

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Krogman Farm)
(Property Identification Number) **PCB 19-**
18-33-100-003)) **(Tax Certification)**
)

NOTICE


Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
Post Office Box 19033
Springfield, Illinois 62794

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

Krogman Farm
c/o Chad & Julia Krogman
4784 W. Valley Road
Shannon, Illinois 61078

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**, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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

DATED: September 4, 2018

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

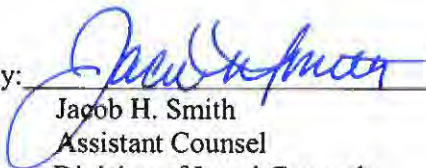
**Krogman Farm
(Property Identification Number
18-33-100-003)**

)
) **PCB 19-**
) **(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: September 4, 2018

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

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Krogman Farm)
(Property Identification Number) **PCB 19-**
18-33-100-003)) **(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 December 27, 2017, the Illinois EPA received a request from Krogman Farm (log number TC-139042, 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:

Krogman Farm
4784 West Valley Road
Shannon, IL 61078

The proposed water pollution control facilities in this request are located in the NW ¼ of Section 33, T26N, R7E of the 4th P.M. in Stephenson County, at the above street address and consist of the following:

Livestock waste management facilities consisting of one concrete manure pit measuring 242.33 ft. x 81.16 ft. x 10 ft. deep) with eight concrete manure pump out pits measuring 6 ft. (length) x 5 ft. (width) x 10 ft. (depth) and the concrete slatted flooring above the entire manure pit.

This livestock waste management facility is used to collect, transport, and/or store livestock waste prior to cropland application, and are further described in Exhibit A.

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2014), 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 (2014), 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 are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the requested tax certification.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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

Dated: September 4, 2018

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



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

Memorandum

To: Charles Gunnarson, Division of Legal Counsel

From: Darin E. LeCrone P.E., Manager, Industrial Unit, Permit Section *DEL*

Date: August 23, 2018

Re: Krogman Farm - Shannon
Recommendation of Tax Certification
Log # TC-139042
BOW ID # W1778030008
Property Identification # 18-33-100-003

The Bureau of Water received a request on December 27, 2017 from Krogman 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:

Krogman Farm
4784 West Valley Road
Shannon, IL 61078

NW 1/4 of Section 33, Township 26-North, Range 7-East of the 4th PM in Stephenson County.

Livestock waste management facilities consisting of one concrete manure pit measuring 242.33 ft. (length) x 81.16 ft. (width) x 10 ft. (depth) with 8 concrete pump out pits measuring 6 ft. (length) x 5 ft. (width) x 10 ft. (depth) and the concrete slatted flooring above the entire 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.

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

DRG:TC-139042_Tax Cert Recommendation_27Dec17.docx

cc: Tax Cert File

4302 N. Main St., Rockford, IL 61103 (815) 987-7760
9511 Harrison St., Des Plaines, IL 60016 (847) 294-4000
595 S. State, Elgin, IL 60123 (847) 608-3131
2125 S. First St., Champaign, IL 61820 (217) 278-5800

2009 Mall St., Collinsville, IL 62234 (618) 346-5120
412 SW Washington St., Suite D, Peoria, IL 61602 (309) 671-3022
2309 W. Main St., Suite 116, Marion, IL 62959 (618) 993-7200
100 W. Randolph, Suite 4-500, Chicago, IL 60601

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 #: W1778030008

Project Name: Krogman Farm

Date application received: 12/27/2017

Reviewer: DRG

Log number: TC-139042

Legal Description:
NW 1/4 of Section 33 Twp: 26-North Range: 7-
East PM: 4th

County: Stephenson

Facility Contact:

Phone: 815 275-2457

Pollution Control Facility Type:

Swine Livestock Waste Management Facility

Property ID: 18-33-100-003

Applicant: Krogman Farm
4784 West Valley Road
Shannon, IL 61078

Facility: Krogman Farm
4784 West Valley Road
Shannon, IL 61078

Date Control Devices installed: 11/20/2017

Application Signature by: Chad Krogman

Title: Owner

Contents of Application: Application Form 3 pages, Plat book diagram, Request cover letter for concrete waste pit, and 6 As-Built construction sheets.

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 concrete manure pit measuring 242.33 ft. (length) x 81.16 ft. (width) x 10 ft. (depth) with 8 concrete pump out pits measuring 6 ft. (length) x 5 ft. (width) x 10 ft. (depth) and the concrete slatted flooring above the entire manure pit.

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

Notes:

Sent Email on 8/8/ 2018 to obtain a process flow diagram. Received email response on 8/15/18 from applicant that included exhibit "Liquid Waste: Flow Diagram"

Nothing follows – DRG - (August 20, 2018)

Gove, Darren

From: Chad Krogman <krogman81@yahoo.com>
Sent: Wednesday, August 15, 2018 9:13 PM
To: Matt Wagner; Gove, Darren
Subject: [External] Re: RE: Illinois EPA Tax certification request for Krogman Farm (Log # TC-139042)
Attachments: Manure FLOW DIAGRAM.pdf

Mr Gove,

Please find the requested diagram for Krogman farm Log # TC-139042 attached below.

Sincerely,

Chad & Julia Krogman

On Monday, August 13, 2018, 4:21:57 PM CDT, Matt Wagner <wagnerconsultag@mediacombb.net> wrote:

Here is what I have for a diagram.

Matthew Wagner, P.E.

Wagner Consulting & Agriculture, LLC.

709 West Oak Street

Lena, Illinois 61048

wagnerconsultag@mediacombb.net

Phone: 815-275-7642

This transmission may contain information that is privileged, confidential and/or exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of the information contained herein (including any reliance thereon) is STRICTLY PROHIBITED. If you received this in error, please notify the sender immediately.

From: Chad Krogman [mailto:krogman81@yahoo.com]
Sent: Wednesday, August 08, 2018 1:59 PM
To: Matt Wagner
Subject: Fw: Illinois EPA Tax certification request for Krogman Farm (Log # TC-139042)

Gove, Darren

From: Gove, Darren
Sent: Wednesday, August 08, 2018 1:11 PM
To: 'krogman81@yahoo.com'
Subject: Illinois EPA Tax certification request for Krogman Farm (Log # TC-139042)
Attachments: Process flow diagram example.pdf

Dear Applicant,

Your tax certification request received by the Agency on December 27, 2017 is being reviewed by the Agency. Please provide the following information to allow the Agency to continue reviewing you request:

- Provide a simple process flow diagram illustrating the waste generation, pollution control and disposal/land application processes associated with the facility. The attached PDF shows an example of a process flow diagram to assist you.

The above information should be completed and submitted to the Agency within 30 days to allow the review to be continue. All correspondence must contain the Log number provided in the subject line of this email. . If you have any questions pertaining to this email please respond to this email or call me at the number provided below.

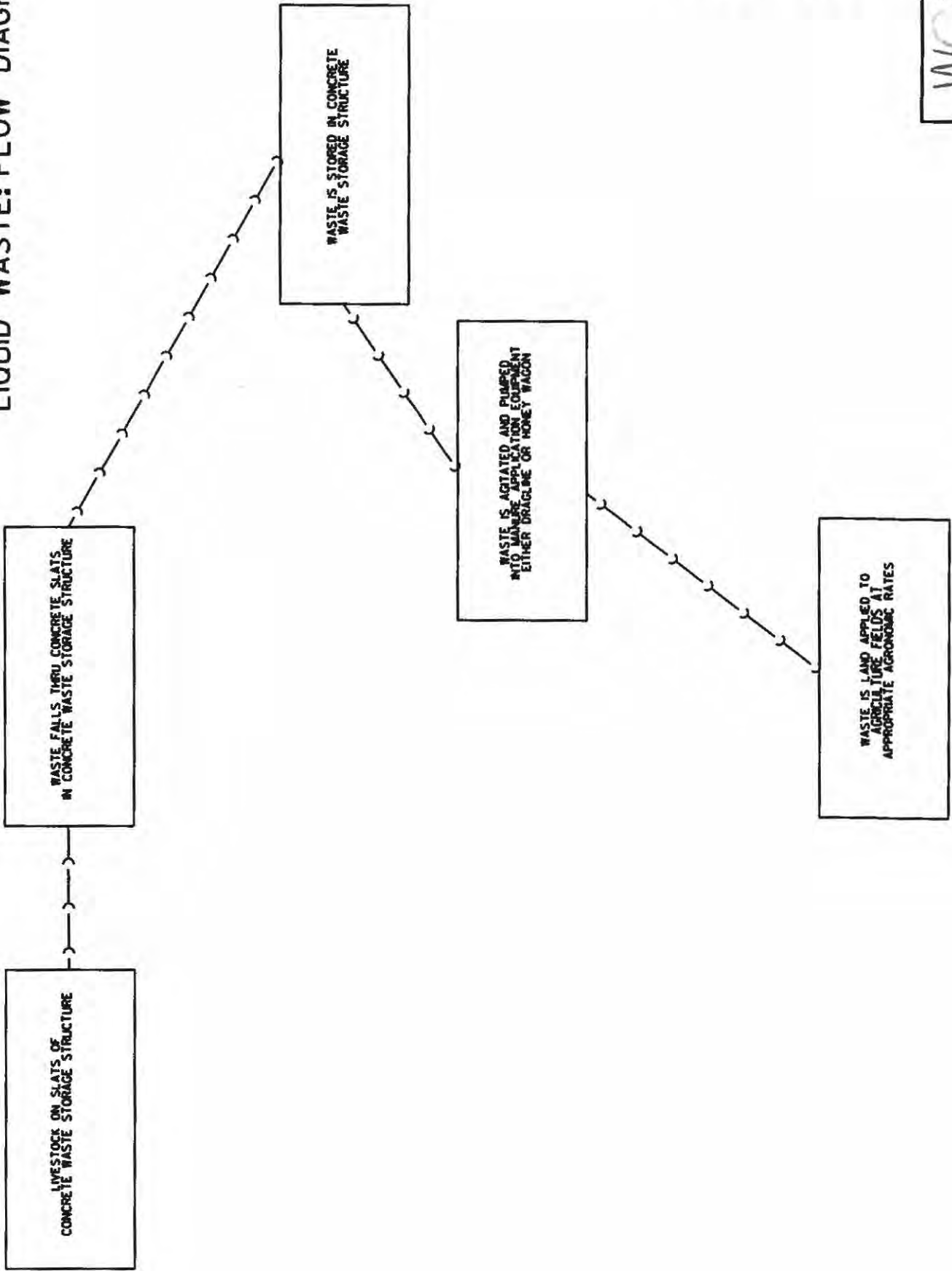
Sincerely,

Darren Gove
Division of Water Pollution Control, Permit Section
Illinois EPA
1021 N. Grand Ave. East
PO Box 19276
Springfield, IL 62794-9276
ph. 217/782-0610
fax 217/785-1225

Rec'd 8/15/18



LIQUID WASTE: FLOW DIAGRAM





TC-139042

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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:

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

RECEIVED
 DEC 27 2017
 IEPA
 DIVISION OF WATER POLLUTION CONTROL

I. Applicant Information:

Company Name: <u>Krogman Farm</u>	Person to Contact _____
Person Authorized to Receive Certification: <u>Chad & Julia Krogman</u>	for Additional Details: <u>Same</u>
Street Address: <u>4784 W. Valley Road</u>	Street Address: _____
City: <u>Shannon</u> State: <u>IL</u>	City: _____ State: _____
Zip: <u>61078</u> Phone: <u>815-275-2457</u>	Zip: _____ Phone: _____
Email Address: <u>krogman81@yahoo.com</u>	Email Address: _____

II. Facility Information:

Facility Location: Quarter Section: NW 33 Township: 26-North Range: 7-East
 Municipality: Shannon Township: Florence

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

Address: 4784 West Valley Road City: Shannon
 State: IL Zip Code: 61078 County: Stephenson Book Number: _____

Property Index Number: 18-33-100-003

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:

Raising of hogs with slatted floor confinement manure storage pit underneath.

Permit Information:

WPC Construction Permit Number: <u>N/A</u>	Date Issued: _____
NPDES Permit Number: <u>N/A</u>	Date Issued: _____ Exp. Date: _____
APC Construction Permit Number: <u>N/A</u>	Date Issued: _____
APC Operating Permit Number: <u>N/A</u>	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.

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):

Slatted floor confinement building - 241'4" x 81'2"

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

The facility provides for waste storage for the manure laden wastewater until the waste is land applied at the appropriate agronomic rates.

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).

The Livestock Management Facilities Act and the Natural Resource Conservation Service Agency Waste Storage Facility Practice Code (313) were met in regards to the pollution control devices that were installed.

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
Swine manure	Liquid	Slatted floor confinement pit
Washdown water	Liquid	Slatted floor confinement pit

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: November 20, 2017

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

December 7, 2017

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))

Chad Krogman

Printed Name:

owner

Title:

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

Chad Krogman

Signature:

12/18/17

Date:

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DEC 27 2017

IEPA
BOW/WPC/PERMIT SECTION



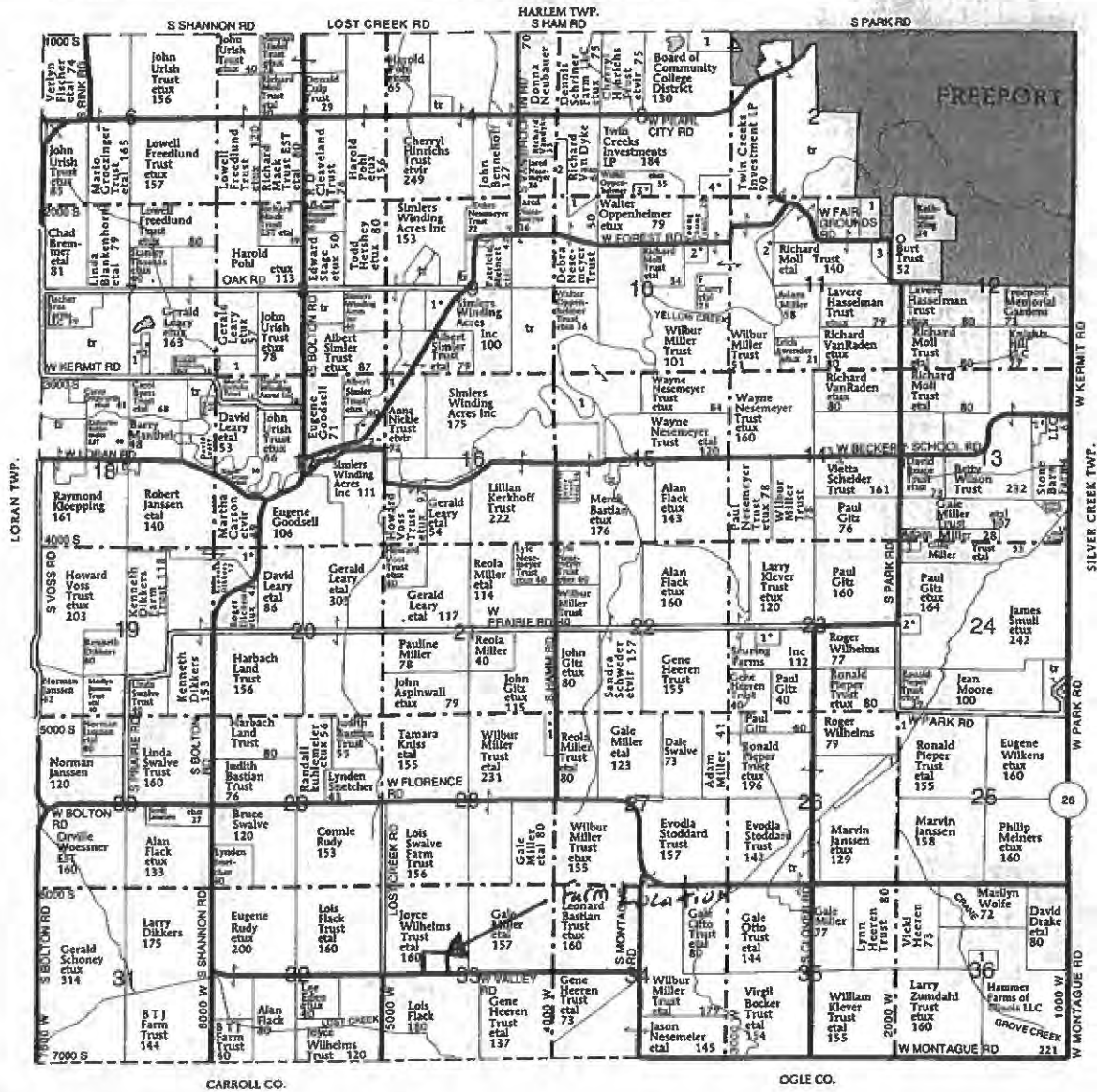
QUESTIONS, UPDATES
OR TO PURCHASE BOOKS AND MAPS
E-MAIL US AT:
info@farmandhomepublishers.com



T-26-N

FLORENCE PLAT

R-7-E



FLORENCE TOWNSHIP

SECTION 3

1. Freeport School District 8
2. Neesemeyer, Jared 10
3. Hollister, Curtis 6
4. Thompson Trust, Michael 12

SECTION 7

1. Blankenhorn, Donald 5
2. Rawleigh, Randall 8

SECTION 8

1. DeVries Trust, Marilyn 15

SECTION 9

1. Simler Trust, Albert 14

SECTION 10

1. Van Dyke, Richard 7
2. Curry, Franklin 6

SECTION 11

1. Knutson, Lana 22
2. Moll, Kirk 12
3. Ardis Trust, Burt 16

SECTION 13

1. Reed, John 5

SECTION 15

1. Simlers Winding Acres Inc 14

SECTION 16

1. Stramaglia, Steve 6

SECTION 17

1. Greenfield, Gary 15
2. Nickle Trust, Anna 12

SECTION 20

1. Krell, Larry 11

SECTION 23

1. Harnish, Carla 8

SECTION 24

1. Miller, Adam 7
2. Gitz, Stephen 7

SECTION 25

1. Nieman, Jacqueline 6

SECTION 26

1. Pieper, Ronald 12

SECTION 28

1. Chlebos, John 9

SECTION 36

1. Mittelsteadt, Kirk 8



Wagner Consulting & Agriculture, LLC.
709 West Oak Street
Lena, Illinois 61048
wagnerconsultag@mediacombb.net
815-275-7642

December 18, 2017

Illinois EPA
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

RECEIVED
DEC 27 2017
IEPA
BOW/WPC/PERMIT SECTION

Attn: Al Keller, Permit Section
Permit Section

Re: Tax Certification for Livestock Waste Management Facilities

To Al Keller:

On behalf of Krogman farm, we are submitting the tax certification for the recently constructed livestock waste management facility. The facility consists of concrete waste storage structure with outside pit wall dimensions of 241'4" x 81'2" x 10'. We are also including a copy of the as-built construction drawings for the project and plat book.

If you should have any questions or require additional information, please feel free to call me at 815-275-7642.

Sincerely,

WAGNER CONSULTING & AGRICULTURE, LLC.

BY Matthew Wagner
Matthew Wagner, P.E.

MW:aw

Encl.

cc: Krogman Farm w/ encl.
File

PROPOSED HOG CONFINEMENT BUILDING KROGMAN FARMS SHANNON, ILLINOIS NW 1/4 SECTION 33, T26N, R7E, 4TH P.M.

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET AND LOCATION MAP	1
CIVIL SITE PLAN	2
CONTROL AND CONSTRUCTION JOINT LOCATIONS	3
PRECISION STRUCTURES, INC. - CONCRETE LAYOUT	4
PRECISION STRUCTURES, INC. - CONCRETE DETAILS	5
ADDITIONAL CONCRETE SPECIFICATIONS	6
LESTER BUILDING DRAWINGS	1-18

LEGEND

	EDGE OF BUILDING
	PROPOSED GRAVEL ROADWAY
	PERIMETER DRAIN TILE
	ROADWAY CENTERLINE

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF, THE SUBSURFACE DRAIN (606) AND WASTE STORAGE FACILITY (313) HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ILLINOIS TECHNICAL STANDARDS AND SPECIFICATIONS FOR SUBSURFACE DRAIN (606) AND WASTE STORAGE FACILITY (313).

Matthew L. Wagner 10-25-17



PROJECT LOCATION MAP

GENERAL NOTES

FOR DETAILED CONCRETE DRAWINGS, CONTRACTOR SHALL REFERENCE DRAWINGS DESIGNED BY PRECISION STRUCTURES, INC.

ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE OF THE OWNER. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.

THE CONTRACTOR, BY AGREEING TO PERFORM THE WORK, AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, ALL AGENTS AND ASSIGNS OF THOSE PARTIES, FROM ALL SUITS AND CLAIMS ARISING OUT OF THE PERFORMANCE OF SAID WORK, AND FURTHER AGREES TO DEFEND OR OTHERWISE PAY ALL LEGAL FEES ARISING OUT OF THE DEFENSE OF SAID PARTIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE "APPROVED" ENGINEERING PLANS. THE FULL RESPONSIBILITY FOR KEEPING ALIGNMENTS AND GRADES SHALL REST UPON THE CONTRACTOR.

ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECORDED SHOWING SIZE, LOCATION, AND DEPTH BY CONTRACTOR AND SHALL BE RECONNECTED OR RELOCATED. THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

IF MORE THAN 1 ACRE OF LAND AREA IS TO BE DISTURBED AS PART OF THE CONSTRUCTION OF THE HOG BUILDINGS, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A NOTICE OF INTENT TO CONSTRUCT FOR GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION SITE ACTIVITIES THRU THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. ALSO AS PART OF THIS REQUIREMENT, THE CONTRACTOR SHALL DEVELOP AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN.

ALL DRAINAGE STRUCTURES, INLET PIPES, AND ADJACENT ROADWAYS SHALL BE KEPT FREE AND CLEAN OF DIRT AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL NOT SPILL AND LEAVE DIRT ON ADJACENT PAVEMENTS. DIRT IS DEPOSITED ON ADJACENT PAVEMENTS, REMOVE THE DIRT AND CLEAN THE PAVEMENTS AT THE END OF EACH CONSTRUCTION DAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE END OF EACH WORKING DAY. EXCESS EXCAVATED MATERIAL SHALL BE RESPIRED THRU THE SITE AND BE REGRADED AND RESEDED.

THE SUBGRADE OF THE PAVEMENT AND BUILDING AREA SHALL BE FREE OF UNSUITABLE MATERIAL AND BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR SOIL BEARING CAPACITY FOR THE HOG BUILDING DENSITY. IS REQUIRED TO MEET A MINIMUM OF 2,500 PSF. ANY ADDITIONAL EXCAVATION TO REMOVE UNSUITABLE MATERIALS FROM THESE AREAS AND GRANULAR MATERIAL REQUIRED TO BRING TO THE APPROPRIATE GRADES SHALL BE INCIDENTAL TO THE PROJECT.

PROPERTY CORNERS THAT ARE ENCOUNTERED SHALL BE PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR.

THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL BENCHMARKS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

ELEVATIONS SHOWN ON THE PLANS REFERENCE U.S.G.S. DATUM.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UTILITIES PRIOR TO EXCAVATION AND SHALL HAND DIG AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING LOCATION OF EXISTING UTILITIES.

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
ENVELOPED CORRUGATED PLASTIC PIPE (ICPP) SINGLE WALL, <= 6 IN	L.F.	885
CONCRETE TANK OPEN TOP, >= 80,000 CU FT STORAGE	C.F.	153,924

REVISIONS				DRAWN
NO.	DATE	BY	REMARKS	M.L.W.
				CHECKED
				A.A.W.
				APPROVED
				M.L.W.

W

WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LENA, ILLINOIS, 61048
815-273-7642
WAGNERCONSULTAG@MEDIACOMBB.NET

CONTACT JULIE AT 811 OR 800-892-0123
With the following:
County: _____
City/Township: _____
Sec & 1/4 Sec No.: _____
48 HOURS (2 working days) BEFORE YOU DIG

KROGMAN FARM
4784 WEST VALLEY ROAD
SHANNON, ILLINOIS 61078
COVER SHEET AND LOCATION MAP

PROJECT NO. 12W17
DATE 10/25/17
SHEET NO. 1
OF 124 SHEETS

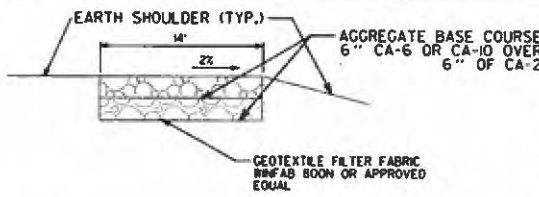
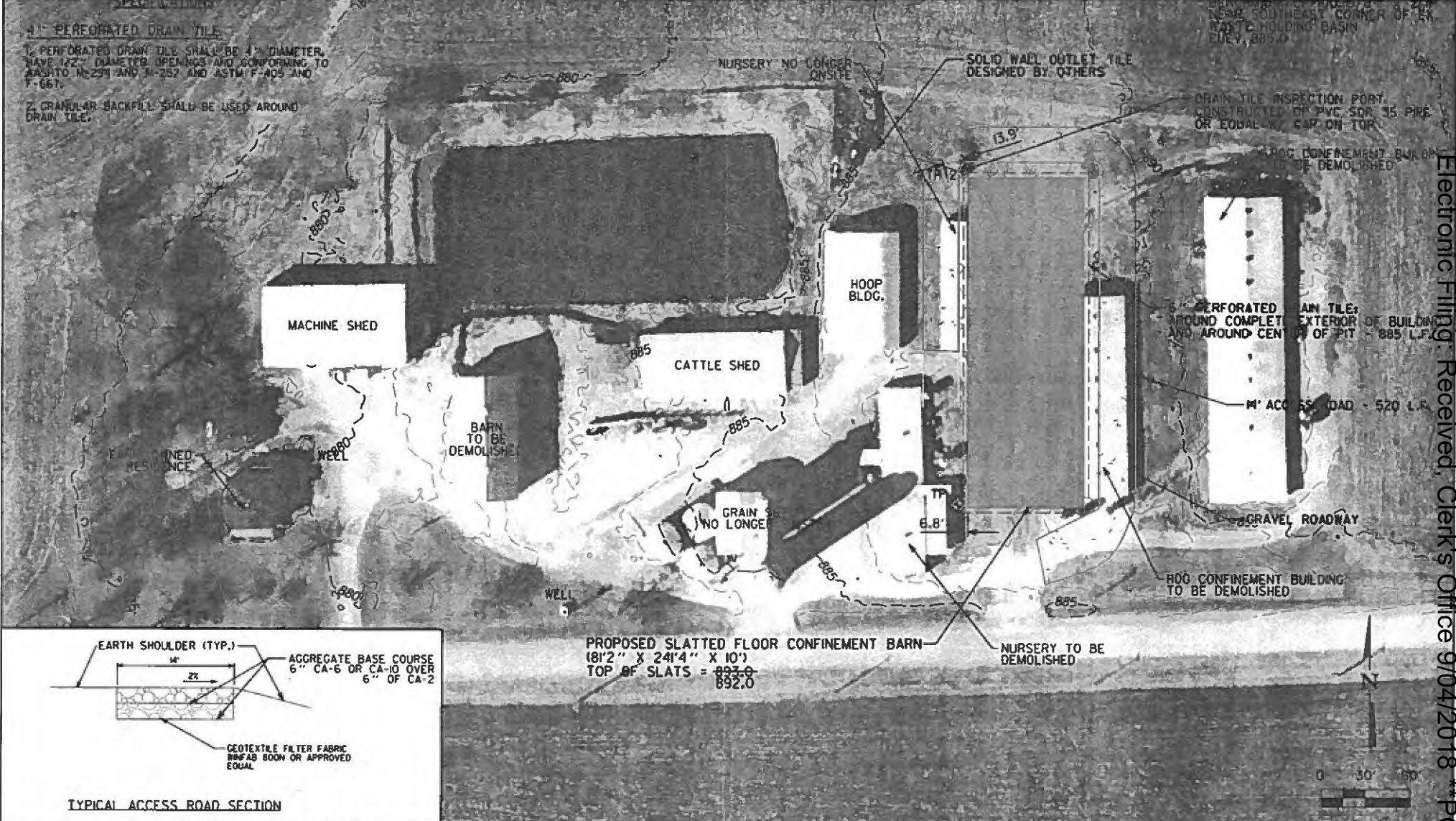
Electronic Filing: Received Clerk's Office 9/04/2018 **PCB 2019 056**

1" PERFORATED DRAIN TILE

1. PERFORATED DRAIN TILE SHALL BE 4" DIAMETER, HAVE 1/2" DIAMETER OPENINGS AND CONFORMING TO ASTM M-291 AND M-252 AND ASTM F-405 AND F-661.

2. GRANULAR BACKFILL SHALL BE USED AROUND DRAIN TILE.

LIBRARY OF PHOTOGRAPHS
NEAR SOUTHEAST CORNER OF EX
WATER HOLDING BASIN
ELEV. 885.0



TYPICAL ACCESS ROAD SECTION

REVISIONS			
NO.	DATE	BY	REMARKS

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



WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LENA, ILLINOIS, 61048
815-275-7642
WAGNERCONSULTAG@MEDIACOMBB.NET

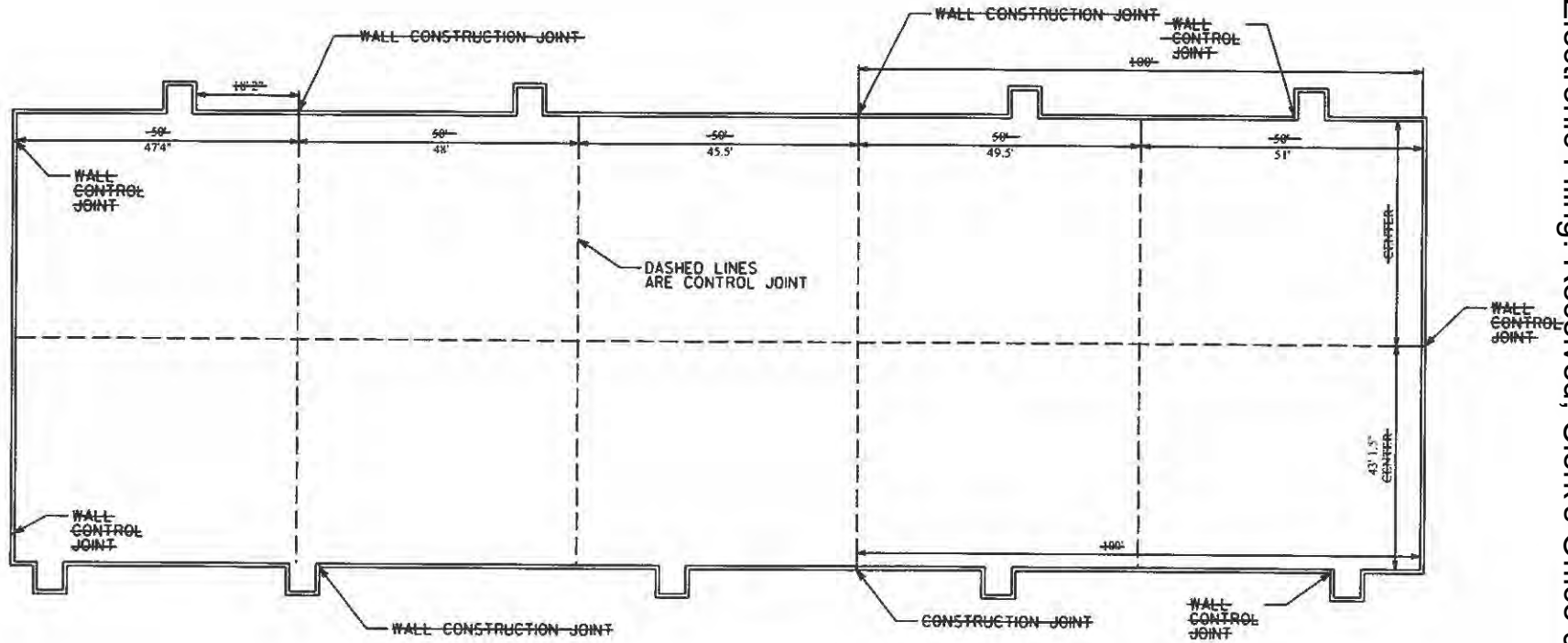
CONTACT JULIE AT 811 OR 800-882-0123
With the following:
County: _____
City/Township: _____
Sec & 1/4 Sec No: _____
48 HOURS (2 working days) BEFORE YOU DIG

KROGMAN FARM
4784 WEST VALLEY ROAD
SHANNON, ILLINOIS 61078

CIVIL SITE PLAN

PROJECT NO.
12W17
DATE
10/25/17
SHEET NO.
2
OF 1241 SHEETS

Electronic Filing: Received, Clerk's Office 9/10/2018 **PCB 2019-056**



REVISIONS			
NO.	DATE	BY	REMARKS

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

W *A*

WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LENA, ILLINOIS, 61048
815-275-7642
WAGNERCONSULTAG@MEDIACOMBB.NET

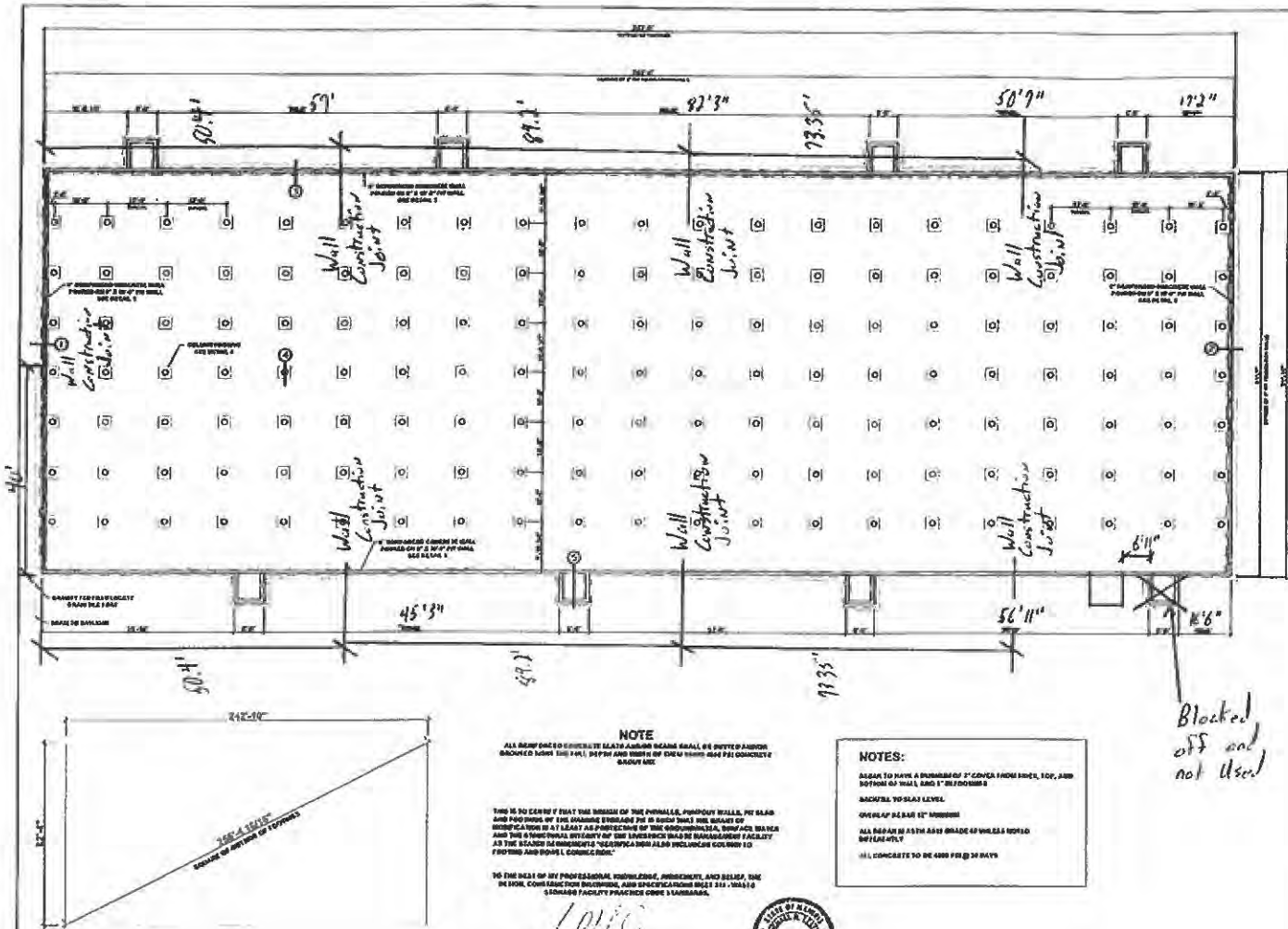
CONTACT JULIE AT 811 OR 800-892-0123
With the following:
County: _____
City/Township: _____
Sec 1, 1/4 Sec: No. _____
48 HOURS (2 working days) BEFORE YOU DIG



KROGMAN FARM
4784 WEST VALLEY ROAD
SHANNON, ILLINOIS 61078

CONTROL AND CONSTRUCTION JOINT LOCATIONS

PROJECT NO.
12W17
DATE
10/25/17
SHEET NO.
3
OF (24) SHEETS



- CONSTRUCTION NOTES:**
- DO NOT ALLOW HEAVY EQUIPMENT WITHIN 1' OF PER WALLS EXCEPT AT PUMP-OUTS.
 - ANCHOR BOLTS - ALL ANCHOR BOLTS SHALL BE PLACED IN FRESH CONCRETE AND POSITIONED AS REQUIRED BY FRAMED CONTRACTOR. DRILLED-IN OR WEDGE ANCHORS ARE NOT ALLOWED.
 - EXCAVATION & BACKFILL - FOOTING ARE DESIGNED FOR MINIMUM SOIL BEARING CAPACITY = 2300 LB/SQ FT. CONTRACTOR SHALL OVER EXCAVATE AND PLACE & COMPACT SUITABLE FOOTING MATERIAL AS REQUIRED TO ASSURE MINIMUM SOIL BEARING CAPACITY IS ATTAINED. BACKFILL SHALL BE GRANULAR & FREE DRAINING. BACKFILL ONLY AFTER PRECAST GANG SLATS ARE PLACED.
 - REINFORCING STEEL - FABRICATE AND PLACE IN ACCORDANCE WITH A.C.I. 318-11 STEEL CONCRETE. MINIMUM 28 DAY COMPRESSIVE STRENGTH: FOOTINGS & FIT FLOOR 4000 P.S.I. WALLS & COLLINGS 4000 P.S.I. MIX DESIGN USING FLY ASH SHALL BE CLASS "C" ONLY. MAXIMUM FLY ASH CONTENT 50%. EXTRINSIC AIR CONTENT 5% to 7%. MAXIMUM SLUMP 4 to 5". MIX, PLACE, CURE AND PROTECT CONCRETE IN ACCORDANCE WITH A.C.I. 318-11. INSULATE FORMS & COVER CONCRETE AS REQUIRED TO PROTECT FROM TEMPERATURES BELOW 40° F.
 - WATERLINES - WATER LINES SHALL NOT PENETRATE THE WALL OR FLOOR OF THE LIVESTOCK WASTE HOLDING BARBER FACILITY BELOW SLAT LEVEL.
 - WATERSTOP - WATERSTOP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - JOINTS - NO JOINTS SHALL BE PLACED WITHIN 8 FEET OF PUMP OUT PORTS. MAXIMUM SLAB JOINT SPACING = 50'. MAXIMUM WALL JOINT SPACING = 100'.

NOTE
ALL REINFORCED CONCRETE SLAB ANCHOR BEARS SHALL BE EITHER ANCHOR BROADCAST WITH THE WALL OR WITHIN 8 INCHES FROM THE WALL CONCRETE SHOWN HERE.

THIS IS TO CERTIFY THAT THE DESIGN OF THE FORMS, PUMP-OUT WALLS, FIT SLABS AND FOOTINGS BY THE ISSUING ENGINEER IS IN ACCORDANCE WITH THE STATE OF MINNESOTA IS AT LEAST AS PROTECTIVE OF THE GOODWILL, REPUTATION, INTERESTS AND THE PERSONAL SAFETY OF THE LIVESTOCK WASTE HOLDING FACILITY AS THE DESIGN OR SPECIFICATIONS FOR THE FACILITY ALSO INCLUDES COLLING TO FOOTING AND WALLS CONNECTIONS.

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF, THE DESIGN CONFORMS WITH ALL APPLICABLE CODES AND SPECIFICATIONS UNDER THE MINNESOTA ENGINEERING PROFESSIONAL PRACTICE CODE & REGULATIONS.

MLC
MICHAEL R. LESLIE, P.E., S.E.



NOTES:

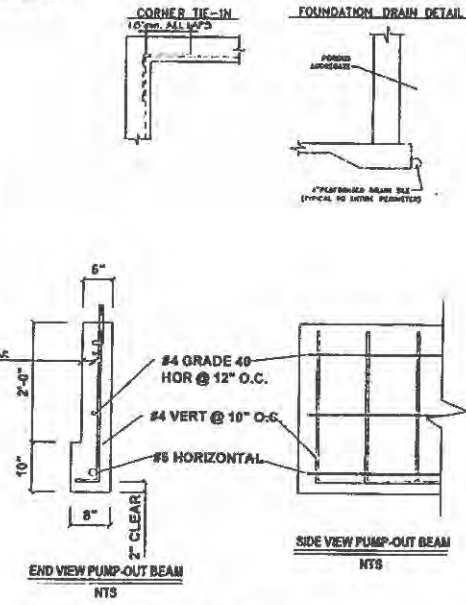
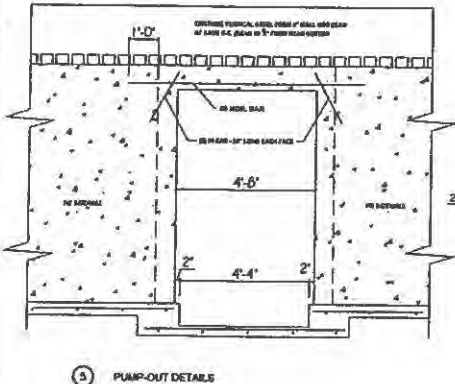
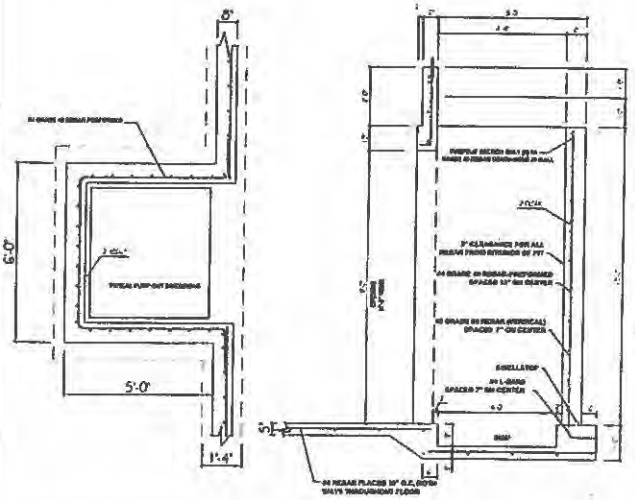
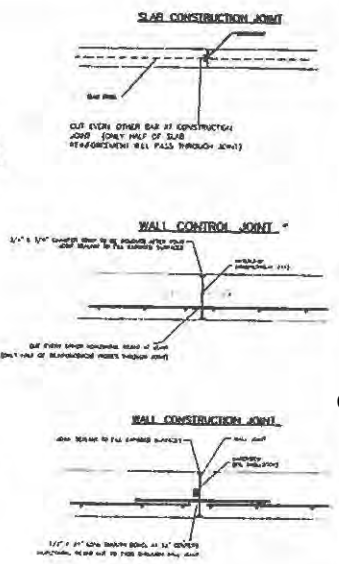
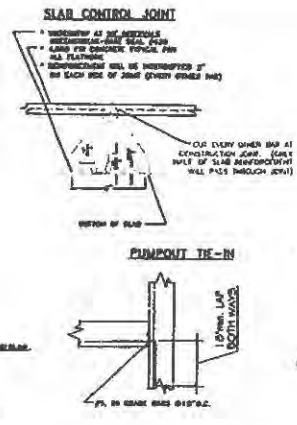
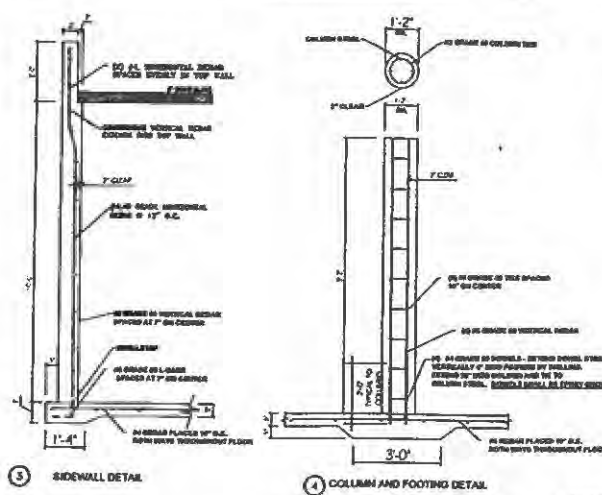
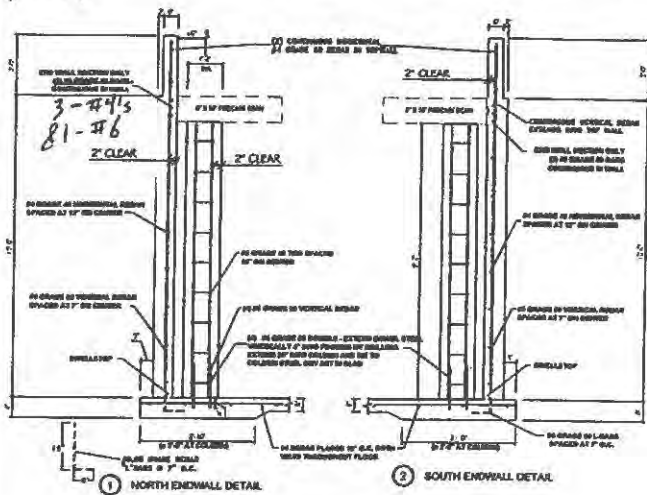
- ASAP TO HAVE A MINIMUM OF 2" COVER FROM SIDES, TOP, AND BOTTOM OF WALL AND 1" FROM CORNERS
- BACKFILL TO SLAB LEVEL
- OVERLAP REBAR 12" MINIMUM
- ALL REBAR IN ASTM A618 GRADE 60 UNLESS NOTED OTHERWISE
- ALL CONCRETE TO BE 4000 PSI @ 28 DAYS

Blocked off and not used

NOTES

- 4" THICK PRECAST SLATS
- INSTALL ANCHOR BOLTS AS SHOWN IN DETAIL.
- LAYOUT OF SIDEWALL ANCHOR BOLTS MUST BE MEASURED FROM THE SAME END OF THE BUILDING
- USE STABLES STEEL ANCHOR BOLTS ONLY (PROVIDED BY F24)

REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY	DATE	THE IDEAS, DESIGNS AND DRAWINGS REPRESENTED HERE ARE THE SOLE PROPERTY OF PRECISION STRUCTURES INCORPORATED. REPRODUCTION OR USE, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT AUTHORIZATION FROM PRECISION STRUCTURES INCORPORATED IS PROHIBITED.		2450 YEARS TO FINISH FACILITY FOR CHAD KROGGAN PRECISION STRUCTURES INC 1284 1ST AVE NW, WYLLMAN, MN (763) 446-9000							
1284-CD	CONCRETE DETAILS	A	RELATED COMPASS AND REVISED ALLOWABLE BEARING CAPACITY FROM 2000PSF TO 2300PSF	MLR	01/2017				COPYRIGHT 2017 PRECISION STRUCTURES INCORPORATED. ERRORS ARE SUBJECT TO CHANGE	<table border="1"> <tr> <td>DATE</td> <td>SCALE</td> <td>STATUS</td> <td>BY</td> </tr> <tr> <td>1/18</td> <td>1/8" = 1'-0"</td> <td>ISSUED</td> <td>MLR</td> </tr> </table>	DATE	SCALE	STATUS	BY	1/18
DATE	SCALE	STATUS	BY												
1/18	1/8" = 1'-0"	ISSUED	MLR												



REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY	DATE
1788-C	CONCRETE LAYOUT	A	ADDED CONCRETE PITWALLS BACKFILL DETAIL	BLM	02/27/17
		B	SHOWED SMALL STOP TO MARKING SIZE OF REBAR AND PROPERLY LABELED NORTH & SOUTH END WALLS	BLM	01/29/17

THE IDEAS, DESIGNS AND DRAWINGS REPRESENTED HERE ARE THE SOLE PROPERTY OF PRECISION STRUCTURES INCORPORATED. REPRODUCTION OR USE, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT AUTHORIZATION FROM PRECISION STRUCTURES INCORPORATED IS PROHIBITED.

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2450 WEAN TO FINISH FACILITY FOR CHAD KROGMAN

PRECISION STRUCTURES INC
 1204 1ST AVE NORTH, WELLSVILLE, OHIO 43081

DATE: 02/27/17
 SCALE: 1/4" = 1'-0"
 SHEET: 17 OF 20
 PROJECT: 1788-C

CONCRETE SPECIFICATIONS

THE FOLLOWING TECHNICAL SPECIFICATIONS SHALL BE FOLLOWED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY, COMPLETENESS, AND COMPLIANCE STATUS OF THE FINAL INSTALLATION. STANDARDS OF THE FOLLOWING ASSOCIATIONS OR ORGANIZATIONS SHALL BE FOLLOWED AND APPLIED AS MINIMUM REQUIREMENTS:

- ACI AMERICAN CONCRETE INSTITUTE
- ASTM AMERICAN SOCIETY OF TESTING METHODS
- CRSI CONCRETE REINFORCING STEEL INSTITUTE
- MWPS MIDWEST PLAN SERVICE 36
- NEW NATIONAL ENGINEERING HANDBOOK (210-VI-NEN, JANUARY 2009)

IN THE CASE OF A CONFLICT BETWEEN THESE SPECIFICATIONS AND ANY OF THE AFORE MENTIONED SPECIFICATIONS ABOVE, THESE SPECIAL PROVISIONS SHALL PREVAIL.

1.0 GENERAL REQUIREMENT

- A. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE ACI 318-02 SPECIFICATIONS AND MIDWEST PLAN SERVICE 36.
- B. CONCRETE CONTRACTOR IS ACCOUNTABLE FOR ASSURING THAT ALL NECESSARY INSTALLATIONS ARE COMPLETE PRIOR TO EACH POUR (i.e. GROUNDING, PLUMBING, FASTENERS, AND STEEL.)
- C. SUBGRADE OR COMPACTED SUBBASE SHALL BE CAPABLE OF SUPPORTING A DESIGN LOADING OF 100PSI. THIS SHALL BE VERIFIED WITH POCKET PENETROMETER, NUCLEAR DENSITY GAUGE OR PROOF ROLLING.
- D. ALL GRANULAR SUBBASE SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MOISTURE PROCTOR OR 95% OF THE STANDARD PROCTOR. THIS SHALL BE VERIFIED WITH POCKET PENETROMETER, OR NUCLEAR DENSITY GAUGE OR PROOF ROLLING.
- E. COVER OVER EXCAVATED AREAS WITH GRANULAR SUBBASE MATERIAL.
- F. FILL SHALL NOT BE PLACED ON FROZEN GROUND AND FROZEN MATERIAL CAN NOT BE USED AS BACKFILL.
- G. STEEL REINFORCEMENT SHALL BE STORED ON THE JOB SITE IN SUCH A WAY AS TO ELIMINATE CONTAMINATION BY THE SOIL OR GRAVEL, I.E. STEEL SHALL BE STORED ON CRIBBING OR TIMBERS WITH ADEQUATE SPACING TO PREVENT SAGGING TO THE SOIL.
- H. ANY TILES ENCOUNTERED DURING THE EXCAVATION SHALL BE RELOCATED TO GREATER THAN 50 FEET AWAY FROM THE PROPOSED WASTE STORAGE STRUCTURE.
- I. CONCRETE SHALL NOT BE PLACED IN MUD, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. PLASTIC SHEETING USED TO ISOLATE THE CONCRETE FROM UNSUITABLE SOIL TYPES WILL NOT BE TOLERATED.
- J. FORMS SHALL BE COATED WITH A RELEASE AGENT. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS SHALL NOT BE USED. RELEASE AGENT SHALL BE PLACED ON FORMS PRIOR TO SETTING THEM.
- K. REINFORCEMENT SHALL BE ACCURATELY PLACED AND "SECURED" IN THE WALL AT THE POSITIONS AS SHOWN ON THE CONSTRUCTION DRAWINGS. METAL CHAIRS, METAL HANGERS, METAL SPACERS, OR PLASTIC CHAIRS SHALL BE USED TO SUPPORT THE REINFORCEMENT.
- L. STEEL TYPING AND CONSTRUCTION ADJACENT TO A RECENT POUR SHALL NOT BEGIN UNTIL THE RECENT POUR HAS CURED FOR AT LEAST 12 HOURS.

1.1 CONCRETE MIXES

- A. ALL CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- B. ALL CONCRETE SHALL BE AIR ENTRAINED 4% TO 6%, UNLESS OTHERWISE SPECIFIED.
- C. ALL CONCRETE SHALL HAVE A SLUMP OF 3 TO 5 INCHES UNLESS PRE-APPROVED BY AN ENGINEER.

1.2 USE OF PLASTICIZERS

- A. A WATER REDUCING AND/OR PLASTICIZING MIXTURE MAY BE ADDED TO THE CONCRETE MIX PROVIDED THE FOLLOWING REQUIREMENTS ARE MET.
- B. THE ADMIXTURE SHALL BE ADDED INTO THE CONCRETE MIX AS SPECIFIED BY THE MANUFACTURER AND BE COMPATIBLE WITH THE OTHER ADMIXTURES IN THE MIX.
- C. THE WATER CONTENT SHALL BE EQUAL TO OR LESS THAN THAT REQUIRED IN THE JOB MIX WITHOUT THE ADMIXTURE.
- D. THE CHLORIDE CONTENT SHALL BE THE SAME AS THAT REQUIRED IN THE JOB MIX WITHOUT THE ADMIXTURE.
- E. THE AIR CONTENT SHALL BE WITHIN THE SPECIFIED RANGE.
- F. THE SLUMP CONTENT SHALL NOT EXCEED 3 INCHES UNLESS THE CONTRACTOR CAN DEMONSTRATE BEFORE PLACEMENT THAT THE JOB MIX CAN BE PLACED WITHOUT SEGREGATION AT A SLUMP GREATER THAN 3 INCHES. THE CONCRETE SHALL RETAIN THE INCREASED SLUMP FOR NOT LESS THAN 30 MINUTES.
- G. IF THE ADMIXTURE IS ADDED AT THE JOB SITE, THE SLUMP OF THE CONCRETE BEFORE THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED A SLUMP OF 3 INCHES.

1.3 CONCRETE REINFORCING

- A. REINFORCING STEEL BARS
 - 1. ALL REINFORCING BARS TO BE ASTM A615 GRADE 60 OR GRADE 40 AS NOTED ON PLANS. GRADE 60 SHALL BE USED UNLESS OTHERWISE NOTED.
 - 2. WHERE USED, DOWELS SHALL BE SPACED WITH VERTICAL REINFORCEMENT, UNLESS OTHERWISE SPECIFIED.
 - 3. ALL LAP LENGTHS TO BE A MINIMUM OF 16 BAR DIAMETERS. ALL SPECIFIED LAP LENGTHS ARE SHOWN AS MINIMUMS.
 - 4. ALL STEEL BAR REINFORCING COVER WILL CONFORM TO ASTM A1181.
 - 5. ALL STEEL SHALL BE PLACED, TIED, AND PROPERLY SUPPORTED PRIOR TO THE PLACEMENT OF THE CONCRETE.

B. REINFORCING WIRE FABRIC

- 1. ALL WELDED WIRE FABRIC (W.W.F) WILL CONFORM TO ASTM A 185.
- 2. ALL STEEL WELDED WIRE FABRIC REINFORCING COVER SHALL CONFORM TO THE MIDWEST PLAN SERVICE 36.

1.4 PLACING CONCRETE

- A. ENSURE REINFORCEMENT, INSERTS AND EMBEDDED ITEMS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- B. PLACE CONCRETE WITH THE AID OF MECHANICAL VIBRATORS OF APPROVED TYPE. ENOUGH VIBRATION SHALL BE USED TO CAUSE ALL CONCRETE TO FLOW OR SETTLE READILY INTO PLACE. VIBRATORS MUST NOT BE ALLOWED TO TOUCH REINFORCEMENT EMBEDDED IN PARTIALLY SET CONCRETE NOR USED TO TRANSFER CONCRETE IN FORMS.
- C. CONTROL JOINTS SHALL BE REQUIRED AT A MAXIMUM SPACING OF 50 FEET O.C. FOR FLOORS AND AT 100 FEET O.C. FOR WALLS.
- D. PLACEMENT OF CONCRETE SHALL NOT OCCUR UNTIL THE SUBGRADE, FORMS, STEEL REINFORCEMENT HAVE BEEN INSPECTED AND APPROVED BY THE PRIVATE CONSULTING ENGINEER OR ENGINEER'S REPRESENTATIVE.
- E. CONCRETE PLACEMENT CAN ONLY OCCUR IN THE PRESENCE OF THE ENGINEER. ADEQUATE TIME SHALL BE GIVEN TO THE PRIVATE CONSULTING ENGINEER OR ENGINEER'S REPRESENTATIVE SO THAT THE AREA TO BE POURED CAN BE INSPECTED PRIOR TO THE START OF THE POUR.
- F. CONCRETE SHALL NOT BE DROPPED MORE THAN 5' VERTICALLY UNLESS SUITABLE EQUIPMENT IS PROVIDED TO PREVENT SEGREGATION. WHEN A SUPERPLASTICIZED CONCRETE MIX IS USED CONCRETE SHALL NOT BE DROPPED MORE THAN 12' VERTICALLY.
- G. ALL CONCRETE SHALL BE VIBRATED WITH INTERNAL VIBRATION EXCEPT IN THIN SECTIONS OR INACCESSIBLE LOCATIONS.
- H. THE VIBRATOR SHALL BE INSERTED INTO THE FORMS IMMEDIATELY AFTER PLACEMENT AND SHALL BE WORKED IN ORDER THAT THE CONCRETE IS POURED. COMPLETELY WORK THE CONCRETE AROUND THE REINFORCEMENT.
- I. THE FOLLOWING SPECIFICATIONS APPLY FOR THE CONCRETE: DIAMETER OF HEAD (1-5 TO 2.5 INCHES), FREQUENCY (8-50 TO 12-300 VIBRATIONS PER MINUTE), AVERAGE AMPLITUDE (10-2 TO 0.01 INCHES), CENTRIFUGAL FORCE (100-1000 LBS), RADIUS OF ACTION (20-32 INCHES), RATE OF CONCRETE PLACEMENT (12-18 C.Y./HR).
- J. NO EXTRA WATER SHALL BE ADDED ON THE JOB SITE UNLESS THE JOB SITE SLUMP TEST INDICATE THE NEED OF ADDITIONAL WATER.
- K. CONCRETE SHALL BE PLACED WITH 90 MINUTES OF BATCHING FROM THE PLANT.
- L. FOR WALLS LESS THAN 10 FEET IN HEIGHT, THE MINIMUM CURE TIME REQUIRED BEFORE THE FORMS ARE REMOVED SHALL BE 12 HOURS.

1.5 WATERSTOPS



- A. ALL JOINTS OR AREAS OF TWO DIFFERENT POURS WHERE MANURE MAY CONTACT CONCRETE SHALL BE WATERSTOPPED WITH RX WATERSTOP OR GREENSTREAK WATERSTOP PRODUCTS (AS SHOWN ON CONSTRUCTION DRAWINGS).
- B. ALL WATERSTOP LOCATIONS WILL BE REQUIRED AS PER PLANS.
- C. ALL WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

1.6 COLD WEATHER CONCRETE

- A. METHODS FOR COLD WEATHER CONCRETE SHALL BE IMPLEMENTED WHEN THE FOLLOWING CONDITIONS EXIST FOR MORE THAN THREE CONSECUTIVE DAYS: THE AVERAGE DAILY AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT OR THE AIR TEMPERATURE AT THE JOB SITE IS NOT MORE THAN 30 DEGREES FAHRENHEIT FOR MORE THAN HALF OF ANY 24 HOUR PERIOD.
- B. CONCRETE SHALL BE PROTECTED AGAINST FREEZING DURING THE FIRST 24 HOURS.
- C. IF ADDITIONAL CEMENT IS ADDED TO THE MIX, THE TEMPERATURE OF THE MIXING WATER SHALL NOT EXCEED 140 DEGREES FAHRENHEIT AND THE TEMPERATURE OF THE AGGREGATE SHALL NOT EXCEED 140 DEGREES FAHRENHEIT.
- D. PLEASE REFERENCE 210-VI-NEN FOR MINIMUM TEMPERATURES OF THE CONCRETE FOR THE FIRST 24 HOURS.
- E. EXHAUST GASES FROM THE COMBUSTION HEATERS SHALL BE VENTED OUTSIDE OF THE ENCLOSURE.
- F. AT THE END OF THE PROTECTION PERIOD, THE CONCRETE SHALL BE ALLOWED TO COOL GRADUALLY WITH A MAXIMUM INCREASE IN A 24 HOUR PERIOD OF 40 DEGREES FAHRENHEIT.

1.7 HOT WEATHER CONCRETE

- A. HOT WEATHER IS DEFINED AS ANY COMBINATION OF HIGH TEMPERATURE, HIGH CONCRETE TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY THAT IMPAIR THE QUALITY OF FRESH OR HARDENED CONCRETE.
- B. IN TEMPERATURE EXTREMES, THE FIRST CONSIDERATION SHOULD BE PLACEMENT OF THE CONCRETE AT DIFFERENT HOURS TO REDUCE THE POTENTIAL OF SURFACE CRACKS.
- C. THE TEMPERATURE OF CONCRETE SHALL BE MAINTAINED BELOW 90 DEGREES FAHRENHEIT DURING MIXING, CONVEYING, AND PLACING.
- D. EXPOSED SURFACES THAT ARE RAPIDLY DRYING DUE TO THE FIELD CONDITIONS SHALL BE FOG SPRAYED.
- E. FINISHING OF THE CONCRETE SHALL BEGIN AS SOON AS CONCRETE ALLOWS WITHOUT DELAY. WATER SHALL NOT BE ADDED TO THE SURFACE TO FACILITATE FINISHING.
- F. FORMED WALL SURFACES SHALL BE KEPT CONTINUOUSLY WET FROM THE TIME OF INITIAL SET UNTIL CONCRETE IS FULLY SET IN ACCORDANCE WITH SECTION 21 OF THE NEW.
- G. FORMED FLOOR SURFACES SHALL BE KEPT CONTINUOUSLY WET FOR THE DURATION OF THE CURING PERIOD OR UNTIL A CURING COMPOUND IS APPLIED.

REVISIONS				DRAWN M.L.W.	CHECKED A.A.W.	APPROVED M.L.W.		WAGNER CONSULTING & AGRICULTURE 709 WEST OAK STREET LENA, ILLINOIS 61048 815-275-7641 WAGNERCONSULTAG@MEDIACOMBB.NET	CONTACT JULIE AT 811 OR 800-892-0123 With the following:  County _____ City/Township _____ Sec & 1/4 Sec No _____ 48 HOURS (7 working days) BEFORE YOU DIG	KROGMAN FARM 4784 WEST VALLEY ROAD SHANNON, ILLINOIS 61078	PROJECT NO. 12W17 DATE 03/10/18 SHEET NO. 5 OF 1231 SHEETS	
NO.	DATE	BY	REMARKS									

ADDITIONAL CONCRETE SPECIFICATIONS

Electronic Filing: Received, Clerk's Office 9/04/2018 **PCB 2019-056**

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 September 4, 2018, 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:

Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
P.O. Box 19033
Springfield, Illinois 62794

Krogman Farm
c/o Chad & Julia Krogman
4784 W. Valley Road
Shannon, Illinois 61078

[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)

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