

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

**Parks Finishing E3, LLC** )  
**(Property Identification Number** ) **PCB 19-**  
**06-01-400-005)** **(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.


Nicole Crites  
191 S. Henning Road  
Danville, Illinois 61832

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: May 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**


**Parks Finishing E3, LLC** )  
**(Property Identification Number** ) **PCB 19-**  
**06-01-400-005)** **(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: May 15, 2019

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**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 September 25, 2018, the Illinois EPA received a request from Nicole Crites on behalf of Parks Finishing E3, LLC (log number TC-140357, 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: 

Parks Finishing E3, LLC
35539 State Route 49
Rankin, IL 60960

The proposed water pollution control facility in this request is located in the SW ¼ of Section 1, T22N, R14W of the 2nd P.M. in Vermilion County, at the above street address and consist of the following facilities:

Livestock waste handling facilities consisting of two (2) concrete manure pit (each approximately 341 ft. x 102 ft. x 8 ft.), the concrete slatted portion of the floor over the manure pits that captures and contains waste generated in the barn above, and twelve (12) pumpout pits associated with each pit (each approximately 5 ft. x 6 ft. x 8 ft.) (twenty-four total pumpout pits) to allow manure removal from the manure pits.

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

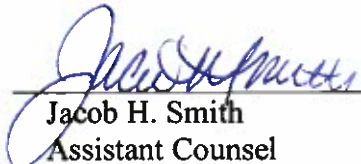
"pollution control facilities" as:

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.

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: May 15, 2019

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, ACTING DIRECTOR

# Memorandum

To: Charles Gunnarson, Division of Legal Counsel

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

Date: **MAY 13 2019**

Re: Parks Finishing E3, LLC – Rankin  
Recommendation of Tax Certification  
Log # TC-140357  
Parcel No. 06-01-400-005

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The Bureau of Water received a request on September 25, 2018 from Lawrence Parks 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:

Parks Finishing E3, LLC  
35539 State Route 49  
Rankin, IL 60960

SW ¼ of Section 1, T22N, R14W of the 2<sup>nd</sup> PM in Vermilion County

The livestock waste handling facilities consisting of two (2) concrete manure pits (approximately 341 ft. x 102 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, and twenty-four (24) pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each) to allow manure removal from the manure pits. 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: Parks Finishing E3, LLC

Type:  Agchem  
 Livestock

Reviewer: WH

Contact: Same

Log number: TC-140357

Applicant: Nicole Crites  
191 S. Henning Rd.  
Danville, IL 61832

Phone: 217-446-4600

Property Index#:

Facility: Parks Finishing E3, LLC  
35539 State Route 49  
Rankin, IL 60960

Parcel#: 06-01-400-005

County: Vermilion

Legal Description:

Signature: Lawrence Parks

SW ¼ of Section: 1 Twp: 22N R: 14W PM: 2<sup>nd</sup>

Title: Manager

Date Control Devices installed: April 2018

Date: October 30, 2018

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 341 ft. x 102 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. Each concrete manure pit has twelve (12) pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each) to allow manure removal from the manure pit. 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 2 of the application form:

Two (2) concrete manure pit (341 ft. x 102 ft. x 8 ft. each)

Concrete slatted floor;

Twenty four (24) pumpout pits (approximately 5 ft. x 6 ft. x 8 ft. each)

A process flow diagram with narrative is provided by the attachment of the email received 10/25/2018.

Recommended Action: Issue tax certification.



# 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:

**RECEIVED**  
SEP 25 2018

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

### I. Applicant Information:

Company Name:	<u>Parks Finishing E3, LLC</u>	Person to Contact	_____
Person Authorized to Receive Certification	<u>Nicole Crites</u>	for Additional Details	<u>Nicole Crites</u>
Street Address:	<u>191 South Henning Road</u>	Street Address:	_____
City:	<u>Danville</u> State: <u>IL</u>	City:	_____ State: _____
Zip:	<u>61832</u> Phone: <u>(217) 446-4600</u>	Zip:	_____ Phone: _____
Email Address:	<u>nicole.crites@parkslivestock.com</u>	Email Address:	_____

### II. Facility Information:

Facility Location: Quarter Section: 1 Township: 22N Range: 14W  
Municipality: \_\_\_\_\_ Township: Butler  
Note: A plat map location is requested for facilities located outside of municipal boundaries.  
Address: 35539 State Route 49 City: Rankin  
State: IL Zip Code: 60960 County: Vermilion Book Number: 17-06774  
Property Index Number: TBD

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:

Swine wean to finish operation

### Permit Information:

WPC Construction Permit Number: _____	Date Issued: _____
NPDES Permit Number: <u>ILR10Y698</u>	Date Issued: <u>Jun 20, 2017</u> Exp. Date: <u>Jul 31, 2018</u>
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.*



**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:

Handling liquid swine manure in two separate holding areas

**Materials Used in the Process:**

Concrete

**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):

101' x 340' x 8' pit covered with slats

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

Handling swine manure

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).

N/A

**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
Manure	Injection	Cropland Injection

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: Apr 9, 2018

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

April 13, 2018

Status of installation on date of application:

Complete

**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))*

Lawrence Parks

Manager

Printed Name:

Title:

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

Signature:

Date:

9/21/18

Park Livestock – Clark Pollution Control Facilities

*Section D Information*

All manure pits receive waste directly via gravity from the swine as it is excreted

**Manure Pit 1**

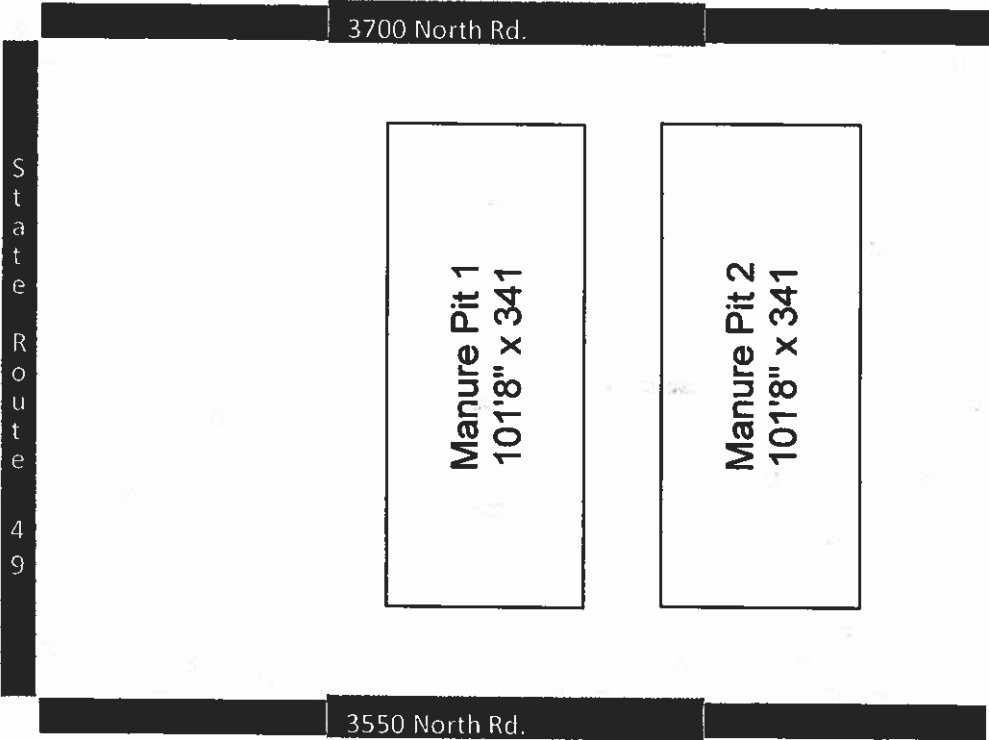
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Concrete manure pits measuring 101'8" ft X 341 ft X 8 ft deep with concrete slats covering the entire top

*Section E-4 Information*

	<i>Date Put into Service</i>
<b>Manure Pit 1</b>	<b>2018</b>
<b>Manure Pit 2</b>	<b>2018</b>

# Parks Finishing E3, LLC - Clark Existing Facility





# PARKS LIVESTOCK

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THE DRAWINGS INCLUDED WITH THIS PACKET ARE FOR USE BY THE FACILITY NAMED ABOVE. THE DRAWINGS MAY NOT BE USED FOR ANY PURPOSE AT ANY OTHER FACILITY. NO REVISIONS, ADDITIONS OR MODIFICATIONS TO THESE DRAWINGS MAY OCCUR WITHOUT WRITTEN CONSENT AND PERMISSION FROM THE LICENSED PROJECT ENGINEER OF THE COMPANY LISTED IN THE TITLE BLOCK.

IT IS INTENDED THAT ALL PLANS CONFORM TO MWPS-36 OR TR-9 AS APPROPRIATE. IN ADDITION ANY CONSTRUCTION OUTSIDE THE PERVEUE OF THIS DOCUMENT SHALL CONFORM TO THE APPROPRIATE ACI CODE.



**Frank & West**  
Environmental Engineers, Inc.  
1023 S 2nd Street  
Springfield, IL 62704  
Phone: 217/679-7361  
Fax: 217/679-8382

PARKS LIVESTOCK  
COVER PAGE

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DATE: 08/22/17 REVISED ON: XX/XX/XX DRAWING NO. 17-151CP

Electronic Filing: Received, Clerk's Office 05/15/2019 \*\*PCB 2019-107\*\*

GENERAL NOTES:

**A. CONSTRUCTION OF LIVESTOCK FACILITIES:**

- 1.) CONTACT JULIE (JOINT UTILITY LOCATING FOR EXCAVATORS) BEFORE BEGINNING ANY EXCAVATION OF SOIL FOR PROJECT (PH 811).

**B. STORAGE OF STEEL REINFORCEMENT:**

- 1.) SCHEDULE DELIVERY TO MINIMIZE LONG TERM STORAGE AT JOB SITE.
- 2.) STORE BUNDLES ABOVE GROUND ON TIMBERS OR OTHER CRIBBING.
- 3.) SPACE SUPPORT CRIBBING CLOSE ENOUGH TOGETHER TO PREVENT EXCESSIVE SAGGING OF THE BUNDLES.
- 4.) BLOCK MATERIAL AND STORE ON A SLANT TO ALLOW FOR WATER DRAINAGE AND AIR FLOW.
- 5.) CONTRACTOR SHALL CONFIRM THAT ALL STEEL REINFORCEMENT DOCUMENTATION MEETS PROJECT REQUIREMENTS.

**C. PREPARATION OF CONCRETE SUBGRADES:**

- 1.) ALL ORGANIC TOPSOIL INSIDE THE CONSTRUCTION AREA AND AT SITE FILL AREAS SHALL BE REMOVED. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION PER THE GENERAL CONDITIONS.
- 2.) TOPSOIL SHALL BE STRIPPED FROM THE FOUNDATION AREA AND STOCKPILED FOR USE AS TOP DRESSING FOR VEGETATION ESTABLISHMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 3.) PROOF ROLL SUBGRADES BELOW FLOOR, BEFORE FILLING OR PLACING AGGREGATE COURSES, WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.
- 4.) AGGREGATE BEDDING SUBGRADE SHALL BE PLACED TO A THICKNESS OF 3 TO 6 INCHES, AS NECESSARY, TO LEVEL THE FOUNDATION EXCAVATION TO FINISHED GRADE.
- 5.) RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES.
- 6.) WHEN SUBSURFACE DRAINS ARE ENCOUNTERED DURING ANY EXCAVATION, THEY SHALL BE REMOVED TO A MINIMUM DISTANCE OF 30' AWAY FROM EXTERIOR HORIZONTAL EXTENT OR EXTERIOR BERM TOE OF ANY WASTE STORAGE STRUCTURE AND REROUTED AROUND THE FACILITY.

**D. FILL PLACEMENT FOR CONCRETE SUBGRADES:**

- 1.) FILL SHALL NOT BE PLACED UNTIL THE REQUIRED EXCAVATION AND PREPARATION OF THE UNDERLYING FOUNDATION IS COMPLETED AND APPROVED BY THE TESTING AND INSPECTION AGENCY. FILL SHALL BE PLACED BEGINNING AT THE LOWEST ELEVATION OF THE FOUNDATION. NO FILL SHALL BE PLACED ON A FROZEN SURFACE.
- 2.) IF THE SURFACE OF ANY LAYER BECOMES TOO HARD AND SMOOTH FOR PROPER BOND WITH THE SUCCEEDING LAYER, IT SHALL BE SCARIFIED PARALLEL TO THE AXIS OF THE FILL TO A DEPTH NOT LESS THAN 2 INCHES BEFORE THE NEXT LAYER IS PLACED.
- 3.) ALL FILL UNDER CONSTRUCTION AREAS SHALL BE PIT RUN GRAVEL, OR APPROVED ENGINEERED GRANULAR MATERIAL, PLACED IN 8" MAXIMUM LIFTS, AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DENSITY. GRAVEL BASE BENEATH ALL CONCRETE SLABS SHALL BE 6" OF CLEAN SAND OR 3/4" CURED STONE WITH FINES COMPACTED. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED AS BACK FILL.
- 4.) EXCAVATION CONTRACTOR MAY HIRE SOIL TESTING FIRM AND ALLOW TESTING OF SUBGRADES AND EACH FILL LAYER. PROVIDE (1) TEST FOR EVERY 2,500 SQ. FEET OF SUBGRADE AREA AND ONE TEST FOR EVERY 100 LINEAR FEET OF WALL FOOTING. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS PREVIOUSLY COMPLETED WORK COMPLY WITH COMPACTION REQUIREMENTS.

**E. PREPARATION OF COMPACTED AND/OR INSITU CLAY LINER**

- 1.) ALL ORGANIC TOPSOIL INSIDE THE CONSTRUCTION AREA AND AT SITE FILL AREAS SHALL BE REMOVED. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION PER THE GENERAL CONDITIONS.
- 2.) ALL ORGANIC TOPSOIL SHALL BE STRIPPED FROM CONSTRUCTION AREA AND STOCKPILED FOR USE AS TOP DRESSING FOR FINISHED AREAS OUTSIDE OF THE PROPOSED COMPACTED CLAY LINER.
- 3.) CONSTRUCTED CLAY LINER THICKNESS SHALL BE AS FOLLOWS FROM NRCS CPS 520:
  - A. FOR DESIGN STORAGE DEPTH ≤ 18'; THE LINER THICKNESS SHALL BE 12"
  - B. FOR DESIGN STORAGE DEPTH 18'-24'; THE LINER THICKNESS SHALL BE 18"
  - C. FOR DESIGN STORAGE DEPTH 24'-30'; THE LINER THICKNESS SHALL BE 24"
- 4.) INSITU CLAY LINER THICKNESS SHALL BE AT LEAST 2 FEET OF NATURAL SOIL BELOW THE BOTTOM AND SIDES OF THE PROPOSED STRUCTURE. AWWMF PART 651 APPENDIX 10D
- 5.) INSITU CLAY LINER THICKNESS SHALL BE AT LEAST 2 FEET OF NATURAL SOIL BELOW THE BOTTOM AND SIDES OF THE PROPOSED STRUCTURE. AWWMF PART 651 APPENDIX 10D
- 6.) CONSTRUCTION OF A COMPACTED CLAY LINER SHALL BEGIN WITH PLACING LOOSE LIFTS IN THICKNESS OF A MAXIMUM OF 9 INCHES AS IS COMMONLY USED BY NRCS SPECIFICATIONS.

- 7.) ONCE CONSTRUCTION OF THE LINER HAS REACHED THE DESIRED THICKNESS, A SAMPLE FOR LABORATORY TESTING OF COMPACTED AND/OR INSITU CLAY LINER WILL BE OBTAINED BY PROJECT ENGINEER OR THE COMPANY LISTED IN THE TITLE BLOCK OF THIS PAGE. THE SAMPLE WILL BE COLLECTED UTILIZING A SHELBY TUBE TYPE OF SAMPLE CONTAINER. THE SHELBY TUBE CAN BE PLACED DIRECTLY IN A FLEXIBLE WALL PERMEAMETER FOR TESTING. AFTER EXTRUSION IN THE LABORATORY, THIS TESTING IS AN APPROVED METHOD WITHIN AWWMF PART 651 APPENDIX 10D.
- 8.) LINER PERMEABILITY SHALL BE AS FOLLOWS FROM IL 35 IAC CODE 506.304 & 35 IAC CODE 506.307
  - A. FOR EARTHEN STORAGES THAT COME INTO CONTACT WITH LIQUID WASTE SHALL HAVE A HYDRAULIC CONDUCTIVITY OF EQUAL TO OR LESS THAN 1X10<sup>-7</sup> CM/SEC.
  - B. FOR EARTHEN STORAGES THAT COME INTO CONTACT WITH POULTRY WASTE IN A DRY OR SOLID FORM SHALL HAVE A HYDRAULIC CONDUCTIVITY OF EQUAL TO OR LESS THAN 1X10<sup>-6</sup> CM/SEC.
  - C. THE EARTHEN FLOOR OF ENCLOSED DEEP BEDDED LIVESTOCK SYSTEMS THAT HANDLE WASTE IN A DRY OR SOLID FORM SHALL HAVE A HYDRAULIC CONDUCTIVITY OF EQUAL TO OR LESS THAN 1X10<sup>-6</sup> CM/SEC

**F. PREPARATION OF FORMS:**

- 1.) PRIOR TO THE PLACEMENT OF CONCRETE, THE FORMS AND SUBGRADE SHALL BE FREE OF CHIPS, SAWDUST, DEBRIS, WATER, ICE, SNOW, EXTRANEOUS OIL, MORTAR, OR OTHER HARMFUL SUBSTANCES OR COATINGS. ANY OIL IN THE REINFORCING STEEL OR OTHER SURFACES REQUIRED TO BE BONDED TO THE CONCRETE SHALL BE REMOVED. ROCK SURFACES SHALL BE CLEANED BY AIR-WATER CUTTING, WET SANDBLASTING, OR WIRE BRUSH SCRUBBING AS NECESSARY.
- 2.) THE SITE SHALL BE GRADED TO THE DIMENSIONS AND ELEVATIONS AS SPECIFIED IN THE CONSTRUCTION PLANS.
- 3.) ALL SURFACES SHALL BE FIRM AND DAMP PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE PLACED IN THE MUD, DRIED EARTH, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. THE USE OF PLASTIC SHEETING TO ISOLATE THE CONCRETE FROM UNSUITABLE FOUNDATIONS WILL NOT BE PERMITTED.
- 4.) THE FORMS AND ASSOCIATED FALSE-WORK SHALL BE SUBSTANTIAL AND UNYIELDING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE SPECIFIED DIMENSIONS AND CONTOURS. METAL CHAIRS, FORMS SHALL BE MORTAR TIGHT. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS WILL NOT BE USED. FORMS SHALL BE COATED WITH A FORM RELEASE AGENT BEFORE BEING SET INTO PLACE. EXCESS FORM COATING MATERIAL SHALL NOT COME IN CONTACT WITH THE STEEL REINFORCEMENT OR WITH HARDENED CONCRETE AGAINST WHICH FRESH CONCRETE IS TO BE PLACED.
- 5.) REINFORCEMENT SHALL BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION IN A MANNER THAT WILL PREVENT ITS DISPLACEMENT DURING THE PLACEMENT OF CONCRETE. METAL CHAIRS, METAL HANGERS, METAL SPACERS, PLASTIC CHAIRS, OR CONCRETE CHAIRS SHALL BE USED TO SUPPORT THE REINFORCEMENT. PRECAST CONCRETE CHAIRS SHALL BE MANUFACTURED FROM CONCRETE EQUAL IN QUALITY TO THE CONCRETE BEING PLACED. PRECAST CONCRETE CHAIRS SHALL BE MOIST AT THE TIME CONCRETE IS PLACED.
- 6.) REINFORCEMENT FOR FLATWORK SHALL BE BY A MINIMUM OF 1 SUPPORT EVERY THIRD BAR OR EVERY 4 FEET IN EACH DIRECTION, WHICHEVER SPACING IS SMALLER. SUPPORT CHAIRS SHALL HAVE A MINIMUM BASE AREA OF 4 SQUARE INCH IN CONTACT WITH THE SUB GRADE.
- 7.) STEEL TYING AND FORM CONSTRUCTION ADJACENT TO NEW CONCRETE SHALL NOT BE STARTED UNTIL CONCRETE HAS CURED FOR AT LEAST 12 HOURS.
- 8.) CONCRETE JOINTS SHALL BE OF THE TYPE SHOWN ON THE CONSTRUCTION DRAWINGS.
- 9.) WATERSTOPS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION SO THAT DISPLACEMENT DOES NOT OCCUR DURING CONCRETE PLACEMENT. WATERSTOPS MAY BE SECURED TO REINFORCEMENT USING WIRE OR "HOG RING" TYPE FASTENERS.

**G. EPOXY GROUTING OF REBAR OR INSTALLATION OF OTHER APPURTENANCES:**

- 1.) DRILL HOLE IN CONCRETE NO MORE THAN 1/2 THE THICKNESS OF THE SLAB OR WALL BEING PREPPED.
- 2.) DRILL HOLE 1/8" LARGER THAN REBAR TO BE INSTALLED.
- 3.) CLEAN HOLE BY BLOWING COMPRESSED AIR INTO HOLE TO REMOVE ALL LOOSE PARTICLES.
- 4.) HOLE MUST BE FREE OF WATER
- 5.) THE EPOXY MUST HAVE A PULLOUT STRENGTH GREATER THAN 5,000 LBS.
- 6.) THE EPOXY MUST BE CHEMICALLY RESISTANT TO LIVESTOCK MANURE.
- 7.) USE EPOXY APPROVED BY PROJECT ENGINEER OF THE COMPANY IN THE TITLE BLOCK OF THIS DRAWING.
- 8.) ANY BOLT OR ANY OTHER ANCHORING TYPE DEVICES SHALL BE TIED TO STRUCTURAL STEEL AT THE DEPTH RECOMMENDED BY THE MANUFACTURER.

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PARKS LIVESTOCK  
GENERAL NOTES

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GENERAL NOTES:

**H. PLACEMENT AND CONSOLIDATION OF CONCRETE:**

- 1.) NO CONCRETE SHALL BE PLACED ON ICE, SNOW, OR FROZEN FOUNDATION MATERIAL.
- 2.) THE METHOD AND MANNER OF PLACING CONCRETE SHALL BE SUCH AS TO AVOID SEGREGATION OR SEPARATION OF THE AGGREGATES OR THE DISPLACEMENT OF THE REINFORCEMENT. THE EXTERNAL SURFACE OF ALL CONCRETE SHALL BE THOROUGHLY WORKED DURING THE OPERATIONS OF PLACING IN SUCH A MANNER AS TO WORK THE MORTAR AGAINST THE FORMS TO PRODUCE A SMOOTH FINISH FREE OF HONEYCOMB AND WITH A MINIMUM OF WATER AND AIR POCKETS.
- 3.) OPEN TROUGHS AND CHUTES SHALL EXTEND AS NEARLY AS PRACTICABLE TO THE POINT OF DEPOSIT. DROPPING THE CONCRETE A DISTANCE OF MORE THAN 5' (1.5m) OR DEPOSITING A LARGE QUANTITY AT ANY POINT AND RUNNING OR WORKING IT ALONG THE FORMS WILL NOT BE PERMITTED. THE CONCRETE FOR WALLS WITH AN AVERAGE THICKNESS OF 12 in. (300 mm) OR LESS SHALL BE PLACED WITH TUBES SO THAT DROP IS NOT GREATER THAN 5' (1.5 m).
- 4.) THE CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION, EXCEPT IN THIN SECTIONS OR INACCESSIBLE LOCATIONS WHERE CONSOLIDATION BY INTERNAL VIBRATION IS NOT PRACTICABLE.
- 5.) THE CONTRACTOR SHALL PROVIDE AND USE A SUFFICIENT NUMBER OF VIBRATORS TO ENSURE THAT CONSOLIDATION CAN BE STARTED IMMEDIATELY AFTER THE CONCRETE HAS BEEN DEPOSITED IN THE FORMS.
- 6.) THE VIBRATORS SHALL BE INSERTED INTO THE CONCRETE IMMEDIATELY AFTER IT IS DEPOSITED AND SHALL BE MOVED THROUGHOUT THE MASS SO AS TO THOROUGHLY WORK THE CONCRETE AROUND THE REINFORCEMENT, EMBEDDED FIXTURES, AND INTO THE CORNERS AND ANGLES OF THE FORMS. VIBRATORS SHALL NOT BE ATTACHED TO THE FORMS, REINFORCEMENT BARS, OR THE SURFACE OF THE CONCRETE.
- 7.) APPLICATION OF VIBRATORS SHALL BE AT POINTS UNIFORMLY SPACED AND NOT FARTHER APART THAN TWICE THE RADIUS OVER WHICH THE VIBRATION IS VISIBLY EFFECTIVE. THE DURATION OF THE VIBRATION AT THE POINTS OF INSERTION SHALL BE SUFFICIENT TO THOROUGHLY CONSOLIDATE THE CONCRETE INTO PLACE BUT SHALL NOT BE CONTINUED SO AS TO CAUSE SEGREGATION.
- 8.) CONCRETE SHALL BE PLACED IN CONTINUOUS HORIZONTAL LAYERS. WHEN IT IS NECESSARY BY REASON OF AN EMERGENCY TO PLACE LESS THAN A COMPLETE HORIZONTAL LAYER IN ONE OPERATION, SUCH LAYER SHALL TERMINATE IN A VERTICAL BULKHEAD. SEPARATE BATCHES SHALL FOLLOW EACH OTHER CLOSELY AND IN NO CASE SHALL THE INTERVAL OF TIME BETWEEN THE PLACING OF SUCCESSIVE BATCHES BE GREATER THAN 20 MINUTES.
- 9.) DO NOT ADD EXTRA MIX WATER TO THE MIX AT JOB SITE.
- 10.) PLACE CONCRETE WITHIN 90 MINUTES OF BATCHING AT THE PLANT.

**L. TESTING:**

- 1.) THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 SLUMP TEST PER DAY, 1 EVERY MINIMUM 100 CUBIC YARDS, OR AT TIMES NOT MEETING DESIGN SPECIFICATIONS ARE SUSPECTED.
- 2.) SPECIFY THAT CONTRACTOR OR PROJECT ENGINEER OR HIS REPRESENTATIVE MAY REJECT MATERIALS DEEMED UNSUITABLE, NOT MEETING SPECIFICATIONS.
- 3.) THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 BREAK TEST PER SECTION(S) OF STRUCTURE POURED.
- 4.) ALL TEST RESULTS WILL BE PROVIDED TO FWI AS SOON AS RECEIVED.

VIBRATION SPECIFICATIONS:

DIAMETER OF HEAD (Inches)	RECOMMENDED FREQUENCY (Vibrations per minute)	AVERAGE AMPLITUDE (Inches)	CENTRIFUGAL FORCE (lbs.)	RADIUS OF ACTION (Inches)	RATE OF CONCRETE PLACEMENT (yds. per hr.)
1½ - 2½	8,500-12,500	0.02-0.04	300-1000	20-32	12-45

**K. REMOVAL OF FORMS:**

- 1.) REMOVAL OF CONCRETE FORMS ARE SUBJECT TO THE EXERCISE OF GOOD JUDGMENT AND OBSERVATION OF THE CONCRETE WHEN STRIPPING OF THE FORMS START.
- 2.) AT A MINIMUM, OBSERVE THE FOLLOWING:
  - 24 HOURS SLABS ON GRADE
  - 48 HOURS WALLS AND COLUMNS
  - 144 HOURS BEAMS AND SUSPENDED SLABS
  - FOR FURTHER CONSTRUCTION TYPES NOT LISTED ABOVE, SEE ACI 347.

**L. REPAIRS TO CONCRETE:**

- 1.) ALL REPAIRS TO CONCRETE BECAUSE OF CRACKING, HONEYCOMBING, OR ANY OTHER DEFORMITY WILL BE COMPLETED ACCORDING TO: (NRCS NATIONAL ENGINEERING HANDBOOK CONSTRUCTION SPECIFICATION 31-CONCRETE FOR MAJOR STRUCTURES DATED JANUARY 2009)

**M. BACKFILLING:**

- 1.) ONCE THE CONCRETE IS PROPERLY CURED, BACK FILL CAN BE PLACED. AVOID BACK FILL CONTAINING LARGE ROCKS, HARD OR FROZEN SOIL LUMPS, OR CONSTRUCTION DEBRIS. BACK FILL SHOULD BE PLACED NO HIGHER THAN 12" FROM THE TOP OF THE WALL.
- 2.) DO NOT PLACE BACKFILL UNTIL PRECAST SLATS ARE PROPERLY IN PLACE.
- 3.) ADJACENT TO STRUCTURES AND PIPES WITHIN 2 FEET OF STRUCTURES OR PIPES, EARTH FILL SHALL BE PLACED IN 4-INCH LIFTS (PRIOR TO COMPACTION) IN A MANNER ADEQUATE TO PREVENT DAMAGE TO THE STRUCTURE AND TO ALLOW THE STRUCTURE OR PIPE TO GRADUALLY AND UNIFORMLY ASSUME THE BACK FILL LOADS. COMPACTION SHALL BE ACCOMPLISHED BY MEANS OF MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS OR HAND TAMPING UNLESS OTHERWISE SPECIFIED. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN 5 FEET OF ANY STRUCTURE OR PIPE. COMPACTION BY MEANS OF DROP WEIGHTS OPERATING FROM A CRANE OR HOIST OF ANY TYPE WILL NOT BE PERMITTED.
- 4.) LENSES OR POCKETS OF UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIALS AS DIRECTED BY THE TESTING AND INSPECTION AGENCY. THE EXTENT OR REMOVAL AND THE QUALITY OF REPLACEMENT MATERIALS WILL BE DETERMINED BY THE TESTING AND INSPECTION AGENCY.
- 5.) THE SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 1% SLOPE.

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**CONCRETING IN HOT WEATHER:**

**A. HOT WEATHER DEFINITION:**

- 1.) FOR THE PURPOSE OF THIS SPECIFICATION, HOT WEATHER IS DEFINED AS ANY COMBINATION OF HIGH TEMPERATURE, (GENERALLY ABOVE 80 DEGREES F), HIGH CONCRETE TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TENDING TO IMPAIR THE QUALITY OF FRESH OR HARDENED CONCRETE OR OTHERWISE RESULTING IN ABNORMAL PROPERTIES.
- 2.) SPECIAL PROVISIONS SHALL BE MADE TO IMMEDIATELY PROTECT AND CURE THE CONCRETE DUE TO RAPID DRYING CONDITIONS. CONCRETE SURFACES SHALL NOT BE ALLOWED TO DRY AFTER PLACEMENT AND DURING THE CURING PERIOD.
- 3.) IN EXTREME CONDITIONS, IT MAY BE NECESSARY TO (1) RESTRICT PLACEMENT TO LATE AFTERNOON OR EVENING, (2) RESURRECT THE DEPTH OF LAYERS TO ASSURE COVERAGE OF THE PREVIOUS LAYER WHILE IT WILL STILL RESOUND READILY VIBRATION, (3) SUSPEND PLACEMENT UNTIL CONDITIONS IMPROVE.

**B. PREPARATIONS FOR PLACING AND CURING:**

- 1.) **PLACING HOT WEATHER PLACEMENTS:**  
UNDER HOT WEATHER CONDITIONS, SCHEDULING CONCRETE PLACEMENTS AT OTHER-THAN-NORMAL HOURS MAY BE ADVISABLE. PERTINENT CONSIDERATIONS INCLUDE EASE OF HANDLING AND PLACING, AND MINIMIZING THE RISK OF PLASTIC SHRINKAGE AND THERMAL CRACKING.
- 2.) **EXPEDITING PLACEMENT:**  
PREPARATIONS SHOULD BE MADE TO TRANSPORT, PLACE, CONSOLIDATE, AND FINISH THE CONCRETE AT THE FASTEST POSSIBLE RATE. CONCRETE DELIVERY TO THE JOB SHOULD BE SCHEDULED SO THAT IT IS PLACED PROMPTLY ON ARRIVAL, PARTICULARLY THE FIRST BATCH.
- 3.) **PLACING EQUIPMENT:**  
EQUIPMENT FOR PLACING THE CONCRETE SHOULD BE OF SUITABLE DESIGN AND HAVE AMPLE CAPACITY TO PERFORM EFFICIENTLY.
- 4.) **CONSOLIDATION EQUIPMENT:**  
THERE SHOULD BE AMPLE VIBRATION EQUIPMENT AND WORKERS TO CONSOLIDATE THE CONCRETE IMMEDIATELY AS IT IS RECEIVED IN THE FORM. (SEE PAGE 3 ITEM H)
- 5.) **PREPARATIONS FOR PROTECTING AND CURING THE CONCRETE:**  
AMPLE WATER SHOULD BE AVAILABLE AT THE PROJECT SITE FOR MOISTENING THE SUBGRADE, AS WELL AS FOR FOGGING FORMS AND REINFORCEMENT BEFORE CONCRETE PLACEMENT. FOR MOIST CURING, USE WATER WITH A TEMPERATURE NO MORE THAN 20°F (11°C) COOLER THAN THE CONCRETE TEMPERATURE TO AVOID THERMAL SHOCK.

**C. PLACEMENT AND FINISHING:**

- 1.) **GENERAL:**  
EXPEDITIOUS PLACEMENT AND FINISHING MATERIALLY REDUCES HOT WEATHER DIFFICULTIES. DELAYS INCREASE SLUMP LOSS AND INVITE THE ADDITION OF WATER OFFSETS TO OFFSET THOSE LOSSES. THE CONCRETE SHOULD NOT BE PLACED FASTER THAN IT CAN BE PROPERLY CONSOLIDATED AND FINISHED.
- 2.) **PLACEMENT OF FLATWORK:**  
WHEN CONCRETE IS DEPOSITED FOR FLATWORK ON THE GROUND, THE SUBGRADE SHOULD BE MOIST, BUT FREE OF STANDING WATER.

**D. CURING AND PROTECTION:**

- 1.) **GENERAL:**  
IMMEDIATELY FOLLOWING COMPLETION OF FINISHING OPERATIONS, EFFORTS SHOULD BE MADE TO PROTECT THE CONCRETE FROM LOW HUMIDITY, DRYING WINDS, AND EXTREME AMBIENT TEMPERATURE DIFFERENTIAL. WHENEVER POSSIBLE, THE CONCRETE AND SURROUNDING FORMWORK SHOULD BE KEPT IN A UNIFORM MOISTURE AND TEMPERATURE CONDITION TO ALLOW THE CONCRETE TO DEVELOP ITS MAXIMUM POTENTIAL STRENGTH AND DURABILITY. PROCEDURES FOR KEEPING EXPOSED SURFACES FROM DRYING SHOULD BEGIN PROMPTLY AND CONTINUE WITHOUT INTERRUPTION. FAILURE TO DO SO CAN RESULT IN EXCESSIVE DRYING SHRINKAGE AND RELATED CRACKING. AN APPROVED CURING METHOD SHOULD BE CONTINUED FOR AT LEAST 7 DAYS. IN ADDITION, CONCRETE SURFACES SHOULD NOT BE ALLOWED TO BECOME SURFACE-DRY AT ANY POINT DURING THE TRANSITION. CONCRETE SHOULD ALSO BE PROTECTED AGAINST THERMAL SHRINKAGE CRACKING DUE TO RAPID TEMPERATURE DROPS, PARTICULARLY DURING THE FIRST 24 HOURS. THERMAL SHRINKAGE CRACKING IS ASSOCIATED WITH A COOLING RATE OF MORE THAN 5°F (3°C) PER HOUR, OR MORE THAN 50°F (28°C) IN A 24 HOUR PERIOD FOR CONCRETE WITH A LEAST DIMENSION LESS THAN 12 IN. HOT WEATHER PATTERNS INCREASE THE POTENTIAL FOR THERMAL CRACKING DUE TO VAST DAY AND NIGHT TEMPERATURE DIFFERENCES.
- 2.) **MOIST CURING OF FLATWORK:**  
A COMMON PRACTICAL METHOD OF MOIST CURING IS TO COVER THE CONCRETE WITH IMPERVIOUS SHEETING OR FABRIC MATS KEPT CONTINUOUSLY WET WITH A SOAKER HOSE OR SIMILAR MEANS. THE TEMPERATURE OF WATER USED FOR INITIAL CURING SHOULD BE AS CLOSE AS POSSIBLE TO THAT OF THE CONCRETE TO AVOID THERMAL SHOCK.
- 3.) **MEMBRANE CURING OF FLATWORK:**  
CONCRETE SURFACES EXPOSED TO DIRECT SUNLIGHT SHOULD USE HEAT-REFLECTING, WHITE-PIGMENTED COMPOUNDS WHERE APPLICABLE. FOR USE IN HOT WEATHER CONDITIONS, A MATERIAL SHOULD BE SELECTED THAT ENSURES EQUAL OR GREATER MOISTURE RETENTION THAN REQUIRED BY ASTM C309. APPLICATION OF AN APPROVED MOISTURE-RETENTIVE MATERIAL SHOULD IMMEDIATELY FOLLOW THE DISAPPEARANCE OF SURFACE WATER SHEEN AFTER THE FINAL FINISHING PASS. MOST CURRYING COMPOUNDS SHOULD NOT BE USED ON ANY SURFACE AGAINST WHICH ADDITIONAL CONCRETE OR OTHER MATERIALS ARE TO BE BONDED.

**CONCRETING IN COLD WEATHER:**

**A. COLD WEATHER DEFINITION:**

- 1.) WHEN AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELOW, 40°F (4°C) DURING THE PROTECTION PERIOD; PROTECTION PERIOD IS DEFINED AS THE TIME REQUIRED TO PREVENT CONCRETE FROM BEING AFFECTED BY EXPOSURE TO COLD WEATHER.
- 2.) WHEN THE MINIMUM DAILY ATMOSPHERIC TEMPERATURE IS LESS THAN 40 DEGREES F, CONCRETE SHALL BE INSULATED OR HOUSED AND HEATED IMMEDIATELY AFTER PLACEMENT. THE TEMPERATURE OF THE CONCRETE AND AIR ADJACENT TO THE CONCRETE SHALL BE MAINTAINED AT NO LESS THAN 50 DEGREES F NOR MORE THAN 90 DEGREES F FOR THE DURATION OF THE CURING PERIOD.
- 3.) THE CURING PERIOD MAY BE REDUCED TO 3 DAYS WHEN TYPE III CEMENT IS USED. AN ADDITIONAL 100 POUNDS OF TYPE I CEMENT AND A MAXIMUM OF 8 GALLONS OF ADDED WATER PER CUBIC YARD MAY BE USED IN LIEU OF TYPE III CEMENT.
- 4.) COMBUSTION HEATERS SHALL HAVE EXHAUST FLUE GASES VENTED OUT OF THE CONCRETE PROTECTION ENCLOSURE AND SHALL NOT BE PERMITTED TO DRY THE CONCRETE.

**B. OBJECTIVES, PRINCIPLES, AND PLANNING:**

- 1.) **OBJECTIVES:**  
-PREVENT DAMAGE TO CONCRETE DUE TO EARLY AGE FREEZING. AT 50°F (10°C), MOST WELL-PROPORTIONED CONCRETE MIXTURES REACH A COMPRESSIVE STRENGTH OF 500 psi WITHIN 48 HOURS.  
-ENSURE THAT THE CONCRETE DEVELOPS THE REQUIRED STRENGTH FOR SAFE REMOVAL OF FORMS, SHORES AND RESHORES, AND FOR SAFE LOADING OF THE STRUCTURE DURING AND AFTER CONSTRUCTION.
- 2.) **PRINCIPLES:**  
CONCRETE PROTECTED FROM FREEZING UNTIL IT ATTAINS A COMPRESSIVE STRENGTH OF 500 psi WILL NOT BE DAMAGED BY EXPOSURE TO A SINGLE FREEZING CYCLE (POWERS 1982).
- 3.) **PLANNING:**  
PLANS TO PROTECT FRESH CONCRETE FROM FREEZING AND TO MAINTAIN TEMPERATURES ABOVE THE RECOMMENDED MINIMUM VALUES SHOULD BE MADE WELL BEFORE FREEZING ARE EXPECTED TO OCCUR. EQUIPMENT AND MATERIALS SHOULD BE AT THE WORK SITE BEFORE COLD WEATHER IS LIKELY TO OCCUR, NOT AFTER CONCRETE IS PLACED AND ITS TEMPERATURE APPROACHES THE FREEZING POINT.
- 4.) **SUBGRADE CONDITION:**  
CONCRETE SHOULD NOT BE PLACED ON FROZEN SUBGRADE. REMOVE ALL FROST BEFORE PLACING THE CONCRETE AND RECOMPACT THAWED SOIL DISTURBED BY FROST. PLACEMENT OF INSULATION OVER THE SUBGRADE, OR PROVISION OF HEAT, IS REQUIRED TO REMOVE ANY FROST IN THE SOIL AND RAISE THE SUBGRADE TEMPERATURE ABOVE 32°F. WHEN THE CONCRETE TEMPERATURE IS MORE THAN 10°F COOLER OR 5°F WARMER THAN THE SUBGRADE, DIFFERENTIAL RATES OF SETTING BETWEEN THE TOP AND BOTTOM OF THE SLAB MAY RESULT IN VARIOUS SURFACE DEFECTS INCLUDING PLASTIC SHRINKAGE CRACKING, BUSTERING, AND DELAMINATIONS.

**C. TEMPERATURE DROP AFTER REMOVAL OF PROTECTION:**

- 1.) AT THE END OF THE PROTECTION PERIOD, CONCRETE SHOULD BE COOLED GRADUALLY TO REDUCE CRACK-INDUCING DIFFERENTIAL STRAINS BETWEEN THE INTERIOR AND EXTERIOR OF THE STRUCTURE. THE TEMPERATURE DROP OF CONCRETE SURFACES SHOULD NOT EXCEED THE RATES INDICATED IN TABLE 1.

**D. EQUIPMENT, MATERIALS, AND METHODS OF TEMPERATURE PROTECTION:**

- 1.) **INTRODUCTION:**  
THE TEMPERATURE OF CONCRETE PLACED DURING COLD WEATHER SHOULD BE MAINTAINED AS CLOSE AS POSSIBLE TO THE RECOMMENDED TEMPERATURES IN LINE 1 OF TABLE 1 AND FOR THE LENGTHS OF TIME RECOMMENDED IN TABLE 2 UNTIL THE IN-PLACE STRENGTH HAS REACHED A PREVIOUSLY ESTABLISHED TARGET VALUE.
- 2.) **INSULATING MATERIALS:**  
HEAT OF HYDRATION IS RETAINED BY USING INSULATING BLANKETS ON UNFORMED SURFACES AND BY USING INSULATING FORMS. TO BE EFFECTIVE, KEEP INSULATION IN CLOSE CONTACT WITH THE CONCRETE OR THE FORM SURFACE.

TABLE 1 RECOMMENDED CONCRETE TEMPERATURES

LINE	AIR TEMPERATURE	SECTION SIZE MINIMUM >72 in.(1800 mm)
1	-	40°F(5°C)
2	ABOVE 30°F(-1°C)	45°F(7°C)
3	0°-30°F(-18to-1°C)	50°F(10°C)
4	BELOW 0°F(-18°C)	50°F(13°C)
5	-	20°F(11°C)

TABLE 2 LENGTH OF PROTECTION PERIOD FOR CONCRETE PLACED DURING COLD WEATHER

LINE	SERVICE CONDITION	PROTECTION PERIOD AT MINIMUM TEMPERATURE INDICATED IN LINE 1 OF TABLE 1 OF THIS SPECIFICATION (NORMAL SET CONCRETE), DAYS*
1	NO LOAD, NOT EXPOSED	2
2	NO LOAD, EXPOSED	3
3	PARTIAL LOAD, EXPOSED	6
4	FULL LOAD	-

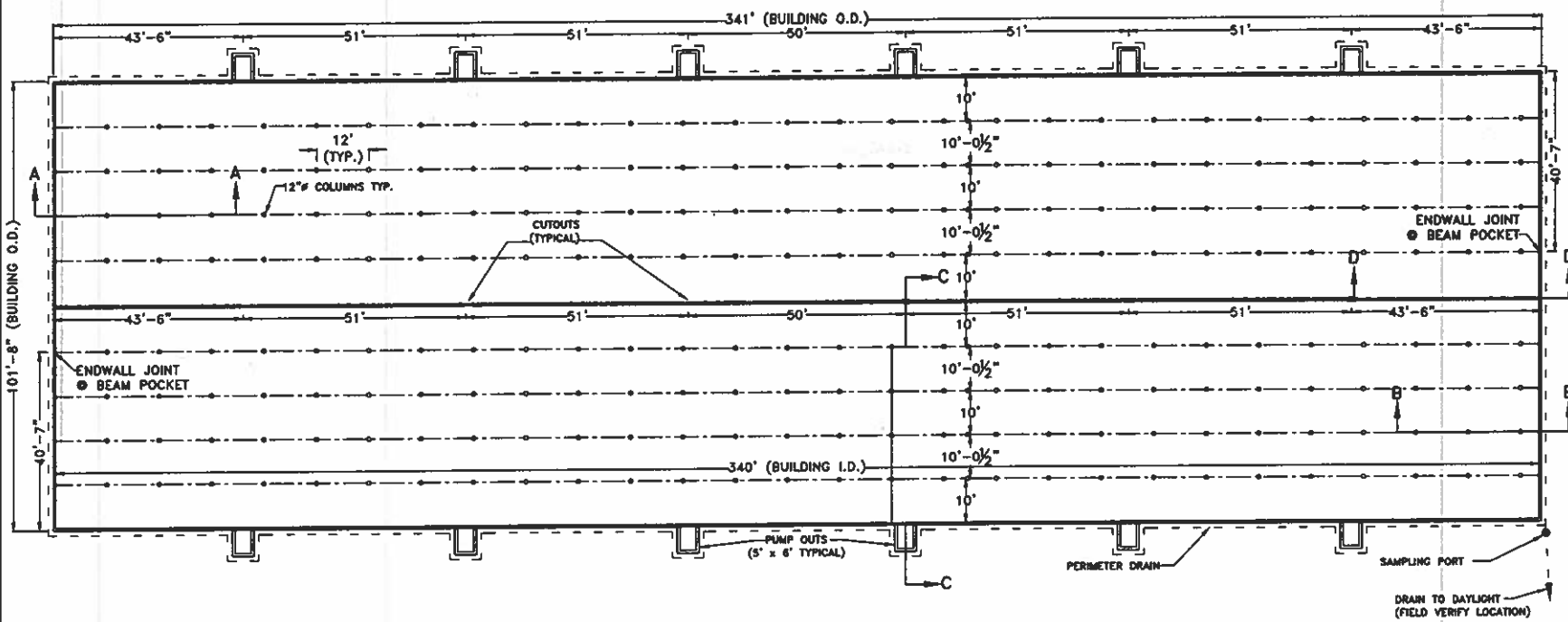
\*A DAY IS A 24 HOUR PERIOD.

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**PARKS LIVESTOCK**  
**CONSTRUCTION NOTES**

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**GENERAL NOTES**

- 1.) ANY REVISIONS TO THESE DRAWINGS MUST BE APPROVED BY THE PROJECT ENGINEER OF THE COMPANY LISTED IN THE TITLE BLOCK.
- 2.) CONCRETE CONSTRUCTION SHALL MEET WITH MIDWEST PLAN SERVICE-36, CONCRETE MANURE STORAGES UNLESS NOTED OTHERWISE.
- 3.) NO CONCRETE SHALL BE PLACED ON ICE, SNOW OR FROZEN FOUNDATION MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE DAMAGED BY LOW TEMPERATURES AND SHALL REMOVE AND REPLACE ANY CONCRETE SO DAMAGED AT HIS/HER EXPENSE.
- 4.) THE METHOD AND MANNER OF PLACING CONCRETE SHALL BE SUCH AS TO AVOID SEGREGATION OR SEPARATION OF THE AGGREGATES OR THE DISPLACEMENT OF THE REINFORCEMENT.
- 5.) THE FOOTINGS ARE TO BE CONSTRUCTED WITH A MINIMUM OF 3,000 PSI CONCRETE.
- 6.) ALL WALLS, COLUMNS, AND FLOORS ARE TO BE CONSTRUCTED OF 4,000 PSI CONCRETE.
- 7.) CONCRETE SLATS WILL BE UTILIZED FOR FLOORING.
- 8.) THE CONCRETE PAD WILL BE A CONTINUOUS POUR.
- 9.) EXTERIOR WALL CONSTRUCTION JOINTS WILL BE INSTALLED AT 100' O.C. MAXIMUM, UNLESS OTHERWISE NOTED.
- 10.) NO VEHICLE LOADS ALLOWED WITHIN 5' OF PIT/GUTTER WALLS.
- 11.) ALL BEAMS SHALL BE BUTTED TIGHT AND/OR GROUTED TIGHT THE FULL WIDTH AND HEIGHT OF THE BEAM. GROUT WILL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI.
- 12.) ALL SLATS SHALL BE BUTTED TIGHT AND/OR GROUTED TIGHT THE FULL LENGTH AND DEPTH OF THE SLAT. GROUT WILL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI.
- 13.) NO PIPE PENETRATIONS OTHER THAN THE TYPES IDENTIFIED ON THESE DRAWINGS ARE ALLOWED. ALL WALL AND FLOOR PENETRATIONS, INCLUDING PIPE PENETRATIONS MUST BE APPROVED BY THE PROJECT ENGINEER.
- 14.) THE PRESUMED SOIL BEARING CAPACITY IS 2,000 LBS./SQ. FT., BASED ON HRC'S CODE 313-3 TABLE 2.
- 15.) THE DESIGN OF THIS BUILDING IS BASED ON THE 2,000 LBS./SQ. FT. SOIL BEARING.
- 16.) WATERSTOP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

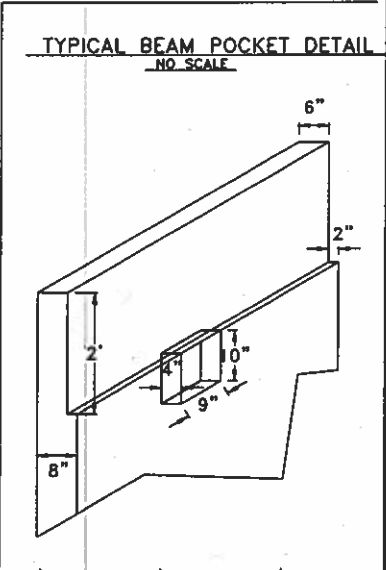
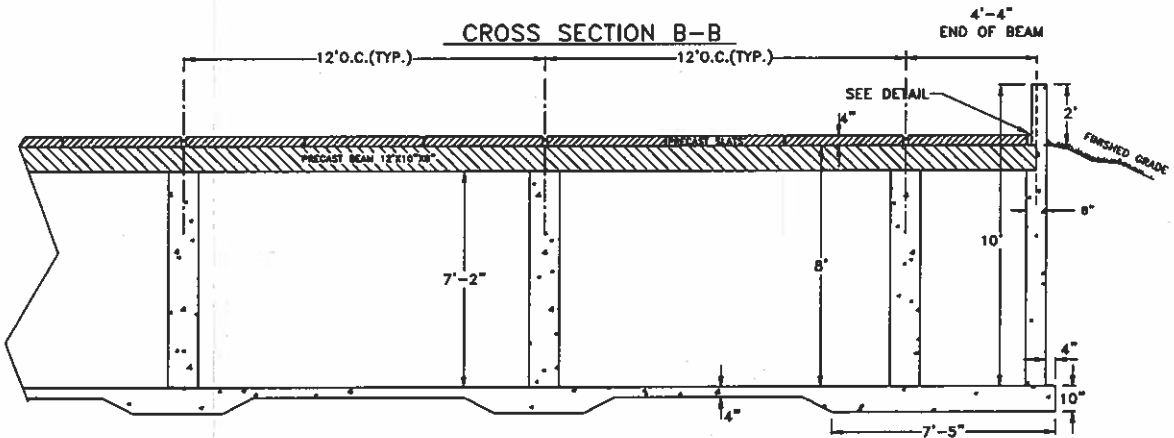
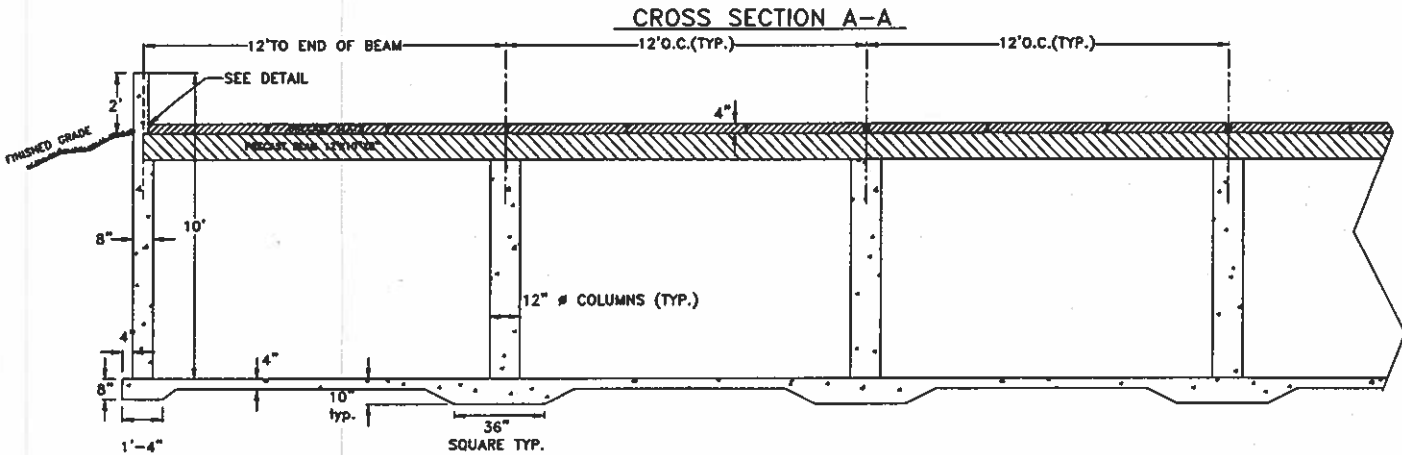
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**PARKS LIVESTOCK**  
**PLAN VIEW**  
DRAWN BY: CEO

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-  PRECAST SLATS
-  PRECAST BEAMS
-  CONCRETE POURED ON SITE

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CROSS SECTIONS A-A & B-B

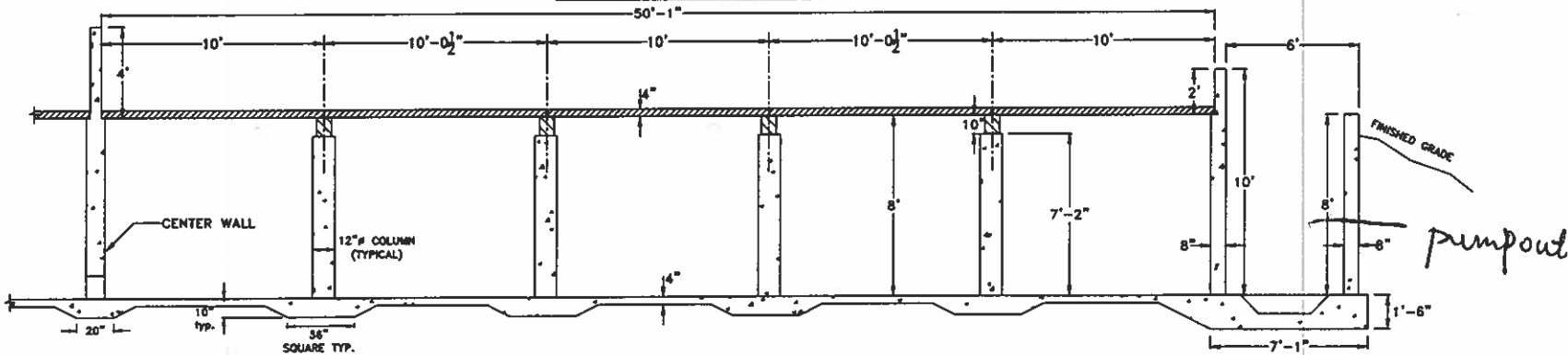
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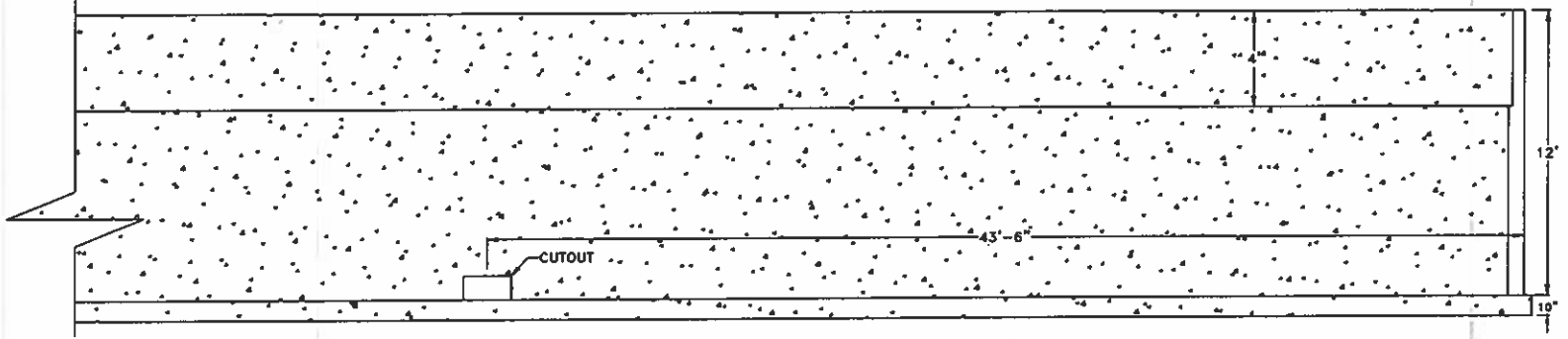
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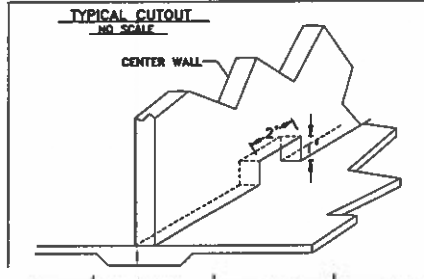
CROSS SECTION C-C



CROSS SECTION D-D



-  PRECAST SLATS
-  PRECAST BEAMS
-  CONCRETE POURED ON SITE



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CROSS SECTIONS C-C & D-D  
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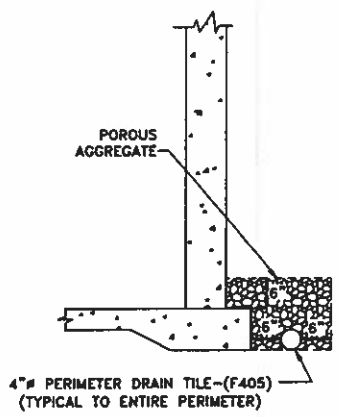
SCALE: AS SHOWN | DATE: 08/22/17 | REVISED ON: XX/XX/XX | DRAWING NO. 17-15103

Electronic Filing: Received, Clerk's Office 05/15/2019 \*\*PCB 2019-107\*\*

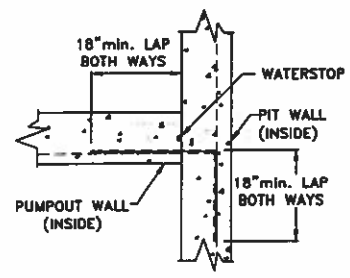




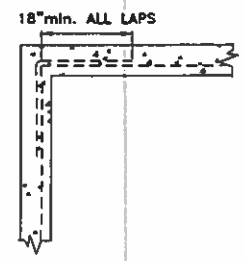
FOUNDATION DRAIN DETAIL



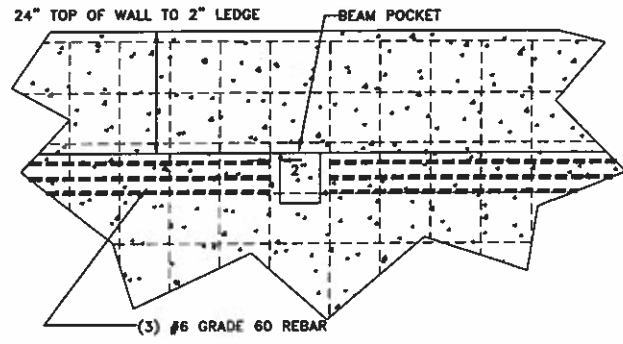
PUMPOUT TIE-IN PLAN VIEW



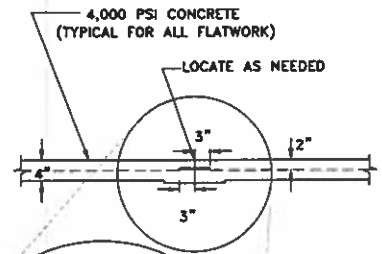
CORNER TIE-IN



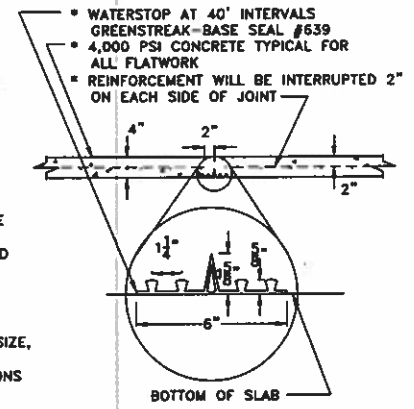
REINFORCEMENT DETAIL AT BEAM POCKET



FLOOR CONSTRUCTION JOINT



FLOOR CONTROL JOINT



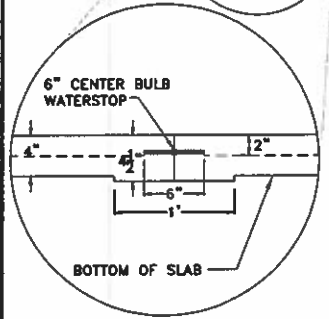
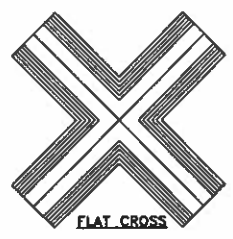
BASE SEAL & CENTER BULB WATERSTOP WELD DETAIL

(NO SCALE)

-APPLIES TO NO OTHER WATERSTOP TYPES

SPLICE FABRICATIONS

- 1.) PROVIDE FACTORY FABRICATED WATERSTOP CORNERS AND TRANSITIONS LEAVING ONLY STRAIGHT BUTT JOINT SPLICES FOR FIELD FABRICATION, UNLESS SPECIFICALLY APPROVED IN WRITING BY THE MANUFACTURER AND PERFORMED IN ACCORDANCE WITH THEIR SPECIFICATIONS.
- 2.) USE ONLY A SPLICING IRON SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR HEAT FUSED WELDING OF ALL SPLICES.
- 3.) WELDS ARE TO EXHIBIT A CONTINUOUS BEAD OF EXCESS MELTED MATERIAL, FREE OF DEFECTS.
- 4.) SPLICES ARE TO BE HEAT WELDED WITH THE CENTER BULB AND RIBS ALIGNED.
- 5.) ADHESIVES, SOLVENTS, LAP JOINTS, AND EDGE WELDING ARE NOT ACCEPTABLE.
- 6.) EMBEDDED WATERSTOPS MAY NOT BE WELDED OR JOINED TO OTHER WATERSTOPS OF DIFFERENT SIZE, CONFIGURATION, OR MATERIAL.
- 7.) ALL SPLICE FABRICATIONS SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS



**Frank & West**  
Environmental Engineers, Inc.

1023 S 2nd Street  
Springfield, IL 62704

Phone: 217/879-7361  
Fax: 217/879-8362

PARKS LIVESTOCK

DETAIL SHEET #3

DRAWN BY: CEO

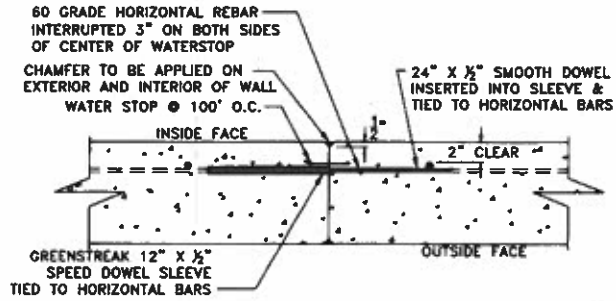
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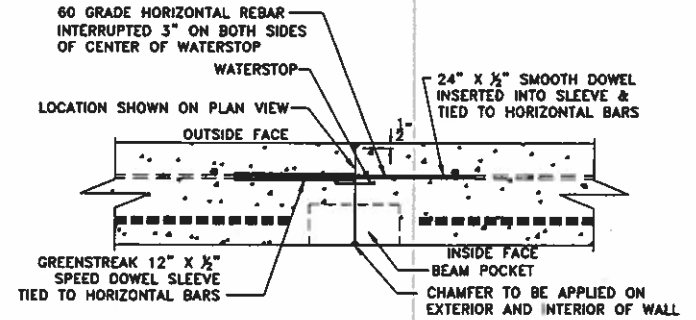
SIDEWALL JOINT TOP VIEW

(NO SCALE)



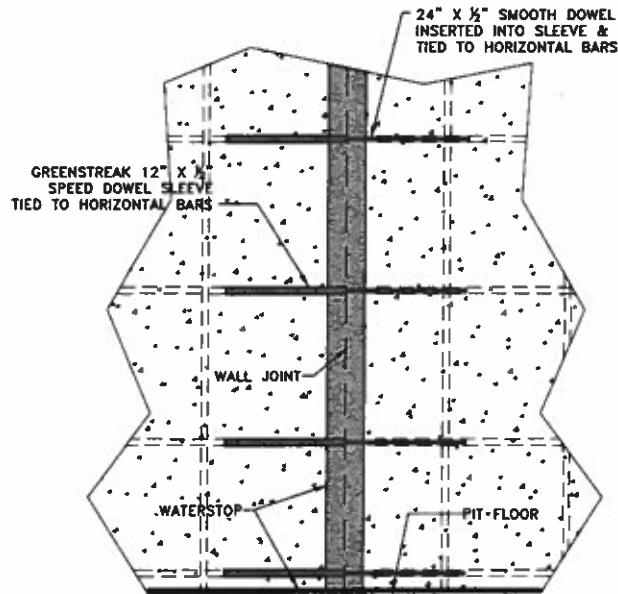
ENDWALL JOINT TOP VIEW

(NO SCALE)



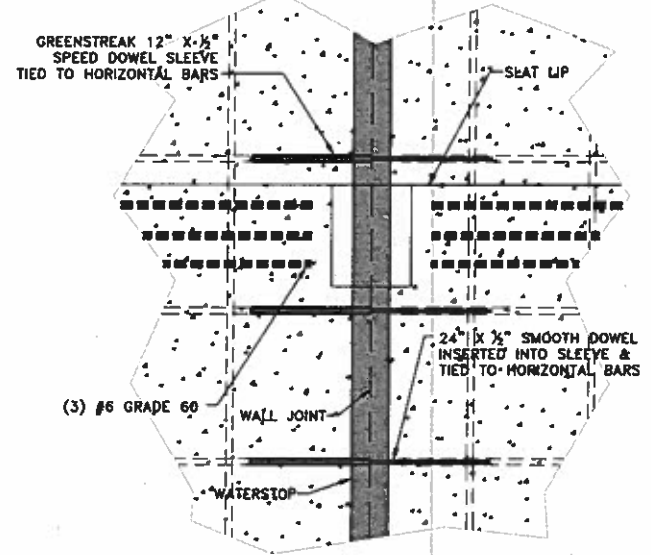
SIDEWALL JOINT SIDE VIEW

(NO SCALE)



ENDWALL JOINT SIDE VIEW

(NO SCALE)



2'

**Frank & West**  
 Environmental Engineers, Inc.  
 1023 S 2nd Street  
 Springfield, IL 62704  
 Phone: 217/679-7361  
 Fax: 217/679-8362

PARKS LIVESTOCK  
 DETAIL SHEET #4  
 DRAWN BY: CEO

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Electronic Filing: Received, Clerk's Office 05/15/2019 \*\*PCB 2019-107\*\*



**Han, Wei**

---

**From:** Nicole Crites <nicole.crites@parkslivestock.com>  
**Sent:** Thursday, October 25, 2018 3:07 PM  
**To:** Han, Wei  
**Subject:** RE: [External] RE: Park Finishing E3, LLC TC-140357  
**Attachments:** doc04984820181025150517.pdf

---

Wei,

I appreciated our conversation yesterday as well. I've attached the diagram with the proper entity name and log numbers.

As soon as I hear from the tax assessor's office, I'll let you know the property index numbers.

Thanks and have a nice evening!

Nicole

---

**From:** Han, Wei <Wei.Han@Illinois.gov>  
**Sent:** Wednesday, October 24, 2018 2:13 PM  
**To:** Nicole Crites <nicole.crites@parkslivestock.com>  
**Subject:** RE: [External] RE: Park Finishing E3, LLC TC-140357

Hi, Nicole

Nice talking to you. Here are the log number for all three property

E1: TC-140355  
E2: TC-140356  
E3: TC-140357

The three sites are assigned to three reviewers. For convenience of communication, you can sent all missing information to me under different site name and log number.

Thanks,

Wei Han  
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  
Email: [Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)

---

**From:** Nicole Crites <nicole.crites@parkslivestock.com>  
**Sent:** Wednesday, October 24, 2018 11:11 AM

To: Han, Wei <[Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)>  
Subject: [External] RE: Park Finishing E3, LLC TC-140357

Good Morning,

Please see below with answers to your questions. If you have further questions or need additional information, please let me know.

Thanks,  
Nicole

---

From: Han, Wei <[Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)>  
Sent: Wednesday, October 17, 2018 10:46 AM  
To: [nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)  
Subject: Park Finishing E3, LLC TC-140357

Hi, Nicole Crites

The application for Illinois Property Tax Certification received September 25, 2018 for the subject facility has been reviewed and the following information is missing from the application:

Property index number. If the facility has not been assigned an ID#, please provide the property ID# of the land where the facility is located. GIS PIN's are not available yet with Parks Finishing E1, E2 or E3 listed accordingly as the owner of the properties. I have the GIS PIN's for the previous owners but not for us.

A diagram showing the flow of livestock waste from the initial animal waste collection or containment area through all pollution control facilities to final disposal on cropland. An example diagram is attached for your reference. This example would be correct for the Parks Finishing E1, E2 and E3 applications.

Please verify that only Manure Pit 1 is to be certified. Both pits should be certified for each entity/site.

Please provide the information listed above so the Agency can complete the review of the subject application. Please include the log number TC-140357 on all correspondence.

If you have any questions or comments concerning the above items, please contact me.

Wei Han  
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  
Email: [Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)

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**Han, Wei**

---

**From:** Nicole Crites <[nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)>  
**Sent:** Tuesday, October 30, 2018 9:20 AM  
**To:** Han, Wei  
**Subject:** RE: [External] FW: Park Finishing E3, LLC TC-140357

Great, thanks!

---

**From:** Han, Wei <[Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)>  
**Sent:** Tuesday, October 30, 2018 9:16 AM  
**To:** Nicole Crites <[nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)>  
**Subject:** RE: [External] FW: Park Finishing E3, LLC TC-140357

I got it and have forwarded it to other reviewers. Thanks.

---

**From:** Nicole Crites <[nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)>  
**Sent:** Monday, October 29, 2018 4:03 PM  
**To:** Han, Wei <[Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)>  
**Subject:** [External] FW: Park Finishing E3, LLC TC-140357

Wei,

In today's mail, we received the parcel ID numbers for Parks Finishing E1, E2 and E3. They are included as the second attachment.

If you have any questions, please let me know.

Thanks,  
Nicole

---

**From:** Nicole Crites <[nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)>  
**Sent:** Wednesday, October 24, 2018 11:11 AM  
**To:** 'Han, Wei' <[Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)>  
**Subject:** RE: Park Finishing E3, LLC TC-140357

Good Morning,

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Thanks,  
Nicole

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**Sent:** Wednesday, October 17, 2018 10:46 AM  
**To:** [nicole.crites@parkslivestock.com](mailto:nicole.crites@parkslivestock.com)  
**Subject:** Park Finishing E3, LLC TC-140357

Hi, Nicole Crites

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If you have any questions or comments concerning the above items, please contact me.

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Illinois Environmental Protection Agency  
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Phone: 217-524-3034  
Email: [Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)

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**Vermilion County, Illinois**  
**Matthew R. Long**  
**Supervisor of Assessments**  
**201 N Vermillion - 3rd Floor**  
**Danville, IL 61832**

**Office Hours**  
 8:00 a.m. – 4:30p.m.  
 Monday – Friday  
 (217)554-1940  
 for more information, go to:  
[www.vercounty.org/SupAssm.htm](http://www.vercounty.org/SupAssm.htm)

**ASSESSMENT CHANGE NOTIFICATION**

**Name & Mailing Address:**

**Date:** 10/24/2017  
**Phone:** 217-554-1940

PARKS FINISHING E3, LLC,  
 191 S HENNING RD  
 DANVILLE, IL 61834

**Legal Tract No:** BTLR0295AA  
**Parcel No:** 06-01-400-005  
**Township:** Butler

**Legal Description:**

**Site Address:**

S 2RDS W2 SW4 & W418.5 S557.05 AVG E2 SW4 1  
 22 14

**This Valuation Changed by the Office of: SUPERVISOR OF ASSESSMENTS**  
**IF YOU HAVE QUESTIONS, PLEASE CONTACT THE SUPERVISOR OF ASSESSMENT'S OFFICE**  
**Reason for Assessment Value Change: PER S OF A, FARMLAND RECALCULATION, NEW CONSTRUCTION**

**2018 Assessment – Taxes payable in 2019**

	<b>LAST YEAR'S ASSESSMENT:</b>	<b>ASSESSMENT CHANGED FROM:</b>	<b>ASSESSMENT CHANGED TO:</b>
Land/Lot	0	0	0
Farm Land	0	0	231
Residence or Bldg	0	0	0
Farm Building	0	0	815,000
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>815,231</b>

**The percentage change from the previous assessed value to the current assessed value is: 81523000.00%**  
**The full fair market value of your assessed property is: 0**

Note: The fair market value is calculated by adding the residence value and the land/lot value and dividing by the median percentage. 33.33%  
 Real property, other than farmland, farm buildings, and coal is required to be assessed at 33 1/3 of its fair cash value and is subject to equalization to ensure uniformity within counties and between counties.

The current year assessed value in the 3<sup>rd</sup> column is subject to equalization by the Chief County Assessment Officer, changes and equalization by the Board of Review, equalization by the state, and the subtraction of homestead exemptions, before it is used to compute your tax bill. Your tax bill is calculated by multiplying the property's final taxable value by the applicable tax rates. The tax rates are determined using the levies submitted by the taxing districts in which the property is located.

Property owners who question their assessments are encouraged to first request an informal review with the Township Assessor. If the property owner still believes the property is inaccurately assessed, they may file an assessment complaint with the Vermilion County Board of Review prior to the thirty days after the publication of the assessment roll. We anticipate this date of publication will be on or about October 24th or 25th.

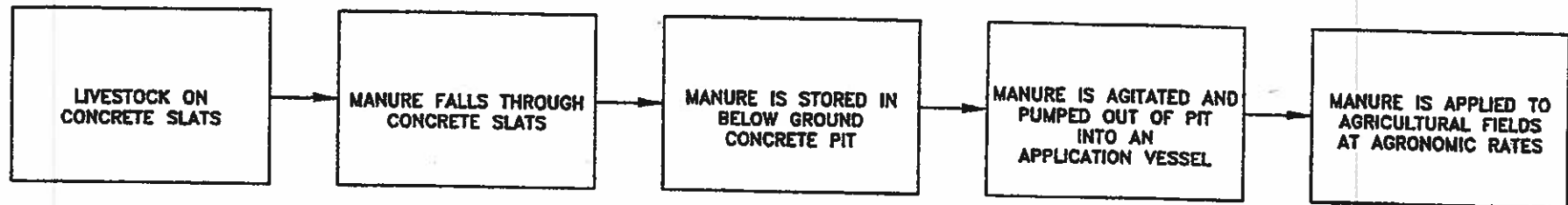
A property owner must provide evidence to support an assessment review/appeal. This evidence should include but is not limited to assessment / sales of comparable properties, appraisals, or confirmed sale information for the property, assuming no unusual circumstances. To receive a copy of the Board of review rules please call 217.554.1952 or visit the Board's website at [www.vercounty.org/brdrev.htm](http://www.vercounty.org/brdrev.htm)

If property owners are not satisfied with the board of review decision they may request a hearing before the Board of Review. At the hearing, the property owner is given the opportunity to explain their case and submit additional evidence. After the hearing, the Board will render a decision. The decision is mailed to the property owner after all Board of Review action is completed for the tax year.

**THIS PARCEL MAY BE ELIGIBLE FOR HOMESTEAD EXEMPTIONS PROVIDED BY SECTION 15-165 THROUGH 15-175 & SECTION 15-180 OF THE PROPERTY TAX CODE**

Parks Finishing E3, LLC  
TC-140357

POLLUTION CONTROL FACILITY  
PROCESS FLOW DIAGRAM



STATE OF ILLINOIS

COUNTY OF SANGAMON

)  
)  
)  
)  
)

**CERTIFICATE OF SERVICE**

I, the undersigned attorney at law, hereby certify that I have served on the date of May 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:

Nicole Crites  
191 S. Henning Road  
Danville, Illinois 61832

**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**