

# COLORADO DEPARTMENT OF CORRECTIONS - ECCPC

## NON-POTABLE WATER SYSTEM - PHASE 1

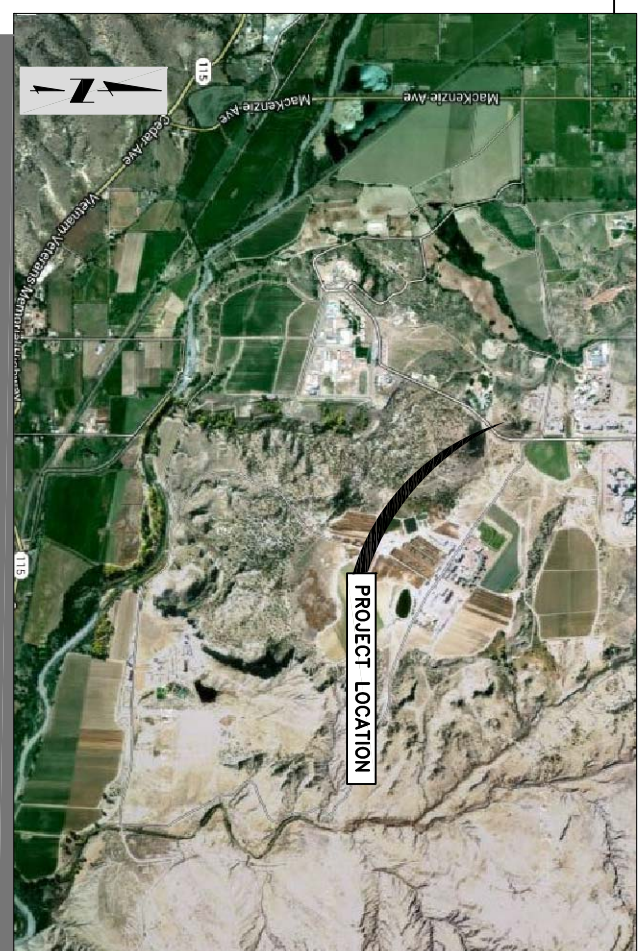
### 35,000 GALLON TANK REHAB/REPAIR AND DISTRIBUTION SYSTEM

#### FREMONT COUNTY, COLORADO

#### APRIL, 2014

### GENERAL NOTES

1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. COMPLETION REQUIREMENTS SHALL BE 95% MODIFIED PROCTOR AS DETERMINED BY ASTM D692, UNLESS OTHERWISE APPROVED BY THE ENGINEER OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION.
2. CONTRACTOR SHALL ENSURE THAT ALL SURFACE DRAINAGE PATTERNS ARE RESTORED TO ORIGINAL OR IMPROVED CONDITIONS.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOC/CCI, WHO RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
4. ALL DUCTILE IRON PIPE INCLUDING FITTINGS AND VALVES WILL BE WRAPPED.
5. PVC WATER MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE. THE TRACER WIRE SHALL TERMINATE IN A VALVE BOX.
6. ALL BURIED FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON, UNLESS SHOWN OTHERWISE ON THE PLANS. MECHANICAL JOINTS MUST BE MEGALUGS OR EQUAL.
7. THE CONTRACTOR IS REQUIRED TO NOTIFY MIKE WOLKING (719-269-5772), A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
8. THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL THE -INS. CONTRACTOR SHALL NOTIFY THE DOC AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
9. ALL BENS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION BY CONTRACTOR.
10. THE CONTRACTOR SHALL, AT HIS EXPENSE, SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY THE CONTRACTOR AT FULL COST OF LABOR AND MATERIALS TO CONTRACTOR.
11. ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY THE ENGINEER.
12. THE CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, LANDSCAPING FEATURES, FENCES, AND/OR CURB AND GUTTER THAT MAY BE CAUSED DURING CONSTRUCTION.
13. CONTRACTOR SHALL ENSURE THAT ALL SURFACE DRAINAGE PATTERNS ARE RESTORED TO ORIGINAL CONDITIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR ANY Dewatering Efforts Required for Construction Purposes. ANY Dewatering Efforts Initiated Shall be Performed Continuously Until Project Completion or Such Time as the Engineer Approves Otherwise.
15. ANY PERMITS REQUIRED FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES, FEES, AND TAXES AND GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE CONTRACT. ANY ADDITIONAL BONDING, INSURANCE OR TRAFFIC CONTROL REQUIREMENTS REQUIRED BY THE PERMIT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE INCLUDED IN THE WORK AT NO EXTRA COST TO THE PROJECT.
16. TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION. MAINTENANCE OF ONSITE DRAINAGE AND EROSION CONTROL FACILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. STORM INLETS SHALL BE PROTECTED DURING CONSTRUCTION.
17. THE TYPE, SIZE, LOCATION AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE CONSTRUCTION DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK PRIOR TO COMMENCING ANY NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE OF ANY UNKNOWN UNDERGROUND UTILITIES.
18. THE BIDDER IS EXPECTED TO EXAMINE THE SITE OF THE PROPOSED WORK, THE PROPOSAL, PLANS, SPECIFICATIONS, SURFACE EXISTING CONDITIONS, STAKE PROVISIONS, AND CONTRACT TERMS, BEFORE SUBMITTING A PROPOSAL. THE BIDDER SHALL BE CONSIDERED TO HAVE CONDUCTED A VISUAL SURVEY OF THE SITE. THE BIDDER HAS MADE HIS EXAMINATION AND IS AWARE OF THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK ACCORDING TO THE CONTRACT.
19. WATER SERVICES FROM THE MAIN TO BE LOCATED AND INSTALLED BY OTHERS (CCI).



**PROJECT MAP**  
N.T.S.

|  |   |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
|--|---|-------|----------------------|---------|-------------------|-----|----------|--------|-----------------|--------|---------------|------|----------------|--------|------------------------------|-------|-------|
| <p style="text-align: center;"><b>PRE-EXCAVATION CHECKLIST</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gas and Other Utility Lines Shown on Construction Plans</li> <li><input type="checkbox"/> Utility Notification Center of Colorado (UNCC)-Call at Least two (2) Business Days Ahead-1-800-922-1987</li> <li><input type="checkbox"/> Utilities Located &amp; Marked on the Ground</li> <li><input type="checkbox"/> Employees Briefed on Marking and Color Codes*</li> <li><input type="checkbox"/> Employees Trained on Excavation and Safety Procedures for Natural Gas Lines</li> <li><input type="checkbox"/> When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand-Digging</li> </ul> | <p style="text-align: center;"><b>COLOR CODE</b></p> <p style="text-align: center;"><small>FOR MARKING UNDERGROUND UTILITY LINES</small></p> <table style="width: 100%; text-align: center; font-size: small;"> <tr><td style="width: 20px;">WHITE</td><td>PROPOSED WATER MAINS</td></tr> <tr><td>MAGENTA</td><td>TEMPORARY FURNACE</td></tr> <tr><td>RED</td><td>ELECTRIC</td></tr> <tr><td>YELLOW</td><td>GAS, OIL, STEAM</td></tr> <tr><td>ORANGE</td><td>COMMUNICATION</td></tr> <tr><td>BLUE</td><td>PORTABLE WATER</td></tr> <tr><td>PURPLE</td><td>INDUSTRIAL WASTE WATER LINES</td></tr> <tr><td>GREEN</td><td>SEWER</td></tr> </table> <p style="text-align: center;"><b>UNCC</b><br/><small>UTILITY NOTIFICATION CENTER OF COLORADO</small></p> <p style="text-align: center;"><b>3 Days Before You Dig:</b><br/>Call: 1-800-922-1987<br/>Web: www.uncc.org<br/>Click: www.uncc.org</p> | WHITE | PROPOSED WATER MAINS | MAGENTA | TEMPORARY FURNACE | RED | ELECTRIC | YELLOW | GAS, OIL, STEAM | ORANGE | COMMUNICATION | BLUE | PORTABLE WATER | PURPLE | INDUSTRIAL WASTE WATER LINES | GREEN | SEWER |
| WHITE  | PROPOSED WATER MAINS  |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| MAGENTA  | TEMPORARY FURNACE   |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| RED  | ELECTRIC  |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| YELLOW   | GAS, OIL, STEAM   |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| ORANGE   | COMMUNICATION   |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| BLUE   | PORTABLE WATER  |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| PURPLE   | INDUSTRIAL WASTE WATER LINES  |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |
| GREEN  | SEWER   |       |                      |         |                   |     |          |        |                 |        |               |      |                |        |                              |       |       |

| SHEET NUMBER | DESCRIPTION                                      |
|--------------|--|
| 1            | COVER SHEET                                      |
| 2            | OVERALL SITE PLAN                                |
| 3            | DISTRIBUTION LINE - SEGMENT 1                    |
| 4            | DISTRIBUTION LINE - SEGMENT 2                    |
| 5            | DISTRIBUTION LINE - SEGMENT 3                    |
| 6            | DISTRIBUTION LINE - SEGMENT 4                    |
| 7            | TANK SITE PLAN                                   |
| 8            | TANK SECTION                                     |
| 9            | WATER LINE CONNECTION DETAILS                    |
| 10           | WATER LINE CONNECTION DETAILS STRUCTURAL DETAILS |

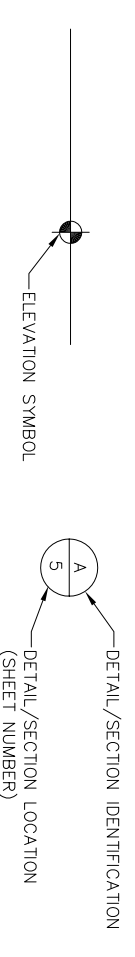
### PARTICIPANTS

|  |   |
|--|---|
| <p style="text-align: center;"><i>OWNER</i></p> <p style="text-align: center;">COLORADO DEPARTMENT OF CORRECTIONS<br/>P.O. BOX 1010<br/>CANON CITY, CO 81212<br/>PHONE: (719) 269-5772</p> | <p style="text-align: center;"><i>DESIGN ENGINEER</i></p> <p style="text-align: center;">JDS-HYDRO CONSULTANTS, INC.<br/>545 E. PIKES PEAK AVE., SUITE 300<br/>COLORADO SPRINGS, CO 80903<br/>CONTACT: MARIO DIPASQUALE<br/>PHONE: (719) 227-0072</p> |
|--|---|

### LEGEND



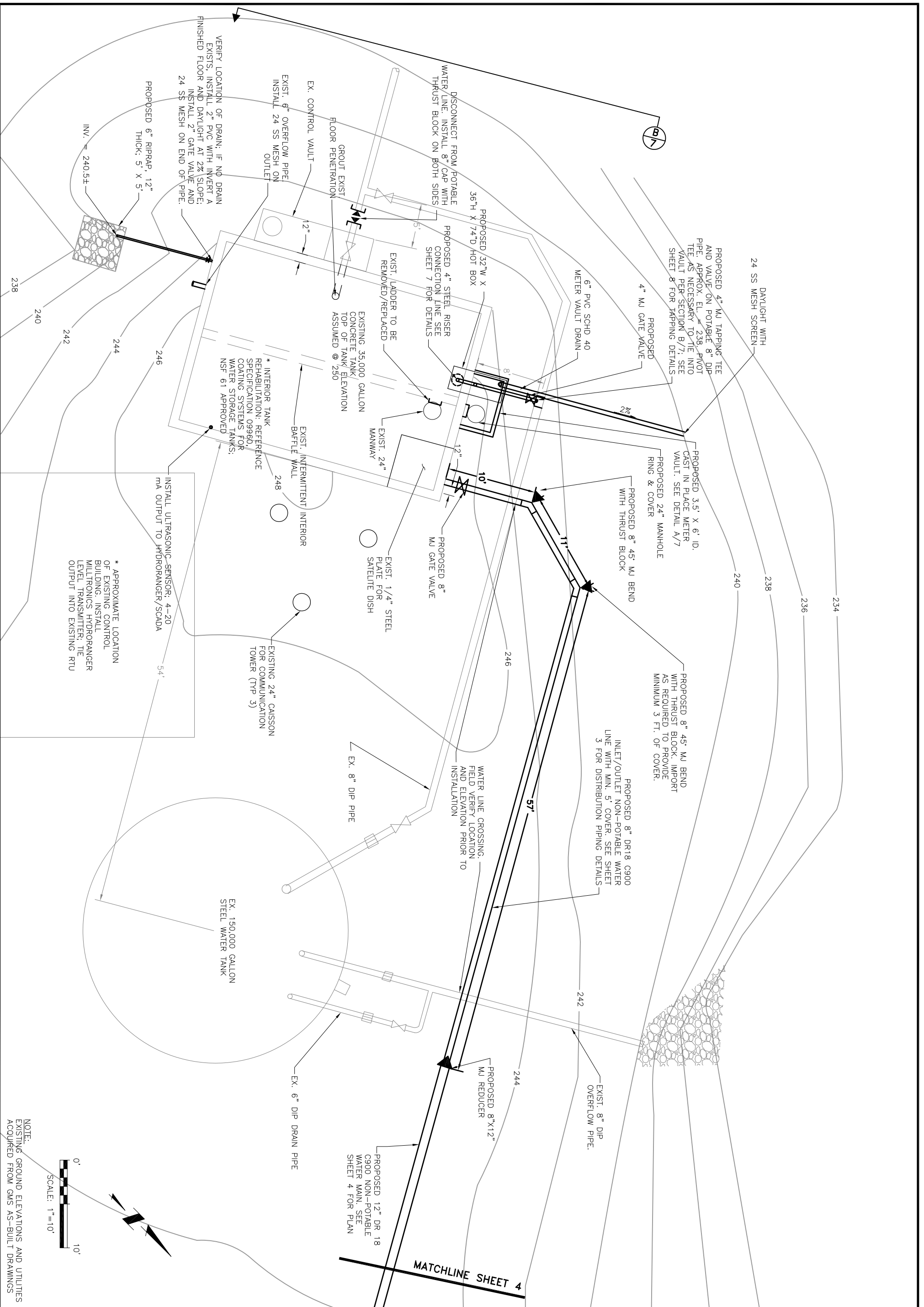
### DRAWING SYMBOLS



### SIGNATURE BLOCK

|                                    |            |
|------------------------------------|------------|
| APPROVED FOR CONSTRUCTION _____    | DATE _____ |
| COLORADO DEPARTMENT OF CORRECTIONS |            |

**JDS-HYDRO** CONSULTANTS, INC.  
545 East Pikes Peak Avenue, Suite 300  
Colorado Springs, Colorado 80903  
(719) 227-0072



NOTE:  
EXISTING GROUND ELEVATIONS AND UTILITIES  
ACQUIRED FROM GMS AS-BUILT DRAWINGS

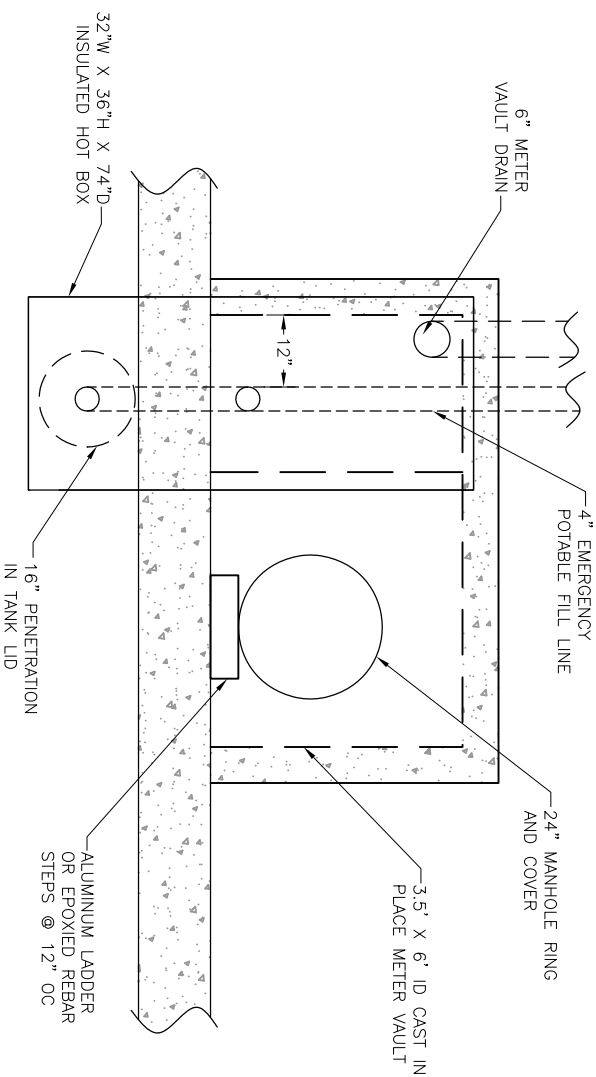


|              |          |
|--------------|----------|
| Project No.: | 229.01   |
| Scale:       | AS SHOWN |
| Date:        | 06/27/13 |
| Design:      | MLD      |
| Drawn:       | TAG      |
| Check:       | JPM      |
| Revised:     |          |
|              |          |
|              |          |
|              |          |
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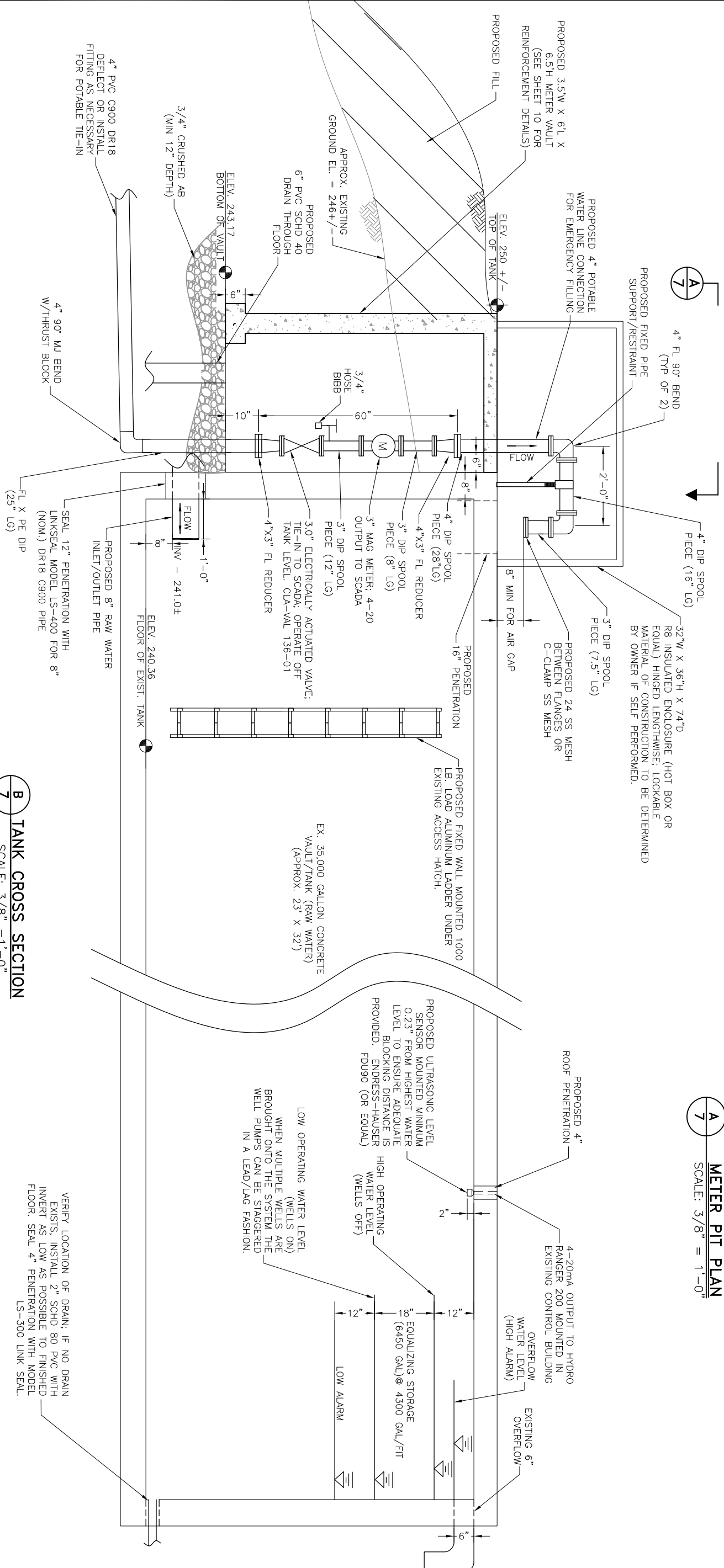
**COLORADO DEPARTMENT OF CORRECTIONS – ECCPC**  
**NON-POTABLE WATER SYSTEM – PHASE 1**  
**35,000 GALLON TANK REHAB/REPAIR AND DISTRIBUTION SYSTEM**  
**TANK SITE PLAN**


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NOTE:  
 VAULT TO BE EQUIPPED WITH A GFI  
 PROTECTED 500 WATT PUMP HOUSE HEATER  
 (DAYTON OR EQUAL). LOCATION TO BE FIELD  
 VERIFIED BY OWNER. INSTALL PER  
 MANUFACTURE RECOMMENDATIONS.



**A**  
**METER PIT PLAN**  
 SCALE: 3/8" = 1'-0"



**B**  
**TANK CROSS SECTION**  
 SCALE: 3/8" = 1'-0"

COLORADO DEPARTMENT OF CORRECTIONS – ECCPC  
 NON-POTABLE WATER SYSTEM – PHASE 1  
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 TANK SECTION

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