DRAFT

19 Feb 2021

Post 2019 Flood Area of Concern (AOC) Repairs *CONCEPT DESIGN MAPS* for

3 Phase Approach

21 AOC Sites

+

4 Additional MRRP Sites

Priority 1 (Green Lines) = Top Priority work identified to be completed with FY21 funding

Priority 2 (Yellow Lines) = Priority work to be considered as additional funding is received

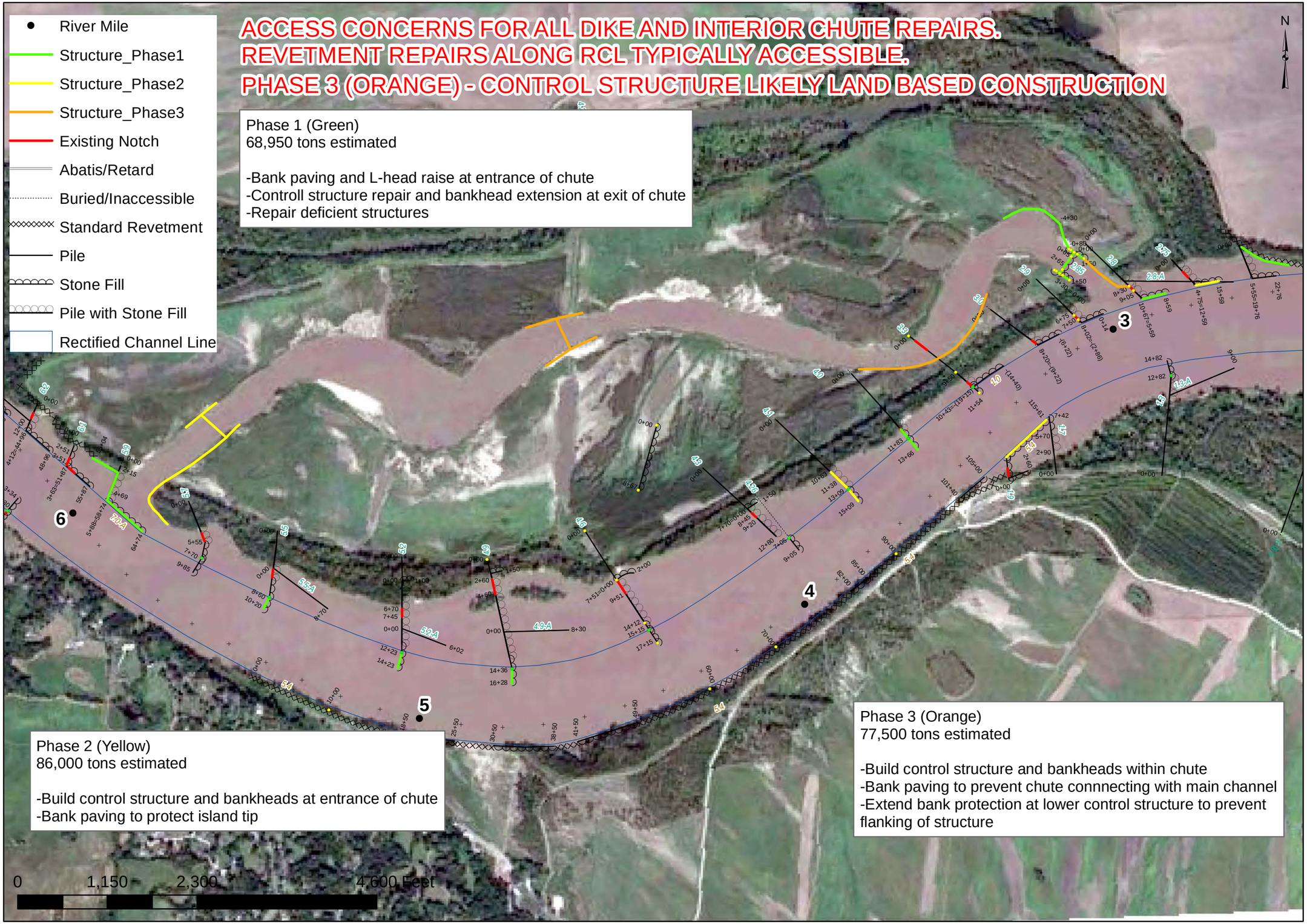
Priority 3 (Orange Lines) = Additional work to be considered as needed and as funding allows

DRAFT Rock Quantity (tons) Summary by Site

2020 AOC Sites							
AOC Sites			PHASE 1			Phase 2	Phase 3
Industry Priority Rank	**Name**	**RM**	Completed Phase 1	Remaining Phase 1	Total Phase 1		
	Cora Island Chute	3	0	68950	68950	86000	77500
	Pelican/Littles	10	0	15200	15200	2400	68600
6	Bryan Island/ St Charles Bend	25	13291	76800	90091	28500	2500
7	Daniel Boone Hwy Bridge	44	5800	12230	18030	41927	6075
9	Augusta Bend	56	0	37500	37500	46500	0
2	Lunch Island/ Bates Island Bend	92	30401	18000	48401	40250	53500
3	Gasconade	104	3750	52180	55930	19063	0
	Auxvasse Bend	122	0	25300	25300	10700	0
4	Smoky Waters Chute	133	14028	34000	48028	102800	33700
11	Providence/ Sandy Hook	167	0	13068	13068	9569	6750
5	Tadpole/Searcy Chute and IRC	179	52778	107460	160238	14600	73000
8	Overton North Chute	187	0	44150	44150	30700	30000
	Franklin Bend	194	0	5140	5140	14400	0
	Jameson Chute	213	25000	84700	109700	130500	85000
	Lisbon Chute	217	40000	5000	45000	88500	29000
	Upper Miami Bend	262	0	6800	6800	17300	11000
12	Prunty	269	0	3400	3400	13800	6100
1	Cranberry Chute	282	38100	139000	177100	18000	105000
	Bakers	286	0	2000	2000	9700	19000
	Weston Bend	400	0	0	0	14900	0
10	Wolf Creek	480	14300	3125	17425	53000	45000

Additional MRRP Sites							
Additional MRRP Sites			PHASE 1			Phase 2	Phase 3
	Name	**RM**	Completed Phase 1	Remaining Phase 1	Total Phase 1		
NA	Moberly Bend	299	0	16850	16850	15440	0
NA	Dalbey Chute	417	0	13000	13000	18000	50000
NA	Benedictine Chute	427	0	12000	12000	90000	91000
NA	Worthwine Chute	459	0	41200	41200	31900	25600

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\CranberryCora_v3.mxd



US Army Corps of Engineers
Kansas City District

Date: FEBRUARY 2021

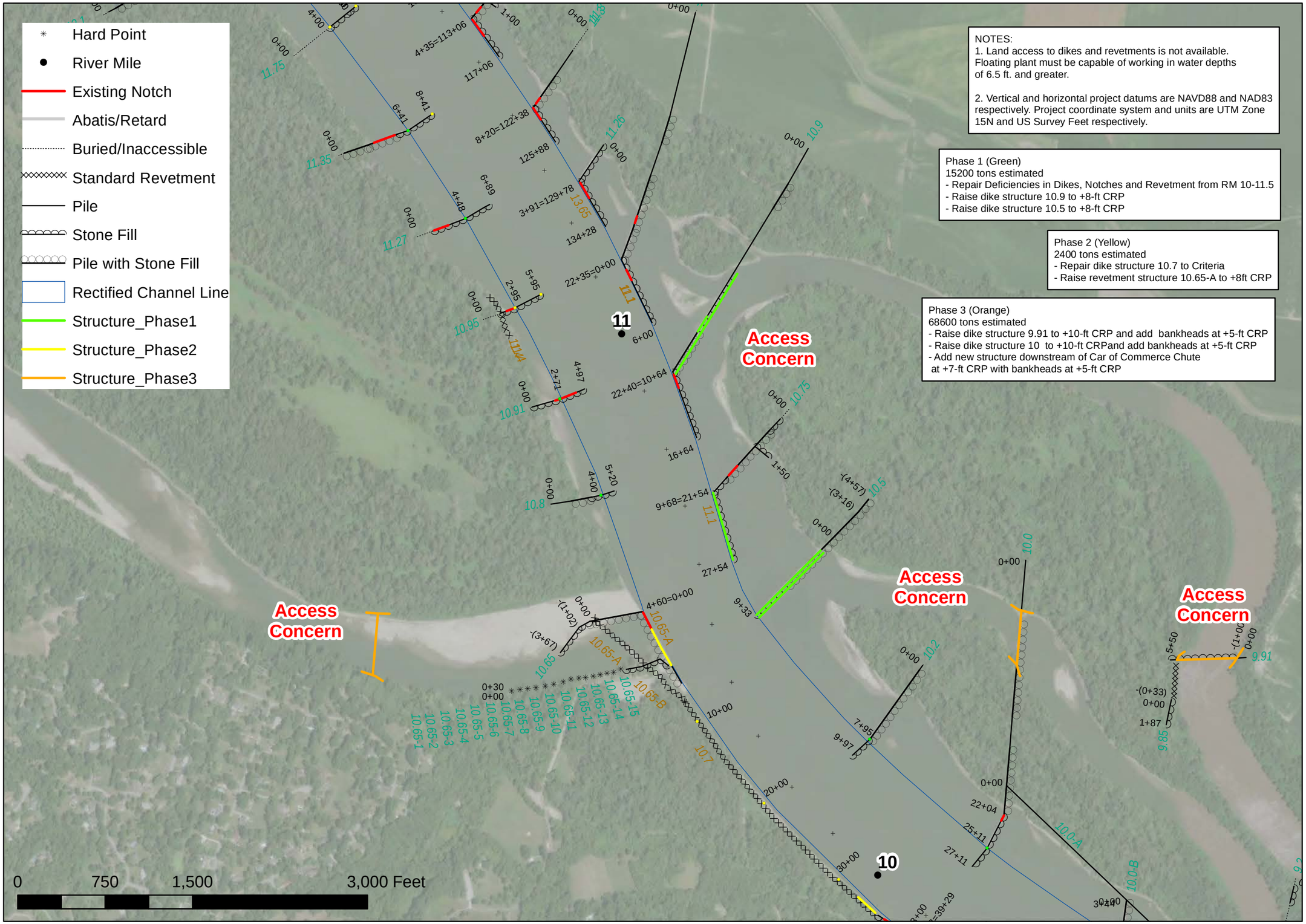
Designed by: D. SCHRADER
Drawn by: D. MORRIS
Submitted by: M. CUNIGAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM3 - CORA ISLAND

Sheet Reference Number:
C-100

Document Path: C:\Users\g5edhgf9\Desktop\Figueroa\2021 AOC\GIS\Pelican_Littles\Pelican_Littles.mxd



NOTES:
1. Land access to dikes and revetments is not available. Floating plant must be capable of working in water depths of 6.5 ft. and greater.

2. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

Phase 1 (Green)
15200 tons estimated
- Repair Deficiencies in Dikes, Notches and Revetment from RM 10-11.5
- Raise dike structure 10.9 to +8-ft CRP
- Raise dike structure 10.5 to +8-ft CRP

Phase 2 (Yellow)
2400 tons estimated
- Repair dike structure 10.7 to Criteria
- Raise revetment structure 10.65-A to +8ft CRP

Phase 3 (Orange)
68600 tons estimated
- Raise dike structure 9.91 to +10-ft CRP and add bankheads at +5-ft CRP
- Raise dike structure 10 to +10-ft CRPand add bankheads at +5-ft CRP
- Add new structure downstream of Car of Commerce Chute at +7-ft CRP with bankheads at +5-ft CRP

US Army Corps of Engineers
Kansas City District

Designed by: G. FIGUEROA TORO
Drawn by: T. BROWN
G. FIGUEROA TORO
Submitted by: M. CLAPHAM
Date: JANUARY 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

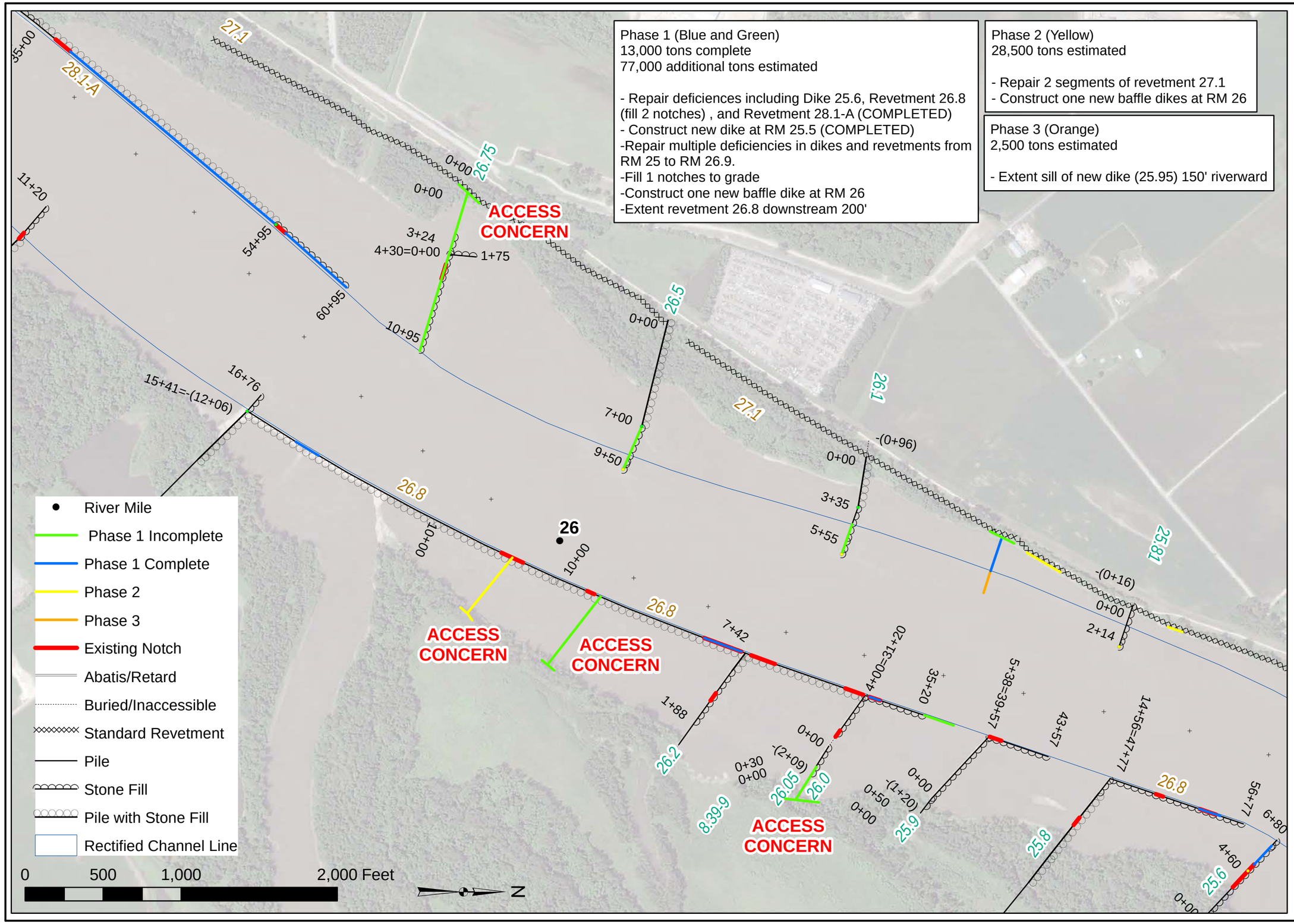
MISSOURI RIVER BASIN
ST. CHARLES COUNTY, MISSOURI
POST FLOOD DAMAGE REPAIR
PELICAN-LITTLES PROJECT

POST FLOOD AOC REPAIR
RM 10 PELICAN_LITTLES

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Bryan_Island\Bryan_Island_10_4.mxd



US Army Corps of Engineers
Kansas City District

Designed by: H. SHAUGHNESSY
Drawn by: T. BROWN
Submitted by: M. CHAPMAN
Date: 18 FEB 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

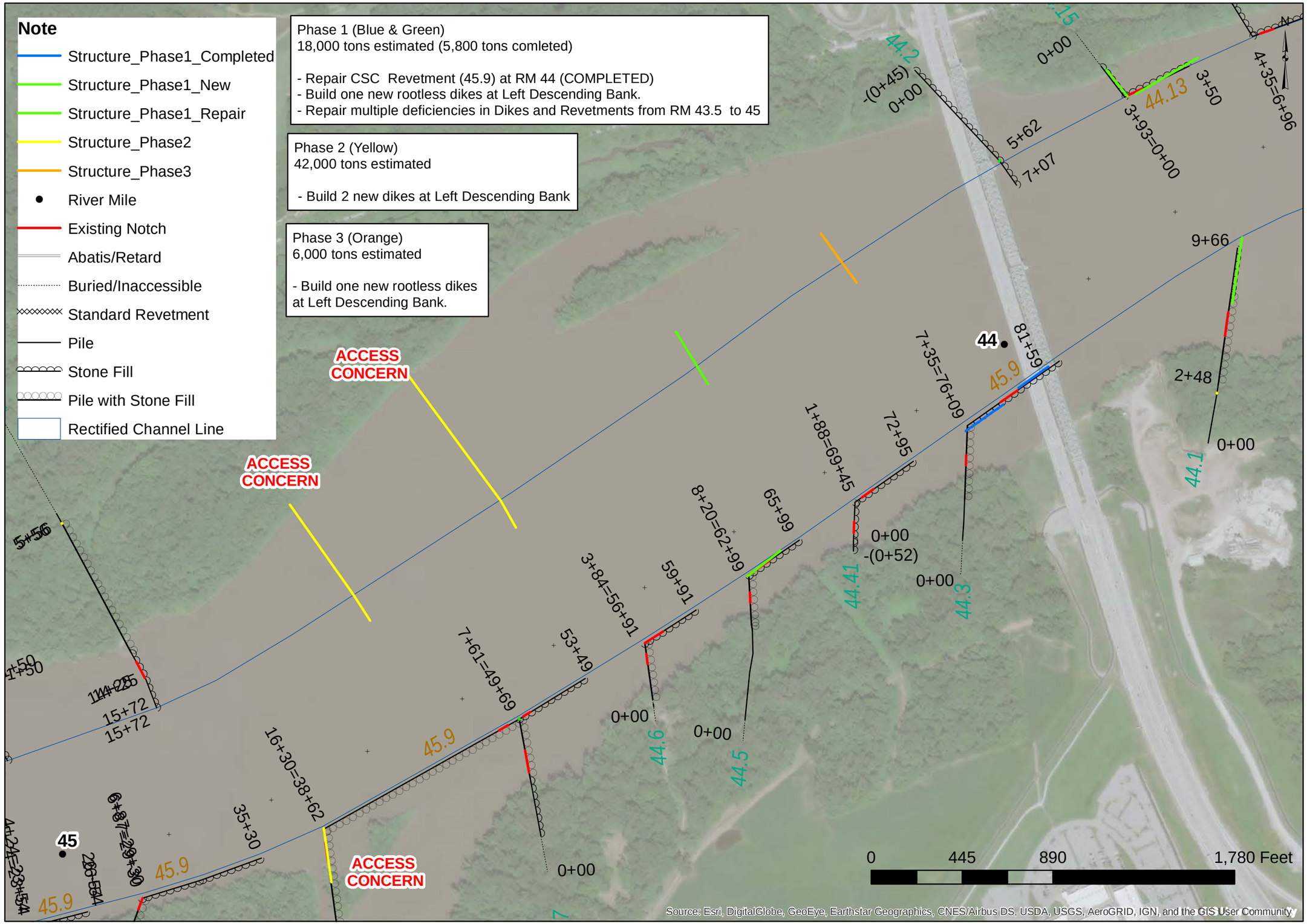
MISSOURI RIVER BASIN
ST. LOUIS COUNTY, MISSOURI
FLOOD DAMAGE REPAIR

RM 25- BRYAN ISLAND/
ST. CHARLES BEND

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: C:\Users\G5ECHSJ3\Desktop\2021 AOC\Daniel_Boone_Bridge\Daniel_Boone_Bridge2_10_4.mxd



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CLAYPOOL

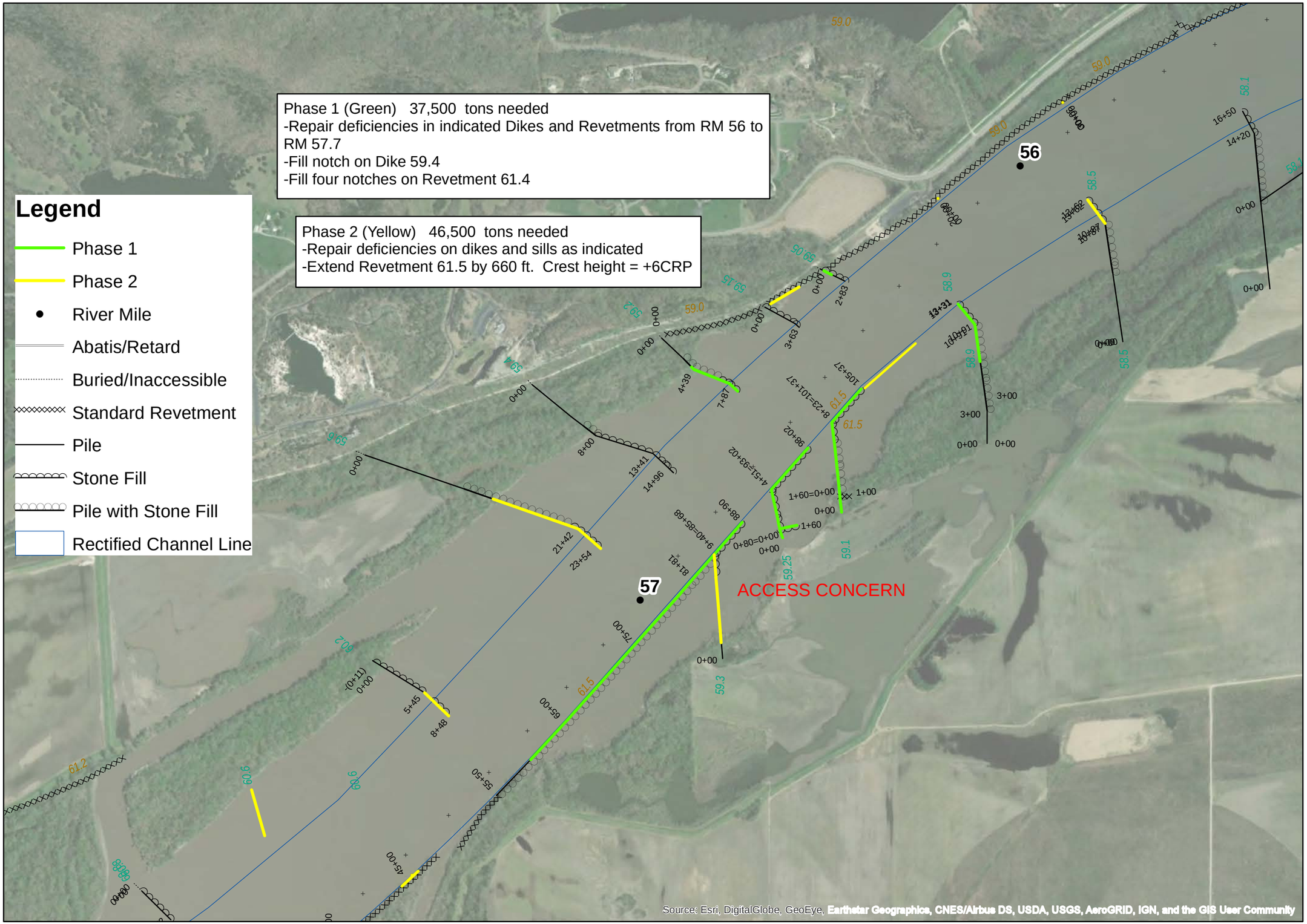
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM44 - DANIEL BOONE BRIDGE

Sheet Reference Number:
C-100

PHASE 1

Document Path: D:\Work Files\Missouri River\MR 2021\Augusta Bend\Augusta.mxd



US Army Corps of Engineers
Kansas City District

Date: FEBRUARY 2021

Designed by: J. SHELLEY
Drawn by: J. SHELLEY
XXXXX
Submitted by: M. CHAPMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

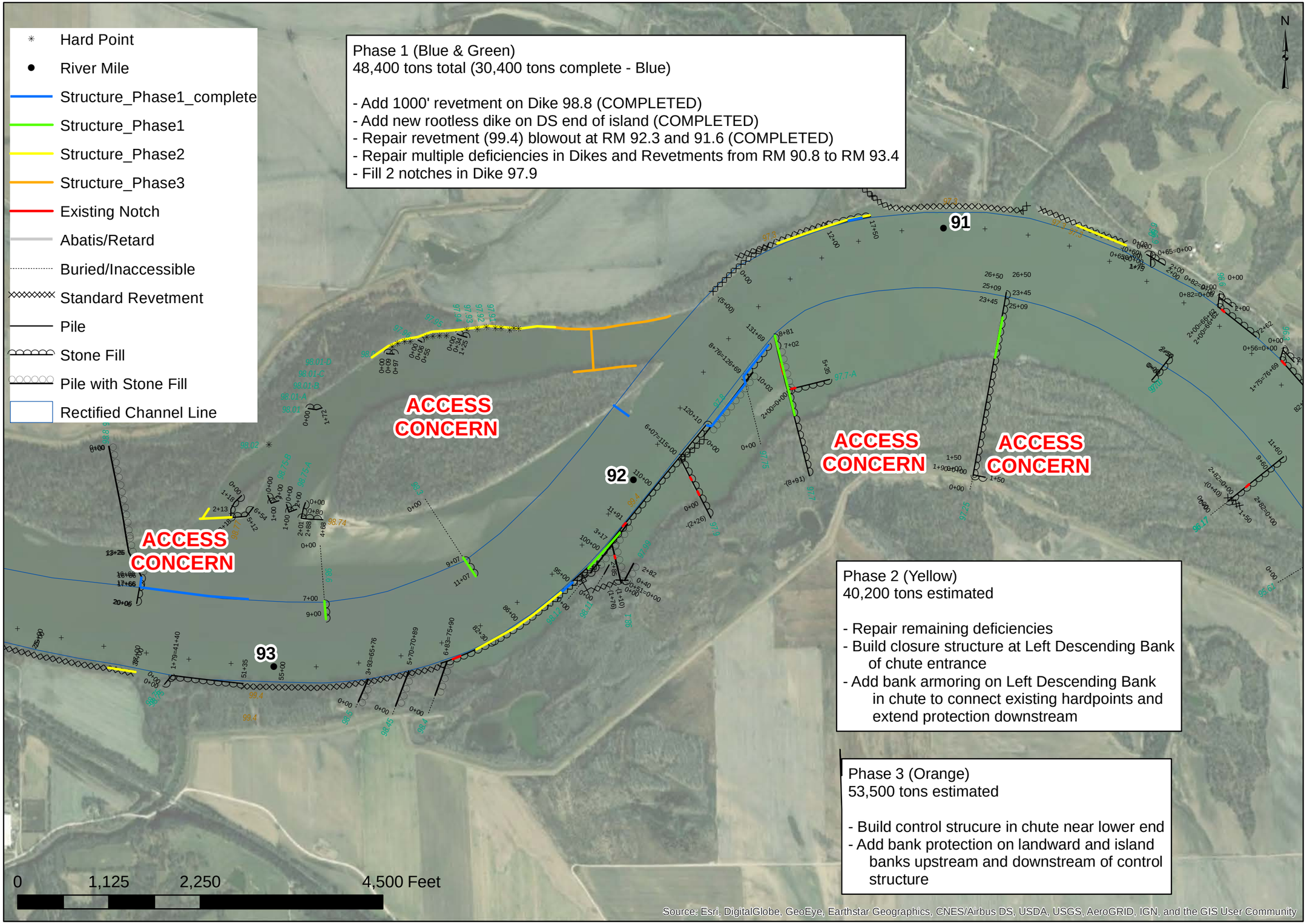
MISSOURI RIVER BASIN

POST FLOOD AOC REPAIR
RM 57- AUGUSTA BEND

Sheet Reference Number:
C-100

PHASE 1 - 2

Document Path: C:\Users\g5ecxmbg\Documents\Gossenauer\ED-HR technical\BSNP\2021\AOC sites\GIS\Lunch_Island\Lunch_Island_10_4_20210218.mxd



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CRAFTWAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
FLOOD DAMAGE REPAIR
AREAS OF CONCERN (AOC)

POST FLOOD AOC REPAIR
RM92 - LUNCH ISLAND

Sheet Reference Number:
C-100

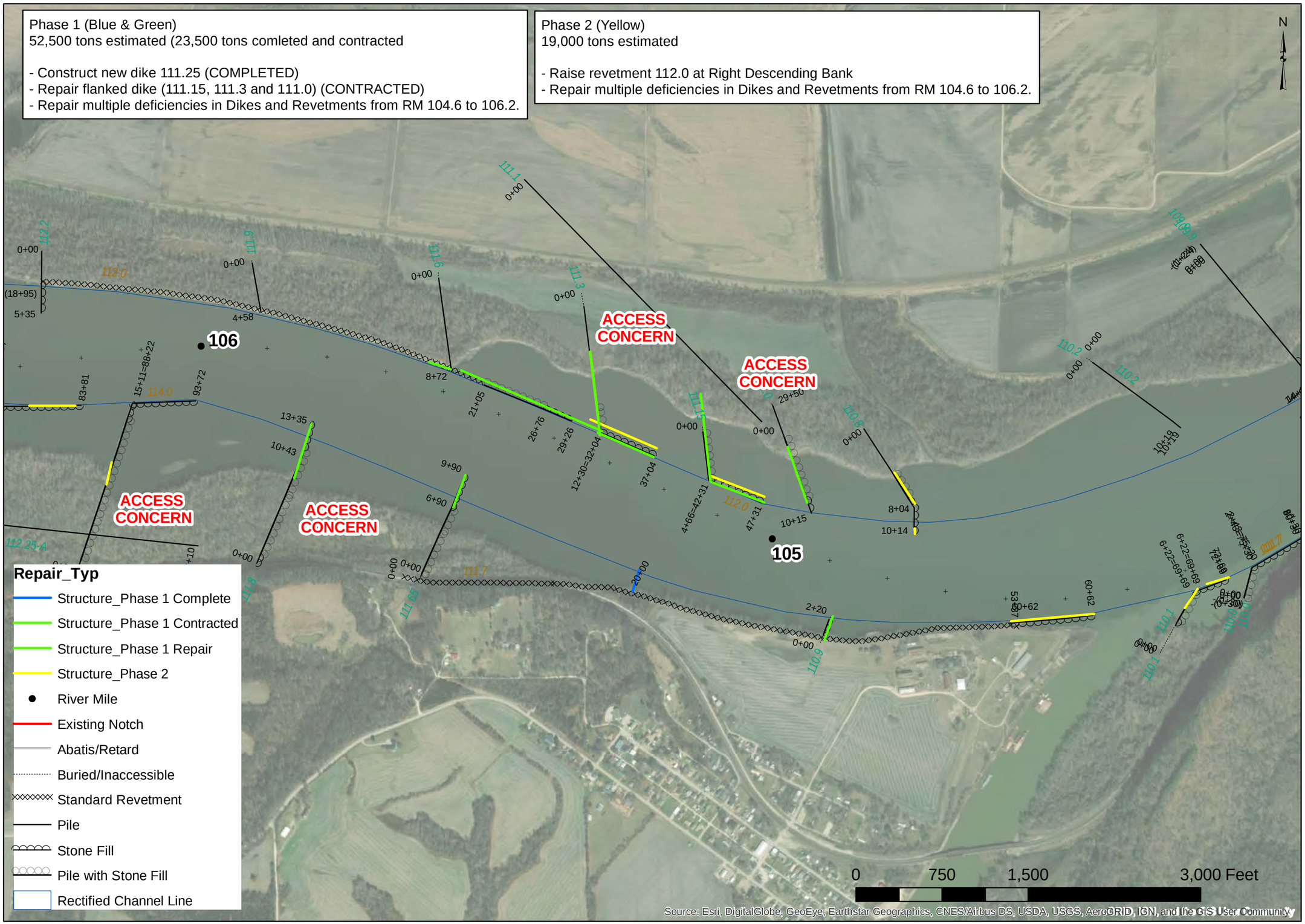
PHASE 1

Phase 1 (Blue & Green)
52,500 tons estimated (23,500 tons comleted and contracted

- Construct new dike 111.25 (COMPLETED)
- Repair flanked dike (111.15, 111.3 and 111.0) (CONTRACTED)
- Repair multiple deficiencies in Dikes and Revetments from RM 104.6 to 106.2.

Phase 2 (Yellow)
19,000 tons estimated

- Raise revetment 112.0 at Right Descending Bank
- Repair multiple deficiencies in Dikes and Revetments from RM 104.6 to 106.2.



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CUNNINGHAM

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
ST. CHARLES COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
CORA ISLAND CHUTE PROJECT

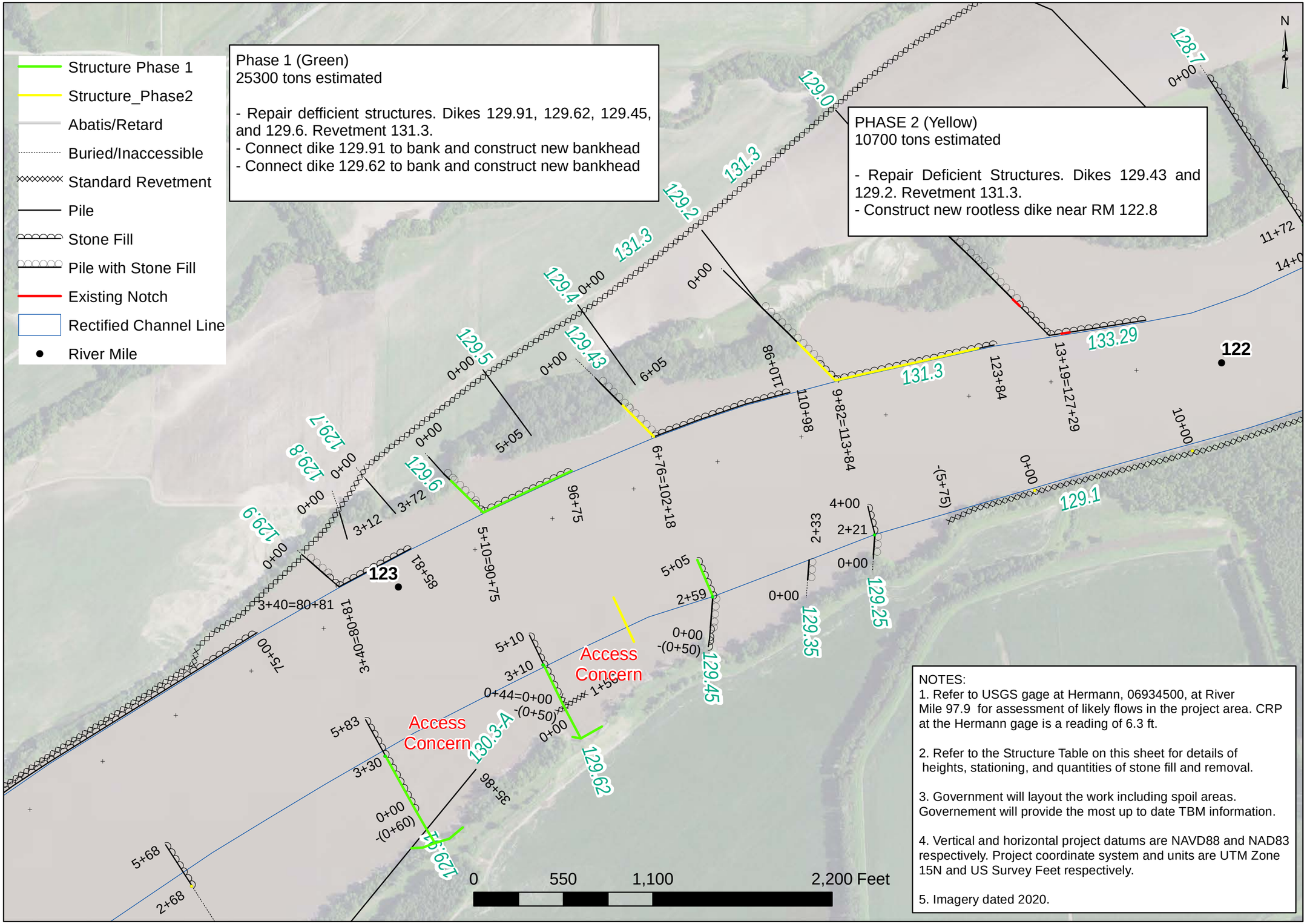
POST FLOOD AOC REPAIR
RM104 - GASCONADE

Sheet Reference Number:
C-100

PHASE 1

Document Path: C:\Users\G5ECHSJ3\Desktop\2021 AOC\Gasconade\Gasconade_10_4_B.mxd

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Auxvasse\RM122_Auxvasse.mxd



NOTES:

1. Refer to USGS gage at Hermann, 06934500, at River Mile 97.9 for assessment of likely flows in the project area. CRP at the Hermann gage is a reading of 6.3 ft.

2. Refer to the Structure Table on this sheet for details of heights, stationing, and quantities of stone fill and removal.

3. Government will layout the work including spoil areas. Governement will provide the most up to date TBM information.

4. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

5. Imagery dated 2020.

US Army Corps of Engineers
Kansas City District

Designed by: N. Clinsman
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CRAFTWICK
Date: AUGUST 2020

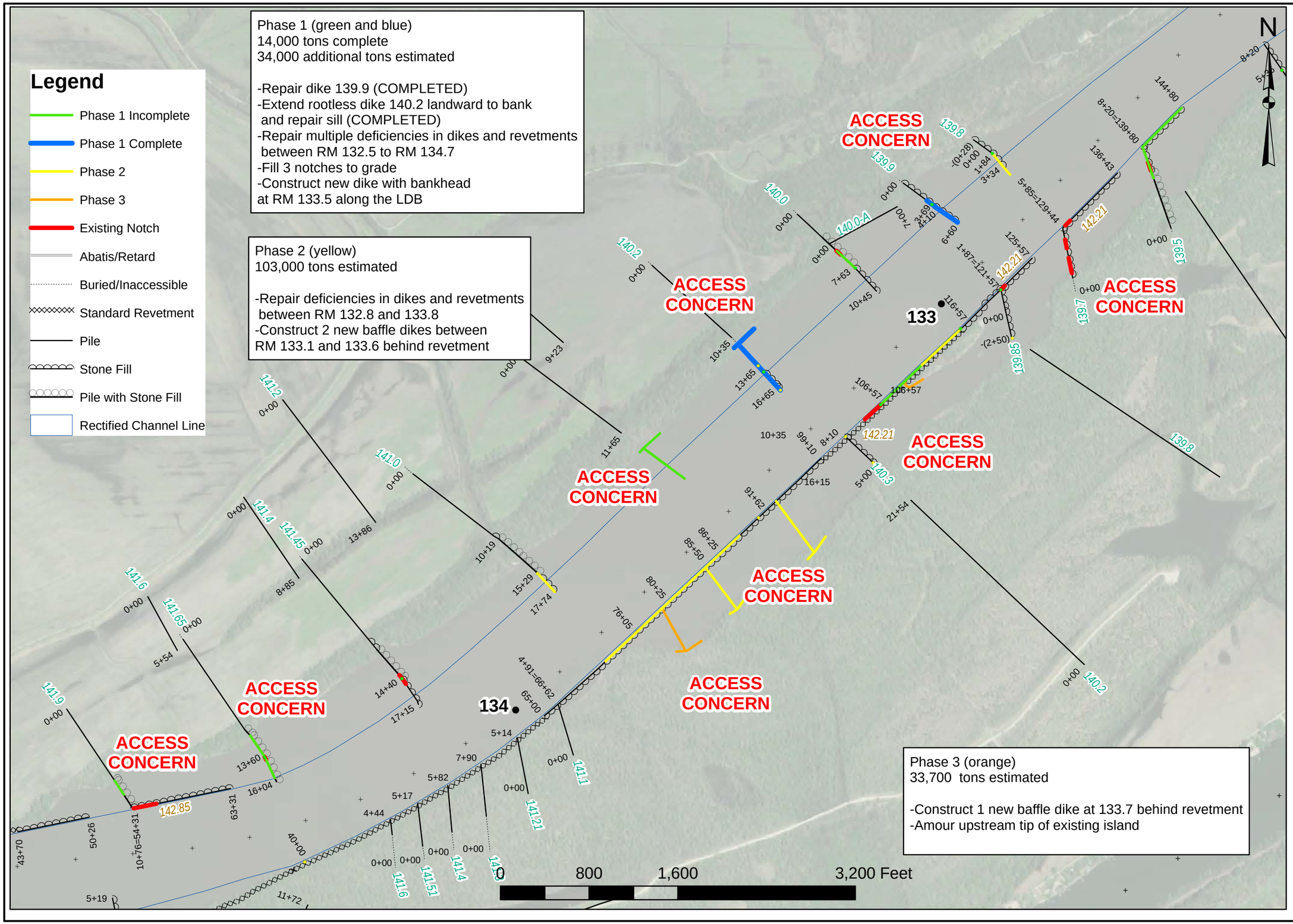
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
CALLAWAY COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
AXVASSE AOC PROJECT

POST FLOOD AOC REPAIR
AXVASSE BEND

Sheet Reference Number:
C-100

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Smoky_Waters\Smoky_Waters_10_4_.mxd



US Army Corps of Engineers
Kansas City District

Designed by: H. SHAUGHNESSY
Drawn by: T. BROWN
Date: 18 FEBRUARY 2021
Submitted by: M. CHAPMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

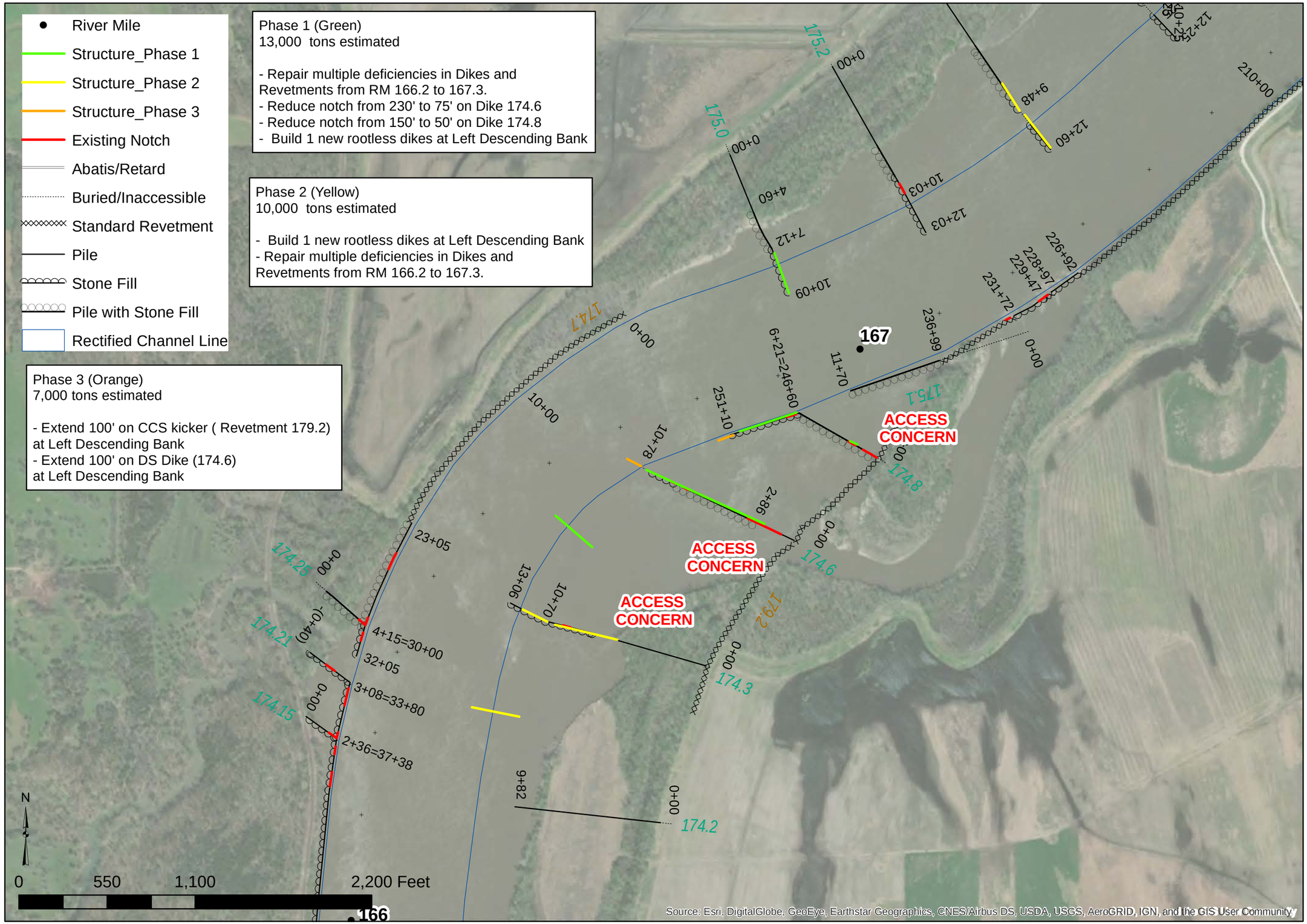
MISSOURI RIVER BASIN
COLE COUNTY, MISSOURI
FLOOD DAMAGE REPAIR

RM 133-SMOKY WATERS/ RISING CREEK BEND

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: C:\Users\G5ECHSJ3\Desktop\2021 AOC\Providence_Sandy_Hook\Providence_SandyHook_10_4New2.mxd



US Army Corps of Engineers
Kansas City District

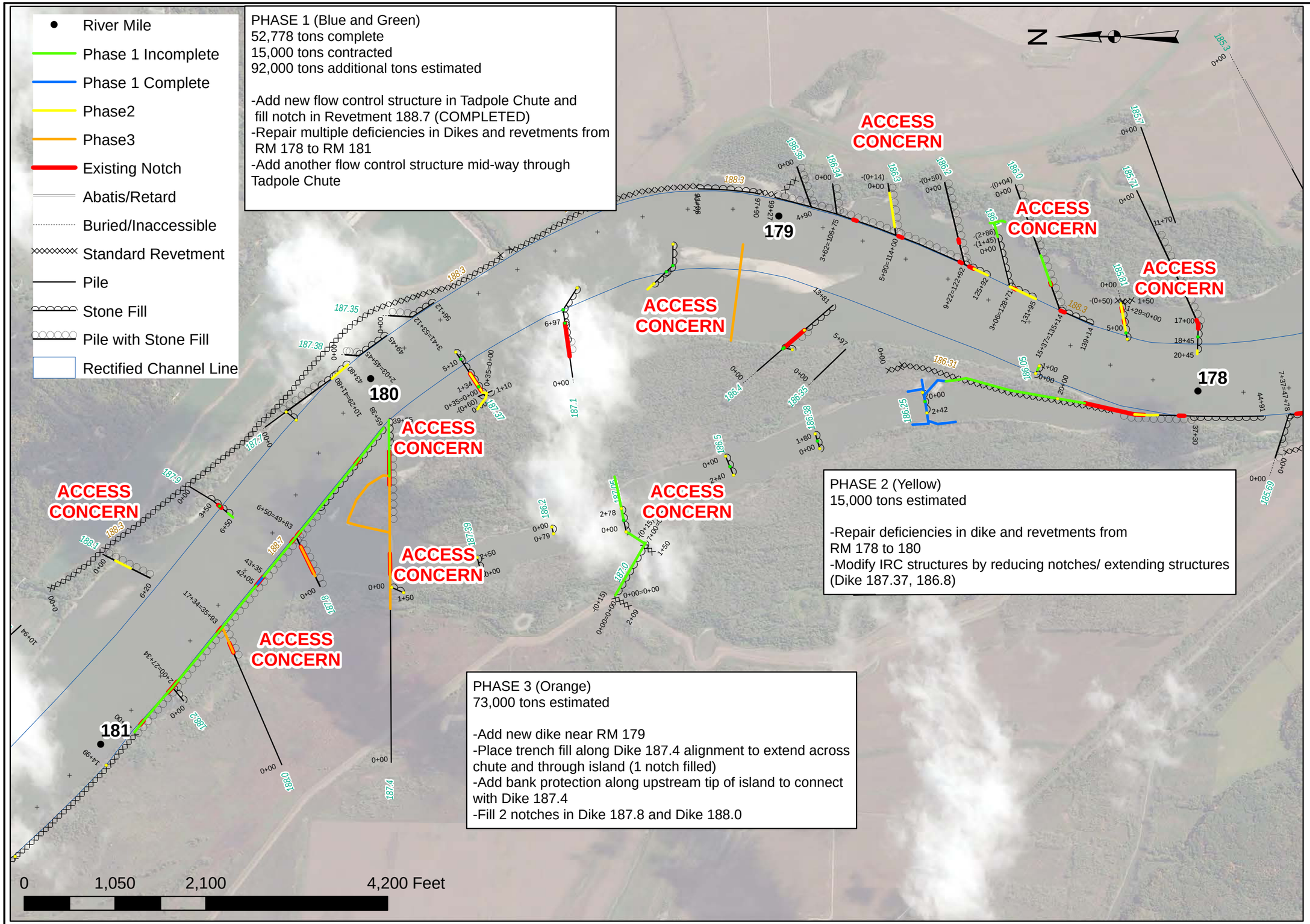
Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CHAPMAN
Date: AUGUST 2020

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM166 - PROVIDENCE

Sheet Reference Number:
C-100

PHASE 1



Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Tadpole_Searcy\Tadpole_Searcy_10_4.mxd

US Army Corps of Engineers
Kansas City District

Designed by: H. SHAUGHNESSY
Drawn by: T. BROWN
Submitted by: M. CLEVENGER
Date: 18 FEBRUARY 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

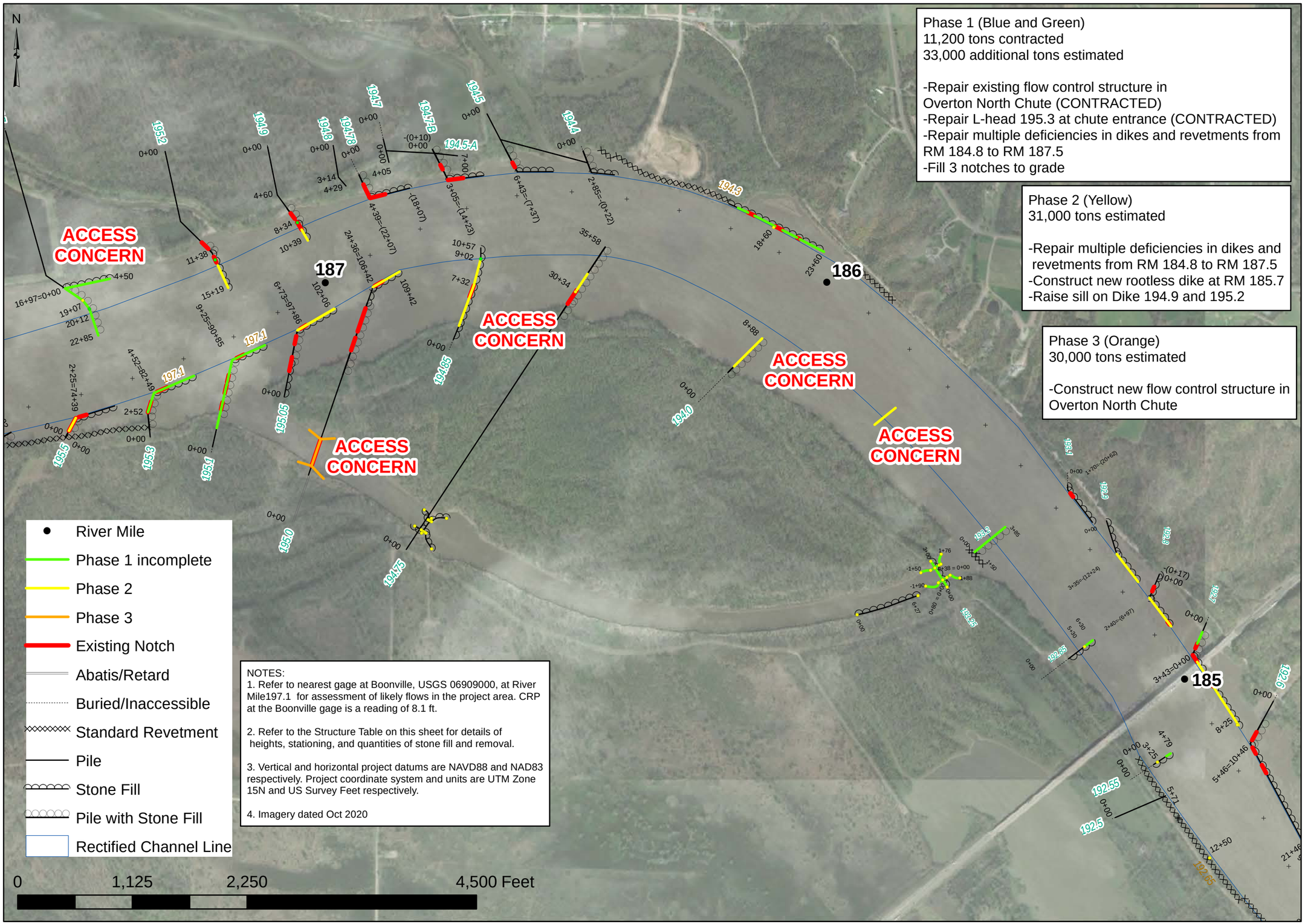
MISSOURI RIVER BASIN
BOONE COUNTY, MISSOURI
FLOOD DAMAGE REPAIR

RM 179- TADPOLE CHUTE AND SEARCYS IRC

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Overton\Overton_10_4.mxd



Phase 1 (Blue and Green)
11,200 tons contracted
33,000 additional tons estimated

-Repair existing flow control structure in Overton North Chute (CONTRACTED)
-Repair L-head 195.3 at chute entrance (CONTRACTED)
-Repair multiple deficiencies in dikes and revetments from RM 184.8 to RM 187.5
-Fill 3 notches to grade

Phase 2 (Yellow)
31,000 tons estimated

-Repair multiple deficiencies in dikes and revetments from RM 184.8 to RM 187.5
-Construct new rootless dike at RM 185.7
-Raise sill on Dike 194.9 and 195.2

Phase 3 (Orange)
30,000 tons estimated

-Construct new flow control structure in Overton North Chute

NOTES:
1. Refer to nearest gage at Boonville, USGS 06909000, at River Mile197.1 for assessment of likely flows in the project area. CRP at the Boonville gage is a reading of 8.1 ft.

2. Refer to the Structure Table on this sheet for details of heights, stationing, and quantities of stone fill and removal.

3. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

4. Imagery dated Oct 2020

US Army Corps of Engineers
Kansas City District

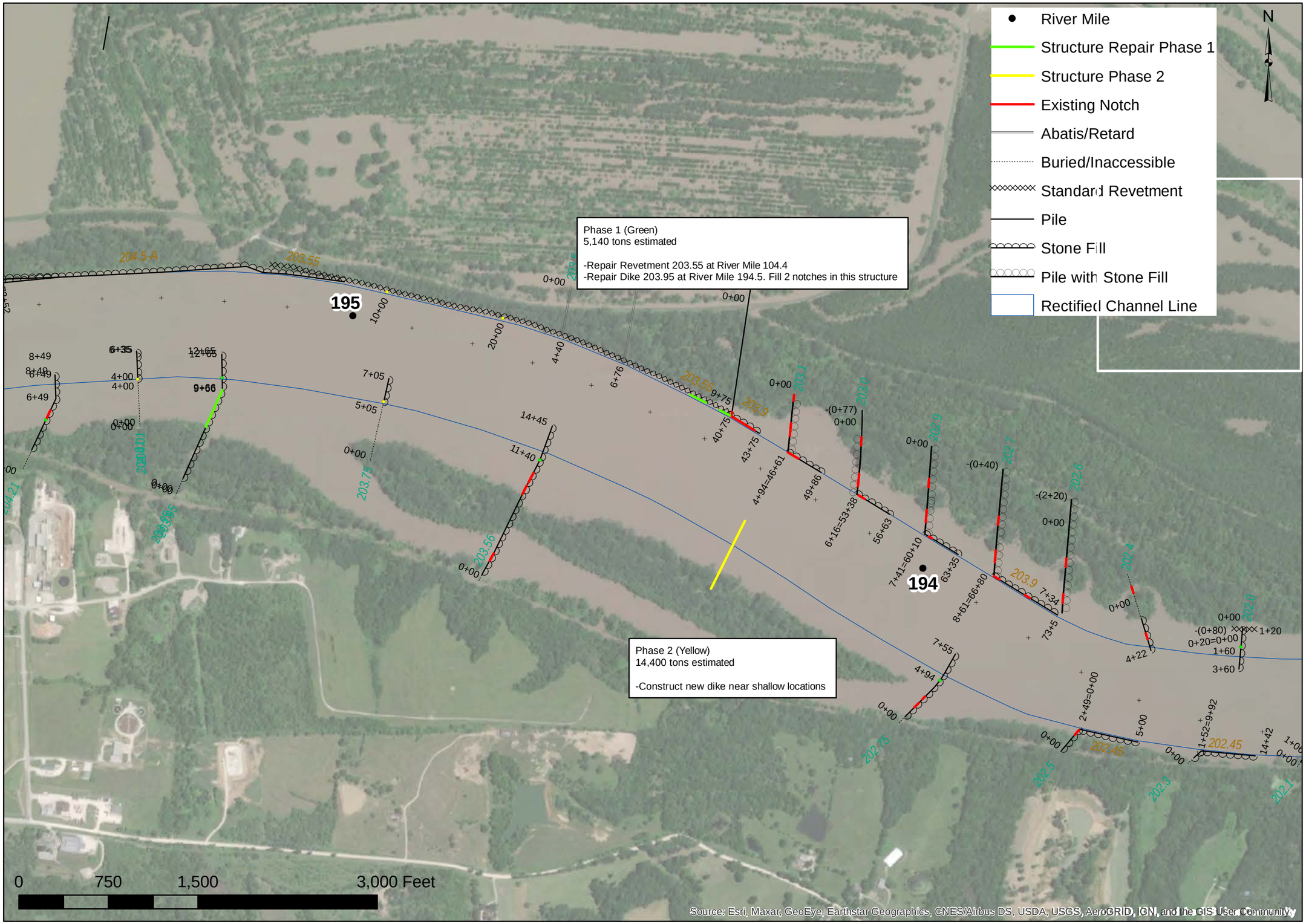
Date: 18 FEB 2021
Designed by: H. SHAUGHNESSY
Drawn by: T. BROWN
Submitted by: M. CHAPMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
HOWARD, BOONE, COOPER COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
RM 187-
OVERTON NORTH CHUTE/
ROCHEPORT BEND

Sheet Reference Number:
C-100

PHASE 1,2,3



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CLAYMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

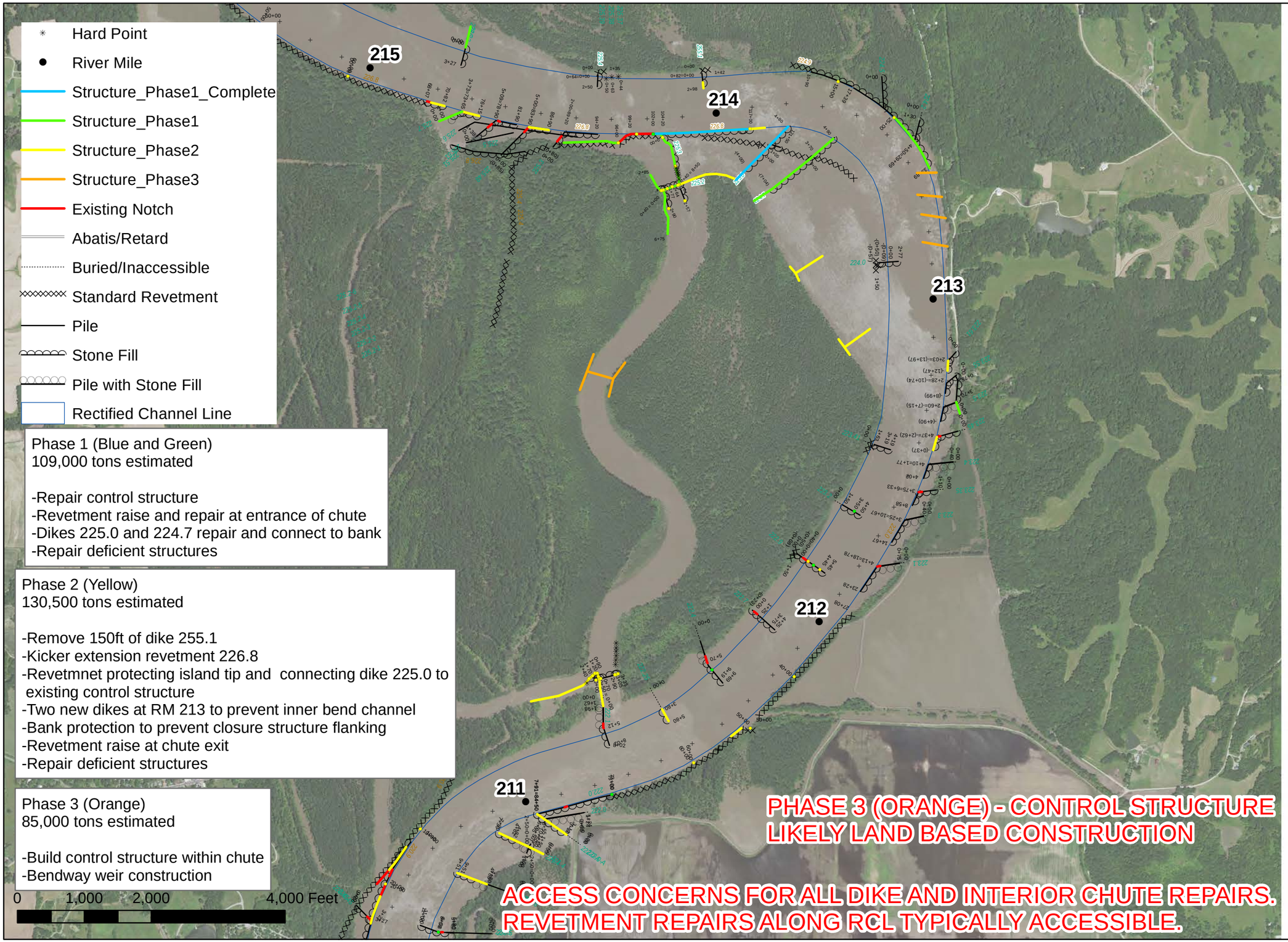
FRANKLIN ISLAND-RM 194
SITE PLAN

Sheet Reference Number:
C-100

PHASE 1

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Franklin\Franklin_10_4.mxd

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Jameson\Jameson_v2.mxd



N

US Army Corps of Engineers
Kansas City District

Date: FEBRUARY 2021

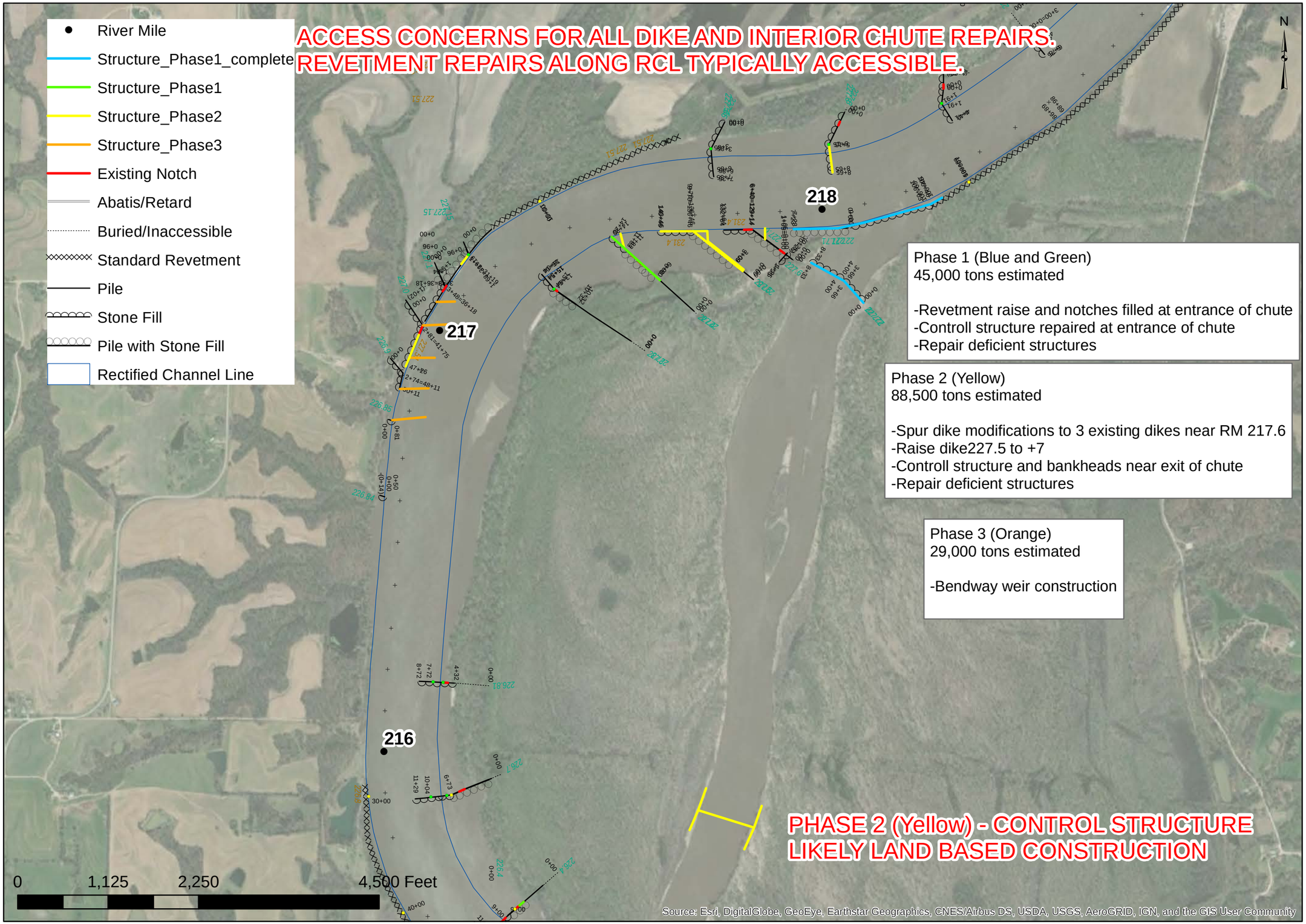
Designed by: D. SCHRADER
Drawn by: D. MORRIS
Submitted by: M. CONNAWAY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM213 - JAMESON ISLAND

Sheet Reference Number:
C-100

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Lisbon\Lisbon_v2.mxd



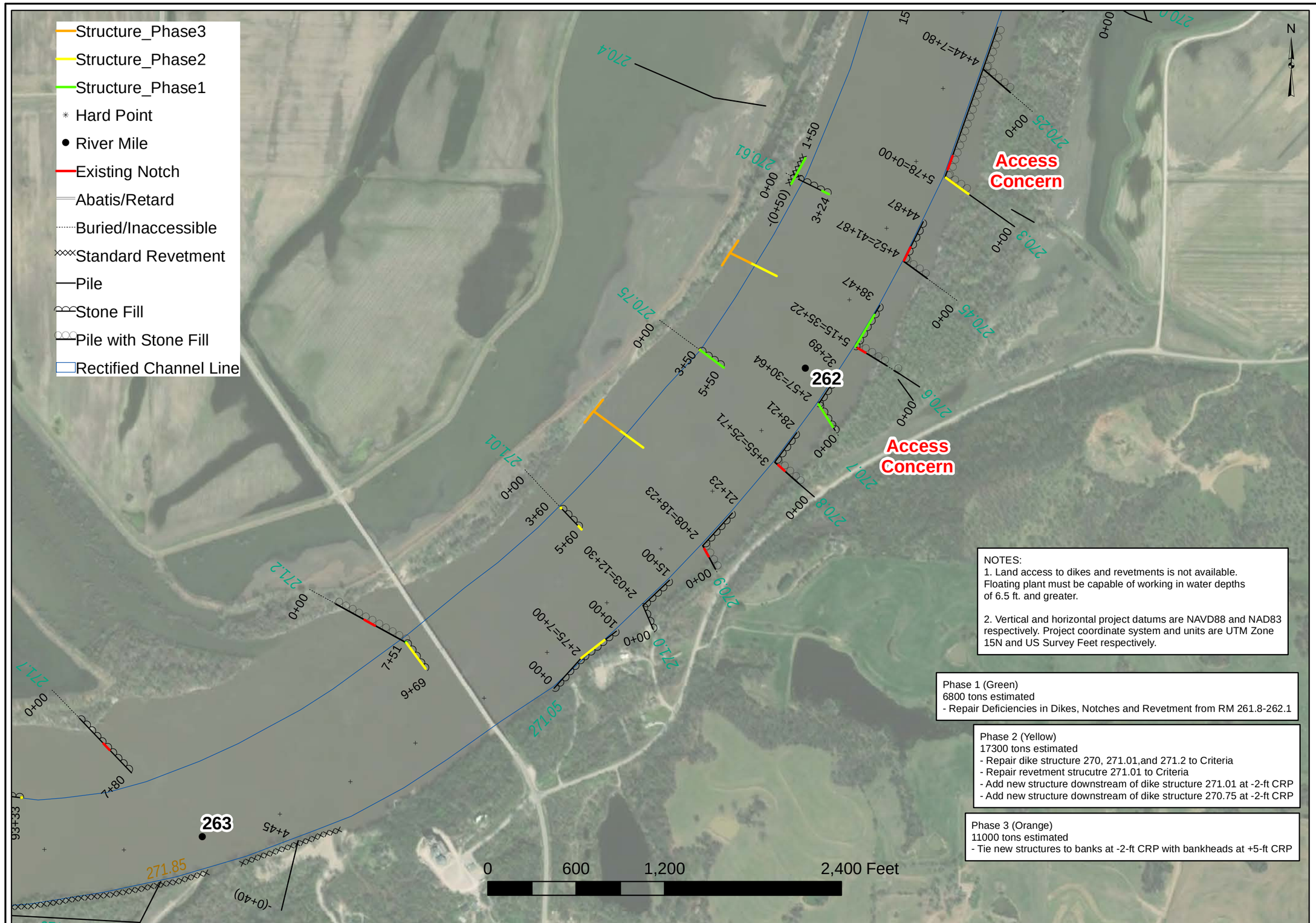
US Army Corps of Engineers
Kansas City District

Date: FEBRUARY 2021
Designed by: D. SCHRADER
Drawn by: D. MORRIS
Submitted by: M. CRAWMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM217 - LISBON

Sheet Reference Number:
C-100



NOTES:
1. Land access to dikes and revetments is not available. Floating plant must be capable of working in water depths of 6.5 ft. and greater.

2. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

Phase 1 (Green)
6800 tons estimated
- Repair Deficiencies in Dikes, Notches and Revetment from RM 261.8-262.1

Phase 2 (Yellow)
17300 tons estimated
- Repair dike structure 270, 271.01,and 271.2 to Criteria
- Repair revetment strucutre 271.01 to Criteria
- Add new structure downstream of dike structure 271.01 at -2-ft CRP
- Add new structure downstream of dike structure 270.75 at -2-ft CRP

Phase 3 (Orange)
11000 tons estimated
- Tie new structures to banks at -2-ft CRP with bankheads at +5-ft CRP

US Army Corps of Engineers
Kansas City District

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

Designed by: G. FIGUEROA TORO
Drawn by: T. BROWN
G. FIGUEROA TORO
Submitted by: M. CUNNINGHAM
Date: JANUARY 2021

MISSOURI RIVER BASIN
SALINE COUNTY, MISSOURI
POST FLOOD DAMAGE REPAIR
UPPER MIAMI PROJECT

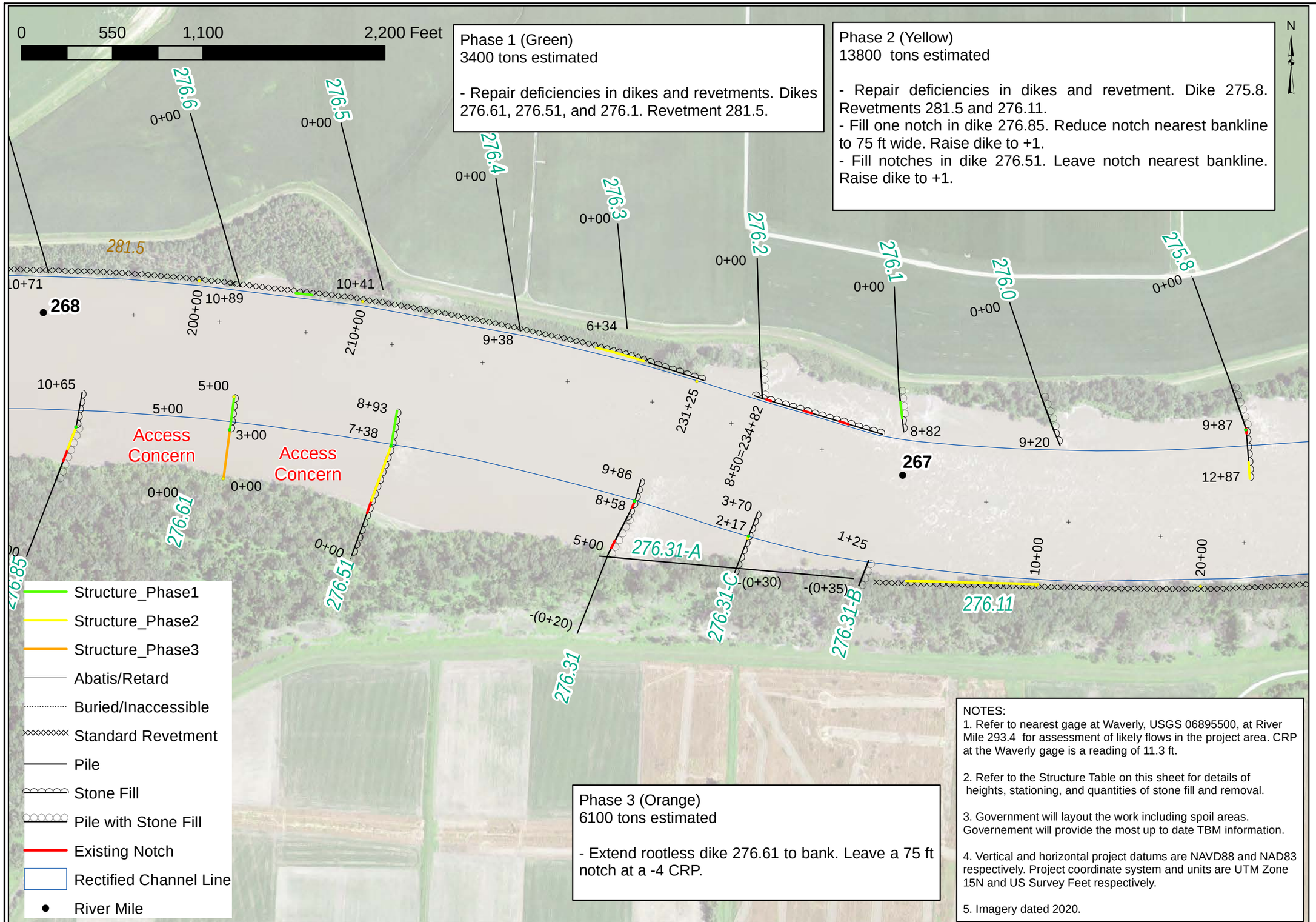
POST FLOOD AOC REPAIRS RM 262 UPPER MIAMI

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: C:\Users\g5edhgf9\Desktop\Figueroa\2021 AOC\GIS\Upper_Miami\Upper_Miami.mxd

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Prunty\RM269_Prunty.mxd



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: N. CHRISMAN
Drawn by: T. BROWN
D. MORRIS
Submitted by: N. CHRISMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

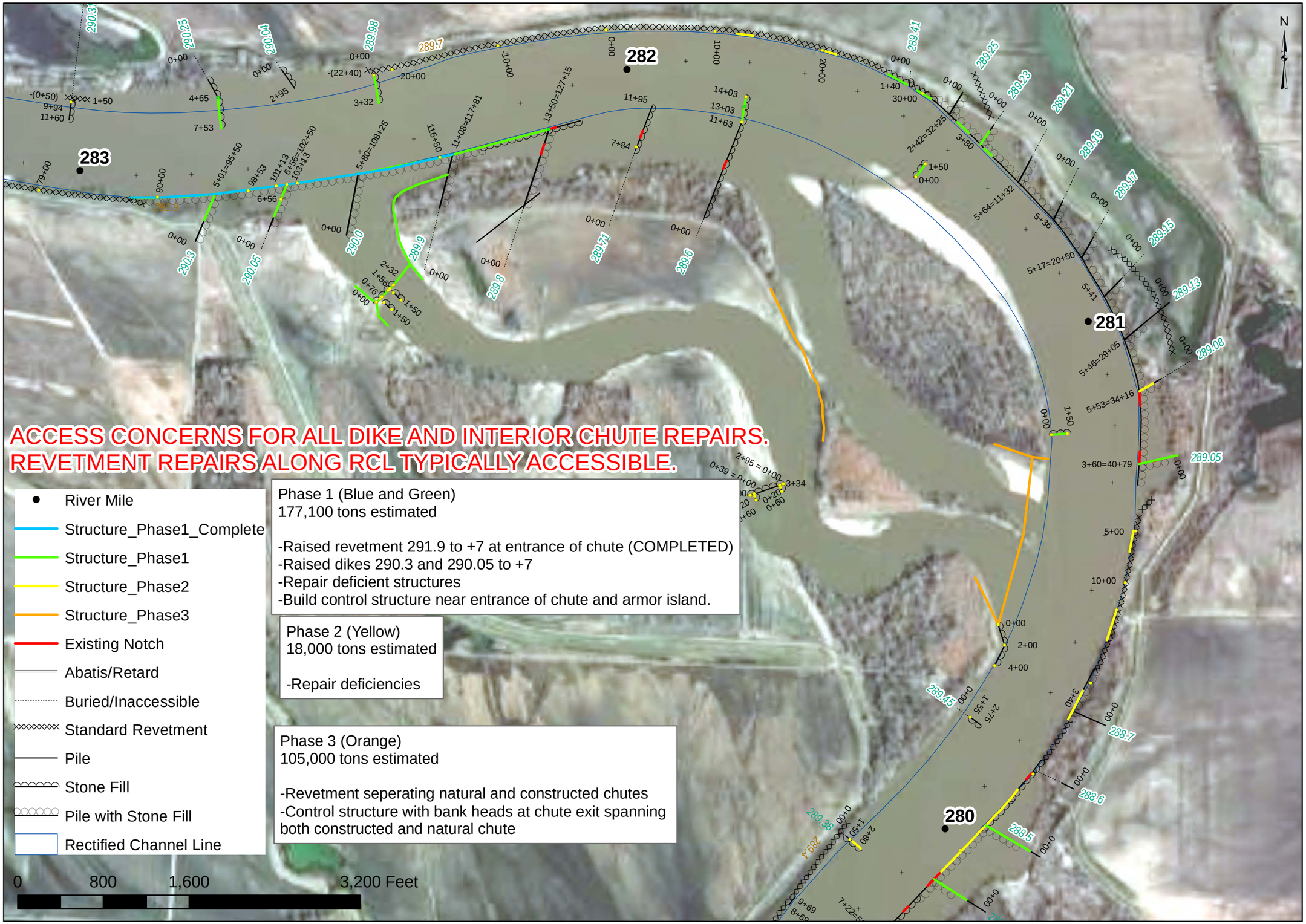
MISSOURI RIVER BASIN
CARROLL COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
PRUNTY AOC PROJECT

Post Flood AOC Repair
Prunty Bend

Sheet Reference Number:
C-100

PHASE 1

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Cranberry\Cranberry_v2.mxd



US Army Corps of Engineers
Kansas City District

Designed by: D. SCHRADER
Drawn by: D. MORRIS
Submitted by: M. CAVANAUGH
Date: FEBRUARY 2021

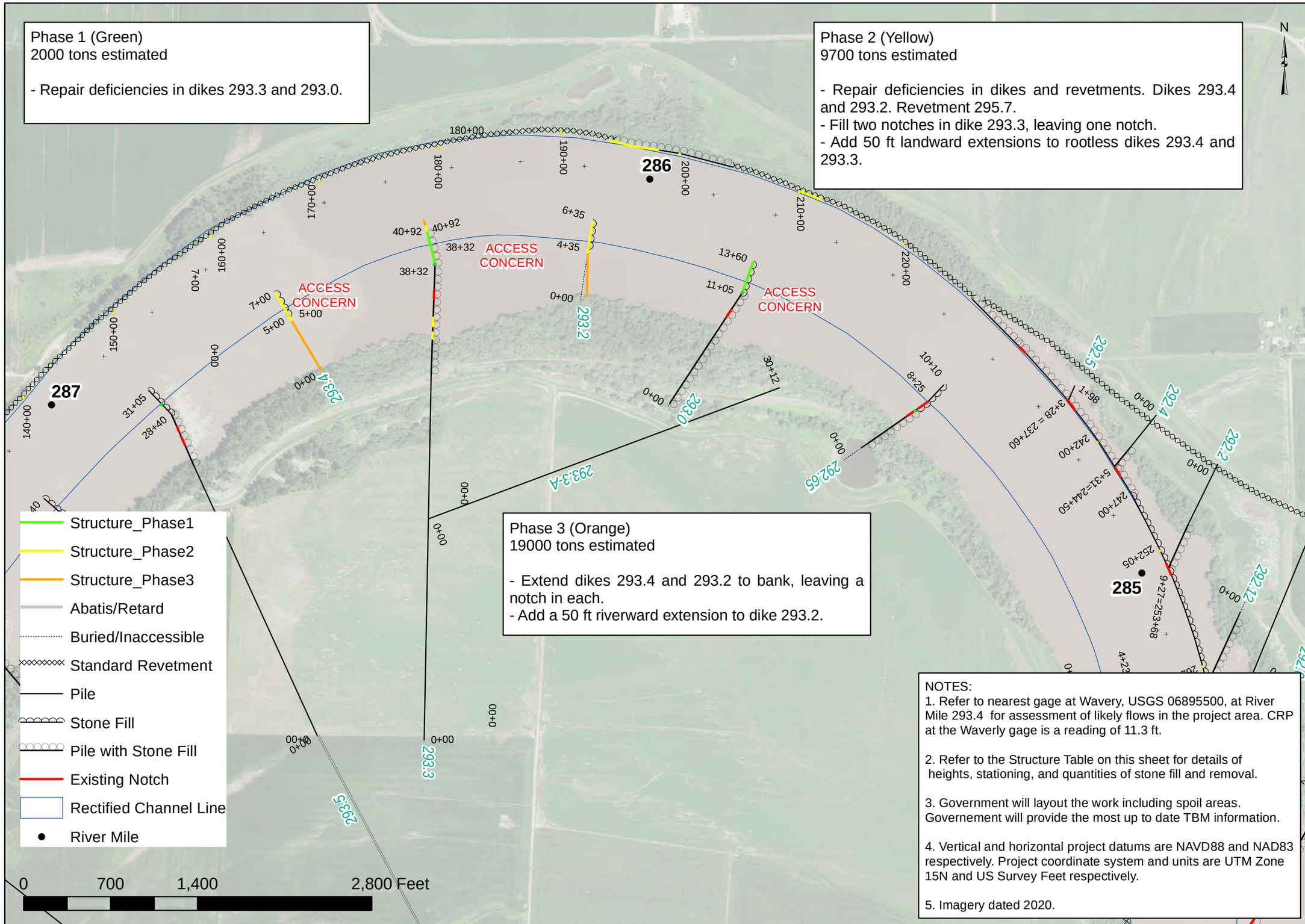
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

POST FLOOD AOC REPAIR
RM282 - CRANBERRY

Sheet Reference Number:
C-100

PHASE 1

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Bakers\RM286_Bakers.mxd



NOTES:

1. Refer to nearest gage at Wavery, USGS 06895500, at River Mile 293.4 for assessment of likely flows in the project area. CRP at the Waverly gage is a reading of 11.3 ft.

2. Refer to the Structure Table on this sheet for details of heights, stationing, and quantities of stone fill and removal.

3. Government will layout the work including spoil areas. Governement will provide the most up to date TBM information.

4. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

5. Imagery dated 2020.

US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

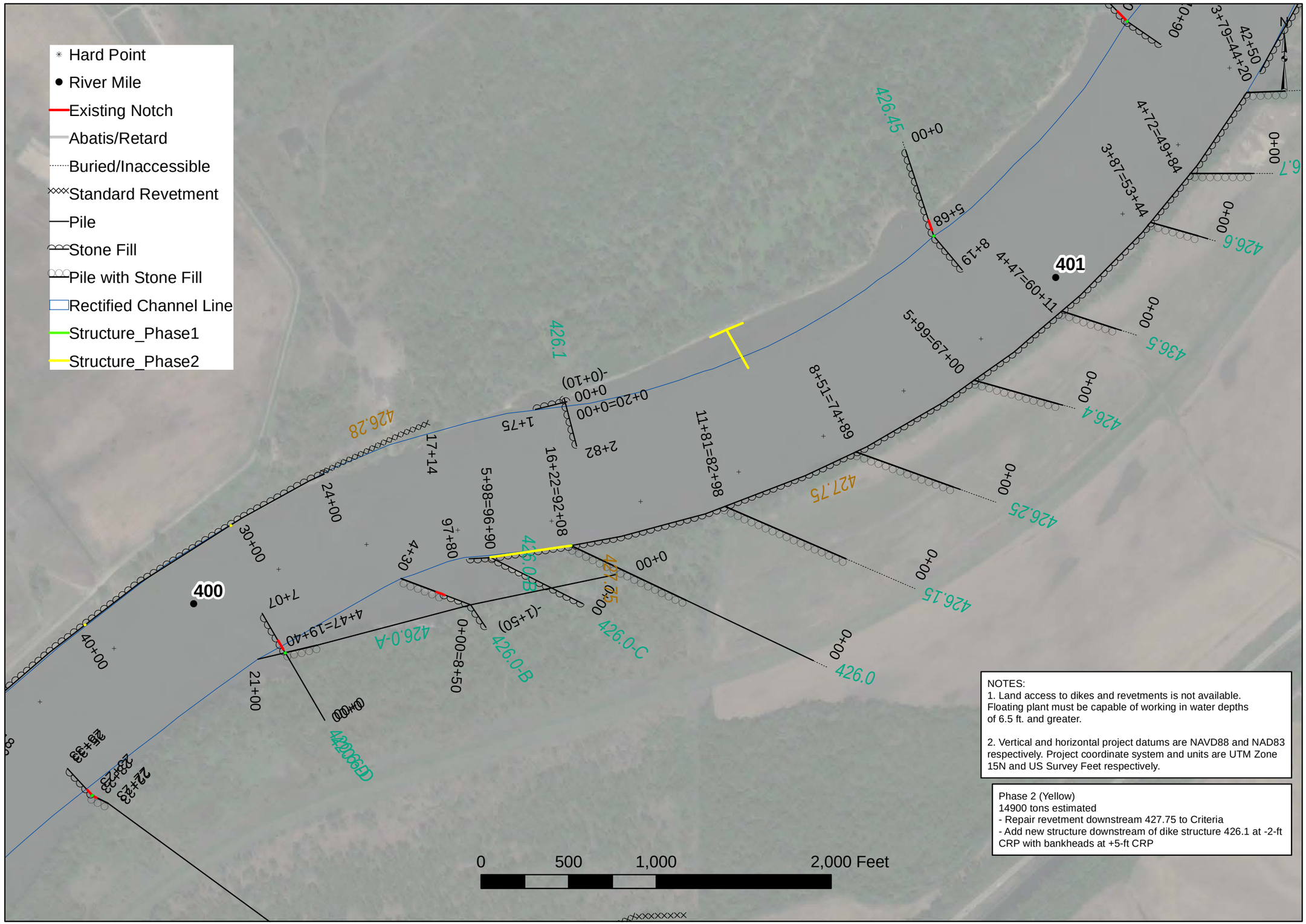
Designed by: N. Chrisman
Drawn by: T. BROWN
D. MORRIS
Submitted by: N. CHRISMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
CARROL COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
BAKERS BEND AOC PROJECT

POST FLOOD AOC REPAIR BAKERS BEND

Sheet Reference Number:
C-100



NOTES:
1. Land access to dikes and revetments is not available. Floating plant must be capable of working in water depths of 6.5 ft. and greater.

2. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

Phase 2 (Yellow)
14900 tons estimated
- Repair revetment downstream 427.75 to Criteria
- Add new structure downstream of dike structure 426.1 at -2-ft CRP with bankheads at +5-ft CRP

US Army Corps of Engineers
Kansas City District

Designed by: G. FIGUEROA TORO
Drawn by: T. BROWN
Date: JANUARY 2021
G. FIGUEROA TORO
Submitted by: M. CLAYBAUGH

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
PLATTE COUNTY, MISSOURI
POST FLOOD DAMAGE REPAIR
WESTON PROJECT

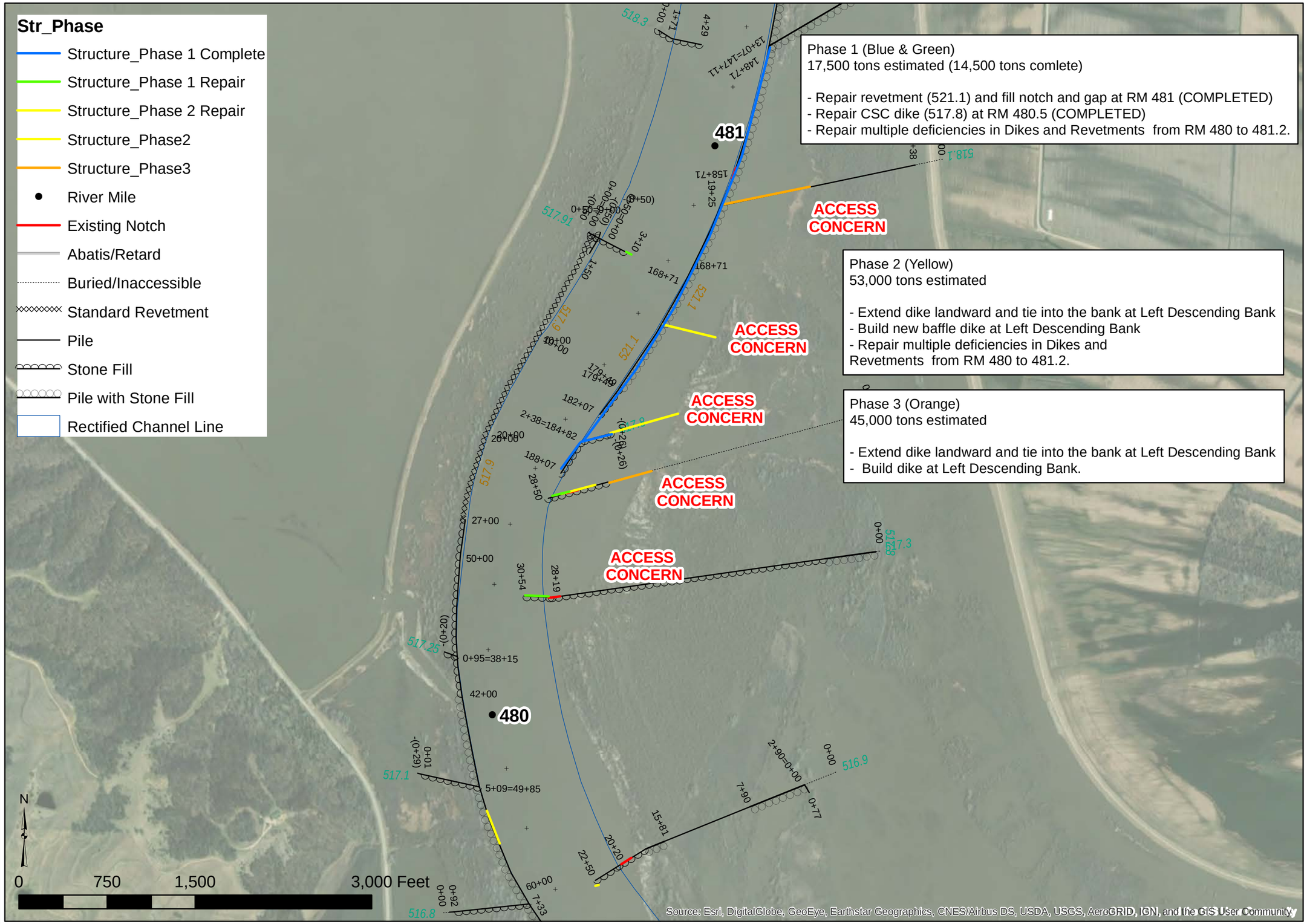
POST FLOOD AOC REPAIRS
RM 400 WESTON

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: C:\Users\g5edhgf9\Desktop\Figueroa\2021 AOC\GIS\Weston\Weston.mxd

Document Path: C:\Users\G5ECHSJ3\Desktop\2021 AOC\Wolf_Creek\Wolf_Creek_10_4.NEW.mxd



Phase 1 (Blue & Green)
17,500 tons estimated (14,500 tons comlete)

- Repair revetment (521.1) and fill notch and gap at RM 481 (COMPLETED)
- Repair CSC dike (517.8) at RM 480.5 (COMPLETED)
- Repair multiple deficiencies in Dikes and Revetments from RM 480 to 481.2.

Phase 2 (Yellow)
53,000 tons estimated

- Extend dike landward and tie into the bank at Left Descending Bank
- Build new baffle dike at Left Descending Bank
- Repair multiple deficiencies in Dikes and Revetments from RM 480 to 481.2.

Phase 3 (Orange)
45,000 tons estimated

- Extend dike landward and tie into the bank at Left Descending Bank
- Build dike at Left Descending Bank.

US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020
Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CHAPMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
ST. CHARLES COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
CORA ISLAND CHUTE PROJECT

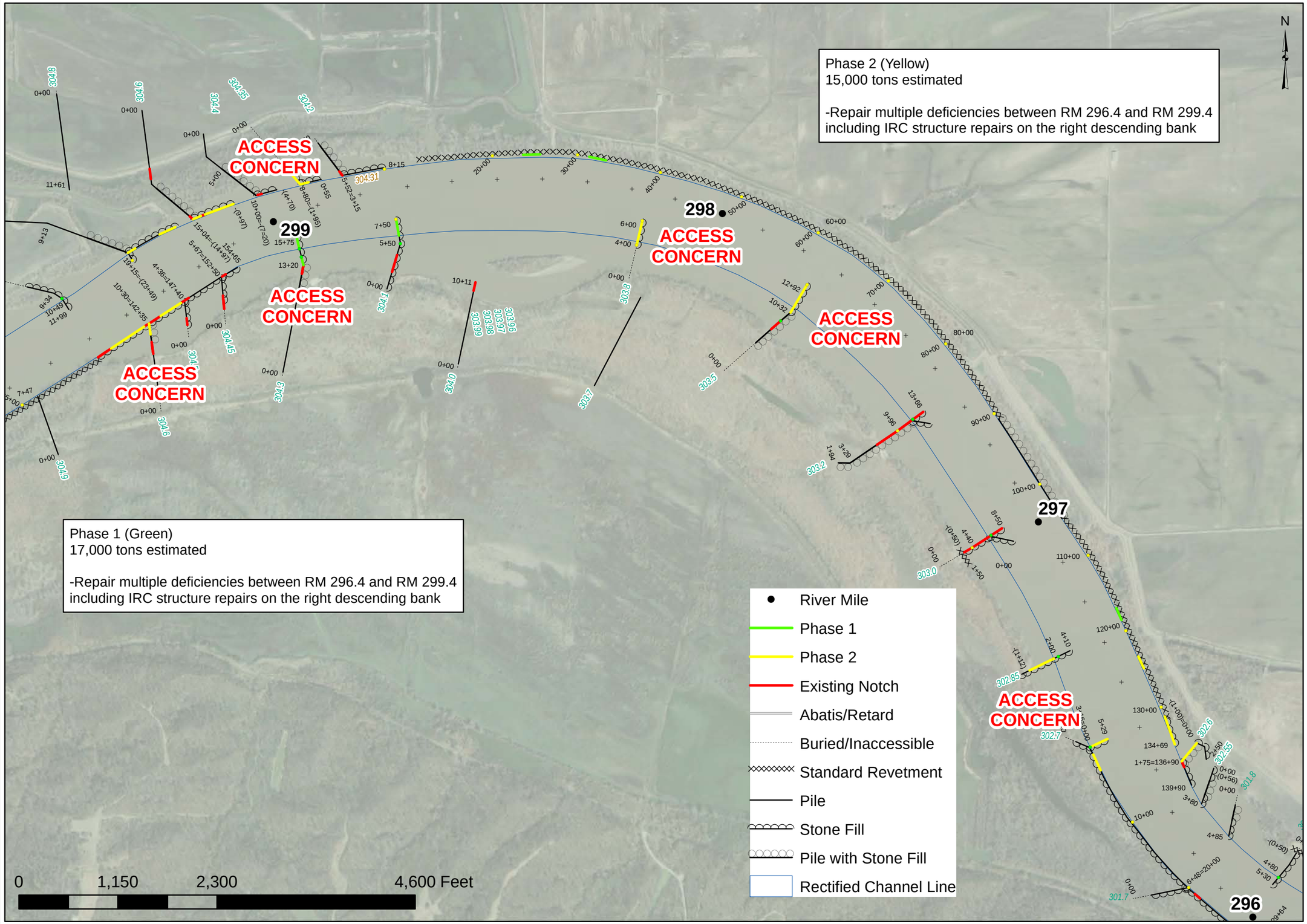
POST FLOOD AOC REPAIR
RM480 - WOLF CREEK

Sheet Reference Number:
C-100

PHASE 1

ADDITIONAL MRRP SITES

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Baltimore\Baltimore_10_4.mxd



US Army Corps of Engineers
Kansas City District

Designed by: H. SHAUGHNESSY
Drawn by: T. BROWN
Submitted by: M. CRAFTON
Date: 18 FEB 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

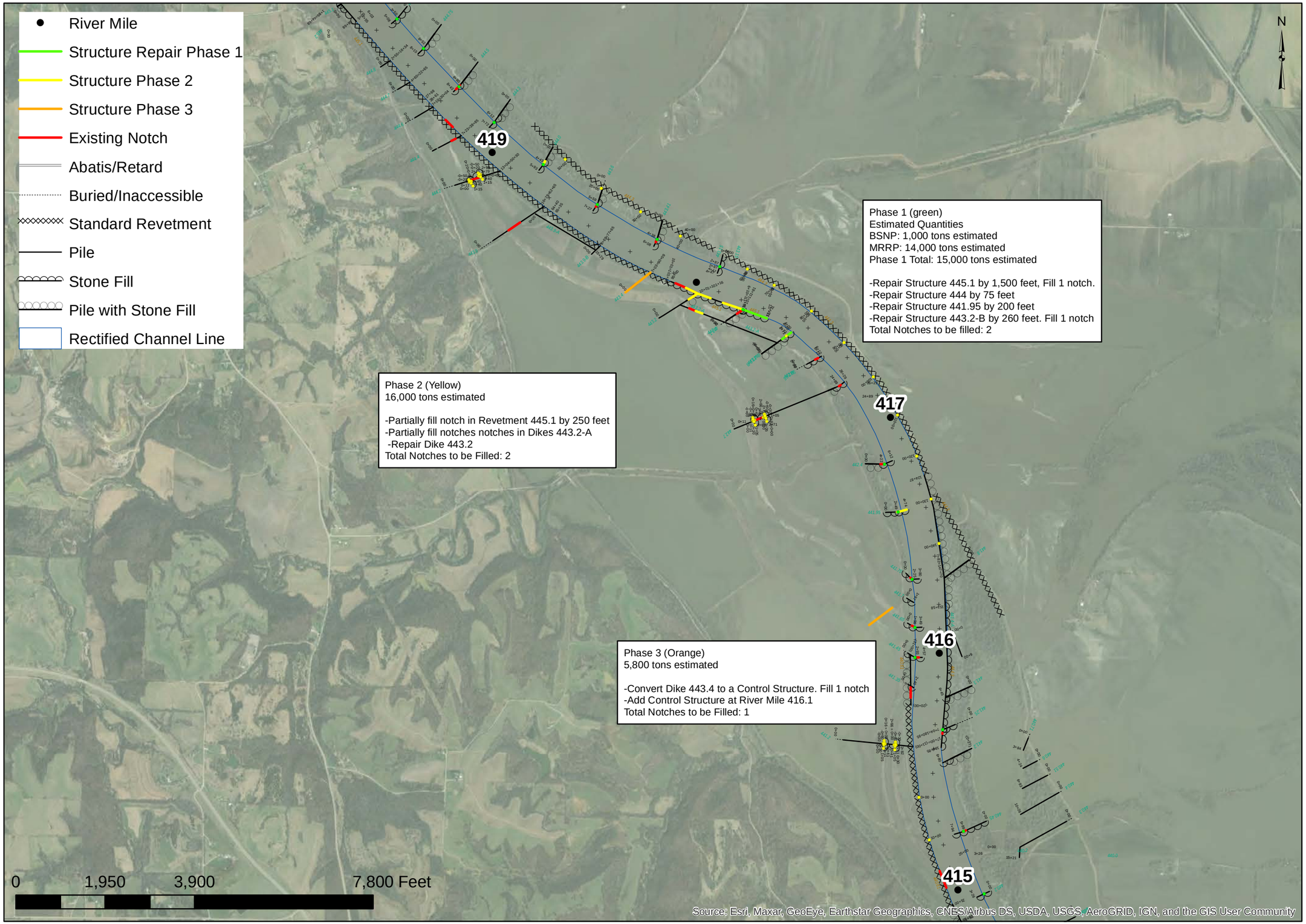
MISSOURI RIVER BASIN
LAFAYETTE COUNTY, MISSOURI
FLOOD DAMAGE REPAIR

RM 298-
BALTIMORE BOTTOMS/
MOBERLY BEND IRC

Sheet Reference Number:
C-100

PHASE 1,2,3

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Dalbey\Dalbey_10_4.mxd



US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020
Designed by: D. SCHRADER
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CHAPMAN

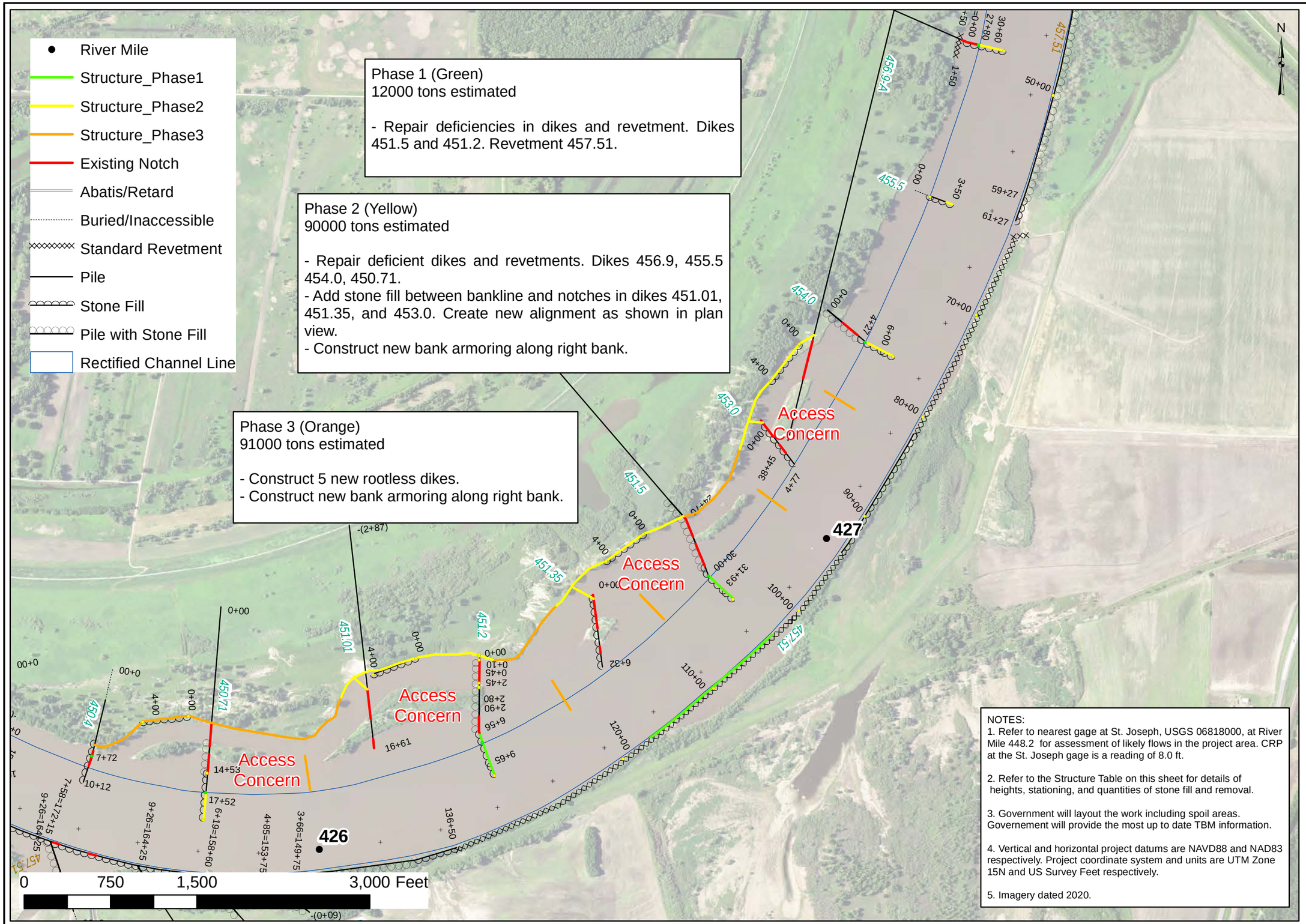
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

DALBEY CHUTE-RM 194
SITE PLAN

Sheet Reference Number:
C-100

PHASE 1

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Benedictine\MRRP_RM427_Benedictine.mxd



NOTES:
1. Refer to nearest gage at St. Joseph, USGS 06818000, at River Mile 448.2 for assessment of likely flows in the project area. CRP at the St. Joseph gage is a reading of 8.0 ft.

2. Refer to the Structure Table on this sheet for details of heights, stationing, and quantities of stone fill and removal.

3. Government will layout the work including spoil areas. Governement will provide the most up to date TBM information.

4. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

5. Imagery dated 2020.

US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020

Designed by: N. Chrisman
Drawn by: T. BROWN
D. MORRIS
Submitted by: N. CHRISMAN

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

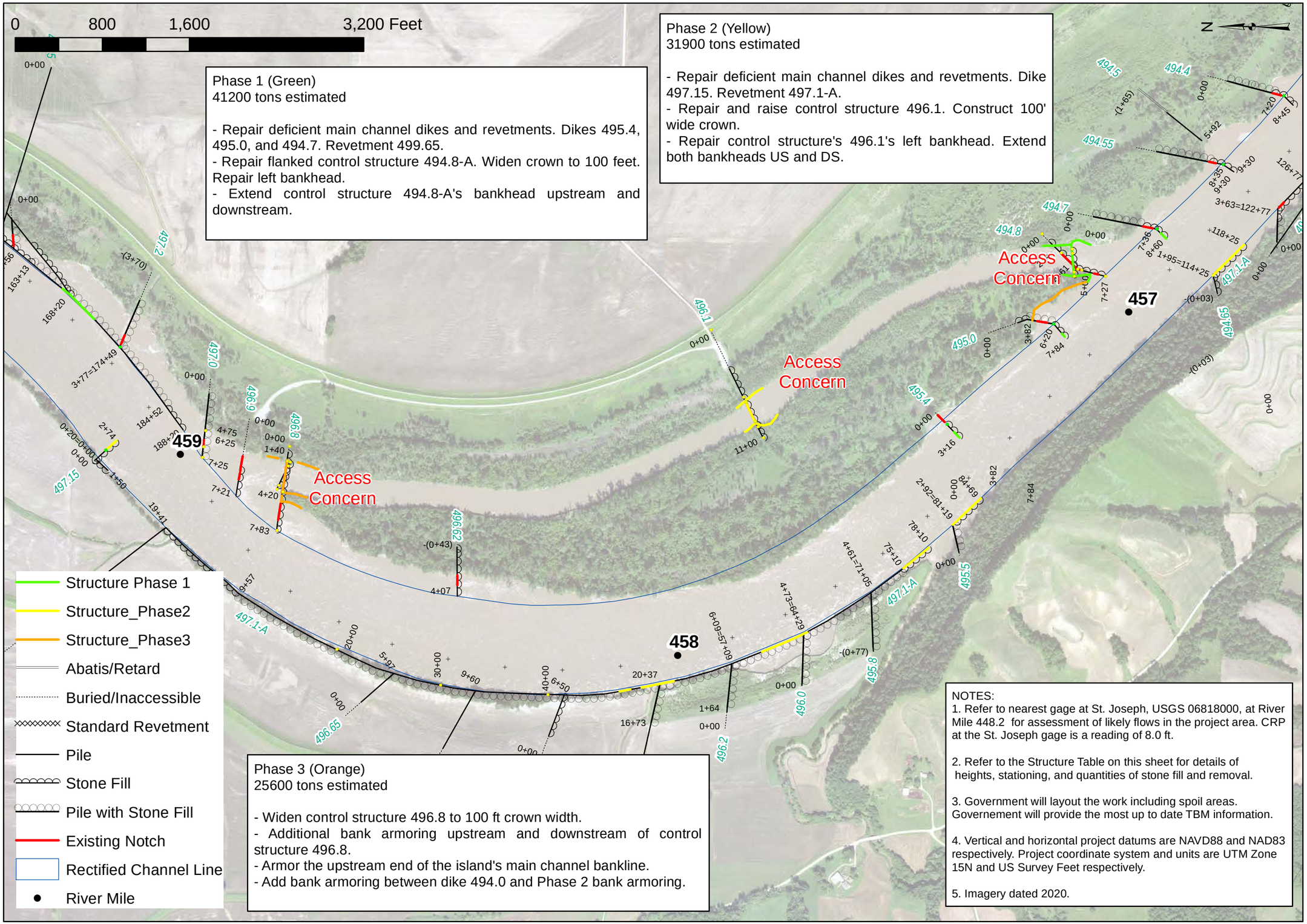
MISSOURI RIVER BASIN
ATCHISON COUNTY, KANSAS
FLOOD DAMAGE REPAIR
BENEDICTINE CHUTE PROJECT

POST FLOOD AOC REPAIR
BENEDICTINE BOTTOMS

Sheet Reference Number:
C-100

PHASE 1

Document Path: P:\EDH-R\BSNP\2021 Post Flood AOC Repair Effort\GIS\Worthwine\MRRP_RM459_Worthwine.mxd



NOTES:
1. Refer to nearest gage at St. Joseph, USGS 06818000, at River Mile 448.2 for assessment of likely flows in the project area. CRP at the St. Joseph gage is a reading of 8.0 ft.

2. Refer to the Structure Table on this sheet for details of heights, stationing, and quantities of stone fill and removal.

3. Government will layout the work including spoil areas. Governement will provide the most up to date TBM information.

4. Vertical and horizontal project datums are NAVD88 and NAD83 respectively. Project coordinate system and units are UTM Zone 15N and US Survey Feet respectively.

5. Imagery dated 2020.

US Army Corps of Engineers
Kansas City District

Date: AUGUST 2020
Designed by: N. Chesman
Drawn by: T. BROWN
D. MORRIS
Submitted by: M. CSIPKAI

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

MISSOURI RIVER BASIN
ANDREW COUNTY, MISSOURI
FLOOD DAMAGE REPAIR
WORTHWINE CHUTE PROJECT

POST FLOOD AOC REPAIR
WORTHWINE CHUTE

Sheet Reference Number:
C-100

PHASE 1