

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Pierson Farm – Princeton)
(Property Identification Number) **PCB 21-**
16-28-400-003)) **(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.

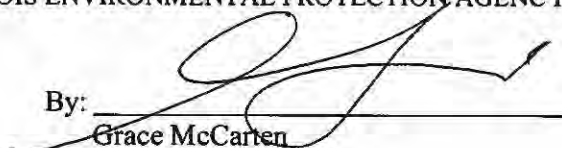
Andrew Pierson
20859 1300 North Ave.
Princeton, IL 61356

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
P.O. Box 19033
Springfield, Illinois 62794

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Grace McCarten
Assistant Counsel
Division of Legal Counsel

DATED: March 12, 2021

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

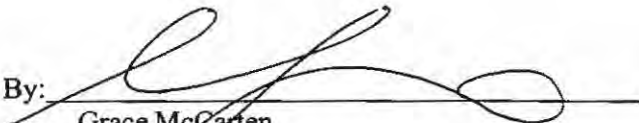
BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Pierson Farm - Princeton)
(Property Identification Number) **PCB 21-**
16-28-400-003)) **(Tax Certification)**
)

A P P E A R A N C E

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

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Grace McCarten
Assistant Counsel
Division of Legal Counsel

DATED: March 12, 2021

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

Pierson Farm - Princeton)
(Property Identification Number) **PCB 21-**
16-28-400-003) **(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 November 12, 2020, the Illinois EPA received a request from Pierson Farm (log number TC-143333, 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: Andrew Pierson
20859 1300 North Ave.
Princeton, IL 61356

The proposed water pollution control facilities in this request are located in the SE ¼ of Section 28, T16N, R9E of the 4th P.M. in Bureau County, at the above street address and consist of the following:

Livestock waste handling facilities consisting of two concrete manure pits (approximately 203 ft. x 51 ft. 8 ft. each), the concrete slatted portion of the floor over the manure pits that capture and contain waste generated in the barns above, ten pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each) to allow manure removal from the manure pits, plastic perimeter drainage tiles (approximately 1,050 ft. x 4 in.) located around the footing of the manure pits to prevent flotation of the pits, and two PVC inspection ports (approximately 9 ft. ht. x 12 in. dia. each) attached to the drainage tiles.

These livestock waste management facilities are 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

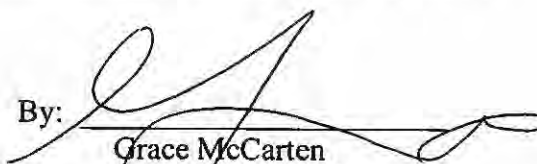
"pollution control facilities" as:

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: 
Grace McCarten
Assistant Counsel
Division of Legal Counsel

Dated: March 12, 2021

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

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

Memorandum

To: Mike Roubitchek, Division of Legal Counsel

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

Date:

Re: Pierson Farm - Princeton
Recommendation of Tax Certification
Log# TC-143333
Property Index# 16-28-400-003

The Bureau of Water received a request on November 12, 2020 from Andrew Pierson for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. We offer the following recommendation.

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

Pierson Farm
20859 1300 N. Ave.
Princeton, IL 61356

SE ¼ of Section 28, T16N, R9E of the 4th PM in Bureau County

The livestock waste handling facilities consisting of two (2) concrete manure pits (approximately 203 ft. x 51 ft. x 8 ft. each), the concrete slatted portion of the floor over the manure pits that capture and contain waste generated in the barns above, ten (10) pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each) to allow manure removal from the manure pits, plastic perimeter drainage tiles (approximately 1,050 ft. x 4 in.) located around the footing of the manure pits to prevent flotation of the pits, and two (2) PVC inspection ports (approximately 9 ft. ht. x 12 in. dia. each) attached to the drainage tiles. The facility collects, transports and stores livestock waste prior to cropland application.

The facility is 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 Wei Han at 217/782-0610.

DEL:WH:Tax Cert Recommendation.docx

cc: Tax Cert File

Watershed Unit Tax Certification Review Sheet

Project Name: Pierson Farm

Date: December 16, 2020

Reviewer: WH

Type: Agchem
 Livestock

Log number: TC-143333

Applicant: Andrew Pierson
20859 1300 N. Ave.
Princeton, IL 61356

Contact: Matthew Wagner
709 W. Oak St.
Lena, IL 61048
Phone: 815-275-7642

Facility: Pierson Farm
20859 1300 N. Ave.
Princeton, IL 61356

Property Index#: 16-28-400-003

Parcel#:

Legal Description:
SE of Section: 28 Twp: 16N R: 9E PM: 4th

County: Bureau

Signature: Matthew Wagner

Title: Engineer

Date Control Devices installed: November 2020

Wastes: Livestock waste is applied to cropland.
 Agrichemical rinsate and spillage is recycled through the facility and/or land applied.
 Other: _____

Physical Description of Pollution Control Devices:

The livestock waste handling facilities consist of two (2) concrete manure pits (approximately 203 ft. x 51 ft. x 8 ft. each) and the concrete slatted portion of the floor over the manure pits that capture and contain waste generated in the barns above. The concrete manure pits have ten (10) pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each) to allow manure removal from the manure pits. Perimeter drainage tiles (approximately 1,050 ft. x 4 in. perforated plastic) are located around the footing of the manure pits to prevent of the pits. There are two (2) PVC inspection ports (approximately 9 ft. x 12 in. dia. each) attached to the perimeter drainage tiles. The facility collects, transports and stores livestock waste prior to cropland application.

Pollution control facilities requested by the applicant through Description of Pollution Control Facilities, Section C of the application form and the attached drawings.

Two (2) concrete manure pits; (approximately 203 ft. x 51 ft. x 8 ft each)

Concrete slatted floor at the pits;

Pumpout pits attached to the manure pits, 10 x 5 ft. x 6 ft. x 8 ft.

Perimeter drainage tiles at the pit: 1,050 ft. x 4 in. perforated plastic

Two (2) PVC inspection ports (approximately 8 ft. x 8 in. dia. each) attached to the perimeter drainage tiles

A process flow diagram and a plan view of the pits is submitted with the application.

Recommended Action: Issue tax certification.



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

November 6, 2020

RECEIVED
NOV 12 2020

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

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 Pierson farm, we are submitting the tax certification for the recently constructed livestock waste management facilities. The facility consists of two concrete waste storage structures with outside pit wall dimensions of 203'4" x 51'2" x 8'. We are also including a copy of the as-built construction drawings for the project, plat book, and liquid waste flow diagram.

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: Pierson Farm w/ encl.
File

Han, Wei

From: Matt Wagner <wagnerconsultag@mediacombb.net>
Sent: Saturday, December 5, 2020 8:19 AM
To: Han, Wei
Subject: [External] RE: TC-143333 Pierson Farm

Good morning Wei,

1. The perimeter drain tile is ADS perforated pipe.
2. The inspection ports are 9' tall and constructed of 12" ADS N-12 WT pipe.

If you need anything else, please let me know.

Matthew Wagner, P.E.

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

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From: Han, Wei [mailto:Wei.Han@Illinois.gov]
Sent: Friday, December 04, 2020 12:57 PM
To: Matthew Wagner (WAGNERCONSULTAG@MEDIACOMBB.NET)
Subject: TC-143333 Pierson Farm

Mat,

I need the following addition information for the above application:

1. The construction material of the perimeter drainage title, HDPE, PVC, etc. Also confirm that the total length is 1,050 feet (2 x 525 ft);
2. The dimensions (height and diameter) of the inspection ports. Are they made from PVC pipes.

Thanks,

Wei Han, P.E.
Illinois Environmental Protection Agency
BOW/DWPC/Permit Section
1021 North Grand Avenue E.
P.O. Box 19276
Springfield, IL 62794-9276

Phone: 217-524-3034

TC-143333



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

I. Applicant Information:

Company Name: <u>Pierson Farm</u>	Person to Contact for Additional Details: <u>Matthew Wagner</u>
Person Authorized to Receive Certification: <u>Andrew Pierson</u>	
Street Address: <u>20859 1300 North Avenue</u>	Street Address: <u>709 West Oak Street</u>
City: <u>Princeton</u> State: <u>IL</u>	City: <u>Lena</u> State: <u>IL</u>
Zip: <u>61356</u> Phone: <u>8158766627</u>	Zip: <u>61048</u> Phone: <u>8152757642</u>
Email Address: <u>andrew.pierson@plantpioneer.com</u>	Email Address: <u>wagnerconsultag@mediacombb.net</u>

II. Facility Information:

Facility Location: Quarter Section: 28 Township: 16-North Range: 9-East
Municipality: Princeton Township: _____

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

Address: 20859 1300 North Avenue City: Princeton
State: IL Zip Code: 61356 County: Bureau Book Number: _____

Property Index Number: 16-28-400-003

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 building.

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):

2 - Slatted floor confinement buildings with dimensions of 203'4" x 51'2" x 8'

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 building
Washdown water	Liquid	Slatted floor confinement building

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 6, 2020

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

Buildings will be put into service on December 2, 2020 when the first load of pigs are delivered.

Status of installation on date of application:

Finishing punch list items and installing gating. The first load of pigs is scheduled for December 2, 2020.

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.

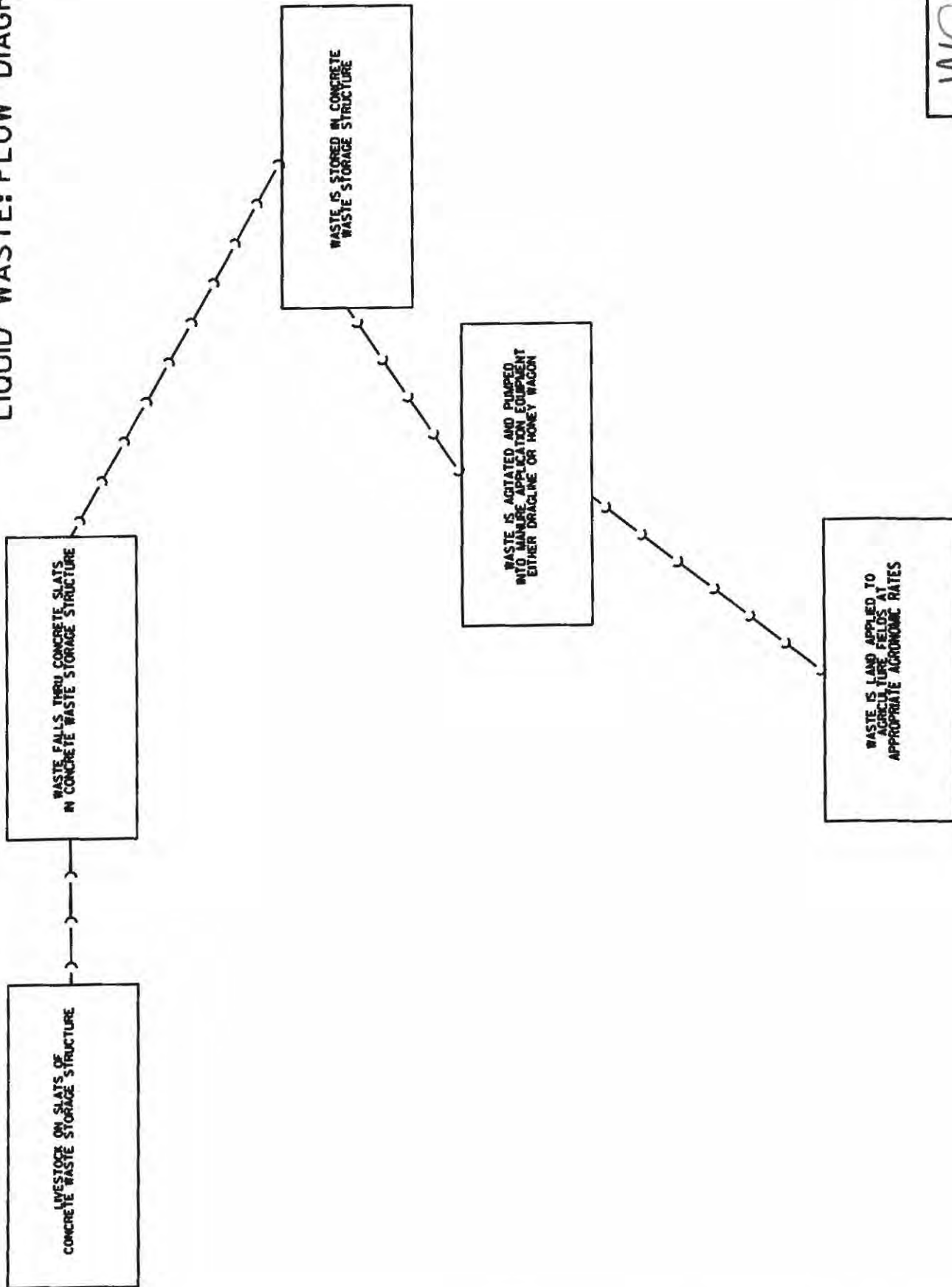
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Matthew Wagner Engineer
 Printed Name: Title:

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

Matthew Wagner 11-6-2020
 Signature: Date:

LIQUID WASTE: FLOW DIAGRAM

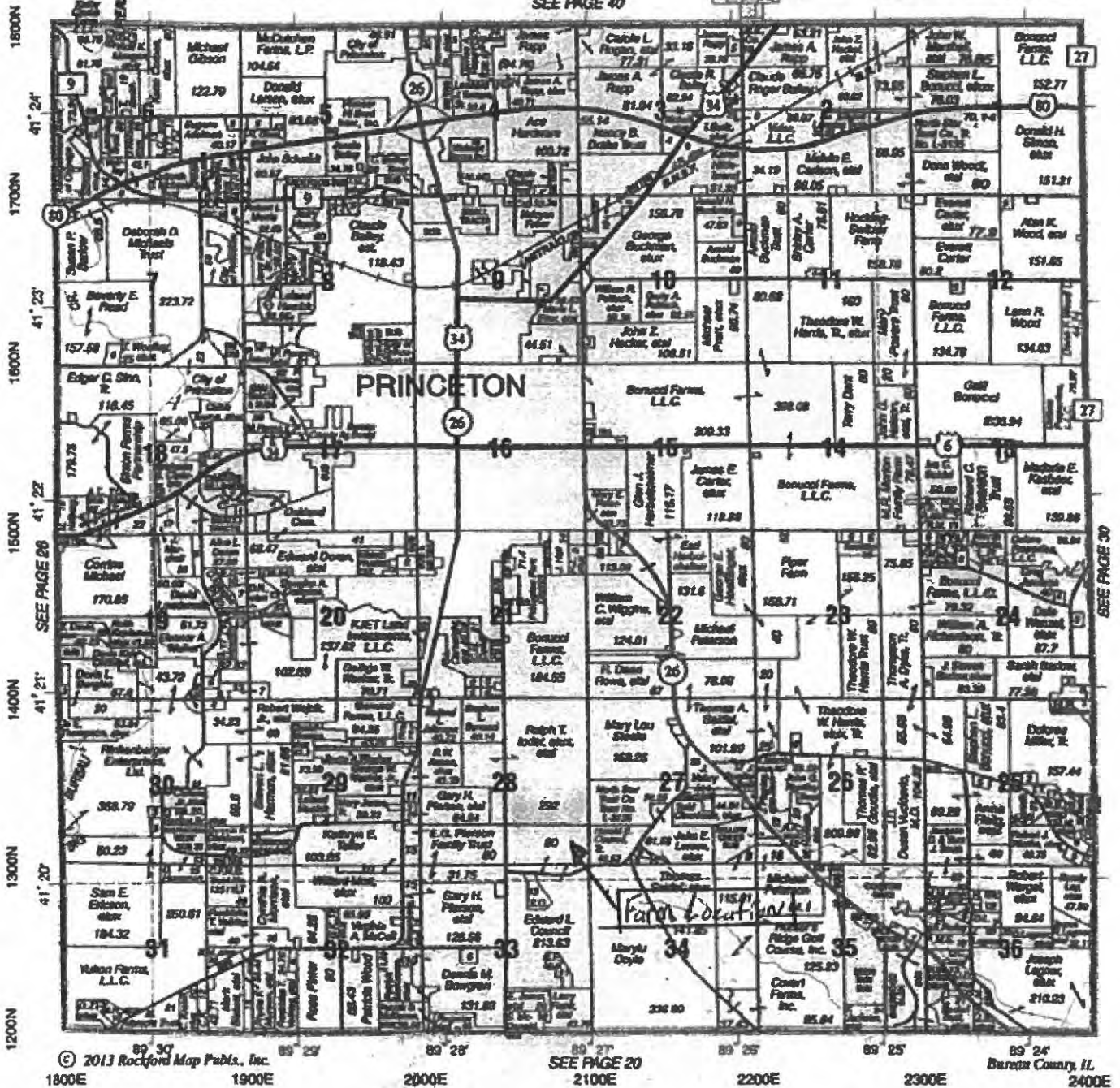


WCA
WATER CONSERVATION & AGRICULTURE
707 WEST 10th STREET
LEWISTON, ME 04240
827-2744
WWW.WCA-MAINE.COM

PRINCETON

T.16N.-R.9E.

SEE PAGE 40



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 1800E 1900E 2000E 2100E 2200E 2300E 2400E
 SEE PAGE 20
 Bureau County, IL

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(815) 699-7999
www.rickrediger.com

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PROPOSED HOG CONFINEMENT BUILDING
 PIERSON FARM
 PRINCETON, ILLINOIS
 SE 1/4 SECTION 28, T16N, R9E, 4TH P.M.



Lfc Exp
 1/30/21

SHEET INDEX

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LEGEND

	EDGE OF BUILDING
	PROPOSED GRAVEL ROADWAY
	PERIMETER DRAIN TILE
	ROADWAY CENTERLINE

Proposed Location



PROJECT LOCATION MAP

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
PRACTICE CODE 316 CONCRETE TANK OPEN TOP, 75,000 - 109,999 CU FT STORAGE	C.F.	132,668
PRACTICE CODE 606 UNDEVELOPED CORRUGATED PLASTIC PIPE (CPP), SINGLE WALL, 48 & 60	L.F.	175
PRACTICE CODE 351 (33" TO 60" DIA)	S.F.	2,486

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 BUILDING, 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, INLETS, 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. IF 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 RESPREAD 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 1,500 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 MAKE DO AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING LOCATION OF EXISTING UTILITIES.

"TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF THE WASTE STORAGE FACILITY (313), ROOFS AND COVERS (367), AND SUBSURFACE DRAIN (606) HAS BEEN INSTALLED IN ACCORDANCE WITH THE ILLINOIS TECHNICAL GUIDE STANDARDS AND SPECIFICATIONS FOR THE WASTE STORAGE FACILITY (313), ROOFS AND COVERS (367), AND SUBSURFACE DRAIN (606)."

Matthew Wagner 11-6-20

REVISIONS			
NO.	DATE	BY	REMARKS

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

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

PIERSON FARM
 20859 1300 NORTH AVENUE
 PRINCETON, ILLINOIS 61356
 COVER SHEET AND LOCATION MAP

PROJECT NO. 59917
 DATE 11/06/20
 SHEET NO. 1
 OF 09 SHEETS

SPECIFICATIONS

6" SOLID WALL DRAIN TILE

1. SOLID WALL DRAIN TILE SHALL BE 6" DIAMETER, CONFORM TO AASHTO M-294 AND M-252 AND ASTM F-405 AND F-667.

2. LAST 10' OF THE SUBSURFACE DRAIN SHALL BE SOLID PVC SCHEDULE 40 PIPE OR HEAVIER WITH AN ASTM RATING OF D1785. DOWNSTREAM END OF THE PIPE SHALL HAVE A ANIMAL GUARD INSTALLED.

3. ANIMAL GUARD SHALL BE AS MANUFACTURED BY HAVILAND OR APPROVED EQUAL.

4. ITEM 2 AND 3 SHALL BE INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS FOR PRACTICE CODE 606 SUBSURFACE DRAIN.

5. ANY EXPOSED PVC PIPE SHALL BE PAINTED TO PROVIDE PROTECTION FROM THE ULTRAVIOLET LIGHT.

4" PERFORATED DRAIN TILE

1. PERFORATED DRAIN TILE SHALL BE 4" DIAMETER, HAVE 1/2" DIAMETER OPENINGS AND CONFORMING TO AASHTO M-294 AND M-252 AND ASTM F-405 AND F-667.

2. GRANULAR BACKFILL SHALL BE USED AROUND DRAIN TILE.

BENCHMARK CHISELED "X"
ON TOP OF EXISTING
CONCRETE SLAB
ELEV. 673.49



NO.	DATE	BY	REMARKS

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



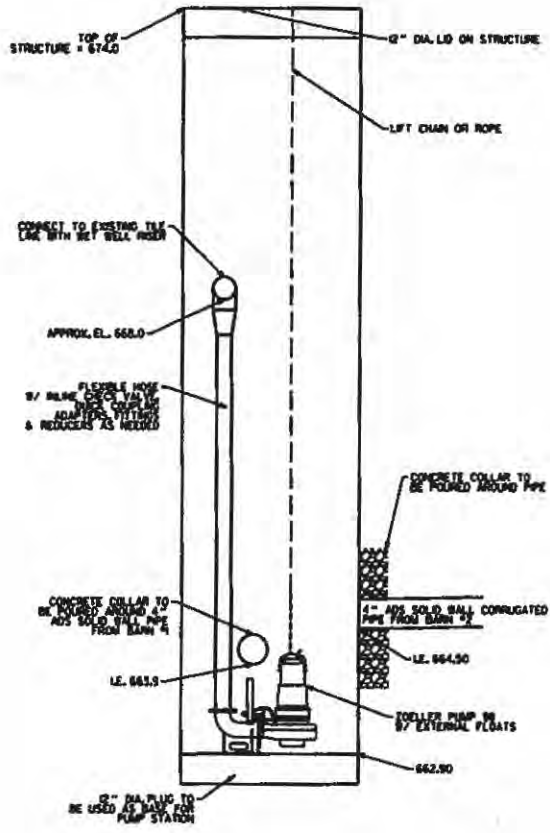
WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LENA, ILLINOIS, 61048
815-275-7642
WAGNERCONSULTAG@MEDIACOMBB.NET

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

PIERSON FARM
20859 1300 NORTH AVENUE
PRINCETON, ILLINOIS 61356

CIVIL SITE PLAN

PROJECT NO.
59W17
DATE
11/06/20
SHEET NO.
2
OF 030 SHEETS



REVISIONS			
NO.	DATE	BY	REMARKS

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



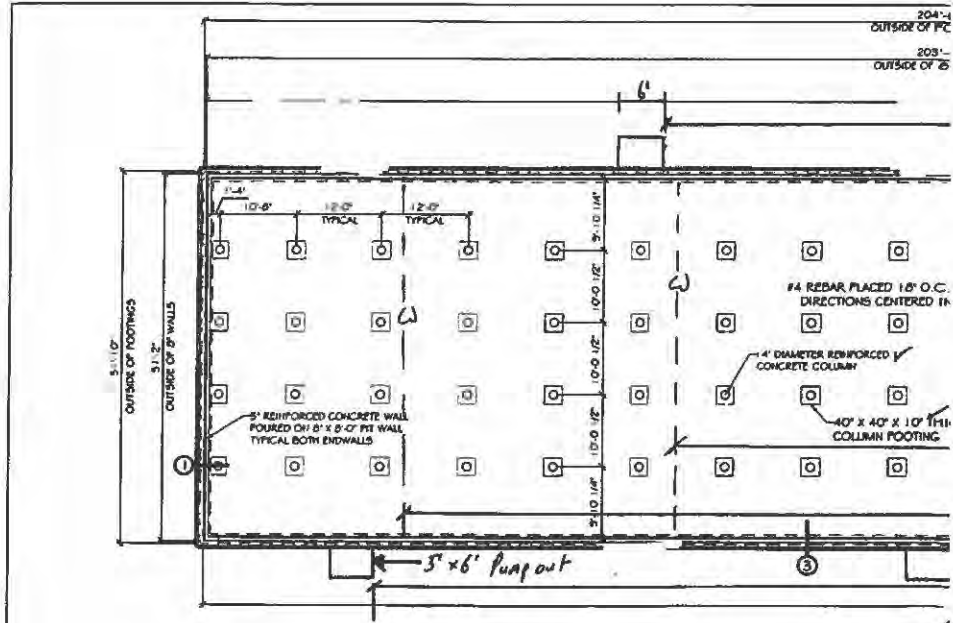
WAGNER CONSULTING & AGRICULTURE
709 WEST OAK STREET
LENA, ILLINOIS, 61048
815-275-7642
WAGNERCONSULTA@MBDIA.COMBB.NET

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

PIERSON FARM
20859 1300 NORTH AVENUE
PRINCETON, ILLINOIS, 61356

PUMP STATION DETAILS

PROJECT NO.
59W17
DATE
11/06/20
SHEET NO.
3
OF 03 SHEETS



CONCRETEWORK:
DO NOT MAKE HEAVY EQUIPMENT TRIPS OF 10 TONS EXCEPT AT PUMP-OUTS

DESIGN: STRUCTURAL DESIGN ACCORDING TO AC 308-44.
 ANCHOR BOLTS-ALL ANCHOR BOLTS SHALL BE PLACED IN FRESH CONCRETE AND POSITIONED AS REQUIRED BY FRAMING CONTRACTOR.
 LAYOUT OF ANCHOR BOLT SHALL FIRST BE CHECKED FROM THE BARE END OF THE MEMBER.
 INSTALL ANCHOR BOLTS AS SHOWN IN DETAIL.
 USE STAINLESS STEEL ANCHOR BOLTS ONLY (PROVIDED BY PM).
 WELDED OR WEDGE ANCHORS ARE NOT ALLOWED.

EXCAVATION BACKFILL:
 FORTIFY AND COVERED FOR MINIMUM 90% BEARING CAPACITY 100 LB/SQ FT.
 MAX BACKFILL HEIGHT TO SLAT LEVEL.
 MIN BACKFILL HEIGHT 2' BELOW SLAT LEVEL.

SOIL:
 CONTRACTOR SHALL OVER EXCAVATE AND PLACE A COMPACT SUITABLE FOOTING MATERIAL AS REQUIRED TO ASSURE BEARING CAPACITY IN ALL AREAS.
 BACKFILL SHALL BE GRANULAR FILL OR EQUIVALENT.
 BACKFILL ONLY AFTER PRECAST SLAB IS PLACED.

REINFORCING STEEL:
 FABRICATE AND PLACE IN ACCORDANCE WITH AC 318-11 STEEL.
 REBAR TO HAVE MINIMUM OF 1" COVER FROM SOIL TOP AND BOTTOM OF WALL AND 2" IN FOOTINGS.
 OVERLAP REBAR 12" MINIMUM.
 ALL REBAR IS 4275 AND GRADE IS UNLESS NOTED OTHERWISE.

CONCRETE: ALL CONCRETE TO BE 4000 P.S.I. AT 28 DAYS UNLESS NOTED OTHERWISE.

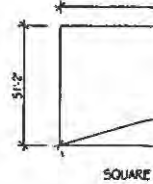
MINIMUM SLAB THICKNESS 4" FOR WALLS & COLUMNS.
 MINIMUM SLAB THICKNESS 4" FOR FLOORS.
 MINIMUM SLAB THICKNESS 4" FOR WALLS & COLUMNS.
 MINIMUM SLAB THICKNESS 4" FOR FLOORS.
 MINIMUM SLAB THICKNESS 4" FOR WALLS & COLUMNS.
 MINIMUM SLAB THICKNESS 4" FOR FLOORS.

WATERPROOFING: THE REBAR SHALL NOT PENETRATE THE WALL OR FLOOR OF THE LIFTWORK UNLESS RELEASE BARRIERS BELOW SLAT LEVEL.

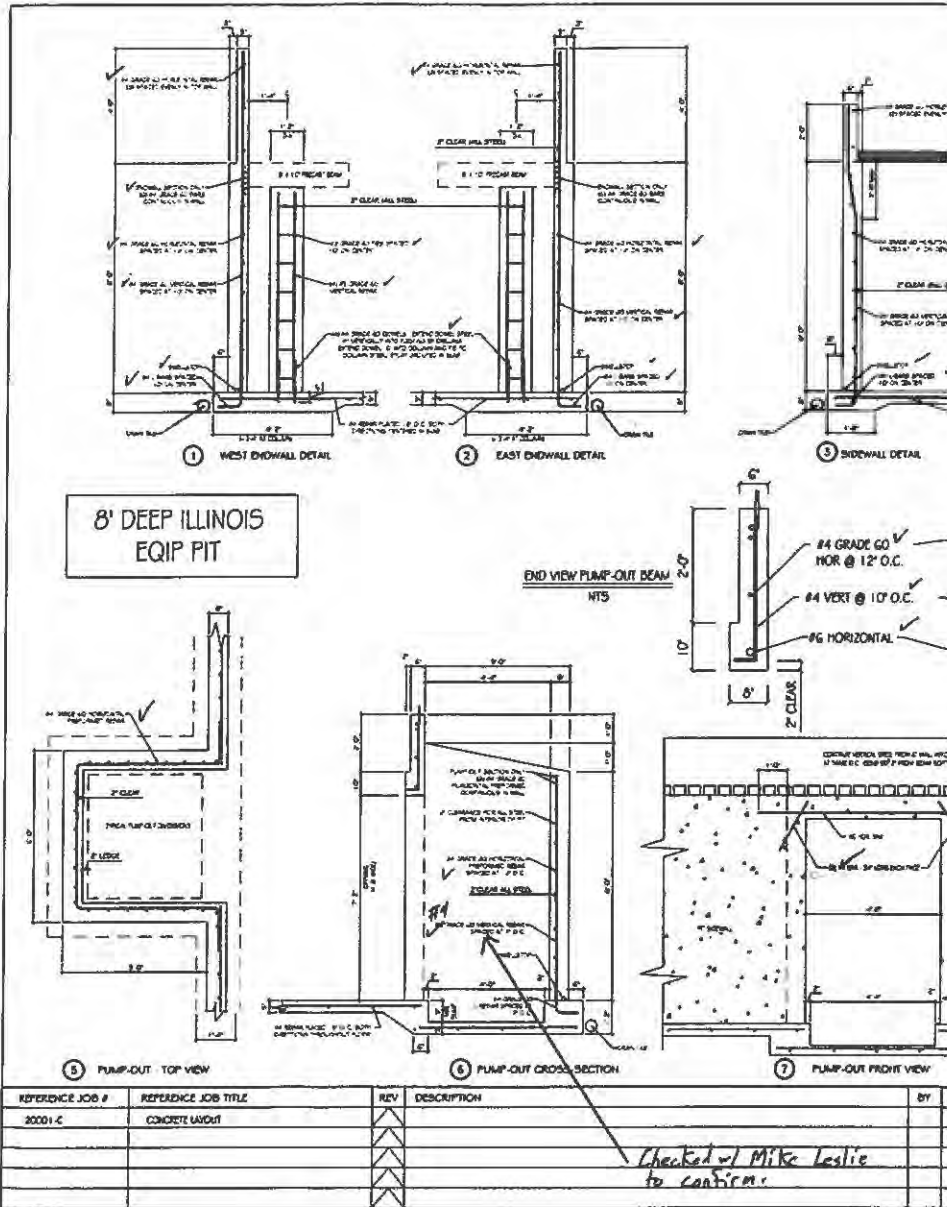
WATERPROOFING: WATERPROOF SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

JOINTS: NO JOINTS SHALL BE PLACED WITHIN 1 FEET OF PUMP-OUT POINTS.

SLABS: ALL REINFORCED CONCRETE SLABS AND/OR BEAMS SHALL BE SETTED AND/OR BRACKETED FROM THE FULL DEPTH AND WIDTH OF THEM USING 4000 P.S.I. CONCRETE GROUT MIX.
 2" THICK PRECAST SLABS



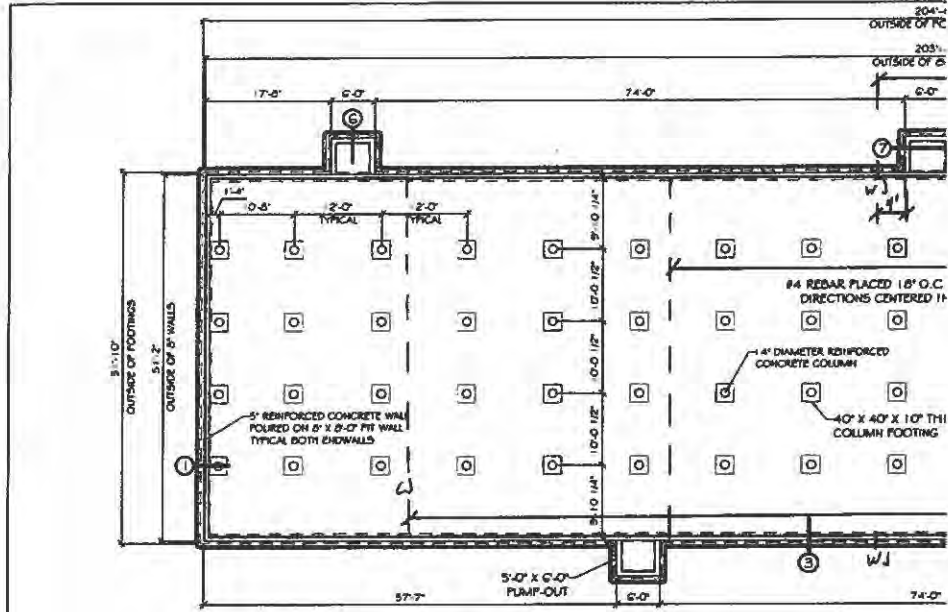
REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY
2001-40	CONCRETE DETAILS	A	LENGTH OF CONCRETE FT CHANGED FROM 201'-4" TO 203'-4"	MM



REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY
20001-C	CONCRETE LAYOUT			

Checked w/ Mike Leslie to confirm.

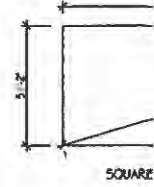
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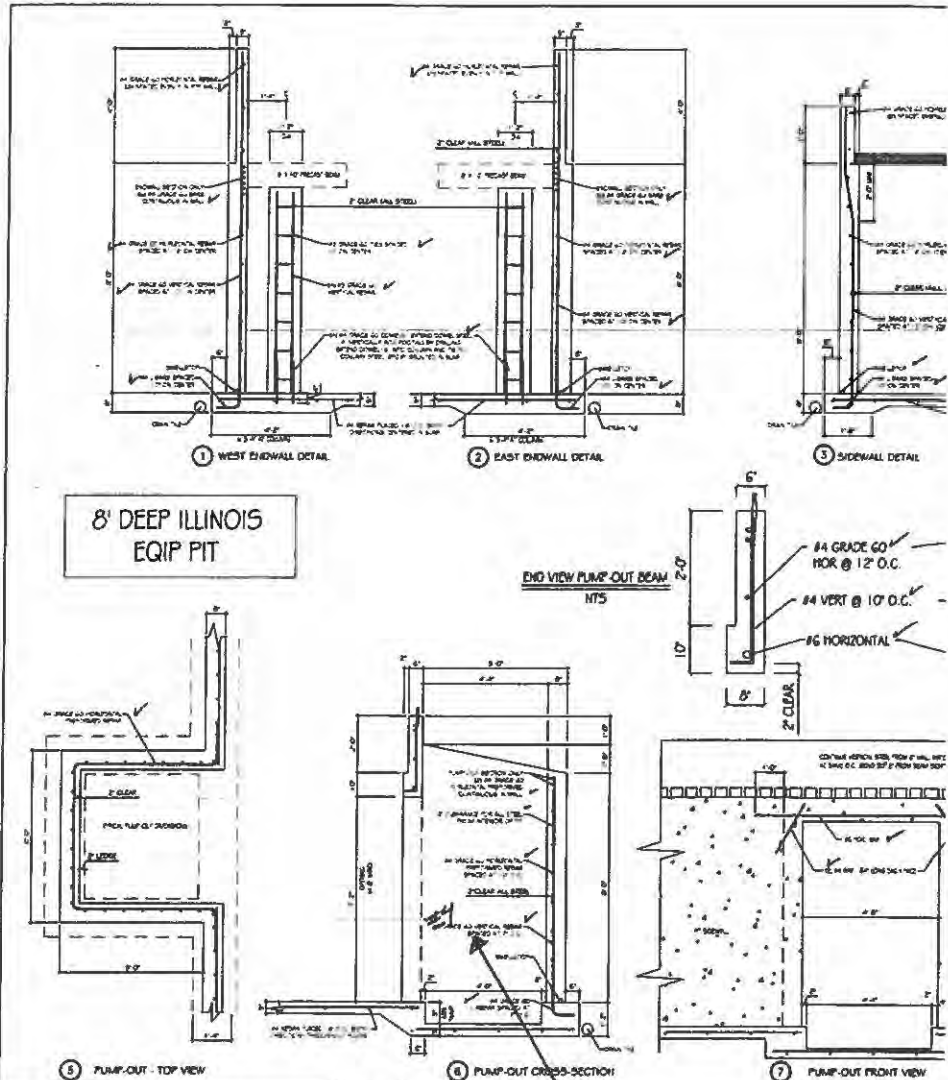
CONSTRUCTION NOTES:
DO NOT SLASH REBAR EQUIPMENT NEAR E OF PIT WALLS PRIOR AT PUMP-OUT

- GENERAL:**
 - STRUCTURAL VIEWS ACCORDING TO ACI 308.4A
 - ANCHOR BOLTS-ALL ANCHOR BOLTS SHALL BE PLACED IN FRESH CONCRETE AND POSITIONED AS REQUIRED BY PRISING CONTRACTOR.
 - LAYOUT OF INTERNAL ANCHOR BOLTS MUST BE REBARRED FROM THE BASE SIDE OF THE BEARING.
 - INSTALL ANCHOR BOLTS AS SHOWN IN DETAIL.
 - USE STAINLESS STEEL ANCHOR BOLTS ONLY PROVIDED BY PER.
 - WELLS OR HOLES ANCHORS ARE NOT ALLOWED.
- EXCAVATION & BACKFILL:**
 - FOOTING ARE DESIGNED FOR MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.
 - MAX BACKFILL HEIGHT TO SLAB LEVEL.
 - MIN BACKFILL HEIGHT 7' BELOW SLAB LEVEL.
- SOIL:**
 - CONTRACTOR SHALL OVER EXCAVATE AND PLACE & COMPACT SUITABLE FORTING MATERIAL AS REQUIRED TO ACHIEVE MINIMUM BEARING CAPACITY AS ATTACHED.
 - BACKFILL SHALL BE GRAVEL OR 3/4" SAND.
 - BACKFILL ONLY AFTER PRECAST SAND SLABS ARE PLACED.
- REINFORCEMENT:**
 - FABRICATE AND PLACE IN ACCORDANCE WITH ACI 318-14 STEEL.
 - MINIMUM TO BE 3/8" ABOVE OF 2" COVER FROM SOIL, TOP AND BOTTOM OF WALL AND 2" IN FOOTING.
 - OVERLAP REBAR 12" MINIMUM.
 - ALL REBAR IS WITH ARTS WRAPE UNLESS NOTED OTHERWISE.

- CONCRETE:**
 - ALL CONCRETE TO BE 3000 P.S.I. AT 28 DAYS UNLESS NOTED OTHERWISE.
 - MINIMUM 90 DAY COMPRESSIVE STRENGTH FOOTINGS & PIT FLOOR
 - WALLS & COLUMNS 3000 P.S.I. MIN. 7 DAYS
 - SEE COLUMN REBAR PLAN SHALL BE CLASS "C" ONLY
 - BACKFILL WITH SAND OR GRAVEL.
 - CONCRETE AIR CONTENT 6% TO 8%
 - MINIMUM SLUMP 4 to 7"
 - USE, PLACE, CARE AND PROTECT CONCRETE IN ACCORDANCE WITH ACI 318-14.
 - MINIMUM COVER & COVER CONCRETE AS REQUIRED TO PROTECT FROM TEMPERATURES BELOW 40° F.
- BARRELS:**
 - MINIMUM COVER SHALL NOT PENETRATE THE WALL OR FLOOR OF THE UNDERGROUND STRUCTURE INCLUDING BACKFILL BELOW SLAB LEVEL.
- WATERSTOP:**
 - WATERSTOP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- JOINTS:**
 - NO JOINTS SHALL BE PLACED WITHIN 3 FEET OF PUMP-OUT POINTS.
 - BACKFILL SHALL JOINT BRACKS = 18"
- SLABS:**
 - ALL REINFORCED CONCRETE SLABS AND/OR BEAMS SHALL BE BOTTED ANCHOR BRACKETS THAT THE FULL DEPTH AND HEIGHT OF THEM BEING OVER THE CONCRETE SURFACE.
 - 1/2" THICK PRECAST SLABS



REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY
2002-CD	CONCRETE DETAILS	A	LENGTH OF CONCRETE PIT CHANGED FROM 20'-4" TO 203'-4"	MJM
		B		
		C		
		D		



**8' DEEP ILLINOIS
EQIP PIT**

REFERENCE JOB #	REFERENCE JOB TITLE	REV	DESCRIPTION	BY
20202-C	CONCRETE LAYOUT			

*Checked w/ Mike Leslie to
LeFiori*

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 APPLY AS MINIMUM REQUIREMENTS:

- ACI-AMERICAN CONCRETE INSTITUTE
- ASTM-AMERICAN SOCIETY OF TESTING METHODS
- CSI-CONCRETE REINFORCING STEEL INSTITUTE
- NBA NATIONAL ENGINEERING HANDBOOK (2014-2016, 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 REQUIREMENTS

- A. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE ACI 318-14.
- 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. SUBSOIL OR COMPACTED SUBBASE SHALL BE CAPABLE OF SUPPORTING A DESIGN LOADING OF 1,000 PSF. 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 MODIFIED PROCTOR OR 91% OF THE STANDARD PROCTOR. THIS SHALL BE VERIFIED WITH POCKET PENETROMETER, OR NUCLEAR DENSITY GAUGES OR PROOF ROLLING.
- E. CORRECT 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 TEES ENCOUNTERED DURING THE EXCAVATION SHALL BE RELOCATED TO GREATER THAN 30 FEET AWAY FROM THE PROPOSED WATER STOP STRUCTURE.
- I. CONCRETE SHALL NOT BE PLACED IN WET, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. PLASTIC SHEETING USED TO ISOLATE THE CONCRETE FROM UNSUITABLE SOIL TYPES WILL NOT BE PERMITTED.
- J. FORMS SHALL BE COATED WITH A RELEASE AGENT. FORMS WITH TOUGH 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 BE OPEN 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 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 DESCRIBED 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 CEMENT 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 5 INCHES UNLESS THE CONTRACTOR CAN DEMONSTRATE BEFORE PLACEMENT THAT THE JOB MIX CAN BE PLACED WITHOUT SEGREGATION AT A SLUMP GREATER THAN 5 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 5 INCHES.

1.3 CONCRETE REINFORCING

- A. REINFORCING STEEL BARS
 - 1. ALL REINFORCING BARS TO BE ASTM A615 GRADE 60 AS NOTED ON PLANS.
 - 2. WHEN USED, DOWELS SHALL BE SPACED WITH VERTICAL REINFORCEMENT, UNLESS OTHERWISE SPECIFIED.
 - 3. ALL LAP LENGTHS TO BE A MINIMUM OF 36 BAR DIAMETERS. ALL SPECIFIED LAP LENGTHS ARE SHOWN AS MINIMUMS.
 - 4. ALL STEEL BAR REINFORCING COVER WILL CONFORM TO ASTM A111.
 - 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 A185.
 - 2. ALL STEEL WELDED WIRE FABRIC REINFORCING COVER SHALL CONFORM TO THE MIDWEST PLAN SPECIFICS.

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 SHALL 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 30 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 HAS 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 TIES SHALL BE GIVEN TO THE PRIVATE CONSULTING ENGINEER OR ENGINEER'S REPRESENTATIVE SO THAT THIS 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 WITHDRAWN IN SUCH THAT THE CONCRETE IS POURING. COMPLETELY WORK THE CONCRETE AROUND THE REINFORCEMENT.
- I. THE FOLLOWING SPECIFICATIONS APPLY FOR THIS CONCRETE: DIAMETER OF HEAD (1.5 TO 2.5 INCHES), FREQUENCY (1,500 TO 17,500 VIBRATIONS PER MINUTE), AVERAGE AMPLITUDE (0.65 TO 0.85 INCHES), CENTRIFUGAL FORCE (200-1000 LBS), RADIUS OF ACTION (20-25 INCHES), RATE OF CONCRETE PLACEMENT (1.5-4 C.Y./HR).
- J. NO EXTRA WATER SHALL BE ADDED ON THE JOB SITE UNLESS THE JOB SITE SLUMP TEST INDICATES THE NEED OF ADDITIONAL WATER.
- K. CONCRETE SHALL BE PLACED WITHIN 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 COLD JOINTS OR AREAS OF TWO DIFFERENT POURS WHERE MAJOR CONTACT CONCRETE SHALL BE WATERSTOPPED WITH RX WATERSTOP OR GREENSTRAK WATERSTOP PRODUCTS AS SHOWN ON CONSTRUCTION OR A WINDOW.
- 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. A 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 150 DEGREES FAHRENHEIT.
- D. PLEASE REFERENCE 216-VI-NEN FOR MINIMUM TEMPERATURES OF THE CONCRETE FOR THE FIRST 72 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 DECREASE 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 CURED IN ACCORDANCE WITH SECTION 21 OF THIS SPEC.
- G. FORMED FLAT SURFACES SHALL BE KEPT CONTINUOUSLY WET FOR THE DURATION OF THE CURING PERIOD OR UNTIL A CURING COMPOUND IS APPLIED.

REVISIONS			
NO.	DATE	BY	REMARKS

DRAWN: M.L.W.
 CHECKED: A.S.H.
 APPROVED: M.L.W.



WAGNER CONSULTING & AGRICULTURE
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 48 HOURS (2 working days) BEFORE YOU DIG

PIERSON FARM
 20859 1300 NORTH AVENUE
 PRINCETON, ILLINOIS 61356

ADDITIONAL CONCRETE SPECIFICATIONS

PROJECT NO. 19W17
 DATE 2/21/20
 SHEET NO. 8
 OF 09 SHEETS

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 March 12, 2021, the attached **NOTICE, 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:

Andrew Pierson
20859 1300 North Ave.
Princeton, IL 61356

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/ Grace McCarten
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
217.782.5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER