

Project Location: Whatcom County, WA



Know what's below.
Call before you dig.

Sudden Valley Community Bridge Replacement and Stream Crossing Improvements 2025

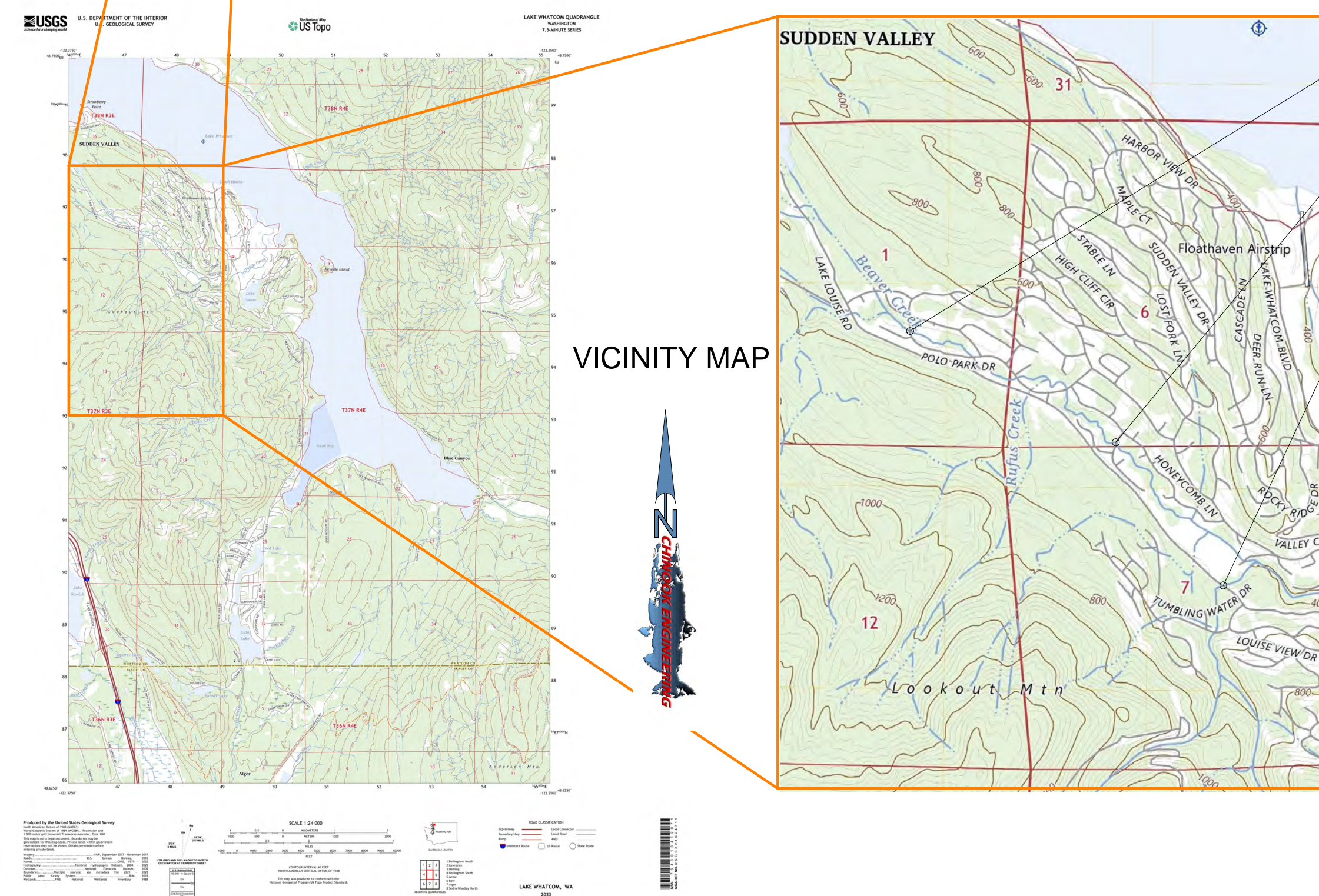
PREPARED BY



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Professional Consulting Engineers

PREPARED FOR:

Prepared for the Sudden Valley
Community



Project Locations, see CVR.2

Project Manager

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Jay S. Kidder
APPROVED AT CHINOOK ENGINEERING: DATE 01/21/2024

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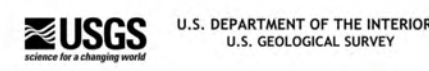
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See Sheet CVR.2
**Sudden Valley Community Bridge
Replacement and Stream
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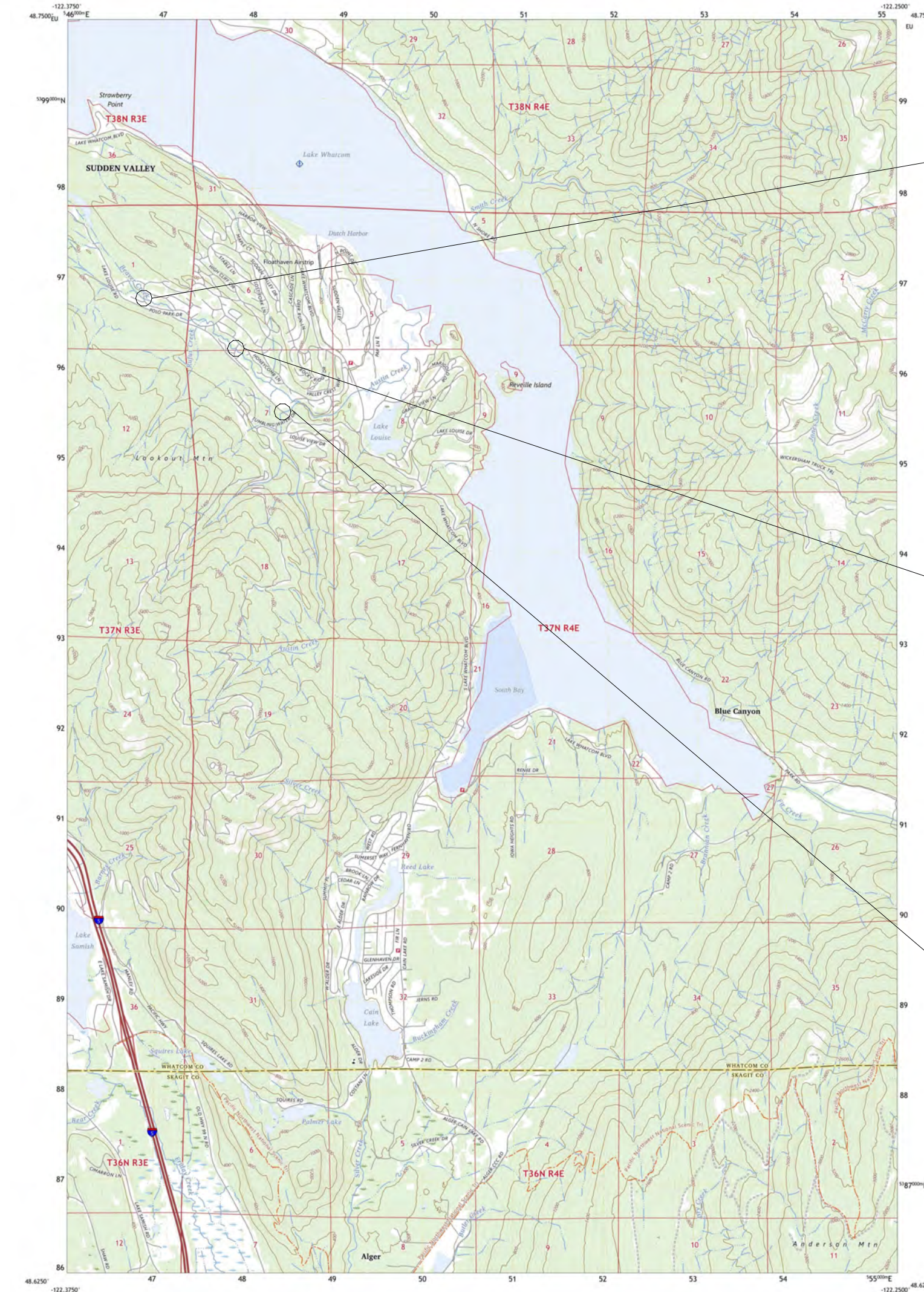
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U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



LAKE WHATCOM QUADRANGLE
WASHINGTON
7.5-MINUTE SERIES



Produced by the United States Geological Survey
Map Scale: 1:24,000
Scale: 1:24,000
Lake Whatcom, WA
2023

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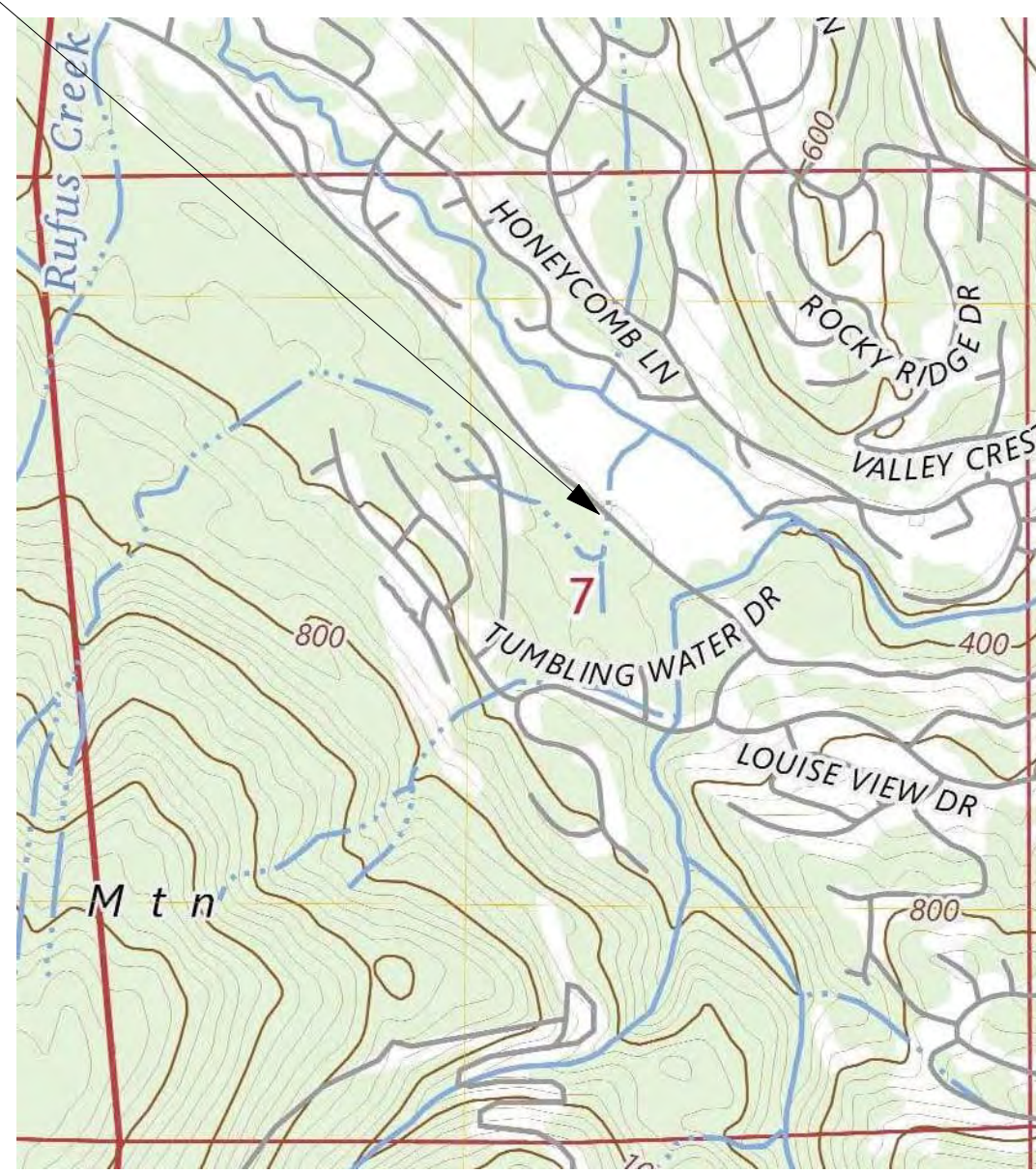
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Polo Park Dr Bridge Culvert Removal
NW 1/4 SE1/4
S1 T37N R4 E
LAT: 48.722305618
LONG: -122.3634742080



Roy Ave Maintenance Yard Bridge Replacement
SE 1/4 SW1/4
S6 T37N R4 E
LAT: 48.7135044845
LONG: -122.3440554236



Lake Louise Road Crossing Austin Creek
Culvert Improvements
SW 1/4 NE1/4
S7 T37N R4 E
LAT: 48.7110097610
LONG: -122.3427491985



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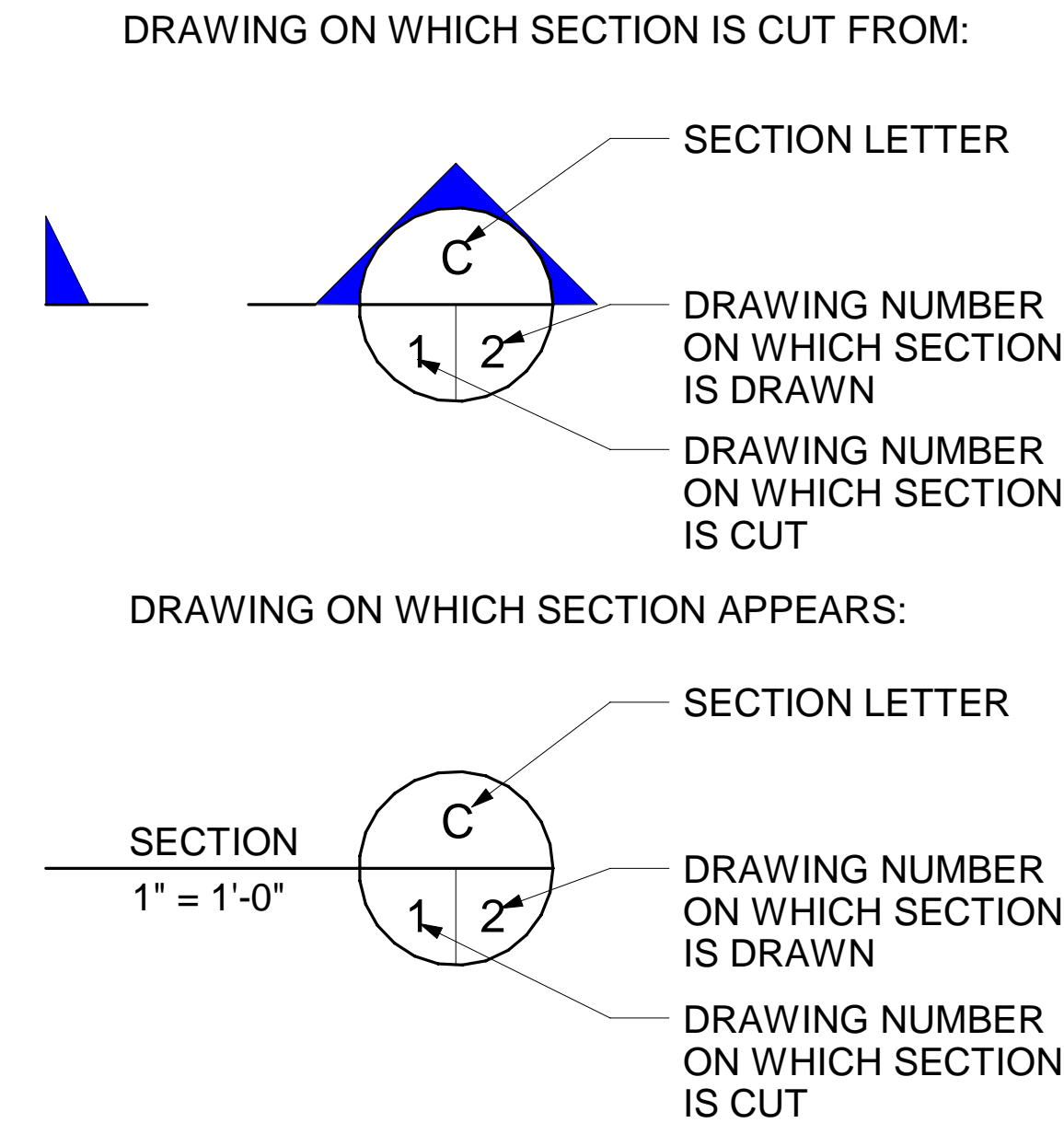
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1" Bar at Original Scale

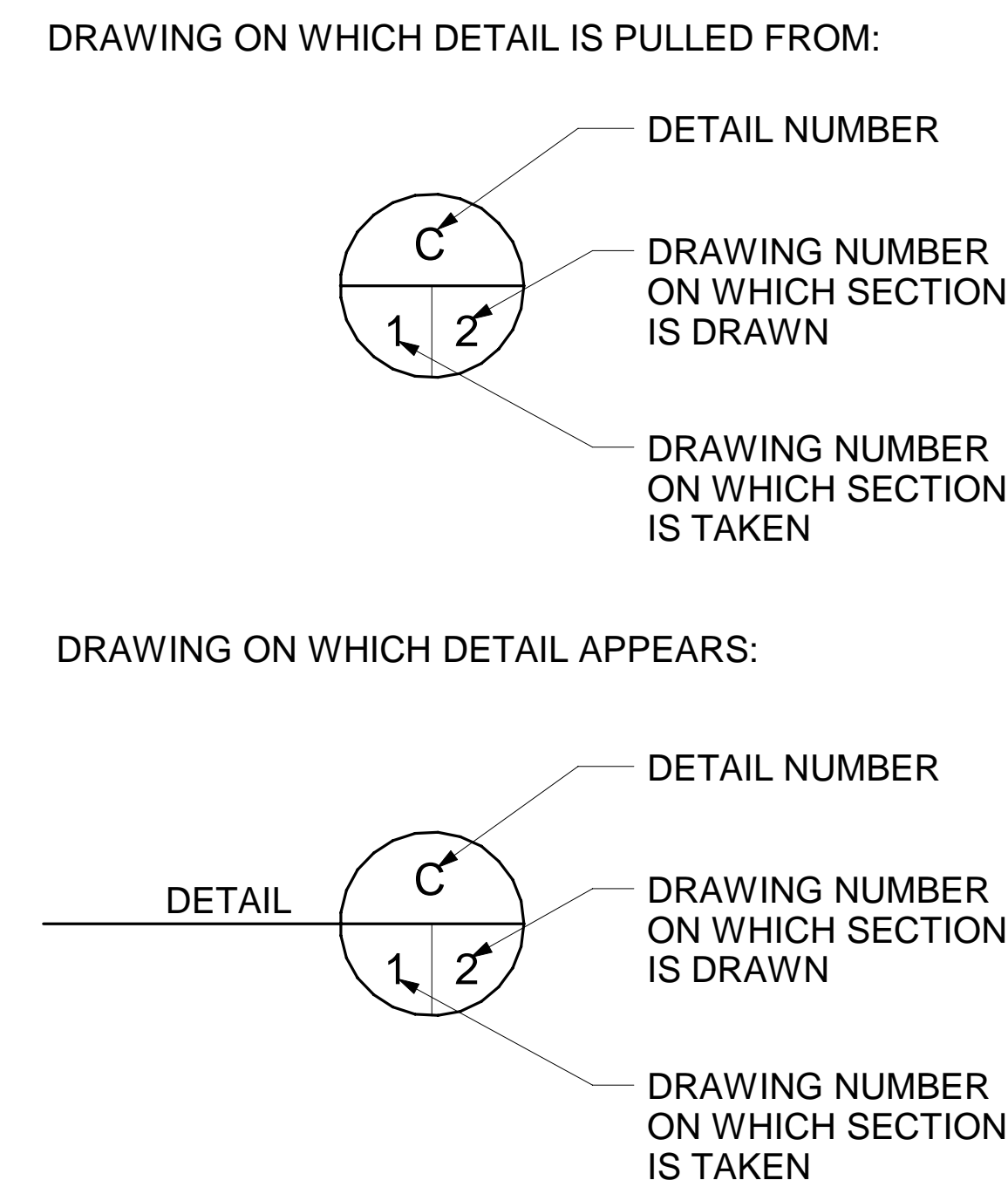
%	PERCENT
&	AND
@	AT
AB	ANCHOR BOLT
ABV	ABOVE
AL	ALUMINUM
ALG	ALONG
ALT	ALTERNATE
ALUM	ALUMINUM
APE	AREA OF POTENTIAL EFFECT
APPROX or ~	APPROXIMATELY
ASPH	ASPHALT
ASSOC	ASSOCIATION
AVG	AVERAGE
BGS	BELOW GROUND SURFACE
BOT	BOTTOM
B.O.F.	BOTTOM OF FOOTING
B.O.P.	BEGINNING OF PROJECT
BF	BUTTERFLY
BFW	BANK FULL WIDTH (CBW)
BLDG	BUILDING
BVC	BEGIN OF VERTICAL CURVE
C	CHANNEL
CBW	CHANNEL BANK WIDTH (BFW)
CIP	CAST-IN-PLACE
CL	CENTER LINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CLEAN OUT
CONC	CONCRETE
CSBC	CRUSHED SURFACING BASE COURSE
CY	CUBIC YARD
DEF	DEFINITION
DESC	DESCRIPTION
DET	DETAIL
DGC	DEFORMABLE GRADE CONTROL
DI	DUCTILE IRON
DIA or Ø	DIAMETER
DIST	DISTRIBUTION OR DISTRIBUTOR
DS	DOWNSTREAM
DWG	DRAWING
E	EAST or EASTING
E.O.P.	END OF PROJECT
EA	EACH
EF	EACH FACE
EL or ELEV	ELEVATION
ELL	ELBOW
EQ or EQUIV	EQUIVALENT
EVC	END VERTICAL CURVE
EW /	EACH WAY
EXIST or EX	EXISTING
FAB	FABRICATOR, ED, TION
FB	FLAT BAR
FCA	FLANGE COUPLING ADAPTER
FF or FIN FLR	FINISH FLOOR
FL	FLOW LINE
FOC	FACE OF CURVE
FT or '	FEET
GALV	GALVANIZED
GB	GRADE BREAK
GS	GROUND SURFACE
HDBOX	HEADBOX
HDG	HOT DIPPED GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
HEX	HEXAGONAL
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN or"	INCHES
INT	INTERSECTION
L	for rebar LONGITUDINAL
L	LENGTH OF CURVE
L	ANGLE IRON
LF	LINEAR FOOT

LG	LONG
LOC	LOCATION
LOD	LARGE ORGANIC DEBRIS
LWD	LARGE WOODY DEBRIS
LP	LOW PRESSURE
LP	LOW POINT
MANUF	MANUFACTURER
MAX	MAXIMUM
MEZZ	MEZZANINE
MH	MANHOLE
MIN	MINIMUM
	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
MUTCD	
N	NORTH or NORTHING
NAF	NEAR AND FAR
NEC	NECESSARY
NIC	NOT IN CONTRACT
NML	NORMAL or NOMINAL
NO or #	NUMBER
NTS	NOT TO SCALE
OHWL	ORDINARY HIGH WATER LEVEL
O.C.	ON CENTER
PBM	PROJECT BENCHMARK
PC	POINT OF CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PL	PLATE
PLCS	PLACES
PROP	PROPOSED
PS	PUMP STATIONPT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
RAD	RADIUS
RAS	RECIRCULATING AQUACULTURE SYSTEM
RD	ROAD
RED	REDUCER
REF	REFERENCE
REINF	REINFORCEMENT
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RW	RACEWAY
S	SOUTH
SC	SQUARE CORNER
SCH or SCHED	SCHEDULE
SPA or SPCS	SPACE OR SPACES
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
T	FOR REBAR TRANSVERSE
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOW	TOP OF WALL
TS	TUBE STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
US	UPSTREAM
VERT	VERTICAL
VIC	VICTAULIC
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W/	WITH
WF	WIDE FLANGE
WT	WIDE TEE STEEL SECTION
WWF	WELDED WIRE FABRIC
	DEFLECTION ANGLE

SECTION INDICATOR:



DETAIL INDICATOR:



LEGEND:

— FNC — FNC —	EXISTING FENCE
- - - 2200 - - -	EXISTING CONTOUR
- - - - -	EXISTING GRAVEL ROAD
— W — W —	EXISTING WATER
— P — P —	EXISTING POWER
— T — T —	EXISTING TELEPHONE
M ○	EXISTING WATER MANHOLE W/ METER
○	EXISTING POWER POLE
○	EXISTING MONITORING WELL
— 2200 —	PROPOSED PRIMARY CONTOUR
— 2200 —	PROPOSED SECONDARY CONTOUR
— FNC — FNC —	FENCE
ASPH	ASPHALT PAVED ROAD
(V)1 2(H) 1:2	SLOPE DESIGNATION
→	FLOW DIRECTION
▭	BUILDING
▭	CATCH BASIN
○	TELEPHONE/POWER RISER
— P — P —	POWER
— W — W —	WATER (POTABLE)
— PW — PW —	PROCESS WATER
— T — T —	TELEPHONE
▭	TRANSVERSE DRAINAGE STRUCTURE
8%	GRADE
▬▬▬	RETAINING WALL

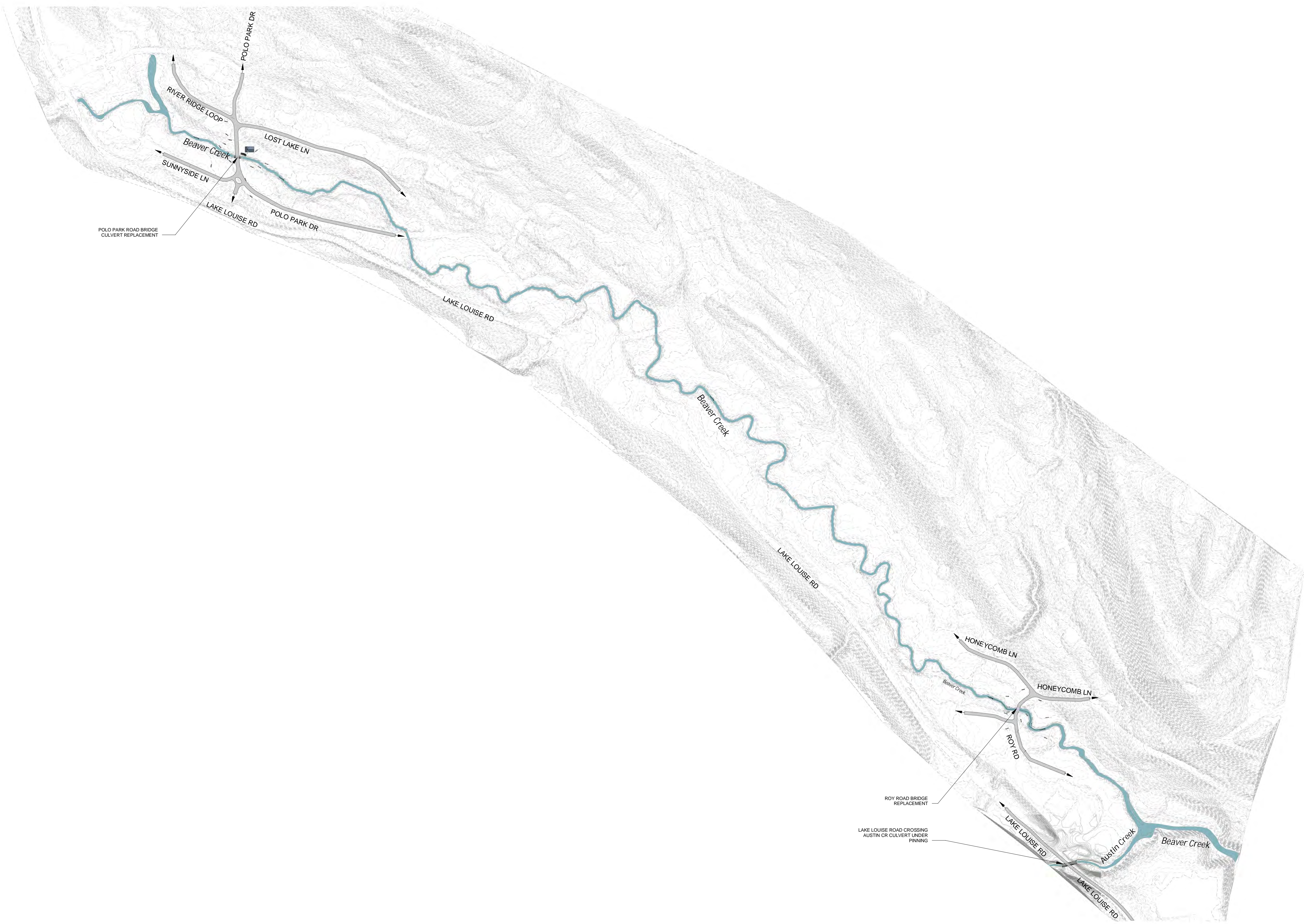


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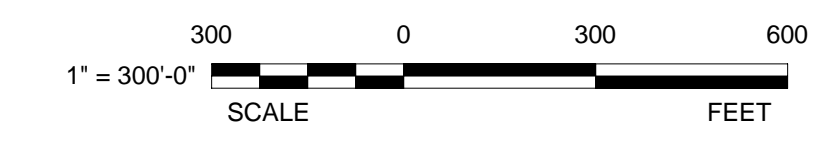


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Site - Existing 1



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C-1
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SHEET TITLE:
Site Plan - Existing

Sudden Valley Community Bridge Replacement and Stream Crossing Improvements 2025

See Sheet C.V.R.2



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1" Bar at Original Scale

Chinook Engineering
 2000 Hillside, WA 98239
 P: 360.672.5258 www.chinookengineering.com



Site - Polo Park Dr Bridge - Proposed

1

1" = 40'-0" SCALE FEET 1" = 40'-0" C-3.1C-2.1



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SHEET TITLE:
 Site Plan - Proposed
 (Polo Park Dr Bridge) -
 Piles

See Sheet C.V.R.2
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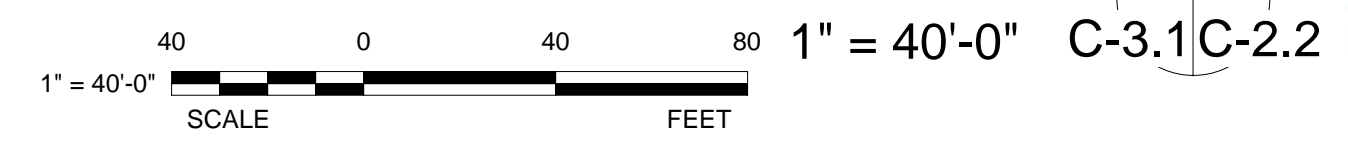
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1" Bar at Original Scale



Site - Roy Rd Bridge - Proposed

1



FILE NO: 24475 / 24476
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SHEET TITLE:
 Site Plan - Proposed
 (Roy Rd Bridge)

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1" Bar at Original Scale

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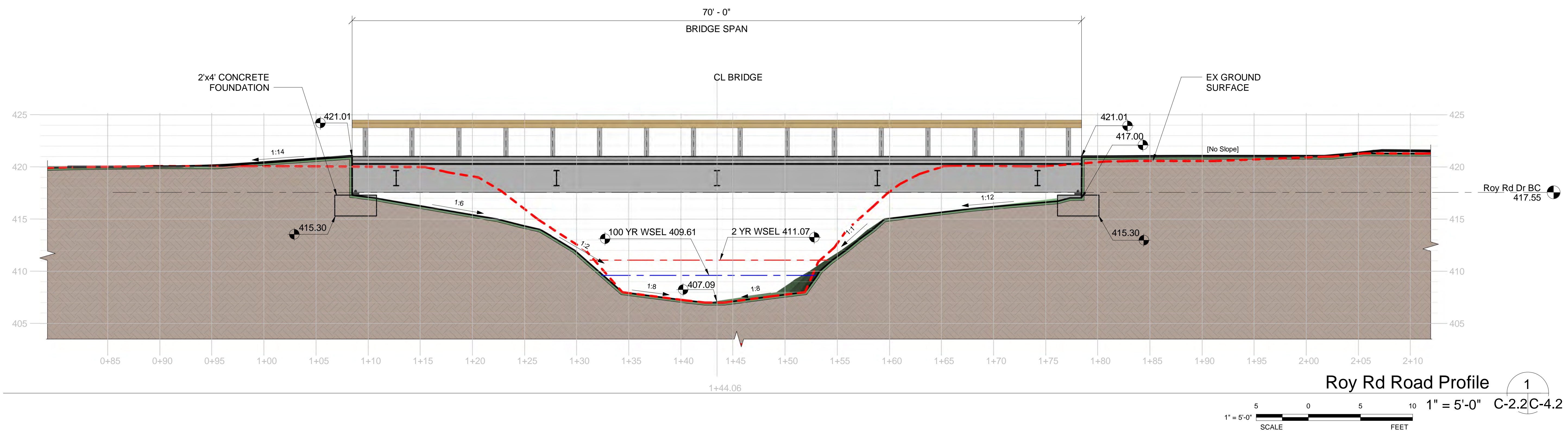


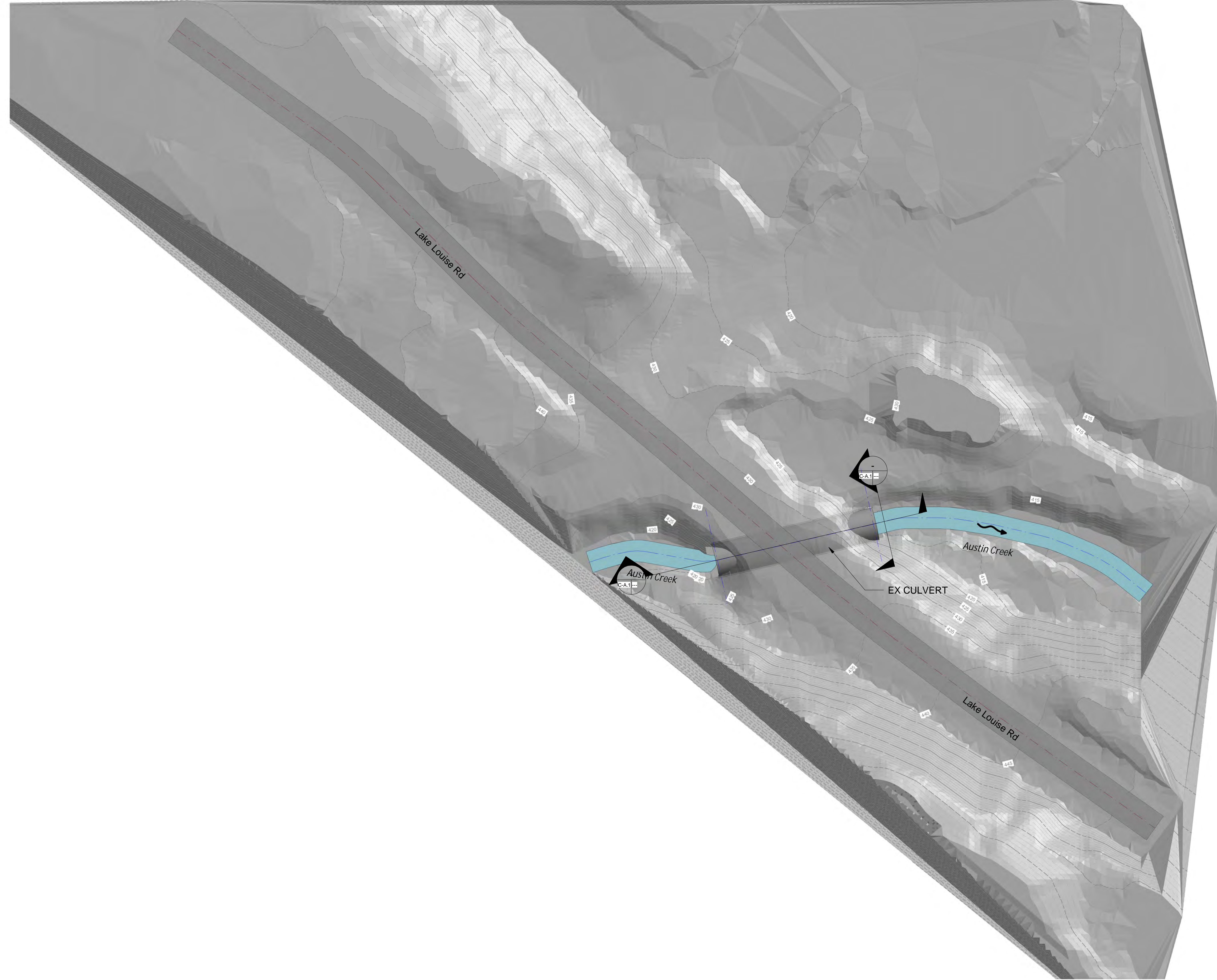
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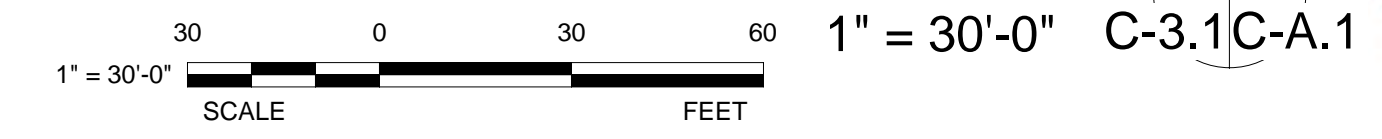
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Site - Existing (Austin Creek)

1



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SHEET TITLE:
 Site Plan - Existing
 (Austin Creek)

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**Sudden Valley Community Bridge
 Replacement and Stream
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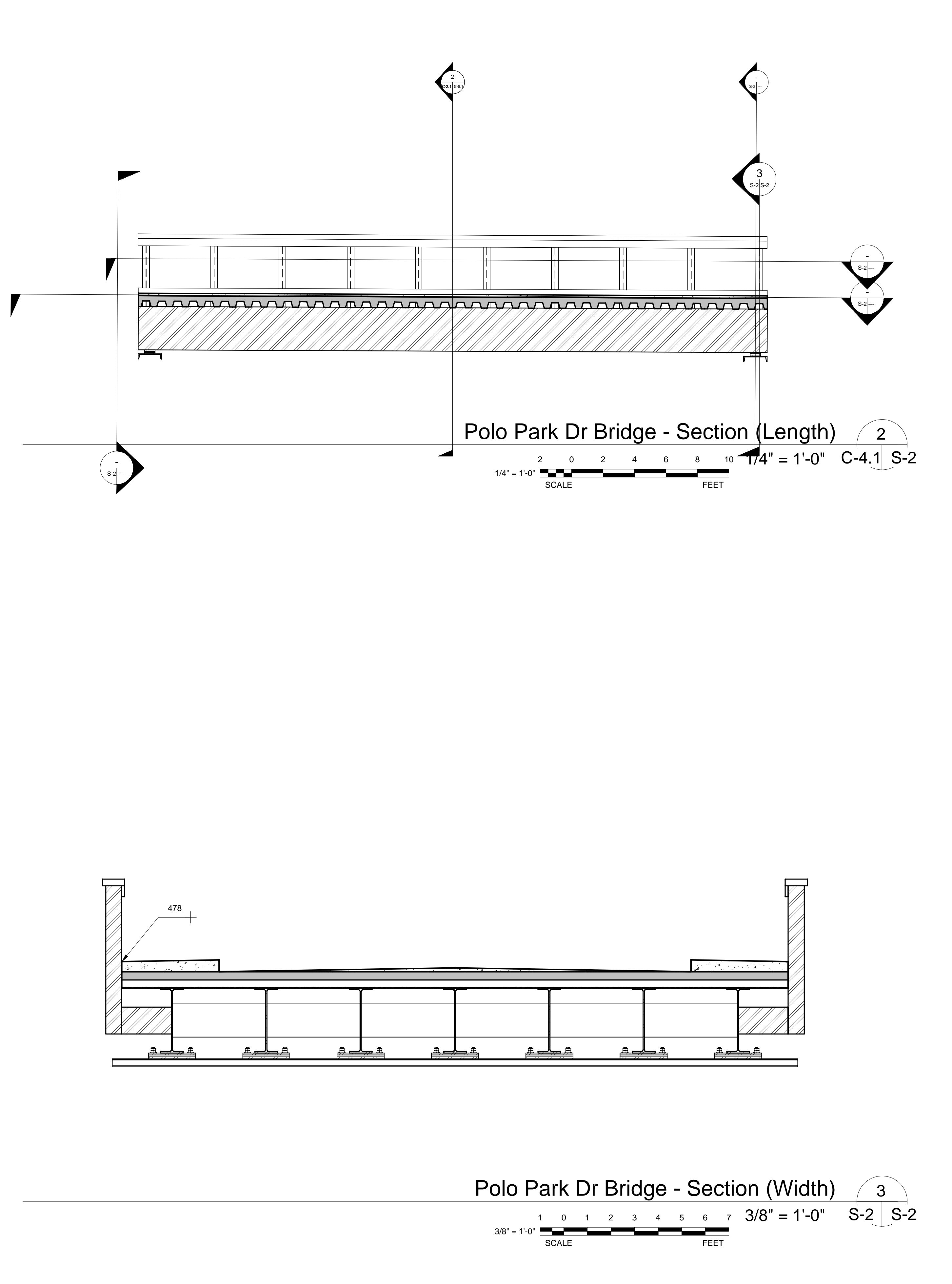
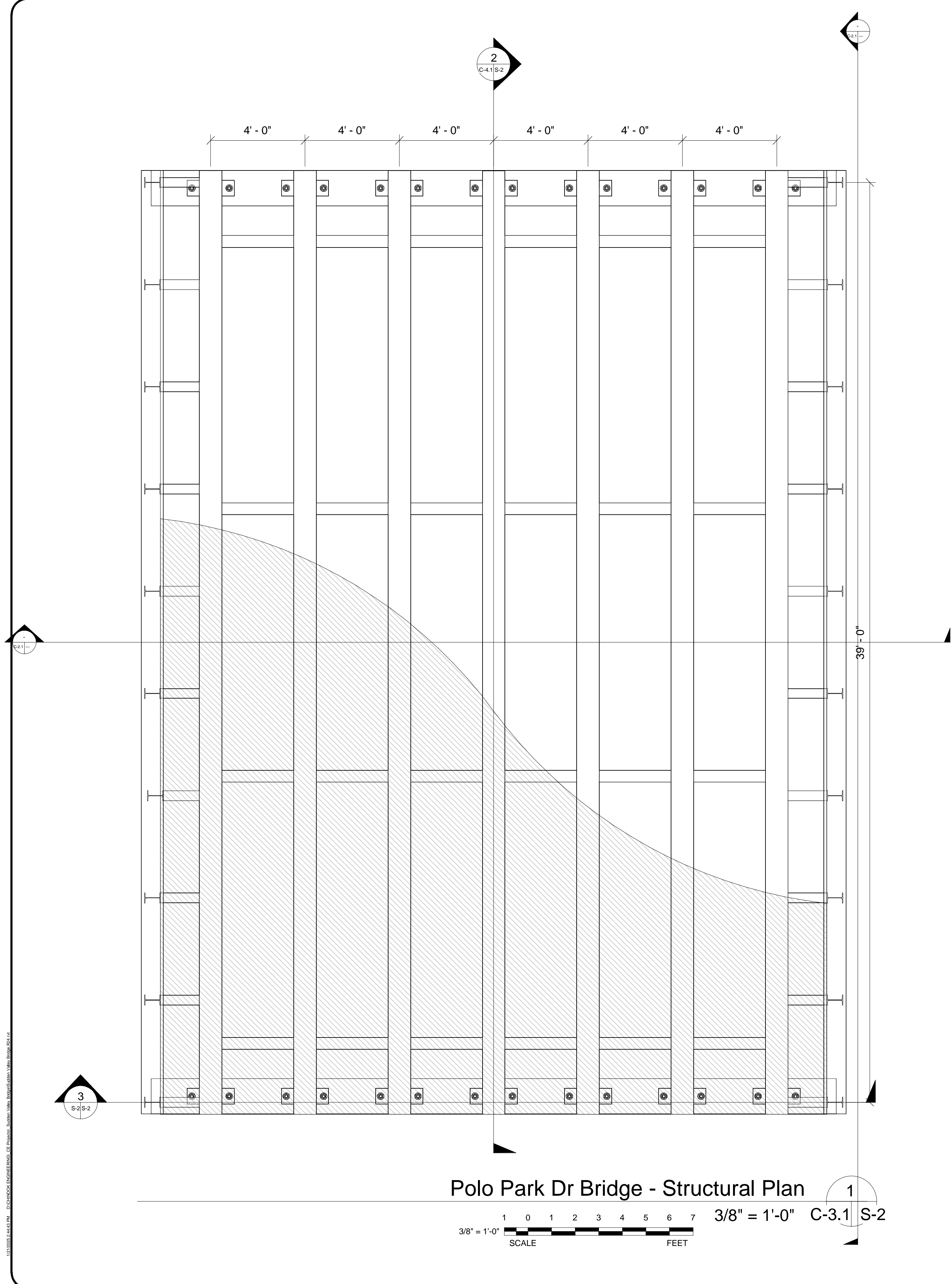
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Chinook Engineering
 21100 1st Avenue
 Cannonville, WA 98239
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C-A.1
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1" Bar at Original Scale

CHINOOK ENGINEERING 21100 1ST AVENUE CANNONVILLE, WA 98239



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 2000 Hillside, WA 98239
 P: 360.672.5268 www.chinookengineering.com

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PRELIMINARY

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Sudden Valley Community Bridge Replacement and Stream Crossing Improvements 2025

SHEET TITLE:
Polo Park Dr Bridge Details

FILE NO:	SCALE:	DATE:	DRAWN BY:	CHECKED BY:
24475 / 24476	AS INDICATED	01/21/2024	ER	JSK

SHEET NUMBER:
S-2
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1" Bar at Original Scale

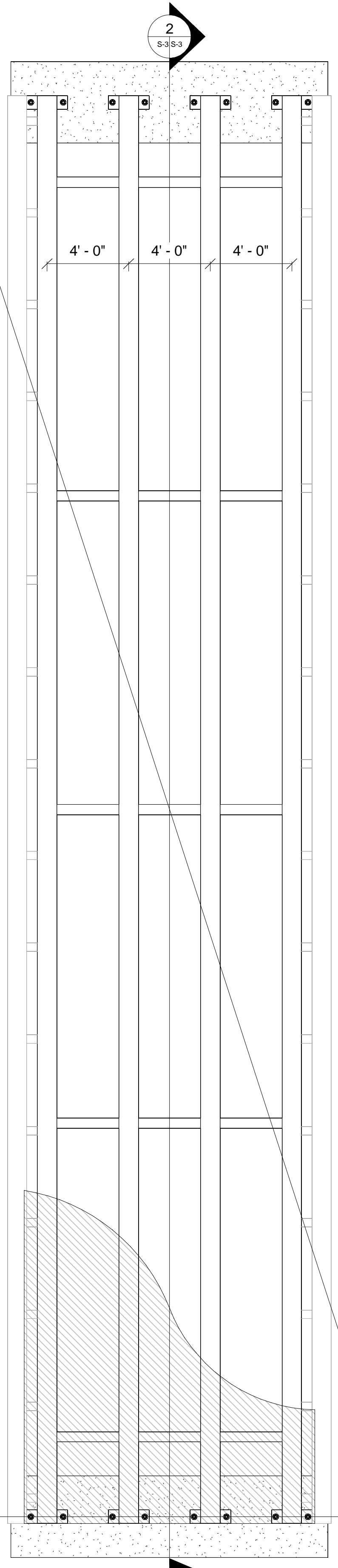
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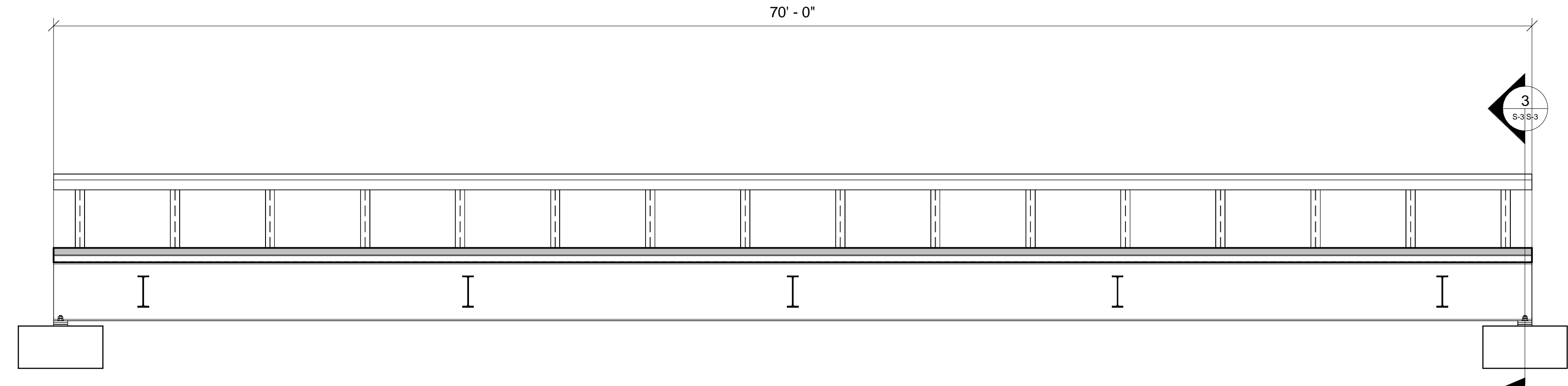
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SHEET TITLE:	
Roy Rd Bridge Details	
FILE NO: 24475 / 24476	SHEET NUMBER:
SCALE: AS INDICATED	S-3
DATE: 01/21/2024	18 OF 18
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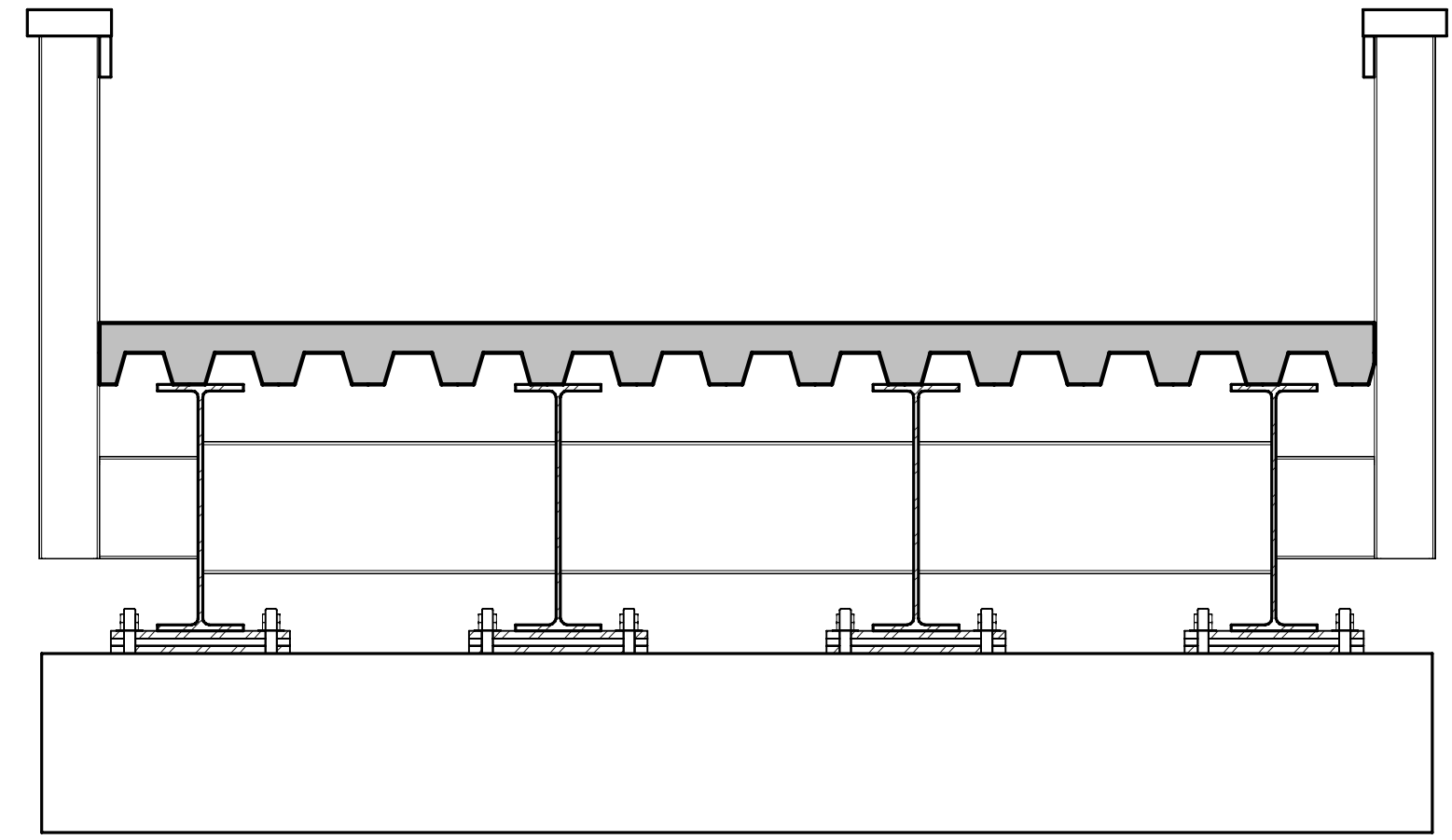
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S-3
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Roy Rd Bridge - Structural Plan 1
 1/4" = 1'-0" SCALE FEET 1/4" = 1'-0" C-3.1 S-3



Roy Rd Bridge - Section (Length) 2
 1/4" = 1'-0" SCALE FEET 1/4" = 1'-0" S-3 S-3



Roy Rd Bridge - Section (Width) 3
 1/4" = 1'-0" SCALE FEET 1/2" = 1'-0" S-3 S-3

1" Bar at Original Scale