Wastewater Discharge Permit Application

The undersigned hereby requests a wastewater discharge permit from the City of Watertown, Wisconsin.

Names of User: **Perry Way Foods LLC**

Address of User: **1222 Perry Way, Watertown, WI 53094**

Authorized Representative of User: **Matt Lewis**

Title of Authorized Representative: **Plant Director**

Telephone Number: **(920) 290-6700**

Business Activity: **Pig Slaughter Operation and Sausage Production**

Primary SIC No.: **2011**

The above-named user hereby requests to discharge wastewater into the City of Watertown wastewater facilities at the following location:

1222 Perry Way
Watertown, WI 53094

As specified in Chapter 508, Section 508-9 (j)2. of Watertown's Municipal Code, the applicant must include the following information in the permit application:

1. Name, address, and location (if different from the address). **SAME**

2. SIC number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1971, as amended. - **2011**

3. Wastewater constituents and characteristics, including but not limited to, those mentioned in Chapter 508-8 of Watertown's Municipal Code, as determined by a reliable analytical laboratory; sampling and analysis shall be performed in accordance with procedures established by the EPA and contained in 40 CFR, Part 136, as amended. **See Attachment A**

4. Time and duration of wastewater contribution. **The facility will run 3 shifts (3rd shift being Sanitation and Maintenance). On average, wastewater will be discharged 20-24 per day, 5 days per week. Duration and days per week will change periodically, depending on demand for product.**

5. Average daily and 30-minute peak wastewater flow rates, including daily,

monthly, and seasonal variations, if any.
We expect average daily flow rates to be around 100,000 gallons per day, with peak flow rates of 300gpm Maximum daily follow of 170,000 gpd. Flow will vary from month to month, but variation is not predictable and will depend on demand for products.

6. Site plans, floor plans, mechanical and plumbing plans and details to show all sewers, sewer connections, and appurtenances by size, location and elevation. **See attachments D and E**

7. General description of activities, facilities, and plant processes on the premises, including all materials which are or could be discharged.

Plant Activities:

The plant processes sows, harvesting the meat to produce batter mixed with salt and spices; as well as harvesting and processing whole ribs and loins. Some of the batter is further processed on-site into fresh sausage; some is transported to other facilities for final processing and packaging. The facility recovers organs and other non-edible portions of the hog for pharmaceutical and other uses, such as the pet industry. Non-edible parts and blood are captured and rendered off-site. Sows arrive at the site in trailers bedded with straw and are housed temporarily on-site in a covered holding barn/pens. The facility generally processes all animals the day of arrival. Few, if any, hogs are kept overnight. Very rarely are animals kept over a weekend.

Wastewater Sources:

Wastewater is generated throughout the process, mainly from the following areas and activities:

- Hog Pens

- Harvest Facilities

- Boning Process

- Formulation/Blending

- Finished Goods Production Lines

- Cleaning & Washdown Operations

Attachment A **shows actual effluent flow (as billed) for each of the last 12 months; with averages of the pH, BOD, TSS, ammonia, and Total Phosphorus concentrations measured in process wastewater effluent each month. Composite effluent samples are collected twice each week, and analytical results are submitted directly to the Watertown POTW. Surcharges for flow, BOD, TSS, ammonia, and total Phosphorus are calculated from the full data set. Attachment A is just the previous 12 month summary of that data.**

8. The nature and concentration of any pollutants in the discharge which are limited by Chapter 508 of Watertown's Municipal Code (Chapter 508) and a statement regarding whether or not compliance is being achieved with Chapter 508 on a consistent basis and, if not, whether additional operation

and maintenance and/or additional pretreatment is required for the user to comply with Chapter 508.

Recommended Pollutant Limitations

Pollutant	Concentration (mg/l)
Arsenic	**0.15**
Cadmium	**0.50**
Chromium	**2.6**
Copper	**1.5**
Cyanide	**2.3**
Lead	**0.5**
Mercury	**<0.0002**
Molybdenum	**0.1**
Nickel	**3.5**
Selenium	**0.24**
Silver	**5.0**
Zinc	**5.0**

Except for Oil and Grease, Perry Way Foods processes do not have the potential to introduce the contaminants with effluent limitations, per City Ordinance. To remove oil and grease, a rotary screen and a DAF system (with flocculant and coagulant additives) treat process wastewater from the harvest and production facility. The pretreatment system facilitates compliance with the City of Watertown ordinance prohibiting discharge of wastewater where fat, oil, and grease exceed 100 mg/L.

Raw process wastewater will contain significant quantities of the following parameters which have target values (potentially enforceable as limits):

PARAMETER:	**TARGET VALUES or LIMITS:**
BOD *BOD weekly average* *BOD daily maximum* *BOD weekly average*	 *850 lbs/day* *1,000 lbs/day* *175 mg/L*
TSS weekly average	*170 mg/L*
Total Phosphorus, weekly average	*6 mg/L*
Ammonia, weekly average	*25 mg/L*
pH	*5.0 to 9.0 standard units*

The screen and DAF generally maintain effluent oil and grease at or below 100 mg/L. As shown in Attachment A the average Oil & Grease concentrations for the previous 12 months ranged from 20.6 mg/L to 75.3 mg/L.

9. If additional pretreatment and/or operation and maintenance are required to comply with Chapter 508, the industrial user shall submit the shortest schedule by which the user will provide such additional pretreatment and/or implementation of additional operation and maintenance activities. **None currently**

a. The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the industrial user to comply with the requirements of Chapter 508, including, but not limited to dates relating to hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, and all other activities necessary to achieve compliance with Chapter 508. **N/A**

b. No time increment for any single activity directed toward compliance shall exceed nine (9) months. **N/A**

c. No later than 14 days following each date in the schedule and the final date for compliance, the industrial user shall submit a progress report to the Superintendent including, as a minimum, whether or not the industrial user complied with the increment of progress to be met on such date and, if not, the date on which the industrial user expects to comply with this increment of progress, the reason for delay, and the steps being taken by the

industrial user to return the construction to the schedule established. In no event shall more than nine (9) months elapse between such progress reports to the Superintendent. **N/A**

10. Each product produced by type, amount, process or processes and rate of production.

Harvest/Boning facilities process ~1,800 sows per day, having an average weight of 500 pounds

Fresh sausage production facilities process approximately 44 million pounds of fresh sausage annually, or approximately 170,000 pounds per day

11. Type and amount of raw materials processed (average and maximum per day).
Average of 1,200 sows per day at 500 pounds per sow. Maximum 1,800 sows per day.

12. Number of employees and hours of operation of plant and proposed or actual hours of operation of pretreatment system.
Approximately 300 employees, over 3 shifts. Begins approximately 5:00am Monday through 7:00am Saturday. However, days and times may be adjusted depending on product demand. Pretreatment system will operate whenever plant is in operation and discharging wastewater.

In consideration of the granting of this permit, the undersigned agrees:

1. To furnish any additional information relating to the installation or use of the industrial sewer for which this permit is sought as may be requested by the City.

2. To accept and abide by all provisions of Chapter 508 of the Watertown Municipal Code, and of all other pertinent municipal ordinances or regulations that may be adopted in the future.

3. To operate and maintain, in an efficient manner at all times and at no expense to the City, any waster pretreatment facilities, as may be required as a condition of acceptance into the wastewater facilities of the industrial wastes involved.

4. To cooperate at all times with the City and its representatives in the inspecting, sampling, and study of the industrial wastes, and any facilities provided for pretreatment.

5. To notify the City immediately in the event of any accident, or other occurrence that occasions discharge to the wastewater facilities of any wastewater or substances prohibited or not cover by this permit.

6. To furnish with this application a permit fee of $175.00, as specified in Section 508-9 (8)(a) of Chapter 508 of Watertown's Municipal Code.

Date: 12-17-2025 Signed: Matthew M. Lamb
Authorized Representative

Title: Plant Director

Application approved and permit granted:

Date: _____ Signed: _____
Peter Hartz
Water Systems Manager

$ _____ permit fee paid.

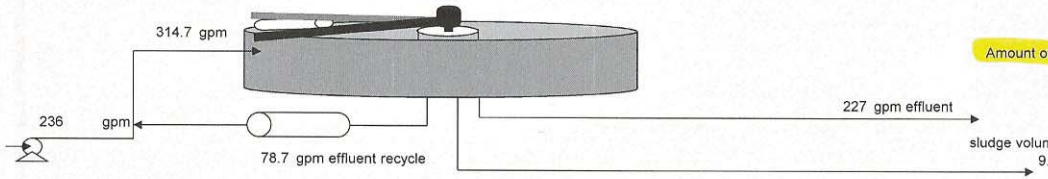
Attachments:

Attachment A: 2024-2025 (12month) Flow & Loading Data
Attachment B: DAF Design Calculations
Attachment C: Flow Schematic
Attachment D: Wastewater Pretreatment system layout
Attachment E: Sewer/Drain layout

Attachment A

Monthly Wastewater Flows and Average Concentrations

		Monthly Average					
Month	Mothly Flow	BOD (mg/L)	pH	TSS	NH3-N	Oil&Grease	Total Phosphorous
	Gallons	(mg/L)		(mg/L)	(mg/L)	(mg/L)	(mg/L)
Dec-24	1,064,192	**858**	**6.1**	**213**	**8.1**	**26.2**	**3.2**
Jan-25	2,136,480	**767**	**6.4**	**149**	**11.1**	**35.7**	**2.6**
Feb-25	2,001,408	**804**	**6.1**	**313**	**7.8**	**44.4**	**4.0**
Mar-25	2,054,640	**741**	**6.5**	**230**	**9.5**	**38.4**	**2.9**
Apr-25	2,504,432	**673**	**6.4**	**119**	**9.0**	**32.0**	**1.8**
May-25	2,504,016	**618**	**6.5**	**128**	**6.8**	**20.6**	**1.5**
Jun-25	2,598,528	**681**	**6.6**	**127**	**11.3**	**22.3**	**3.2**
Jul-25	2,661,088	**537**	**6.7**	**140**	**16.1**	**22.4**	**1.9**
Aug-25	2,620,016	**686**	**6.7**	**125**	**14.1**	**38.6**	**2.3**
Sep-25	2,332,976	**748**	**6.5**	**214**	**19.0**	**75.3**	**3.1**
Oct-25	2,406,292	**672**	**6.6**	**188**	**14.1**	**73.6**	**2.5**
Nov-25	1,758,688	**1,300**	**6.8**	**182**	**12.9**	**61.2**	**5.5**



rem: sludge volume 3.93 gallons

Amount of TSS in raw water mg/L 1000 — lb/day 2834.3 — lb/min 1.97

Amount of TSS removed @ 80% — lb/day 2267.4 — lbs/min 1.57

TSS mg/l 800 — 1.134 BD ton/day

Sludge wet lbs @ 2% — 113371 lb/day — 78.7 lbs/min

Sludge volume @ 2% — 13593.6 gal/day — consistency 9.44 gal/min

Solids loading (Design criteria)
2.5 lbs/ft²/hr

input TSS mg/L	input gpm	input recycle rate % in decimal	total flow with recycle gpm	hydraulic loading gal/ft²	surface ft² of DAF req'd hydraulic	solids loading to DAF lb/ft²/hr	surface ft² of DAF req'd TSS load'g	rem: area of clear well	rem: area of DAF w/clwell	Diameter of DAF requ'd ft	Diameter of DAF requ'd ft
									Hydraulic	Hydraulic	TSS
1000	236	0.25	314.7	3.5	89.9	1.3	89.9	0.1	98.9	11.2	11.2
	590	78.7							98.9		
	354	314.7							TSS		
	0.6										

Installation Site

Johnsonville Sausage Phoenix
1222 Perry Way
Watertown, WI

Date 2/1/2016

Design Conditions

FC-120, 12' DAF Maximizer

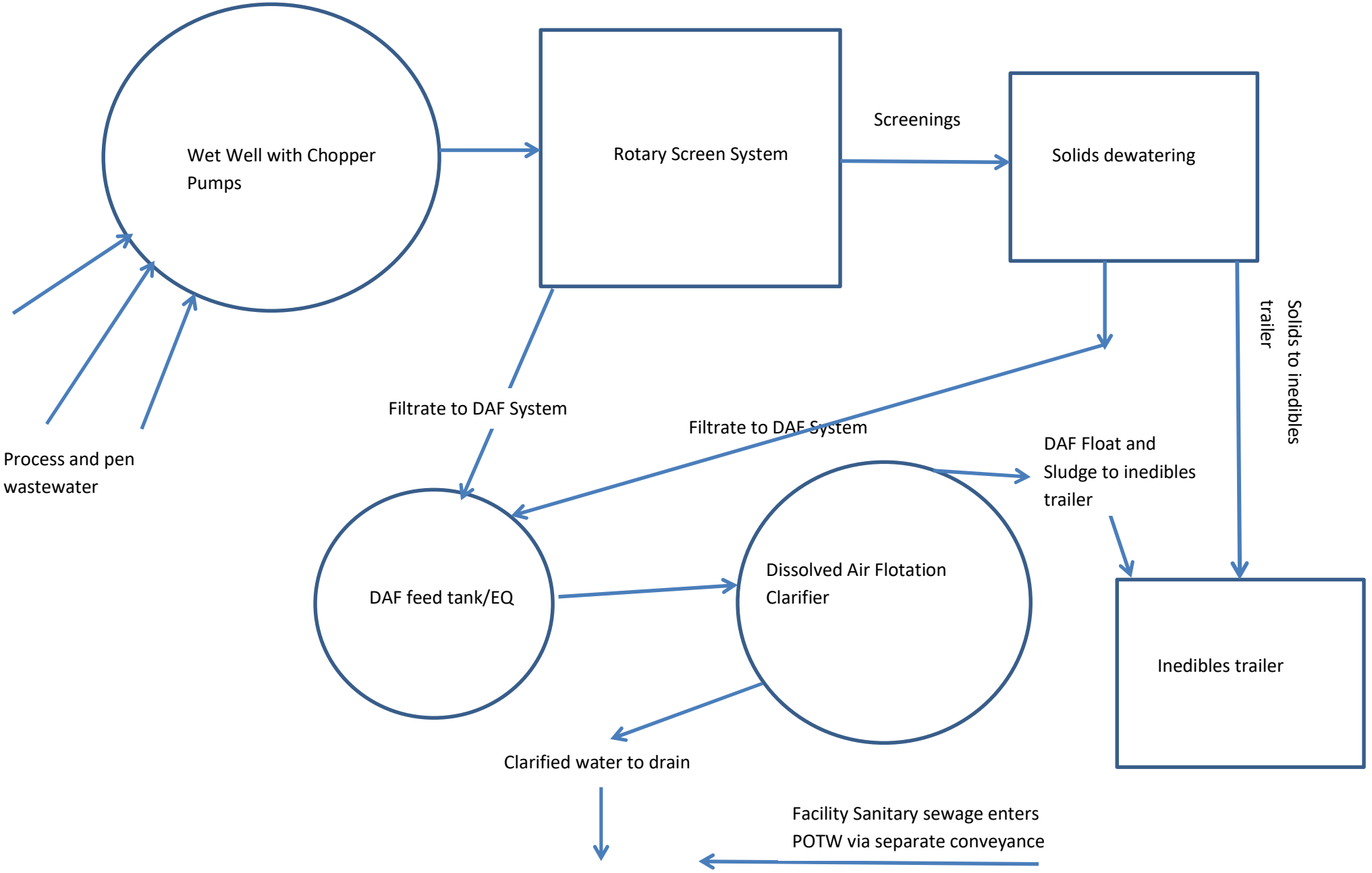
Dissolved Air Flotation Corporation

P.O. Box 497 Kaukauna, WI 54130
E-Mail: jva@dafcorp.com
Internet: www.dafcorp.com
Ph. 920-766-6052
Fax. 920-766-6054

Facility Design Bases
Production per 12 hour day 170,000 gpd with 1,000 mg/L TSS
DAF Removal assumptions without chemical treatment
DAF Flow 12 hour operation 236 gpm

ATTACHMENT C

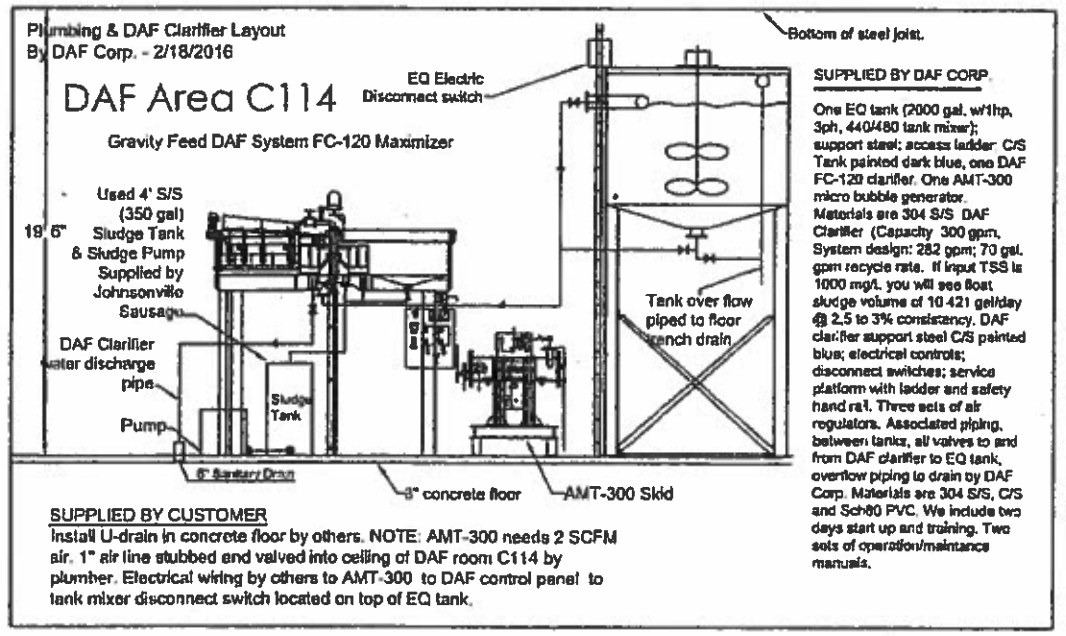
JOHNSONVILLE, LLC / PERRY WAY FOODS – WASTEWATER TREATMENT SYSTEM, SCHEMATIC FLOW DIAGRAM

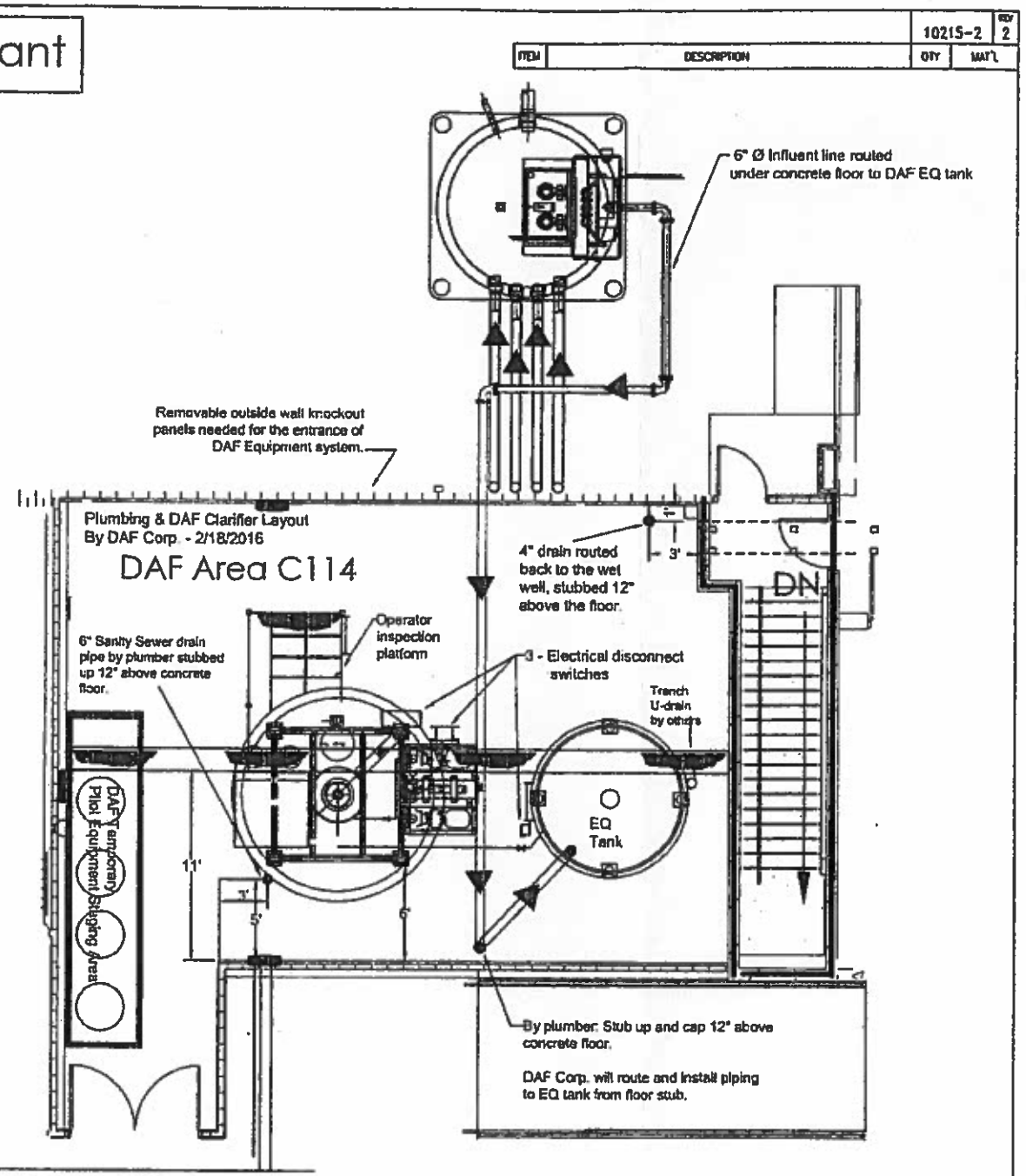


Attachment D

Johnsonville Sausage - Perry Way, Watertown, WI Plant

Plumbing & DAF Clarifier Equipment Layout 2/18/2016





Electrical power requirements for permenent FC-120 DAF Maximizer Clarifier System
AMT-300 Skid Electrical Panel: 2 recycle pressure pumps (one pump is a standby)
Both pumps are15 hp, 3ph, 440/480.
DAF Clarifier Electrical Panel includes Scoop drive motor 1/2 hp, 3ph, 440/480
Carriage drive motor 3/4 hp, 3ph, 440/480
(1) EQ Tank Mixer 1 hp, 3ph, 440/480

Electrical power requirements for temporary DAF piloting of FC-60 Clarifier
(1) AMT-150 Skid Electrical Panel 2.5 hp, 3ph, 440/480.
(1) DAF Clarifier Electrical Panel: Scoop drive motor 1/2 hp, 3ph, 440/480
(1) Carriage drive motor 3/4 hp, 3ph, 440/480.
(1) Supply pump 15 hp, 3 ph, 440/480
(1) Tank Mixer 1/2 hp, 3 ph, 440/480

Note:
Electrical wiring to DAF clarifier, AMT-300 and EQ tank mixer disconnect switched by others.

CORRIDOR

MATERIAL SPECIFICATION	UNLESS SPECIFIED						
CARBON STEEL ☒ 316 STAINLESS ☐	1. All dim's are in inches. 2. Break all sharp edges. 3. Parts to be free of burrs.						
304 STAINLESS ☐ 316L STAINLESS ☐	.X ±.06	.XX ±.030	.XXX ±.005	ANGLE ±1/2°	SYMBOL	DESCRIPTION OF REVISION	DATE / DRN / CHK
304L STAINLESS ☒ OTHER ☒ PVC							DRN: JVA 7/18/2016
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DAF CORP. Watertown, WI 54123

Johnsonville Sausage
Watertown, WI
DAF FC-120 Clarifier Layout

Attachment E.

~~FAUE~~

R.im 847.68

OVERFLOW-?

6" - 837.68 DAF

OUT 836.68

OVER FLOW - ? 837.00

6" DAF 837.68

836.68 OUT

As per Justin S+S 9:26 AM - 02-18-16

SANITARY SEWER EXTENSION

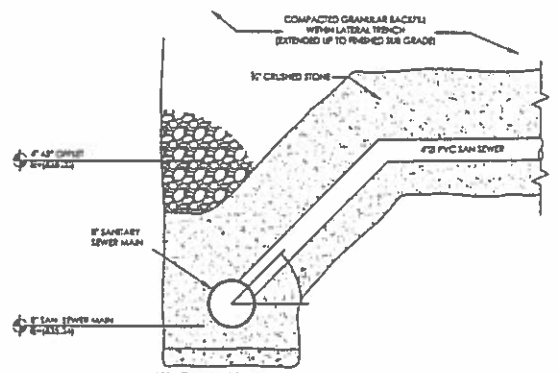
AMERICAN WAY

COMMERCE DRIVE

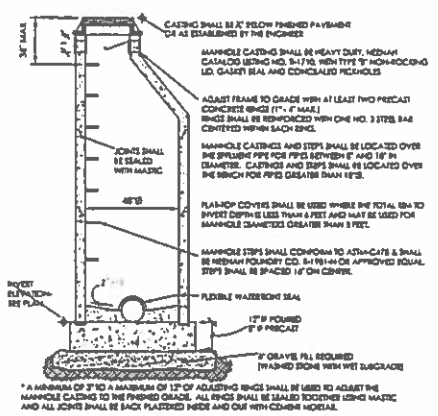
PERRY WAY

KEY PLAN

N

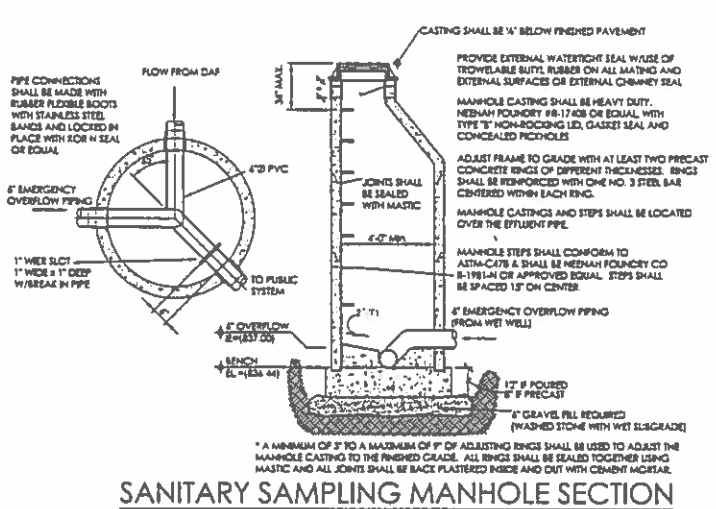


4" SANITARY LATERAL SECTION

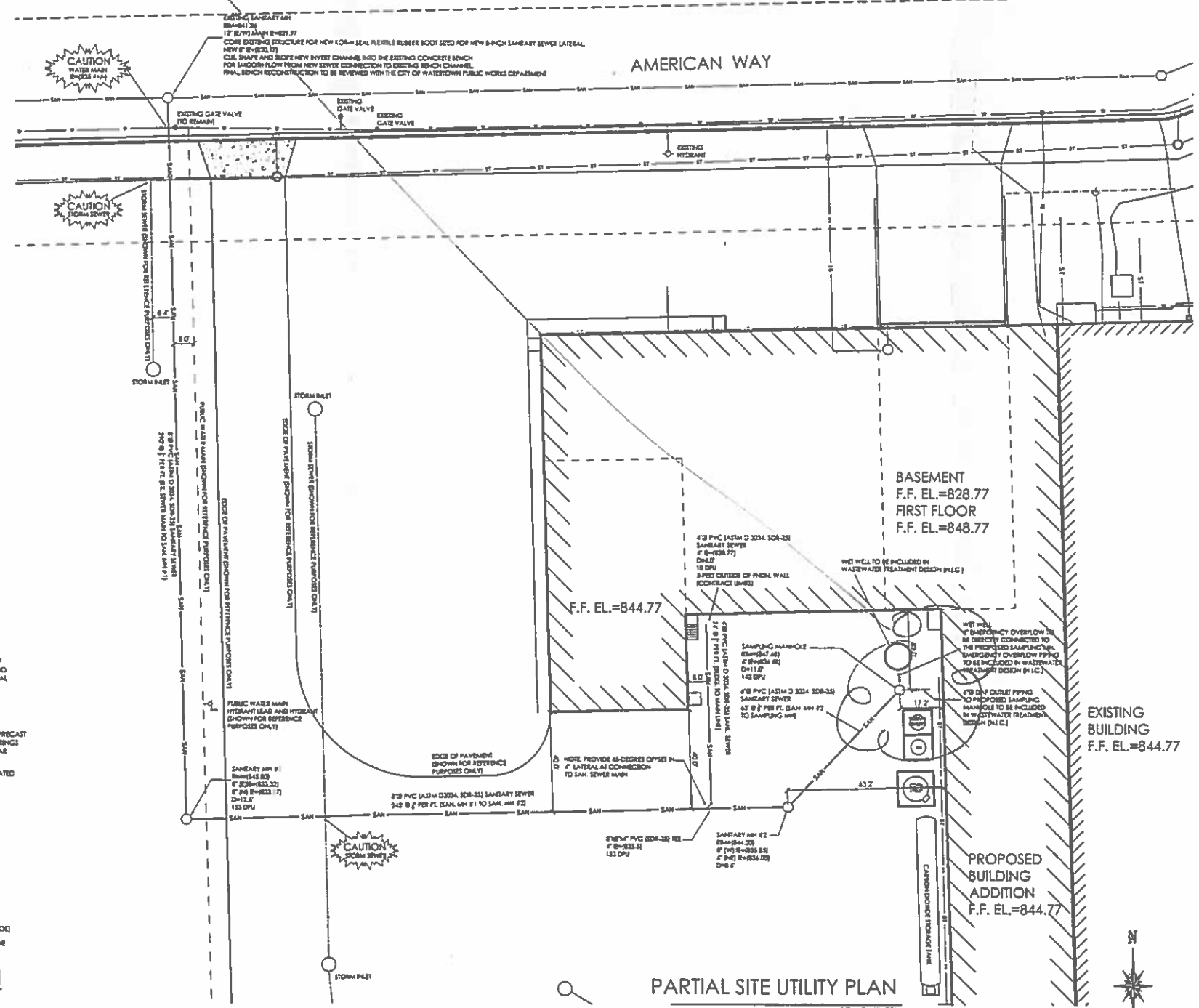


SANITARY MANHOLE SECTION

Delivery March 1



SANITARY SAMPLING MANHOLE SECTION



PARTIAL SITE UTILITY PLAN

SCALE: 1"=20'

N

ABACUS ARCHITECTS

REVISIONS:

NOTICE TO BIDDERS
BIDDERS SHALL REVIEW ALL DRAWINGS AND SPECIFICATION SECTIONS TO DETERMINE THE IMPACT OF OTHER SECTIONS OF WORK ON THEIR OWN WORK

DATE: JANUARY 11, 2015

PROJECT PHOENIX - ADDITIONS AND ALTERATIONS

JOHNSONVILLE SAUSAGE, LLC

1222 PERRY WAY, WATERTOWN, WISCONSIN 53094

1135A MICHIGAN AVE. SHEBOYGAN, WI 53081 (920) 452-4444 | 225 EAST ST. PAUL AVE. MILWAUKEE, WI 53202 (414) 837-4450

DRAWN BY: JAB

CHECKED BY: DJL

A 201

PROJ. NO. 2015-49