

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Forman Creek Farm--Oneida)
(Property Identification Number) **PCB 20-**
06-12-200-001) **(Tax Certification)**
)

NOTICE

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, copies of which are herewith served upon you.

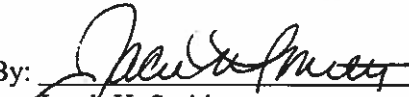
Forman Creek Farm
2256 Knox Road 1150 E
Oneida, Illinois 61467

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite 11-500
Chicago, Illinois 60601

Copies also provided electronically as follows:

Illinois Department of Revenue
via email at REV.PropTaxApp@illinois.gov
101 West Jefferson
Springfield, Illinois 62794

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Jacob H. Smith
Assistant Counsel
Division of Legal Counsel

DATED: October 15, 2019

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

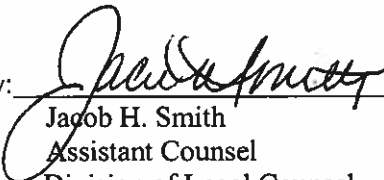
BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Forman Creek Farm--Oneida)
(Property Identification Number) **PCB 20-**
06-12-200-001) **(Tax Certification)**
)

APPEARANCE

The undersigned, as one of its attorneys, hereby enters an APPEARANCE on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By:  _____
Jacob H. Smith
Assistant Counsel
Division of Legal Counsel

DATED: October 15, 2019

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217)782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Forman Creek Farm--Oneida)
(Property Identification Number) PCB 20-
06-12-200-001) (Tax Certification)
)
)

**RECOMMENDATION OF THE ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY**

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board ("Board"), 35 Ill. Adm. Code 125.204.

1. On July 23, 2018, the Illinois EPA received a request from Becky Ann Nichols on behalf of Forman Creek Farm (log number TC-140077, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
2. The facility's address is:

Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

The proposed water pollution control facility in this request is located in the SW ¼ of Section 12, T12N, R2E of the 4th P.M. in Knox County, at the above street address and consist of the following facilities:

One (1) concrete manure pit approximately 72 ft. (length) x 46 ft. (width) x 10 ft. (depth) with 2 concrete pump out pits approximately (6 ft. x 6 ft. x 11 ft. deep), the portion of concrete slatted flooring over this manure pit with its supporting concrete columns and precast beams and the length of Form-a -Drain around this manure pit; and

One (1) concrete manure scrape alley approximately 110 ft. (length) x 8 ft. (width) that conveys liquid livestock waste to the manure pit.

These livestock waste management facilities are used to collect, transport, and/or store livestock waste prior to cropland application, and is further described in Exhibit

A.

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2018), and Section 125.200(a) of the Board's regulations, 35 Ill. Adm. Code 125.200(a), define

"pollution control facilities" as:

any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: eliminating, preventing, or reducing air or water pollution ...or treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.

4. In order to receive preferential tax treatment as pursuant to 35 ILCS 200/11-5 (2018), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2014) and 35 Ill. Adm. Code 125.200(a).
5. Upon receipt of a tax certification application, the Illinois EPA must file a recommendation on the application with the Board, 35 Ill Adm. Code 125.204(a).
6. Based on the information in the application and the purpose of the facility, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and is eligible for tax certification from the Board. Specifically, the Illinois EPA recommends that the following portion of the facility be deemed eligible for tax certification from the Board:

The concrete manure storage area/pit (approximately 72 ft x 46 ft. x 10 ft. high walls), along with the concrete manure scrape alley (approximately 110

ft. x 8 ft.) which is used to collect, transport and/or store livestock wastes prior to cropland application.

7. Based on the information in the application and the purpose of the facility, it is the Illinois EPA's engineering judgment that a portion of the described facilities may **not** be considered "pollution control facilities", pursuant to 35 Ill. Adm. Code 125.200(a), because this portion of the facilities does not have the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are **not** eligible for tax certification from the Board. Specifically, the Illinois EPA recommends that the following portion of the facility be denied tax certification from the Board:

The wood framed walls and roof structure of the bedded pack area and the deep pit area and the concrete bed-pack divider walls and roof support walls;

the concrete feed-bunks and transfer alley and solid concrete flooring, not including the approximately 8 ft. x 110 ft. scrape alley, within the bedded pack area; and

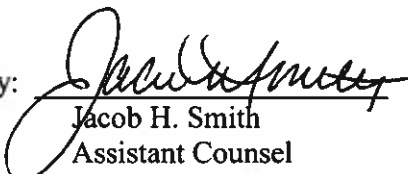
the concrete floors and walls and the wood framed walls and roof structure of the commodity/feed storage building.

The primary purpose of this portion of the facility is to provide an area for feeding animals, keeping animals clean, sheltering animals from outside weather conditions, reduce bedding needs and is not pollution control. The *Beef Housing & Equipment Handbook*, Third Edition by Midwest Plan Service (April 1979) (MWPS-6) states that buildings protect cattle and feeding equipment and allow for better feeding efficiencies. MWPS-6 also states that buildings prevent feed from blowing, protect feed and equipment from rain and snow, and provide cattle shelter during the summer and winter. *Beef Production*, Fourth Edition by Diggins, Bundy and Christensen (1984) states that research has shown that efficient animal production can be

improved through closer control over the production environment, and that confinement systems have been most successful in the area of improved production efficiency allowing for more economical gains with less manual labor. The above information confirms the primary purpose of the portion of the Bed Pack Barn not containing manure storage and buildings above the manure pits is not pollution control. Accordingly, the Illinois EPA recommends that this portion of the facility be denied tax certification by the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the requested tax certification for a portion of the facilities and deny the requested tax certification for a portion of the facilities. The applicant has 35 days after the date of service to file a petition with the Board to contest the Illinois EPA's recommendation for the portion of the facilities where the Illinois EPA is recommending that the tax certification be denied, as discussed above.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Jacob H. Smith
Assistant Counsel
Division of Legal Counsel

Dated: October 15, 2019

Illinois Environmental Protection Agency
1021 North Grand Ave. E.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544



Memorandum

To: Charles Gunnarson, Division of Legal Counsel
From: Darin E. LeCrone P.E., Manager, Industrial Unit, Permit Section *DEC*
Date: October 10, 2019
Re: Forman Creek Farm - Oneida
Recommendation of Tax Certification
Log # TC-140077
BOW ID # W0958160005
Property Identification # 06-12-200-001

The Bureau of Water received a request on July 23, 2018 from Forman Creek Farm for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Il. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

Section 12, Township 12-North, Range 2-East of the East 4th PM in Knox County.

Livestock waste management facilities consisting of:

One (1) concrete manure pit approximately 72 ft. (length) x 46 ft. (width) x 10 ft. (depth) with 2 concrete pump out pits approximately (6 ft. x 6 ft. x 11 ft. deep), the portion of concrete slatted flooring over this manure pit with its supporting concrete columns and precast beams and the length of Form-a-Drain around this manure pit; and

one (1) concrete manure scrape alley approximately 110 ft. (length) x 8 ft. (width) that conveys liquid livestock waste to the manure pit.

These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

Page No. 2

Log No. TC-140077

Additional facilities in this request include:

The wood framed walls and roof structure of the bedded pack area and the deep pit area and the concrete bed-pack divider walls and roof support walls;

the concrete feed-bunks and transfer alley and solid concrete flooring, not including the approximately 8 ft x 110 ft. scrape alley, within the bedded pack area; and

the concrete floors and walls and the wood framed walls and roof structure of the commodity/feed storage building.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, the Bureau of Water has determined that the facilities are not "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section. This determination is based on the following factor(s):

The primary purpose of these facilities is to provide an area for feeding animals, keeping animals clean, sheltering animals from outside weather conditions, reduce bedding needs, maintain the quality of commodities and/or feed and is not pollution control. The *Beef Housing & Equipment Handbook*, Third Edition by Midwest Plan Service (April 1979) (MWPS-6) states that buildings protect cattle and feeding equipment and allow for better feeding efficiencies. MWPS-6 also states that buildings prevent feed from blowing, protect feed and equipment from rain and snow, and provide the cattle shelter during the summer and winter. *Beef Production*, Fourth Edition by Diggins, Bundy and Christensen (1984) states that research has shown that efficient animal production can be improved through closer control over the production environment and confinement systems have been most successful in the area of improved production efficiency allowing for more economical gains with less manual labor. The above information confirms the primary purpose of the portion of the Bed Pack Barn not containing manure storage and buildings above the manure pits is not pollution control.

The Bureau of Water therefore recommends that the Board deny the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Darren Gove at 217/782-0610.

DRG:TC-140077_Tax Cert Recommendation_23Jul18.docx

cc: Tax Cert File
DRG

Illinois EPA - Bureau of Water - Division of Pollution Control
Title 35 Subtitle A Part 125 Tax Certifications
Illinois EPA Review Notes for:
Agency Recommendation of Pollution Control Facilities.

BOW ID #: W0958160005

Project Name: Forman Creek Farm

Date application received: 7/23/2018

Reviewer: DRG

Log number: TC-140077

Legal Description:

Section 12 Twp: 12-North Range: 2-East PM: East
4th

County: Knox

Facility Contact: James E. Olmstead

Phone: _309-368-9400

Pollution Control Facility Type:

Cattle/Dairy Livestock Waste Management
Facility

Property ID: 06-12-200-001

Applicant: Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

Facility: Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

Date Control Devices installed: 12/31/2017

Application Signature by: Becky Ann Nichols

Title: Owner

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RELEASABLE

SEP 25 2019

REVIEWER: SAB

Contents of Application: Standard 3-page form, narrative description of facility, and cattle waste flow diagram

Is there a pollutant control flow diagram? **Yes**

Is there sufficient diagrams showing the pollution control facilities? **Yes**

This facility generates the following pollutants and prevents their discharge as indicated:

Livestock waste is collected and land applied to cropland.

Physical description of pollution control facilities that ARE recommended:

Livestock waste management facilities consisting of:

One (1) concrete manure pit approximately 72 ft. (length) x 46 ft. (width) x 10 ft. (depth) with 2 concrete pump out pits approximately (6 ft. x 6 ft. x 11 ft. deep), the portion of concrete slatted flooring over this manure pit with its supporting concrete columns and precast beams and the length of Form-a-Drain around this manure pit; and

one (1) concrete manure scrape alley approximately 110 ft. (length) x 8 ft. (width) that conveys liquid livestock waste to the manure pit.

These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application.

REVIEW NOTES

Project Name Forman Creek Farm Project Location Oneida Cty Knox
 Log No. TC-140077 Descr Beef Cattle facility Date 11/28/2018 Reviewer

Request for Tax Certification of facility consisting of 3 barns

Building 1 - Livestock bldg w/ waste pit
 2017
 • 46' x 72' x 10' slatted flooring
 • 46' x 104' concrete slab bedded pack area
 • wood Roof structure

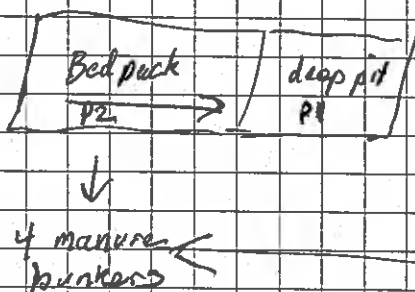
IEPA-DIVISION OF RECORDS MANAGEMENT
 RELEASABLE

Building 2 - Roofed Commodity/Feed Storage Bldg
 2017
 • 30' x 30' Roofed structure
 • 30' x 30' Slab and 10' concrete walls

SEP 25 2019

REVIEWER SJB

Bldg 1 Concept sketch



Need diagram showing all features of the bedpack barn to determine if any of it can be determined to have a primary purpose of pollution control separate animal/manure areas scrape alleys.

Bldg 2 Feed storage bins under roof

- No construction or plan diagrams provided but not required.

Conclusions All Roofing structures and supporting walls are deemed not having the primary purpose of pollution control see ~~the~~ Recommendation for all denied structures.

Called Jason Olmstead about additional info (plans for bunkers)

Rec'd PDF of concrete Construction Plans - Clarified the areas including scrape alley that can be recommended.

⇒ Ready for recommendation and denials

Gove, Darren

From: Jason Olmstead <jolmstead@msa-ps.com>
Sent: Wednesday, November 28, 2018 9:54 AM
To: Gove, Darren
Subject: [External] Forman Creek Farm - Pollution Control Facility Certification
Attachments: 18095000 Forman Creek - Final 20171204 signed_6.pdf

Darren,

Please find attached a pdf copy of the concrete plans for the Forman Creek Farms Cattle Barn (pollution control facility).

If you have any further questions. Please feel free to call or email me.

Thanks,



Jason Olmstead, PE | Senior Project Engineer
MSA Professional Services, Inc.
+1 (563) 424-3703



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SEP 25 2019

REVIEWER: SAB



1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

**Application for Certification (Property Tax Treatment)
 Pollution Control Facility**

FOR AGENCY USE ONLY	
File Number: _____	Date Rec'd: _____
Certification Number: _____	Date: _____

Facility Type (check one): Air Water

This form is to be used for any application for certification of property tax treatment for a pollution control facility for air or water from the Illinois EPA. Separate applications must be completed for each control facility claimed. Do not mix types (air and water). Where both air and water operations are related, file two applications.

If attachments are needed, record them consecutively on an index sheet.

You may complete this form online, save a copy locally, print, sign and submit it to

RECORDED
 JUL 23 2018

Illinois EPA
 Attention: Al Keller, Permit Section
 Division of Water Pollution Control
 1021 North Grand Avenue East, P.O. Box 19276
 Springfield, IL 62794-9276

I. Applicant Information:

Company Name: <u>Forman Creek Farm</u>	Person to Contact for Additional Details: <u>Jason E. Olmstead, PE</u>
Person Authorized to Receive Certification: <u>Becky Ann Nichols</u>	Street Address: <u>MSA Prof. Services, 2117 State St, Ste 200</u>
Street Address: <u>2256 Knox Road 1150 E</u>	City: <u>Bettendorf</u> State: <u>IA</u>
City: <u>Oneida</u> State: <u>IL</u>	Zip: <u>52722</u> Phone: <u>563.424.3703</u>
Zip: <u>61467</u> Phone: <u>309.368.9400</u>	Email Address: <u>jolmstead@msa-ps.com</u>
Email Address: <u>nicholsb75@hotmail.com</u>	

II. Facility Information:

Facility Location: Quarter Section: 12 Township: 12N Range: 2E
 Municipality: _____ Township: Sparta
 Note: A plat map location is requested for facilities located outside of municipal boundaries.
 Address: 2256 Knox Road 1150 E City: Oneida
 State: IL Zip Code: 61467 County: Knox Book Number: _____
 Property Index Number: 06-12-200-001

SEP 25 2019
 REVIEWER: SAB

Note: The Property Index Number is the numerical reference used to identify a parcel of real property for assessment and taxation purposes.

Manufacturing Operations Information:

Nature of Operations Conducted at the Above Location:

Beef Cattle Facility

Permit Information:

WPC Construction Permit Number: _____	Date Issued: _____
NPDES Permit Number: _____	Date Issued: _____ Exp. Date: _____
APC Construction Permit Number: _____	Date Issued: _____
APC Operating Permit Number: _____	Date Issued: _____ Exp. Date: _____

Note: Submit copies of all relevant permits issued by local pollution control agencies. (e.g. MSD Construction Permit)

This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application.

Forman Creek Farm Beef Facility

The facility consists of three barns:

Building 1 (Installed 2017): Roofed Livestock building with roof structure and waste storage.

- 184' x 62' Wood roof structure.
- 46' x 72' 10ft deep slated concrete storage tank under roof
- 46' x 104' Concrete slab and walls bedded pack area under roof.

Building 2 (Installed 2017): Roofed Commodity/Feed Storage building.

- 30' x 30' Wood roof Structure
- 30' x 30' Concrete Slab and 10' concrete walls.

Building 1:

Building 1 consist of two waste handling areas. The west bedded pack area has poured in place concrete floor that allows solid waste to be stored and liquid waste to flow to the adjacent deep pit area. The east deep pit area consists of a precast concrete slotted floor enabling excreta and wastewater to fall through and accumulate in the below floor pit. The deep pit has two pump-out pits along the south sidewall that collect manure and allow manure transfer through a hose to be pumped for field application.

Animal capacity of 280 head of Beef Cattle.

The facility is covered by a mono-slope style roof structure (P3) that consists of wood trusses, wood beams, wood support walls anchored to the top of the concrete walls, and concrete columns.

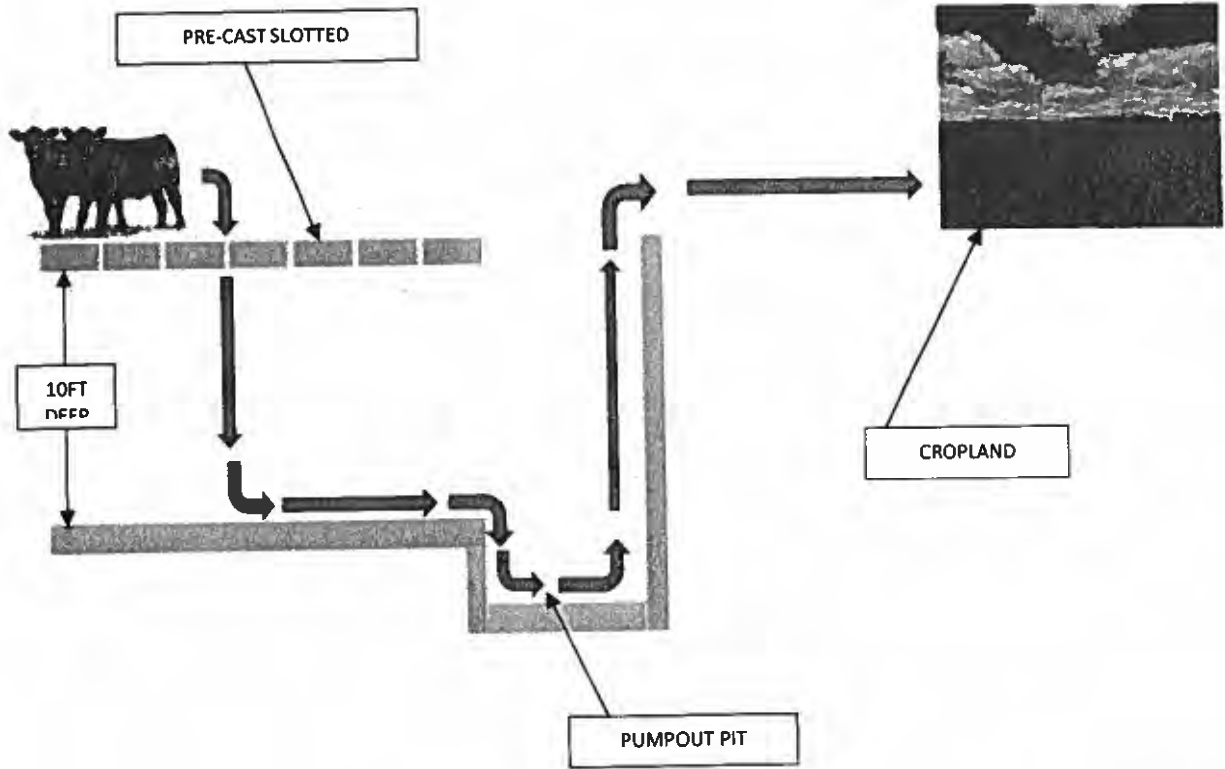
(P1) The east portion of the barn consists of a 10ft deep tank with a 5" thick slab and 10" thick pit walls. The walls have footings that are 12" thick and 3'-0" wide. Columns within the pit are 16" in diameter, 9'-2" tall and supported by 48"x48" square footings 12" thick. The columns support 10"x16"x16ft long precast concrete floor beams. The floor beams support a 6" thick precast concrete slotted gang slat floor. Each pump-out pit is 6'-0" x 6'-0" with 10" thick walls. Footings around the pumpout pit walls measure 1'-6" by 1'-6" thick. The recessed sump area is 3'-4" x 9'-0" x 12" deep.

(P2) the west portion of the barn consists of four (4) concrete bedded pack manure bunkers with 5" thick slabs and 8" thick bunker walls. The walls have footings that are 12" thick and 4'-8" wide.

Building 2 has three (3) concrete feed storage bins that consist of a 5" thick slab and 10" thick walls. The walls have footings that are 12" thick and 3'-0" wide. The facility is covered by a mono-slope style roof structure that consists of wood trusses and support walls anchored to the top of the concrete walls.

These facilities protect the ground and surface water by providing collection and storage of livestock/feed area waste for about 180 days. Subsequently, the waste may be applied agronomically to cropland under proper soil and weather conditions for safe use.

MANURE DIAGRAM



RECEIVED
JUL 23 2018
BOWMAN COUNTY SECTION

Illinois EPA - Bureau of Water - Division of Pollution Control
Title 35 Subtitle A Part 125 Tax Certifications
Illinois EPA Review Notes for:
Agency Recommendation of Pollution Control Facilities.

BOW ID #: W0958160005

Project Name: Forman Creek Farm

Date application received: 7/23/2018

Reviewer: DRG

Log number: TC-140077

Legal Description:
Section 12 Twp: 12-North Range: 2-East PM: East
4th

County: Knox

Facility Contact: Jason E. Olmstead

Phone: _(Olmstead 563 424-3703) 309-368-9400

Pollution Control Facility Type:
Cattle/Dairy Livestock Waste Management
Facility

Property ID: 06-12-200-001

Applicant: Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

Facility: Forman Creek Farm
2256 Knox Road 1150 E
Oneida, IL 61467

Date Control Devices installed: 12/31/2017

Application Signature by: Becky Ann Nichols

Title: Owner

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

SEP 25 2019

REVIEWER: SAB

Contents of Application: Standard 3-page form, narrative description of facility, and cattle waste flow diagram

Is there a pollutant control flow diagram? **Yes**

Is there sufficient diagrams showing the pollution control facilities? **Yes** *provided via email 11/26/18*

This facility generates the following pollutants and prevents their discharge as indicated:
Livestock waste is collected and land applied to cropland.

Physical description of pollution control facilities that ARE recommended:

Livestock waste management facilities consisting of:

One (1) concrete manure pit approximately 72 ft. (length) x 46 ft. (width) x 10 ft. (depth) with 2 concrete pump out pits approximately (6 ft. x 6 ft. x 11 ft. deep), the portion of concrete slatted flooring over this manure pit with its supporting concrete columns and precast beams and the length of Form-a-Drain around this manure pit; and

one (1) concrete manure scrape alley approximately 110 ft. (length) x 8 ft. (width) that conveys liquid livestock waste to the manure pit.

These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application.

Illinois EPA Log #: TC-140077

Page 2 of 2

In addition to the above described facilities, the Agency determined that the following facilities ARE NOT pollution control facilities according to § 125.200 having the primary purpose of eliminating, preventing, or reducing air or water pollution or treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without pretreatment, treatment, modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property and therefore ARE NOT recommended.

The wood framed walls and roof structure of the bedded pack area and the deep pit area and the concrete bed-pack divider walls and roof support walls; the concrete feed-bunks and transfer alley and solid concrete flooring, not including the approximately 8 ft x 110 ft. scrape alley, within the bedded pack area; and the concrete floors and walls and the wood framed walls and roof structure of the commodity/feed storage building.

Notes:

Received concrete construction plans for the bedpack barn and manure pit structures on 11/28/2018 from Jason Olmstead of MSA prof. services.

Nothing follows – DRG - (September 18, 2019)



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Application for Certification (Property Tax Treatment) Pollution Control Facility

FOR AGENCY USE ONLY	
File Number: <u>TC-140077</u>	Date Rec'd: <u>7/23/18</u>
Certification Number: _____	Date: _____

Facility Type (check one): Air Water

This form is to be used for any application for certification of property tax treatment for a pollution control facility for air or water from the Illinois EPA. Separate applications must be completed for each control facility claimed. Do not mix types (air and water). Where both air and water operations are related, file two applications.

If attachments are needed, record them consecutively on an index sheet.

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

You may complete this form online, save a copy locally, print, sign and submit it to:

SEP 25 2019

Illinois EPA
Attention: Al Keller, Permit Section
Division of Water Pollution Control
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

REVIEWER: SAB

I. Applicant Information:

Company Name: <u>Forman Creek Farm</u>	Person to Contact: _____
Person Authorized to Receive Certification: <u>Becky Ann Nichols</u>	for Additional Details: <u>Jason E. Olmstead, PE</u>
Street Address: <u>2256 Knox Road 1150 E</u>	Street Address: <u>MSA Prof. Services, 2117 State St, Ste 200</u>
City: <u>Oneida</u> State: <u>IL</u>	City: <u>Bettendorf</u> State: <u>IA</u>
Zip: <u>61467</u> Phone: <u>309.368.9400</u>	Zip: <u>52722</u> Phone: <u>563.424.3703</u>
Email Address: <u>nicholsb75@hotmail.com</u>	Email Address: <u>jolmstead@msa-ps.com</u>

II. Facility Information:

Facility Location: Quarter Section: 12 Township: 12N Range: 2E
Municipality: _____ Township: Sparta

Note: A plat map location is requested for facilities located outside of municipal boundaries.

Address: 2256 Knox Road 1150 E City: Oneida
State: IL Zip Code: 61467 County: Knox Book Number: _____

Property Index Number: 06-12-200-001

Note: The Property Index Number is the numerical reference used to identify a parcel of real property for assessment and taxation purposes.

Manufacturing Operations Information:

Nature of Operations Conducted at the Above Location:

Beef Cattle Facility

Permit Information:

WPC Construction Permit Number: _____ Date Issued: _____
NPDES Permit Number: _____ Date Issued: _____ Exp. Date: _____
APC Construction Permit Number: _____ Date Issued: _____
APC Operating Permit Number: _____ Date Issued: _____ Exp. Date: _____

Note: Submit copies of all relevant permits issued by local pollution control agencies. (e.g. MSD Construction Permit)

Manufacturing Process Information:

Please provide information on the manufacturing process and materials on which pollution control facility is used, including each major piece of equipment associated with the pollution control facility (or low sulfur dioxide emission coal fueled device).

Description of the Process:

N/A

Materials Used in the Process:

N/A

Pollution Control Facility Information:

Please provide a narrative description of the pollution control facility (or low sulfur dioxide emission coal fueled device), and an explanation of why its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility, as well as a narrative description and a process flow diagram describing the pollution control facility. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency, if applicable.

Describe the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

See Attached Sheet

Describe the Primary Purpose of the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

See Attached Sheet

Identify the statute or regulation (federal or state), or local ordinance, if any, requiring the installation of the subject pollution control facility (or low sulfur dioxide emission coal fueled device).

See Attached Sheet

Nature of Contaminants or Pollutants:

List air contaminants or water pollution substances released as effluents to the manufacturing processes. Also list the final disposal of any contaminants removed from the manufacturing processes.

Contaminant or Pollutant	Material Retained, Captured or Recovered	
	Description	Disposal or Use
Livestock Manure	Beef Manure	Field Application for Crop Nurients

Note: Contaminant or pollutant means that which is removed from the process by the pollution control facility.

Point(s) of Waste Water Discharge:

Identify the location of the discharge to the receiving stream. This will typically refer to a source of water pollution but can include water-carried wastes from air pollution control facilities.

Plans and Specifications Attached Yes No

Submit Drawings, which clearly show:

- (a) Point(s) of discharge to receiving stream; and
- (b) Sewers and process piping to and from the control facility.

Are contaminants (or residues) collected by the control facility? Yes No

Note: If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value dollars reclaimed by the sale or reuse of the collected substances. State the cost of reclamation and related expense.

Project Status:

Date Installation Completed: Dec 31, 2017

Provide the date the pollution control facility was first placed into service and operated. If not, explain.

See attached Sheet

Status of installation on date of application:

Completed

III. Verification and Signature:

The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge is true and correct.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

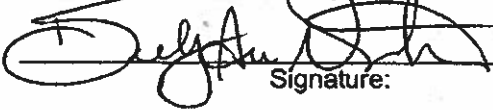
Becky Ann Nichols

Printed Name:

Owner

Title:

For incorporated entities, signature should be from an authorized corporate representative.


Signature:

July 12, 2018
Date:

Forman Creek Farm Beef Facility

The facility consists of three barns:

Building 1 (Installed 2017): Roofed Livestock building with roof structure and waste storage.

- 184' x 62' Wood roof structure.
- 46' x 72' 10ft deep slated concrete storage tank under roof
- 46' x 104' Concrete slab and walls bedded pack area under roof.

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Building 2 (Installed 2017): Roofed Commodity/Feed Storage building.

- 30' x 30' Wood roof Structure
- 30' x 30' Concrete Slab and 10' concrete walls.

SEP 25 2019

REVIEWER: SAB

Building 1:

Building 1 consist of two waste handling areas. The west bedded pack area has poured in place concrete floor that allows solid waste to be stored and liquid waste to flow to the adjacent deep pit area. The east deep pit area consists of a precast concrete slotted floor enabling excreta and wastewater to fall through and accumulate in the below floor pit. The deep pit has two pump-out pits along the south sidewall that collect manure and allow manure transfer through a hose to be pumped for field application.

Animal capacity of 280 head of Beef Cattle.

The facility is covered by a mono-slope style roof structure (P3) that consists of wood trusses, wood beams, wood support walls anchored to the top of the concrete walls, and concrete columns.

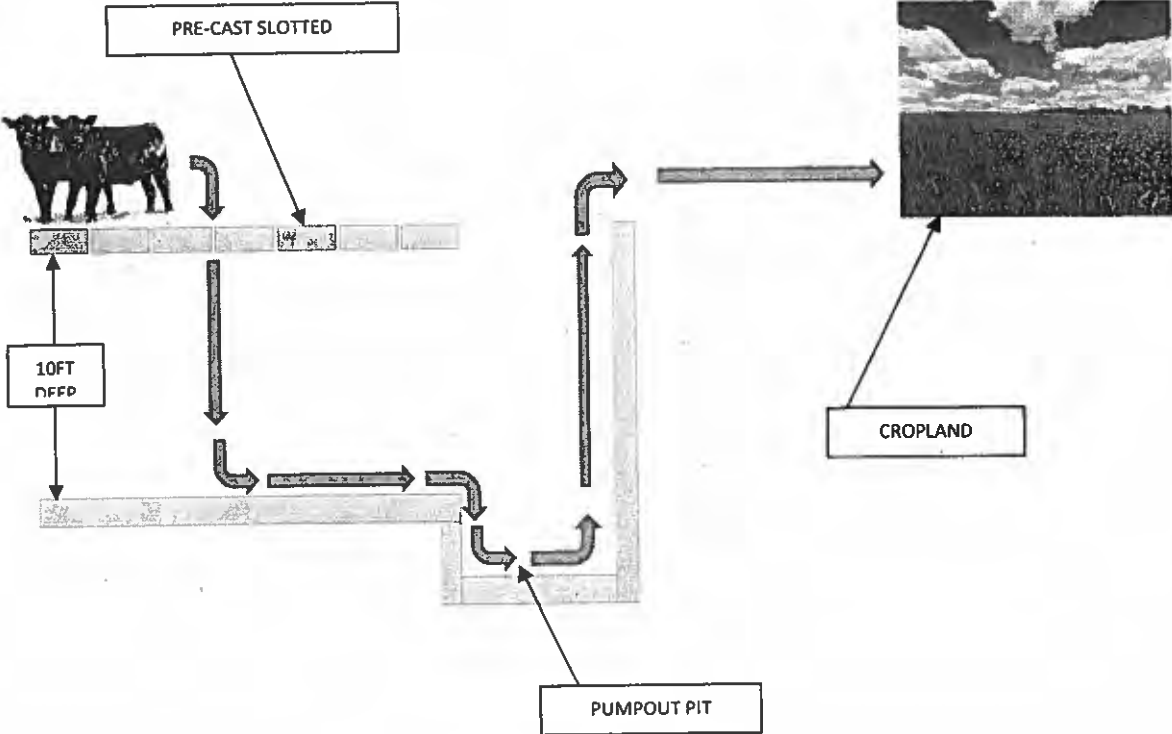
(P1) The east portion of the barn consists of a 10ft deep tank with a 5" thick slab and 10" thick pit walls. The walls have footings that are 12" thick and 3'-0" wide. Columns within the pit are 16" in diameter, 9'-2" tall and supported by 48"x48" square footings 12" thick. The columns support 10"x16"x16ft long precast concrete floor beams. The floor beams support a 6" thick precast concrete slotted gang slat floor. Each pump-out pit is 6'-0" x 6'-0" with 10" thick walls. Footings around the pumpout pit walls measure 1'-6" by 1'-6" thick. The recessed sump area is 3'-4"x 9'-0" x 12" deep.

(P2) the west portion of the barn consists of four (4) concrete bedded pack manure bunkers with 5" thick slabs and 8" thick bunker walls. The walls have footings that are 12" thick and 4'-8" wide.

Building 2 has three (3) concrete feed storage bins that consist of a 5" thick slab and 10" thick walls. The walls have footings that are 12" thick and 3'-0" wide. The facility is covered by a mono-slope style roof structure that consists of wood trusses and support walls anchored to the top of the concrete walls.

These facilities protect the ground and surface water by providing collection and storage of livestock/feed area waste for about 180 days. Subsequently, the waste may be applied agronomically to cropland under proper soil and weather conditions for safe use.

MANURE DIAGRAM



Gove, Darren

From: Jason Olmstead <jolmstead@msa-ps.com>
Sent: Wednesday, November 28, 2018 9:54 AM
To: Gove, Darren
Subject: [External] Forman Creek Farm - Pollution Control Facility Certification
Attachments: 18095000 Forman Creek - Final 20171204 signed_6.pdf

Darren,

Please find attached a pdf copy of the concrete plans for the Forman Creek Farms Cattle Barn (pollution control facility).

If you have any further questions. Please feel free to call or email me.

Thanks,



Jason Olmstead, PE | Senior Project Engineer

MSA Professional Services, Inc.

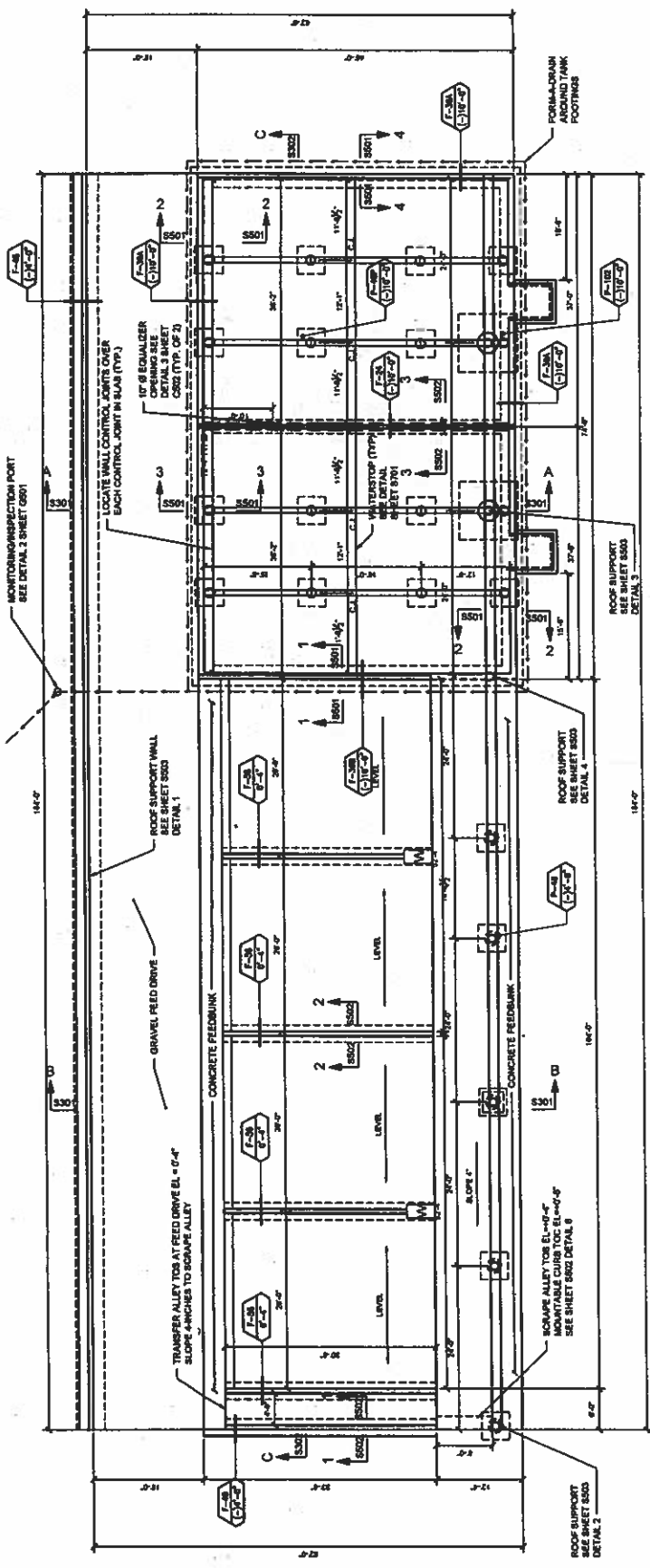
+1 (563) 424-3703



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RELEASABLE

SEP 25 2019

REVIEWER: SAB



WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	CONC. REQ'D	TRAILER MARK	MARK	ELEV. TOP OF FOOTING	REMARKS
F-1A	2'-0"	1'-0"	3'-0" @ 12"	1	F-1A	44'-0"	CENTERED UNDER WALL
F-1B	2'-0"	1'-0"	3'-0" @ 12"	1	F-1B	44'-0"	OFF-CENTER UNDER WALL
F-2A	2'-0"	1'-0"	3'-0" @ 12"	2	F-2A	44'-0"	CENTERED UNDER WALL
F-2B	2'-0"	1'-0"	3'-0" @ 12"	2	F-2B	44'-0"	OFF-CENTER UNDER WALL
F-3A	2'-0"	1'-0"	3'-0" @ 12"	3	F-3A	44'-0"	CENTERED UNDER WALL
F-3B	2'-0"	1'-0"	3'-0" @ 12"	3	F-3B	44'-0"	OFF-CENTER UNDER WALL
F-4A	2'-0"	1'-0"	3'-0" @ 12"	4	F-4A	44'-0"	CENTERED UNDER WALL
F-4B	2'-0"	1'-0"	3'-0" @ 12"	4	F-4B	44'-0"	OFF-CENTER UNDER WALL

PAD FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	CONC. REQ'D	TRAILER MARK	MARK	ELEV. TOP OF FOOTING	REMARKS
P-1A	2'-0"	2'-0"	1'-0"	3'-0" @ 12"	1	P-1A	44'-0"	2' CLEAR FROM BOTTOM OF FOOTING
P-1B	2'-0"	2'-0"	1'-0"	3'-0" @ 12"	1	P-1B	44'-0"	2' CLEAR FROM BOTTOM OF FOOTING
P-2A	2'-0"	2'-0"	1'-0"	3'-0" @ 12"	2	P-2A	44'-0"	2' CLEAR FROM BOTTOM OF FOOTING
P-2B	2'-0"	2'-0"	1'-0"	3'-0" @ 12"	2	P-2B	44'-0"	2' CLEAR FROM BOTTOM OF FOOTING

- PLAN NOTES:**
1. THE TANK AND BASE SLAB ARE NOT DIMENSIONED FOR HYDRAULIC PRESSURES OR WIND/HVAC. MAINTAIN THE GROUND WATER TABLE BELOW THE TOP OF THE BASE SLAB.
 2. THE CONTRACTOR SHALL ENSURE THE WATER/TANKS ARE OF THE PROPER INSTALLATION AND DETAILING OF THE WATER/TANKS AND JOINT DETAILS AS SHOWN IN THESE PLANS AND PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. WATERSTOPS SHOWN IN THESE PLANS SHALL BE AS FOLLOWS:
 - BASE SLAB, WATER STOP - ORIENTED TOWARD THE JOINT.
 - PVC WATERSTOP - ORIENTED TOWARD THE JOINT.
 4. "C.I." INDICATES SUGGESTED LOCATIONS OF BASE CONTROL JOINTS. CONTROL JOINTS SHALL BE PLACED IN ACCORDANCE WITH THE DETAILING FROM A MANUFACTURER. MAKE THESE JOINTS NOT GREATER THAN 3'-0" (C.I. IS 3'-0" MAX) AND 8" O.C. IF SLAB.
 5. SEE SHEET FOR BASE SLAB THICKNESS AND REINFORCEMENT.
 6. FOOTINGS SHALL BE CENTERED ON THE RESPECTIVE WALL OR COLUMN UNLESS SHOWN OTHERWISE.
 7. TOP OF FOOTING IS 2'-0" BELOW FINISH FLOOR ELEVATION (TOP OF SLAB) IS 4'-0". SEE CIVIL SHEET FOR FINISH FLOOR ELEVATION.
 8. OTHER THAN ALONG THE FEED DRIVE, THE TANK WALLS ARE NOT DIMENSIONED FOR VEHICULAR BURCHASE PRESSURE. DO NOT ALLOW VEHICLES OR HEAVY EQUIPMENT WITHIN 6" OF THE TANK WALLS EXCEPT ALONG THE FEED DRIVE.

FOR AGENCY REVIEW

1005000.0
8/101

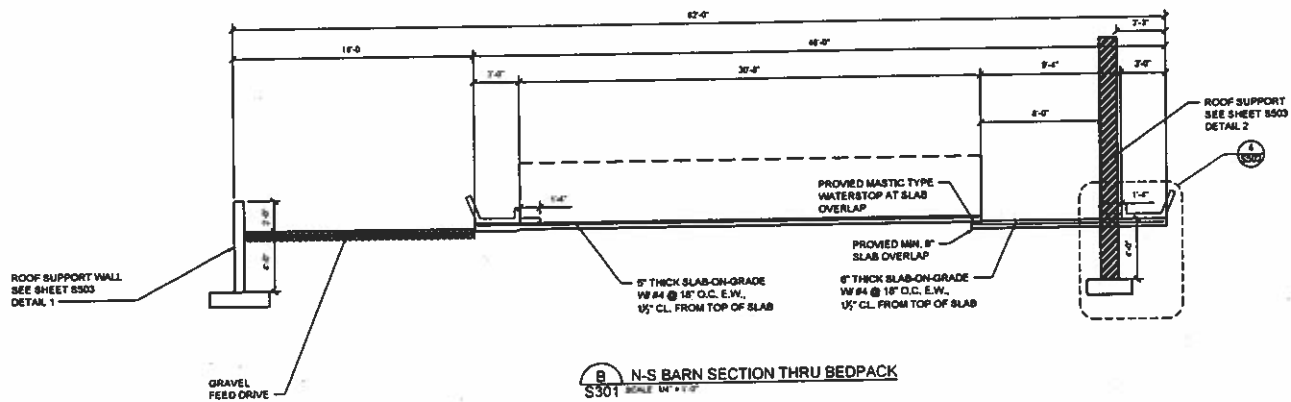
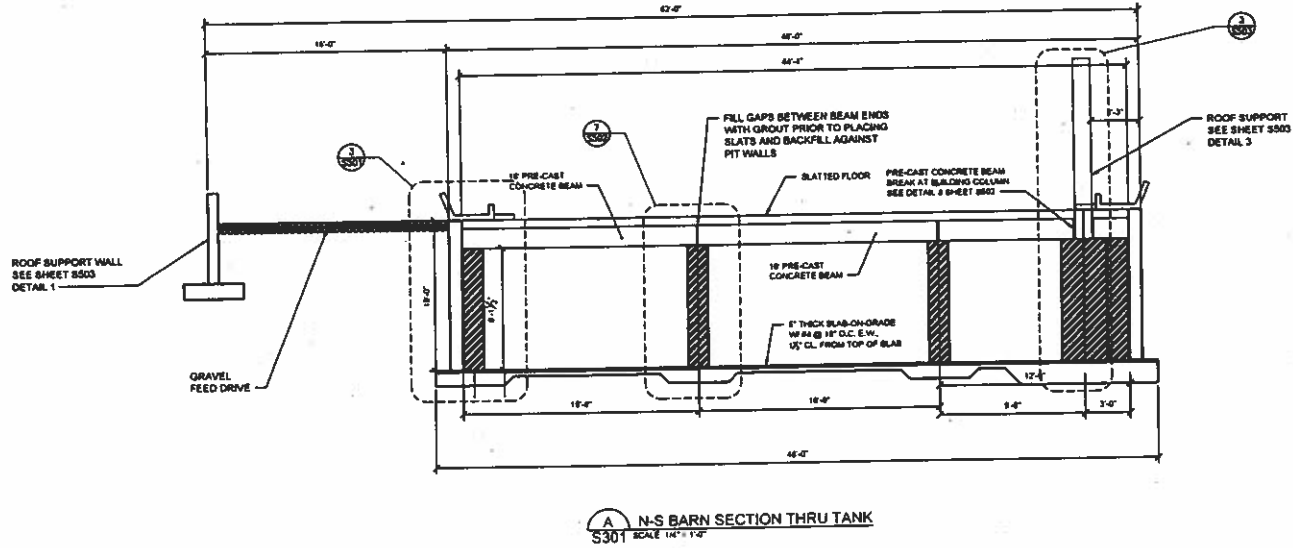
CONCRETE PLAN VIEW

BEEF FACILITY EXPANSION 2017
FORAN CREEK FARM
ONEIDA, IL

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3117 West Brown Street, #11373
Mesa, AZ 85201 (480) 735-8321

NO.	REVISION	DATE	BY	CHKD.

Rec'd 11/28/2018



FOR AGENCY REVIEW

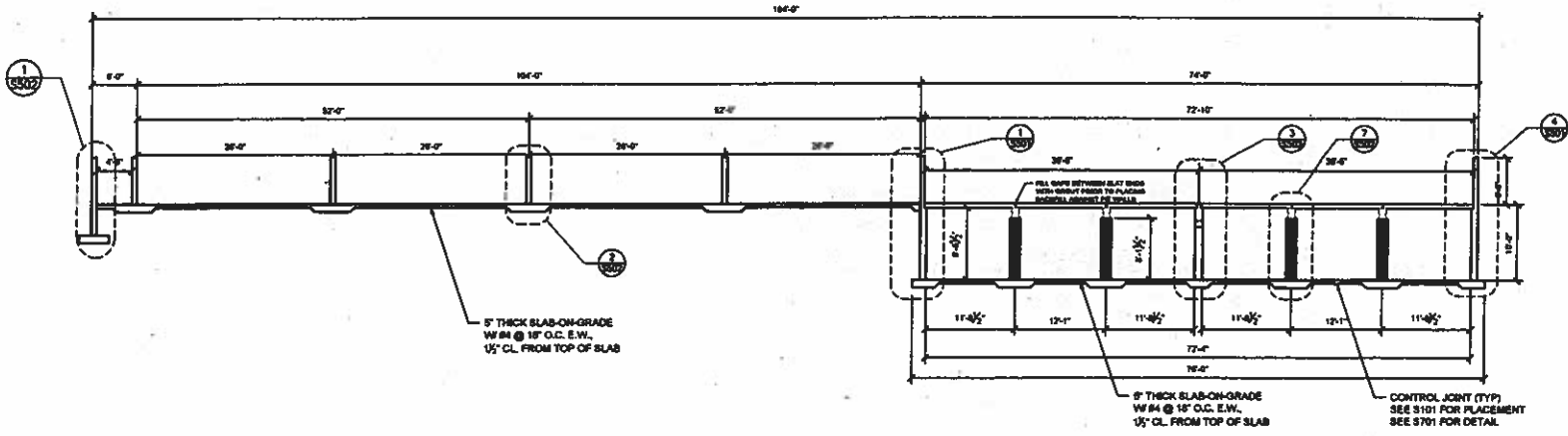
PROJECT NO.	18095000.0
PROJECT DATE	08/20/17
DESIGNER	MSA
CHECKED BY	JLS

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PLANNING | PLANNING | SURVEYING
2117 Stone Street, Baton Rouge, LA 70802
(504) 388-3900 | (866) 732-4231
www.msa-inc.com

BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONEDA, IL

CONCRETE SECTIONS

18095000.0
S301



C W-E BARN SECTION
S302 SCALE 1/8" = 1'-0"

FOR AGENCY REVIEW

PROJECT NO.	18085000.0	DATE	11/28/2018
PROJECT NAME	BEEF FACILITY EXPANSION 2017	CLIENT	FORMAN CREEK FARM
DESIGNED BY	MSA	CHECKED BY	MSA

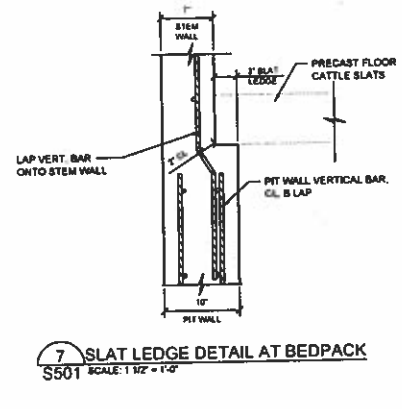
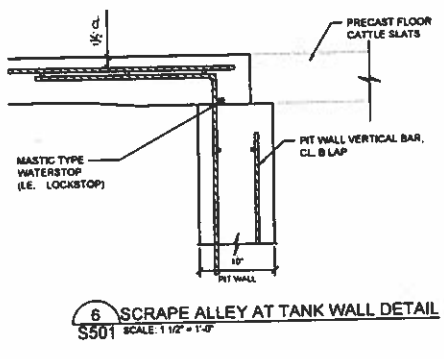
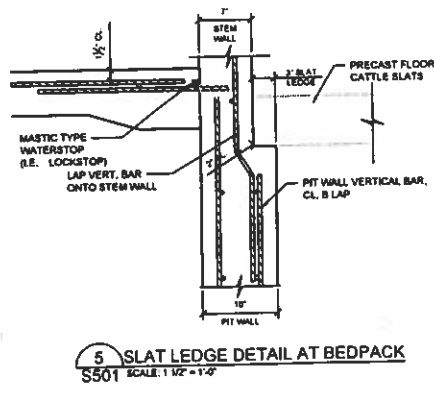
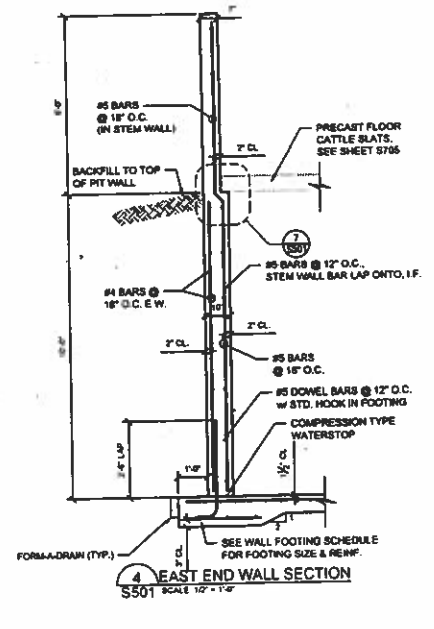
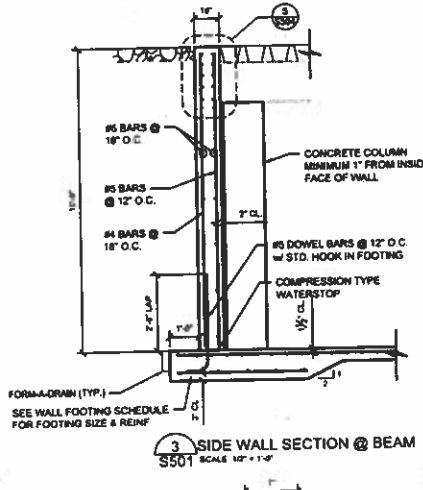
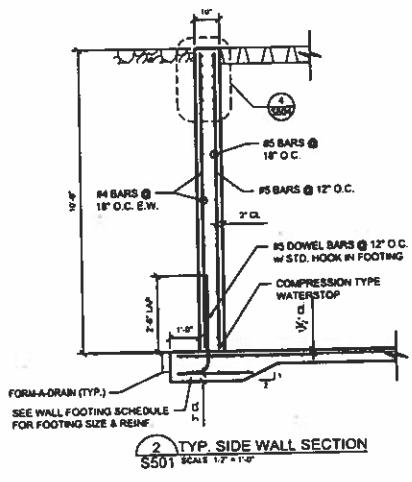
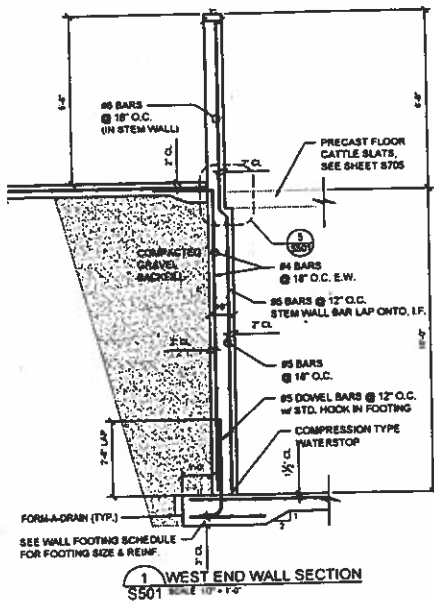
MSA
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2117 Sango Street, Normal, IL 62722
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BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONEDA, IL

CONCRETE SECTIONS

18085000.0
S302

Rec'd 11/28/2018



- SHEET NOTES**
- DRILL AND EPOXY GROUT BARS INTO CONCRETE SLAB OR WALL AS SHOWN. SELECT GROUT MATERIAL TO OBTAIN MINIMUM 800 PSI TENSION AND 500 PSI SHEAR CAPACITY. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL EPOXY GROUT MATERIAL AND INSTALLATION REQUIREMENTS.
 - ANY SPALLING, HONEYCOMBING OR DELAMINATION OF THE CONCRETE ALONG THE SLAT BEARING LEDGE SHALL BE REPAIRED USING AN EPOXY REPAIR MORTAR TO MAINTAIN A FULL 7" WIDE BEARING LEDGE FOR THE SLATS.
 - NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE PERMITTED IN THE PIT WALLS BELOW THE TOP OF SLAT ELEVATION.
 - SEE SHEET S701 FOR TYPICAL CORNER BAR AND LAP SPLICE DETAILS.
 - SEE SHEET S201/202 FOR BASE SLAB THICKNESS AND REINFORCEMENT.
 - INCREASE CLEARANCE TO SLAB REINF. BELOW EXTERIOR WALLS AS NECESSARY FOR PROPER PLACEMENT OF WATERSTOP.

FOR AGENCY REVIEW

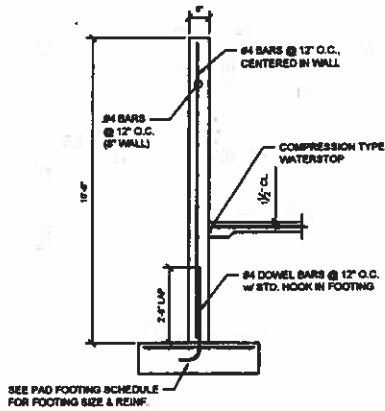
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PROJECT DATE	09/2017	DESIGNED BY	J. OURA	CHECKED BY	JEO	
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MSA

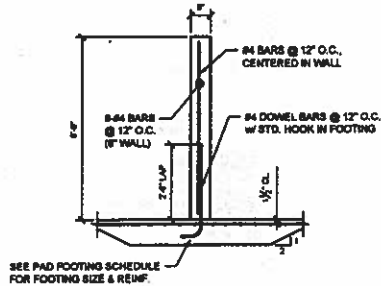
ARCHITECTURE | ENGINEERING | ENVIRONMENTAL
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3117 State Street, Northbrook, IL 60062
(847) 440-2500 | (847) 332-6371
www.msa-ps.com

BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONEDA, IL

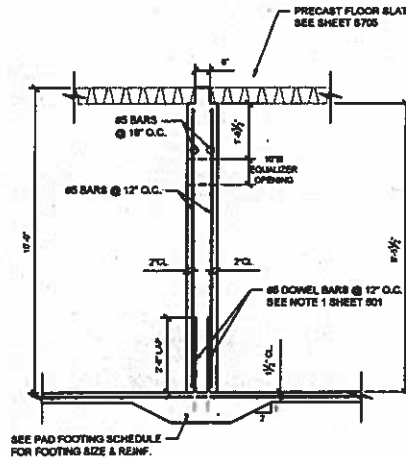
CONCRETE DETAILS	180895000.0 S501
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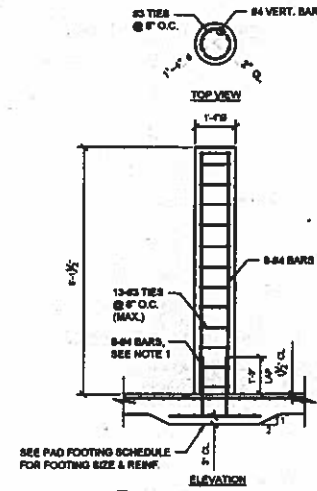
1 OUTER ALLEY WALL SECTION
S502 SCALE 1/2" = 1'-0"



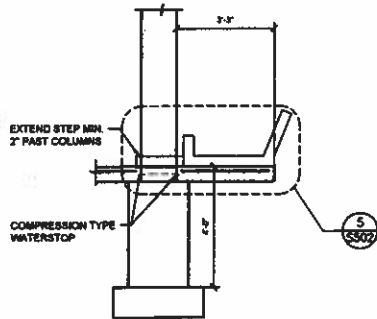
2 BEDPACK DIVIDER WALL SECTION
S502 SCALE 1/2" = 1'-0"



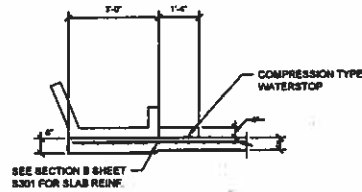
3 PIT DIVIDER WALL SECTION
S502 SCALE 1/2" = 1'-0"



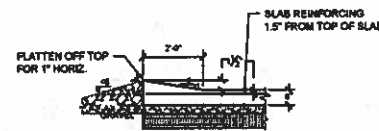
7 TYP. COLUMN DETAIL
S502 SCALE 1/2" = 1'-0"



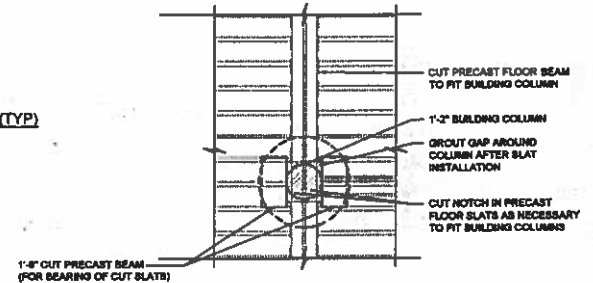
4 BEDPACK FEEDBUNK PAD AT COLUMN
S502 SCALE 1/2" = 1'-0"



5 BEDPACK FEEDBUNK PAD DETAIL (TYP)
S502 SCALE 1/2" = 1'-0"



6 BEDPACK ALLEY MOUNTABLE CURB DETAIL (TYP)
S502 SCALE 1/2" = 1'-0"



8 TYP. CUT SLATS/BEAMS AT BUILDING COLUMN DETAILS
S502 SCALE 1/2" = 1'-0"

FOR AGENCY REVIEW

PROJECT NO.	SCALE	DATE	BY
PROJECT DATE	DESIGNED BY	CHECKED BY	DATE
DATE	SCALE	DATE	BY

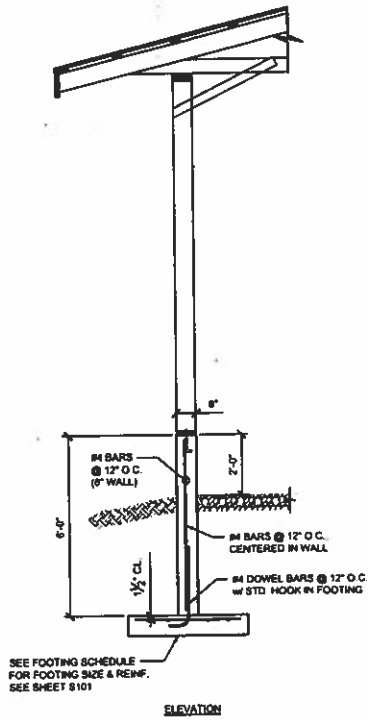
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PLANNING | PLANNING | SURVEYING
3217 Stone Street, Bushwood, IL 61312
(815) 448-8521 (800) 752-6321

BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONEDA, IL

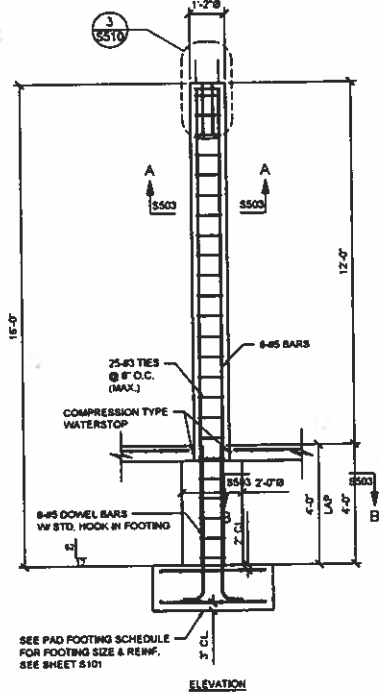
CONCRETE DETAILS

18085000.0
S502

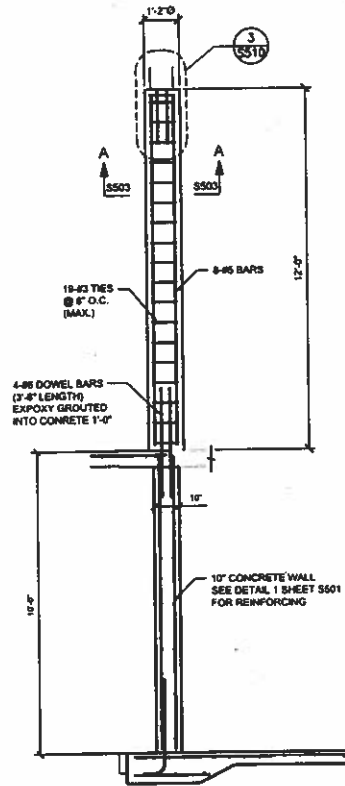
Revised 11/28/2018



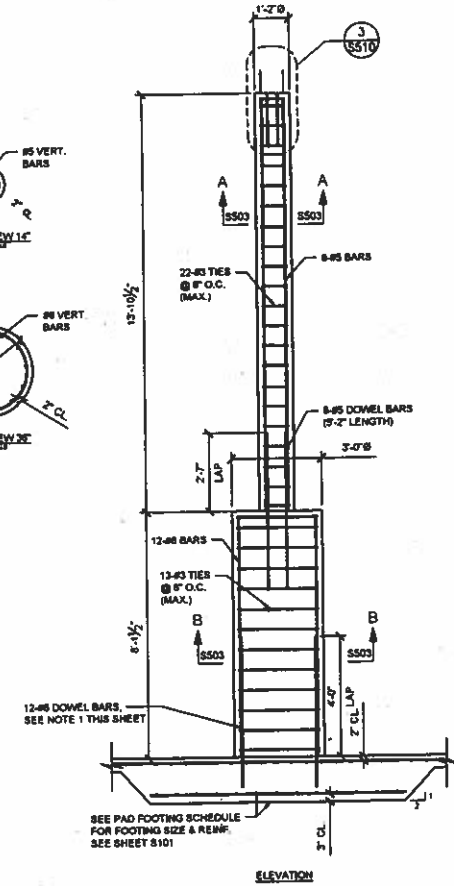
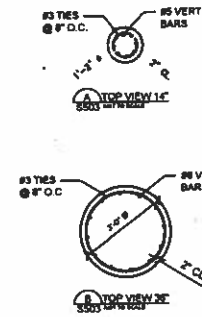
1 NORTH CONCRETE SUPPORT WALL DETAIL
S503 NOT TO SCALE



2 ROOF SUPPORT COLUMN - BEDPACK AREA
S503 NOT TO SCALE



4 ROOF SUPPORT COLUMN CENTERED ON TANK WALL
S503 NOT TO SCALE



3 SOUTH SUPPORT COLUMN - TANK AREA
S503 NOT TO SCALE

REVISIONS

1. CORREL AND EPOXY GROUT BARS 12" INTO CONCRETE SLAB OR WALL AS SHOWN. SELECT EPOXY MATERIAL TO OBTAIN MINIMUM 500 PSI TENSION AND 500 PSI SHEAR CAPACITIES. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL EPOXY GROUT MATERIAL AND INSTALLATION REQUIREMENTS.
2. ANY SPALLING, HONEYCOMBING, OR DELAMINATION OF THE CONCRETE SHALL BE REPAIRED USING AN EPOXY REPAIR MORTAR.
3. SEE SHEET 8701 FOR TYPICAL CORNER BAR AND LAP SPLICE DETAILS.
4. SEE SHEET 8301B302 FOR BASE SLAB THICKNESS AND REINFORCEMENT

FOR AGENCY REVIEW

PROJECT NO.	SCALE	AS SHOWN	NO.	DATE	REVISION
18085000.0	AS SHOWN				
PROJECT DATE	DATE	BY	CHKD	DATE	
P.A.	DATE	BY	CHKD	DATE	

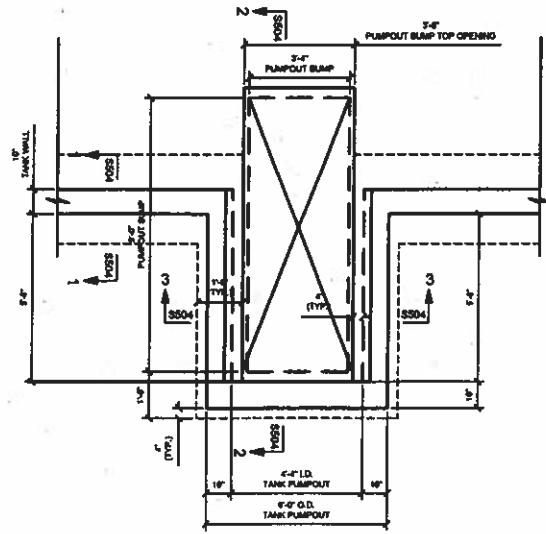


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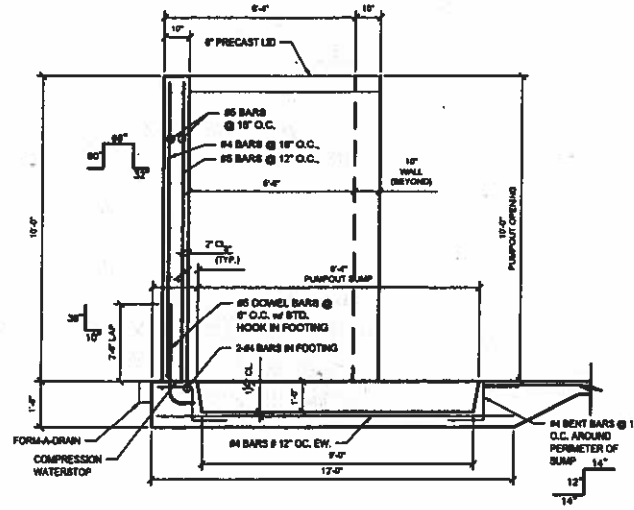
BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONIEDA, IL

CONCRETE ROOF SUPPORTS

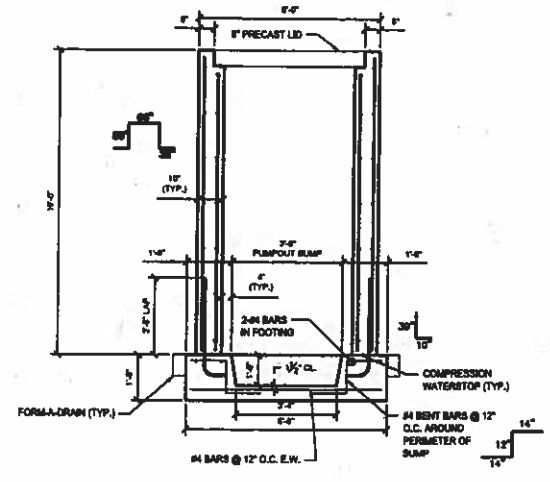
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8503



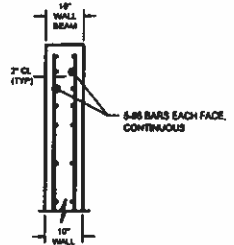
1 TANK PUMPOUT DETAIL - PLAN
S504 SCALE: 1/2" = 1'-0"



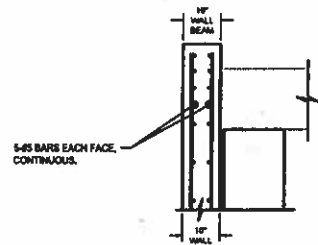
2 TANK PUMPOUT SECTION
S504 SCALE: 1/2" = 1'-0"



3 TANK PUMPOUT SECTION
S504 SCALE: 1/2" = 1'-0"



4 WALL DETAIL BETWEEN BEAMS
S504 SCALE: 3/4" = 1'-0"



5 WALL DETAIL AT BEAMS
S504 SCALE: 3/4" = 1'-0"

SHEET NOTES:

- HORIZONTAL BARS AROUND THE PUMPOUTS MAY BE CONTINUOUS AS DETAILED IN THE BAR DIAGRAM OR MAY CONSIST OF MULTIPLE BARS WITH CLASS B LAP SPLICES. LAPS NEED NOT BE STAGGERED IN PUMPOUT.
- CORNER DETAILS FROM SHEET S701 NEED NOT APPLY AROUND THE PUMPOUTS.
- THE PUMPOUT SLAB AND SUMP PIT SHALL BE POURED MONOLITHICALLY WITH THE REST OF THE SURROUNDING BASE SLAB. THE PUMPOUT WALLS SHALL BE POURED MONOLITHICALLY WITH THE ADJACENT PIT WALLS.
- MAINTAIN MIN. 2" CLEARANCE FROM ENDS OF REINFORCEMENT BARS TO THE FORMED FACE OF CONCRETE WALLS.
- SEE SHEET S706 FOR PRECAST LID DETAILS.

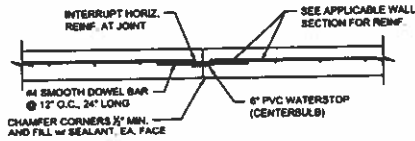
FOR AGENCY REVIEW

PROJECT NO.	18085000.0	SCALE	AS SHOWN	DATE	REVISED
PROJECT NAME		DESIGNED BY	JD		
P.A.		CHECKED BY	JD		
<p>ARCHITECTURE ENGINEERING ENVIRONMENTAL FOUNDING PLANNING SURVEYING 2117 South Street, Birmingham, LA 70223 (504) 446-5521 (800) 732-4321 www.msa.com</p>					
BEEF FACILITY EXPANSION 2017 FORMAN CREEK FARM ONEDA, IL			CONCRETE DETAILS - PUMPOUTS		
					18085000.0 S504

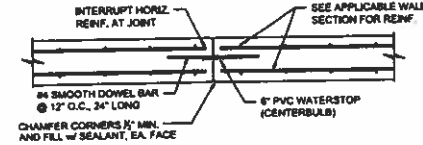
Rec'd 11/28/2018

CONTROL JOINT NOTES

- WALL CONTROL JOINTS SHALL BE ALIGNED WITH THE SLAB CONTROL JOINTS FOR ALL PERIMETER WALLS CONSTRUCTED ABOVE THICKENED SLAB FOOTINGS.
- DO NOT EXTEND REINFORCEMENT THROUGH CONTROL JOINTS UNLESS DETAILED OTHERWISE.
- A PLASTIC BUSHING OR GREENSTRAK SPEED DOWEL MAY BE USED AS AN ALTERNATIVE TO USING A DRESSED SMOOTH DOWEL ACROSS SLAB OR WALL JOINTS.
- SEE DIMENSIONS IN THE PLANS FOR SLAB AND WALL JOINT SPACING. UNLESS DEFINED OTHERWISE, CONTROL JOINTS ALONG THE LENGTH OF A WALL SHALL BE LOCATED NO FURTHER APART THAN 100 FEET.



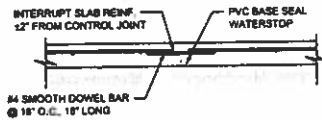
TYP. WALL CONTROL/CONSTRUCTION JOINT DETAIL
SCALE: NONE



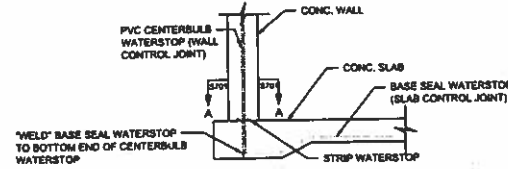
TYP. WALL CONTROL/CONSTRUCTION JOINT DETAIL
SCALE: NONE

WATERSTOP NOTES

- INTERSECT OR JOIN ALL WATERSTOPS TO FORM A CONTINUOUS WATER-TIGHT SEAL IN THE SLABS AND WALLS AROUND THE CONTAINMENT AREA. USE THE WATERSTOP MANUFACTURER'S DETAILS FOR THESE INTERSECTIONS WHERE POSSIBLE.
- INSTALL ALL WATERSTOPS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INCLUDING MINIMUM CLEARANCES.



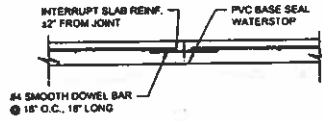
TYP. SLAB CONTROL JOINT DETAIL
SCALE: NONE



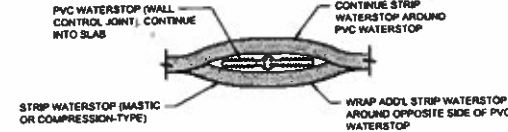
WATERSTOP DETAIL (SLAB-WALL INTERFACE)
SCALE: NONE

REINFORCEMENT NOTES

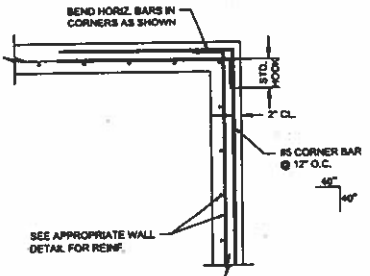
- ALL REINFORCEMENT STEEL SHALL BE CONNECTED TO FORM AN EQUAL POTENTIAL PLANE PER NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS. USE EMBEDDED CONDUITS ACROSS JOINTS WHERE STEEL IS INTERRUPTED.
- ALL REINFORCEMENT BAR SPICES SHALL BE CLASS B LAP SPICES UNLESS NOTED OTHERWISE.
- HORIZONTAL BAR SPICES ALONG THE LENGTH OF WALLS AND SLABS SHALL BE STAGGERED A MINIMUM THREE FEET SUCH THAT NO MORE THAN EVERY THIRD BAR IS SPICED AT ANY ONE LOCATION.
- REINFORCEMENT STEEL SHALL BE TIED TO INTERSECTING BARS AS NECESSARY TO SECURE AGAINST DISPLACEMENT DURING CONCRETE POUR.
- WIRE TIES SHALL BE USED EVERY 12\"/>



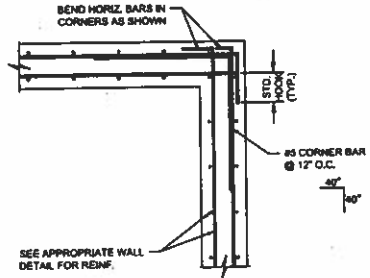
TYP. SLAB CONSTRUCTION JOINT DETAIL
SCALE: NONE



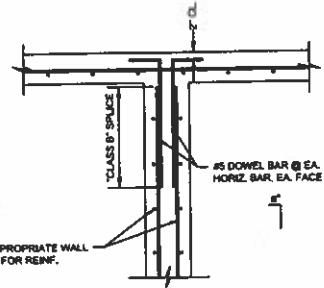
WATERSTOP DETAIL A
SCALE: NONE



WALL CORNER DETAIL
SCALE: NONE



WALL CORNER DETAIL
SCALE: NONE

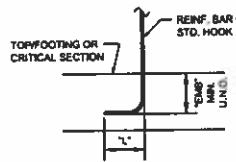


WALL INTERSECTION DETAIL
SCALE: NONE

CLASS B SPICE (1.3 x l _y)*			
BAR SIZE	HORIZONTAL		VERTICAL
	+12\"/>		
#3	18"	25"	18"
#4	25"	32"	25"
#6	31"	40"	31"
#8	37"	48"	37"
#7	54"	70"	54"
#8	62"	80"	62"
#9	70"	91"	70"

* 4000psi CONCRETE

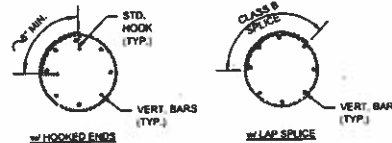
CLASS B SPICE LENGTHS
SCALE: NONE



TYP. 90° (STANDARD) HOOK
SCALE: NONE

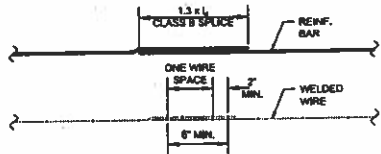
90° HOOK DIMENSIONS			
BAR SIZE	"	"	"
#3	1"	6"	6"
#4	1"	7"	7"
#5	1"	8"	8"
#6	1-1/2"	10"	10"
#7	1-1/2"	11-6"	11-6"
#8	1-1/2"	11-2"	11-2"
#9	1-1/2"	11-2"	11-2"

* 4000psi CONCRETE



CIRCULAR TIE DETAIL
SCALE: NONE

FOR AGENCY REVIEW



TYP. LAP SPICE LENGTHS
SCALE: NONE

PROJECT NO.	ISSUED FOR	SCALE	ALL SHEETS	NO.	DATE	REVISION	BY
12017	FOR AGENCY REVIEW						

MSA ARCHITECTURE | ENGINEERING | ENVIRONMENTAL
PLANNING | PLUMBING | ELECTRICAL
2117 State Street, Bensenville, IL 60122
(630) 445-3383 (630) 721-6321
www.msa-inc.com

BEEF FACILITY EXPANSION 2017
FORMAN CREEK FARM
ONNEA, IL

TYPICAL CONCRETE DETAILS

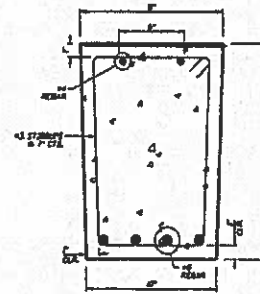
REVISION
18095000.0
SHEET NO.
8/01

FOR AGENCY REVIEW

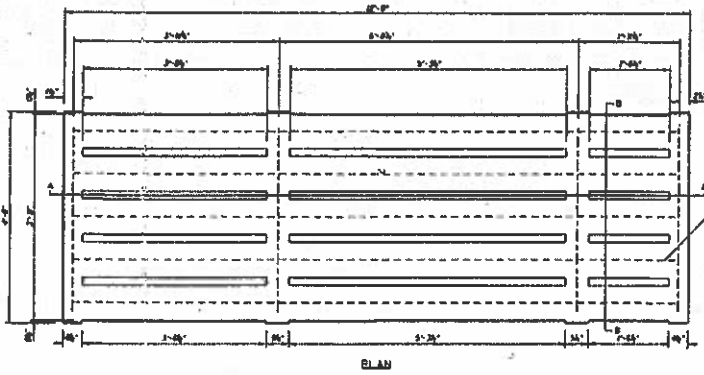


1. TOP REIN - #4 @ 12" O.C.
2. BOT REIN - #4 @ 12" O.C.
3. STIRRUPS - #3 @ 18" O.C.
4. ALL REIN @ 90° TO CONCRETE
5. CHECKER: M.P. - 10/15/19
6. DATE: 10/15/19

1 BEAM ELEVATION
SCALE 1/2" = 1' 0" X 17"

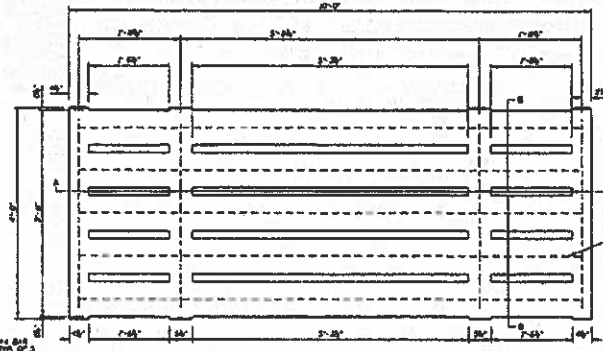


2 BEAM SECTION
SCALE 1/2" = 1' 0" X 17"



1. #4 @ 12" O.C.
2. #4 @ 12" O.C.
3. #4 @ 12" O.C.
4. #4 @ 12" O.C.
5. #4 @ 12" O.C.
6. #4 @ 12" O.C.

3 12' SLAT DETAIL
SCALE 1/2" = 1' 0" X 17"



1. #4 @ 12" O.C.
2. #4 @ 12" O.C.
3. #4 @ 12" O.C.
4. #4 @ 12" O.C.
5. #4 @ 12" O.C.
6. #4 @ 12" O.C.

4 10' SLAT DETAIL
SCALE 1/2" = 1' 0" X 17"



THIS IS TO CERTIFY THAT THE PRECAST BEAM AND SLAT DESCRIBED ABOVE WILL SUPPORT THE LOADS AND STRESS INDICATED ON THIS DRAWING. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS. CONTRACT NO. 18095000.0

NO.	DATE	BY	REVISIONS	REMARKS

DRAWN: M.L.W.
CHECKED: W.A.V.
APPROVED: M.L.W.

WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LUNA, ILLINOIS, 61898
815-278-7612
WAGNERCONSULTAG@MEDIANET.IBID.NFT

CONTACT JILL AT 815 OR 850-892-0123
JILL@JILLDESIGNS.COM
JILL
DESIGNS
CONSTRUCTION
414-578-8888

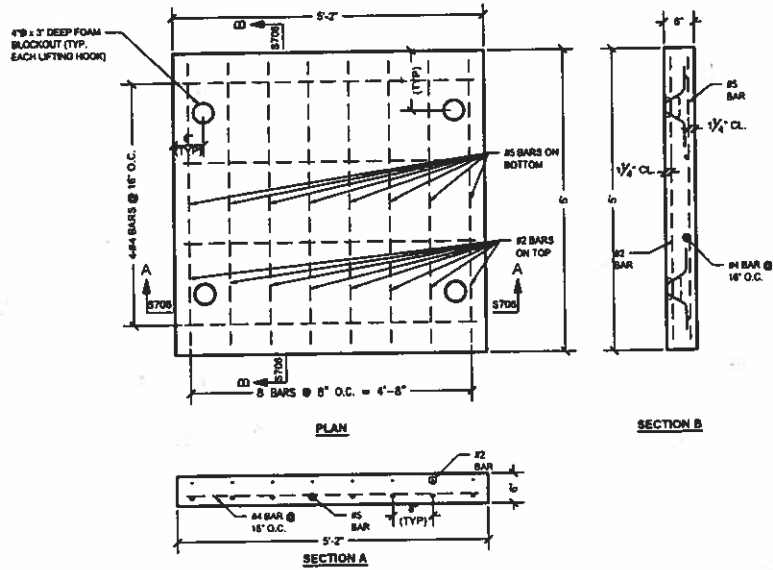
BEAM AND SLAT DETAILS

PROJECT NO. 18095000.0
DATE 08/18/19
SHEET NO. 6
OF 161 SHEETS

PROJECT NO. 18095000.0	ISSUED DATE 08/18/19	DRAWN BY M.L.W.	CHECKED BY W.A.V.	DATE 10/15/19	BY M.L.W.	ARCHITECTURE ENGINEERING ENVIRONMENTAL PLANNING PLANNING SURVEYING 2117 Shaw Street, Bensenville, IL 60015 847.446.8841 (PH) 847.446.8811 www.msa-engineers.com	MSA	BEEF FACILITY EXPANSION 2017 FORMAN CREEK FARM ONEDA, IL	CUSTOM PRECAST - CATTLE SLAT AND BEAM	18095000.0 8/18/19
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Rec'd 11/28/2018

Electronic Filing: Received, Clerk's Office 10/15/2019 **PCB 2020-021**



SOLID PRECAST PUMPOUT COVERS
SIZE 7' - 1'-0"

DESIGN CRITERIA

MANUFACTURER: CUSTOM PRECAST, INC.

CONCRETE STRENGTH: $f_c = 5,000$ psi

REINFORCEMENT: $F_y = 40,000$ psi (ASTM A615, GRADE 60)

WEIGHT: 1634 lbs. (CALCULATED)

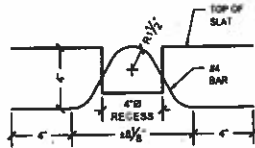
DEAD LOAD: 75 psf (UNIFORM FLOOR LOAD)

LIVE LOAD: 100 psf (UNIFORM FLOOR LOAD)
12,000 lbs. (WHEEL LOAD)

2" MIN. BEARING LENGTH AT EACH END FOR FULL WIDTH OF COVER.

ALL CONCRETE AND REBAR DETAILS SHALL CONFORM TO ACI 318.

MAX. AGGREGATE SIZE = 1"



LIFTING HOOK DETAIL
SIZE 7' - 1'-0"

FOR AGENCY REVIEW

PROJECT NO.	DATE	BY	REVISION

MSA ARCHITECTURE | ENGINEERING | ENVIRONMENTAL
 PLANNING | PLANNING | SURVEYING
 2117 State Street, Burlington, MA 01822
 (503) 443-3551 | (866) 773-4371
 www.msa-us.com

BEEF FACILITY EXPANSION 2017
 FORMAN CREEK FARM
 ONEDA, IL

CUSTOM PRECAST - PUMPOUT COVER

18085000.0
9706

STATE OF ILLINOIS

COUNTY OF SANGAMON

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)
)
)
)

CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that I have served on the date of October 15, 2019, the attached **APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, upon the following persons by causing to be mailed a true copy thereof in an envelope duly addressed, bearing proper first class postage, and deposited in the United States mail at Springfield, Illinois:

Forman Creek Farm
2256 Knox Road 1150 E
Oneida, Illinois 61467

Copies also provided electronically as follows:

Illinois Department of Revenue
via email at REV.PropTaxApp.illinois.gov
101 West Jefferson
P.O. Box 19033
Springfield, Illinois 62794

[Electronic Filing]

Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite. 11-500
Chicago, Illinois 60601

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Jacob H. Smith
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
217.782.5544
217.782.9143 (TDD)

THIS FILING IS SUBMITTED ON RECYCLED PAPER