

Certified Wetland Determination

Field Office: Miller FO

Certified By: K Baumberger

Legal Desc: S 3, T 112N, R 68W

Agency: USDA-NRCS

Certified Date: 5/9/2012

Tract: 7222



Legend



0 340 680 1,360 2,040 2,720 3,400 4,080 Feet

W Wetland
FW Farmed Wetland Drained or modified & cropped
prior to 12-23-1985, but still meets wetland criteria
PC Prior Converted
NW Non Wetland
NI Not Inventoried Potential Waters of the US
See NRCS CPA-O26E for definitions and additional info.

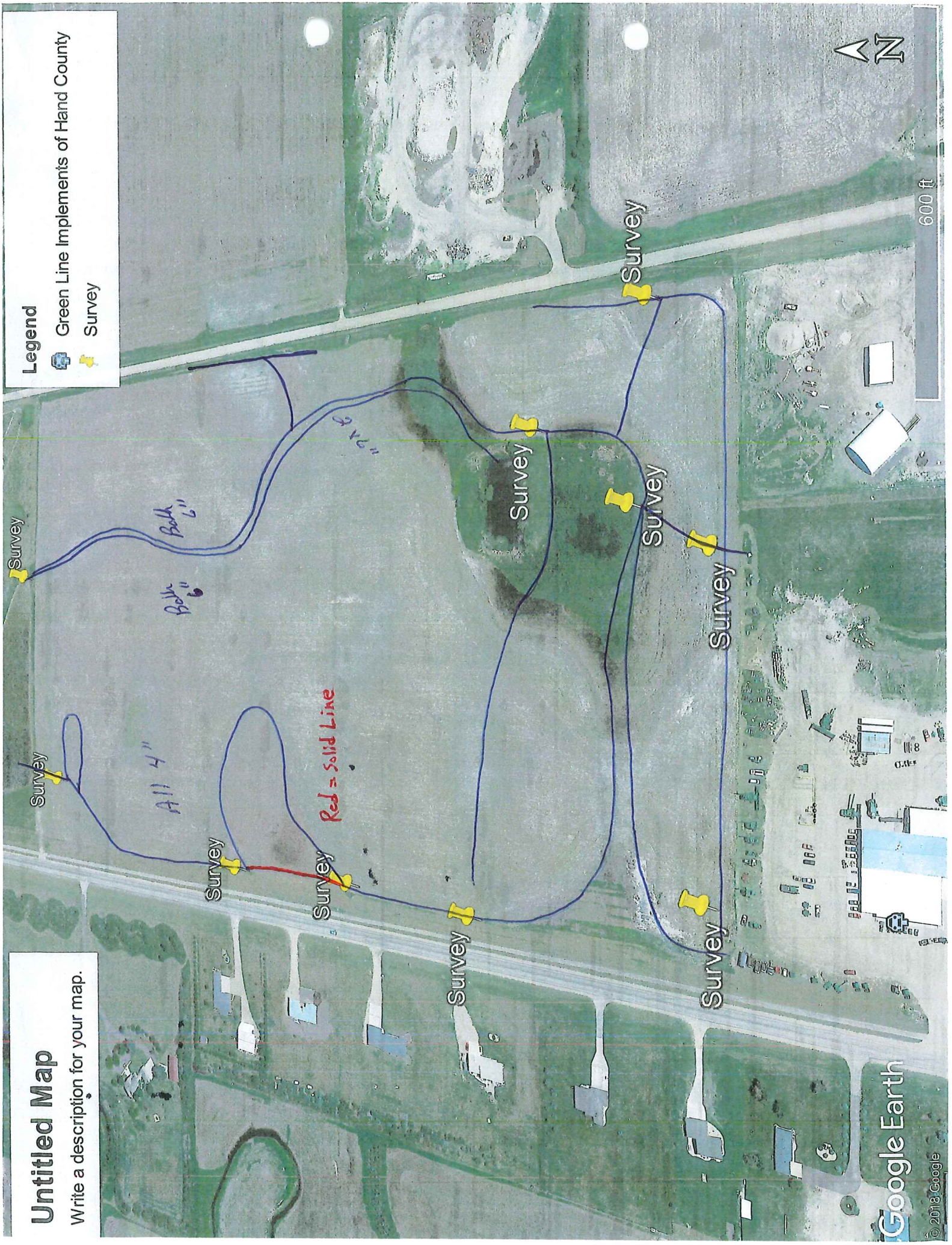


Untitled Map

Write a description for your map.

Legend

- Green Line Implements of Hand County
- Survey



APPENDIX
Tile Installation Agreement

Landowner: Northfork Ranch LLC

Date: 5-14-12

Legal Description: B, 4-112-68

Tract Number(s): 7222

This agreement is to stipulate the conditions to install drainage tile near or through wetland areas.

The following terms must be followed to ensure that wetlands are not impacted by tile drainage and that the landowner and/or operator do not jeopardize present and/or future United States Department of Agriculture (USDA) Farm Program benefits. This agreement is only for USDA purposes and is not a state, county, or local drainage permit.

Items to be completed prior to signing this agreement:

1. The landowner will file with the Farm Service Agency (FSA) an AD-1026, Highly Erodible Land Conservation and Wetland Conservation Certification, describing the planned tile drainage system.
2. The landowner will provide the NRCS with a detailed plan map for evaluation purposes that includes all tile routes, sizes, types, depths, and surface inlets and outlets prior to tile installation.
3. The landowner will allow NRCS personnel permission to enter the property described above to determine the extent of existing and proposed drainage.
4. If no certified wetland determination exists, the landowner must request a certified wetland determination or delineation and allow NRCS personnel permission to enter the property described above to make the determination.

By signing this agreement, you are agreeing to the following terms:

1. The above items (1-4) have been addressed.
2. The landowner will contact the COE before tile installation to request a permit for the activity, if needed.
3. The landowner will ensure that other federal, state, county, and other local regulations have been followed.
4. The tile system will be installed as shown on the attached map. This map shows landowner-NRCS final agreed upon tile routes, sizes, and types; any required tiling restrictions; and any surface inlets and outlets.
5. The tiler must stake the project and allow NRCS personnel to inspect the route prior to installation. Any required nonperforated tile will be flagged off.
6. NRCS personnel will be allowed to inspect and verify tile installation. Following tile installation the landowner or operator will provide NRCS an "as installed" map certifying the location of both perforated and nonperforated tile. If nonperforated tile is required, the landowner or operator shall provide NRCS with receipts showing that nonperforated tile was purchased for the applicable tract.
7. Lateral effect distances will be as specified in attached Table 1. The applicable distances depend on the soil type and effective depth of the drain. Note that there are additional wetland restrictions for tile drainage systems that have surface inlets and for wetlands that receive substantial groundwater (groundwater discharge wetlands and slope wetlands). These restrictions may include requiring increased lateral effect distances, outletting the tile system to the wetland, and/or allowing no tiling in the upstream or lateral land area where the groundwater is coming from unless the tiling system outlets on the upstream end of the wetland.

Landowner Signature: _____ Date: _____

Inspected by: _____ (NRCS) Date: _____

Agreement terms met? YES NO

Comments: _____

Table 1: Lateral Effect Distances

Landowner: Northfork Ranch LLC

Tract Number(s): 7222

Legal Description: 34-112-68

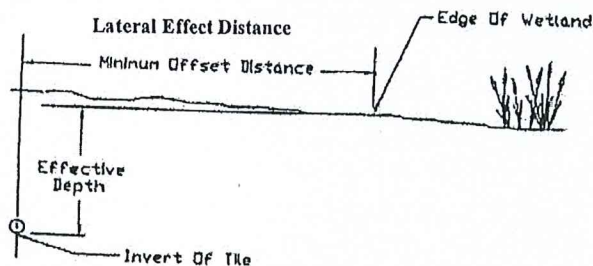
County: Hard

Prepared by: Bamberger

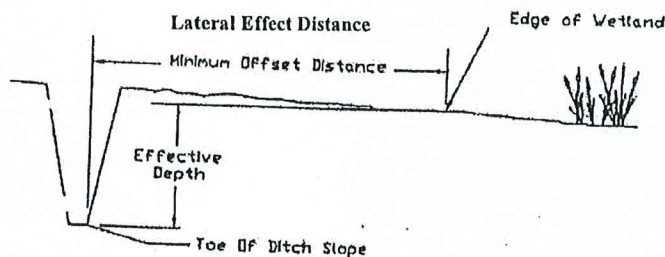
Date: 5-14-12

[illegible]

¹Effective depth: elevation at the edge of the wetland minus the elevation of the tile invert.



TILE DRAIN SYSTEM



OPEN DITCH SYSTEM

Table 2. Potential Groundwater Recharge and Discharge Hydric Soils

Potential Groundwater Recharge Hydric Soils in Depressions

Dimmick	Parnell
Dovray	Plankinton
Heil	Rimlap
Hoven	Shue
Kolls	Tetonka
Koto	Tiffany
Macken	Toko
Nishon	Tonka
Overshue	Worthing

Potential Groundwater Discharge Hydric Soils in Depressions

Albaton, Depressional	Minnewasta	Marlake
Baltic	Minewauken	
Colvin ³	Oldham	
Ludden, Ponded	Orwet	
Lute	Parnell, Ponded ³	
Mauvais	Southam	
McKenzie	Worthing, Ponded ³	

Hydric Soils not in Depressions

Albaton	Fedora	Loup
Arlo	Flom	Lowe
Arveson	Forney	Ludden
Badger ²	Fossum	Luton
Badus	Gannett	Marshbrook ²
Baltic, Flooded	Glenross	Marysland
Bigwinder	Grat	Napa
Borup	Hamar	Norway
Calco	Harps	Obert
Canisteo	Harriet	Owego
Castlewood	Hegne	Playmoor
Chancellor ²	Herdcamp	Rauville
Chaska ²	Hidewood	Regan
Clamo ²	Higgins	Ryan
Colvin	Holmquist	Sage
Crossplain ²	James	Salmo
Cutcomb	Kratka	Sarpy ^{1,2}
Dogiecreek	Lallie	Stirum
Durrstein	Lamo, Wet ²	Vallers
Egas	Lamoure ²	Venlo
Elpam	Lawet ²	Whitewood ²
Almeria	Crowther	Cullison
Fulda	Gus	Hoffland
Platte	Sedgeville	Tryon

¹ Some phases of this soil are not frequently flooded for long duration.

² Some phases of this series are not hydric.

³ Can be a recharge depressional wetland in some map units. Check landscape and Calcium Carbonate.

Guidelines for Flagging Wetlands

The amount of effort in connection with flagging tile setbacks around wetlands will be left up to NRCS field personnel to decide. Some guidelines for flagging wetlands are as follows:

1. A detailed plan map must be submitted to the NRCS which includes all tile routes, sizes, types, depths, and surface inlets and outlets prior to tile installation. This plan will be analyzed by the NRCS to ensure that wetland hydrology was not impacted.
2. The NRCS will flag around the wetlands using the applicable lateral effect distances. It is preferable that the tiler stake the approximate tile alignment prior to installation and prior to the NRCS flagging the lateral effect distances. Tile may be disallowed in some areas outside the wetland and its applicable lateral effect distance. In other areas, tile may be required to outlet above wetlands.
3. In connection with flagging around wetlands, the NRCS will use the certified wetland determination map for determining the boundary of the wetlands. When flagging lateral effect distances, some minor adjustments of the boundary in the field based on hydrology, vegetation, and soil is acceptable. The elevation of the wetland edge shall be compared with the elevation of the tile invert to determine the applicable lateral effect distance. Slope should be considered (if significant) when determining the lateral effect distance.
4. If there is a significant difference in elevation between the natural ground surface at the wetland edge and the natural ground surface above the tile, the laser level should be used to determine the elevation difference. The lateral effect distances will be measured using a tape, measuring wheel, or other acceptable measuring device.
5. Any areas where nonperforated tile is required by the NRCS must be clearly communicated to the producer. If NRCS personnel are not present at the time of installation, the landowner and/or operator shall certify the location and extent of the nonperforated tile.