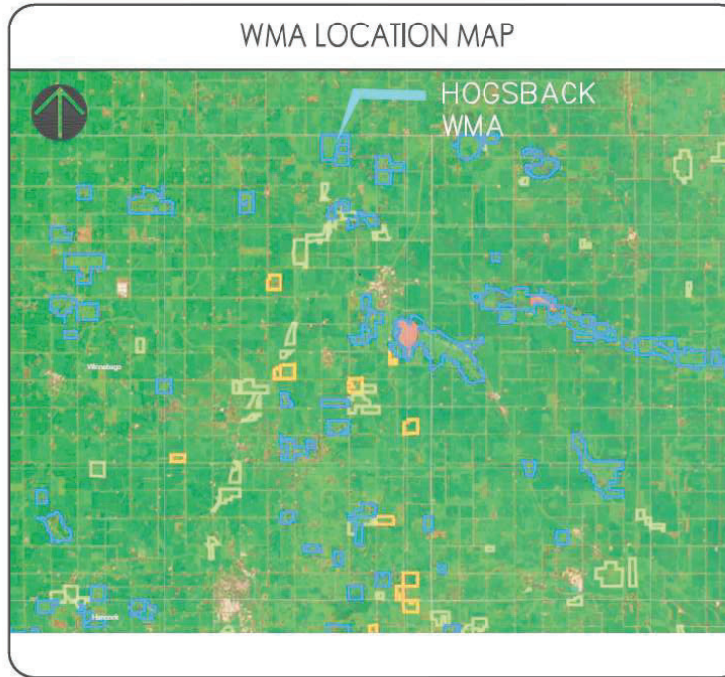
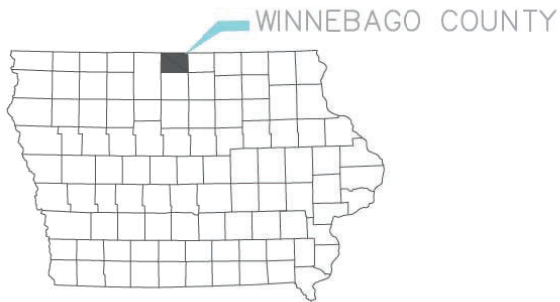


HOGSBACK WMA - WETLAND RESTORATION WINNEBAGO COUNTY, IOWA T100N, R23W, SEC. 9

PROJECT #25-02-95-01



DIRECTORY			
PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	3120 330TH AVE	ADDRESS	6200 PARK AVE, SUITE 200
CITY, STATE, ZIP	RUTHVEN, IA 51358	CITY, STATE, ZIP	DES MOINES, IA 50321
CONTACT	TJ HERRICK	CONTACT	HEATH DELZELL, P.E.
TELEPHONE	515-250-3715	TELEPHONE	515-979-0104
FAX		FAX	
EMAIL	tj.herrick@dnr.iowa.gov	EMAIL	heath.delzell@dnr.iowa.gov

PROJECT DESCRIPTION

This project includes constructing two dikes, shallow water excavation, installation of tile intakes, a tile outlet /w rodent guard, and the installation of dual-wall non-perforated tile. Construction per Iowa Statewide Urban Design and Specifications (SUDAS).

AUTHORIZATION TO BID

AUTHORIZATION - WILDLIFE	DATE
ENGINEERING BUREAU CHIEF	DATE

[illegible]

CONSULTANT:
NONE

IOWA DEPARTMENT OF
NATURAL RESOURCES

COVER SHEET

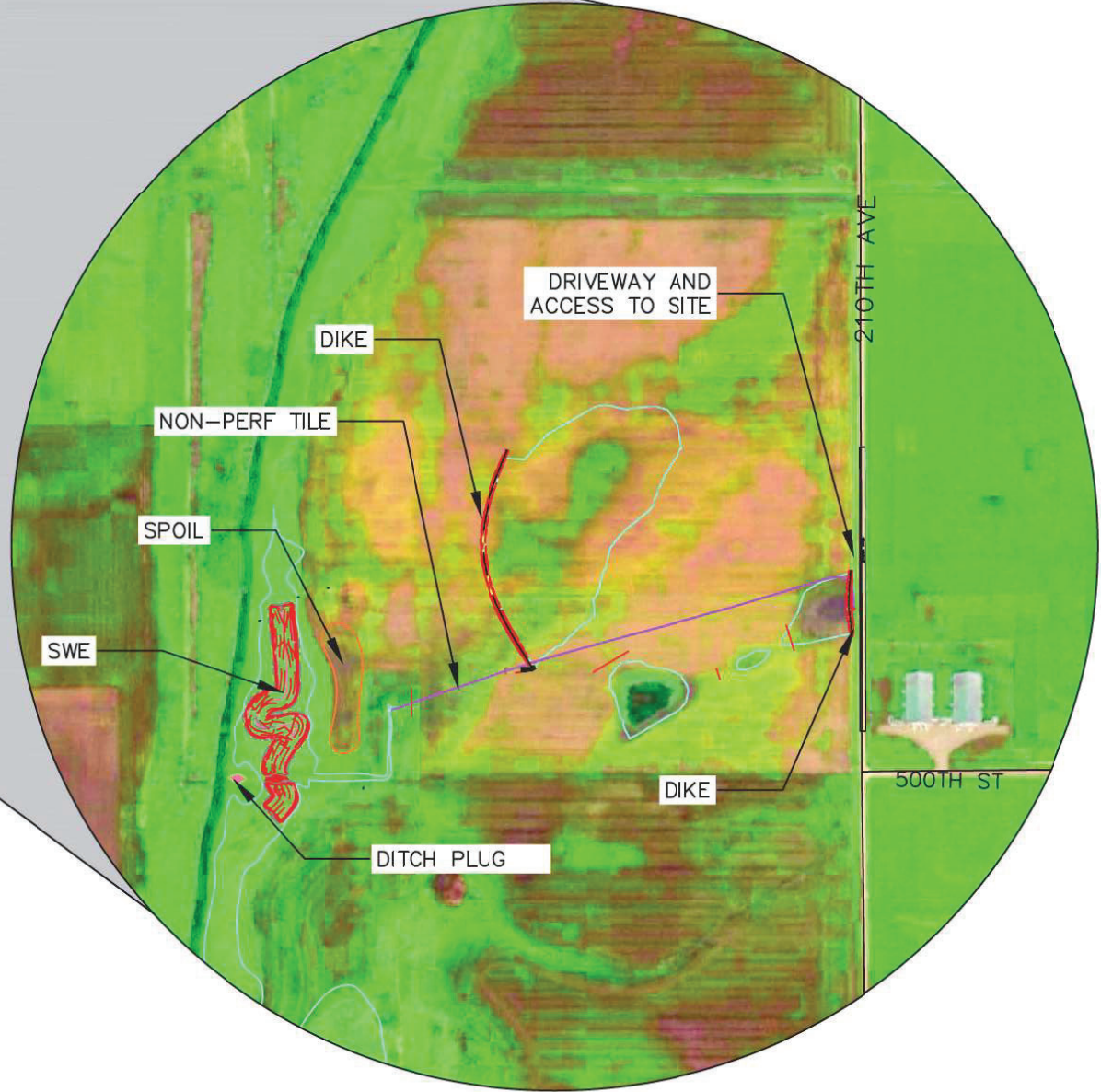
PROJECT DESCRIPTION FOR:
**HOGSBACK WMA -
WETLAND RESTO**

WINNEBAGO COUNTY

NO.	BY	REVISION
1	DATE	FINAL
DRAWN BY:	PROJECT NUMBER:	
TJH	25-02-95-01	
CHECK'D BY:	DATE:	
**	SEP ^T EMBER 22, 2025	

A.01

HOGSBACK WMA LOCATION DETAIL MAP



NORTH

NOT TO SCALE

CONSULTANT:
NONE

**IOWA DEPARTMENT OF
NATURAL RESOURCES**

502 E. 9TH ST., DES MOINES, IA 50321-0034



LOCATION DETAIL

PROJECT DESCRIPTION FOR:
**HOGSBACK WMA -
WETLAND RESTO**

WINNEBAGO COUNTY

NO.	BY DATE	REVISION
1		FINAL
DRAWN BY:	PROJECT NUMBER:	
TH	25-02-95-01	
CHICK BY:	DATE:	
"	SEPTEMBER 22, 2025	
SHEET No:		

A.02

Diagram illustrating a cross-section of a ditch or channel. The existing ground is shown as a sloped line on the left, labeled "EXISTING GROUND". The ditch is formed by two sloped walls meeting at a bottom. The depth of the ditch is indicated as 5.0'. The width of the ditch at the top is indicated as 0.5'. The area on the right side of the ditch is labeled "STRIPPING".

Diagram illustrating the cross-section of a ditch plug. The plug has a top width of 20.0' and a height of 0.5'. The slopes are indicated as 5 TO 1. The top surface is labeled "TOP OF DITCH PLUG ELEV. 1234.5'". The bottom surface is labeled "STRIPPING". The total width of the ditch at the base is 5.0'.

A topographic map of the study area. The map features a network of dashed brown contour lines. A prominent blue line, likely a stream or ditch, flows from the upper left towards the center. A red line, representing the proposed tile outlet, starts from the upper right and flows towards the center, where it meets the blue line. A small red cross symbol marks the 'TILE OUTLET SEE DETAIL 1/B.04'. A green cross symbol marks the 'DITCH PLUG'. A scale bar at the bottom indicates distances of 0, 300, and 600 feet. A north arrow is located in the upper left corner.

6200 PARK AVE, DES MOINES, IA 50321

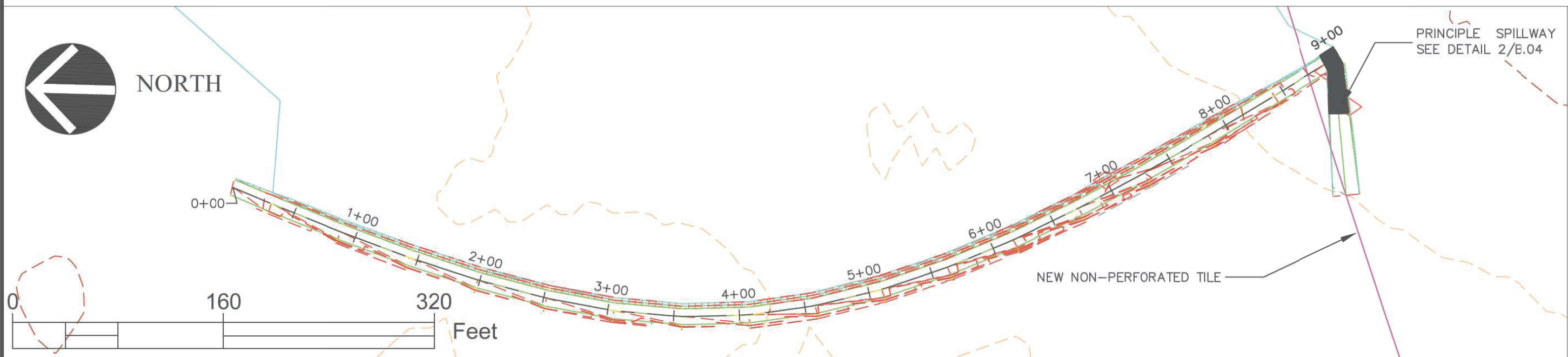
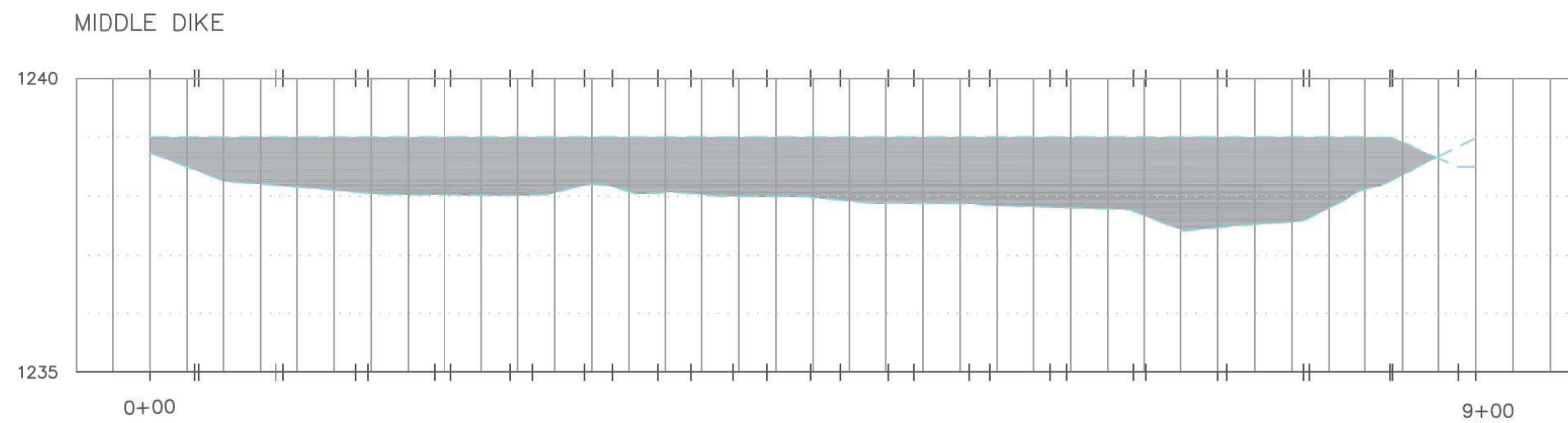


WINNEBAGO COUNTY

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"	SEPTEMBER 22, 2025	
SHEET No:		

B.01

Diagram illustrating the cross-section of a dike. The dike has a top width of 12.0' and a height of 0.5'. The slope is 4 to 1. The top of the dike is at elevation 1239.0'. The diagram also shows a 'STRIPPING' area on the right side.



MIDDLE DIKE PLAN & PROFILE

CONSULTANT:
NONE

**IOWA DEPARTMENT OF
NATURAL RESOURCES**

6200 PARK AVE, DES MOINES, IA 50321



MIDDLE DIKE PLAN & PROFILE

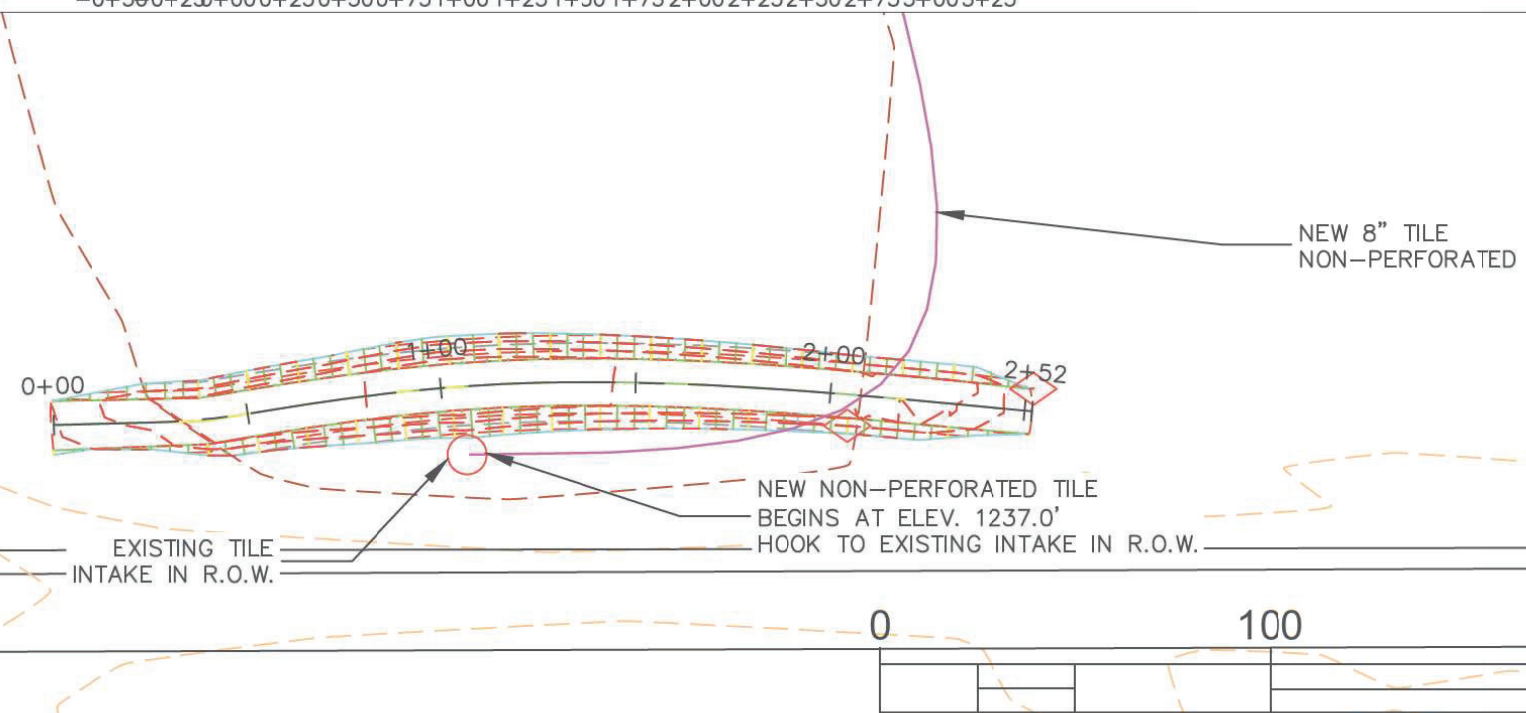
PROJECT DESCRIPTION FOR:
**HOGSBACK WMA -
WETLAND RESTO-**

WINNEBAGO COUNTY

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DRAWN BY: T.J.H.		PROJECT NUMBER: 25-02-95-01
CHECK BY:		DATE: SEPTEMBER 22, 2025
SHEET No:		

B.02

Diagram illustrating the cross-section of a dike. The dike has a top width of 12.0' and a top elevation of 1241.0'. The slopes are 4 to 1 on both sides. The base of the dike is labeled "STRIPPING". The height of the dike is indicated as 9.5'.

[illegible]

CONSULTANT:
NONE

**IOWA DEPARTMENT OF
NATURAL RESOURCES**

6200 PARK AVE, DES MOINES, IA 50321



ROAD DIKE PLAN & PROFILE

PROJECT DESCRIPTION FOR:
**HOGSBACK WMA -
WETLAND RESTO**

WINNEBAGO COUNTY

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"	SEPTEMBER 22, 2025	
SHEET No:		

B.03

①



TILE OUTLE ELEV.
1234.25'

WETLAND FSL
ELEV. 1234.0'

EXISTING DITCH BOTTOM

②



0.5'

20'



60.

20'

DETAILS

**IOWA DEPARTMENT OF
NATURAL RESOURCES**

WINNEBAGO COUNTY



PROJECT DETAILS

PROJECT DESCRIPTION FOR:
**HOGBACK WMA -
WETLAND RESTO**

NO.	BY DATE	REVISION
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CHKD BY: "	DATE: SEPTEMBER 22, 2025	
SHEET No:		

B.05

ESTIMATED PROJECT QUANTITIES

	Description	Quantity	Unit
1	Mobilization	1	LS
2	Class 10 Excavation, On-site borrow	1150	CY
3	Tile Investigation	1500	FT
4	Class 10 Excavation, Shallow water & Principle Spillway	3300	CY
5	Tile Breaks	5	EA
6	10" CMP, 14 guage (with 10" Rodent Guard)	10	FT
7	8" Non Perf dual wall tile and couplers (connect to exsiting tile intake in road ditch)	1940	FT
8	9" Straw Wattles	100	FT
9	1" Clean Stone	25	TN

ITEM No.	ESTIMATE REFERENCE INFORMATION
1	Access from 210th Ave. DNR Engineer to provide the field location of the start and stop of the dike work and will set an elevation hub
2	6" of topsoil shall be stripped from beneath the embankment footprint and stockpiled. Barrow material for embankment shall be taken from the wetland pool area. Must stay >30' away from embankment footprint to source material. Suitable material shall be compacted in lifts per specification. The final top grade may be obtained by placing 6"-12" of topsoil to bring the final plan elevation as shown for the areas of the embankments.
4	Shallow water excavation and grading and principle spillway grading as specified in construction documents.
7	Tile will connect existing intake in R.O.W. of 210th Ave and outlet in drainage ditch approx. 2,000' feet to the west. Finished grade of the new tile is expected to be on grade between 0.10% and 0.14%.

GENERAL NOTES:

ITEM	DESCRIPTION
A.	The contractor shall notify the following two weeks prior to construction: 1. District Inspector: Heath Delzell, P.E. 515-979-0104
B.	Verify actual locations and elevations with DNR Engineer.
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 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.
E.	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.
F.	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.
G.	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.
H.	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.
I.	The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.
J.	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.

CONSULTANT:
NONE

IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES
6200 PARK AVE, DES MOINES, IA 50321



QUANTITIES AND GENERAL NOTES

PROJECT DESCRIPTION FOR:
**HOGSBACK WMA -
WETLAND RESTORATION**

WINNEBAGO COUNTY

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SHEET NO:		

C.01

