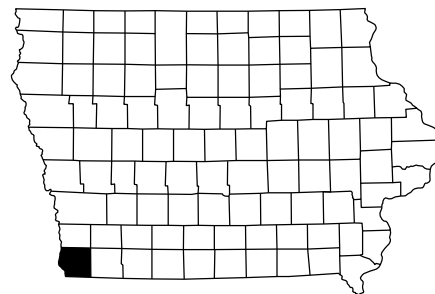



FREMONT COUNTY, IOWA

PROJECT # 23-04-36-02



	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.	
	Heath Delzell	<small>Digitally signed by Heath Delzell Date: 2023.12.19 14:09:08 -06'00'</small>
	<small>SIGNATURE</small>	<small>DATE</small>
	<hr/>	
	HEATH B. DELZELL <small>PRINTED OR TYPED NAME</small>	
	MY LICENCE RENEWAL DATE IS DECEMBER 31, 20 <u>23</u>	
	PAGES COVERED BY THIS SEAL: <u>all</u>	

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	MARK JOHNSON
TELEPHONE	515-979-0104	TELEPHONE	515-250-3713
FAX	515-281-8686	FAX	
EMAIL	heath.delzell@dnr.iowa.gov	EMAIL	mark.johnson@dnr.iowa.gov

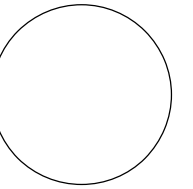
PROJECT DESCRIPTION

This project consists of installing a stormwater conveyance system at the campground.

<h2 style="margin: 0;">AUTHORIZATION TO BID</h2>	
AUTHORIZATION - PARKS WILDLIFE FISHERIES LAW ENFORCEMENT FORESTRY DATE	
ENGINEERING BUREAU CHIEF	DATE

[illegible]

CONSULTANT:

IOWA DEPARTMENT OF
NATURAL RESOURCES

502 E. 9TH ST., DES MOINES, IA 50319-0034



COVER SHEET

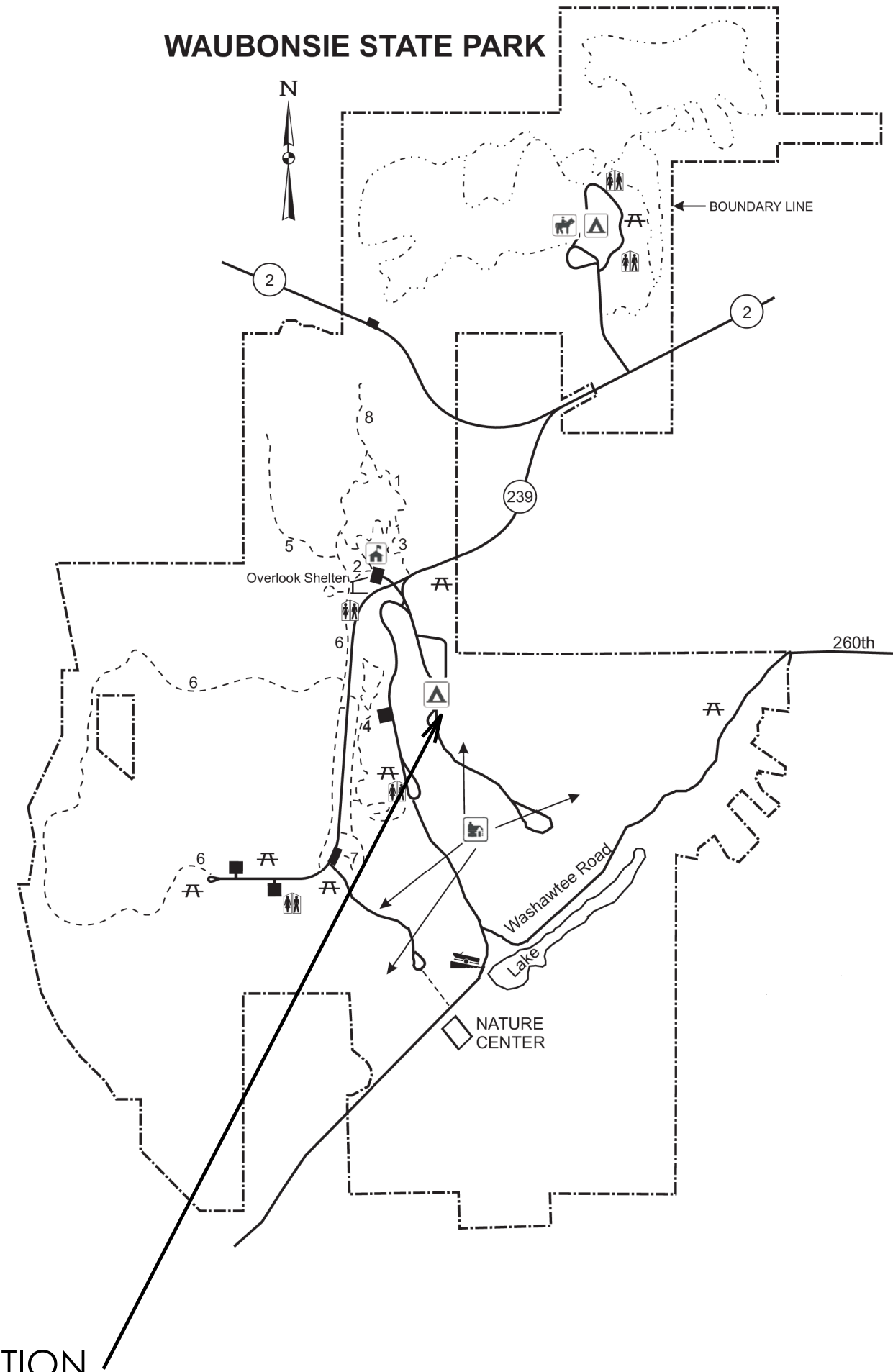
STORM SEWER FOR:

WAUBONNIE STATE PARK

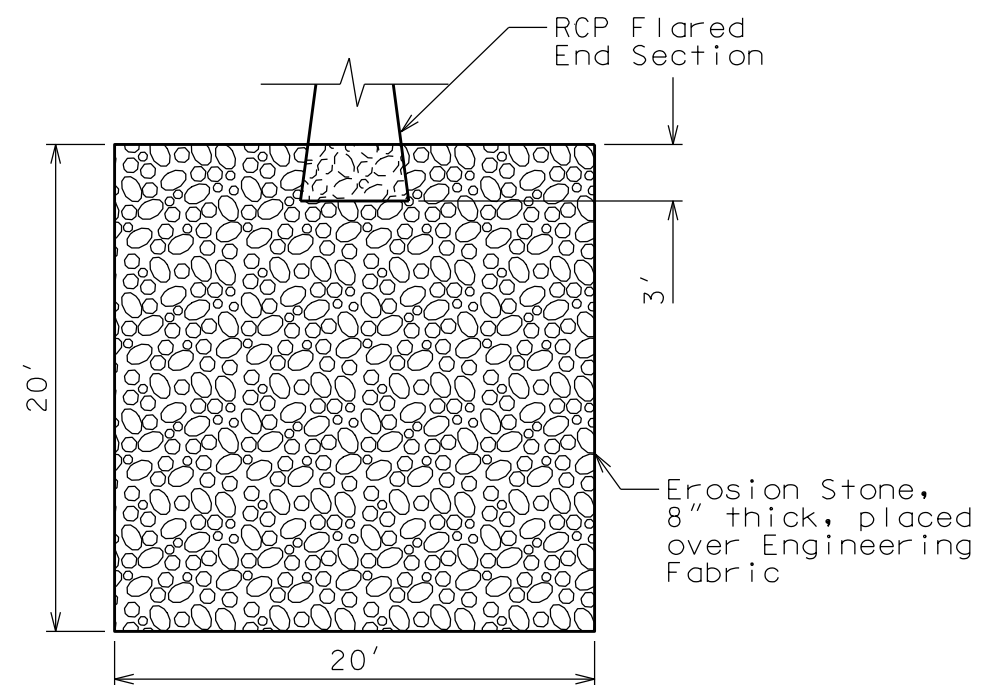
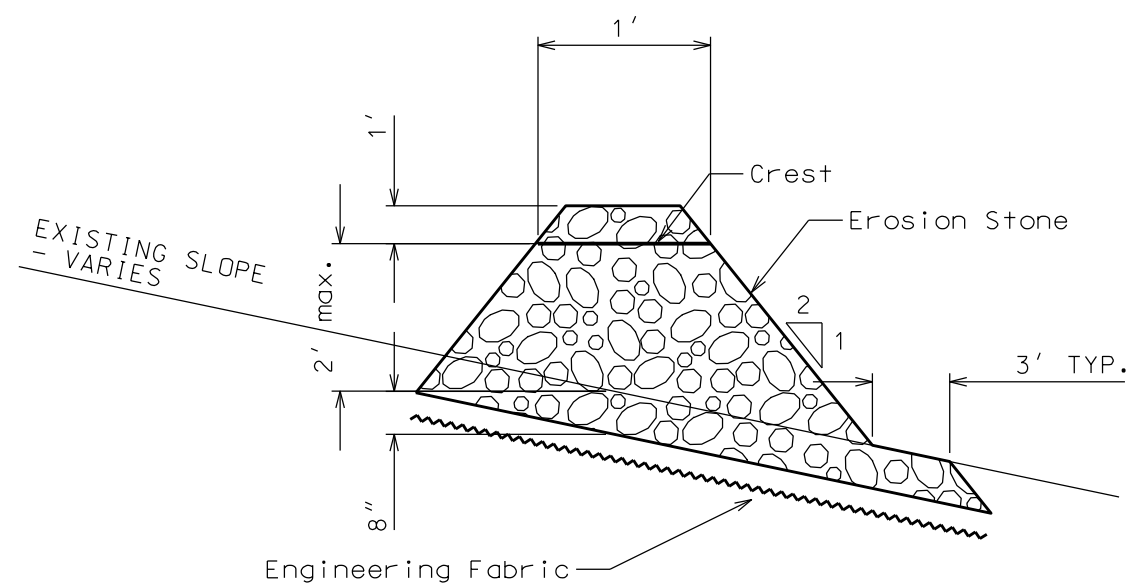
REMOVING COBALT

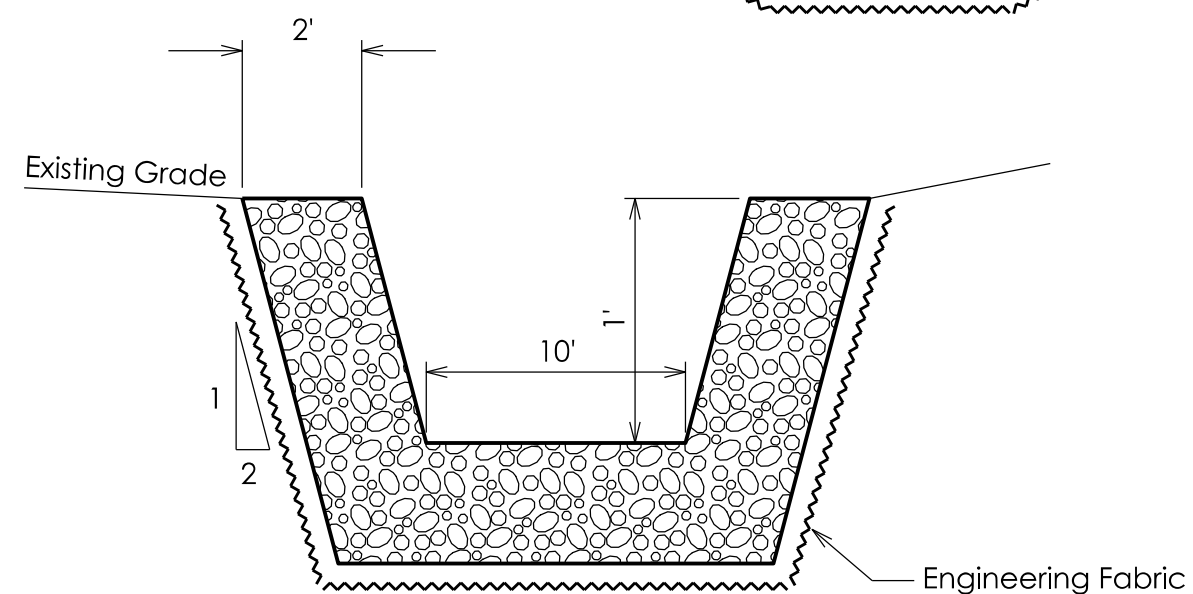
NO.	BY DATE	REVISION
DRAWN BY:		PROJECT NUMBER: 23-04-36-02
CHK'D BY:		DATE:
SHEET NO.		

A.01



A.02





ROCK CHUTE DETAIL

NOT TO SCALE

B.02

[illegible]

ESTIMATE REFERENCE INFORMATION	
ITEM NO.	DESCRIPTION
2	A. Control points and an electronic design file will be provided to the contractor.
3	A. Site restoration consists of seed bed preparation, seeding, fertilizing, and mulching of all disturbed areas. B. Seed mix shall be Iowa DOT Permanent Rural.
4.	A. Contractor need only to clear trees necessary for construction. Root balls do not need to be removed if they are not in the way of construction. B. All trees larger than 4" diameter shall be removed or dropped by April 1. Other clearing activities may occur at any time. C. Woody debris may be burned and buried immediately upstream of the Rock Pad.
5.	A. Manholes shall follow Iowa DOT Standard Road Plan SW-401. B. Manhole 1 shall have a Type 5 Area Intake grate, following SW-604. C. Manholes 2-6 shall have Type G or E manhole cover, following SW-602.
6.	A. Pipe shall be Class III
7.	A. Pipe shall be Class III
11.	A. Fabric shall meet the requirements of Iowa DOT Section 4196.01.8.3 Embankment Erosion Control.

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.



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



STORM SEWER FOR:

FREMONT COUNTY

NO.	BY	REVISION
	DATE	
DRAWN BY:		PROJECT NUMBER: 23-04-36-02
CHK'D BY:		DATE:
SHEET No:		

C.01

