

# LOS ALAMOS COUNTY BAYO NON-POTABLE BOOSTER STATION REHABILITATION LOS ALAMOS COUNTY, NEW MEXICO

FEBRUARY 2025

construction plans for the

## BAYO NON-POTABLE BOOSTER REHABILITATION

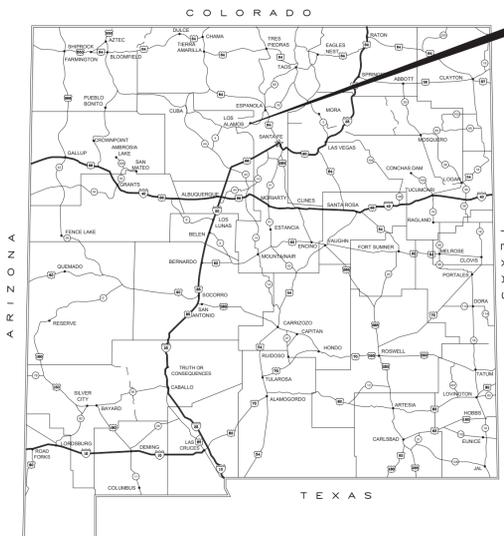


Project # IFB25-31

Project Address

INCORPORATED COUNTY OF LOS ALAMOS  
DEPARTMENT OF PUBLIC UTILITIES  
1000 CENTRAL AVENUE, SUITE 130  
LOS ALAMOS, NEW MEXICO 87544

### LOCATION OF PROJECT



VICINITY MAP

### CERTIFICATION:

I, KENNETH R. MULLER, REGISTERED PROFESSIONAL ENGINEER NO. 12548, HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



KENNETH R. MULLER P.E. REGISTERED PROFESSIONAL ENGINEER NO. 12548

## MOLZENCORBIN

ENGINEERS | ARCHITECTS | PLANNERS

2701 Miles Road SE, Albuquerque, New Mexico 87106 505.242.5700 office molzencorbin.com



Molzen Corbin Project Number: LAC241-11

G-001

Sheet 01 / 32

| DESCRIPTION  | REV DATE | REV NO. |
|--|----------|---------|
|  |          | △       |
| <b>NUMERIC SCALE CONFIRMATION</b>  |          |         |
| DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH |          |         |
|  |          |         |

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MOLZEN-CORBIN & ASSOCIATES.

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS, AND PREVIOUS CONSTRUCTION DOCUMENTS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.



PROJECT VICINITY MAP

**ABBREVIATIONS**

|     |               |
|-----|---------------|
| TS  | TOP OF SLAB   |
| TW  | TOP OF WALL   |
| TC  | TOP OF CURB   |
| TOG | TOP OF GRATE  |
| FG  | FINISH GROUND |

**LEGEND**

|            |                              |
|------------|------------------------------|
| ---6460--- | EX. INDEX CONTOUR            |
| -6460:50-  | EX. INTERMEDIATE CONTOUR     |
| 6460       | INDEX CONTOUR                |
| -6460:50-  | INTERMEDIATE CONTOUR         |
| ○          | POWER POLE                   |
| ⬢          | COMMUNICATION POST           |
| ⊕          | EXISTING FIRE HYDRANT        |
| ⊗          | EXISTING WATER VALVE         |
| ⊗          | EXISTING GAS METER           |
| ⊙          | POST                         |
| ⊖          | SIGN                         |
| —DHE—      | ELECTRIC LINE                |
| —GAS—      | EXISTING GAS LINE            |
| —W—        | EXISTING WATERLINE           |
| —SD—       | EXISTING STORM DRAIN LINE    |
| —SAS—      | EXISTING SANITARY SEWER LINE |
| —X—X—      | EXISTING FENCE               |
| ---        | GRADING LIMITS               |
| →          | DIRECTION OF FLOW            |
| ---        | FLOWLINE                     |

**UTILITY CONTACTS**

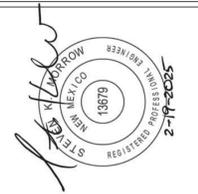
- TELECOMMUNICATIONS  
MICHELLE MARTINEZ  
505-663-3455  
michelle.martinez@lacnm.us
- DAVID GOMEZ  
505-660-9627  
david.gomez@lacnm.us

**MOLZENCORBIN**

2701 Miles Road SE  
Albuquerque, New Mexico 87106  
505 242 5700 office  
505 242 0673 fax  
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT

**NUMERIC SCALE CONFIRMATION**  
DRAWINGS ARE DEPICTED AT INTENDED  
NUMERIC SCALES  
IF THIS BAR EQUALS ONE INCH



| REV. NO. | REV. DATE | DESCRIPTION |
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|                            |                 |
|----------------------------|-----------------|
| PROJECT NUMBER:            | LAC241-11       |
| DESIGNED BY:               | JLB             |
| DRAWN BY:                  | SKM             |
| CHECKED BY:                | DANIEL GONZALES |
| PRIME DESIGN PROFESSIONAL: | DANIEL GONZALES |
| PROJECT DATE:              | FEBRUARY 2025   |

VICINITY MAP AND PROJECT INFORMATION

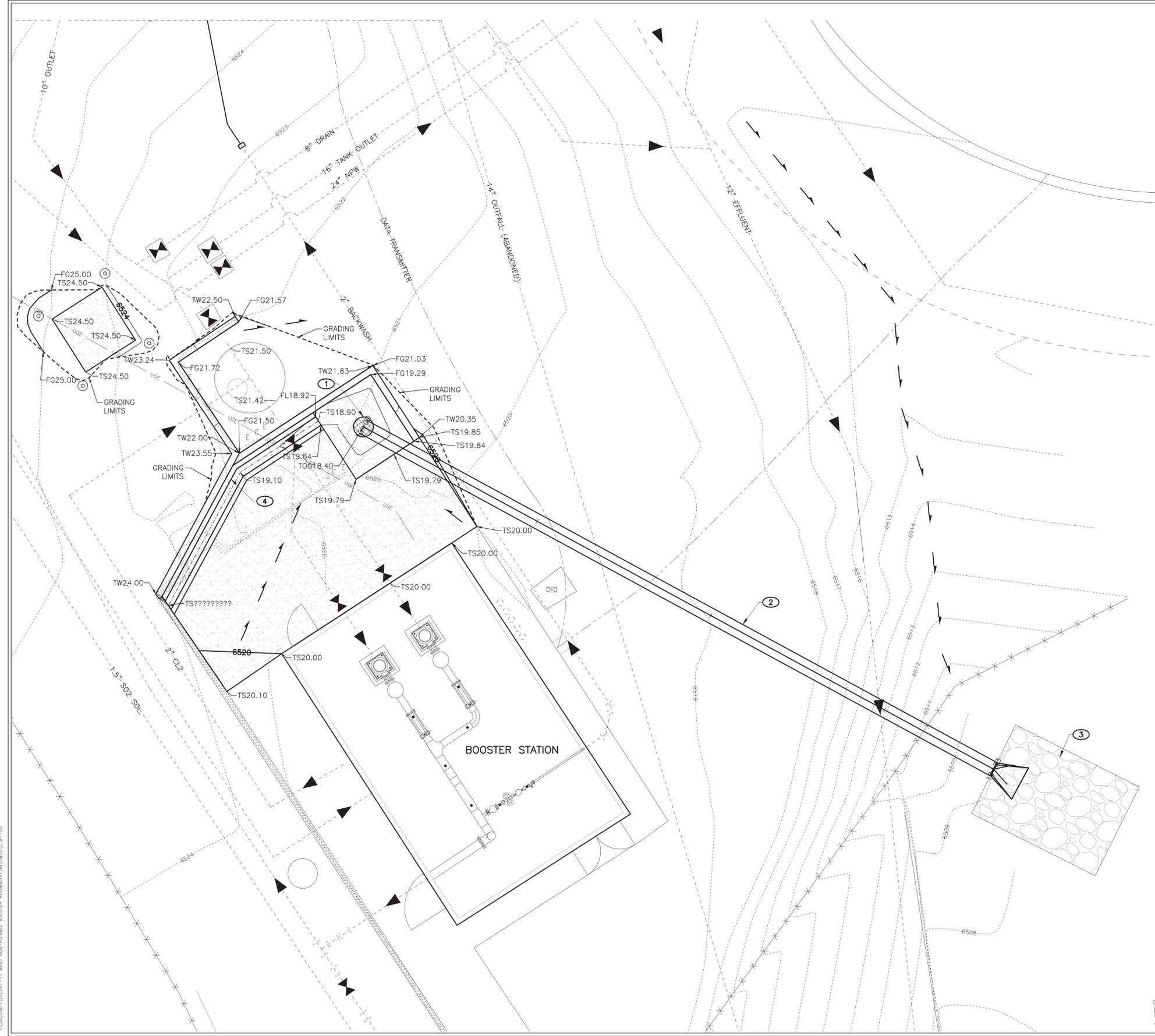
BAYO NON-POTABLE BOOSTER REHABILITATION  
LOS ALAMOS COUNTY  
LOS ALAMOS COUNTY, NEW MEXICO

**G-003**

SHEET 03 / 32

PLANT DATE: 01/17/2025 10:52 AM  
DRAWN DATE: 12/17/2024 2:28 PM  
PROJECT: BAYO NON-POTABLE BOOSTER REHABILITATION (DWG) (GIA)-003

DATE: 2/19/2025 4:51 PM  
 DATE: 2/19/2025 4:31 PM  
 \LACOUNTY\241-11 BAYO NON-POTABLE BOOSTER REHABILITATION\DWG\CIA-103



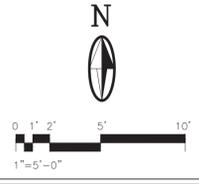
- KEYED NOTES**
- 24" CATCH BASIN WITH DOME GRATE SEE DETAIL SHEET C-501  
 TOG=19.29  
 INV. (OUT)=09.65  
 N=1777431.75  
 E=1644123.09
  - 18" HDPE STORM DRAIN PIPE WITH STANDARD END SECTION SEE STRUCTURE PLACEMENT SHEET C-501
  - 10'-0"Wx14'-0"L 9" RIP-RAP BLANKET SEE DETAIL SHEET C-501
  - CONCRETE CHANNEL SEE SHEET SHEETS C-301 AND C-501

PROJECT HYDROLOGY

| AREA DESCRIPTION | Rational Method C | I (15 MIN IN /HR) | AREA (ACRE) | 100 YR Q (CFS) |
|------------------|-------------------|-------------------|-------------|----------------|
| GRAVEL PAVING    | 0.85              | 5.08              | 0.29        | 1.25           |

PROJECT DRAINAGE STRUCTURES

| CONVEYANCE TYPE  | CONVEYANCE Q (CFS) |
|------------------|--------------------|
| 12" WIDE CHANNEL | 2.05               |
| 18" DROP INLET   | 3.75               |
| 18 CMP @ 0.73%   | 9.50               |

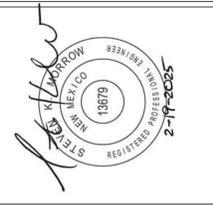


**CAUTION:**  
 NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

**MOLZENCORBIN**  
 2701 Miles Road SE  
 Albuquerque, New Mexico 87106  
 505 242 5700 office  
 505 242 0673 fax  
 MolzenCorbin.com

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**NUMERIC SCALE CONFIRMATION**  
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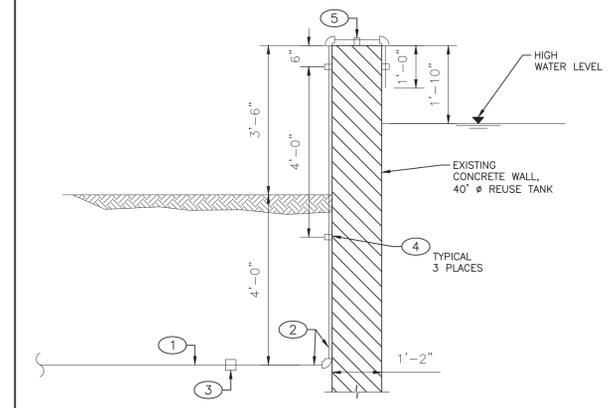
PROJECT NUMBER: LAC241-11  
 DESIGNED BY: JLB  
 DRAWN BY: SKM  
 CHECKED BY: SKM  
 PRIME DESIGN PROFESSIONAL: DANIEL GONZALES  
 PROJECT DATE: FEBRUARY 2025

**GRADING AND DRAINAGE PLAN**  
**BAYO NON-POTABLE BOOSTER REHABILITATION**  
 LOS ALAMOS COUNTY  
 LOS ALAMOS COUNTY, NEW MEXICO

**C-103**  
 SHEET 07 / 32

**KEYED NOTES (P) -TANK CONNECTION DETAIL**

- 2" SCHEDULE 80 PVC
- 2" SCHEDULE 40 GALVANIZED STEEL PIPE WITH THREADED GALVANIZED MALLEABLE IRON BENDS
- 2" SCHEDULE 40 THREADED GALVANIZED STEEL COUPLING.
- HOT DIPPED GALVANIZED STEEL PIPE SUPPORT, B-LINE EATON B3256-2 WITH TYPE 316 STAINLESS STEEL CONCRETE ANCHOR BOLTS.
- HOT DIPPED GALVANIZED STEEL STRUT MOUNTED PIPE GUIDE, B-LINE EATON B2417-2 WITH B2043 CLAMP, 6" LENGTH OF B22 CHANNEL, AND TYPE 316 STAINLESS STEEL CONCRETE ANCHOR BOLTS.



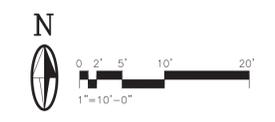
**TANK CONNECTION DETAIL**  
SCALE: 1/2"=1'-0"

**KEYED NOTES (P)**

- INSTALL 10" GATE VALVE, RESTRAINED MJ ENDS ON EXISTING 10" DUCTILE IRON PIPE FORCEMAIN.
- 10" DUCTILE IRON PIPE SPOOL, 36" LONG, PE x PE.
- 10" SOLID SLEEVE COUPLING, DUCTILE IRON, RESTRAINED MJ ENDS.
- CONCRETE THRUST BLOCK, SEE DETAIL ON SHEET W-504.
- INSTALL 10" GATE VALVE, MJ ENDS ON EXISTING 10" DUCTILE IRON PIPE. SEE DETAIL THIS SHEET.
- INSTALL (2) 10" GATE VALVES ON EXISTING 10" PIPE. SEE DETAIL ON SHEET W-202.
- CONSTRUCT RETAINING WALLS, SEE SHEET C-102.
- CONSTRUCT STORM DRAIN PIPE AND RIP RAP BLANKET, SEE SHEET C-103.
- EXISTING RETAINING WALL.
- CONSTRUCT CONCRETE PAD FOR TRANSFORMER, SEE SHEET E-101.
- NEW 2" PVC RELIEF VALVE DRAIN. SEE SHEET W-202.

**GENERAL NOTES**

- BURIED VALVES AND FITTINGS (MJ ENDS): INSTALL RESTRAINT DEVICES (MEGA-LUGS) ON ALL FITTING AND VALVE CONNECTIONS.
- SEE CIVIL SHEETS FOR DETAILS ON DEMOLITION AND SITE PLANS.

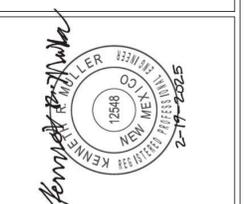


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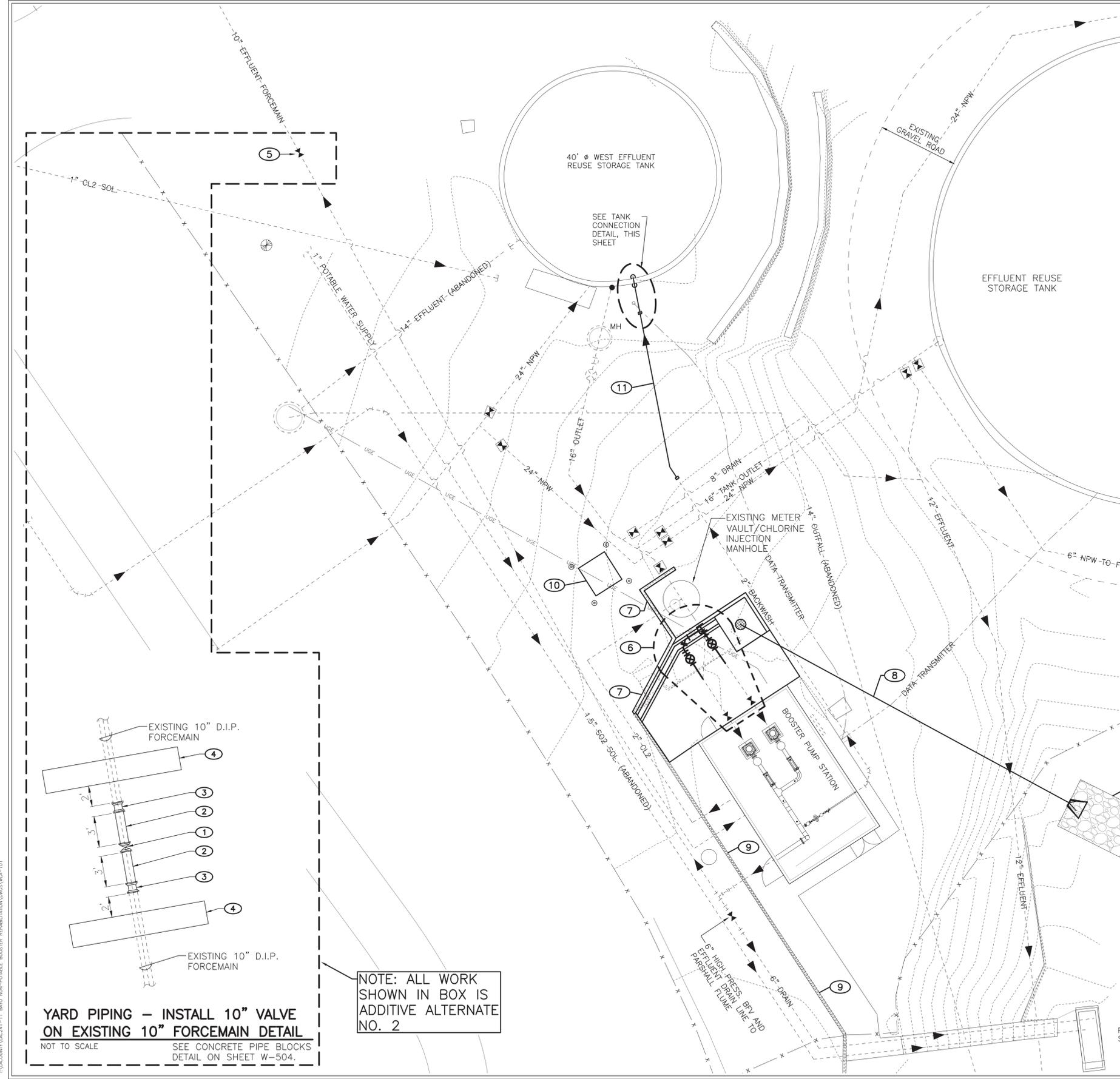
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| PROJECT NUMBER:            | LAC241-11     |
| DESIGNED BY:               | ACC           |
| DRAWN BY:                  | DJ            |
| CHECKED BY:                | KM            |
| PRIME DESIGN PROFESSIONAL: | KEN MILLER    |
| PROJECT DATE:              | FEBRUARY 2025 |

**YARD PIPING MODIFICATIONS PLAN  
TO EXISTING FACILITIES**

**BAYO NON-POTABLE BOOSTER REHABILITATION**  
LOS ALAMOS COUNTY  
LOS ALAMOS COUNTY, NEW MEXICO

**W-101**

SHEET 13 / 32

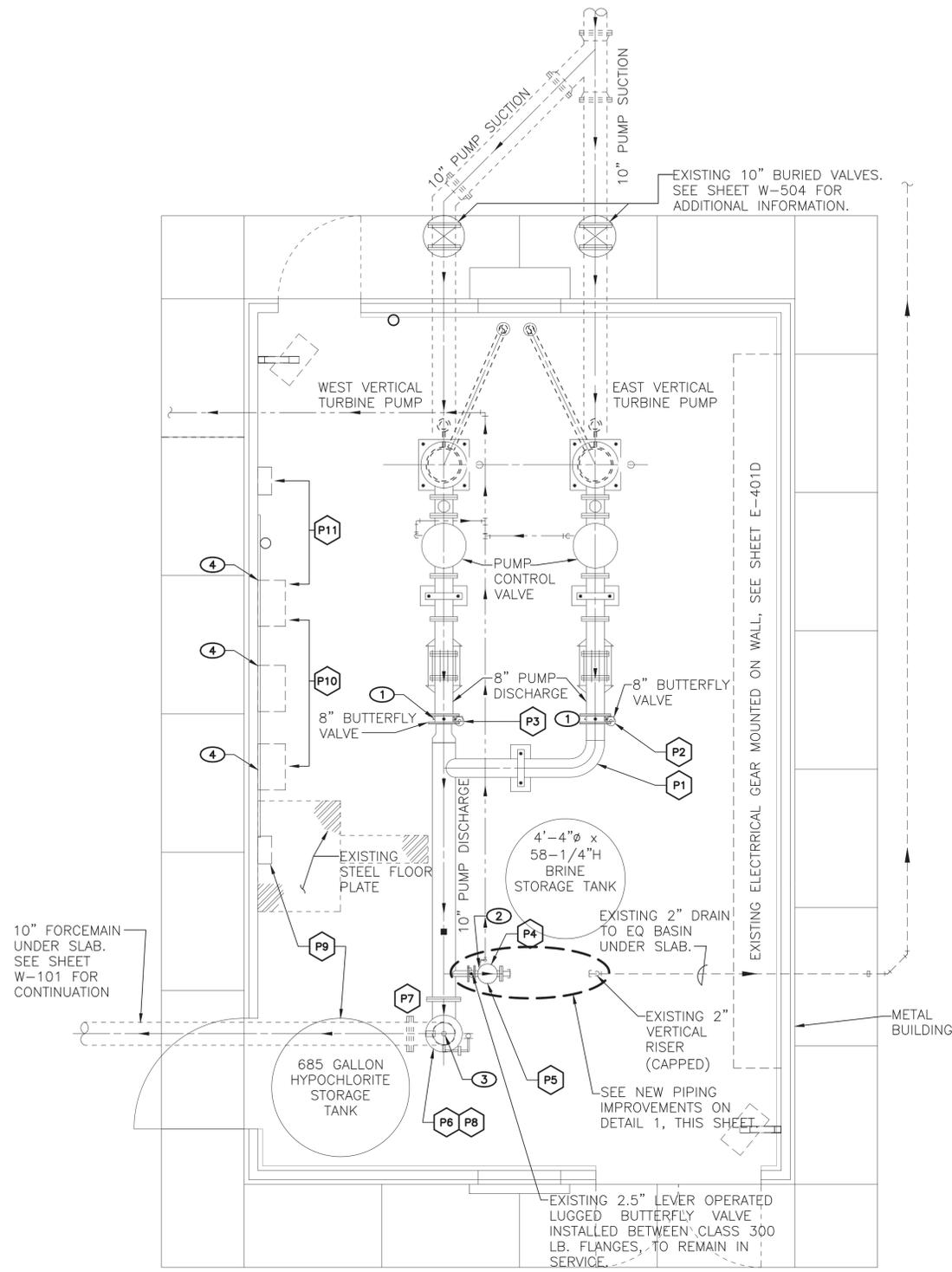


**YARD PIPING - INSTALL 10" VALVE  
ON EXISTING 10" FORCEMAIN DETAIL**  
NOT TO SCALE SEE CONCRETE PIPE BLOCKS  
DETAIL ON SHEET W-504.

**NOTE: ALL WORK  
SHOWN IN BOX IS  
ADDITIVE ALTERNATE  
NO. 2**

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 FILE: \\AD001\PLAC241-11\_BAYO\_NON-POTABLE BOOSTER REHABILITATION\DWGS\W-101

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 I:\AD\DWG\241-11 BAYO NON-POTABLE BOOSTER REHABILITATION.DWG\$WLA-102



**EXISTING BOOSTER STATION PLAN**  
SCALE: 3/8" = 1'-0"

**KEYED NOTES #**

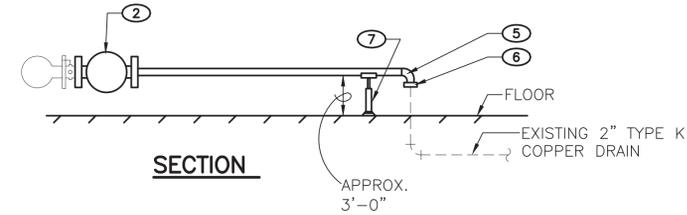
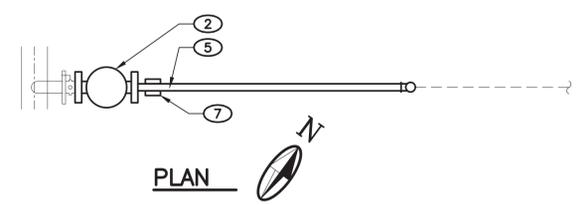
1. REMOVE EXISTING 8" BUTTERFLY VALVE AND HANDWHEEL OPERATOR. REPLACE VALVE AND OPERATOR WITH 8" LUGGED TYPE BODY BUTTERFLY VALVE AND MANUAL HANDWHEEL OPERATOR. INSTALL NEW VALVE BETWEEN EXISTING FLANGES. EXISTING PUMP DISCHARGE PIPING LAYOUT AND VALVES ARE SHOWN ON SHEET W-501: PICTURES P1, P2, AND P3.
2. REMOVE AND SALVAGE EXISTING 2.5" PRESSURE REDUCING VALVE HAVING CLASS 300 LBS. FLANGES AND BLIND FLANGE WITH 2" CAPPED THREADED TAP. REPLACE WITH 2.5" SURGE ANTICIPATOR/PRESSURE RELIEF VALVE FOR SURGE PROTECTION. SEE SPECIFICATION 40 27 02.13. EXISTING PRESSURE REDUCING VALVE IS SHOWN ON SHEET W-501: PICTURES P4 AND P5.
3. REMOVE EXISTING 2" AIR RELIEF VALVE MOUNTED ON 10" FLANGE TEE. DISCONNECT AT 2" THREADED PIPE AND TEE; INSTALL NEW 2" ISOLATION BALL VALVE BETWEEN 10" TEE AND NEW 2" AIR RELIEF VALVE FOR SEWAGE SERVICE. EXISTING AIR RELIEF VALVE IS SHOWN ON SHEET W-502: PICTURES P6, P7, AND P8.

**KEYED NOTES #**

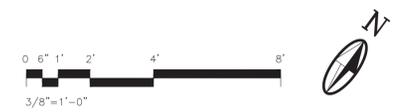
4. COUNTY WILL REMOVE EXISTING MIOX DISINFECTION SYSTEM EQUIPMENT. CONTRACTOR SHALL REPLACE WITH NEW MIXED OXIDANT DISINFECTION SYSTEM INCLUDING PIPING AND APPURTENANCES FOR A COMPLETE AND OPERABLE SYSTEM. EXISTING MIOX DISINFECTION EQUIPMENT AND PIPING ARE SHOWN ON SHEET W-503: PICTURES: P9, P10, AND P11.
5. INSTALL 2.5" PAINTED STEEL PIPE, SCHEDULE 40, WITH CLASS 300 LB FLANGE ON STRAIGHT END AND WELDED 90° BEND WITH CLASS 150 LB. FLANGE ON VERTICAL BRANCH.
6. INSTALL 2.5" FLANGED STEEL X 2.0" COPPER DIELECTRIC UNION WITH BUSHING. CONNECT TO EXISTING 2.0" COPPER RISER.
7. GALVANIZED STEEL ADJUSTABLE PIPE SUPPORT ON 1/2" GROUT PAD.

**LEGEND**

- ① KEYED NOTES
- ⬡ PICTURE NUMBER



**DETAIL 1**  
NOT TO SCALE



**MOLZENCORBIN**

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| DESIGNED BY:               | ACC           |
| DRAWN BY:                  | DJ            |
| CHECKED BY:                | KM            |
| PRIME DESIGN PROFESSIONAL: | KEN MILLER    |
| PROJECT DATE:              | FEBRUARY 2025 |

BOOSTER STATION REMOVAL AND MODIFICATION PLAN

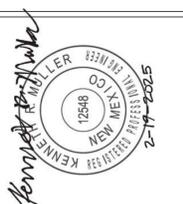
BAYO NON-POTABLE BOOSTER REHABILITATION  
 LOS ALAMOS COUNTY  
 LOS ALAMOS COUNTY, NEW MEXICO

**W-102**

SHEET 14 / 32

NOTICE OF EXTENDED PAYMENT PROVISION:  
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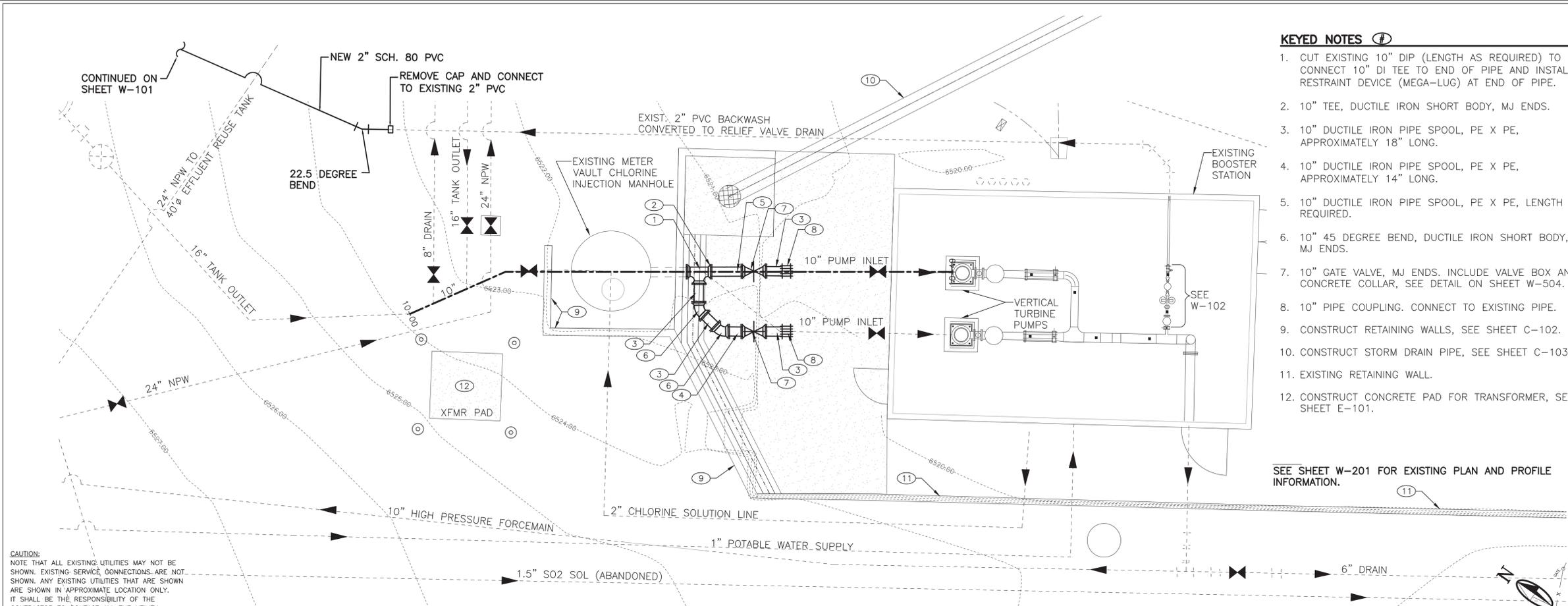
**NUMERIC SCALE CONFIRMATION**  
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**KEYED NOTES**

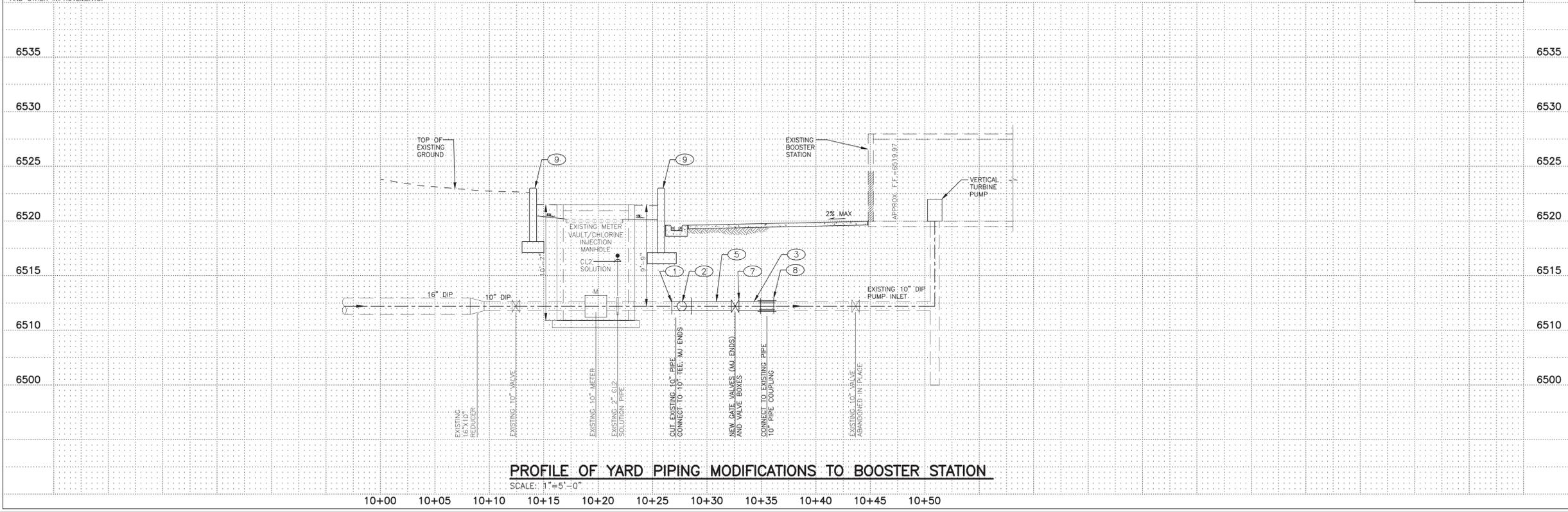
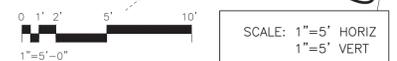
1. CUT EXISTING 10" DIP (LENGTH AS REQUIRED) TO CONNECT 10" DI TEE TO END OF PIPE AND INSTALL RESTRAINT DEVICE (MEGA-LUG) AT END OF PIPE.
2. 10" TEE, DUCTILE IRON SHORT BODY, MJ ENDS.
3. 10" DUCTILE IRON PIPE SPOOL, PE X PE, APPROXIMATELY 18" LONG.
4. 10" DUCTILE IRON PIPE SPOOL, PE X PE, APPROXIMATELY 14" LONG.
5. 10" DUCTILE IRON PIPE SPOOL, PE X PE, LENGTH AS REQUIRED.
6. 10" 45 DEGREE BEND, DUCTILE IRON SHORT BODY, MJ ENDS.
7. 10" GATE VALVE, MJ ENDS. INCLUDE VALVE BOX AND CONCRETE COLLAR, SEE DETAIL ON SHEET W-504.
8. 10" PIPE COUPLING. CONNECT TO EXISTING PIPE.
9. CONSTRUCT RETAINING WALLS, SEE SHEET C-102.
10. CONSTRUCT STORM DRAIN PIPE, SEE SHEET C-103.
11. EXISTING RETAINING WALL.
12. CONSTRUCT CONCRETE PAD FOR TRANSFORMER, SEE SHEET E-101.

SEE SHEET W-201 FOR EXISTING PLAN AND PROFILE INFORMATION.



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**PLAN OF YARD PIPING MODIFICATIONS TO BOOSTER STATION**  
SCALE: 1"=5'-0"



**PROFILE OF YARD PIPING MODIFICATIONS TO BOOSTER STATION**  
SCALE: 1"=5'-0"

| REV. NO. | REV. DATE | DESCRIPTION |
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| CHECKED BY:                | KM            |
| PRIME DESIGN PROFESSIONAL: | KEN MILLER    |
| PROJECT DATE:              | FEBRUARY 2025 |

**PLAN AND PROFILE OF YARD PIPING MODIFICATIONS,  
BOOSTER STATION INLET PIPING**  
  
**BAYO NON-POTABLE BOOSTER REHABILITATION**  
 LOS ALAMOS COUNTY  
 LOS ALAMOS COUNTY, NEW MEXICO

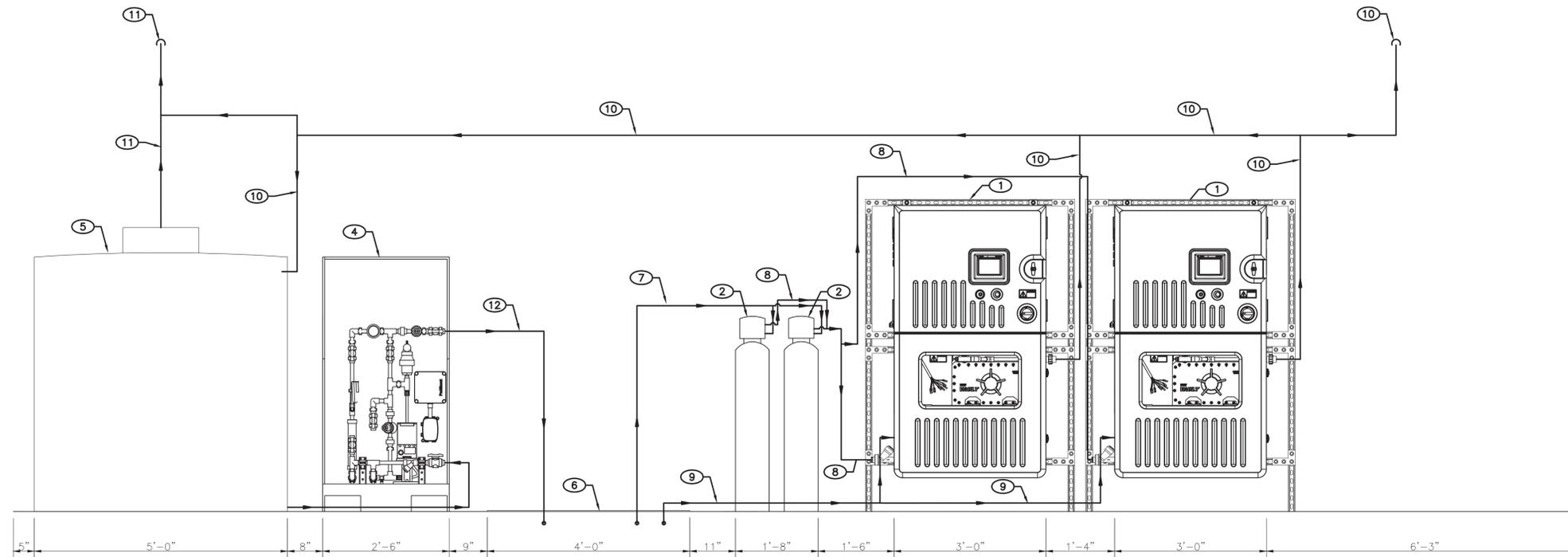
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**GENERAL NOTES**

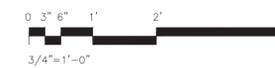
1. SEE SHEET W-102 FOR REMOVAL AND MODIFICATION PLAN.
2. SEE SHEET W-103 FOR MIOX PLAN LAYOUT.
3. SEE ELECTRICAL SHEETS FOR ELECTRICAL REMOVAL AND MODIFICATIONS PLANS.
4. SEE ARCHITECTURE SHEETS FOR ARCHITECTURAL REMOVAL AND MODIFICATIONS PLANS.

**KEYED NOTES**

1. NEW SODIUM HYPOCHLORITE ON-SITE GENERATOR MOUNTED ON EXISTING WALL. SEE SECTION 46 33 13 FOR DETAILS.
2. NEW WATER SOFTENER. SEE SECTION 46 33 13 FOR DETAILS.
3. NEW HYDROGEN GAS SENSOR TO BE MOUNTED TO OVERHEAD CEILING BEAM, TO BE PROVIDED BY ON-SITE GENERATOR MANUFACTURER. SEE SECTION 46 33 13 FOR DETAILS.
4. MIXED OXIDANT DOSING SKID, TO BE PROVIDED BY ON-SITE GENERATOR MANUFACTURER. SEE SECTION 46 33 13 FOR DETAILS.
5. EXISTING SODIUM HYPOCHLORITE STORAGE TANK TO REMAIN IN PLACE. INSTALL LEVEL SENSOR ON TANK PER ELECTRICAL DRAWINGS AND SECTION 46 33 13 FOR DETAILS.
6. EXISTING METAL FLOOR PLATE TO REMAIN IN PLACE.
7. NEW POTABLE WATER INLET LINE.
8. NEW 1/2" SOFTENED WATER OUTLET LINE TO MIXED OXIDANT UNITS.
9. NEW BRINE INLET LINE TO MIXED OXIDANT UNITS.
10. NEW 3/4" PVC MIXED OXIDANT OUTLET LINE TO EXISTING TANK.
11. NEW 3/4" PVC HYDROGEN VENT PIPING. EXISTING WALL PENETRATIONS TO BE REUSED FOR PIPING TO EXTERIOR.
12. NEW 3/4" PVC DOSING SKID DISCHARGE PIPING TO INJECTION POINT IN YARD PIPING.



**DISINFECTION SYSTEM WALL LAYOUT**  
SCALE: 3/4"=1'-0"



NOTE: ALL WORK SHOWN ON THIS SHEET IS ADDITIVE ALTERNATE NO.1

**MOLZENCORBIN**

2701 Miles Road SE  
Albuquerque, New Mexico 87106  
505 242 5700 office  
505 242 0673 fax  
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

**NUMERIC SCALE CONFIRMATION**  
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES  
IF THIS BAR EQUALS ONE INCH



| REV. NO. | REV. DATE | DESCRIPTION |
|----------|-----------|-------------|
|          |           |             |
|          |           |             |
|          |           |             |
|          |           |             |

|                            |               |
|----------------------------|---------------|
| PROJECT NUMBER:            | LAC241-11     |
| DESIGNED BY:               | REM           |
| DRAWN BY:                  | REM           |
| CHECKED BY:                | KM            |
| PRIME DESIGN PROFESSIONAL: | KEN MULLER    |
| PROJECT DATE:              | FEBRUARY 2025 |

DISINFECTION SYSTEM ELEVATION PLAN

BAYO NON-POTABLE BOOSTER REHABILITATION  
LOS ALAMOS COUNTY  
LOS ALAMOS COUNTY, NEW MEXICO

**W-301**

SHEET 18 / 32

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT

**NUMERIC SCALE CONFIRMATION**  
 DRAWINGS ARE DEPICTED AT INTENDED  
 NUMERIC SCALES  
 IF THIS BAR EQUALS ONE INCH



**P1 BUTTERFLY VALVE LOCATIONS**



**P2 WEST BUTTERFLY VALVE**

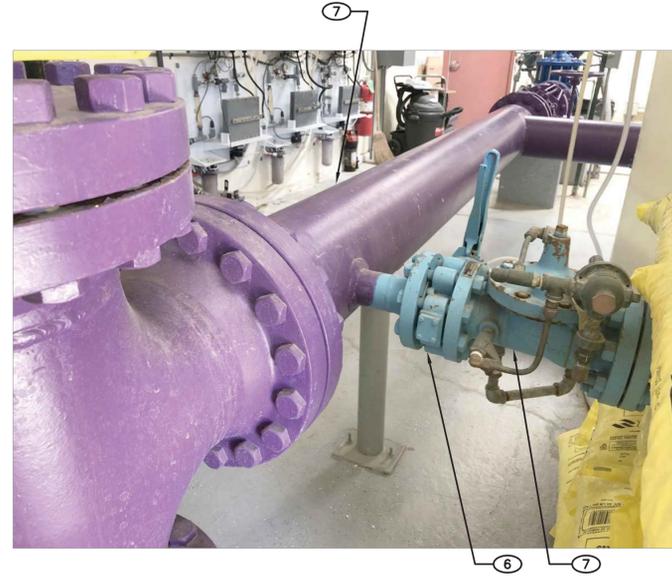


**P3 EAST BUTTERFLY VALVE**

**EXISTING PUMP 8" DISCHARGE LINE WITH TWO BUTTERFLY VALVES. REMOVE BUTTERFLY VALVES AND REPLACE WITH HANDWHEEL BUTTERFLY VALVES**



**P4 PICTURE LOCATION**



**P5 PICTURE LOCATION**

**EXISTING 2" PRESSURE RELIEF VALVE AND BUTTERFLY VALVE. REMOVE PRESSURE RELIEF VALVE AND REPLACE WITH SURGE ANTICIPATER/PRESSURE RELIEF VALVE**

**PICTURE NUMBER**

**KEYED NOTES**

- P1** 1. 8" BUTTERFLY VALVE AND HANDWHEEL OPERATOR LOCATIONS
- P1** 2. 8" PUMP DISCHARGE PIPING LAYOUT
- P2** 3. ENLARGED VIEW OF EXISTING WEST BUTTERFLY VALVE AND HANDWHEEL OPERATOR
- P3** 4. ENLARGED VIEW OF EXISTING EAST BUTTERFLY VALVE AND HANDWHEEL OPERATOR
- P4 P5** 5. 2.5" PRESSURE REDUCING VALVE WITH PLUGGED ON DISCHARGE END
- P4 P5** 6. 2.5" BUTTERFLY VALVE
- P4 P5** 7. 10" PUMP DISCHARGE

|                            |               |             |
|----------------------------|---------------|-------------|
| REV. NO.                   | REV. DATE     | DESCRIPTION |
| PROJECT NUMBER:            | LAC241-11     | ACC         |
| DESIGNED BY:               |               | DJ          |
| DRAWN BY:                  |               | KM          |
| CHECKED BY:                |               |             |
| PRIME DESIGN PROFESSIONAL: | KEN MILLER    |             |
| PROJECT DATE:              | FEBRUARY 2025 |             |

BOOSTER STATION INTERIOR PICTURES -  
 PUMP FORCEMAIN DETAILS I

BAYO NON-POTABLE BOOSTER REHABILITATION  
 LOS ALAMOS COUNTY  
 LOS ALAMOS COUNTY, NEW MEXICO

DATE: 7/17/2025 4:52 PM  
 DATE: 7/17/2025 11:21 AM  
 PROJECT: BAYO NON-POTABLE BOOSTER REHABILITATION (DWG) W-501

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT

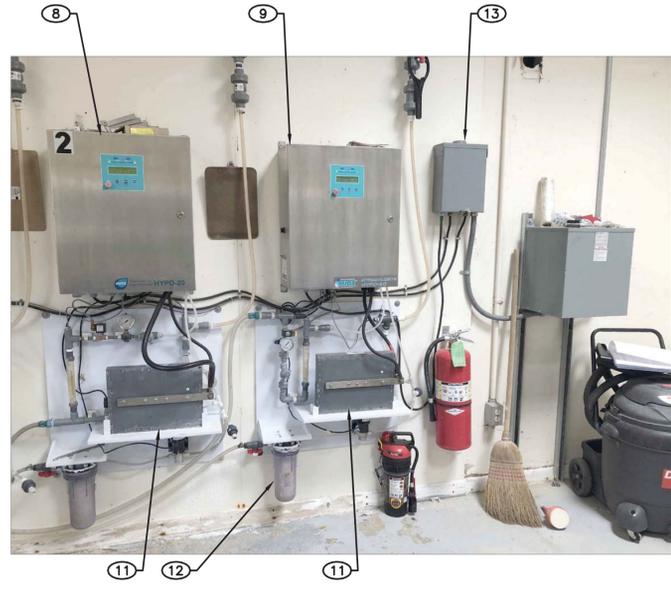
**NUMERIC SCALE CONFIRMATION**  
 DRAWINGS ARE DEPICTED AT INTENDED  
 NUMERIC SCALES  
 IF THIS BAR EQUALS ONE INCH



**P9** EXISTING HYPOCHLORITE SYSTEM – LEFT SIDE



**P10** EXISTING HYPOCHLORITE SYSTEM – CENTER



**P11** EXISTING HYPOCHLORITE SYSTEM – RIGHT SIDE

EXISTING MIOX HYPOCHLORITE SYSTEM MOUNTED ON WEST WALL (SOUTH WALL TO NORTH WALL) REMOVE MIOX SYSTEM

- | PICTURE NUMBER        | KEYED NOTES  |
|-----------------------|--|
| <b>P9</b>             | 1. HYPOCHLORITE SOLUTION TANK                          |
| <b>P9</b>             | 2. WATER SOFTENER                                      |
| <b>P9</b>             | 3. HACH HARDNESS MONITOR                               |
| <b>P9</b>             | *4. WATER DISINFECTION UNIT NO. 3 – CONTROL PANEL      |
| <b>P9</b>             | *5. ELECTROLYSIS CELL                                  |
| <b>P9</b>             | *6. BRINE FILTER                                       |
| <b>P10</b>            | *7. WATER DISINFECTION UNIT NO.3 – CONTROL PANEL       |
| <b>P10</b> <b>P11</b> | *8. WATER DISINFECTION UNIT NO.2 – CONTROL PANEL       |
| <b>P10</b> <b>P11</b> | *9. WATER DISINFECTION UNIT NO.1 – CONTROL PANEL       |
| <b>P10</b>            | *10. HYPOCHLORITE SUPPLY TO HYPOCHLORITE SOLUTION TANK |
| <b>P10</b> <b>P11</b> | *11. ELECTROLYSIS CELL                                 |
| <b>P10</b> <b>P11</b> | *12. BRINE FILTER                                      |
| <b>P11</b>            | 13. POWER SUPPLY PANEL                                 |
- \*GENERAL NOTES**
- \*A. EXISTING EQUIPMENT TO BE REMOVED BY OWNER'S WATER PRODUCTION GROUP.
  - \*B. POWER DISCONNECT WILL BE DONE BY OWNER'S ELECTRICAL GROUP. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE.

|                            |               |             |
|----------------------------|---------------|-------------|
| REV. NO.                   | REV. DATE     | DESCRIPTION |
| PROJECT NUMBER:            | LAC241-11     | ACC         |
| DESIGNED BY:               | DJ            | KM          |
| DRAWN BY:                  | KM            |             |
| CHECKED BY:                |               |             |
| PRIME DESIGN PROFESSIONAL: | KEN MILLER    |             |
| PROJECT DATE:              | FEBRUARY 2025 |             |

**BOOSTER STATION INTERIOR PICTURES -  
 HYPOCHLORITE DISINFECTION SYSTEM DETAILS III**  
  
**BAYO NON-POTABLE BOOSTER REHABILITATION  
 LOS ALAMOS COUNTY  
 LOS ALAMOS COUNTY, NEW MEXICO**

