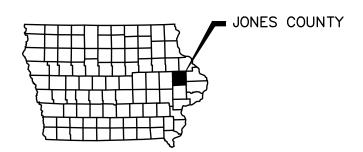
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR WAPSIPINICON STATE PARK FEMA FLOOD REPAIRS JONES COUNTY, IOWA

PROJECT #23-06-53-01





DIRECTORY					
PROJECT MANAGER		CONSTRUCTION INSPECTOR			
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY			
ADDRESS	502 EAST 9TH STREET	ADDRESS	IOWA DEPARTMENT OF NATURAL RESOURCES		
CITY,STATE,ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	2564 AMANA ROAD, SWISHER, IA 52338		
CONTACT	MICHAEL DUFOE	CONTACT	MARK MOELLER		
TELEPHONE	515-985-9196	TELEPHONE	515-214-9532		
FAX		FAX			
EMAIL	michael.dufoe@dnr.iowa.gov	EMAIL	mark.moeller@dnr.iowa.gov		

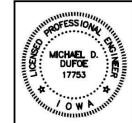
PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF 18 WEIRS ALONG THE WAPSIPINICON RIVER BANK WITHIN WAPSIPINICON STATE PARK IN JONES COUNTY, IA DAMAGED IN THE 2019 FLOODS.

CONSTRUCTION PER IOWA DEPARTMENT OF TRANSPORTATION NEWEST SPECIFICATIONS.



AUTHORIZ	ZATION TO B I D	THE SERVICE OF THE PARTY OF THE
Seth Moore	Digitally signed by Seth Moore Date: 2024.01.25 16:38:21 -06'00'	MICHAEL D.
AUTHORIZATION - PARKS WILDLIFE FISH	IERIES LAW ENFORCEMENT FORESTRY DATI	DUFOE 17753
ENGINEERING BUREAU CHIEF	DATE	- manualis



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT
WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL
SUPERVISION AND THAT I AM A DULY LICENSED PROFES-
SIONAL FACINIFFR LINDER THE LAWS OF THE STATE OF
IOWA.

Michael Dufoe Digitally signed by Michael Dufoe Date: 2024.01.25 08:45:18-06/00'

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025 PAGES OR SHEETS COVERED BY THIS SEAL:

SHEET INDEX

VERALL STAGING AND ACCESS PLAN

JTCH CREEK BANK REPAIR

OVER SHEET

ENERAL NOTES

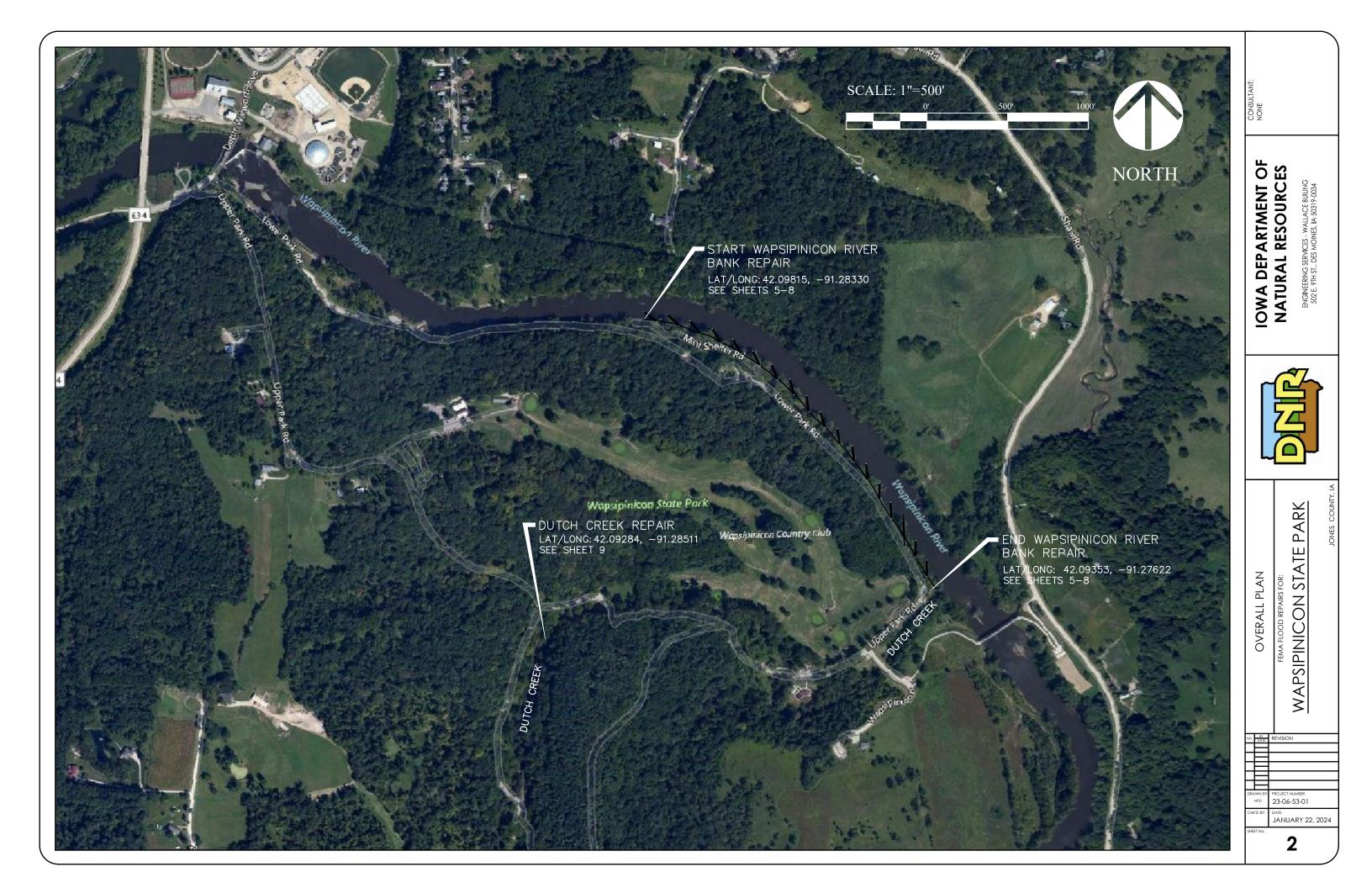
IOWA DEPARTMENT OF NATURAL RESOURCES



STATE

SHEET **WAPSIPINICON** OVER

23-06-53-01 JANUARY 22, 2024



APPLICABLE CONDITIONS FROM FEMA RECORD OF ENVIRONMENTAL CONSIDERATION (REC):

- 1. All temporary storage facilities for petroleum products, other fuels, and chemicals shall be located and protected to prevent accidental spills from entering the stream, its tributaries, or off channel wetland complexes/oxbows within the project area.
- 2. All riprap and other project material that will be placed in or adjacent to the stream shall be clean, and free of fine particles and chemicals.
- 3. There shall be no deposition of cement sweepings, washings, treatment chemicals, or other material into the stream proper or into any location where such pollutants can be washed into the stream by runoff water.
- 4. Close attention is warranted for the placement and maintenance of temporary erosion and sediment control measures to minimize unnecessary sediment loading into the stream. Appropriate temporary erosion control measures or temporary grass seeding should be in place within one week of land disturbance at the project site. Other applicable erosion and turbidity control measures should be implemented at these sites, as sediment loading could result in considerable harm to both the Higgins eye mussel and its habitat.
- 5. All areas denuded of vegetation as a result of the action, including any borrow areas that drain into the stream shall be reseeded within one month following completion of construction.
- 6. Equipment will be cleaned and decontaminated to minimize the spread of zebra mussels utilizing accepted protocols. Refer to IMCDecon-Guide-4.3.2017.pdf (invasivemusselcollaborative.net).

APPLICABLE CONDITIONS FROM State 401 Water Quality Certification:

- (1) During construction and upon completion of the project, actions must be taken to prevent pollution affecting public health, fish, shellfish, wildlife, and recreation due to turbidity, pH, nutrients, suspended solids, floating debris, visible oil and grease, or other pollutants entering a water of the state. This condition will ensure permittees comply with lowa's narrative water quality standards found at 567 IAC 61.3(2):
- (2) Equipment used in waters of the state shall be cleaned of all hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, or other construction-related, potentially hazardous substances before arriving on site. Wash water shall not be discharged into a water of the state. This condition will ensure permittees comply with lowe's narrative water quality standards found at 567 IAC 61.3(2):
- (3) All cleared vegetative material shall be properly managed in such a manner that it cannot enter a water of the state and cause a violation of water quality requirements. This condition will ensure permittees comply with lowa's narrative water quality standards found at 567 IAC 61.3(2);
- All construction debris shall be properly managed in such a manner that it cannot enter a water of the state. This condition will ensure permittees comply with lowe's narrative water quality standards found at 567 IAC 61.3(2);
- Erosion shall be managed so that sediment is not discharged to a water of the state in a manner that causes a violation of water quality requirements. This condition will ensure permittees comply with lowe's narrative water quality standards found at 567 IAC 61.3(2):
- Riprap, treated lumber products, and temporary structures shall consist of clean material free of coatings of potentially hazardous substances. No asphalt or petroleum-based material shall be used as or included in material placed in any water of the state or within the high-water table. This condition will ensure permittees comply with lowa's narrative water quality standards found at 567 IAC 61.3(2); and
- (7) Stockpiled dredged materials on the shore shall be managed so that sediment is not discharged to a water of the state in a manner that causes a violation of water quality requirements. This condition will ensure permittees comply with lowers narrative water quality standards found at 567 IAC 61.3(2).

	GENERAL NOTES:
ITEM	DESCRIPTION
A.	The contractor shall notify the following two weeks prior to construction: 1. District Inspector: Michael Dufoe, P.E. (515)-985-9196
В.	The contractor shall verify actual locations and elevations with the D.N.R Inspector.
C.	All work shall conform to and be performed in accordance with all applicable codes and ordinances.
D.	The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specifications, special provisions and contract.
E.	The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the D.N.R Inspector of any discrepancies, omissions and/or conflicts prior to proceeding with the work.
F.	The contractor is responsible for disposal for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed, unless specifically stated in the plans or approved by the D.N.R Inspector.
G.	The contractor shall not disturb desirable grass areas and desirable trees outside construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the D.N.R Inspector.
Н.	The contractor is expected to have materials, equipment and labor available on a daily basis to install and maintain erosion control features on the project, if needed.
l.	The contractor shall be responsible for any damage to existing facilities resulting from their negligence, or that of a subcontractor, and said repairs shall be approved by the owner.
J.	All work shall be per lowa Statewide Urban Design and Specifications (SUDAS). Manuals can be viewed online at www.iowasudas.org.

OWA DEPARTMENT OF NATURAL RESOURCES



PARK STATE

WAPSIPINICON

NOTES

GENERAL

23-06-53-01 JANUARY 22, 2024

ESTIMATED PROJECT QUANTITIES

Item No	Description	Quantity	Unit
1	Mobilization	1	LS
2	Construction Survey	1	LS
3	Clearing and Grubbing	0.75	Ac
4	Large Boulders	900	EA
5	Revetment, Class B	540	Tons
6	Rock, 6" minus	270	Tons
7	Engineering Fabric	68	SY
8	Revetment, Class E	80	Tons
9	Site Restoration	1	LS

ESTIMATE REFERENCE NOTES

Bid Item	Note	
1	Mobilization - Paid per SUDAS Section 11020.	
2	Construction Survey - Paid per SUDAS Section 11010 and shall consist of	
	marking the station of each weir, setting the angle and providing an elevation	
	bench mark(s). Iowa DNR staff shall verify all locations prior to work and will	
	assist with determining	
	Clearing & Grubbing - Per SUDAS Section 2010. Trees in bank tie locations are	
3	to be downed prior to construction by others. This bid item is for minor brush	
	in areas for access, stump removal and tree trimming.	
	Large Boulders - Placing and sizing per detail Sheet 6 with the following	
	conditions:	
4	A. Per FEMA requirements, the boulders shall come from a licensed quarry or	
	a pre-approved site that has been cleared for archeological concerns.	
	B. Due to archeologi	
5	Revetment, Class B - To be used in bank tie-in locations. Respreading any dirt	
	excavated for tie-in shall be wasted around site.	
6	Rock, 6" Minus - Rock to be used as "choke stone" on weir. Can be 4-6" Erosion	
	Stone or other as approved by the Engineer.	
7	Engineering Fabric - Per SUDAS Section 2010. Includes reshaping the bank to a	
<u>'</u>	consistent slope (2:1 preferred) per detail Sheet 9.	
8	Revetment, Class E - To be used at Dutch Creek Bank Repair, Sheet 9.	
9	Site Restoration - Includes the following:	
	A. Removing all ruts or other disturbance caused by construction.	
	B. Seeding all disturbed areas with either lowa DOT Turf mix (mowed areas)	
	or Iowa DOT Rural Mix.	
	C. Mulching all seeded areas.	

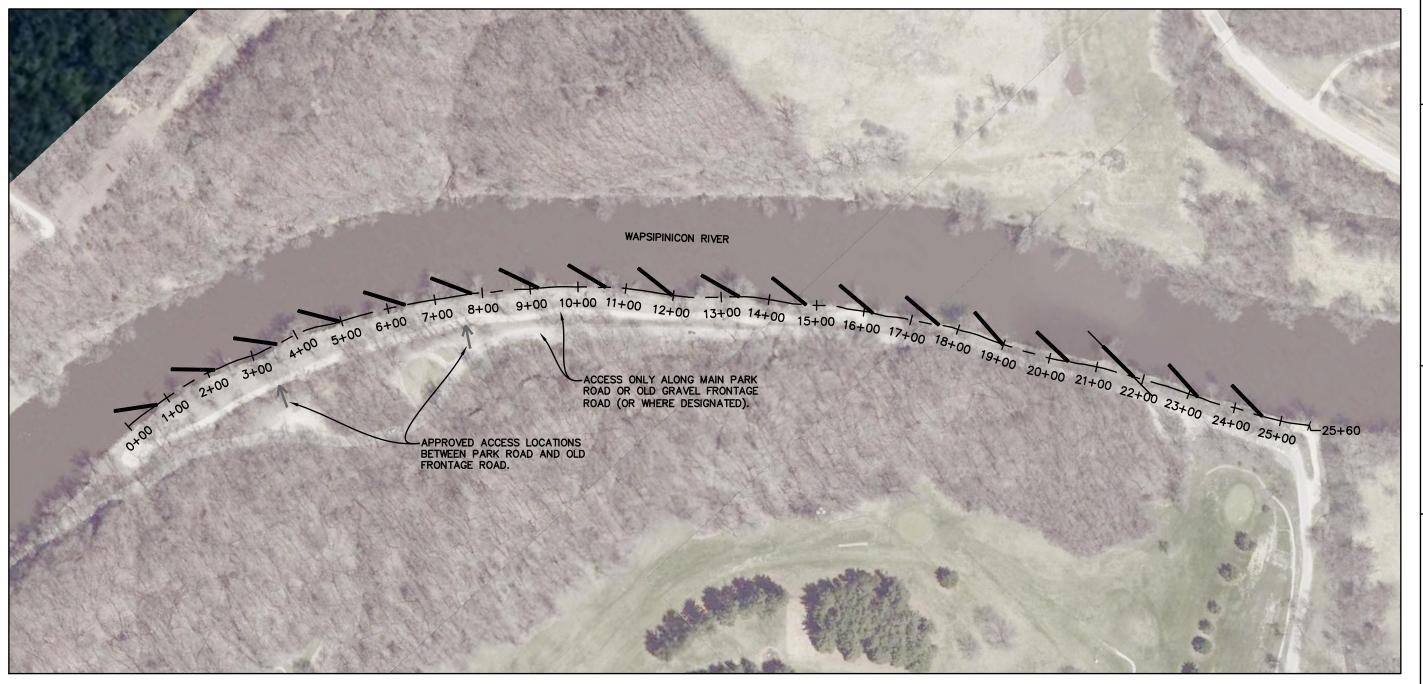
ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

IOWA DEPARTMENT OF NATURAL RESOURCES

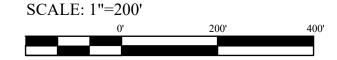


FEMA FLOOD REPAIRS FOR:
WAPSIPINICON STATE PARK ESTIMATED QUANTITIES AND REFERENCE NOTES

23-06-53-01 JANUARY 22, 2024



OVERALL STAGING AND ACCESS PLAN



NORTH

THE AREA BETWEEN THE MAIN ROAD AND THE RIVER HAS BEEN DETERMINED TO BE A HIGHLY SENSITIVE ARCHEOLOGICAL AREA. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING REQUIREMENTS:

- ACCESS ONLY ALLOWED ON THE MAIN PARK ROAD, THE OLD GRAVEL FRONTAGE ROAD, OR ON CRANE MATS. STAGING TO BE ONLY ON THE MAIN PARK ROAD, THE OLD GRAVEL FRONTAGE ROAD, OR GRAVEL PARKING AREAS. THE PARK ROAD IS TO BE CLOSED DURING CONSTRUCTION TO ALLOW CONTRACTOR USE.

 ACCESS BETWEEN PARK ROAD AND FRONTAGE ROAD TO BE DONE AT THE AREAS SHOWN ABOVE. TREES AND BRUSH MAY NEED TO BE CLEARED AND IS INCIDENTAL TO THE CONSTRUCTION.

 ANY TREES LARGER THAN 4 IN. DIA. TO BE DOWNED SHALL BE DONE BETWEEN OCTOBER 1ST AND APRIL 1ST. CRANE MATS TO BE USED BETWEEN THE FRONTAGE ROAD AND THE WEIR CONSTRUCTION.

- 6. CRANE MATS ARE THE CONTRACTOR'S EXPENSE AND INCIDENTAL TO THE BOULDER PLACEMENT.

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

PARK ST, WAPSIPINICON

OVERALL STAGING AND ACCESS PLAN

23-06-53-01 JANUARY 22, 2024

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ENGINEERING SERVICES - WALLACE BUILING 502 E, 9TH ST., DES MOINES, IA 50319-0034

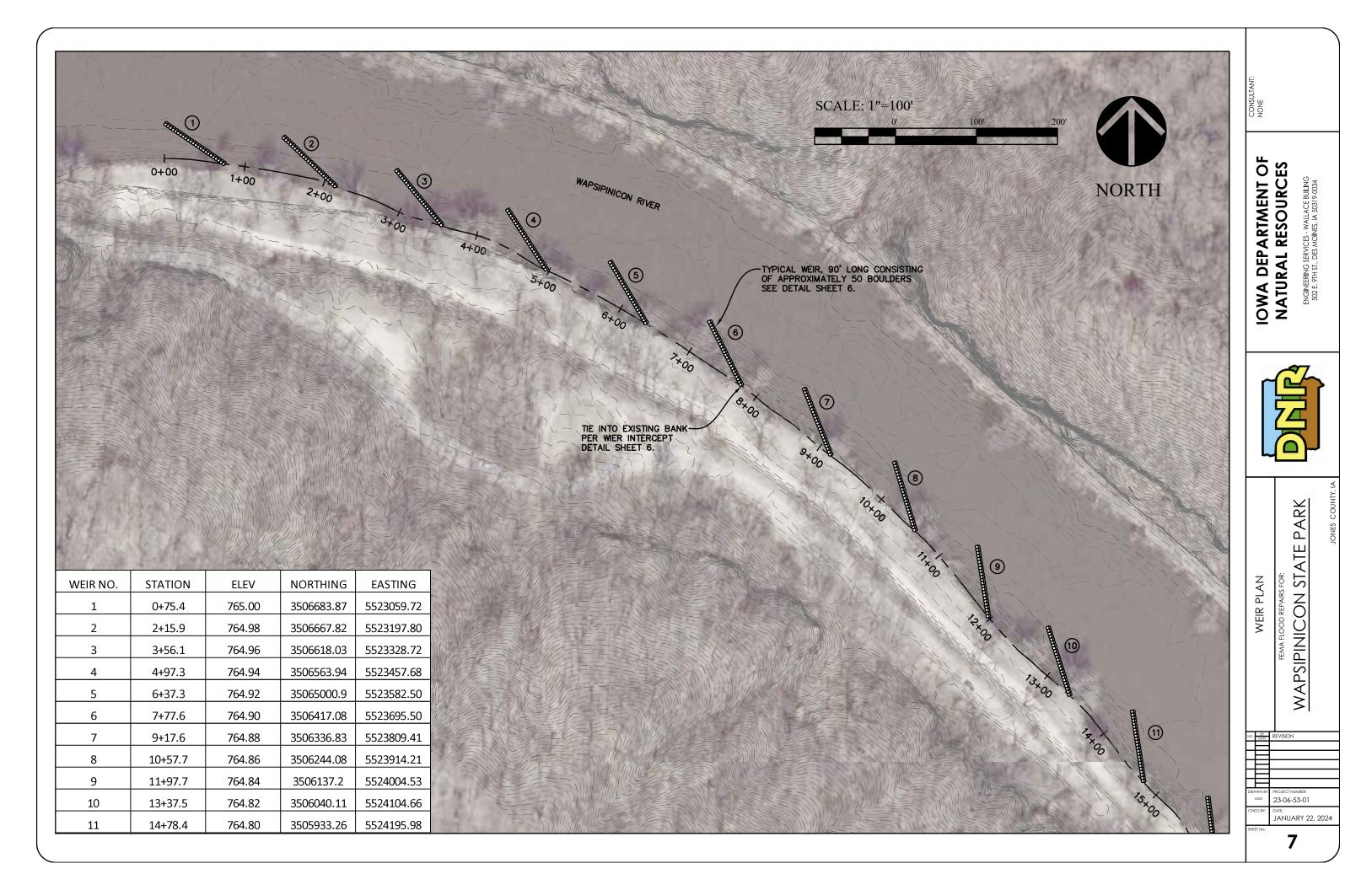


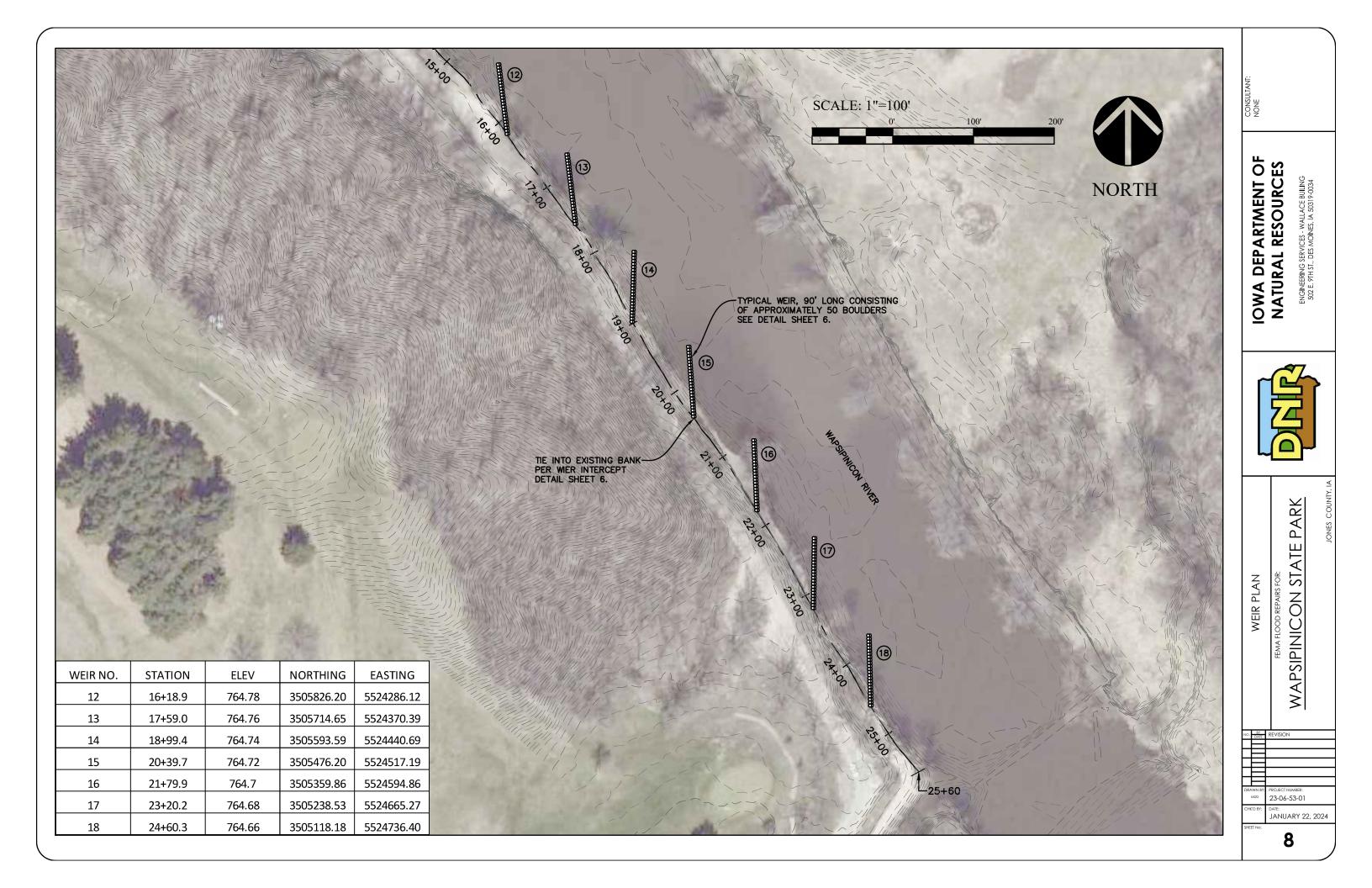
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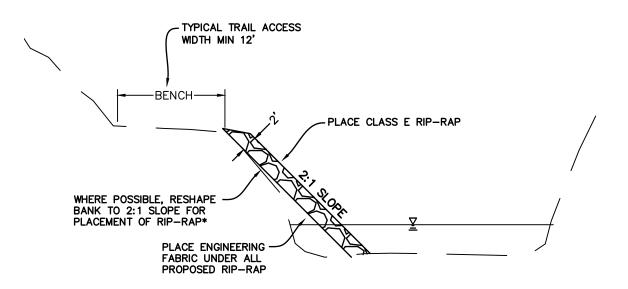
JANUARY 22, 2024







PICTURE OF STREAM BANK WASHOUT



* WHERE BANK SLOPE OF 2:1 IS NOT ACHIEVABLE, THE BANK SHALL BE SHAPED TO A CONSTANT SLOPE FOR PLACEMENT OF ENGINEERING FABRIC. ADDITIONAL RIP—RAP TO BE USED TO OBTAIN 2:1 SLOPE.

TYPICAL STREAM BANK REPAIR SECTION

CONSULTAI

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

CON STATE PARK

DUTCH CREEK BANK REPAIR
FEMA FLOOD REPAIRS FOR:
WAPSIPINICON STATE P.

REVISION

REVISION

RAWN BY: PROJECT NUMBER:
23-06-53-01

HKD BY: DATE:
JANUARY 22, 2024

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