



KLAMATH RIVER RENEWAL CORPORATION  
DAGGETT BRIDGE

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VOLUME 2 - CONSTRUCTION DRAWINGS  
JUNE, 2022

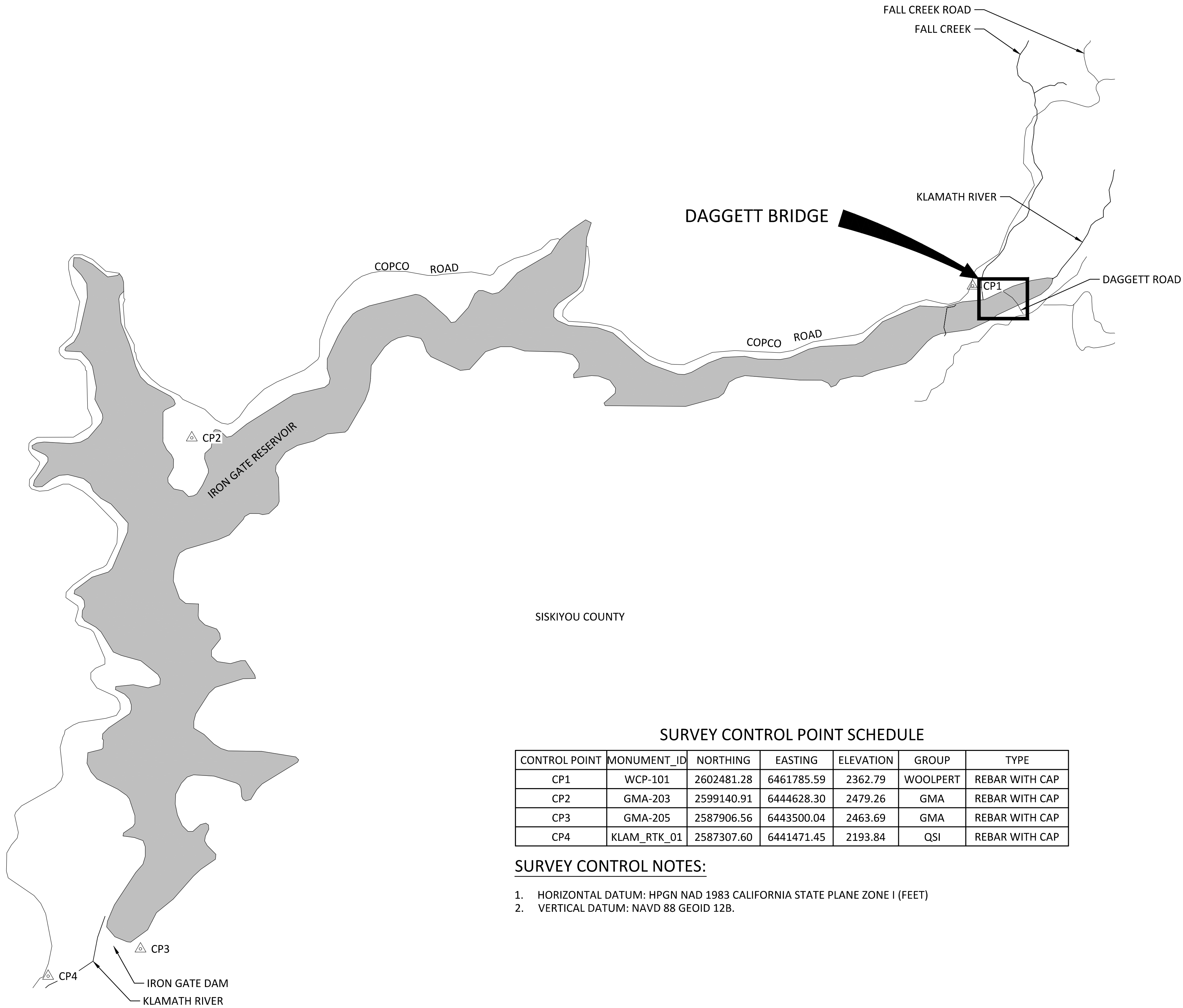
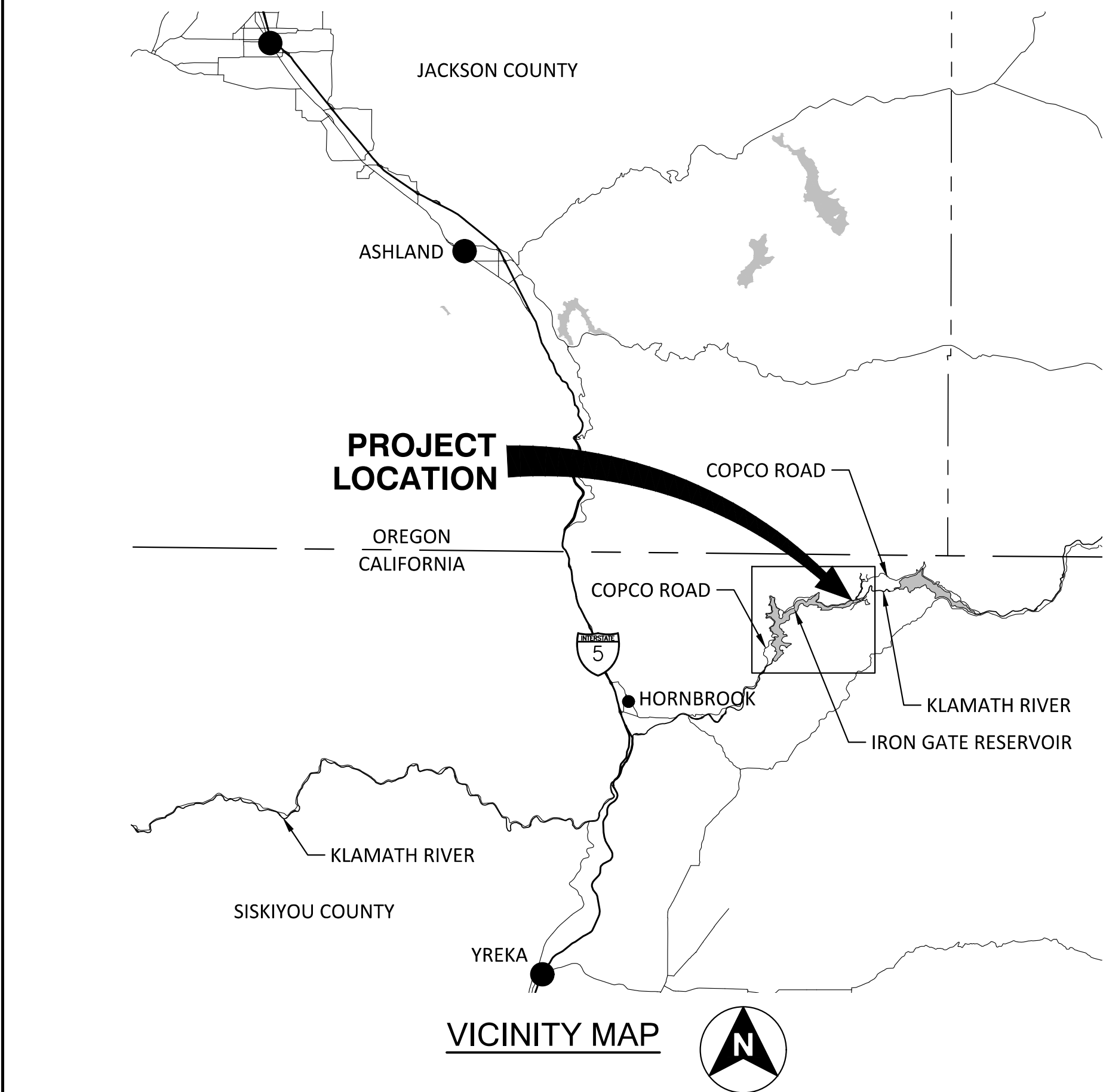
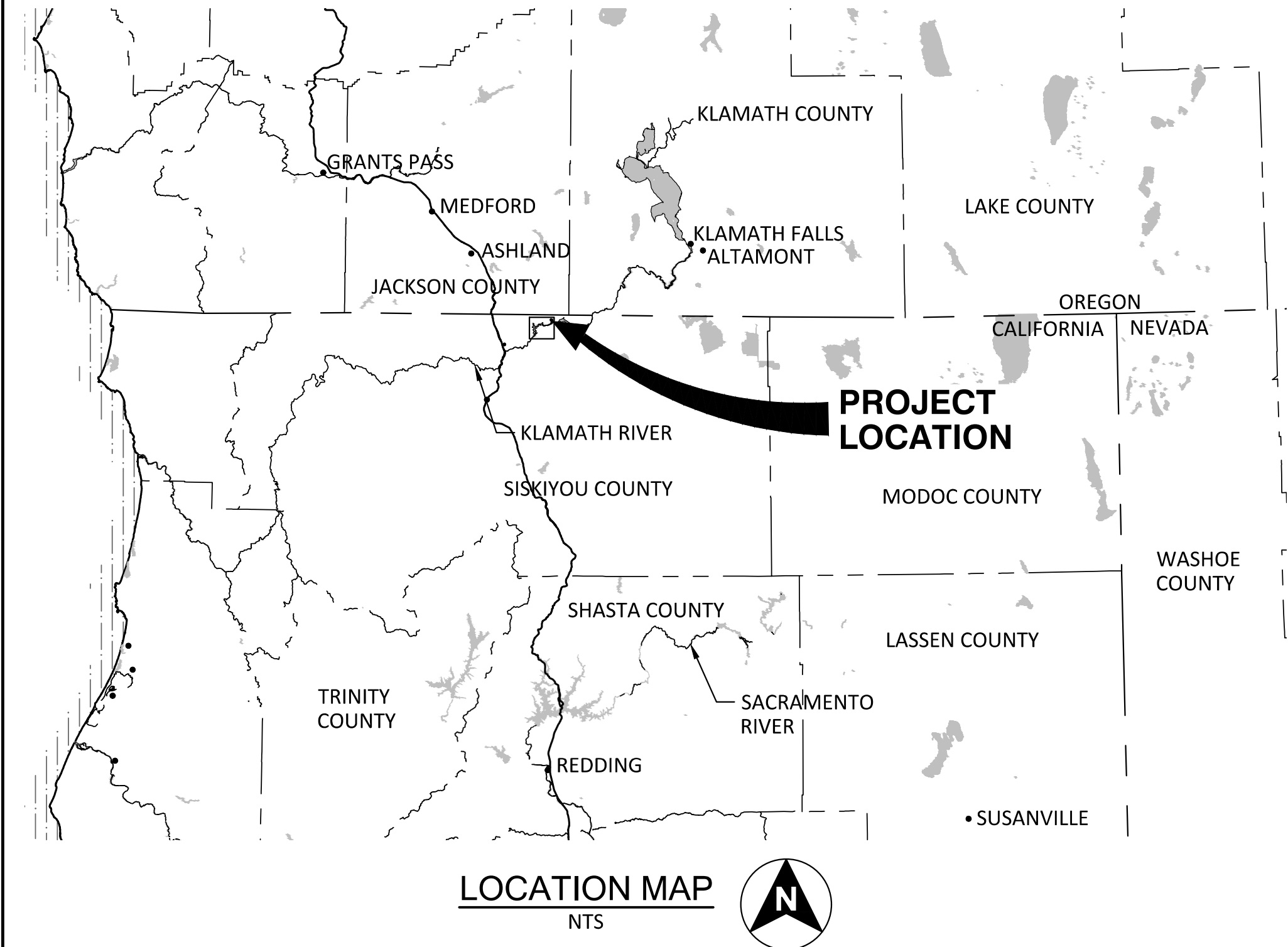
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*ISSUED FOR CONSTRUCTION*

# KLAMATH RIVER RENEWAL CORPORATION

## DAGGETT BRIDGE DESIGN PROJECT

### ISSUED FOR CONSTRUCTION



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

SURVEY CONTROL POINTS PLAN  
NTS

0	6/24/22	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		DRAWING  <b>G001</b>	
DAGGETT BRIDGE			DESIGNED <u>J. BURNS</u>
LOCATION MAP VICINITY MAP AND SURVEY CONTROL POINTS			DRAWN <u>J. CHASE</u>
			CHECKED <u>J. LOWY</u>
		PROJECT DATE <u>6/24/22</u>	



DRAWING INDEX		
DWG NO	SHEET NO.	DESCRIPTION
GENERAL		
		COVER SHEET
1	G001	LOCATION MAP, VICINITY MAP AND SURVEY CONTROL POINTS
2	G002	DRAWING INDEX
3	G003	STANDARD ABBREVIATIONS
4	G004	STANDARD SYMBOLS
5	G005	OVERALL PLAN
6	G006	CONTRACTOR STAGING AREA
EROSION AND SEDIMENT CONTROL		
7	EC100	EROSION AND SEDIMENT CONTROL PLAN
CIVIL		
8	C001	CIVIL GENERAL NOTES
9	C002	CIVIL STANDARD DETAILS
10	C100	CIVIL SITE PLAN
11	C200	PLAN AND PROFILE 1
12	C201	PLAN AND PROFILE 2
13	C202	PLAN AND PROFILE 3
14	C203	PLAN AND PROFILE 4
15	C204	PLAN AND PROFILE 5
STRUCTURAL		
16	S001	STRUCTURAL GENERAL NOTES 1
17	S002	STRUCTURAL GENERAL NOTES 2
18	S003	STRUCTURAL STANDARD DETAILS
19	S120	BRIDGE PLAN AND PROFILE
20	S121	BRIDGE ABUTMENT PLAN
21	S122	BRIDGE ABUTMENT REINFORCEMENT DETAILS
22	S123	WATERLINE SUPPORT SECTIONS AND DETAILS 1
23	S124	WATERLINE SUPPORT SECTIONS AND DETAILS 2

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WARNING  
0 1/2 1  
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KLAMATH RIVER RENEWAL CORPORATION
DAGGETT BRIDGE
DRAWING INDEX

DESIGNED <u>J. BURNS</u>
DRAWN <u>J. CHASE</u>
CHECKED <u>J. LOWY</u>
PROJECT DATE <u>6/24/22</u>

DRAWING
G002



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	INFLUENT	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	O TO O	OUT-TO-OUT	SA	SUPPLY AIR	VTR	VENT THROUGH ROOF
ALIGN	ALIGNMENT	CTR	CENTER	FL	FLOW, FLOW LINE	IRR	IRRIGATION	OA	OUTSIDE AIR, OVERALL	SAN	SANITARY	VWC	VINYL WALL COVERING
ALUM	ALUMINUM	CTRL	CONTROL	FLEX	FLEXIBLE	ISO	ISOMETRIC	OC	ON CENTER	SC	SOLID CORE		
ALT	ALTERNATE, ALTITUDE	CU	COPPER, CUBIC	FLG	FLANGE			OCPD	OVER CURRENT PROTECTION DEVICE	SCH	SCHEDULE	W/	WITH
AMB	AMBIENT	CW	CLOCKWISE	FLOR	FLUORESCENT			OH	OUTSIDE DIAMETER	SCHEM	SCHEMATIC	W/O	WITHOUT
ANC	ANCHOR	CY	CUBIC YARD	FLR	FLOOR			OH	OVERHEAD	SCRN	SCREEN	W	WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM
AP	ACCESS PANEL			FLS	FLASHING, FLUSH			OPNG	OPENING	SE	STEEL/ALUMINUM EDGE	WC	WATER CLOSET, WATER COLUMN
APRX	APPROXIMATE	d	PENNY (NAIL MEASURE)	FND	FOUNDATION			OPP	OPPOSITE	SEC	SECONDARY, SECONDS	WD	WIDTH
APVD	APPROVED ARCH ARCHITECTURAL	D	DEEP, DIFFUSER	FNC	FENCE	K	KIP	ORD	OPTIONAL	SECT	SECTION	WF	WIDE FLANGE, WASH FOUNTAIN
ASSY	ASSEMBLY	DB	DUCT BANK, DECIBEL, DRY BULB	FO	FINISHED OPENING	KB	KNEE BRACE	ORF	OVERFLOW ROOF DRAIN	SEP	SEPARATE	WG	WIRE GLASS, WATER GAGE
AT	AMP TRIP	DBA	DEFORMED BAR ANCHOR	FOB	FLAT ON BOTTOM	KCMIL	THOUSAND CIRCULAR MILS	ORIG	ORIGINAL	SF	SQUARE FOOT	WH	WALL HYDRANT, WEEP HOLE
ATM	ATMOSPHERE	DBL	DOUBLE	FOC	FACE OF CONCRETE, FACE OF CURB, FIBER	KD	KNOCK DOWN	OVFL	OVERFLOW	SH	SHOWER	WL	WATER LEVEL
AUTO	AUTOMATIC	DC	DIRECT CURRENT			KO	KNOCK OUT	OVHG	OVERHANG	SHT	SHEET	WLD	WELDED
AUX	AUXILIARY	DEG	DEGREE			KSI	KIPS PER SQUARE INCH	OZ	OUNCE	SHTG	SHEATHING	WM	WIRE MESH
AVE	AVENUE	DEG C	DEGREE CENTIGRADE			L	ANGLE, LENGTH, LAVATORY	P	PAINT, PROCESS (DWG DISCIPLINE)	SIM	SIMILAR	WP	WEATHERPROOF, WORKING POINT
AVG	AVERAGE	DEG F	DEGREE FAHRENHEIT			LAM	LAMINATE	PAR	PARALLEL, PARAPET	SL	SLOPE	WTHP	WEATHERPROOF
AWG	AMERICAN WIRE GAGE	DEMO	DEMOLITION			LATL	LATERAL	PB	PANIC BAR, PULL BOX	SLTD	SLOTTED	WS	WATERSTOP, WATER SURFACE
		DEP	DEPRESSED			LB	LAG BOLT, POUND	PBD	PARTICLE BOARD	SNLS	SEAMLESS	WSEL	WATER SURFACE ELEVATION
B/B	BACK TO BACK	DEPT	DEPARTMENT			LDR	LEADER	PC	POINT OF CURVE, PIECE, PRECAST	SOG	SLAB ON GRADE	WT	WEIGHT, WATER TIGHT
BAL	BALANCE	DI	DROP INLET, DUCTILE IRON			LF	LINEAR FOOT	PCC	POINT OF COMPOUND CURVATURE	SP	SOUNDPROOF, STANDPIPE	WWF	WELDED WIRE FABRIC
BBD	BULLETIN BOARD	DIA	DIAGONAL, DIAGRAM			LG	LONG	PCF	POUNDS PER CUBIC FOOT	SPC	SPACING		
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	DIFF	DIFFERENTIAL, DIFFERENCE</										

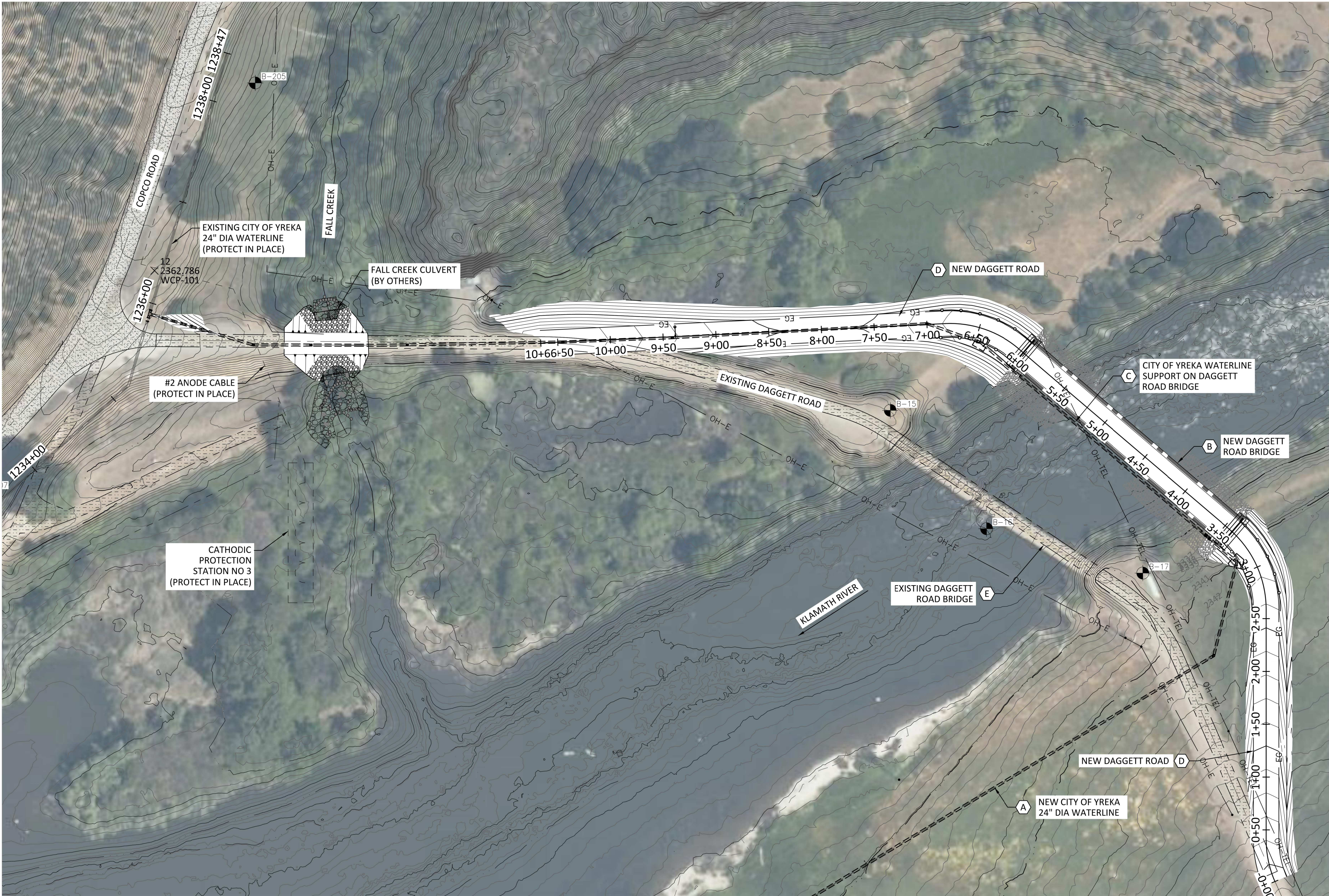
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SHEET SYMBOLS		SITE PLAN LINE TYPES		SITE PLAN SYMBOLS		MISCELLANEOUS SYMBOLS		HATCH SYMBOLS			
<div>PLAN</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div> <div></div>				<div></div> <div>ARROW INDICATES DIRECTION OF PLAN NORTH</div> <div></div> <div>CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.</div> <div></div> <div>DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.</div> <div></div> <div>MANHOLE</div> <div></div> <div>ELECTRIC BOX</div> <div></div> <div>STORM DRAIN MANHOLE</div> <div></div> <div>FIRE HYDRANT</div> <div></div> <div>YARD HYDRANT</div> <div></div> <div>SURVEY CONTROL POINT, AS NOTED.</div> <div></div> <div>POLE ANCHOR</div> <div></div> <div>POWER POLE</div> <div></div> <div>LIGHT POLE</div> <div></div> <div>SIGN</div> <div></div> <div>SURVEY HUB</div> <div></div> <div>SECTION CORNER</div> <div></div> <div>BENCH MARK</div> <div></div> <div>EXISTING HEADWALL</div> <div></div> <div>EXISTING MONITORING STATION</div> <div></div> <div>EXISTING FENCE</div> <div></div> <div>STATE PLANE COORDINATE MARKER</div> <div></div> <div>EXISTING TREE LINE</div> <div></div> <div>EXISTING BUILDING, STRUCTURES</div> <div></div> <div>EXISTING SECTION CORNER MONUMENT FOUND AS DESCRIBED</div> <div></div> <div>EXISTING 5/8" REBAR CONTROL POINT MONUMENT, BORING LOCATION</div> <div></div> <div>EXISTING HOSE BIB</div> <div></div> <div>EXISTING PORTABLE IRRIGATION WATER PUMP</div> <div></div> <div>EXISTING 6" WATER WELL</div> <div></div> <div>EXISTING ELECTRICAL OUTLET</div> <div></div> <div>EXISTING POWER POLE</div> <div></div> <div>EXISTING TELEPHONE PEDESTAL</div> <div></div> <div>CONTROL POINT</div> <div></div> <div>PUMP</div> <div></div> <div>PUMP</div> <div></div> <div>TEST PIT LOCATION</div>		<div></div> <div>CHANGE OF PIPE MTL</div> <div></div> <div>OR</div> <div>END OF PIPE</div> <div></div> <div>CENTERLINE</div> <div></div> <div>DIAMETER</div> <div></div> <div>ANGLE</div> <div></div> <div>PLATE</div> <div></div> <div>PLUS/MINUS</div>		<div>ARCHITECTURAL SYMBOLS</div> <div></div> <div>ELEVATION IDENTIFICATION</div> <div></div> <div>ROOM IDENTIFICATION</div> <div></div> <div>KEYNOTE (NUMBER)</div> <div></div> <div>WINDOW IDENTIFICATION</div> <div></div> <div>TYPE NUMBER ASSEMBLY TAG (WALL, FLOOR, ROOF)</div> <div>MECHANICAL SYMBOLS</div> <div></div> <div>VALVE IDENTIFICATION</div>		<div>ROCK, TYPE AS NOTED (PLAN/SECTION)</div> <div>BED ROCK</div> <div>EXISTING GRADE (SECTION)</div> <div>NEW SOIL (SECTION)</div> <div>CONCRETE (SECTION/PLAN)</div> <div>SAND, GROUT (PLAN/SECTION)</div> <div>STEEL (SECTION)</div> <div>GRATING (PLAN)</div> <div>MASONRY (PLAN)</div> <div>WOOD, SIZE/TYPE AS NOTED (PLAN)</div> <div>WOOD, SIZE/TYPE AS NOTED (SECTION)</div> <div>RIP RAP (PLAN/SECTION)</div> <div>RIGID INSULATION (SECTION)</div> <div>ASPHALT CONCRETE PAVEMENT SURFACE (PLAN/SECTION)</div> <div>GRASS/VEGETATION (PLAN)</div> <div>BATT INSULATION (SECTION)</div> <div>NEW CONSTRUCTION</div> <div>EXISTING</div> <div>EXISTING TO BE REMOVED OR DEMOLISHED</div> <div>CLEARING AND GRUBBING</div> <div>ASPHALT</div> <div>GRASS/VEGETATION</div> <div>GRAVEL</div>	
<div>SECTION IDENTIFICATION</div> <div>(1) SECTION CUT ON DRAWING C102:</div> <div></div> <div>(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:</div> <div></div> <div>SECTION VIEW</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div> <div>DETAIL IDENTIFICATION</div> <div>(1) DETAIL CALL-OUT ON DRAWING C102:</div> <div></div> <div>(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:</div> <div></div> <div>DETAIL</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div> <div>*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING. DRAWING NUMBER IS REPLACED BY A LINE.</div> <div>STANDARD DETAIL IDENTIFICATION</div> <div>(1) DETAIL CALL-OUT ON PLAN OR SECTION:</div> <div></div> <div>(2) ON DETAIL DRAWINGS, IDENTIFIED AS:</div> <div></div> <div>DETAIL</div> <div></div> <div>ELEVATION/IMAGE IDENTIFICATION</div> <div></div>		<div>X X</div> <div>FENCE LINE</div> <div>P P</div> <div>OVERHEAD POWER</div> <div>455</div> <div>MAJOR CONTOUR</div> <div>456</div> <div>MINOR CONTOUR</div> <div>...</div> <div>EDGE OF WATERLINE</div> <div>TOE</div> <div>TOE OF SLOPE</div> <div>TOB</div> <div>TOP OF BANK</div> <div>SS SS</div> <div>SANITARY SEWER</div> <div>SD SD</div> <div>STORM DRAIN</div> <div>EP EP</div> <div>EDGE OF PAVEMENT</div> <div>EG EG</div> <div>EDGE OF GRAVEL</div> <div>W</div> <div>WATTLE</div> <div>CF CF</div> <div>CONSTRUCTION FENCE</div> <div>GAS</div> <div>GAS LINE</div> <div>IRR IRR</div> <div>IRRIGATION LINE</div> <div>WTR</div> <div>WATER LINE</div> <div>TEL</div> <div>TELEPHONE LINE</div> <div>COM</div> <div>COMMUNICATION LINE</div> <div>OHP</div> <div>OVERHEAD ELECTRICAL/POWER</div> <div>EUG</div> <div>UNDERGROUND ELECTRICAL</div> <div>P/L</div> <div>PROPERTY LINE</div> <div>OHP</div> <div>EXISTING OVERHEAD POWER LINE</div> <div>OHP&amp;T</div> <div>EXISTING OVERHEAD POWER &amp; TELEPHONE LINE</div> <div>T</div> <div>EXISTING OVERHEAD TELEPHONE LINE</div> <div>BT</div> <div>EXISTING BURIED TELEPHONE LINE EVIDENCED BY PEDESTALS &amp; WARNING PADDLES</div> <div>X X X X X</div> <div>EXISTING FENCE LINE</div> <div>- - -</div> <div>PROJECT BOUNDARY</div> <div>o o o o</div> <div>GUARD RAIL</div> <div>TC</div> <div>TURBIDITY CURTAIN</div>		<div>GENERAL NOTES:</div> <div>1. ALL SYMBOLS ARE NOT NECESSARILY USED. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLS ON THIS PROJECT.</div> <div>2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.</div>							

								<div>WARNING</div> <div>0 1/2 1</div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</div>											
				KLAMATH RIVER RENEWAL CORPORATION				DESIGNED <u>J. BURNS</u>				DRAWING							
				DAGGETT BRIDGE				DRAWN <u>J. CHASE</u>											
				STANDARD SYMBOLS				CHECKED <u>J. LOWY</u>											
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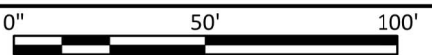




- SHEET NOTES:**
1. LIDAR SURVEY PROVIDED BY KRRC ON NOVEMBER 2020, CONTRACTOR SHALL CONFIRM AND VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.
  2. THE HORIZONTAL DATUM FOR THE PROJECT IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
  3. THE VERTICAL DATUM FOR THE PROJECT IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, GEOID 12B).

- MAJOR CONSTRUCTION ITEMS:**
- A NEW CITY OF YREKA WATERLINE. NOT IN THIS PACKAGE.
  - B CONSTRUCT NEW DAGGETT ROAD BRIDGE.
  - C SUPPORT THE CITY OF YREKA WATERLINE ALONG THE NEW DAGGETT ROAD BRIDGE.
  - D CONSTRUCT NEW DAGGETT ROAD TO NEW BRIDGE
  - E ABANDON DAGGETT BRIDGE IN PLACE. RETAIN AND PROTECT EXISTING BRIDGE.

**OVERALL PLAN**  
SCALE: 1"= 50'



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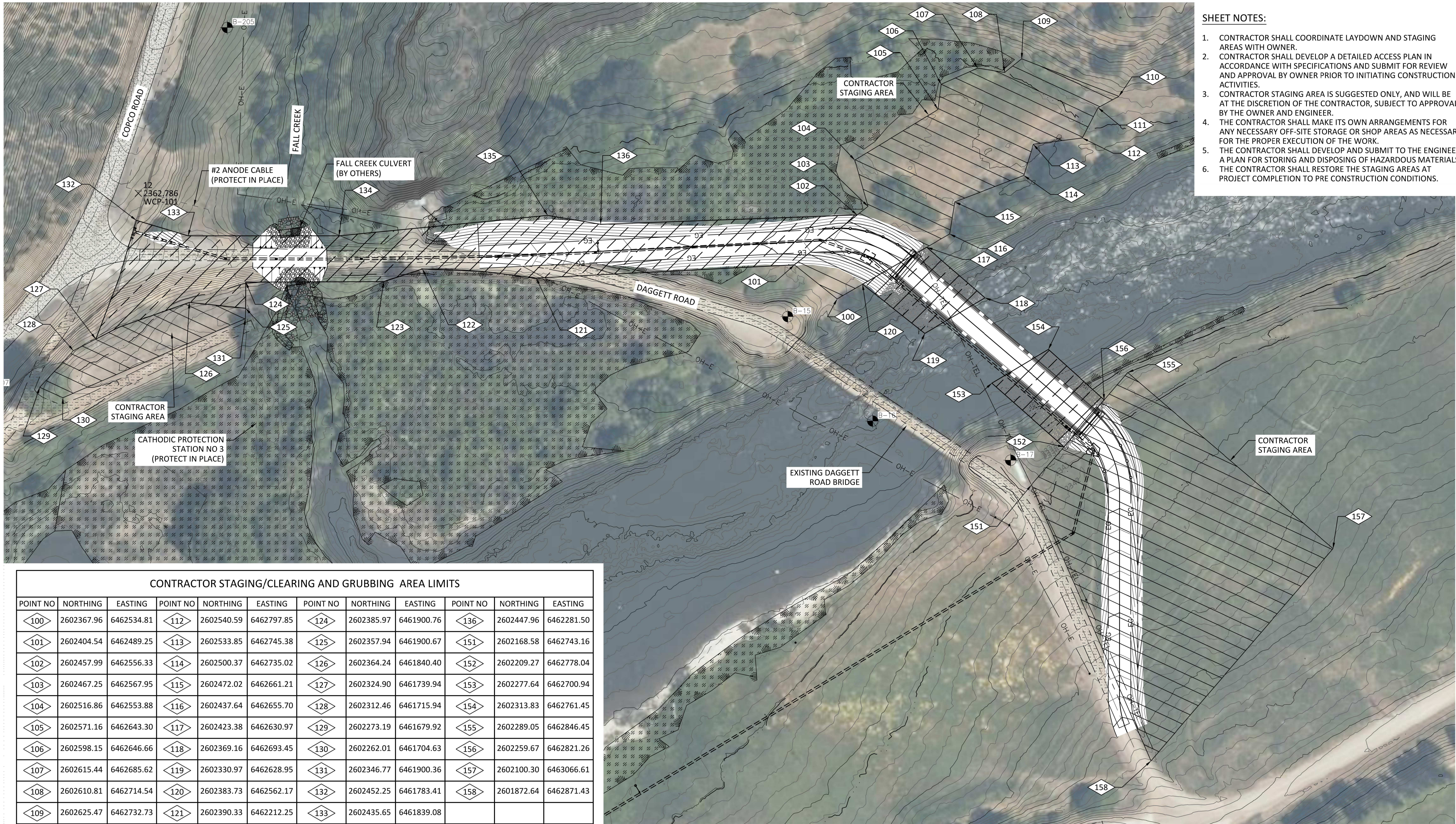


KLAMATH RIVER RENEWAL CORPORATION	
DAGGETT BRIDGE	
OVERALL PLAN	

DESIGNED	J. BURNS
DRAWN	J. CHASE
CHECKED	J. LOWY
PROJECT DATE	6/24/22

DRAWING
G005



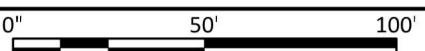


- SHEET NOTES:**
1. CONTRACTOR SHALL COORDINATE LAYDOWN AND STAGING AREAS WITH OWNER.
  2. CONTRACTOR SHALL DEVELOP A DETAILED ACCESS PLAN IN ACCORDANCE WITH SPECIFICATIONS AND SUBMIT FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
  3. CONTRACTOR STAGING AREA IS SUGGESTED ONLY, AND WILL BE AT THE DISCRETION OF THE CONTRACTOR, SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
  4. THE CONTRACTOR SHALL MAKE ITS OWN ARRANGEMENTS FOR ANY NECESSARY OFF-SITE STORAGE OR SHOP AREAS AS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
  5. THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER A PLAN FOR STORING AND DISPOSING OF HAZARDOUS MATERIALS.
  6. THE CONTRACTOR SHALL RESTORE THE STAGING AREAS AT PROJECT COMPLETION TO PRE CONSTRUCTION CONDITIONS.

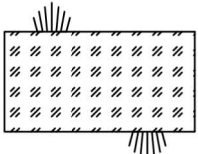
CONTRACTOR STAGING/CLEARING AND GRUBBING AREA LIMITS											
POINT NO	NORTHING	EASTING	POINT NO	NORTHING	EASTING	POINT NO	NORTHING	EASTING	POINT NO	NORTHING	EASTING
100	2602367.96	6462534.81	112	2602540.59	6462797.85	124	2602385.97	6461900.76	136	2602447.96	6462281.50
101	2602404.54	6462489.25	113	2602533.85	6462745.38	125	2602357.94	6461900.67	151	2602168.58	6462743.16
102	2602457.99	6462556.33	114	2602500.37	6462735.02	126	2602364.24	6461840.40	152	2602209.27	6462778.04
103	2602467.25	6462567.95	115	2602472.02	6462661.21	127	2602324.90	6461739.94	153	2602277.64	6462700.94
104	2602516.86	6462553.88	116	2602437.64	6462655.70	128	2602312.46	6461715.94	154	2602313.83	6462761.45
105	2602571.16	6462643.30	117	2602423.38	6462630.97	129	2602273.19	6461679.92	155	2602289.05	6462846.45
106	2602598.15	6462646.66	118	2602369.16	6462693.45	130	2602262.01	6461704.63	156	2602259.67	6462821.26
107	2602615.44	6462685.62	119	2602330.97	6462628.95	131	2602346.77	6461900.36	157	2602100.30	6463066.61
108	2602610.81	6462714.54	120	2602383.73	6462562.17	132	2602452.25	6461783.41	158	2601872.64	6462871.43
109	2602625.47	6462732.73	121	2602390.33	6462212.25	133	2602435.65	6461839.08			
110	2602585.24	6462837.04	122	2602400.09	6462090.32	134	2602435.65	6462000.81			
111	2602573.03	6462814.70	123	2602386.51	6462048.87	135	2602457.59	6462224.47			

CONTRACTOR STAGING AREA PLAN

SCALE: 1"= 50'



ENVIRONMENTAL  
FEATURES



CLEARING &  
GRUBBING



CONTRACTOR  
STAGING



REV	DATE	BY	DESCRIPTION
0	6/24/22	JAL	ISSUED FOR CONSTRUCTION



WARNING  
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IF THIS BAR DOES NOT  
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KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

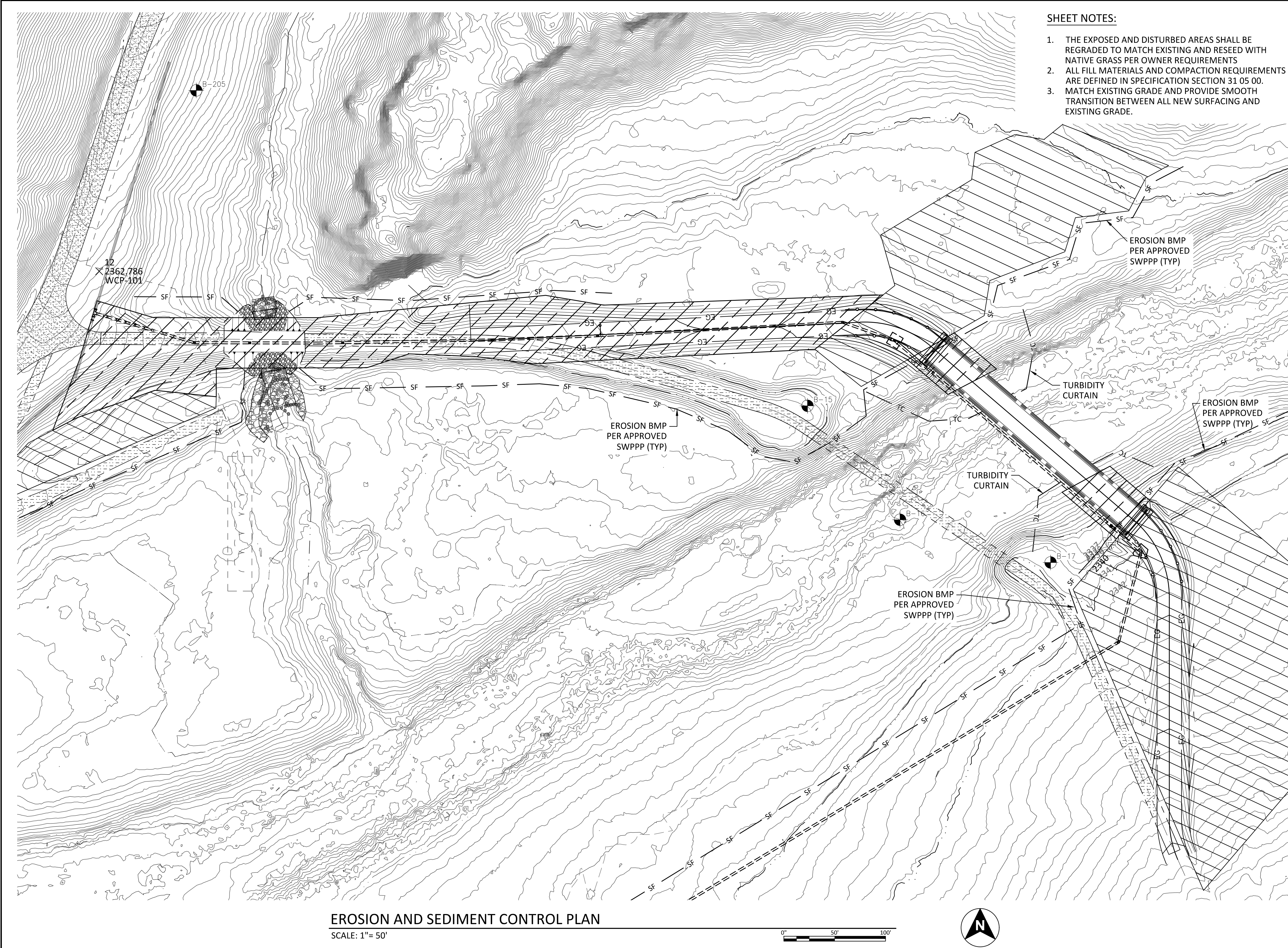
CONTRACTOR STAGING AREA

DESIGNED J. BURNS  
DRAWN J. CHASE  
CHECKED J. LOWY  
PROJECT DATE 6/24/22

DRAWING

G006





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 05 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 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 SPECIFICATION SECTION 31 25 00 EROSION SEDIMENTATION CONTROLS PREPARED BY KIGHT PIESOLD CONSULTING.

GRADING AND FINAL STABILIZATION:

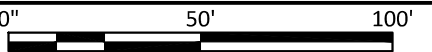
1. CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN CLEARING LIMITS AND SHALL MEET THE REQUIREMENTS OF SPECIFICATION 31 25 00. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. PRESERVE EXIST VEGETATION BEYOND DISTURBED AREA - UTILIZE AS NATURAL BUFFER STRIPS.
2. 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.
3. CONTRACTOR SHALL REGRADE DISTURBED SLOPED TO NEAR EXIST CONDITION AS APPROVED BY THE OWNER.
4. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH NATIVE VEGETATION, AS REQUIRED (BY OTHERS).

BMP MEASURES:

1. CONTRACTOR SHALL FOLLOW EROSION CONTROL PLAN AS DRAFTED.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
3. CONTRACTOR SHALL INSTALL BMP MEASURES 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 WATER TRUCK EQUIPMENT TO FACILITATE DUST ABATEMENT AND CONTROL.
6. STOCKPILED EXCAVATION MATERIALS SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE. NON-ACTIVE STOCKPILES 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, AS REQUIRED (BY OTHERS).
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"= 50'



0	6/24/22	JAL	ISSUED FOR CONSTRUCTION
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KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED J. BURNS  
DRAWN J. CHASE  
CHECKED J. LOWY  
PROJECT DATE 6/24/22

DRAWING

EC100



GENERAL PROJECT NOTES:

1. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN UNSCREENED AND HEAVY-LINED.
2. 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.
3. VERTICAL DATUM BASED UPON NAVD 88 DATUM, GEOID 12B.
4. HORIZONTAL DATUM BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
5. 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.
6. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
7. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
8. 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.
9. CONTRACTOR SHALL CONTACT KRRC A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES TO REQUEST VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
10. 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:

1. CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE (OR AN ON-SITE MEETING) WITH THE PROJECT REPRESENTATIVE PRIOR TO THE START OF WORK.
2. 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.
3. 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.
4. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
5. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.

GENERAL YARD PIPING AND UTILITIES NOTES:

1. 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.
2. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN UNSCREENED AND HEAVY-LINED.
3. ALL PIPES SHALL HAVE CONSTANT UNIFORM SLOPE.
4. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (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.
5. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES, UTILITIES, BUILDINGS AND FOUNDATIONS IMPACTED BY CONSTRUCTION.
6. ALL VALVES SET FLUSH WITH GRADE SHALL HAVE BOXES AND COLLARS.

DAGGETT BRIDGE ROAD			
ALIGNMENT STATION AND CURVE TABLE			
CURVE POINT DATA			
DESCRIPTION	STATION	NORTHING	EASTING
PC:	0+00.00	2601903.05	6462846.00
RP:		2601942.81	6462937.75
PT:	0+40.89	2601942.81	6462837.75
CIRCULAR CURVE DATA			
PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	23° 25' 59.0996"	TYPE:	RIGHT
RADIUS:	100.00		
LENGTH:	40.90	TANGENT:	20.74
MID-ORD:	2.08	EXTERNAL:	2.13
CHORD:	40.61	COURSE:	N 11° 42' 59.5498" W
TANGENT DATA			
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	0+40.89	2601942.81	6462837.75
END:	2+58.74	2602160.66	6462837.75
TANGENT DATA			
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	217.84	COURSE:	N 00° 00' 00.0000" E
CURVE POINT DATA			
DESCRIPTION	STATION	NORTHING	EASTING
PC:	2+58.74	2602160.66	6462837.75
RP:		2602160.66	6462737.75
PT:	3+44.99	2602236.60	6462802.81
CIRCULAR CURVE DATA			
PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	49° 24' 58.1423"	TYPE:	LEFT
RADIUS:	100.00		
LENGTH:	86.25	TANGENT:	46.01
MID-ORD:	9.16	EXTERNAL:	10.08
CHORD:	83.60	COURSE:	N 24° 42' 29.0712" W
TANGENT DATA			
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	3+44.99	2602236.60	6462802.81
END:	6+07.26	2602407.23	6462603.62
TANGENT DATA			
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	262.28	COURSE:	N 49° 24' 58.1423" W
CURVE POINT DATA			
DESCRIPTION	STATION	NORTHING	EASTING
PC:	6+07.26	2602407.23	6462603.62
RP:		2602331.28	6462538.56
PT:	6+82.90	2602431.17	6462533.75
CIRCULAR CURVE DATA			
PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	43° 20' 25.9242"	TYPE:	LEFT
RADIUS:	100.00		
LENGTH:	75.64	TANGENT:	39.73
MID-ORD:	7.07	EXTERNAL:	7.61
CHORD:	73.85	COURSE:	N 71° 05' 11.1044" W
TANGENT DATA			
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	6+82.90	2602431.17	6462533.75
END:	10+65.98	2602412.75	6462151.12
TANGENT DATA			
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	383.07	COURSE:	S 87° 14' 36.5213" W

0	6/24/22	JAL	ISSUED FOR CONSTRUCTION
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WARNING

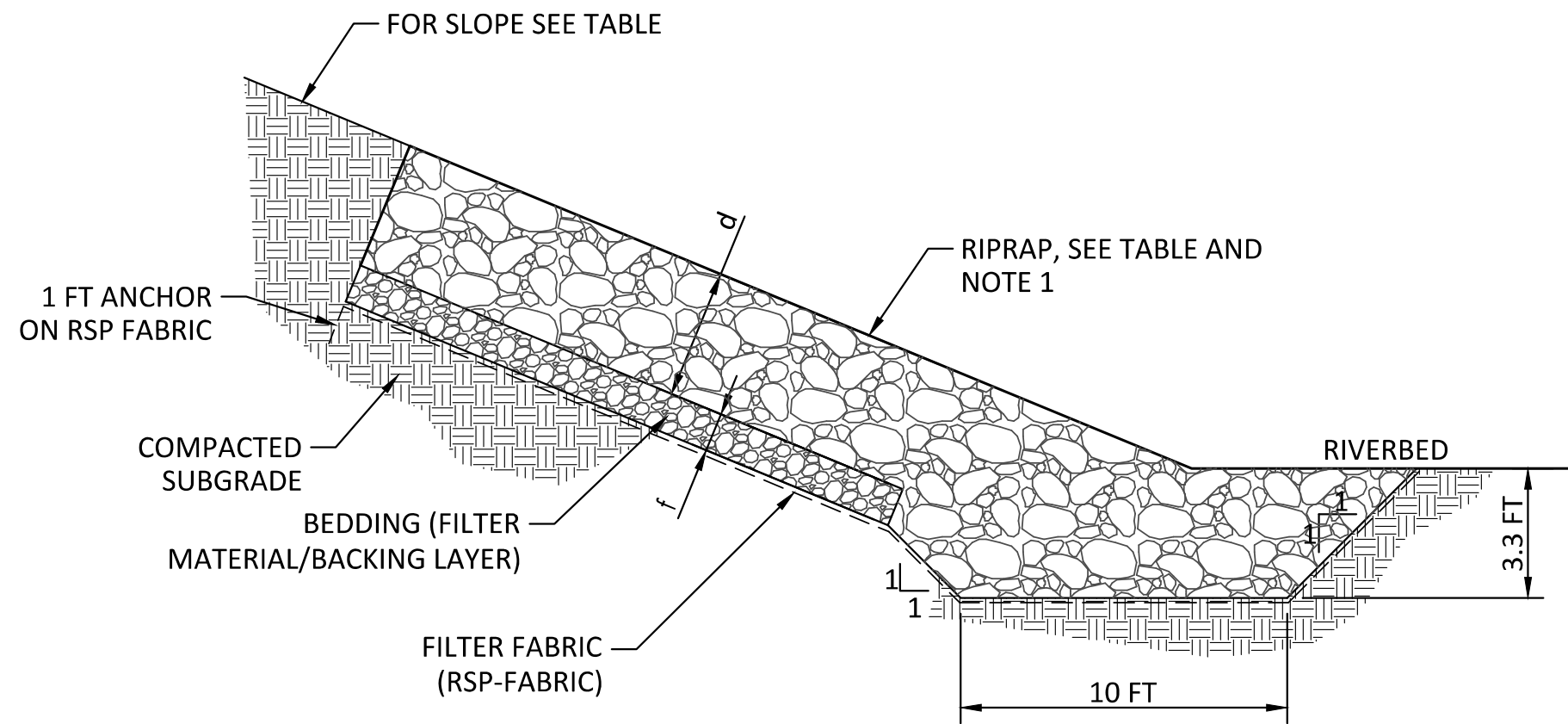
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KLAMATH RIVER RENEWAL CORPORATION		DRAWING  <b>C001</b>	
DAGGETT BRIDGE			DESIGNED <u>J. BURNS</u>
CIVIL GENERAL NOTES			DRAWN <u>J. CHASE</u>
			CHECKED <u>J. LOWY</u>
		PROJECT DATE <u>6/24/22</u>	





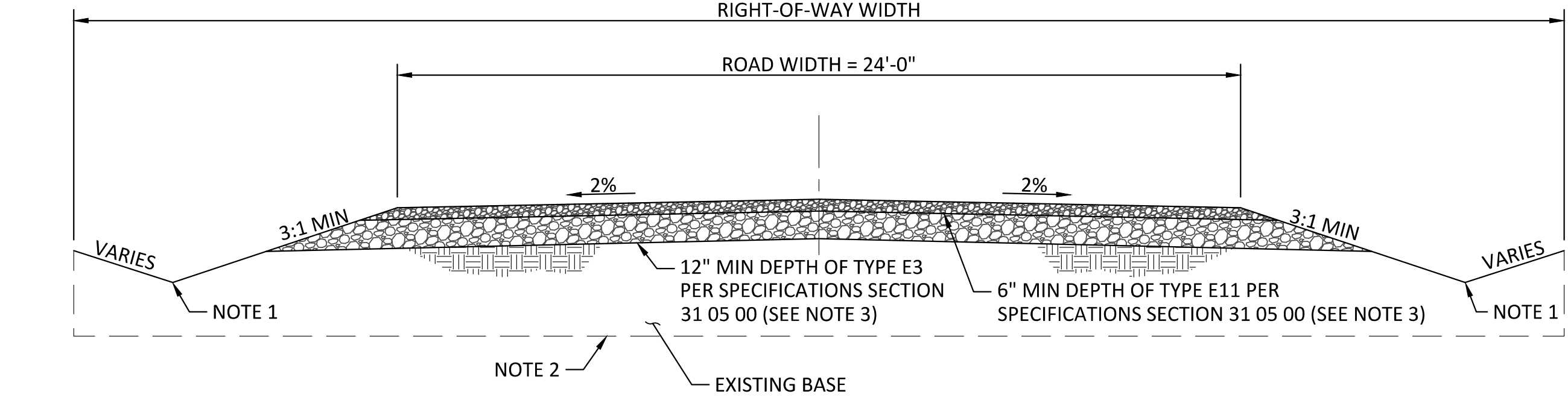
NOTES:  
1. THE INDIVIDUAL CLASSES OF ROCKS USED IN ROCK SLOPE PROTECTION (RSP) SHALL CONFORM TO THE SIZE TYPES AS SPECIFIED IN CALTRANS SPECIFICATINOS SECTION 72-2 ROCK SLOPE PROTECTION, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, OR AS SHOWN ON THE PLANS.

DESCRIPTION	EAST ABUTMENT	WEST ABUTMENT
SLOPE ANGLE	15 DEG	28 DEG
OUTSIDE LAYER <sup>A</sup> , RSP-CLASS	E7B	E7B
MINIMUM LAYER THICKNESS, d	3.30 Ft	3.30 Ft
BACKING LAYER <sup>A</sup> , RSP-CLASS	E6	E6
MINIMUM LAYER THICKNESS, f	1.25 Ft	1.25 Ft
RSP-FABRIC TYPE <sup>B</sup>	12 OZ NONWOVEN	12 OZ NONWOVEN
TOTAL ROCK THICKNESS (PERPENDICULAR)	4.60 Ft	4.60 Ft

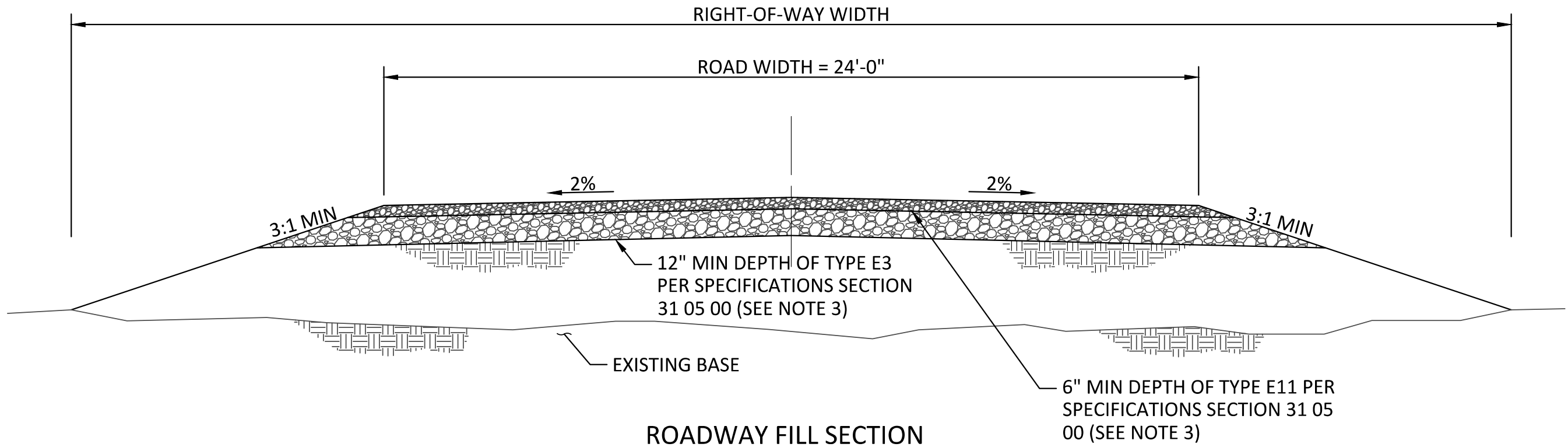
- A. RIPRAP SHALL MEET THE REQUIREMENT OF SPECIFICATION SECTION 31 05 00, MATERIALS FOR EARTHWORK.  
B. RSP-FABRIC TYPE SHALL MEET THE REQUIREMENT OF SPECIFICATION SECTION 31 05 19, GEOTEXTILES.

RIPRAP & ARMOR PROTECTION

SCALE: NTS



ROADWAY CUT SECTION



ROADWAY FILL SECTION

- NOTES:  
1. BORROW DITCHES SHALL HAVE A MINIMUM 3:1 SLOPE WITH 4:1 SLOPE RECOMMENDED. THE BACKSLOPE OF THE BORROW DITCH SHALL BE MINIMUM 1:1 BACKSLOPE WITH 4:1 BACKSLOPE RECOMMENDED. THE FLOW LINE OF THE DITCH SHALL BE 12" BELOW THE LOWEST AGGREGATE BASE COURSE TO ENCOURAGE DRAINAGE.  
2. OVER EXCAVATE EXISTING GRADE 12" MIN. PROOF ROLL AND BACKFILL WITH TYPE E9 PER SPECIFICATIONS, SECTION 31 05 00.  
3. PLACE AND SPREAD ALL MATERIALS EVENLY IN MAXIMUM 6-INCH LIFTS COMPACTED TO A MINIMUM 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

TYPICAL GRAVEL ROAD SECTION

SCALE: NTS



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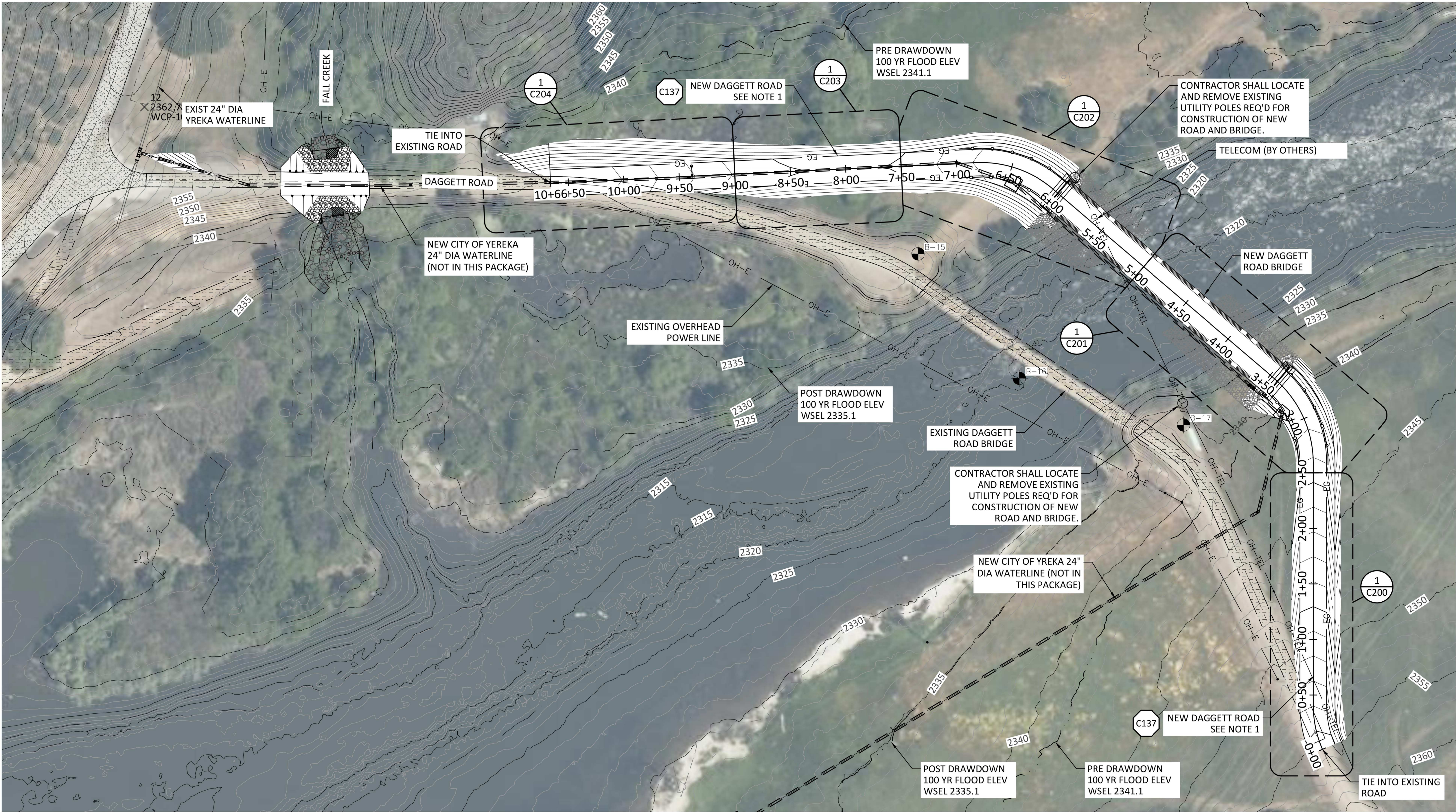
KLAMATH RIVER RENEWAL CORPORATION
DAGGETT BRIDGE
CIVIL STANDARD DETAILS

DESIGNED <u>R. HUDSON</u>
DRAWN <u>J. CHASE</u>
CHECKED <u>J. LOWY</u>
PROJECT DATE <u>6/24/22</u>

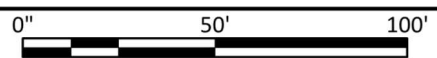
DRAWING
C002



- SHEET NOTES:
- FOR THE NEW DAGGETT ROAD PROFILES SEE C200.



CIVIL SITE PLAN  
SCALE: 1"= 50'



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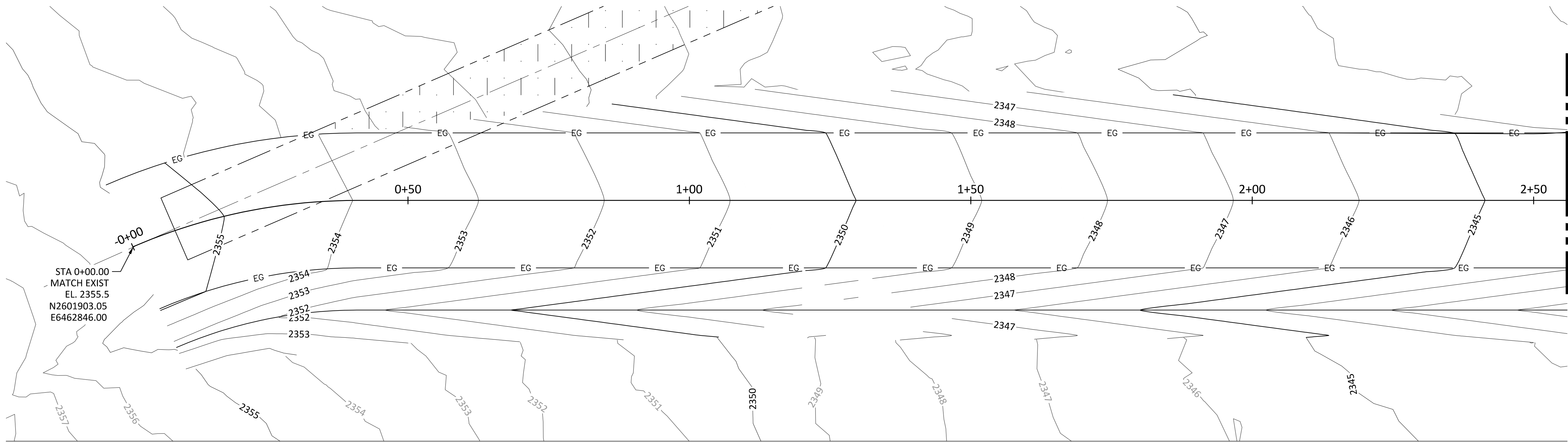


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KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>J. BURNS</u>	DRAWING  <b>C100</b>
DAGGETT BRIDGE		DRAWN <u>J. CHASE</u>	
CIVIL SITE PLAN		CHECKED <u>J. LOWY</u>	
		PROJECT DATE <u>6/24/22</u>	

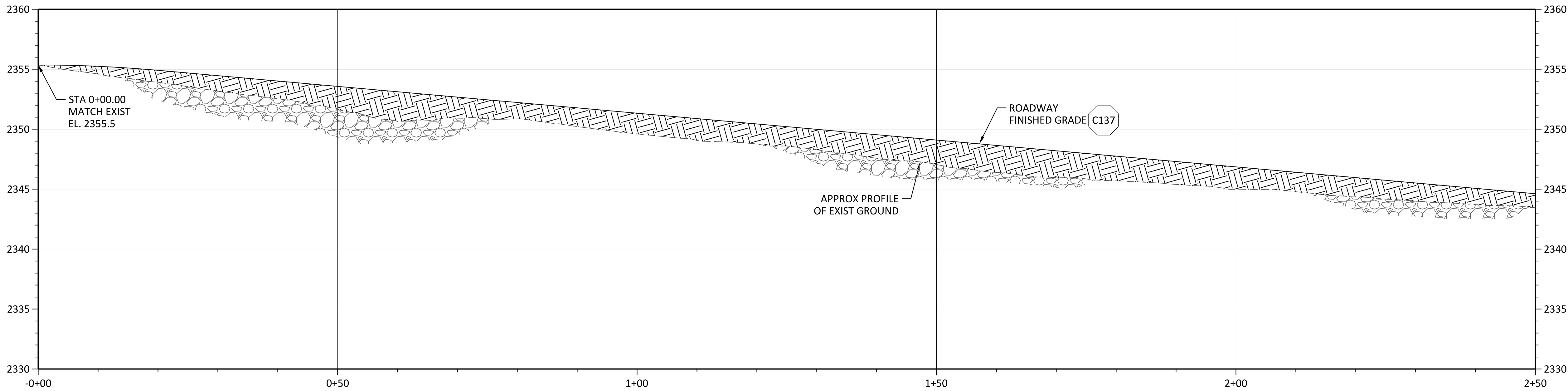




PLAN  
SCALE: 1"= 20'

0' 20' 40'

1  
C100



PROFILE  
SCALE: HORIZ 1"= 10'  
VERT 1"= 5'

0' 10' 20'

0' 5' 10'

SHEET NOTES:  
1. SEE DWG C001 FOR ROADWAY DESIGN COORDINATES.

0	6/24/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



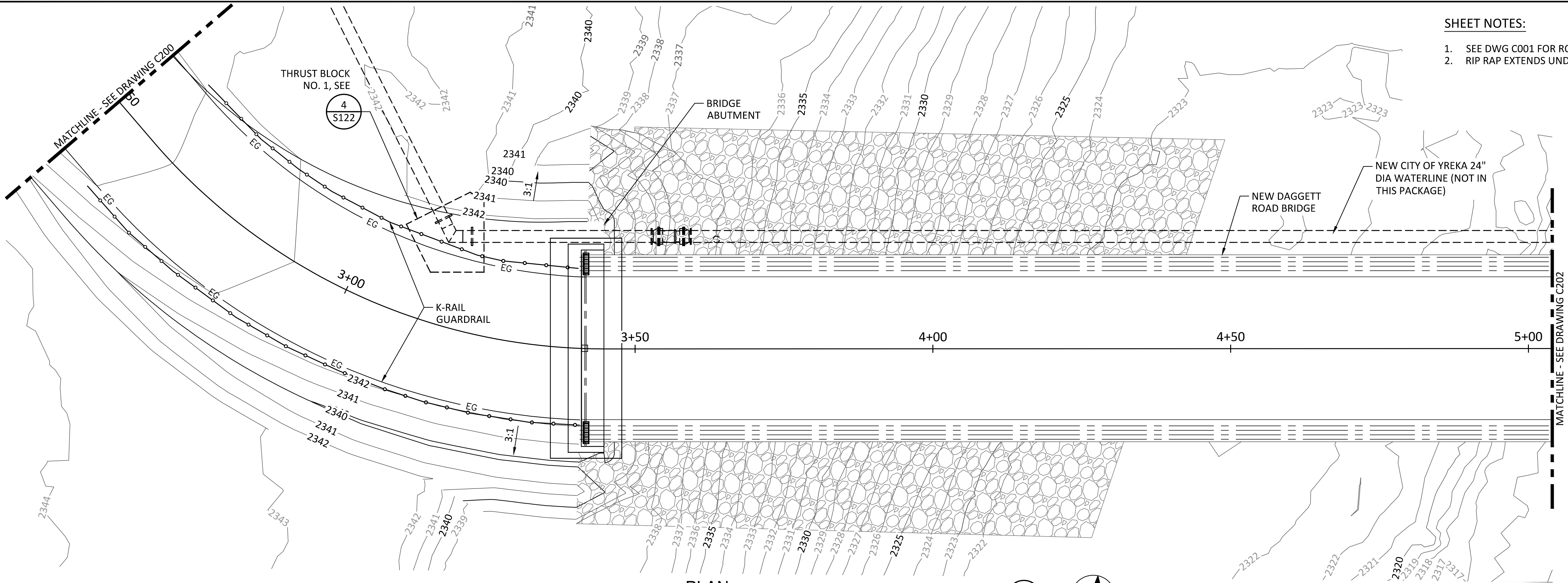
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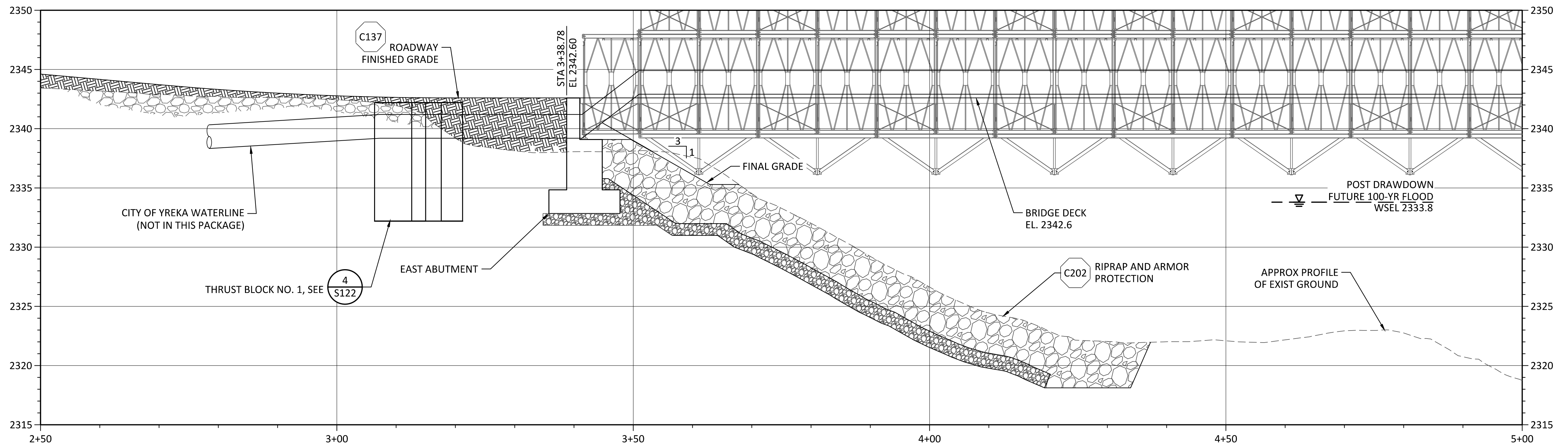
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>J. BURNS</u>
DAGGETT BRIDGE		DRAWN <u>R. WOOD</u>
PLAN AND PROFILE 1		CHECKED <u>J. LOWY</u>
		PROJECT DATE <u>6/24/22</u>

DRAWING
C200





**PLAN**  
SCALE: 1" = 10'



**PROFILE**  
SCALE: HORIZ 1" = 10'  
VERT 1" = 5'

0	6/24/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



**WARNING**

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KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

PLAN AND PROFILE 2

DESIGNED J. BURNS

DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 6/24/22

DRAWING

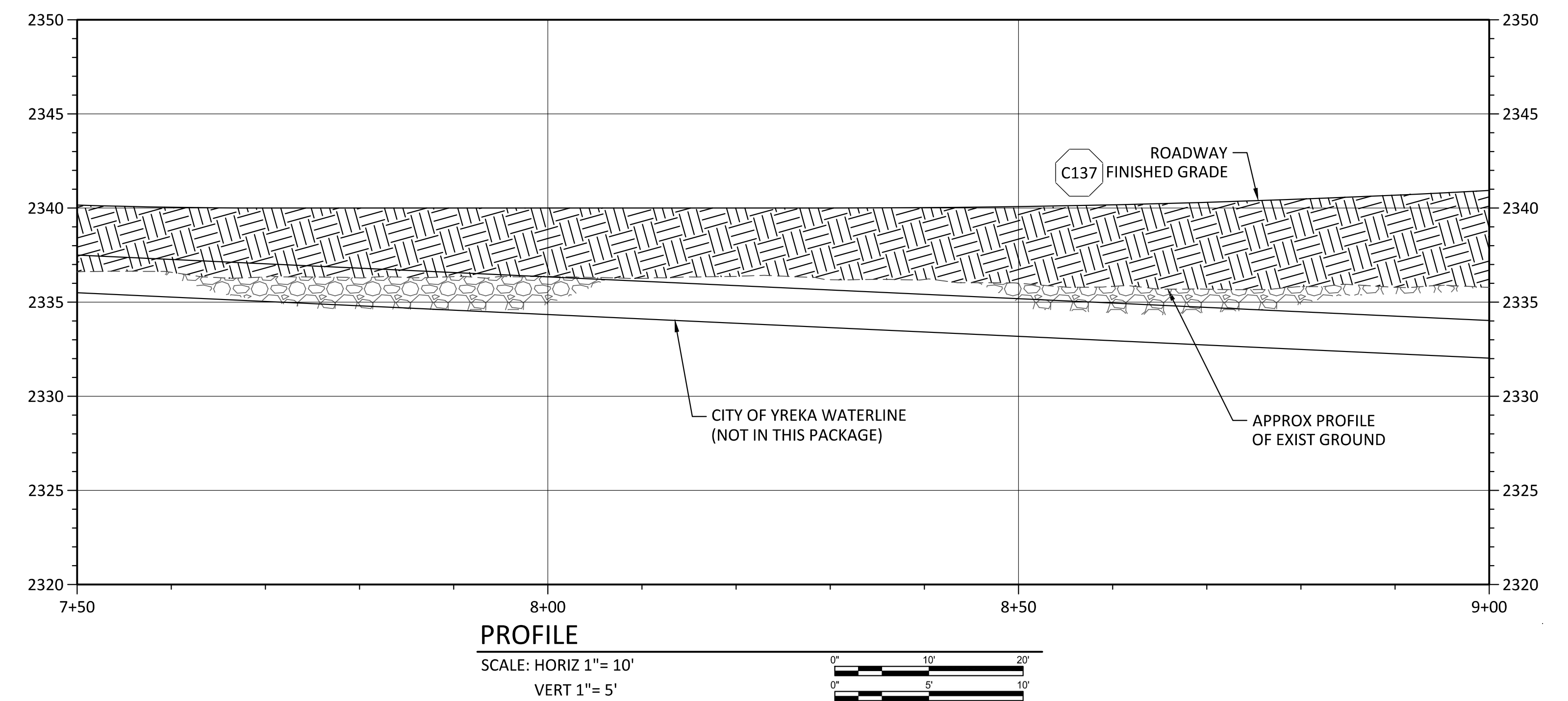
**C201**





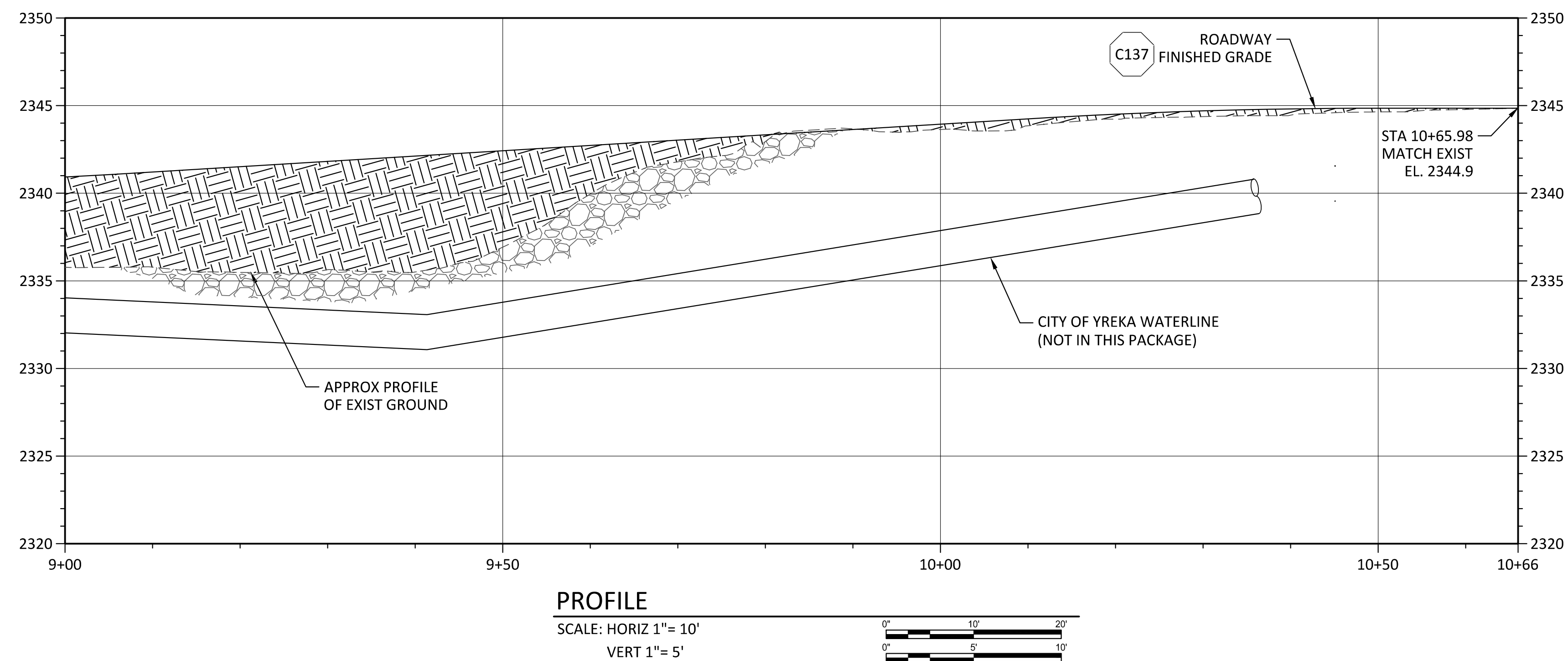


1. SEE DWG C001 FOR ROADWAY DESIGN COORDINATES.

[illegible]

Path: C:\Vault20\Klamath River Renewal Corp\Daggett Bridge Design\C203.dwg Plot date: Jun 24, 2022 05:30pm, CAD User: JoeNeves

1. SEE DWG C001 FOR ROADWAY DESIGN COORDINATES.




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REV	DATE	BY	DESCRIPTION



**WARNING**

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KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

PLAN AND PROFILE 5

DESIGNED J. BURNS

DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 6/24/22

## DRAWING

C204



GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

1. APPLICABLE CODES: BRIDGE SUBSTRUCTURE AND WATERLINE SUPPORT

A. 2019 CALIFORNIA BUILDING CODE (CBC)

B. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

C. AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL

D. 2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION WITH CALIFORNIA AMENDMENTS

E. ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
2. APPLICABLE CODES: BRIDGE SUPERSTRUCTURE

A. 2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION WITH CALIFORNIA AMENDMENTS
3. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
4. ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.
5. DEAD LOADS:

A. SELF WEIGHT
6. LOASNOWDS:

GROUND SNOW LOAD, Pg = 54 PSF

TERRAIN CATEGORY = C

SNOW EXPOSURE FACTOR, Ce = 0.9

THERMAL FACTOR, Ct = 1.0

IMPORTANCE FACTOR, I = 1.0

MINIMUM ROOF SNOW LOAD, Pf = 40 PSF
7. LIVE LOADS:

HL-93 VEHICLE LOADING
8. WIND LOADS:

RISK CATEGORY II

BASIC WIND SPEED = 115 MPH (ULT)
9. SEISMIC LOADS:

MAPPED SPECTRAL RESPONSE ACCELERATIONS

Ss = 0.4949

S1 = 0.2132

DESIGN SPECTRAL RESPONSE ACCELERATIONS

Sds = 0.5939

Sd1 = 0.3383

SITE CLASS = C

SEISMIC ZONE (AASHTO) = 3

SEISMIC DESIGN CATEGORY = D

IMPORTANCE FACTOR, Ie = 1.0
10. SOIL DESIGN PARAMETERS:

A. NET ALLOWABLE SOIL BEARING PRESSURES: 8.9 KSF

B. EQUIVALENT DRAINED FLUID PRESSURES:

ACTIVE:

AT REST:

PASSIVE:

C. VERTICAL SURCHARGE: HL-93 VEHICLE LOADING

D. COEFFICIENT OF FRICTION: 0.45

E. NATIVE SOIL UNIT WEIGHT: 125 PCF

F. GROUND WATER (GW) ELEVATION: 2335.1

GENERAL INFORMATION

1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
4. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
5. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.
6. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE.

INSPECTION AND TESTING

1. SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.
2. SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE OWNER.
3. SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH SPECIFICATIONS SECTION 01 45 60.
4. SPECIAL INSPECTION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH SPECIFICATIONS SECTION 01 45 60 ON THE FOLLOWING PORTIONS OF THE WORK:

A. CONCRETE PLACEMENT

B. REINFORCING STEEL PLACEMENT

C. STRUCTURAL WELDING

D. ANCHORS, EMBEDS AND BOLTS INSTALLED IN CONCRETE

E. GRADING, EXCAVATION, AND FILLING
5. THE CONTRACTOR SHALL SCHEDULE THE SPECIAL INSPECTION VISITS, PROVIDE 48 HOURS NOTICE TO THE INSPECTOR, AND PROVIDE SAFE ACCESS TO ITEMS TO BE INSPECTED. THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. DISCREPANCIES WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
6. SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS WILL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES WILL BE SUBMITTED.

GEOTECHNICAL OBSERVATION

1. SPECIAL INSPECTION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH SPECIFICATIONS SECTION 01 45 60 ON THE FOLLOWING PORTIONS OF THE WORK:

A. SOILS

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 45 60.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.

FOUNDATIONS

1. REFER TO GEOTECHNICAL DATA REPORT BY KNIGHT PIESOLD DATED DECEMBER 16, 2020.
2. FOUNDATION SLABS, SLABS-ON-GRADE AND WALL FOUNDATIONS SPECIFICALLY NOTED TO BE ON FILL SHALL BEAR ON 12" CRUSHED ROCK SURFACE SHALL BE PROOF ROLLED TO 95% COMPACTION PRIOR TO PLACING FILL.
3. FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR QUALIFIED DESIGNEE PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS AND DATA REPORTS.
4. NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
5. USE UTMOST CARE TO AVOID DAMAGE TO EXISTING STRUCTURES WHEN USING EXPLOSIVES FOR EXCAVATION OF ROCK.

FORMWORK, SHORING AND BRACING

1. STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
2. "BURY" BARS OR "CARRIER" BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.

CONCRETE REINFORCING

1. REINFORCING STEEL:

TYPICAL: ASTM A615, GRADE 60

WELDED: ASTM A706, GRADE 60 (WELDING IS ONLY PERMITTED WITH WRITTEN PERMISSION FROM ENGINEER)
2. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
3. MINIMUM REINFORCING FOR CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS:

THICKNESS	REINF EACH WAY	LOCATION
6"	#4@12"	CENTERED
8"	#5@12"	CENTERED
10"	#4@12"	EACH FACE
12"	#5@12"	EACH FACE

PROVIDE LARGER SIZES AND MORE REINFORCING IN SECTIONS OF CONCRETE WHERE REQUIRED BY THE DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.
4. CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE:

WHEN PLACED IN CONTACT WITH EARTH: 3"

OTHER CONCRETE SURFACES: 2.5"
5. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL S141. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.
6. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
7. WALL CORNER AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED IN DETAIL S143.
8. WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS OR PILASTERS FOOTINGS.
9. REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
10. REFER TO OPENING REINFORCING DETAILS S142 AND S144.

WATER LINE SUPPORT BRACE

BRIDGE MANUFACTURER IS RESPONSIBLE FOR PROVIDING PIPE (WATER LINE) SUPPORT BRACE AS SHOWN ON SHEET S123. LOAD IMPOSED ON EACH PIPE SUPPORT IS PROVIDED IN THE LOAD TABLE ON SHEET S123.



					<div>WARNING</div> <div><div>01/2</div></div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</div>	<div><div><div></div></div><div>McMILLEN JACOBS ASSOCIATES</div></div>	<div><div><div></div></div><div>KLAMATH RIVER RENEWAL CORPORATION</div></div>	KLAMATH RIVER RENEWAL CORPORATION	DESIGNED <u>K. HEINDEL</u>	DRAWING  <div>S001</div>				
								DAGGETT BRIDGE	DRAWN <u>J. CHASE</u>					
								STRUCTURAL GENERAL NOTES 1	CHECKED <u>Z. AUTIN</u>					
									PROJECT DATE <u>6/24/22</u>					
0	6/24/22	ZDA	ISSUED FOR CONSTRUCTION											
REV	DATE	BY	DESCRIPTION											



GENERAL STRUCTURAL NOTES

- CONCRETE REINFORCING (CONT).
11. REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE DESIGN STRENGTH = 4,500 PSI AT 7 DAYS <sup>3</sup> GRADE 60 REINF STEEL										
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LENGTH										
SPACING = 3"	TOP BAR <sup>2</sup>	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING = 4"	TOP BAR <sup>2</sup>	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING = 6"	TOP BAR <sup>2</sup>	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
	OTHER BAR	1'-4"	1'-8"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDMENT LENGTH										
SPACING = 3"	TOP BAR <sup>2</sup>	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING = 4"	TOP BAR <sup>2</sup>	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"

<sup>1</sup>LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2.5". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".

<sup>2</sup>TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

CAST IN PLACE CONCRETE

1. 28-DAY COMPRESSIVE STRENGTHS:
- |                |          |
|----------------|----------|
| STRUCTURES:    | 4500 PSI |
| CONCRETE FILL: | 3000 PSI |
2. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
3. ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS TO 1/4" AMPLITUDE PRIOR TO PLACING ADJACENT CONCRETE.
4. COORDINATE PLACEMENT OF OPENINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
5. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.

WELDING

1. WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS):
- D1.1, STRUCTURAL WELDING CODE - STEEL
  - D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL
  - D1.5, BRIDGE WELDING CODE
2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.
3. USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.
4. BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

STRUCTURAL STEEL AND METAL FABRICATIONS

1. STRUCTURAL STAINLESS STEEL
- SHAPES A276, AISI 304, 304L FOR WELDING
  - STEEL PLATE A240, AISI 304, 304L FOR WELDING
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
- W-SHAPES A572, GRADE 50
  - MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC. A572, GRADE 50 OR A36
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
4. FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM STANDARDS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:
- ANCHOR BOLTS (AB)
  - STEEL F1554, GRADE 36
  - BOLTS
  - STEEL ASTM F3125, GRADE A325
  - STAINLESS STEEL F593, AISI TYPE 304, CONDITION CW
5. ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
6. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

FINISHING

1. CONCRETE SURFACES MUST BE FINISHED TO ENSURE SMOOTH SURFACES, WITH ONE-INCH WIDE, 45° CHAMFERS.

BRIDGE DESIGN

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A FULLY DESIGNED, ENGINEERED, AND CONSTRUCTED CLEAR SPAN BRIDGE IN ACCORDANCE WITH THE GENERAL ARRANGEMENT SHOWN ON THE CONTRACT DRAWINGS.
2. CONTRACTOR SHALL WORK WITH A QUALIFIED SUPPLIER OF THE BRIDGE ELEMENTS AND ALL DRAWINGS AND SPECIFICATIONS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA. THE LICENSED INDIVIDUAL SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE AS A LICENSED PROFESSIONAL STAMPING DESIGNS OF A SIMILAR NATURE.
3. SHOP DRAWINGS: FABRICATION AND ERECTIONS DRAWINGS SHALL BE PROVIDED FOR REVIEW IN

ACCORDANCE WITH CONTRACT REQUIREMENTS FOR SUBMITTALS. ALL DRAWINGS SHALL BE SIGNED AND SEALED BY THE APPROVED ENGINEER RESPONSIBLE FOR THE DESIGN.

4. STRUCTURAL CALCULATIONS: CALCULATIONS SHALL INCLUDE ALL DESIGN INFORMATION NECESSARY TO DETERMINE THE STRUCTURAL ADEQUACY OF THE BRIDGE AND BE STAMPED BY THE LICENSED PROFESSIONAL.

5. DESIGN REQUIREMENTS: DESIGN SHALL MEET THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

- a. LOAD RESISTANCE FACTOR DESIGN (LRFD) AS DEFINED IN THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.
- b. SEISMIC DESIGN SHALL BE THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN AND PROJECT SPECIFIC DESIGN CRITERIA.
- c. DESIGN LIFE SHALL BE 75 YEARS.
- d. LOADS:
- d.1. DEAD LOADS- SELF WEIGHT OF ALL MEMBERS AND SUPERIMPOSED LOADS SUCH AS RAILINGS.
  - d.2. LIVE LOAD SHALL BE HL-93 OR THE MAXIMUM CONSIDERED CONSTRUCTION LOADS BASED ON CONTRACTOR SELECTED EQUIPMENT FOR CONSTRUCTION OF THE PROJECT.
  - d.3. WIND LOADS BASED ON PROJECT SPECIFIC CRITERIA SHALL BE APPLY TO THE DESIGN.
  - d.4. THERMAL MOVEMENTS AND LOADS SHALL BE ACCOMMODATED IN THE DESIGN
- e. STRUCTURAL ELEMENTS:
- e.1. STEEL OR PRECAST ELEMENTS SHALL BE ALLOWED FOR THE SUBSTRUCTURE.
  - e.2. BRIDGE BEARINGS SHALL ALLOW FOR EXPECTED BRIDGE MOVEMENT BOTH LONGITUDINALLY AND ROTATIONALLY WHILE TRANSFERRING ALL DEAD AND LIVE LOADS TO THE ABUTMENTS.
  - e.3. BRIDGE RAIL SHALL BE PROVIDED IN CONFORMANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS REQUIREMENTS.
6. PRELIMINARY BRIDGE DESIGN BASED ON INFORMATION PROVIDED BY THE FOLLOWING:
- f. ACROW, 506 2ND AVENUE STE. 1400, SEATTLE, WA.
- g. ABUTMENT DESIGN BASED ON THE FOLLOWING UNFACTORED REACTIONS PROVIDED BY THE BRIDGE MANUFACTURER:
- g.1. DEAD LOAD: 210 KIPS (2 LOCATIONS PER ABUTMENT)
  - g.2. LIVE LOAD: 165 KIPS (2 LOCATIONS PER ABUTMENT)
  - g.3. WIND LOAD: 54 KIPS (PER ABUTMENT)

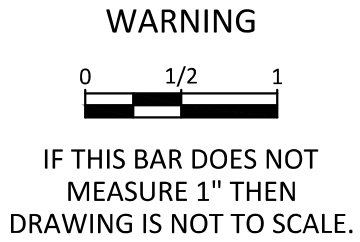
STRUCTURAL FILL

TYPE SF (STRUCTURAL FILL / FOUNDATION BASE): CRUSHED ROCK STRUCTURAL FILL MATERIAL OF SUCH NATURE THAT IT CAN BE COMPACTED READILY BY WATERING AND ROLLING TO FORM A FIRM, STABLE BASE FOR FILL MATERIAL REQUIRED BENEATH CONCRETE FOUNDATIONS. MATERIAL SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. AT THE OPTION OF THE CONTRACTOR, THE GRADING FOR EITHER THE 1.5 INCH MAXIMUM SIZE OR 0.75-INCH MAXIMUM SIZE GRADATION MAY BE USED MATERIAL BENEATH CONCRETE FOUNDATIONS. THE SAND EQUIVALENT VALUE SHALL BE GREATER THAN 22. THE MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	1.5 INCH MAX GRADATION	0.75 INCH MAX GRADATION
2 INCH	100	-
1.5 INCH	90-100	-
1 INCH	-	100
0.75 INCH	81-91	90-100
NO. 4	43-53	55-67
NO. 16	23-29	28-38
NO. 200	4-10	4-10



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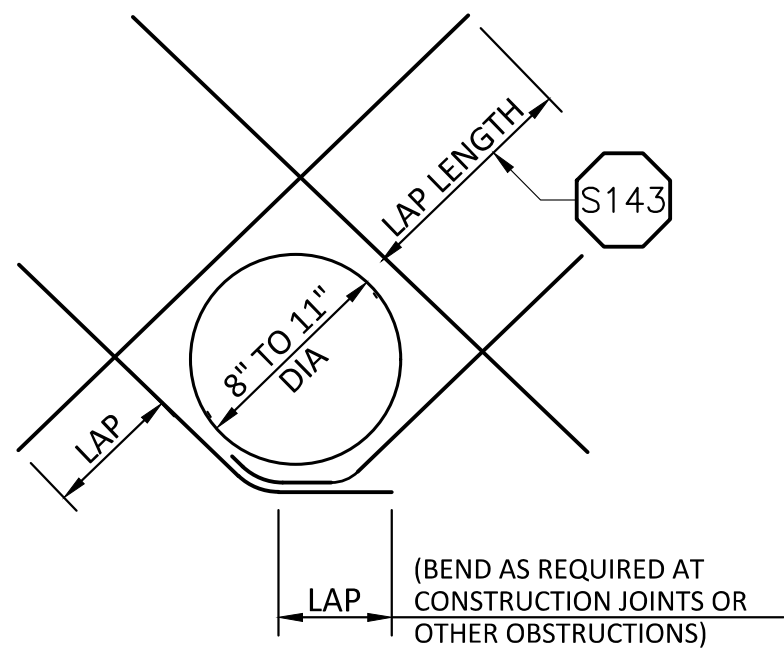


TYPICAL LAP SPLICE LENGTHS IN INCHES, PER ACI 318/350					
BAR SIZE (#)	BAR POSITION	CLASS B LAP LENGTH		Ld	
		SPACING >= 6"	SPACING < 6"	SPACING >= 6"	SPACING < 6"
3	BOTTOM	16	16	12	12
	TOP	16	16	12	12
4	BOTTOM	16	18	12	14
	TOP	19	23	14	18
5	BOTTOM	18	26	14	20
	TOP	23	34	18	26
6	BOTTOM	21	35	17	27
	TOP	28	46	21	35
7	BOTTOM	31	51	24	40
	TOP	40	67	31	51
8	BOTTOM	35	59	27	45
	TOP	46	76	35	59
9	BOTTOM	44	66	34	51
	TOP	56	86	44	66
10	BOTTOM	52	73	40	56
	TOP	68	95	52	73
11	BOTTOM	62	80	48	62
	TOP	80	104	62	80

- NOTES:
- FOR GRADE 60 REINFORCING STEEL BARS.
  - FOR CONCRETE COMPRESSIVE STRENGTH  $f'c=4,500$  PSI
  - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
  - ALL REINFORCING HOOKS SHALL BE PER ACI STANDARDS.

LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE

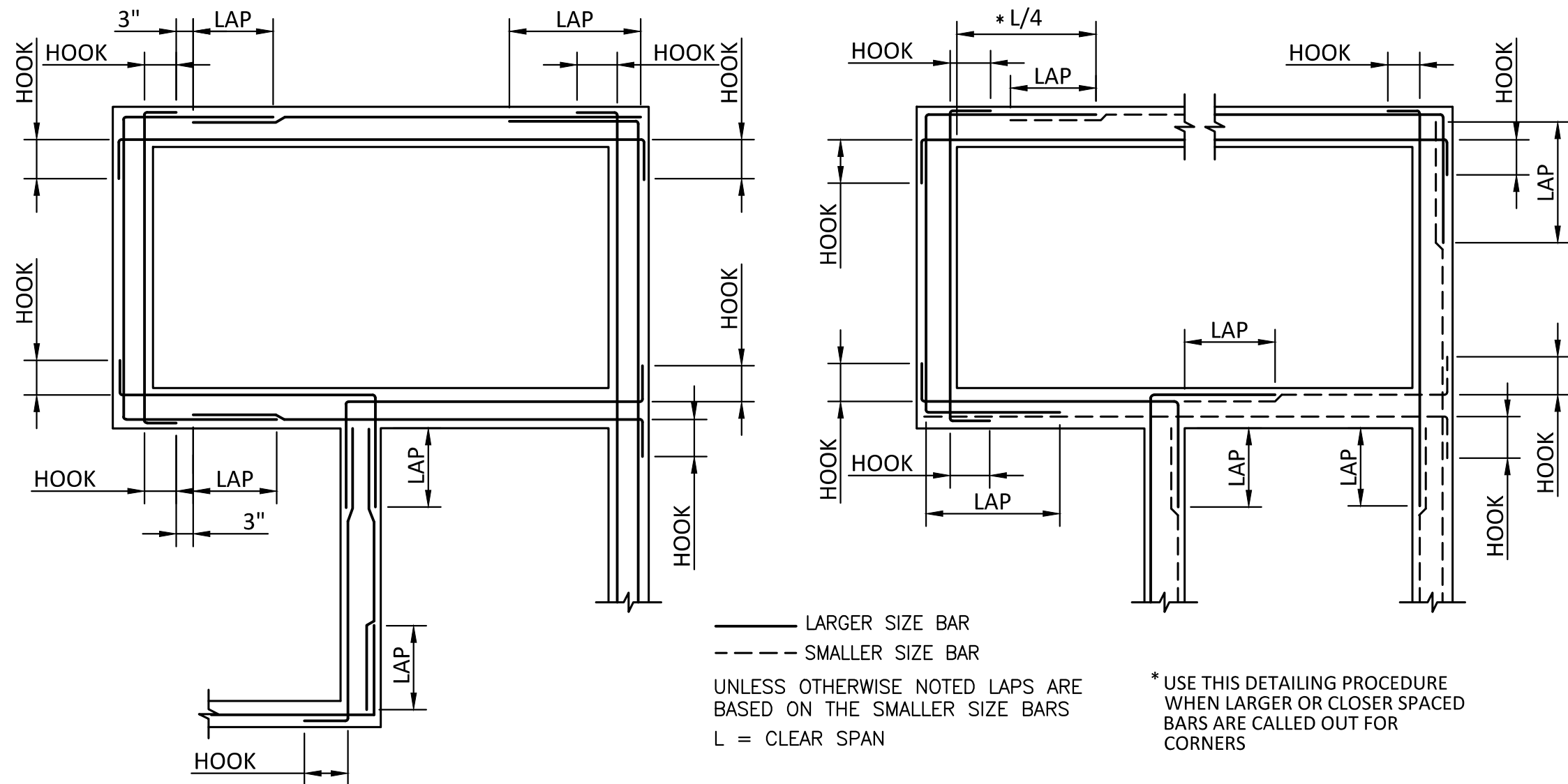
SCALE: NTS



- NOTES:
- CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.
  - DIAGONAL BARS TO BE PLACED;
    - AT CENTERLINE OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
    - AT EACH FACE OF WALL OR SLAB WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
  - UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
  - THIS DETAIL TO BE USED WHEN CALLED FOR ON THE DRAWINGS OR WHEN NO OTHER DETAIL IS SPECIFIED.

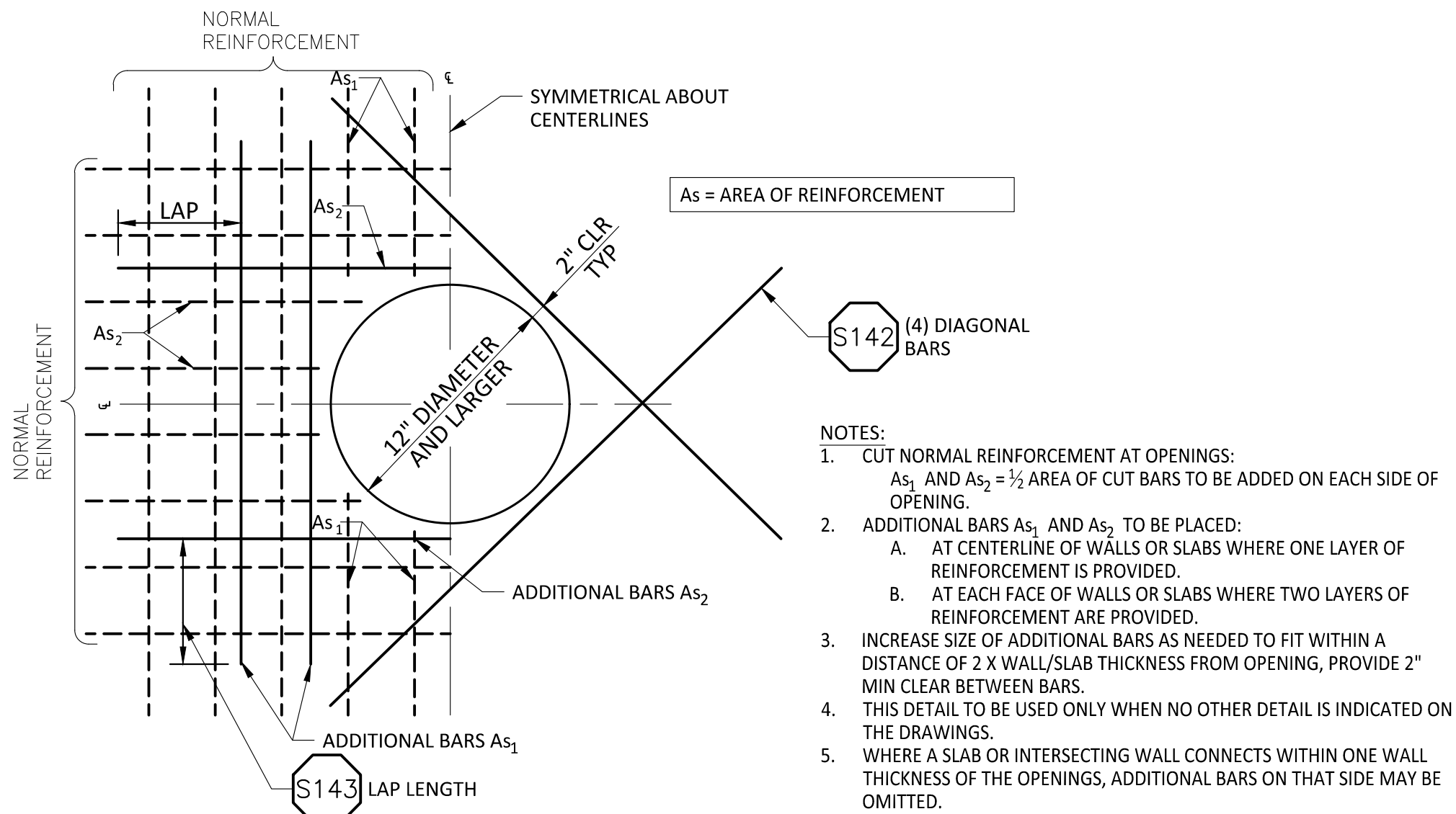
DIAGONAL REINFORCEMENT AT CIRCULAR OPENINGS

SCALE: NTS



HORIZONTAL REINFORCEMENT AT WALL INTERSECTIONS

SCALE: NTS



ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS (12"D OR LARGER)

SCALE: NTS



0	6/24/22	ZDA	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

DAGGETT BRIDGE

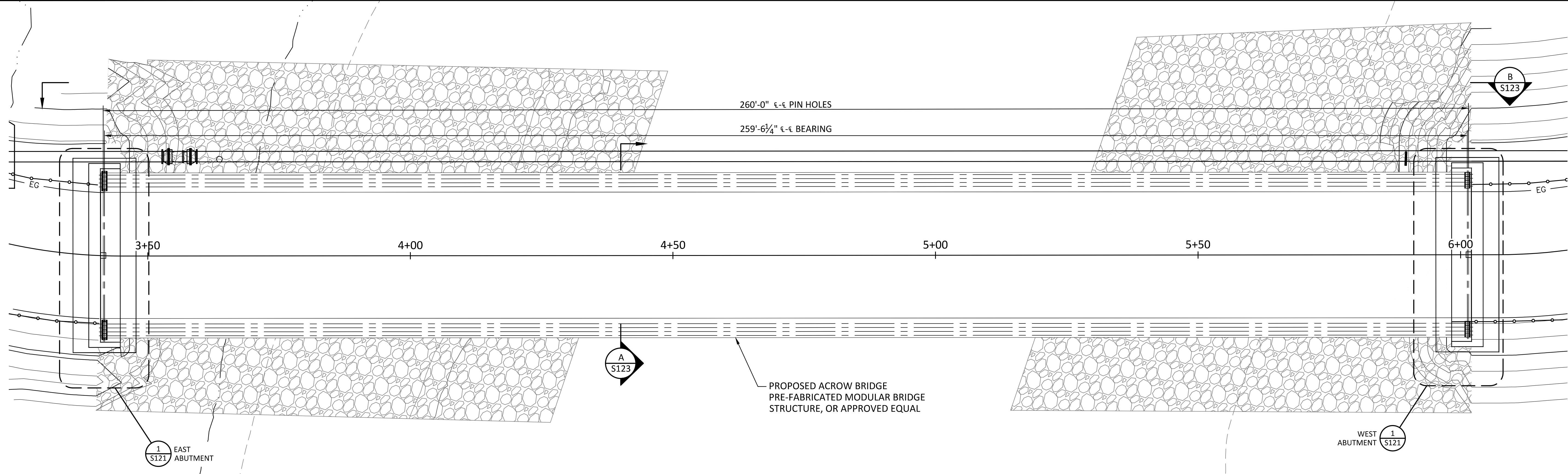
STRUCTURAL STANDARD DETAILS

DESIGNED K. HEINDEL  
DRAWN J. CHASE  
CHECKED Z. AUTIN  
PROJECT DATE 6/24/22

DRAWING

S003

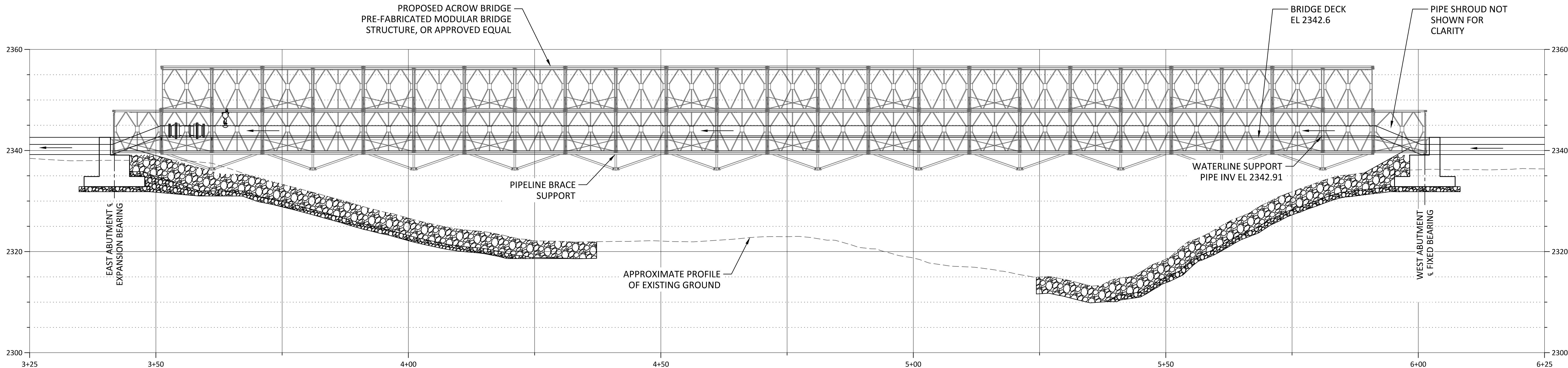




BRIDGE PLAN

SCALE: 1"= 10'

0" 10' 20'



BRIDGE PROFILE

SCALE: 1"= 10'

0" 10' 20'

REV	DATE	BY	DESCRIPTION
0	6/24/22	ZDA	ISSUED FOR CONSTRUCTION



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



KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

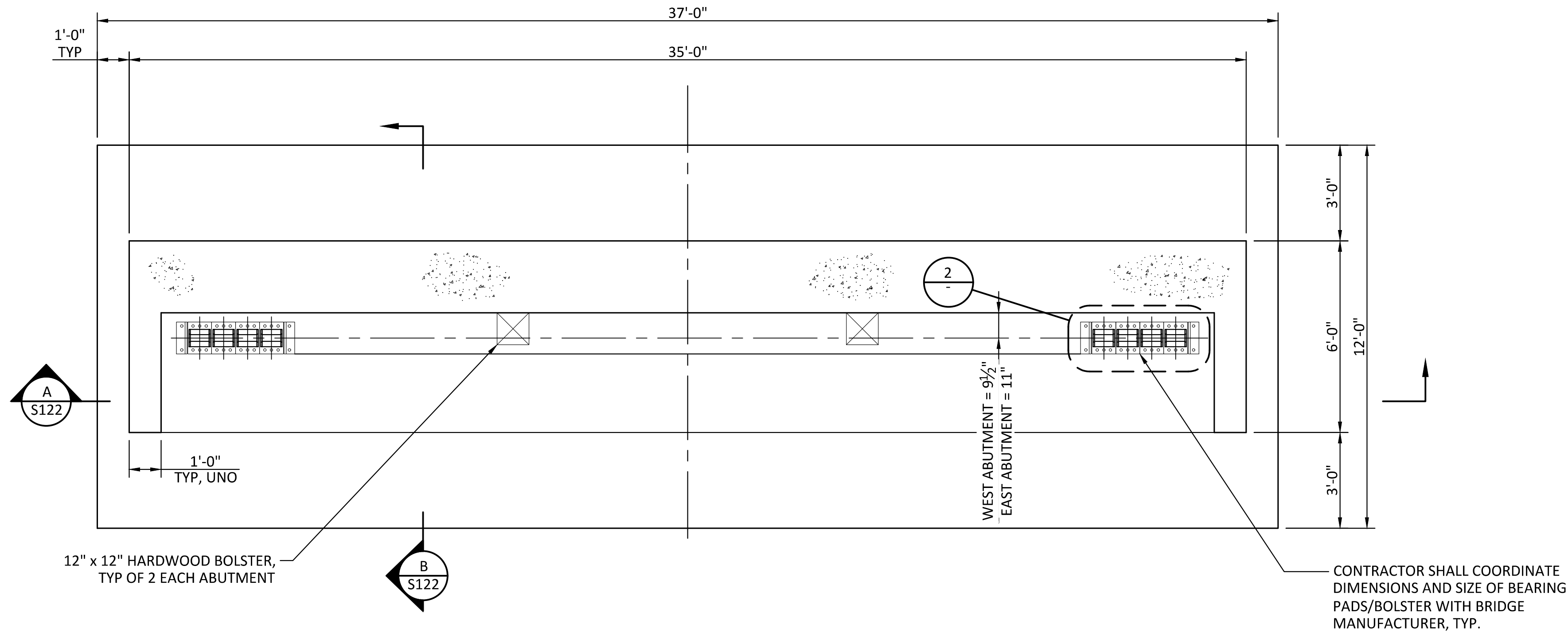
BRIDGE PLAN AND PROFILE

DESIGNED K. HEINDEL  
DRAWN J. CHASE  
CHECKED Z. AUTIN  
PROJECT DATE 6/24/22

DRAWING

S120

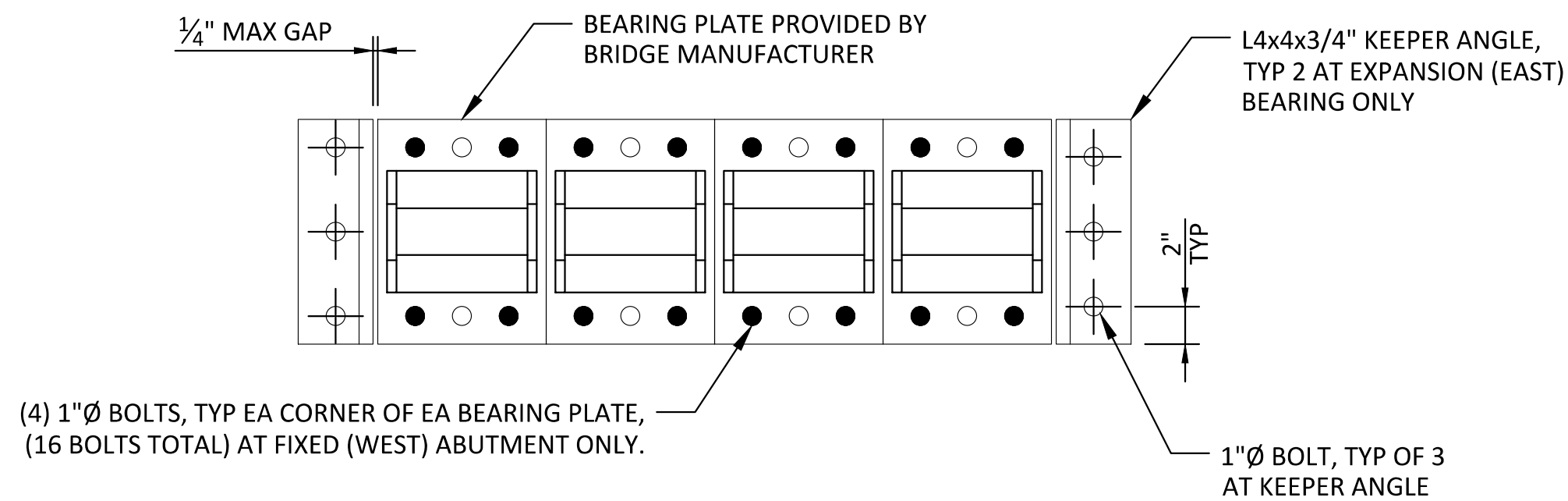




**BRIDGE ABUTMENT PLAN**

SCALE: 3/8" = 1'-0"

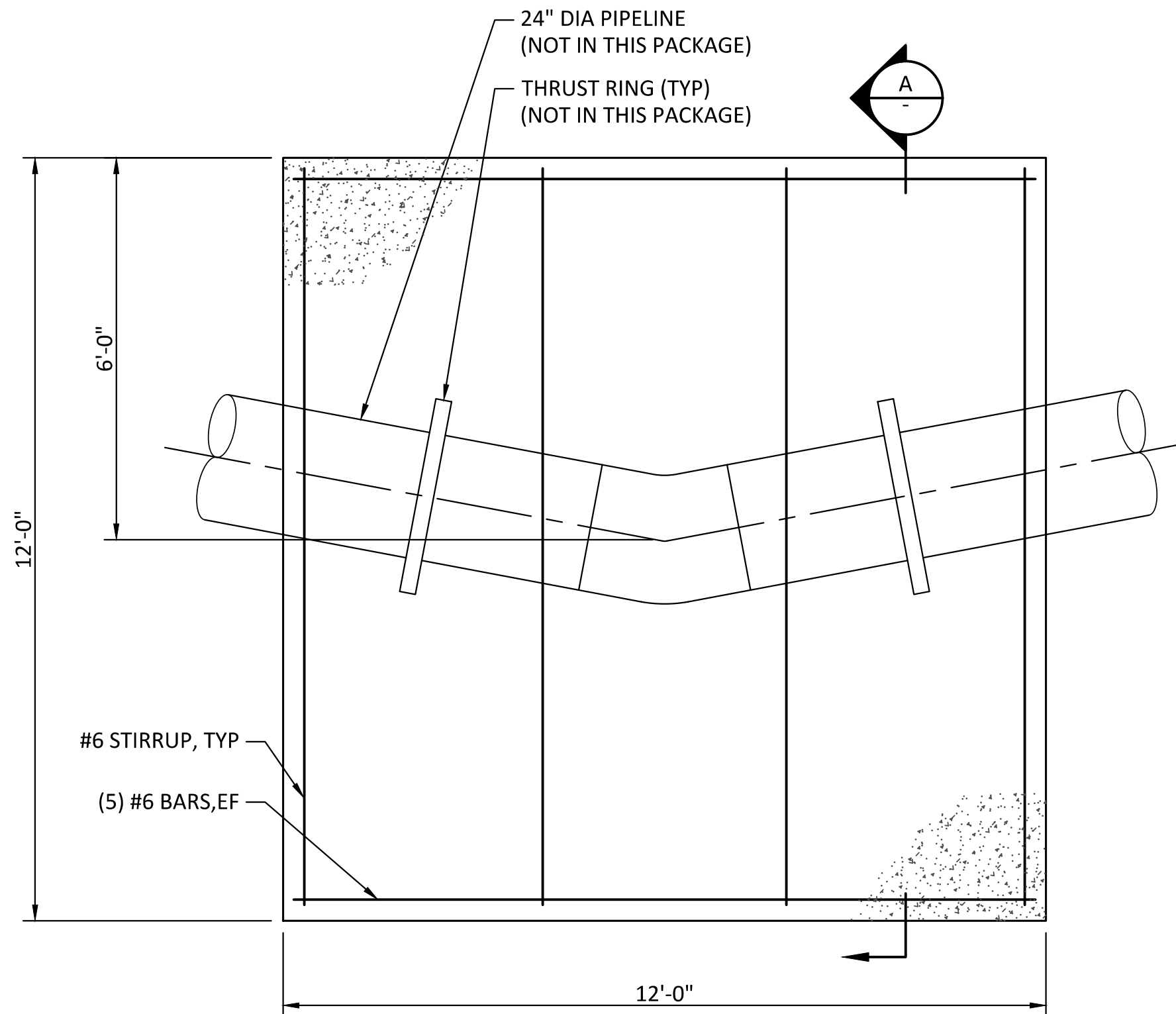
1  
S120



**DETAIL**

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

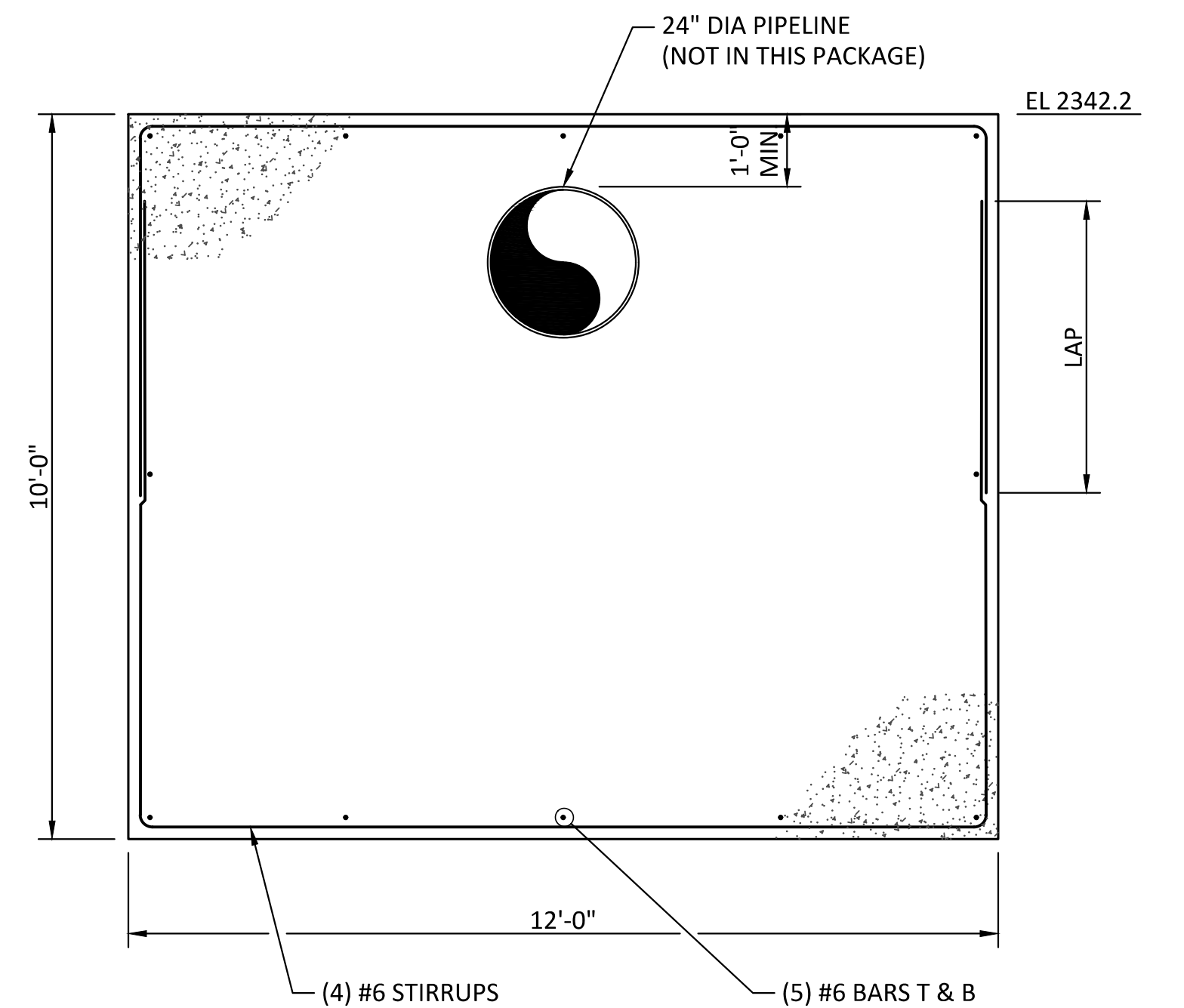
2  
-



**THRUST BLOCK NO. 2**

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

3  
C202



**SECTION**

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

A  
-

REV	DATE	BY	DESCRIPTION
0	6/24/22	ZDA	ISSUED FOR CONSTRUCTION



**WARNING**

0 1/2 1

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



KLAMATH RIVER RENEWAL CORPORATION

DAGGETT BRIDGE

BRIDGE ABUTMENT PLAN

DESIGNED K. HEINDEL

DRAWN J. CHASE

CHECKED Z. AUTIN

PROJECT DATE 6/24/22

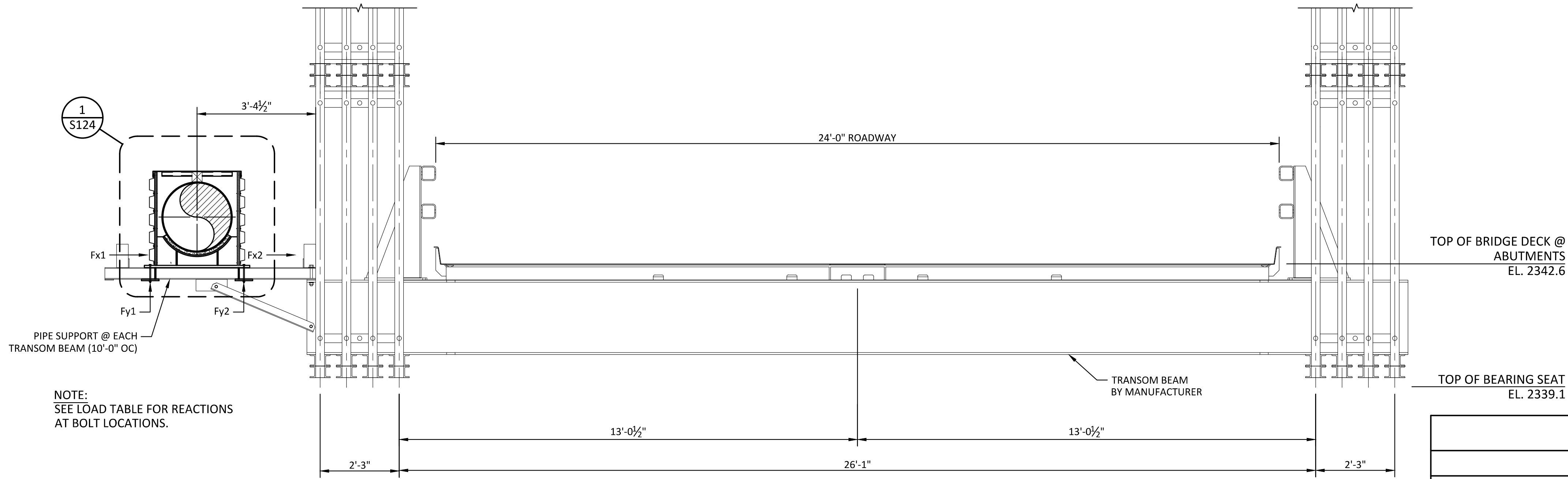
DRAWING

**S121**





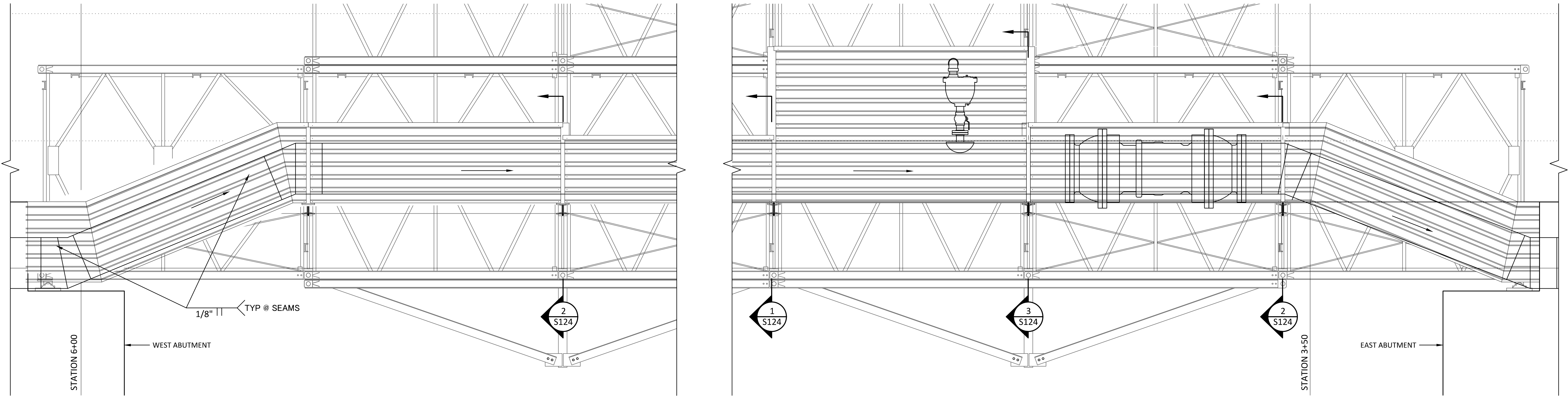




SECTION @ PIPE SUPPORT  
SCALE: 1/2"= 1'-0"

LOAD TABLE @ BOLT LOCATIONS, WATER LINE PIPE SUPPORT				
	Fy1	Fx1	Fy2	Fx2
DEAD LOAD	2,384	-	2,384	-
SNOW LOAD	700	-	700	-
WIND LOAD	-3,354 OR 2,454	±1,660	-3,354 OR 2,454	±1,660
SEISMIC	-228 OR 136	±228	-228 OR 136	±228

NOTE: ALL LOAD IS IN POUNDS.



PIPE SUPPORT ELEVATION  
SCALE: 1/2"= 1'-0"

REV	DATE	BY	DESCRIPTION
0	6/24/22	ZDA	ISSUED FOR CONSTRUCTION



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

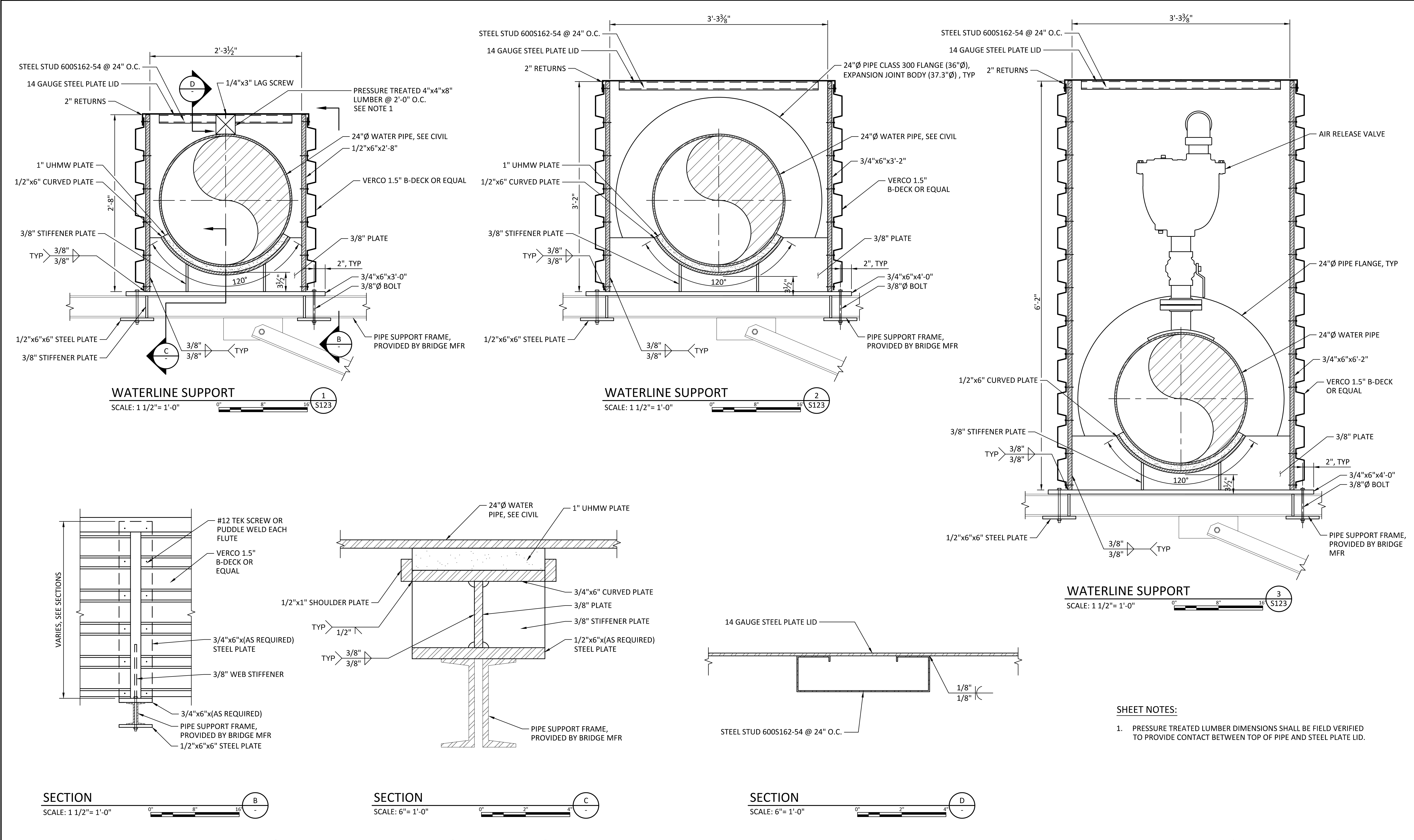


KLAMATH RIVER RENEWAL CORPORATION  
DAGGETT BRIDGE  
WATERLINE SUPPORT SECTIONS AND DETAILS 1

DESIGNED K. HEINDEL  
DRAWN J. CHASE  
CHECKED Z. AUTIN  
PROJECT DATE 6/24/22

DRAWING  
**S123**





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