



Project Location: Island County, WA



Know what's below.
Call before you dig.

RACE LAGOON RACE ROAD FISH PASSAGE - CULVERT 1894 REPLACEMENT ALTERNATIVE ALIGNMENTS, RCO 22-1089

PREPARED BY

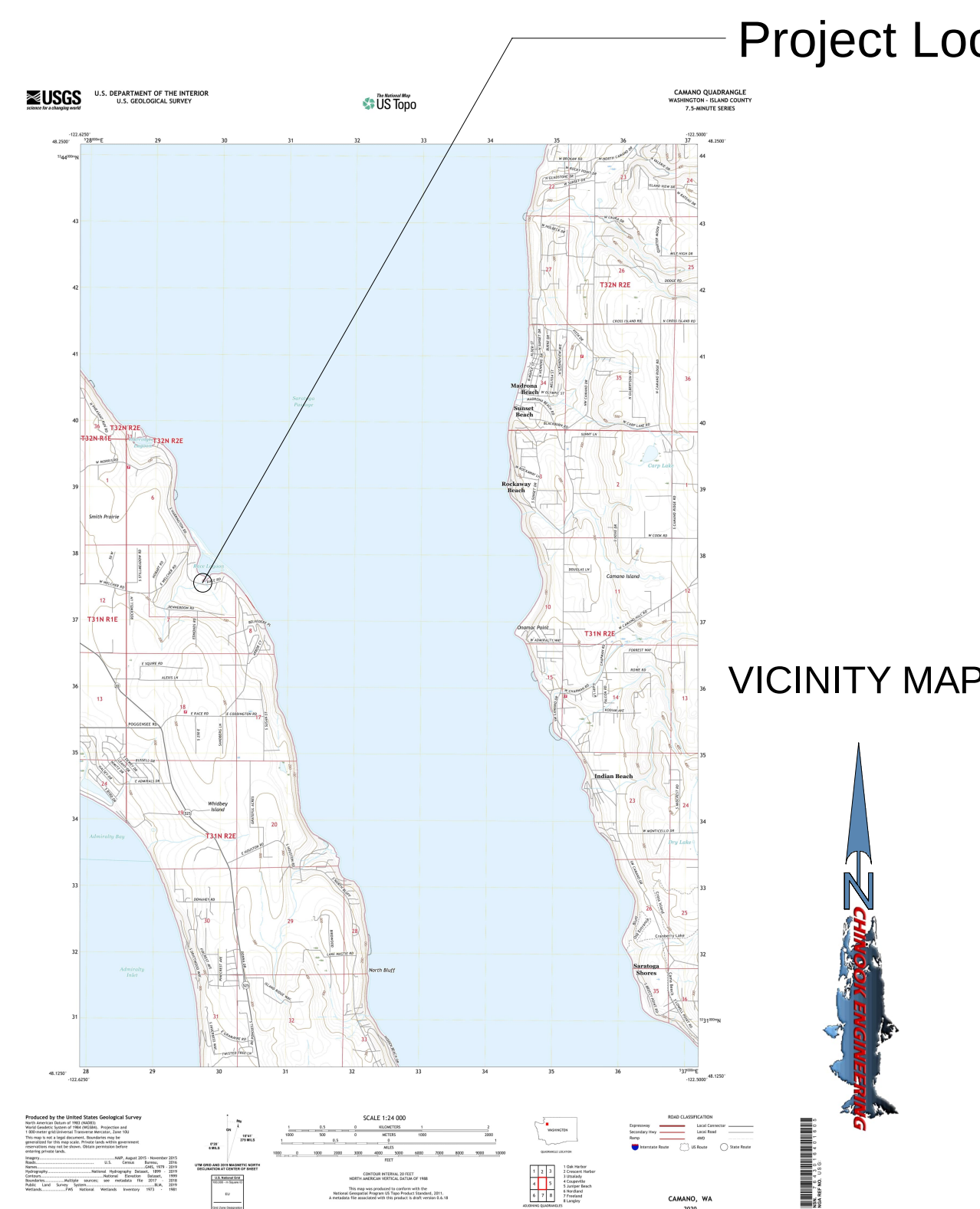


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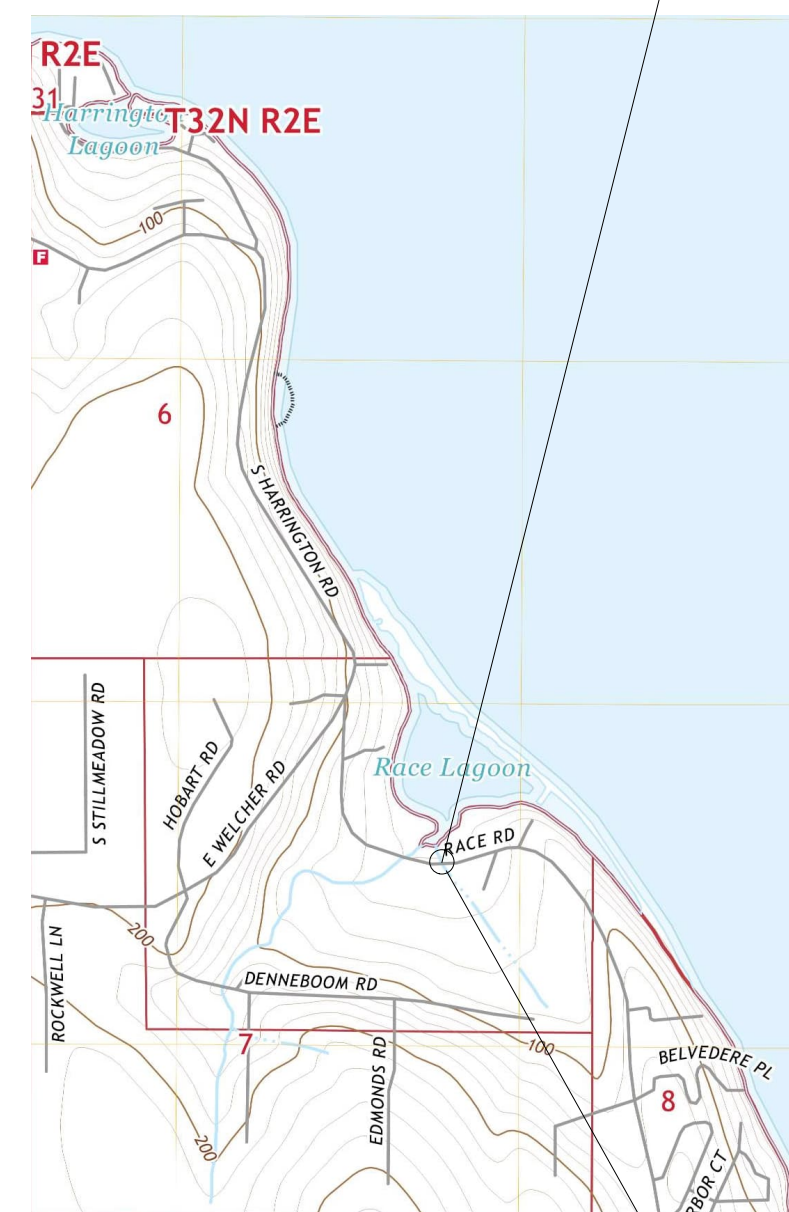
PREPARED FOR:



**SKAGIT FISHERIES
ENHANCEMENT
GROUP**



Project Location



Project Locations:
Section 7, T32N R2E
East Culvert 1894: LAT: 48.190339, LON: -122.599497
Island County

1894 East

Project Manager

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APPROVED AT CHINOOK ENGINEERING: 08/30/2024
DATE

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REV	DATE	ISSUE	BY
1	02/08/2024	Preliminary Submittal	JSK
2	04/10/2024	Issued For Review Panel	JSK
3	08/30/2024	Issued For Alternative Review	JSK

1" Bar at Original Scale



Enter address here
**Race Road Culvert Replacement
1894 Alternative Alignments**

SHEET TITLE:
Cover Sheet

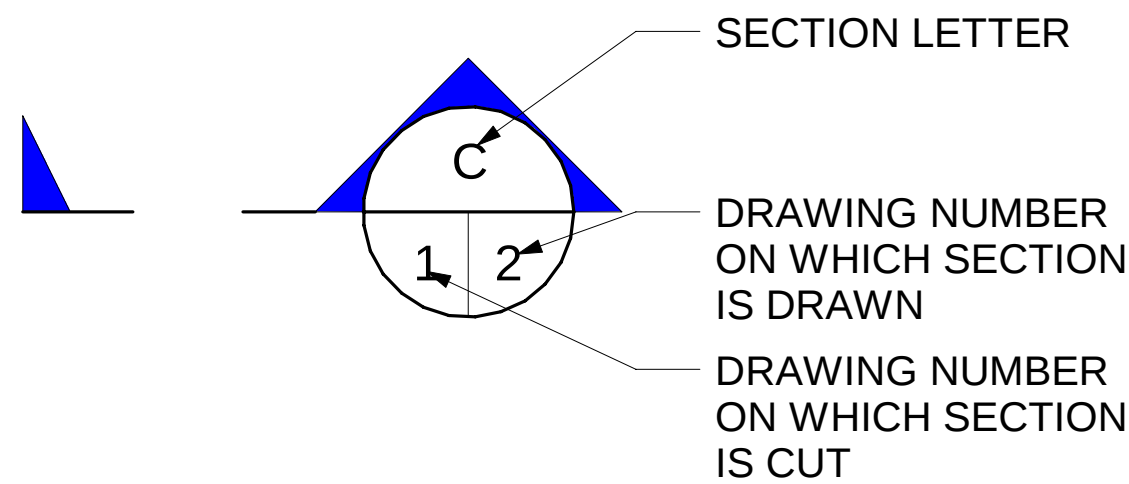
FILE NO: 22457	SCALE: AS INDICATED	DATE: 08/30/2024	DRAWN BY: ER	CHECKED BY: JSK
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SHEET NUMBER:
CVR
1 OF 6

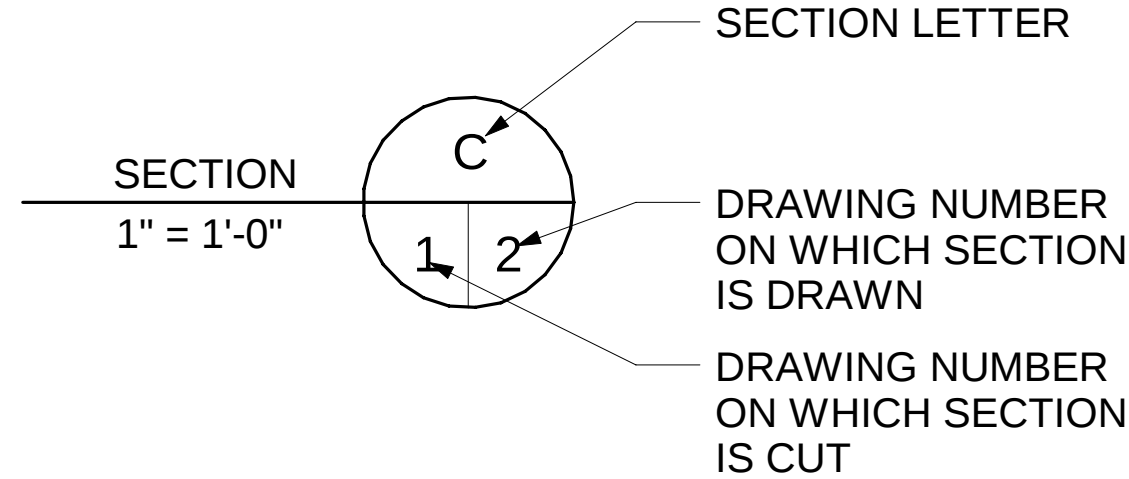
%	PERCENT	LG	LONG
&	AND	LOC	LOCATION
@	AT	LOD	LARGE ORGANIC DEBRIS
AB	ANCHOR BOLT	LWD	LARGE WOODY DEBRIS
ABV	ABOVE	LP	LOW PRESSURE
AL	ALUMINUM	LP	LOW POINT
ALG	ALONG	MANUF	MANUFACTURER
ALT	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MEZZ	MEZZANINE
APE	AREA OF POTENTIAL EFFECT	MH	MANHOLE
APPROX or ~	APPROXIMATELY	MIN	MINIMUM
ASPH	ASPHALT		MANUAL ON UNIFORM TRAFFIC
ASSOC	ASSOCIATION	MUTCD	CONTROL DEVICES FOR
AVG	AVERAGE		STREETS AND HIGHWAYS
BGS	BELOW GROUND SURFACE	N	NORTH or NORTHING
BOT	BOTTOM	NAF	NEAR AND FAR
B.O.F.	BOTTOM OF FOOTING	NEC	NECESSARY
B.O.P.	BEGINNING OF PROJECT	NIC	NOT IN CONTRACT
BF	BUTTERFLY	NML	NORMAL or NOMINAL
BFW	BANK FULL WIDTH (CBW)	NO or #	NUMBER
BLDG	BUILDING	NTS	NOT TO SCALE
BVC	BEGIN OF VERTICAL CURVE	OHWL	ORDINARY HIGH WATER LEVEL
C	CHANNEL	O.C.	ON CENTER
CBW	CHANNEL BANK WIDTH (BFW)	PBM	PROJECT BENCHMARK
CIP	CAST-IN-PLACE	PC	POINT OF CURVATURE
CL	CENTER LINE	PE	POLYETHYLENE
CLR	CLEAR	PERF	PERFORATED
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
CONC	CLEAN OUT	PL	PLATE
CONC	CONCRETE	PLCS	PLACES
CSBC	CRUSHED SURFACING BASE COURSE	PROP	PROPOSED
CY	CUBIC YARD	PS	PUMP STATIONPT
DEF	DEFINITION	PT	POINT OF TANGENCY
DESC	DESCRIPTION	PVC	POINT OF VERTICAL CURVE
DET	DETAIL	RAD	RADIUS
DGC	DEFORMABLE GRADE CONTROL	RAS	RECIRCULATING AQUACULTURE SYSTEM
DI	DUCTILE IRON	RD	ROAD
DIA or Ø	DIAMETER	RED	REDUCER
DIST	DISTRIBUTION OR DISTRIBUTOR	REF	REFERENCE
DS	DOWNSTREAM	REINF	REINFORCEMENT
DWG	DRAWING	REQ'D	REQUIRED
E	EAST or EASTING	ROW	RIGHT OF WAY
E.O.P.	END OF PROJECT	RW	RACEWAY
EA	EACH	S	SOUTH
EF	EACH FACE	SC	SQUARE CORNER
EL or ELEV	ELEVATION	SCH or SCHED	SCHEDULE
ELL	ELBOW	SPA or SPCS	SPACE OR SPACES
EQ or EQUIV	EQUIVALENT	SPEC	SPECIFICATIONS
EVC	END VERTICAL CURVE	SS	STAINLESS STEEL
EW /	EACH WAY	STA	STATION
EXIST or EX	EXISTING	STD	STANDARD
FAB	FABRICATOR, ED, TION	STL	STEEL
FB	FLAT BAR	T	FOR REBAR TRANSVERSE
FCA	FLANGE COUPLING ADAPTER	TEMP	TEMPERATURE
FF or FIN FLR	FINISH FLOOR	TOC	TOP OF CONCRETE
FL	FLOW LINE	TOF	TOP OF FOOTING
FOC	FACE OF CURVE	TOS	TOP OF SLAB
FT or '	FEET	TOW	TOP OF WALL
GALV	GALVANIZED	TS	TUBE STEEL
GB	GRADE BREAK	TYP	TYPICAL
GS	GROUND SURFACE	UON	UNLESS OTHERWISE NOTED
HDBOX	HEADBOX	US	UPSTREAM
HDG	HOT DIPPED GALVANIZED	VERT	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE	VIC	VICTAULIC
HEX	HEXAGONAL	VPC	VERTICAL POINT OF CURVATURE
HORIZ	HORIZONTAL	VPI	VERTICAL POINT OF INTERSECTION
HP	HIGH PRESSURE	VPT	VERTICAL POINT OF TANGENCY
ID	INSIDE DIAMETER	W/	WITH
IE	INVERT ELEVATION	WF	WIDE FLANGE
IN or"	INCHES	WT	WIDE TEE STEEL SECTION
INT	INTERSECTION	WWF	WELDED WIRE FABRIC
L	for rebar LONGITUDINAL		DEFLECTION ANGLE
L	LENGTH OF CURVE		
L	ANGLE IRON		
LF	LINEAR FOOT		

SECTION INDICATOR:

DRAWING ON WHICH SECTION IS CUT FROM:

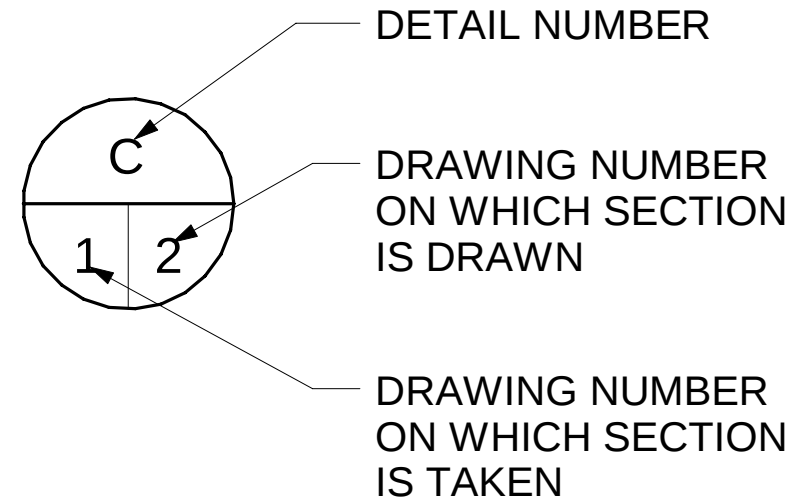


DRAWING ON WHICH SECTION APPEARS:

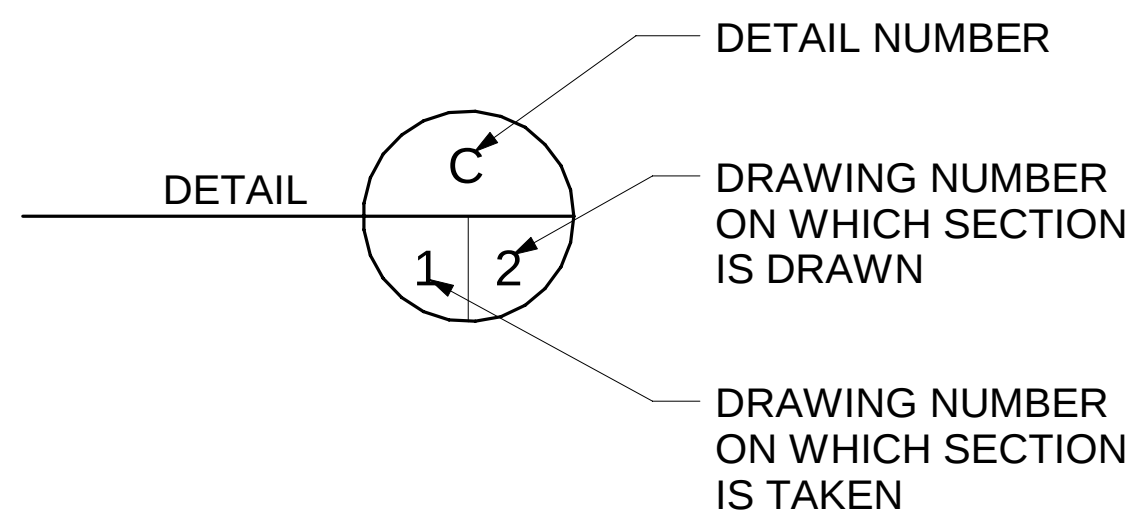


DETAIL INDICATOR:

DRAWING ON WHICH DETAIL IS PULLED FROM:



DRAWING ON WHICH DETAIL APPEARS:



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
— — — — —	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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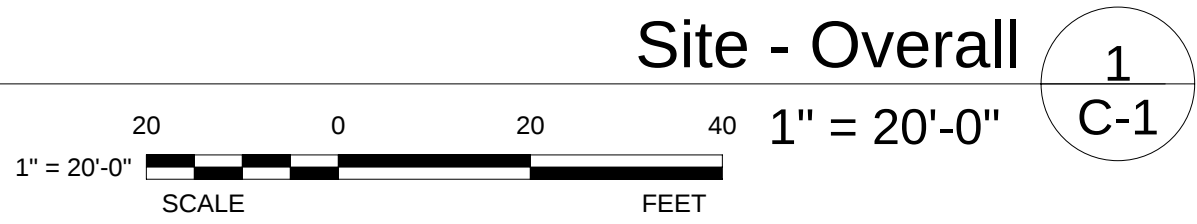
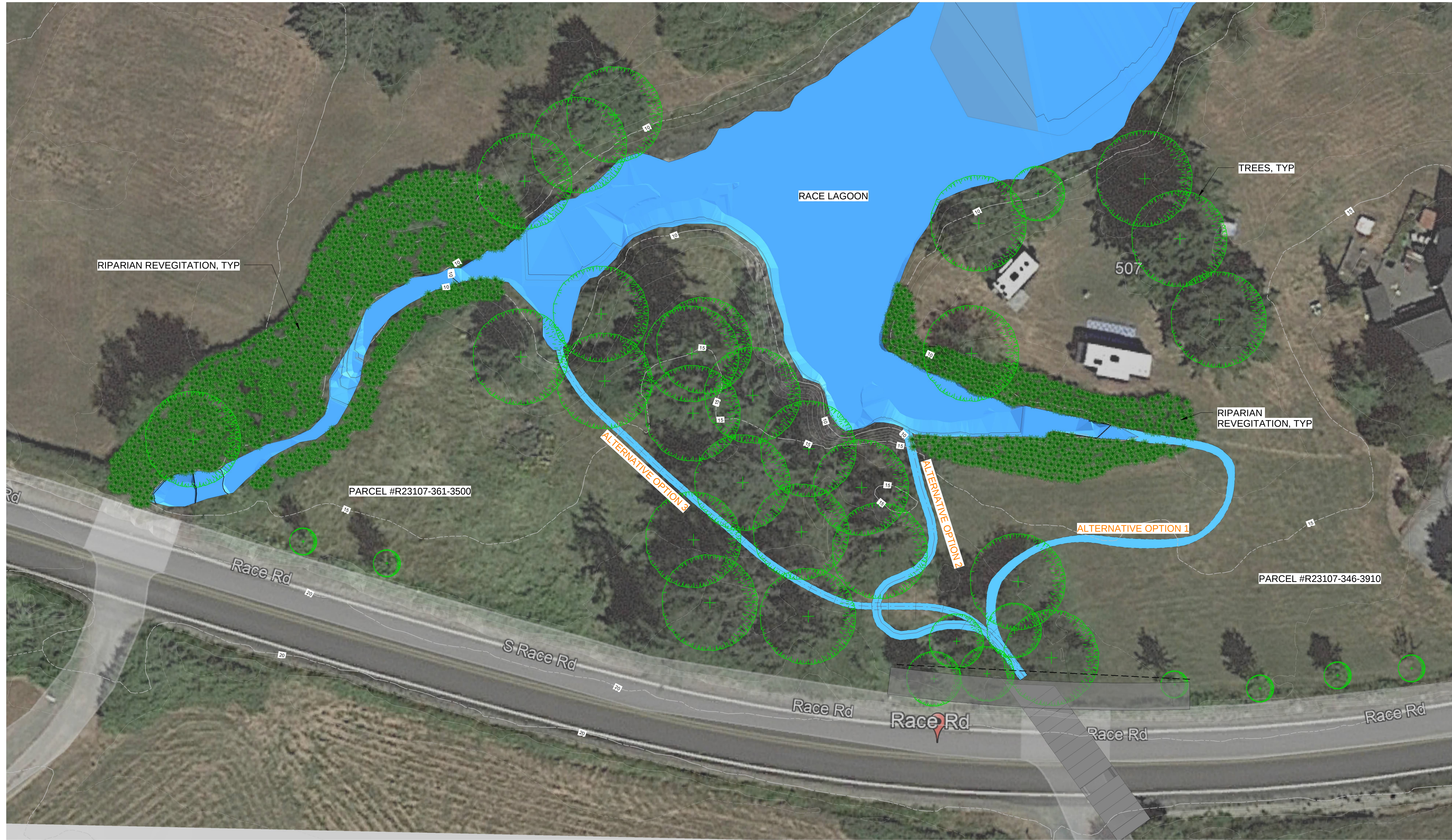
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1894 Alternative Alignments**

FILE NO:	22457	SHEET TITLE:	Abbreviations
SCALE:	AS INDICATED	DATE:	09/30/2024
DRAWN BY:	ER	CHECKED BY:	JSK

SHEET NUMBER:
ABBV
2 OF 6

1" Bar at Original Scale



SHEET NUMBER:
C-1
3 OF 6

FILE NO: 22457
SCALE: AS INDICATED
DATE: 09/30/2024
DRAWN BY: ER
CHECKED BY: JSK

SHEET TITLE:
Site Plan - Alternatives

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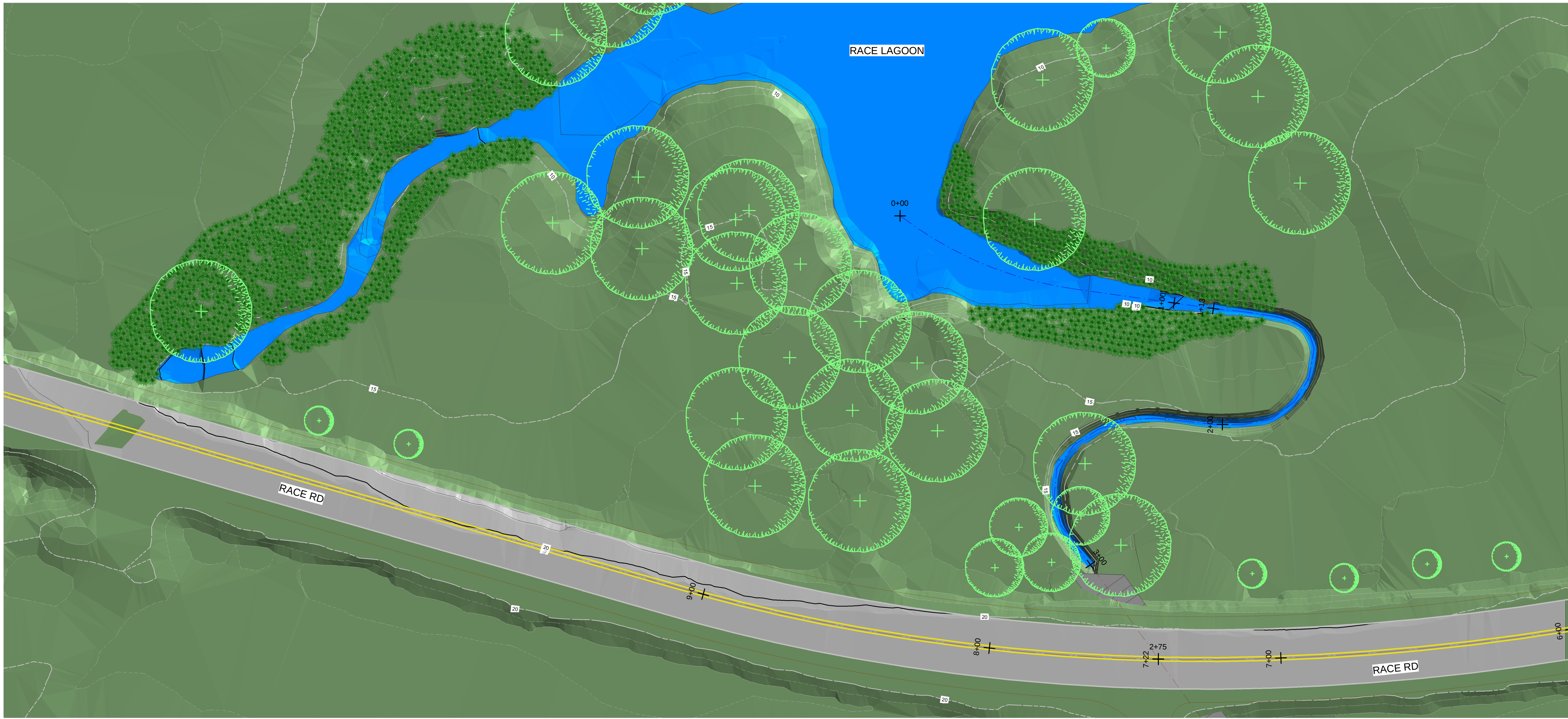
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1894 Alternative Alignments**



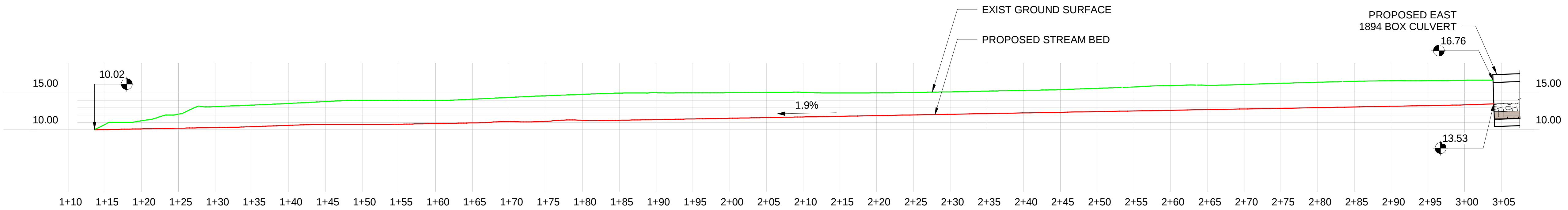
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1" Bar at Original Scale



Alternative Option 1 - Plan View
1
1" = 20'-0" C-1.1



Alternative Option 1 - Channel Profile
2
1/8" = 1'-0" C-1.1

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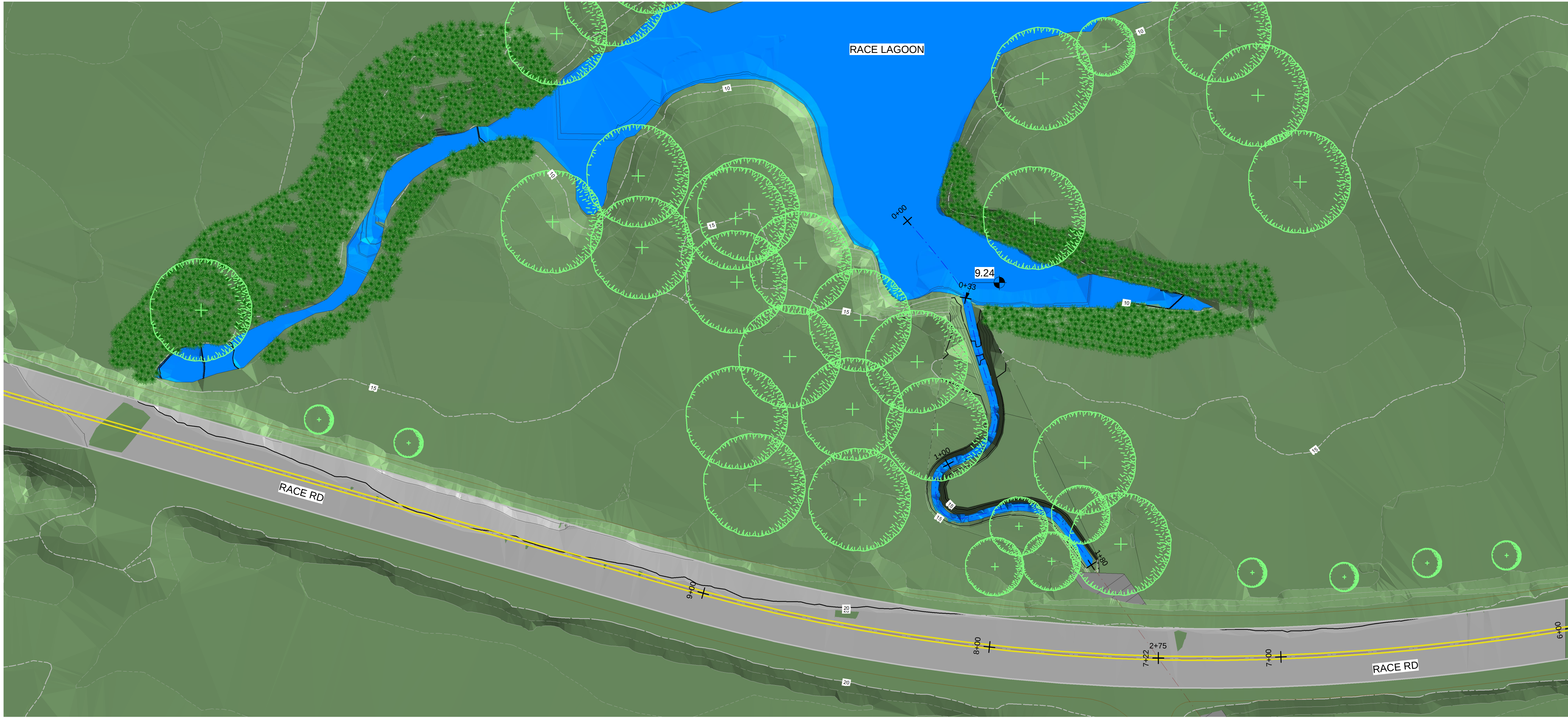
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Race Road Culvert Replacement
1894 Alternative Alignments

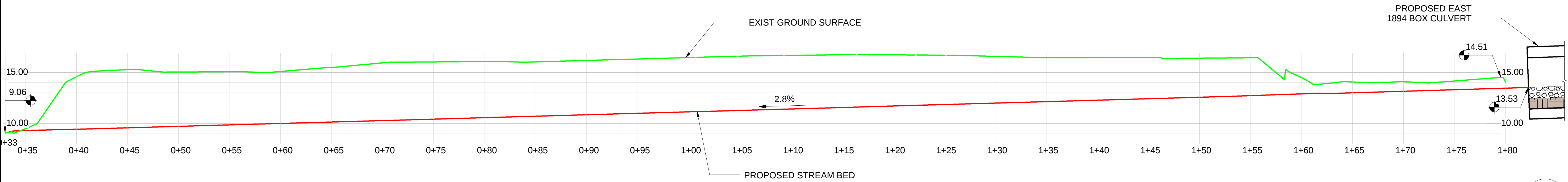
SHEET TITLE:
Alternative Option 1

FILE NO:	22457	SCALE:	AS INDICATED	DATE:	09/30/2024	DRAWN BY:	ER	CHECKED BY:	JSK
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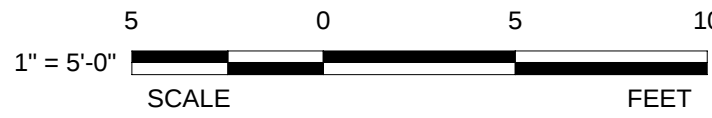
SHEET NUMBER:
C-1.1
4 OF 6



Alternative Option 2 - Plan View 1
1" = 20'-0" C-1.2



Alternative Option 2 - Channel Profile 2
1" = 5'-0" C-1.2



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Race Road Culvert Replacement

1894 Alternative Alignments

SHEET TITLE:
Alternative Option 2

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SHEET NUMBER:
C-1.2
5 OF 6

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1" Bar at Original Scale

