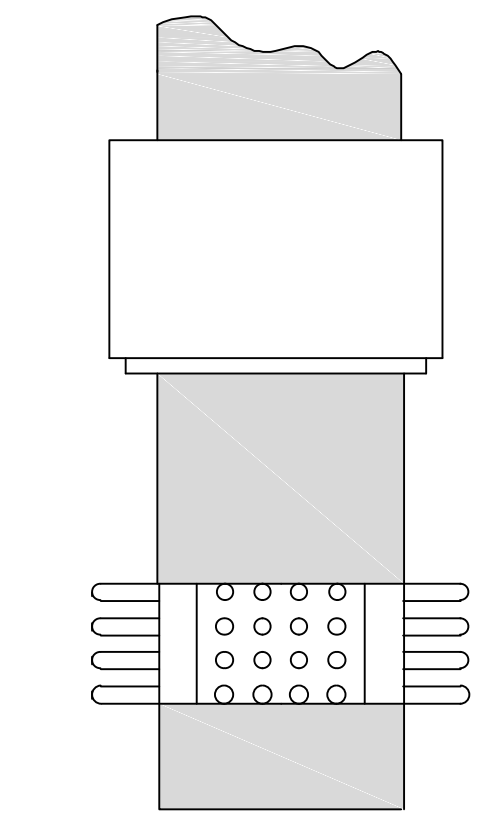
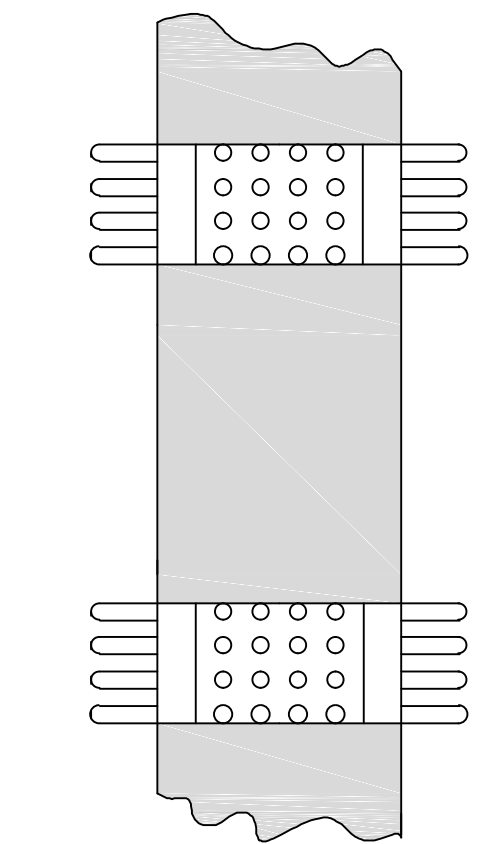
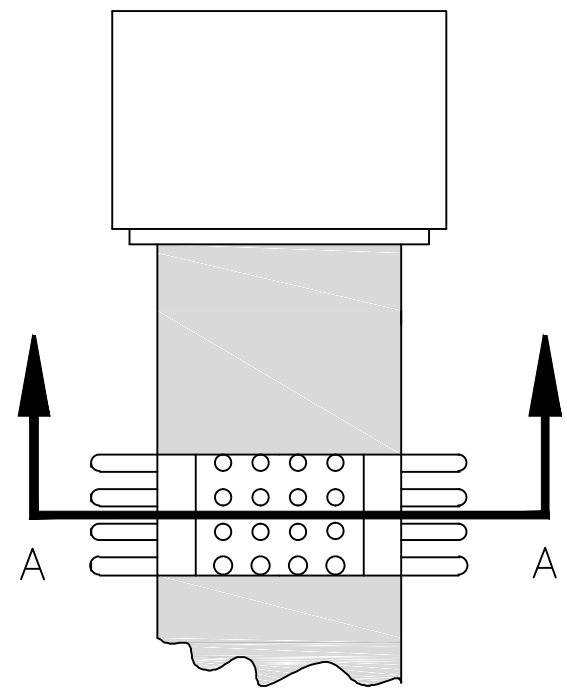


NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**  
GRADING AND DRAINAGE

| LAST DESIGN UPDATE | MO./DAY/YR.       |       |
|--------------------|-------------------|-------|
|                    |                   |       |
|                    |                   |       |
|                    |                   |       |
|                    |                   |       |
| PROJECT NO.        | EMNRD-MMD-2025-01 |       |
| ZONE MAP NO.       | -                 |       |
| SHEET              | 6                 | OF 16 |

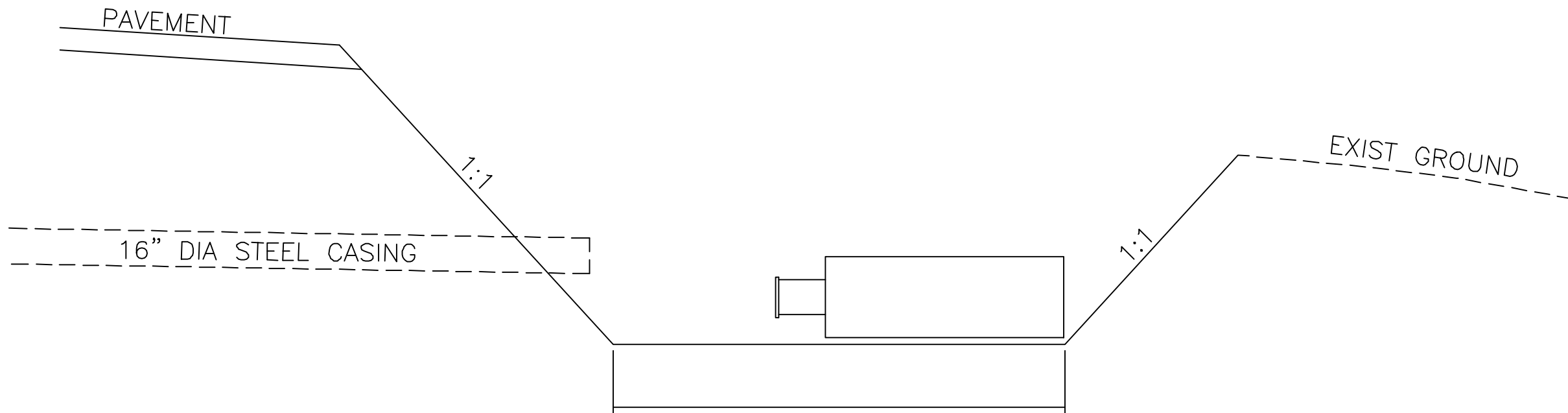




CARRIER PIPE AND SIZE PER PLAN  
FURNISHED AND INSTALLED BY CONTRACTOR

### CASING DETAIL

NTS



SEE SHEETS 5 OF 11  
FOR SENDING/RECEIVING  
PIT DIMENSIONS

### BORE PIT DETAIL

NTS

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC.  
SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL  
BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL,  
GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE  
RECALCULATED BY THE DESIGN ENGINEER PRIOR TO  
CONSTRUCTION.

| RESTRAINED JOINT LENGTHS FOR TEES* |                    |    |    |    |    |    |
|------------------------------------|--------------------|----|----|----|----|----|
| SIZE                               | LENGTH ALONG RUN** |    |    |    |    |    |
|                                    | 10'                | 8' | 6' | 4' | 2' | 0' |
| 12x12x12                           | 61                 | 68 | 76 | 83 | 90 | 98 |
| 12x12x10                           | 39                 | 48 | 56 | 65 | 74 | 83 |
| 12x12x8                            | 15                 | 26 | 37 | 48 | 59 | 70 |
| 12x12x6                            | 1                  | 1  | 9  | 24 | 38 | 53 |
| 12x12x4                            | 1                  | 1  | 1  | 1  | 16 | 37 |
| 10x10x10                           | 46                 | 54 | 61 | 68 | 76 | 83 |
| 10x10x8                            | 25                 | 34 | 43 | 52 | 61 | 70 |
| 10x10x6                            | 1                  | 5  | 17 | 29 | 41 | 53 |
| 10x10x4                            | 1                  | 1  | 1  | 2  | 20 | 37 |
| 8x8x8                              | 34                 | 42 | 49 | 56 | 63 | 70 |
| 8x8x6                              | 6                  | 15 | 25 | 34 | 43 | 53 |
| 8x8x4                              | 1                  | 1  | 1  | 10 | 24 | 37 |
| 6x6x6                              | 7                  | 24 | 31 | 39 | 46 | 53 |
| 6x6x4                              | 1                  | 1  | 6  | 17 | 27 | 37 |

\*RESTRAINTS ONLY PLACED ON THE BRANCH

\*\*LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON  
EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

| RESTRAINED JOINT LENGTHS FOR HORIZONTAL<br>BENDS, VALVES, AND DEAD ENDS (EACH SIDE) |                  |     |         |         |                    |
|---|------------------|-----|---------|---------|--------------------|
| SIZE  | HORIZONTAL BENDS |     |         |         | VALVES<br>DEAD END |
|   | 90°              | 45° | 22-1/2° | 11-1/4° |                    |
| 12  | 45               | 19  | 9       | 4       | 102                |
| 10  | 38               | 16  | 8       | 4       | 86                 |
| 8   | 32               | 13  | 6       | 3       | 72                 |
| 6   | 25               | 10  | 5       | 2       | 55                 |
| 4   | 18               | 7   | 4       | 1       | 39                 |

| RESTRAINED JOINT LENGTHS<br>FOR REDUCERS*** |         |      |         |
|---|---------|------|---------|
| SIZE  | L. SIDE | SIZE | L. SIDE |
| 12x10                                       | 50      | 10x6 | 53      |
| 12x8  | 54      | 10x4 | 70      |
| 12x6  | 74      | 8x6  | 30      |
| 12x4  | 88      | 8x4  | 52      |
| 10x8  | 29      | 6x4  | 28      |

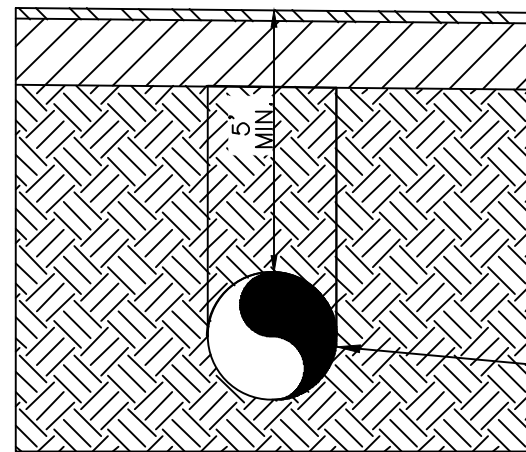
\*\*\*RESTRAINTS ONLY PLACED ON LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC.  
SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM TO 6.0'  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL  
BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL,  
GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE  
RECALCULATED BY THE DESIGN ENGINEER PRIOR TO  
CONSTRUCTION.

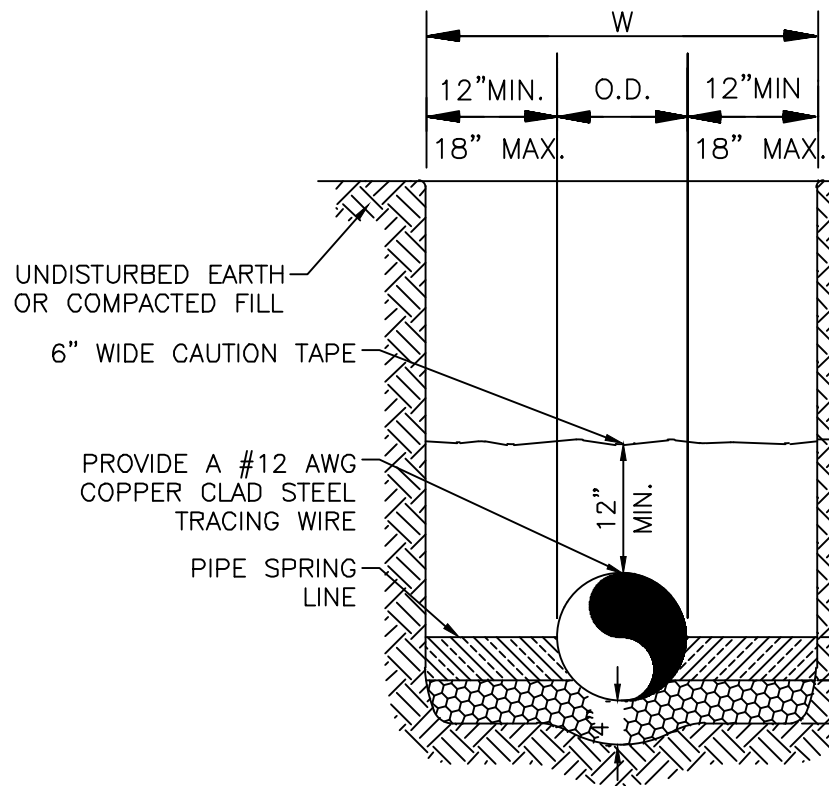
| RESTRAINED JOINT LENGTHS FOR<br>VERTICAL OFFSETS/BENDS (EACH SIDE) |                  |     |         |         |  |
|--|------------------|-----|---------|---------|--|
| SIZE   | HORIZONTAL BENDS |     |         |         |  |
|  | 90°              | 45° | 22-1/2° | 11-1/4° |  |
| 12 UPPER   | DON'T USE        | 42  | 20      | 10      |  |
| 12 LOWER   | DON'T USE        | 10  | 5       | 2       |  |
| 10 UPPER   | DON'T USE        | 36  | 17      | 8       |  |
| 10 LOWER   | DON'T USE        | 8   | 4       | 2       |  |
| 8 UPPER  | DON'T USE        | 30  | 14      | 7       |  |
| 8 LOWER  | DON'T USE        | 7   | 3       | 2       |  |
| 6 UPPER  | DON'T USE        | 23  | 11      | 5       |  |
| 6 LOWER  | DON'T USE        | 5   | 3       | 1       |  |
| 4 UPPER  | DON'T USE        | 16  | 8       | 4       |  |
| 4 LOWER  | DON'T USE        | 4   | 2       | 1       |  |



### BORING DETAIL

NTS

16" STEEL  
CASING



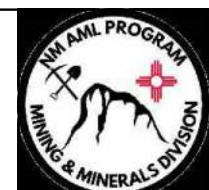
### TRENCH DETAIL

#### GENERAL NOTES

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- INITIAL BACKFILL NOT UNDER PAVED AREAS OR ALONG NM14 CAN BE COMPACTED TO 90% STANDARD PROCTOR OR OTHERWISE MUST BE COMPACTED TO 95% PROCTOR PER NMDOT SPECIFICATION.
- FINAL BACKFILL SHALL BE CLASS I, OR II COMPACTED AS NOTED IN NOTES 3. AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE TYPE II COMPACTED TO 95% STANDARD PROCTOR PER NMDOT SPECIFICATION
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)
- REFER TO NMDOT DETAIL 206-10-1/1 FOR AGENCY SPECIFIC STANDARDS

### UTILITY TRENCH AND BEDDING DETAIL

NTS



NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**  
CONSTRUCTION DETAILS

| LAST DESIGN UPDATE | MO./DAY/YR. |             |
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|                    | MO./DAY/YR. | MO./DAY/YR. |
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PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. - SHEET 7 OF 16



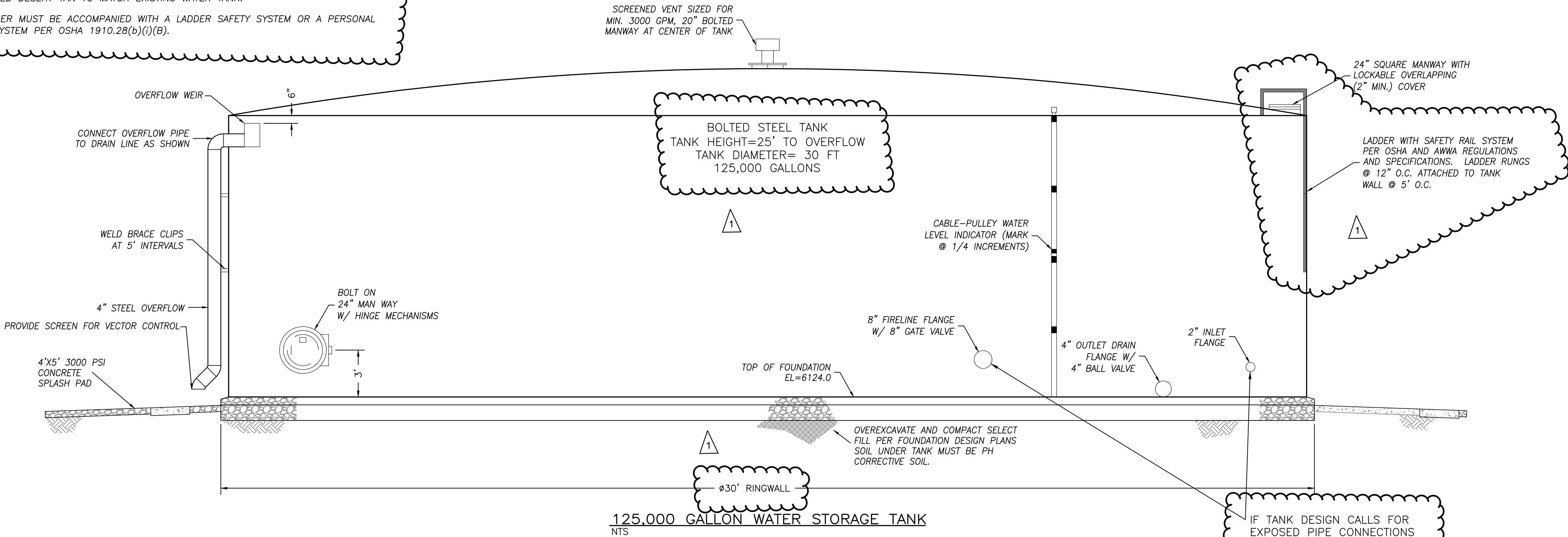
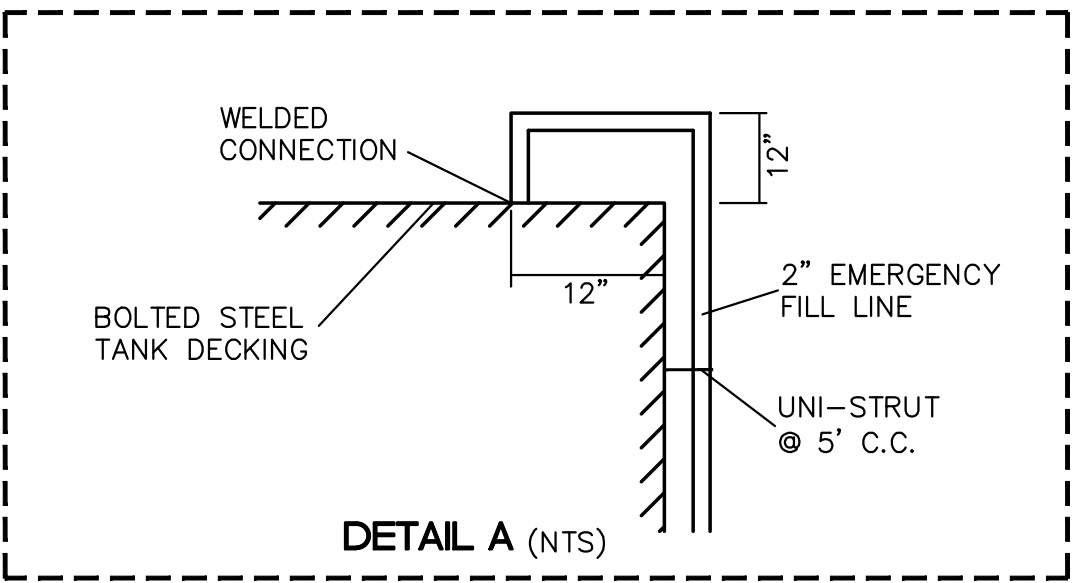




NOTES:

1. TANK ACCESSORIES HAVE BEEN ROTATED INTO THE PLANE OF PROJECTION. SEE UTILITY PLAN FOR ACTUAL ORIENTATION.
2. DETAILS SHOWN REFLECT A BOLTED STEEL TANK TO CONFORM TO ANSI/AWWA SPECIFICATION D-103 W/LATEST REVISIONS. COATING SHOULD BE APPLIED PER SECTION D103-97.
3. TANK WILL BE CONNECTED TO SCADA SYSTEM VIA CONDUIT THAT WILL CONNECT AT THE SAME LOCATION AS THE INLET PIPE. TANK SHOULD BE COMPLIANT WITH LATEST SCADA REQUIREMENTS.
4. MANUFACTURER TO PROVIDE A TANK WITH EQUIVALENT OR GREATER SPECIFICATIONS THAN THOSE INDICATED ON THIS SHEET.
5. TANK TO BE SET UP WITH A MANUAL FILL CONTROL.
6. SOIL UNDER TANK MUST BE PH CORRECTIVE SOIL.

7. TANK INSULATION OR A HEATER MUST BE PART OF THE TANK DESIGN TO PREVENT FREEZING.
8. TANK TO PAINTED DESERT TAN TO MATCH EXISTING WATER TANK.
9. EXTERIOR LADDER MUST BE ACCOMPANIED WITH A LADDER SAFETY SYSTEM OR A PERSONAL FALL ARREST SYSTEM PER OSHA 1910.28(b)(i)(B).



NOTE:  
THIS IS A SCHEMATIC DETAIL. REFER TO TANK DESIGN PLANS FOR ACTUAL LOCATIONS OF OPENINGS.

| AS BUILT INFORMATION |                        |      |      | BENCH MARKS |    |      |      | SURVEY INFORMATION |    |      |      | ENGINEER'S SEAL |    |      |      | DESIGN |    |      |      |
|----------------------|------------------------|------|------|-------------|----|------|------|--------------------|----|------|------|-----------------|----|------|------|--------|----|------|------|
| CONTRACTOR           | WORK                   | DATE | DATE | NO.         | BY | DATE | DATE | NO.                | BY | DATE | DATE | NO.             | BY | DATE | DATE | NO.    | BY | DATE | DATE |
|                      | STAKED BY              |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | INSPECTED BY           |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | FIELD                  |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | ADJUSTED BY            |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | REVISIONS              |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | CORRECTED BY           |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | MICRO-FILM INFORMATION |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | RECORDED BY            |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |
|                      | NO.                    |      |      |             |    |      |      |                    |    |      |      |                 |    |      |      |        |    |      |      |

**TIERRA WEST, LLC**  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS  
WATER STORAGE TANK SPECIFICATIONS**

|                    |             |             |
|--------------------|-------------|-------------|
| LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|                    |             |             |
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PROJECT NO. EMNRD-MMD-2025-01 ZONE MAP NO. - SHEET 9 OF 16

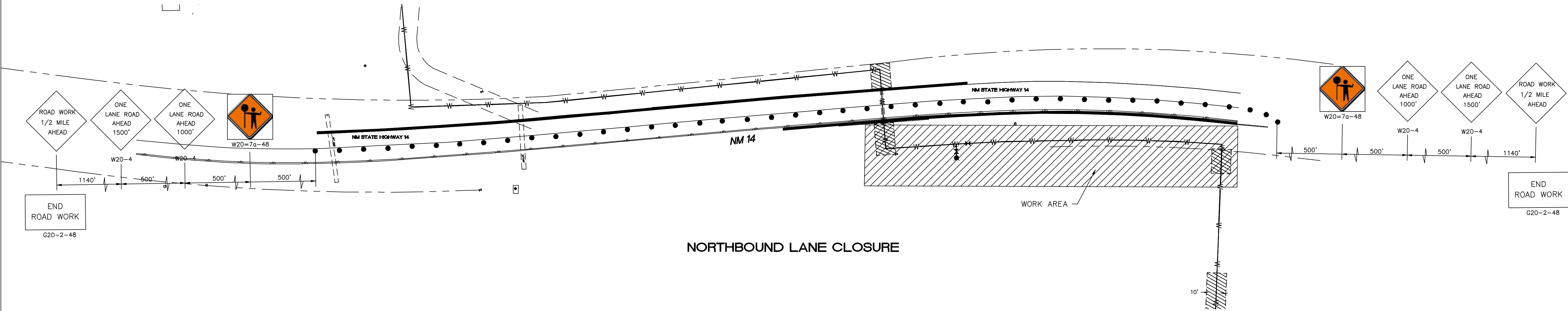


**TIERRA WEST, LLC**  
5571 Midway Park Place NE  
Albuquerque, NM 87109  
Phone: 505-858-3100 Fax: 505-858-1118

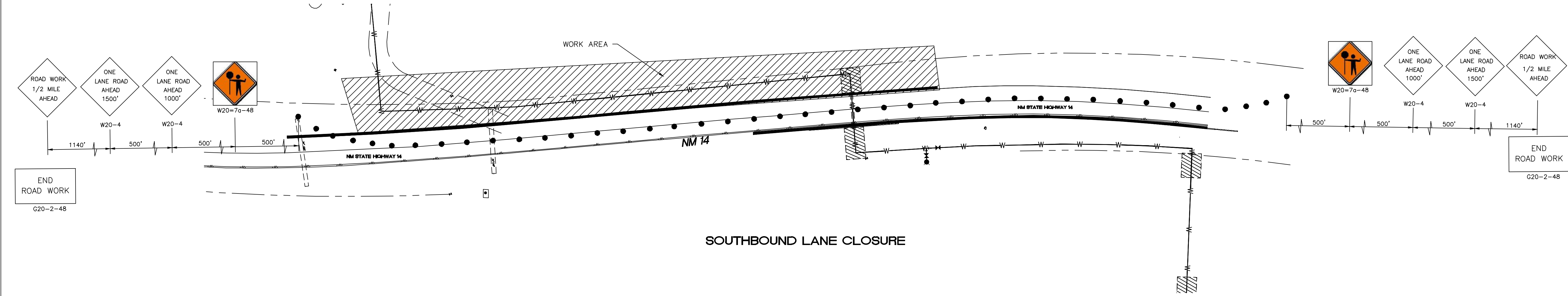


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NORTHBOUND LANE CLOSURE

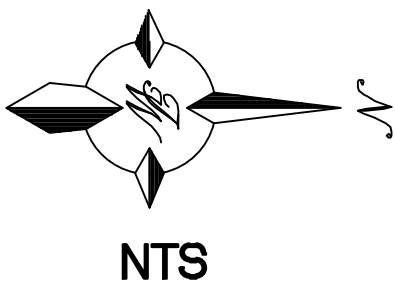


SOUTHBOUND LANE CLOSURE

NOTE: ANY EXISTING SPEED LIMIT SIGNS ARE TO BE COVERED DURING CONSTRUCTION IN THE RIGHT-OF-WAY.

TRAFFIC CONTROL MANAGEMENT

THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AND OBTAIN APPROVAL OF A TRAFFIC CONTROL PERMIT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON THE ROADWAY. ALONG WITH THE PERMIT, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN THAT WILL REFLECT AND COORDINATE THE CONTRACTOR'S PROPOSED CONSTRUCTION PHASING. THESE PLANS SHALL BE PREPARED AND SEALED BY A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER. THE PLANS SHALL BE REVIEWED AND APPROVED BY THE DISTRICT THREE TRAFFIC ENGINEER OR DESIGNEE. THE NMDOT DISTRICT TRAFFIC SECTION RESERVES THE RIGHT TO MAKE ANY CHANGES TO THE TRAFFIC CONTROL PLAN TO ADDRESS SITE SPECIFIC ITEMS THAT WERE NOT SHOWN ON THE PLANS. THE NMDOT ALSO RESERVES THE RIGHT TO ADD TRAFFIC CONTROL DEVICES TO THE APPROVED PLAN IF IT IS DETERMINED BY THE TRAFFIC ENGINEER OR DESIGNEE THAT THE ADDITIONAL DEVICES WOULD BE REQUIRED TO ADDRESS SAFETY CONCERNS WITHIN OR IN ADVANCE OF THE WORK ZONE. THE TRAFFIC CONTROL PERMIT ALONG WITH THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE NMDOT DISTRICT THREE, ISRAEL SUAZO (505-382-8786) AT LEAST 10 WORKING DAYS PRIOR TO CONSTRUCTION. THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED ELECTRONICALLY OR ON 11X17 SHEETS. A COPY OF THE TRAFFIC CONTROL PERMIT (RIGHT-OF-WAY FORMS) MAY BE OBTAINED FROM OUR OFFICE.



**TIERRA WEST, LLC**  
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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS  
TRAFFIC CONTROL PLAN**

| LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|--------------------|-------------|-------------|
|                    |             |             |
|                    |             |             |
|                    |             |             |
|                    |             |             |

PROJECT NO. EMNRD-MMD-2025-01      ZONE MAP NO. —      SHEET **11** OF **16**

| AS BUILT INFORMATION |  | BENCH MARKS |  | SURVEY INFORMATION |  | ENGINEER'S SEAL |  |
|----------------------|--|-------------|--|--------------------|--|-----------------|--|
| CONTRACTOR           |  |             |  | FIELD NOTES        |  | <br>06/26/24    |  |
| WORK                 |  |             |  | NO.                |  |                 |  |
| INSPECTED BY         |  |             |  | BY                 |  |                 |  |
| ACCEPTANCE BY        |  |             |  |                    |  |                 | REMARKS                                    |
| DATE                 |  |             |  |                    |  |                 | DESIGN                                     |
| DATE                 |  |             |  |                    |  |                 | DESIGNED BY: JN                            |
| DATE                 |  |             |  |                    |  |                 | DRAWN BY: RMG                              |
| DATE                 |  |             |  |                    |  |                 | DRAWN NAME: MADRID WATER TANK IMPROVEMENTS |
| DATE                 |  |             |  |                    |  |                 | CHECKED BY: RRB                            |
| DATE                 |  |             |  |                    |  |                 |  |
| DATE                 |  |             |  |                    |  |                 |  |



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| TAPER REQUIREMENTS      |                        |             |             |   |  |
|-------------------------|------------------------|-------------|-------------|---|--|
| SPEED<br>LIMIT<br>(MPH) | TAPER LENGTH<br>(FEET) |             |             | MAXIMUM<br>DISTANCE<br>BETWEEN<br>DEVICES<br>(FEET) | MINIMUM<br>NUMBER<br>OF<br>DEVICES<br>REQUIRED |
|                         | 10'<br>LANE            | 11'<br>LANE | 12'<br>LANE |   |  |
| 25                      | 104                    | 115         | 125         | 25  | 6  |
| 30                      | 150                    | 165         | 185         | 30  | 7  |
| 35                      | 204                    | 225         | 245         | 35  | 8  |
| 40                      | 267                    | 293         | 320         | 40  | 9  |
| 45                      | 450                    | 495         | 540         | 45  | 13   |
| 50                      | 500                    | 550         | 600         | 50  | 13   |
| 55                      | 550                    | 605         | 660         | 55  | 13   |

RECOMMENDED SIGN SPACING (D) FOR  
ADVANCE WARNING SIGN SERIES

| SPEED<br>MILES<br>PER HOUR | MINIMUM DISTANCE IN FEET<br>BETWEEN<br>SIGNS | FROM LAST<br>SIGN TO TAPER |
|----------------------------|--|----------------------------|
| 0-20                       | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |
| 25-30                      | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |
| 30-35                      | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |
| 35-40                      | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |
| 40-45                      | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |
| 50-60                      | 10 X SPEED LIMIT                             | 10 X SPEED LIMIT           |

LEGEND



WORK AREA



TRAFFIC SIGN & QUANTITY (SEE THIS SHEET FOR DESIGNATION)



BARRICADE - TYPE I, TYPE II, OR BARREL



BARRICADE - TYPE III



VERTICAL PANEL



WARNING SIGN



DISTANCE BETWEEN SIGNS-A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET



FLAGMAN POSITION



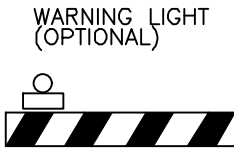
SPACING BETWEEN BARRICADES-A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH - ON CHART

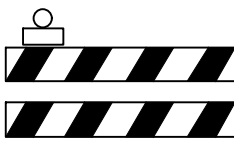
TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

NOTES

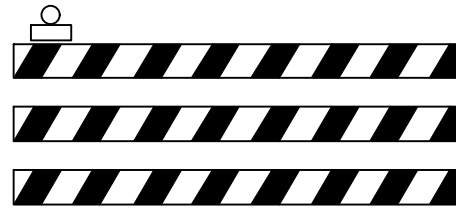
1. ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.
2. TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS.
3. THIS IS A STANDARD TRAFFIC CONTROL PLAN AND SOME TRAFFIC CONTROL SITUATIONS MAY BE SHOWN THAT ARE NOT REQUIRED ON THIS PARTICULAR PROJECT.



TYPE I BARRICADE



TYPE II BARRICADE



TYPE III BARRICADE

NOTE: FLASHING OR STEADY BURN WARNING LIGHTS SHOULD BE USED ON BARRICADES, PANELS, AND DRUMS AS NEEDED.

TAPER CRITERIA

TYPE OF TAPER

UPSTREAM TAPER:  
MERGING TAPER:  
SHIFTING TAPER:  
SHOULDER TAPER:  
TWO-WAY TRAFFIC TAPER:  
DOWNSTREAM TAPER:

TAPER LENGTH

SEE CHART  
L MINIMUM  
1/2 L MINIMUM  
1/2 L MINIMUM  
100 FEET MAXIMUM  
100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT

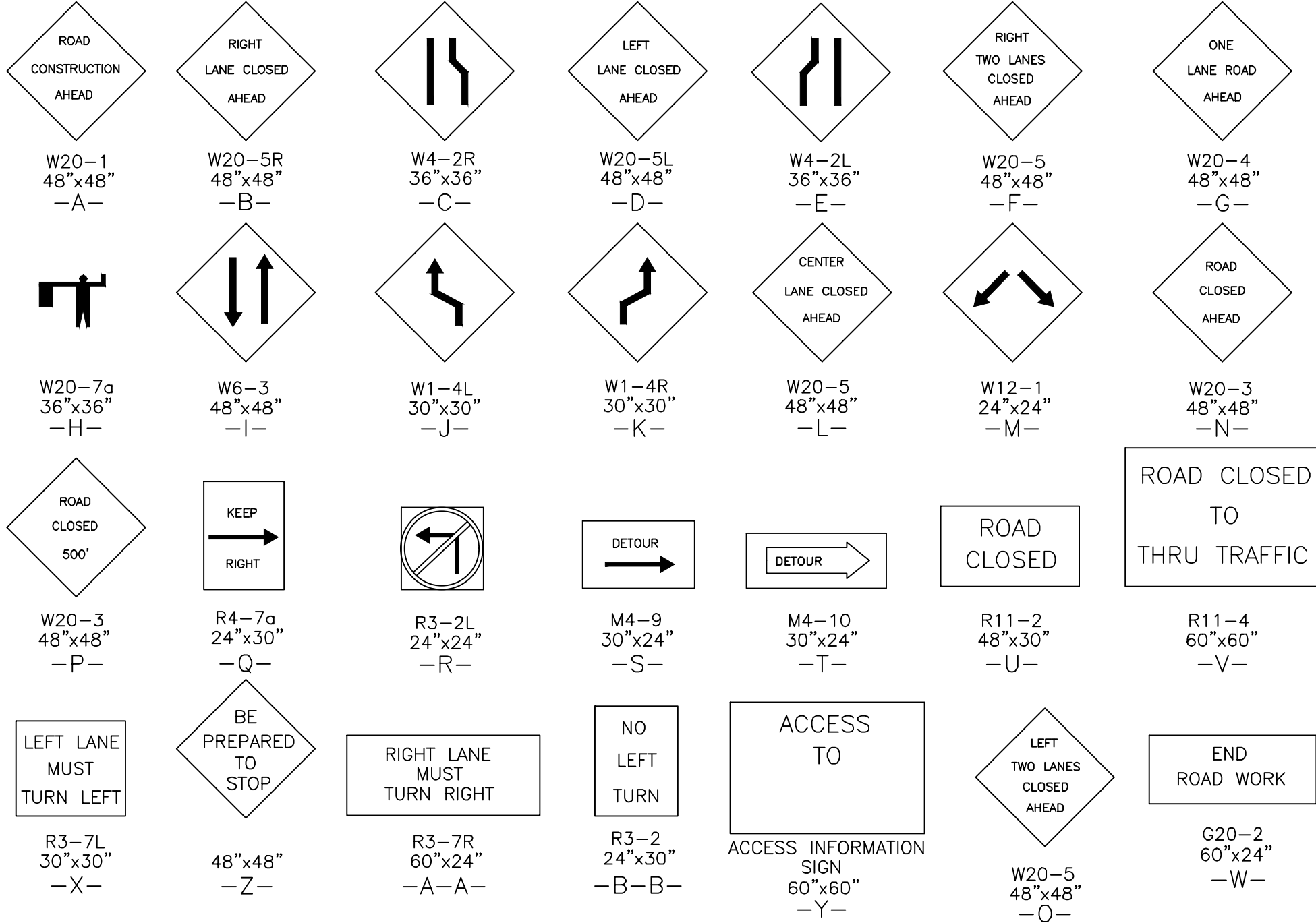
45 MPH OR LESS:

$$L = \frac{WS^2}{60}$$

45 MPH OR GRATER:

$$L = W \times S$$

L = TAPER LENGTH  
W = WIDTH OF OFFSET IN FEET  
S = POSTED SPEED OR OFF-PEAK  
85-PERCENTILE SPEED IN MPH



NOTE: ARROW DIRECTION TO BE ADJUSTED AS NEEDED.

AS BUILT INFORMATION

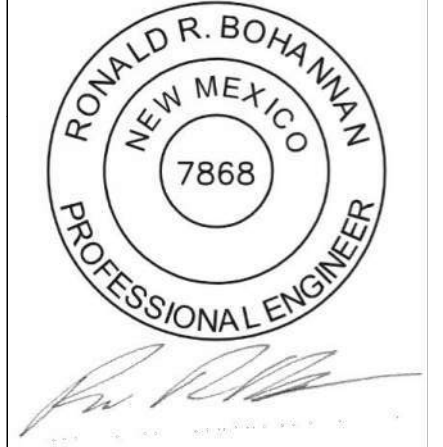
|                        |      |
|------------------------|------|
| CONTRACTOR             | DATE |
| WORK                   | DATE |
| INSPECTOR'S            | DATE |
| ACCEPTANCE BY          | DATE |
| VEGETATION BY          | DATE |
| DRAWINGS               | DATE |
| CORRECTED BY           | DATE |
| MICRO-FILM INFORMATION |      |
| RECORDED BY            | DATE |
| NO.                    |      |

BENCH MARKS

SURVEY INFORMATION

| FIELD NOTES |      |
|-------------|------|
| BY          | DATE |
| NO.         |      |

ENGINEER'S SEAL



06/26/24

BY

REMARKS

NO. DATE

DESIGNED BY: JN

DATE: JUNE 2024

DRAWN BY: RMG

DATE: JUNE 2024

DRAWN NAME: MADRID WATER TANK IMPROVEMENTS

JOB NO.: 2023094

CHECKED BY: RRB

DATE: JUNE 2024



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ALBUQUERQUE, NEW MEXICO 87109  
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NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS  
TRAFFIC CONTROL NOTES

LAST DESIGN UPDATE

MO./DAY/YR.

MO./DAY/YR.

PROJECT NO.  
EMNRD-MMD-2025-01

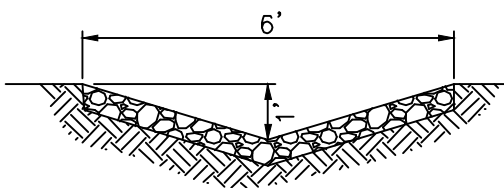
ZONE MAP NO.  
-

SHEET  
12

OF  
16



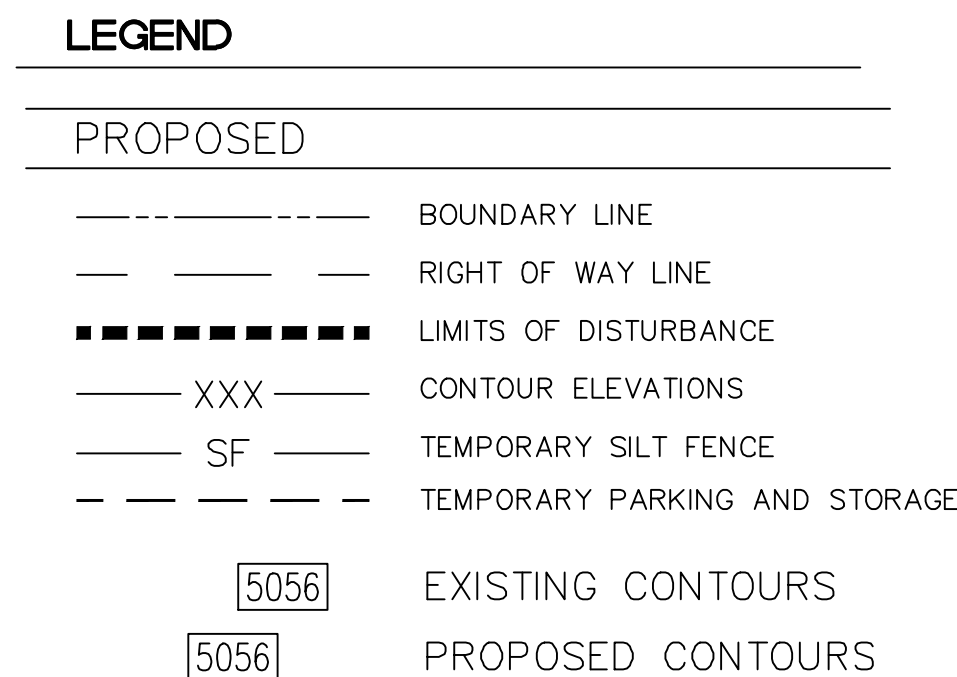




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Fax: 505-858-1118

SHEET 13 OF 16





|  |    |   |
|--|----|---|
|  | CE | TEMPORARY STONE CONSTRUCTION EXIT             |
|  | SF | TEMPORARY SILT FENCE                          |
|  | ST | TEMPORARY SEDIMENT TRAP W/ EMERGENCY OVERFLOW |
|  | IP | INLET PROTECTION                              |
|  | SS | SWPPP SIGN                                    |
|  | W  | WATTLES                                       |

---

|  |               |  |
|--|---------------|--|
|  | EROSION NOTES |  |
|--|---------------|--|

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|  |     |                               |
|--|-----|-------------------------------|
|  | TPS | TEMPORARY PARKING AND STORAGE |
|--|-----|-------------------------------|

NATURE OF CONSTRUCTION ACTIVITIES: ROUGH/FINE GRADING OF THE SITE,  
INSTALLATION OF PRIVATE UTILITIES (WATER, SANITARY, & STORM), PAVING OF  
ONSITE PARKING, CURB, AND SIDEWALKS, AND CONSTRUCTION OF BUILDING.

PROPERTY SIZE: 9.0 ACRES

DISTURBED AREA SIZE: 10.0 ACRES

DESCRIPTION OF CONSTRUCTION SUPPORT ACTIVITIES: EQUIPMENT STAGING  
YARD, MATERIALS STORAGE AREA, EXCAVATED MATERIALS DISPOSAL/STORAGE  
AREAS.

MAXIMUM DISTURBED AREA SIZE: 10.0 ACRES

SEDIMENT REMOVAL NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

BMP MAINTENANCE NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

INSPECTIONS NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

**LIST OF OPERATORS:**

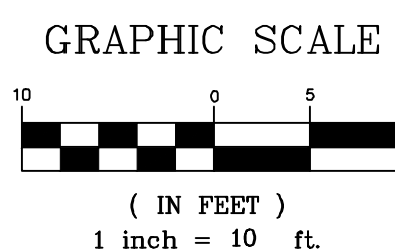
OPERATOR 1 NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

OPERATOR 2 NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

OPERATOR 3 NAME: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

THE UNDISTURBED AND PRE-CONSTRUCTION GROUND COVER CONSISTS OF UNCOMPACTED SOIL WITH NATIVE GRASSES, WEEDS, AND SHRUBS WITH MINIMAL DISTURBANCES TO GRADING.

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



THE PURPOSE OF THIS SWPPP IS TO APPLY SWPPP CONTROLS THAT ARE REQUIRED DURING DEVELOPMENT OF SITE.

[illegible]



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ESC PLAN STANDARD NOTES:

1. ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH:

a. THE CITY ORDINANCE § 14-5-2-11, THE ESC ORDINANCE,

b. THE EPA'S 2022 CONSTRUCTION GENERAL PERMIT (CGP), AND

c. THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL.
2. ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTHWORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMPS AND PRIOR TO BEGINNING CONSTRUCTION.
3. SELF-INSPECTIONS - IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), "AT A MINIMUM A ROUTINE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
4. CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
5. FINAL STABILIZATION AND NOTICE OF TERMINATION (NOT) - IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), SELF-INSPECTIONS MUST CONTINUE UNTIL THE SITE IS "DETERMINED AS STABILIZED BY THE CITY." THE PROPERTY OWNER/OPERATOR IS RESPONSIBLE FOR DETERMINING WHEN THE "CONDITIONS FOR TERMINATING CGP COVERAGE" PER CGP PART 8.2 ARE SATISFIED AND THEN FOR FILING THEIR NOTICE OF TERMINATION (NOT) WITH THE EPA. EACH OPERATOR MAY TERMINATE CGP COVERAGE ONLY IF ONE OR MORE OF THE CONDITIONS IN PART 8.2.1, 8.2.2, OR 8.2.3 HAS OCCURRED. AFTER FILING THE NOT WITH THE EPA, THE PROPERTY OWNER IS RESPONSIBLE FOR REQUESTING A DETERMINATION OF STABILIZATION FROM THE CITY.
6. WHEN DOING WORK IN THE CITY RIGHT-OF-WAY (E.G. SIDEWALK, DRIVE PADS, UTILITIES, ETC.) PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEEPED DAILY OR PRIOR TO A RAIN EVENT OR CONTRACTOR INDUCED WATER EVENT (E.G. CURB CUT OR WATER TEST).
7. WHEN INSTALLING UTILITIES BEHIND THE CURB, THE EXCAVATED DIRT SHOULD NOT BE PLACED IN THE STREET.
8. WHEN CUTTING THE STREET FOR UTILITIES THE DIRT SHALL BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEEPED AFTER THE WORK IS COMPLETE. A WATTLE OR MULCH SOCK MAY BE PLACED AT THE TOE OF THE EXCAVATED DIRT PILE IF SITE CONSTRAINTS DO NOT ALLOW PLACING THE EXCAVATED DIRT ON THE UPHILL SIDE OF THE STREET CUT.
9. ESC PLANS MUST SHOW LONGITUDINAL STREET SLOPE AND STREET NAMES. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES/MULCH SOCKS OR J-HOOD SILT FENCE SHALL BE SHOWN IN THE FRONT YARD SWALE OR ON THE SIDE OF THE STREET.

GENERAL EROSION NOTES:

- A. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SWPPP BOOK, THE 2017 GENERAL CONSTRUCTION PERMIT, THIS DRAWING ("TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN"), STANDARD DETAILS ("TEMPORARY EROSION CONTROL AND SEDIMENTATION DETAILS"), EPA NOTICE OF INTENT PERMIT AND ALL SUBSEQUENT REPORTS, CORRECTIVE ACTIONS AND EROSION CONTROL RELATED DOCUMENTS.
- B. ALL OPERATORS AS DESIGNATED, CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE ACTIVITIES RELATED TO STORM WATER POLLUTION PREVENTION SHALL REVIEW A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE 2017 CONSTRUCTION GENERAL PERMIT, THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), THE CLEAN WATER ACT OF 1972 AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. THE OPERATOR IN CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS THAT MAY OCCUR AT NO ADDITIONAL COST TO PROJECT OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO ALL FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. OPERATOR WITH CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, LOCAL JURISDICTIONAL AUTHORITY OR SWPPP COMPLIANCE INSPECTOR.
- E. THE TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN IS A WORKING DOCUMENT AND IS REQUIRED TO BE UPDATED WITHIN 24 HOURS OF ANY CHANGES WHEN BMP'S ARE REPAIRED, RELOCATED OR REMOVED BY NOTING ON THE PLAN THE AREAS AND DATES OF THE REPAIRS, RELOCATIONS OR REMOVALS. AN ACTIVE COPY OF THE PLAN SHALL BE POSTED IN THE JOB SITE TRAILER ONSITE AND MUST BE MAINTAINED CURRENT AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING AND EARTH DISTURBANCE TO THE MAXIMUM ACREAGE AS REQUIRED BY THE EPA CONSTRUCTION GENERAL PERMIT.
- G. CONTRACTOR SHALL DENOTE ON THIS PLAN, THE LOCATION OF TEMPORARY PARKING, STORAGE, PORTABLE SANITARY FACILITIES, OFFICE TRAILERS, AND ALL SUPPORT AREAS. RELOCATIONS OF EACH SHALL ALSO BE DOCUMENTED AS THEY OCCUR.
- H. ALL WASH OUT WATER USED FOR CONCRETE, MASONRY, PAINT AND OTHER MATERIALS SHALL HAVE ADEQUATE SIGNAGE WITH PROPER CONTAINMENT AND DISPOSED OF PROPERLY WHEN CAPACITY REACHES 50% OR PER VENDOR RECOMMENDATIONS. VENDORS AND TRADESMEN SHALL BE INFORMED OF THE REQUIREMENTS TO USE THE WASH OUT.
- I. A SPILL KIT SHALL BE READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. A DISCHARGE OF ANY MATERIAL IN A QUANTITY THAT MAY WITHIN REASONABLE PROBABILITY CAUSE, INJURE OR BE DETRIMENTAL TO HUMAN HEALTH, ANIMAL OR PLANT LIFE, OR PROPERTY; OR INTERFERE WITH THE PUBLIC WELFARE MUST BE REPORTED TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT HOTLINE AT (505) 827-9329 FOR EMERGENCIES OR FOR NON EMERGENCIES AT (866)-428-6535.
- J. IF UNSURE IF THE SPILL IS OF A SIGNIFICANT QUANTITY, THE SPILL SHOULD BE REPORTED TO THE HOTLINE AND INFORMATION PROVIDED WITH DETAILS OF THE SPILL FOR FURTHER ACTIONS.
- K. DUST DURING CONSTRUCTION OPERATIONS SHALL BE FREQUENTLY CONTROLLED BY WATER SUPPRESSION METHODS ONLY. EARTH DISTURBING OPERATIONS SHALL CEASE IF HIGH WINDS ABOVE 35 MPH ARE PRESENT. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS IS STRICTLY PROHIBITED. OTHER CHEMICALS USED FOR DUST SUPPRESSION MUST BE APPROVED BY THE EPA PRIOR TO THEIR USE.
- L. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED, COVERED, LEAK PROOF CONTAINERS. CONTAINERS SHALL BE DISPOSED OF PROPERLY WHEN CAPACITY IS REACHED. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER.
- M. ALL STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED PER THE SEQUENCE OF CONSTRUCTION AS NOTED.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS BEEN TEMPORARILY SUSPENDED FOR 14 DAYS, SHALL HAVE TEMPORARILY STABILIZATION IN PLACE NO LATER THAN 14 DAYS FROM THE LAST DATE OF CONSTRUCTION ACTIVITY OCCURRING THESE AREAS.
- O. TEMPORARY COVER AND FINAL STABILIZATION (PART 2.2.12 (a) AND (b) RESPECTIVELY ARE TO BE PER COA STD SPEC 1012 NATIVE SEED WITH HYDROMULCH AND AGGREGATE MULCH (2-4") RESPECTIVELY.
- P. IF THE ACTION OF VEHICLES OR EQUIPMENTS TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD FROM LEAVING THE SITE, THEN THE LENGTH OF THE EXIT SHOULD BE EXTENDED TO PROVIDE ADDITIONAL TIRE ROTATIONS, LARGER ROCK MAY BE USED TO CREATE A SUFFICIENT JARRING MOTION OR INSTALL A TIRE WASH OFF WITH A SEDIMENT TRAP BEFORE LEAVING THE SITE.
- Q. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- R. THE OPERATOR IN CHARGE OF THE DAILY SITES ACTIVITIES WILL BE RESPONSIBLE FOR REMOVING SEDIMENT OR SOILS ACCUMULATING MORE THAN 50% OF THE DESIGN CAPACITY IN DETENTION PONDS, SILT FENCING OR OTHER SIMILAR EROSION CONTROLS.
- S. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, AS REQUIRED PER THE CONSTRUCTION GENERAL PERMIT. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE ESC PLAN AND PERMITTED IN ACCORDANCE WITH LOCAL AUTHORITIES HAVING JURISDICTIONAL CONTROL.
- T. SLOPES SHALL BE LEFT WITH CROSS SLOPE GRADING PATTERN AND IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION RILLS. EXCESSIVE SLOPES MAY REQUIRE ADDITIONAL INDUSTRY STANDARD CONTROLS TO PREVENT EROSION.
- U. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE OPERATOR IN CONTROL OF THE SITE'S DAILY ACTIVITIES SHALL BE RESPONSIBLE FOR ADJUSTING AND MAINTAINING ALL EROSION CONTROL TO PREVENT EROSION.
- V. ALL DISTURBED AREAS SHALL BE SUPPRESSED BY WATER AND ALL CONTROLS LEFT IN GOOD WORKING CONDITION AT THE END OF EACH WORKING DAY. THIS INCLUDES REPLACEMENT OF SILT FENCING AND/OR OTHER SURFACE CONTROLS, TRACK OUT SWEEP CLEAN, BACKFILL OF OPEN TRENCHES AND ANY OTHER EROSION CONTROLS.

BMP MAINTENANCE

ALL MEASURES STATED IN THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR UNTIL FINAL STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF THE WORKDAY BY A QUALIFIED MEMBER OF THE SWPPP COMPLIANCE TEAM. THE OPERATOR WITH CONTROL OF THE SITES DAILY ACTIVITIES IS RESPONSIBLE TO MAINTAIN, CLEAN AND REPAIR EROSION CONTROLS IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED, IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION. SEDIMENT SHALL BE REMOVED TO INSURE PROPER FLOWS. INLET PROTECTION TYPES MAY NEED TO BE MODIFIED DURING THE CONSTRUCTION PROGRESS.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.
3. SILT FENCES, WADDLES OR OTHER CONTROLS SHALL BE REPLACED OR REPAIRED TO PROPER FUNCTIONING CONDITION, IF DAMAGED. SEDIMENT AND SOIL SHALL BE REMOVED WHEN REACHES ONE-HALF THE HEIGHT OF THE CONTROL.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING, EXTENDING OR OTHER MODIFICATIONS TO THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. SITE TRAFFIC SHOULD BE LIMITED TO THE CONTROLLED EXITS ONLY.
5. SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
6. REFERENCE THE SWPPP BOOK FOR ALL EROSION CONTROL MAINTENANCE PROCEDURES AND FREQUENCIES. CONSULT THE SWPPP PREPARER WITH ANY QUESTIONS REGARDING THIS SWPPP AND ITS REQUIREMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT FROM THE LOCAL JURISDICTIONAL AUTHORITY PRIOR TO BEGINNING WORK.
2. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR MAINTAINING RUN-OFF and RUN ON OF SITE DURING CONSTRUCTION.
3. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL EXPOSED EARTH SURFACES MUST HAVE APPROPRIATE CONTROLS TO PROTECT FROM WIND AND WATER EROSION DURING ALL PHASES OF THE PROJECT.
5. STOCKPILES INACTIVE FOR 14 DAYS ARE REQUIRED TO HAVE TEMPORARY STABILIZATION OR APPROPRIATE COVER TO CONTROL WIND AND WATER EROSION.
6. THE OPERATOR WITH CONTROL OF THE DAILY SITES ACTIVITIES IS REQUIRED TO MAINTAIN ALL SITE BMP'S IN GOOD CONDITION FOR THE DURATION OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS ACCEPTED BY THE EPA.
7. IF SITE EARTH DISTURBANCES EXCEED 5 ACRES AT ANY ONE TIME, TEMPORARY AND/OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE. SITE EARTH DISTURBANCES OF LESS THAN 5 ACRES, HAVE 14 DAYS TO PROVIDE TEMPORARY OR PERMANENT STABILIZATION WHEN AREA BECOMES INACTIVE OR EARTH DISTURBING ACTIVITIES ARE COMPLETE.

GENERAL NOTES:

1. PROVIDE POSITIVE DRAINAGE TOWARDS SEDIMENT TRAPS DURING GRADING OPERATIONS.
2. INSTALL WATTLES ALONG LINEAR CONSTRUCTION OF SD
3. PROVIDE POSITIVE DRAINAGE TO TEMPORARY SEDIMENT BASIN DURING ALL GRADING ACTIVITIES
4. OFFSITE GRADING AND ROADWAY IMPROVEMENTS ARE TO BE COMPLETED BY OTHERS. COORDINATION OF OFFSITE BMP'S WITH PROPOSED ONSITE BMP'S SHALL BE REQUIRED BY THE CONTRACTOR(S)



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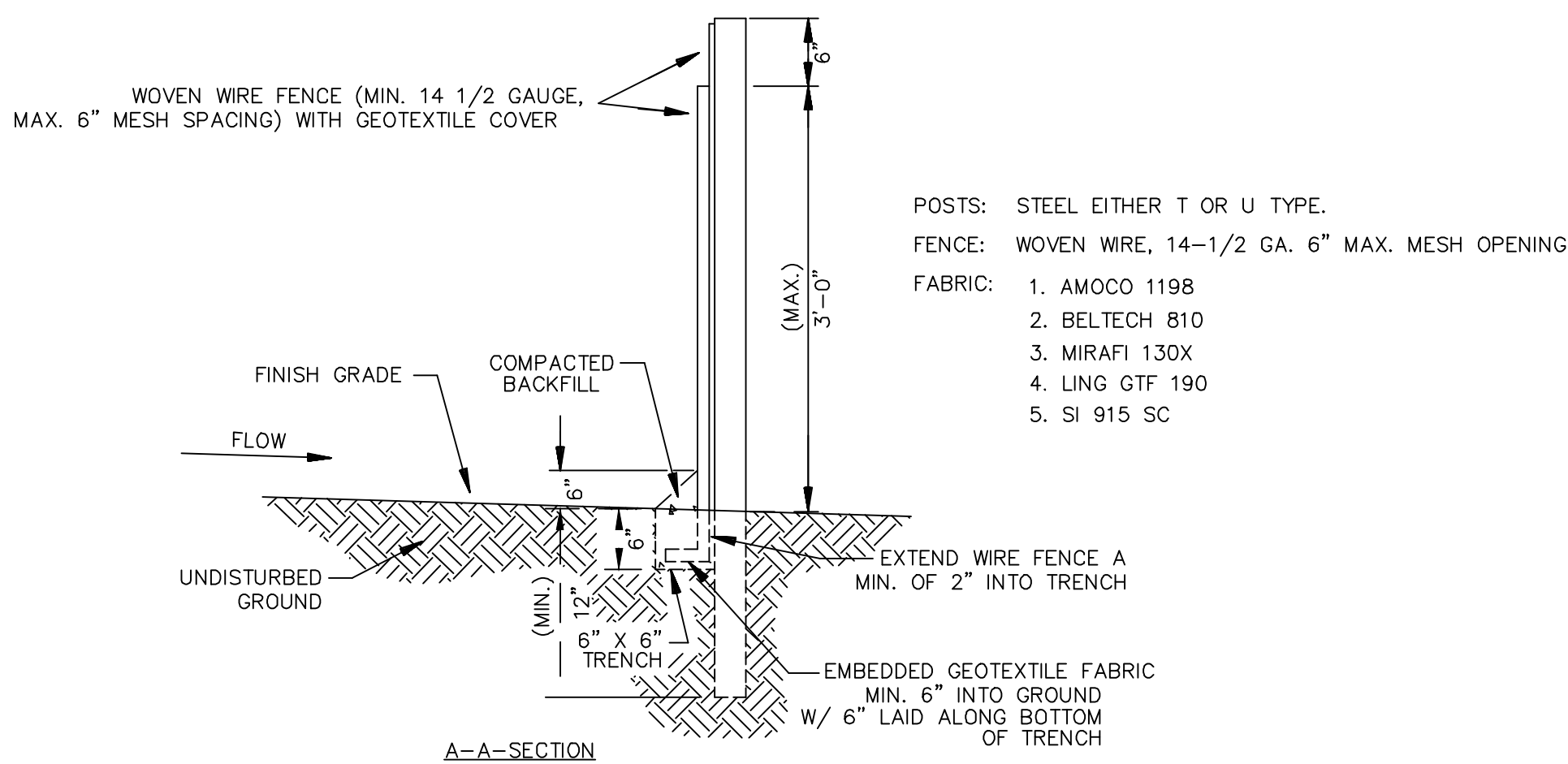
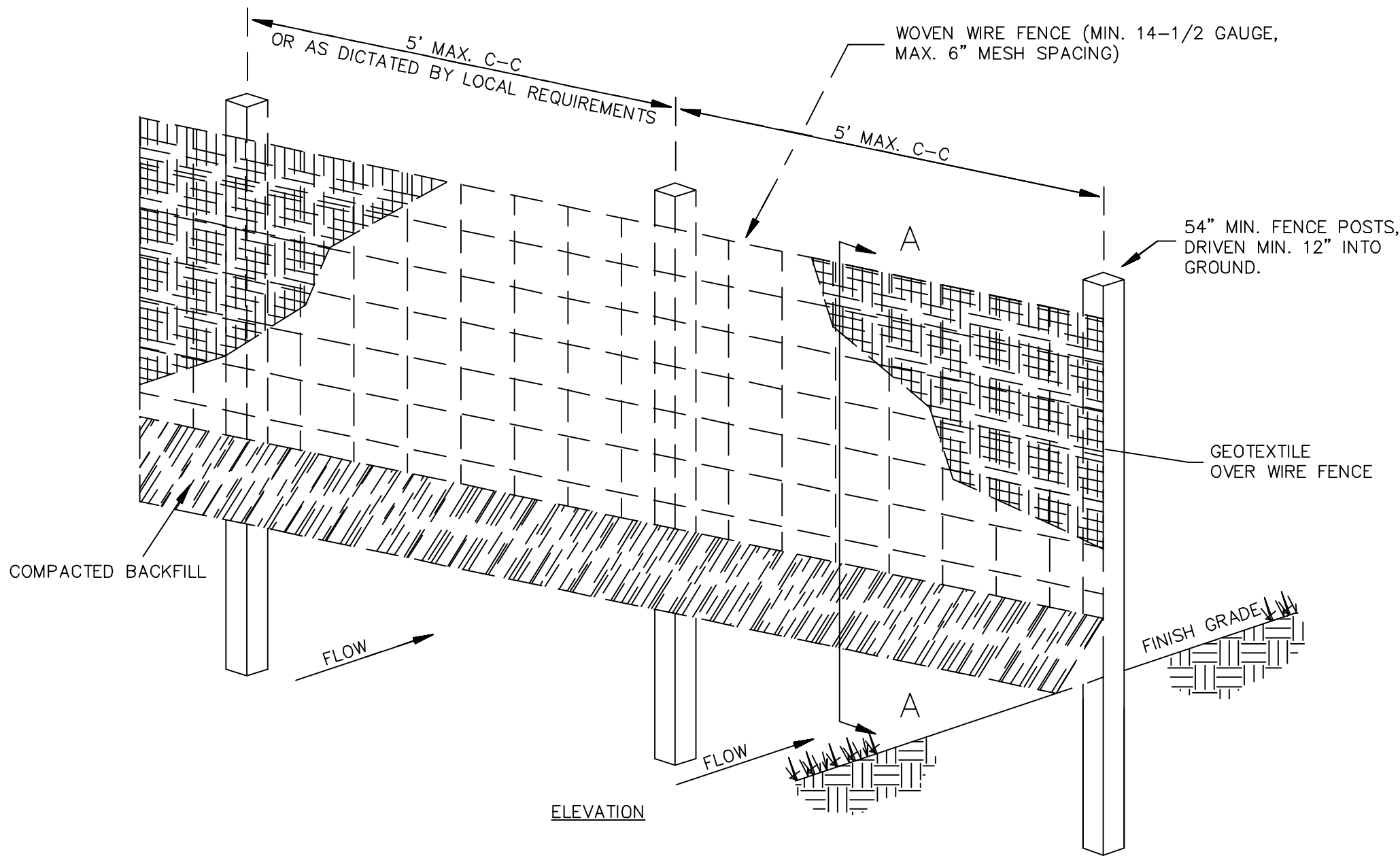
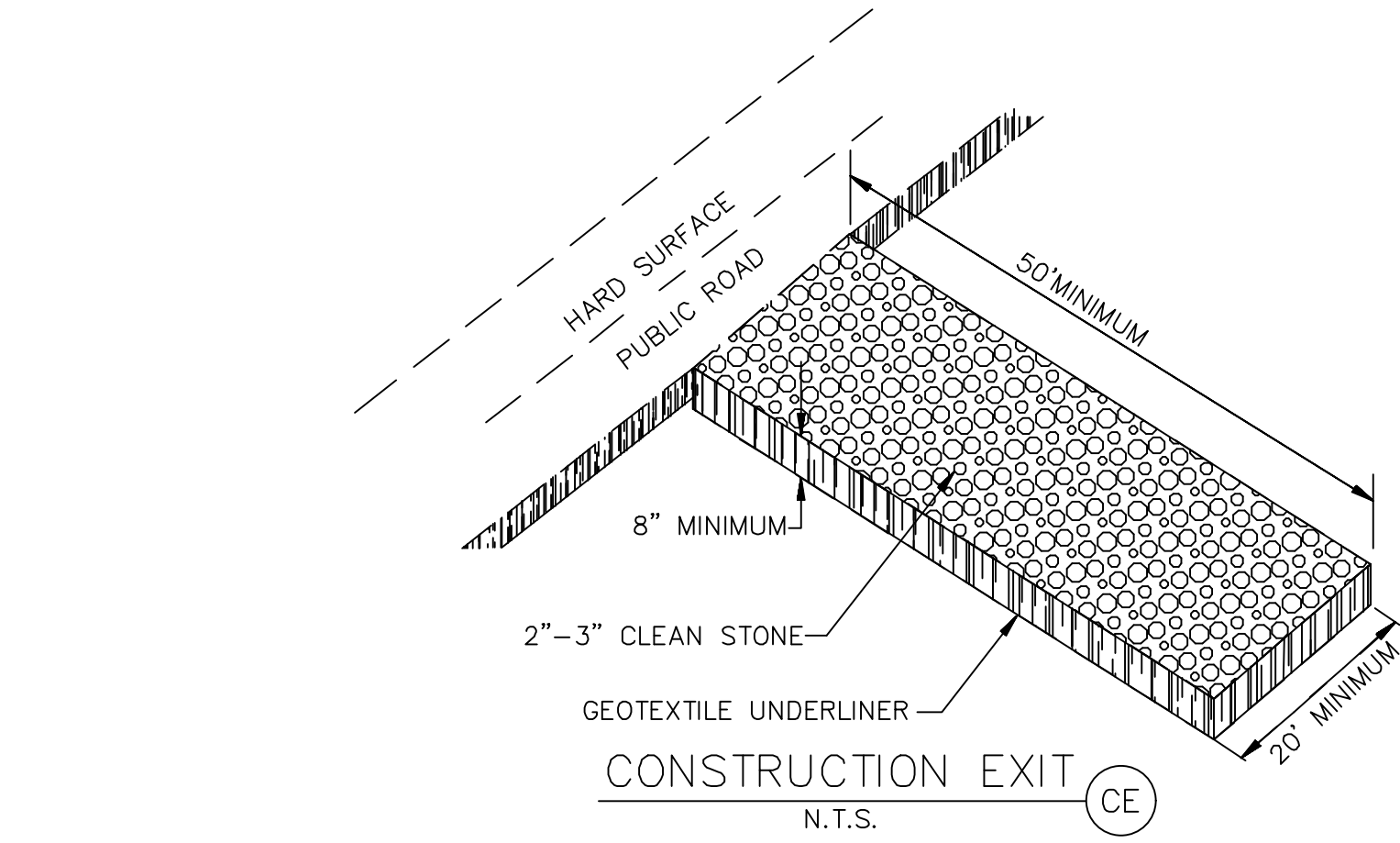
NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS**  
**EROSION CONTROL NOTES**

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| LAST DESIGN UPDATE | MO./DAY/YR.  | MO./DAY/YR. |
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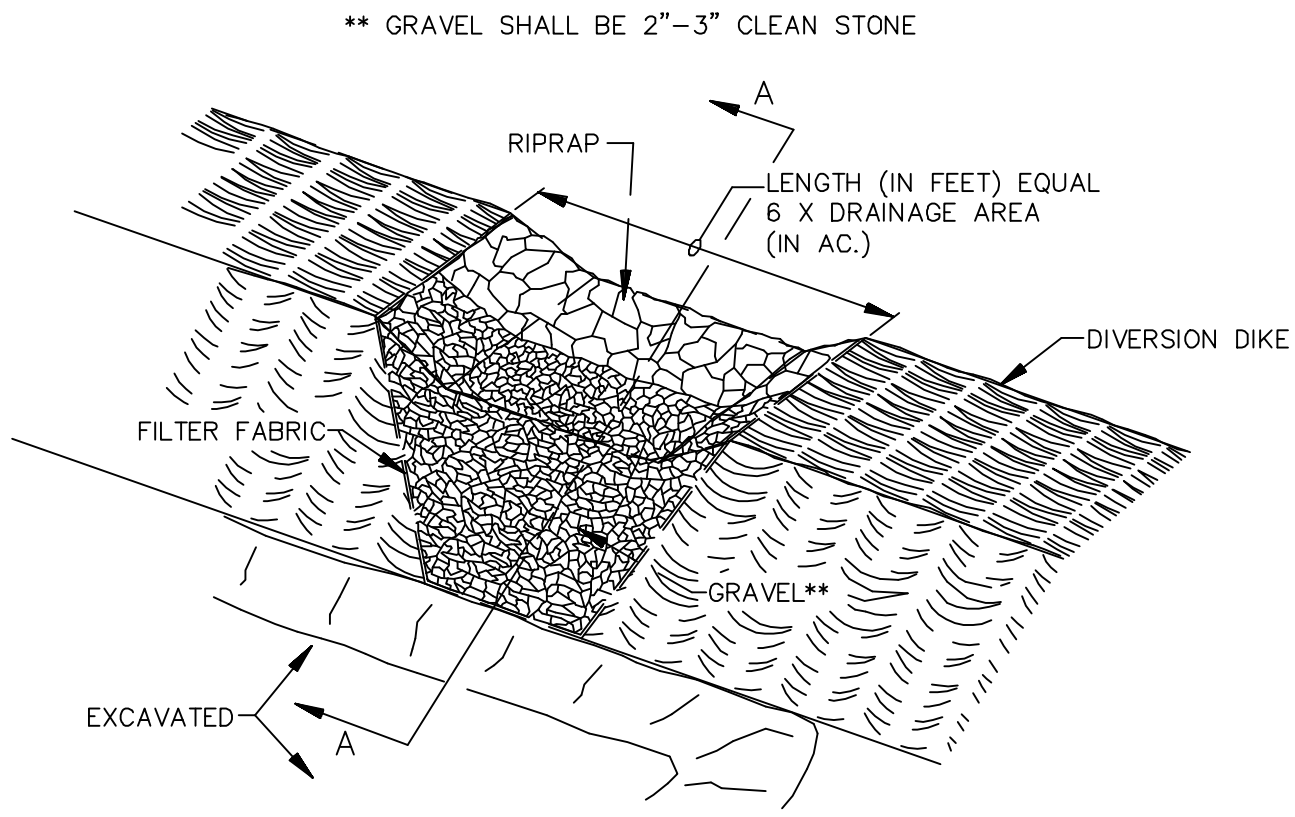
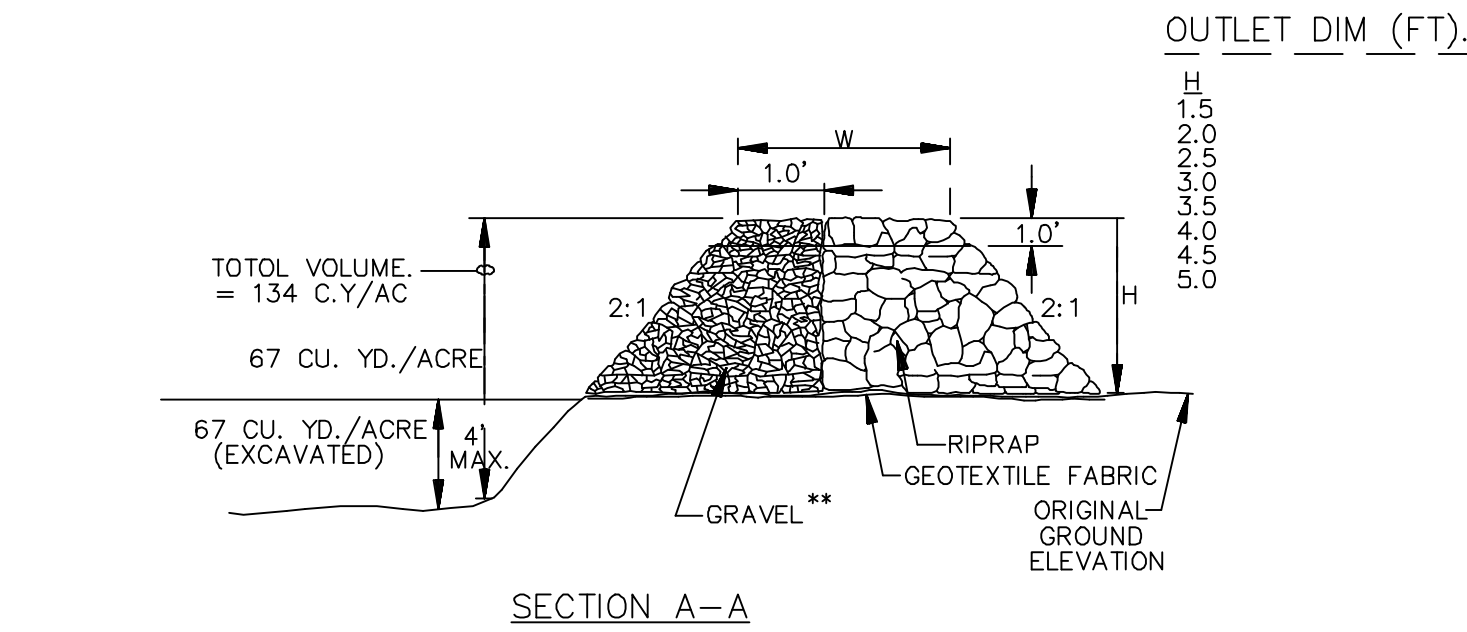


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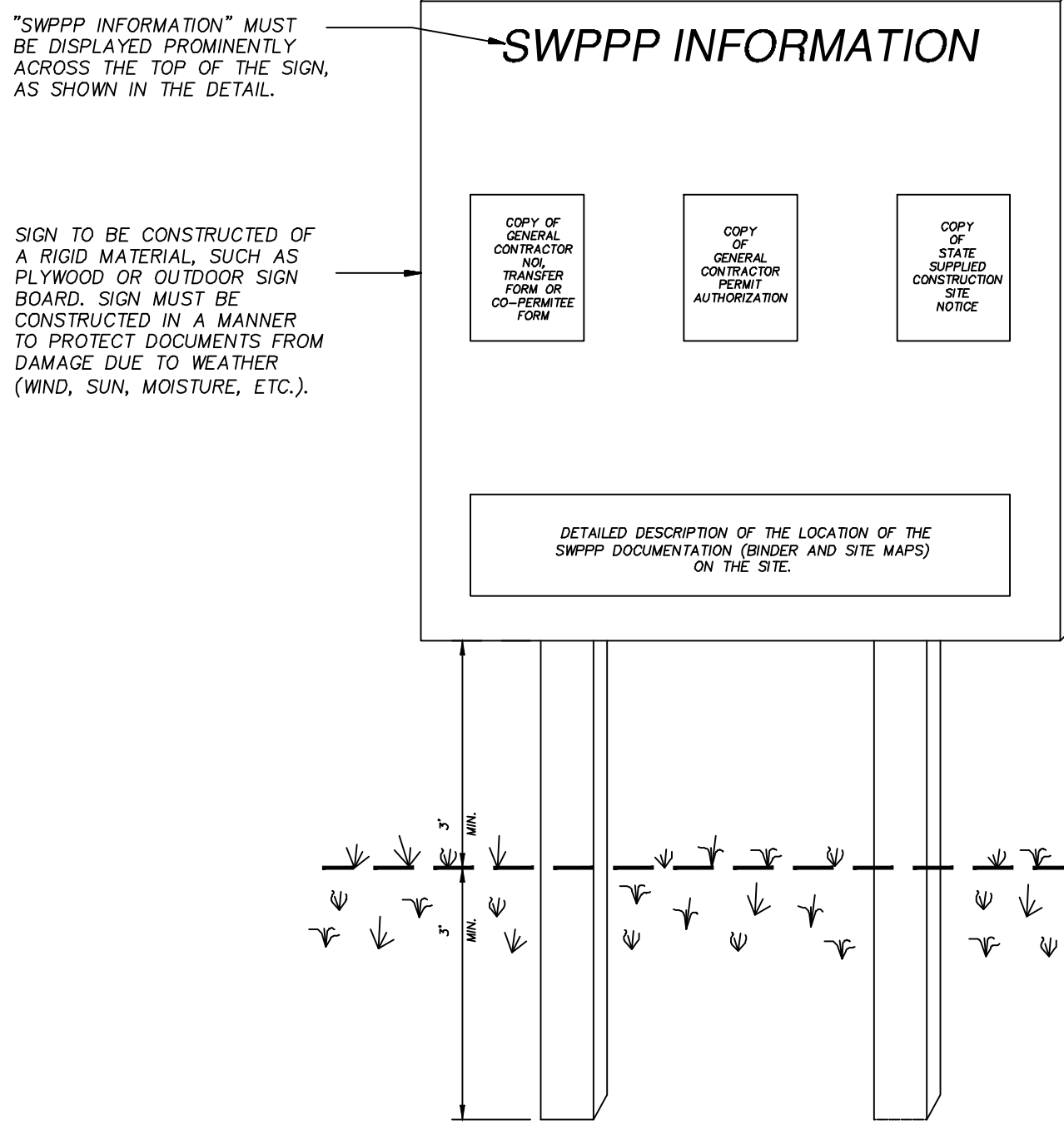


- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
- GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

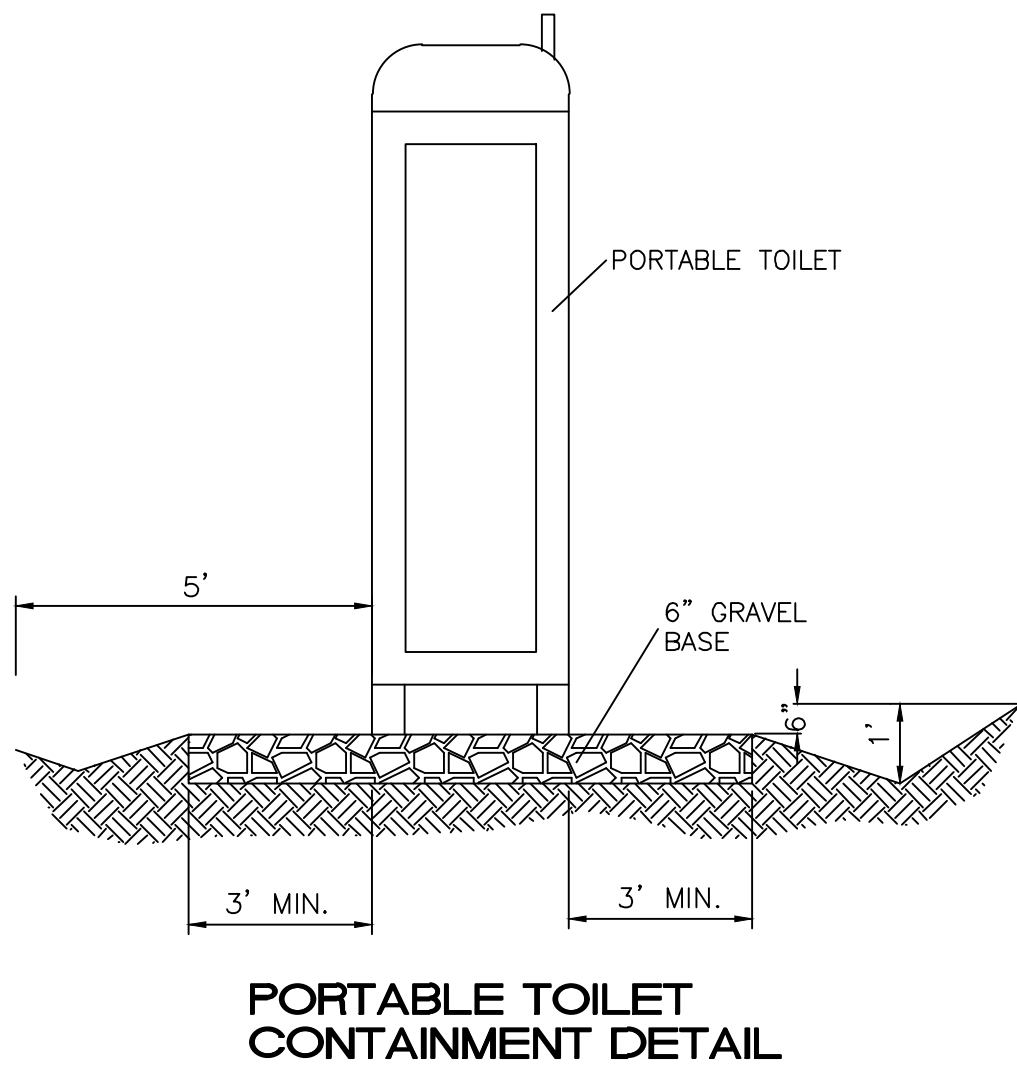


OUTLET (PERSPECTIVE) TEMPORARY SEDIMENT TRAP



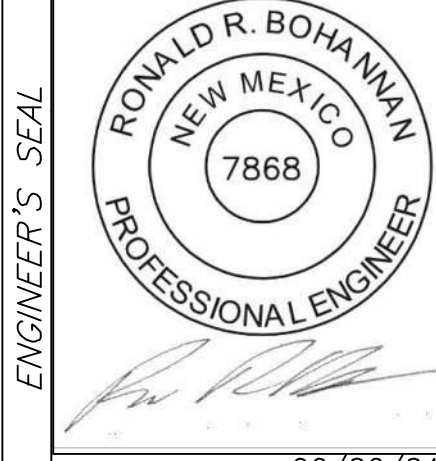
- NOTES:
- THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
  - ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
  - CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
  - SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
  - CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN



PORTABLE TOILET CONTAINMENT DETAIL

| AS BUILT INFORMATION   |                 |                 |                 | BENCH MARKS            |                 |                 |                 | SURVEY INFORMATION     |    |      |     | ENGINEER'S SEAL        |     |     |     |
|------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|------------------------|----|------|-----|------------------------|-----|-----|-----|
| CONTRACTOR             | WORKED BY       | DATE            | INSPECTOR'S     | DATE                   | INSPECTOR'S     | DATE            | INSPECTOR'S     | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |
| ACCEPTANCE BY          | ACCEPTANCE BY   | ACCEPTANCE BY   | ACCEPTANCE BY   | ACCEPTANCE BY          | ACCEPTANCE BY   | ACCEPTANCE BY   | ACCEPTANCE BY   | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |
| VERIFICATION BY        | VERIFICATION BY | VERIFICATION BY | VERIFICATION BY | VERIFICATION BY        | VERIFICATION BY | VERIFICATION BY | VERIFICATION BY | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |
| DRAWINGS               | DRAWINGS        | DRAWINGS        | DRAWINGS        | DRAWINGS               | DRAWINGS        | DRAWINGS        | DRAWINGS        | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |
| CORRECTED BY           | CORRECTED BY    | CORRECTED BY    | CORRECTED BY    | CORRECTED BY           | CORRECTED BY    | CORRECTED BY    | CORRECTED BY    | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |
| MICRO-FILM INFORMATION |                 |                 |                 | MICRO-FILM INFORMATION |                 |                 |                 | MICRO-FILM INFORMATION |    |      |     | MICRO-FILM INFORMATION |     |     |     |
| RECORDED BY            | RECORDED BY     | RECORDED BY     | RECORDED BY     | RECORDED BY            | RECORDED BY     | RECORDED BY     | RECORDED BY     | NO.                    | BY | DATE | NO. | NO.                    | NO. | NO. | NO. |



06/26/24

**TIERRA WEST, LLC**  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

NEW MEXICO ENERGY MINERAL AND NATURAL RESOURCE  
ABANDONED MINE LAND PROGRAM

TITLE:  
**MADRID WATER - FIRE SUPPRESSION IMPROVEMENTS  
EROSION CONTROL DETAILS**

| LAST DESIGN UPDATE | MO./DAY/YR.       |  | MO./DAY/YR.  |    |
|--------------------|-------------------|--|--------------|----|
|                    |                   |  |              |    |
|                    |                   |  |              |    |
|                    |                   |  |              |    |
| PROJECT NO.        | EMNRD-MMD-2025-01 |  | ZONE MAP NO. |    |
| SHEET              | 16                |  | OF           | 16 |





Quantity Sheet  
PROJECT: Madrid Waterline and Tank

Date:

|  |  |      |                 | BUDGET          |           |
|--|--|------|-----------------|-----------------|-----------|
|  | DESCRIPTION  | UNIT | QUANTITY        | U. PRICE        | CAL. COST |
|  | Earthwork for Tank Foundation                                | CY   | 700.00          |                 |           |
|  | PH Corrective Soil (assume 4" layer under tank)              | SY   | 84.00           |                 |           |
|  | Slope Stabilization (3"-4" fractured rock, 8" thick)         | CY   | 58.00           |                 |           |
|  | Water Storage Tank Foundation                                | LS   | 1.00            |                 |           |
|  | Water Storage Tank (125,000 gallons w/ insulation or heater) | LS   | 1.00            |                 |           |
|  | 6" WL Pipe, w/o Fit, with trenching                          | LF   | 20.00           |                 |           |
|  | 8" WL Pipe, w/o Fit, with trenching                          | LF   | 1,100.00        |                 |           |
|  | Non-Pressurized Connection, w/ Fit                           | EA   | 1.00            |                 |           |
|  | Ductile Iron Fittings, WL                                    | LB   | 2,500.00        |                 |           |
|  | 6" Gate Valve  | EA   | 2.00            |                 |           |
|  | 8" Gate Valve  | EA   | 2.00            |                 |           |
|  | Pipe Insulation  | LF   | 12.00           |                 |           |
|  | Valve Box  | EA   | 4.00            |                 |           |
|  | Fire Hydrant, 4'   | EA   | 2.00            |                 |           |
|  | Mechanical Joint Restraining Gland, 4"-8"                    | EA   | 12.00           |                 |           |
|  | Joint Restraining Harness, 4"-8"                             | EA   | 12.00           |                 |           |
|  | 2" Water Line  | LF   | 110.00          |                 |           |
|  | Pipe Insulation  | LS   | 1.00            |                 |           |
|  | Jack and Bore  | LF   | 65.00           |                 |           |
|  | Traffic Control  | LS   | 1.00            |                 |           |
|  | Rock Excavation (If needed)                                  | LS   | 1.00            |                 |           |
|  |  |      |                 |                 |           |
|  |  |      |                 | <b>SUBTOTAL</b> |           |
|  |  |      | <b>SUBTOTAL</b> |                 |           |
|  | NMGRT 6.875%   |      |                 |                 |           |
|  |  |      | <b>SUBTOTAL</b> |                 |           |
|  |  |      | <b>TOTAL</b>    |                 |           |

ENGINEER'S DISCLAIMER ON THE ENGINEERING ESTIMATE OF PROBABLE COST

This Engineer's opinion of probable construction cost is made on the basis of Engineer's experience and qualifications and represents the Engineer's best judgment as an experienced and qualified professional generally familiar with the industry. However, since the Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding on market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction costs as prepared by Engineer. If Owner wishes greater assurance as to



## MANDATORY PRE-BID CONFERENCE

Page 1 of 5

## ABANDONED MINE LAND PROGRAM, NEW MEXICO MINING AND MINERALS DIVISION

PROJECT: Madrid Water Tank Project EMNRD-MMD-2025-01DATE: January 14, 2025TIME: 9:00 A.M.LOCATION: Madrid, NM

## Company Name &amp; Address

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Capital Equipment                 | Contact Person: Steve Grieggs       |
|                                   | Telephone: 505-410-8900             |
|                                   | Email: SGrieggs@CPEPumps.com        |
| 3B BUILDERS INC                   | Contact Person: MATTHEW BUDAGHER    |
| 1770 HAMILTON LN BERNIE FARIS, NM | Telephone: 505 553 -0544            |
| 87068                             | Email: 3bBUILDERS@gmail.com         |
| Young Gunz Construction           | Contact Person: Robert McCallister  |
|                                   | Telephone: (505) 720-2383           |
|                                   | Email: mccallister_r@yahoo.com      |
| MERIDIAN CONSTRUCTION             | Contact Person: DIRK HOLTMAN        |
|                                   | Telephone: (505) 263-3001           |
|                                   | Email: d.holtman@MERIDIANCON.NM     |
| Ma H Beck Jd S Plumbing & Heating | Contact Person: Ma H Beck           |
|                                   | Telephone: 575 642 3480             |
|                                   | Email: JandS plumbing hty@gmail.com |
| Rymarc Construction, INC.         | Contact Person: Bruce Lopez         |
|                                   | Telephone: 575-781-0508             |
|                                   | Email: bruce@rymarcconstruction.com |
| CULTURA CONSTRUCTION LLC          | Contact Person: NICHOLAS MATA       |
|                                   | Telephone: 505-414-4614             |
|                                   | Email: N.MATA@CULTURANM.COM         |
| Cultura construction LLC          | Contact Person: Brandon Sanchez     |
|                                   | Telephone: 505 554 9649             |
|                                   | Email: b.Sanchez@culturanm.com      |



## MANDATORY PRE-BID CONFERENCE

Page 2 of 5

## ABANDONED MINE LAND PROGRAM, NEW MEXICO MINING AND MINERALS DIVISION

PROJECT: Madrid Water Tank Project EMNRD-MMD-2025-01DATE: January 14, 2025TIME: 9:00 A.M.LOCATION: Madrid, NM

## Company Name &amp; Address

|                                   |  |
|-----------------------------------|--|
| Alex S. Koehler                   | Contact Person: Alex Koehler                 |
|                                   | Telephone: 702-210-2179                      |
|                                   | Email: AKoehler@geotekusa.com                |
| Chris Scherer Enviroworks LLC     | Contact Person: Chris Scherer                |
| PO Box 340                        | Telephone: 505-220-0044                      |
| Edgewood, NM 87015                | Email: chris@enviroworksforyou.com           |
| Beau Johnston                     | Contact Person: Beau Johnston                |
| Integrated Water Services         | Telephone: 208-241-5621                      |
| Austin, TX                        | Email: bjohnston@integratedwaterservices.com |
| Kenny White Runyan                | Contact Person: Kenny White                  |
| P.O. Box 1775                     | Telephone: 1-575-538-1288                    |
| Sulphur City, NM 88061            | Email: kenny.white@runyaninc.com             |
| Sheridan Francis                  | Contact Person: Tristan Bocheor              |
| 10612 Range Rd. SW                | Telephone: 505-544-6517                      |
| Albuquerque, NM 87112             | Email: t-pain@kincnm.com                     |
| New Image Const HCR 7213d S Rbryn | Contact Person: Johnny Monzon                |
| NEW IMAGE Monzon @ AOL.com        | Telephone: 505-699-0166                      |
|                                   | Email: New Image Monzon @ AOL.com            |
| Fik Construction LLC              | Contact Person: Thomas Wisneski              |
| 109 Industrial AVE NE             | Telephone: 505-977-1408                      |
| Albuquerque, NM 87101             | Email: thomasw@fconst.com                    |
| SDV Construction                  | Contact Person: Michael Parsons              |
| 8912 Adams St                     | Telephone: 505-607-0676                      |
| ABQ, NM 87113                     | Email: estimating@sdvconstruction.com        |



## MANDATORY PRE-BID CONFERENCE

## ABANDONED MINE LAND PROGRAM, NEW MEXICO MINING AND MINERALS DIVISION

PROJECT: Madrid Water Tank Project EMNRD-MMD-2025-01DATE: January 14, 2025TIME: 9:00 A.M.LOCATION: Madrid, NM

## Company Name &amp; Address

|                            |  |
|----------------------------|--|
| Lloyd Morick EMNRD         | Contact Person:                          |
|                            | Telephone: 505-629-3757                  |
|                            | Email:                                   |
| Daniela Chacon             | Contact Person:                          |
|                            | Telephone: 505-819-8180                  |
|                            | Email:                                   |
| Andrew Zuk                 | Contact Person:                          |
|                            | Telephone: 505-490-7374                  |
|                            | Email:                                   |
| Ashley Veihl               | Contact Person:                          |
|                            | Telephone:                               |
|                            | Email: ashley.veihl@emnrd.nm.gov         |
| Del Torres ORCOM           | Contact Person: Del Torres               |
|                            | Telephone: 575-277-6467                  |
|                            | Email: del@ortcominc.com                 |
| Quality plumbing & Heating | Contact Person: Amos Gallegos            |
|                            | Telephone: 505-459-6490                  |
|                            | Email: Qualityplumbing@ME.COM            |
| WAGNER CONSTRUCTION        | Contact Person: SCOTT JONES              |
|                            | Telephone: 218-283-3700                  |
|                            | Email: S.JONES@WAGNERCONSTRUCTIONINC.COM |
| DARTANK Co.                | Contact Person: Gene Norman              |
| 1210 Prosperity SE         | Telephone: 505/934-5458                  |
| Albuquerque NM 87105       | Email: bids@drtank.com                   |



## MANDATORY PRE-BID CONFERENCE

Page 4 of 5

## ABANDONED MINE LAND PROGRAM, NEW MEXICO MINING AND MINERALS DIVISION

PROJECT: Madrid Water Tank Project EMNRD-MMD-2025-01DATE: January 14, 2025TIME: 9:00 A.M.LOCATION: Madrid, NM

## Company Name &amp; Address

|                               |  |
|-------------------------------|--|
| GME GENERAL BUILDING          | Contact Person: <u>BRUCE SMITH/ERIK TRUJILLO</u> |
| 3225 RICHARD'S LN UNIT A      | Telephone: <u>(505) 577-4028</u>                 |
| SANTA FE, NM 87507            | Email: <u>BRUCE@GMEGENERALBUILDING.COM</u>       |
| <del>J.R. Hill</del>          | Contact Person: <u>J.R. Hill</u>                 |
| Frontier Development Inc. com | Telephone: <u>817-487-9152</u>                   |
|                               | Email: <u>Jhill@frontierdevelopmentinc.com</u>   |
| Sweatt Construction           | Contact Person: <u>Derek Bills</u>               |
|                               | Telephone: <u>575-513-1710</u>                   |
|                               | Email: <u>d.bills@SweattConstruction.com</u>     |
| Jethro Bawden                 | Contact Person: <u>Jethro Bawden</u>             |
| Madrid Water                  | Telephone: <u>505-473-7160</u>                   |
|                               | Email: <u>—</u>                                  |
|                               | Contact Person:                                  |
|                               | Telephone:                                       |
|                               | Email:   |
|                               | Contact Person:                                  |
|                               | Telephone:                                       |
|                               | Email:   |
|                               | Contact Person:                                  |
|                               | Telephone:                                       |
|                               | Email:   |
|                               | Contact Person:                                  |
|                               | Telephone:                                       |
|                               | Email:   |



## MANDATORY PRE-BID CONFERENCE

Page 5 of 5

## ABANDONED MINE LAND PROGRAM, NEW MEXICO MINING AND MINERALS DIVISION

PROJECT: Madrid Water Tank Project EMNRD-MMD-2025-01DATE: January 14, 2025TIME: 9:00 A.M.LOCATION: Madrid, NM

## Company Name &amp; Address

|                        |                                   |
|------------------------|-----------------------------------|
| Leland Murray          | Contact Person:                   |
| NM AML Program         | Telephone: 505-629-9677           |
|                        | Email: Leland.Murray@emnrn.nm.gov |
| Tierra West, LLC       | Contact Person: Jon Niski         |
|                        | Telephone: 505 858 3100           |
|                        | Email: jniski@tierrawestllc.com   |
| New Mexico AML Program | Contact Person: Mike Thompson     |
|                        | Telephone: 505-690-8063           |
|                        | Email: mike-thompson@emnrn.nm.gov |
|                        | Contact Person:                   |
|                        | Telephone:                        |
|                        | Email:                            |
|                        | Contact Person:                   |
|                        | Telephone:                        |
|                        | Email:                            |
|                        | Contact Person:                   |
|                        | Telephone:                        |
|                        | Email:                            |
|                        | Contact Person:                   |
|                        | Telephone:                        |
|                        | Email:                            |





# TYPE "H" – HEAVY ENGINEERING

Effective January 1, 2025

| Trade Classification  | Base Rate | Fringe Rate | Apprenticeship |
|---|-----------|-------------|----------------|
| <b>Cement Mason</b>   | 25.08     | 7.41        | 0.60           |
| <b>Drywall Finisher/Taper</b>   | 30.51     | 9.63        | 0.60           |
| <b>Painter-Industrial</b>   | 24.00     | 6.70        | 0.60           |
| <b>Paperhanger</b>  | 24.00     | 6.70        | 0.60           |
| <b>Plumber/Pipefitter</b>   | 43.07     | 17.25       | 0.60           |
| <b>Sheet Metal Worker</b>   | 39.13     | 19.33       | 0.60           |
| <b>Soft Floor Layer</b>   | 21.00     | 9.20        | 0.60           |
| <b>Asbestos Workers/Heat &amp; Frost Insulators</b>                           |           |             |                |
| Asbestos workers/Heat & Frost Insulators                                      | 36.36     | 12.46       | 0.60           |
| Asbestos workers/Heat & Frost Insulators: Los Alamos County                   | 38.79     | 12.46       | 0.60           |
| <b>Boilermaker/Blacksmith</b>   |           |             |                |
| Boilermaker/blacksmith  | 35.88     | 32.28       | 0.60           |
| Boilermaker/blacksmith: San Juan County                                       | 36.83     | 31.88       | 0.60           |
| <b>Bricklayer/Block Layer/Stonemason</b>                                      |           |             |                |
| Bricklayer/Block layer/Stonemason   | 27.03     | 10.99       | 0.60           |
| Bricklayer/Block layer/Stonemason: Curry, DeBaca, Quay and Roosevelt counties | 23.10     | 8.98        | 0.60           |
| Bricklayer/Block layer/Stonemason: Dona Ana, Otero, Eddie and Lea counties    | 26.42     | 8.98        | 0.60           |
| <b>Carpenter</b>  |           |             |                |
| Carpenter/Lather  | 30.89     | 13.26       | 0.60           |
| Carpenter: Los Alamos County  | 37.39     | 14.18       | 0.60           |



**Trade Classification****Base Rate****Fringe Rate****Apprenticeship****Electricians-Outside Classifications: Zone 1**

|                       |       |       |      |
|-----------------------|-------|-------|------|
| Ground man            | 27.18 | 13.32 | 0.60 |
| Equipment Operator    | 38.99 | 17.67 | 0.60 |
| Lineman or technician | 49.25 | 20.82 | 0.60 |
| Cable Splicer         | 50.46 | 21.11 | 0.60 |

**Electricians-Outside Classification: Zone 2**

|                       |       |       |      |
|-----------------------|-------|-------|------|
| Ground man            | 27.18 | 13.32 | 0.60 |
| Equipment Operator    | 38.99 | 17.67 | 0.60 |
| Lineman or technician | 49.25 | 20.82 | 0.60 |
| Cable Splicer         | 50.46 | 21.11 | 0.60 |

**Electricians-Outside Classifications: Los Alamos**

|                       |       |       |      |
|-----------------------|-------|-------|------|
| Ground man            | 27.95 | 13.34 | 0.60 |
| Equipment Operator    | 40.11 | 17.70 | 0.60 |
| Lineman or technician | 50.54 | 21.14 | 0.60 |
| Cable Splicer         | 55.50 | 22.38 | 0.60 |

**Electricians-Inside Classifications: Zone 1**

|                                |       |       |      |
|--------------------------------|-------|-------|------|
| Wireman/low voltage technician | 40.30 | 13.01 | 0.60 |
| Cable Splicer                  | 44.33 | 13.13 | 0.60 |

**Electricians-Inside Classification: Zone 2**

|                                |       |       |      |
|--------------------------------|-------|-------|------|
| Wireman/low voltage technician | 43.93 | 13.11 | 0.60 |
| Cable Splicer                  | 47.96 | 13.25 | 0.60 |

**Electricians-Inside Classification: Zone 3**

|                                |       |       |      |
|--------------------------------|-------|-------|------|
| Wireman/low voltage technician | 46.35 | 13.19 | 0.60 |
| Cable Splicer                  | 50.38 | 13.32 | 0.60 |



**Trade Classification****Base Rate****Fringe Rate****Apprenticeship****Electricians-Inside Classification: Zone 4**

|                                |       |       |      |
|--------------------------------|-------|-------|------|
| Wireman/low voltage technician | 50.78 | 13.32 | 0.60 |
| Cable Splicer                  | 54.81 | 13.44 | 0.60 |

**Electricians-Inside Classification: Doña Ana, Hidalgo, Luna, and Otero County**

|                                |       |      |      |
|--------------------------------|-------|------|------|
| Wireman/low voltage technician | 32.82 | 9.85 | 0.60 |
| Cable splicer                  | 32.82 | 9.85 | 0.60 |

**Electricians-Inside Classification: Los Alamos**

|                                |       |       |      |
|--------------------------------|-------|-------|------|
| Wireman/low voltage technician | 46.35 | 15.50 | 0.60 |
| Cable Splicer                  | 50.38 | 15.83 | 0.60 |

**Glazier**

|                    |       |      |      |
|--------------------|-------|------|------|
| Glazier/Fabricator | 22.25 | 7.40 | 0.60 |
|--------------------|-------|------|------|

**Ironworker**

|                         |       |       |      |
|-------------------------|-------|-------|------|
| Ironworker Journeyman   | 28.96 | 19.11 | 0.60 |
| Probationary Ironworker | 23.17 | 19.11 | 0.60 |

**Roofer**

|                   |       |      |      |
|-------------------|-------|------|------|
| Roofer Journeyman | 29.71 | 9.36 | 0.60 |
| Roofer Helper     | 17.83 | 9.36 | 0.60 |

**Operators**

|           |       |      |      |
|-----------|-------|------|------|
| Group I   | 26.32 | 6.95 | 0.60 |
| Group II  | 26.46 | 6.95 | 0.60 |
| Group III | 26.71 | 6.95 | 0.60 |
| Group IV  | 27.27 | 6.95 | 0.60 |

**Trade Classification****Base Rate****Fringe Rate****Apprenticeship**



|            |       |      |      |
|------------|-------|------|------|
| Group V    | 27.39 | 6.95 | 0.60 |
| Group VI   | 27.65 | 6.95 | 0.60 |
| Group VII  | 27.67 | 6.95 | 0.60 |
| Group VIII | 30.56 | 6.95 | 0.60 |
| Group IX   | 36.83 | 6.95 | 0.60 |
| Group X    | 41.06 | 6.95 | 0.60 |

### Laborers

|                         |       |      |      |
|-------------------------|-------|------|------|
| Group I- Unskilled      | 19.74 | 7.51 | 0.60 |
| Group II – Semi-skilled | 21.19 | 7.51 | 0.60 |
| Group III- Skilled      | 22.00 | 7.51 | 0.60 |
| Group IV - Specialty    | 22.40 | 7.51 | 0.60 |

### Laborers-Underground

|           |       |      |      |
|-----------|-------|------|------|
| Group I   | 21.85 | 7.12 | 0.60 |
| Group II  | 22.65 | 7.12 | 0.60 |
| Group III | 22.37 | 7.12 | 0.60 |

### Truck Drivers

|            |       |      |      |
|------------|-------|------|------|
| Group I    | 20.55 | 9.40 | 0.60 |
| Group II   | 20.55 | 9.40 | 0.60 |
| Group III  | 20.55 | 9.40 | 0.60 |
| Group IV   | 20.55 | 9.40 | 0.60 |
| Group V    | 20.55 | 9.40 | 0.60 |
| Group VI   | 20.55 | 9.40 | 0.60 |
| Group VII  | 20.55 | 9.40 | 0.60 |
| Group VIII | 20.55 | 9.40 | 0.60 |
| Group IX   | 26.55 | 9.40 | 0.60 |

**NOTE: All contractors are required to pay SUBSISTENCE, ZONE, AND INCENTIVE PAY according to the particular trade. More information available at <https://www.dws.state.nm.us/public-works>.**



For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the New Mexico Department of Workforce Solutions Labor Relations Division at (505) 841-4400 or visit us online at [www.dws.state.nm.us](http://www.dws.state.nm.us).



"General Decision Number: NM20250034 01/03/2025

Superseded General Decision Number: NM20240034

State: New Mexico

Construction Type: Highway

County: Santa Fe County in New Mexico.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

|   |  |
|---|--|
| If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022: | <ul style="list-style-type: none"><li>. Executive Order 14026 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.</li></ul>  |
| If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:         | <ul style="list-style-type: none"><li>. Executive Order 13658 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.</li></ul> |



\_\_\_\_\_

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

|                     |                  |
|---------------------|------------------|
| Modification Number | Publication Date |
| 0                   | 01/03/2025       |

ELEC0611-003 07/01/2014

|                                  | Rates    | Fringes |
|----------------------------------|----------|---------|
| ELECTRICIAN (Boom Operator)..... | \$ 29.79 | 12.74   |

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|  | Rates       | Fringes |
|--|-------------|---------|
| CARPENTER (Includes Form Work)...  | \$ 13.88 ** | 0.44    |
| CEMENT MASON/CONCRETE FINISHER...  | \$ 14.60 ** | 0.26    |
| ELECTRICIAN (Includes Traffic<br>Signalization and<br>Installation).....   | \$ 25.06    | 8.56    |
| HIGHWAY/PARKING LOT STRIPING:<br>Includes Highway Line/Parking<br>Lot Line Striping and Line<br>Striping Truck Driver..... | \$ 14.75 ** | 0.35    |
| IRONWORKER, REINFORCING.....   | \$ 22.44    | 5.85    |
| LABORER  |             |         |
| Common or General.....   | \$ 11.21 ** | 0.35    |
| Flagger/Cone Setter.....   | \$ 13.55 ** | 0.35    |
| Mason Tender-<br>Cement/Concrete.....  | \$ 10.25 ** | 0.35    |
| Pipelayer.....   | \$ 17.13 ** | 5.04    |

POWER EQUIPMENT OPERATOR:



|                              |             |      |
|------------------------------|-------------|------|
| Backhoe/Excavator/Trackhoe.. | \$ 17.20 ** | 0.26 |
| Bobcat/Skid Loader.....      | \$ 12.00 ** | 0.26 |
| Broom/Sweeper.....           | \$ 16.67 ** | 1.57 |
| Grader/Blade.....            | \$ 17.64 ** | 1.51 |
| Loader (Front End).....      | \$ 16.43 ** | 0.26 |
| Mechanic.....                | \$ 23.24    | 1.51 |
| Oiler.....                   | \$ 22.08    | 8.72 |
| Piledriver.....              | \$ 15.73 ** | 0.26 |
| Roller (Asphalt and Dirt)... | \$ 16.27 ** | 1.51 |
| Trencher.....                | \$ 15.22 ** | 0.26 |

#### TRUCK DRIVER

|                    |             |      |
|--------------------|-------------|------|
| Dump Truck.....    | \$ 15.04 ** | 0.26 |
| Flatbed Truck..... | \$ 13.51 ** | 0.26 |
| Pickup Truck.....  | \$ 12.95 ** | 0.26 |
| Water Truck.....   | \$ 12.96 ** | 0.26 |

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.



Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

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The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

#### Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

#### Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.



A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

#### Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

#### State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

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#### WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination



- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to [davisbaconinfo@dol.gov](mailto:davisbaconinfo@dol.gov) or by mail to:

Branch of Wage Surveys  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to [BCWD-Office@dol.gov](mailto:BCWD-Office@dol.gov) or by mail to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

- 2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to [dba.reconsideration@dol.gov](mailto:dba.reconsideration@dol.gov) or by mail to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

- 3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board



U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210.

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END OF GENERAL DECISION"



## Certificate Of Completion

Envelope Id: C6EF7A46-0FA6-43F1-82AF-81416D2C5BD2

Status: Completed

Subject: Complete with Docusign: 50-52100-24-06149 Madrid Water Tank Project B001-2A.pdf

Source Envelope:

Document Pages: 43

Signatures: 1

Envelope Originator:

Certificate Pages: 5

Initials: 2

James Ortega

AutoNav: Enabled

1100 S Saint Francis Dr

Envelopeld Stamping: Enabled

Santa Fe, NM 87502

Time Zone: (UTC-07:00) Mountain Time (US & Canada)

james.ortega@gsd.nm.gov

IP Address: 164.64.62.10

## Record Tracking

Status: Original

Holder: James Ortega

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1/24/2025 4:07:46 PM

james.ortega@gsd.nm.gov

Security Appliance Status: Connected

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Pool: General Services Department

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## Signer Events

### Signature

### Timestamp

Michael Saavedra

Michael.Saavedra@gsd.nm.gov

IT and Const. Bureau Chief

New Mexico General Services

Security Level: Email, Account Authentication  
(None)

Signature Adoption: Pre-selected Style

Using IP Address: 174.205.164.18

Signed using mobile

Sent: 1/24/2025 4:10:15 PM

Viewed: 1/24/2025 4:27:39 PM

Signed: 1/24/2025 4:28:32 PM

### Electronic Record and Signature Disclosure:

Accepted: 6/4/2020 11:04:51 AM

ID: 9cac1b3e-4279-4c8f-b2b4-c607ea9821d8

James Ortega

james.ortega@gsd.nm.gov

Security Level: Email, Account Authentication  
(None)

Signature Adoption: Pre-selected Style

Using IP Address: 164.64.62.10

Sent: 1/24/2025 4:28:35 PM

Viewed: 1/24/2025 4:29:10 PM

Signed: 1/24/2025 4:29:16 PM

### Electronic Record and Signature Disclosure:

Accepted: 10/24/2022 4:00:52 PM

ID: b93eca54-15f4-4d91-9a9f-2dee3ce43c35

Dorothy Mendonca

dorothy.mendonca@gsd.nm.gov

SPD Division Director / State Purchasing Agent

General Services Department

Signing Group: 35000 - State Purchasing Agent

Security Level: Email, Account Authentication  
(None)

Signature Adoption: Pre-selected Style

Using IP Address: 98.60.107.202

Signed using mobile

Sent: 1/24/2025 4:29:18 PM

Viewed: 1/24/2025 4:30:38 PM

Signed: 1/24/2025 5:08:55 PM

### Electronic Record and Signature Disclosure:

Accepted: 4/14/2023 7:24:59 AM

ID: 51f6380f-50f7-4227-afb5-572b373dfb7c

## In Person Signer Events

### Signature

### Timestamp

## Editor Delivery Events

### Status

### Timestamp

## Agent Delivery Events

### Status

### Timestamp

## Intermediary Delivery Events

### Status

### Timestamp



| Certified Delivery Events                  | Status           | Timestamp            |
|--|------------------|----------------------|
| Carbon Copy Events                         | Status           | Timestamp            |
| Witness Events                             | Signature        | Timestamp            |
| Notary Events                              | Signature        | Timestamp            |
| Envelope Summary Events                    | Status           | Timestamps           |
| Envelope Sent                              | Hashed/Encrypted | 1/24/2025 4:10:15 PM |
| Certified Delivered                        | Security Checked | 1/24/2025 4:30:38 PM |
| Signing Complete                           | Security Checked | 1/24/2025 5:08:55 PM |
| Completed                                  | Security Checked | 1/24/2025 5:08:55 PM |
| Payment Events                             | Status           | Timestamps           |
| Electronic Record and Signature Disclosure |                  |                      |



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