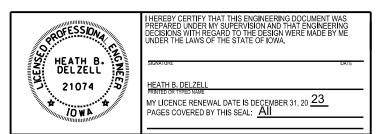
# IOWA DEPARTMENT OF NATURAL RESOURCES

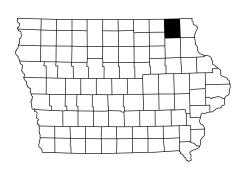
# FOR COON CREEK WMA STREAMBANK STABILIZATION

# WINNESHIEK COUNTY, IOWA

PROJECT # 19-03-96-04



DIRECTORY			
PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	
CITY,STATE,ZIP	DES MOINES, IA, 50319	CITY,STATE,ZIP	
CONTACT	HEATH DELZELL	CONTACT	MELVIN PACOVSKY
TELEPHONE	515-979-0104	TELEPHONE	319-240-3553
FAX	515-281-8685	FAX	
EMAIL	heath.delzel@dnr.iowa.gov	EMAIL	melvin.pacovsky@dnr.iowa.gov



PROJECT DESCRIPTION	
THIS PROJECT CONSISTS OF PLACING STREAMBANK EROSION PROTECTION.	

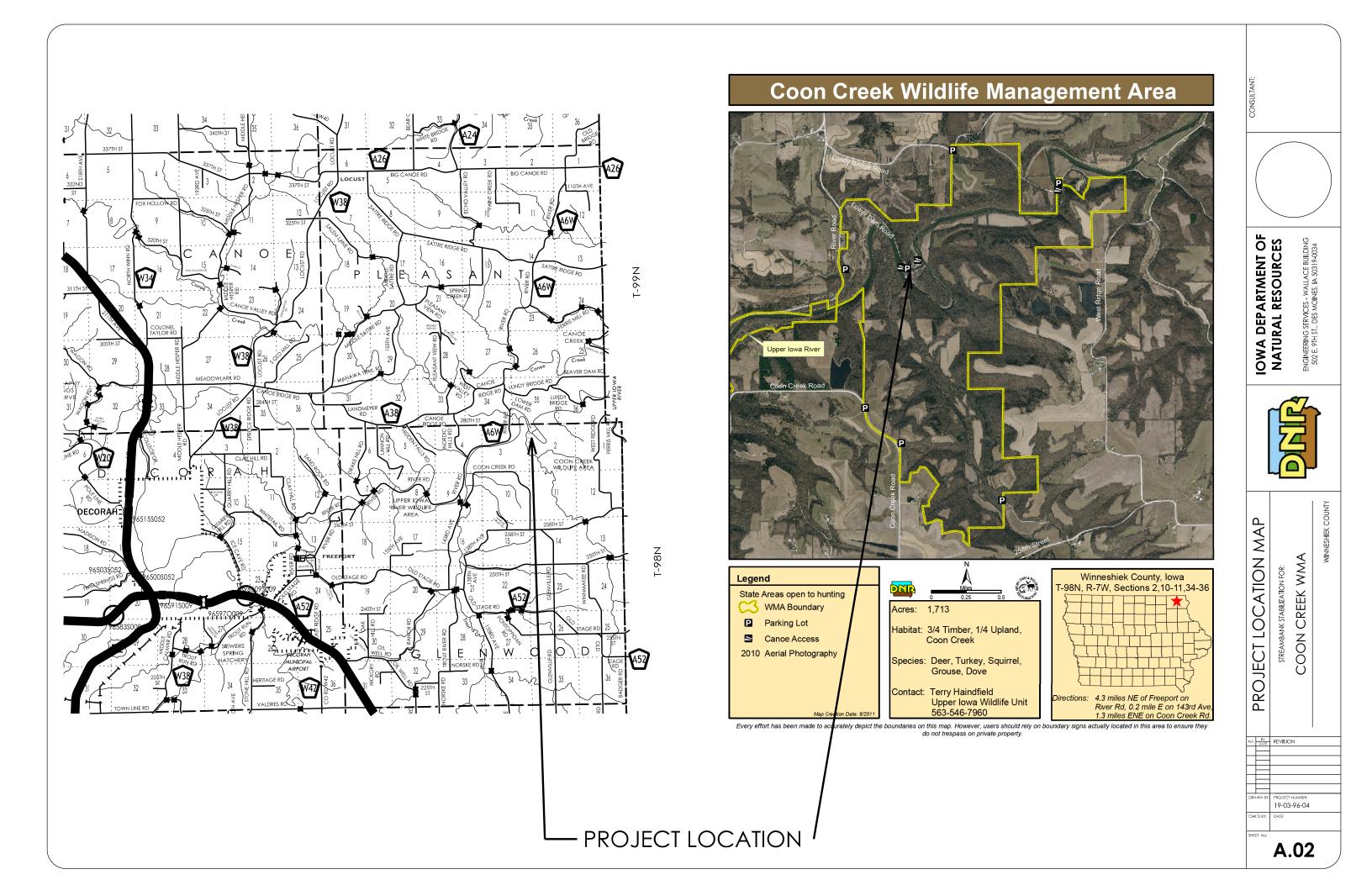


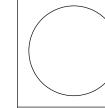
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ENGINEERING BUREAU CHIEF	DATE

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SHEET INDEX





IOWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILDING 502 E. 9TH ST., DES MOINES, IA 50319-0034



STREAMBANK STABILIZATION FOR:
COON CREEK WMA

TYPICAL CROSS SECTIONS AND DETAILS NO. BY REVISION 19-03-96-04

**B.01** 

## **ESTIMATED PROJECT QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL
1	Mobilization	Lump Sum	1
2	Class E Revetment	Tons	521
3	Class B Revetment Mod.	Tons	1,043
4	Flexamat	SF	5,295
5	Excavation	CY	588
6	Seeding	Lump Sum	1

	ESTIMATE REFERENCE INFORMATION	
ITEM NO.	DESCRIPTION	
3.	A. Material shall consist of large boulders that meet the Revetment, Class B specification, modified such that at least 20% of the material weighs between 1,000 pounds and 2,000 pounds.	
4.	A. As manufactured by Mortz Enterprises, Inc. of Cincinnati, OH or approved equal.  B. Anchoring system shall follow manufacturer's instructions, incidental to this line item.	
5.	A. Excess material shall be wasted on site as directed by the Engineer.	
6.	A. Seeding shall consist of Native Grass Seeding under the Flexamat, and Rural Stabilizing Crop over all other disturbed areas.  B. Fertilizing and mulching for Rural Stabilizing Crop seeding shall be incidental to this line item.	

### **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.

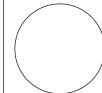
It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. 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.



IOWA DEPARTMENT OF NATURAL RESOURCES



OON CREEK WMA

Quantities and General Information

NO. BY REVISION 19-03-96-04

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