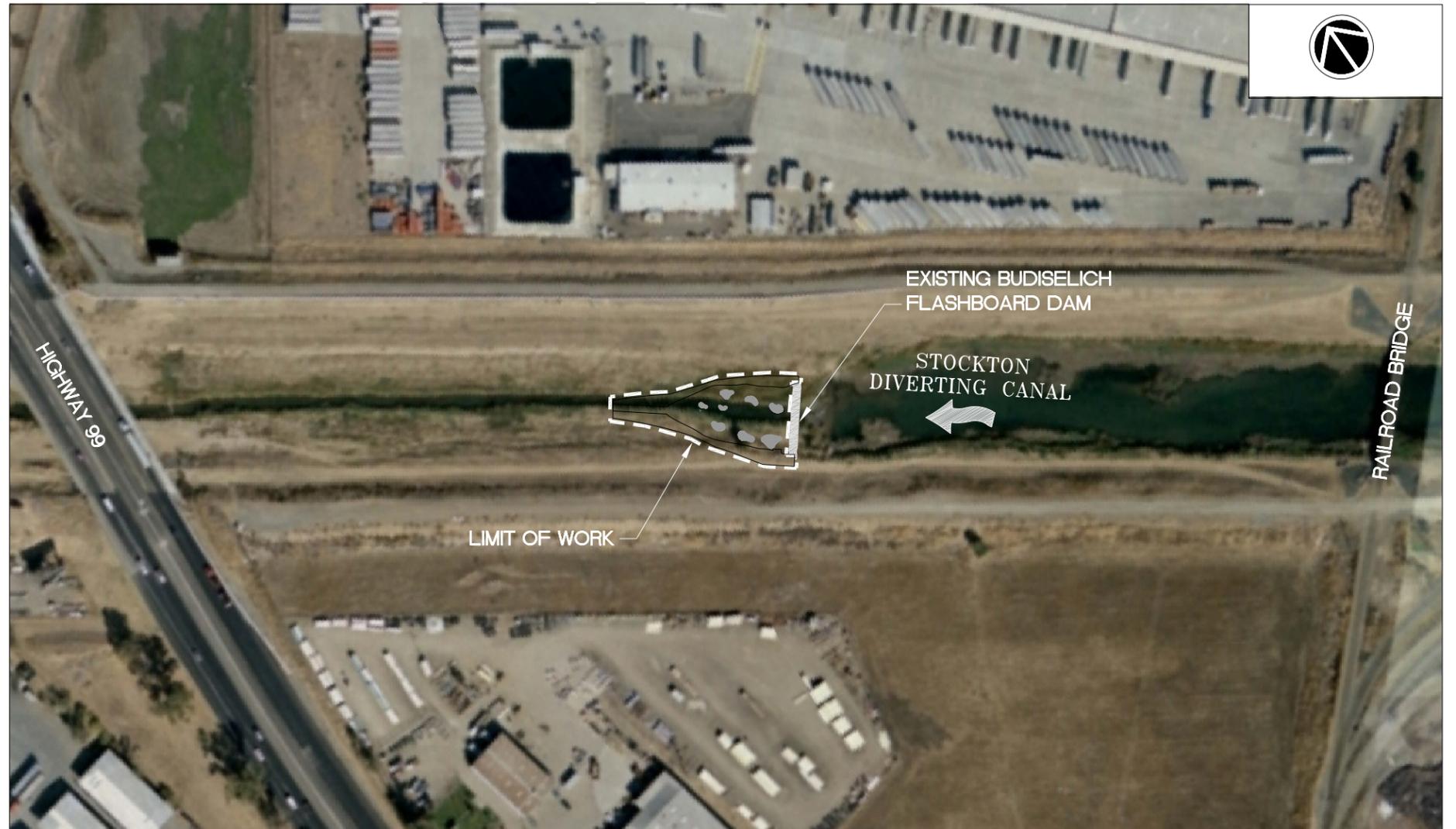


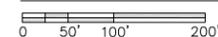
BUDISELICH FLASHBOARD DAM FISH PASSAGE IMPROVEMENT PROJECT CONSTRUCTION SET



VICINITY MAP
NOT TO SCALE



PROJECT OVERVIEW



SHEET INDEX

- C1 COVER SHEET
- C2 EXISTING CONDITIONS BASEMAP
- C3 CHANNEL PLAN & PROFILE
- C4 DETAILS
- C5 SECTIONS 1 OF 2
- C6 SECTIONS 2 OF 2

ABBREVIATIONS

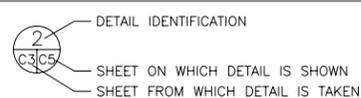
AB	AGGREGATE BASE	L	LENGTH
APN	ASSESSOR'S PARCEL NUMBER	LF	LINEAR FEET
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CMP	CORRUGATED METAL PIPE	(N)	NEW
CC	CONCRETE	NTS	NOT TO SCALE
CY	CUBIC YARD	R	RADIUS
DIA	DIAMETER	RD	ROAD
(E)	EXISTING	RSP	ROCK SLOPE PROTECTION
EG	EXISTING GROUND	SHT	SHEET
EL	ELEVATION	STA	STATION
EP	EDGE OF PAVEMENT	TBD	TO BE DETERMINED
ESM	ENGINEERED STREAMBED MATERIAL	TEMP	TEMPORARY
FG	FINISHED GRADE	TYP	TYPICAL
H	HORIZONTAL	V	VERTICAL
ID	INSIDE DIAMETER		

NOTES

PLANS PREPARED BY:
CALIFORNIA DEPARTMENT OF WATER
RESOURCES, FISH PASSAGE IMPROVEMENT
PROGRAM

IN PARTNERSHIP WITH:
STOCKTON EAST WATER DISTRICT

DETAIL REFERENCE CONVENTION



LEGEND

EXISTING GROUND CONTOURS	-498 -500 -502
FINISHED GRADE CONTOURS	-498 -500 -502
SURVEYED POINT	488.68 (DESCRIPTION)

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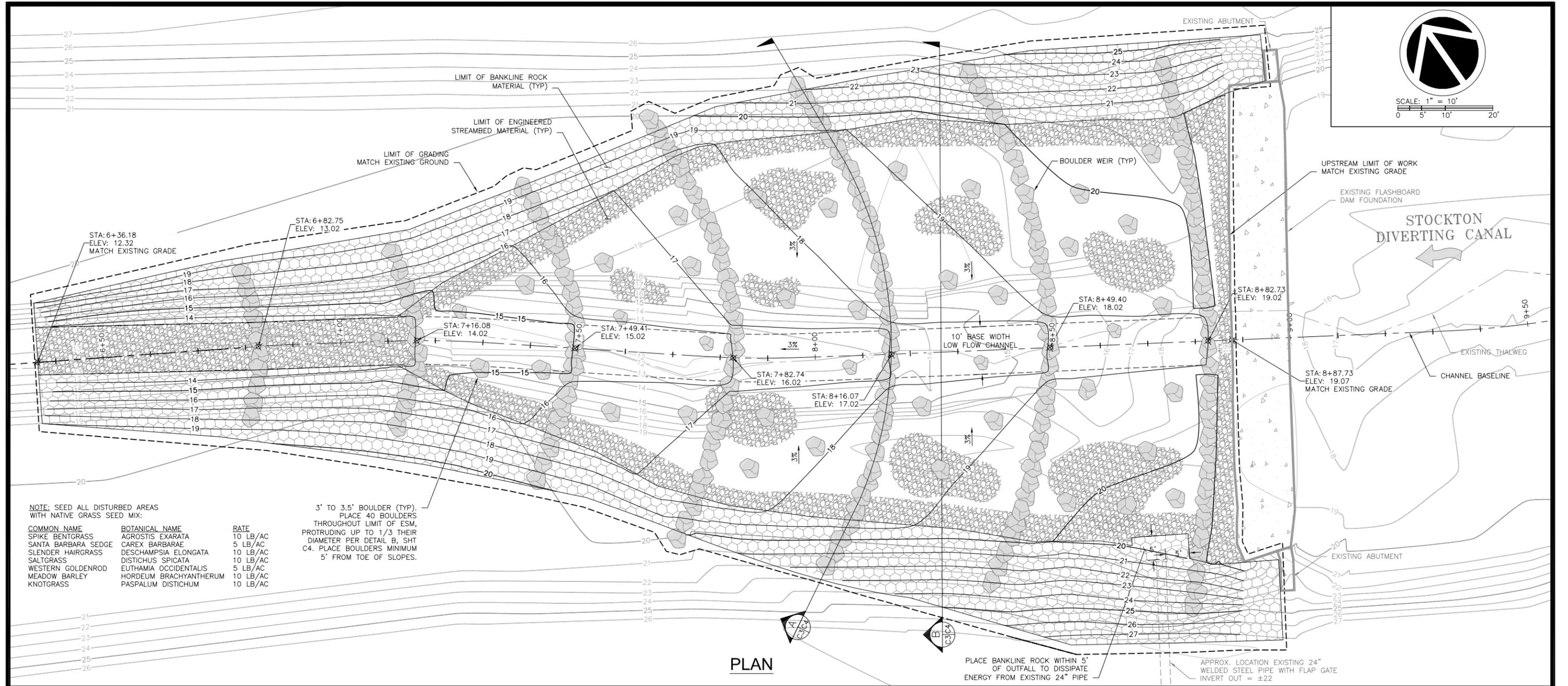
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COVER SHEET
**BUDISELICH FLASHBOARD DAM
FISH PASSAGE IMPROVEMENT PROJECT
FINAL DESIGN**

CONSTRUCTION SET
BAR IS ONE INCH
ON ORIGINAL
DRAWINGS; ADJUST
SCALE FOR
REDUCED PLOTS
DATE: 09.09.2011
DRAWN BY: CH
CHECKED BY: RB & TG
SHEET: **C1**



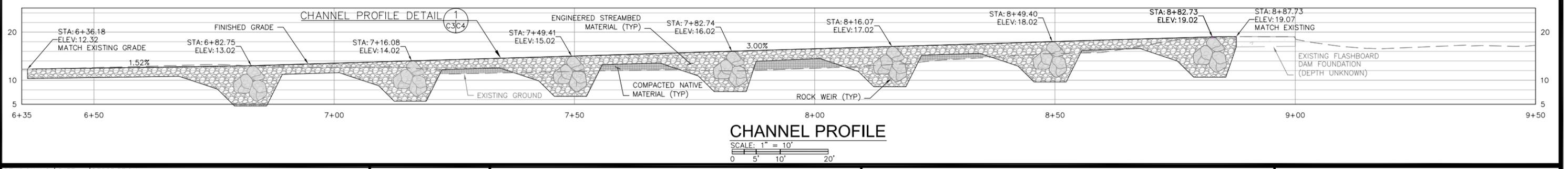
NOTE: SEED ALL DISTURBED AREAS WITH NATIVE GRASS SEED MIX:

COMMON NAME	BOTANICAL NAME	RATE
SPIKE BENTGRASS	AGROSTIS EXARATA	10 LB/AC
SANTA BARBARA SEDGE	CAREX BARBARAE	5 LB/AC
SLENDER HAIRGRASS	DESCHAMPSIA ELONGATA	10 LB/AC
SALTGRASS	DISTICHUS SPICATA	10 LB/AC
WESTERN GOLDENROD	EUTHAMIA OCCIDENTALIS	5 LB/AC
MEADOW BARLEY	HORDEUM BRACHYANTHERUM	10 LB/AC
KNOTGRASS	PASPALUM DISTICHUM	10 LB/AC

3' TO 3.5' BOULDER (TYP). PLACE 40 BOULDERS THROUGHOUT LIMIT OF ESM, PROTRUDING UP TO 1/3 THEIR DIAMETER PER DETAIL B, SHT C4. PLACE BOULDERS MINIMUM 5' FROM TOE OF SLOPES.

PLACE BANKLINE ROCK WITHIN 5' OF OUTFALL TO DISSIPATE ENERGY FROM EXISTING 24" PIPE

APPROX. LOCATION EXISTING 24" WELDED STEEL PIPE WITH FLAP GATE INVERT OUT = ±22



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CHANNEL PLAN & PROFILE

BUDISELICH FLASHBOARD DAM FISH PASSAGE IMPROVEMENT PROJECT

FINAL DESIGN

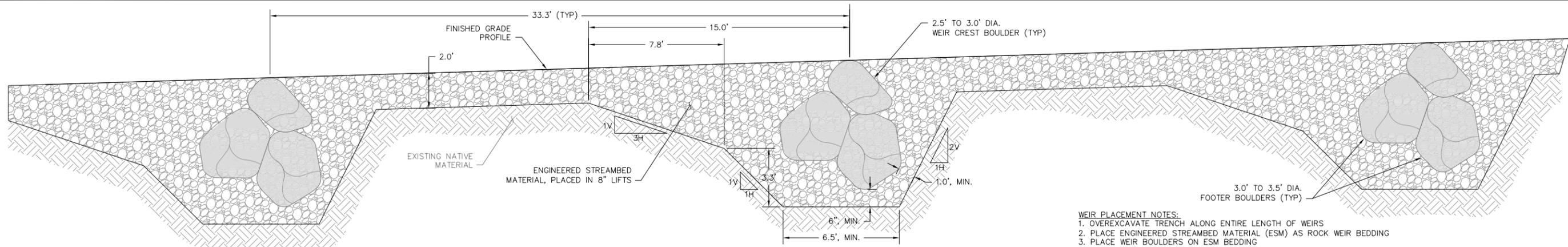
CONSTRUCTION SET

BAR IS ONE INCH ON ORIGINAL DRAWINGS; ADJUST SCALE FOR REDUCED PLOTS

DATE: 09.09.2011

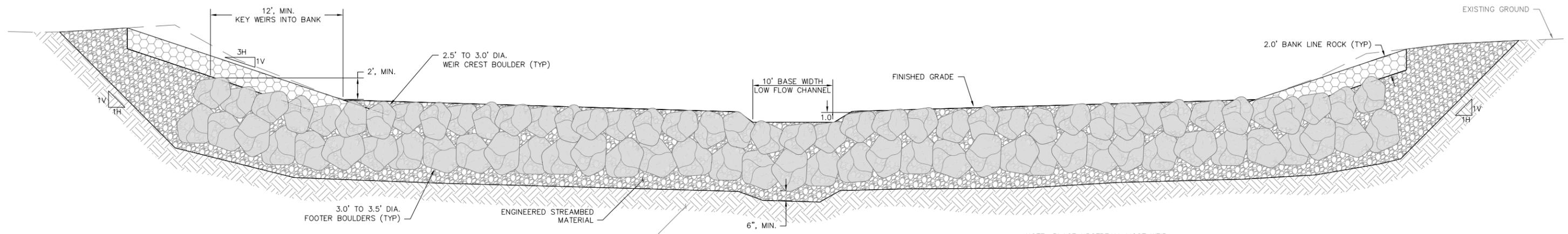
DRAWN BY: CH
CHECKED BY: RB & TG

SHEET: **C3**



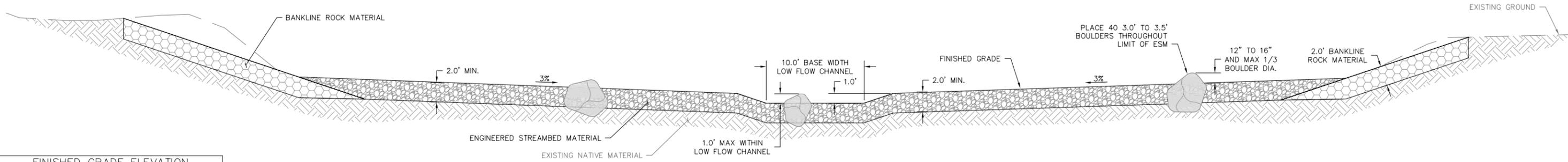
CHANNEL PROFILE DETAIL (1)
 SCALE: 1" = 3'
 0 1.5' 3' 6'

- WEIR PLACEMENT NOTES:**
1. OVEREXCAVATE TRENCH ALONG ENTIRE LENGTH OF WEIRS
 2. PLACE ENGINEERED STREAMBED MATERIAL (ESM) AS ROCK WEIR BEDDING
 3. PLACE WEIR BOULDERS ON ESM BEDDING
 4. BACKFILL ALL VOIDS BETWEEN BOULDERS WITH ESM
 5. WASH ESM WITH WATER AND TAMP TO FILL VOIDS BETWEEN WEIR BOULDERS AND WITHIN ESM
 6. WASH ESM WITH WATER TO FILL VOIDS WITHIN ESM AND ENSURE ABOVE GRADE FLOW, MINIMIZING FLOW THROUGH THE ESM.
 7. PLACE HAND-SELECTED 10" TO 12" BOULDERS WHERE REQUIRED TO FILL GAPS BETWEEN BOULDERS.



TYPICAL BOULDER WEIR SECTION (A)
 SCALE: 1" = 5'
 0 2.5' 5' 10'

NOTE: PLACE UPSTREAM-MOST WEIR WITH 0% CROSS SLOPE, PER SECTION ON SHEET C5



TYPICAL ROUGHENED CHANNEL SECTION (B)
 SCALE: 1" = 5'
 0 2.5' 5' 10'

- ESM PLACEMENT NOTES:**
1. MIX ESM ON SITE TO ENSURE THE INDICATED MATERIAL GRADATION IN THE ESM TABLE.
 2. PLACE ESM IN 8" MAX LIFTS, TAMPING TO COMPACT EACH LIFT.
 3. WASH EACH LIFT WITH WATER TO ENSURE THAT ALL AIR VOIDS ARE FILLED, AND THE ESM DOES NOT ALLOW SUBSURFACE WATER TO FLOW THROUGH VOIDS.
 4. IF WATER FLOWS THROUGH VOIDS, PLACE ADDITIONAL FINE-GRAINED MATERIAL ABOVE THE ESM LIFT AND WASH WITH WATER. CONTINUE THIS PROCESS UNTIL THE ESM DOES NOT ALLOW WATER TO FLOW BELOW ITS SURFACE.
 5. UPPER 16" OF ESM MUST BE ROUNDED RIVER-RUN MATERIAL THROUGHOUT LIMIT OF WORK.
 6. THE UPPER 36" OF ESM WITHIN 10 FEET DOWNSTREAM OF EACH WEIR MUST BE ROUNDED RIVER-RUN MATERIAL.
 7. THE LOWER PORTIONS OF ESM NOT MENTIONED ABOVE MAY BE ANGULAR ROCK MEETING THE GRADATION IN THE ESM MATERIAL TABLE.

FINISHED GRADE ELEVATION CONSTRUCTION TOLERANCES

BANKLINE ROCK MATERIAL	-0.5' TO +0.5'
ENGINEERED STREAMBED MATERIAL	-0.25' TO +0.25'
TOP OF WEIR CREST BOULDERS	0.0' TO +0.5'

ENGINEERED STREAMBED MATERIAL

1 PART	10" TO 12" BOULDERS
2 PARTS	5" TO 10" COBBLES
6 PARTS	2.5" TO 5" COBBLES
6 PARTS	0.3" TO 2.5" GRAVEL
3 PARTS	0.08"-0.3" FINE GRAVEL
2 PARTS	< 0.08" FINES

BANKLINE ROCK MATERIAL

5 PARTS	4" TO 1.3" FACING ROCK
5 PARTS	2.5"-4" COBBLES
7 PARTS	0.3"-2.5" GRAVEL
2 PARTS	0.08"-0.3" FINE GRAVEL
1 PART	FINES

- NOTES:**
1. LOCAL SURFACE IRREGULARITIES OF THE ABOVE MATERIALS MUST FALL WITHIN THE ABOVE TOLERANCES.
 2. THE MEAN DIFFERENCE BETWEEN AS-BUILT AND DESIGN ELEVATIONS OF ANY 5 POINTS TAKEN 20' MINIMUM BETWEEN POINTS ALONG THE FINISHED GRADE OF THE UPSTREAM-MOST WEIR (STA: 8+87.73) MUST HAVE A MAXIMUM VALUE OF 0.10'.

NOTE: MIX MATERIAL ON SITE.

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DETAILS

BUDISELICH FLASHBOARD DAM
FISH PASSAGE IMPROVEMENT PROJECT
FINAL DESIGN

CONSTRUCTION SET

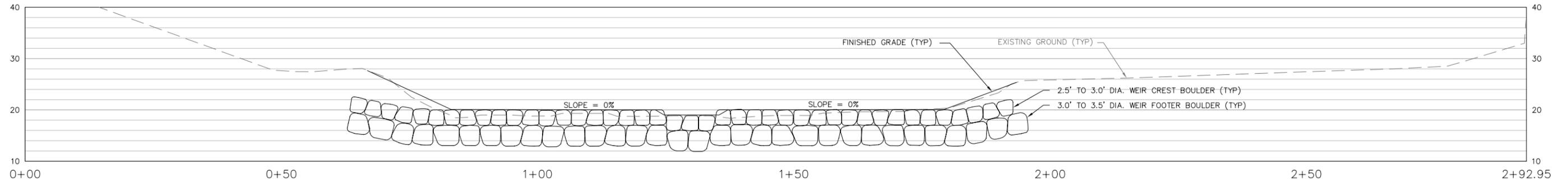
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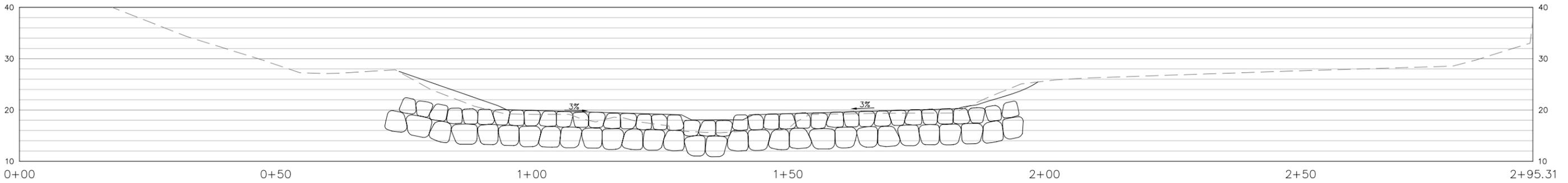
DRAWN BY: CH
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SHEET: **C4**

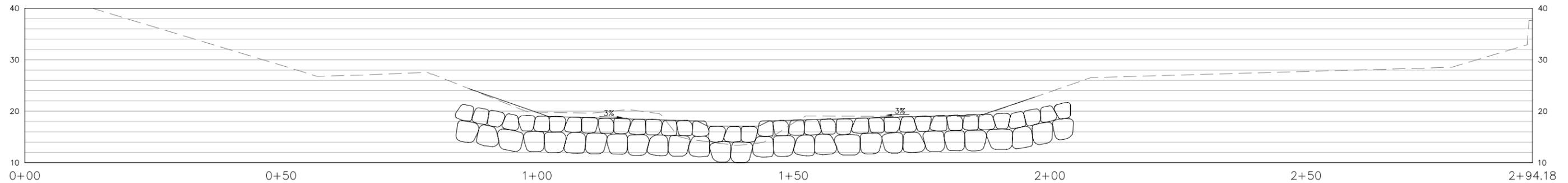
STA: 8+82.73 WEIR 1



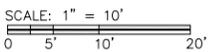
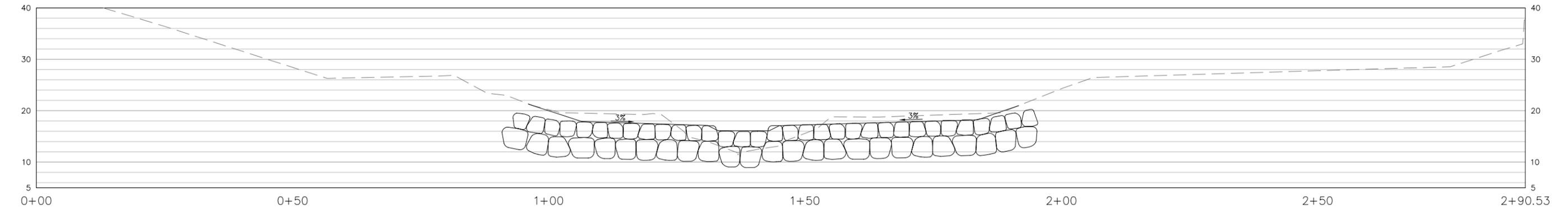
STA: 8+49.40 WEIR 2



STA: 8+16.07 WEIR 3



STA: 7+82.74 WEIR 4



NOTE: SECTIONS LOOK DOWNSTREAM

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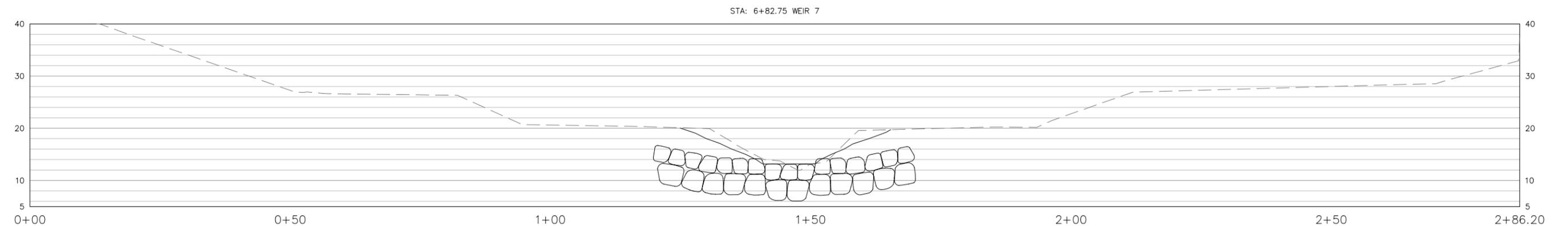
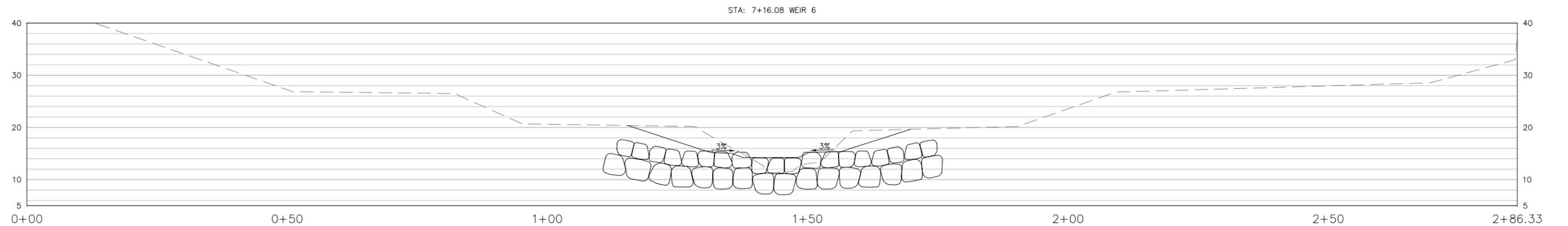
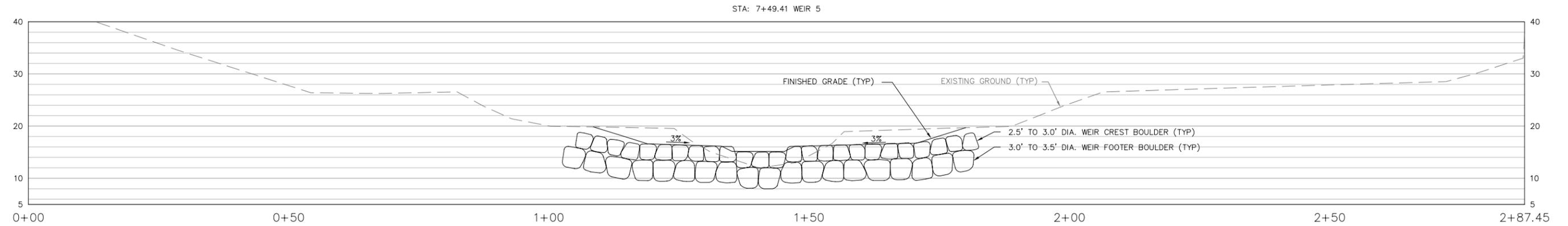


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SECTIONS 1 OF 2
BUDISELICH FLASHBOARD DAM
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 CHECKED BY: RB & TG
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 SHEET: **C5**

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NOTE: SECTIONS LOOK DOWNSTREAM

SCALE: 1" = 10'

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SECTIONS 2 OF 2

**BUDISELICH FLASHBOARD DAM
 FISH PASSAGE IMPROVEMENT PROJECT
 FINAL DESIGN**

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SHEET: **C6**

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