

ADDENDUM NO. 1

2021 21-315.1 RE-BID EAST BRANCH AUSABLE RIVER RESTORATION PROJECT

Town of Jay – Essex County, New York

June 4, 2021

TO ALL HOLDERS OF BIDDING DOCUMENTS:

This Addendum, issued to bid document holders of record, provides clarifications to the bid documents for the 2021 21-315.1 Re-Bid East Branch Ausable River Restoration Project, Sites 2 and 3. All information and clarifications described herein shall be incorporated into the Contractor's bid proposal. This Addendum is part of the Contract Documents (a.k.a., The Project Manual). Adjustments required by each item shall be understood to apply to all document references affected by the clarifications described.

1. Questions have been received regarding interpretation of the design plans for the purpose of estimating quantities. The following clarifications are provided in response:
 - Sod and backfill is indicated on the toe wood detail on sheets C2-8 and C3-7. All of this material shall consist of river alluvium and it should be assumed that all of this material will be sourced from on-site. *There will be no imported sod or topsoil required for either project.* The coir fabric is still required and seed and planting will be incorporated into the fabric.
 - As guidance for estimating the number of trees that will be required assume a frequency of one tree for every 15 lineal feet of toe wood bench.
 - See attached Toe Wood Construction Sequence Sheets and photographs from another similar scale toe wood project for additional information and guidance regarding toe wood bench construction. Please note that the projects in Jay do not involve straw hay bales.
2. Additional plan sheets SK2-3, SK2-4, SK3-3, and SK3-4 have been issued and are attached. These sheets are supplementary to the site plan / profile sheets and show existing ground contours as well as proposed. In addition, the profiles have been corrected on these sheets to remove a superfluous line that appears above each weir on the plans that were issued with the re-bid.

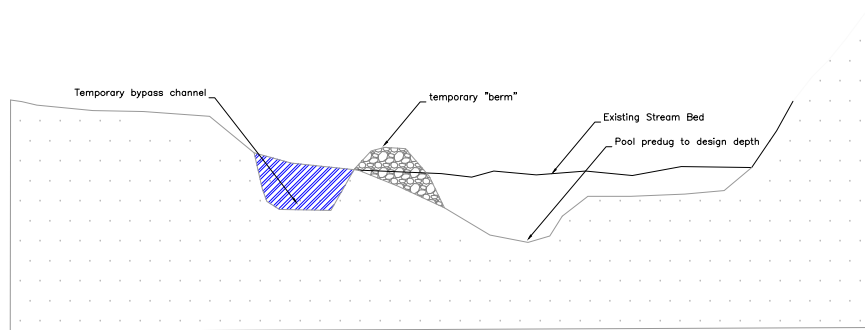
END OF ADDENDUM NO. 1

Attachments:

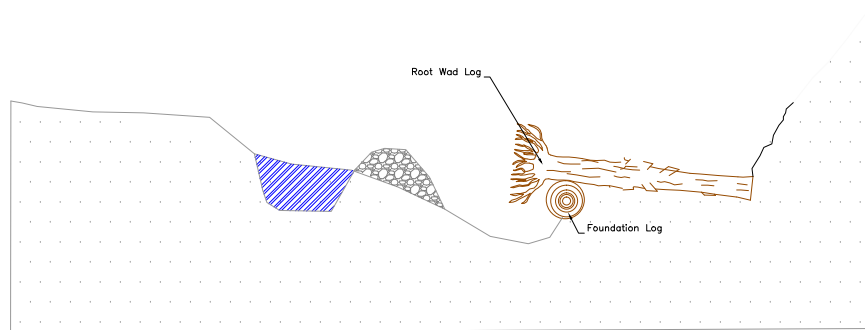
- 1) Toe Wood Construction Sequence**
- 2) Photographs of Toe Wood Construction on Genesee River**
- 3) Additional Plan Sheets SK2-3, SK2-4, SK3-3, and SK3-4**

ATTACHMENT 1

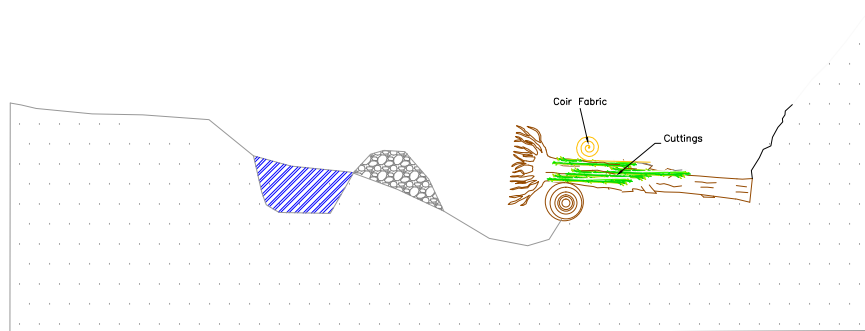
TOE WOOD CONSTRUCTION SEQUENCE



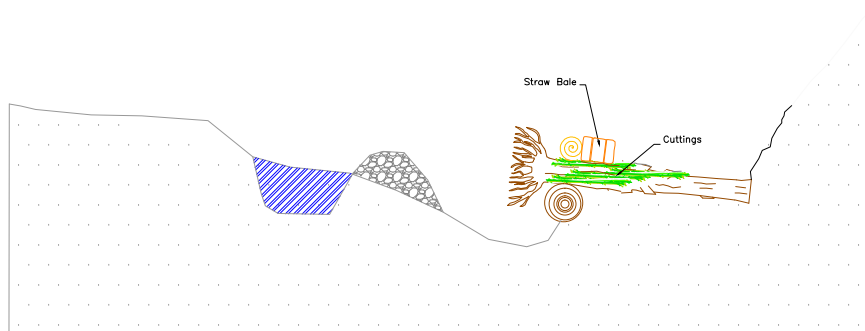
Predig pool to design specifications. Excavate bypass channel on opposite bank and low berm to isolate the job site.



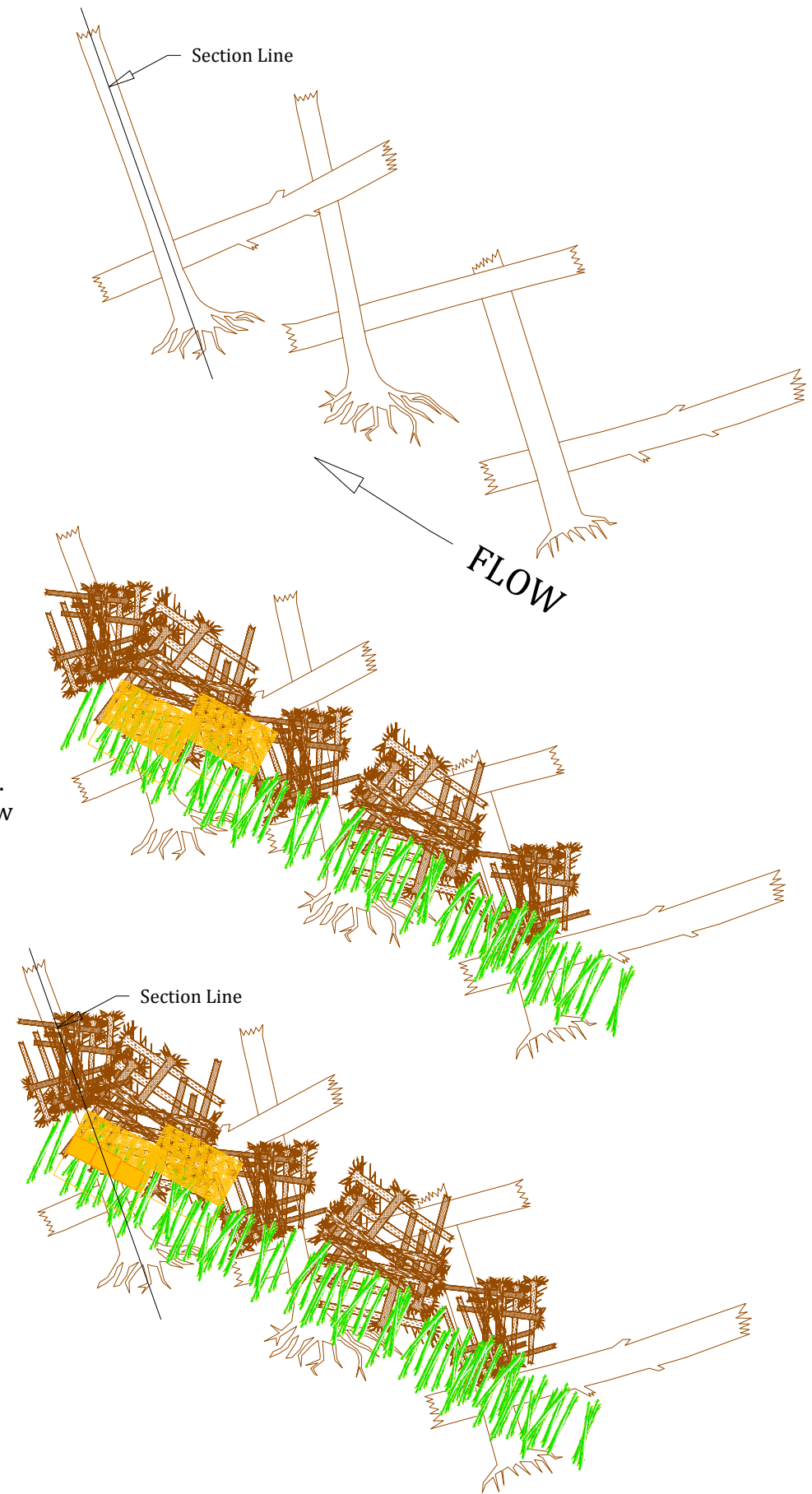
Install foundation log and root wad log such that they intersect at $\sim 90^\circ$ with the foundation log below the root wad log



Place slash and cutting in voids between the logs. Cover with gravel / cobble. Place a layer of willow cuttings and lay coir fabric down leaving most of the roll by the root wad

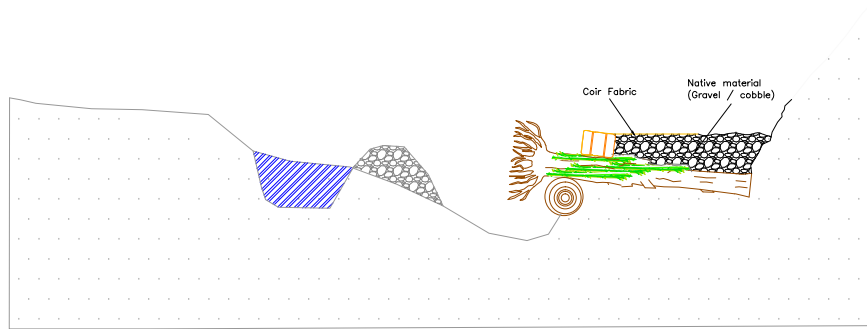


Place straw bale at face of new bank

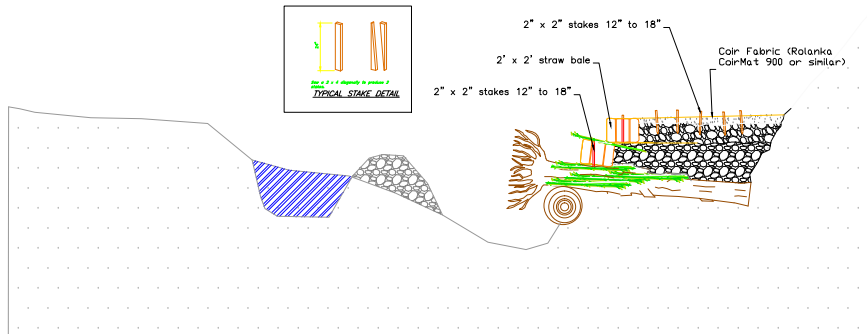


REVISIONS	
DATE	BY

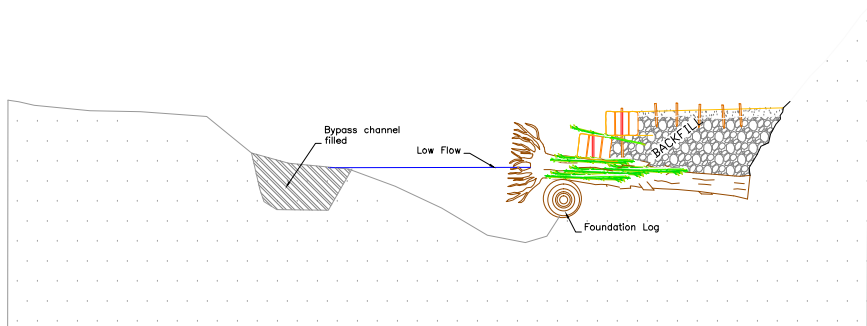
PROJECT MANAGER:	DRAFTING:
DESIGN:	CHECKED BY:
SCALE:	



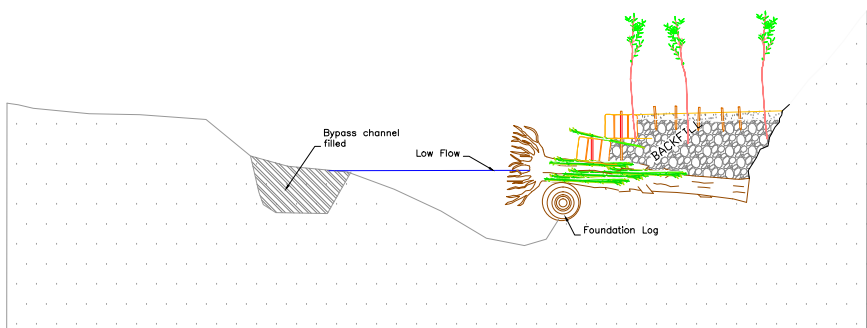
Backfill behind the bale with native material. Wrap fabric over the bale and over the new fill.



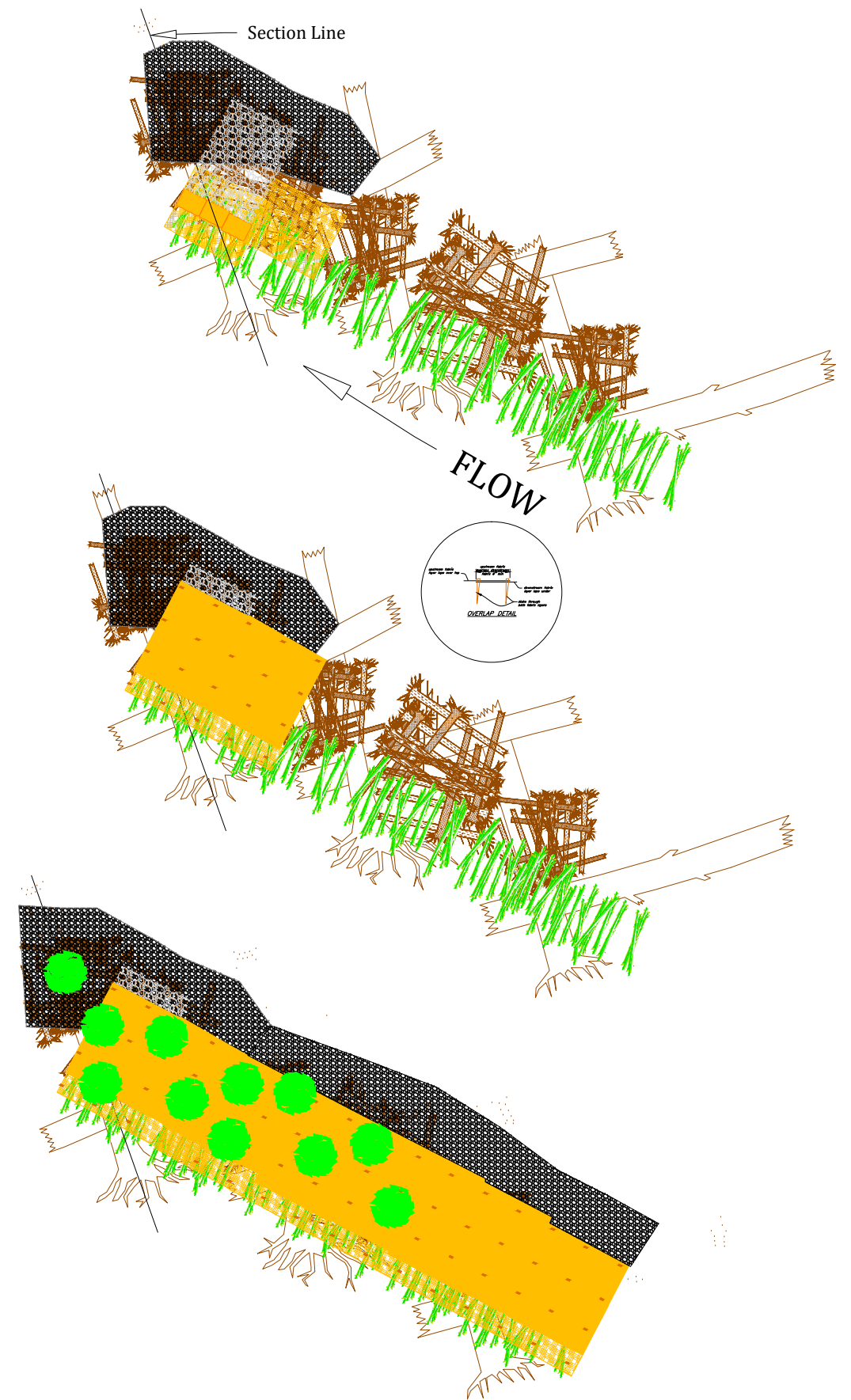
Build another soil lift above the first and set back 18"-24" from the lower lift using the same procedures as above. Stake with 2' hardwood stakes at 3' intervals ensuring that areas of fabric overlap are staked through both pieces of fabric.



Restore flow to the new channel. Remove the temporary "berm" using the material to fill the bypass channel. Assure that the point bar slope is consistent with pool cross sections.



After staking the banks should be planted to design specifications, typically with live stakes, and / or bare-root stock, and / or containerized plant material. Care should be taken in design to ensure that species selected are native and typical in nearby reference riparian zones.



REVISIONS	
DATE	BY

PROJECT MANAGER:	DRAFTING:
DESIGN:	CHECKED BY:
SCALE:	

ATTACHMENT 2

PHOTOGRAPHS OF TOE WOOD ON THE GENESEE RIVER

**Photographs of Toewood Installation (provided by USFWS)
Genesee River (Bankfull Width ~210 ft)**



**Photographs of Toewood Installation (provided by USFWS)
Genesee River (Bankfull Width ~210 ft)**

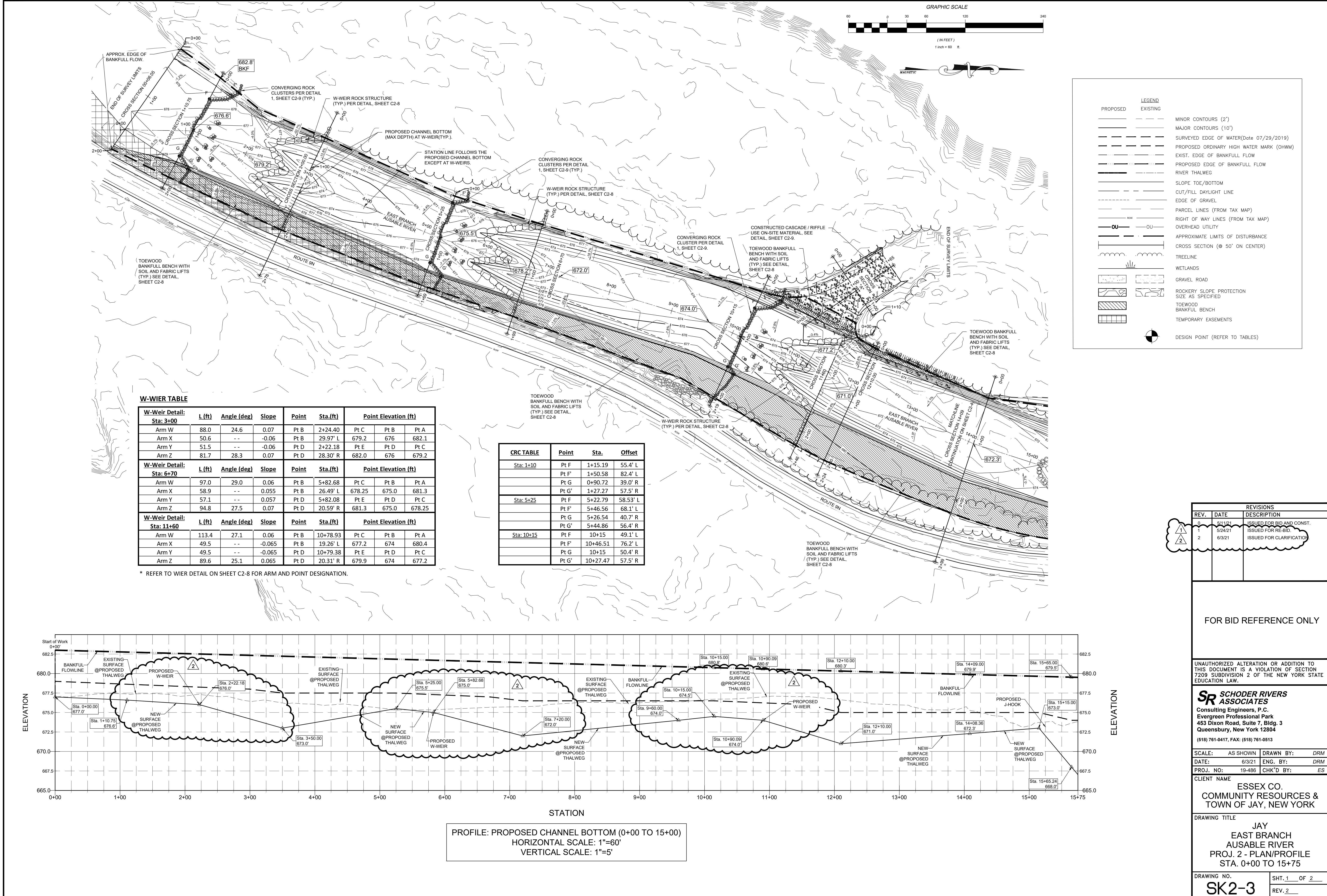


Photographs of Toewood Installation (provided by USFWS)
Genesee River (Bankfull Width ~210 ft)



ATTACHMENT 3

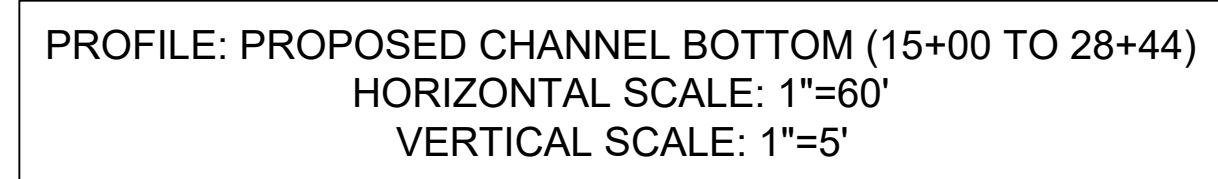
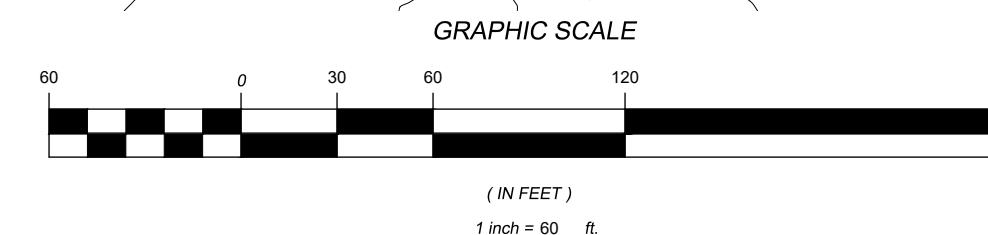
ADDITIONAL PLAN SHEETS SK2-3, SK2-4, SK3-3 AND SK3-4



<i>J-Hook Detail: Sta: 15+65</i>		<i>Point</i>	<i>Sta.</i>	<i>Offset</i>	<i>EL</i>
Arm Length (ft)	88.66	Pt. H	16+26.25	33.0 R	678.4
Arm Slope (deg)	0.05	Pt. I	15+39.20	24.98 R	673.9
Arm Angle (deg)	22.7	Pt. J	15+22.61	14.82 R	673.3
		Pt. K	15+14.93	0.0	673.0
		Pt. L	15+27.81	14.81 L	673.0
<i>J-Hook Detail: Sta: 18+58.86</i>		<i>Point</i>	<i>Sta.</i>	<i>Offset</i>	<i>EL</i>
Arm Length (ft)	90.15	Pt. H	19+72.31	31.22 R	678.5
Arm Slope (deg)	0.05	Pt. I	18+82.71	25.37 R	674.0
Arm Angle (deg)	21.0	Pt. J	18+66.17	15.14 R	673.2
		Pt. K	18+58.86	0.0	672.5
		Pt. L	18+71.97	14.60 L	672.5

TOEWOOD BANKFULL
BENCH WITH SOIL
AND FABRIC LIFTS
(TYP.) SEE DETAIL,
SHEET C2-8

<i>J-Hook Detail: Sta: 22+41</i>		<i>Point</i>	<i>Sta.</i>	<i>Offset</i>	<i>EL</i>
Arm Length (ft)	67.21	Pt. H	23+11.38	53.51 R	677.8
Arm Slope (deg)	0.07	Pt. I	22+10.02	29.42 R	673.3
Arm Angle (deg)	28.4	Pt. J	21+80.94	13.18 R	672.6
		Pt. K	21+91.39	0.0	672.0
		Pt. L	22+07.02	11.86 L	672.0
<i>J-Hook Detail: Sta: 28+02</i>		<i>Point</i>	<i>Sta.</i>	<i>Offset</i>	<i>EL</i>
Arm Length (ft)	95.41	Pt. H	28+38.96	60.30 L	676.6
Arm Slope (deg)	0.05	Pt. I	27+70.63	28.59 L	672.2
Arm Angle (deg)	31.2	Pt. J	27+58.11	15.84 L	671.6
		Pt. K	27+52.46	0.0	671.0
		Pt. L	27+68.35	12.74 R	671.0



	0	5/11/21	ISSUED FOR BID AND CONST.
	1	5/24/21	ISSUED FOR RE-BID.
	2	6/3/21	ISSUED FOR CLARIFICATION

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SCALE:	AS SHOWN	DRAWN BY:	DRM
DATE:	6/3/21	ENG. BY:	DRM
PROJ. NO:	19-486	CHK'D BY:	ES

DRAWING TITLE

JAY
EAST BRANCH
AUSABLE RIVER
PROJ. 2 - PLAN/PROFILE
STA. 15+00 TO 28+44

DRAWING NO. SK2-4	SHT. <u>2</u> OF <u>2</u>
	REV. <u>2</u>

W-Weir Detail: Sta: 1+36								
	L (ft)	Angle (deg)	Slope	Point	Sta.(ft)	Point Elevation (ft)		
Arm W	79.1	28.6	0.07	Pt B	0+57.67	Pt C	Pt B	Pt A
Arm X	47.3	--	-0.06	Pt B	13.8' L	666.9	664.0	669.5
Arm Y	47.4	--	-0.06	Pt D	0+83.04	Pt E	Pt D	Pt C
Arm Z	79.1	28.6	0.07	Pt D	43.3' R	669.5	664.0	666.9
W-Weir Detail: Sta: 5+30								
	L (ft)	Angle (deg)	Slope	Point	Sta.(ft)	Point Elevation (ft)		
Arm W	95.0	28.0	0.06	Pt B	4+46.77	Pt C	Pt B	Pt A
Arm X	55.4	--	-0.06	Pt B	2+1' L	665.7	662.5	668.7
Arm Y	55.3	--	-0.06	Pt D	4+47.6	Pt E	Pt D	Pt C
Arm Z	94.8	27.8	0.06	Pt D	26.9' R	668.4	662.5	665.7

LEGEND	
PROPOSED	EXISTING
MINOR CONTOURS (2')	
MAJOR CONTOURS (10')	
SURVEYED EDGE OF WATER(Date 07/29/1919)	
PROPOSED ORDINARY HIGH WATER MARK (OHWM)	
EXIST. EDGE OF BANKFULL FLOW	
PROPOSED EDGE OF BANKFULL FLOW	
RIVER THALWEG	
SLOPE TOE/BOTTOM	
CUT/FILL DAYLIGHT LINE	
EDGE OF GRAVEL	
PARCEL LINES (FROM TAX MAP)	
RIGHT OF WAY LINES (FROM TAX MAP)	
OVERHEAD UTILITY	
APPROXIMATE LIMITS OF DISTURBANCE	
CROSS SECTION (@ 50' ON CENTER)	
TREE LINE	
WETLANDS	
GRAVEL ROAD	
ROCKERY SLOPE PROTECTION SIZE AS SPECIFIED	
TOEWOOD	
BANKFUL BENCH	
TEMPORARY EASEMENTS	
DESIGN POINT (REFER TO TABLES)	

Step-Wear Detail:		L (ft)	Angle (deg)	Slope
Chute				
Arm Y	77.6	17.4	0.0226	
Arm Z	77.3	16.9	0.0226	
Invert	Sta.(ft)	Offset(ft)	Elev. (ft)	
Pt A	1+47.03	0.0	668.00	
Pt A-L	1+49.56	7.3 L	668.25	
Pt A-R	1+49.79	8.5 R	668.25	
Pt B	1+61.8	0.0	666.20	
Pt C	1+74.9	0.0	667.80	
Pt D-L	1+79.7	16.7 L	668.96	
Pt D-R	1+80.0	18.0 R	668.97	
Pt E	2+23.6	0.0	662.50	
Pt F-L	2+26.6	30.5 L	670.00	
Pt F-R	2+26.6	30.5 L	670.00	

CRC TABLE	Point	Sta.	Offset
Sta: 0+12	Pt F	0+08.22	19.9' L
	Pt F'	0+23.98	55.6' L
	Pt G	0+50.72	70.0' R
	Pt G'	0+92.84	81.3' R
Sta: 3+85	Pt F	3+85.00	49.7' L
	Pt F'	4+11.45	70.0' L
	Pt G	3+85.00	49.7' R
	Pt G'	4+12.99	69.7' R

REV. REVISIONS		
REV.	DATE	DESCRIPTION
0	5/11/21	ISSUED FOR BID AND CONST.
1	5/24/21	ISSUED FOR RE-BID.
2	6/3/21	ISSUED FOR CLARIFICATION.

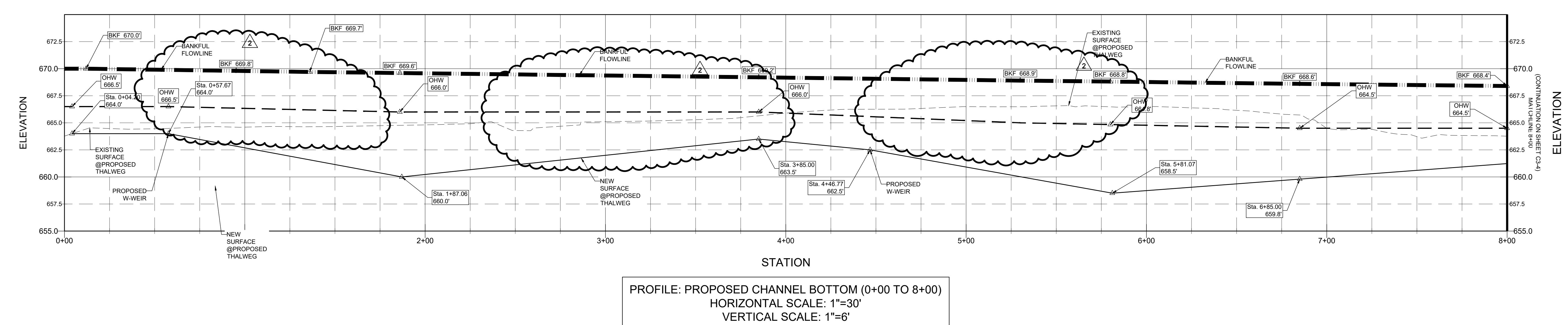
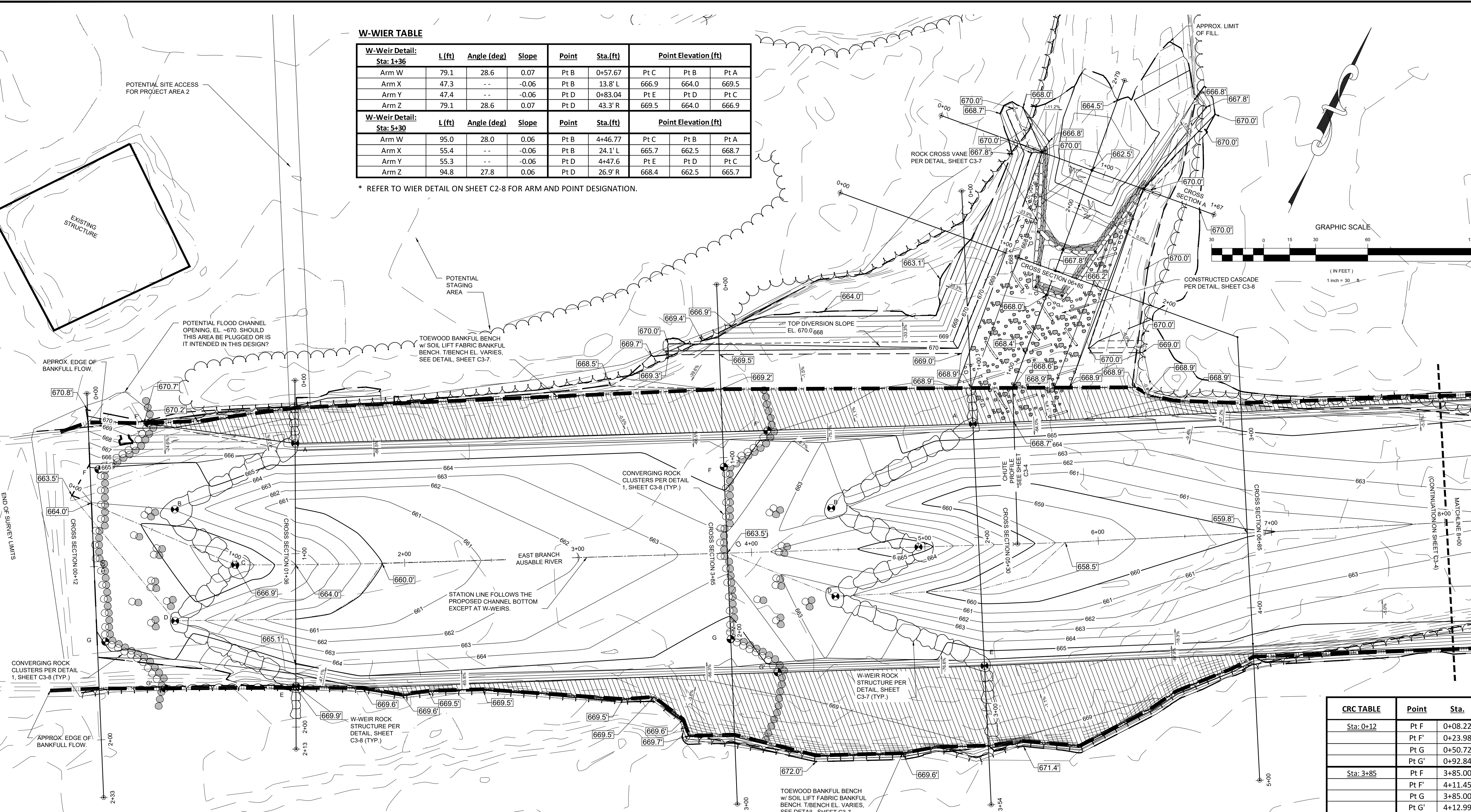
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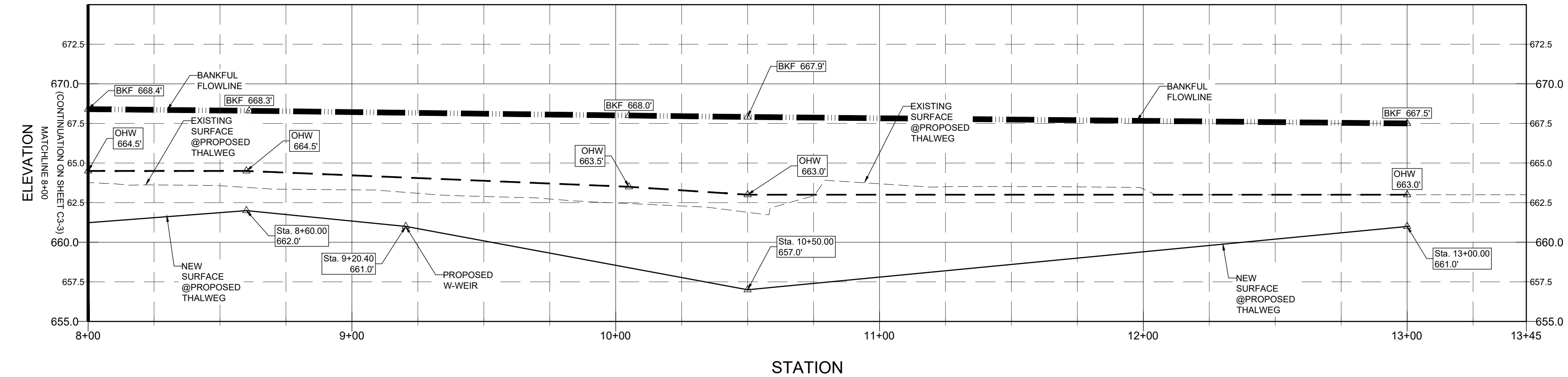
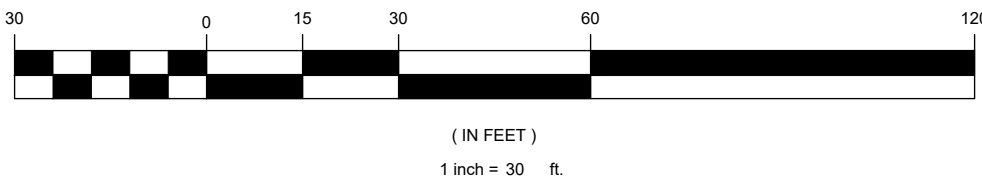
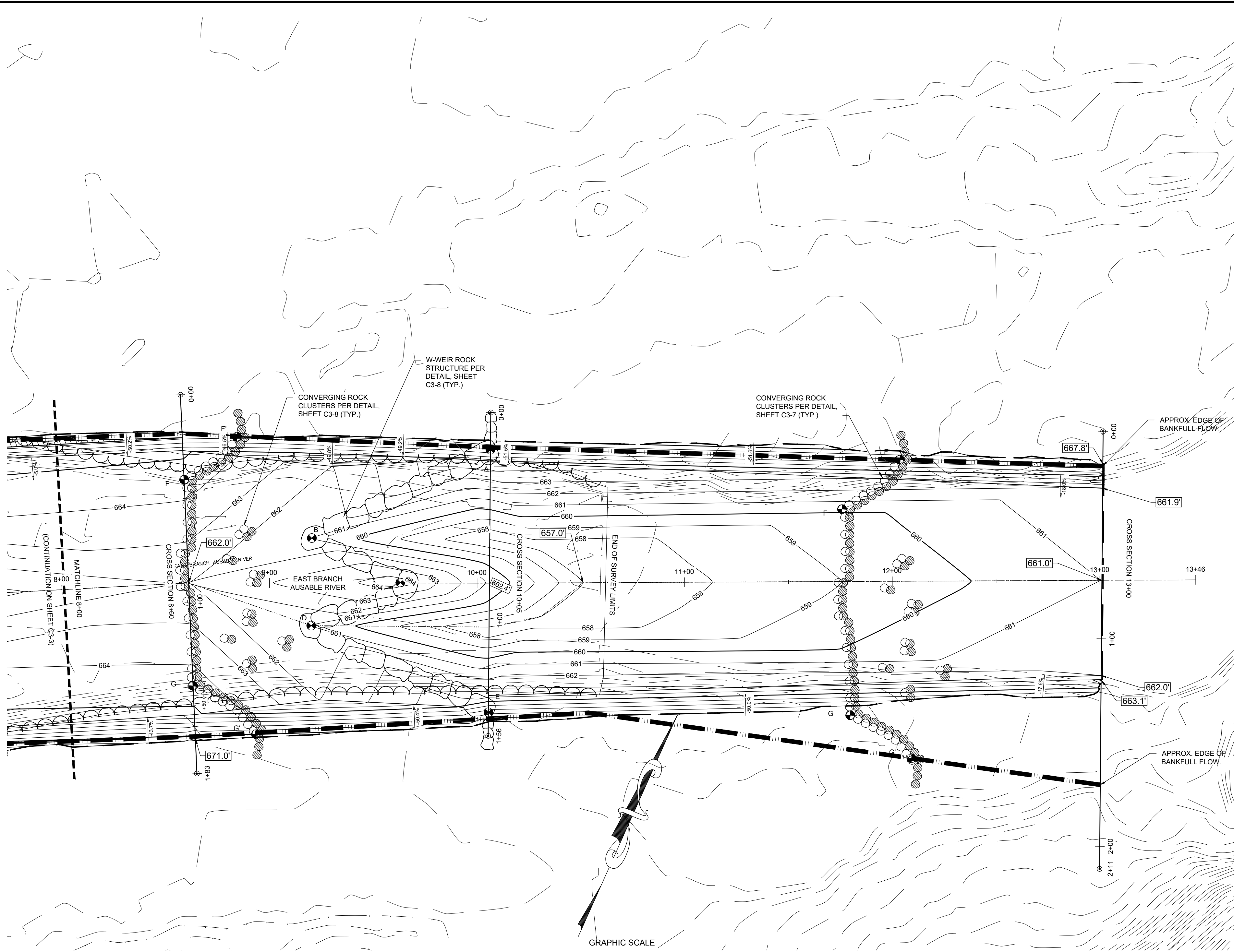
SCALE:	AS SHOWN	DRAWN BY:	DRM
DATE:	6/3/21	ENG. BY:	DRM
PROJ. NO:	19-486	CHK'D BY:	ES

DRAWING TITLE

JAY
EAST BRANCH
AUSABLE RIVER
PROJ. 3 - PLAN/PROFILE
STA. 0+00 TO 8+00

DRAWING NO. SK3-3	SHT. <u>1</u> OF <u>2</u>
	REV. <u>2</u>





PROFILE: PROPOSED CHANNEL BOTTOM (8+00 TO 13.45)
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=6'

W-WIER TABLE

W-Weir Detail: Sta: 10+05	L (ft)	Angle (deg)	Slope	Point	Sta.(ft)	Point Elevation (ft)		
Arm W	96.0	27.3	0.07	Pt B	9+20.40	Pt C	Pt B	Pt A
Arm X	47.7	--	-0.07	Pt B	21.7' L	664.5	661	667.7
Arm Y	47.7	--	-0.07	Pt D	9+20.10	Pt E	Pt D	Pt C
Arm Z	95.0	25.5	0.07	Pt D	20.5' R	667.7	661	664.5

* REFER TO WIER DETAIL ON SHEET C2-8 FOR ARM AND POINT DESIGNATION.

CRC TABLE	Point	Sta.	Offset
Sta: 8+60	Pt F	8+61.56	49.8' L
	Pt F'	8+84.31	70.5' L
	Pt G	8+63.27	49.6' R
	Pt G'	8+93.60	72.9' R
Sta: 11+77	Pt F	11+75.95	34.9' L
	Pt F'	12+04.02	58.5' L
	Pt G	11+79.44	64.5' R
	Pt G'	12+08.86	85.3' R

LEGEND

PROPOSED

EXISTING

MINOR CONTOURS (2')

MAJOR CONTOURS (10')

SURVEYED EDGE OF WATER(Date 07/29/

PROPOSED ORDINARY HIGH WATER MARK

EXIST. EDGE OF BANKFULL FLOW

PROPOSED EDGE OF BANKFULL FLOW

RIVER THALWEG

SLOPE TOE/BOTTOM

CUT/FILL DAYLIGHT LINE

EDGE OF GRAVEL

PARCEL LINES (FROM TAX MAP)

RIGHT OF WAY LINES (FROM TAX MAP)

OVERHEAD UTILITY

APPROXIMATE LIMITS OF DISTURBANCE

CROSS SECTION (@ 50' ON CENTER)

TREELINE

WETLANDS

GRAVEL ROAD

ROCKERY SLOPE PROTECTION
SIZE AS SPECIFIED

TOEWOOD

BANKFUL BENCH

TEMPORARY EASEMENTS

DESIGN POINT (REFER TO TABLES)

REV.

DATE

REVISIONS
DESCRIPTION

1

2

1

2

5/1/21
5/24/21
6/3/21

ISSUED FOR BID AND CONST.
ISSUED FOR RE-BID.
ISSUED FOR CLARIFICATION

FOR BID REFERENCE ONLY

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SCALE:

AS SHOWN

DRAWN BY:

DRM

DATE:

6/3/21

ENG. BY:

DRM

PROJ. NO:

19-486

CHK'D BY:

ES

CLIENT NAME

ESSEX CO.
COMMUNITY RESOURCES &
TOWN OF JAY, NEW YORK

DRAWING TITLE

JAY
EAST BRANCH
AUSABLE RIVER
PROJ. 3 - PLAN/PROFILE
STA. 8+00 TO 13+00

DRAWING NO.

SHT. 2 OF 2

REV. 2

SK3-4