KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATERLINE MODIFICATION PROJECT
ISSUED FOR CONSTRUCTION

WARNING
1. IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

LOCATION MAP
VICINITY MAP
SURVEY CONTROL POINTS PLAN

SURVEY CONTROL POINT SCHEDULE

<table>
<thead>
<tr>
<th>CONTROL POINT</th>
<th>MONUMENT ID</th>
<th>NORTHING</th>
<th>EASTING</th>
<th>ELEVATION</th>
<th>GROUP</th>
<th>TYPE</th>
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<tr>
<td>CPS 1</td>
<td>WAP-201</td>
<td>2602481.28</td>
<td>6461785.59</td>
<td>2362.79</td>
<td>QSI</td>
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<td>CPS 2</td>
<td>GMA-203</td>
<td>2599140.91</td>
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<td>GMA-205</td>
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<td>6443500.04</td>
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<td>2587307.60</td>
<td>6441471.45</td>
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SURVEY CONTROL POINT SCHEDULE NOTES:
1. HORIZONTAL DATUM: U.S. NAVD 88 CALIFORNIA STATE PLANE ZONE 2 (FEET)
2. VERTICAL DATUM: NAVD 88 / NAVD 88 GEOID 12 B.
### Sheet Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tr>
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### Site Plan Line Types

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<tr>
<td>OVERHEAD POWER</td>
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<tr>
<td>MAJOR CONTOUR</td>
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<tr>
<td>MINOR CONTOUR</td>
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<td>EDGE OF WATERLINE</td>
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<td>TOE OF SLOPE</td>
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<tr>
<td>TOP OF BANK</td>
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<tr>
<td>SANITARY SEWER</td>
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<tr>
<td>STORM DRAIN</td>
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<td>EDGE OF PAVEMENT</td>
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<td>EDGE OF GRAVEL</td>
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<td>WATTLE</td>
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<td>CONSTRUCTION FENCE</td>
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<td>GAS LINE</td>
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<td>IRRIGATION LINE</td>
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<td>WATERLINE</td>
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<td>COMMUNICATION LINE</td>
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<td>OVERHEAD ELECTRICAL/POWER LINE</td>
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<td>UNDERGROUND ELECTRICAL</td>
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<tr>
<td>Y</td>
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<td>TREE PROTECTION FENCE</td>
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<td>COFFERDAM</td>
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<td>WETLAND</td>
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### Site Plan Symbols

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<thead>
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<tr>
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<td>ELECTRIC BOX</td>
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<td>STORM DRAIN MANHOLE</td>
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<td>FIRE HYDRANT</td>
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<td>YARD HYDRANT</td>
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<td>SURVEY CONTROL POINT, AS NOTED</td>
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<td>SECTION CORNER</td>
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<tr>
<td>BENCH MARK</td>
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<tr>
<td>EXISTING MONITOR STATION</td>
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<tr>
<td>STATE PLANE COORDINATE MARKER</td>
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<td>EXISTING FENCE</td>
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<tr>
<td>EXISTING BUILDING, STRUCTURES</td>
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<td>EXISTING TREE LINE</td>
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<td>EXISTING SECTION CORNER, MONUMENT FOUND AS DESCRIBED</td>
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<tr>
<td>EXISTING 5/8&quot; REBAR CONTROL POINT MONUMENT, SORING LOCATION</td>
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<tr>
<td>EXISTING HOSE BIB</td>
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<tr>
<td>EXISTING PORTABLE IRRIGATION WATER PUMP</td>
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<tr>
<td>EXISTING 4&quot; WATER WELL</td>
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<td>EXISTING ELECTRICAL OUTLET</td>
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<td>EXISTING POWER POLE</td>
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<td>EXISTING TELEPHONE PEDESTAL</td>
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### Architectural Symbols

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<tr>
<td>ELEVATIONS (SHEET NUMBER)</td>
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<td>ELEVATIONS</td>
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<td>KEYNOTE (NUMBER)</td>
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<td>WINDOW IDENTIFICATION</td>
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<td>WINDOW TYPE (LETTER OR NUMBER)</td>
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<td>DATUM POINT</td>
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<td>CONTROL POINT OR WORK POINT</td>
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<tr>
<td>TYPE NUMBER</td>
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<tr>
<td>ASSEMBLY TAG (WALL, FLOOR, ROOF)</td>
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### Mechanical Symbols

<table>
<thead>
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<th>Symbol</th>
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<tr>
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<tr>
<td>VALVE IDENTIFICATION</td>
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<tr>
<td>VALVE LETTER (WHERE APPLICABLE)</td>
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### Miscellaneous Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
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<tr>
<td>CHANGE OF FIRE MTL</td>
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<tr>
<td>END OF PIPE</td>
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<tr>
<td>CENTERLINE</td>
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<tr>
<td>DIA.</td>
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<tr>
<td>ANGLE</td>
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<tr>
<td>PLATE</td>
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</tr>
<tr>
<td>PLUG/PLUS</td>
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<tr>
<td>BOX</td>
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</tr>
</tbody>
</table>

### General Notes

1. All symbols are not necessarily used. This is a standard drawing showing common symbols on this project.
2. Screening or shading of work is used to indicate existing components or to de-emphasize proposed improvements to highlight selected trade work. Refer to context of each symbol for usage.
OVERALL SITE PLAN

SCALE: 1" = 100'

OVERALL PLAN AND PROJECT CONTROL

SURVEY NOTES:
1. LEARN SURVEY PROVIDED BY KRRC ON NOVEMBER 2020. CONTRACTOR SHALL CONFIRM AND VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.
2. THE HORIZONTAL DATUM FOR THE PROJECT IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.

MAJOR CONSTRUCTION ITEMS:

A. CONSTRUCT NEW PIPELINE.
B. SUPPORT THE PIPELINE AT THE FALL CREEK CULVERT DURING CONSTRUCTION AND REMOVAL.
C. SUPPORT THE PIPELINE ALONG THE NEW DAGGETT ROAD BRIDGE SEE DAGGETT BRIDGE DESIGN PACKAGE FOR PIPELINE SUPPORT.
D. DEMO NEW EXISTING 24" DIAMETER WATERLINE AFTER NEW PIPELINE IS OPERABLE AS APPROVED BY OWNER.
E. RETAIN AND PROTECT EXISTING CATHODIC PROTECTION SYSTEM. CONTRACTOR SHALL CONNECT NEW PIPELINE INTO EXISTING CATHODIC PROTECTION SYSTEM.
F. CONNECT TO EXISTING WATERLINE. CONTRACTOR SHALL SUBMIT OUTAGE REQUEST TO OWNER AND ENGINEER.

PROPOSED ENGINEER CONSTRUCTION SEQUENCE:

1. CONSTRUCT NEW DAGGETT BRIDGE AND NEW YREKA WATERLINE SUPPORTED BELOW THE DAGGETT BRIDGE DECK (SEE DRAWING C105). THE DAGGETT BRIDGE DESIGN AND PIPE SUPPORT DRAWINGS ARE NOT INCLUDED IN THIS PACKAGE. PLEASE REFER TO THE DAGGETT BRIDGE DESIGN PACKAGE PREPARED BY MCMILLEN JACOBS.
2. CONSTRUCT NEW 24" OR 25" BURIED PIPELINE UPSTREAM AND DOWNSTREAM OF DAGGETT BRIDGE CROSSING EXCLUDING CONNECTIONS TO THE EXISTING YREKA WATERLINE.
3. PERFORM 48 HR PRESSURE TEST NEW PIPELINE AT 375 PSIG WITH BLIND FLANGES ON EACH END OF PIPELINE. SEE SPECIFICATION SECTION 01 74 30.
4. CONNECT TO EXISTING WATERLINE AT UPSTREAM AND DOWNSTREAM CONNECTION POINTS (SEE DWG C200 & C201).
5. START UP THE NEW WATERLINE SYSTEM AND OPERATE. INSURE SYSTEM OPERATING PROPERLY FOR MINIMUM 30 DAYS.
6. PERFORM DEMOLITION AND REMOVAL OF EXISTING RIVER CROSSING PIPELINE (SEE DRAWING D101).
1. Contractor shall coordinate layout and staging areas with owner.
2. Contractor shall develop a detailed access plan in accordance with specifications and submit for review and approval by owner prior to initiating construction activities.
3. Contractor shall be responsible for and shall be at the discretion of the contractor, subject to approval by the owner and engineer.
4. The contractor shall make its own arrangements for any necessary off-site storage or shop areas as necessary for the proper execution of the work.
5. The contractor shall develop and submit to the engineer a plan for storing and disposing of hazardous materials.
6. The contractor shall restore the staging areas at project completion to pre-construction conditions.

CONTRACTOR STAGING AREA PLAN

SCALE: 1"=100'
### VALVE SCHEDULE

<table>
<thead>
<tr>
<th>VALVE NUMBER</th>
<th>LOCATION AND SERVICE</th>
<th>BODY &amp; DISC MATERIALS</th>
<th>VALVE TYPE, ENDS</th>
<th>DIAMETER (IN)</th>
<th>MAX. WORKING PRESSURE (PSI)</th>
<th>VALVE SHAFT/STEM AND HARDWARE</th>
<th>ACTUATOR TYPE, (NORMAL VALUE POSITION)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-01</td>
<td>RW ISOLATION, 45-60F</td>
<td>CARBON STEEL (PIPE COATED AND INOX, DUCTILE IRON/PIPE COATED AND LINED, OR ASTM A350 GRIPPER STAINLESS STEEL)</td>
<td>HIGH PERFORMANCE BUTTERFLY VALVE, AMERICAN B36.19M CLASS 300 FLANGE</td>
<td>24</td>
<td>360</td>
<td>SEE SPEC SECTION 43.25</td>
<td>BUTTERFLY VALVES</td>
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<tr>
<td>V-02</td>
<td>NOT USED</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>V-03</td>
<td>DRAIN PIPE/RW DRAIN, 45-60F</td>
<td>316 STAINLESS STEEL, CARBON STEEL OR DUCTILE IRON</td>
<td>HIGH PERFORMANCE BUTTERFLY VALVE, LUGGED DRILLING OR FLANGED</td>
<td>4</td>
<td>360</td>
<td>SEE SPEC SECTION 43.25</td>
<td>BUTTERFLY VALVES</td>
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<tr>
<td>V-04</td>
<td>DRAIN PIPE/RW DRAIN, 45-60F</td>
<td>316 STAINLESS STEEL, CARBON STEEL OR DUCTILE IRON</td>
<td>HIGH PERFORMANCE BUTTERFLY VALVE, LUGGED DRILLING OR FLANGED</td>
<td>4</td>
<td>360</td>
<td>SEE SPEC SECTION 43.25</td>
<td>BUTTERFLY VALVES</td>
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<td>V-05</td>
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<td>4</td>
<td>360</td>
<td>SEE SPEC SECTION 43.25</td>
<td>BUTTERFLY VALVES</td>
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<tr>
<td>AV-01</td>
<td>AIR &amp; VAC COMBINATION</td>
<td>DUCTILE IRON (VALVE SHALL MIST PIPING CL582)</td>
<td>3&quot; COMBINATION AIR RELEASE VALVE, 2&quot; NPT INLET/OUTLET</td>
<td>3</td>
<td>360</td>
<td>SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF VRS 306 EXPOXY</td>
<td>WORM STICK/STEM WITH ROTARY OPERATOR (CLOSING)</td>
</tr>
<tr>
<td>AV-02</td>
<td>AIR &amp; VAC COMBINATION</td>
<td>DUCTILE IRON (VALVE SHALL MIST PIPING CL582)</td>
<td>3&quot; COMBINATION AIR RELEASE VALVE, 2&quot; NPT INLET/OUTLET</td>
<td>3</td>
<td>360</td>
<td>SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF VRS 306 EXPOXY</td>
<td>WORM STICK/STEM WITH ROTARY OPERATOR (CLOSING)</td>
</tr>
<tr>
<td>AV-03</td>
<td>AIR &amp; VAC COMBINATION</td>
<td>DUCTILE IRON/ THERMAL INSULATION ACET</td>
<td>3&quot; COMBINATION AIR RELEASE VALVE, 2&quot; NPT INLET/OUTLET</td>
<td>3</td>
<td>360</td>
<td>SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF VRS 306 EXPOXY</td>
<td>WORM STICK/STEM WITH ROTARY OPERATOR (CLOSING)</td>
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<td>AV-04</td>
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</tr>
</tbody>
</table>

### Notes
- **NOTES:**
  - A. PIPE SIZE DESIGNATIONS SHALL SHOW ZERO LEAKAGE.
  - B. DRAIN AND SEWER PIPE SHALL SHOW LEAKAGE.
  - C. PIPES 5" AND LARGER SHALL SHOW A LEAKAGE OF NOT MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER FOR BURIED PIPE.
  - D. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - E. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - F. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - G. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - H. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - I. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - J. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - K. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - L. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - M. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - N. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - O. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
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  - Q. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - R. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - S. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - T. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - U. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - V. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - W. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - X. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - Y. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
  - Z. ALL PIPE MATERIAL GROUP NUMBER IS INDICATED ON A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE TYPICAL DESIGNATIONS FOR A GIVEN FLUID SERVICE.
### Yreka Waterline Modification Project
#### Yreka Pipeline

| Segment # | Option | Pipe Material Group No. | From Station # | To Station # | Length (ft) | Location | Steel Shell Outside Dia (inches) | Steel Shell Inside Dia (inches) | Min. Wall Thickness (inches) | Min. Required Steel Yield Stress (ksi) | Hydro Static Pressure (PSIG) | Min. Hydro-Static Test Press. (PSIG) | Pipe Joint Type | Inside Joint Weld Req'd? | Outside Joint Weld Req'd? | Restrained Joint? | Pipe Coating System | Pipe Lining System | Handhole Req'd? | Swabbing Req'd | Min. Required Stick Length (ft) |
|------------|--------|-------------------------|----------------|--------------|-------------|----------|---------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|--------------------------|----------------|-------------------|-----------------|----------------|------------------|----------------|----------------|--------------------------|
| 1          | A      | ASTM A53, Long. Weld    | 20+00          | 21+45        | 2,145       | SOUTH TIE IN LOCATION TO SOUTH EDGE OF BRIDGE | 24                           | 23.3                          | 0.3750                             | 36                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | YES              | YES             |
|            | B      | AWWA C200, Spiral Weld | 21+65          | 24+81        | 336         | BRIDGE CROSSING SOUTH EDGE OF BRIDGE TO NORTH EDGE OF BRIDGE | 25                           | 24.4                          | 0.3125                             | 42                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | NO               | YES             |
| 2          | A      | ASTM A53, Long. Weld    | 24+83          | 32+67        | 786         | NORTH EDGE OF BRIDGE TO NORTH TIE IN LOCATION | 25                           | 24.4                          | 0.3125                             | 42                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | YES              | YES             |

**NOTES:**
1. Contractor’s pipe supplier shall verify all exact station values with that of contract drawing plan & profiles and the approved shop drawings, & provide exact lengths as req’d.
2. Contractor’s pipe supplier shall verify req’d pipe wall thicknesses to meet all requirements of Spec Section 40.23 15 ASTM A53 & 33.11 11 AWWA C200. Wall thicknesses shall not be less than those shown in table.
3. Min. hydrostatic test pressures includes a 15 psi testing/surge allowance above the max. static pressure of section being tested. Hydrostatic test pressure shall be measured at the lowest section of the pipeline reach being tested. (See Spec Section 01 74 30 Pressure Pipeline Testing).

---

**Yreka Waterline Modification Project**

**Yreka Pipeline**

**Pipe Diameter & Wall Thickness Data**

<table>
<thead>
<tr>
<th>Pipe Diameter (inches)</th>
<th>Wall Thickness (inches)</th>
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<tbody>
<tr>
<td>24</td>
<td>0.3750</td>
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**Pipe Joint Data**

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<tr>
<th>Pipe Joint Type</th>
<th>Inside Joint Weld Req'd?</th>
<th>Outside Joint Weld Req'd?</th>
<th>Restrained Joint?</th>
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<tbody>
<tr>
<td>BUTT WELD</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>BUTT WELD</td>
<td>NO</td>
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<td>BUTT WELD</td>
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**Pipe Coating and Lining Data**

<table>
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<tr>
<th>Pipe Coating System</th>
<th>Handhole Req'd?</th>
<th>Swabbing Req'd</th>
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<tr>
<td>LIQUID EPOXY</td>
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<td>CONCRETE MORTAR</td>
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<td>LIQUID EPOXY</td>
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<tr>
<td>CONCRETE MORTAR</td>
<td>YES</td>
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**Segment #**

| Option | Pipe Material Group No. | From Station # | To Station # | Length (ft) | Location | Steel Shell Outside Dia (inches) | Steel Shell Inside Dia (inches) | Min. Wall Thickness (inches) | Min. Required Steel Yield Stress (ksi) | Hydro Static Pressure (PSIG) | Min. Hydro-Static Test Press. (PSIG) | Pipe Joint Type | Inside Joint Weld Req'd? | Outside Joint Weld Req'd? | Restrained Joint? | Pipe Coating System | Pipe Lining System | Handhole Req'd? | Swabbing Req'd | Min. Required Stick Length (ft) |
|--------|-------------------------|----------------|--------------|-------------|----------|---------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|--------------------------|----------------|-------------------|-----------------|----------------|------------------|----------------|----------------|--------------------------|
| 1      | A                      | ASTM A53, Long. Weld | 20+00        | 21+45       | 2,145     | SOUTH TIE IN LOCATION TO SOUTH EDGE OF BRIDGE | 24                           | 23.3                          | 0.3750                             | 36                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | YES              | YES             |
|        | B                      | AWWA C200, Spiral Weld | 21+65       | 24+81       | 336       | BRIDGE CROSSING SOUTH EDGE OF BRIDGE TO NORTH EDGE OF BRIDGE | 25                           | 24.4                          | 0.3125                             | 42                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | NO               | YES             |
| 2      | A                      | ASTM A53, Long. Weld | 24+83        | 32+67       | 786       | NORTH EDGE OF BRIDGE TO NORTH TIE IN LOCATION | 25                           | 24.4                          | 0.3125                             | 42                                    | 300                     | 375                     | BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703) | NO            | YES              | YES             |

**NOTES:**
1. Contractor’s pipe supplier shall verify all exact station values with that of contract drawing plan & profiles and the approved shop drawings, & provide exact lengths as req’d.
2. Contractor’s pipe supplier shall verify req’d pipe wall thicknesses to meet all requirements of Spec Section 40.23 15 ASTM A53 & 33.11 11 AWWA C200. Wall thicknesses shall not be less than those shown in table.
3. Min. hydrostatic test pressures includes a 15 psi testing/surge allowance above the max. static pressure of section being tested. Hydrostatic test pressure shall be measured at the lowest section of the pipeline reach being tested. (See Spec Section 01 74 30 Pressure Pipeline Testing).
GENERAL PROJECT NOTES:

1. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN DETAILED AND/OR DARK-LINED.
2. MAINTAIN, LOCATE, OR REPLACE SURVEY MONUMENTS, CONTROL POINTS, SURVEY MARKS WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENTS IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
3. VERTICAL DATUM BASED UPON NAVD 88 DATUM, ZONE 1 NORTH AMERICAN DATUM OF 1983, ELEVATION AS NAD 83 ELEVATION, (H) ELEVATION AS NAVD88 ELEVATION.
4. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEES PAVING, CONTRACTOR'S MATERIALS, MACHINERY, AND EQUIPMENT. SEE SHEET GC002. DESIGN SPECIFIC AREA LIMITS WITH OWNER.
5. QUESTIONS CONCERNING CONSTRUCTION ACTIVITIES TO REQUEST VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
6. PROVIDE MINIMUM 2.5 FT COVER OVER WATER MAIN PIPES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
7. CONTRACTOR SHALL KEEP CONSTRUCTION ACTIVITIES WITHIN THE SITE BOUNDARIES FOR THIS PROJECT AS SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIALS, BOARD MATERIAL, AND PIPE MATERIAL.

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE AND/OR ON-SITE MEETINGS WITH THE PROJECT REPRESENTATIVE PRIOR TO THE START OF WORK.
2. CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE WHEN MATERIALS ARE ON SITE OR UNTIL THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY (20) HOUR NOTICE.
3. ALL MATERIAL FURNISHED OR FOR THE PROJECT MUST MEET THE SPECIFICATIONS OF THE APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTOR SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS.
4. WORK SUBJECT TO APPROVAL BY ENGINEER MUST BE APPROVED PRIOR TO (A) BASED, TRENCHES FOR PIPES, (B) PLACING OF AGGREGATE BASE, (C) PLACING OF CONCRETE, (D) PLACING OF ASPHALT PAVING, (E) OR AS OTHERWISE SPECIFIED.
5. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.

GENERAL YARD PIPING AND UTILITIES NOTES:

1. EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILT AND THROUGH TOPOGRAPHIC FIELD SURVEY PROVIDE BY KRRP. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY PIPES DURING CONSTRUCTION. IF EXISTING UTILITIES SUCH AS ELECTRIC, POTABLE WATER, ETC. ARE IN CONFLICT WITH THE PURSUING REAULMENT OR TRENCH ALIGNMENT, CONTRACTOR SHALL NOTIFY ENGINEER.
2. ALL UTILITIES SHOWN AS SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPE AND EQUIPMENT ARE SHOWN UNSCREENED AND HEAVY-LINED.
3. ALL PIPES SHALL HAVE CONSTANT UNIFORM SLOPE.
4. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS AND TRENCH SEPARATION SHALL BE A MINIMUM OF TEN (10) FEET OUTSIDE OF PIPE TO OUTSIDE OF PIPE. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 64574, TITLE 22, CALIFORNIA ADMINISTRATION CODE.
5. CONTRACTOR SHALL MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENTS IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
6. ALL VALUES SET WITH GRADES SHALL HAVE BORDERS AND COLLARS.

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<th>CRITERION</th>
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<th>VALUE</th>
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<td>STEEL PIPE FOR PIPING OPTIONS SEE GC003</td>
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GC001

KLAMATH RIVER RENEWAL CORPORATION

GENERAL CIVIL NOTES

DRArawn BY: L. H. WOOD
CHECKED BY: L. WOOD
PROJECTED BY: VOGO

KLAMATH RIVER RENEWAL CORPORATION

GENERAL CIVIL NOTES

DRArawn BY: L. H. WOOD
CHECKED BY: L. WOOD
PROJECTED BY: VOGO
NOTES:
1. MARKER POSTS SHALL BE OFFSET 5'-0" FROM ACTUAL MARKER LOCATIONS UNLESS MARKER LOCATIONS ARE DIFFERENT FROM PIPE LOCATION SPECIFIED IN THE ORIGINAL CONTRACT.

2. LOCATIONS OF MARKER POSTS SHALL BE FIELD VERSIFIED BY CONTRACTOR AND APPROVED BY THE ENGINEER.

FIELD-PLACED CEMENT, GROUT, AND DIAPER (SEE NOTE 2)

1/2" THICK X 4" LONG BACKING PLATE (SEE NOTE 2)

EXISTING 24" PIPE

NOTES:
1. CONTRACTOR SHALL CONDUCT AN AEROSOL SOLUTION LEAK TEST AT 70 PSI AIR PRESSURE IN ADDITION TO THE RADIANT OR MAGNETIC PARTICLE TESTING PERFORMED BY THE CONSTRUCTION MANAGER. IF LEAKS ARE DETECTED, REPAIR AND RETEST THE WELDS UNTIL THERE ARE NO LEAKS. ALL HOLES MUST BE CLOSED IN THE TEST AND COAT AS SHOWN. TAP HOLES MAY BE ON INSIDE OR OUTSIDE OF JOINT.

2. FOR FIELD-WELDED INDIVIDUAL BUTT STRAP PIECES TO EACH OTHER, SEE DETAIL C705.

3. PRE-QUALIFIED CJP WELDS IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE OR TABLE 8-2 OF THE AISC STEEL CONSTRUCTION MANUAL MAY BE UTILIZED.

4. UNLESS SUPPORTING VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY THE CODES AND ENGINEERS APPROVAL.

5. FIELD-APPLIED JOINT LINING PROTECTION REQUIRED FOR SHOP-SERVED PIPE.

6. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND CONSTRUCTION MANAGER. IF LEAKS ARE DETECTED, REPAIR AND RETEST THE WELDS UNTIL THERE ARE NO LEAKS. ALL HOLES MUST BE CLOSED IN THE TEST AND COAT AS SHOWN. TAP HOLES MAY BE ON INSIDE OR OUTSIDE OF JOINT.

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ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT

NOTES:
1. FOR ADDITIONAL REQUIREMENTS SEE SPEC SECTION 'PIPE SUPPORTS'.
2. GALVANIZE ALL PARTS AFTER FABRICATION.
3. WHERE PIPE SUPPORT OCCURS ON GRADE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
4. THIS PIPE SUPPORT IS LIMITED TO PIPE FROM 2 1/2" DIAMETER TO 36" DIAMETER INCLUSIVE.
5. GALVANIZED ANCHOR BOLT OR CONCRETE ANCHOR WITH TWO NUTS AND ONE LOCKWASHER. PROVIDE BAR 4x1 1/2x4" WELDED TO BOLT. TYP OF 4, SEE SPECS.

STEEL PIPE HAND HOLE DETAIL

WARNING
1. IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

SLEEVED PIPE OPENING IN EXISTING WALL

NOTES:
1. PIPE OPENING DETAILS ARE TO BE USED IN DRY WALLS ONLY AND SHALL NOT BE USED FOR WALLS WITH WATER ON ONE OR BOTH SIDES.

SCALE: NTS

DIMENSIONS IN INCHES

AJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT

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SEE NOTE 5

NON-SHRINK GROUT

MIN

MIN

SCALE: NTS

SLEEVED PIPE OPENING IN EXISTING WALL

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SCALE: NTS

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SEE NOTE 5

NON-SHRINK GROUT

MIN

MIN

SCALE: NTS
**GENERAL NOTES:**

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**EROSION AND SEDIMENT CONTROL NOTES:**

1. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. THE ASSOCIATES GENERAL CONDITIONS OF THE CONTRACT SET FORTH OTHER GENERAL REQUIREMENTS.

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**EROSION AND SEDIMENT CONTROL NOTES:**

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Sheet Notes:

1. Contractor shall demolish and dispose of existing 24-inch diameter pipeline after the new pipeline is in service and operational, as approved by owner. Dispose of materials offsite at approved disposal location.

2. The existing rock line is based solely upon existing borings completed for the project. See specifications for detailed boring information.

Warning

If this bar does not measure 1" then drawing is not to scale.

Job No: 000000

Klamath River Renewal Corporation
City of Yreka Water Line

D101 - Demolition Waterline Plan and Profile

Plan Scale: 1" = 20'
Profile Scale: 1" = 20'

Existing Underwater Riprap Detail

Remove and store onsite at approved location the existing 12" riprap. Reuse riprap if meets specifications for new riprap and is approved by engineer.

Reservoir Bottom

Reservoir Normal Pool

Reservoir Water Level

WSEL 2331.3

Post Drawdown

500 Year Flood

WSEL 2322.48

Post Drawdown

100 Year Flood

WSEL 2321.08

Existing Gate

Contractor to verify existing joint type. Gasket with thrust block or weld joints.

Cut and Butt Weld 24" Cap Onto Existing 24" Pipeline

1/2

FEATURE: RESERVOIR NORMAL POOL: WSL 2331.3

REFERENCE: D102 - Innovative Waterline Plan and Profile

J. BURNS
R. WOOD
J. LOWY

Issued for Construction:
JAL
5/25/22

Issued for Construction:
JAL
6/10/22

DESIGNED
D. BURNS

DRAWN
D. LOWY

CHECKED
D. LOWY

PROJECT MANAGER
JACOBS

Path: C:\Vault20\Klamath River Renewal Corp\City of Yreka Water Line\D101.dwg
Plot date: Jun 10, 2022 12:25pm, CAD User: JoeNeves
1. See EC dwgs for erosion and sediment control measures.
2. Longitudinal shown in pipeline profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 2' of cover over pipeline.
4. For pipe size and material options see EC dwgs.
5. All steel pipe end welds shall be butt-welds per detail CT105. LC: Finish Line and Coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each interior lining. For hand hole detail, see detail C907.

If this bar does not measure 1" then drawing is not to scale.

Sheet Notes:

1. Connect to existing pipeline (to be abandoned in place).

Profile:
Scale: Vert 1" = 10'

Plan:
Scale: 1" = 20'

Notice to Contractor:

1. See EC DWG for erosion and sediment control measures.

2. Check for abandon pipeline.

3. Use pipe size and material options from DWG C008.

4. Contractor shall provide a minimum of 2' of cover over pipeline.

5. All steel pipe end welds shall be butt-welds per detail C703.

6. Contractor has option to provide hand holes at each interior lining. For hand hole detail, see detail C907.
SHEET NOTES:

1. SEE EC DWG FOR EROSION AND SEDIMENT CONTROL MEASURES.
2. ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO PROVIDE A MINIMUM OF 2.5FT OF COVER OVER PIPELINE.
4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11.
6. CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HANDホール DETAIL, SEE DETAIL C907.

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

JOB NO: 000000
ASSOCIATES JACOBS McMILLEN
PATH: C:\Vault20\Klamath River Renewal Corp\City of Yreka Water Line\C101.dwg

KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE
WATERLINE PLAN AND PROFILE 2

SCALE: 1"=20'
SCALE: VERT 1"=10'

MATCHLINE - SEE DRAWING C102
EXIST GRADE
MATCHLINE - SEE DRAWING C100

PLAN

PROFILE

40' 20' 0" 1' 10'
SCALE: HORIZ 1"=20'
VERT 1"=10'

SEE NOTES 4, 5 AND 6
24" RW (6) OR 25" RW (8)
2.5' MIN
TYP
1. See EC DWGS for erosion and sediment control measures.
2. Elevations shown in pipeline profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide minimum of 2.5' of cover over pipeline.
4. For pipe size and material options see DWG G018.
5. All steel pipe ends will be butt-welded per detail C703. Grid: Pipe line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location. For hand hole detail, see detail C907.

Sheet Notes:

1. See EC DWGS for erosion and sediment control measures.
2. Elevations shown in pipeline profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide minimum of 2.5' of cover over pipeline.
4. For pipe size and material options see DWG G018.
5. All steel pipe ends will be butt-welded per detail C703. Grid: Pipe line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location. For hand hole detail, see detail C907.

WARNING

1. If this bar does not measure 1" then drawing is not to scale.
Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

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2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

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3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
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- SEE NOTES 4, 5 AND 6

Sheet Notes:

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3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
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- SEE NOTES 4, 5 AND 6

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2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
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- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.

Plan:

- Scale: 1" = 20'
- Matchline - See Drawing C103

Profile:

- Scale: HORIZ 1" = 20'
- VERT 1" = 10'
- SEE NOTES 4, 5 AND 6

Sheet Notes:

1. See EC DWG for erosion and sediment control measures.
2. Erosion and Sediment Control Measures shown in Pipeline Profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3.0' of cover over pipeline under the road and 2.5' of cover outside of road.
4. For pipe size and material options see DWG G008.
5. All steel pipe end welds shall be butt-welds per details CTIL, UNO. Finish line and coat pipeline over weld as required by specification section 33 11 11.
6. Contractor has option to provide hand holes at each joint location to replace interior lining. For hand hole details see detail C907.
1. See EC DWG for erosion and sediment control measures.
2. Elevations shown in profile profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3' of cover over pipeline.
4. For fire size and material options, see EC DWG. See EC DWG for erosion and sediment control measures.
5. All other pipe and materials shall be butt-welded per detail requirements.
6. Contractor has option to provide hand holes at each joint location to repair interior lining. For hand hole details, see DETAIL C907.

Sheet Notes:
1. See EC DWG for erosion and sediment control measures.
2. Elevations shown in profile profile are to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of 3' of cover over pipeline.
4. For fire size and material options, see EC DWG. See EC DWG for erosion and sediment control measures.
5. All other pipe and materials shall be butt-welded per detail requirements.
6. Contractor has option to provide hand holes at each joint location to repair interior lining. For hand hole details, see DETAIL C907.

Matchline - see drawing C105.

Existing trench: see notes.

New Daggett Road FINAL GRADE (NOT IN THIS PACKAGE)

Contractor to provide a minimum of 3' of cover over pipeline.

For pipe size and material options, see DWG G008.

All steel pipe end welds shall be butt-welds per detail C703. Uncoated pipe over weld as required by specification section 311.11.

Contractor has option to provide hand holes at each joint location to repair interior lining. For hand hole details, see DETAIL C907.

CLSM trench fill shall be used where pipe cover under road is less than 3'.
1. See EC DWGS for erosion and sediment control measures.
2. Elevation shown in profile plot is to invert (flowline) of pipeline unless otherwise noted.
3. Contractor to provide a minimum of #2 cover over pipeline under the road and 3.5 ft min outside of road.
4. For pipe size and material options see EC DWGS.
5. All steel pipe end welds shall be butt-welds per details CTOS V06. Finish line and coat pipeline over wood as required by Specification Section 33.11.11.
6. Contractor has option to provide hand holes at each joint location. Only one hand hole per interior lining. For hand hole detail, see detail C907.
7. Clast trench backfill shall be used where pipe cover under road is less than 3 ft.
3. CONTRACTOR SHALL PROVIDE FIRE WIRE CONNECTION AT FLANGES PER DETAIL C902.
4. FOR FIRE SITES AND MATERIAL OPTIONS SEE DRAWING.
5. INSTALL SCREENING JUMPERS ACROSS ALL FLANGED JOINTS AND NON-WELDED CONNECTIONS PER DETAIL C902.
NOTES:

1. ALL BOLTS AND NUTS SHALL ASTM A325-1 COATED WITH FUSION BONDED POLYFLUORO-POLYMER FUSION BONDED COATING (TRIPAC BLUE 2000, OR EQUAL).

2. ALL FLANGES SHALL BE ANSI B16.5 CLASS 300 FLANGE.

3. CONTRACTOR SHALL PROVIDE PIPE WIRE CONNECTION AT FLANGES PER DETAIL C902.

4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.

5. INSTALL BONDING JUMPERS ACROSS ALL FLANGED JOINTS AND NON-WELDED CONNECTIONS PER DETAIL C902.

PROPOSED ENGINEER CONSTRUCTION SEQUENCE:

THE CONSTRUCTION SEQUENCE PROPOSED IN THE STEPS BELOW ARE TO INFORM THE CONTRACTOR ON THE ENGINEER'S DESIGN DEVELOPMENT PROCESS. THIS SHALL NOT DICTATE THE CONTRACTOR'S MEANS AND METHODS.

1. CONSTRUCT NEW PIPELINE DOWNSTREAM OF FLANGES.
2. FABRICATE, INSTALL AND HYDROTEST STEEL PIPE SECTION UPSTREAM OF FLANGES. INCLUDE THE PERMANENT BLIND FLANGE (SOUTH SIDE ON THIS DRAWING SHEET) AND UPSTREAM FLANGE (WITH TEMPORARY BLIND FLANGE) IN HYDROTEST.
3. CONNECT PIPE SECTION TO EXISTING PIPELINE.

UPSTREAM PIPELINE CONNECTION

SCALE: 3/4" = 1'-0"
Notes:
1. If pipe material is 25" pipe is used, the 24" flange shall be beamed to provide clearance for 25" pipe. Flange shall be welded to the 25" pipe per AWWA D-207.

Valve Vault Section Detail
Scale: 3/4" = 1'-0"

Valve Vault Section Detail
Scale: 1/2" = 1'-0"