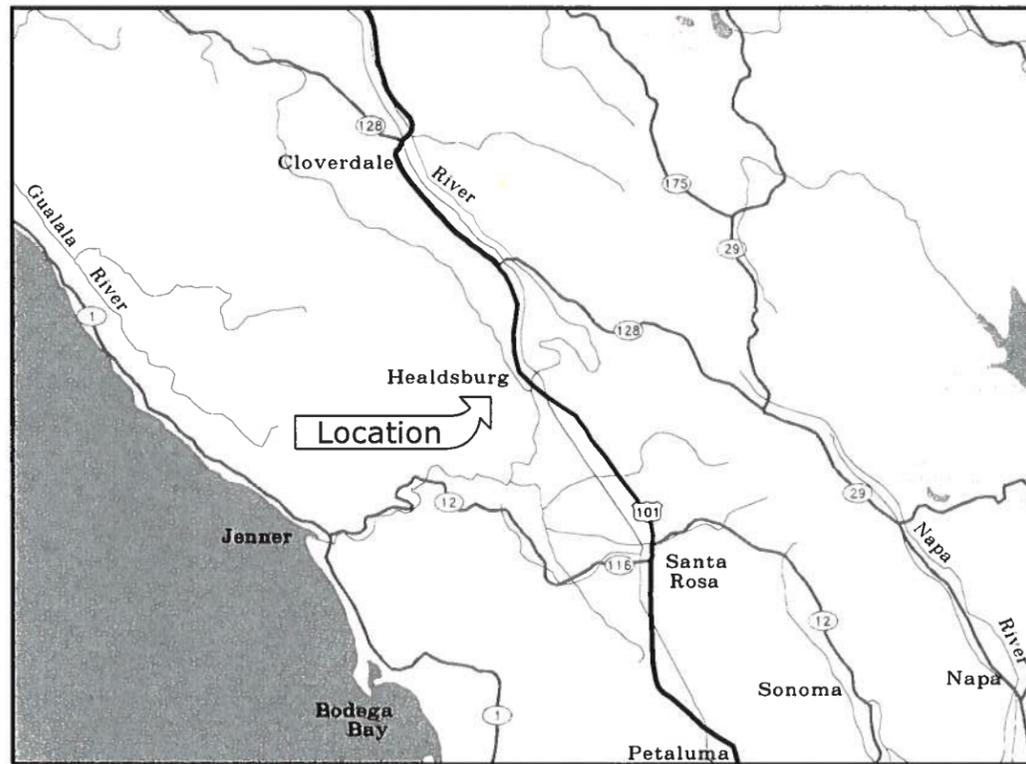


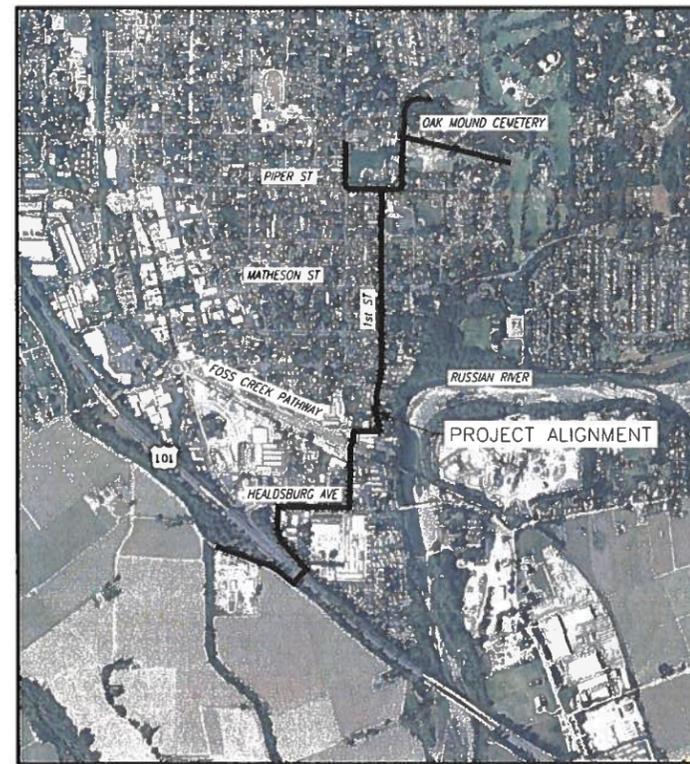
City of Healdsburg

Municipal Recycled Water Pipeline Project

City of Healdsburg Project No. WA004



VICINITY MAP



PROJECT LOCATION



City of Healdsburg

 Patrick D. Fuss, P.E., RCE 57272
 Utility Engineering Manager
 City of Healdsburg
 Municipal Utility Department



QC REVIEW: STAN VANDEBERGH
 DATE: 9/2023

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 PROJ. MGR.: RSR

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

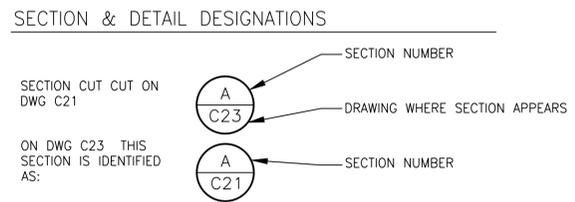
TITLE SHEET

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER T001 |
| SHEET NUMBER 1 OF 43 |
| REVISION |

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LEGEND

| | |
|--|--|
| | NATURAL GROUND OR GRADE |
| | COMPACTED NATIVE OR ENGINEERED FILL |
| | GRANULAR MATERIAL SUCH AS CRUSHED ROCK OR GRAVEL |
| | ASPHALT PAVEMENT (PLAN) |
| | ASPHALT PAVEMENT (SECTION) |
| | CONCRETE |
| | CLII AB |
| | EXISTING GROUND SURFACE (PAVED UNO) |
| | CHAIN LINK FENCE |
| | VINEYARD ROW |
| | EXISTING GRADE CONTOURS |
| | PROPOSED GRADE CONTOURS |
| | PROPERTY LINE OR RIGHT OF WAY |
| | CITY BOUNDARY |
| | EDGE OF PAVEMENT |
| | FACE OF CURB |
| | EXISTING SPOT ELEVATION |
| | FINISH GRADE SPOT ELEVATION |
| | DEMOLISH |
| | EARTH DITCH |
| | POTHOLE LOCATION |
| | BORING/RECEIVING PIT |
| | STEEL CASING AND RW MAIN |
| | BORING LOCATION (LOCATION APPROXIMATE) |
| | DEWATERING LOCATION |
| | BASE FLOOD ELEVATION (BFE) |
| | GROUNDWATER ELEVATION (SEE GEOTECHNICAL BORING DATA) |
| | EXISTING PAVEMENT MARKING DETAIL NO. PER CALTRANS STANDARD PLANS |



DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY NUMBER RATHER THAN LETTER

LEGEND (INFRASTRUCTURE LABELS)

| | | |
|------------|--|----------------------------------|
| NEW | | HORZ/VERT CONTROL POINT |
| | | HORIZONTAL POINT OF INTERSECTION |
| | | MANHOLE |
| | | STUB OUT |
| | | RECYCLED WATER |
| | | GATE VALVE |
| | | AIR RELEASE VALVE |
| | | BLOWOFF |
| | | BOLLARD |
| | | SAMPLING STATION |

| | | | | |
|-----------------|--|-----------------------------|--|---------------------------|
| EXISTING | | EX WATER | | EX FIRE HYDRANT |
| | | EX NAT GAS | | EX SANITARY SEWER MANHOLE |
| | | EX SEWER | | EX STORM DRAIN INLET |
| | | EX STORM DRAIN | | STREET LIGHT |
| | | EX LARGE DIA STORM DRAIN | | EX WATER/GAS VALVE |
| | | EX LARGE DIA RECYCLED WATER | | LIGHT/ELEC POLE |
| | | EX UNDERGROUND ELECTRIC | | WATER/ELEC VAULTS |
| | | EX OVERHEAD | | |
| | | EX JOINT TRENCH | | |
| | | EX FIBER OPTIC | | |
| | | EX CABLE TV | | |
| | | EX ABANDONED SEWER | | |
| | | EX WATER/SEWER LATERAL | | |

ABBREVIATIONS

| | | | | | | | |
|---------|----------------------------------|-----------|------------------------------------|--------|-----------------------------------|-----------|---|
| AB | AGGREGATE BASE | EC | END CURVE | MJ | MECHANICAL JOINT | SS | SANITARY SEWER |
| ABAN | ABANDONED | EP | EDGE OF PAVEMENT | MON | MONUMENT, MONITORING | SSB | STAINLESS STEEL BOLT |
| AC | ASPHALT CONCRETE | EQUIP | EQUIPMENT | MOV | MOTOR OPERATED VALVE | SSMH | SANITARY SEWER MANHOLE |
| ACP | ASBESTOS CEMENT PIPE | EW | EACH WAY | N | NEW, NORTH | SST | STAINLESS STEEL |
| ADJ | ADJUSTABLE | EX | EXISTING | N.I.C. | NOT IN CONTRACT | STA | STATION |
| AFF | ABOVE FINISHED FLOOR | EXP | EXPANSION | No., # | NUMBER | ST | STANDARD |
| AGG | AGGREGATE | FF | FINISHED FLOOR | NPT | NATIONAL PIPE THREAD TAPER | STD | STEEL |
| ALT | ALTERNATIVE | FG | FINISHED GRADE | NTS | NOT TO SCALE | STL | STANDARD |
| APPROX | APPROXIMATE | FH | FIRE HYDRANT | OC | ON CENTER | SVC | SERVICE |
| ARV | AIR RELIEF VALVE | FCA | FLANGED COUPLING ADAPTER | OCT | OCTOBER | SW | SIDEWALK |
| ASPH | ASPHALT | FCO | FLOOR CLEANOUT | OD | OUTSIDE DIAMETER | T | TELEPHONE |
| BC | BEGIN CURVE | FD | FLOOR DRAIN | OH | OVERHEAD | TCE | TEMPORARY CONSTRUCTION EASEMENT |
| BD | BUILDING DRAIN | FIG | FIGURE | PE | PLAIN END | TD | TILE DRAIN |
| BF | BLIND FLANGE | FL | FLOW LINE | PL | PROPERTY LINE | T&B | TOP & BOTTOM |
| BFE | BASE FLOOD ELEVATION | FLG | FLANGE | PSV | PRESSURE RELIEF VALVE | TESC | TEMPORARY EROSION & SEDIMENT CONTROL |
| BO | BLOW-OFF | FM | FORCE MAIN | PRV | PRESSURE REDUCING VALVE | TFC | TOP FACE OF CURB |
| BV, BVV | BUTTERFLY VALVE | FO | FIBER OPTIC | PSF | POUNDS PER SQUARE FOOT | TFD | TOP FACE OF DIKE |
| BW | BOTH WAYS | FOC | FACE OF CURB | PSI | POUNDS PER SQUARE INCH | TOC | TOP OF CONCRETE |
| B/W | BACK OF WALK | FRP | FIBERGLASS REINFORCED PLASTIC | PSUE | PUBLIC SERVICE & UTILITY EASEMENT | TOS | TOP OF STEEL OR TOP OF STRUCTURAL FRAME |
| CAV | COMBINATION AIR VALVE | F/C | FACE OF CURB | PT | POINT | TS | TUBULAR STEEL |
| CB | CATCH BASIN | FT, ' | FEET, FOOT | PV | PLUG VALVE | TYP | TYPICAL |
| CDF | CONTROLLED DENSITY FILL | G | GAS | PVC | POLYVINYL CHLORIDE PIPE | UG | UNDERGROUND |
| CIP | CAST IRON PIPE | GA | GAUGE | PVM'T | PAVEMENT | UNO | UNLESS NOTED OTHERWISE |
| CL, CL | CENTER LINE | GALV | GALVANIZED | R | RADIUS, RIGHT | UPRR | UNION PACIFIC RAILROAD |
| CLR | CLEAR | GB | GRADE BREAK | RC | RELATIVE COMPACTION | VAR | VARIOUS |
| CLSM | CONTROL LOW STRENGTH MATERIAL | GS | GROUND SURFACE | RCP | REINFORCED CONCRETE PIPE | VER, VERT | VERTICAL |
| CO | CLEAN OUT | GSP | GROUND SURFACE PROFILE | REDR | REDUCER, REDUCING | VPI | VERTICAL POINT OF INTERSECTION |
| CONC | CONCRETE | GV | GATE VALVE | REQ'D | REQUIRED | VCP | VITRIFIED CLAY PIPE |
| CONN | CONNECTION | HC | HANDICAPPED | REIN | REINFORCING | VTR | VENT THROUGH ROOF |
| CONT | CONTINUOUS | HP | HIGH POINT IN PVM'T, HIGH PRESSURE | REV | REVISION | W | WATER, WEST |
| CMU | CONCRETE MASONRY UNIT | HPI | HORIZONTAL POINT OF INTERSECTION | RJ | RESTRAINED JOINT | WL | WASTE LINE |
| CS | CHLORINE SOLUTION | HOR, HORZ | HORIZONTAL | RR | RAILROAD | W/ | WITH |
| CTS | CATHODIC PROTECTION TEST STATION | IE | INVERT ELEVATION | RW | RECYCLED WATER | W/O | WITH OUT |
| CV | CHECK VALVE | IN, " | INCH | S | SEWER, SOUTH, SLOPE | WS | WATER SURFACE |
| CY | CUBIC YARDS | INSUL | INSULATING | SA | SAMPLE | WWF | WELDED WIRE FABRIC |
| DI | DRAIN INLET | INV | INVERT | SAN | SANITARY | WW | WATER VALVE |
| E | EAST, ELECTRIC, EXISTING | IPS | IRON PIPE SIZE | SCH | SCHEDULE | WWM | WELDED WIRE MESH |
| EA | EACH | IRR | IRRIGATION | SCP | STEEL CYLINDER PIPE | | |
| EF | EACH FACE | JT | JOINT TRENCH | SD | STORM DRAIN | | |
| DEFL | DEFLECTION | L | LEFT | SDMH | STORM DRAIN MANHOLE | | |
| DIA, Ø | DIAMETER | LAT | LATERAL | SEPT | SEPTEMBER | | |
| DIP | DUCTILE IRON PIPE | LF | LINEAL FEET | SPD | SUMP PUMP DISCHARGE | | |
| D, DR | DRAIN | LGT | LIGHT | SQ | SQUARE | | |
| DWG | DRAWING | L/G | LIP OF GUTTER | | | | |
| DWY | DRIVEWAY | LPM | LITERS PER MINUTE | | | | |
| ECC | ECCENTRIC | MAX | MAXIMUM | | | | |
| EJF | EXPANSION JOINT FILLER | MIN | MINIMUM | | | | |
| EL | ELEVATION | MH | MANHOLE | | | | |
| ELEC | ELECTRIC | | | | | | |

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

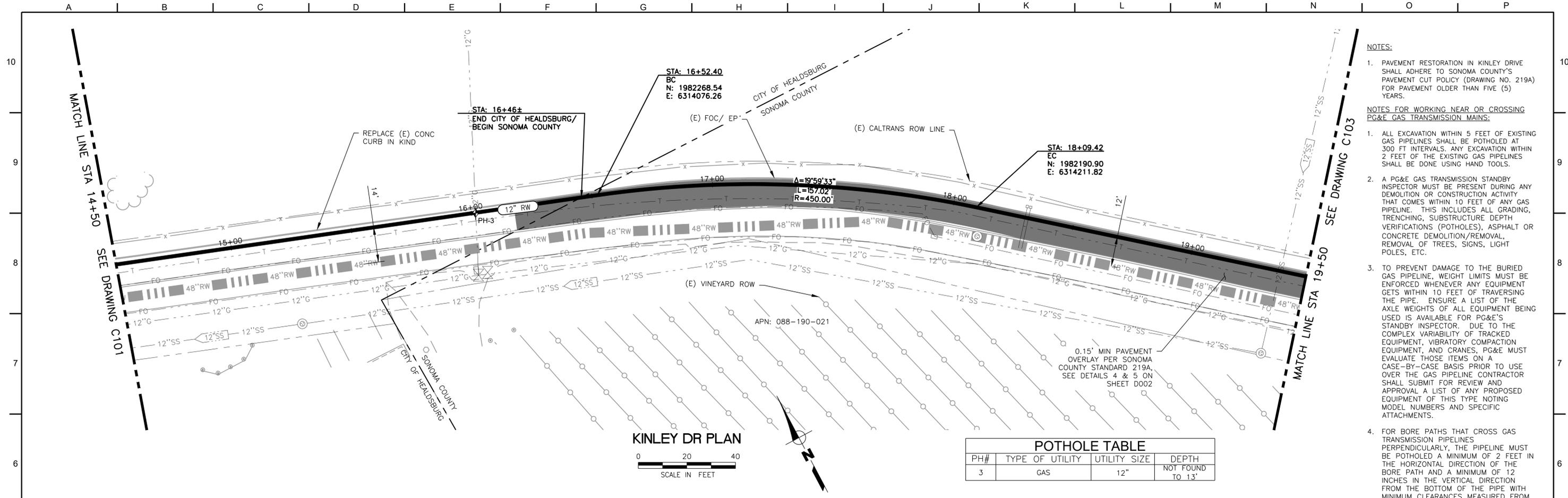
LEGEND AND ABBREVIATIONS

JOB NUMBER
700-30-22-16

DRAWING NUMBER
G003

SHEET NUMBER
4 OF **43**

REVISION



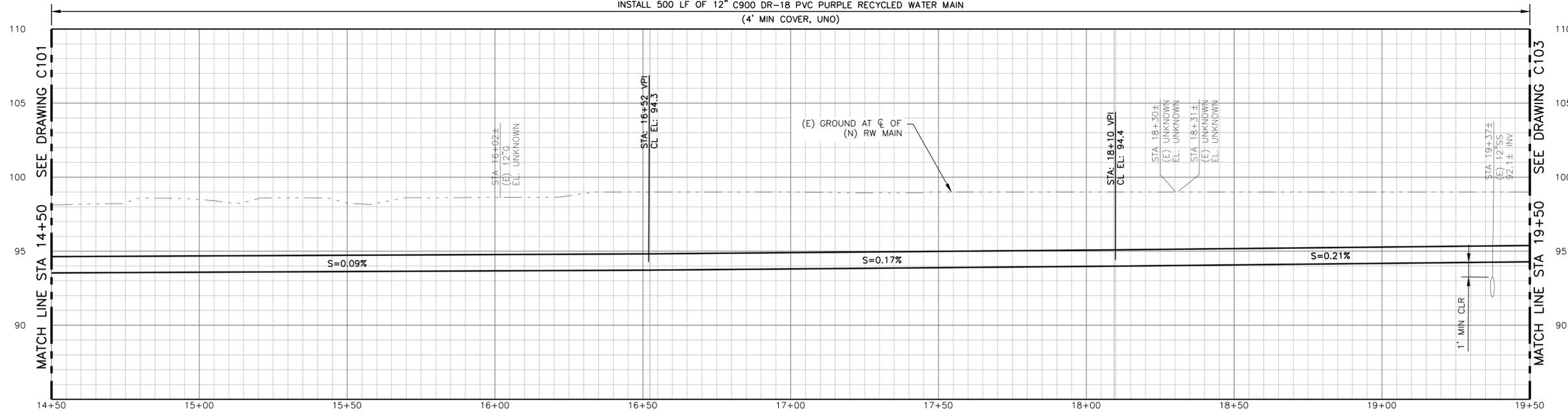
- NOTES:**
- PAVEMENT RESTORATION IN KINLEY DRIVE SHALL ADHERE TO SONOMA COUNTY'S PAVEMENT CUT POLICY (DRAWING NO. 219A) FOR PAVEMENT OLDER THAN FIVE (5) YEARS.
 - ALL EXCAVATION WITHIN 5 FEET OF EXISTING GAS PIPELINES SHALL BE POTHOLED AT 300 FT INTERVALS. ANY EXCAVATION WITHIN 2 FEET OF THE EXISTING GAS PIPELINES SHALL BE DONE USING HAND TOOLS.
 - A PG&E GAS TRANSMISSION STANDBY INSPECTOR MUST BE PRESENT DURING ANY DEMOLITION OR CONSTRUCTION ACTIVITY THAT COMES WITHIN 10 FEET OF ANY GAS PIPELINE. THIS INCLUDES ALL GRADING, TRENCHING, SUBSTRUCTURE ASPHALT VERIFICATIONS (POTHOLES), ASPHALT OR CONCRETE DEMOLITION/REMOVAL, REMOVAL OF TREES, SIGNS, LIGHT POLES, ETC.
 - TO PREVENT DAMAGE TO THE BURIED GAS PIPELINE, WEIGHT LIMITS MUST BE ENFORCED WHENEVER ANY EQUIPMENT GETS WITHIN 10 FEET OF TRAVERSING THE PIPE. ENSURE A LIST OF THE AXLE WEIGHTS OF ALL EQUIPMENT BEING USED IS AVAILABLE FOR PG&E'S STANDBY INSPECTOR. DUE TO THE COMPLEX VARIABILITY OF TRACKED EQUIPMENT, VIBRATORY COMPACTION EQUIPMENT, AND CRANES, PG&E MUST EVALUATE THOSE ITEMS ON A CASE-BY-CASE BASIS PRIOR TO USE OVER THE GAS PIPELINE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A LIST OF ANY PROPOSED EQUIPMENT OF THIS TYPE NOTING MODEL NUMBERS AND SPECIFIC ATTACHMENTS.
 - FOR BORE PATHS THAT CROSS GAS TRANSMISSION PIPELINES PERPENDICULARLY, THE PIPELINE MUST BE POTHOLED A MINIMUM OF 2 FEET IN THE HORIZONTAL DIRECTION OF THE BORE PATH AND A MINIMUM OF 12 INCHES IN THE VERTICAL DIRECTION FROM THE BOTTOM OF THE PIPE WITH MINIMUM CLEARANCES MEASURED FROM THE EDGE OF THE PIPE IN BOTH DIRECTIONS. STANDBY PERSONNEL MUST WATCH THE LOCATOR TRACE (AND EVERY REAM PASS) THE PATH OF THE BORE AS IT APPROACHES THE PIPELINE AND VISUALLY MONITOR THE POTHOLE (WITH THE EXPOSED TRANSMISSION PIPE) AS THE BORE TRAVERSES THE PIPELINE TO ENSURE ADEQUATE CLEARANCE WITH THE PIPELINE. THE POTHOLE WIDTH MUST ACCOUNT FOR THE INACCURACY OF THE LOCATING EQUIPMENT.

KINLEY DR PLAN



| POTHOLE TABLE | | | |
|---------------|-----------------|--------------|------------------|
| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
| 3 | GAS | 12" | NOT FOUND TO 13' |

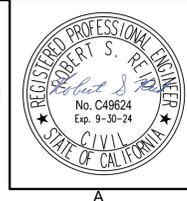
INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN (4' MIN COVER, UNO)



PROFILE

SCALE: H:1"=20', V:1"=4'

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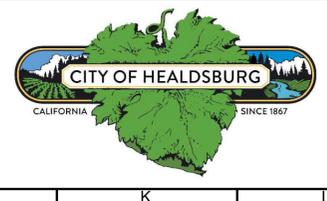
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SCALE: AS SHOWN

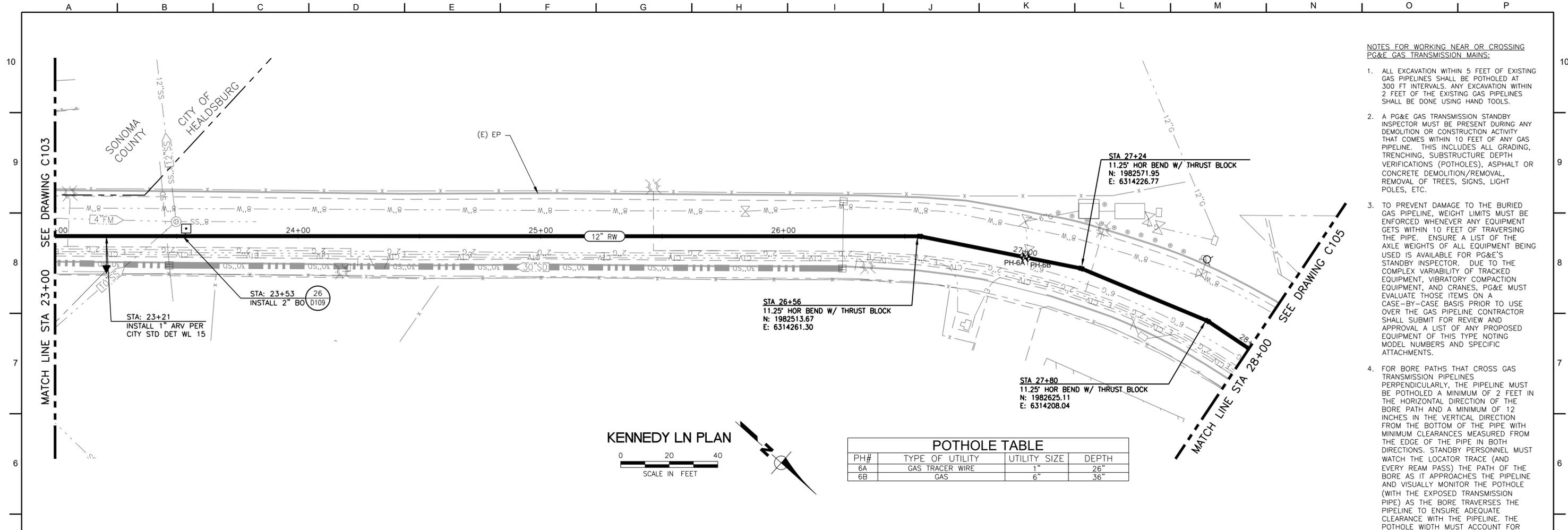
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 14+50 TO STA 19+50

JOB NUMBER
700-30-22-16
DRAWING NUMBER
C102
SHEET NUMBER
7 OF 43
REVISION

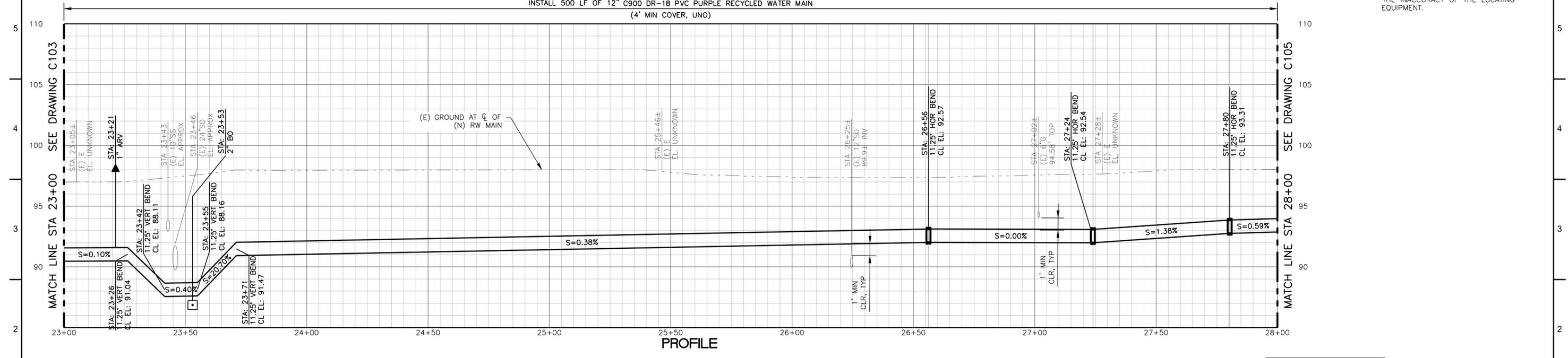


- NOTES FOR WORKING NEAR OR CROSSING PG&E GAS TRANSMISSION MAINS:**
1. ALL EXCAVATION WITHIN 5 FEET OF EXISTING GAS PIPELINES SHALL BE POTHOLED AT 300 FT INTERVALS. ANY EXCAVATION WITHIN 2 FEET OF THE EXISTING GAS PIPELINES SHALL BE DONE USING HAND TOOLS.
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POTHOLE TABLE

| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
|-----|-----------------|--------------|-------|
| 6A | GAS TRACER WIRE | 1" | 26" |
| 6B | GAS | 6" | 36" |

INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN
(4" MIN COVER, UNO)



SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

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PROJ. MGR.: RSR

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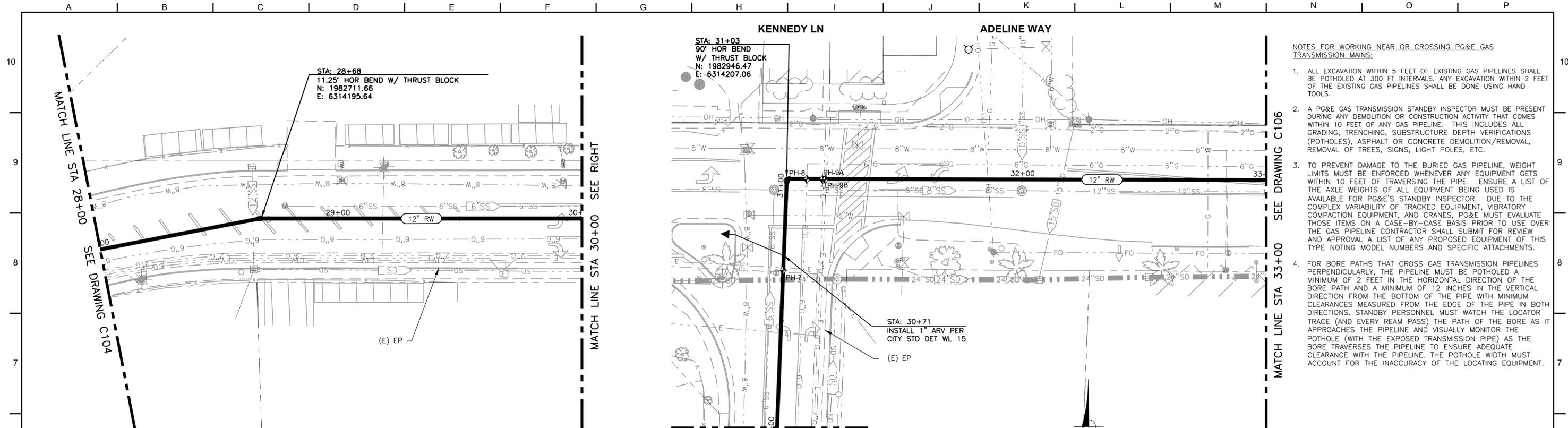
CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 23+00 TO STA 28+00

JOB NUMBER
700-30-22-16

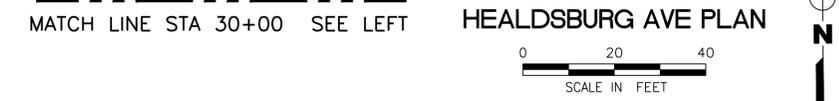
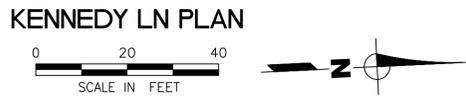
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SHEET NUMBER
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REVISION

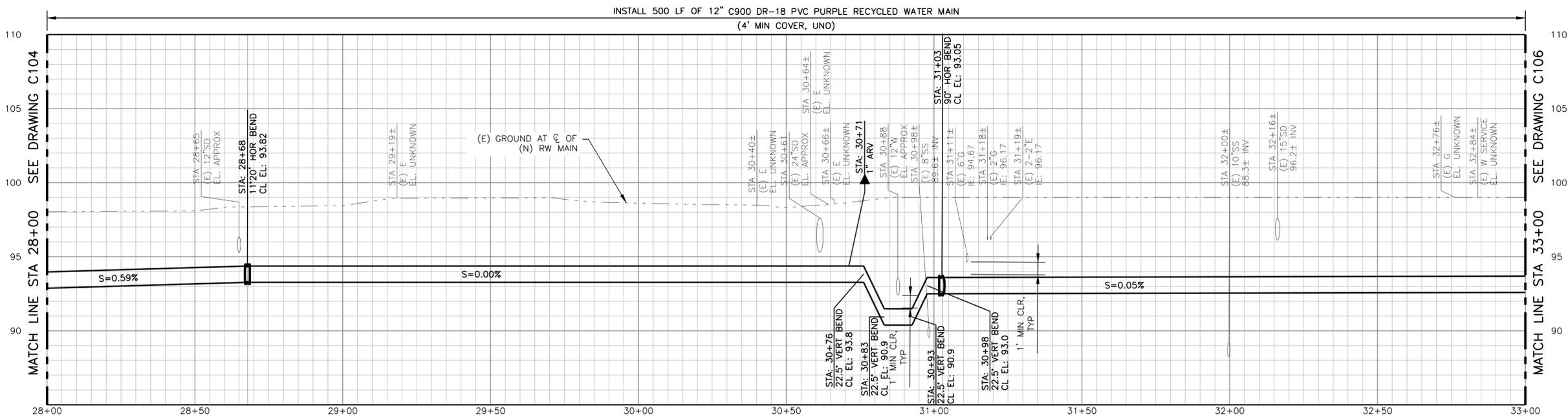


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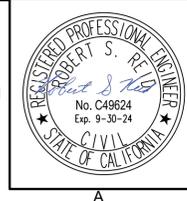
POTHOLE TABLE

| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
|-----|-----------------|--------------|-----------|
| 7 | ELECTRIC | N/A | NOT FOUND |
| 8 | GAS | 6" | 46" |
| 9A | GAS | 2" | 32" |
| 9B | ELECTRIC | 2-2" | 32" |



PROFILE
SCALE: H:1"=20', V:1"=4'

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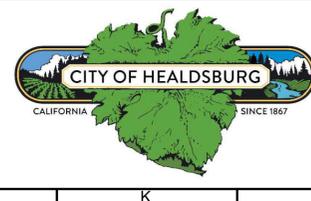


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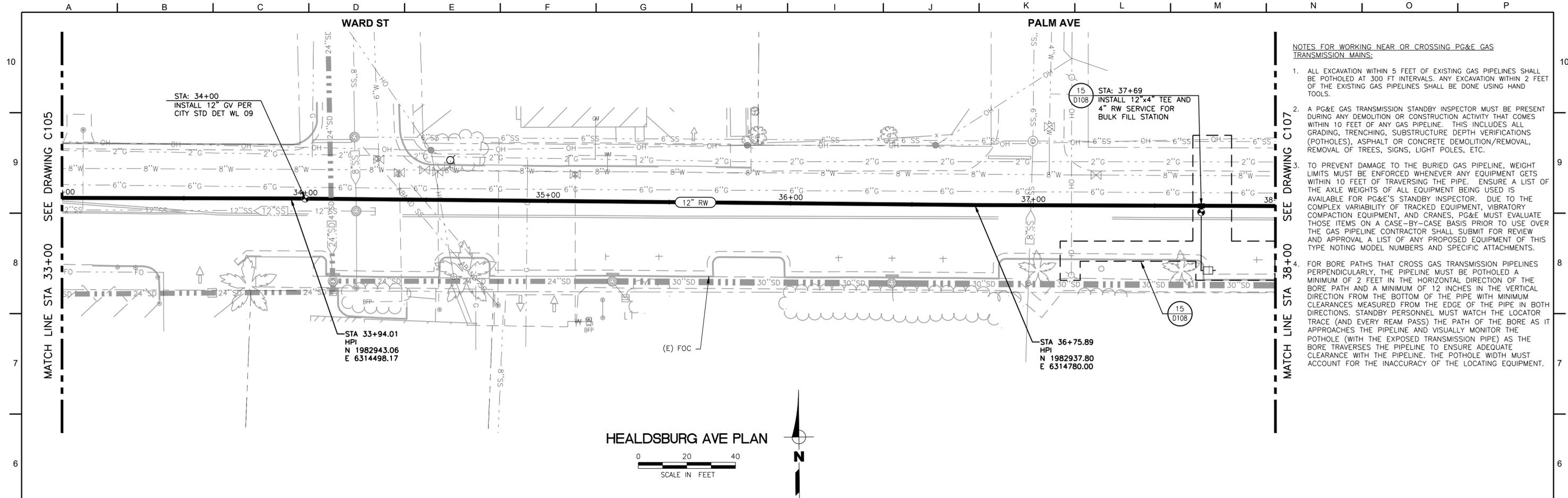
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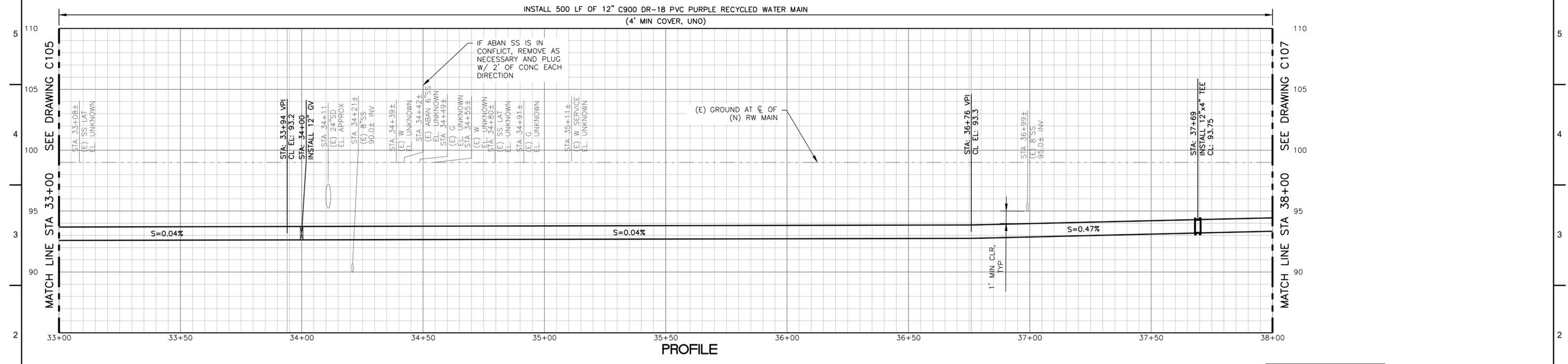


CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 28+00 TO STA 33+00

JOB NUMBER
700-30-22-16
DRAWING NUMBER
C105
SHEET NUMBER
10 OF 43
REVISION



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1. ALL EXCAVATION WITHIN 5 FEET OF EXISTING GAS PIPELINES SHALL BE POTHOLED AT 300 FT INTERVALS. ANY EXCAVATION WITHIN 2 FEET OF THE EXISTING GAS PIPELINES SHALL BE DONE USING HAND TOOLS.
 2. A PG&E GAS TRANSMISSION STANDBY INSPECTOR MUST BE PRESENT DURING ANY DEMOLITION OR CONSTRUCTION ACTIVITY THAT COMES WITHIN 10 FEET OF ANY GAS PIPELINE. THIS INCLUDES ALL GRADING, TRENCHING, SUBSTRUCTURE DEPTH VERIFICATIONS (POTHOLES), ASPHALT OR CONCRETE DEMOLITION/REMOVAL, REMOVAL OF TREES, SIGNS, LIGHT POLES, ETC.
 3. TO PREVENT DAMAGE TO THE BURIED GAS PIPELINE, WEIGHT LIMITS MUST BE ENFORCED WHENEVER ANY EQUIPMENT GETS WITHIN 10 FEET OF TRAVERSING THE PIPE. ENSURE A LIST OF THE AXLE WEIGHTS OF ALL EQUIPMENT BEING USED IS AVAILABLE FOR PG&E'S STANDBY INSPECTOR. DUE TO THE COMPLEX VARIABILITY OF TRACKED EQUIPMENT, VIBRATORY COMPACTION EQUIPMENT, AND CRANES, PG&E MUST EVALUATE THOSE ITEMS ON A CASE-BY-CASE BASIS PRIOR TO USE OVER THE GAS PIPELINE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A LIST OF ANY PROPOSED EQUIPMENT OF THIS TYPE NOTING MODEL NUMBERS AND SPECIFIC ATTACHMENTS.
 4. FOR BORE PATHS THAT CROSS GAS TRANSMISSION PIPELINES PERPENDICULARLY, THE PIPELINE MUST BE POTHOLED A MINIMUM OF 2 FEET IN THE HORIZONTAL DIRECTION OF THE BORE PATH AND A MINIMUM OF 12 INCHES IN THE VERTICAL DIRECTION FROM THE BOTTOM OF THE PIPE WITH MINIMUM CLEARANCES MEASURED FROM THE EDGE OF THE PIPE IN BOTH DIRECTIONS. STANDBY PERSONNEL MUST WATCH THE LOCATOR TRACE (AND EVERY REAM PASS) THE PATH OF THE BORE AS IT APPROACHES THE PIPELINE AND VISUALLY MONITOR THE POTHOLE (WITH THE EXPOSED TRANSMISSION PIPE) AS THE BORE TRAVERSES THE PIPELINE TO ENSURE ADEQUATE CLEARANCE WITH THE PIPELINE. THE POTHOLE WIDTH MUST ACCOUNT FOR THE INACCURACY OF THE LOCATING EQUIPMENT.



HEALDSBURG AVE PLAN

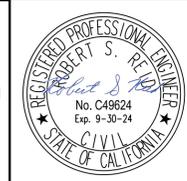


INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN
(4' MIN COVER, UNO)

PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

| No. | ZONE | REVISIONS | BY | DATE |
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**CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE**

PLAN VIEW STA 33+00 TO STA 38+00

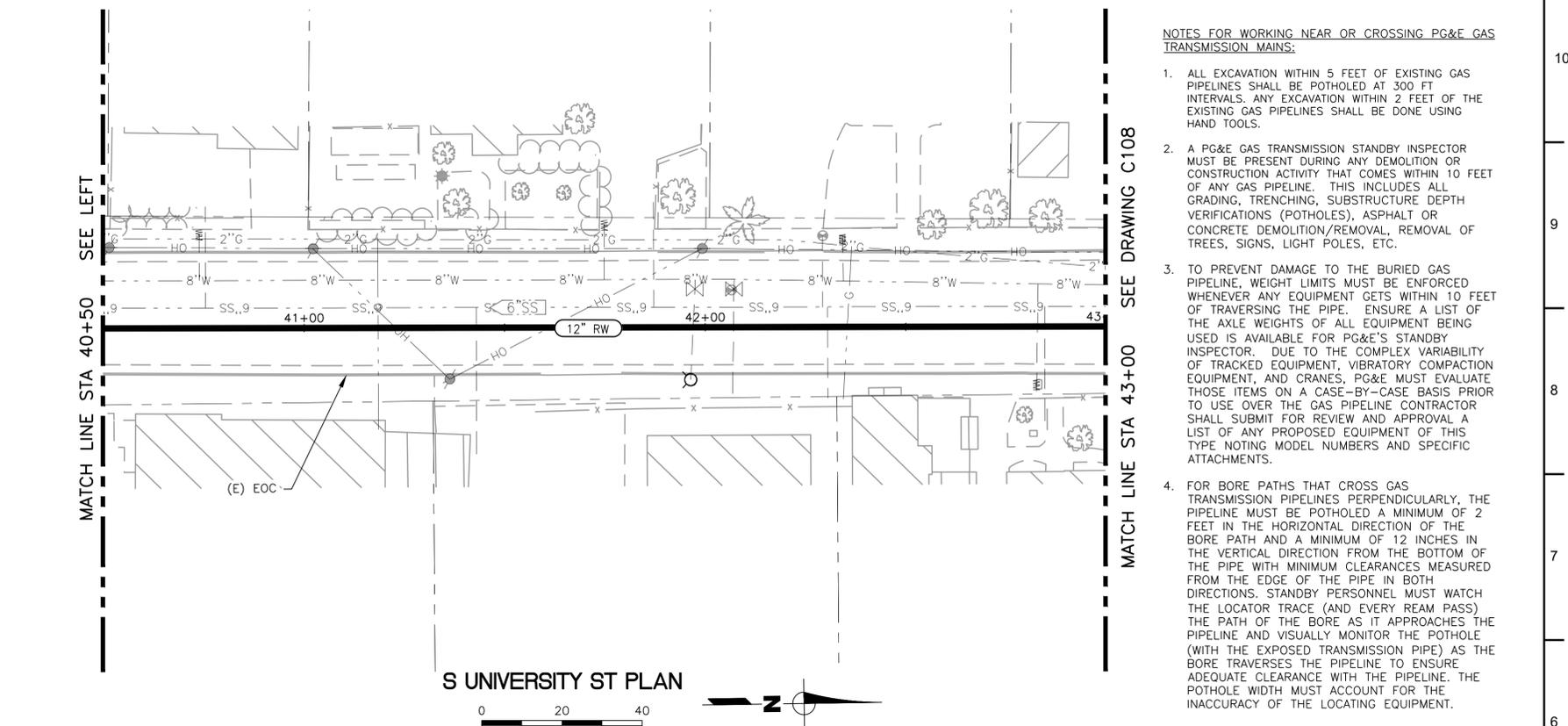
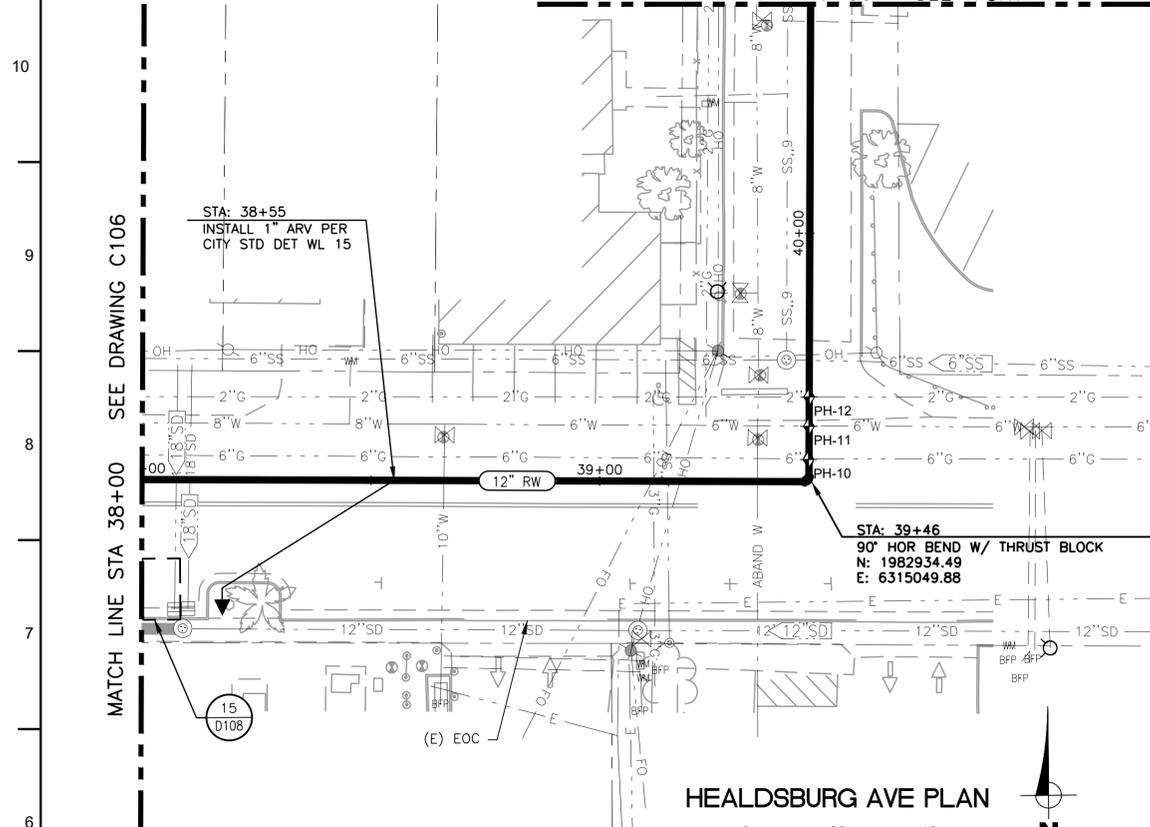
JOB NUMBER
700-30-22-16

DRAWING NUMBER
C106

SHEET NUMBER
11 OF 43

REVISION

A B C D E F G H I J K L M N O P



- NOTES FOR WORKING NEAR OR CROSSING PG&E GAS TRANSMISSION MAINS:**
- ALL EXCAVATION WITHIN 5 FEET OF EXISTING GAS PIPELINES SHALL BE POTHOLED AT 300 FT INTERVALS. ANY EXCAVATION WITHIN 2 FEET OF THE EXISTING GAS PIPELINES SHALL BE DONE USING HAND TOOLS.
 - A PG&E GAS TRANSMISSION STANDBY INSPECTOR MUST BE PRESENT DURING ANY DEMOLITION OR CONSTRUCTION ACTIVITY THAT COMES WITHIN 10 FEET OF ANY GAS PIPELINE. THIS INCLUDES ALL GRADING, TRENCHING, SUBSTRUCTURE DEPTH VERIFICATIONS (POTHOLES), ASPHALT OR CONCRETE DEMOLITION/REMOVAL, REMOVAL OF TREES, SIGNS, LIGHT POLES, ETC.
 - TO PREVENT DAMAGE TO THE BURIED GAS PIPELINE, WEIGHT LIMITS MUST BE ENFORCED WHENEVER ANY EQUIPMENT GETS WITHIN 10 FEET OF TRAVERSING THE PIPE. ENSURE A LIST OF THE AXLE WEIGHTS OF ALL EQUIPMENT BEING USED IS AVAILABLE FOR PG&E'S STANDBY INSPECTOR. DUE TO THE COMPLEX VARIABILITY OF TRACKED EQUIPMENT, VIBRATORY COMPACTION EQUIPMENT, AND CRANES, PG&E MUST EVALUATE THOSE ITEMS ON A CASE-BY-CASE BASIS PRIOR TO USE OVER THE GAS PIPELINE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A LIST OF ANY PROPOSED EQUIPMENT OF THIS TYPE NOTING MODEL NUMBERS AND SPECIFIC ATTACHMENTS.
 - FOR BORE PATHS THAT CROSS GAS TRANSMISSION PIPELINES PERPENDICULARLY, THE PIPELINE MUST BE POTHOLED A MINIMUM OF 2 FEET IN THE HORIZONTAL DIRECTION OF THE BORE PATH AND A MINIMUM OF 12 INCHES IN THE VERTICAL DIRECTION FROM THE BOTTOM OF THE PIPE WITH MINIMUM CLEARANCES MEASURED FROM THE EDGE OF THE PIPE IN BOTH DIRECTIONS. STANDBY PERSONNEL MUST WATCH THE LOCATOR TRACE (AND EVERY REAM PASS) THE PATH OF THE BORE AS IT APPROACHES THE PIPELINE AND VISUALLY MONITOR THE POT HOLE (WITH THE EXPOSED TRANSMISSION PIPE) AS THE BORE TRAVERSES THE PIPELINE TO ENSURE ADEQUATE CLEARANCE WITH THE PIPELINE. THE POT HOLE WIDTH MUST ACCOUNT FOR THE INACCURACY OF THE LOCATING EQUIPMENT.

POT HOLE TABLE

| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
|-----|-----------------|--------------|-------|
| 10 | GAS | 6" | 40" |
| 11 | WATER | 6" | 56" |
| 12 | GAS | 2" | 36" |



INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN (4' MIN COVER, UNO)



SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

| No. | ZONE | REVISIONS | BY | DATE |
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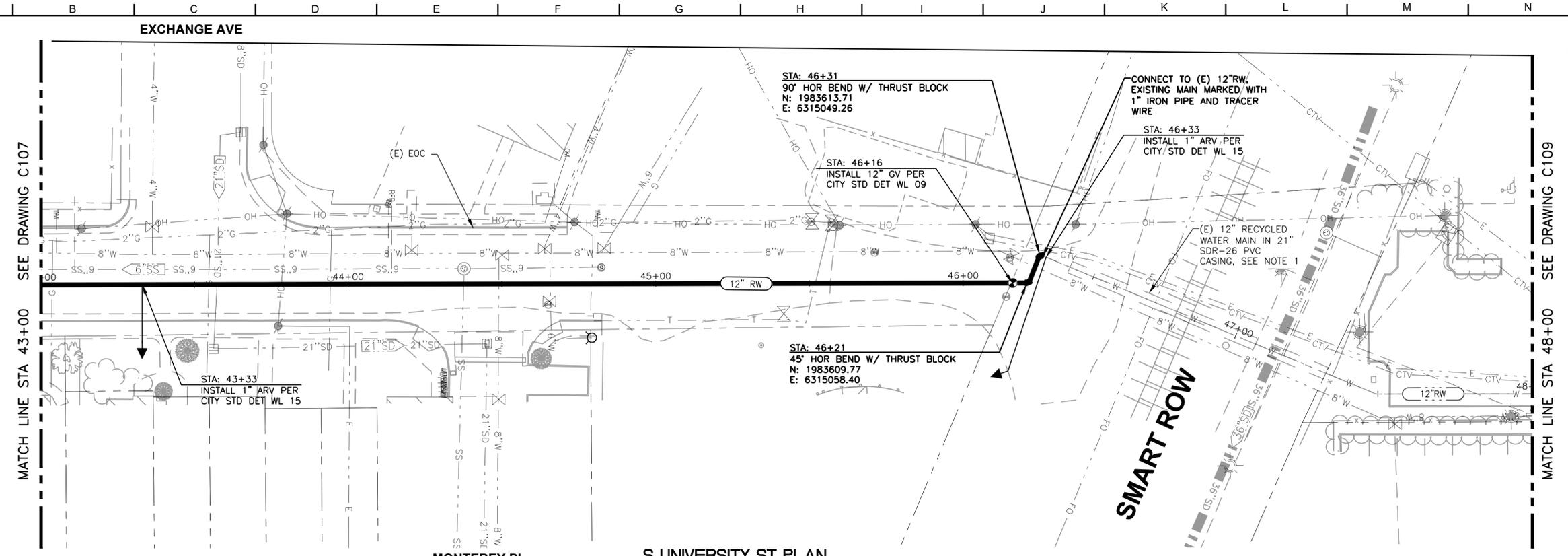


CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 38+00 TO STA 43+00

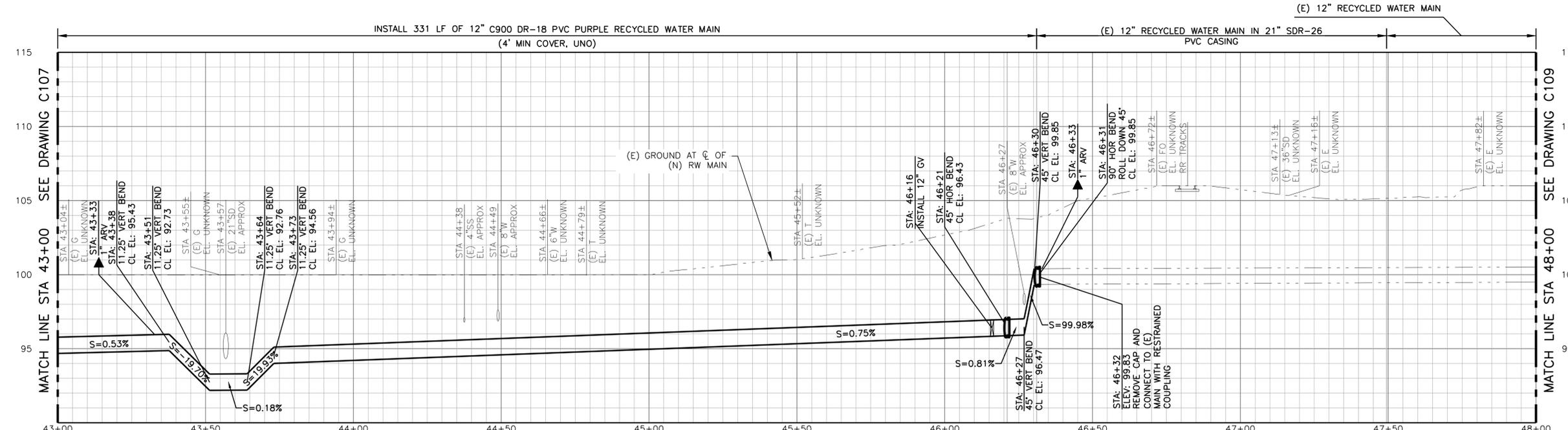
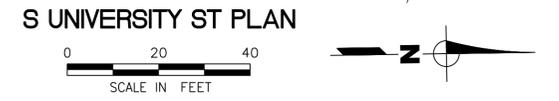
JOB NUMBER 700-30-22-16
DRAWING NUMBER **C107**
SHEET NUMBER 12 OF 43
REVISION

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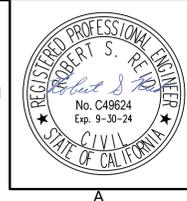


- NOTES:**
- CONTRACTOR SHALL EXPOSE CASING END, REMOVE END SEAL, AND FILL ANNULAR SPACE WITH BACKFILL GROUT PER SPECIFICATION SECTION 03600. IF ANNULAR SPACE IS ALREADY FILLED, DO NOT ADD ANY ADDITIONAL MATERIAL TO ANNULAR SPACE AND REINSTALL CASING END SEAL.
 - INSTALL TEMPORARY PIPE RESTRAINTS AND PRESSURE TEST EXISTING MAIN PER SPECIFICATIONS PRIOR TO MAKING CONNECTIONS.



PROFILE
SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL

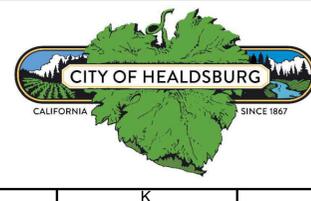


QC REVIEW: STAN VANDEBERGH
DATE: 9/2023

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

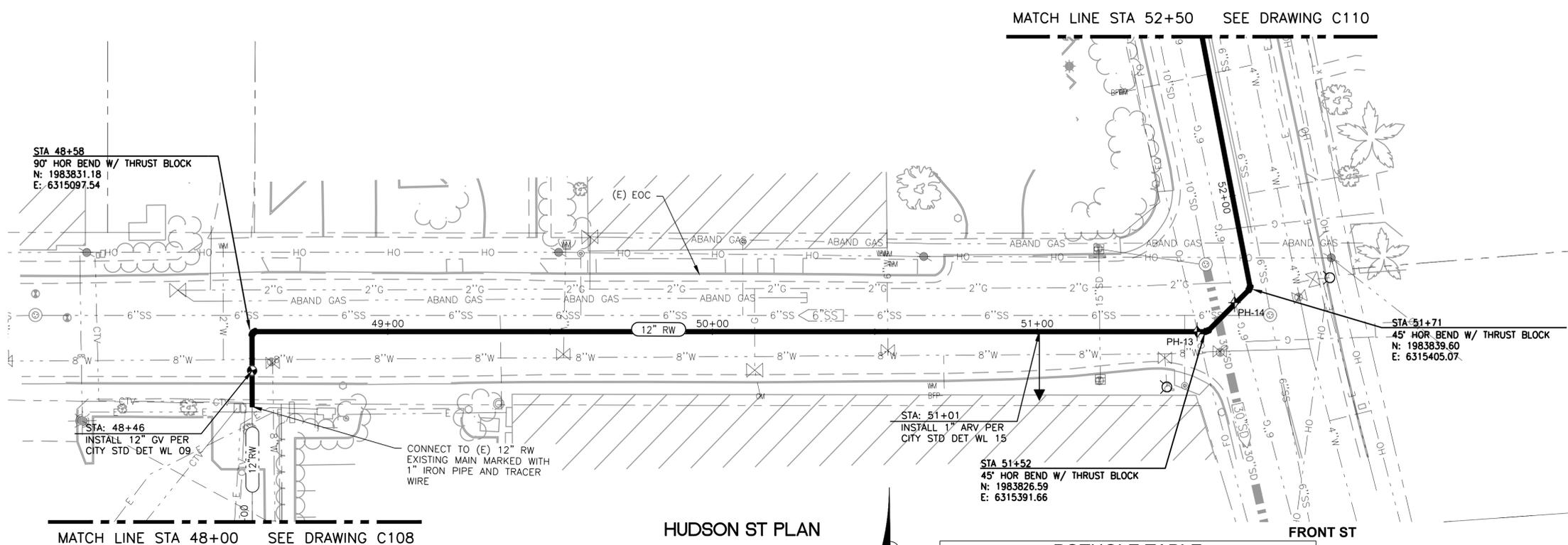
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 43+00 TO STA 48+00

JOB NUMBER
700-30-22-16
DRAWING NUMBER
C108
SHEET NUMBER
13 OF 43
REVISION

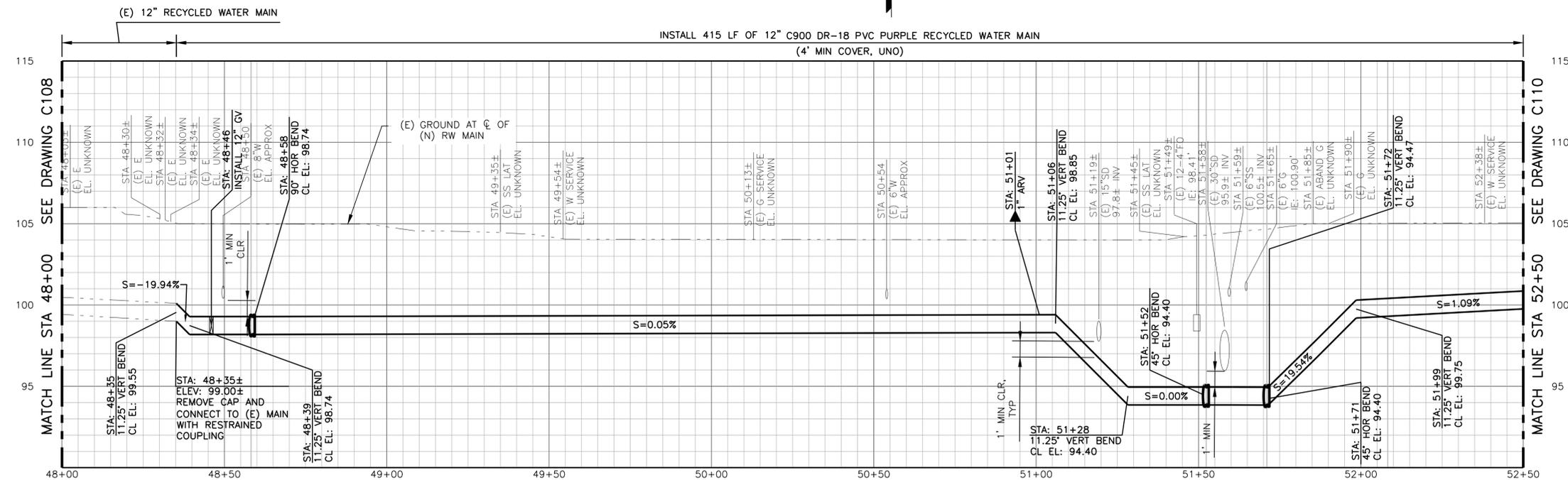
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HUDSON ST PLAN



| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
|-----|-----------------|--------------|-------|
| 13 | PHONE DUCT | 12-4" | 58" |
| 14 | GAS | 6" | 38" |



PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

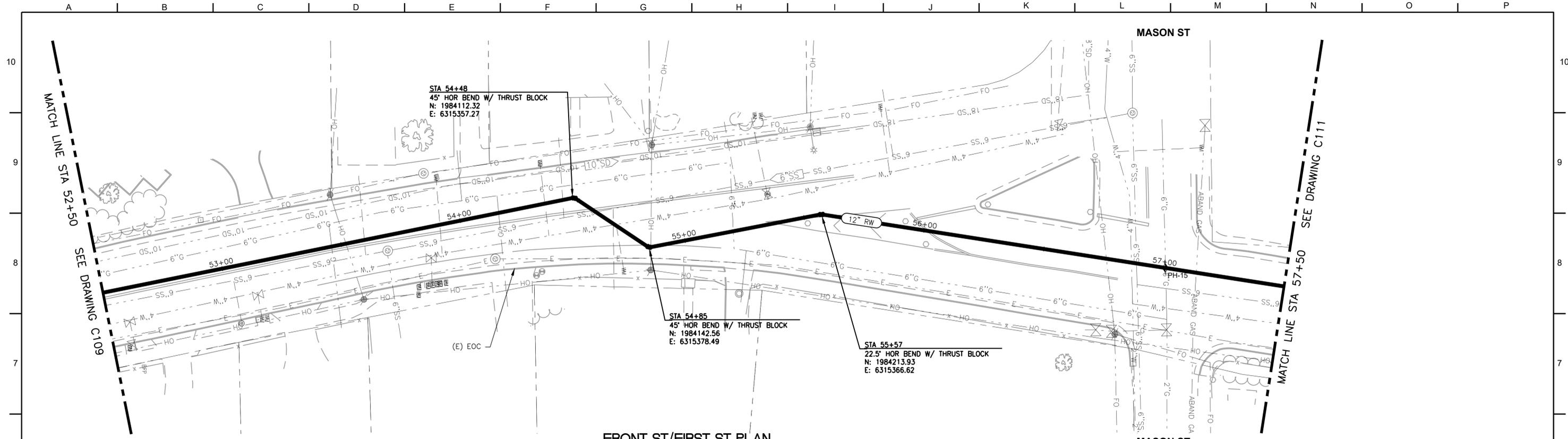
SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

| No. | ZONE | REVISIONS | BY | DATE |
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 48+00 TO STA 52+50

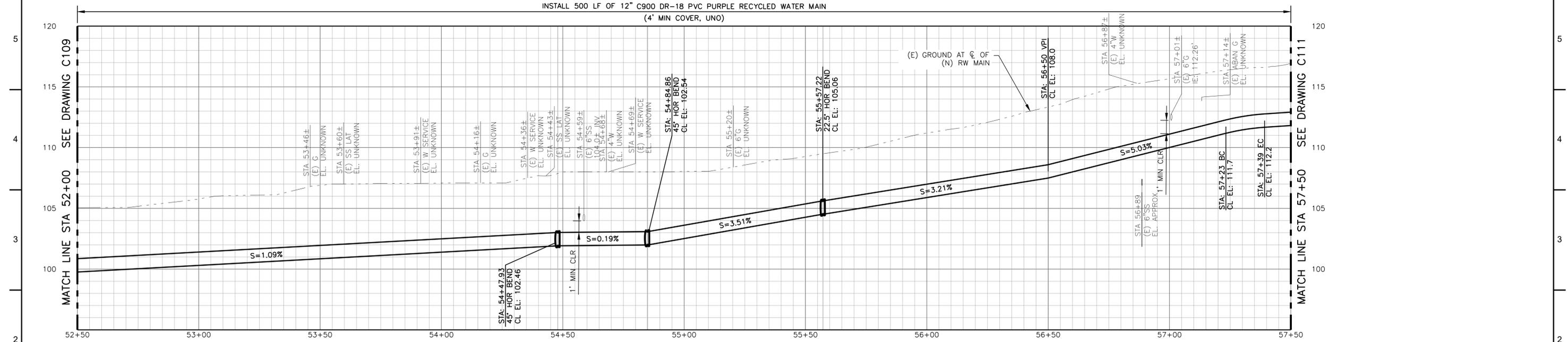
JOB NUMBER
700-30-22-16
DRAWING NUMBER
C109
SHEET NUMBER
14 OF 43
REVISION



FRONT ST/FIRST ST PLAN



| POTHOLE TABLE | | | |
|---------------|-----------------|--------------|-------|
| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
| 15 | GAS | 6" | 35" |



PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

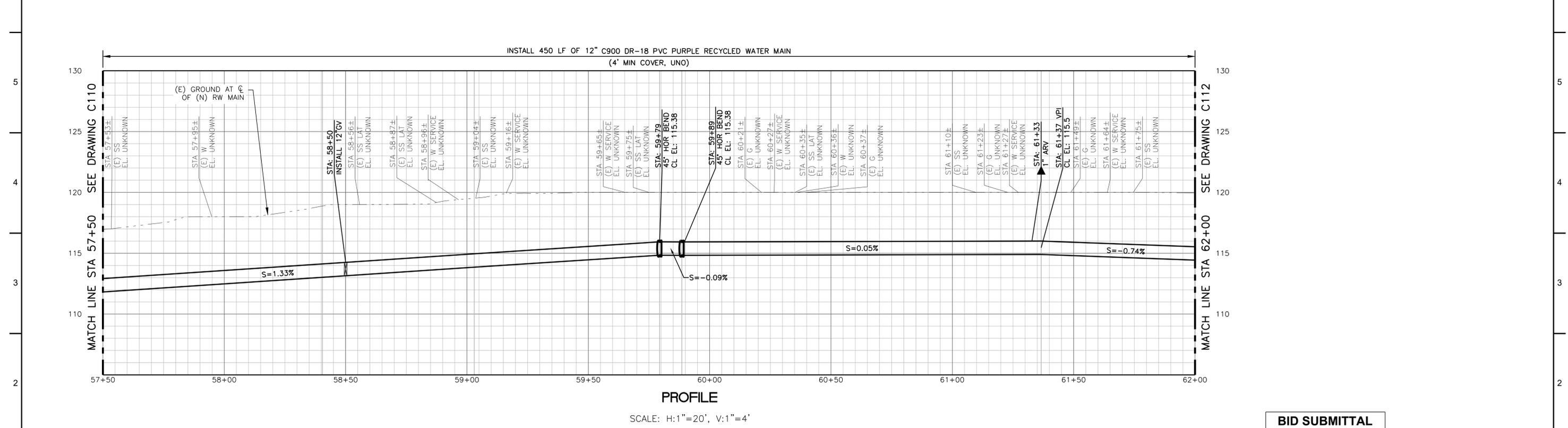
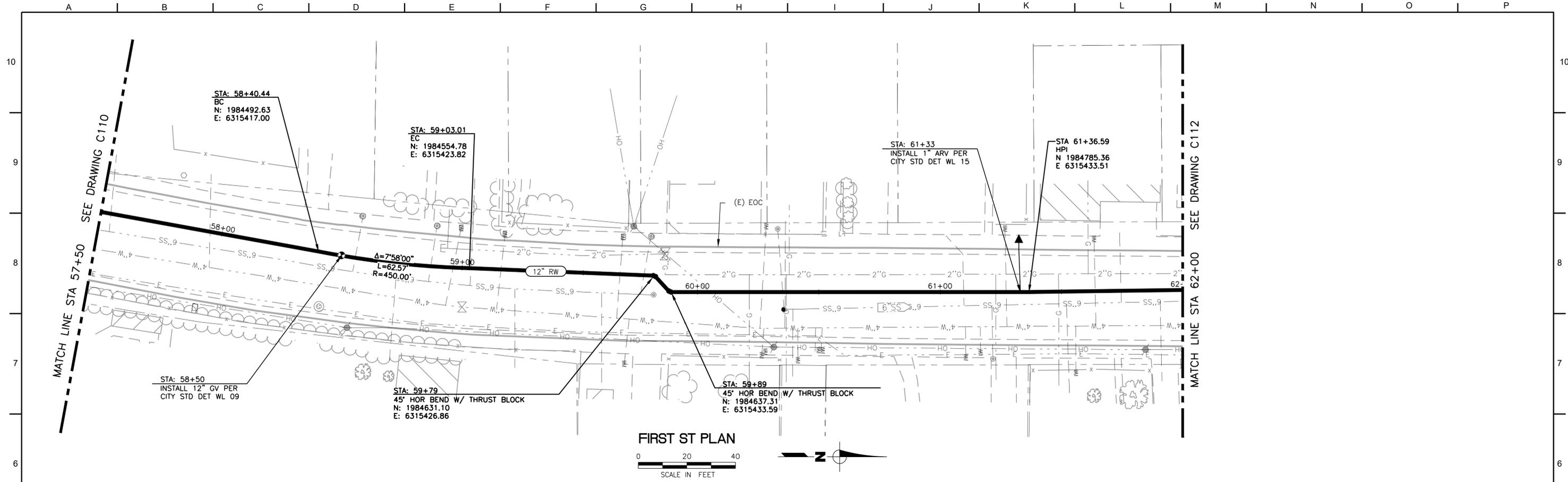
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 52+50 TO STA 57+50

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C110 |
| SHEET NUMBER 15 OF 43 |
| REVISION |

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QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE : AS SHOWN
DRAWN BY : ER
DESIGNED BY : SMG/RSR
PROJ. MGR. : RSR

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 57+50 TO STA 62+00

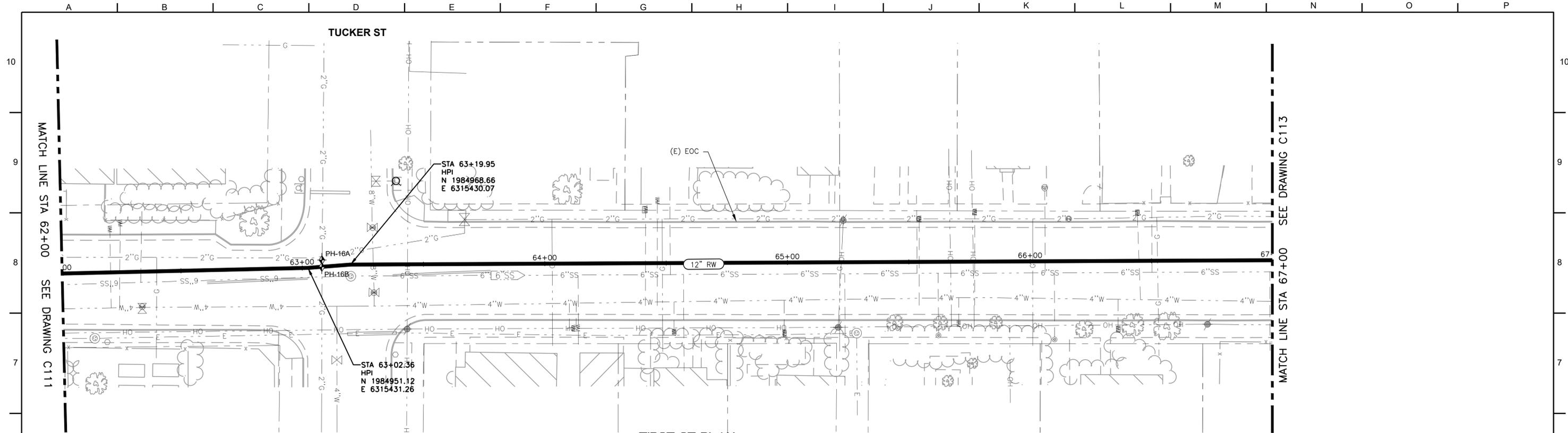
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700-30-22-16

DRAWING NUMBER
C111

SHEET NUMBER
16 OF **43**

REVISION

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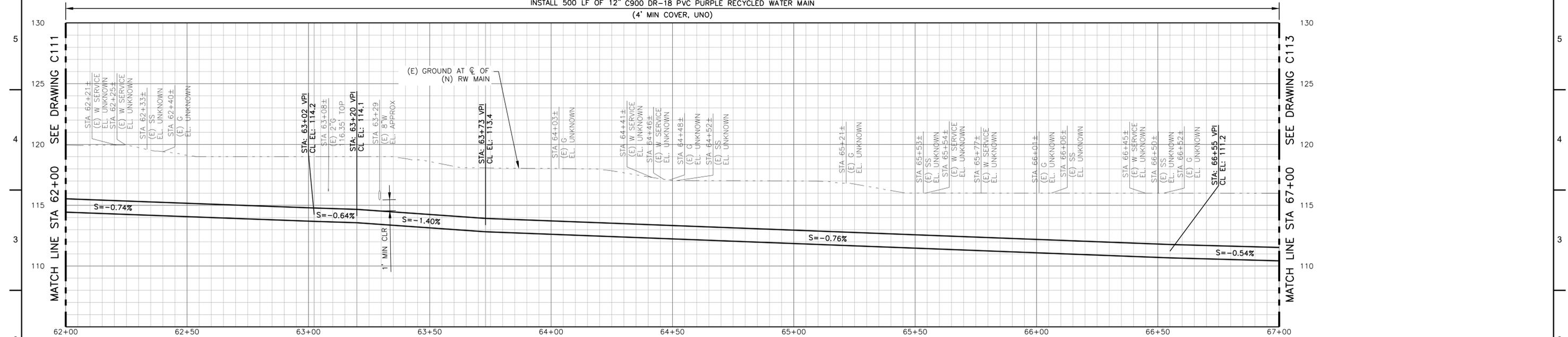


FIRST ST PLAN



| POTHOLE TABLE | | | |
|---------------|-----------------|--------------|-------|
| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
| 16A | GAS | 2" | 32" |
| 16B | GAS | 2" | 32" |

INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN
(4" MIN COVER, UNO)



PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

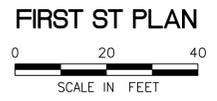
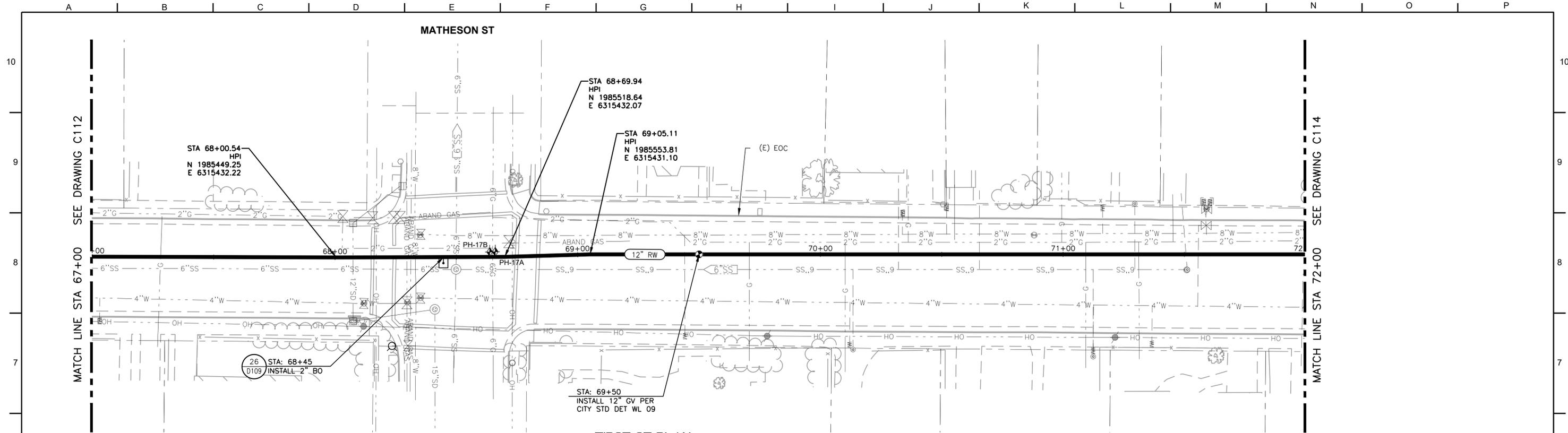
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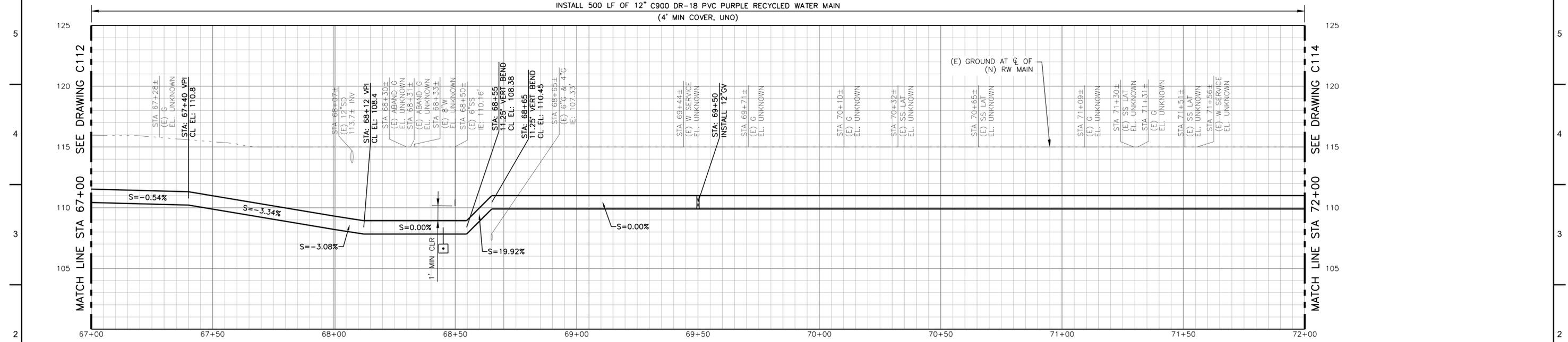
CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 62+00 TO STA 67+00

JOB NUMBER
700-30-22-16
DRAWING NUMBER
C112
SHEET NUMBER
17 OF 43
REVISION

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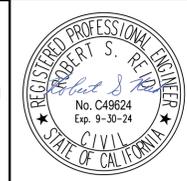


| POTHOLE TABLE | | | |
|---------------|-----------------|--------------|-------|
| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
| 17A | GAS | 6" | 86" |
| 17B | GAS | 4" | 86" |



PROFILE
SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 67+00 TO STA 72+00

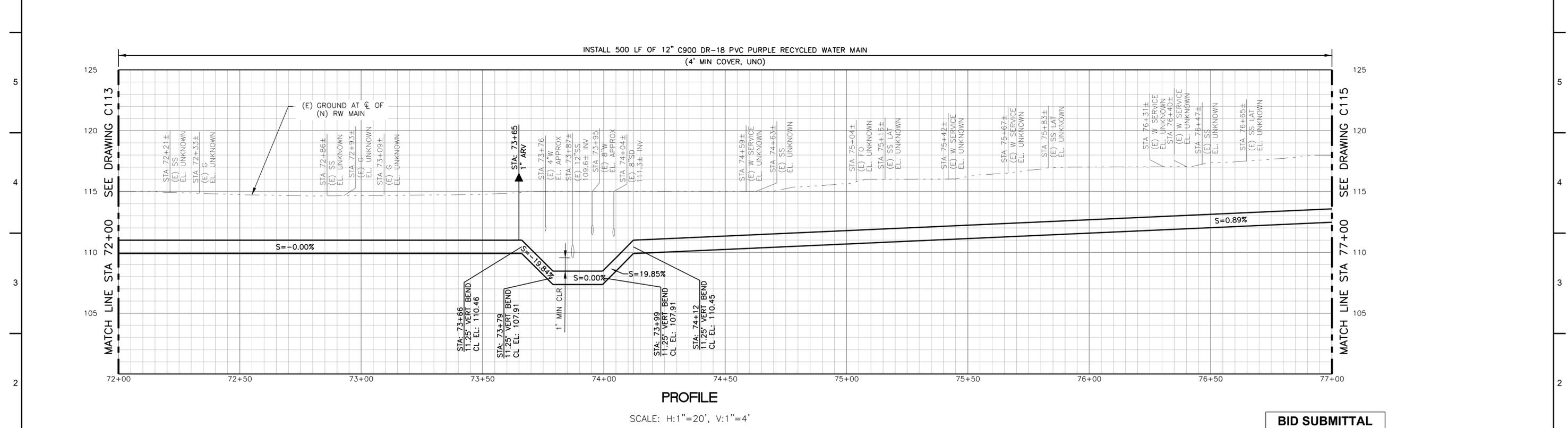
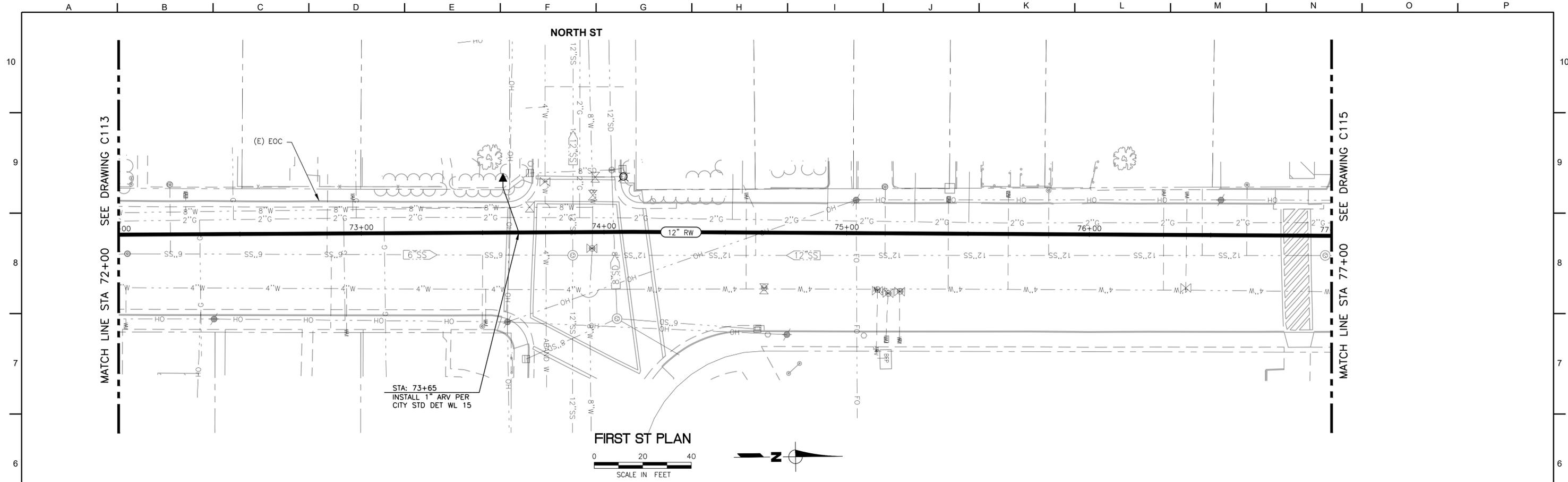
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C113

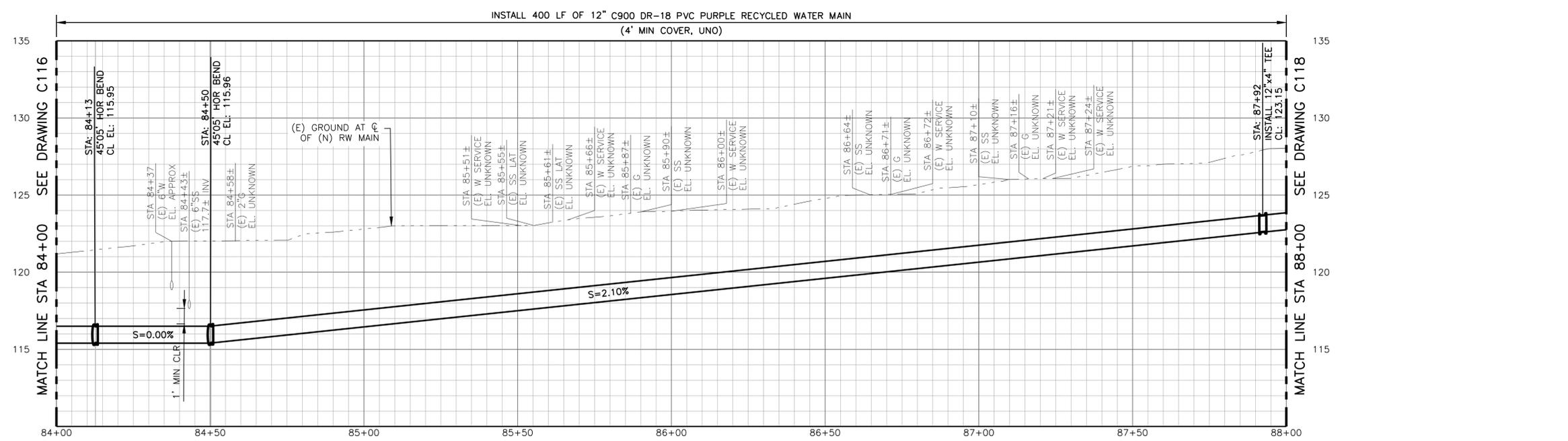
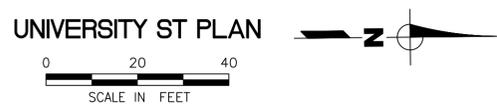
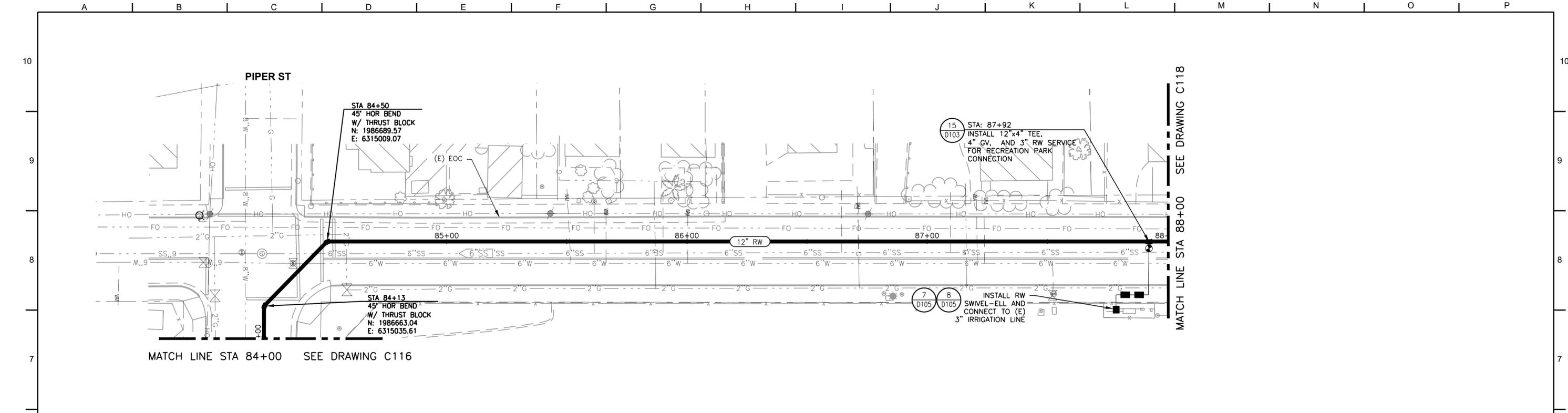
SHEET NUMBER
18 OF **43**

REVISION

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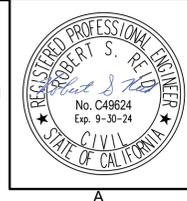


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| <p>QC REVIEW: _____ DATE: _____</p> | <p>THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY</p> <p>SCALE : AS SHOWN DRAWN BY : ER DESIGNED BY : SMG/RSR PROJ. MGR. : RSR</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>ZONE</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | No. | ZONE | REVISIONS | BY | DATE | | | | | | | | | | | | | | | | | | | | | | | <p>CITY OF HEALDSBURG MUNICIPAL RECYCLED WATER PIPELINE</p> <p>PLAN VIEW STA 72+00 TO STA 77+00</p> | <p>JOB NUMBER 700-30-22-16</p> <p>DRAWING NUMBER C114</p> <p>SHEET NUMBER 19 OF 43</p> <p>REVISION</p> |
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PROFILE
SCALE: H:1"=20', V:1"=4'

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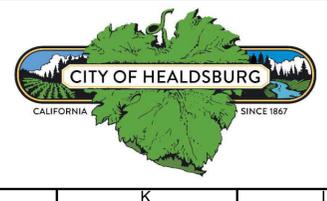


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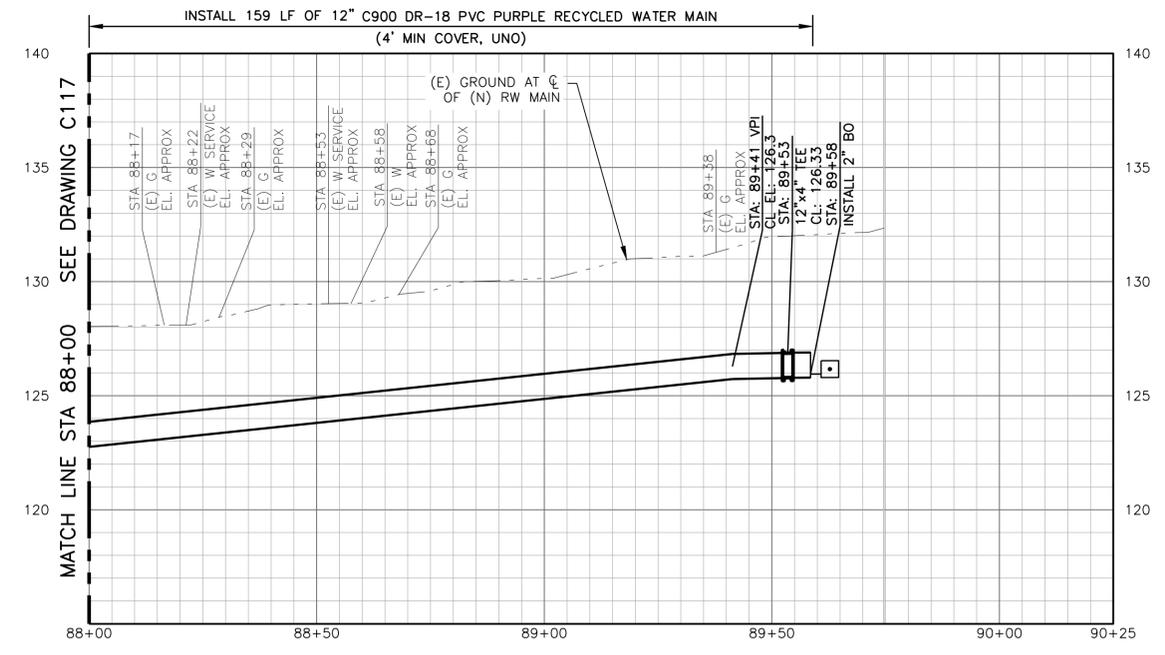
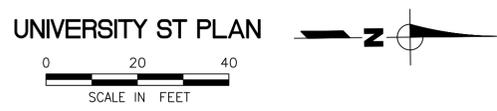
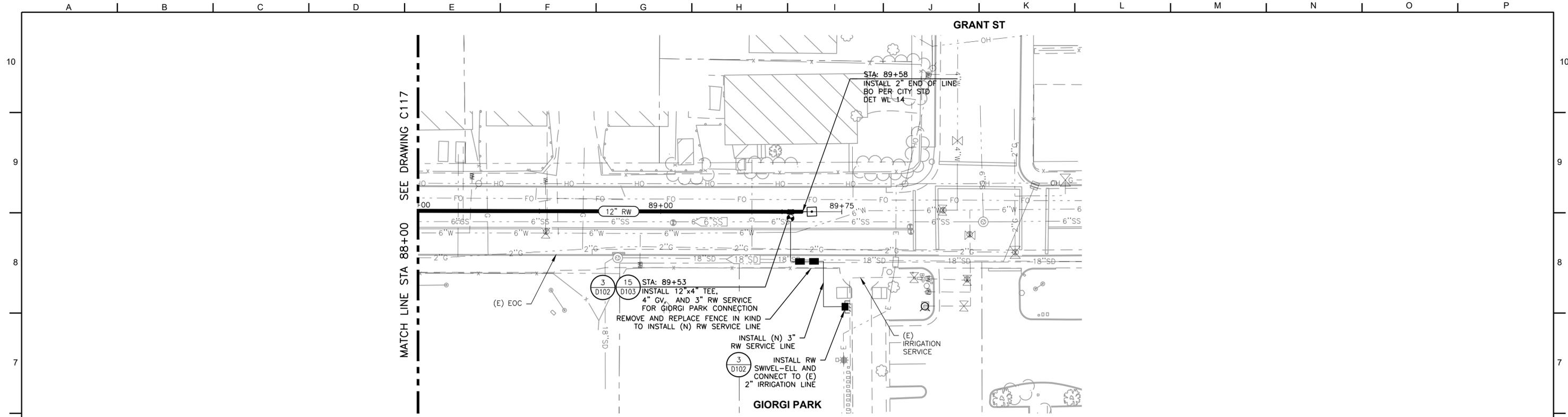
CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 84+00 TO STA 88+00

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C117 |
| SHEET NUMBER 22 OF 43 |
| REVISION |

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PROFILE
SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE : AS SHOWN
DRAWN BY : ER
DESIGNED BY : SMG/RSR
PROJ. MGR. : RSR

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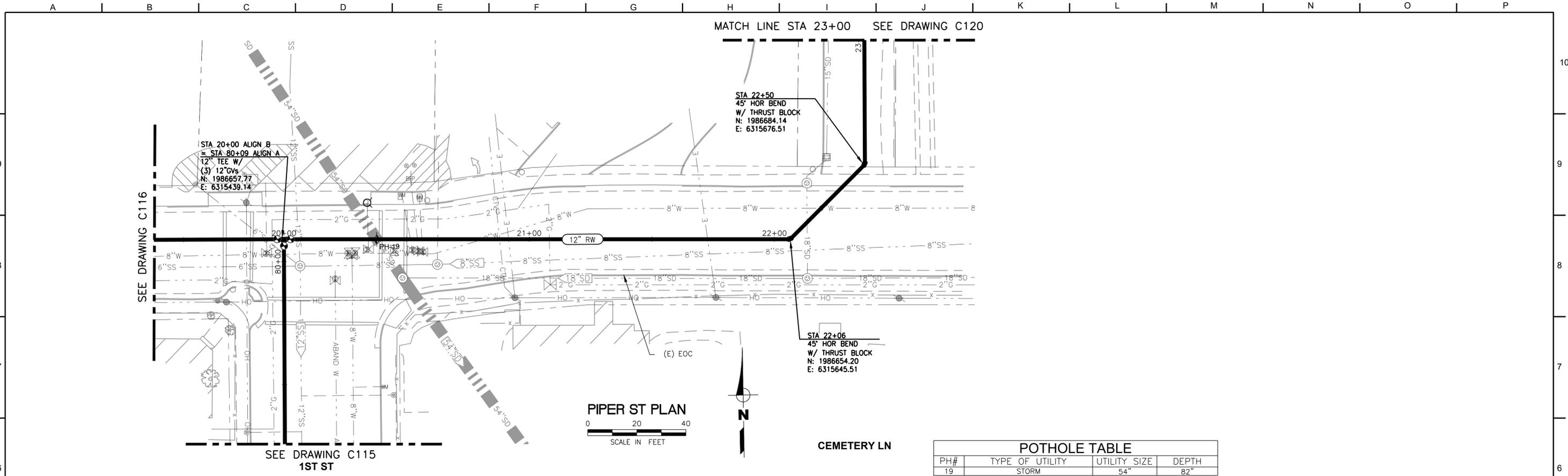


CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

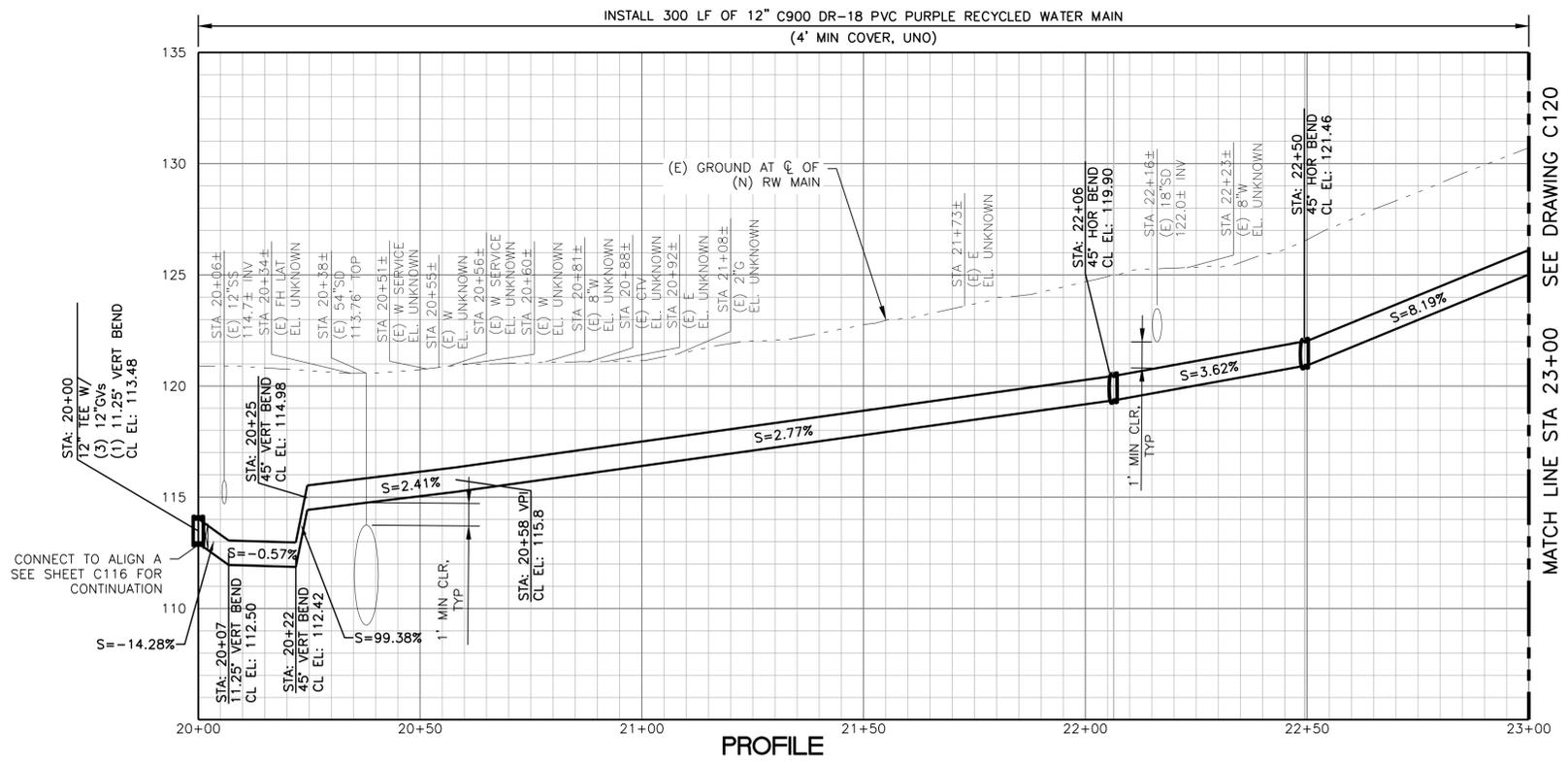
PLAN VIEW STA 88+00 TO END

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C118 |
| SHEET NUMBER 23 OF 43 |
| REVISION |

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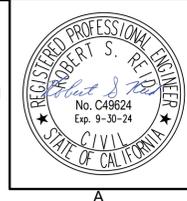


| POTHOLE TABLE | | | |
|---------------|-----------------|--------------|-------|
| PH# | TYPE OF UTILITY | UTILITY SIZE | DEPTH |
| 19 | STORM | 54" | 82" |



PROFILE
SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL

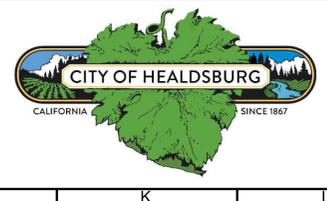


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DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
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DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

| No. | ZONE | REVISIONS | BY | DATE |
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

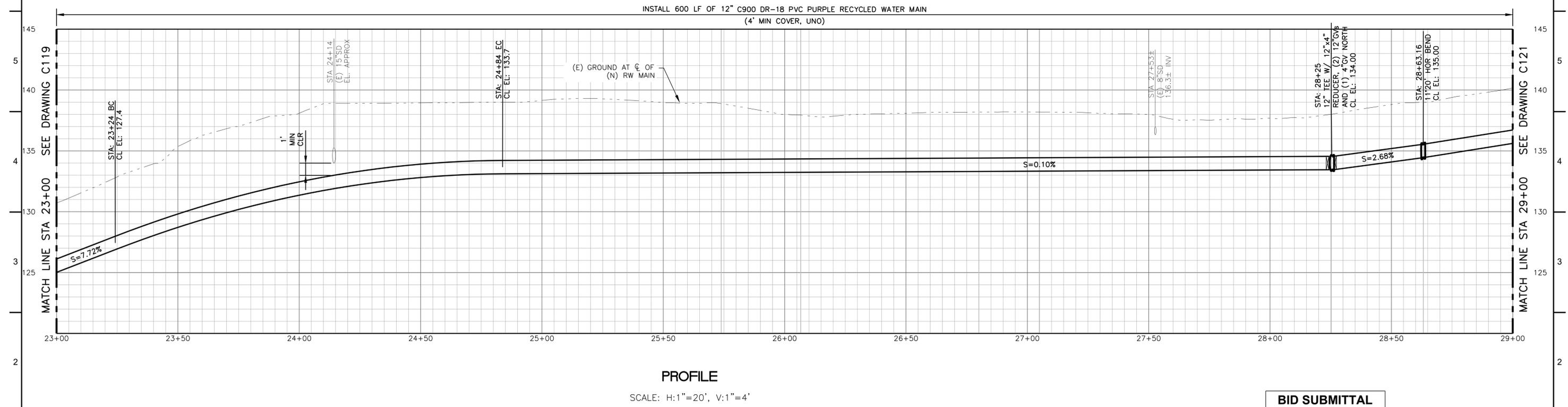
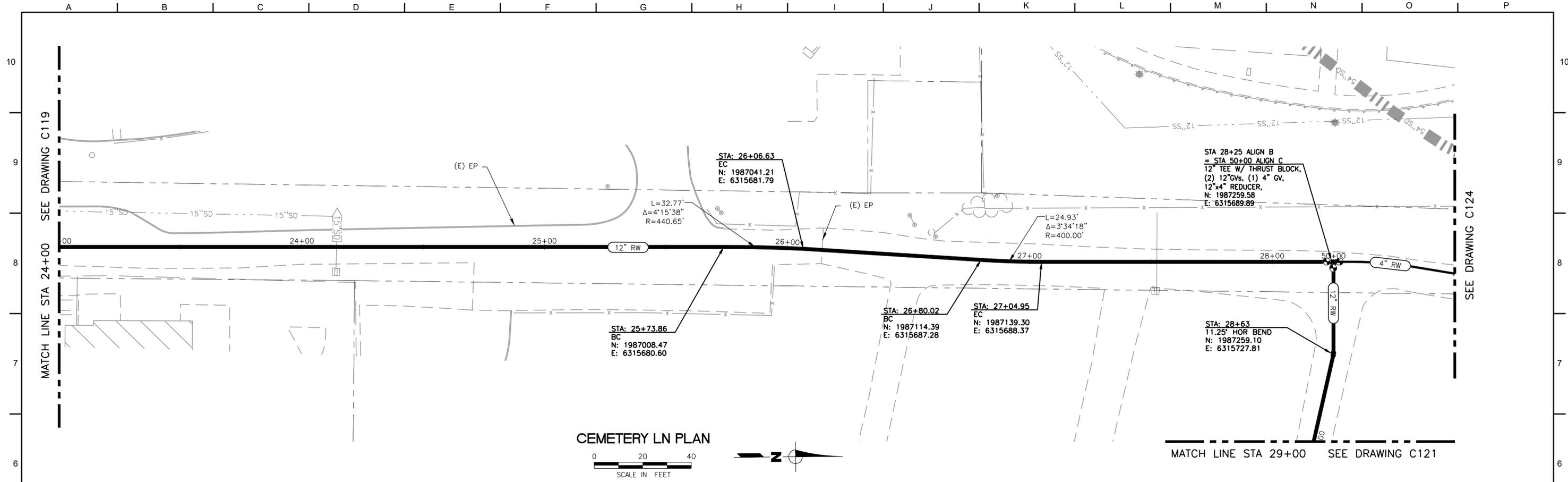
PLAN VIEW STA 20+00 TO STA 24+00

JOB NUMBER
700-30-22-16

DRAWING NUMBER
C119

SHEET NUMBER
24 OF **43**

REVISION



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QC REVIEW: _____
DATE: _____

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NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

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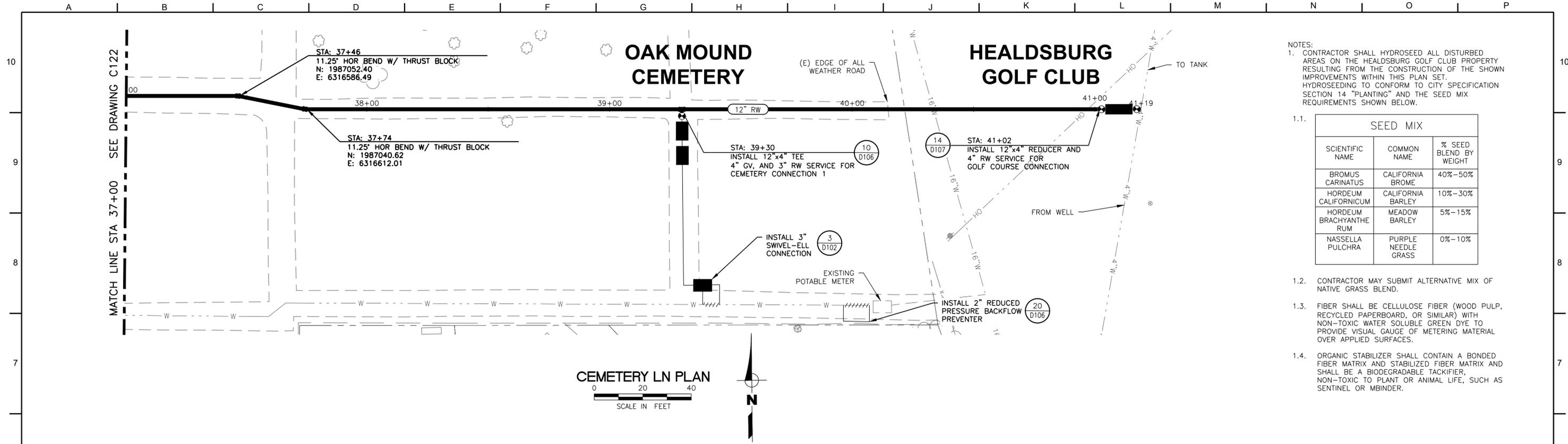


BID SUBMITTAL

CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 24+00 TO STA 29+00

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C120 |
| SHEET NUMBER 25 OF 43 |
| REVISION |



CEMETERY LN PLAN
 SCALE IN FEET
 0 20 40

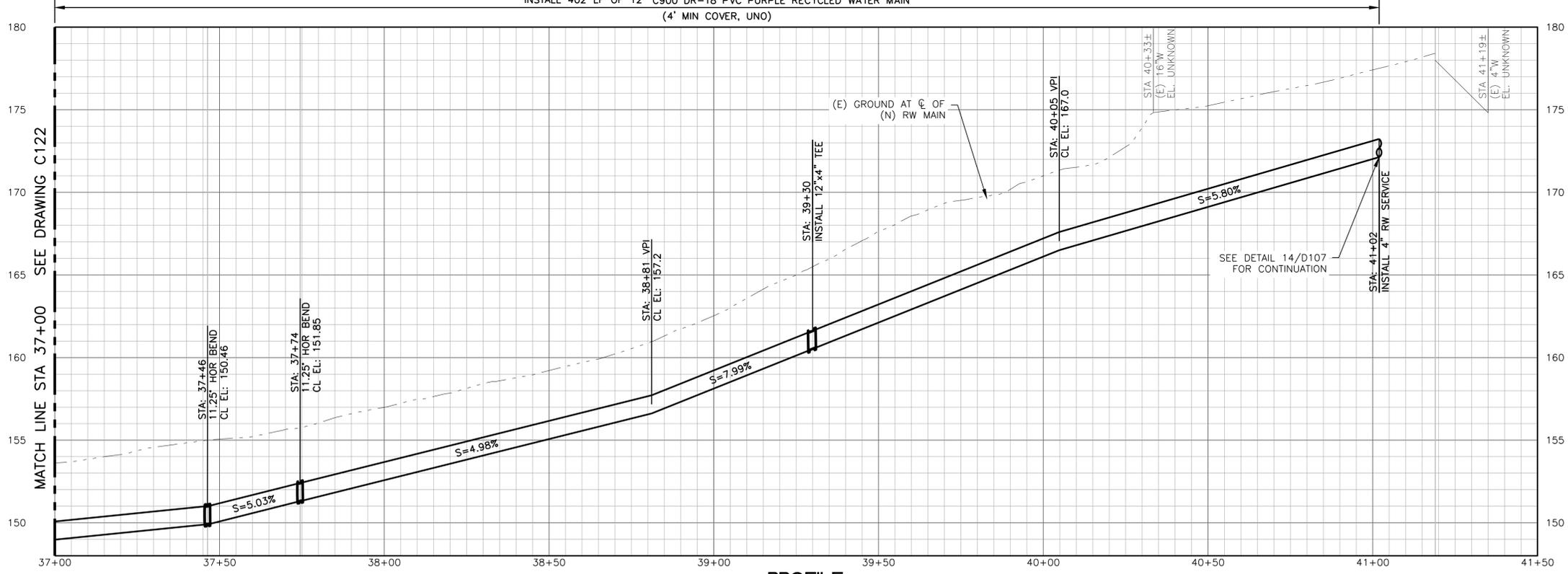
- NOTES:
- CONTRACTOR SHALL HYDROSEED ALL DISTURBED AREAS ON THE HEALDSBURG GOLF CLUB PROPERTY RESULTING FROM THE CONSTRUCTION OF THE SHOWN IMPROVEMENTS WITHIN THIS PLAN SET. HYDROSEEDING TO CONFORM TO CITY SPECIFICATION SECTION 14 "PLANTING" AND THE SEED MIX REQUIREMENTS SHOWN BELOW.

1.1. SEED MIX

| SCIENTIFIC NAME | COMMON NAME | % SEED BLEND BY WEIGHT |
|-------------------------|---------------------|------------------------|
| BROMUS CARINATUS | CALIFORNIA BROME | 40%-50% |
| HORDEUM CALIFORNICUM | CALIFORNIA BARLEY | 10%-30% |
| HORDEUM BRACHYANTHE RUM | MEADOW BARLEY | 5%-15% |
| NASSELLA PULCHRA | PURPLE NEEDLE GRASS | 0%-10% |

- CONTRACTOR MAY SUBMIT ALTERNATIVE MIX OF NATIVE GRASS BLEND.
- FIBER SHALL BE CELLULOSE FIBER (WOOD PULP, RECYCLED PAPERBOARD, OR SIMILAR) WITH NON-TOXIC WATER SOLUBLE GREEN DYE TO PROVIDE VISUAL GAUGE OF METERING MATERIAL OVER APPLIED SURFACES.
- ORGANIC STABILIZER SHALL CONTAIN A BONDED FIBER MATRIX AND STABILIZED FIBER MATRIX AND SHALL BE A BIODEGRADABLE TACKIFIER, NON-TOXIC TO PLANT OR ANIMAL LIFE, SUCH AS SENTINEL OR MBINDER.

INSTALL 402 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN
 (4' MIN COVER, UNO)



PROFILE
 SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
 DATE: _____

THIS LINE IS 1 INCH
 AT FULL SCALE IF
 NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
 DRAWN BY: ER
 DESIGNED BY: SMG/RSR
 PROJ. MGR.: RSR

| No. | ZONE | REVISIONS | BY | DATE |
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 37+00 TO END

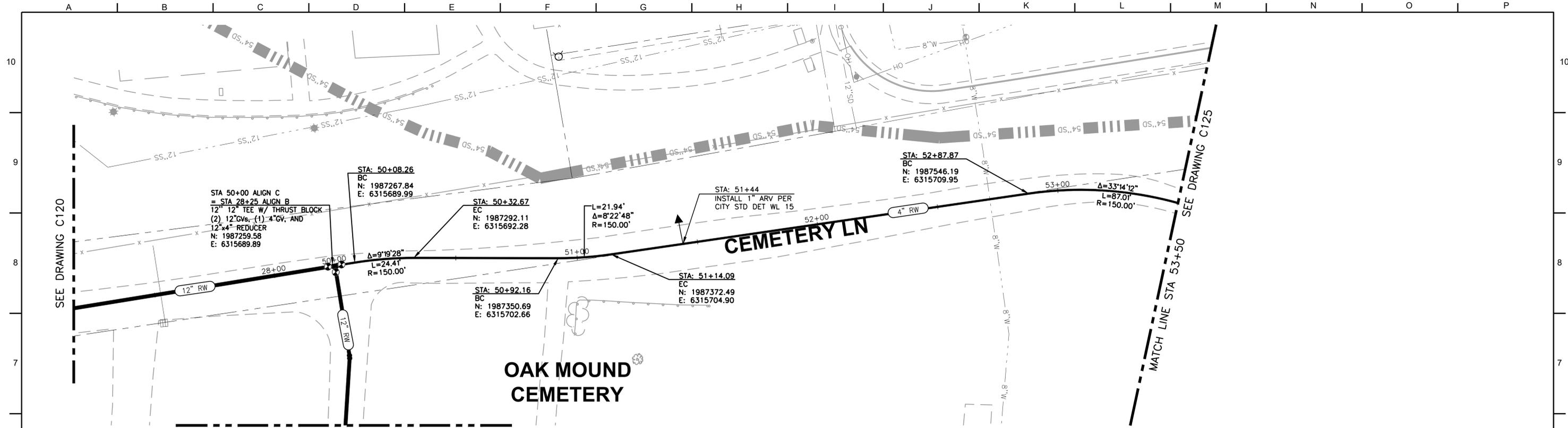
JOB NUMBER
700-30-22-16

DRAWING NUMBER
C123

SHEET NUMBER
28 OF **43**

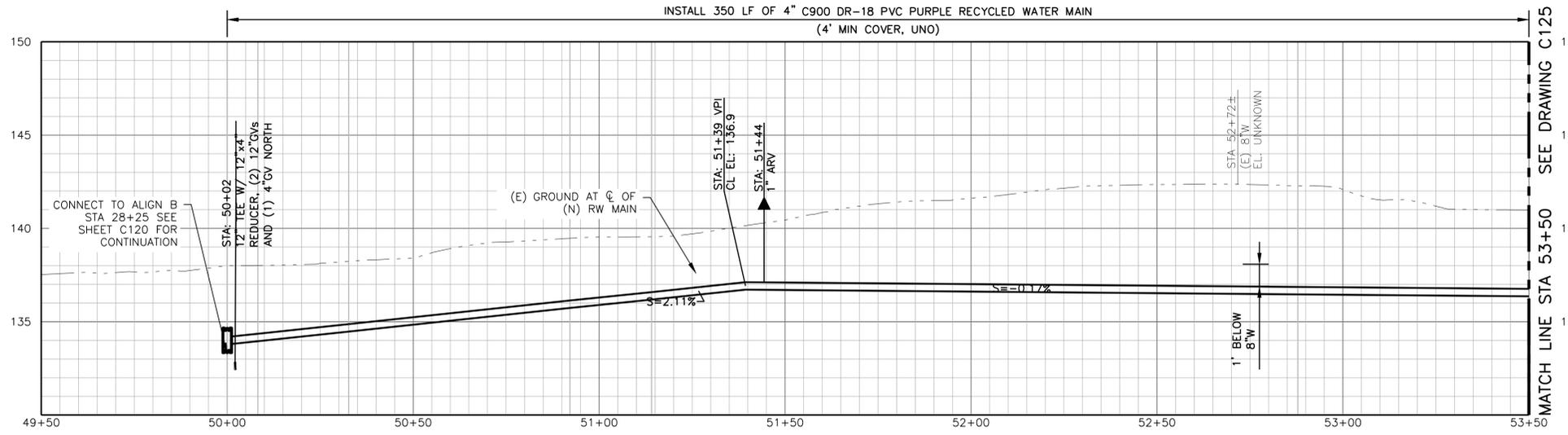
REVISION

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OAK MOUND CEMETERY

CEMETERY LN PLAN



PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
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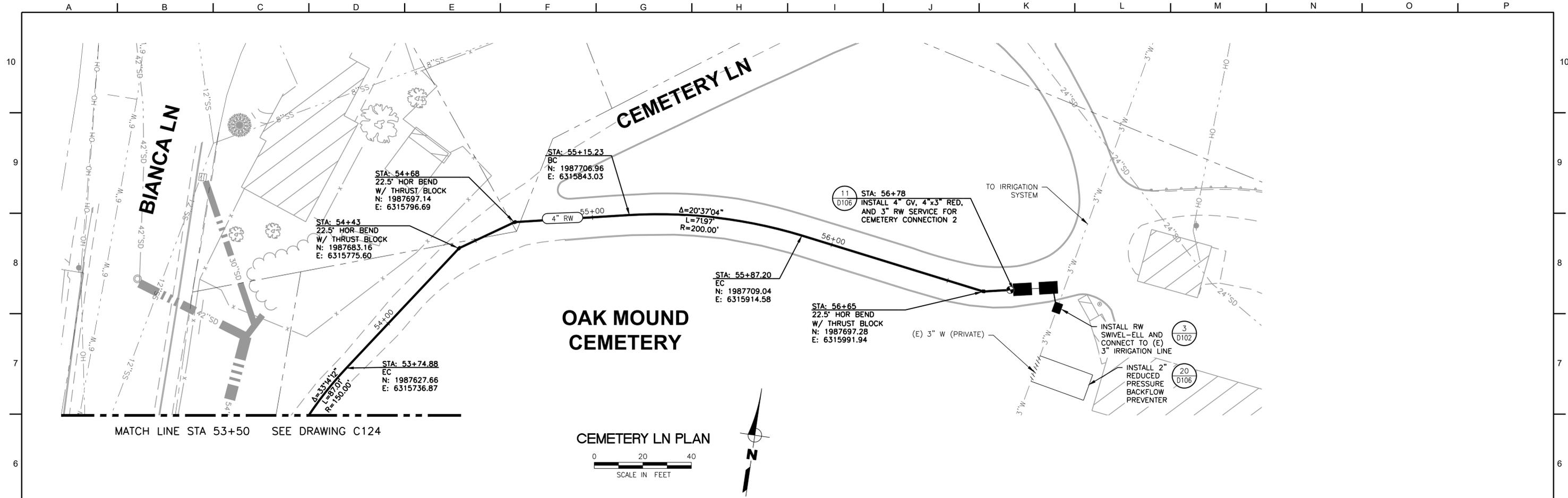


**CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE**

PLAN VIEW STA 50+00 TO STA 53+50

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C124 |
| SHEET NUMBER 29 OF 43 |
| REVISION |

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QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE: AS SHOWN

DRAWN BY: ER

DESIGNED BY: SMG/RSR

PROJ. MGR.: RSR

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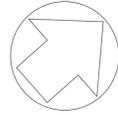


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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

PLAN VIEW STA 53+50 TO END

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C125 |
| SHEET NUMBER 30 OF 43 |
| REVISION |



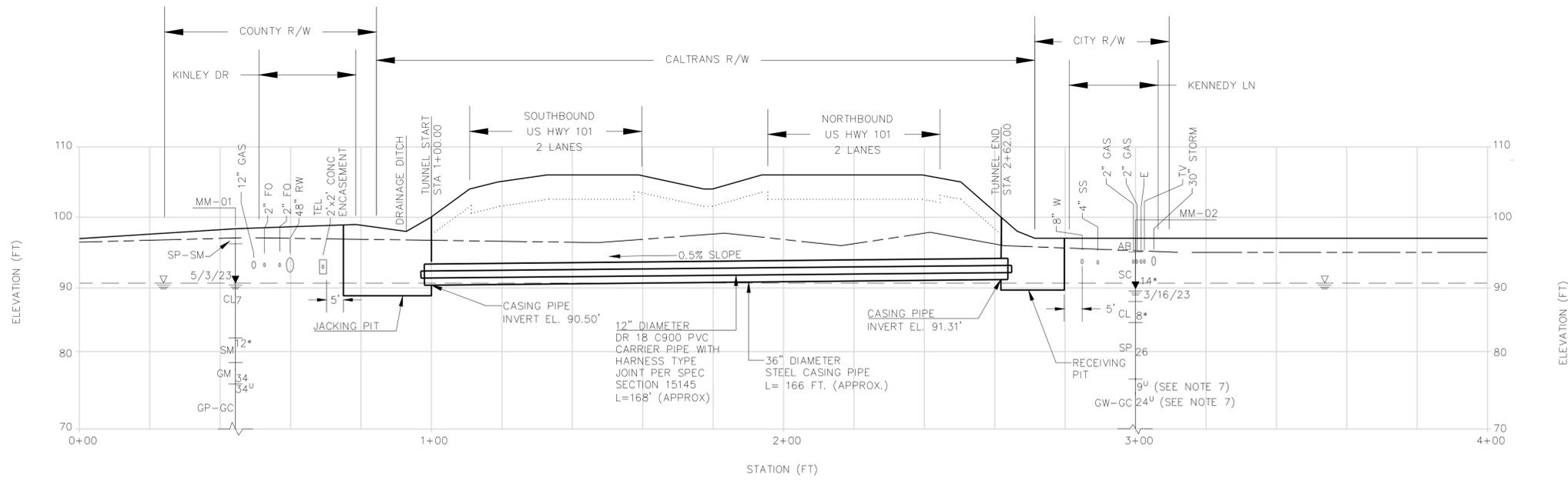
- NOTES:**
- PROJECT DATUMS:
 - HORIZONTAL DATUM: NAVD 1983 CALIFORNIA STATE PLANE ZONE 2.
 - VERTICAL DATUM: NAVD 88
 - MATERIAL REQUIREMENTS
 - MINIMUM STEEL CASING THICKNESS SHALL BE 0.5".
 - MINIMUM STEEL CASING PIPE YIELD STRENGTH SHALL BE 36,000 PSI.
 - BACKFILL ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH CELLULAR GROUT IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - JACKING AND RECEIVING PITS SHOWN ONLY FOR PROJECT UNDERSTANDING. CONTRACTOR IS TO LOCATE, SIZE, DESIGN, AND CONSTRUCT THE PITS ACCORDING TO THEIR REQUIREMENTS AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - CASING PIPE SHALL BE INSTALLED BY HORIZONTAL AUGER BORING.
 - EARTHWORK AND RESTORATION OF WORK AREAS WITHIN CALTRANS ROW SHALL MEET THE CALTRANS ENCROACHMENT PERMIT REQUIREMENTS.
 - "N" IS THE TOTAL MEASURED BLOW COUNT OF THE LAST 12 INCHES OF PENETRATION.
 - BLOW COUNTS OF SAMPLES TAKEN AT 20 FEET AND 22 FEET DEPTHS IN MM-02 WERE PERFORMED IN SLOUGH. SEE GDR FOR ADDITIONAL INFORMATION.



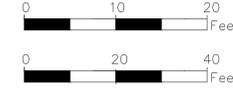
PLAN
SCALE: 1"=20'

- LEGEND:**
- PROJECTION OF MAXIMUM MEASURED GROUNDWATER TABLE
 - MEASURED GROUNDWATER ELEVATION AND DATE (MONTH/DAY/YEAR)
 - MINIMUM DEPTH OF GROUND COVER FOR INSTALLATION PER CALTRANS
 - BTM OF FILL (APPROX)

- GRAPHIC LOG KEY:**
- BORING NAME
- USCS GROUPING: ML (20'), 15', 10', CL
- BLOW COUNT, N
- * = MODIFIED CALIFORNIA SAMPLER
 - U = DAMES & MOORE U-TYPE SAMPLER

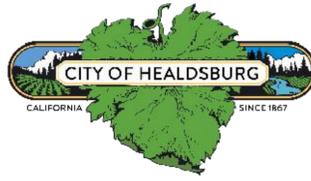


PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



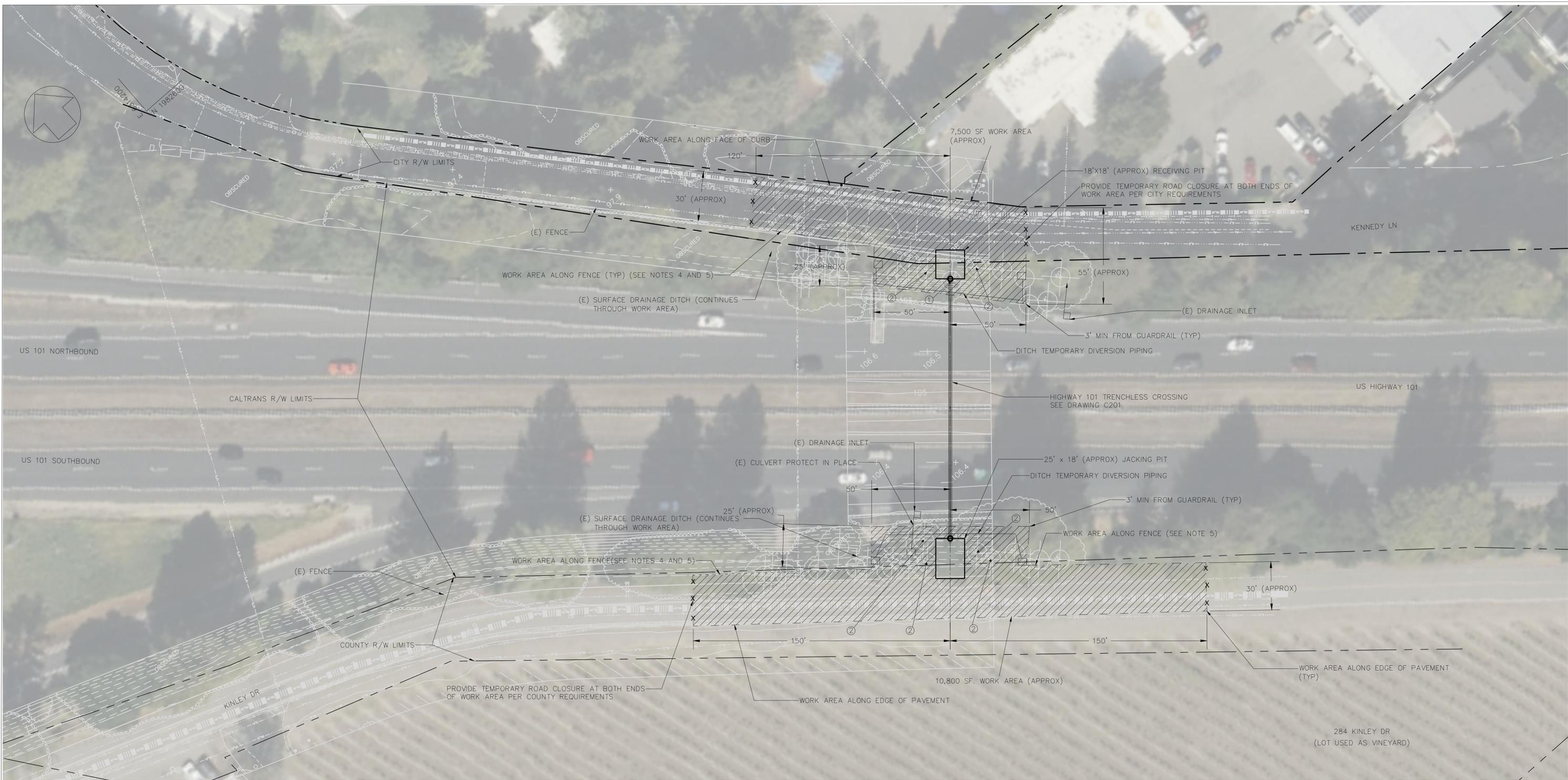
QC REVIEW: T COHEN
DATE: DEC 12, 2023

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| THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY | | | | | |
| SCALE: AS SHOWN | | | | | |
| DRAWN BY: AGR | | | | | |
| DESIGNED BY: JS | | | | | |
| PROJ. MGR.: JNL | | | | | |
| ISSUED FOR BID | 0 | | AGR | 12/15 | |



CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
HWY 101 CROSSING PLAN AND PROFILE

| |
|---------------------------------|
| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER C201 |
| SHEET NUMBER 31 OF 43 |
| REVISION 0 |



- NOTES:**
1. TRAFFIC CONTROL SIGNAGE SHALL BE PROVIDED PER CALTRANS ENCROACHMENT PERMIT.
 2. TEMPORARILY DIVERT SURFACE WATER AROUND WORK AREAS IN ACCORDANCE WITH SECTION 01570. PROVIDE AND MAINTAIN DEVICES FOR STORM WATER MANAGEMENT AND EROSION CONTROL IN ACCORDANCE WITH CALTRANS STANDARDS FOR WORK AREAS WITHIN CALTRANS R/W.
 3. INSTALL DUST CONTROL MEASURES ALONG WORK AREAS ADJACENT TO 284 KINLEY DR.
 4. TEMPORARILY REMOVE FENCE ALONG KENNEDY LANE AND KINLEY ROAD FOR 100-FOOT-WIDE WORK AREAS WITHIN CALTRANS RIGHT-OF-WAY.
 5. WORK AREAS SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH SECTION 02260 AND PER CALTRANS REQUIREMENTS WHEN WITHIN CALTRANS R/W. SURFACE DRAINAGE DITCH SHALL BE RESTORED TO PRE-CONSTRUCTION CAPACITY AND IN ACCORDANCE WITH CALTRANS STANDARD PLANS

PLAN

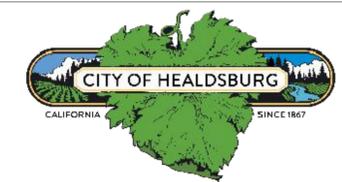
LEGEND:

- TRENCHLESS WORK AREA
- REMOVE TREE
- TREE REMAINS, REMOVE BRANCHES AND ROOTS AS NECESSARY FOR CONSTRUCTION UNDER SUPERVISION OF ARBORIST
- TREE, X"=DIAMETER
- TREE DRIP LINE
- TEMPORARY SUMP INLET/OUTLET
- TEMPORARY ROAD CLOSURE



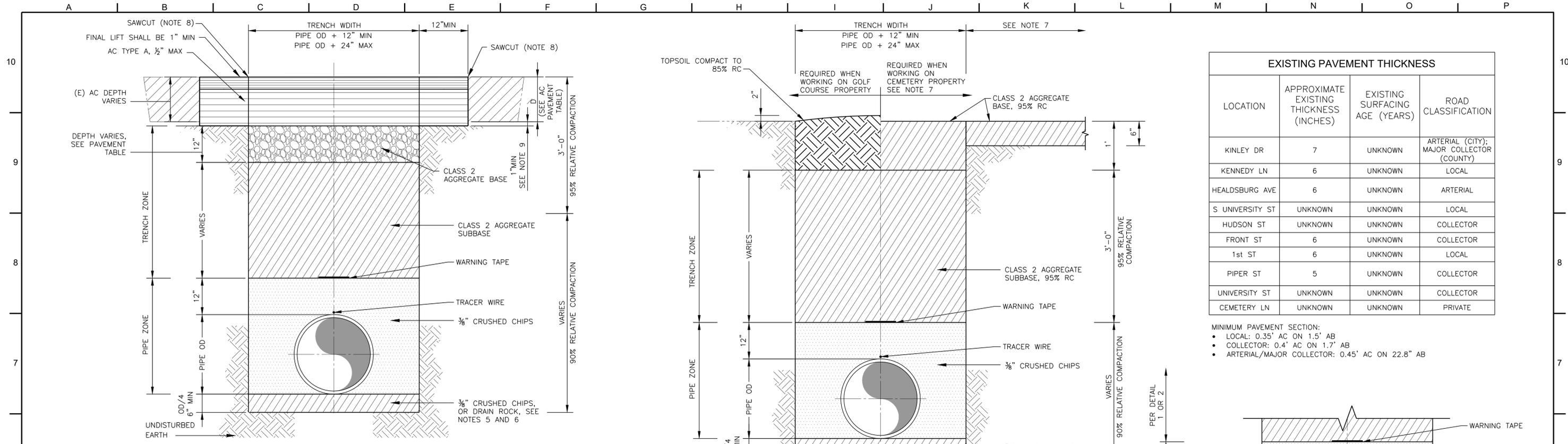
QC REVIEW: T. COHEN
DATE: DEC 12, 2023

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| SCALE : | 1"=30' |
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| DESIGNED BY : | JS |
| PROJ. MGR. : | JNL |
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| | AGR 12/15 |



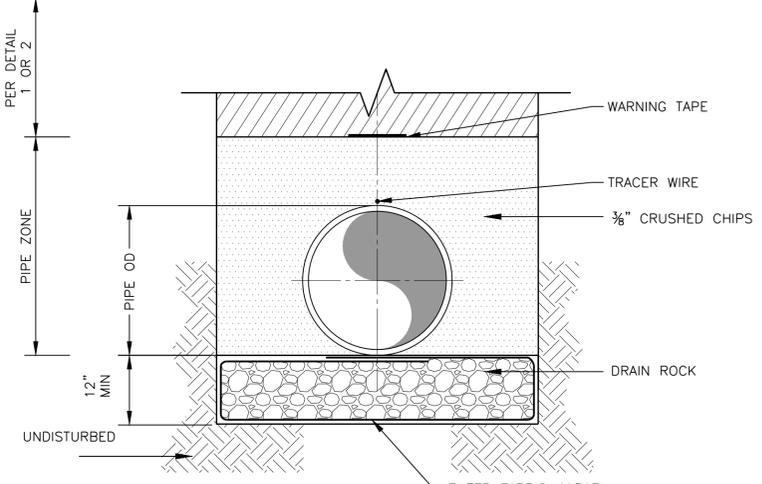
**CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
TRENCHLESS WORK AREAS**

| | |
|----------------|-----------------|
| JOB NUMBER | 700-30-22-16 |
| DRAWING NUMBER | C202 |
| SHEET NUMBER | 32 OF 43 |
| REVISION | 0 |



| EXISTING PAVEMENT THICKNESS | | | |
|-----------------------------|---|--------------------------------|---|
| LOCATION | APPROXIMATE EXISTING THICKNESS (INCHES) | EXISTING SURFACING AGE (YEARS) | ROAD CLASSIFICATION |
| KINLEY DR | 7 | UNKNOWN | ARTERIAL (CITY); MAJOR COLLECTOR (COUNTY) |
| KENNEDY LN | 6 | UNKNOWN | LOCAL |
| HEALDSBURG AVE | 6 | UNKNOWN | ARTERIAL |
| S UNIVERSITY ST | UNKNOWN | UNKNOWN | LOCAL |
| HUDSON ST | UNKNOWN | UNKNOWN | COLLECTOR |
| FRONT ST | 6 | UNKNOWN | COLLECTOR |
| 1st ST | 6 | UNKNOWN | LOCAL |
| PIPER ST | 5 | UNKNOWN | COLLECTOR |
| UNIVERSITY ST | UNKNOWN | UNKNOWN | COLLECTOR |
| CEMETERY LN | UNKNOWN | UNKNOWN | PRIVATE |

MINIMUM PAVEMENT SECTION:
 • LOCAL: 0.35' AC ON 1.5' AB
 • COLLECTOR: 0.4' AC ON 1.7' AB
 • ARTERIAL/MAJOR COLLECTOR: 0.45' AC ON 22.8" AB



- NOTES:
- SEE STANDARD TRENCH DETAIL 1 FOR OTHER TRENCH REQUIREMENTS WITHIN PAVED ROADWAYS.
 - SEE STANDARD TRENCH DETAIL 2 FOR OTHER TRENCH REQUIREMENTS OUTSIDE PAVED ROADWAYS.
 - ENCOMPASS DRAIN ROCK WITH FILTER FABRIC, OVERLAP FABRIC 18 INCHES MINIMUM.
 - COMPACT DRAIN ROCK WITH A MINIMUM 2 PASSES OF A VIBRATORY PLATE.

- NOTES:
- TRENCH SHORING SHALL CONFORM TO CAL OSHA EXCAVATION AND TRENCH SAFETY ORDERS.
 - WATER JETTING OF TRENCH IS NOT ALLOWED.
 - TRENCH WIDTHS SHALL NOT BE CHANGED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
 - TYPE A ASPHALT CONCRETE, CLASS 2 AGGREGATE BASE AND CLASS 2 AGGREGATE SUBBASE SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
 - DRAIN ROCK MAY BE USED ONLY WHEN WET TRENCH CONDITIONS AS DETERMINED BY THE ENGINEER. SEE DETAIL 3 THIS SEE FOR WET TRENCH SECTION.
 - IF DRAIN ROCK IS USED, CONTRACTOR SHALL WRAP ROCK IN GEOTEXTILE FABRIC WITH 18" OVERLAP.
 - RECYCLED MATERIAL IS ALLOWED IN THE TRENCH ZONE. IN THE PIPE ZONE, THE USE OF RECYCLED MATERIALS IS NOT ALLOWED.
 - CONTRACTOR SHALL SAW CUT FOR TRENCH EXCAVATION AS INDICATED. AFTER PIPE IS INSTALLED AND BEFORE FINAL PAVEMENT SECTION IS PLACED, CONTRACTOR SHALL SAW CUT A SECOND TIME TO FORM THE "TEE" SECTION AS INDICATED.
 - REPLACEMENT ASPHALT THICKNESS SHALL BE NOT LESS THAN SHOWN IN EXISTING PAVEMENT THICKNESS TABLE.
 - THIS DETAIL IS APPLICABLE TO CITY OF HEALDSBURG RIGHTS-OF-WAY. SEE DETAILS 4 AND 5 ON SHEET D102 FOR SONOMA COUNTY TRENCH RESTORATION REQUIREMENTS FOR KINLEY DRIVE.
 - BACKFILL FOR BORING AND RECEIVING PITS SHALL BE CLASS 2 AGGREGATE BASE PER THIS DETAIL AND SPEC SECTION 02320.

- NOTES:
- TRENCH SHORING SHALL CONFORM TO CAL OSHA EXCAVATION AND TRENCH SAFETY ORDERS.
 - WATER JETTING OF TRENCH IS NOT ALLOWED.
 - TRENCH WIDTHS SHALL NOT BE CHANGED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
 - DRAIN ROCK MAY BE USED ONLY WHEN WET TRENCH CONDITIONS AS DETERMINED BY THE ENGINEER. SEE DETAIL 3 THIS SEE FOR WET TRENCH SECTION.
 - IF DRAIN ROCK IS USED, CONTRACTOR SHALL WRAP ROCK IN GEOTEXTILE FABRIC WITH 18" OVERLAP.
 - RECYCLED MATERIAL IS ALLOWED IN THE TRENCH ZONE. IN THE PIPE ZONE, THE USE OF RECYCLED MATERIALS IS NOT ALLOWED.
 - CONTRACTOR SHALL REMOVE THE TOP 6" OF CEMETERY ROADS, SCARIFY AND COMPACT THE SUBGRADE TO 95% RC, AND INSTALL 6" OF CLASS 2 AGGREGATE BASE AS SHOWN. ASSUME AN OVERALL ROAD WIDTH OF 15' FOR ALL CEMETERY PROPERTY ROADS.
 - THIS DETAIL IS APPLICABLE TO CITY OF HEALDSBURG RIGHTS-OF-WAY. SEE DETAILS 4 AND 5 ON SHEET D102 FOR SONOMA COUNTY TRENCH RESTORATION REQUIREMENTS FOR KINLEY DRIVE.
 - BACKFILL FOR BORING AND RECEIVING PITS SHALL BE CLASS 2 AGGREGATE BASE PER THIS DETAIL AND SPEC SECTION 02320.

TYPICAL TRENCH SECTION WITHIN PAVED ROADWAY

DETAIL 1
NTS

TYPICAL TRENCH SECTION OUTSIDE PAVED ROADWAY

DETAIL 2
NTS

WET TRENCH SECTION

DETAIL 3
NTS

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

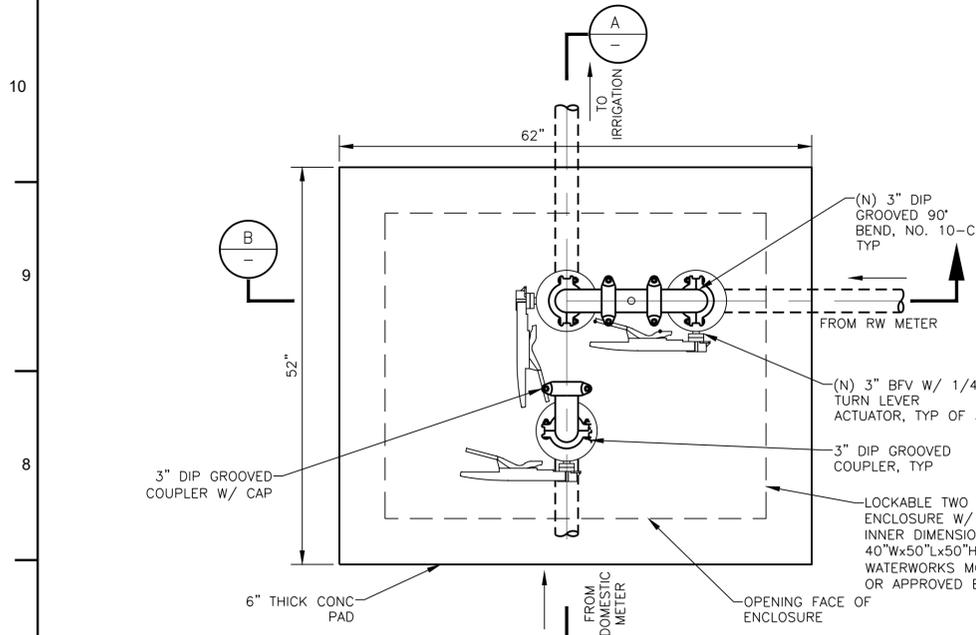
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 1

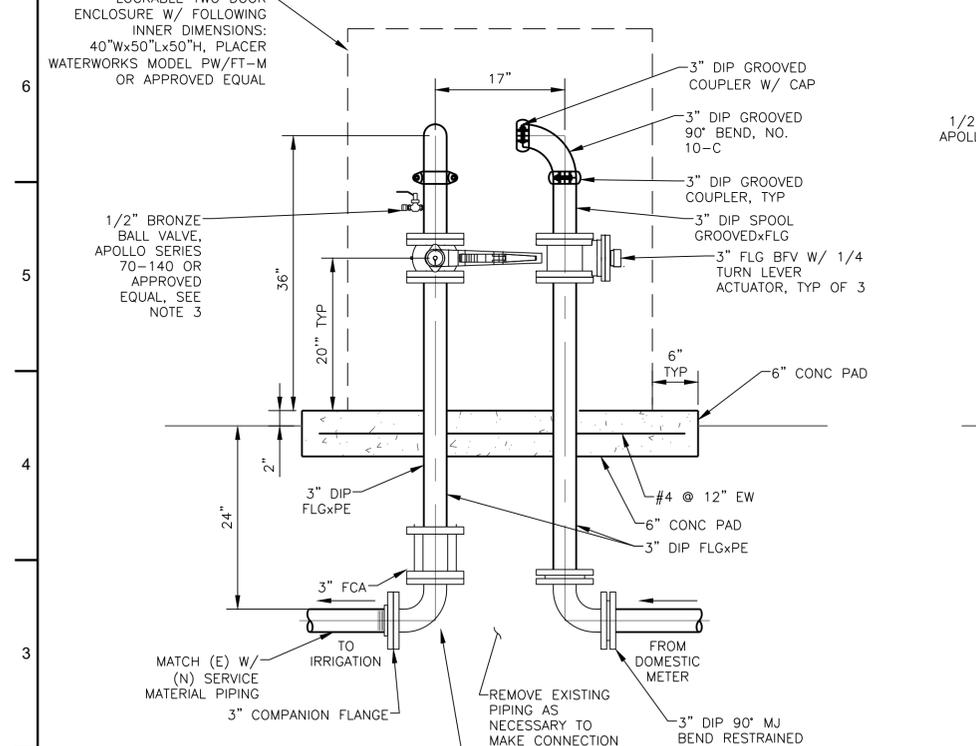
JOB NUMBER
700-30-22-16
DRAWING NUMBER
D101
SHEET NUMBER
33 OF 43
REVISION

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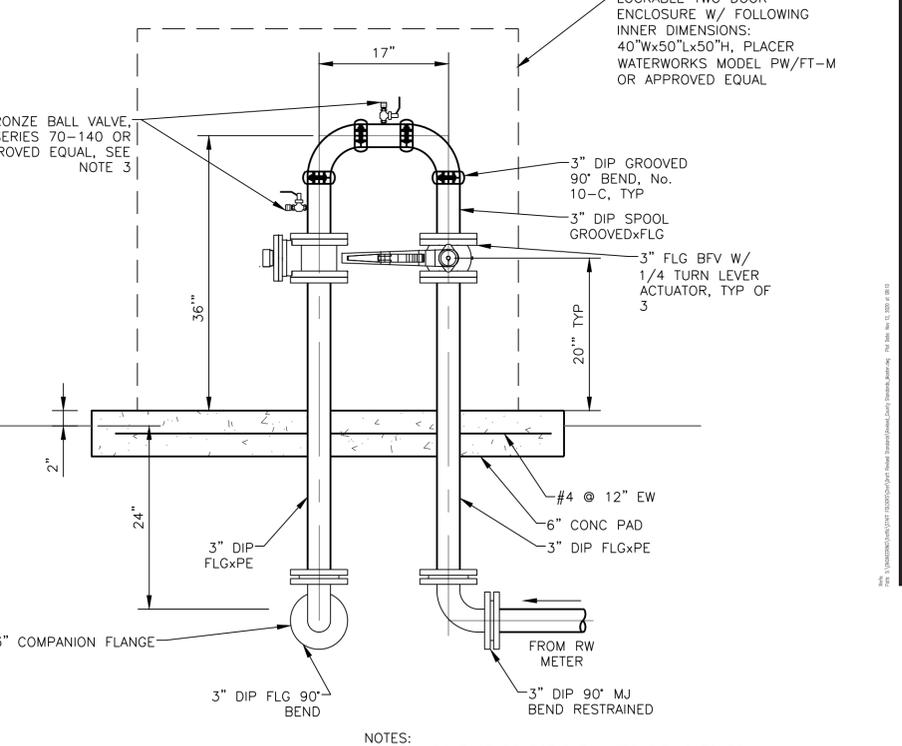
- NOTES:
1. ALL SWIVEL CONNECTION CONFIGURATIONS SHALL BE FIELD FITTED TO CONFIRM SERVICEABILITY AND THAT NO LEAKS ARE PRESENT.
 2. ALL PIPE PENETRATIONS SHALL BE WRAPPED WITH 10-MIL PIPE TAPE. TAPE OVERLAP SHALL BE A MINIMUM OF HALF THE TAPE WIDTH. TAPE WRAP SHALL CONTINUE 4" ABOVE AND BELOW GRADE.
 3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS AND BUSHINGS TO CONNECT (N) 3" SERVICE PIPING TO EXISTING SERVICE PIPING. EXISTING SERVICE PIPING SIZES SHALL BE VERIFIED PRIOR TO ORDERING MATERIALS.

RECYCLED WATER SWIVEL-ELL ENCLOSURE
 DETAIL 3
 SCALE: 1"=1'-0"



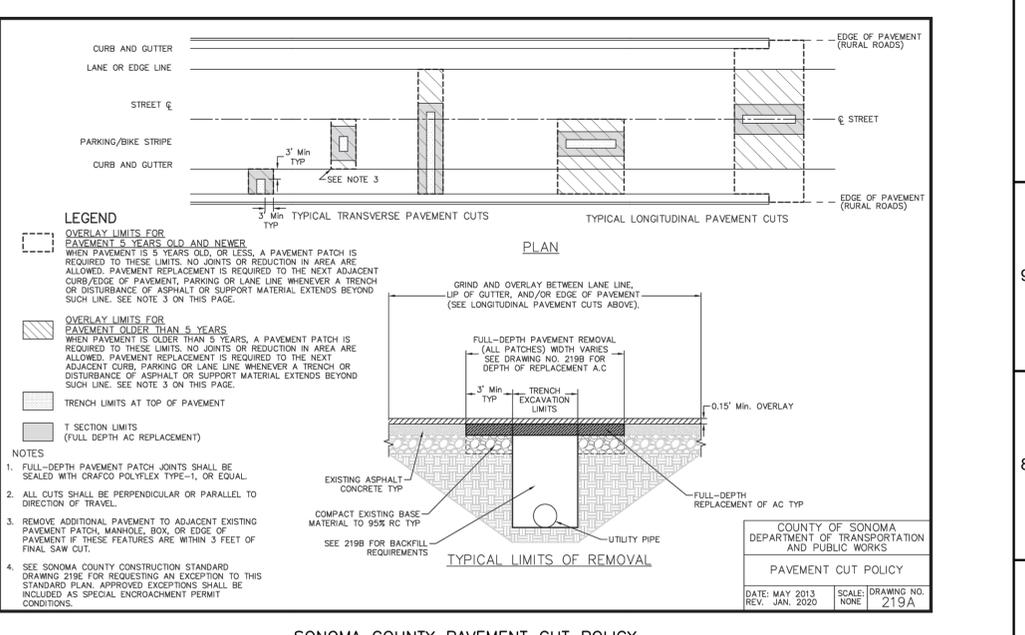
- NOTES:
1. ALL ABOVE GRADE RECYCLED WATER PIPING TO BE COATED WITH PANTONE 512 (PURPLE) EPOXY PER SPECIFICATIONS.
 2. RESTRAIN ALL JOINTS.
 3. DIRECT TAP 3" DUCTILE IRON PIPE WITH 1/2" TAP ON PIPE TO IRRIGATION SYSTEM. INSTALL 1/2" BRONZE NIPPLE AND BALL VALVE W/ CAP.

SECTION A-A
 SCALE: 1"=1'-0"

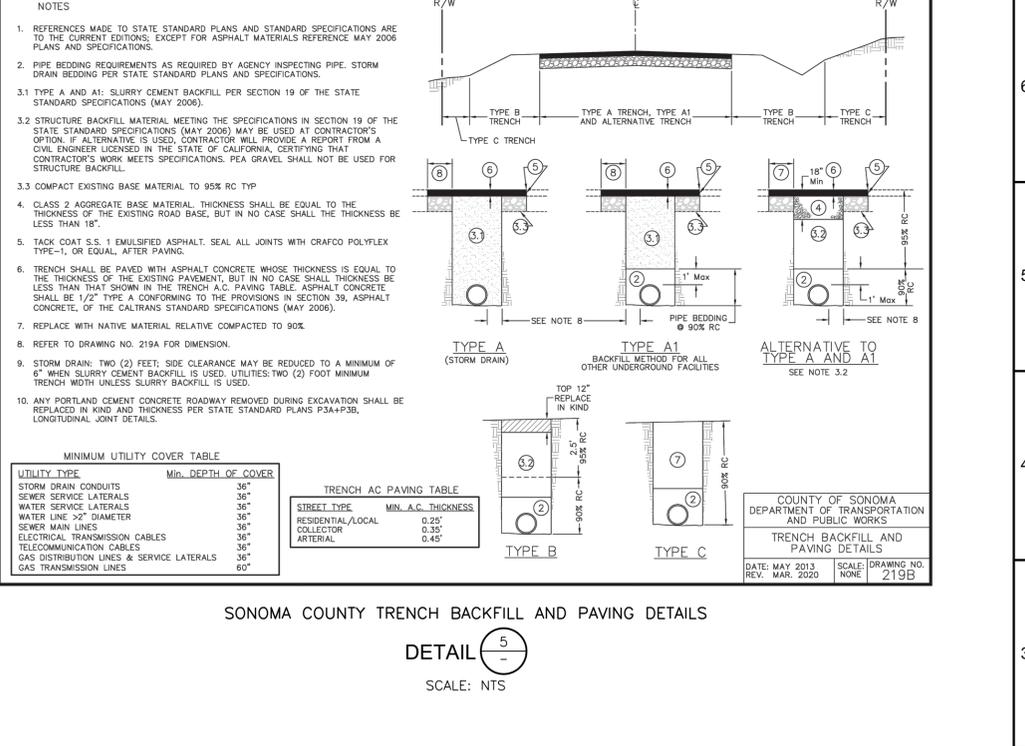


- NOTES:
1. ALL ABOVE GRADE POTABLE WATER PIPING TO BE COATED WITH SAFETY BLUE EPOXY PER SPECIFICATIONS.
 2. RESTRAIN ALL JOINTS.
 3. DIRECT TAP 3" DUCTILE IRON PIPE WITH 1/2" TAP ON PIPE TO IRRIGATION SYSTEM. INSTALL 1/2" BRONZE NIPPLE AND BALL VALVE W/ CAP.

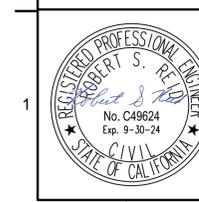
SECTION B-B
 SCALE: 1"=1'-0"



SONOMA COUNTY PAVEMENT CUT POLICY
 DETAIL 4
 SCALE: NTS



SONOMA COUNTY TRENCH BACKFILL AND PAVING DETAILS
 DETAIL 5
 SCALE: NTS



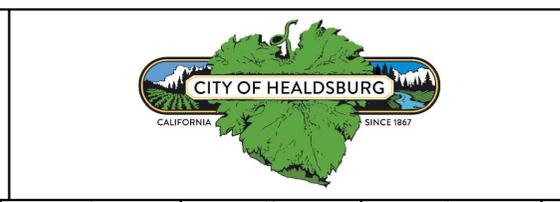
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SCALE: AS SHOWN

DRAWN BY: ER
 DESIGNED BY: SMG/RSR
 PROJ. MGR.: RSR

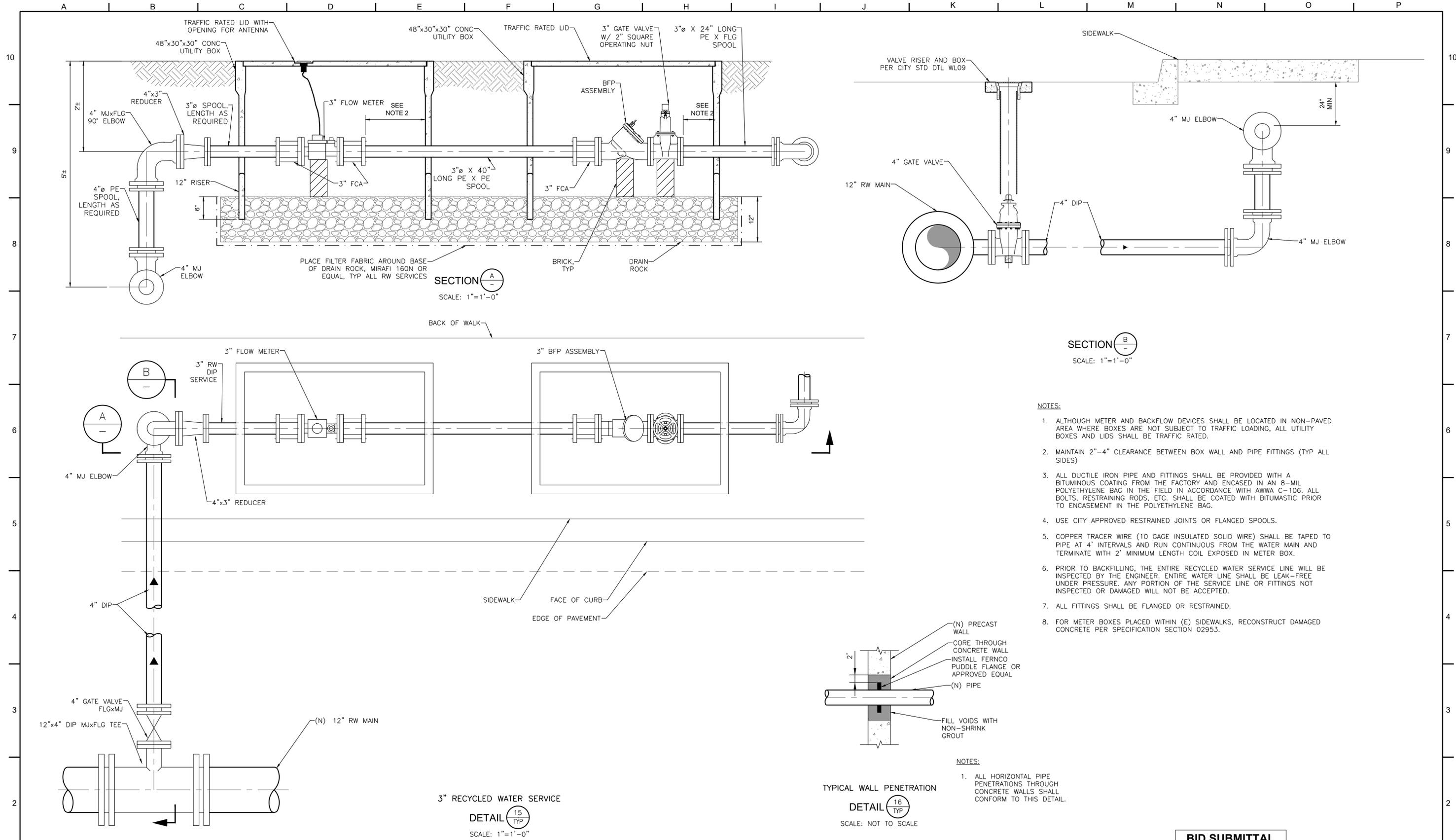
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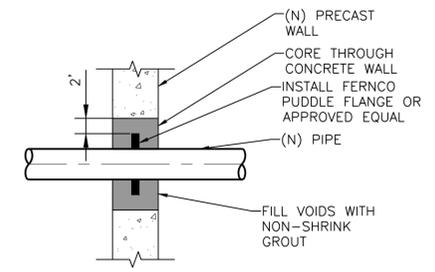
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 2

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER D102 |
| SHEET NUMBER 34 OF 43 |
| REVISION |



- NOTES:**
- ALTHOUGH METER AND BACKFLOW DEVICES SHALL BE LOCATED IN NON-PAVED AREA WHERE BOXES ARE NOT SUBJECT TO TRAFFIC LOADING, ALL UTILITY BOXES AND LIDS SHALL BE TRAFFIC RATED.
 - MAINTAIN 2"-4" CLEARANCE BETWEEN BOX WALL AND PIPE FITTINGS (TYP ALL SIDES)
 - ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED WITH A BITUMINOUS COATING FROM THE FACTORY AND ENCASED IN AN 8-MIL POLYETHYLENE BAG IN THE FIELD IN ACCORDANCE WITH AWWA C-106. ALL BOLTS, RESTRAINING RODS, ETC. SHALL BE COATED WITH BITUMASTIC PRIOR TO ENCASEMENT IN THE POLYETHYLENE BAG.
 - USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS.
 - COPPER TRACER WIRE (10 GAGE INSULATED SOLID WIRE) SHALL BE TAPED TO PIPE AT 4' INTERVALS AND RUN CONTINUOUS FROM THE WATER MAIN AND TERMINATE WITH 2' MINIMUM LENGTH COIL EXPOSED IN METER BOX.
 - PRIOR TO BACKFILLING, THE ENTIRE RECYCLED WATER SERVICE LINE WILL BE INSPECTED BY THE ENGINEER. ENTIRE WATER LINE SHALL BE LEAK-FREE UNDER PRESSURE. ANY PORTION OF THE SERVICE LINE OR FITTINGS NOT INSPECTED OR DAMAGED WILL NOT BE ACCEPTED.
 - ALL FITTINGS SHALL BE FLANGED OR RESTRAINED.
 - FOR METER BOXES PLACED WITHIN (E) SIDEWALKS, RECONSTRUCT DAMAGED CONCRETE PER SPECIFICATION SECTION 02953.



QC REVIEW: _____
DATE: _____

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DESIGNED BY: SMG/RSR
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

CIVIL DETAILS 3

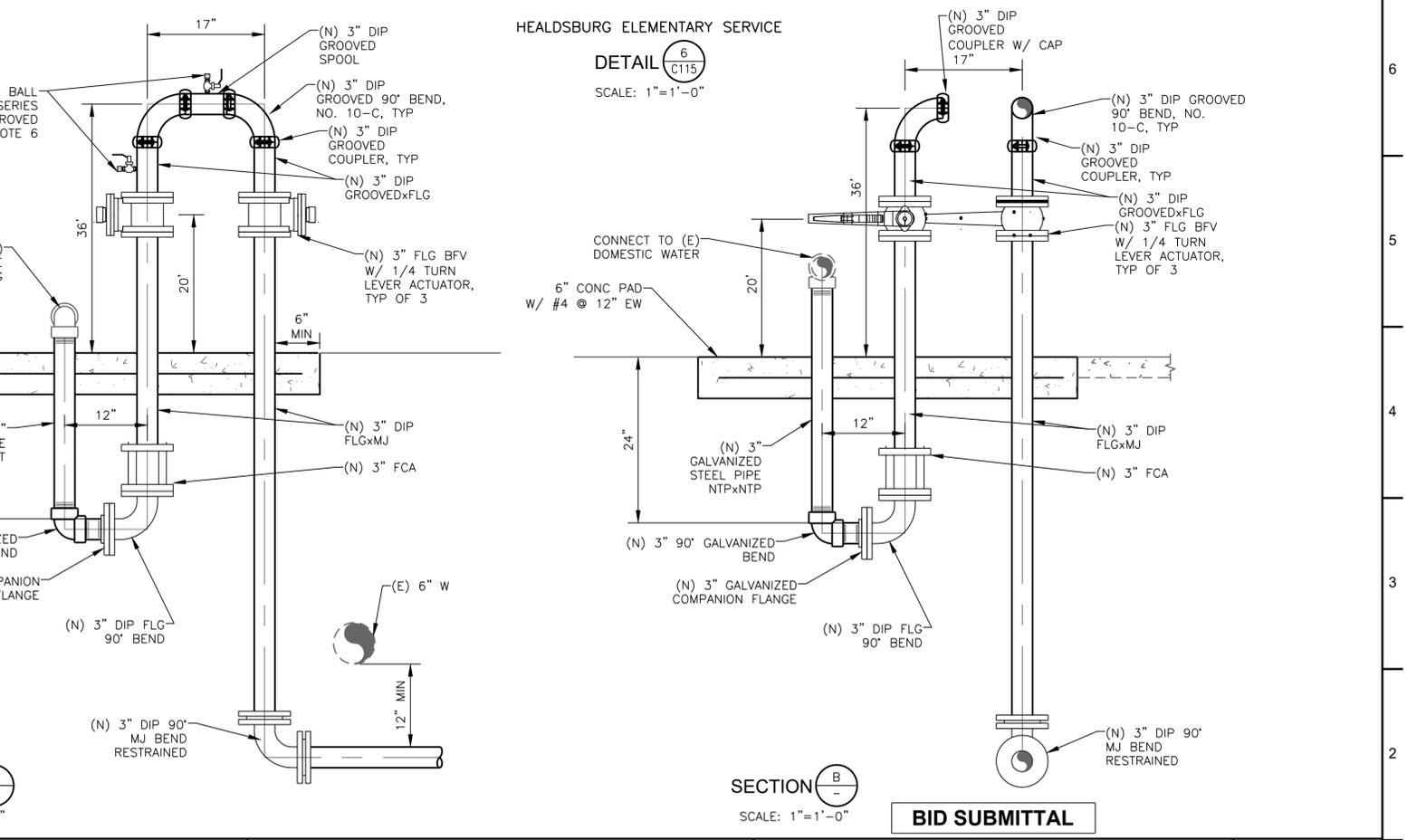
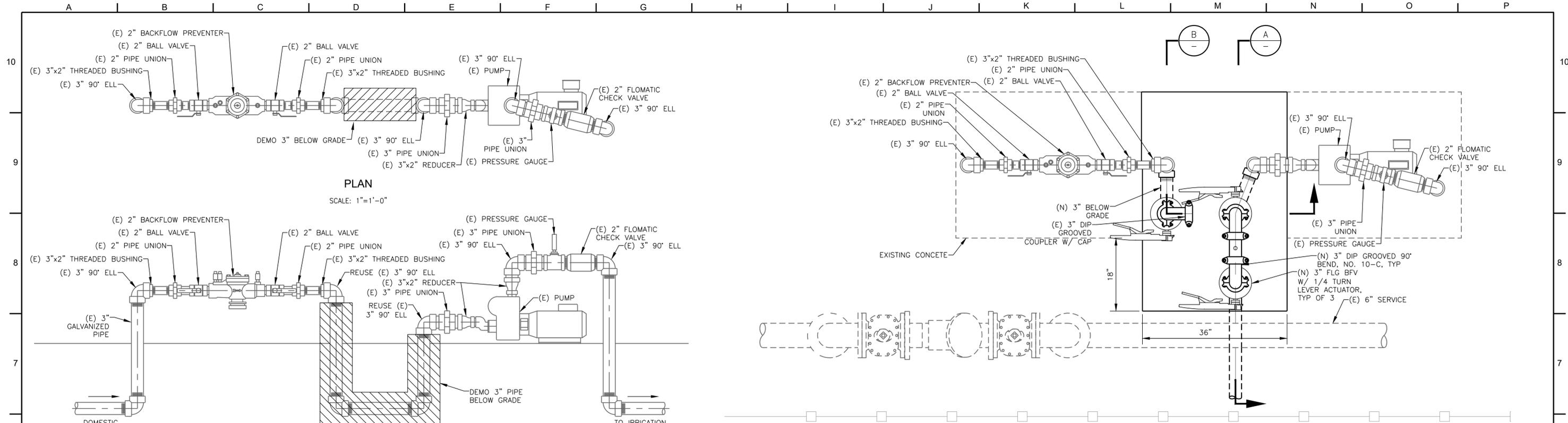
JOB NUMBER
700-30-22-16

DRAWING NUMBER
D103

SHEET NUMBER
35 OF 43

REVISION

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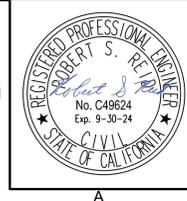
HEALDSBURG ELEMENTARY SERVICE DEMO
DETAIL 5
 C115
 SCALE: AS SHOWN

- NOTES:
- ENGINEER TO PROVIDE PADLOCK FOR EACH BUTTERFLY ACTUATOR.
 - ALL SWIVEL CONNECTION CONFIGURATIONS SHALL BE FIELD FITTED TO CONFIRM SERVICEABILITY AND THAT NO LEAKS ARE PRESENT.
 - ALL ABOVE GRADE RECYCLED WATER PIPING TO BE COATED WITH PANTONE 512 (PURPLE) EPOXY PER SPECIFICATIONS.
 - ALL FITTINGS SHALL BE RESTRAINED.
 - ALL ABOVE GRADE POTABLE WATER PIPING TO BE COATED WITH SAFETY BLUE EPOXY PER SPECIFICATIONS.
 - DIRECT TAP 3" DUCTILE IRON PIPE WITH 1/2" TAP ON PIPE. INSTALL 1/2" BRONZE NIPPLE AND BALL VALVE W/ CAP.

SECTION A
 SCALE: 1"=1'-0"

SECTION B
 SCALE: 1"=1'-0"

BID SUBMITTAL



QC REVIEW: STAN VANDEBERGH
 DATE: 9/2023

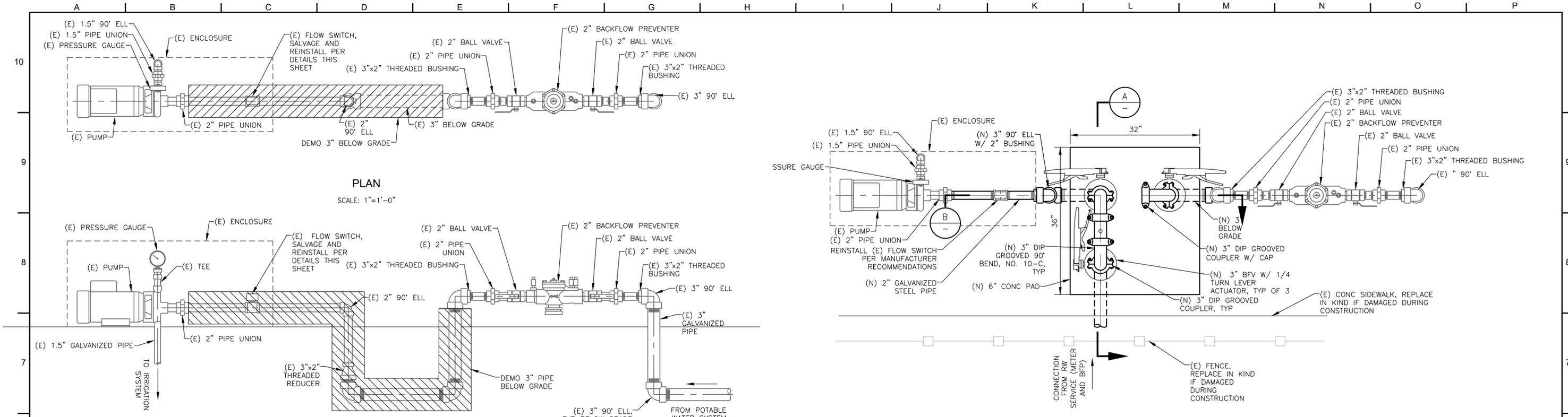
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| THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY | |
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| DRAWN BY: ER | |
| DESIGNED BY: SMG/RSR | |
| PROJ. MGR.: RSR | |
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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 4

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER D104 |
| SHEET NUMBER 36 OF 43 |
| REVISION |

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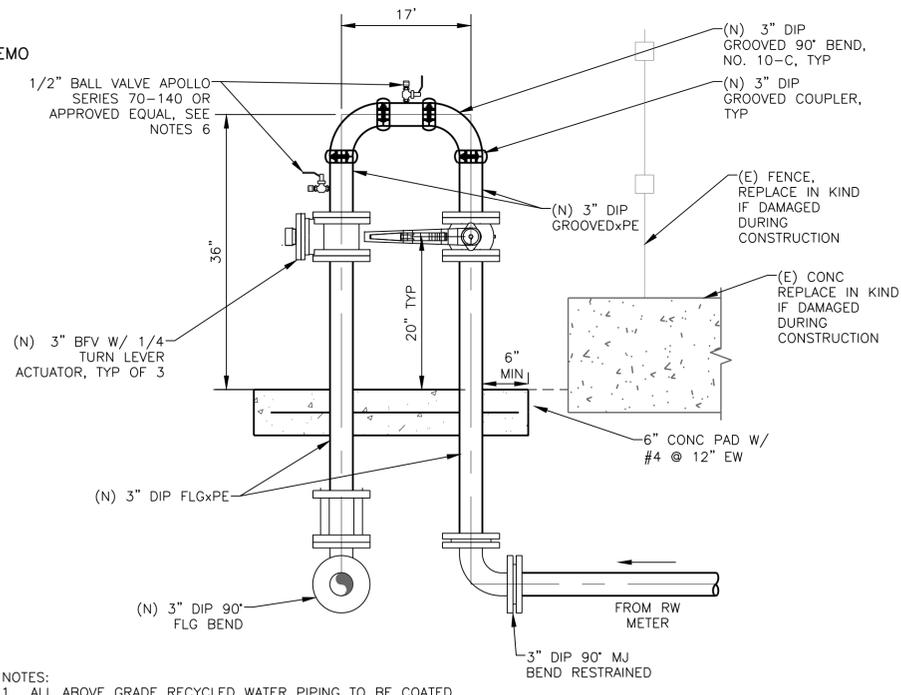
PLAN
SCALE: 1"=1'-0"

PROFILE
SCALE: 1"=1'-0"

EXISTING RECREATION PARK SERVICE AND DEMO

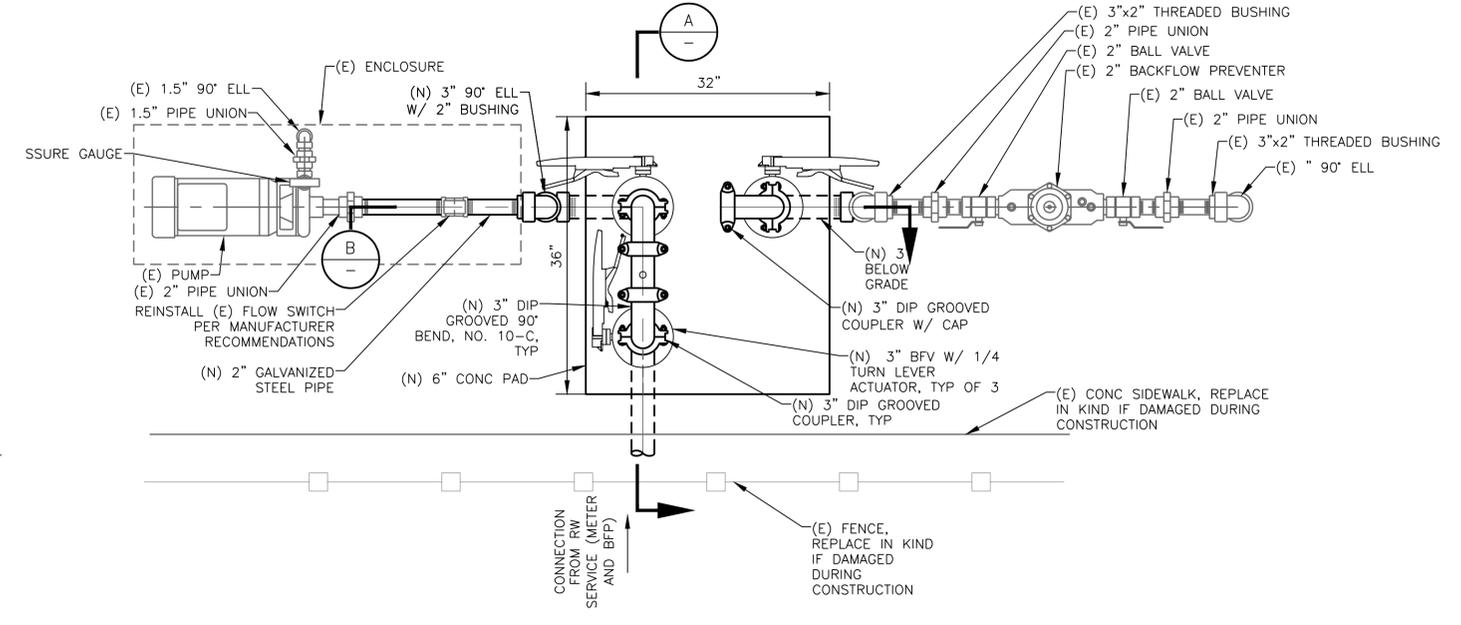
DETAIL 7
SCALE: AS SHOWN

- NOTES:
- ENGINEER TO PROVIDE PADLOCK FOR EACH BUTTERFLY ACTUATOR.
 - ALL SWIVEL CONNECTION CONFIGURATIONS SHALL BE FIELD FITTED TO CONFIRM SERVICEABILITY AND THAT NO LEAKS ARE PRESENT.
 - ALL ABOVE GRADE RECYCLED WATER PIPING TO BE COATED WITH PANTONE 512 (PURPLE) EPOXY PER SPECIFICATIONS.
 - ALL FITTINGS SHALL BE RESTRAINED.
 - ALL ABOVE GRADE POTABLE WATER PIPING TO BE COATED WITH SAFETY BLUE EPOXY PER SPECIFICATIONS.
 - DIRECT TAP 3" DUCTILE IRON PIPE WITH 1/2" TAP ON PIPE. INSTALL 1/2" BRONZE NIPPLE AND BALL VALVE W/ CAP.

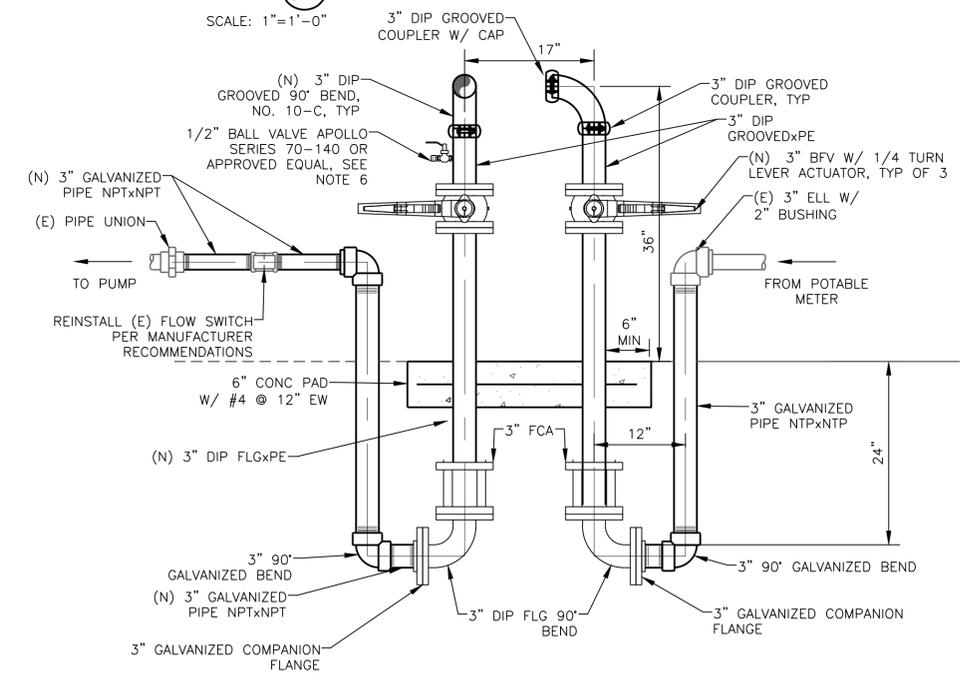


SECTION A
SCALE: 1"=1'-0"

- NOTES:
- ALL ABOVE GRADE RECYCLED WATER PIPING TO BE COATED WITH PANTONE 512 (PURPLE) EPOXY PER SPECIFICATIONS.
 - RESTRAIN ALL JOINTS.



RECREATION PARK SERVICE
DETAIL 8
SCALE: 1"=1'-0"



SECTION B
SCALE: 1"=1'-0"

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DATE: 9/2023

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PROJ. MGR.: RSR

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 5

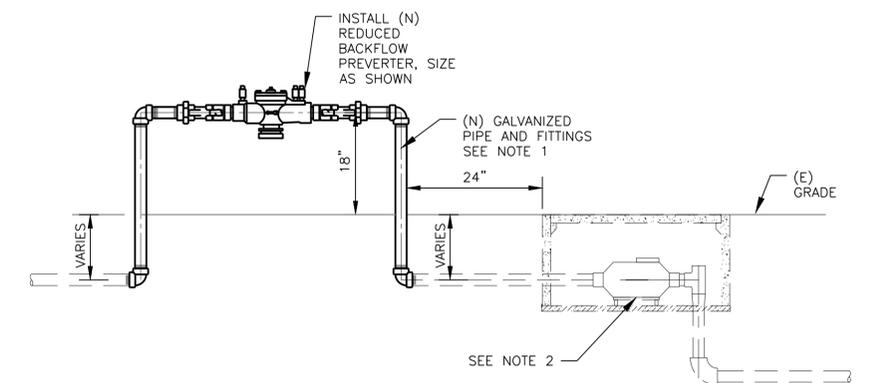
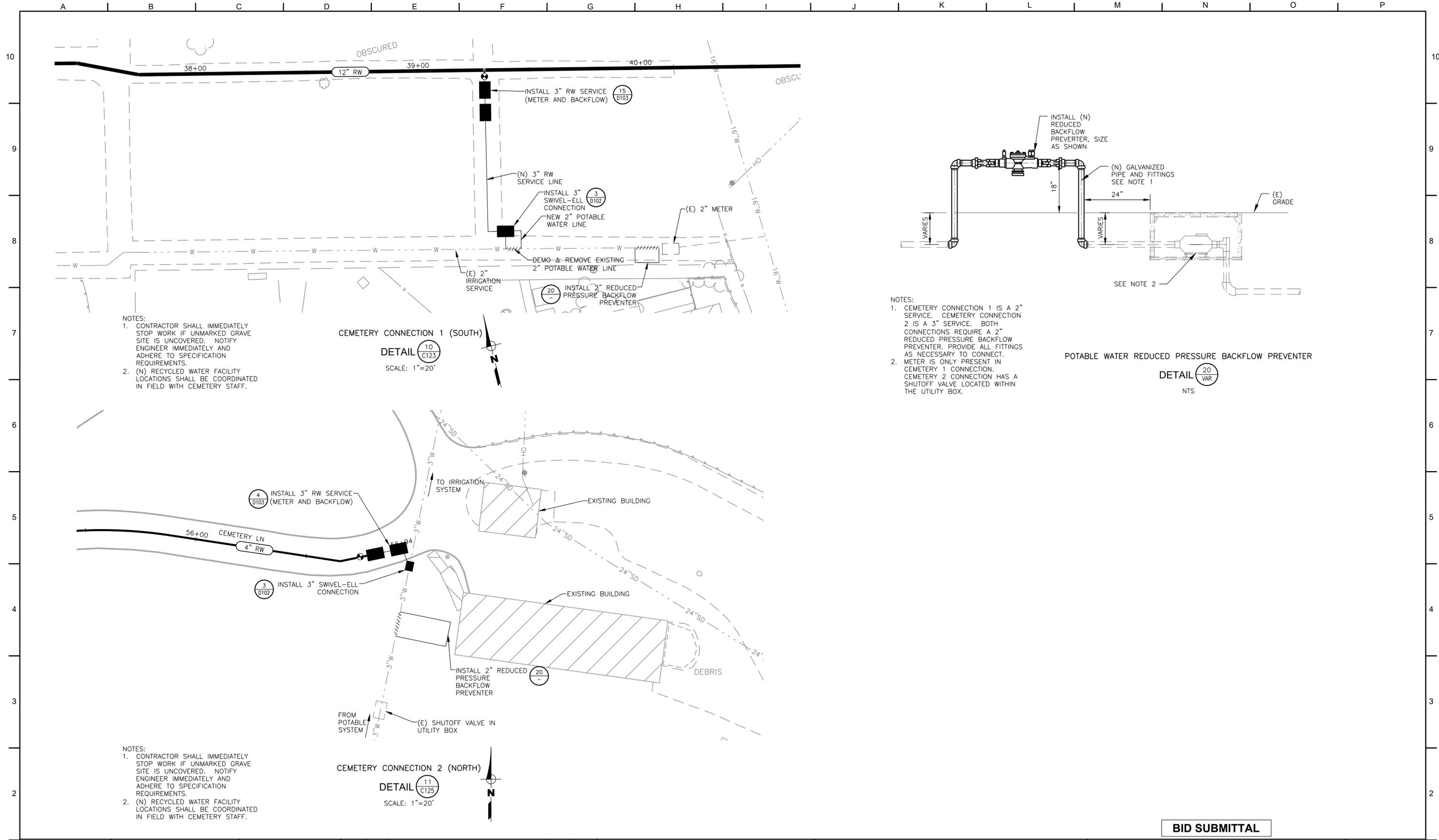
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700-30-22-16

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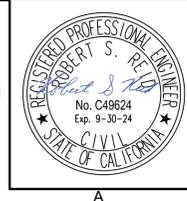
SHEET NUMBER
37 OF 43

REVISION

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NOTES:
 1. CEMETERY CONNECTION 1 IS A 2" SERVICE. CEMETERY CONNECTION 2 IS A 3" SERVICE. BOTH CONNECTIONS REQUIRE A 2" REDUCED PRESSURE BACKFLOW PREVENTER. PROVIDE ALL FITTINGS AS NECESSARY TO CONNECT.
 2. METER IS ONLY PRESENT IN CEMETERY 1 CONNECTION. CEMETERY 2 CONNECTION HAS A SHUTOFF VALVE LOCATED WITHIN THE UTILITY BOX.



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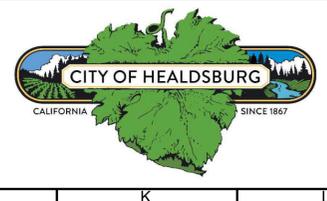
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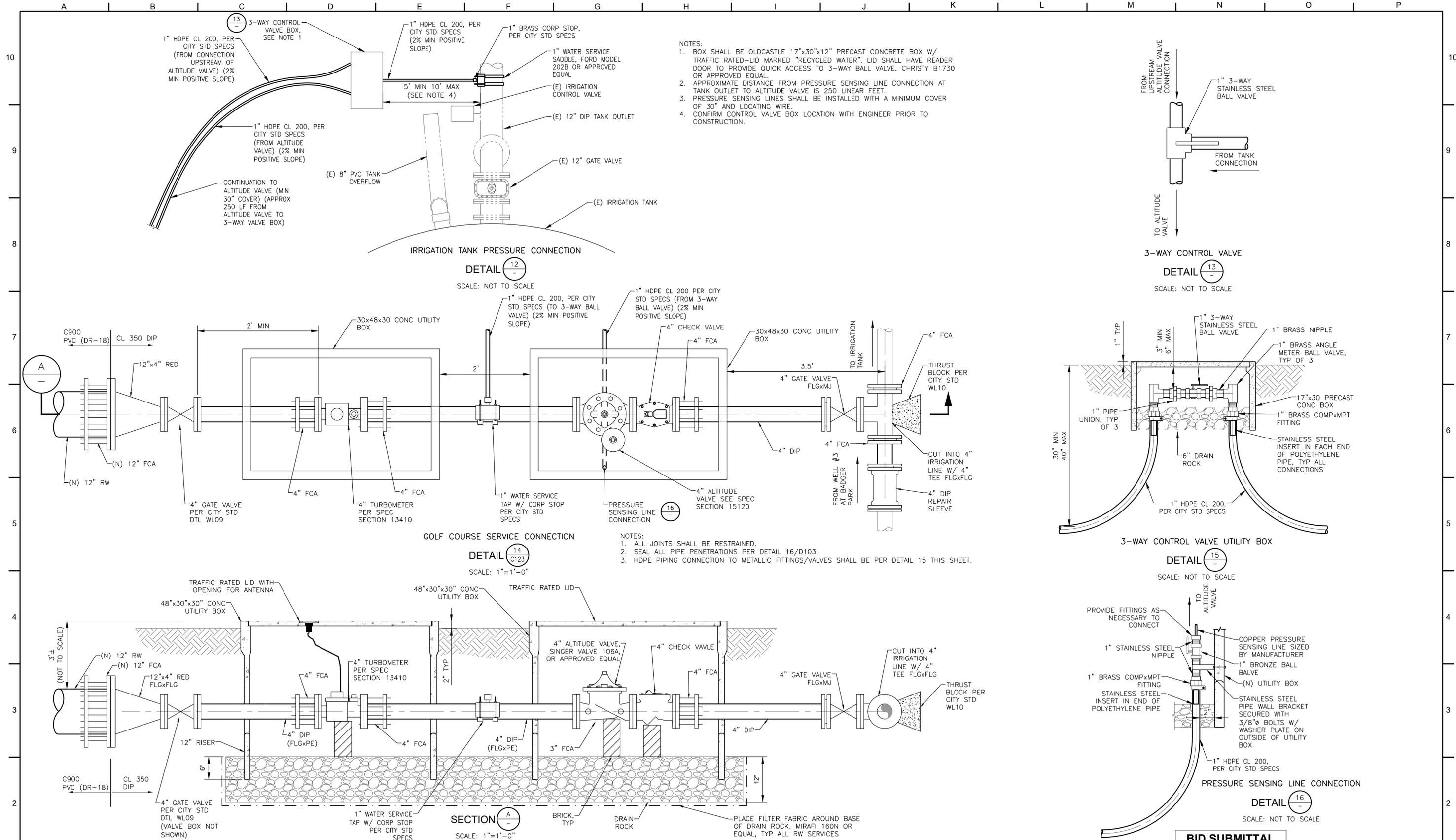


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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

CIVIL DETAILS 6

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER D106 |
| SHEET NUMBER 38 OF 43 |
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DATE: _____

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SCALE: AS SHOWN

DRAWN BY: ER
DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

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CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE

CIVIL DETAILS 7

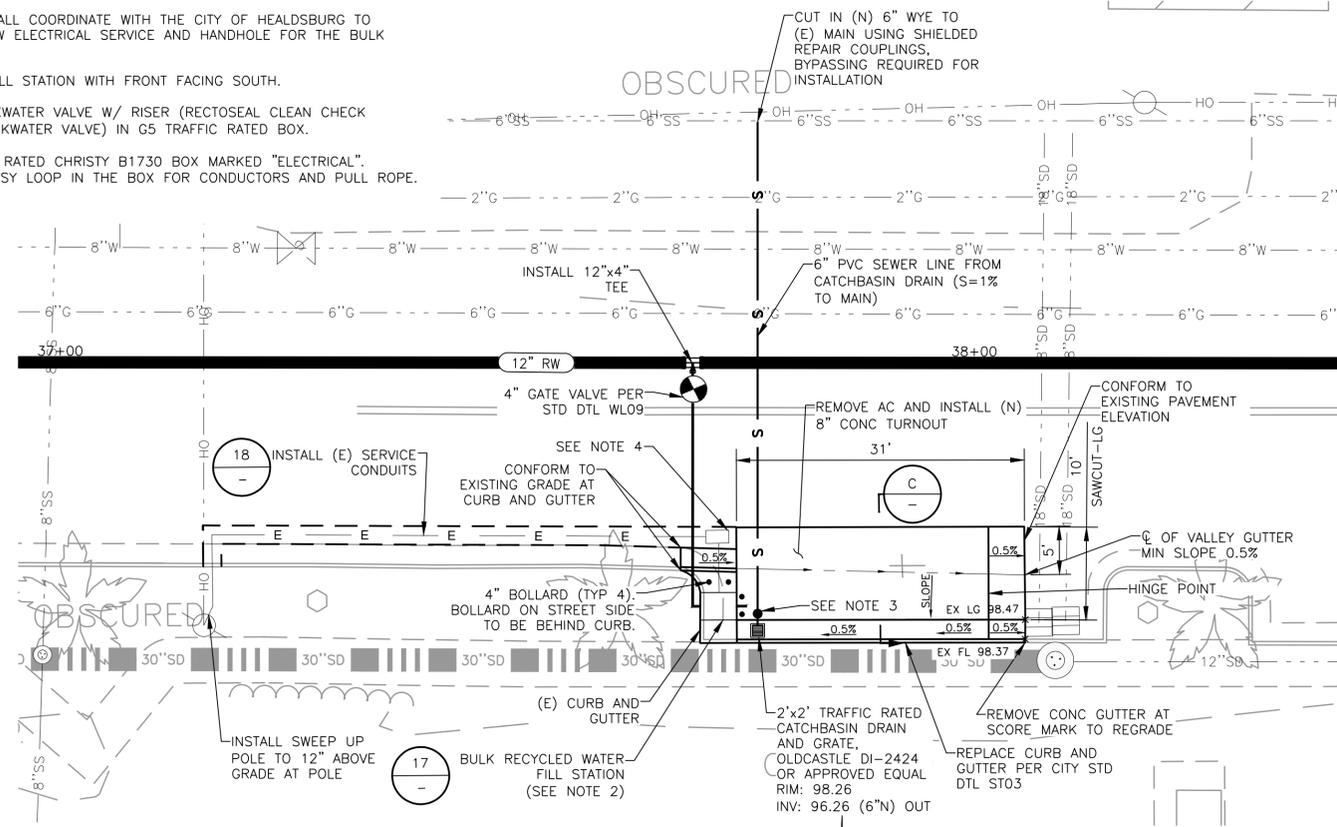
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700-30-22-16

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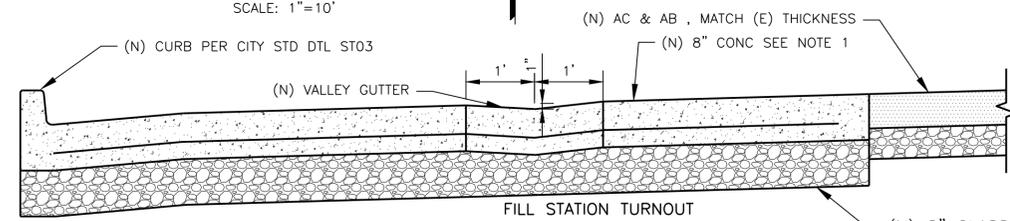
SHEET NUMBER
39 OF 43

REVISION

- NOTES:
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF HEALDSBURG TO INSTALL THE NEW ELECTRICAL SERVICE AND HANDHOLE FOR THE BULK FILL STATION.
 - INSTALL BULK FILL STATION WITH FRONT FACING SOUTH.
 - INSTALL 6" BACKWATER VALVE W/ RISER (RECTOSEAL CLEAN CHECK EXTENDABLE BACKWATER VALVE) IN G5 TRAFFIC RATED BOX.
 - INSTALL TRAFFIC RATED CHRISTY B1730 BOX MARKED "ELECTRICAL". PROVIDE COURTESY LOOP IN THE BOX FOR CONDUCTORS AND PULL ROPE.

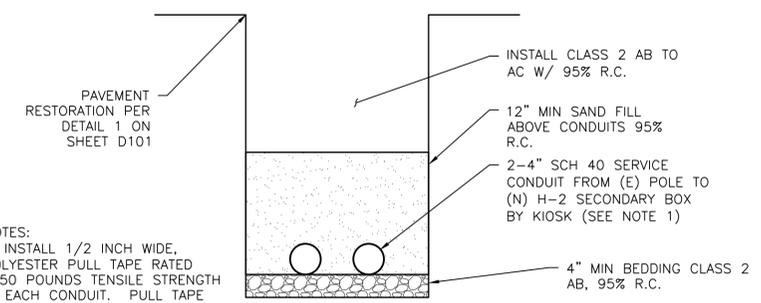


BULK RECYCLED WATER FILL STATION GRADING
 DETAIL 15
 SCALE: 1"=10'

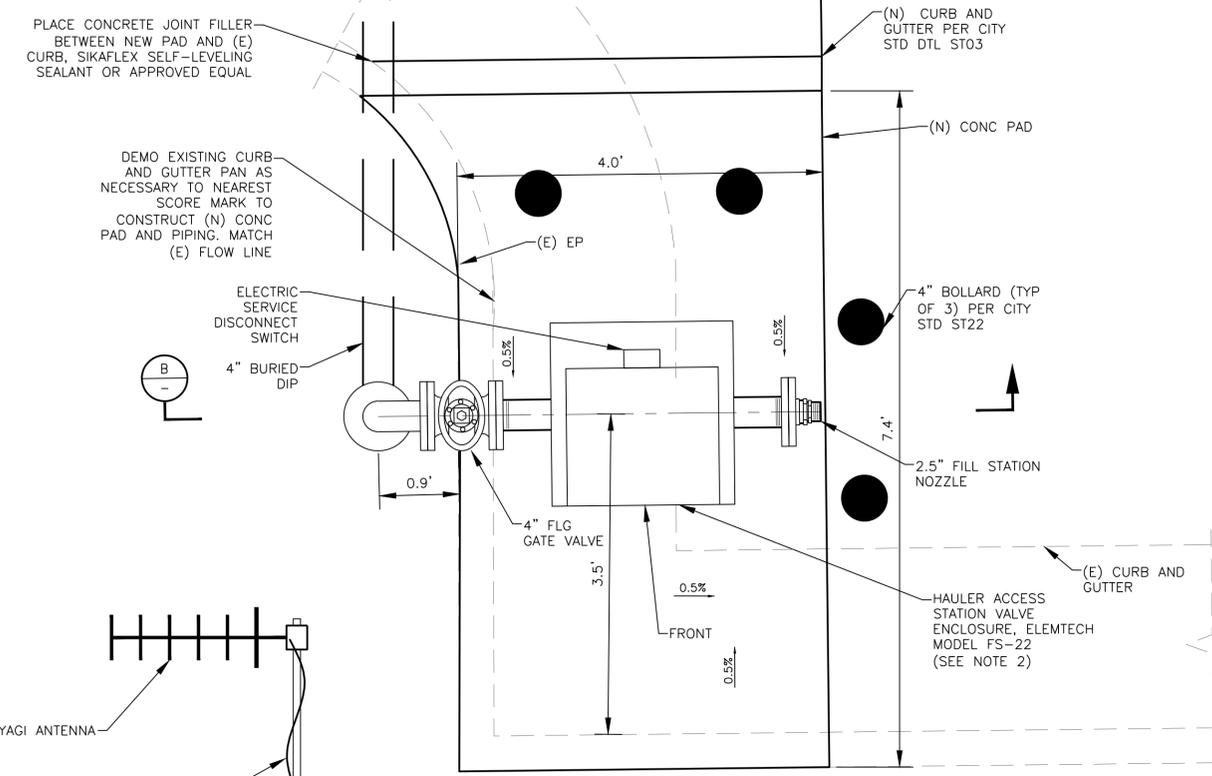


FILL STATION TURNOUT
 SECTION C
 SCALE: 3/4"=1'-0"

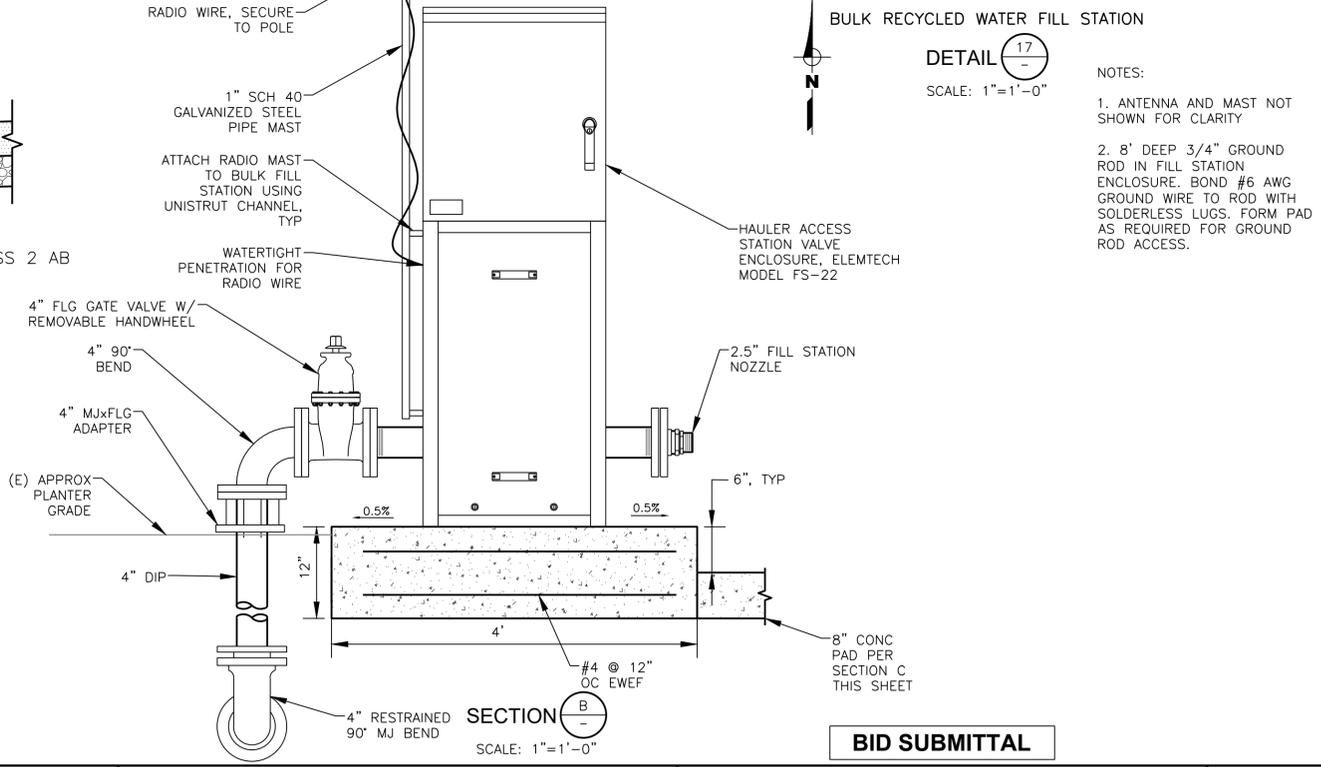
- NOTES:
- PLACE #4 REBAR IN CONC PAD AT 12" OC EW.
 - EXPANSION JOINTS SHALL BE PLACED IN THE TURNOUT AT THE SAME LOCATION AS THOSE IN THE CURB AND GUTTER.
 - SCORE MARKS SHALL BE PERPENDICULAR TO THE TRAVEL DIRECTION OF HEALDSBURG AVE AND PLACED EVERY 5'.



TYPICAL ELECTRICAL TRENCH SECTION
 DETAIL 18
 SCALE: NOT TO SCALE



BULK RECYCLED WATER FILL STATION
 DETAIL 17
 SCALE: 1"=1'-0"



SECTION B
 SCALE: 1"=1'-0"

- NOTES:
- ANTENNA AND MAST NOT SHOWN FOR CLARITY
 - 8' DEEP 3/4" GROUND ROD IN FILL STATION ENCLOSURE. BOND #6 AWG GROUND WIRE TO ROD WITH SOLDERLESS LUGS. FORM PAD AS REQUIRED FOR GROUND ROD ACCESS.

BID SUBMITTAL



QC REVIEW: STAN VANDEBERGH
 DATE: 9/2023

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SCALE: AS SHOWN

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 DESIGNED BY: SMG/RSR
 PROJ. MGR.: RSR

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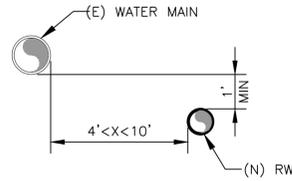
CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 8

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| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER D108 |
| SHEET NUMBER 40 OF 43 |
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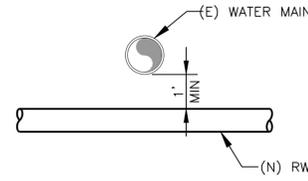
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NOTES:

- FOR PARALLEL CONSTRUCTION, RW MAIN SHALL BE A MIN OF 4' CLEAR FROM WATER MAIN. IF LESS THAN 10' CLEAR, RW SHALL BE INSTALLED A MINIMUM OF 1' BELOW WATER MAIN.
- RW CROSSING WATER SHALL BE A MINIMUM OF 1' BELOW WATER AND AT A MINIMUM 45° ANGLE.



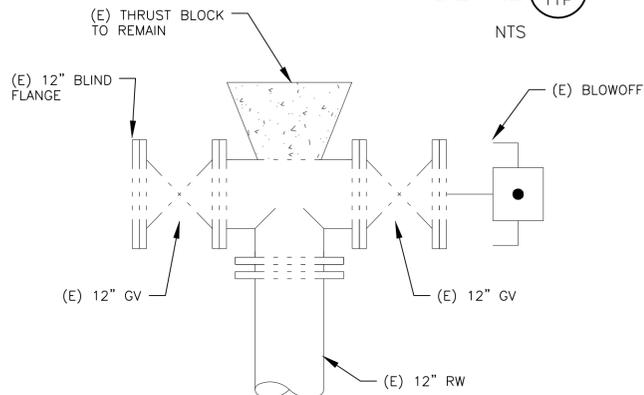
PARALLEL



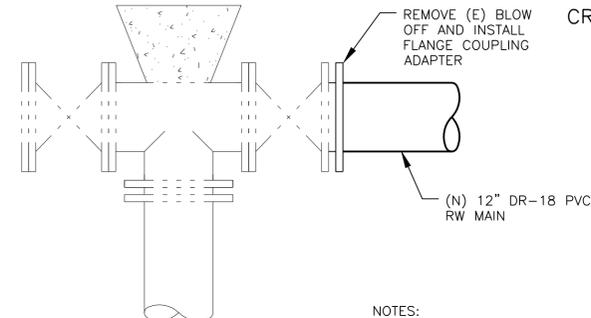
CROSSING

RECYCLED WATER MAIN CONSTRUCTION NEAR POTABLE WATER

DETAIL 21 TYP NTS



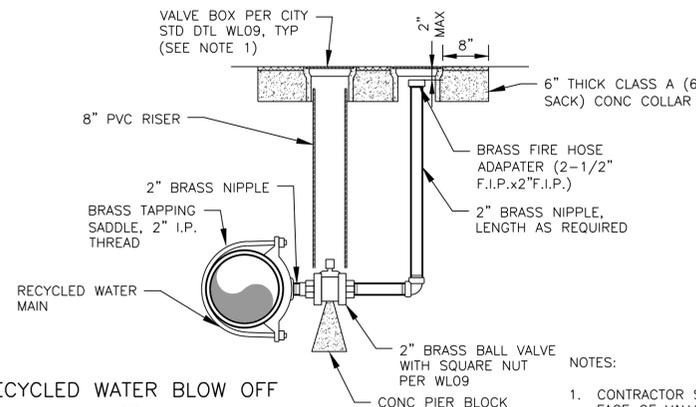
EXISTING PIPING



PROPOSED PIPING

RECYCLED WATER MAIN CONNECTION

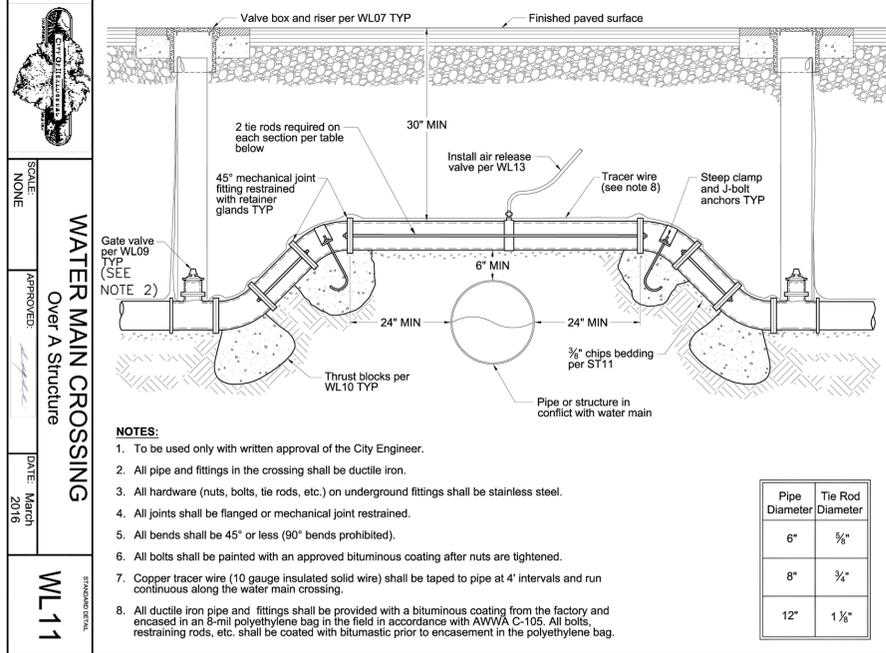
DETAIL 23 VAR NTS



2-INCH RECYCLED WATER BLOW OFF

DETAIL 26 NTS

- NOTES:
- CONTRACTOR SHALL WELD "RW BLOW OFF" ON FACE OF VALVE COVER.



WATER MAIN CROSSING Over A Structure

WL 11

- NOTES:
- To be used only with written approval of the City Engineer.
 - All pipe and fittings in the crossing shall be ductile iron.
 - All hardware (nuts, bolts, tie rods, etc.) on underground fittings shall be stainless steel.
 - All joints shall be flanged or mechanical joint restrained.
 - All bends shall be 45° or less (90° bends prohibited).
 - All bolts shall be painted with an approved bituminous coating after nuts are tightened.
 - Copper tracer wire (10 gauge insulated solid wire) shall be taped to pipe at 4' intervals and run continuous along the water main crossing.
 - All ductile iron pipe and fittings shall be provided with a bituminous coating from the factory and encased in an 8-mil polyethylene bag in the field in accordance with AWWA C-105. All bolts, restraining rods, etc. shall be coated with bitumastic prior to encasement in the polyethylene bag.

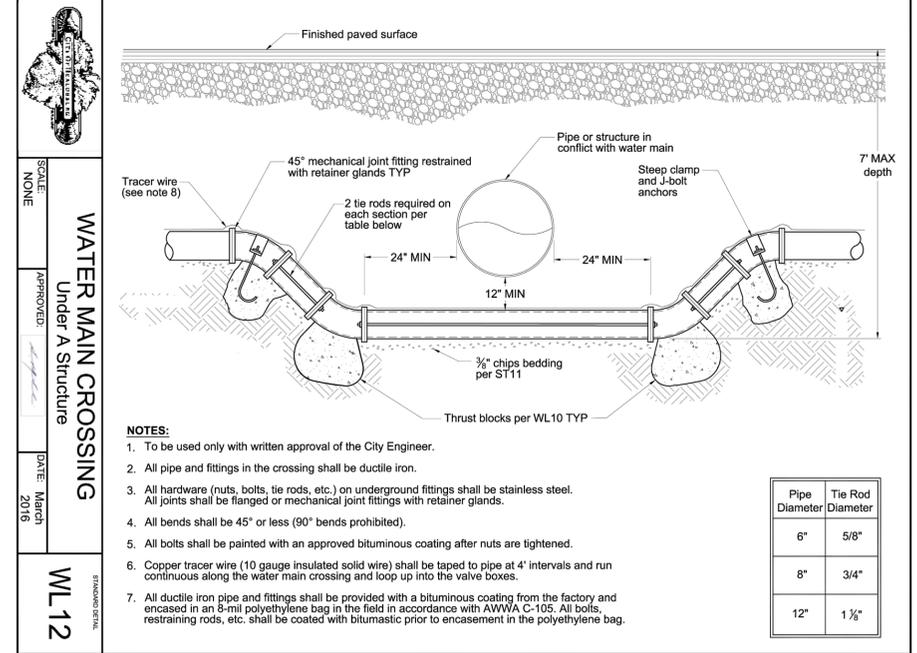
| Pipe Diameter | Tie Rod Diameter |
|---------------|------------------|
| 6" | 5/8" |
| 8" | 3/4" |
| 12" | 1 1/8" |

CROSSING OVER UNFORSEEN UTILITY

DETAIL 24 TYP NTS

- NOTES:
- WORK ASSOCIATED WITH DETAIL SHALL BE PAID UNDER BASE BID ITEM NO. 26.
 - INSTALL GAVE VALVES WHERE INDICATED ON THE PLANS.

- NOTES:
- NO AS-BUILTS ARE AVAILABLE FOR THE EXISTING PIPING SHOWN. DRAWING IS BASED ON EXISTING VALVE BOXES IN FIELD. CONTRACTOR SHALL POTHOLE EXISTING RW FACILITIES TO DETERMINE PIPING CONFIGURATION AND CONFIRM NEEDED MATERIALS FOR CONNECTION. NOTIFY ENGINEER IF CONFIGURATION DIFFERS FROM WHAT IS SHOWN FOR ADDITIONAL DIRECTION.



WATER MAIN CROSSING Under A Structure

WL 12

- NOTES:
- To be used only with written approval of the City Engineer.
 - All pipe and fittings in the crossing shall be ductile iron.
 - All hardware (nuts, bolts, tie rods, etc.) on underground fittings shall be stainless steel. All joints shall be flanged or mechanical joint fittings with retainer glands.
 - All bends shall be 45° or less (90° bends prohibited).
 - All bolts shall be painted with an approved bituminous coating after nuts are tightened.
 - Copper tracer wire (10 gauge insulated solid wire) shall be taped to pipe at 4' intervals and run continuous along the water main crossing and loop up into the valve boxes.
 - All ductile iron pipe and fittings shall be provided with a bituminous coating from the factory and encased in an 8-mil polyethylene bag in the field in accordance with AWWA C-105. All bolts, restraining rods, etc. shall be coated with bitumastic prior to encasement in the polyethylene bag.

| Pipe Diameter | Tie Rod Diameter |
|---------------|------------------|
| 6" | 5/8" |
| 8" | 3/4" |
| 12" | 1 1/8" |

CROSSING UNDER UNFORSEEN UTILITY

DETAIL 25 TYP NTS

- NOTES:
- WORK ASSOCIATED WITH DETAIL SHALL BE PAID UNDER BASE BID ITEM NO. 26.

BID SUBMITTAL



QC REVIEW: _____
DATE: _____

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SCALE: AS SHOWN

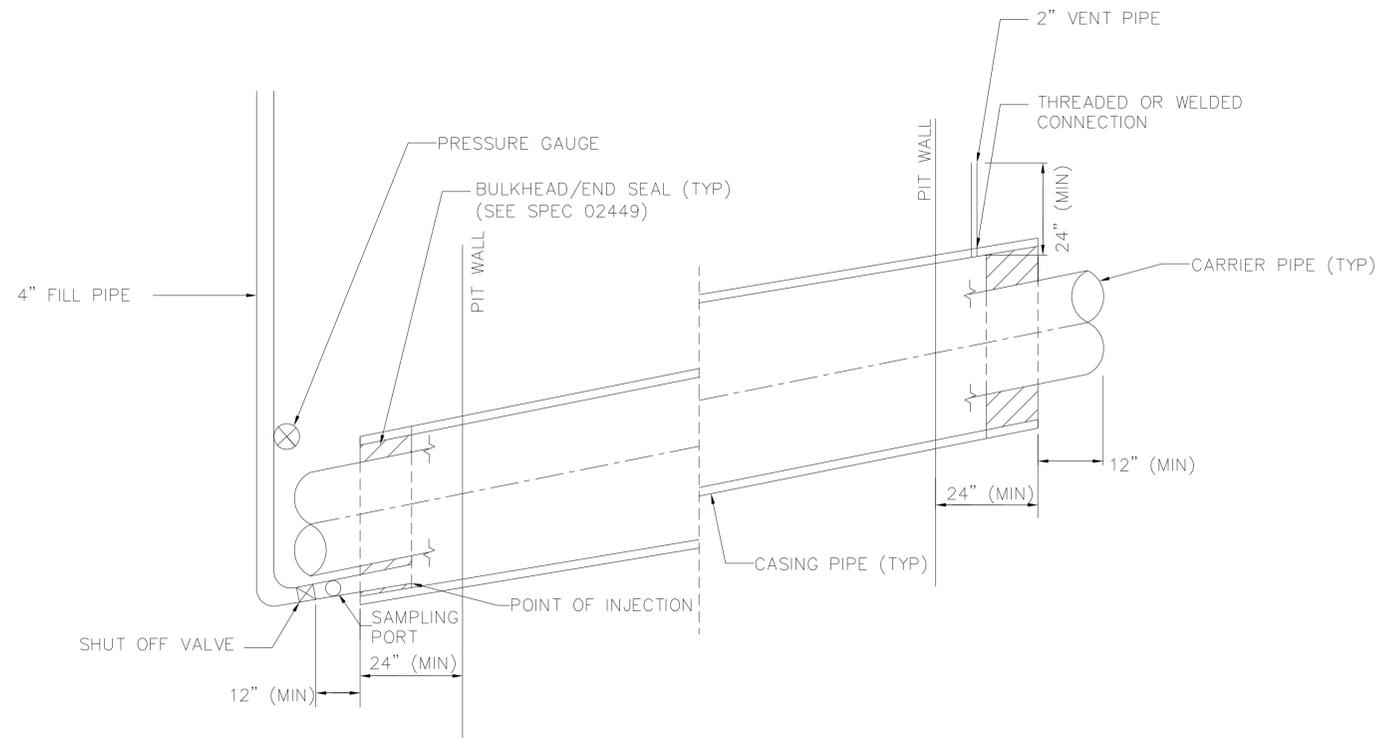
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DESIGNED BY: SMG/RSR
PROJ. MGR.: RSR

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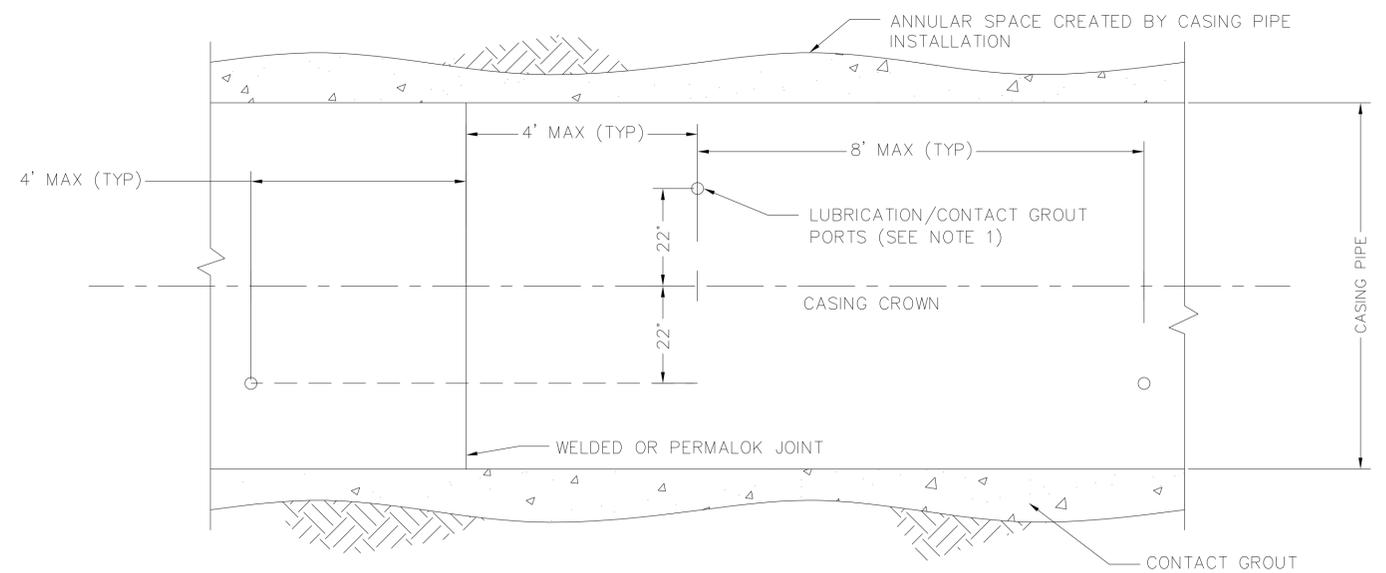


CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
CIVIL DETAILS 9

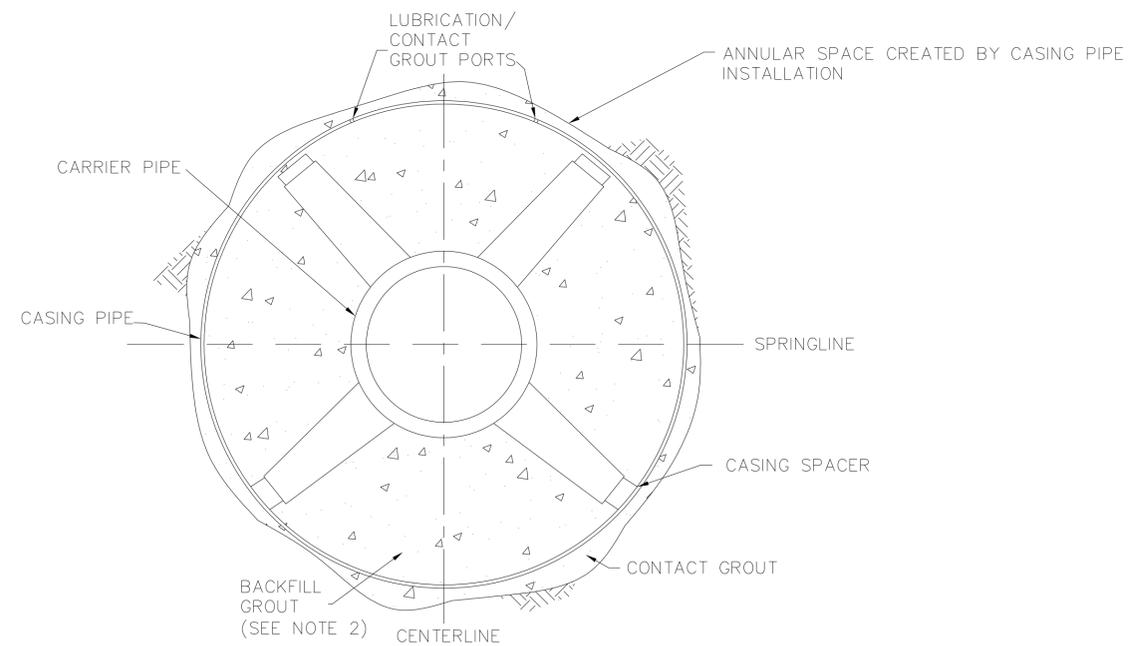
JOB NUMBER
700-30-22-16
DRAWING NUMBER
D109
SHEET NUMBER
41 OF **43**
REVISION



CARRIER PIPE BACKFILL DETAIL
SCALE: NTS (SEE NOTE 2)



LUBRICATION/CONTACT GROUT PORT LOCATION DETAIL
SCALE: NTS



TUNNEL SECTION VIEW
SCALE: NTS

NOTES:

- CONTACT GROUT THE ANNULAR SPACE BETWEEN THE CASING AND THE EXCAVATED GROUND AND WHERE VOIDS ARE ANTICIPATED OR CREATED PER SECTION 02436 – CONTACT GROUTING.
- PLACE BACKFILL GROUT IN THE ANNULAR SPACE BETWEEN THE CARRIER PIPES AND CASING PIPE IN ACCORDANCE WITH SECTION 02449 – CARRIER PIPE INSTALLATION INTO CASING.



QC REVIEW: T COHEN
DATE: DEC 12, 2023

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SCALE : _____ NTS
DRAWN BY : _____ AGR
DESIGNED BY : _____ JS
PROJ. MGR. : _____ JNL

0 ISSUED FOR BID AGR 12/15



CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
BACKFILL AND LUBRICATION/CONTACT
GROUT DETAILS

JOB NUMBER
700-30-22-16
DRAWING NUMBER
D201
SHEET NUMBER
42 OF 43
REVISION
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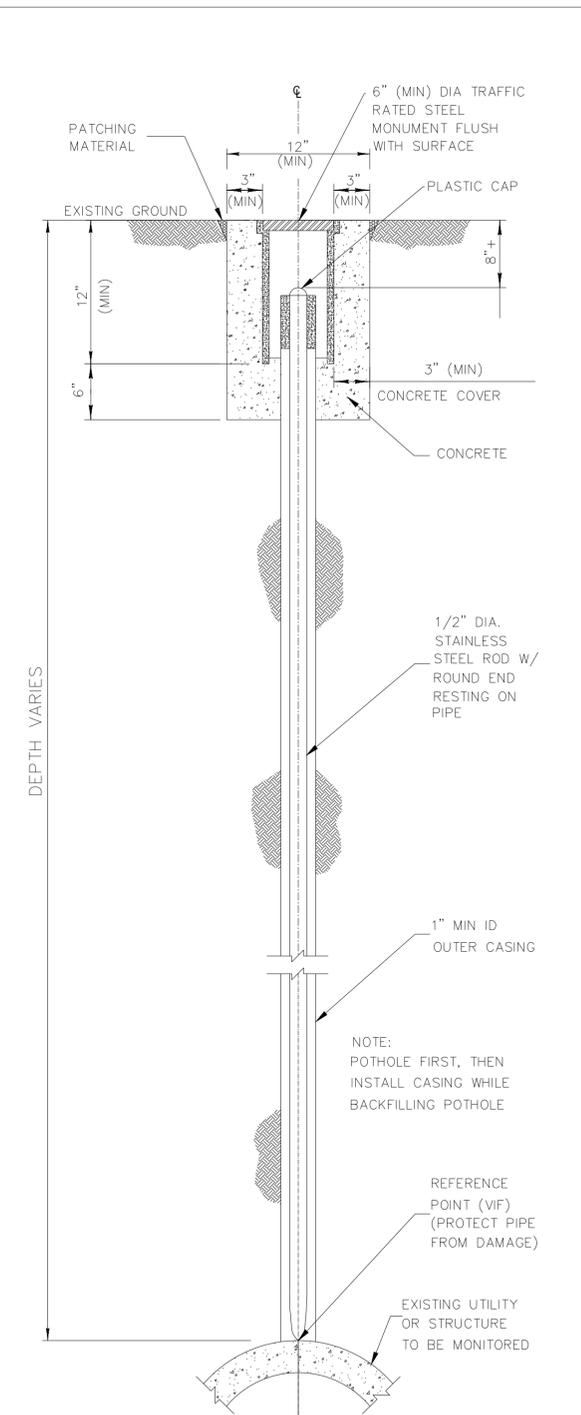
INSTRUMENTATION PLAN
SCALE: 1"=20'



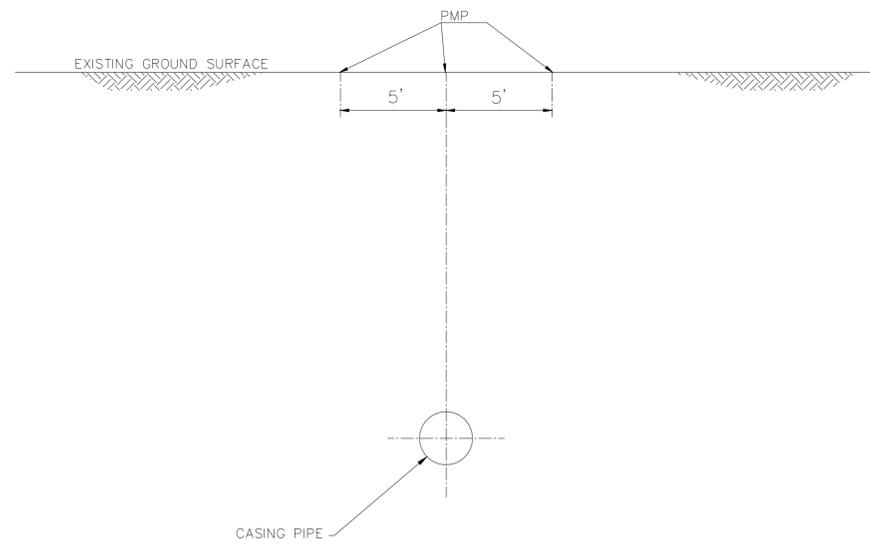
| SETTLEMENT MONITORING LOCATIONS | | |
|---------------------------------|------|-------------------|
| INSTRUMENT/ARRAY NUMBER | TYPE | LOCATION (APPROX) |
| P-01 | PMP | STA 0+55 |
| P-02E, P-02W | PMP | STA 0+70 |
| P-03W, P-03C, P-03E | PMP | STA 1+15 |
| P-04W, P-04C, P-04E | PMP | STA 1+55 |
| P-05W, P-05C, P-05E | PMP | STA 1+98 |
| P-06W, P-06C, P-06E | PMP | STA 2+30 |
| P-07W, P-07E | PMP | STA 2+85 |
| P-08 | PMP | STA 2+90 |
| 0-01 | OST | STA 2+45 |
| U-01 | UMP | STA 0+50 |
| U-02 | UMP | STA 0+60 |
| U-03 | UMP | STA 0+70 |
| U-04 | UMP | STA 2+85 |

NOTES:

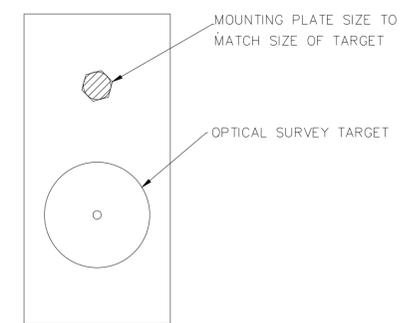
1. INSTRUMENTS SHALL BE IN ACCORDANCE WITH SPEC SECTION 02306.
2. "W" = WEST OF ALIGNMENT, "C"= CENTERLINE, "E" = EAST OF ALIGNMENT.
3. PROPERLY LABEL ALL INSTRUMENTS WITH IDENTIFICATION NUMBER.
4. PROVIDE UP TO 2 ADDITIONAL PMP INSTRUMENTS TO BE FIELD LOCATED AS DIRECTED BY THE ENGINEER.



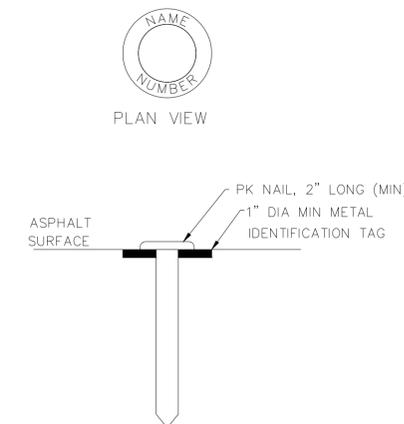
UTILITY MONITORING POINT (UMP) DETAIL
SCALE: NTS



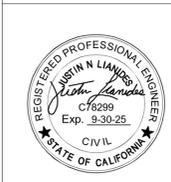
SETTLEMENT MONITORING 3-POINT ARRAY
SCALE: NTS



OPTICAL SURVEY TARGET (OST) DETAIL
SCALE: NTS



PAVEMENT MONITORING POINT (PMP) DETAIL
SCALE: NTS

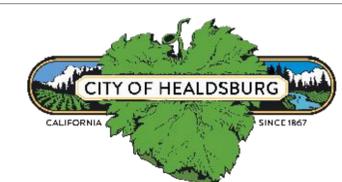
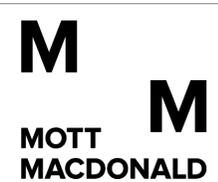


QC REVIEW: T COHEN
DATE: DEC 12, 2023

THIS LINE IS 1 INCH
AT FULL SCALE IF
NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
DRAWN BY: AGR
DESIGNED BY: JS
PROJ. MGR.: JNL

| | | | |
|---|----------------|-----|-------|
| 0 | ISSUED FOR BID | AGR | 12/15 |
|---|----------------|-----|-------|



CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
GEOTECHNICAL INSTRUMENTATION

| |
|----------------------------|
| JOB NUMBER 700-30-22-16 |
| DRAWING NUMBER D202 |
| SHEET NUMBER 43 OF 43 |
| REVISION 0 |