Electronic Filing - Received, Clerk's Office: 07/25/2014 - * * * PCB 2015-013 * * *

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Bell Pat Brad Walk
(Property Indentification Number
06-31-100-002)
) (Tax Certification
) Water)

NOTICE

Clerk

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

Patrick Walk RR #1 Box 133A Sigel, IL 62462

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

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an <u>APPEARANCE AND THE RECOMMENDATION</u> of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION `AGENCY

Зу: __

Vera Herst

Assistant Counsel

Division of Legal Counsel

DATED: July 25, 2014

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

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Bell Pat Brad Walk	·)
(Property Indentification Number) PCB 015-
06-31-100-002)) (Tax Certification
) Water)

APPEARANCE

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

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Vera Herr

Vera Herst Assistant Counsel

Division of Legal Counsel

DATED: July 25, 2014 Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (217)782-5544

Electronic Filing -	- Received,	Clerk's Office :	07/25/2014 - 3	* * * PCB 2015-013 * * [;]
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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Bell Pat Brad Walk)
(Property Indentification Number) PCB 015-
06-31-100-002)) (Tax Certification
) Water)

RECOMMENDATION

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, 35 Ill. Adm. Code 125.204.

- On April 23, 2013, the Illinois EPA received a request from Bell Pat Brad Walk (log number TC-09-13, 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 applicant states there is no mailing address for the facility.
- The proposed water pollution control facilities in this request are located at Section 31, T10N,
 R67 of 3rd PM in Cumberland County, and consist of the following:
 - Livestock waste management facilities consisting of one concrete manure pit (168 ft. x 61 ft. x 8 ft. 2 inches deep) with slotted floors beneath the building to collect swine waste.
 - These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application, and are further described in Exhibit A.
- 4. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2012), defines "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: (a) eliminating, preventing, or reducing air or water pollution

- ...or (b) 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."
- 5. Pollution control facilities are entitled to preferential tax treatment, 35 ILCS 200/11-5.
- 6. Based on the information in the application and the purpose of the facilities, 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.

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

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

y. Vea

Assistant Counsel

Division of Legal Counsel

Dated: July 25, 2014 Illinois Environmental Protection Agency 1021 North Grand Ave. E. P.O. Box 19276 Springfield, Illinois 62794-9276

217/782-5544

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397 PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

Memorandum

To:

Al Keller, Manager, Permit Section alle will be for the July 16, 2014

Date:

July 16, 2014

Re:

Patrick Walk

Sigel, IL

Recommendation of Tax Certification

Log # TC-09-13

Property ID # 06-31-100-002

The Bureau of Water received a request on April 23, 2013 from Patrick Walk for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 II. Adm. Code 125.204. We offer the following recommendation.

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

Patrick Walk Swine Facility Sigel, Illinois

Section 31, T10N R7E of the 3rd PM in Cumberland County

Livestock waste management facilities consisting of one concrete manure pit (168 ft. x 61 ft. x 8 ft. 2 in.) with slotted floors beneath the building to collect swine waste. These livestock waste management facilities are used to collect, transport, and/or store livestock wastes prior to cropland application.

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

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax eertification 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 Jenny Larsen at 217/782-0610.

SAK:JML:Tax Certs\AgChem\LogTC-09-13.docx

cc:

Tax Cert File

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Watershed Unit Tax Certification Review Sheet

Project Name: None	Date: June 30, 2014
Reviewer: Jenny Larsen	Type: Agchem X Livestock
Log number: TC-09-13	Contact: Patrick Walk
Applicant: Patrick Walk RR #1 Box 133 A Sigel, IL 62462	Phone: (217)844-2446
Facility:	Property ID: 06-31-100-002 County: Cumberland
Legal Description: S: 31 T: 10N R: 7E PM: 3rd	Signature: Patrick Walk
Date Control Devices installed: 08/2012	Title: partner
Location: Big Spring, IL	Provided Fair cash Value: \$400,000
Wastes: X Livestock waste is applied to cropland. Agrichemical rinsate and spillage is recommendate. Other: Physical Description of Pollution Control Devices:	ycled through the facility and/or land applied.
A swine finishing building (168 ft. x 61 ft.) with slated f	·
The primary purpose for this structure is to store swin	e waste thereby eliminating waste runoff.
Recommended Action: Permit the above mentioned s	tructures.
(On 6/30/2014 at 2:30pm: I spoke with Patrick Walk w beneath the swine finishing building and that the swin cropland. I also asked him for the facility address but this site and it wasn't within any city limits.)	e waste is then collected and applied to the
(On 7/15/2014 at 11:13 am: I spoke with Patrick Walk manure pit to be certified as a pollution control facility	, , , , ,

drg/taxcert review sheet



Bureau of Water P.O. Box 19276 Springfield, IL 62794-9276

Tax Certification Program for **Livestock Waste Management Facilities**

As an incentive for livestock producers to construct waste storage structures and other structures which prevent water pollution the Agency administers a tax certification program, which reduces the property tax value for many pollution control improvements. In order to recognize this tax reduction, the producer must have the improvement certified by the Illinois Environmental Protection Agency (Illinois EPA) as a pollution control facility.

Various facilities have been determined to meet the definition of a pollution control facility for livestock waste management. The following are examples of pollution control facilities for livestock waste management.

- 1. Manure pits under confined animal feed structures.
- 2. Slatted floors over manure pits.
- 3. Floors (not in feeding areas) specifically designed to collect and transport livestock wastes to liquid waste storage facilities.
- 4. Liquid livestock waste storage facilities including, but not limited to: tanks, lagoons, and holding ponds.
- 5. Dry manure stacking structures.
- 6. Feedlot runoff sediment capture basins.
- 7. Vegetative filter systems including, but not necessarily limited to those components designed, constructed and operated pursuant to Title 35 Illinois Administrative Code, Subtitle E. Chapter 11, Part 570 titled Design and Maintenance Criteria Regarding Runoff Field Application Systems adopted August 3, 1982.
- 8. Structures or other devices used specifically to divert uncontaminated runoff and roof drainage away from animal feeding facilities so as to minimize the production of feedlot runoff.
- 9. Roof structures specifically intended to prevent precipitation from entering livestock waste storage facilities provided that such a roof shall meet the requirement that animal feeding operations are not and also could not be normally conducted below said roof.
- 10. Building or structure walls specifically intended to support those roof structures described in item #9
- 11. Tanks or other similar structures, such as methane digesters, that are specifically designed, constructed and operated for the only purpose of reducing odors from livestock wastes provided that such facilities shall meet the requirement that methane or products other than processed animal manures are not produced or collected for utilization in any purpose other than the normal operation of the facility.
- 12. Specific appurtenances to those facilities listed above such as pumps, pump pits, manure scrapers, ramps, manure stackers, or other devices provided that such appurtenances are designed, constructed and operated for the primary purpose of the normal operation of the pollution control facility.
- 13. Other facilities that meet the definition of a pollution control facility.

Once Illinois EPA has certified that the improvements made by the producer qualify as a pollution control facility, the Agency submits a copy of the certification to the producer and the Illinois Department of Revenue (IDOR). The IDOR assumes authority from the county tax assessment office to assess the value of the certified facilities upon remaining useful lifetime and the salvage value (usually property are based upon fair cash value). This reduces the assessed value of the certified facilities and, therefore, the property tax.

The date upon which the Illinois EPA received an application form from a producer determines the first assessment year that the IDOR assumes assessment jurisdiction from the county.

Pollution control facilities certified by the Illinois EPA will be assessed by the IDOR as of January 1 of the year after Illinois EPA's receipt of the tax certification application. For instance, if an application is received by the Illinois EPA on January 1, 1999, or December 31, 1999, both would come under the IDOR's assessment jurisdiction as of January 1, 2000.

 $\text{Electronic Filing - Received, Clerk's Office: } 07/25/2014_{0\overline{3}:14:07\,\text{p.m}} \text{PCB}_{4}2015_{7}013~*~*~*_{3/4}$

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY AIR ☐ WATER ☐

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY P. O. Box 19276, Springfield, IL 62794-9276

This Agency is authorized to request this information under Illinois Revised Statues, 1979, Chapter, 120, Section 802a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

	FOR AGENCY USE			
File No.		5	210	
Sec. A	Date Received Certification No.		31e	
000,7	Company Name BELL PRE-BRAD WALA	PATRICA		
	Person Authorized to Receive Certification	Person to Contact for Addit	ional Details	
	Street Address, g	Street Address		
		Municipality, State & Zip Co	nda.	
FNA	Municipality, State & Zip Code SIGEC TIL	62462	AGE .	
APPLICANT	Telephone Number, 217-844-2446	Telephone Number		
व	Location of Eaglibe	Municipality T	ownship	
	Quarter Section Township Range	and the same of th	IE SPRING	
	Street Address	County B	look Number	
	Property Identification Number	CUMBERAM)		σ
	Property Identification Number	Parcel Number -3/-	100-002	Κ,
Sec. B	Nature of Operations Conducted at the Above Location SWINE FACLLITY			
	SWINE PHOLICITY			
NS SNS	Water Pollution Control Construction Permit No.	Date Issued		
ACTL	() P			
MANUFACTURING OPERATIONS	NPDES PERMIT No.	Date Issued	Expiration Date	
ž	Air Pollution Control Construction Permit No.	Date Issued		
	Air Pollution Control Operating Permit No.	Date Issued	Salley Alled Act	
	Air Pollution Control Operating Permit No.	Date issued	b) Tax Cirily	
Sec. C	Describe Unit Process		APR 2 3 20	13
			MIN 2 9 20	13
FACTURING	SWawa Foreact	477101NA	BOWWPC/PERMIT 5	ECTION
CTUI	Materials Used in Process		DOWN OF ERMIT S	ECHON
MANUFA				
¥			Annual Control of Cont	
	REINFORCED SI	MURETE		
Sec. D	Describe Pollution Abatement Control Facility		A 19	
TROL	Reinforced conficte W/	waterstop o	all l	
SCRIF		•		
POLLUTION CONTROL FACILITY DESCRIPTION	joints built accordin	na to TDA	A 500 35	
OLLU				
9 4				

217 782 9891 Electronic Bilings Wedeived, Clerk's Office: 07/25/20140#:14:25 p.mPCB420154013 * * * * 4/4

Sec. E	(1) Nat	ure of Contaminants or Pollutant	S			***************************************
	Material Retained, Captured or Recovered				red	
5	Contac	ninant or Pollutant	DESCRIPTION		DISPOSAL OR	
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ر م	(2) Poi	nt(s) of Waste Water Discharge	3			
Ĕ	<u> </u>		Plans and Specifications	Attached	Yes 🖸	No 🗆
00	(3)	Are contaminants (or residues) co			Yes 🖾	No 🗆
Q			acr 2 status of installation of	n date of a	pplication	
Į.¥		. FAIR CASH VALUE IF CONSID	ERED REAL PROPERTY:		\$ 400.00	11100
POLLUTION CONTROL FACILITY – ACCOUNTING DATA		. NET SALVAGE VALUE IF CONS	SIDERED REAL PROPERTY:		\$ 401 1	11/ 1200
TING			INCOME OF CONTROL FACILITY:		\$ 2501	dd Val
Nno			COME OF CONTROL FACILITY:		\$ 45.00	1) 13 11
∆O ∀			ILITY BEARS TO WHOLE FACILITY	VALUE	13170	17 //
			ordance with the Illinois Property Tax		21	
SIGNATURE 98	knowled	dge, is true and correct. The facilities	claimed herein are "pollution control	facilities" as	defined in Section	on 11-10 of the
NS	170	with warn	<u> varenz</u>			
0,	Signati	ure	Title			
Sec. G		INSTRUCT	TONS FOR COMPILING AND FILING APP	PLICATION		
		General: Separate applications must be completed for each control facility claimed. Do not mix types (water and air). Where both air and water operations are related, file two applications. If attachments are needed, record them consecutively on an index sheet.				
	Sec. A	Sec. A Information refers to applicant as listed in the tax records and the person to be contacted for further details or for inspection of facilities. Define facility location by street address or legal description. A plat map location is required for facilities located outside of municipal boundaries. The property identification number is required.				
	Sec. B	C. B Self-explanatory. Submit copies of all permits issued by local pollution control agencies. (e.g. MSD Construction Permit)				
	Sec. C	relets to manufacturing processes of materials on which policities control facility is used.				
	Sec. D Narrative description of the pollution control facility, indicating that its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility. State permit number, date, and agency issuing permit. A narrative description and a process flow diagram describing the pollution control facility. Include a listing of each major piece of equipment included in the claimed fair cash value for real property. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency.					
INSTRUCTIONS	Sec. E	List air contaminants, or water pollution substances released as effluents to the manufacturing processes. List also the final disposal of any contaminants removed from the manufacturing processes, item (1) — Refers to pollutants and contaminants removed from the process by the pollution control facility, item (2) — Refers to water pollution but can apply to water-carried wastes from air pollution control facilities. 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. Item (3) — If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value in dollars reclaimed by sale or reuse of the collected substances. State the cost of reclamation and related expense. Item (4) — State the date which the pollution control facility was first placed in service and operated. If not, explain. Item (5) — This information is essential to the certification and assessment actions. This accounting data must be completed to activate project review prior to certification by this Agency.			mit drawings, the control is, and the value ase.	
	Sec. F	Self-explanatory, Signature must be	a corporate authorized signature,			
		Submit to:	Attention:	Attention:		
		Illinois EPA P.O. Box 19276	Al Kaller Parmit Section	Donald E. St Permit Section		
		Springfield, IL 62794-9276	Division of Water Pollution Control		ir Pollution Control	

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Watershed Unit Tax Certification Review Sheet

Project Name: None	
Reviewer: Jenny Larsen	Date: June 30, 2014 Type: Agchem X Livestock
Log number: TC-09-13	Contact: Patrick Walk
Applicant: Patrick Walk RR #1 Box 133 A Sigel, IL 62462	Phone: (217)844-2446
Facility:	Property ID: 06-31-100-002
	County: Cumberland
Legal Description: S: 31 T: 10N R: 7E PM: 3rd	Signature: Patrick Walk
Date Control Devices installed: 08/2012	Title: partner
Location: Big Spring, IL	Provided Fair cash Value: \$400,000
Other:	vcled through the facility and/or land applied.
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(On 6/30/2014 at 2:30pm: I spoke with Patrick Walk w beneath the swine finishing building and that the swin cropland. I also asked him for the facility address but this site and it wasn't within any city limits.)	e waste is then collected and applied to the
(On 7/15/2014 at 11:13 am: I spoke with Patrick Walk manure pit to be certified as a pollution control facility	
manare pre to be earthred as a ponation control racine,	<i>(</i> .)

drg/taxcert review sheet



Bureau of Water P.O. Box 19276 Springfield, IL 62794-9276

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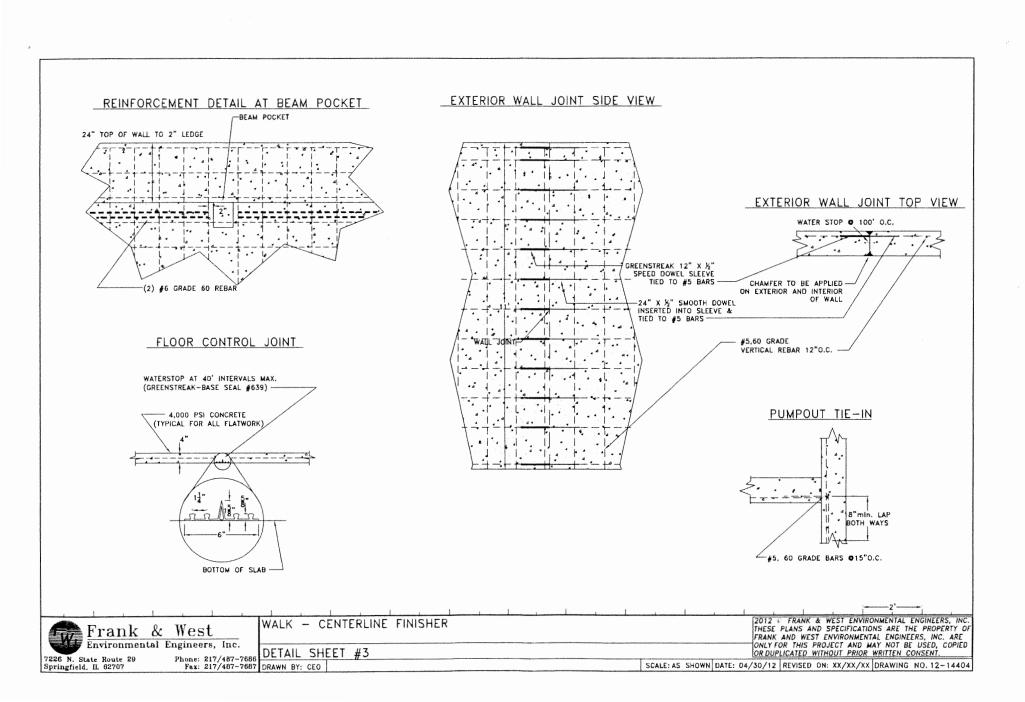
APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY AIR □ WATER □

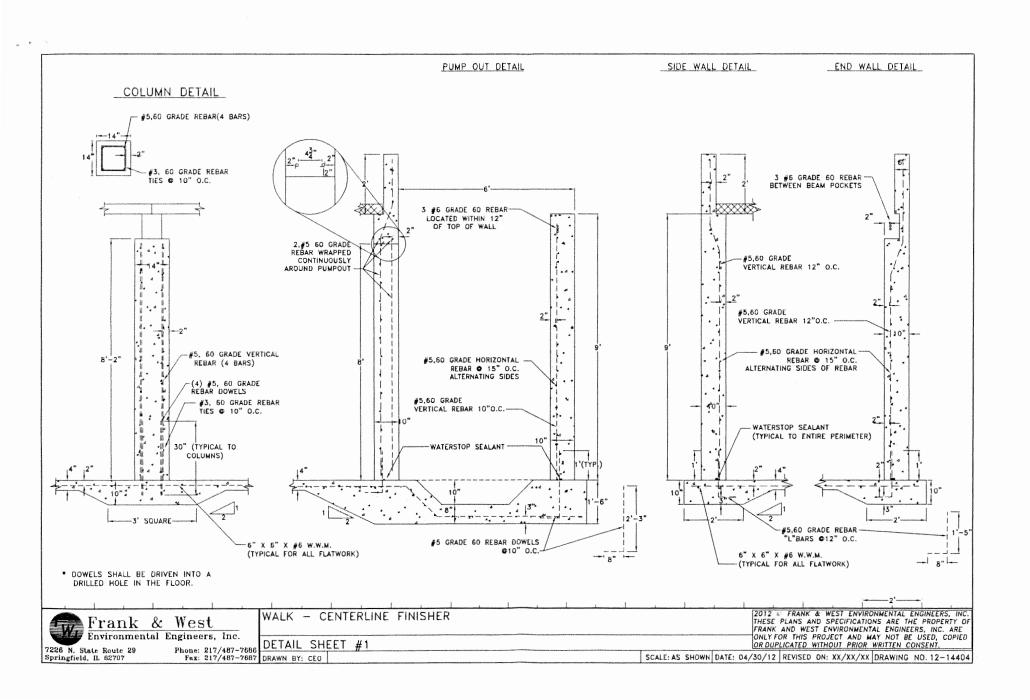
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY P. O. Box 19276, Springfield, IL 62794-9276 This Agency is authorized to request this information under Illinois Revised Statues, 1979, Chapter, 120, Section 502a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

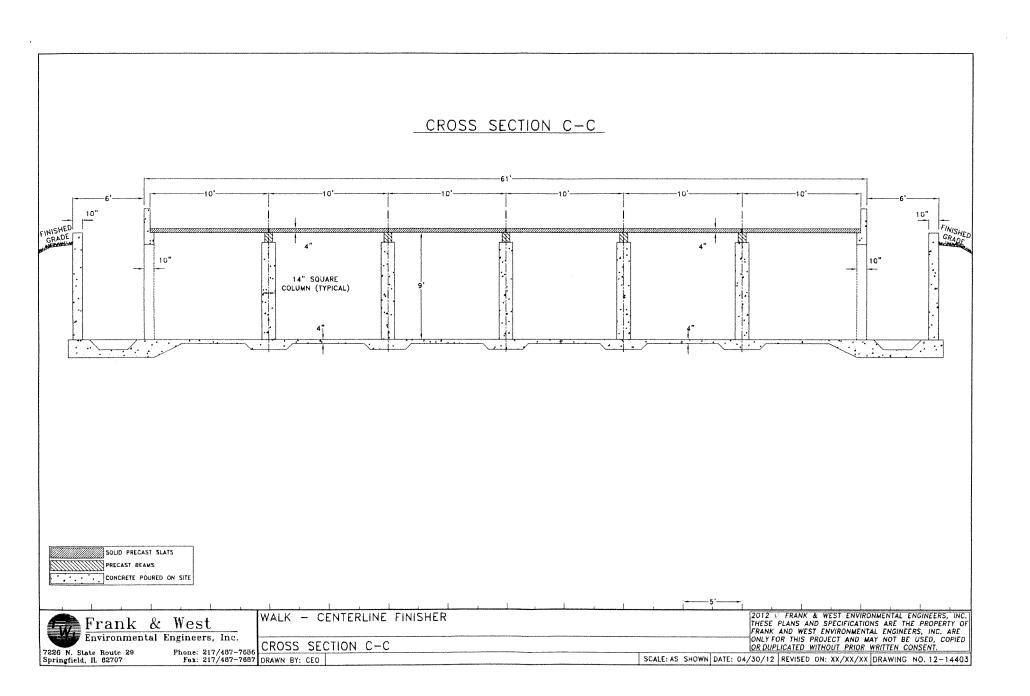
	FOR AGENCY USE			
File No.	Date Received Certification No.	Di	ale	
Sec. A	Company Name BEAD WALA	PATO+CH	C WASH	
	Person Authorized to Receive Certification	Person to Contact for Addit	ional Details	
	Street Address 3 1 607 123 A	Street Address		
ANT	Municipality, State & Zip Code SIGE SIGE	Municipality, State & Zip Co	ode	
APPLICANT	Telephone Number 217-844-2446	Telephone Number		
	Location of Facility Quarter Section Township Range NW 31 10-4 7 EAST		ownship 16 SPRINE	
	Street Address	CUMBERAND	look Number	
	Property Identification Number	Parcel Number 06-3/-	100-002	7
Sec. B	Nature of Operations Conducted at the Above Location SWINE FACILITY			
RING	Water Pollution Control Construction Permit No.	Date Issued		
ACTU	O P			
MANUFACTURING OPERATIONS	NPDES PERMIT No.	Date Issued	Expiration Date	
_	Air Pollution Control Construction Permit No.	Date Issued		
	Air Pollution Control Operating Permit No.	Date Issued	DECIENT	BIN
Sec. C	Describe Unit Process		APR 2 3 2013	J V
FACTURING	SWENE FONEST	BUSINE	IEPA BOW/WPC/PERMIT SEC	TION
IUFACT	Materials Used in Process			
MANUFI	REZNFORCED CO	NORETZ		
Sec. D	Describe Pollution Abatement Control Facility			
NTROL	Reinforced concrete W/	o gotzadów	all	
POLEUTION CONTROL FACILITY DESCRIPTION	joints built accordin	g to IDS	IA Special	

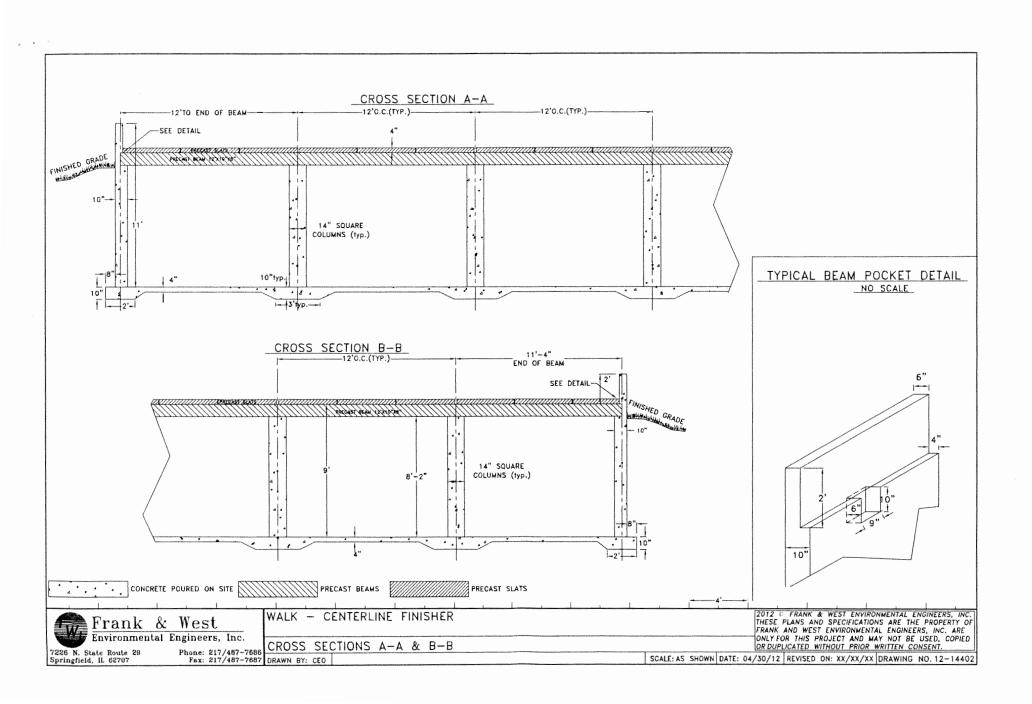
217 782 9891 Electronic Filing - Reseived, Clerk's Office : 07/25/2014 3-14:28 p.m. PCB-2013 * * * */4

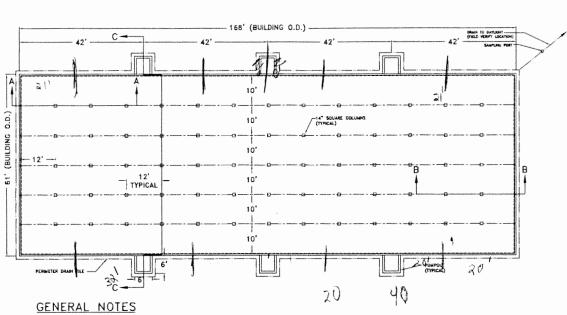
ec. E	(1) 1400	ure of Contaminants or Pollut				
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ž		ninant or Pollutant	DESCRIPTION		ISPOSAL OF	USE
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FAC	(2) Poi	nt(s) of Waste Water Discharg	je 🖒			
ROL P						
NO			Plans and Specifications	Attached	Yes 🖸	No 🗆
Ü Z) collected by the control facility?		Yes 🖾	No 🗆
510	<u> </u>		status of installation o	n date of ap		
OLU ATA	(5) a		SIDERED REAL PROPERTY:		\$ 400,0	10.00
وي	b	. NET SALVAGE VALUE IF C	ONSIDERED REAL PROPERTY:		\$ 400.1	14.000
POLLUTION CONTROL FACILITY — ACCOUNTING DATA	0	. PRODUCTIVE GROSS ANN	UAL INCOME OF CONTROL FACILITY:		\$ 250.	8 dd. 12cl
СОП		. PRODUCTIVE NET ANNUAL	INCOME OF CONTROL FACILITY:		\$ 45.00	19. 19. 101
¥ C	E	PERCENTAGE CONTROL F	ACILITY BEARS TO WHOLE FACILITY	VALUE:	% 34	
Sec. F	The follo	owing information is submitted in	accordance with the Illinois Property Tax	Code, as an	nended, and to	the best of my
16			lities claimed herein are "pollution control	facilities" as	defined in Sect	ion 11-10 of the
28	Jilinois F	Property Tax Code.	\mathcal{L}) \mathcal{A}			
SIGNATURE	1/22	Luck Vall	Cartne			
SIC	Signate	100	Title	-		
Sec. G	Signate	The state of the s	UCTIONS FOR COMPILING AND FILING APP	LICATION		
	0					Uhara hath air and
			npleted for each control facility claimed. Do ni ions. If attachments are needed, record them i			
	Sec. A		listed in the tax records and the person to be o			
			y street address or legal description. A plat ma The property identification number is required.	ip location is r	equired for faciliti	es located
	Sec. B					
	Sec. C		s or materials on which pollution control facility			
						radica politica
	Sec. D	Sec. D Narrative description of the pollution control facility, indicating that its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility. State permit number, date, and agency issuing permit. A narrative description and a process				
		flow diagram describing the <u>pollution control facility</u> . Include a listing of each major piece of equipment included in the claimed fair cash value for real property. Include an <u>average</u> analysis of the influent and effluent of the control facility stating the				
		collection efficiency.	nciode an average analysis of the influent and	emuent or the	control racility st	aung me
	1					
ស	Sec. E		lution substances released as effluents to the r	nanufacturing	processes. List	also the final
TIONS	Sec. E	disposal of any contaminants rem	oved from the manufacturing processes.	,	•	also the final
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- 1.) ANY REVISIONS TO THESE DRAWINGS WUST BE APPROVED BY THE PROJECT ENGINEER OF THE COMPANY LISTED IN
- 2.) CONCRETE CONSTRUCTION SHALL MEET WITH MIDWEST PLAN SERVICE-36, CONCRETE MANURE STORAGES UNLESS NOTED
- 3.) NO CONCRETE SHALL BE PLACED ON 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
- 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.
- B.) THE CONCRETE PAD WILL BE A CONTINUOUS POUR.
- EXTERIOR WALL CONSTRUCTION JOINTS WILL BE INSTALLED AT 10D' O.C.
- 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 5,500 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 5,500 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.

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SCALE: AS SHOWN DATE: 04/17/12 REVISED ON: XX/XX/XX DRAWING NO. 12-14401

GENERAL NOTES:

PREPARATION OF SUBGRADES :

ALL ORGANIC TOPSOIL INSIDE THE TANK AREA AND AT SITE FILL AREAS SHALL BE REMOVED, CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION PER THE GENERAL CONDITIONS.

TOPSOIL SHALL BE STRIPPED FROM THE FOUNDATION AREA AND STOCKPILED FOR USE AS TOP DRESSING FOR VEGETATION ESTABLISHMENT UNLESS OTNERWISE SHOWN ON THE DRAWINGS.

PROOF ROLL SUBGRADES BELOW TANK FLODR, 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 VIELDING, DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.

RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES. FILL PLACEMENT:

FILE SHALL NOT BE PLACED UNTIL THE REQUIRED EXCAVATION AND PREPARATION OF THE UNDERLYING FOUNDATION IS COMPLETED AND APPROVED BY THE TESTING AND INSPECTION AGENCY. FILE SHALL BE PLACED BEGINNING AT THE LOWEST ELEVATION OF THE FOUNDATION, NO FILE SHALL BE PLACED ON A FRIZEN SURFACE.

IF THE SURFACE OF ANY LATER BECOMES TOO HARD AND SMOOTH FOR PROPER BOND WITH THE SUCCEEDING LAYER, IT SHALL BE SCARFIED PARALLEL TO THE AXIS OF THE FILL TO A DEPTH NOT LESS THAN 2 INCHES BEFORE THE NEXT LAYER IS PLACED.

ALL FILL UNDER TANK AREAS SHALL BE PIT RUN GRANEL, OR APPROVED ENGINEERED GRANULAR MATERIAL, PLACED IN 8" MAXIMUM LITTS, AND COMPACTED TO AT LEAST 95% OF STANDDARD PROCTOR MAXIMUM DRY DENSITY. GRAYEL BASE BENEATH ALL CONCRETE SUBS SHALL BE 8" OF CLEM SAND OR 3/4" CURED STONE WITN FIRES COMPACTED. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED AS BACK FILL.

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.

PREPARATION OF FORMS:

THE SITE SHALL BE GRADED TO THE DIMENSIONS AND ELEVATIONS AS SPECIFIED IN THE CONSTRUCTION PLANS.

ALL SURFACES SHALL BE FIRM AND DAMP PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE PLACED IN YHE MUD, DRIED EARTH, UNCOMPACTED FILL OF FROZEN SUBGRADE OR IN STANDING WATER. THE USE OF PLASTIC SHEETING TO ISOLATE THE CONCRETE FROM UNSUITABLE FOUNDATIONS WILL NOT BE PERMITTED.

THE FORMS AND ASSOCIATED FALSE-WORK SHALL BE SUBSTANTIAL AND UNVILLIBING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL COMPORM TO THE SPECIFIED DIMENSIONS AND CONTOURS, METAL CHAIRS, FORMS SHALL BE MORTAR RIGHT, FORMS WITH TORM SURFACES, WORM EDGES, DEN'S 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 REMPORCEMENT OR WITH HARDENED CONCRETE AGAINST WHICH FRESH CONCRETE IS TO BE PLACED.

RENFORCEMENT 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 CHARS, METAL HANCERS, METAL SPACERS, PLASTIC CHAIRS, OR CONCRETE CHAIRS SHALL BE USED TO SUPPORT THE RENFORCEMENT, 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 SPLACED.

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.

STEEL TYING AND FORM CONSTRUCTION ADJACENT TO NEW CONCRETE SHALL HOT BE STARTED UNTIL CONCRETE HAS CURED FOR AT LEAST 12 HOURS.

CONCRETE JOINTS SHALL BE OF THE TYPE SHOWN ON THE CONSTRUCTION DRAWINGS. LOCATIONS SHALL BE DETERMINED BY CONTRACTOR.

WATERSTOPS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION SO THAT DISPLACEMENT DOES HOT OCCUR DURING CONCRETE PLACEMENT. WATERSTOPS MAY BE SECURED TO REINFORCEMENT USING WIRE OR "HOG RING" TYPE FASTENERS.
BACKFILLING:

ONCE THE CONCRETE IS PROPERLY CURED, BACKFILL CAN BE PLACED, AVOID BACKFILL CONTAINING LARGE ROCKS, HARD OR FROZEN SOIL LUMPS, OR CONSYRUCTION DEBRIS. BACKFILL SHOULD BE PLACED NO HIGHER THAN 12" FROM THE TOP OF THE WALL.

ADJACENT TO STRUCTURES AND PIPES WITHIN 2 FEET OF STRUCTURES OR PIPES, EARTHFILL 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 BACKFILL LOADS, COMPACTION SHALL BE ACCOMPUSHED BY MEANS OF MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS ON MAND TAMPING UNLESS OTHERWISE SPECIFIED. HEAVY COUPMENT SHALL NOT BE OPERATED WITHIN 5 FEET OF ANY STRUCTURE OR PIPE. COMPACTION BY MEANS OF DROP WEIGHTS OPERATING FROM A CRAME OR HOUST OF ANY TIPE WILL NOT BE PRINTITED.

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.

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:

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

SPECIAL PROVISIONS SHALL BE MADE TO INMEDIATELY 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.

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 TO VIBRATION, (3) SUSPEND PLACEMENT UNTIL

B.) PREPARATIONS FOR PLACING AND CURING:

*PLANING HOT WEATHER PLACEMENTS

UNDER HOT WEATHER CONTITIONS, SCHEDULING CONCRETE PLACEMENTS AT OTHER-THAN-HORNAL HOURS MAY BE ADVISABLE. PERTINENT CONSIDERATIONS INCLUDE EASE OF HANDLING AND PLACING, AND MINIMIZING THE RISK OF PLASTIC SHRINKAGE AND THERMAL CRACKING.

PREPARATIONS SHOULD BE MADE TO TRANSPORT, PLACE, CONSULIDATE, AND FINISH THE CONCRETE AT THE FASTEST POSSIBLE PARE. CONCRETE DELIVERY TO THE JOB SHOULD BE SCHEDULED SO THAT IT IS PLACED PROMPTLY ON ARRIVAL, PARTICULARLY THE FIRST BATCH. *PLACING EQUIPMENT

EQUIPMENT FOR PLACING THE CONCRETE SHOULD BE OF SUITABLE DESIGN AND HAVE AMPLE CAPACITY TO PERFORM EFFICIENTLY.

*CONSOLIDATION EQUIPMENT

THERE SHOULD BE AMPLE VIBRATION EQUIPMENT AND WORKERS TO CONSOLIDATE THE CONCRETE IMMEDIATELY AS IT IS RECEIVED IN THE FORM *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

C.) PLACEMENT AND FINISHING:

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

*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:

GENERAL

IMMEDIATELY FOLLOWING COMPLETION OF FINISHING OPERATIONS, EFFORTS SHOULD BE MADE TO PROTECT THE CONCRETE FROM LOW HANDIOTY, ORTHOG MINDS, AND EXTREME AMBIENT TEMPERATURE DIFFERENTIAL WHILMYER POSSIBLY, THE COMMITTE AND SUBROUNDING FORMORS SHOULD BE KET IN A UNITION MOISTURE AND TEMPERATURE CONDITION TO ALLOW THE CONCRETE TO DEVLLOP THE MANABUM POTENTIAL STRENGTH AND DUMABILITY. PROCEDURES FOR RETHING EXPENDED SUBFACES FROM MERING DEVILOY HIS MAXIMUM POTENTIAL STRENGTH AND DIRECTORY PROCEDURES FOR MAXIMUM DEPOSED SURFACES FROM DETRIES OF MOUNTED THE REPOSE OF THE STRENGTH OF THE REPOSE OF THE STRENGTH 24 HOURS. THERMAL SHRINKAGE CRACKING IS ASSOCIATED WITH A COOLING RATE OF MORE THAN 5'F (3'C) PER HOUR, OR MORE THAN SOF (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 HIGHT TEMPERATURE DIFFERENCES.

*MOIST CURING OF FLATWORK

A COMMON PRACTICAL METHOD OF MOST CURING IS TO COVER THE CONCRETE WITH IMPERVIOUS SHEETING OR FABRIC MATS KEPT CONTINUOUSLY WE'T WITH 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.

*MEMBRANE CURING OF FLATWORK

**OMERITE CONTING OF FACTOR TO THE CONTINGENT SHOULD USE HEAT-REFLECTING, WHITE-PIGMENTED COMPOUNDS WHERE APPLICABLE. FOR USE IN HOT WIGHTER CONDITIONS, A MATERIAL SHOULD BE SELECTED THAT ENSURES EQUAL OR GREATER MOSTSTURE RETRING INTHAM REQUIRED BY ASTEL COSO, APPLICATION OF AN APPROVED MINISTURE RETRINTY MERICAL SHOULD IMMEDIATELY FOLLOW THE DISAPPEARANCE OF SURFACE WATER SHEEN ATTER THE FINAL, FINISHING PASS, MOST CURRING COMPOUNDS SHOULD HOT BY USED ON ATTER THE FINAL FINISHING PASS. MOST CURRING COMPOUNDS SHOULD HOT BY USED ON ANY SURFACE AGAINST WHICH ADDITIONAL CONCRETE OR OTHER MATERIALS ARE YOUR

CONCRETING IN COLD WEATHER:

A.)COLD WEATHER DEFINITION:

WHEN AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELDW, 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.

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 CURRING PERSON.

THE CURING PERIOD MAY BE REDUCED TO 3 DAYS WHEN TYPE BI CEMENT IS USED. AN ADDITIONAL 100 POUNDS OF TYPE I CEMENT AND A MAXIMUM OF 6 GALLONS OF ACCOUNT MATER PER CUBIC YARD MAY BE USED IN LIEU OF TYPE BI CEMENT.

COMBUSTION REATERS SHALL MAYE EXHAUST FILLE GASES VENTED ONLY OF THE CONCRETE PROTECTION ENCLOSURE AND SHALL NOT BE PERMITTED TO DRT. THE CONCRETE.

B.) OBJECTIVES PRINCIPLES, AND PLANNING:

PREVENT DAMAGE TO CONCRETE DUE TO EARLY AGE FREEZING. AT SO'F (10°C), MOST WELL-PROPORTIONED CONCRETE MIXTURES REACH A COMPRESSIVE STRENGTH OF 500 DN WITHIN 48 HOURS.

DESIVE THAT THE CONCRETE DEVELOPS THE REQUIRED STRENGTH FOR SAFE REMOVAL OF FORMS, SHORES AND RESHORES, AND FOR SAFE LOADING OF THE STRUCTURE

*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 1962).

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 OCCURE, 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. *SUBGRADE CONDITION

CONCRETE SHOULD NOT BE PLACED ON FROZEN SUBGRADE. REMOVE ALL FROST BEFORE PLACING THE CONCRETE AND RECOMPACT THAMED 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 YEMPERATURE ABOVE 257. WHEN THE CONCRETE TEMPERATURE IS MORE THAN 100 FOODLER ON 57 WARMER THAN THE SUBGRADE, DIFFERENTIAL RAISE OF SETTING SETWEEN 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

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

*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. PINSULATING MATERIALS

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	D'-30"F(-18"to-1"C)	50°F(10°C)
4	BELOW D'F(-18'C)	55'F(13'C)
5	-	20°F(11°C)

TABLE 2 LENGTH OF PROTECTION PERIOD FOR

CONCRETE PLACED DURING COLD WEATHER PROTECTION PERIOD AT MINIMUM TEMPERATURE INDICATED IN LINE 1 OF TABLE 5.1, DAYS* SERVICE CONDITION (NORMAL SET CONCRETE) NO LOAD, NOT EXPOSED NO LOAD, EXPOSED PARTIAL LOAD, EXPOSED FULL LOAD

A DAT IS A 24 HOUR PERIOD

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STATE OF ILLINOIS)
COUNTY OF SANGAMON)

PROOF OF SERVICE

I, the undersigned attorney at law, hereby certify that on July 25, 2014, I served true and correct copies of an **APPEARANCE AND THE RECOMMENDATION**, upon the persons and by the methods as follows:

[1st Class U.S. Mail]

Steve Santarelli Illinois Department of Revenue 101 West Jefferson Post Office Box 19033 Springfield, Illinois 62794 [1st Class U.S. Mail] Patrick Walk RR #1 Box 133A Sigel, IL 62462

[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/ Vera Herst 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)