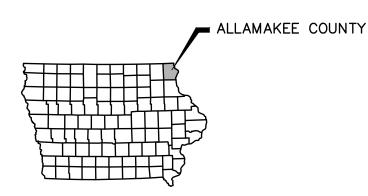
# IOWA DEPARTMENT OF NATURAL RESOURCES

# PRELIMINARY CONSTRUCTION DOCUMENTS **FOR** YELLOW RIVER STATE FOREST PAINT CREEK STREAMBANK IMPROVEMENTS ALLAMAKEE COUNTY, IOWA

PROJECT #24-03-03-01





DIRECTORY				
PROJECT MANAGER		CONSTRUCTION INSPECTOR		
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	
ADDRESS	502 EAST 9TH STREET	ADDRESS	502 E 9TH STREET	
CITY,STATE,ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	DES MOINES, IA 50319	
CONTACT	MICHAEL DUFOE	CONTACT	KEN HOWE P.E.	
TELEPHONE	515-985-9196	TELEPHONE	319-240-3553	
FAX		FAX		
EMAIL	michael.dufoe@dnr.iowa.gov	EMAIL	KENNETH.HOWE@DNR.IOWA.GOV	

#### PROJECT DESCRIPTION

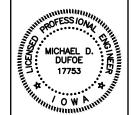
THIS PROJECT SHALL RESHAPE APPROXIMATELY 1.502 LF OF STREAMBANK AND PLACE 2,800 TONS OF LONGITUDINAL PEAK STONE TOE PROTECTION ALONG WITH 640 TONS OF ROCK WEIRS ALONG PAINT CREEK WITHIN YELLOW FOREST STATE PARK, ALLAMAKEE COUNTY, IOWA.

AUTHOR ZATIO

CONSTRUCTION PER IOWA DOT SPECIFICATIONS.



AUTHORIZATION TO BID	THE TOP IS NOT THE TANK THE TA
ION - PARKS   WILDLIFE   FISHERIES   LAW ENFORCEMENT   FORESTRY DATE	MICHAEL D. DUFOE 17753



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

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

SHEET INDEX

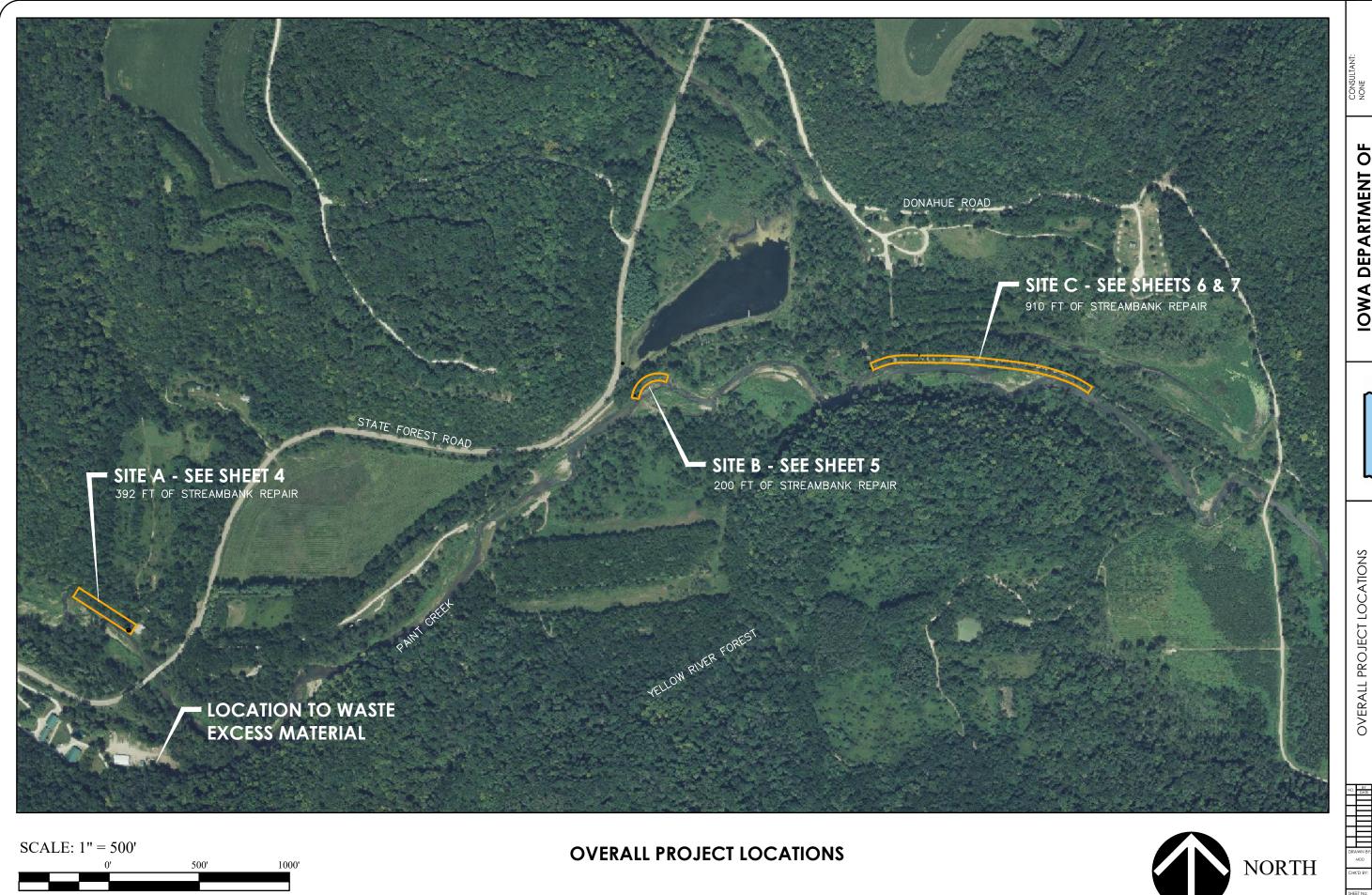
OVER SHEET

IOWA DEPARTMENT OF NATURAL RESOURCES



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24-03-03-01 APRIL 22, 2024



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

IOWA DEPARTMENT OF NATURAL RESOURCES



YELLOW RIVER STATE

24-03-03-01 APRIL 22, 2024

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#### ESTIMATED PROJECT QUANTITIES NOTES:

- 1. Mobilization Payment per lowa DOT Specifications.
- Clearing and Grubbing Per the Sovereign Lands Permit requirements, all larger trees should have been felled by others. This bid item includes removing and hauling the remaining tree debris to piles within the Yellow River State Forest. All stumps within the area between the trail and stream bank shall be removed and hauled offsite.
- 3. Bank Shaping This bid items is for shaping/grading the slopes between the Longitudinal Toe Stone Protection and the trail (or where a 4:1 slope ties in). Includes removing approximately 725 CY of excess material from Site A and either placing it as needed at the other sites, placing it behind the garage of the State Headquarters Office (as shown on Sheet 2) or disposing offsite.
- Wattles, 9" Wattles shall be Curlex SFW Wattles (or any approved Wildlife Friendly equivilants), 9" dia. manufactured by American Excelsior Company. Installation per manufacturer recommendations.
- Revetment, Class E Includes placing the Longitudinal Toe Stone Protection including excavating toe—ins as shown on Sheet 4. Stone shall meet lowa DOT Section 4130. Quantity includes an additional 20% for placement in areas that may need additional stone or as directed by the Field Engineer.
- Revetment, Class B Includes placing the stone weirs as shown on Sheet 6. Stone shall meet lowa DOT Section 4130.
- 7. Slope Protection Matting Matting shall be Type 2 Rolled Erosion Control (RECP) to be placed on slopes 3:1 or steeper or as directed by the Field Engineer, Material shall be coconut "Geocoir 700" or approved eaual. Installation per lowa DOT Section 9040.
- Seeding and Mulching Includes leveling slopes and preparing topsoil for seeding and mulching. Seed mix to be provided by lowa DNR. Contractor to be responsible for spreading and mulching.

#### **GENERAL NOTES:**

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites 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 within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable trees outside the 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 DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

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. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

DNR to provide construction staking with a minimum 2-week notice. Though this work is more in-field "as directed". The Contractor shall construct the Longitudinal Toe Stone Protection, bank tie-ins and stone weirs roughly per the details shown, with locations and elevations as directed by the Fisheries Biologist and Field Engineer. Contractor shall be responsible to have a laser level on site for checking and maintaining consistent elevations at each project site.

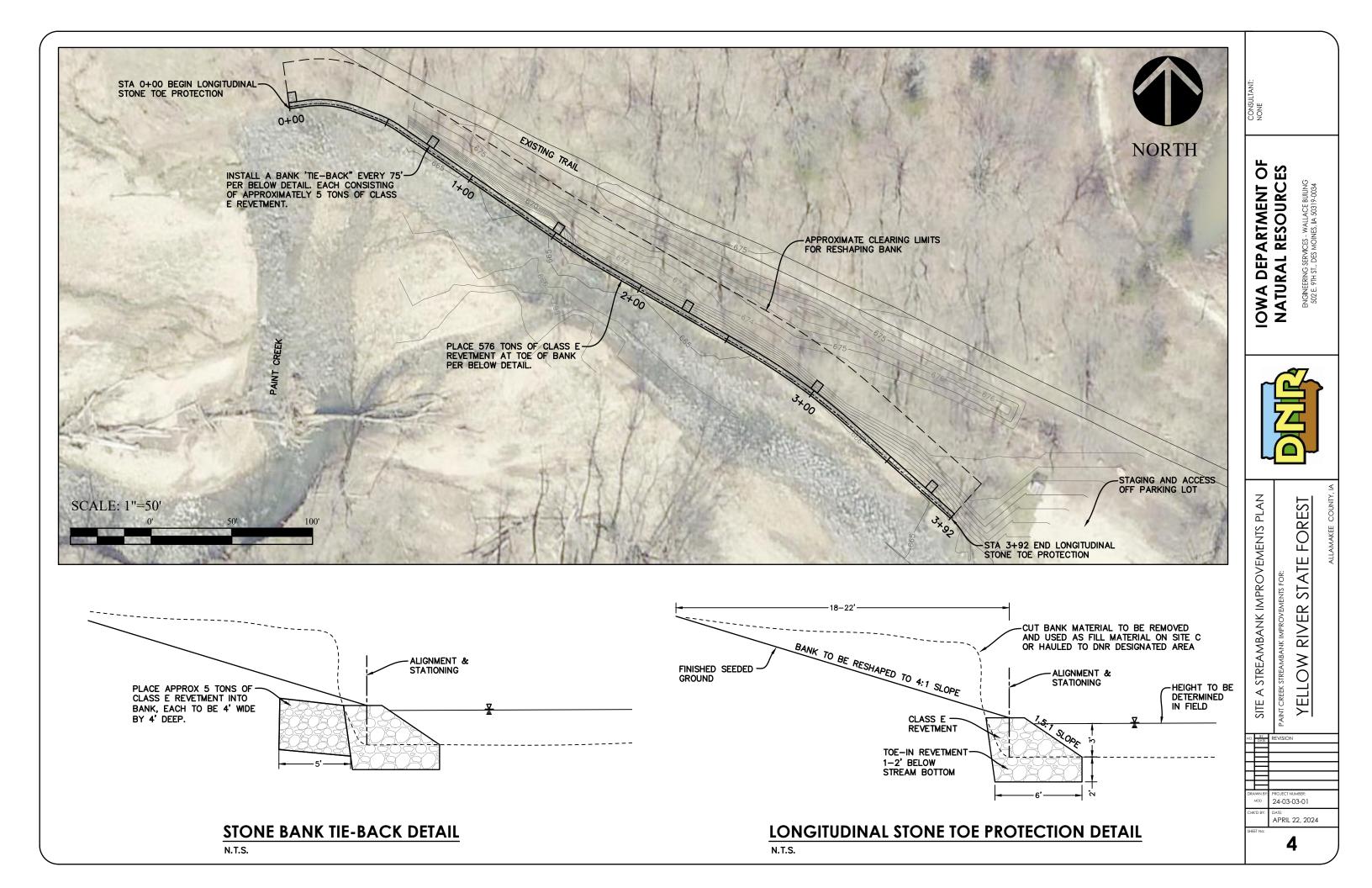
Contractor responsible for repairing any damage to the existing trail as a result of the construction activities and restoring it to the pre-construction condition.

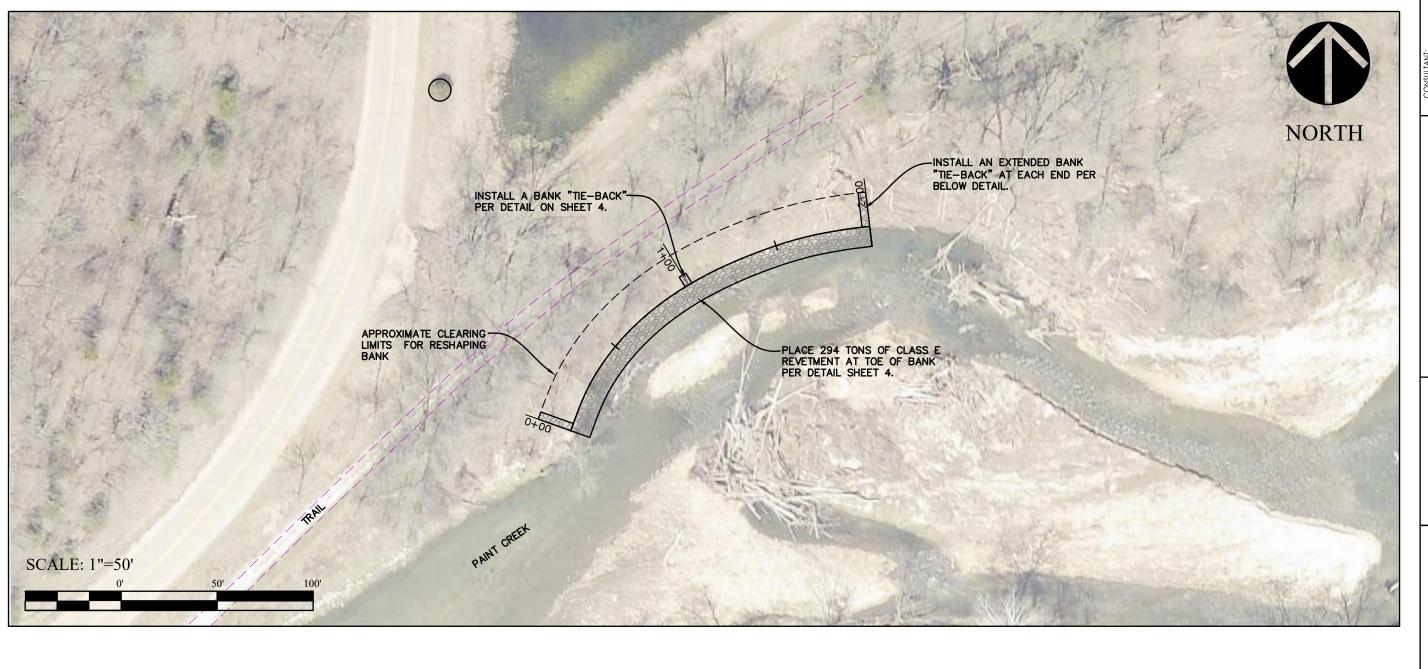
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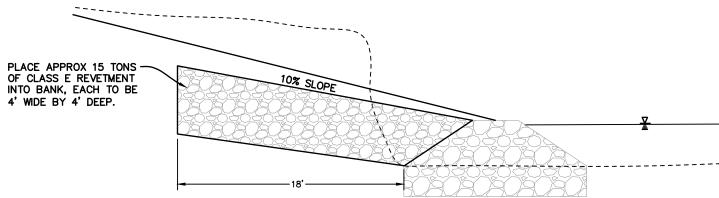
Ш STATE RIVER

ESTIMATED QUANTITIES AND GENERAL NOTES 'ELLOW |

24-03-03-01 APRIL 22, 2024







## **EXTENDED STONE BANK TIE-BACK DETAIL**

N.T.S.

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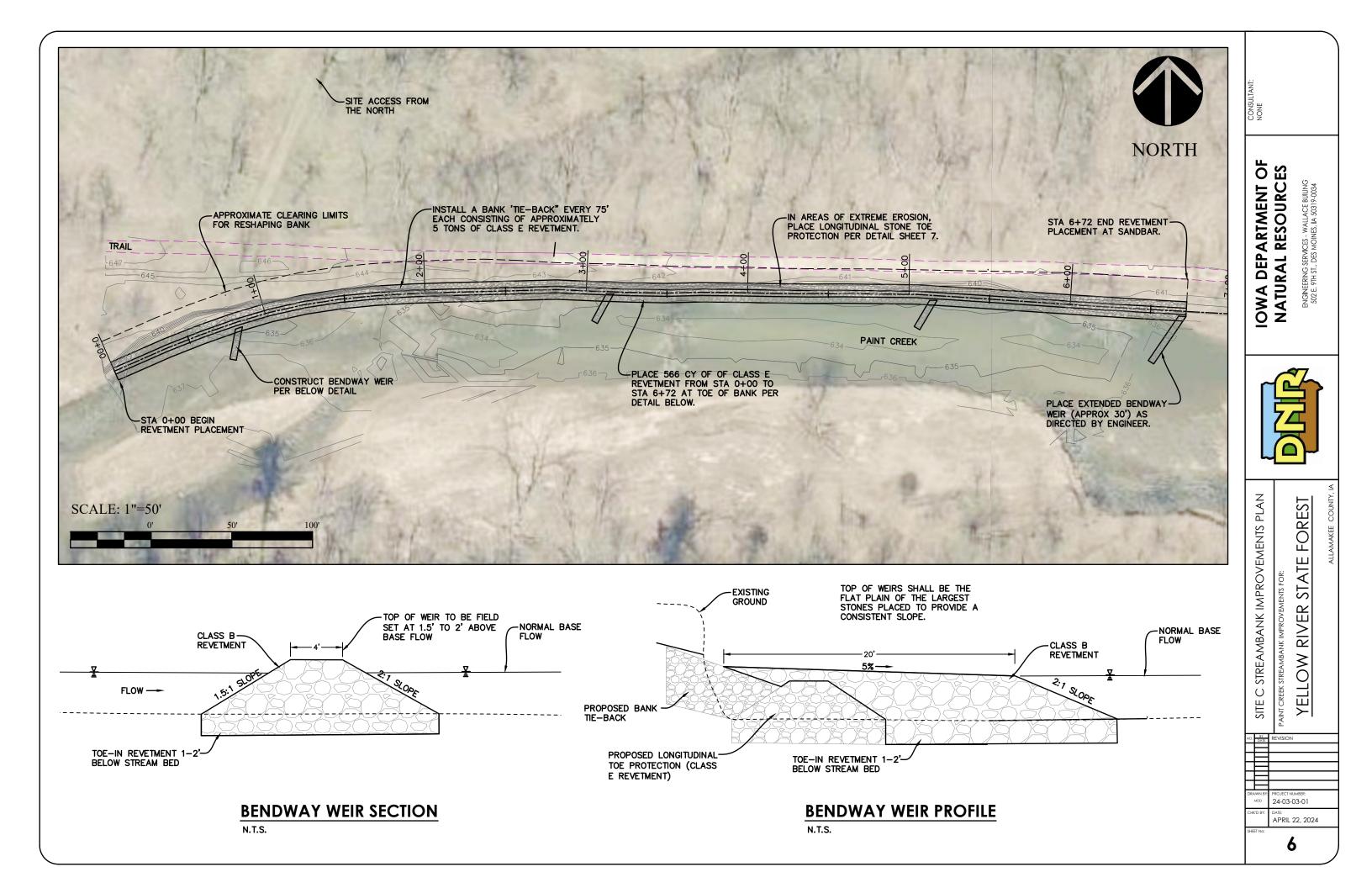


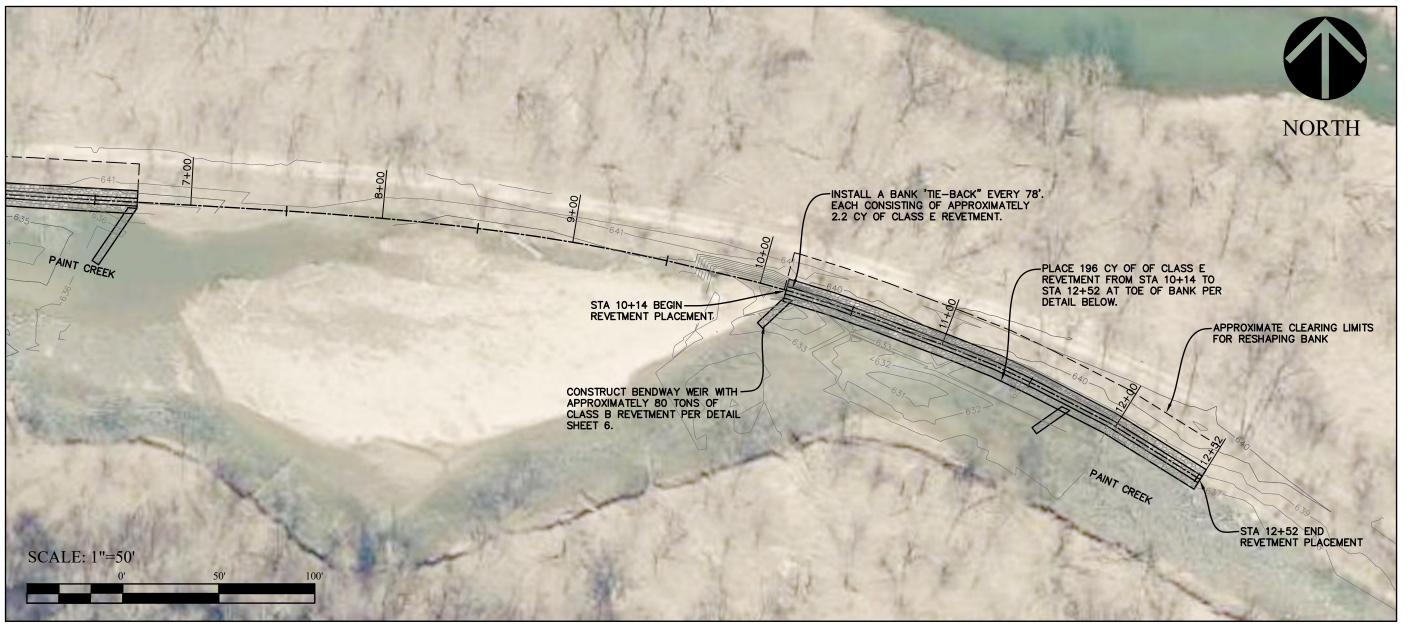
STATE RIVER

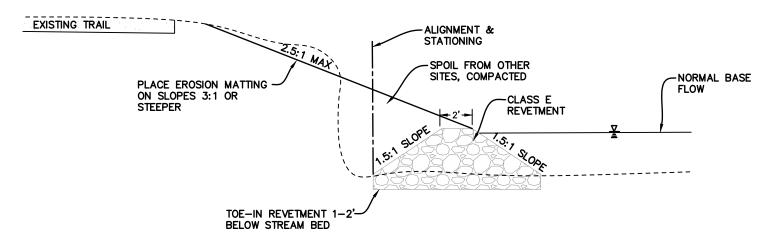
SITE B STREAMBANK IMPROVEMENTS PLAN YELLOW

24-03-03-01

APRIL 22, 2024







### LONGITUDINAL STONE TOE PROTECTION DETAIL - STEEP

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SITE C STREAMBANK IMPROVEMENTS PLAN STATI RIVER YELLOW

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