US Army Corps
of Engineers®
KANSAS CITY DISTRICT

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

SOLICITATION NO.: W912DQ23B1005
CONTRACT NO.: SEE COVER SHEET
ISSUE DATE: APRIL 2023

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF DRAWINGS IN THIS SET AS INDEXED ON THIS PLATE

APPROVAL RECOMMENDED:

BITNER.CHANCE.JUSTIN.1266568491 Digitally signed by BITNER.CHANCE.JUSTIN.1266568491 Date: 2023.03.07 12:43:25 -06'00'

CHIEF, HYDROLOGIC ENGINEERING BRANCH DATE

APPROVED:

Digitally signed by SHUMATE.ERIC.D.1271347606 Date: 2023.03.13 17:52:52 -05'00'

CHIEF, ENGINEERING DIVISION, P.E. DATE

THIS PROJECT WAS DESIGNED BY THE KANSAS CITY DISTRICT OF THE U.S. ARMY ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS THAT APPEAR ON THESE PROJECT DOCUMENTS ARE WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_G-001.dgn
ISSUE DATE: APRIL 2023
SOLICITATION NO.: W912DQ23B1005
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

COVER SHEET

SHEET ID
G-001

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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11:33:59 AM 4/10/2023 PD: NWK_pdf.pltcfg DS: NWK_Screen.dscript

READY TO ADVERTISE

SHEET NO.	TITLE	RELATED FILE NO.	CADD FILE NO.
	GENERAL		
G-001	COVER SHEET		MR_BS_JM_G-001.DGN
G-002	INDEX AND AREA MAP		MR_BS_JM_G-002.DGN
G-003	GENERAL NOTES AND LEGEND		MR_BS_JM_G-003.DGN
G-004	MO RIVERBANK STABILIZATION STRUCTURE LAYOUT		MR_BS_JM_G-004.DGN
G-005	HYDROGRAPH		MR_BS_JM_G-005.DGN
	CIVIL		
C-100	OVERALL SITE PLAN		MR_BS_JM_C-100.DGN
C-101	CHUTE ENTRANCE SITE ACCESS		MR_BS_JM_C-101.DGN
C-102	MID CHUTE SITE ACCESS		MR_BS_JM_C-102.DGN
CS101	CHUTE ENTRANCE SITE PLAN		MR_BS_JM_CS101.DGN
CS102	MID CHUTE SITE PLAN		MR_BS_JM_CS102.DGN
CS103	CONTROL STRUCTURE PLAN AND PROFILE		MR_BS_JM_CS103.DGN
CS201	DIKE PROFILES		MR_BS_JM_CS201.DGN
CS301	CROSS SECTIONS		MR_BS_JM_CS301.DGN
CS302	CROSS SECTIONS		MR_BS_JM_CS302.DGN
CS303	CROSS SECTIONS		MR_BS_JM_CS303.DGN
CS304	CROSS SECTIONS		MR_BS_JM_CS304.DGN
CS305	CROSS SECTIONS		MR_BS_JM_CS305.DGN
CS306	CROSS SECTIONS		MR_BS_JM_CS306.DGN
CS307	CROSS SECTIONS		MR_BS_JM_CS307.DGN
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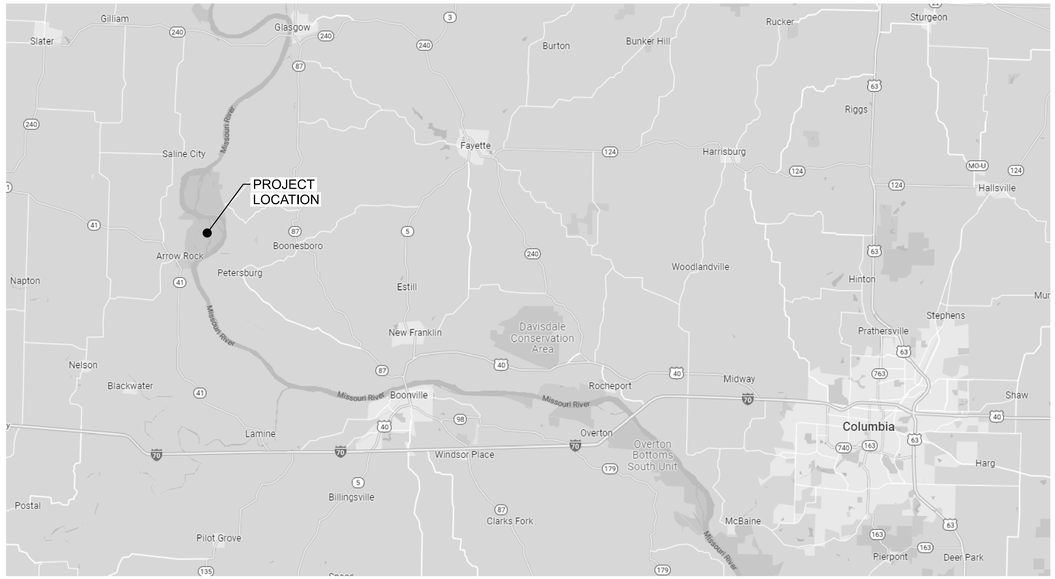
CS310	CROSS SECTIONS		MR_BS_JM_CS310.DGN
CS311	CROSS SECTIONS		MR_BS_JM_CS311.DGN
CS312	CROSS SECTIONS		MR_BS_JM_CS312.DGN
CS313	CROSS SECTIONS		MR_BS_JM_CS313.DGN
CS314	CROSS SECTIONS		MR_BS_JM_CS314.DGN
CS501	DETAILS		MR_BS_JM_CS501.DGN



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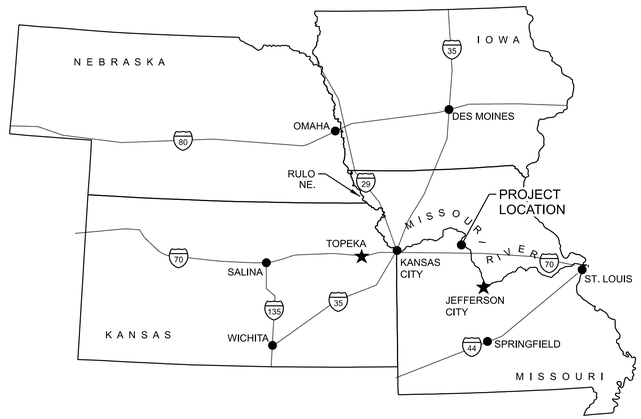
A1 AREA MAP
SCALE: NTS



N

A8 REGIONAL MAP
SCALE: NTS

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MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_G-002.dgn
ISSUE DATE: FEBRUARY 2023
SOLICITATION NO.: SEE COVER SHEET
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

INDEX AND AREA MAP

SHEET ID
G-002

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DRAWING SET TABLE OF CONTENTS

DISCIPLINE DESIGNATION

G-	GENERAL
V-	SURVEY/MAPPING
B-	GEOTECHNICAL
C-	CIVIL GENERAL
CD	CIVIL DEMOLITION
CS	CIVIL SITE
CG	CIVIL GRADING
CP	CIVIL SITE PAVING
CU	CIVIL SITE UTILITY
SE	STRUCTURAL
A-	ARCHITECTURAL GENERAL
AE	ARCHITECTURAL ELEMENTS
I-	INTERIOR GENERAL
IN	INTERIOR ELEMENTS
IF	INTERIOR ELEMENTS - FURNITURE
F-	FIRE PROTECTION
FA	FIRE ALARM
FX	FIRE SPRINKLER
P-	PLUMBING
M-	MECHANICAL GENERAL
MD	MECHANICAL DEMOLITION
MH	MECHANICAL ELEMENTS
MI	MECHANICAL CONTROLS
E-	ELECTRICAL
ED	ELECTRICAL DEMOLITION
ES	ELECTRICAL SITE
EG	ELECTRICAL LIGHTING PROTECTION
EL	ELECTRICAL LIGHTING
EP	ELECTRICAL POWER
T-	TELECOMMUNICATION
TS	TELECOMMUNICATION SITE

SHEET NAMING LEGEND

SAMPLE SHEET NAME: CS501
- 2-DIGIT DISIPLINE DESIGNATOR (SEE ABOVE)
- 1-DIGIT SHEET TYPE DESIGNATOR (0-9)
- 2-DIGIT SHEET SEQUENCE (00-99)

SAMPLE CADD FILE NAME: K1001_CS501.DGN
- 5-DIGIT PROJECT CODE (TRI-SERVICE STANDARD)
- 2-DIGIT DISIPLINE DESIGNATOR (SEE ABOVE)
- 1-DIGIT SHEET TYPE DESIGNATOR (0-9)
- 2-DIGIT SHEET SEQUENCE (00-99)

INTERDISCIPLINARY LEGENDS

STRUCTURAL LEGEND
SEE SHEET S-001 FOR LEGEND

TERMS AND ABBREVIATIONS

AI	AREA INLET
APPROX	APPROXIMATE
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
B&B	BALL AND BURLAP
B.M.	BENCH MARK
BDRY	BOUNDARY
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BTM	BOTTOM
CL	CENTER LINE
CLSM	CONTROLED LOW STRENGTH MATERIAL
C.I.	CAST IRON
C.O.E.	CORPS OF ENGINEERS
C.O.R.	CONTRACTING OFFICER REPRESENTATIVE
CAP	CAPACITY
CB	CATCH BASIN
CFS	CUBIC FEET PER SECOND
CI	CURB INLET
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATIONS
CONC	CONCRETE
CP	CONTROL POINT
CU YD	CUBIC YARDS
DB	DRAIN BASIN
DEG	DEGREE
DI	DROP INLET
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DTL	DETAIL
DGN	DRAWING
DWLS	DOWELS
E	ELECTRIC
EL	ELEVATION (GRADE OR BLDG)
EOP	EDGE OF PAVEMENT
EOR	ENGINEER OF RECORD
EQ	EQUAL
ES	END SECTION
EW	EACH WAY
E/EX./EXIST	EXISTING
FH	FIRE HYDRANT
FI	FIELD INLET
FIG	FIGURE
FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FM	FORCE MAIN
FT	FEET
FV	FIELD VERIFY
G	GAS
G.V.	GATE VALVE
GA	GAUGE
GRND	GROUND
GRVL	GRAVEL
GV	GAS VALVE
HT	HEIGHT
HYD	HYDRAULIC
I.D.	INSIDE DIAMETER
IN	INCH
INV	INVERT
IS	INDUSTRIAL SEWER
LBS	POUND
LGTH	LENGTH
LS	LOW STEEL
ME	MATCH EXISTING
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
MW	MONITORING WELL
N	NORTH/NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
OC	ON CENTERS
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
P	POLE
PD	PAVEMENT DRAIN
PERF	PERFORATED
PIV	POST INDICATOR VALVE
PL	POWER LINE
PP	POWER POLE
PROP	PROPOSED
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PT	POINT
RAD OR R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCMENT
REQ'D	REQUIRED
REV	REVISIONS
ROW	RIGHT OF WAY
S	SOUTH
SW	SIDEWALK
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SP	SPACING
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
TAB	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TP	TEST PIT
TYP	TYPICAL
U.S.	UNITED STATES
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UKN	UNKNOWN
UTY	UTILITY
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
W	WEST
W/	WITH
W/O	WITHOUT
WL	WATERLINE
WMH	WATER MANHOLE
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD

SITE PLAN LINE STYLE LEGEND

- RIGHT OF WAY
- CONSTRUCTION CONTRACT LIMIT
- CONSTRUCTION EASEMENT
- PROPERTY LINE
- DEMOLITION UTILITY LINE
- SANITARY WASTE
- STORM DRAIN
- GAS (HIGH PRESSURE)
- GAS (LOW PRESSURE)
- COMMUNICATION
- FIBER OPTICS
- TELEPHONE
- WATER LINE
- SANITARY SEWER - FORCE
- DITCH
- CULVERT - DRAINAGE PIPE
- ELECTRICAL PRIMARY
- ELECTRICAL SECONDARY
- FENCE
- TREE LINE
- RIPRAP PLAN VIEW
- GUARDRAIL
- RAILROAD
- NEW LEVEE
- FEDERAL LEVEE
- NON-FEDERAL LEVEE
- BERM

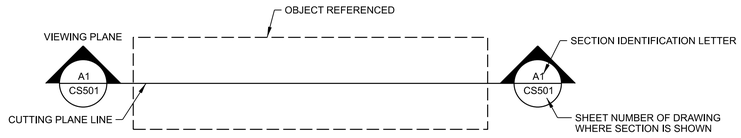
SITE PLAN SYMBOL LEGEND

- HORIZONTAL CONTROL POINT
- HORIZONTAL VERTICAL CONTROL POINT
- VERTICAL CONTROL POINT
- BORING DRILLED
- BORING UNDRILLED
- PIEZOMETER
- MONITORING WELL
- COMMUNICATINON VAULT
- ELECTRICAL VAULT
- NATURAL GAS VAULT
- TELEPHONE VAULT
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- TRANSFORMER (POLE MOUNTED)
- WATER HANDHOLE
- WATER MANHOLE
- WATER METER
- SANITARY MANHOLE
- SANITARY METER
- SEPTIC TANK
- SANITARY CLEANOUT
- STORM DRAINAGE MANHOLE
- NATURAL GAS SHUTOFF
- NATURAL GAS MANHOLE
- NATURAL GAS METER
- ELECTRICAL HANDHOLE
- MANHOLE ELECTRICAL
- COMMUNICATION MANHOLE
- TELEPHONE MANHOLE

MATERIAL SYMBOL LEGEND

- COMPACTED EARTH
- ROCK
- RIPRAP
- CONCRETE
- FILTRATION BED
- ASPHALT

SHEET REFERENCE SYMBOL LEGEND



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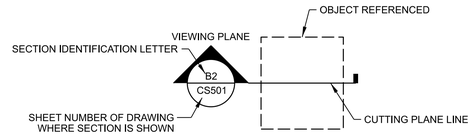

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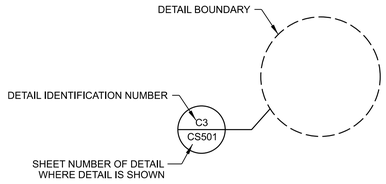

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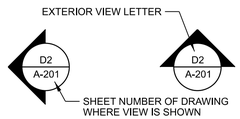

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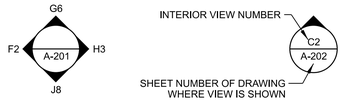
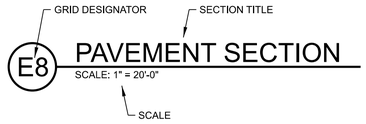


INTERIOR ELEVATIONS WITH MULTIPLE VIEWS

INTERIOR ELEVATION



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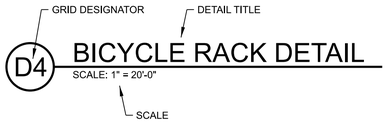

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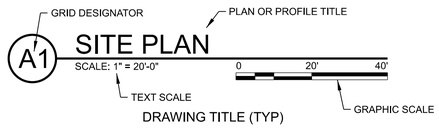

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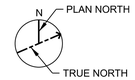

NORTH ARROW

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N.CHRISMAN	FEBRUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
M. GOSSENAUER	
SIZE:	MR_BS_JM_G-003.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

GENERAL NOTES AND LEGEND

SHEET ID
G-003

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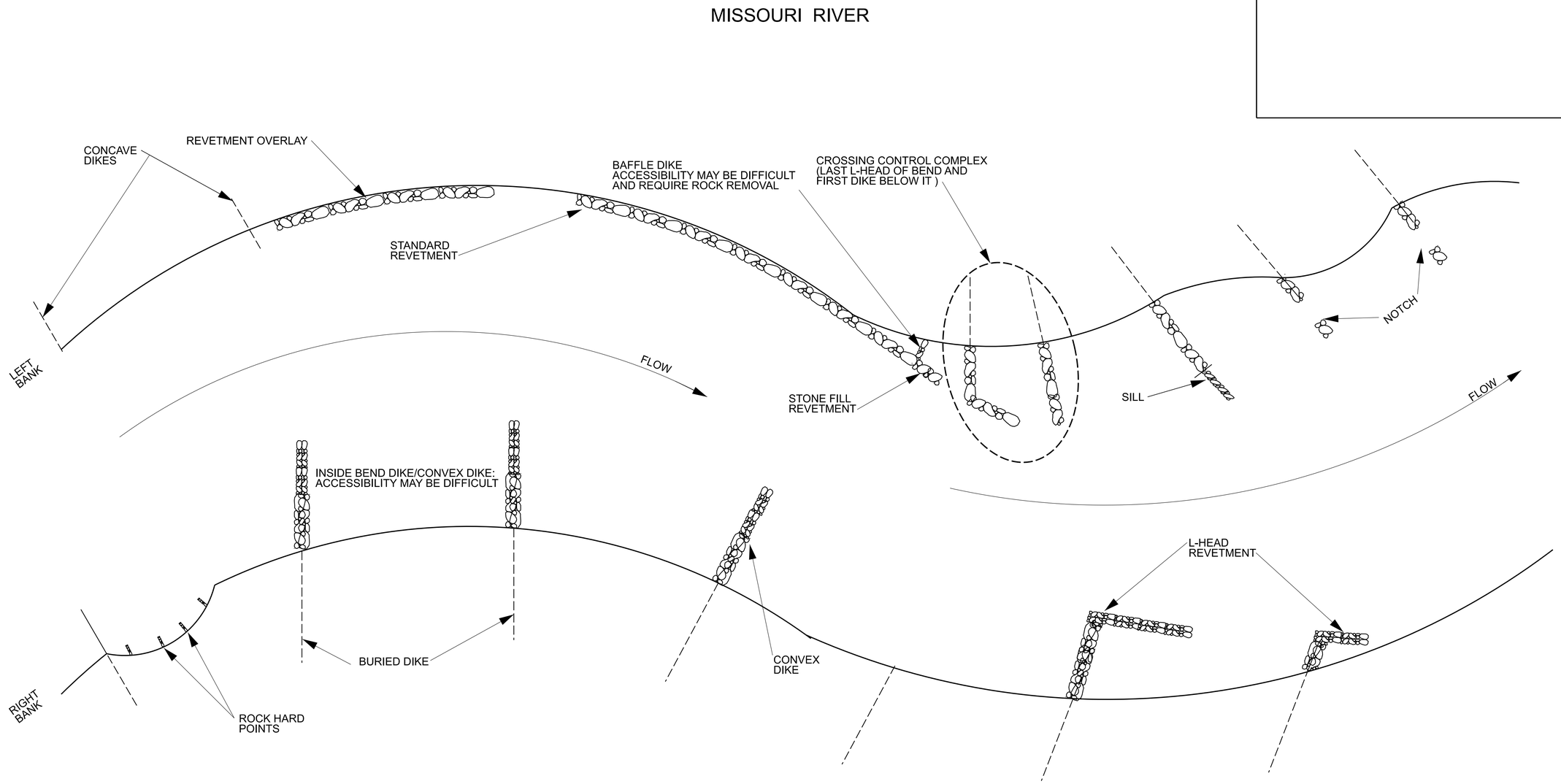
2:36:41 PM 2/17/2023 PD: NWK_pdf.pltcfg DS: NWK_Screen.dscript

SHEET NOTES

1. STANDARD REVETMENT IS PLACED ON A GRADED BANK AND SUPPORTED BY THE BANK. STONE FILL REVETMENT IS PLACED AWAY FROM THE BANK AS A LINEAR STONE FILL OF ROCK.
2. THIS SCHEMATIC IS SHOWN FOR INFORMATION PURPOSES ONLY.



A1 MO RIVER BANK STABILIZATION STRUCTURE LAYOUT (TYPICAL - FOR INFORMATION ONLY)
SCALE: NTS

US Army Corps of Engineers®

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N.CHRISMAN	FEBRUARY 2023
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M. GOSSENAUER	
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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

MO RIVERNAK STABILIZATION
STRUCTURE LAYOUT

SHEET ID
G-004

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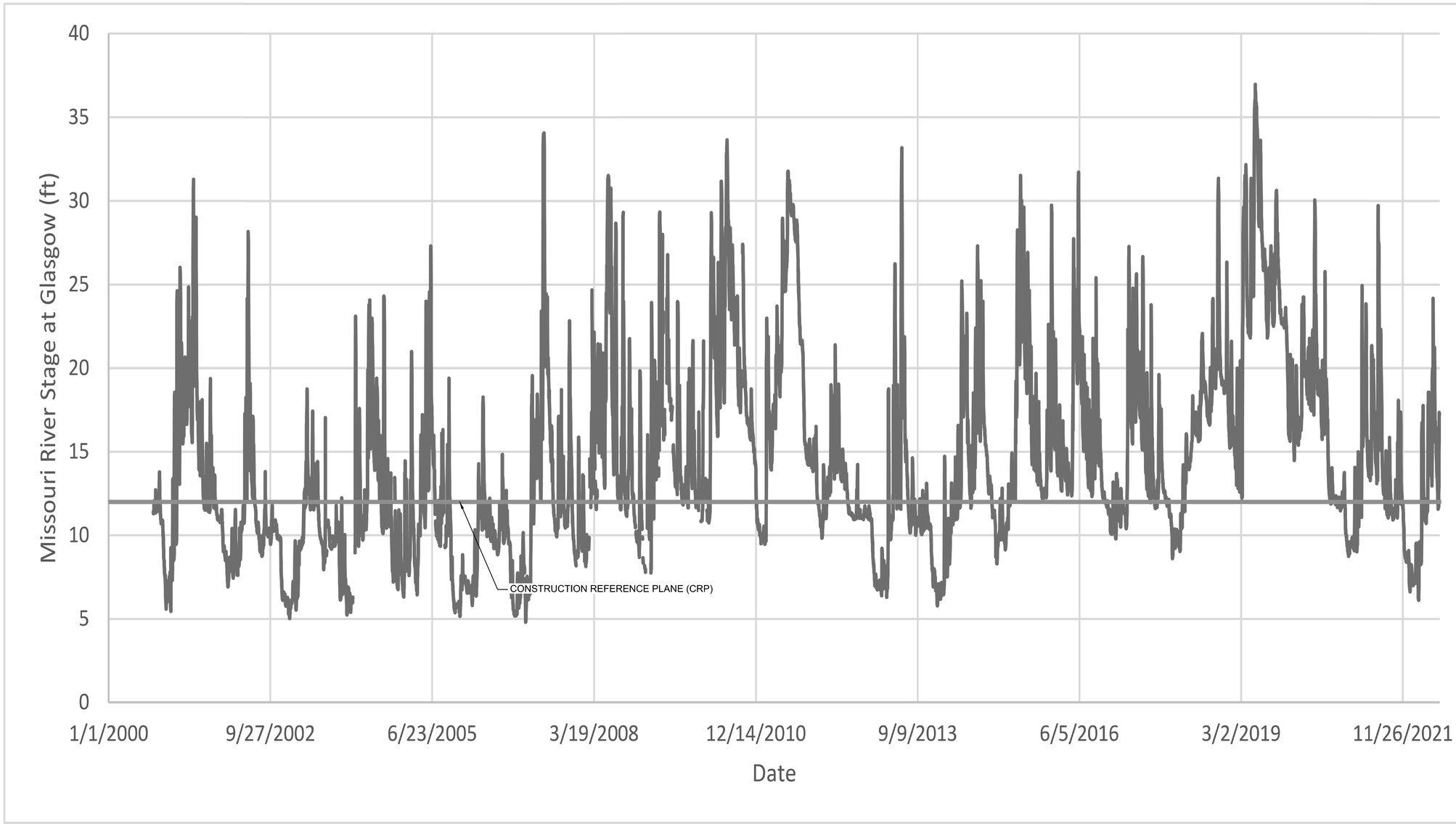

NOTES:

1. MISSOURI RIVER USGS GAGE AT GLASGOW, MO IS LOCATED AT RIVER MILE 226.4.
2. FLOOD STAGE CORRESPONDING TO A GAGE READING AT 25 FT.
3. CONSTRUCTION REFERENCE PLANE (CRP 2017) AT GLASGOW, MO IS A GAGE READING 12.0 FT.
4. CRP ELEVATION AT THE SITE IS ELEVATION 588.1 AT THE CHUTE ENTRANCE, AND ELEVATION 585.6 AT MID CHUTE. (NAVD88)
4. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY, AND IS TO BE USED TO ILLUSTRATE HISTORIC RIVER STAGES AT GLASGOW, MO. STAGE TRENDS AT PROJECT SITE WILL BE SIMILAR, BUT NOT EXACT.

A1 MISSOURI RIVER HYDROGRAPH 2000 - 2021
SCALE: NTS

US Army Corps of Engineers®

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DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
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HYDROGRAPH

SHEET ID
G-005

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A1 OVERALL SITE
SCALE: 1" = 600'

PLAN NORTH

0 500' 1000'

GENERAL SHEET NOTES

LEGEND

- EXISTING REVETMENT/DIKE
- 5.4 MISSOURI RIVER MILE
- NEW WORK
- CONSTRUCTION LIMITS
- STAGING LIMITS

US Army Corps of Engineers®

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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

OVERALL SITE

SHEET ID
C-100

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2:44:14 PM 2/17/2023 PD: NWK_pdf.pltcfg DS: NWK_Screen.dscript

GENERAL SHEET NOTES

1. TREES WITHIN THE CONSTRUCTION LIMITS HAVE BEEN PREVIOUSLY CUT AND LEFT IN PLACE. SEE C1/CS501 FOR DETAILS. SEE 31 11 00 CLEARING AND GRUBBING FOR DETAILS.
2. EXISTING TERAIN IS A COMBINATION OF 2020 LIDAR, MAY 2022 SURVEY, AND AUGUST 2022 SURVEY. IMAGERY IS FROM DECEMBER 2021 AT -3.3 CRP. IT MAY NOT REPRESENT CURRENT CONDITIONS OR THE CONDITIONS DURING CONSTRUCTION.
3. SURVEY DATUM IS UTM-15N NAD83, US SURVEY FEET. VERTICAL DATUM IS NAVD88.
4. WORK ACCESSIBLE BY FLOATING PLANT ONLY. ALL ROCK AND EQUIPMENT MUST BE OFF-LOADED FROM BARGES. CONTRACTOR MAY MODIFY BANKS OR SANDBARS TO CONSTRUCT RAMPS AND WORK PAD AS REQUIRED WITHIN STAGING LIMITS. BANKS WITHOUT BANK PAVING SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
5. CONTRACTOR MAY BUILD A HAUL ROAD ACROSS THE CHUTE ENTRANCE UPSTREAM OF THE EXISTING CONTROL STRUCTURE. AFTER CONSTRUCTION, THE HAUL ROAD MUST BE LOWERED TO MATCH THE TOP ELEVATION OF THE EXISTING CONTROL STRUCTURE BETWEEN THE RIGHT BANK AND REVETMENT 225.3. FROM REVETMENT 225.3 TO THE LEFT BANK THE HAUL ROAD MUST BE REMOVED IN ITS ENTIRETY. THE EXISTING REVEMENT 225.3 MUST BE RESTORED TO PRE-CONSTRUCTION CONDITION USING TYPE 2 STONE. HAUL ROAD MATERIAL MAY BE SPOILED ALONG RIGHT BANK OF CHUTE, UPSTREAM OF EXISTING CONTROL STRUCTURE NO MORE THAN 3' THICK, AND SHALL NOT BE REUSED TO CONSTRUCT ANY STRUCTURE UNDER THIS CONTRACT.
6. ROCK MAY BE PLACED ON SAND BAR AS NEEDED TO STABILIZE WORK PAD DURING CONSTRUCTION. AFTER CONSTRUCTION, ANY ROCK PLACED MUST BE REMOVED AND PLACED ALONGSIDE DIKE 225.0 AS DIRECTED BY THE CONTRACTING OFFICER AND SHALL NOT BE REUSED TO CONSTRUCT ANY STRUCTURE UNDER THIS CONTRACT.
7. EXISTING DIKE 225.0 MAY BE RAISED TO ELEVATION 593.0, EXISTING NOTCHES FILLED, AND DIKE WIDENED AS NEEDED TO BUILD A HAUL ROAD. AFTER CONSTRUCTION, DIKE MUST BE LOWERED TO ELEVATION 591, EXCLUDING THE PORTION OF THE DIKE TO BE RAISED ACCORDING TO SHEET CS101, BY DISPOSING OF ROCK ON EITHER SIDE OF DIKE 225.0. NOTCHES MUST BE RESTORED TO PRE-CONSTRUCTION CONDITION.

LEGEND

- CONSTRUCTION LIMITS
- STAGING AREA
- EXISTING DIKE/REVEMENT
- 6.1 MISSOURI RIVER MILE

CONSTRUCTION LIMITS		
POINTS	NORTHING	EASTING
1	14,197,883.37	1,665,758.47
2	14,196,499.24	1,664,558.54
3	14,196,256.29	1,664,673.08
4	14,196,180.72	1,664,526.33
5	14,196,645.11	1,664,345.73
6	14,197,014.85	1,664,096.75
7	14,197,150.12	1,663,762.60
8	14,197,022.69	1,663,614.03
9	14,196,813.91	1,663,681.66
10	14,196,620.04	1,663,672.95
11	14,196,320.62	1,663,693.78
12	14,195,799.63	1,663,579.93
13	14,195,547.87	1,663,419.44
14	14,195,595.75	1,663,336.69
15	14,195,658.17	1,663,251.95
16	14,196,315.43	1,663,056.89
17	14,196,307.99	1,662,959.91
18	14,196,824.02	1,662,920.32
19	14,197,154.85	1,662,733.99
20	14,197,386.84	1,662,546.36
21	14,197,416.59	1,662,323.15
22	14,197,766.44	1,662,222.31
23	14,198,012.96	1,662,708.53
24	14,198,057.80	1,664,672.19

PLAN NORTH

A1 CHUTE ENTRANCE SITE ACCESS
SCALE: 1" = 200'

0 200' 400'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_C-101.dgn
ISSUE DATE: FEBRUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

CHUTE ENTRANCE
SITE ACCESS

SHEET ID
C-101

READY TO ADVERTISE

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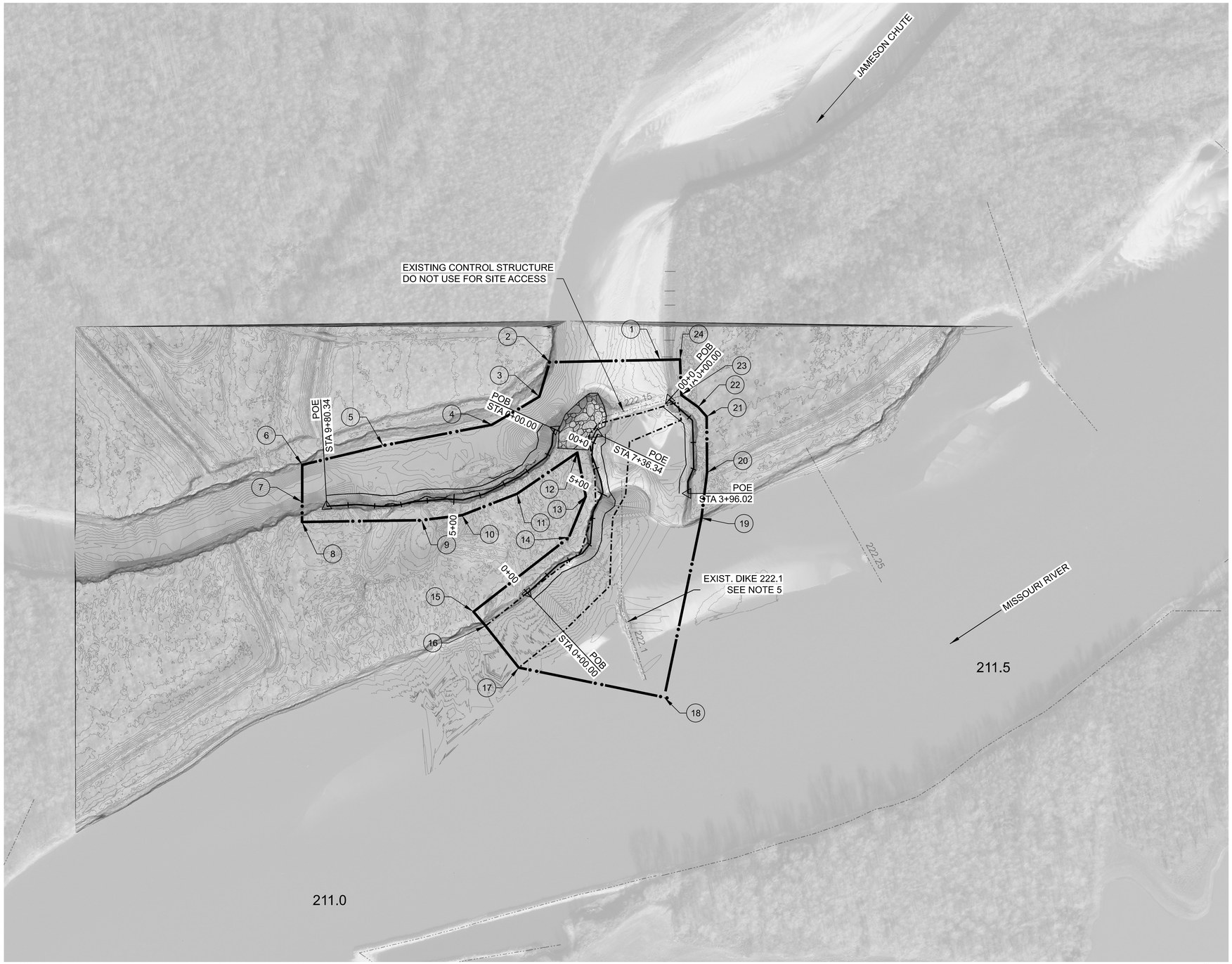

PLAN NORTH

0 200' 400'

A1 MID CHUTE SITE ACCESS
SCALE: 1" = 200'

GENERAL SHEET NOTES

1. TREES WITHIN THE CONSTRUCTION LIMITS HAVE BEEN PREVIOUSLY CUT AND LEFT IN PLACE. SEE C1/CS501 FOR DETAILS. SEE 31 11 00 CLEARING AND GRUBBING FOR DETAILS.
2. EXISTING TERAIN IS A COMBINATION OF 2020 LIDAR, MAY 2022 SURVEY, AND AUGUST 2022 SURVEY. IMAGERY IS FROM DECEMBER 2021 AT -3.3 CRP. IT MAY NOT REPRESENT CURRENT CONDITIONS OR THE CONDITIONS DURING CONSTRUCTION.
3. SURVEY DATUM IS UTM-15N NAD83, US SURVEY FEET. VERTICAL DATUM IS NAVD88.
4. WORK ACCESSIBLE BY FLOATING PLANT ONLY. ALL ROCK AND EQUIPMENT MUST BE OFF-LOADED FROM BARGES. CONTRACTOR MAY MODIFY BANKS OR SANDBARS TO CONSTRUCT RAMPS AND WORK PAD AS REQUIRED WITHIN STAGING LIMITS. BANKS WITHOUT BANK PAVING SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
5. CONTRACTOR MAY ACCESS WORK BY FLOATING PLANT FROM THE DOWNSTREAM CHUTE EXIT. CONTRACTOR SHALL EXAMINE EXIT FOR ADEQUATE DEPTHS AND CLEAREANCE FROM EXISTING REVETMENT AND TREES OR DEBRIS WITHIN CHUTE. EXISTING REVETMENTS AT CHUTE EXIT MAY BE LOWERED WITH APPROVAL FROM THE CONTRACTING OFFICER AND MUST BE RESTORED TO PRE-EXISTING CONDITION BY THE ADDITION OF NEW QUARRY STONE. SALVAGED STONE SHALL NOT BE USED.

LEGEND

- CONSTRUCTION LIMITS
- STAGING AREA
- EXISTING DIKE/REVEMENT
- 6.1 MISSOURI RIVER MILE

CONSTRUCTION LIMITS		
POINTS	NORTHING	EASTING
1	14,189,875.13	1,662,195.32
2	14,189,866.66	1,661,781.16
3	14,189,737.23	1,661,742.05
4	14,189,631.88	1,661,564.55
5	14,189,553.62	1,661,155.41
6	14,189,481.38	1,660,851.54
7	14,189,341.54	1,660,851.54
8	14,189,266.79	1,660,850.78
9	14,189,273.56	1,661,299.78
10	14,189,292.01	1,661,451.54
11	14,189,372.56	1,661,658.41
12	14,189,527.20	1,661,884.74
13	14,189,363.14	1,661,916.63
14	14,189,208.68	1,661,852.98
15	14,188,929.86	1,661,494.89
16	14,188,876.75	1,661,540.35
17	14,188,720.13	1,661,664.73
18	14,188,608.46	1,662,211.36
19	14,189,281.72	1,662,350.99
20	14,189,451.85	1,662,372.12
21	14,189,662.30	1,662,370.74
22	14,189,698.19	1,662,338.85
23	14,189,743.41	1,662,275.49
24	14,189,876.87	1,662,270.56

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_C-102.dgn
ISSUE DATE: FEBRUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

MID CHUTE
SITE ACCESS

SHEET ID
C-102

READY TO ADVERTISE

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GENERAL SHEET NOTES

1. EXISTING TERRAIN IS A COMBINATION OF 2020 LIDAR, MAY 2022 SURVEY, AND AUGUST 2022 SURVEY. IT MAY NOT REPRESENT CURRENT CONDITIONS OR THE CONDITIONS DURING CONSTRUCTION.
2. SURVEY DATUM IS UTM-15N NAD83, US SURVEY FEET. VERTICAL DATUM IS NAVD88.
3. BANK PAVING COORDINATES ARE APPROXIMATE. FINAL COORDINATES WILL BE DETERMINED DURING SITE LAYOUT. CREATE A SMOOTH TRANSITION FOR ALL BANK PAVING END TIE-INS.
4. SEE SPEC 35 31 24.00 23 FOR STONE GRADATION.
5. SEED DISTURBED AREAS WITH TEMPORARY SEED MIX IN ACCORDANCE WITH SPECIFICATION 32 92 19 SEEDING.

LEGEND

- CONSTRUCTION LIMITS
- STAGING AREA
- NEW WORK
- GRADING LIMIT
- EXISTING DIKE/REVEMENT
- 6.1 MISSOURI RIVER MILE

BANK PAVING ALIGNMENTS

CHUTE ENT: RIGHT BANK

POINT	STATION	EASTING	NORTHING
POB	0+00	14,196,969.50	1,662,947.54
PI 1	1+86.62	14,196,790.60	1,663,000.68
PI 2	2+54.24	14,196,726.60	1,663,022.52
PI 3	3+00.73	14,196,680.53	1,663,016.34
PI 4	3+85.51	14,196,596.39	1,663,026.78
PI 5	4+48.36	14,196,533.80	1,663,032.44
POE	5+86.63	14,196,395.59	1,663,036.39

CHUTE ENT: LEFT BANK

POINT	STATION	EASTING	NORTHING
POB	0+00	14,196,304.95	1,664,553.40
PI 1	1+52.35	14,196,445.98	1,664,495.79
PI 2	2+73.22	14,196,552.52	1,664,438.70
PI 3	3+51.78	14,196,623.11	1,664,404.22
PI 4	4+53.42	14,196,713.92	1,664,358.56
PI 5	5+93.46	14,196,838.40	1,664,294.40
PI 6	7+47.82	14,196,970.97	1,664,215.33
PI 7	7+90.26	14,197,009.47	1,664,197.49
PI 8	8+87.19	14,197,081.02	1,664,132.09
PI 9	9+16.07	14,197,100.23	1,664,110.52
PI 10	10+72.77	14,197,164.51	1,663,967.61
PI 11	12+35.09	14,197,215.75	1,663,813.59
PI 12	13+83.56	14,197,213.10	1,663,665.14
PI 13	15+30.28	14,197,180.90	1,663,522.01
PI 14	15+85.04	14,197,167.60	1,663,468.89
PI 15	16+06.25	14,197,152.93	1,663,453.57
PI 16	16+57.10	14,197,107.32	1,663,431.09
PI 17	17+24.76	14,197,045.22	1,663,457.98
PI 18	18+24.76	14,196,981.79	1,663,535.29
PI 19	19+60.89	14,196,860.34	1,663,596.77
PI 20	20+18.11	14,196,805.01	1,663,611.37
PI 21	20+99.93	14,196,728.71	1,663,581.82
PI 22	22+05.88	14,196,624.51	1,663,600.96
PI 23	23+28.12	14,196,502.72	1,663,590.42
PI 24	24+84.69	14,196,346.93	1,663,605.97
PI 25	25646.37	14,196,287.16	1,663,621.20
PI 26	26+90.59	14,196,146.39	1,663,589.82
PI 27	28+43.74	14,196,000.01	1,663,544.82
PI 28	30+38.95	14,195,809.48	1,663,502.30
POE	32+26.46	14,195,647.83	1,663,407.29

A1 CHUTE ENTRANCE SITE PLAN
SCALE: 1" = 100'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_CS101.dgn
ISSUE DATE: FEBRUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

CHUTE ENTRANCE
SITE PLAN

SHEET ID
CS101

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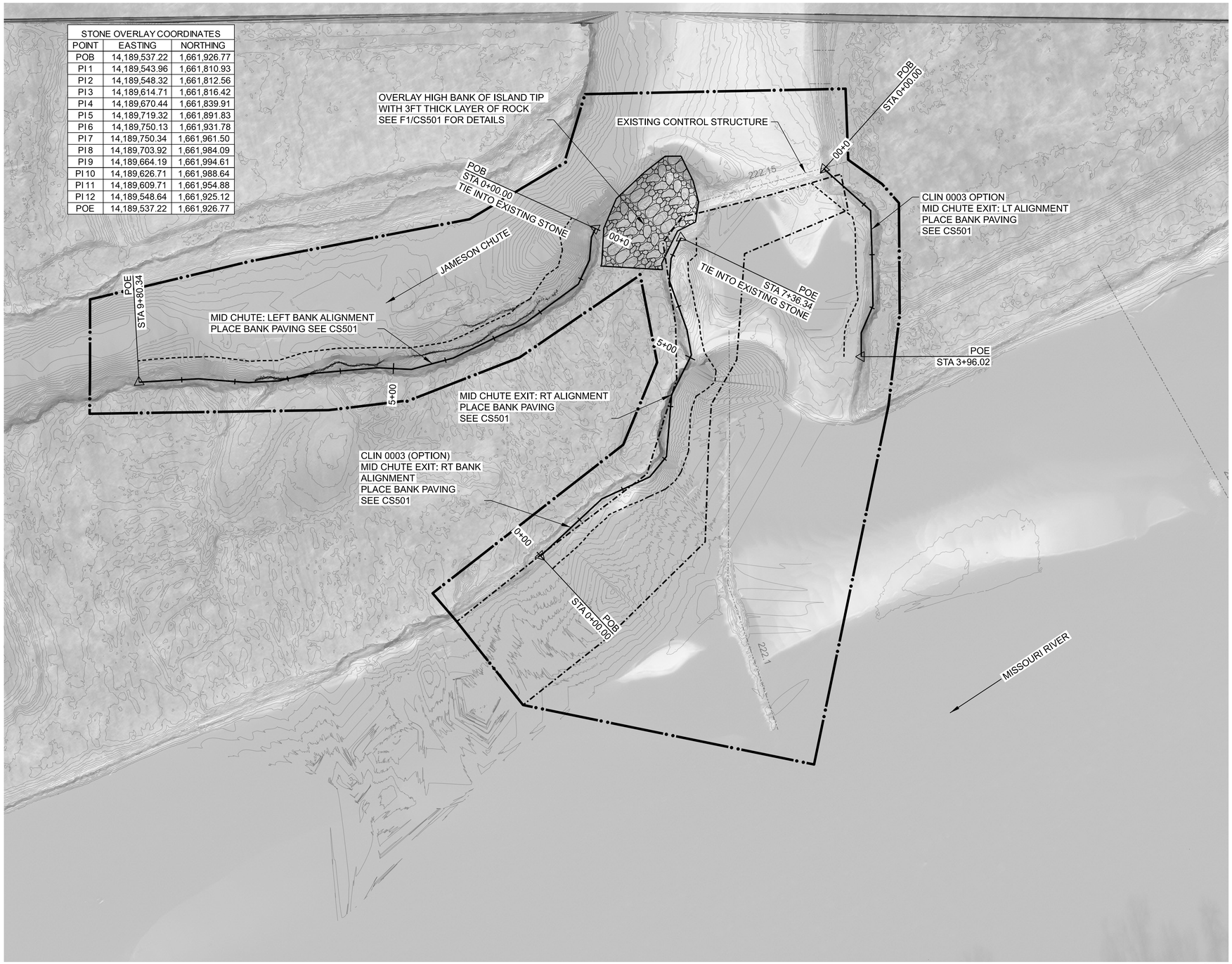

STONE OVERLAY COORDINATES		
POINT	EASTING	NORTHING
POB	14,189,537.22	1,661,926.77
PI 1	14,189,543.96	1,661,810.93
PI 2	14,189,548.32	1,661,812.56
PI 3	14,189,614.71	1,661,816.42
PI 4	14,189,670.44	1,661,839.91
PI 5	14,189,719.32	1,661,891.83
PI 6	14,189,750.13	1,661,931.78
PI 7	14,189,750.34	1,661,961.50
PI 8	14,189,703.92	1,661,984.09
PI 9	14,189,664.19	1,661,994.61
PI 10	14,189,626.71	1,661,988.64
PI 11	14,189,609.71	1,661,954.88
PI 12	14,189,548.64	1,661,925.12
POE	14,189,537.22	1,661,926.77

A1 MID CHUTE SITE PLAN
SCALE: 1" = 100'

GENERAL SHEET NOTES

1. TREES WITHIN THE CONSTRUCTION LIMITS HAVE BEEN PREVIOUSLY CUT AND LEFT IN PLACE. SEE 31 11 00 CLEARING AND GRUBBING FOR DETAILS.
2. EXISTING TERAIN IS A COMBINATION OF 2020 LIDAR, MAY 2022 SURVEY, AND AUGUST 2022 SURVEY. IT MAY NOT REPRESENT CURRENT CONDITIONS OR THE CONDITIONS DURING CONSTRUCTION.
3. SURVEY DATUM IS UTM-15N NAD83, US SURVEY FEET. VERTICAL DATUM IS NAVD88.
4. BANK PAVING COORDINATES ARE APPROXIMATE. FINAL COORDINATES WILL BE DETERMINED DURING SITE LAYOUT. CREATE A SMOOTH TRANSITION FOR ALL BANK PAVING END TIE-INS.
5. SEE SPEC 35 31 24.00 23 FOR STONE GRADATION.
6. SEED DISTURBED AREAS WITH TEMPORARY SEED MIX IN ACCORDANCE WITH SPECIFICATION 32 92 19 SEEDING.

LEGEND

- CONSTRUCTION LIMITS
- STAGING AREA
- NEW WORK
- GRADING LIMIT
- EXISTING DIKE/REVEMENT
- 6.1 MISSOURI RIVER MILE

BANK PAVING ALIGNMENTS

MID CHUTE EXIT: LT			
POINT	STATION	EASTING	NORTHING
POB	0+00	14,189,726.16	1,662,230.07
PI 1	1+17.11	14,189,648.13	1,662,317.39
PI 2	1+95.49	14,189,569.80	1,662,320.12
PI 3	2+95.61	14,189,469.70	1,662,322.07
PI 4	3+51.23	14,189,418.68	1,662,299.92
POE	3+96.02	14,189,373.89	1,662,300.08

MID CHUTE EXIT: RT			
POINT	STATION	EASTING	NORTHING
POB	0+00	14,188,999.80	1,661,697.77
PI 1	1+57.27	14,189,107.06	1,661,812.79
PI 2	2+56.48	14,189,148.34	1,661,903.00
PI 3	3+05.70	14,189,186.47	1,661,934.13
PI 4	4+22.06	14,189,302.43	1,661,943.82
PI 5	5+05.53	14,189,377.15	1,661,981.03
PI 6	5+52.93	14,189,423.81	1,661,972.76
PI 7	6+51.52	14,189,516.65	1,661,939.59
PI 8	6+93.11	14,189,558.13	1,661,942.80
POE	7+36.34	14,189,597.10	1,661,961.51

MID CHUTE: LEFT BANK			
POINT	STATION	EASTING	NORTHING
POB	0+00	14,189,614.51	1,661,800.77
PI 1	0+18	14,189,598.12	1,661,793.33
PI 2	0+60.95	14,189,555.32	1,661,789.72
PI 3	1+11.11	14,189,509.88	1,661,768.48
PI 4	2+34.12	14,189,437.18	1,661,669.25
PI 5	3+84.19	14,189,371.55	1,661,534.29
PI 6	4+66.29	14,189,350.02	1,661,455.07
PI 7	5+30.65	14,189,353.00	1,661,390.78
PI 8	6+60.37	14,189,341.62	1,661,261.55
PI 9	7+16.71	14,189,328.56	1,661,206.75
PI 10	7+74.53	14,189,325.22	1,661,149.02
PI 11	8+68.21	14,189,332.38	1,661,055.62
POE	9+80.34	14,189,325.94	1,660,943.67

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N.CHRISMAN	FEBRUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
M. GOSSENAUER	
SIZE:	MR_BS_JM_CS102.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

MID CHUTE
SITE PLAN

SHEET ID
CS102

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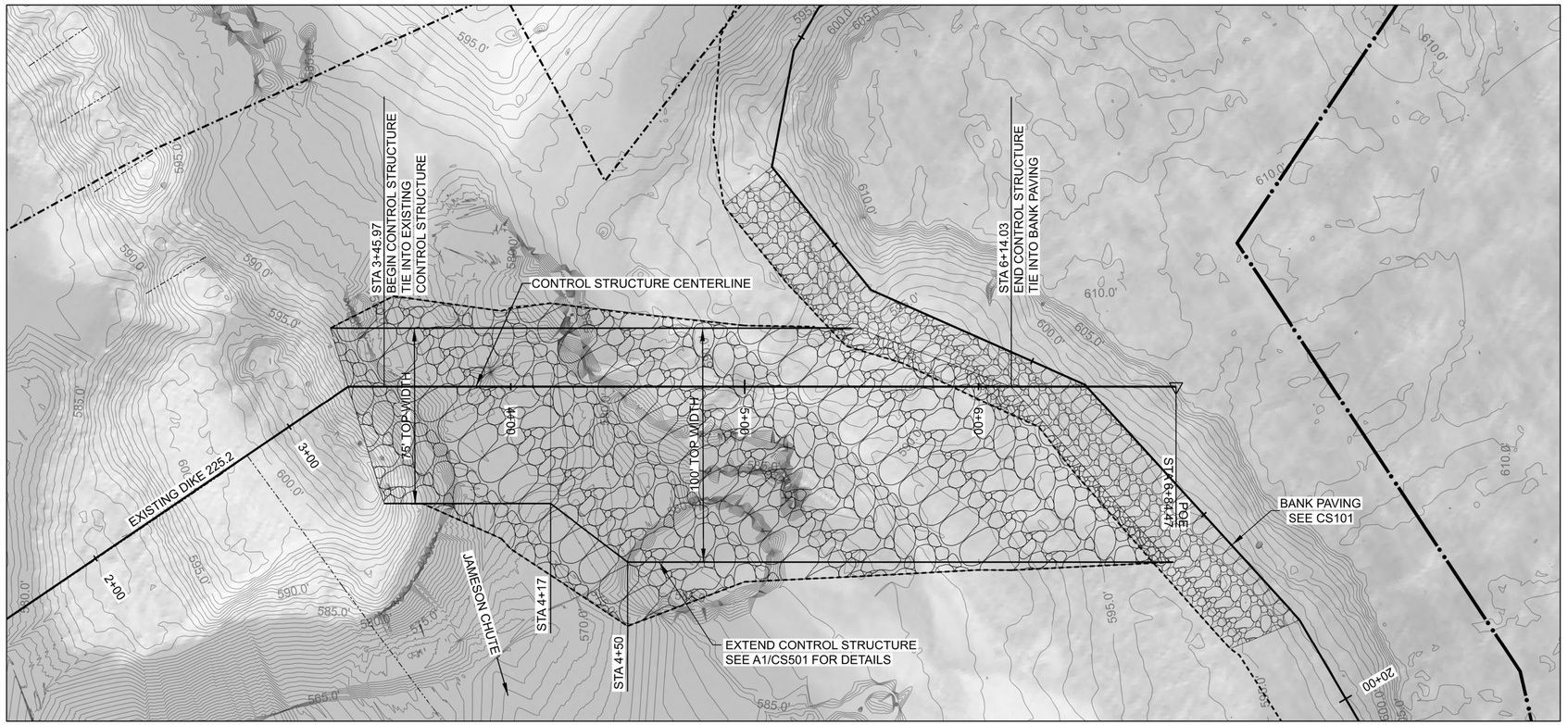
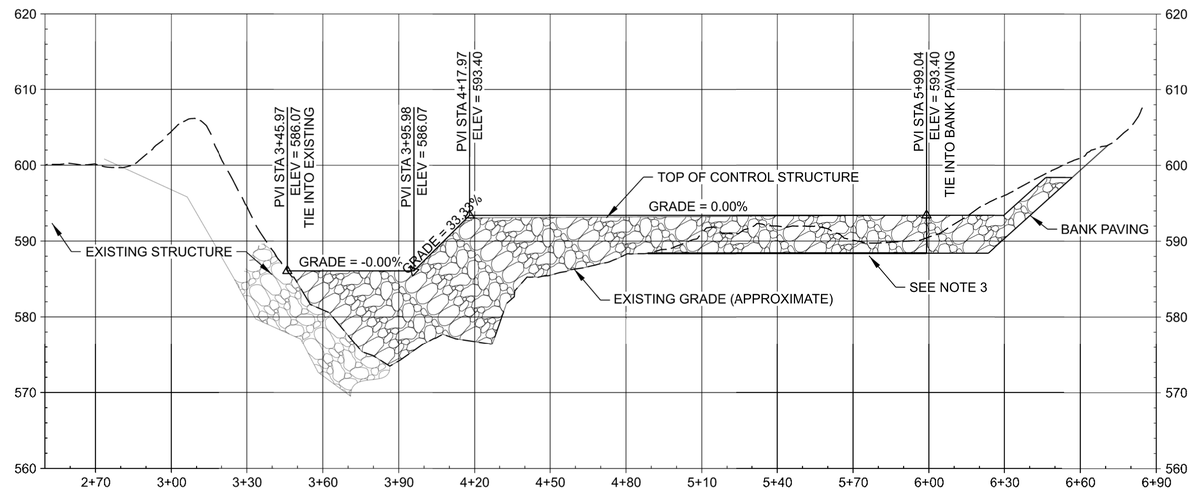


D1 CONTROL STRUCTURE PLAN

SCALE: 1"=30'

0 30' 60'



A1 CONTROL STRUCTURE PROFILE

SCALE: 1"=30'
VERTICAL SCALE: 1"=10'

0 30' 60'
0 10' 20'

GENERAL SHEET NOTES

1. START AND END COORDINATES OF CONTROL STRUCTURES MAY VARY DEPENDING ON BANK LOCATION AT THE TIME OF CONSTRUCTION
2. RIVER BED TERRAIN IS APPROXIMATE AND IS SUBJECT TO CHANGE PRIOR TO OR DURING CONSTRUCTION
3. EXCAVATE AS REQUIRED. PLACE SPOIL DOWNSTREAM AND OUTSIDE OF THE FOOTPRINT OF ANY STRUCTURES.

LEGEND

- CONSTRUCTION LIMITS
- STAGING AREA
- NEW WORK
- GRADING LIMIT
- EXISTING DIKE/REVEMENT
- 6.1 MISSOURI RIVER MILE

CONTROL STRUCTURE ALIGNMENT

CHUTE ENT: CONTROL STRUCTURE			
POINT	STATION	EASTING	NORTHING
POB	0+00	14,196,959.44	1,662,918.34
PI 1	3+30.69	14,197,065.21	1,663,231.65
POE	6+84.47	14,196,970.57	1,663,572.54

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: MR_BS_JM_CS103.dgn
ISSUE DATE: APRIL 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

CONTROL STRUCTURE PLAN AND PROFILE

SHEET ID

CS103

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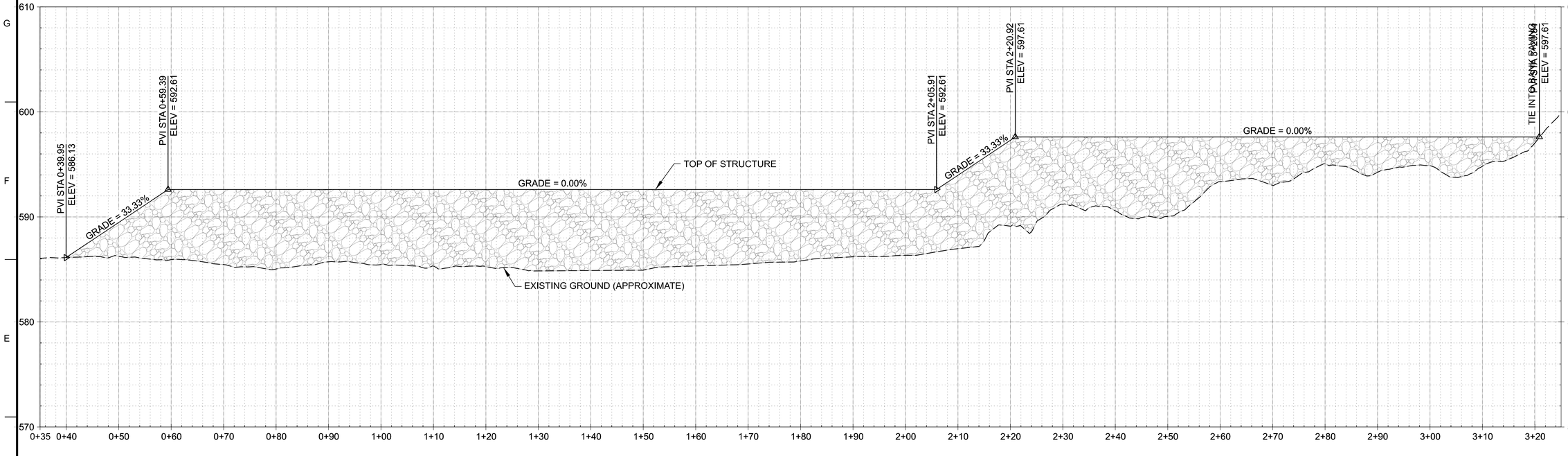
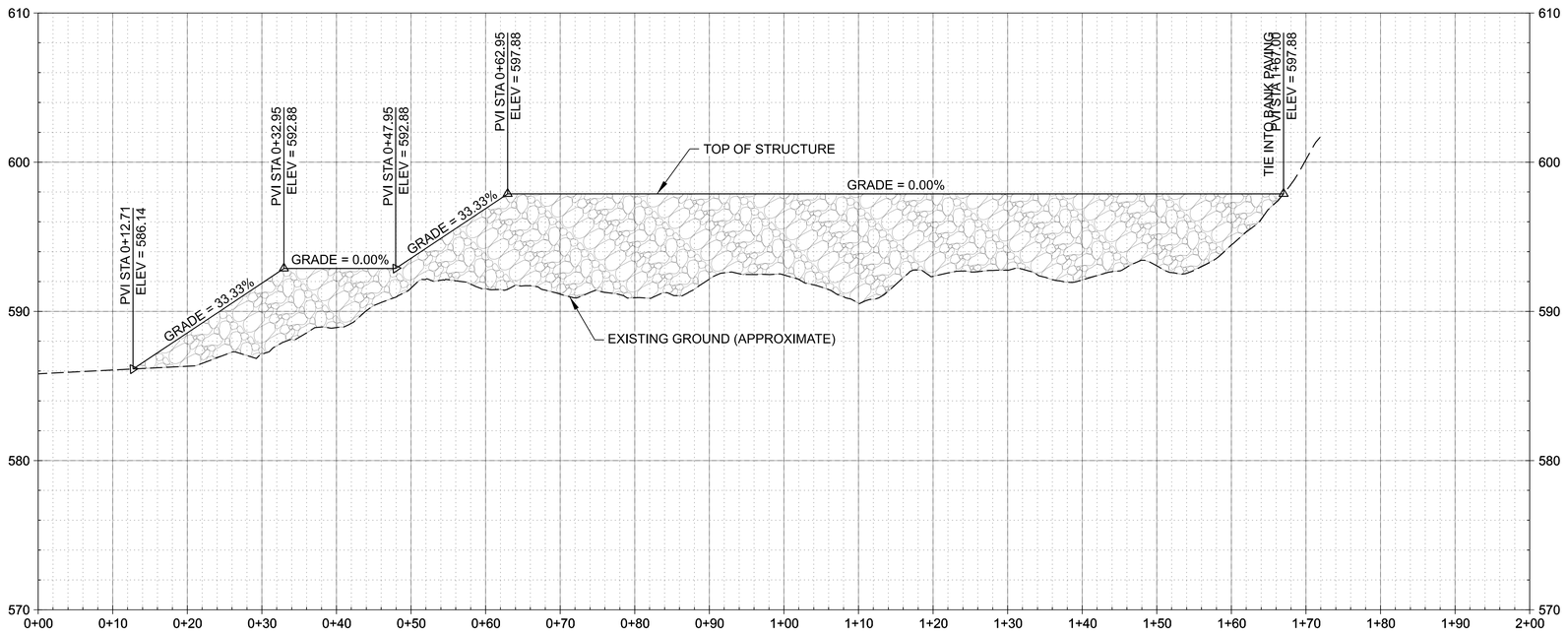


D1 EXISTING DIKE RAISE AND EXTENTION 224.7 - PROFILE

SCALE: 1"=10'

0 10' 20'



A1 EXISTING DIKE RAISE AND EXTENTION 225.0 - PROFILE

SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	N.CHRISMAN
DRAWN BY:	C. FORSYTHE
CHECKED BY:	M. CHAPMAN
SUBMITTED BY:	M. GOSSENAUER
SIZE:	MR_BS_JM_CS201.dgn
ISSUE DATE:	FEBRUARY 2023
SOLICITATION NO.:	SEE COVER SHEET
CONTRACT NO.:	SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

DIKE PROFILES

SHEET ID

CS201

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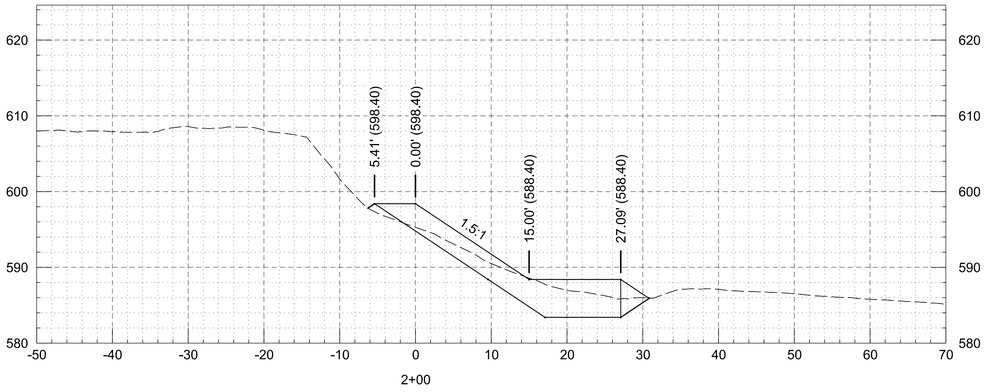
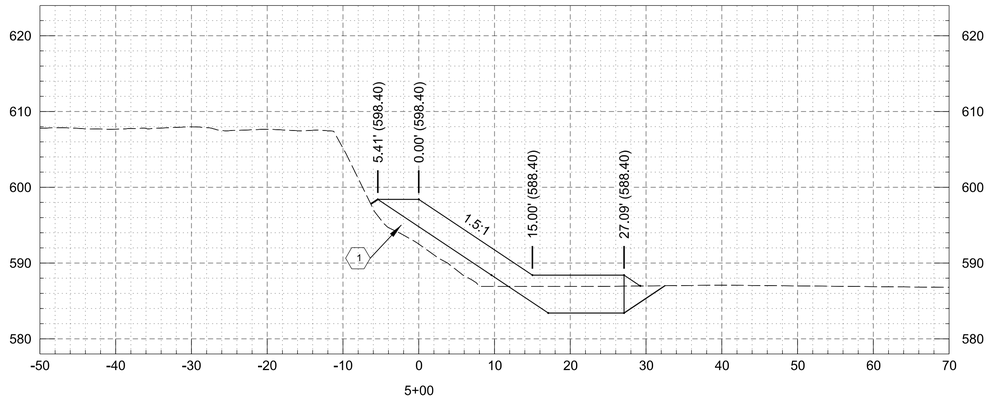
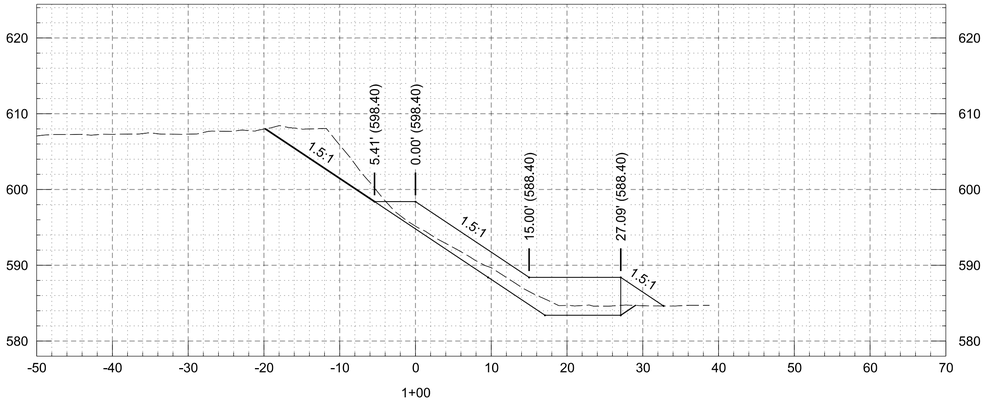
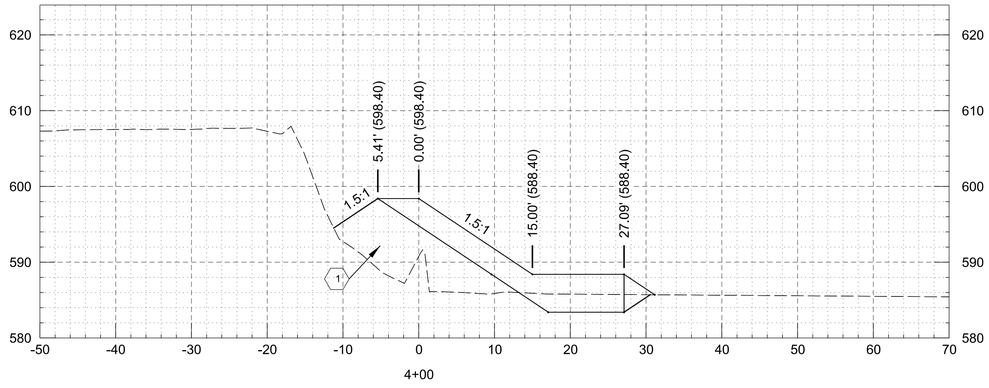
KEYNOTES

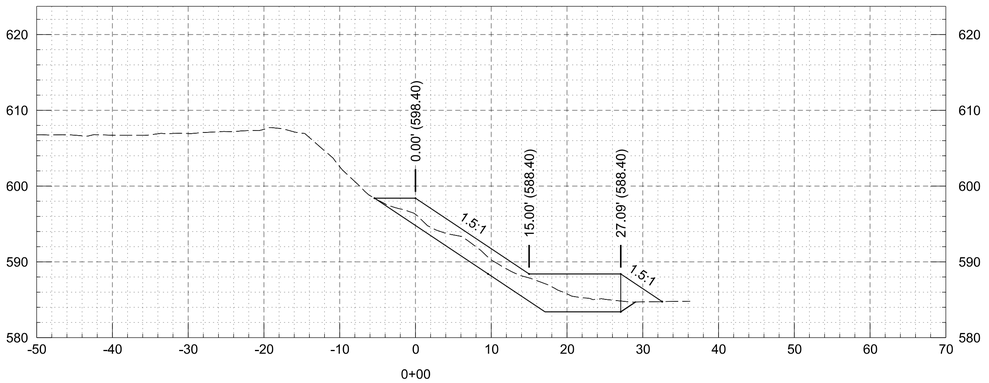
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.

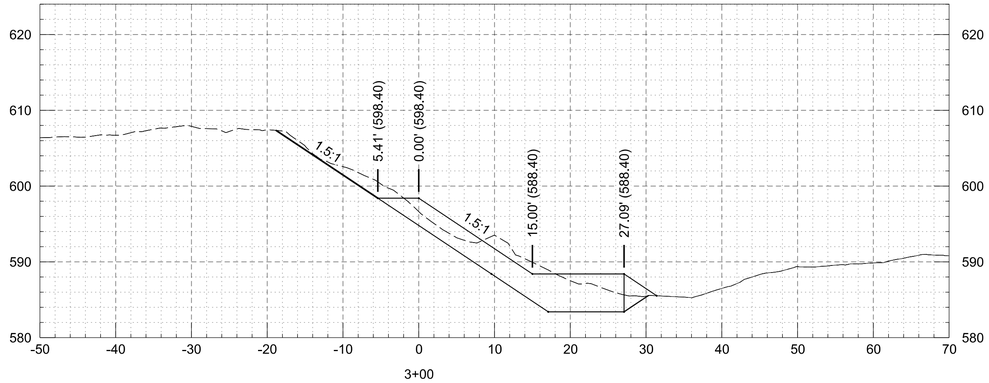












A1 CHUTE ENT: LEFT BANK - STA 0+00 TO STA 5+00
SCALE: 1:10

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N. CHRISMAN	JANUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	**SEE COVER SHEET**
SUBMITTED BY:	
M. GOSSENAUER	
SIZE: ANSI D	MR_BS_JM_MODEL_C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID
CS301

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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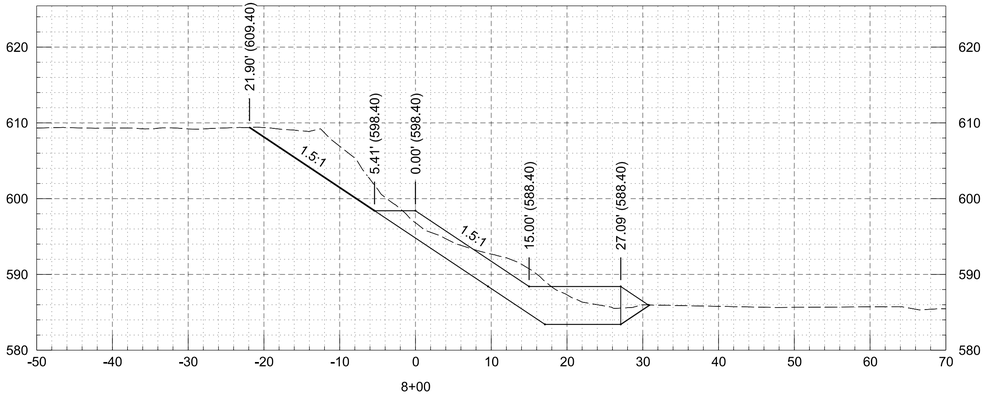
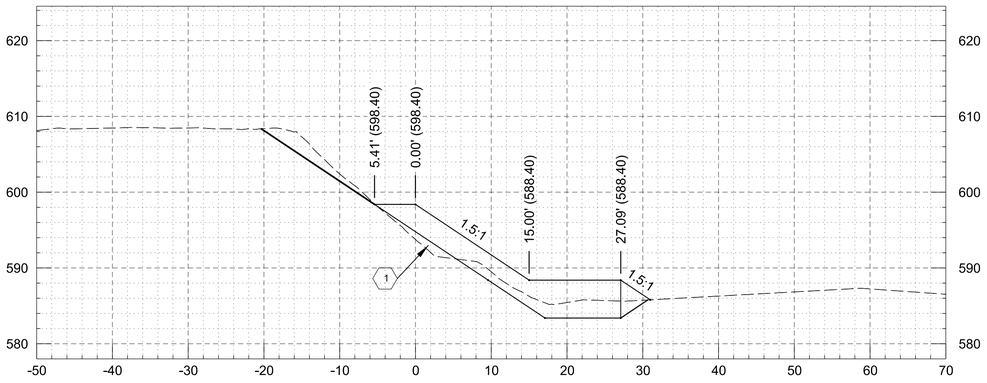
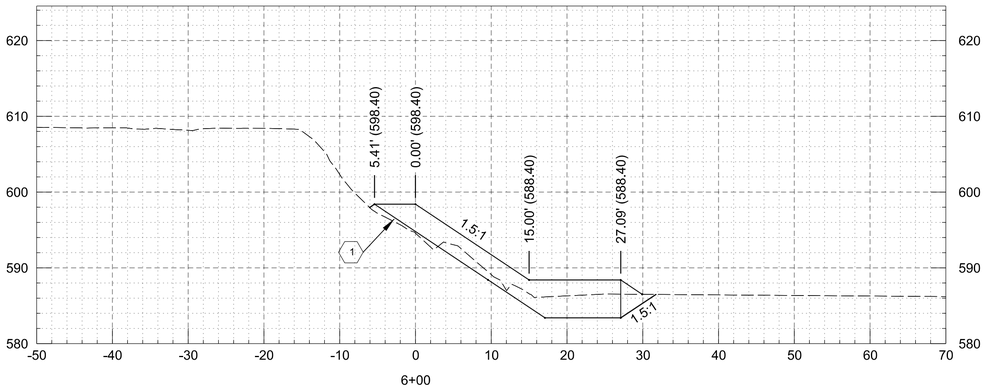
10-16-25 AM 3/31/2023

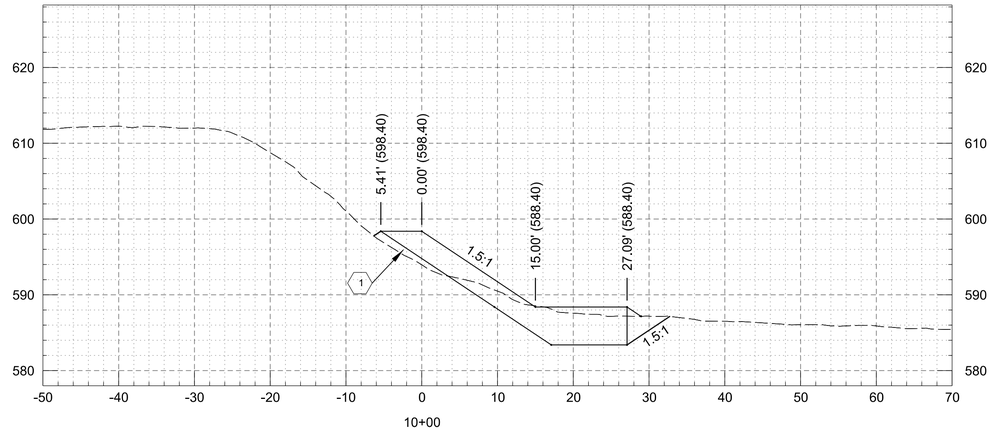
KEYNOTES

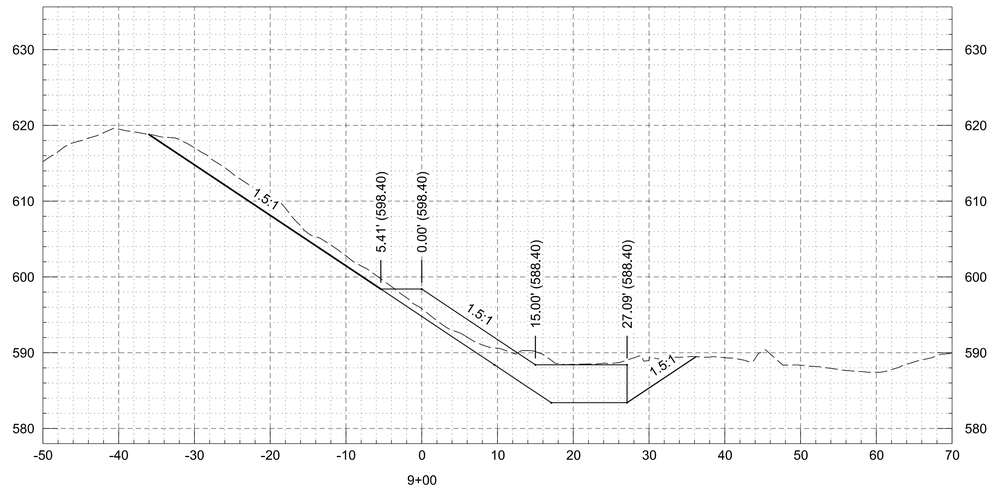
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.











A1 CHUTE ENT: LEFT BANK - STA 6+00 TO STA 10+00
SCALE:

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D
ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2:504097, FY22

CROSS SECTIONS

SHEET ID
CS302

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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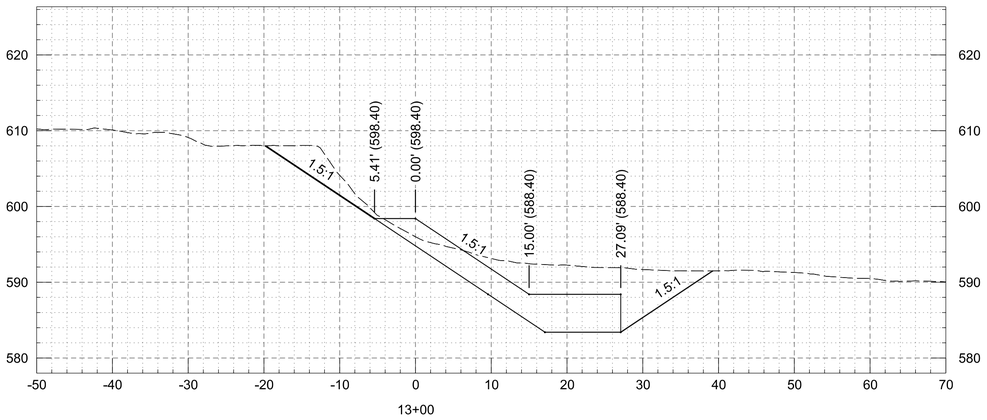
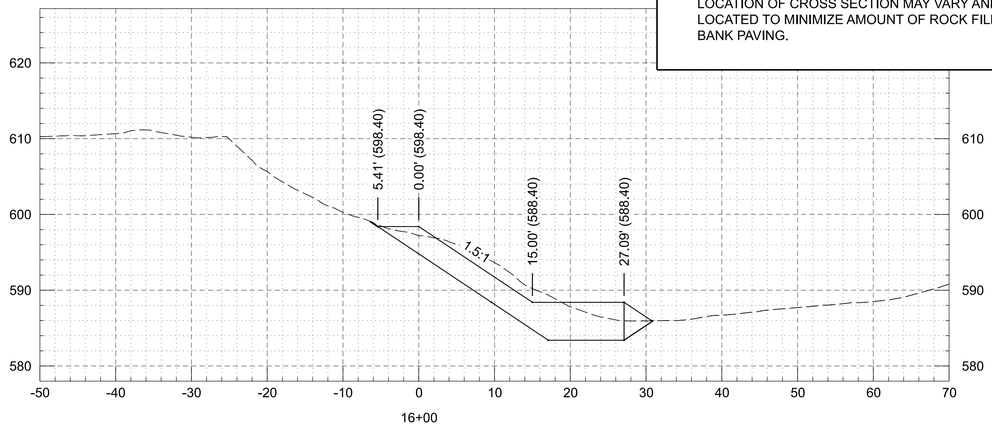
KEYNOTES

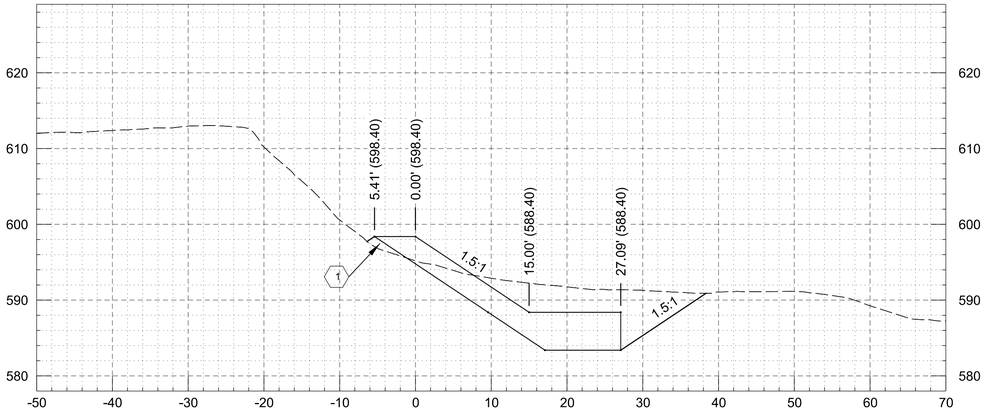
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.



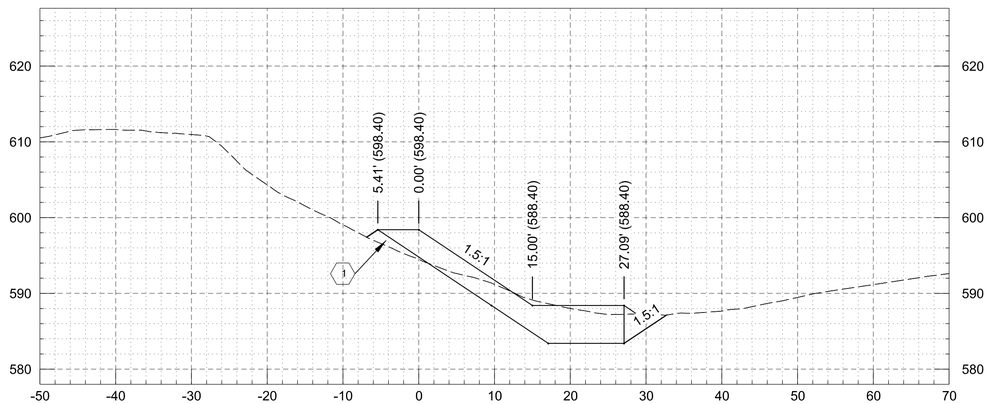
13+00



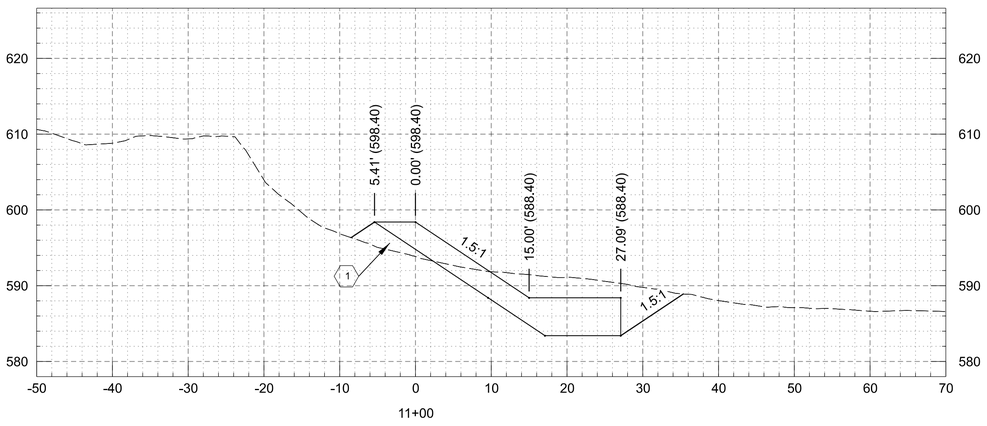
16+00



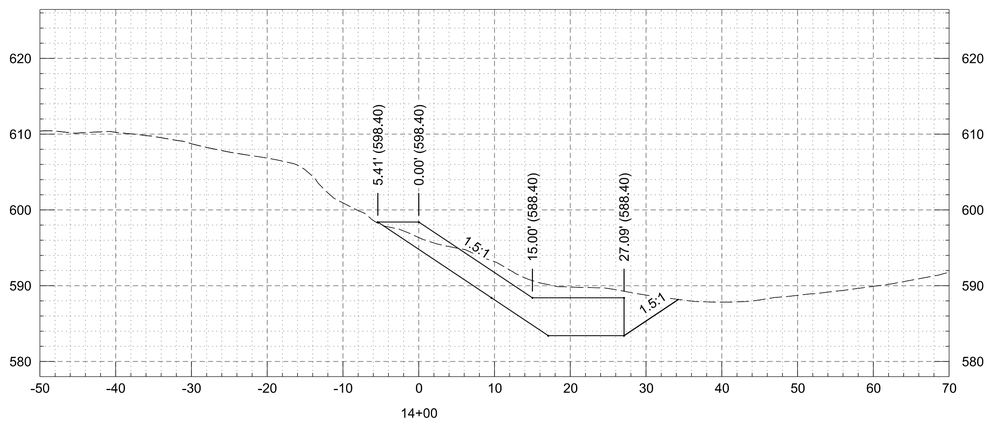
12+00



15+00



11+00



14+00

A1 CHUTE ENT: LEFT BANK - STA 11+00 TO STA 16+00
SCALE: 1":10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DESIGNED BY:	ISSUE DATE:
N. CHRISMAN	JANUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
J.E. GOSSENAUER	
SIZE:	
ANSI D	MR_BS_JM_MODEL_C-XS.dgn

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID

CS303

READY TO ADVERTISE

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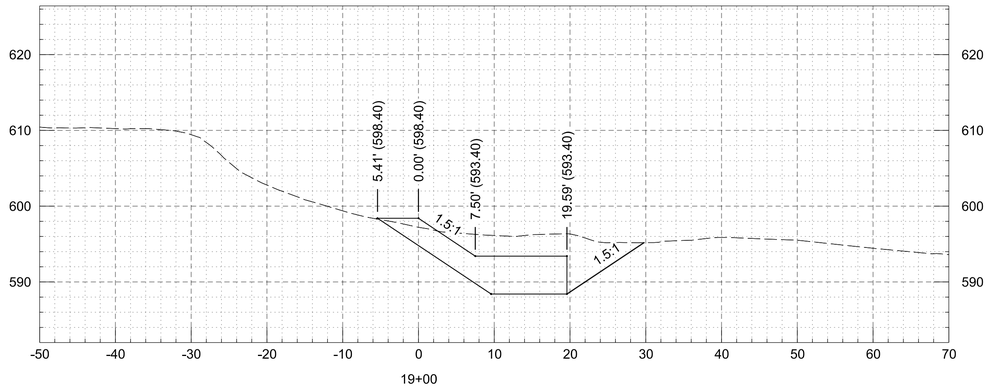
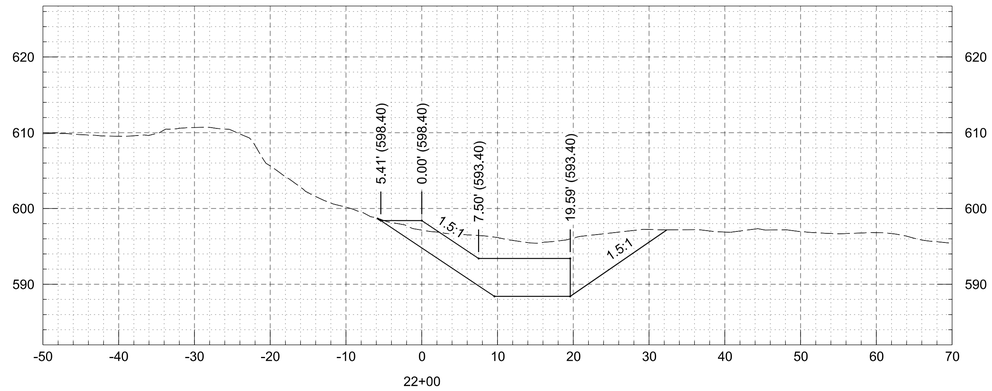
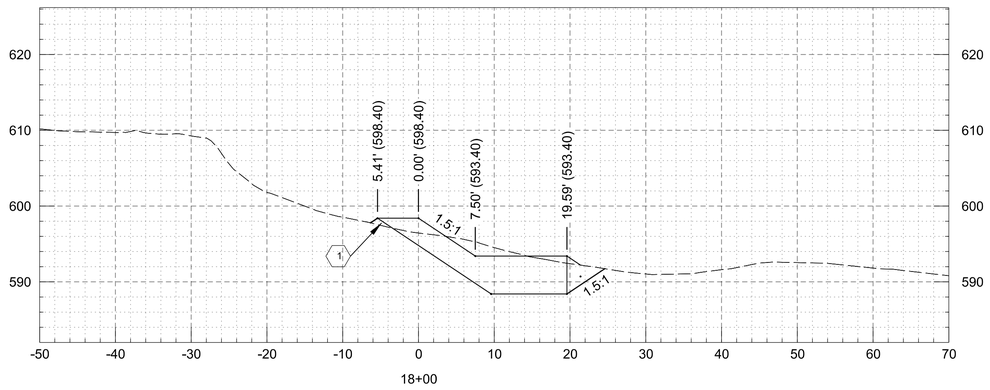
pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

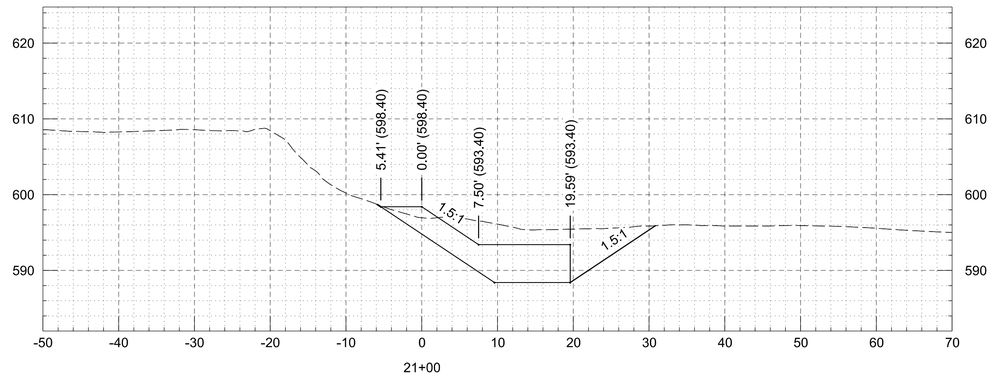
KEYNOTES

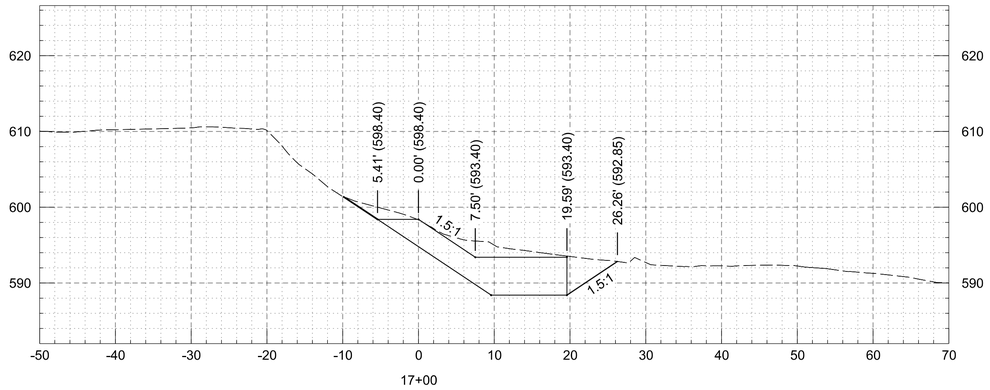
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.

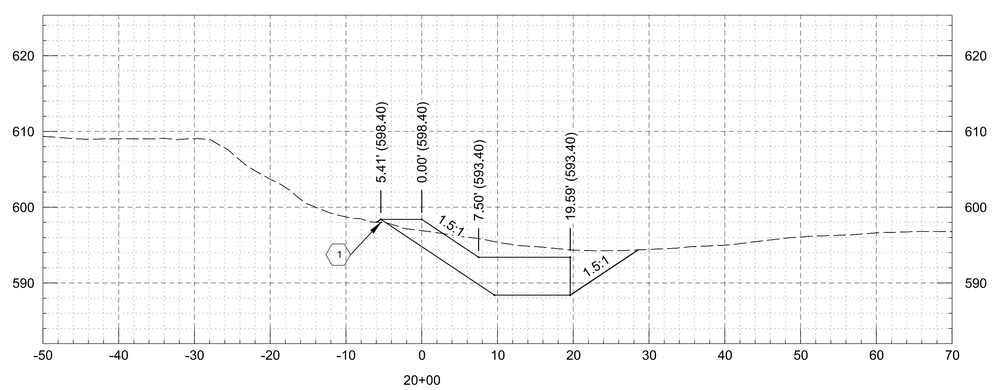












A1 CHUTE ENT: LEFT BANK - STA 17+00 TO STA 22+00

SCALE: 1":10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097 , FY22

CROSS SECTIONS

SHEET ID

CS304

READY TO ADVERTISE

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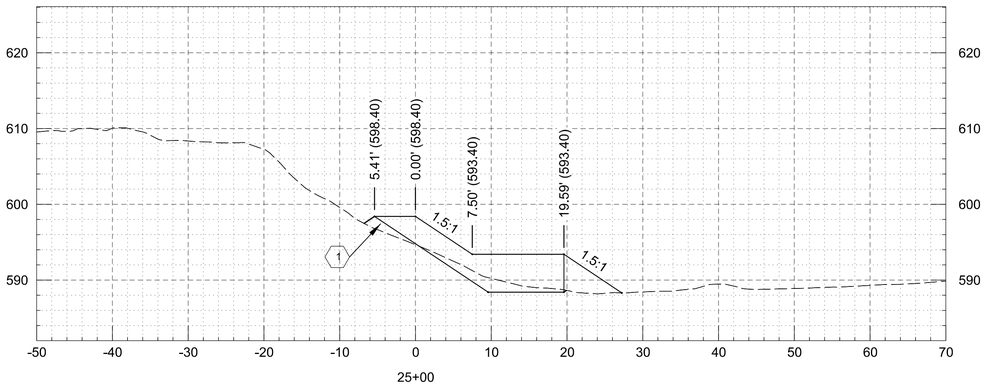
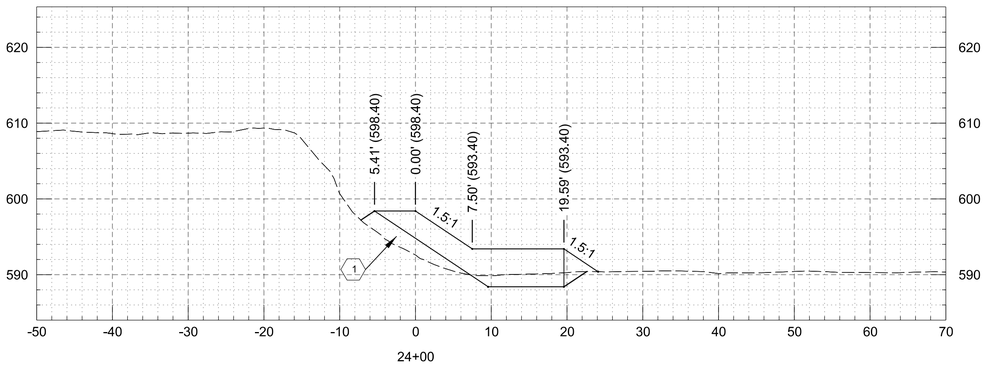
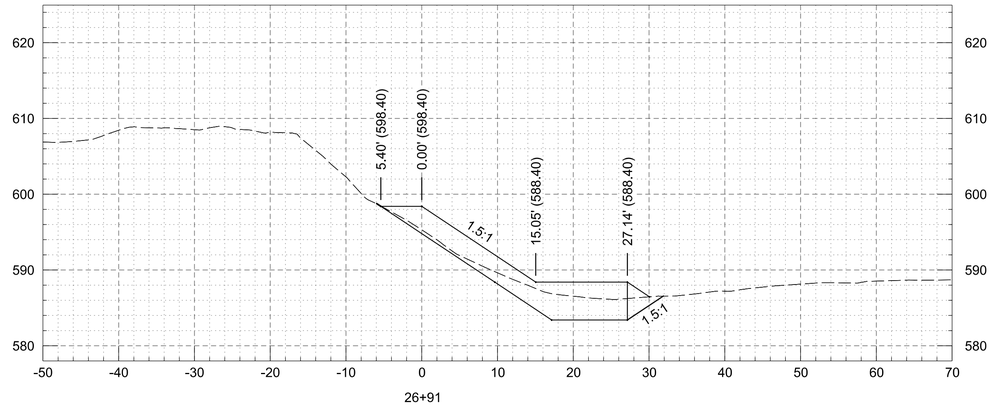
pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

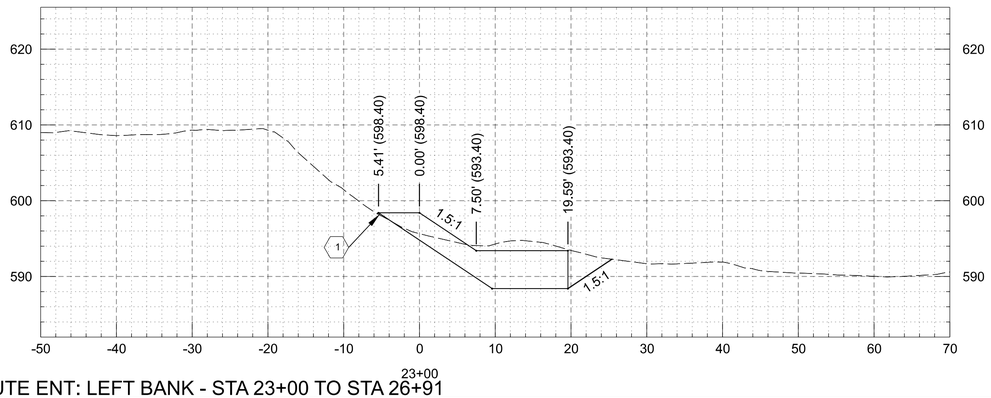
KEYNOTES

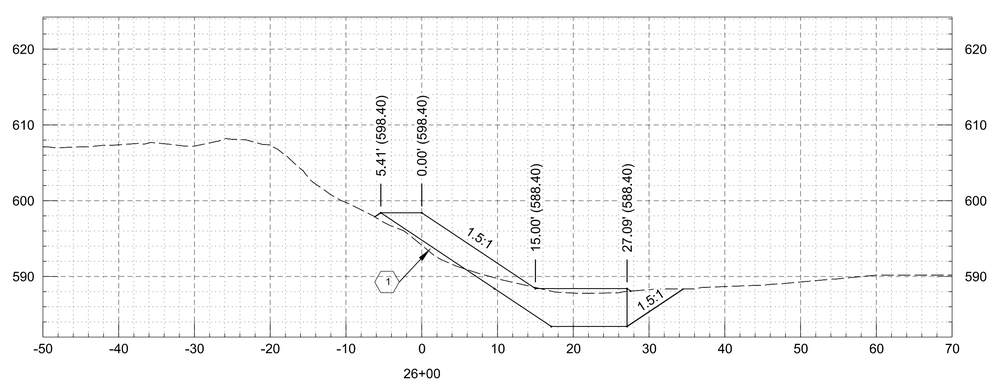
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.











A1 CHUTE ENT: LEFT BANK - STA 23+00 TO STA 26+91
SCALE: 1":10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D

ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

MR BS JM MODEL C-XS.dgn

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097 / FY22
PROJECT/CONTRACT IDENTIFIER

CROSS SECTIONS

SHEET ID
CS305

READY TO ADVERTISE

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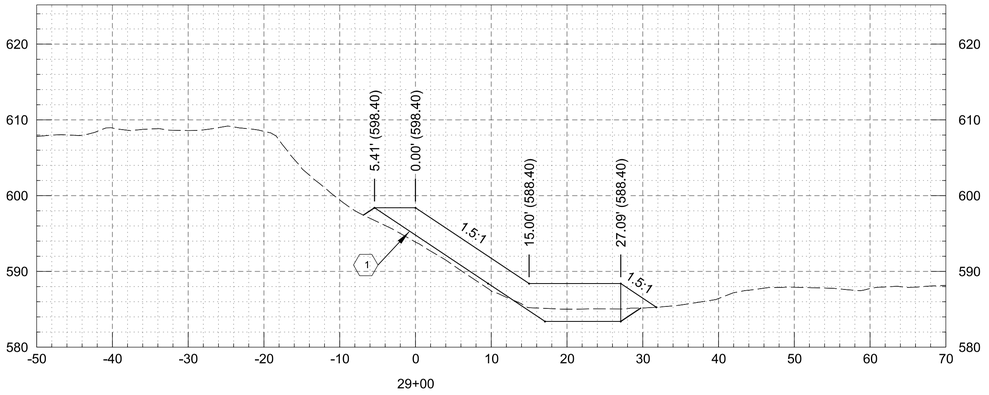
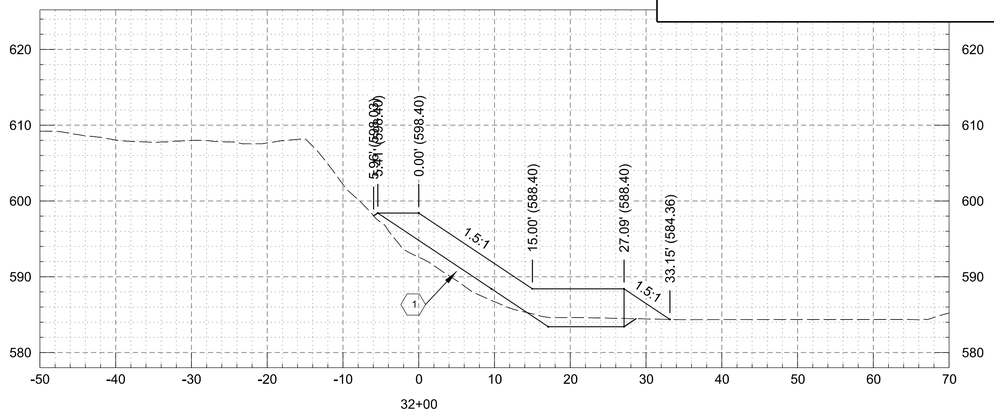
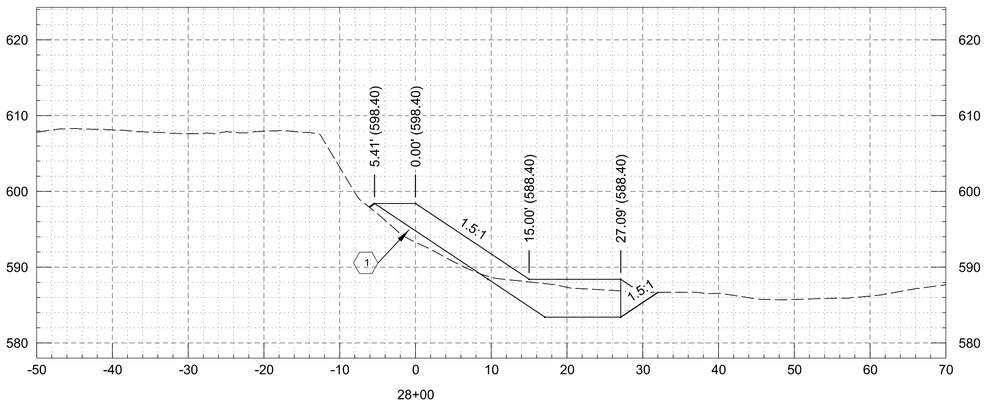
pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

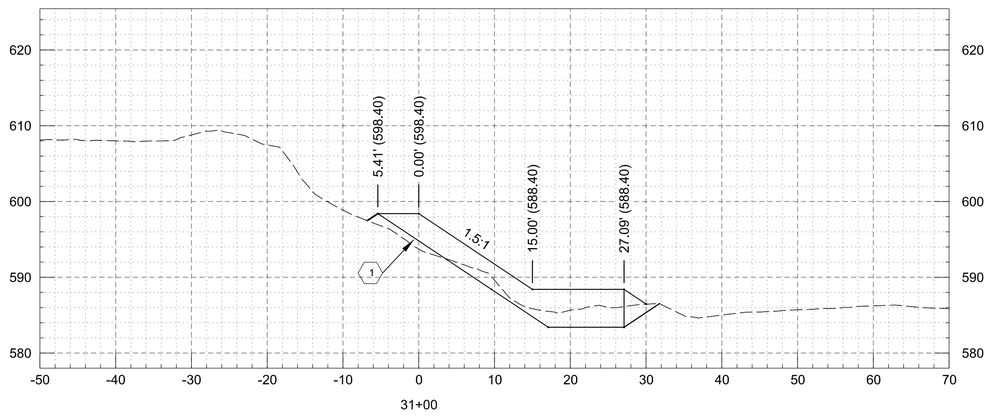
KEYNOTES

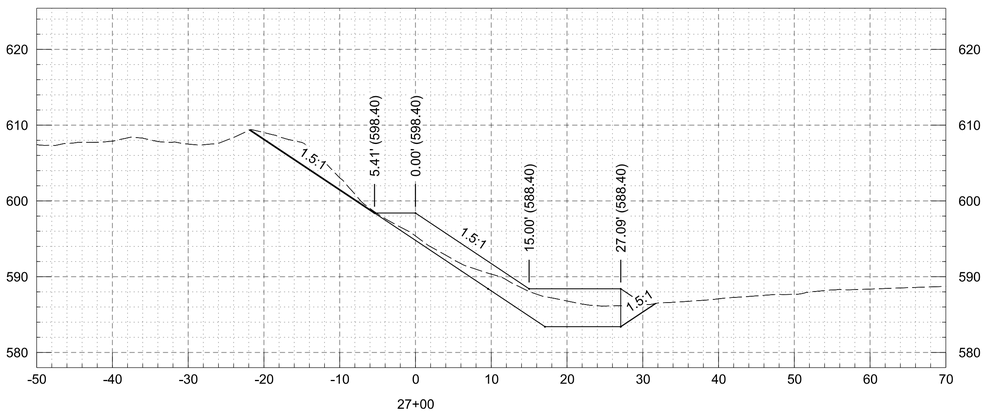
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.

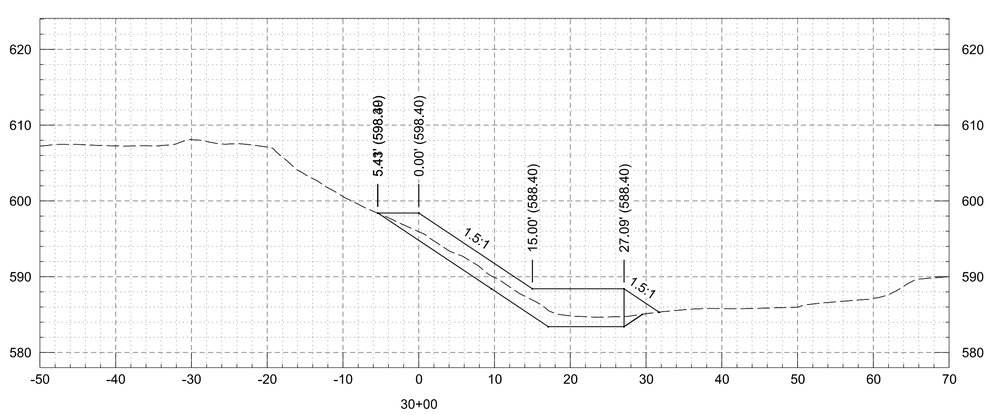












A1 CHUTE ENT: LEFT BANK - STA 27+00 TO STA 32+00
SCALE: 1":10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N. CHRISMAN	JANUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
M. GOSSENAUER	
SIZE: ANSI D	MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-304097 / FY22
PROJECT/CONTRACT IDENTIFIER

CROSS SECTIONS

SHEET ID
CS306

READY TO ADVERTISE

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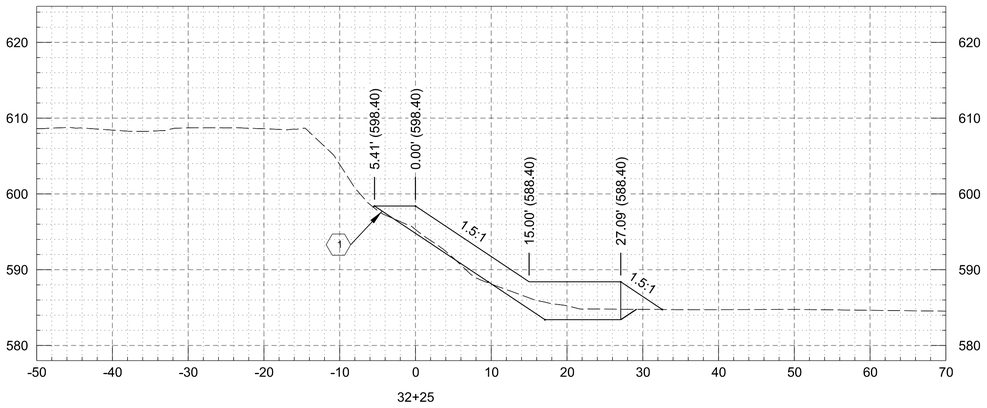
pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

KEYNOTES

1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.



A1 CHUTE ENT: LEFT BANK - STA 32+25
SCALE: 1":10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N. CHRISMAN	JANUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
M. GOSSENAUER	
SIZE: ANSI D	MR_BS_JM_MODEL_C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-304097 / FY22
PROJECT/CONTRACT IDENTIFIER

CROSS SECTIONS

SHEET ID

CS307

READY TO ADVERTISE

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pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

A1 CHUTE ENT: RIGHT BANK - STA 0+75 TO STA 3+00

SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D

ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2:504097, FY22

CROSS SECTIONS

SHEET ID

CS308

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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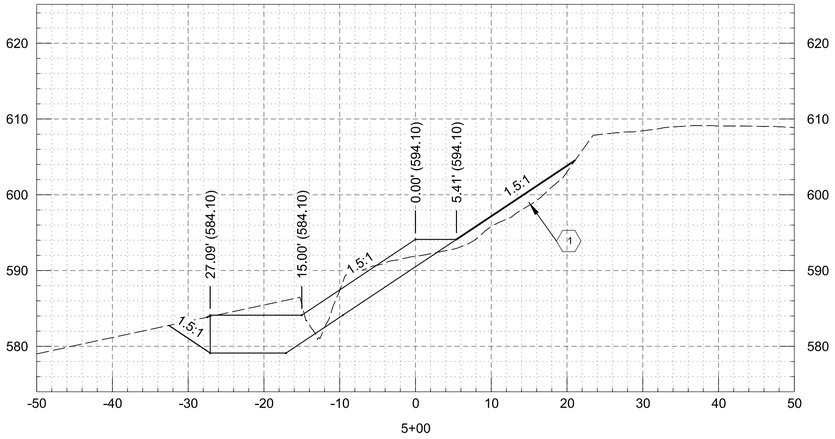
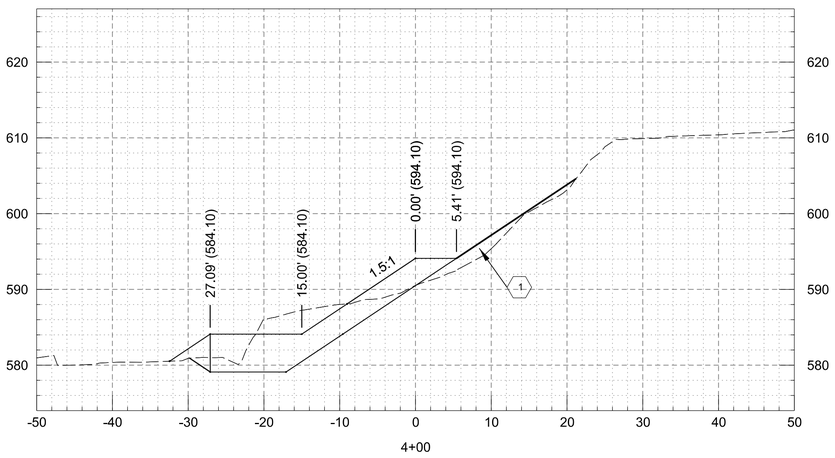
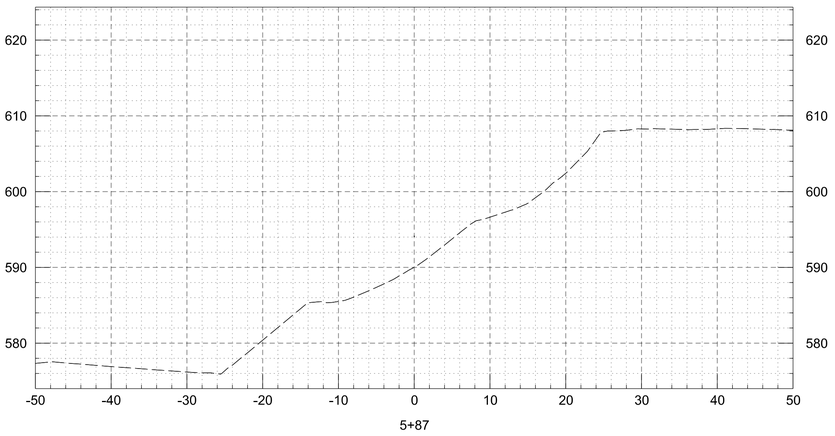
KEYNOTES

1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.







A1 CHUTE ENT: RIGHT BANK - STA 4+00 TO END
SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D
ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-304097, FY22

CROSS SECTIONS

SHEET ID
CS309

READY TO ADVERTISE

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pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

KEYNOTES

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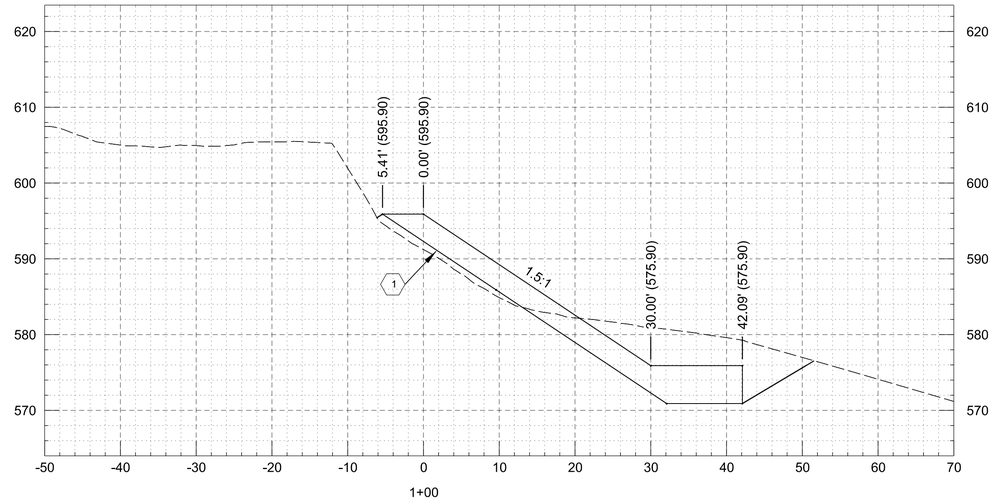

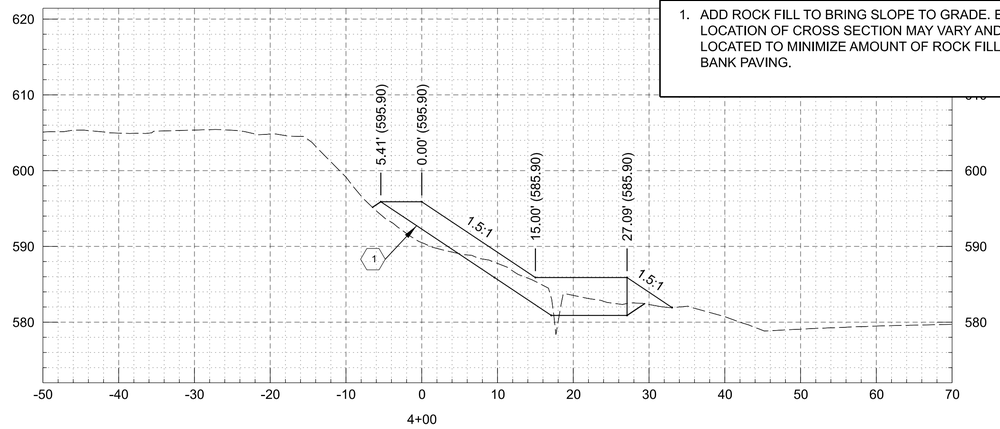

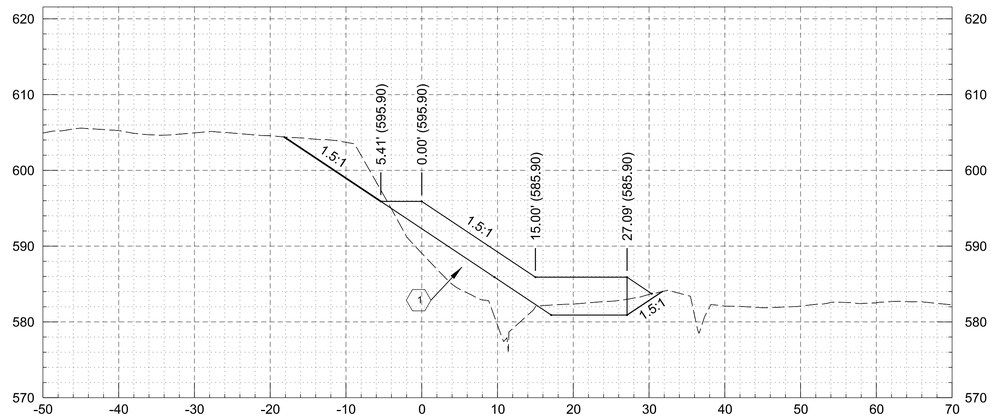

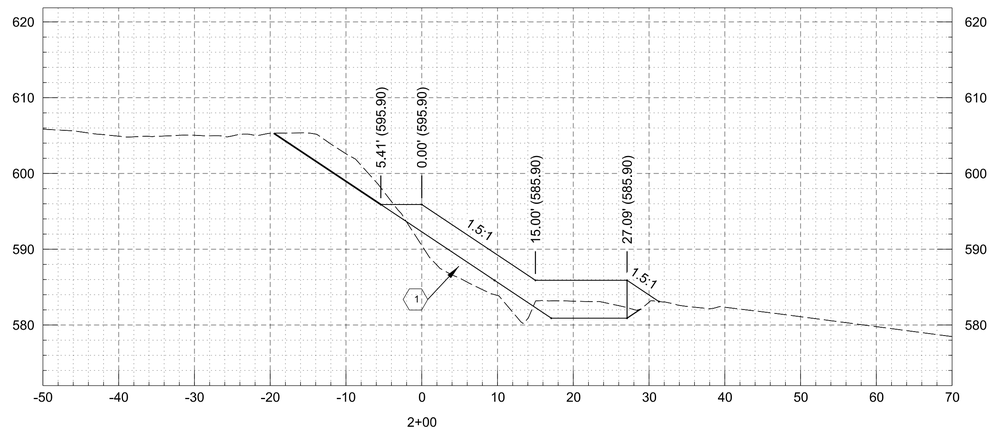

A1 MID CHUTE: LEFT BANK - STA 0+00 TO STA 5+00
SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D

ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

MR_BS_JM_MODEL_C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID
CS110

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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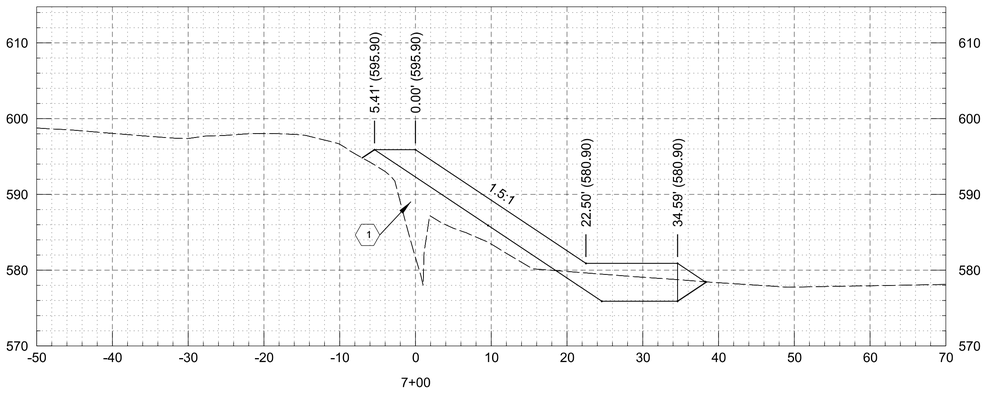

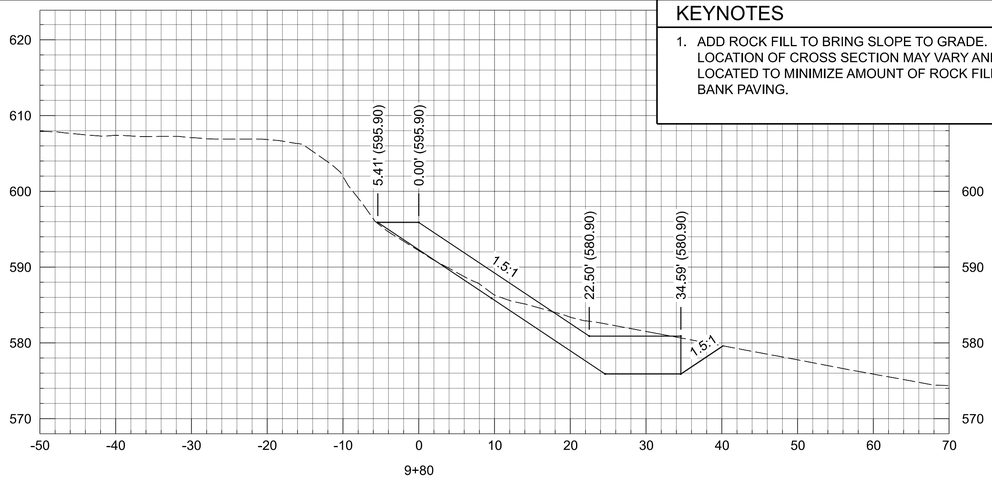

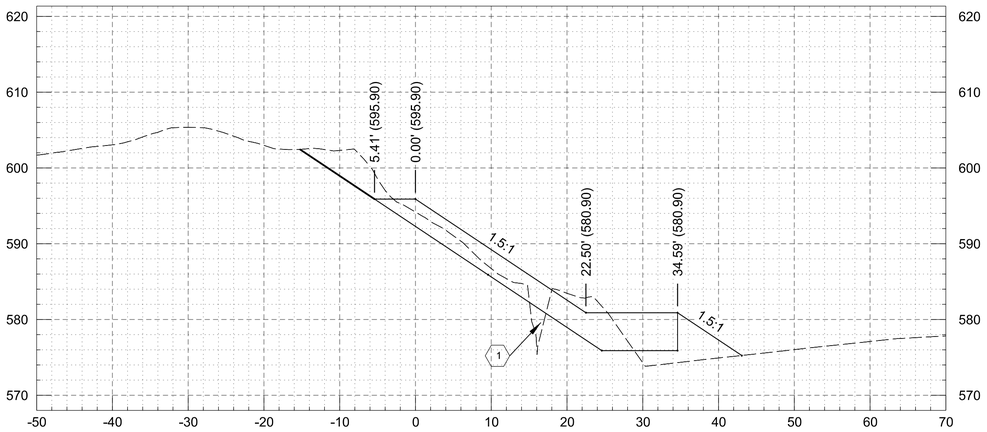

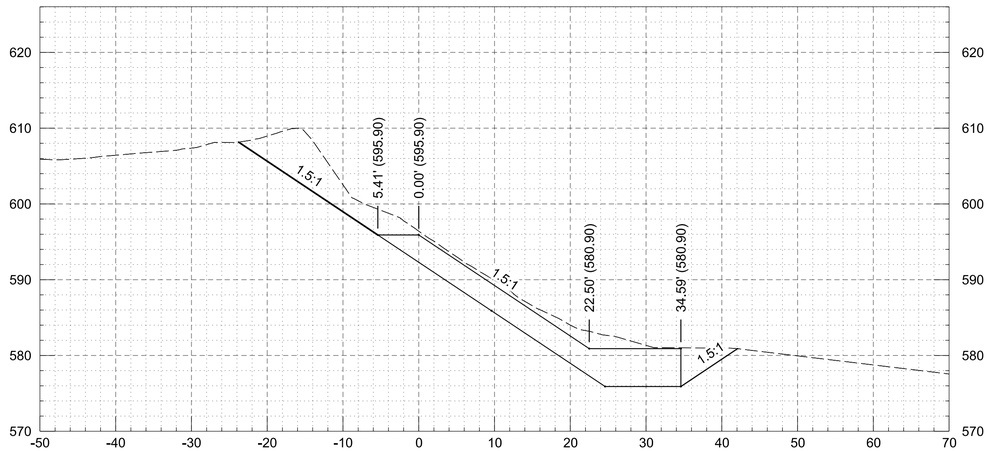

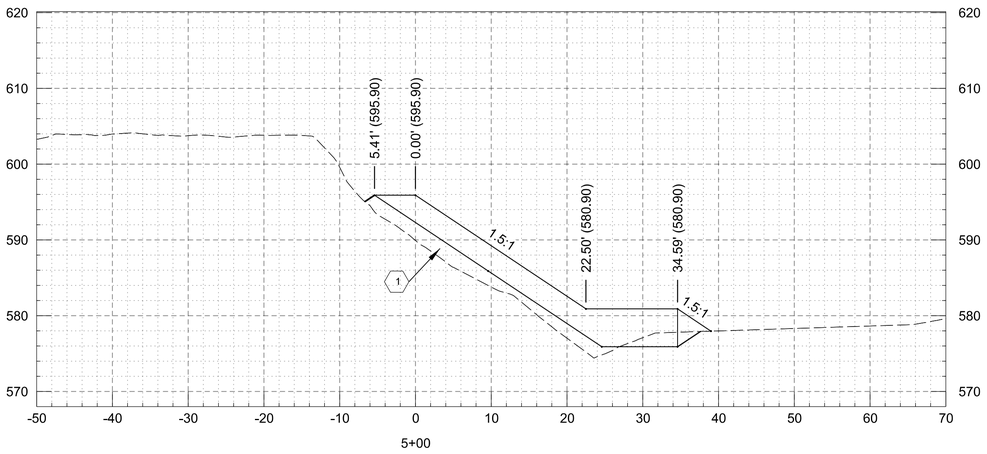

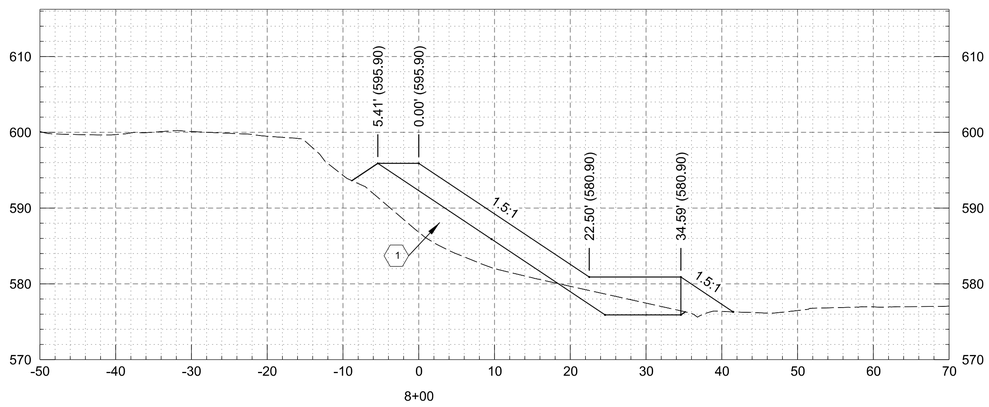

KEYNOTES

1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.

A1 MID CHUTE: LEFT BANK - STA 5+00 TO END

SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D
ISSUE DATE: MR BS JM MODEL C-XS.dgn
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID

CS111

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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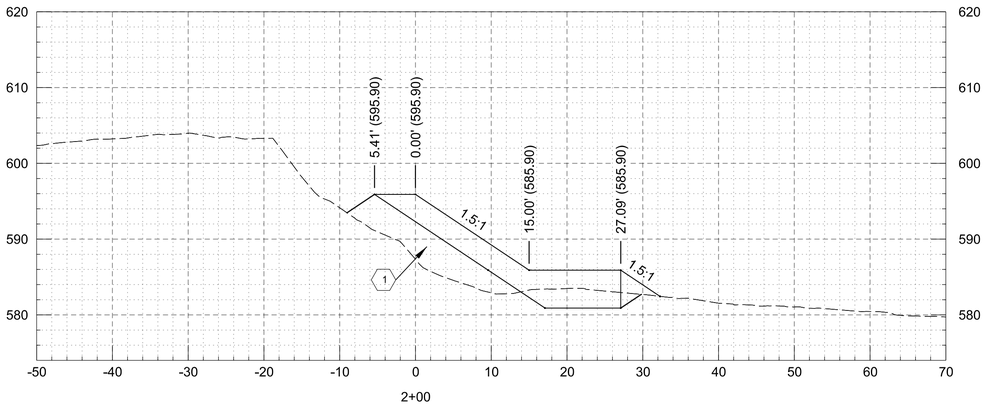
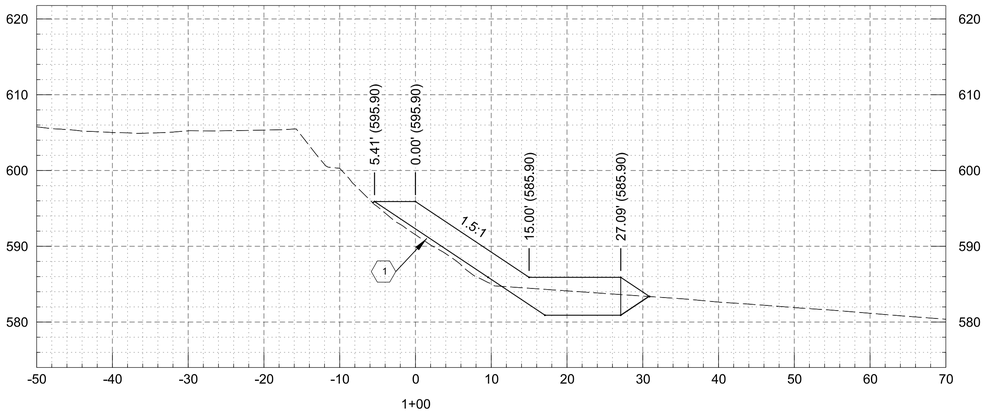
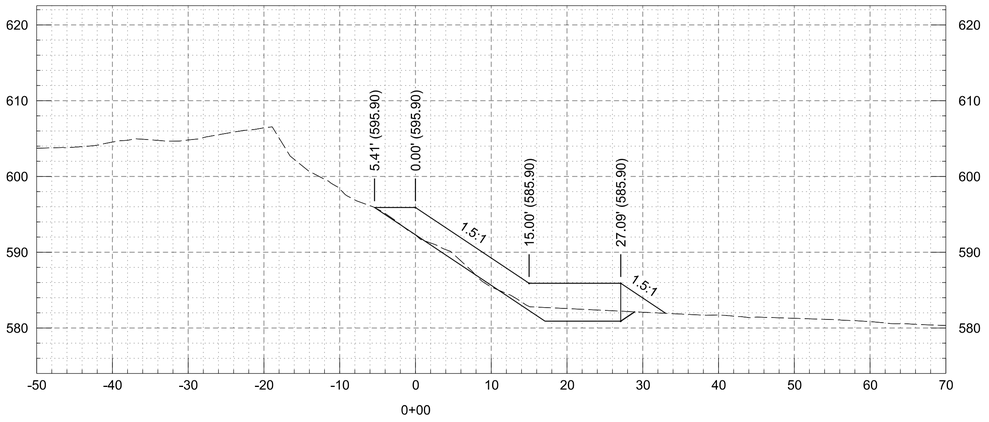
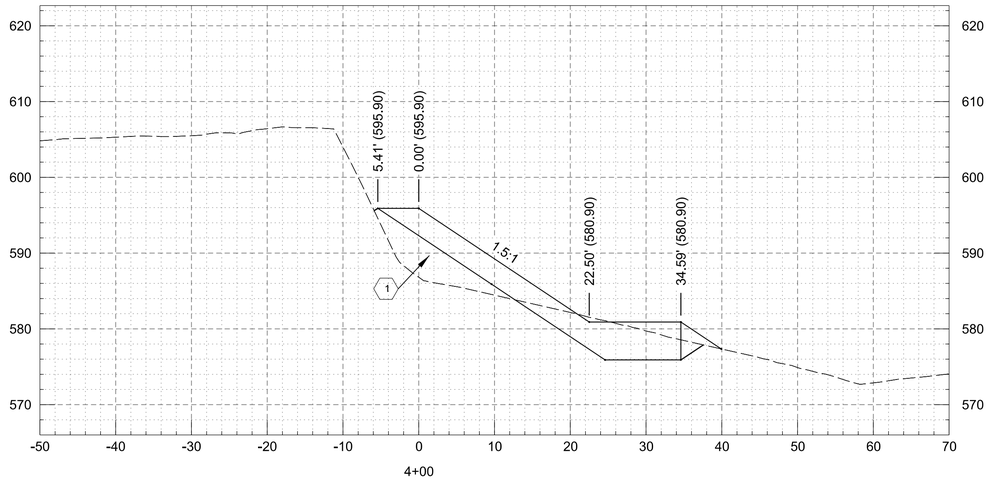
KEYNOTES

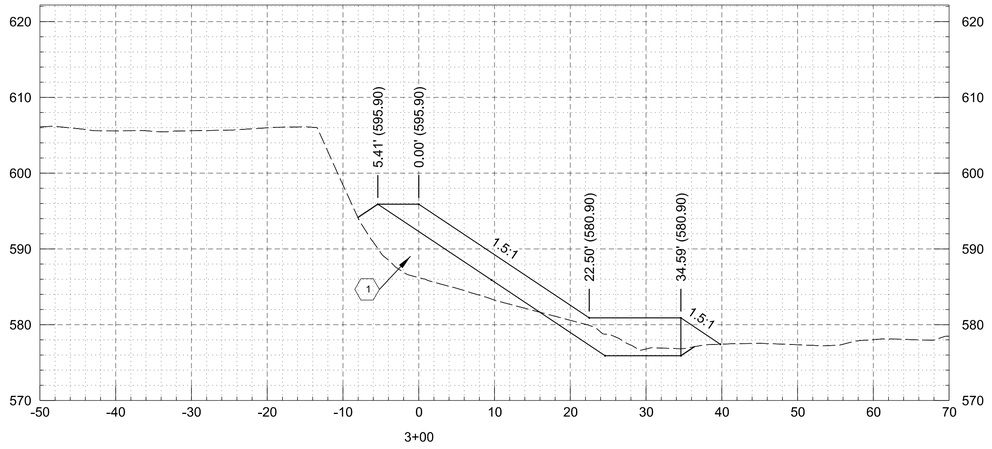
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.











A1 MID CHUTE EXIT: RT - STA 0+00 TO STA 4+00

SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D
ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID

CS112

READY TO ADVERTISE

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KEYNOTES

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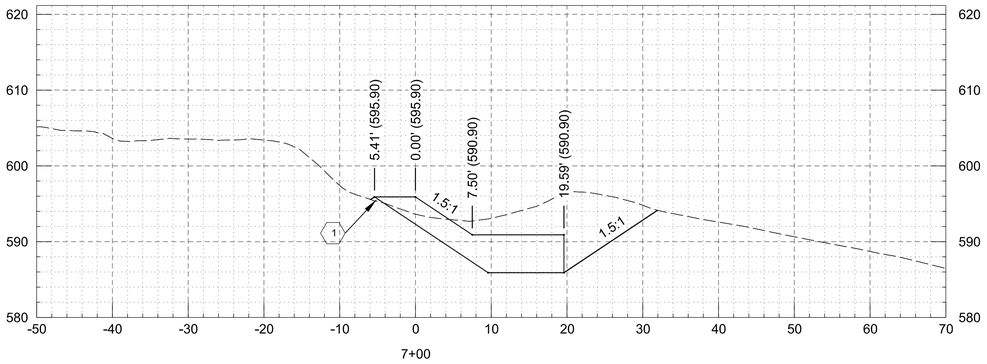

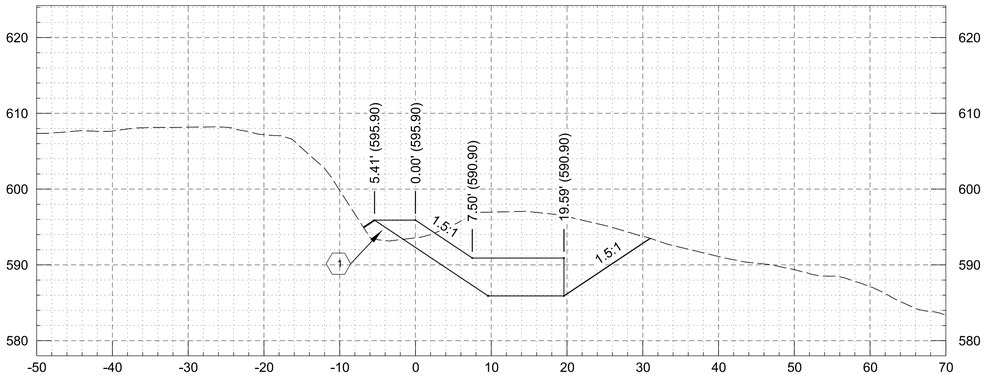

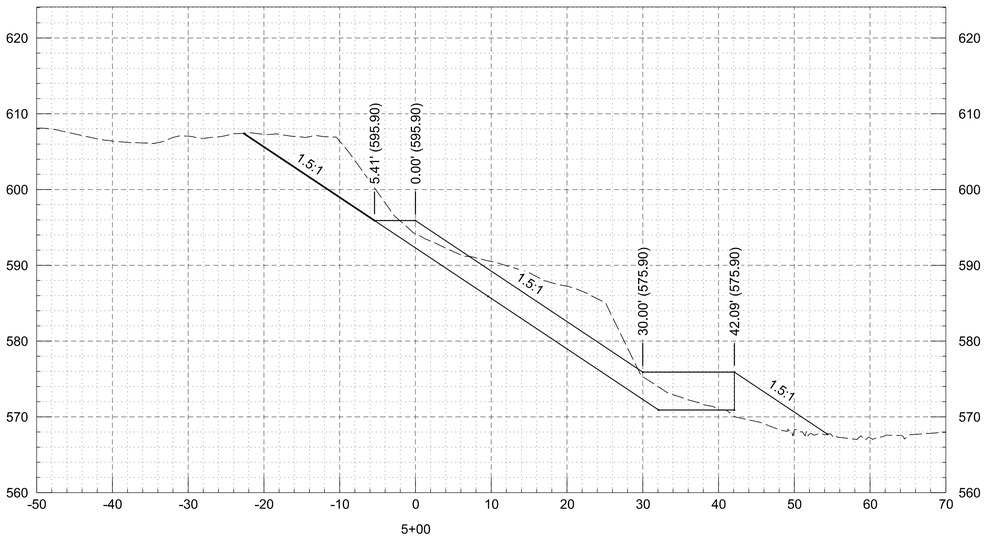

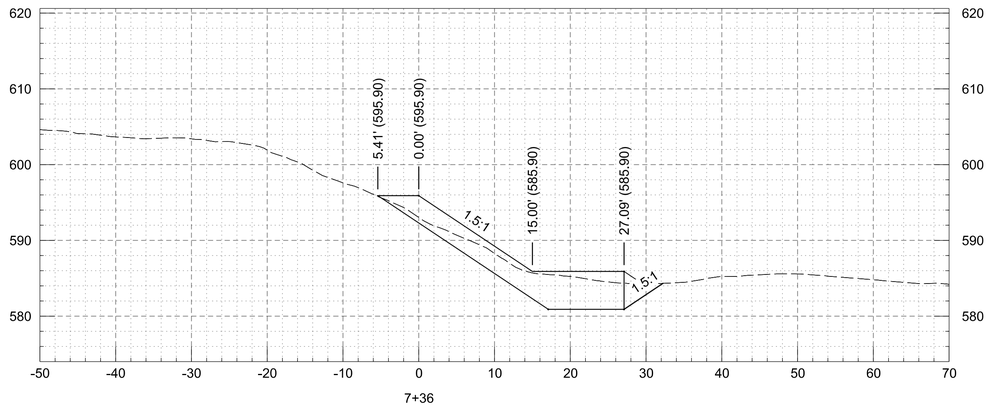

A1 MID CHUTE EXIT: RT - STA 5+00 TO END
SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
N. CHRISMAN	JANUARY 2023
DRAWN BY:	SOLICITATION NO.:
C. FORSYTHE	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
M. CHAPMAN	SEE COVER SHEET
SUBMITTED BY:	
M. GOSSENAUER	
SIZE	FSCM NO.
ANSI D	MR_BS_JM_MODEL_C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-304097, FY22

CROSS SECTIONS

SHEET ID
CS113

READY TO ADVERTISE

pw:\\ Kansas City District\Documents\Civil_Works\MoRiver\FY22-Bank Stabilization\Jameson Chute\6.0 Engineering-Design\6.1 Drawings\CAD_BIM_Sheets

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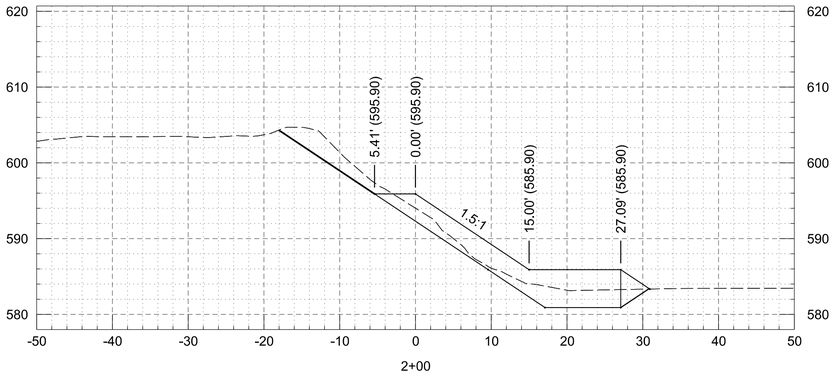
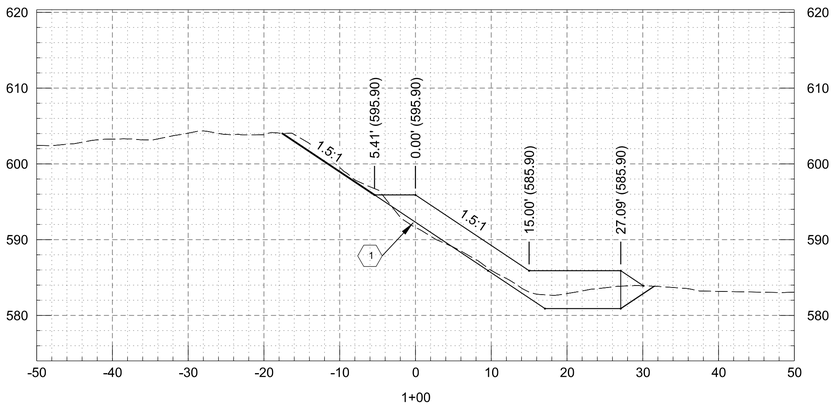
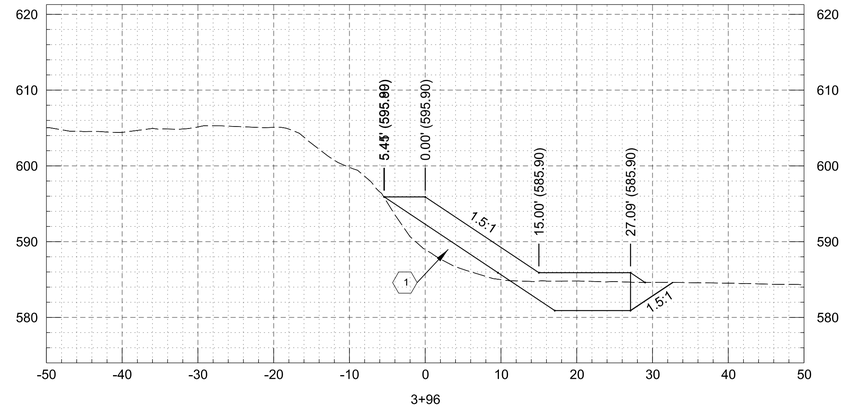
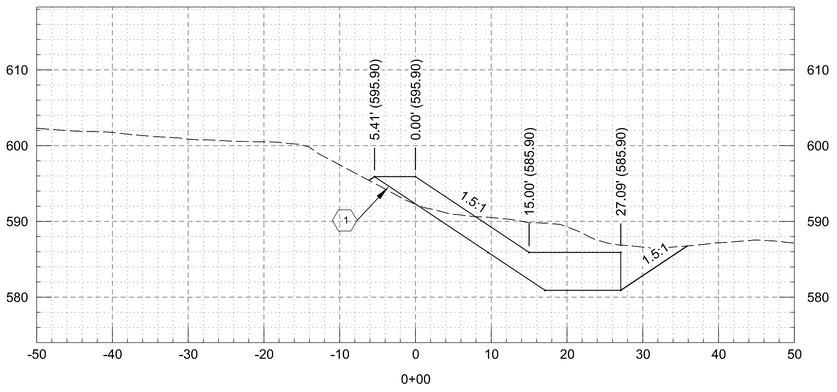
KEYNOTES

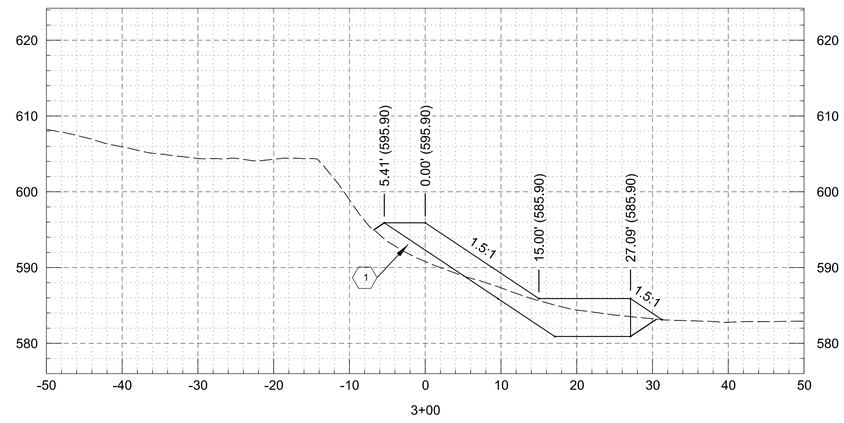
1. ADD ROCK FILL TO BRING SLOPE TO GRADE. EXACT LOCATION OF CROSS SECTION MAY VARY AND BE LOCATED TO MINIMIZE AMOUNT OF ROCK FILL BELOW BANK PAVING.











A1 MID CHUTE: EXIT LT - STA 0+00 TO END
SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: JANUARY 2023
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

DESIGNED BY: N. CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M. GOSSENAUER
SIZE: ANSI D

MR BS JM MODEL C-XS.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

MISSOURI RIVER RECOVERY PROJECT
JAMESON CHUTE
P2-504097, FY22

CROSS SECTIONS

SHEET ID
CS314

READY TO ADVERTISE

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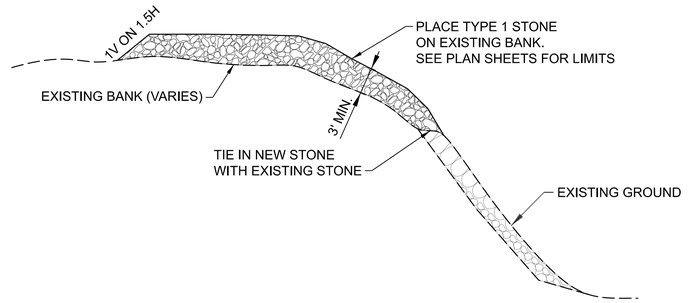


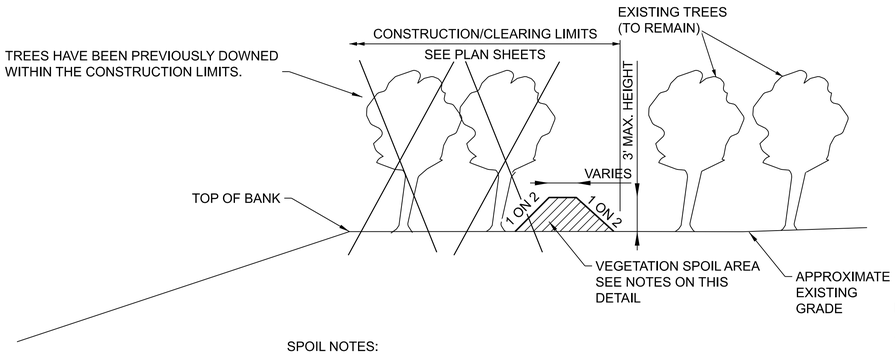
F1 STONE OVERLAY
SCALE: NTS

ALIGNMENT	START STATION	END STATION	DETAIL	TOP ELEVATION	TOE ELEVATION	TOE WIDTH
CHUTE ENT: RIGHT BANK	0+75	1+85	STONE FILL REVETMENT	594.1	N/A	N/A
	2+55	4+00	STONE FILL REVETMENT	594.1	N/A	N/A
	4+00	5+85	BANK PAVING	594.1	584.1	10
CHUTE ENT: LEFT BANK	0+00	16+50	BANK PAVING	598.4	588.4	10
	16+50	25+50	BANK PAVING	598.4	593.4	10
	25+50	26+90	BANK PAVING	598.4	588.4	10
(OPTION) CHUTE ENT: LEFT BANK	26+90	32+25	BANK PAVING	598.4	588.4	10
(OPTION) MID CHUTE: EXIT LT	0+00	3+96	BANK PAVING	595.9	585.9	10
(OPTION) MID CHUTE: EXIT RT	0+00	2+50	BANK PAVING	595.9	585.9	10
	2+60	4+00	BANK PAVING	595.9	580.9	10
	4+10	5+00	BANK PAVING	595.9	575.9	10
MID CHUTE: EXIT RT	5+00	7+00	BANK PAVING	595.9	590.9	10
	7+00	7+36	BANK PAVING	595.9	585.9	10
MID CHUTE: LEFT BANK	0+00	1+50	BANK PAVING	595.9	575.9	10
	1+60	4+50	BANK PAVING	596.9	585.9	10
	4+60	9+80	BANK PAVING	597.9	580.9	10

E5 BANK PAVING SCHEDULE
SCALE: NTS

SHEET NOTES

1. SEE SPECIFICATION 35 31 24.00 23 FOR STONE GRADATION. PLACE TYPE 1 ROCKFILL UNLESS NOTED OTHERWISE ON THIS SHEET OR DIRECTED BY CONTRACTING OFFICER.



SPOIL NOTES:

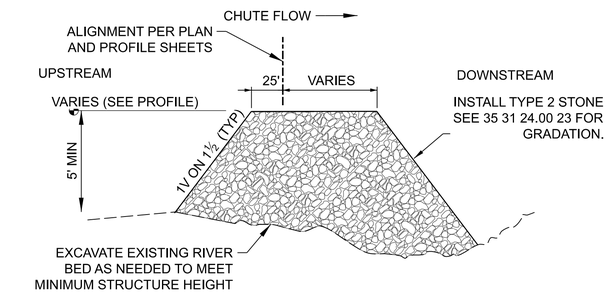
1. CLEARED TREES AND WOODY DEBRIS SHALL BE SPOILED AT THE EDGE OF THE CONSTRUCTION LIMITS ON THE SIDE OPPOSITE FROM THE BANK LINE AS SHOWN ON THE DETAIL.
2. VEGETATION SPOIL AREAS WITHIN THE CONSTRUCTION LIMITS MUST NOT CONTAIN ANY SOIL AND MUST BE VARIED IN HEIGHT TO PREVENT IMPOUNDED WATER.
3. EXCAVATED MATERIAL MUST BE SPOILED IN ACCORDANCE WITH DETAIL C7/CS501. SEE SPECS FOR ADDITIONAL SPOIL DETAILS.

C1 ACCESS/HAUL ROUTE DETAIL
SCALE: NTS

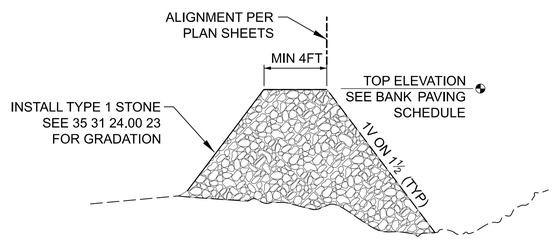
NOTE:

1. PLACE EXCAVATED MATERIAL ON TOP OF BANK UNTIL BANK PAVING IS CONSTRUCTED AND INSPECTED. CONTRACTOR MAY ALSO SPOIL EXVACATED MATERIAL IN CHUTE OR RIVER AT LEAST 20 FEET FROM EXCAVATION.
2. EXCAVATED MATERIALS AND SOME WOODY DEBRIS MAY BE SPOILED ON TOP OF BANK PAVING AFTER BANK PAVING FEATURES HAVE BEEN FULLY INSPECTED AND APPROVED BY CONTRACTING OFFICER.

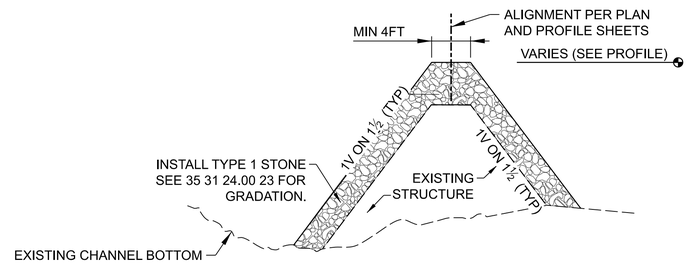
C5 BANK PAVING
SCALE: NTS



A1 CHUTE ENTRANCE CONTROL STRUCTURE EXTENSION
SCALE: NTS



A5 STONE FILL REVETMENT
SCALE: NTS



A8 DIKE RAISE DETAIL
SCALE: NTS

US Army Corps of Engineers®

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SOLICITATION NO.: SEE COVER SHEET
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DESIGNED BY: N.CHRISMAN
DRAWN BY: C. FORSYTHE
CHECKED BY: M. CHAPMAN
SUBMITTED BY: M.GOSSENAUER
SIZE: MR_BS_JM_CS501.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

JAMESON CHUTE REHABILITATION
SALINE COUNTY, MISSOURI
FY2023

DETAILS

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