

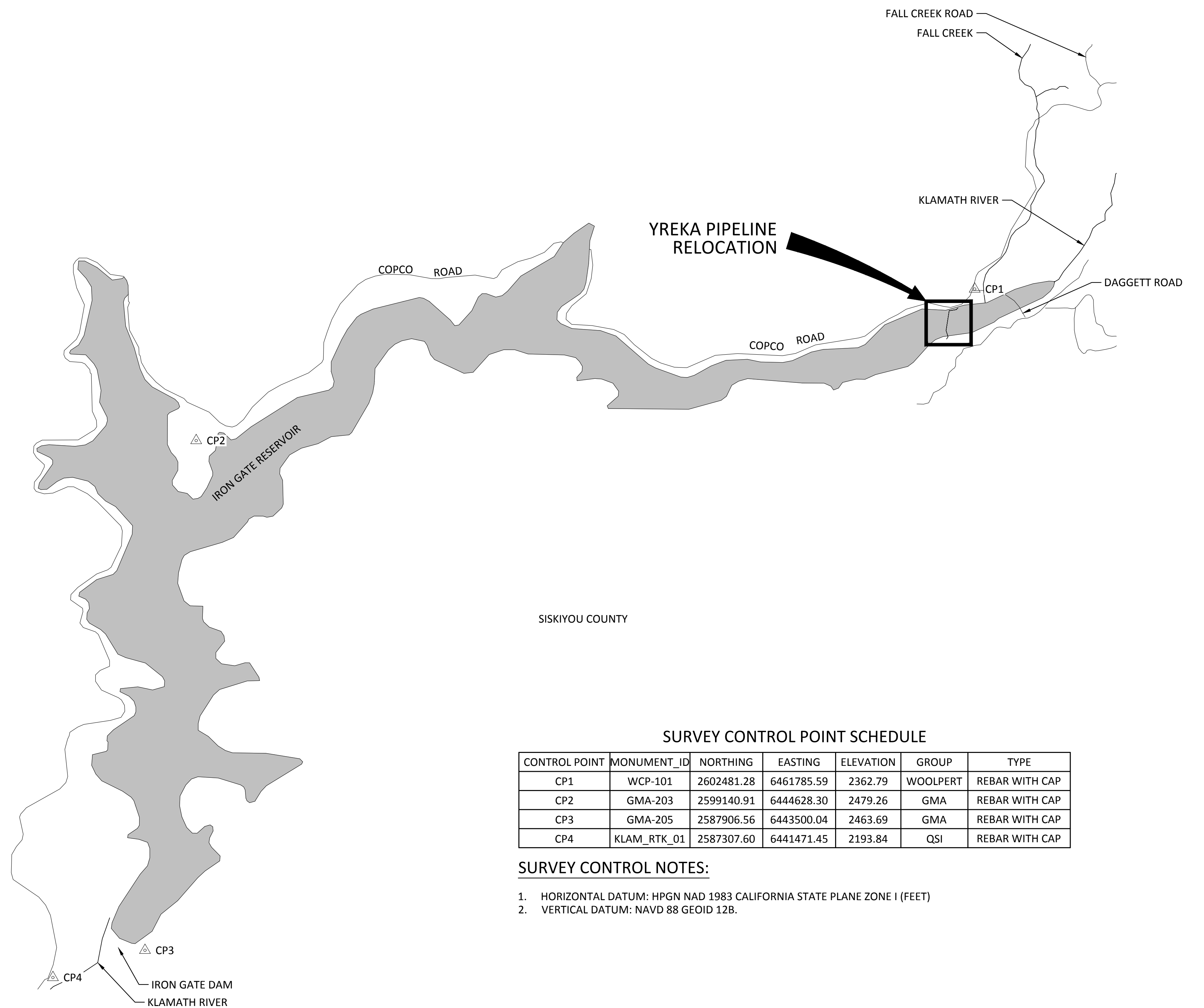
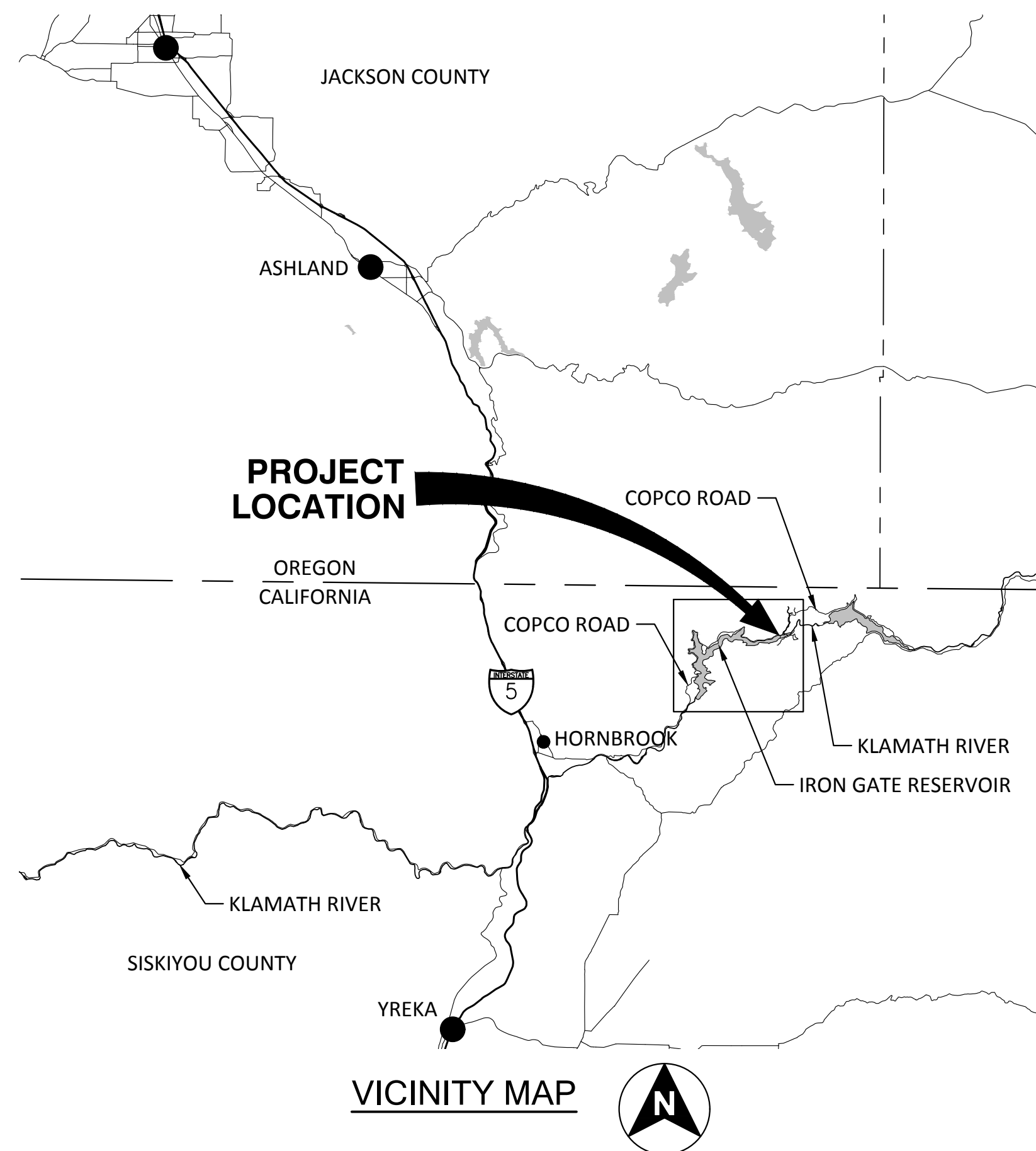
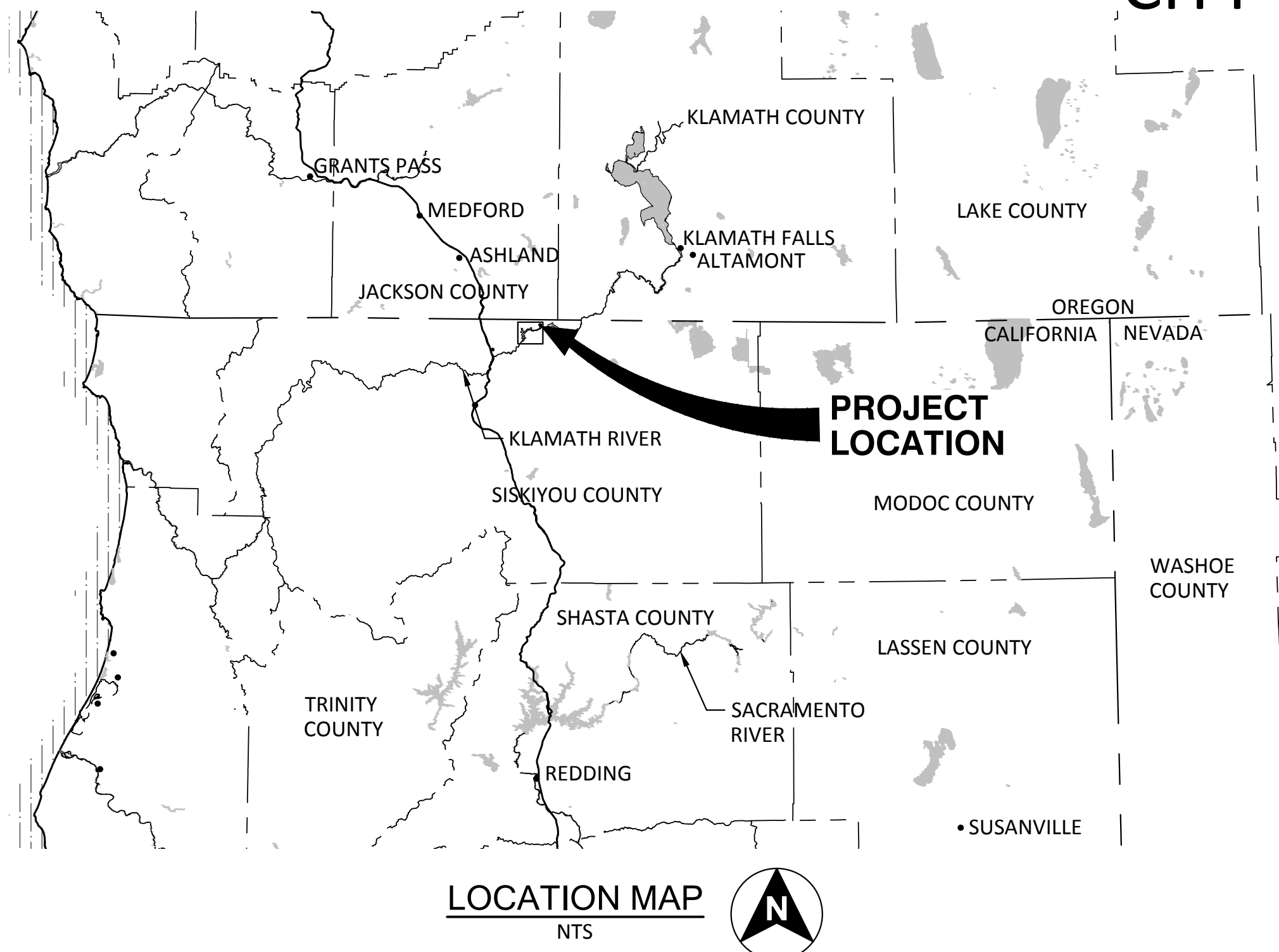


KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE

VOLUME 2 - CONSTRUCTION DRAWINGS
JUNE, 2022

ISSUED FOR CONSTRUCTION

CITY OF YREKA WATERLINE MODIFICATION PROJECT ISSUED FOR CONSTRUCTION



SURVEY CONTROL POINTS PLAN 

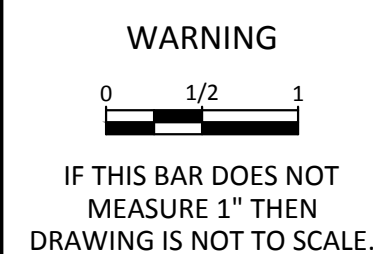
NTS

SURVEY CONTROL POINT SCHEDULE						
CONTROL POINT	MONUMENT_ID	NORTHING	EASTING	ELEVATION	GROUP	TYPE
CP1	WCP-101	2602481.28	6461785.59	2362.79	WOOLPERT	REBAR WITH CAP
CP2	GMA-203	2599140.91	6444628.30	2479.26	GMA	REBAR WITH CAP
CP3	GMA-205	2587906.56	6443500.04	2463.69	GMA	REBAR WITH CAP
CP4	KLAM_RTK_01	2587307.60	6441471.45	2193.84	QSI	REBAR WITH CAP

SURVEY CONTROL NOTES:

1. HORIZONTAL DATUM: HPGN NAD 1983 CALIFORNIA STATE PLANE ZONE I (FEET)
2. VERTICAL DATUM: NAVD 88 GEOID 12B.

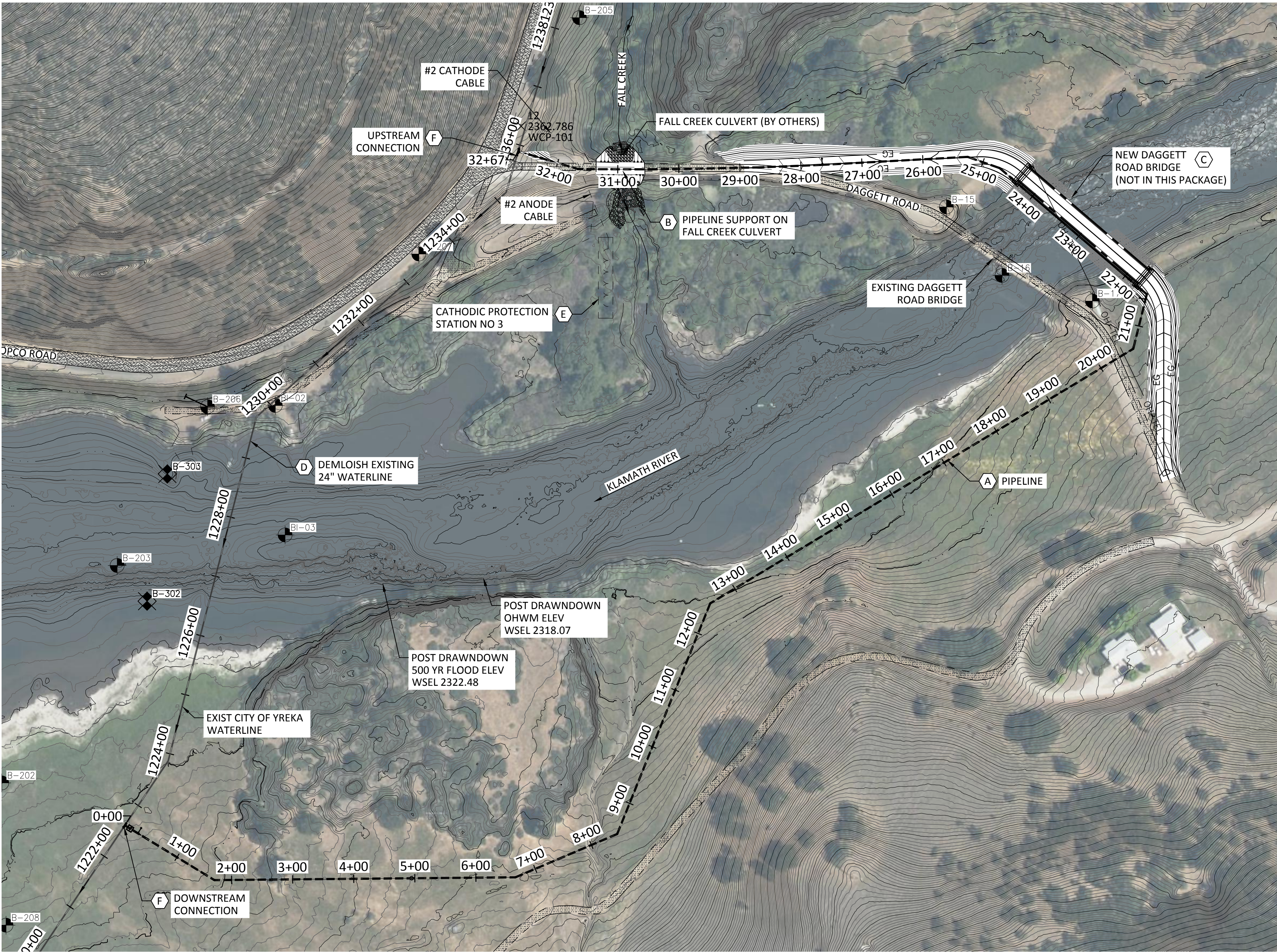
1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
RFV	DATE	BY	DESCRIPTION



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>J. BURNS</u> DRAWN <u>R. WOOD</u> CHECKED <u>J. LOWY</u> PROJECT DATE <u>5/25/22</u>	DRAWING G001
CITY OF YREKA WATER LINE			
LOCATION MAP, VICINITY MAP AND SURVEY CONTROL POINTS			

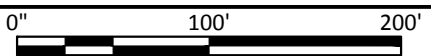
A/C	AIR CONDITIONING	CMH	COMMUNICATION MANHOLE	F TO F	FACE TO FACE	I	INSTRUMENTATION (DWG DISCIPLINE)	N	NORTH, NEUTRAL	RET	RETAINING, RETURN	V	VENT, VELOCITY, VOLT
A/E	ARCHITECT/ENGINEER	CMU	CONCRETE MASONRY UNIT	FAB	FABRICATE	ID	INSIDE DIAMETER, INTERIOR DIMENSION	NA	NOT APPLICABLE	REV	REVISION, REVERSE	VA	VOLT AMPERE
A	ARCHITECTURAL (DWG DISCIPLINE), AMP	CO	CLEAN OUT, CONCRETE OPENING	FBO	FURNISHED BY OWNER	IE	INVERT ELEVATION	NAT	NATURAL	RFL	REFLECTED, REFLECTOR	VAC	VACUUM
AB	ANCHOR BOLT	COL	COLUMN	FC	FLUSHING CONNECTION	IF	INSIDE FACE	NC	NORMALLY CLOSED	RGS	RIGID GALVANIZED STEEL	VAR	VARNISH, VARIABLE, VOLT AMPERES REACTIVE
ABC	AGGREGATE BASE COURSE	COM	COMMON	FCA	FLANGED COUPLING ADAPTER	IFC	ISSUED FOR CONSTRUCTION	NEG	NEGATIVE	RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	VB	VAPOR BARRIER, VINYL BASE, VALVE BOX
ABAN	ABANDON	COMB	COMBINATION	FCV	FIXED CONE VALVE	IH	INTAKE HOOD	NF	NEAR FACE, NON-FUSED			VC	VERTICAL CURVE
AC	ALTERNATING CURRENT	COMM	COMMUNICATION	FD	FLOOR DRAIN	IMP	IMPACT	NG	NATURAL GAS	RL	REQUIRED LAP	VCT	VINYL COMPOSITION TILE, VERTICAL CENTERLINE
ACST	ACOUSTIC	COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE	FDC	FLEXIBLE DUCT CONNECTION	IN	INCH	NIC	NOT IN CONTRACT	RND	ROUND		
AD	ADDENDUM, AREA DRAIN	CONC	CONCENTRIC, CONCRETE	FDR	FEEDER	INC	INCLUDE, INCANDESCENT	NO	NORMALLY OPEN, NUMBER	RNG	RENEWABLE NATURAL GAS	VEL	VELOCITY
ADDL	ADDITIONAL	CONN	CONNECTION	FE	FLANGED END	INF	INFLEUNT	NOM	NOMINAL	RO	ROUGH OPENING	VENT	VENTILATION
ADH	ADHESIVE	CONST	CONSTRUCTION	FEC	FIRE EXTINGUISHER CABINET	INSTR	INSTRUMENTATION	NPS	NOMINAL PIPE SIZE	ROW	RIGHT-OF-WAY	VERT	VERTICAL
ADJ	ADJUSTABLE, ADJACENT	CONT	CONTINUOUS, CONTINUED	FEXT	FIRE EXTINGUISHER	INSUL	INSULATION	NPT	NATIONAL PIPE THREAD	RPM	REVOLUTIONS PER MINUTE	VS	VERSES, VAPOR SEAL
AF	AMP FRAME, AMP FUSE	COORD	COORDINATE	FF	FAR FACE, FACTORY FINISH, FLAT FACE	INT	INTERIOR, INTERSECTION	NS	NEAR SIDE	RR	RAILROAD	VOL	VOLUME
AFF	ABOVE FINISH FLOOR	CORR	CORROSIVE, CORRUGATED	FG	FINISHED GRADE	INTR	INTERMEDIATE, INTERIOR	NTS	NOT TO SCALE	RT	RIGHT	VPC	VERTICAL POINT OF CURVATURE
AFG	ABOVE FINISH GRADE	CP	CHECKER PLATE, CONTROL POINT	FIG	FIGURE	INV	INVERT	NWL	NORMAL WATER LEVEL			VPI	VERTICAL POINT OF INTERSECTION
AGGR	AGGREGATE	CPLG	COUPLING	FH	FIRE HYDRANT	IPS	IRON PIPE SIZE			S	SOUTH, SINK, STRUCTURAL (DWG DISCIPLINE)	VPT	VERTICAL POINT OF TANGENCY
AIC	AMPS INTERRUPTING CAPACITY	CSK	COUNTERSINK	FIN	FINISH	IPT	INTERNAL PIPE THREAD			SA	SUPPLY AIR	VTR	VENT THROUGH ROOF
ALIG	ALIGNMENT	CTR	CENTER	FL	FLOW, FLOW LINE, FLANGE	IRR	IRRIGATION			SAN	SANITARY	VWC	VINYL WALL COVERING
ALUM	ALUMINUM	CTRL	CONTROL	FLEX	FLEXIBLE	ISO	ISOMETRIC			SC	SOLID CORE		
ALT	ALTERNATE, ALTITUDE	CU	COPPER, CUBIC	FLG	FLANGE					OC	ON CENTER		
AMB	AMBIENT	CW	CLOCKWISE	FLOR	FLUORESCENT					OC	OVER CURRENT PROTECTION DEVICE		
ANC	ANCHOR	CY	CUBIC YARD	FLR	FLOOR					OD	OUTSIDE DIAMETER		
AP	ACCESS PANEL			FLR	FLOOR					OH	OVERHEAD		
APRX	APPROXIMATE	d	PENNY (NAIL MEASURE)	FLS	FLASHING, FLUSH					OPNG	OPENING		
APVD	APPROVED ARCH ARCHITECTURAL	D	DEEP, DIFFUSER	FND	FOUNDATION					OPP	OPPOSITE		
ASSY	ASSEMBLY	DB	DUCT BANK, DECIBEL, DRY BULB	FNC	FENCE					OPT	OPTIONAL		
AT	AMP TRIP	DBA	DEFORMED BAR ANCHOR	FO	FINISHED OPENING					ORD	OVERFLOW ROOF DRAIN		
ATM	ATMOSPHERE	DBL	DOUBLE	FOB	FLAT ON BOTTOM					ORIG	ORIGINAL		
AUTO	AUTOMATIC	DC	DIRECT CURRENT	FOC	FACE OF CONCRETE, FACE OF CURB, FIBER					OVFL	OVERFLOW		
AUX	AUXILIARY	DEG	DEGREE							OVHG	OVERHANG		
AVE	AVENUE	DEG C	DEGREE CENTIGRADE	FOF	FACE OF FINISH					OZ	OUNCE		
AVG	AVERAGE	DEG F	DEGREE FAHRENHEIT	FOM	FACE OF MASONRY								
AWG	AMERICAN WIRE GAGE	DEMO	DEMOLITION	FOS	FACE OF STUDS								
		DEP	DEPRESSED	FOT	FLAT ON TOP								
		DEPT	DEPARTMENT	FPT	FEMALE PIPE THREAD								
B/B	BACK TO BACK	DET	DETAIL	FR	FRAME								
BAL	BALANCE	DI	DROP INLET, DUCTILE IRON	FRP	FIBERGLASS REINFORCED PLASTIC								
BBD	BULLETIN BOARD	DIA	DIAGONAL, DIAGRAM	FS	FLOOR SINK, FAR SIDE								
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	DIFF	DIFFERENTIAL, DIFFERENCE	FT	FEET, FOOT								
		DIM	DIMENSION	FTG	FOOTING, FITTING FUR FURRED, FURRING								
BD	BOARD	DISCH	DISCHARGE	FURN	FURNITURE, FURNISH								
BE	BOTH ENDS, BELL END	DIST	DISTANCE, DISTRIBUTION	FUT	FUTURE								
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET	DIV	DIVISION	FV	FACE VELOCITY								
BFV	BUTTERFLY VALVE	DL	DEAD LOAD	FW	FIELD WELD, FIRE WALL								
BITUM	BITUMINOUS	DN	DOWN	FWD	FORWARD								
BKG	BACKING	DL	DEAD LOAD	FWE	FURNISHED WITH EQUIPMENT								
BL	BASE LINE	DN	DOWN	FXTR	FIXTURE								
BLDG	BUILDING	DP	DEPTH										
BLK	BLOCK	DS	DOWN SPOUT	G	GRILLE, GROUND, GENERAL (DWG DISCIPLINE)								
BLKG	BLOCKING	DT	DOUBLE TEE, DRIP TRAP ASSEMBLY	GA	GAGE (METAL THICKNESS)								
BM	BENCHMARK, BEAM	DUP	DUPLICATE	GAL	GALLON								
BOC	BACK OF CURB	DWG	DRAWING	GALV	GALVANIZED								
BOC	BACK OF CURB	DWL	DOWEL	GB	GRADE BREAK								
BOD	BOTTOM OF DUCT			GD	GUARD								
BOG	BOTTOM OF GRILLE	E	EAST, ELECTRICAL (DWG DISCIPLINE)	GEN	GENERAL								
BOL	BOTTOM OF LOUVER	EA	EACH, EXHAUST AIR	GFCI	GROUND FAULT CIRCUIT INTERRUPTER								
BOP	BOTTOM OF PIPE	EC	ELECTRICAL CONTRACTOR	GL	GLASS								
BOR	BOTTOM OF REGISTER	ECC	ECCENTRIC	GP	GUY POLE								
BOT	BOTTOM	EDB	ELECTRICAL DUCT BANK	GR	GRADE								
BOU	BOTTOM OF UNIT	EE	EACH END	GRND	GROUND								
BP	BASE PLATE	EF	EACH FACE	GRTG	GRATING								
BRG	BEARING	EG	EXISTING GRADE	GT	GREASE TRAP								
BRGP	BEARING PLATE	EGL	ENERGY GRADE LINE	GWB	GYPSPUM WALLBOARD								
BRKT	BACKET	EFF	EFFLUENT, EFFICIENCY	GYP	GYPSPUM HARDBOARD								
BS	BOTH SIDES	EHH	ELECTRICAL HANDHOLE										
BTU	BRITISH THERMAL UNIT	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	H	HIGH								
BTW	BETWEEN	EJ	EXPANSION JOINT	HB	HOSE BIB								
BTWLD	BUTT WELD	EL	ELBOW, ELEVATION	HBD	HARDBOARD								
BV	BALL VALVE	ELEC	ELECTRICAL	HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE								
BW	BOTH WAYS	EMBD	EMBEDDED	HC	HORIZONTAL CENTERLINE								
BYP	BYPASS	EMER	EMERGENCY	HDR	HEADER								
		EMH	ELECTRICAL MANHOLE	HDW	HARDWARE								
C TO C	CENTER TO CENTER	ENCL	ENCLOSURE	HEX	HEXAGONAL								
C&G	CURB & GUTTER	ENGR	ENGINEER	HH	HANDHOLE								
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT, CIVIL (DRAWING DISCIPLINE)	ENTR	ENTRANCE	HM	HOLLOW METAL								
		EOP	EDGE OF PAVEMENT	HORIZ	HORIZONTAL								
CAP	CAPACITY	EOW	EDGE OF WATER	HP	HIGH POINT, HORSEPOWER								
CAT	CATALOG	EQ	EQUAL	HPC	HORIZONTAL POINT OF CURVATURE								
CAV	CAVITY	EQUIP	EQUIPMENT	HPS	HIGH PRESSURE SODIUM								
CB	CATCH BASIN	EQUIV	EQUIVALENT	HPT	HORIZONTAL POINT OF TANGENCY								
CCB	CONCRETE BLOCK	ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER	HR	HOOR								
CCW	COUNTER CLOCKWISE	ESEW	EMERGENCY SHOWER AND EYE WASH	HS	HEADED STUD, HIGH STRENGTH								
CF	CUBIC FEET (FOOT)	EST	ESTIMATE	HSS	HOLLOW STRUCTURAL SHAPE								
CHFR	CHAMFER	EW	EACH WAY, EMERGENCY EYE/FACE WASH	HT	HEIGHT								
CHD	CHORD	EW	ELECTRIC WATER COOLER	HV	HIGH VOLTAGE								
CHH	COMMUNICATION HANDHOLE	EWFC	EACH WAY, EACH FACE	HVAC	HEATING, VENTILATION & AIR CONDITIONING								
CI	CURB INLET	EWFTB	EACH WAY, TOP AND BOTTOM	HWD	HARDWOOD								
CIP	CAST-IN-PLACE	EXC	EXCAVATION	HWL	HIGH WATER LEVEL								
CIPB	CONCRETE INTERLOCKING PAVER	EXH	EXHAUST	HYD	HYDRAULIC HZ HERTZ, CYCLES PER SECOND								
		EXH	EXHAUST										
		EXIST	EXISTING										
		EXP	EXPANSION, EXPOSED										
		EXT	EXTERIOR, EXTERNAL, EXTENSION										

[illegible]



OVERALL SITE PLAN

SCALE: 1"= 100'



SURVEY NOTES:

1. LIDAR 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.
3. THE VERTICAL DATUM FOR THE PROJECT IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, GEOID 12B).

MAJOR CONSTRUCTION ITEMS:

(NOT IN ANY SUGGESTED CONSTRUCTION SEQUENCE ORDER)

- 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 DEMOLISH EXISTING 24" DIAMETER WATERLINE AFTER NEW PIPELINE IS OPERABLE AS APPROVED BY OWNER.
- E RETAIN AND PROTECT EXIST 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:

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. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULE AND SEQUENCED TO ENSURE CONTINUOUS OPERATION OF THE CITY RAW WATERLINE TO THE GREATEST EXTENT POSSIBLE. THE OWNER HAS STATED THAT A WATERLINE OUTAGE IS ALLOWED FOR UP TO 20 HOURS IN THE MONTHS OF MAY THROUGH OCTOBER, OR AN OUTAGE IS ALLOWED FOR UP TO 60 HOURS IN THE MONTHS OF NOVEMBER THROUGH APRIL. CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCING AND OUTAGE PLAN FOR OWNER AND ENGINEER APPROVAL PER SPECIFICATION SECTION 01 11 00.

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. 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	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING

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

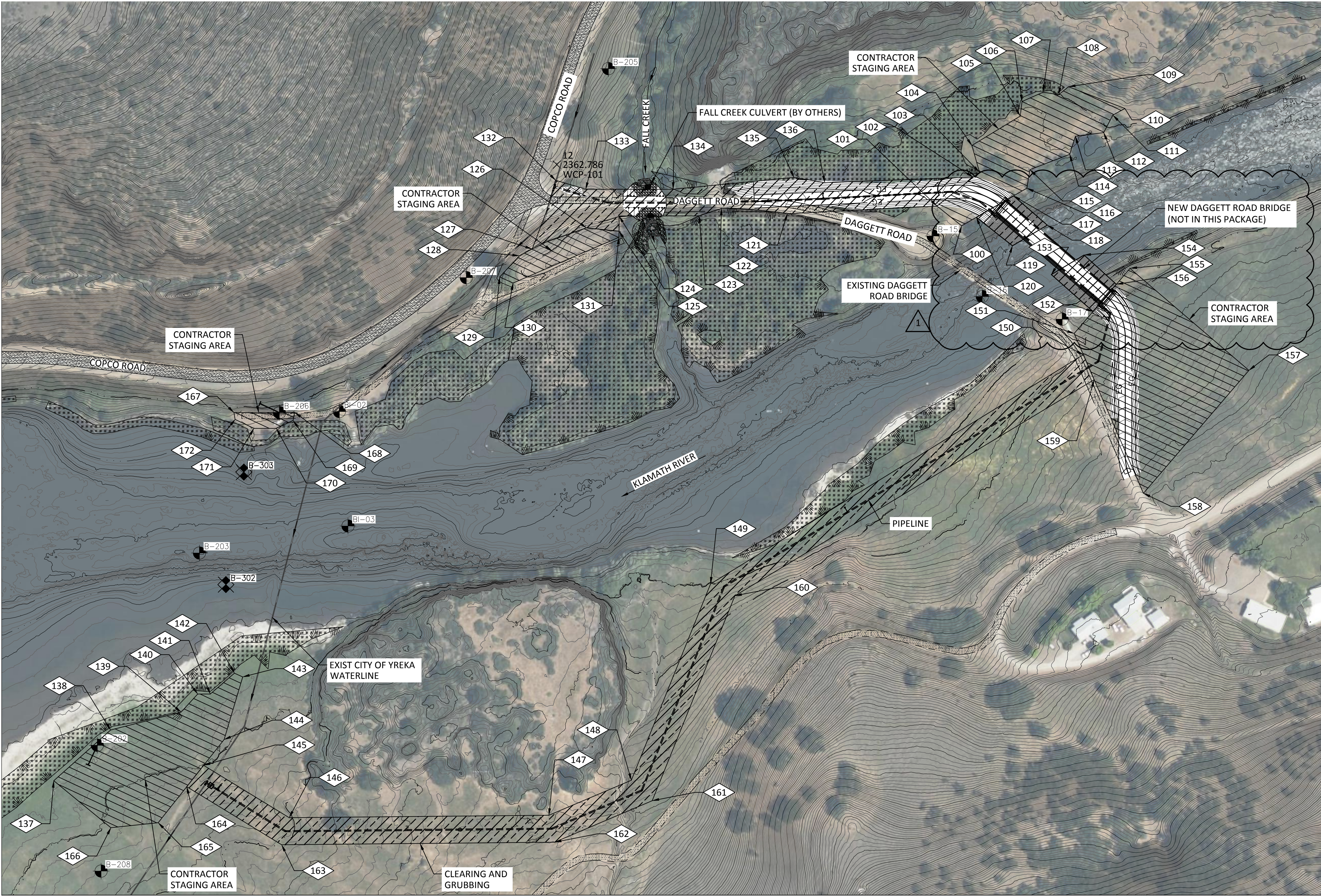


KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE
OVERALL PLAN AND PROJECT CONTROL

DESIGNED <u>J. BURNS</u>
DRAWN <u>R. WOOD</u>
CHECKED <u>J. LOWY</u>
PROJECT DATE <u>5/25/22</u>

DRAWING

G005

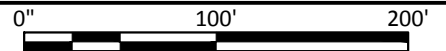


SHEET NOTES:

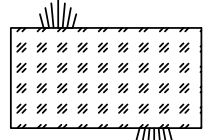
- CONTRACTOR SHALL COORDINATE LAYDOWN AND STAGING AREAS WITH OWNER.
- CONTRACTOR SHALL DEVELOP A DETAILED ACCESS PLAN IN ACCORDANCE WITH SPECIFICATIONS AND SUBMIT FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
- CONTRACTOR STAGING AREA IS SUGGESTED ONLY, AND WILL BE AT THE DISCRETION OF THE CONTRACTOR, SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
- 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.
- THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER A PLAN FOR STORING AND DISPOSING OF HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL RESTORE THE STAGING AREAS AT PROJECT COMPLETION TO PRE CONSTRUCTION CONDITIONS.

CONTRACTOR STAGING AREA PLAN

SCALE: 1"= 100'



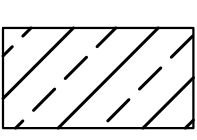
ENVIRONMENTAL
FEATURES



CONTRACTOR
STAGING



CLEARING AND
GRUBBING



CONTRACTOR STAGING/CLEARING AND GRUBBING
AREA LIMITS

POINT NO	NORTHING	EASTING	POINT NO	NORTHING	EASTING
100	2602367.96	6462534.81	137	2601340.31	6460854.39
101	2602404.54	6462489.25	138	2601434.31	6460959.64
102	2602457.99	6462556.33	139	2601467.36	6461090.05
103	2602467.25	6462567.95	140	2601500.86	6461120.79
104	2602516.86	6462553.88	141	2601500.86	6461144.08
105	2602571.16	6462643.30	142	2601539.49	6461188.79
106	2602598.15	6462646.66	143	2601532.51	6461204.16
107	2602615.44	6462685.62	144	2601416.63	6461169.69
108	2602610.81	6462714.54	145	2601368.83	6461131.41
109	2602625.47	6462732.73	146	2601271.89	6461290.13
110	2602585.24	6462837.04	147	2601276.38	6461770.95
111	2602573.03	6462814.70	148	2601341.25	6461923.52
112	2602540.59	6462797.85	149	2601704.78	6462070.14
113	2602533.85	6462745.38	150	2602129.30	6462760.19
114	2602500.37	6462735.02	151	2602168.58	6462743.16
115	2602472.02	6462661.21	152	2602209.27	6462778.05
116	2602437.64	6462655.70	153	2602277.64	6462700.94
117	2602423.38	6462630.97	154	2602313.83	6462761.45
118	2602369.16	6462693.45	155	2602289.05	6462846.45
119	2602330.97	6462628.95	156	2602259.67	6462821.26
120	2602383.73	6462562.17	157	2602100.30	6463066.61
121	2602390.33	6462212.25	158	2601872.64	6462871.43
122	2602400.09	6462090.32	159	2602083.01	6462780.25
123	2602386.51	6462048.87	160	2601682.88	6462115.22
124	2602385.97	6461900.76	161	2601303.34	6461962.14
125	2602357.94	6461900.67	162	2601226.47	6461781.37
126	2602364.24	6461840.40	163	2601221.76	6461276.26
127	2602324.90	6461739.94	164	2601329.30	6461100.52
128	2602312.46	6461715.94	165	2601262.59	6461047.67
129	2602273.19	6461679.92	166	2601253.28	6460960.11
130	2602262.01	6461704.63	167	2602022.16	6461187.92
131	2602346.77	6461900.36	168	2602022.35	6461300.34
132	2602452.25	6461783.41	169	2602007.58	6461297.37
133	2602435.65	6461839.08	170	2601992.81	6461266.34
134	2602435.65	6462000.81	171	2601992.81	6461225.01
135	2602457.59	6462224.47	172	2602009.45	6461189.99
136	2602447.96	6462281.50			



KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

CONTRACTOR STAGING AREA

DESIGNED J. BURNS

DRAWN J. CHASE

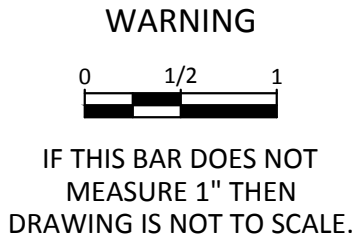
CHECKED J. LOWY

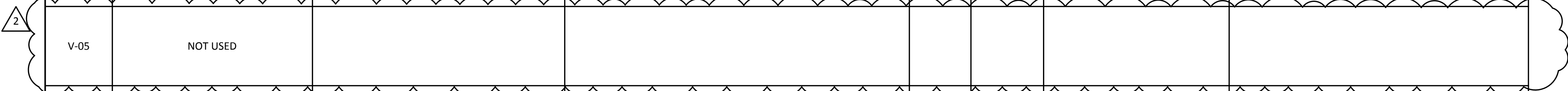
PROJECT DATE 5/25/22


DRAWING

G006

REV	DATE	BY	DESCRIPTION
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION





FLUID ABBREVIATION	FUNCTION		ALLOWABLE PIPING MATERIAL GROUP NO. (SEE NOTE 1 AND 4)				FIELD TEST REQUIREMENTS (SEE NOTE 3 AND NOTE 4)			PIPING MATERIAL SCHEDULE (SEE NOTE 1)				TYPICAL PIPE DESIGNATION: <div><div><div>2" UW (24)</div><div>PIPE DIAMETER</div><div>MATERIAL GROUP NUMBER (SEE NOTE 12)</div><div>FLUID ABBREVIATION</div></div></div>	
	THIS LIST MAY INCLUDE FLUIDS NOT USED IN THIS PROJECT		EXPOSED PIPING (SEE NOTE 14)		BURIED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE PSI	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)	GROUP NO.	PIPE MATERIAL	FITTINGS / JOINTS	LININGS AND COATINGS (SEE NOTE 13)		
										2	STEEL, ASTM A53, SCHEDULE 40 FOR 6" & SMALLER, BLACK WELDED GALVANIZED, HOT-DIP.	3" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, GALVANIZED. 4" AND LARGER, ASME B16.5 CLASS 300, FLANGED.	GALVANIZED, SEE SECTION 40 23 15 (PVC TAPE COAT WHEN BURIED)		
											6	STEEL, A53, GRADE A STD, SEAMLESS, BLACK.	FABRICATED BUTT WELD OR FLG JOINTS, AWWA C208 MODIFIED PER SECTION 33 11 11.		
RW	RAW WATER	--	8 OR 6	--	8 OR 6	375	WATER	(A)	8	SPIRAL WELDED STEEL PIPE, 5/16" WALL THICKNESS (AWWA C200 & MODIFIED PER SECTION 331111) (ALL PIPE CALLOUT DIAMETERS ARE 'OD' OF STL SHELL)	FABRICATED BUTT WELD OR FLG JOINTS, AWWA C208 MODIFIED PER SECTION 33 11 11.	CEMENT MORTAR LINED PER AWWA C205, SEE SECTION 33 11 11	NOTES: NOTE 1 ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE. NOTE 2 LEAKAGE ALLOWANCE IS AS FOLLOWS A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE. B. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE. C. PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE. D. PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT. E. PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 4 INCHES MERCURY COLUMN. NOTE 3 FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS. NOTE 4 NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS. NOTE 5 NOT USED. NOTE 6 STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE. NOTE 7 INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODE. NOTE 8 NO APPARENT LEAKS UNDER NORMAL OPERATING CONDITIONS. NOTE 9 INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS. NOTE 10 PIPING MATERIALS SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS. NOTE 11 FOR VALVES 4" AND LARGER SEE VALVE SCHEDULE FOR SPECIAL VALVES SEE SPECIFICATIONS. NOTE 12 CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS:  NOTE 13 FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE SPECIFICATIONS. NOTE 14 EXPOSED OUTDOOR PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY OWNER. NOTE 15 NOT USED NOTE 16 NOT USED NOTE 17 FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL-OUTS SHALL BE THE MINIMUM INSIDE DIAMETER. PIPE WALL THICKNESS SHALL BE PER DR RATING REQUIREMENT.		
VT	VENT AIR	2	--	2	--	15 IN Hg	AIR/VAC	(A) (D)							
VALVE SCHEDULE															
VALVE NUMBER	LOCATION AND SERVICE	BODY & DISC MATERIALS				VALVE TYPE, ENDS			DIAMETER (IN)	MIN. WORKING PRESSURE (PSIG)	VALVE SHAFT/STEM AND HARDWARE	ACTUATOR TYPE, (NORMAL VALVE POSITION)			
V-01	RW ISOLATION, 45-60F	CARBON STEEL (FBE COATED AND LINED), DUCTILE IRON (FBE COATED AND LINED), OR ASTM 2205 DUPLEX STAINLESS STEEL				HIGH PERFORMANCE BUTTERFLY VALVE, ASME/ANSI B16.5 CLASS 300 FLANGE			24	360	SEE SPEC SECTION 43 25 02 BUTTERFLY VALVES	HANDWHEEL (OPEN)			
V-02	NOT USED														
V-03	DRAIN PIPE/RW DRAIN, 45-60F	316 STAINLESS STEEL, CARBON STEEL OR DUCTILE IRON				HIGH PERFORMANCE BUTTERFLY VALVE, LUGGED DRILLING OR FLANGED			4	360	SEE SPEC SECTION 43 25 02 BUTTERFLY VALVES	WORM GEAR BURIED SERVICE OPERATOR WITH 2" OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR (8 +/-4 DFT MILS TNEMIC 141 EXPOXY) (CLOSED)			
V-04	DRAIN PIPE/RW DRAIN, 45-60F	316 STAINLESS STEEL, CARBON STEEL OR DUCTILE IRON				HIGH PERFORMANCE BUTTERFLY VALVE, LUGGED DRILLING OR FLANGED			4	360	SEE SPEC SECTION 43 25 02 BUTTERFLY VALVES	WORM GEAR BURIED SERVICE OPERATOR WITH 2" OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR (8 +/-4 DFT MILS TNEMIC 141 EXPOXY) (CLOSED)			
V-05	NOT USED														
V-06	DRAIN PIPE/RW DRAIN, 45-60F	316 STAINLESS STEEL, CARBON STEEL OR DUCTILE IRON				HIGH PERFORMANCE BUTTERFLY VALVE, LUGGED DRILLING OR FLANGED			4	360	SEE SPEC SECTION 43 25 02 BUTTERFLY VALVES	WORM GEAR BURIED SERVICE OPERATOR WITH 2" OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR (8 +/-4 DFT MILS TNEMIC 141 EXPOXY). POLYWRAP VALVE AND OPERATOR. (CLOSED)			
AV-01	AIR & VAC COMBINATION	DUCTILE IRON (VALVE SHALL MEET AWWA C512)				3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET			3	360	3" NPT INLET & OUTLET,#37 0.104 AVO, S/S TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS	SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY			
AV-02	AIR & VAC COMBINATION	DUCTILE IRON (VALVE SHALL MEET AWWA C512)				3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET			3	360	3" NPT INLET & OUTLET,#37 0.104 AVO, S/S TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS	SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY			
AV-03	AIR & VAC COMBINATION	DUCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512)				3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET			3	360	3" NPT INLET & OUTLET,#37 0.104 AVO, S/S TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS	SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY			
AV-04	NOT USED														

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YREKA WATERLINE MODIFICATION PROJECT YREKA PIPELINE																					
SEGMENT #:	OPTION:	PIPE DIAMETER & WALL THICKNESS DATA											PIPE JOINT DATA				PIPE COATING AND LINING DATA				PIPE STICK DATA
		PIPE MATERIAL GROUP NO.	FROM STATION #:	TO STATION #:	~ SEGMENT LENGTH	LOCATION	STEEL SHELL OUTSIDE DIAM	STEEL SHELL INSIDE DIAM	MIN. WALL THICKNESS	MIN REQ'D STEEL YIELD STRESS	HYDRO STATIC PRESSURE	MIN. HYDRO-STATIC TEST PRES.	JOINT TYPE	INSIDE JOINT WELD REQ'D?	OUTSIDE JOINT WELD REQ'D?	RESTRAINED JOINT?	PIPE LINING SYSTEM	PIPE COATING SYSTEM	HANDHOLE REQ'D?	SWABBING REQ'D	MIN. REQUIRED STICK LENGTH
		(NOTE 1)	(NOTE 1)	(NOTE 1)	(FT)		(INCHES)	(INCHES)	(INCH, NOTE 2)	(KSI)	(PSIG)	(PSIG, NOTE 3)									
1	A	6 (ASTM A53, LONG. WELD)	00+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	LIQUID EPOXY PER AWWA C210	CONCRETE MORTAR PER AWWA C205 OR FUSION BONDED EPOXY AWWA 213	YES	NO	40
	B	8 (AWWA C200 SPIRAL WELD)					25	24.4	0.3125	42							CONCRETE MORTAR PER AWWA C205	CONCRETE MORTAR PER AWWA C205	YES	YES	40
2			21+45	24+81	336	BRIDGE CROSSING: SOUTH EDGE OF BRIDGE TO NORTH EDGE OF BRIDGE					300	375	BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703)	NO	NO	YES					
	B	8 (AWWA C200, SPIRAL WELD)					25	23.5	0.750	42							LIQUID EPOXY PER AWWA C210	LIQUID EPOXY PER AWWA C210	NO	NO	40
3	A	6 (ASTM A53, LONG. WELD)	24+81	32+67	786	NORTH EDGE OF BRIDGE TO NORTH TIE IN LOCATION	24	23.3	0.3750	36	300	375	BUTT WELD - SINGLE OUTSIDE BEVEL (DETAIL C703)	NO	YES	YES	LIQUID EPOXY PER AWWA C210	CONCRETE MORTAR PER AWWA C205 OR FUSION BONDED EPOXY AWWA 213	YES	NO	40
	B	8 (AWWA C200, SPIRAL WELD)					25	24.4	0.3125	42							CONCRETE MORTAR PER AWWA C205	CONCRETE MORTAR PER AWWA C205	YES	YES	40
					TOTALS:	3,267															
NOTES:																					
1. CONTRACTOR'S PIPE SUPPLIER SHALL VERIFY ALL EXACT STATION VALUES W/ 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 75 PSIG 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:

- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN UNSCREENED AND HEAVY-LINED.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- VERTICAL DATUM BASED UPON NAVD 88 DATUM, GEOID 12B.
- HORIZONTAL DATUM BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
- STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS, SEE SHEET G006. COORDINATE SPECIFIC AREA LIMITS WITH OWNER.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- A GEOTECHNICAL EVALUATION WAS PREFORMED FOR THIS PROJECT. A 2019 GEOTECHNICAL ENGINEERING EVALUATION REPORT WAS PREPARED BY AECOM TECHNICAL SERVICES AND CDM SMITH. A GEOTECHNICAL MEMO WAS PREPARED BY CDM SMITH BASED ON THE REVIEW OF THE LARGER REPORT FOR THIS PROJECT AND IS ATTACHED TO THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT KRRC A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES TO REQUEST VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
- PROVIDE MINIMUM 2.5-FT COVER OVER WATER MAIN PIPES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 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, BACKFILL MATERIAL, AND PIPE MATERIAL.

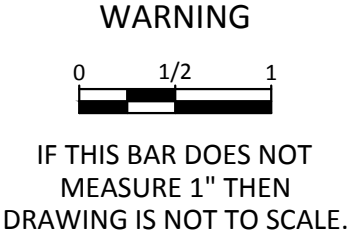
GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE (OR AN ON-SITE MEETING) WITH THE PROJECT REPRESENTATIVE PRIOR TO THE START OF WORK.
- CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOUR PRIOR NOTICE.
- ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS 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 SET FORTH IN THE PROJECT SPECIFICATIONS.
- WORK SUBJECT TO APPROVAL BY ENGINEER MUST BE APPROVED PRIOR TO (A) BACKFILL TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING; (E) OR AS OTHERWISE SPECIFIED.
- 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:

- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM TOPOGRAPHIC FIELD SURVEY PROVIDED BY KRRP. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. IF EXISTING UTILITIES (GAS, ELECTRIC, POTABLE WATER, ETC.) ARE IN CONFLICT WITH THE PIPELINE REALIGNMENT OR TRENCH ALIGNMENT, CONTRACTOR SHALL CONTACT ENGINEER.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN UNSCREENED AND HEAVY-LINED.
- ALL PIPES SHALL HAVE CONSTANT UNIFORM SLOPE.
- THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) 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 64572, TITLE 22, CALIFORNIA ADMINISTRATION CODE.
- CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES, UTILITIES, BUILDINGS AND FOUNDATIONS IMPACTED BY CONSTRUCTION.
- ALL VALVES SET FLUSH WITH GRADE SHALL HAVE BOXES AND COLLARS.


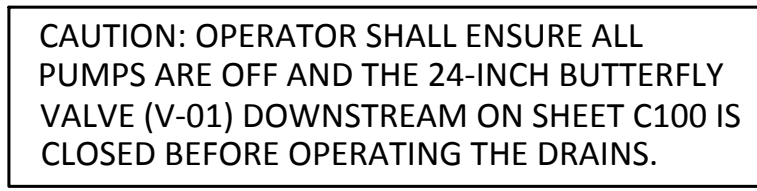
DESIGN CRITERIA			
CRITERIA	UNITS	VALUE	COMMENTS
MAXIMUM DESIGN FLOW	CFS	15	MAXIMUM DESIGN FLOW WITH THREE PUMPS RUNNING
AVERAGE SUMMER PEAK FLOW RATE	CFS	11	PEAK FLOW RATE DURING SUMMER MONTHS WITH TWO PUMPS RUNNING
AVERAGE WINTER PEAK FLOW RATE	CFS	6	PEAK FLOW RATE DURING WINTER MONTHS WITH ONE PUMP RUNNING
DESIGN HYDROSTATIC PRESSURE	PSIG	294	PROVIDED BY ORIGINAL AS-BUILT DRAWINGS
DESIGN MAXIMUM OPERATING PRESSURE	PSIG	310	CALCULATED FOR 15 CFS FLOW RATE
DESIGN MAXIMUM SURGE PRESSURE	PSIG	360	PROVIDED BY ORIGINAL AS-BUILT DRAWINGS
PIPE NOMINAL OUTER DIAMETER	IN	24-25	STEEL PIPE. FOR PIPING OPTIONS SEE G008.



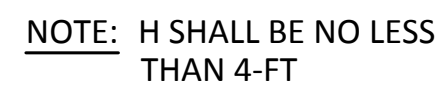

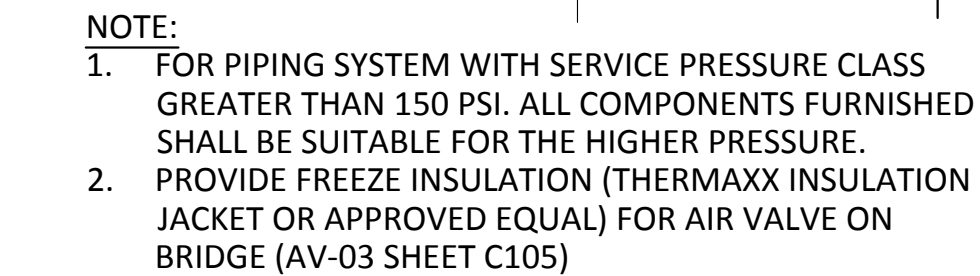

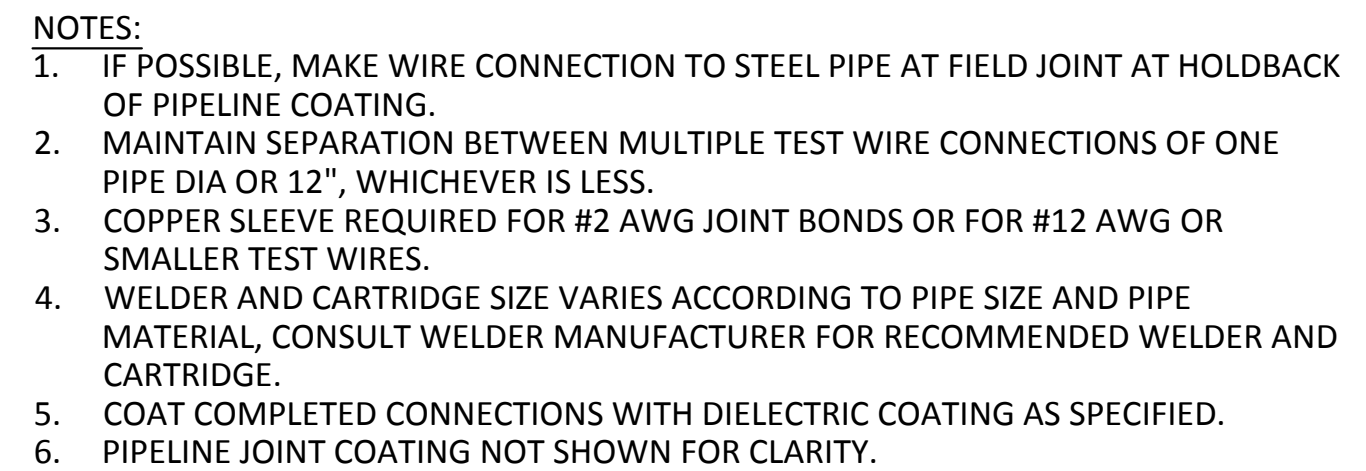
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>J. BURNS</u>
CITY OF YREKA WATER LINE		DRAWN <u>R. WOOD</u>
GENERAL CIVIL NOTES		CHECKED <u>J. LOWY</u>
		PROJECT DATE <u>5/25/22</u>


DRAWING
GC001



C901




*NOTE THAT THIS BEARING CAPACITY DOES NOT APPLY TO ANY OTHER PORTIONS OF PROJECT & SHALL BE USED ONLY FOR THE WATERLINE THRUST BLOCK CALCS. CONTRACTOR SHALL UTILIZE 310 PSIG PRESSURE COLUMN WHEN DETERMINING REQUIRED BEARING AREA FROM TABLE ABOVE.



WARNING

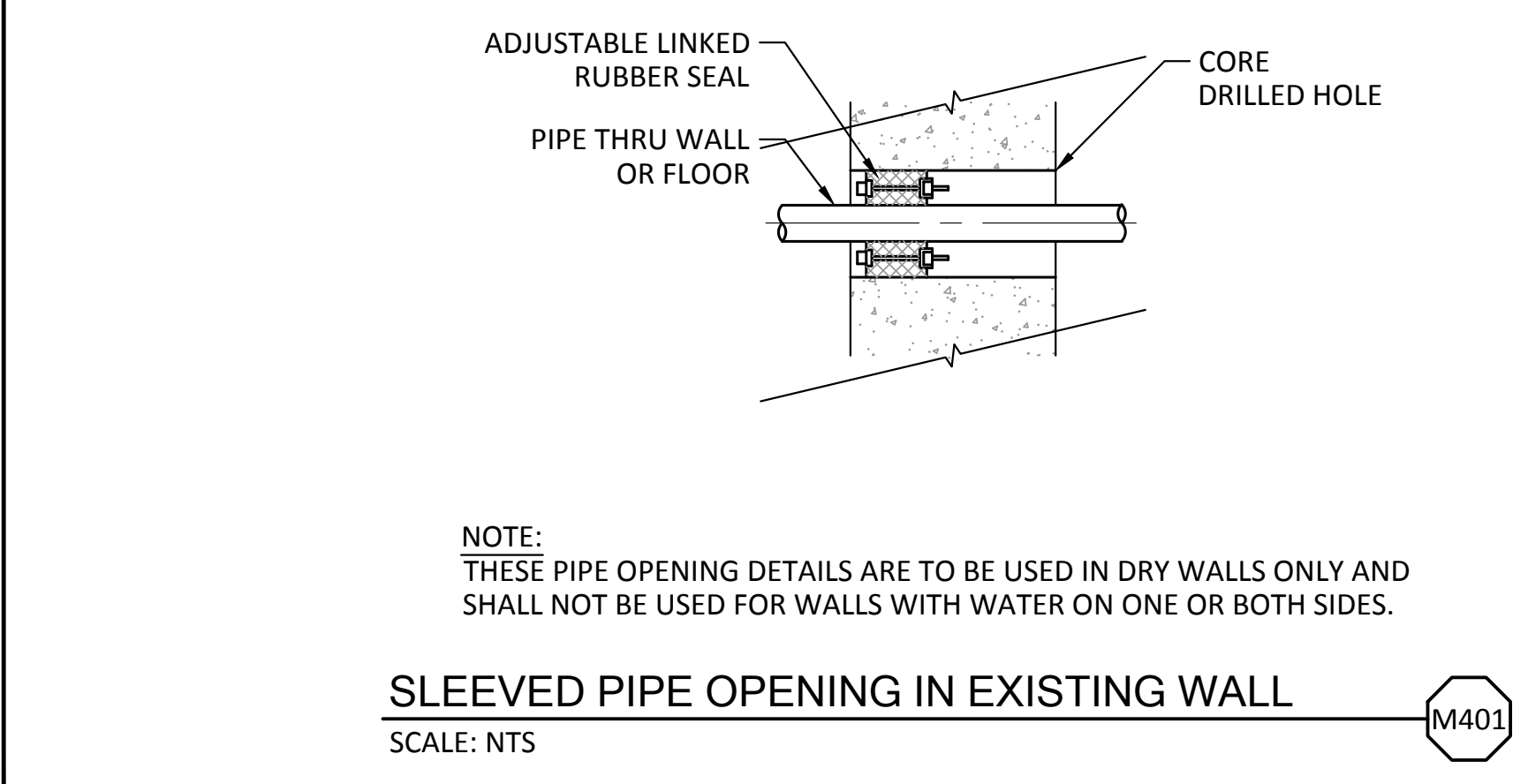
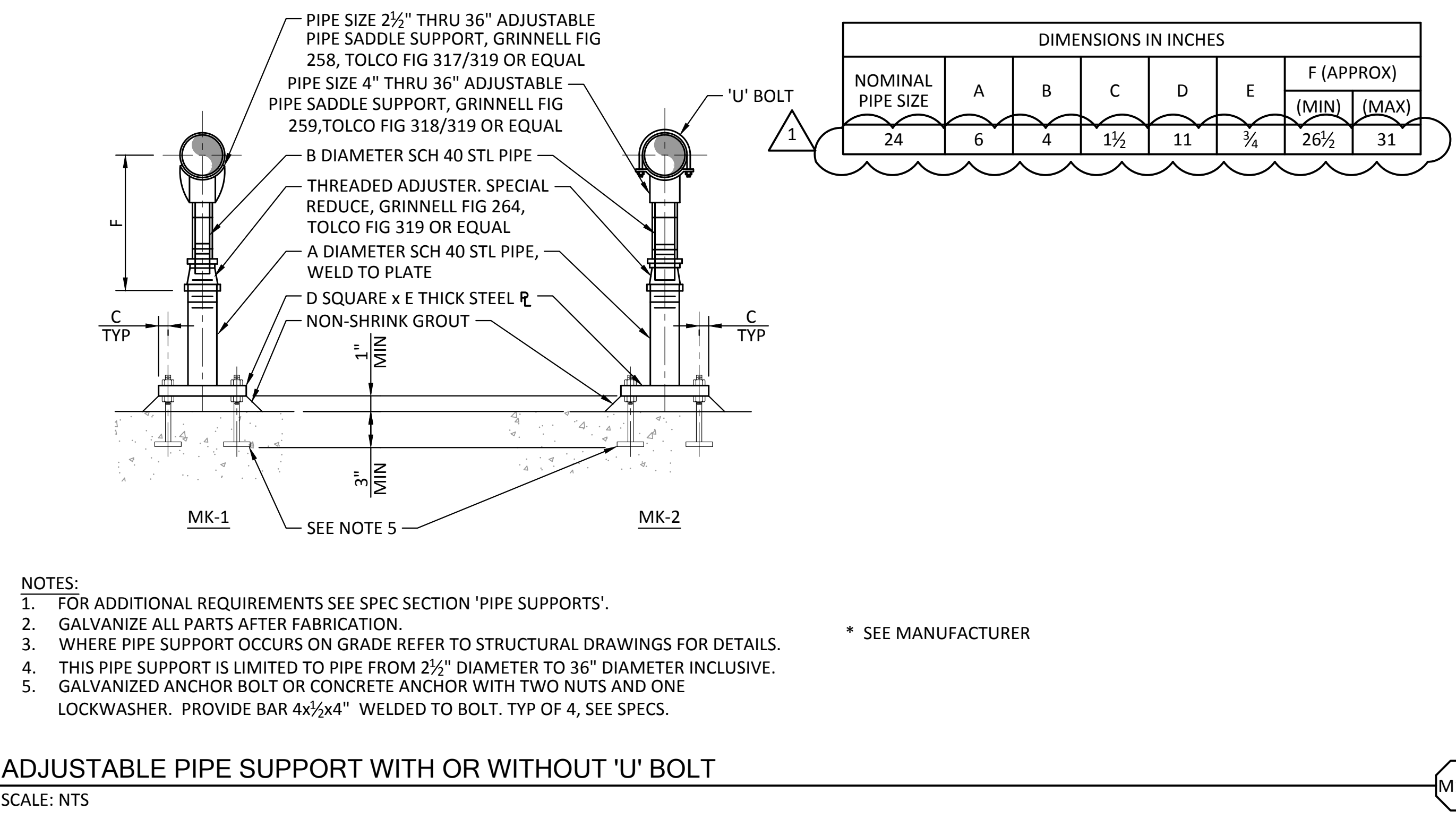
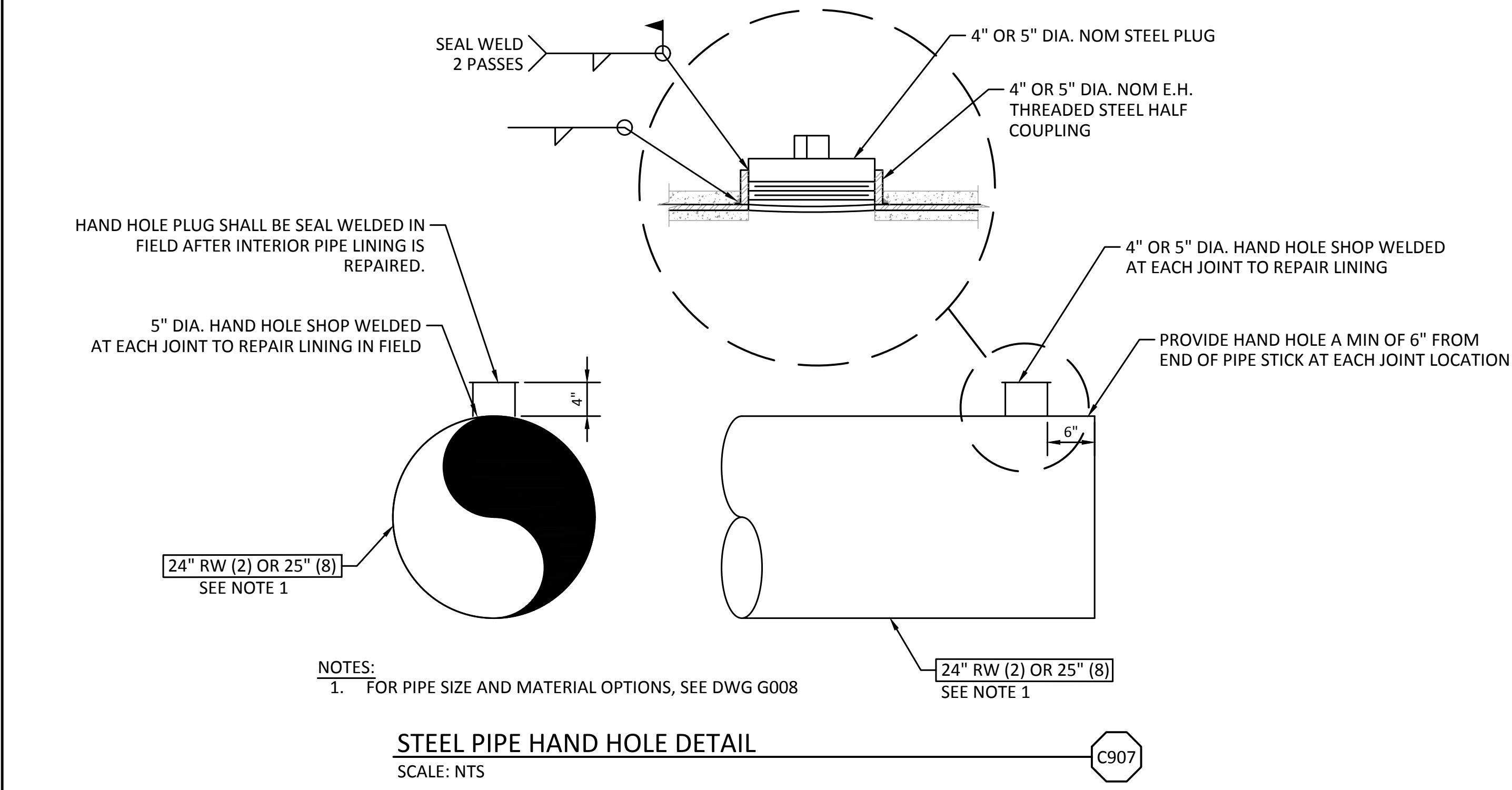
0 1/2 1



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>J. BURNS</u> DRAWN <u>J. CHASE</u> CHECKED <u>J. LOWY</u> PROJECT DATE <u>5/25/22</u>	DRAWING <div>GC004</div>
CITY OF YREKA WATER LINE			
CIVIL STANDARD DETAILS 3			



Path: C:\Vault20\Klamath River Renewal Corp\City of Yreka Water Line\GC005.dwg Plot date: Jun 10, 2022 11:27am, CAD User: JoeNeves

SHEET NOTES:

1. THE EXPOSED AND DISTURBED AREAS SHALL BE REGRADED TO MATCH EXISTING AND RESEED WITH NATIVE GRASS PER OWNER REQUIREMENTS
2. ALL FILL MATERIALS AND COMPACTION REQUIREMENTS ARE DEFINED IN SPECIFICATION SECTION 31 00 00.
3. MATCH EXISTING GRADE AND PROVIDE SMOOTH TRANSITION BETWEEN ALL NEW SURFACING AND EXISTING GRADE.

EROSION AND SEDIMENT CONTROL NOTES:

GENERAL NOTES:

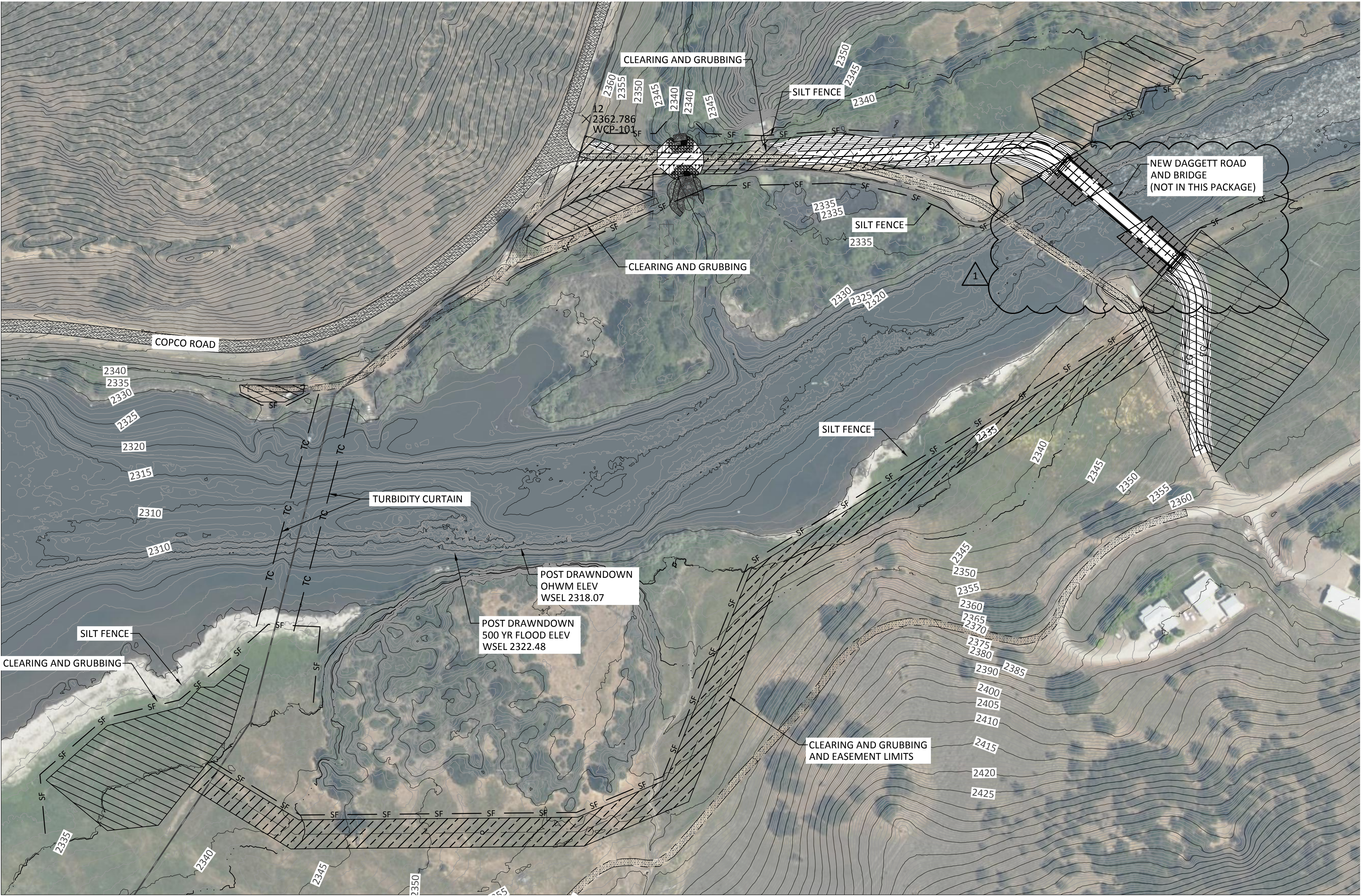
1. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 - A. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES (MULCHING OF STRAW, SAND DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS TO EXIST PUBLIC OR PRIVATE ROADWAY, ONTO ADJACENT PROPERTIES, INTO FALL CREEK, OR INTO KLAMATH RIVER DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW.
 - B. THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THE EC DRAWINGS ARE PROVIDED TO AID THE CONTRACTOR IN DEVELOPING THE EROSION AND SEDIMENT CONTROL PLAN ACCORDING TO CONTRACTOR SCHEDULE AND PHASING OF THE PROJECT.
 - C. EROSION CONTROL DETAILS ARE FOR INFORMATION ONLY TO AID THE CONTRACTOR. THE FINAL LOCATIONS AND DETAIL SHALL BE SHOWN ON THE CONTRACTOR'S PREPARED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT.
 - D. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT. MAINTENANCE OF BOTH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL.
 - E. ALL BMP REQUIRED MATERIALS SHALL MEET OR EXCEED STATE OF CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) REQUIREMENTS.
 - F. CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP.
 - G. THE CONTRACTOR'S ECP SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN SPECIFICAION SECTION 31 25 00 EROSION SEDIMENTATION CONTROLS PREPARED BY KIGHT PIESOLD CONSULTING.

GRADING AND FINAL STABILIZATION:

1. CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN CLEARING LIMITS AND SHALL MEET THE REQUIREMENTS OF SPECIFICATION 31 11 00. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. PRESERVE EXIST VEGETATION BEYOND DISTURBED AREA - UTILIZE AS NATURAL BUFFER STRIPS.
2. DURING CONSTRUCTION, PROVIDE POSITIVE DRAINAGE AWAY FROM FACILITIES.
3. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES, FENCING, AND STAGING AREA MATERIALS WHEN CONSTRUCTION IS COMPLETE. NO CONSTRUCTION DEBRIS, DEMOLITION MATERIALS, OR EXCESS EQUIPMENT SHALL BE LEFT ON SITE.
4. CONTRACTOR SHALL REGRADE DISTURBED SLOPED TO NEAR EXIST CONDITION AS APPROVED BY THE OWNER.
5. ESTABLISH A TEMPORARY VEGETATIVE COVER ON ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER THE LAST GROUND DISTURBING ACTIVITIES IN THE AREA. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH NATIVE VEGETATION, PER SPECIFICATION 31 25 00, AND IN ACCORDANCE WITH SHEET EC100.

BMP MEASURES:

1. ALL RUNOFF FROM SITE CONSTRUCTION ACTIVITIES AND FROM RAINFALL EVENTS SHALL BE DETAINED ON SITE AND FILTERED PRIOR TO DISCHARGE. STORMWATER RUNOFF SHALL NOT BE ALLOWED TO LEAVE THE SITE UNTREATED (LADEN W/ SUSPENDED SEDIMENT). IF THIS OCCURS, THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY PERMIT VIOLATIONS AND FINES.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND/OR STRAW WATTLES AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT CONTRACTOR'S EXPENSE.
4. THE SILT FENCE AND/OR STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES ADEQUATE SPRINKLER EQUIPMENT TO FACILITATE DUST ABATEMENT AND CONTROL. CONTRACTOR SHALL PROVIDE ALL WATER NECESSARY FOR SPRINKLER OPERATIONS.
6. STOCKPILED EXCAVATION MATERIALS SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE. WHEN EXPOSED FOR MORE THAN 14 DAYS, COVER STOCKPILES WITH IMPERMEABLE TARPS TO PROTECT DISTURBED SOILS AND SLOPES.
7. ALL TOP SOIL SHALL BE STRIPPED AND PLACED IN SEPARATE STOCKPILE. AFTER BANK RESTORATION TO EXIST GRADE, TOP SOIL SHALL BE PLACED AND RESEED.
8. CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.
9. ENSURE ALL EQUIPMENT IS CLEAN AND FREE OF OIL/FUEL LEAKS, DIRT, PLANTS, AND ANIMALS OR FRAGMENTS OF PLANTS, AQUATIC INVASIVE SPECIES, AND OTHER VEGETATIVE MATTER.



EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"= 100'

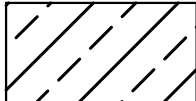
0' 100' 200'



CONTRACTOR STAGING



CLEARING AND GRUBBING



KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED J. BURNS

DRAWN R. WOOD

CHECKED J. LOWY

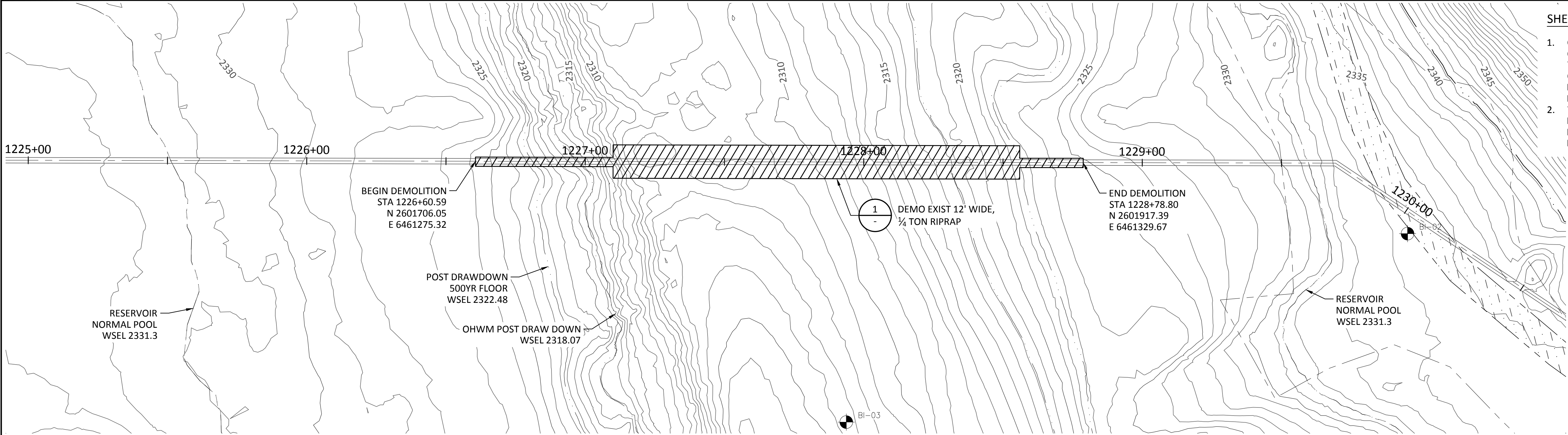
PROJECT DATE 5/25/22

DRAWING

EC100

1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

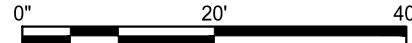
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MEASURE 1" THEN
DRAWING IS NOT TO SCALE.



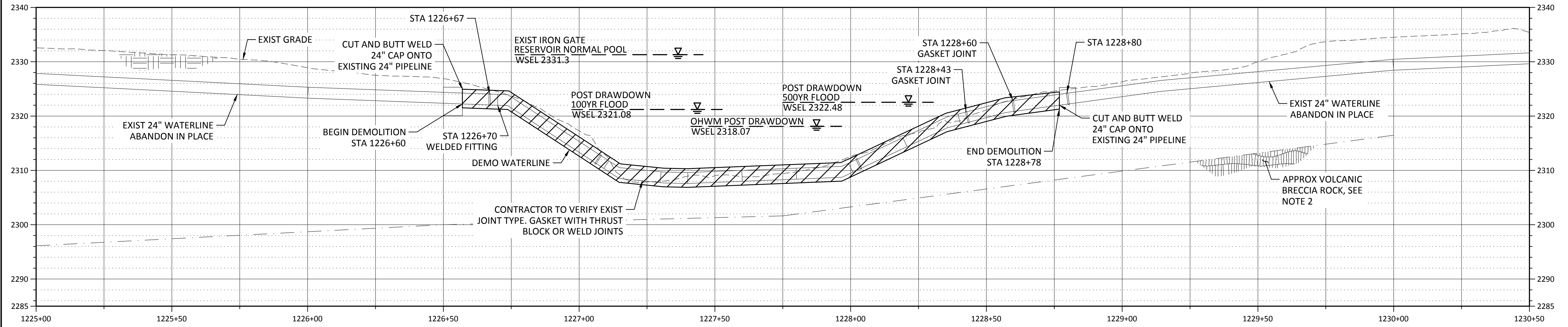
- SHEET NOTES:**
- CONTRACTOR SHALL DEMOLISH AND DISPOSE OF EXISTING 24-INCH DIAMETER PIPELINE AFTER THE NEW PIPELINE IS IN SERVICE AND OPERATIONAL AS APPROVED BY OWNER. DISPOSE OF MATERIALS OFFSITE AT APPROVED DISPOSAL LOCATION.
 - THE EXISTING ROCK LINE IS BASED SOLELY UPON EXISTING BORINGS COMPLETED FOR THE PROJECT. SEE SPECIFICATIONS FOR DETAILED BORING INFORMATION.

PLAN

SCALE: 1"= 20'



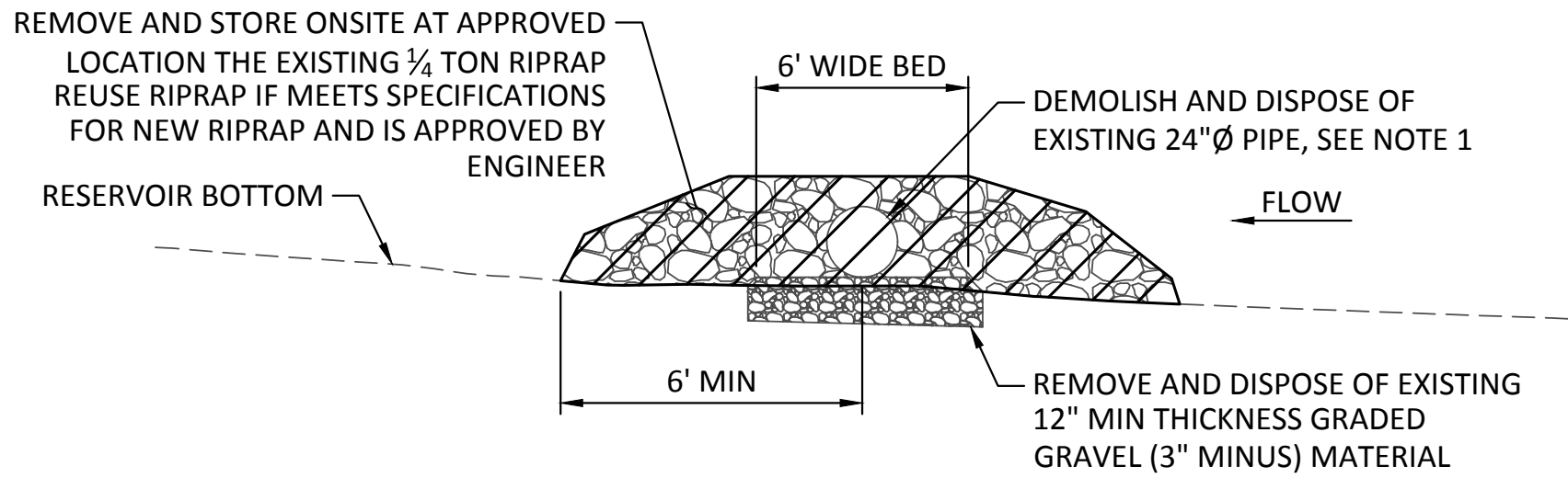
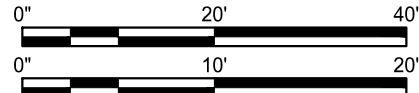
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PROFILE

SCALE: HORIZ 1"= 20'

VERT 1"= 10'



EXISTING UNDER WATER RIPRAP DETAIL

SCALE: NTS

1
-

1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION	
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	

WARNING

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

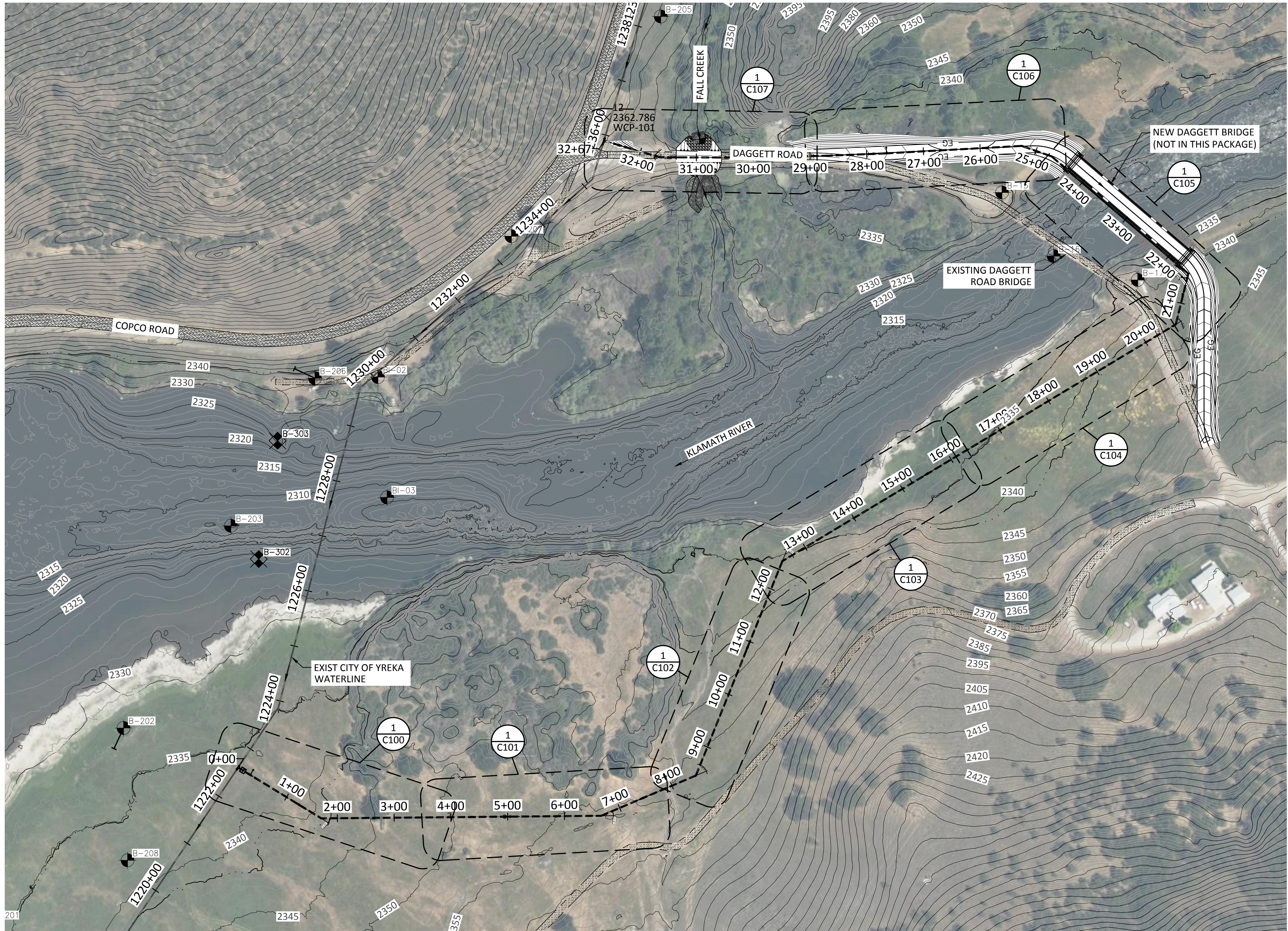


KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE
D101 - DEMOLITION WATERLINE PLAN AND PROFILE

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

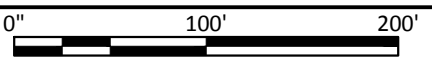
DRAWING

D101



OVERALL SITE PLAN

SCALE: 1"= 100'



1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING
IF THIS BAR DOES NOT
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KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE

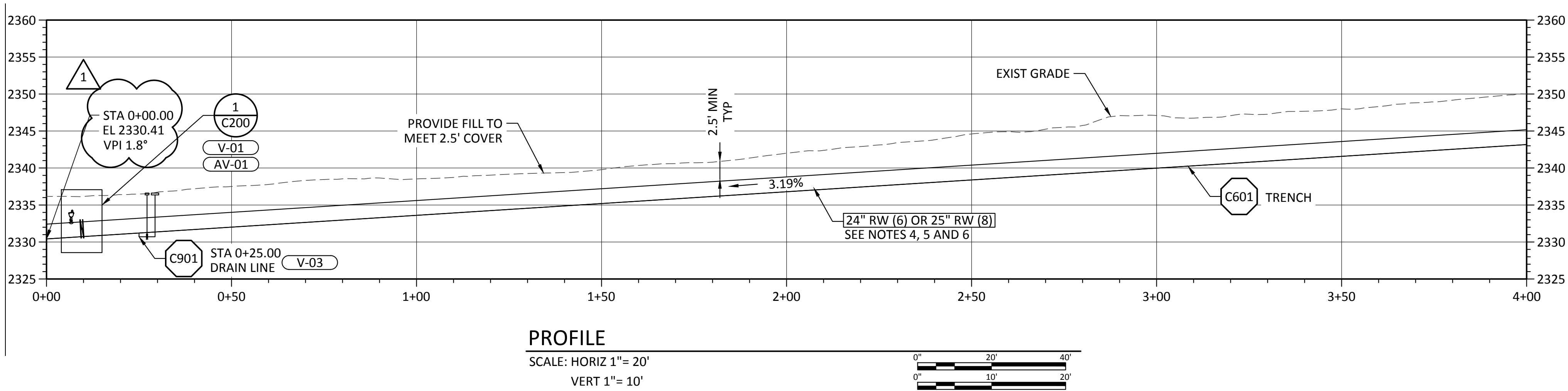
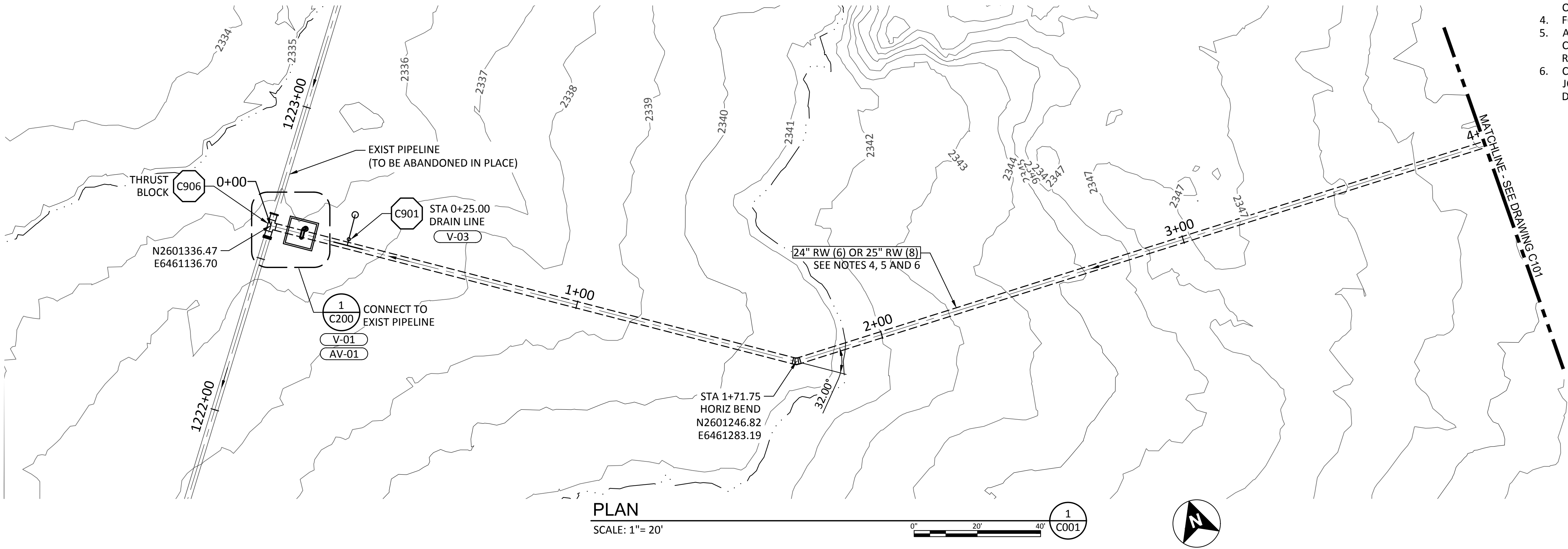
OVERALL SITE PLAN

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

DRAWING

C001

- 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 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, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.



1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING

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



KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

WATERLINE PLAN AND PROFILE 1

DESIGNED J. BURNS

DRAWN R. WOOD

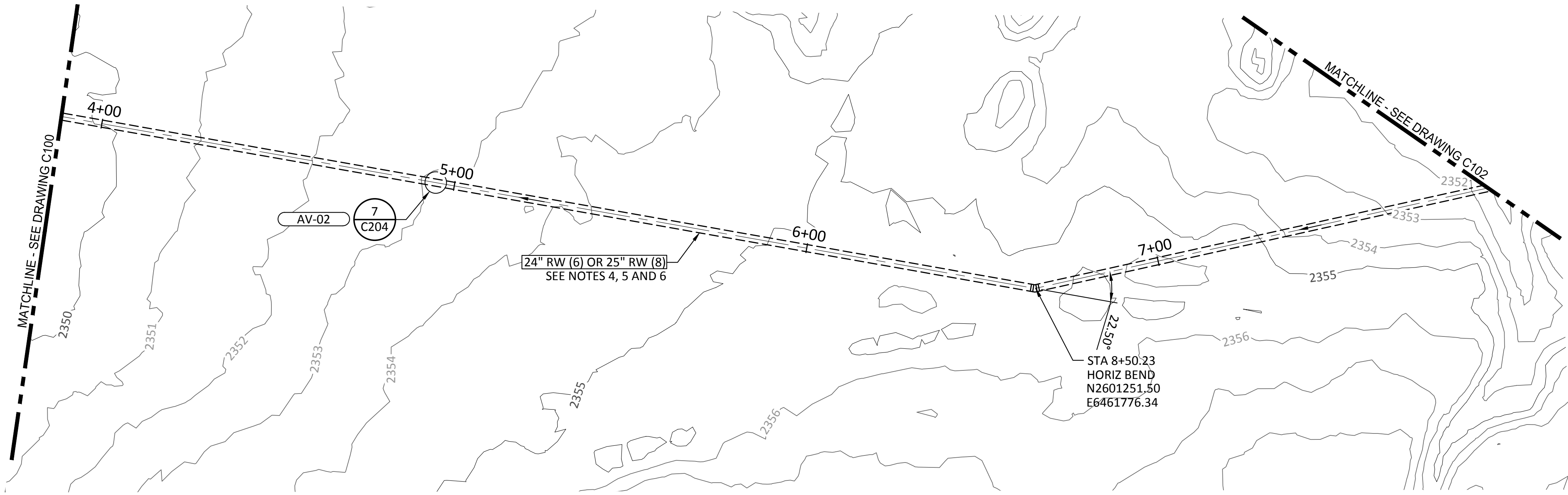
CHECKED J. LOWY

PROJECT DATE 5/25/22

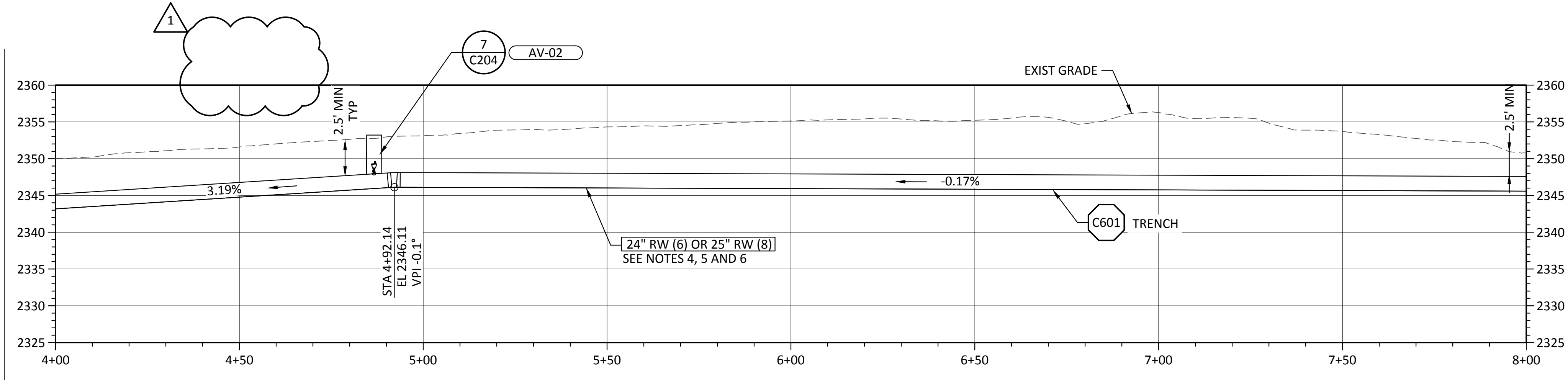
DRAWING

C100

- SHEET NOTES:
- SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
 - ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO PROVIDE A MINIMUM OF 2.5FT 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, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11.
 - CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.



PLAN
SCALE: 1" = 20'



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

1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

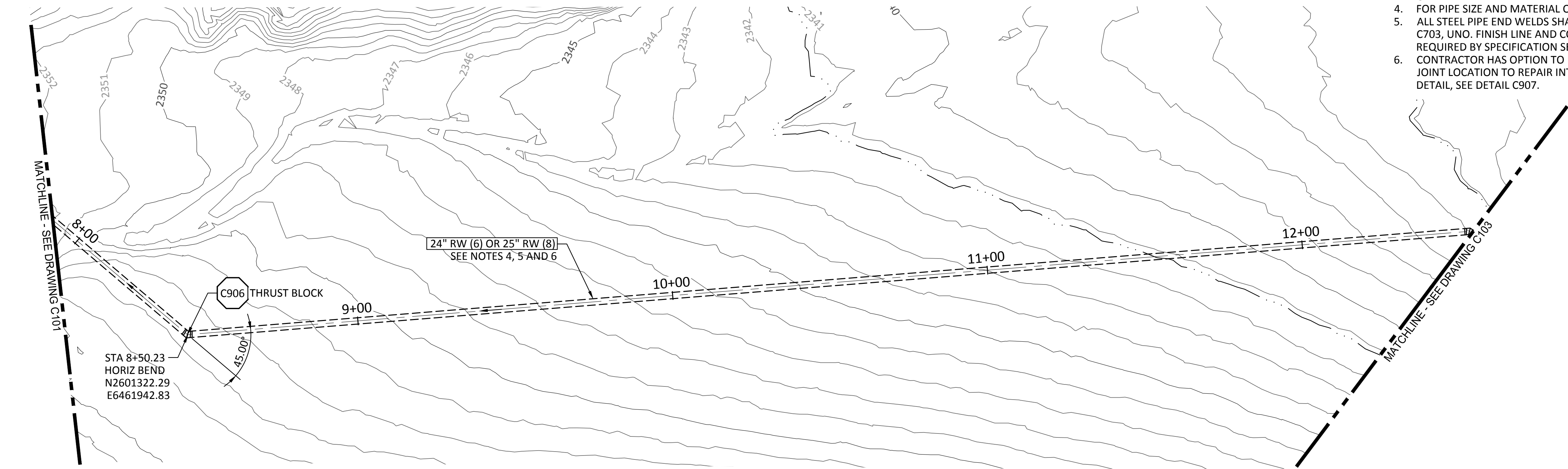
WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



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

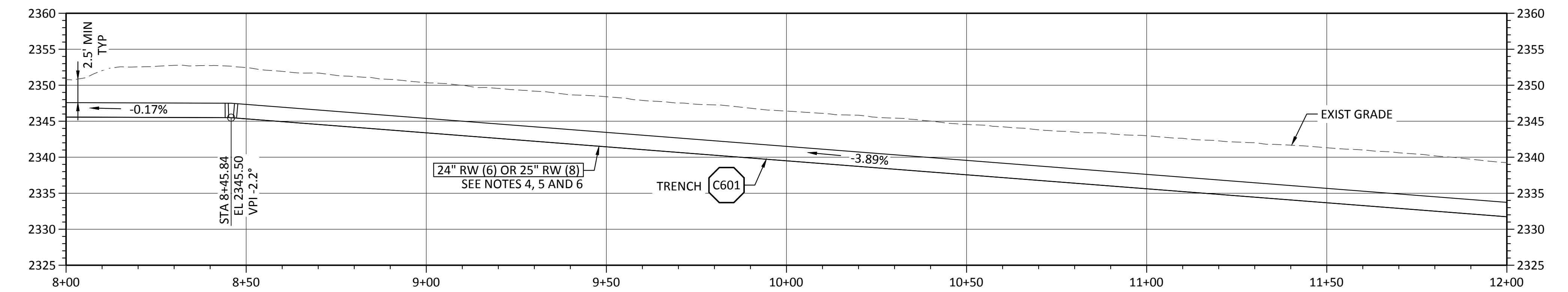
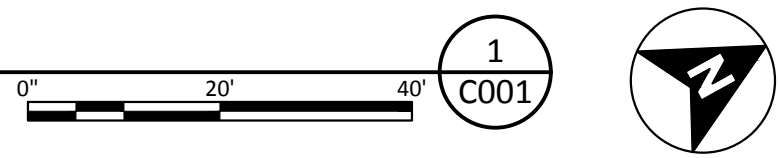
DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

DRAWING
C101



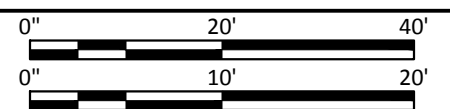
PLAN

SCALE: 1"= 20'



PROFILE

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



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 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, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.

1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

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



KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

WATERLINE PLAN AND PROFILE 3

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

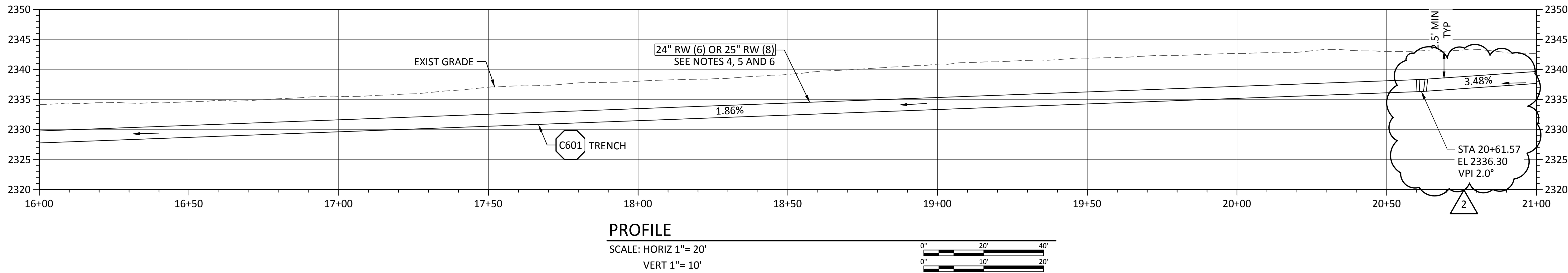
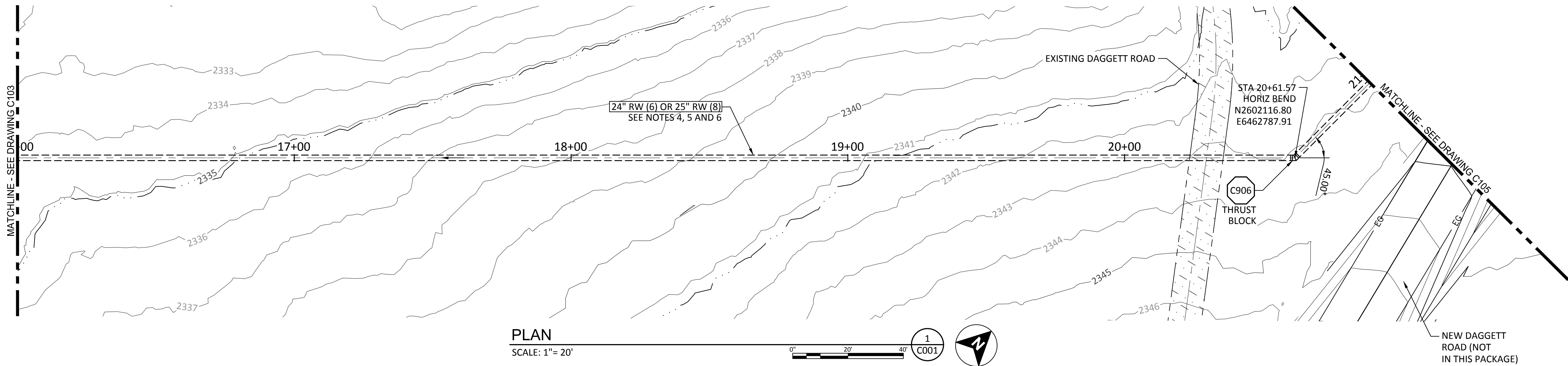
DRAWING

C102

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 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, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.

[illegible]

- SHEET NOTES:
- SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
 - ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO PROVIDE A MINIMUM OF 3.0 FT OF COVER OVER PIPELINE UNDER THE ROAD AND 2.5 FT OF COVER OUTSIDE OF ROAD.
 - FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
 - ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11
 - CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.



REV	DATE	BY	DESCRIPTION
2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION

WARNING

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

WATERLINE PLAN AND PROFILE 5

DESIGNED J. BURNS

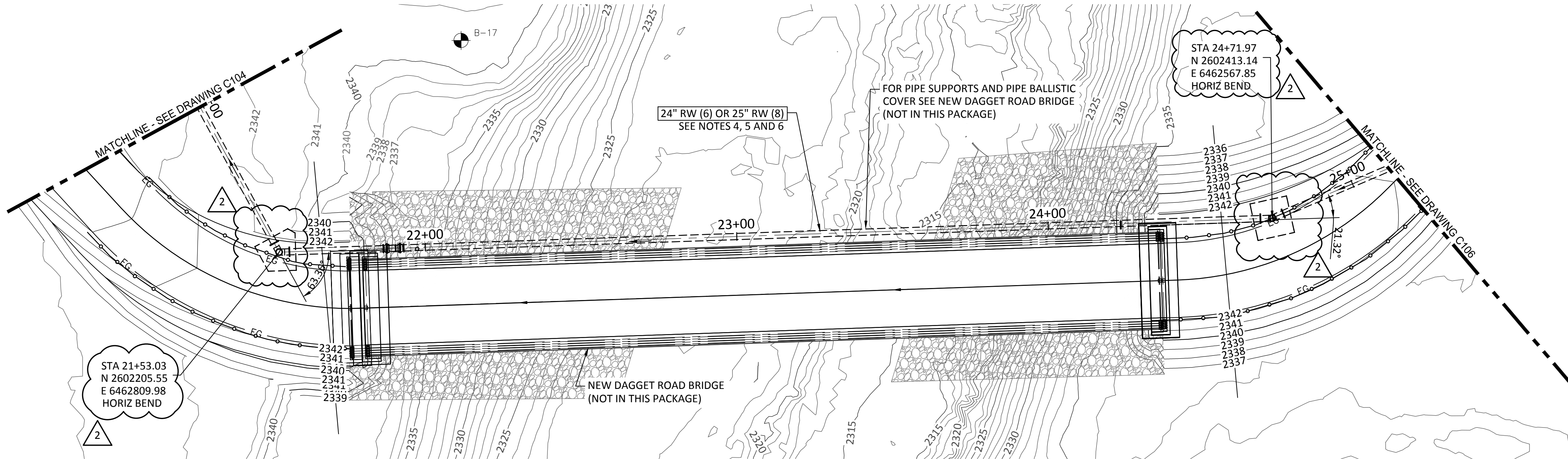
DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 5/25/22

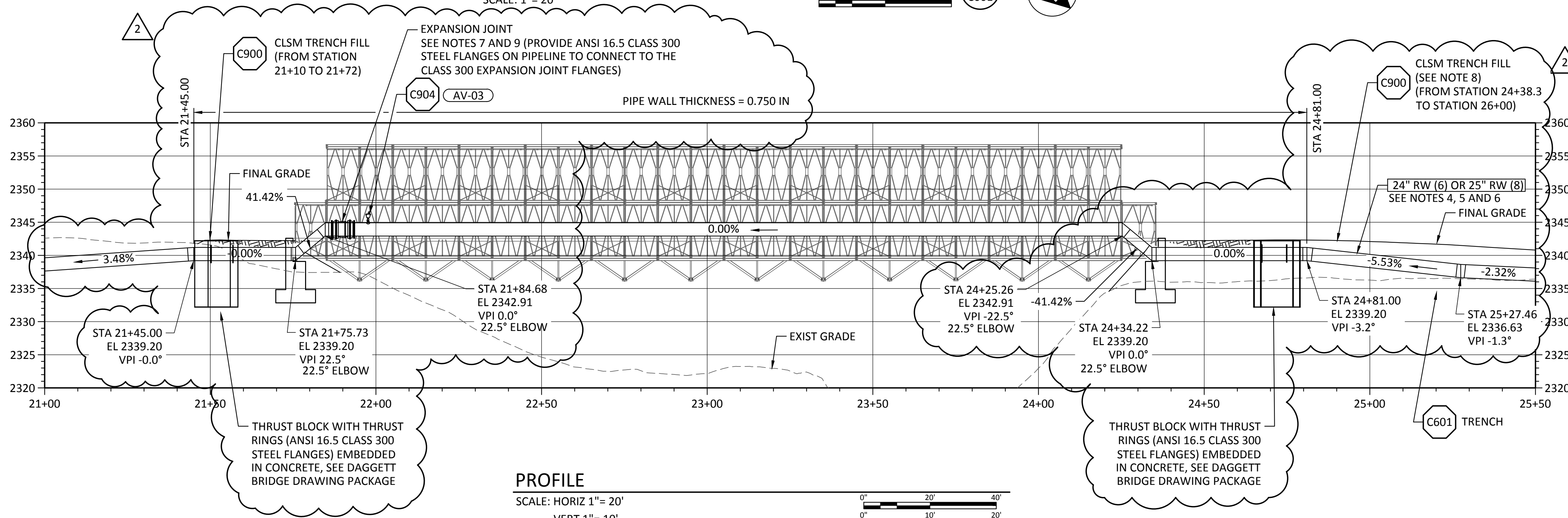
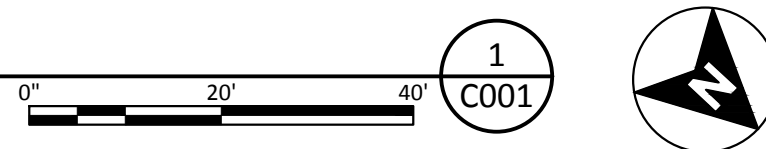
DRAWING

C104



PLAN

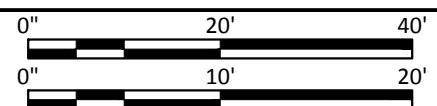
SCALE: 1"= 20'



PROFILE

SCALE: HORIZ 1"= 20'

VERT 1"= 10'



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 A MINIMUM OF 3.0 FT OF COVER OVER PIPELINE UNDER ROAD AND MINIMUM OF 2.5 FT 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 DETAIL C703, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.
7. CONTRACTOR TO PROVIDE FL X FL FLEXIBLE EXPANSION JOINT. FLEXIBLE EXPANSION JOINT SHALL BE 24-IN DIA FL X FL EBAA IRON, INC FLEX-TEND FLEXIBLE EXPANSION JOINT ASSEMBLY NO. 424F20A-FURNISH WITH ANSI 300# FLANGES (350 PSI MINIMUM WORKING PRESSURE, A MINIMUM OF 2:1 SAFETY FACTOR FROM PUBLISHED SAFETY FACTOR SHALL APPLY TO THE WORKING PRESSURE) OR APPROVED EQUAL. FLEXIBLE EXPANSION JOINT SHALL ALLOW MINIMUM OF 2-INCHES OF TRAVEL AT EXPANSION JOINT. EXTERIOR SURFACES SHALL BE COATED WITH A MINIMUM OF 6 MILS OF FUSION BONDED EPOXY CONFORMING TO THE APPLICABLE REQUIREMENTS OF ANSI/AWWA C116/A21.16. APPROPRIATELY SIZED POLYETHYLENE SLEEVES, MEETING ANSI/AWWA C105/A21.5, SHALL BE INCLUDED FOR DIRECT BURIED APPLICATIONS. INTERIOR SURFACES (WETTED PARTS) SHALL BE LINED WITH A MINIMUM OF 15 MILS FUSION BONDED EPOXY PER AWWA C213). ALL EXPANSION AND DIFFERENTIAL SETTLING JOINTS SHALL BE FURNISHED WITH FACTORY INSTALLED BONDING CONDUCTORS. CONTRACTOR SHALL BOND THE JOINTS TO THE STEEL PIPELINE PER DETAIL C902 AND THE JOINT MANUFACTURERS RECOMMENDATIONS. IF PIPE MATERIAL 8 (25" PIPE) IS USED, A 24" PIPE FLANGE SHALL BE INSTALLED ON THE PIPELINE AND SHALL BE REAMED TO PROVIDE CLEARANCE FOR 25" PIPE. THE PIPELINE FLANGE SHALL BE WELDED TO THE 25" PIPE PER AWWA D 207.
8. CLSM TRENCH BACKFILL SHALL BE USED WHERE PIPE COVER UNDER ROAD IS LESS THAN 3 FT.
9. INSTALL BONDING JUMPERS ACROSS ALL FLANGED JOINTS AND NON WELDED CONNECTIONS PER DETAIL C902.

REV	DATE	BY	DESCRIPTION
2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION

WARNING
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KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

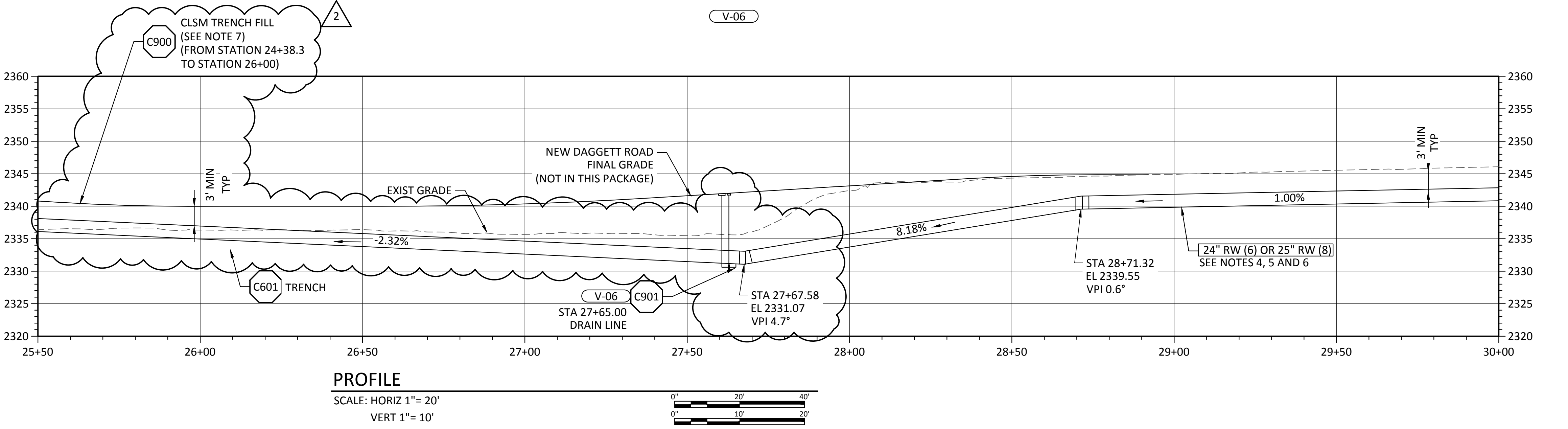
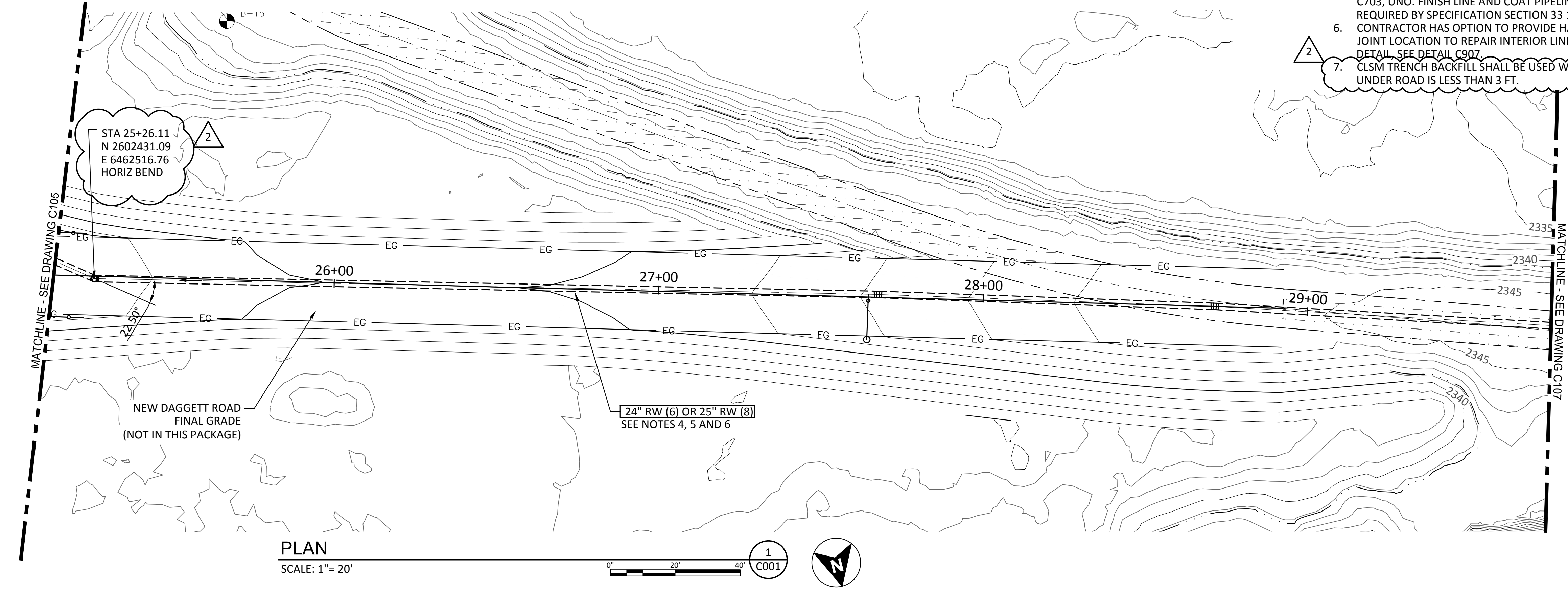
WATERLINE PLAN AND PROFILE 6

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

DRAWING

C105

- 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 A MINIMUM OF 3FT 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, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL SEE DETAIL C907
 7. CLSM TRENCH BACKFILL SHALL BE USED WHERE PIPE COVER UNDER ROAD IS LESS THAN 3 FT.



REV	DATE	BY	DESCRIPTION
2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION

WARNING

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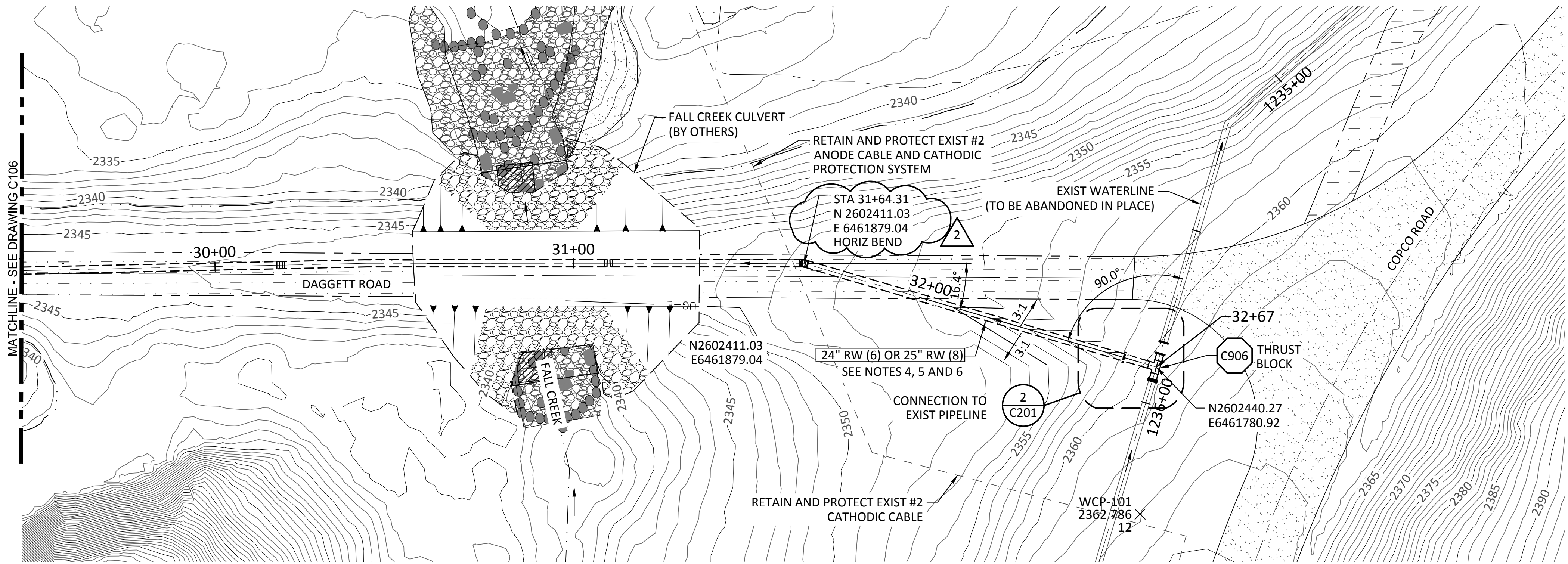
KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE
WATERLINE PLAN AND PROFILE 7

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

DRAWING

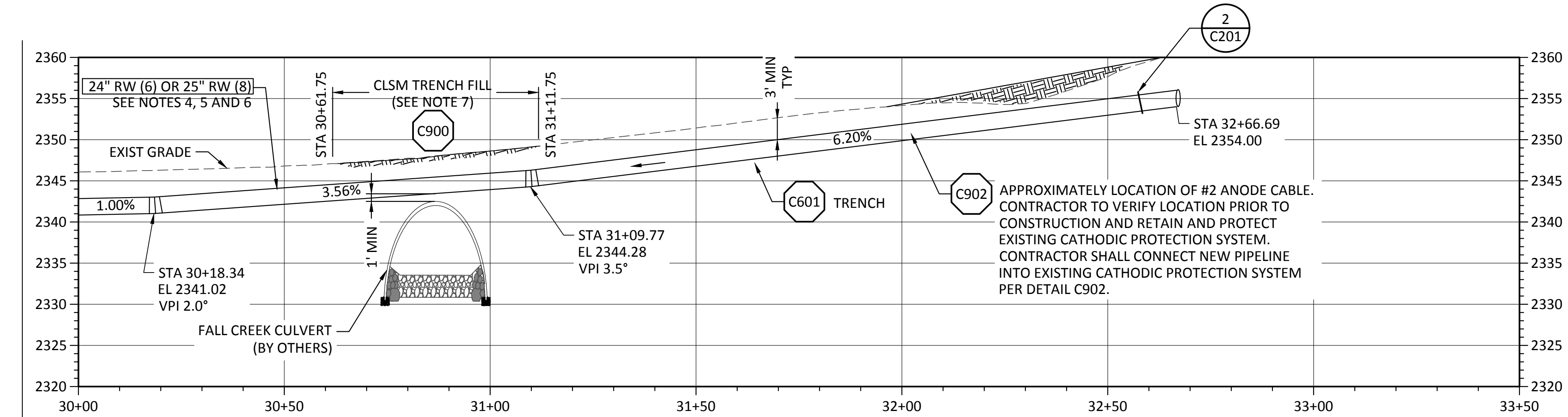
C106

JOB NO: 000000



PLAN

SCALE: 1"= 20'



PROFILE

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

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 A MINIMUM OF 3FT OF COVER OVER PIPELINE UNDER THE ROAD AND 2.5 FT MIN OUTSIDE OF ROAD.
4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, 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 REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.
7. CLSM TRENCH BACKFILL SHALL BE USED WHERE PIPE COVER UNDER ROAD IS LESS THAN 3 FT.

2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING
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MEASURE 1" THEN
DRAWING IS NOT TO SCALE.



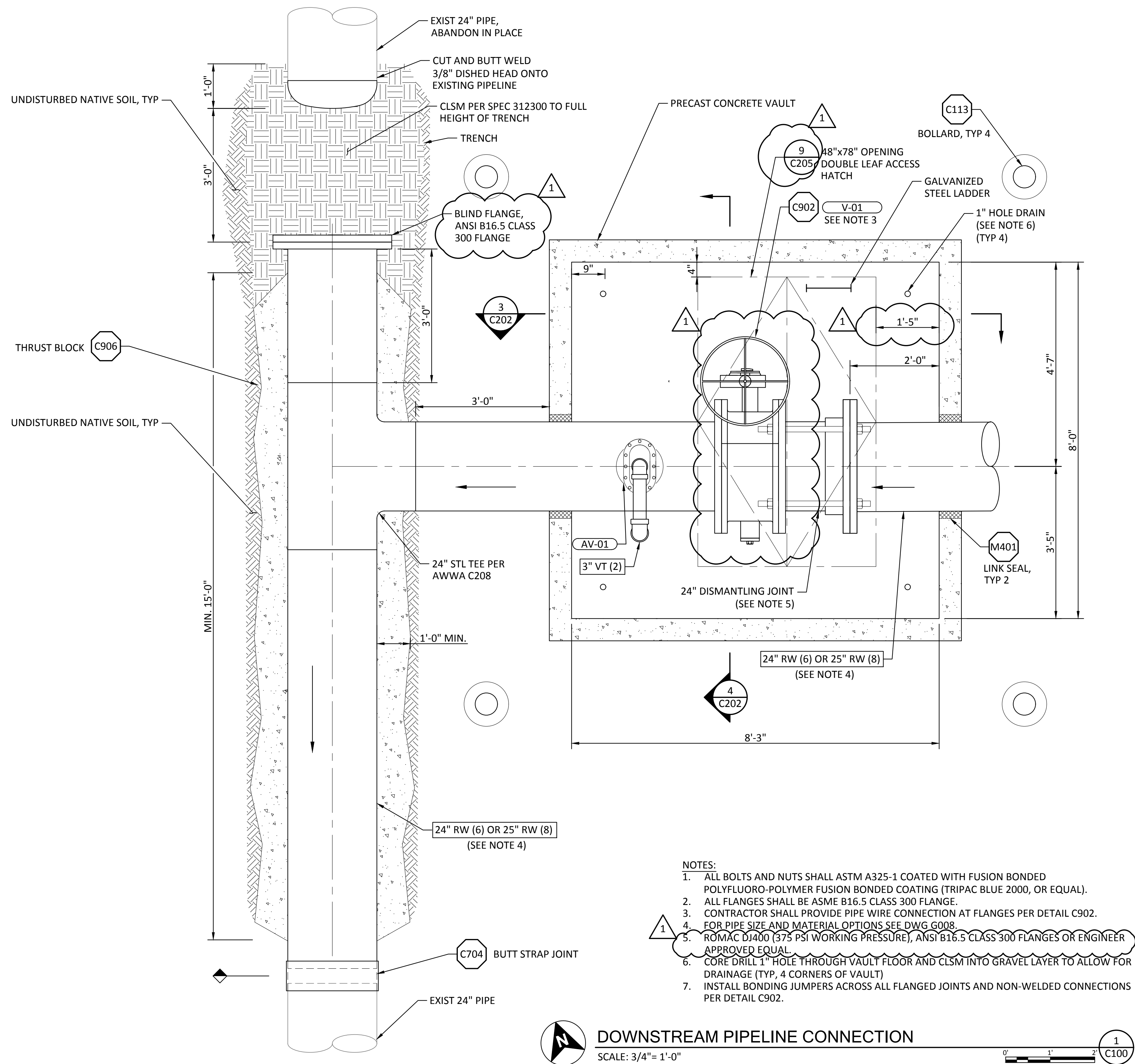
KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE

WATERLINE PLAN AND PROFILE 8

DESIGNED J. BURNS
DRAWN R. WOOD
CHECKED J. LOWY
PROJECT DATE 5/25/22

DRAWING

C107



1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING

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



KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

CIVIL SECTIONS AND DETAILS

DESIGNED J. BURNS

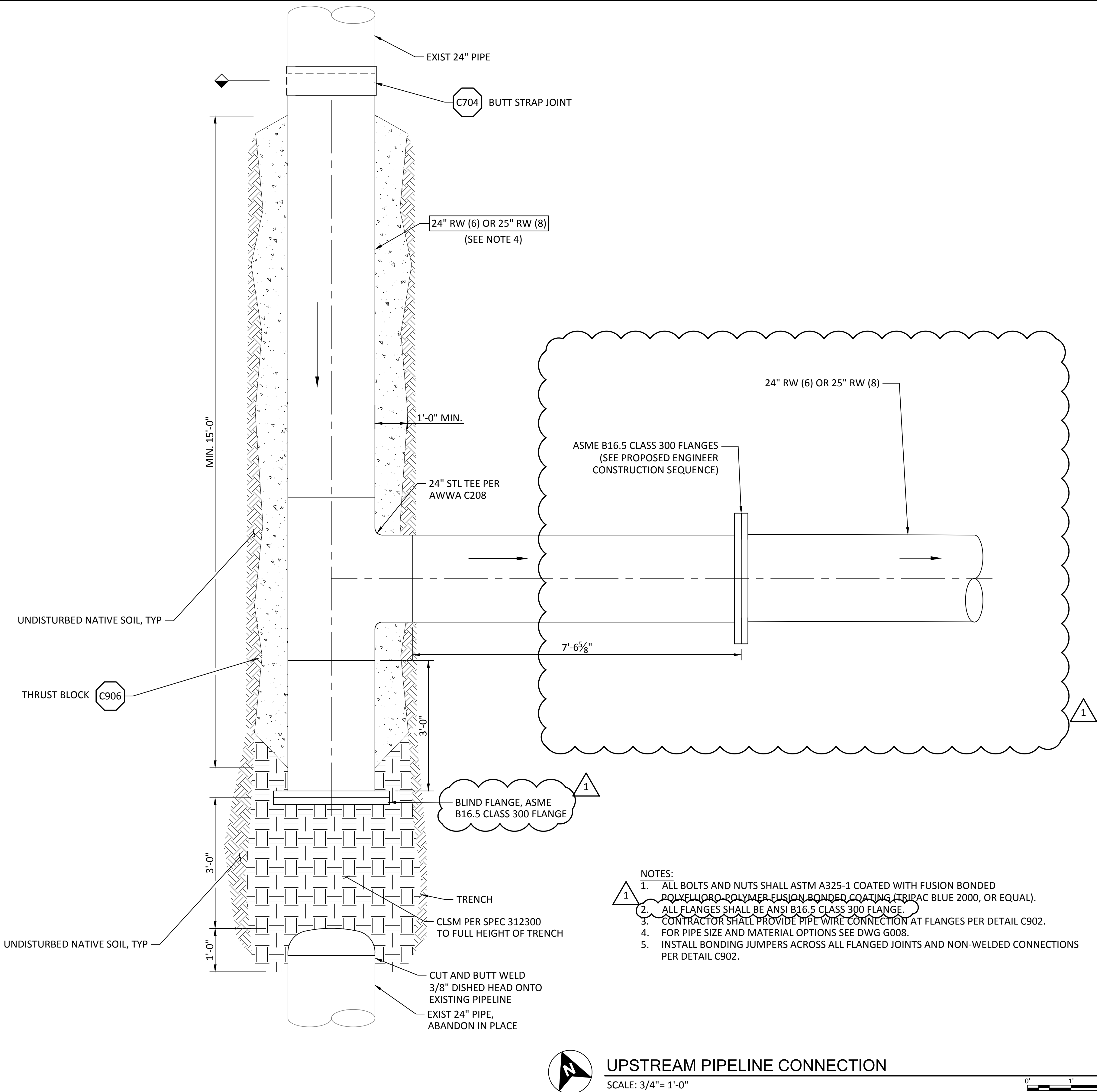
DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 5/25/22

DRAWING

C200



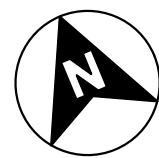
1

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.

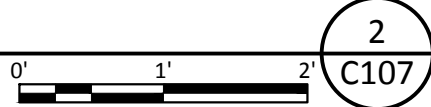
1. CONSTRUCT NEW PIPELINE DOWNSTREAM OF FLANGES.
2. FABRICATE, INSTALL AND HYDROTEST STEEL PIPE SECTION UPSTREAM OF FLANGES. INCLUDE THE PERMANENT BLIND FLANGE (SOUTH SIDE ON THIS DRAWING SHEET) AND UPSTREAM FLANGE (WITH TEMPORARY BLIND FLANGE) IN HYDROTEST.
3. CONNECT PIPE SECTION TO EXSITING PIPELINE.

- NOTES:
- 1
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.



UPSTREAM PIPELINE CONNECTION

SCALE: 3/4"= 1'-0"



1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

WARNING

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



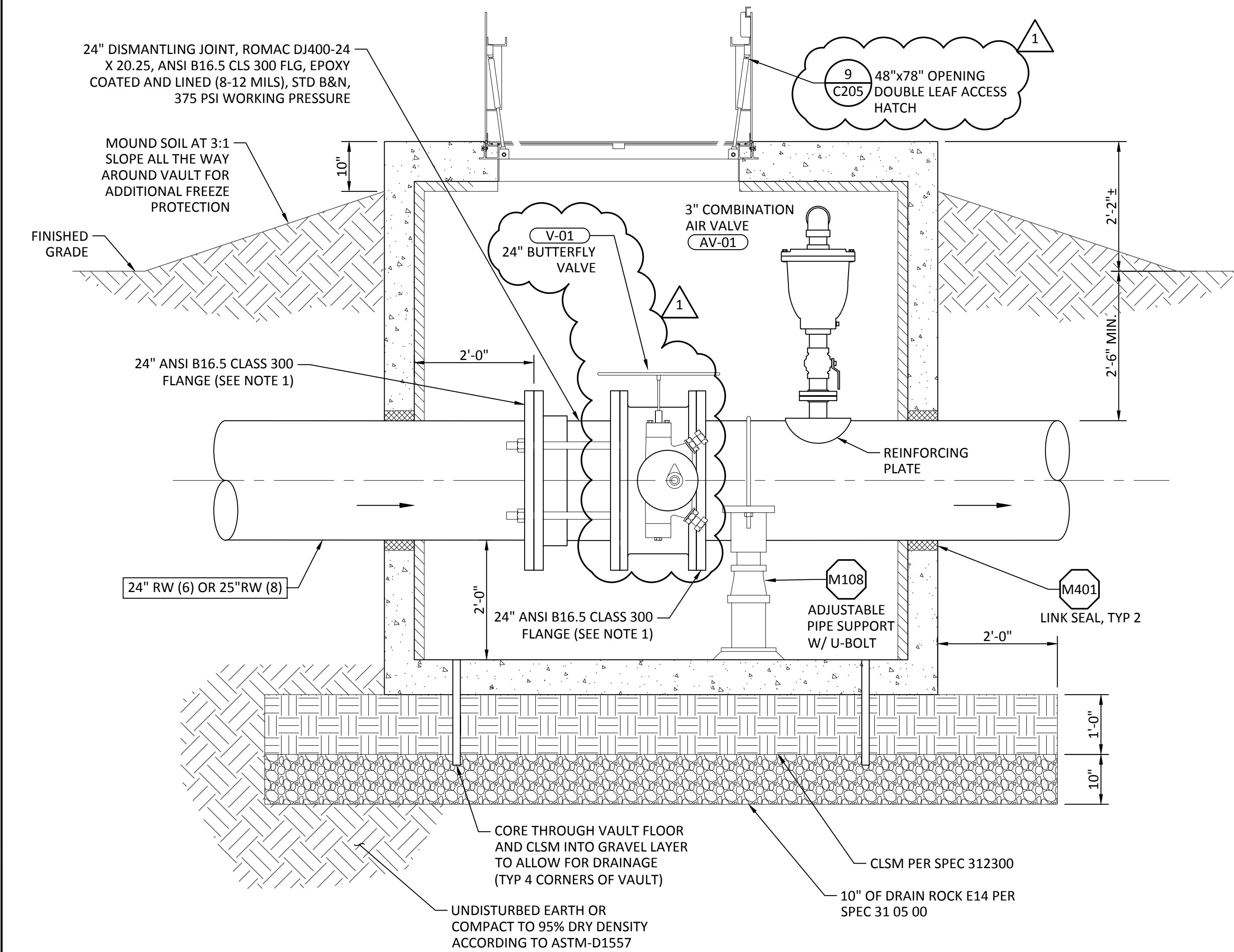
KLAMATH RIVER RENEWAL CORPORATION
CITY OF YREKA WATER LINE
CIVIL SECTIONS AND DETAILS

DESIGNED <u>J. BURNS</u>
DRAWN <u>R. WOOD</u>
CHECKED <u>J. LOWY</u>
PROJECT DATE <u>5/25/22</u>

DRAWING

C201

JOB NO: 000000

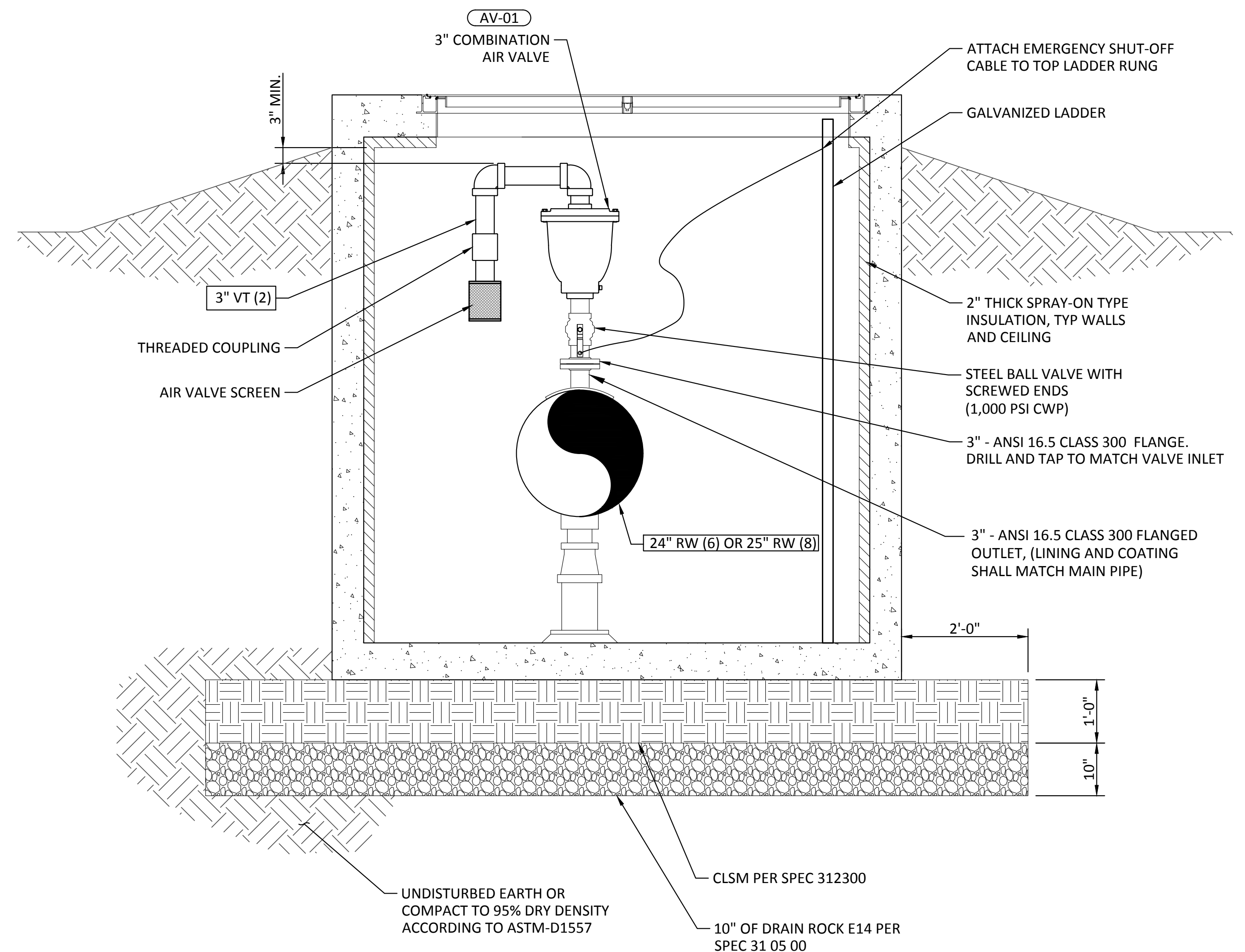
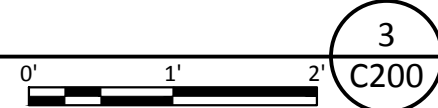


NOTES:

1. IF PIPE MATERIAL 8 (25" PIPE) IS USED, THE 24" FLANGE SHALL BE REAMED TO PROVIDE CLEARANCE FOR 25" PIPE. FLANGE SHALL BE WELDED TO THE 25" PIPE PER AWWA D 207.

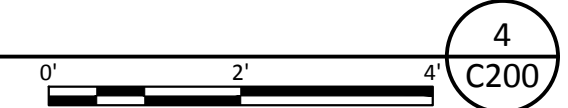
VALVE VAULT SECTION DETAIL

SCALE: 3/4" = 1'-0"



VALVE VAULT SECTION DETAIL

SCALE: 1/2" = 1'-0"



REV	DATE	BY	DESCRIPTION
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION

WARNING

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McMILLEN
JACOBS
ASSOCIATES

KLAMATH
RIVER RENEWAL
CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

CIVIL SECTIONS AND DETAILS

DESIGNED J. BURNS

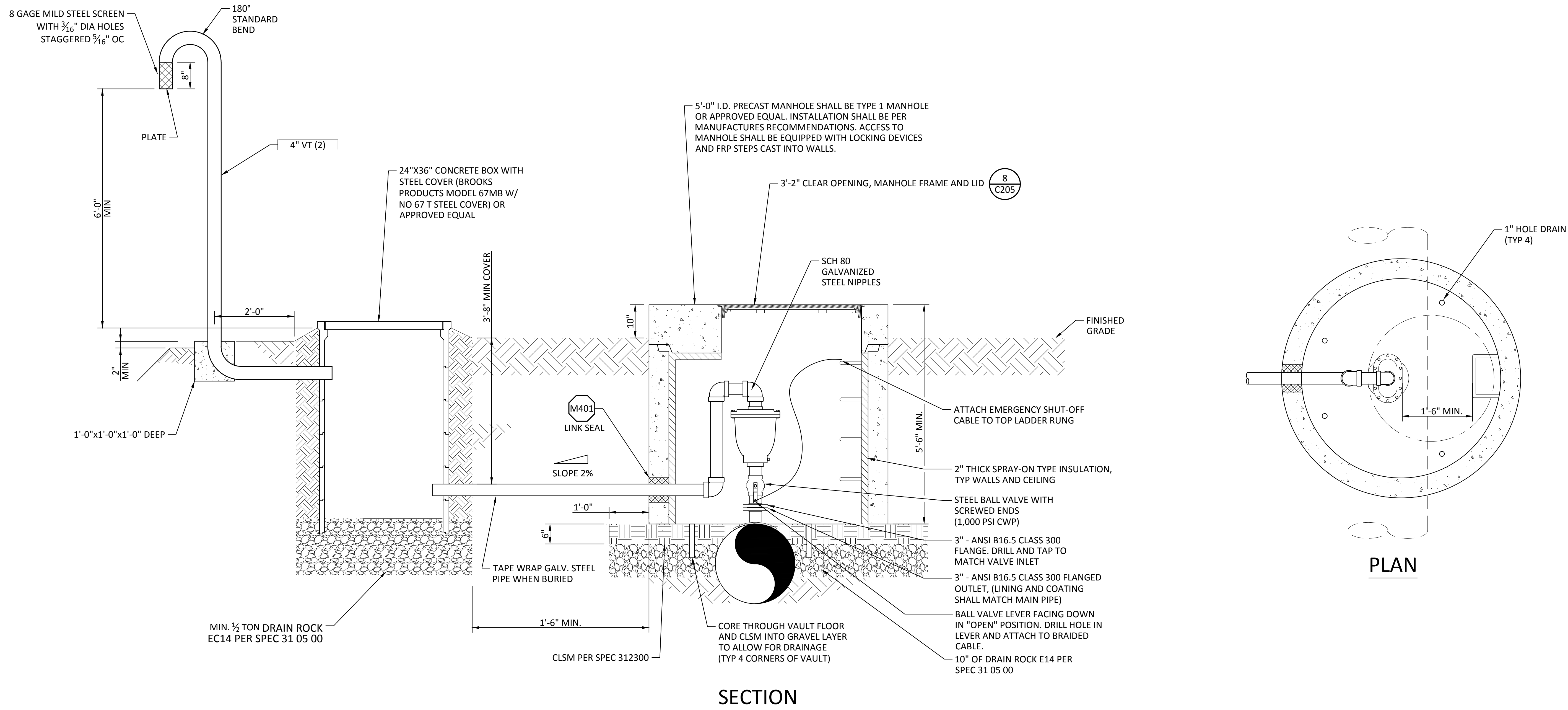
DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 5/25/22

DRAWING

C202



1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION	
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	

WARNING

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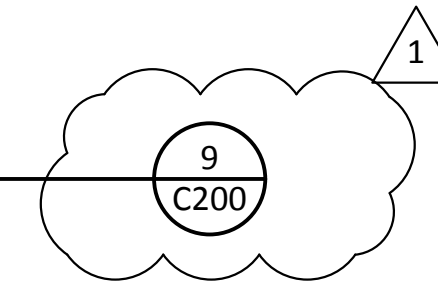
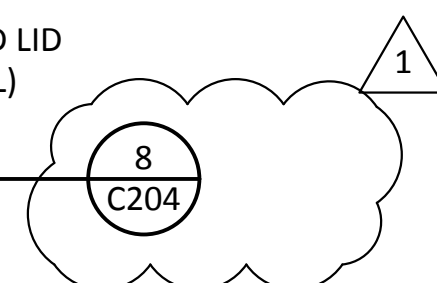
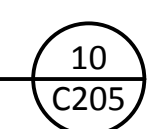


KLAMATH RIVER RENEWAL CORPORATION	
CITY OF YREKA WATER LINE	
CIVIL SECTIONS AND DETAILS	

DESIGNED	J. BURNS
DRAWN	R. WOOD
CHECKED	J. LOWY
PROJECT DATE	5/25/22

DRAWING

C204

C205