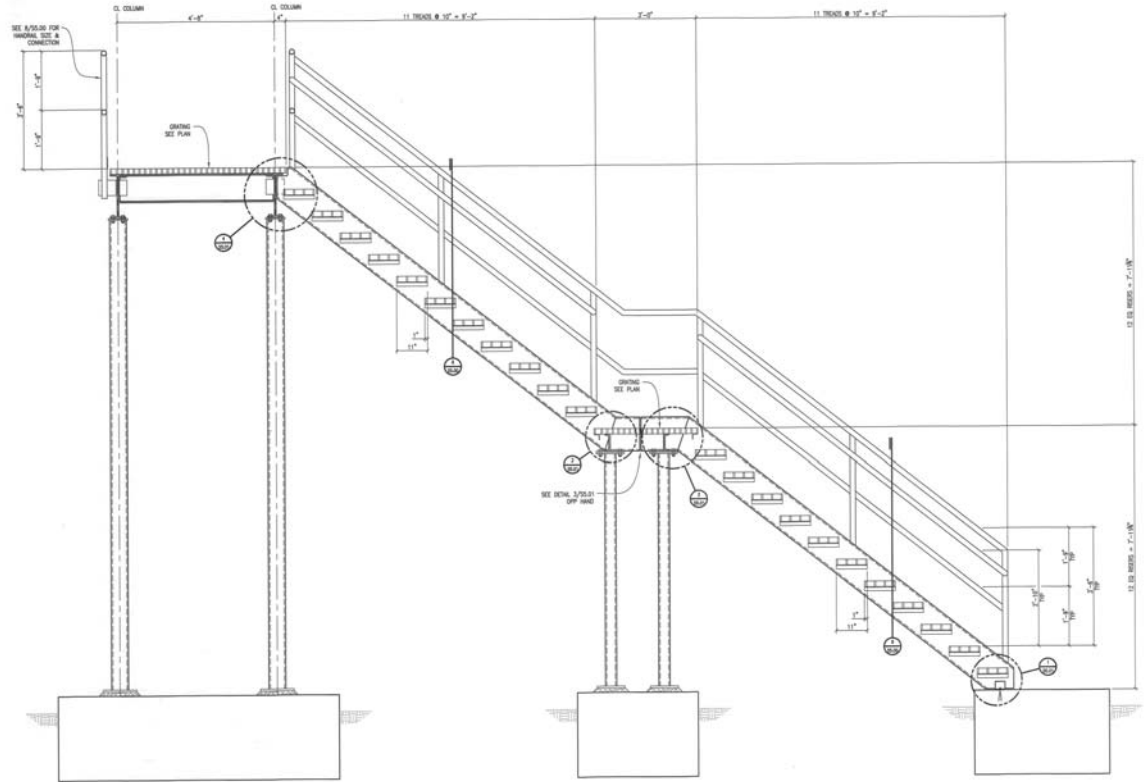


NO.	BY	CHKD	APPV	REVISION	DATE
4	ED	ED	ED	ADDENDUM #	11/24/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



12044 DWG. FOLDER 414 SET 5 OF 5

1  
SCALE 1/4" = 1'-0"

	DESIGNED BY: ED	<b>REID ENGINEERING COMPANY, INC.</b> 1210 PINEHURST AVE. STREET FREDERICKSBURG, VIRGINIA 22401 TEL: (540) 371-8500 FAX: (540) 371-8574	CLARIFIER No. 2
	CHKD BY: ED		STAIR ELEVATION
	ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS THE PROPERTY OF REID ENGINEERING COMPANY, INC.		<b>ALLEN HARIM FOODS, LLC</b> <b>PHASE ONE</b> <b>WASTEWATER TREATMENT SYSTEM</b> <b>UPGRADE &amp; EXPANSION</b>
DRAWN BY: ED DATE: 2 SEPT 2015		RELEASED: [ ] SCALE: AS NOTED DWG NO: 55.11	



**FIRE MARSHAL NOTE**  
ALL FIRE LANES, FIRE HYDRANTS & FIRE RETARDANT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PROTECTION REGULATIONS.

**FIRE PROTECTION NOTE**  
THE LINE IN FRONT OF BUILDING MARKED WITH SIGNS ON THE BUILDING FRONT OVER ROAD ACCESSIBILITY.



**51 SIGN FOR MARKING FIRE LANES**  
SCALE N.T.S.

**OWNER**  
ALLEN-HARRIS, LLC  
128 SHELLEY STREET  
SEAFORD, DE 19757

**PROJECT ADDRESS**  
ALLEN-HARRIS, LLC  
RD 5A  
HARRINGTON DE 19970

**DESIGNER**  
J&B ENGINEERS  
PROJECT ENGINEER JOHN R. SHANAHAN, P.E.  
1942 HARRINGTON DRIVE  
HARRINGTON, MARYLAND 20631  
410-742-7259 (PHONE)  
410-742-9277 (FAX)  
jshanahan@jandbengineers.com (EMAIL)

**PROJECT SIZE**  
TOTAL IMP. & HARVEST 2-35-30, PARCELS AC. 24, 26, 30, 31 & 37  
LAND AREA 26.18 ACRES  
LIMITS OF DISTURBANCE 7,532 SQ. FT. (PHASE I)  
22,742 SQ. FT. (PHASE I & II)  
BUILDING AREA 26,888 SQ. FT.  
EXISTING BUILDING 6,480 SQ. FT. (P)  
PROPOSED PHASE I 8,420 SQ. FT. (N)  
PROPOSED PHASE II 6,228 SQ. FT. (N)  
PROPOSED BUILDING & TRAILER AREA EXISTING IMPROVEMENTS 1,114 SQ. FT. PROPOSED IMPROVEMENTS 6,228 SQ. FT. EXISTING IMPROVEMENTS

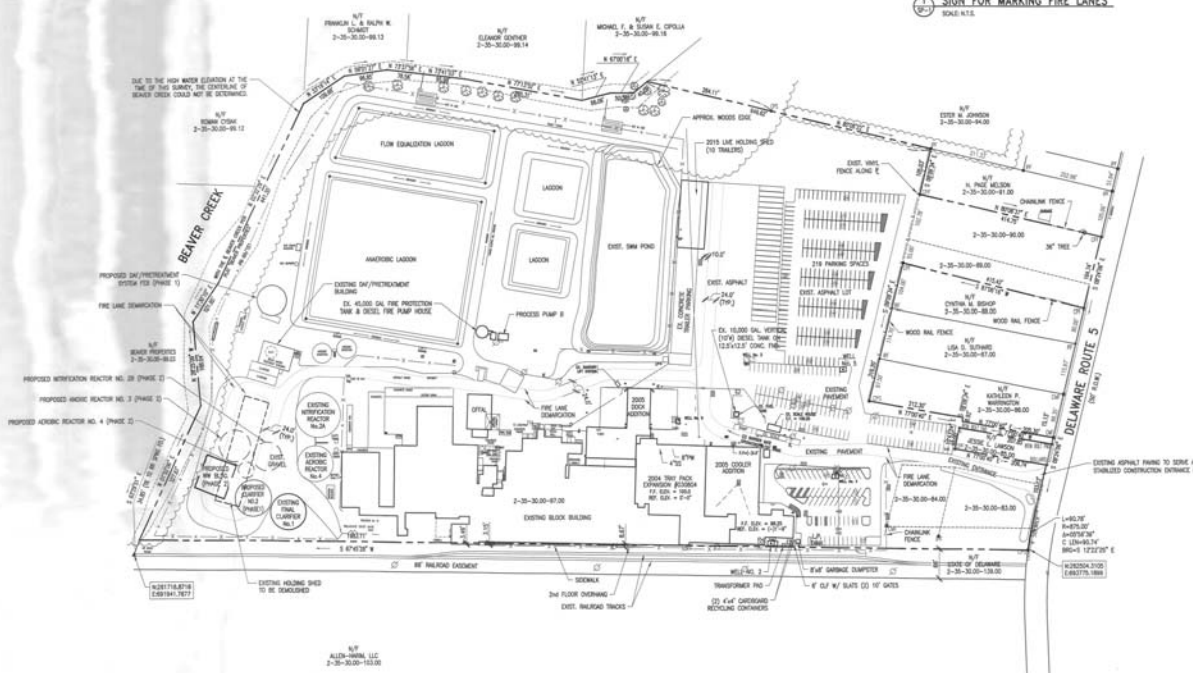
**BUILDING CODE** IRC 2012  
**ZONING** M-1  
**CONSTRUCTION TYPE** TYPE I, FACTORY-INDUSTRIAL  
**BUILDING SYSTEM** STEEL FRAME  
**BUILDING ACCESS** 24" W/ NON-SPRINKLED  
**WATER SUPPLY** PRIVATE WELLS

**EXISTING UTILITIES** REGULAR W/C TOWN  
EXISTING 360 7 367

**USE LINES**  
EXISTING FIRE LANE DEMARKATION TO REMAIN AS PREVIOUSLY APPROVED.

**SUBJECT SIGNS**  
NOTES AND SIGNS SHALL BE THROWN FROM A SIGNING BY WACKER INC., SHELLEY RD.  
OWNER IS RESPONSIBLE FOR SURVEY TO ESTABLISH BOUNDARIES AND CLEARLY MARK AREA.

**THIS PROPERTY IS SHOWN ON PUBLIC COMPANY PAVEMENT FUNDING DISTRICT 210 OF WELLS MAP RECORDED UNDER REC. 2014-06-08-004 IN PLAT 2014-06-08-004, A MAP DEDICATED TO BE OPENED TO THE USE OF PUBLIC COMPANY FUNDING.**



**SYMBOL LEGEND:**

---	LIMITS OF DISTURBANCE
---	EXISTING BUILDING
---	EXISTING PARKING SPACES
---	8" 4" W/ SIGNS (SEE 3/20-1)

**INDEX OF DRAWINGS**

SP-1	OVERALL SITE PLAN
SP-2	ENLARGED SITE IMPROVEMENTS PLAN
SP-3	NOTES & DETAILS

RELEASE BY 28 APR 15 071

PROJECT NORTH

ENGINEERS/ARCHITECTS  
**J&B ENGINEERS**  
1942 HARRINGTON DRIVE  
HARRINGTON, MD 20631  
410-742-7259 (PHONE)  
410-742-9277 (FAX)  
jshanahan@jandbengineers.com (EMAIL)

**WILSON**  
HARRINGTON

**SITE IMPROVEMENTS PLAN**  
**2015 WWITS UPGRADE & EXPANSION**  
HARRINGTON, DELAWARE

DATE PERMIT  
SCALE 1" = 100'  
DRAWN MJS  
CHECKED JES  
JOB 150407  
PLN JRS-2  
SHEET

SP-1



**OWNER:** ALLEN-WAIN, LLC  
150 SHELLEY STREET  
SEAFORD, DE 19753

**PROJECT ADDRESS:** ALLEN-WAIN, LLC  
ROUTE 100, BOX 1800  
1/4 EASTBY BROWN  
303-884-1840 [PHONE]

**ENGINEER:** H&B ENGINEERS  
PROJECT ENGINEER: JOHN R. SHAWK, P.E.  
1342 WOODWOOD DRIVE  
MILFORD, DELAWARE 19967  
410-742-7288 [PHONE]  
(410) 742-8277 [FAX]  
john@hnbengineers.com [EMAIL]

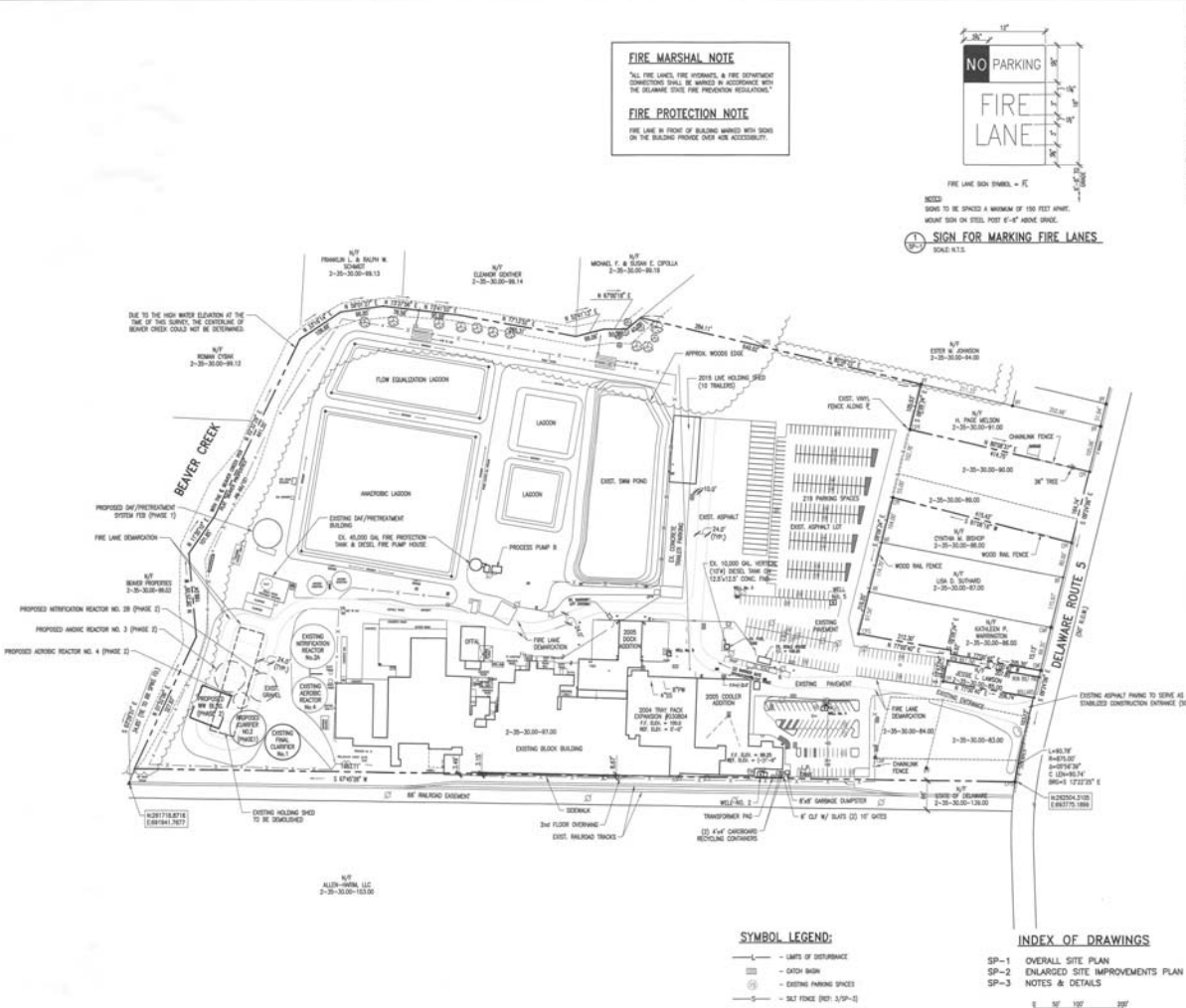
**PROJECT DATA:**  
THE MAP & PARCEL: 2-30-00, PARCELS 05, 04, 06, 09 & 07  
LAND AREA: 38.19 ACRES  
LIMITS OF DISTURBANCE: 7,632 SQ. FT. (PHASE I)  
24,738 SQ. FT. (PHASE II)  
40,278 SQ. FT. (TOTAL) / 0.53 ACRES

**BUILDING AREA:** 24,800 SQ. FT.  
EXISTING: 24,800 SQ. FT.  
PROPOSED PHASE I: 8,480 SQ. FT. (1)  
PROPOSED PHASE II: 8,000 SQ. FT. (1)  
PROPOSED BUILDING A THREE OVER EXISTING IMPROVEMENTS  
(1) 5,418 SQ. FT. PROPOSED IMPROVEMENTS & 2,582 SQ. FT. EXISTING IMPROVEMENTS

**BUILDING CODE:** IBC 2012  
**ZONING:** R-1  
**CONSTRUCTION TYPE:** 5  
**BUILDING USE GROUP:** FACTORY-INDUSTRIAL  
**BUILDING HEIGHT:** 1  
**SPRINKLER SYSTEM:** NON-SPRINKLER  
**WATER SUPPLY:** WELL

FINISHING SERVICES	REGULAR	H/C	TOTAL
EXISTING	300	7	307

**DEVELOPER:** ALLEN-WAIN, LLC  
2-30-0000-10-06



10/15/2015 Allen-Wain LLC 150 Shelley Street Seaford, DE 19753  
 10/15/2015 Allen-Wain LLC 150 Shelley Street Seaford, DE 19753  
 10/15/2015 Allen-Wain LLC 150 Shelley Street Seaford, DE 19753

RELEASE BY: 28 AUG 15 07

PROJECT NORTH

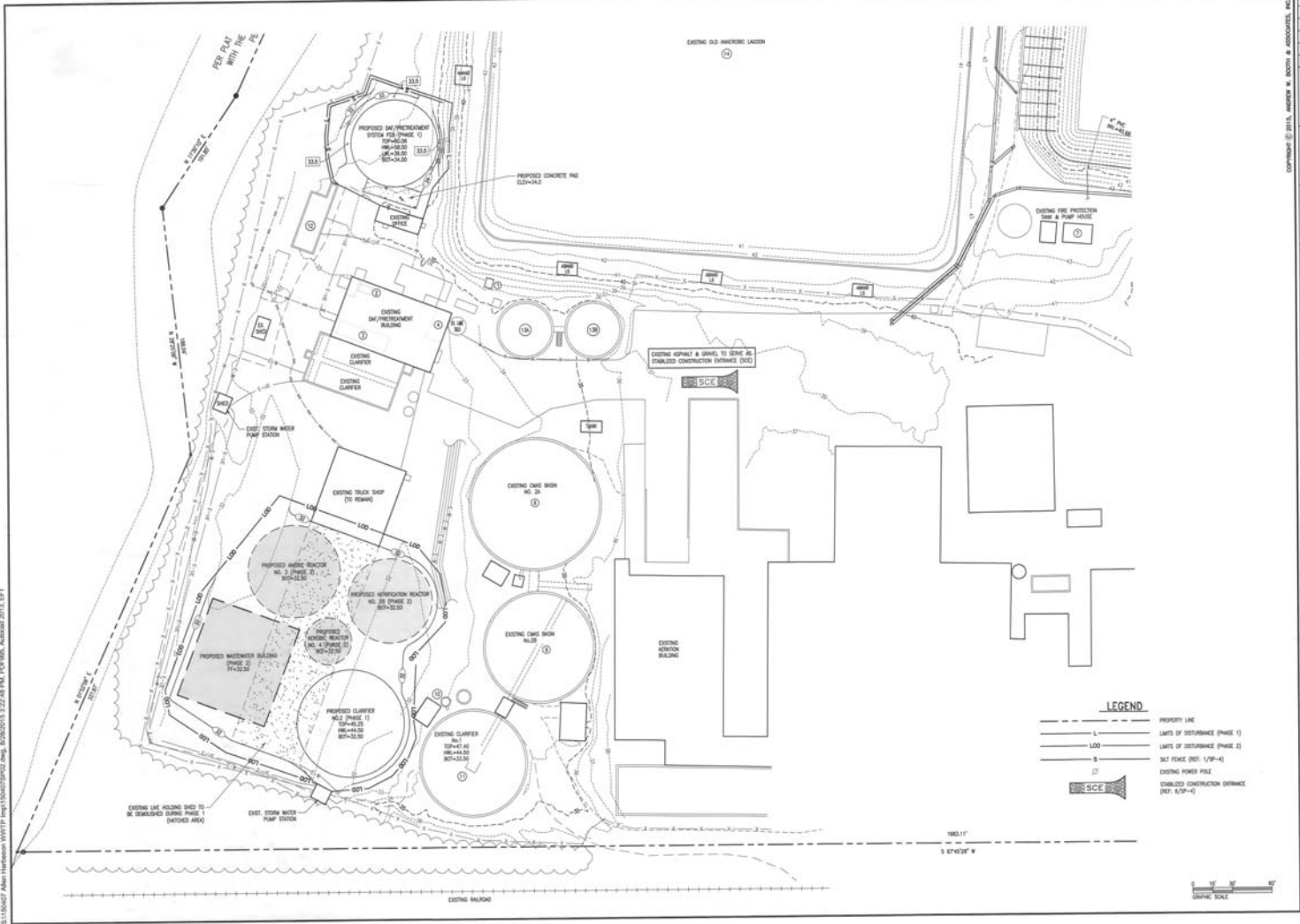
ENGINEERS/ARCHITECTS  
**AWP ENGINEERS**

**Allen-Wain**

**SITE IMPROVEMENTS PLAN**  
2015 WANTS UPGRADE & EXPANSION  
HARRISON, DELAWARE

DATE: PERMIT  
SCALE: 1" = 100'  
DRAWN: JMS  
CHECKED: JMS  
JOB: 150407  
FILE: JIS-2  
SHEET: SP-1

S:\150407\_Ambi-Harbeson-WWTP\DWG\150407SP02.dwg, 6/28/2015 3:22:48 PM, PLOT 005, AutoCAD 2013, EPT



**LEGEND**

	PROPERTY LINE
	LIMITS OF DISTURBANCE (PHASE 1)
	LIMITS OF DISTURBANCE (PHASE 2)
	SILT FENCE (DET. 1/3P-4)
	EXISTING POWER POLE
	STABILIZED CONSTRUCTION ENTRANCE (SCE) (DET. 4/3P-4)

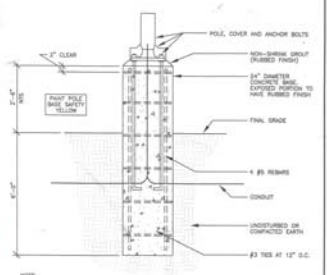
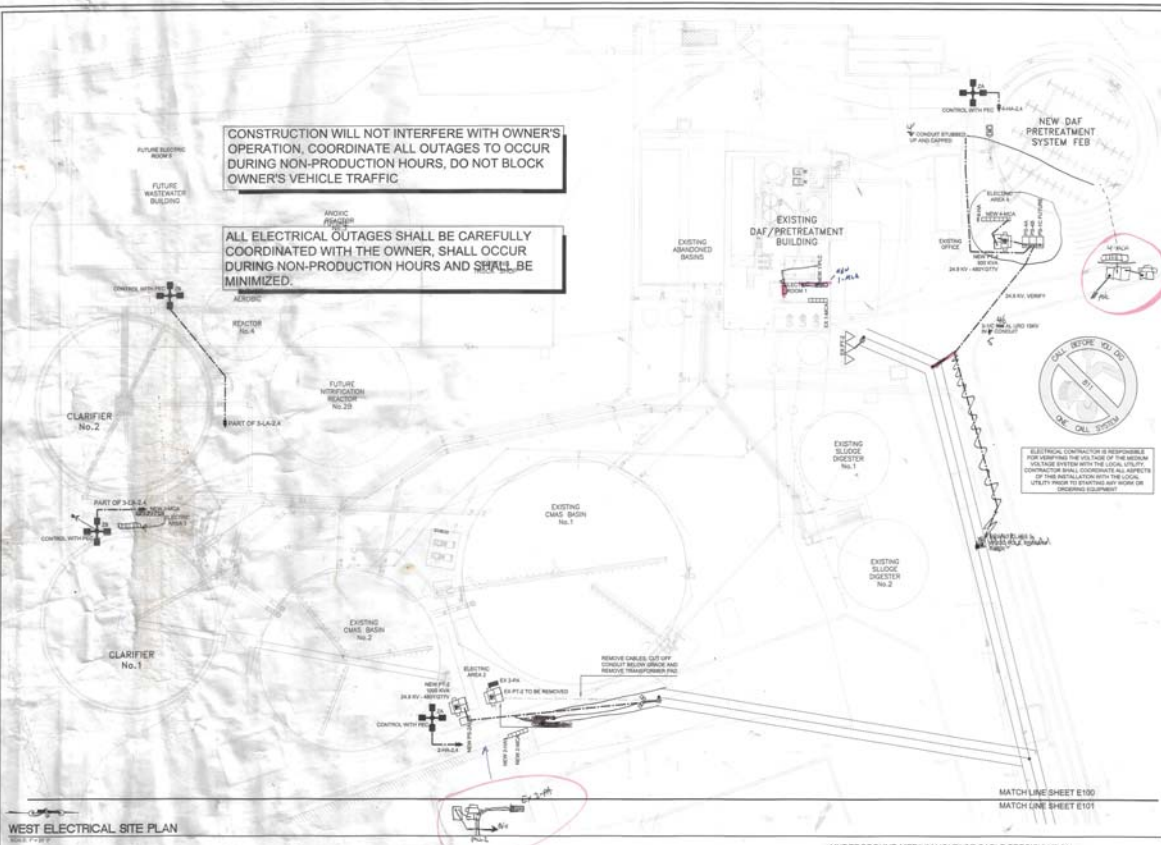


<p>RELEASE BY: [ ]</p> <p>DATE: 28 AUG 15</p> <p>PROJECT NO: [ ]</p> <p>ENGINEERS/ARCHITECTS: [ ]</p> <p>AWBEN-CRENSHAW</p>	<p>ENLARGED SITE PLAN</p> <p>2015 WWTS UPGRADE &amp; EXPANSION</p> <p>HARBESON, DELAWARE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE:</td> <td>PROJECT:</td> </tr> <tr> <td>SCALE:</td> <td>1"=30'</td> </tr> <tr> <td>DRAWN:</td> <td>EPT</td> </tr> <tr> <td>PROJ. MGR.:</td> <td>JRS</td> </tr> <tr> <td>FILE:</td> <td>150407</td> </tr> <tr> <td>FILE:</td> <td>JRS-2</td> </tr> <tr> <td>FILE:</td> <td>SP-2</td> </tr> </table>	DATE:	PROJECT:	SCALE:	1"=30'	DRAWN:	EPT	PROJ. MGR.:	JRS	FILE:	150407	FILE:	JRS-2	FILE:	SP-2
DATE:	PROJECT:														
SCALE:	1"=30'														
DRAWN:	EPT														
PROJ. MGR.:	JRS														
FILE:	150407														
FILE:	JRS-2														
FILE:	SP-2														

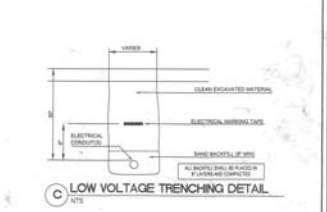
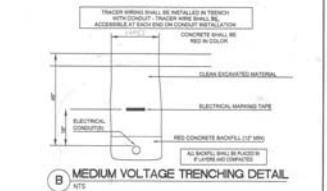


CONSTRUCTION WILL NOT INTERFERE WITH OWNER'S OPERATION. COORDINATE ALL OUTAGES TO OCCUR DURING NON-PRODUCTION HOURS, DO NOT BLOCK OWNER'S VEHICLE TRAFFIC.

ALL ELECTRICAL OUTAGES SHALL BE CAREFULLY COORDINATED WITH THE OWNER. SHALL OCCUR DURING NON-PRODUCTION HOURS AND SHALL BE MINIMIZED.



A POLE BASE DETAIL



WEST ELECTRICAL SITE PLAN

**PROJECT NOTES:**

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL, STATE, LOCAL REQUIREMENTS AND STATE REGULATIONS.
- CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY OTHER COSTS ASSOCIATED WITH THE ELECTRICAL INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS BY LOCAL UTILITY. HE SHALL BE RESPONSIBLE FOR ANY SPECIAL CONSTRUCTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK WITH THE LOCAL UTILITIES.
- ALL EQUIPMENT/LOCATION SYSTEMS OR APPROVED APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATION BY REVIEW OF APPROPRIATE ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS WITH APPROVED CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL UTILITY.
- PILES SHALL BE LOCATED AWAY FROM ALL DANGER ZONES OF WORK.
- ALL EQUIPMENT/CONDUITS/CONDUCTORS SHALL BE INSTALLED IN ALL CONCRETE. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.
- FOR EXTERIOR LOCATIONS AND WINDPROOF SHEET AND CORROSION LOCATIONS, ALL ELECTRICAL ENCLOSURES SHALL BE MADE OF STAINLESS STEEL.

**CONDUIT REQUIREMENTS**

- CONDUIT SHALL BE RIGID (UNLESS OTHERWISE SPECIFIED) - PVC SCHEDULE 80
- EXTERIOR RIGID CONDUIT LOCATIONS SHALL USE PVC SCHEDULE 80
- EXTERIOR RIGID CONDUIT LOCATIONS SHALL USE PVC SCHEDULE 80
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- EXTERIOR RIGID CONDUIT LOCATIONS SHALL USE PVC SCHEDULE 80
- EXTERIOR RIGID CONDUIT LOCATIONS SHALL USE PVC SCHEDULE 80

**UNDERGROUND MEDIUM VOLTAGE CABLE SPECIFICATION**

The cable is composed of a solid or moisture blocked reverse lay, compressed stranded soft drawn copper, or a solid or moisture blocked reverse lay or unlay compressed stranded 1350-110/28 aluminum phase conductor, covered by a semi-conducting cross-linked polyethylene strand sheath, a three-relevant cross-linked polyethylene primary insulation, and a semi-conducting cross-linked polyethylene insulation shield. Conductors shall have 100% insulation levels. A composite neutral of bare copper wires and a sunlight resistant, 40°C rated, insulating linear low density polyethylene jacket are applied over the insulation shield.

**Donald L. Yates, P.E.**  
 Designer  
 P.O. Box 388  
 Hammond, LA 70404  
 504-799-0019  
 dl@reidengineering.com

**REID ENGINEERING COMPANY, INC.**  
 1215 Poydras Street  
 New Orleans, LA 70112  
 Tel: (504) 571-8500 Fax: (504) 571-8518

**"FOR CONSTRUCTION"**

ELECTRICAL SITE PLAN

ALLEN HARIM FOODS, LLC  
 PHASE ONE  
 WASTEWATER TREATMENT SYSTEM  
 UPGRADE & EXPANSION

BARRENO: 1/27/16 PROJECT NO: 16002  
 DATE: 1/27/16 SHEET NO: 1100  
 SCALE: AS SHOWN DWG NO: 1100

NO.	BY	CHKD	APPY	REVISION	DATE
1					8/28/18

MATCH LINE SHEET E100  
MATCH LINE SHEET E101

ABANDONED ANAEROBIC LAGOON

EXISTING BLOWER BUILDING

EXISTING FEB/ANOXIC REACTOR No.1A

EXISTING FEB/ANOXIC REACTOR No.1B

EXISTING WATER STORAGE TANK

EXISTING PUMP HOUSE

EXISTING EFFLUENT PUMP STATION No.1

NEW 150' CLASS 3 WOOD POLE PRIMARY TOWER

REACTOR No.1 EFFLUENT PUMP STATION No.2

EAST ELECTRICAL SITE PLAN  
8/27/18

"FOR CONSTRUCTION"

Donald L. Yelton, P.E.  
Professional Engineer  
P.O. Box 88  
Lawrenceville, Georgia 30044  
478-960-8575  
dly@reedeng.com

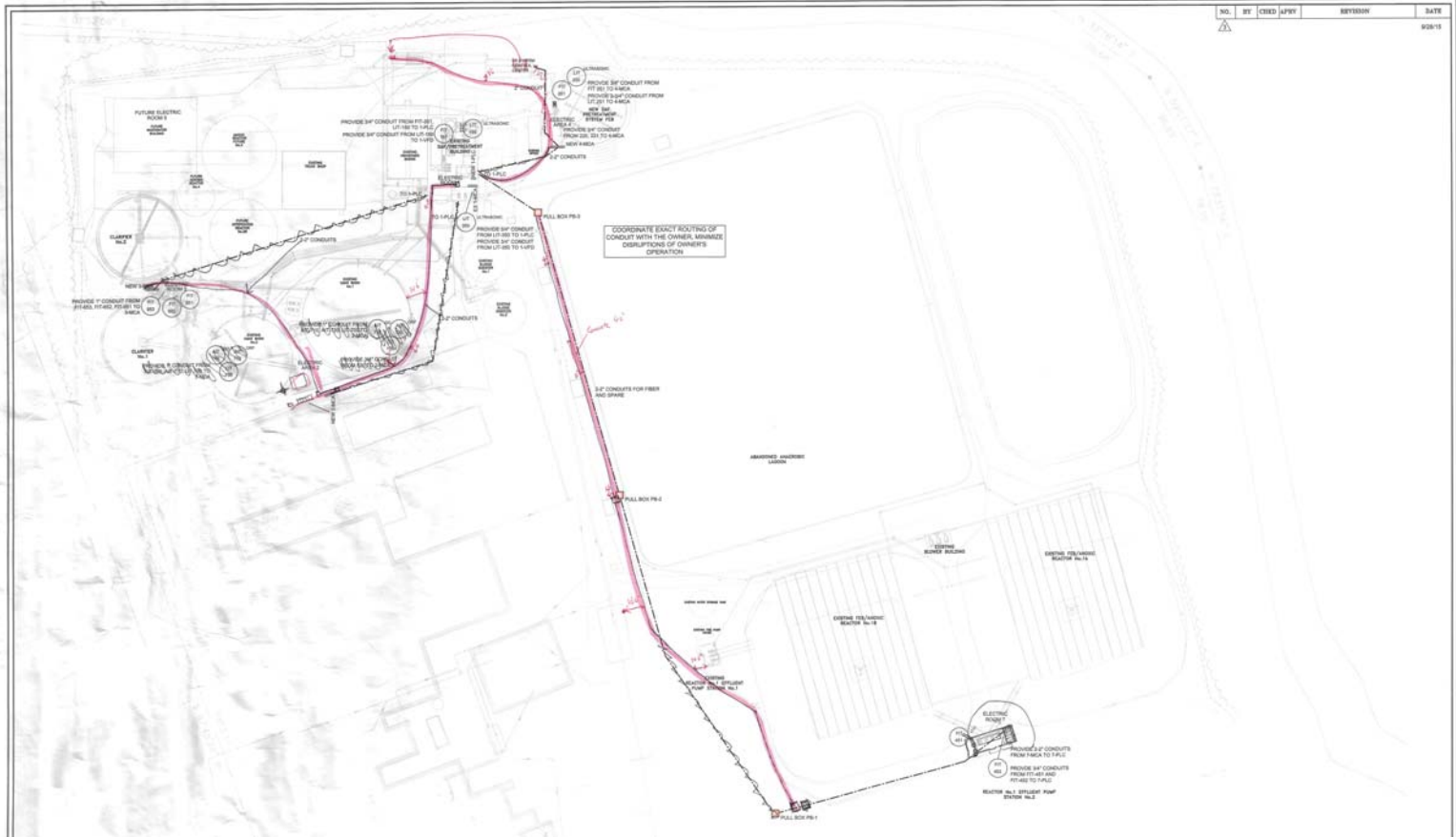


DRAWN BY: DLY  
DESIGNED BY: DLY  
CHECKED BY: DLY

REID ENGINEERING COMPANY, INC.  
1210 Pineson Avenue Street  
Fayetteville, Georgia 30215  
Tel: (404) 371-8000 Fax: (404) 371-8978

ELECTRICAL SITE PLAN	
ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
DRAWN BY: DLY	PROJECT NO: 18001
DATE: 1/26/18	DWG NO: E101
SCALE: AS SHOWN	

NO.	BY	CHKD	APPV	REVISION	DATE
					8/28/15



**CONTROL CONDUIT PLAN**  
SCALE: 1"=40'

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**"FOR CONSTRUCTION"**

**Donald L. Yates, PE**  
Professional Engineer  
P.O. Box 987  
Harrisonburg, Virginia 22804  
434-768-5879  
dl.yates@reideng.com



DESIGNED BY: SLV  
CHECKED BY: SLV  
DATE: 8/28/15

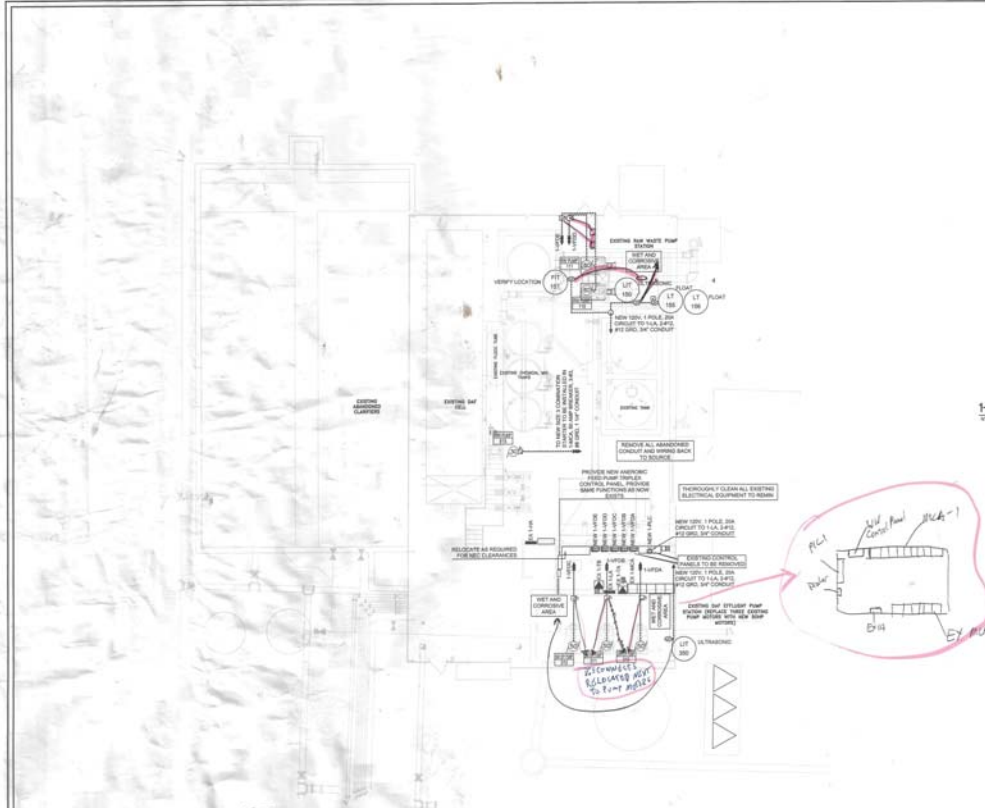
**REID ENGINEERING COMPANY, INC.**  
1210 Princess Anne Street  
Harrisonburg, Virginia 22801  
Tel: (540) 371-6500 Fax: (540) 371-8516

CONTROL CONDUIT PLAN	
ALLEN HARM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
DATE: 1/8/16	PROJECT NO.: 150004
SCALE: AS SHOWN	DWG NO.: 8182



NO.	BY	CHKD	APPROV	REVISION	DATE
1					03/13
2					11/24/15
3					11/25/15

- METAL NEW SIZE & PUMP COMBINATION  
 BRACKET FOR NEW PUMP TO BE LOCATED  
 STARTING AND BREATHER AS REQUIRED TO  
 INITIAL NEW DESIGN
- CONTRACTOR SHALL VERIFY  
 THAT 100% HAS ACCURATE  
 CAPACITY FOR NEW LINES
- |  | SECTION 1    | SECTION 2       | SECTION 3       | SECTION 4        | SECTION 5  |
|--|--------------|-----------------|-----------------|------------------|--|
| REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE | DAF EFF PUMP | FEAT TRUCK PUMP | SPACE 1 SPACE 1 | SPACE 1 DIGESTER | REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE |
| NEW AC BREATHER TO FEED NEW 1/2 PILE             |              |                 |                 |                  | NEW AC BREATHER TO FEED NEW 1/2 PILE             |
| REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE | DAF EFF PUMP | FEAT TRUCK PUMP | SPACE 1 SPACE 1 | SPACE 1 DIGESTER | REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE |
| NEW AC BREATHER TO FEED NEW 1/2 PILE             |              |                 |                 |                  | NEW AC BREATHER TO FEED NEW 1/2 PILE             |
| REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE | DAF EFF PUMP | FEAT TRUCK PUMP | SPACE 1 SPACE 1 | SPACE 1 DIGESTER | REPLACE EXISTING WITH A NEW BUCKET 150A 1/2 PILE |
| NEW AC BREATHER TO FEED NEW 1/2 PILE             |              |                 |                 |                  | NEW AC BREATHER TO FEED NEW 1/2 PILE             |

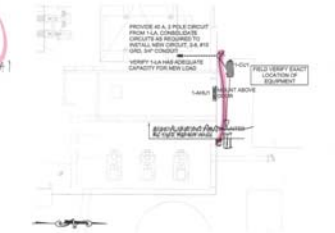


EXISTING DAF/PRETREATMENT BUILDING POWER PLAN  
 SCALE: 1/8" = 1'-0"

1-MCA FRONT VIEW

VARIABLE FREQUENCY DRIVE SCHEDULE (WALL MOUNTED)

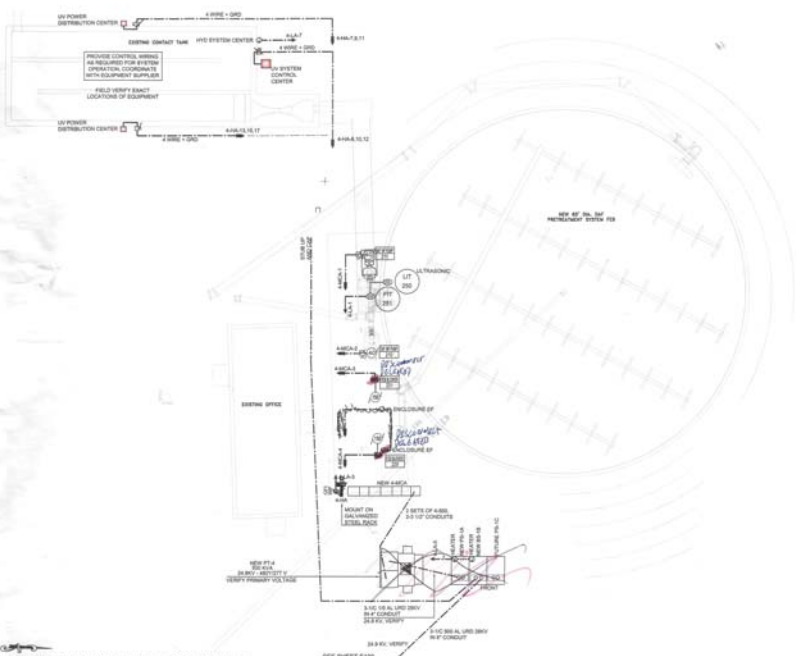
TAG	MOTOR HP	VFD HP	TYPE	INSTALLER	SERVICE
A	30.0	30.0	SENIA 1	SQUARE D	DAF EFF PUMP
B	30.0	30.0	SENIA 1	SQUARE D	DAF EFF PUMP
C	30.0	30.0	SENIA 1	SQUARE D	DAF EFF PUMP
D	30.0	30.0	SENIA 1	SQUARE D	DAF EFF PUMP
E	30.0	30.0	SENIA 1	SQUARE D	DAF EFF PUMP



EXISTING DAF/PRETREATMENT ELECTRIC ROOM  
 HVAC AND HVAC POWER PLAN  
 SCALE: 1/8" = 1'-0"

"FOR CONSTRUCTION"

<p>Donald L. Yates, P.E.          Structural Engineering          P.O. Box 988          Memphis, Tennessee 38108          478-789-9876          dl@donaldlyatespe.com</p>	<p><b>PROFESSIONAL ENGINEER</b>          STATE OF TENNESSEE          No. 00487          EXPIRES 12/31/16</p>	<p>DESIGN BY: SLV          DESIGNED BY: DLY          CHECK BY: SLV</p>	<p>REID ENGINEERING COMPANY, INC.          1210 Princess Anne Street          Fredericksburg, Virginia 22401          541(842) 371-6500 Fax (540) 371-8576</p>	<p>EXISTING DAF/PRETREATMENT BUILDING POWER, HVAC PLAN          ALLEN HARMON FOODS, LLC          PHASE ONE          WASTEWATER TREATMENT SYSTEM          UPGRADE &amp; EXPANSION</p>
		<p>DATE: 1/26/16 PROJECT NO.: 40024</p>		<p>SCALE: AS SHOWN DWG NO.: 8296</p>



**DAF PRETREATMENT SYSTEM FEB POWER PLAN**  
SCALE: 1/8" = 1'-0"

SEE SHEET E30 FOR CONTINUATION

Donald L. Yates, P.E.  
Electrical Engineering  
P.O. Box 98  
Marshall, Delaware 19904  
410-760-0288  
dl@reidengineering.com

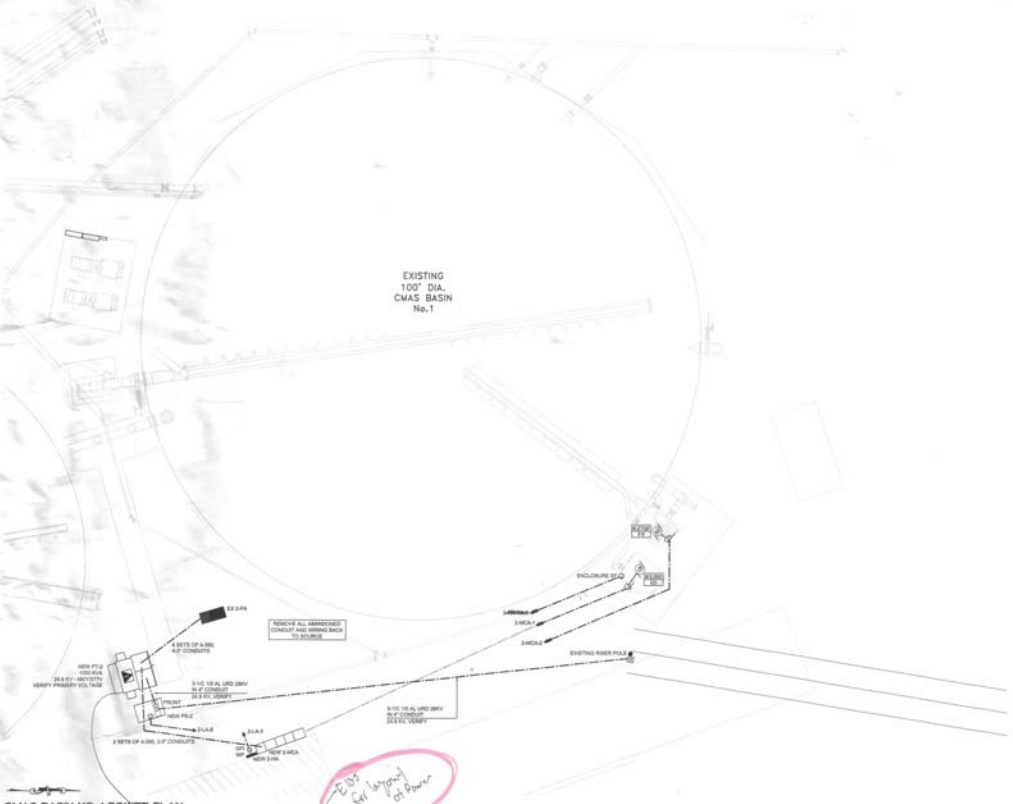
**"FOR CONSTRUCTION"**

DESIGNED BY: OLY  
CHECKED BY: OLY  
DRAWN BY: OLY

**REID ENGINEERING COMPANY, INC.**  
1210 Pinecone Area Street  
Fredericktown, Virginia 22407  
Tel: (410) 371-4800 Fax: (410) 371-4876

DAF PRETREATMENT SYSTEM FEB  
POWER PLAN  
ALLEN HARIM FOODS, LLC  
PHASE ONE  
WASTEWATER TREATMENT SYSTEM  
UPGRADE & EXPANSION  
BARBERSON, DELAWARE  
DATE: 1/8/19 PROJECT NO: 84023  
SCALE: AS SHOWN DWG. NO.: 8001

NO.	BY	CHKD	DATE	REVISION	DATE
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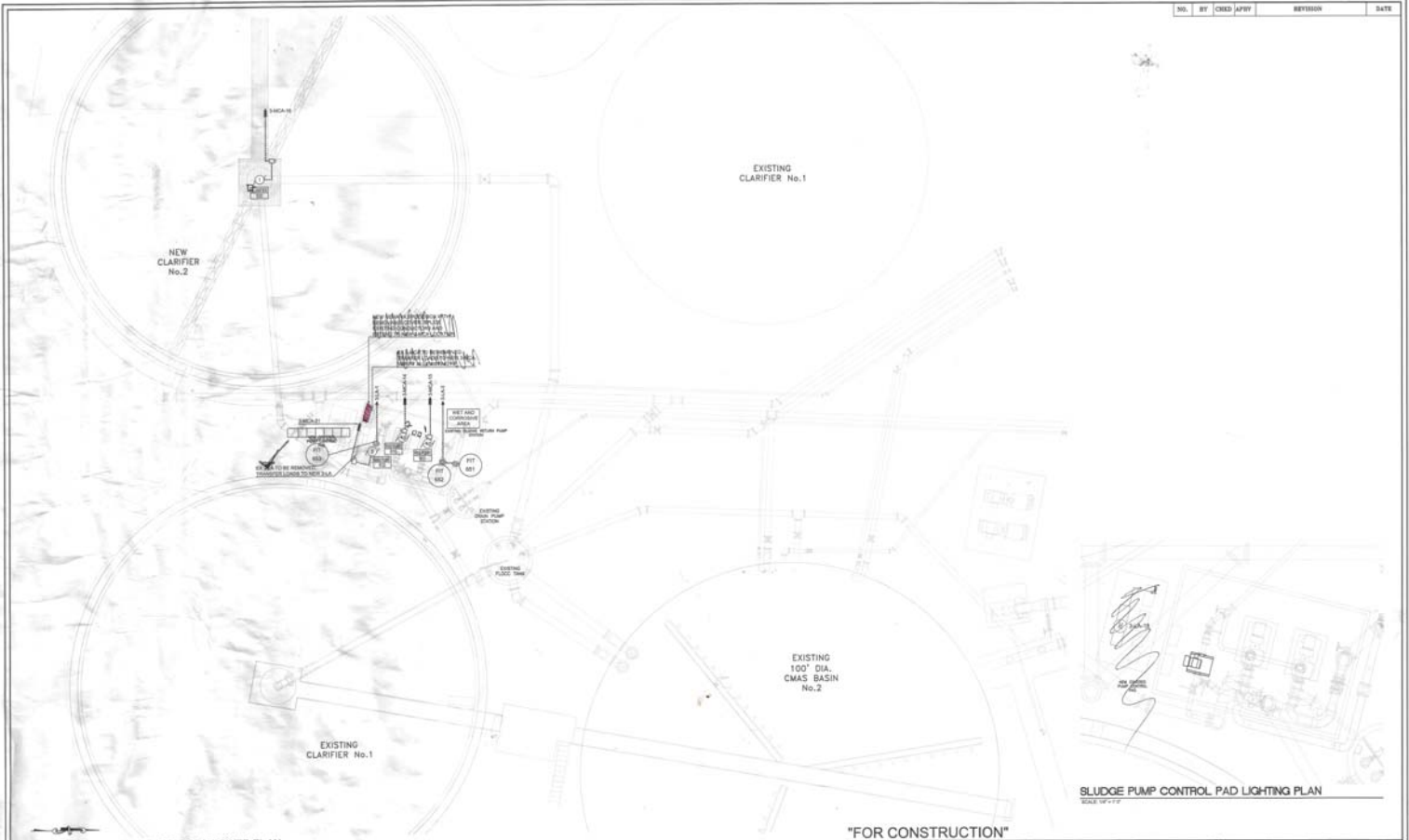


CMAS BASIN NO. 1 POWER PLAN  
SCALE: 1"=1'-0"

"FOR CONSTRUCTION"

<b>Donald L. Yates, P.E.</b> Professional Engineer P.O. Box 388 Independence, MO 64643 417-339-5875 dl@reidengineering.com		DESIGN BY: DLT DESIGNED BY: DLT CHECK BY: DLT	 1215 Prichess Area Street Independence, MO 64643 Tel: (417) 331-8550 Fax: (417) 331-8576	CMAS BASIN #1 POWER PLAN ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION
		REID ENGINEERING COMPANY, INC. 1215 Prichess Area Street Independence, MO 64643 Tel: (417) 331-8550 Fax: (417) 331-8576		BARBERSHIP: DELAYARS DATE: 1/2/16 PROJECT NO: 15004 SCALE: AS SHOWN DSD NO: 8282

NO.	BY	CHKD	APPV	REVISION	DATE



CLARIFIER AND CMAS BASIN NO. 2 POWER PLAN  
SCALE: 1/8" = 1'-0"

SLUDGE PUMP CONTROL PAD LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

"FOR CONSTRUCTION"

Donald L. Yates, PE  
Electrical Engineering  
P.O. Box 88  
Millsboro, Delaware 19966  
302-398-8888  
dl@reidengineering.com

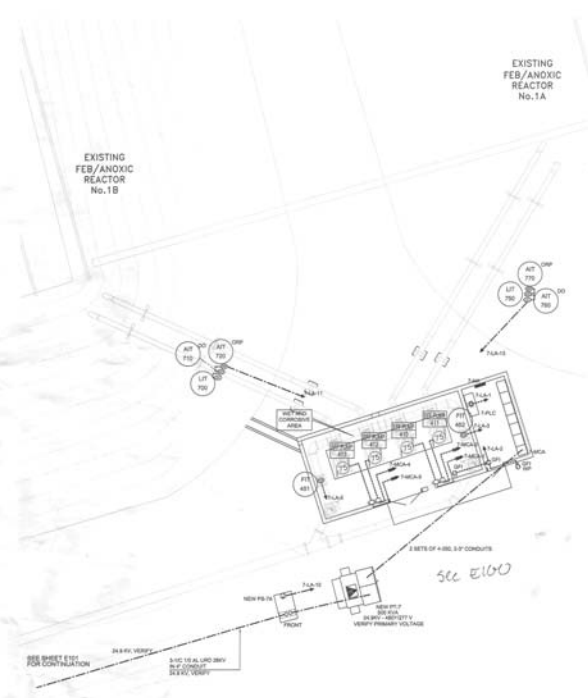


DESIGNED BY: SLY  
CHECKED BY: SLY  
DATE: 1/8/18

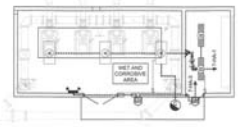
REID ENGINEERING COMPANY, INC.  
1210 Pinetree Area Street  
Fredericktown, Virginia 22031  
Tel: (304) 371-8500 Fax: (304) 371-8578

CMAS BASIN #2, CLARIFIER POWER, LIGHTING PLAN	
ALLEN HARIM FOODS, LLC	
PHASE ONE	
WASTEWATER TREATMENT SYSTEM	
UPGRADE & EXPANSION	
SUBMITTAL:	RELEASE:
DATE: 1/8/18	PROJECT NO.: AHC24
SCALE: AS SHOWN	DWG NO.: 8389

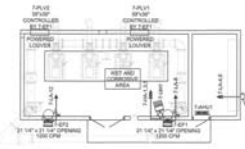
NO.	BY	CHKD	APST	REVISION	DATE
					9/28/15



**FEB/ANOXIC REACTOR #1 EFFLUENT PUMPING STATION POWER PLAN**  
SCALE 1/8"=1'-0"



**FEB/ANOXIC REACTOR #1 EFFLUENT PUMPING STATION LIGHTING PLAN**  
SCALE 1/8"=1'-0"



**FEB/ANOXIC REACTOR #1 EFFLUENT PUMPING STATION HVAC AND HVAC POWER PLAN**  
SCALE 1/8"=1'-0"

"FOR CONSTRUCTION"

**Donald L. Yates, P.E.**  
Professional Engineer  
1701 2nd St  
Fredericksburg, Virginia 22401  
540-740-5275  
dl.yates@reedengineering.net



DESIGNED BY: DLY  
DESIGNED BY: DLY  
CHKD BY: DLY  
This information constitutes a contract between the undersigned and the client. It is to be used only for the project and site identified herein. The undersigned shall not be held responsible for any errors or omissions on this drawing or for any consequences resulting therefrom.

**REED ENGINEERING COMPANY, INC.**  
1210 Potosi Avenue Street  
Fredericksburg, Virginia 22401  
Tel: (540) 371-8800 Fax: (540) 371-8578

**FEB/ANOXIC REACTOR #1 PUMPING STATION POWER, LIGHTING, HVAC PLANS**  
**PHASE ONE**  
**WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION**

<b>BARRBOSON,</b>	<b>DELAWARE</b>
DATE: 1/5/18	PROJECT NO: 1624
SCALE: AS SHOWN	DWG NO: 304

### MOTOR CONTROL CENTER SCHEDULE

PANEL	2-210A	NO. 1	VOLTS	480Y/277	BRAND	4P	NO. LOCATION	BTION	BVA RPL. (C/P/S)			
TYPE	3-0	1	3	4	ENCL.	200	3	3	3			
COL	1	2	3	4	5	6	7	8	9			
SECTION	NO.	AMP	STARTER	NO. OF	FRAME	TRP	POLE	TERMIN.	SCHEDULE	TYPE	SERVICE	COMMENTS
1	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201

NOTE: PROVIDE EXHAUST FANS, SPACE HEATERS AND FLS THERM. LIMITERS. HEATERS SHALL BE CONTROLLED FROM FUSE CONTROL. TRANSFORMER PROVIDED WITH THE M.C.C. PANELS SHALL BE CONTROLLED FOR BOTH TEMPERATURE AND HUMIDITY.

### PANELBOARD SCHEDULE

PANEL	2-210A	NO. 1	VOLTS	480Y/277	BRAND	4P	NO. LOCATION	BTION	BVA RPL. (C/P/S)			
TYPE	3-0	1	3	4	ENCL.	200	3	3	3			
COL	1	2	3	4	5	6	7	8	9			
SECTION	NO.	AMP	STARTER	NO. OF	FRAME	TRP	POLE	TERMIN.	SCHEDULE	TYPE	SERVICE	COMMENTS
1	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201


### LIGHTING FIXTURE SCHEDULE

FEATURE DESIGNATION	VOLTS	WATTS	MANUFACTURER AND MODEL NUMBER	NO.	TYPE	COMMENTS
A	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
B	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
C	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
ZA	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
ZB	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
ZC	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION
ZD	277	100	EMERALD-10-AD-171		L20	SUSPENDED WET LOCATION

### PANELBOARD SCHEDULE (Continued)

PANEL	2-210A	NO. 1	VOLTS	480Y/277	BRAND	4P	NO. LOCATION	BTION	BVA RPL. (C/P/S)			
TYPE	3-0	1	3	4	ENCL.	200	3	3	3			
COL	1	2	3	4	5	6	7	8	9			
1	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201

**"FOR CONSTRUCTION"**

Donald L. Yelen, P.E. Designer 4701 10th St SE Everett, WA 98203 425-766-0575 dl@reidengineering.com		DESIGN BY: DLY DESIGNED BY: DLY CHECK BY: DLY	<b>REID ENGINEERING COMPANY, INC.</b> 1210 Process Area Street Everett, WA 98203 Tel: (425) 271-8502 Fax: (425) 271-8578	<b>ELECTRIC AND LIGHTING SCHEDULES</b> ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION BARBERSON, WA DATE: 1/8/18 PROJECT NO. 152415 SCALE: AS SHOWN DWG NO. E200
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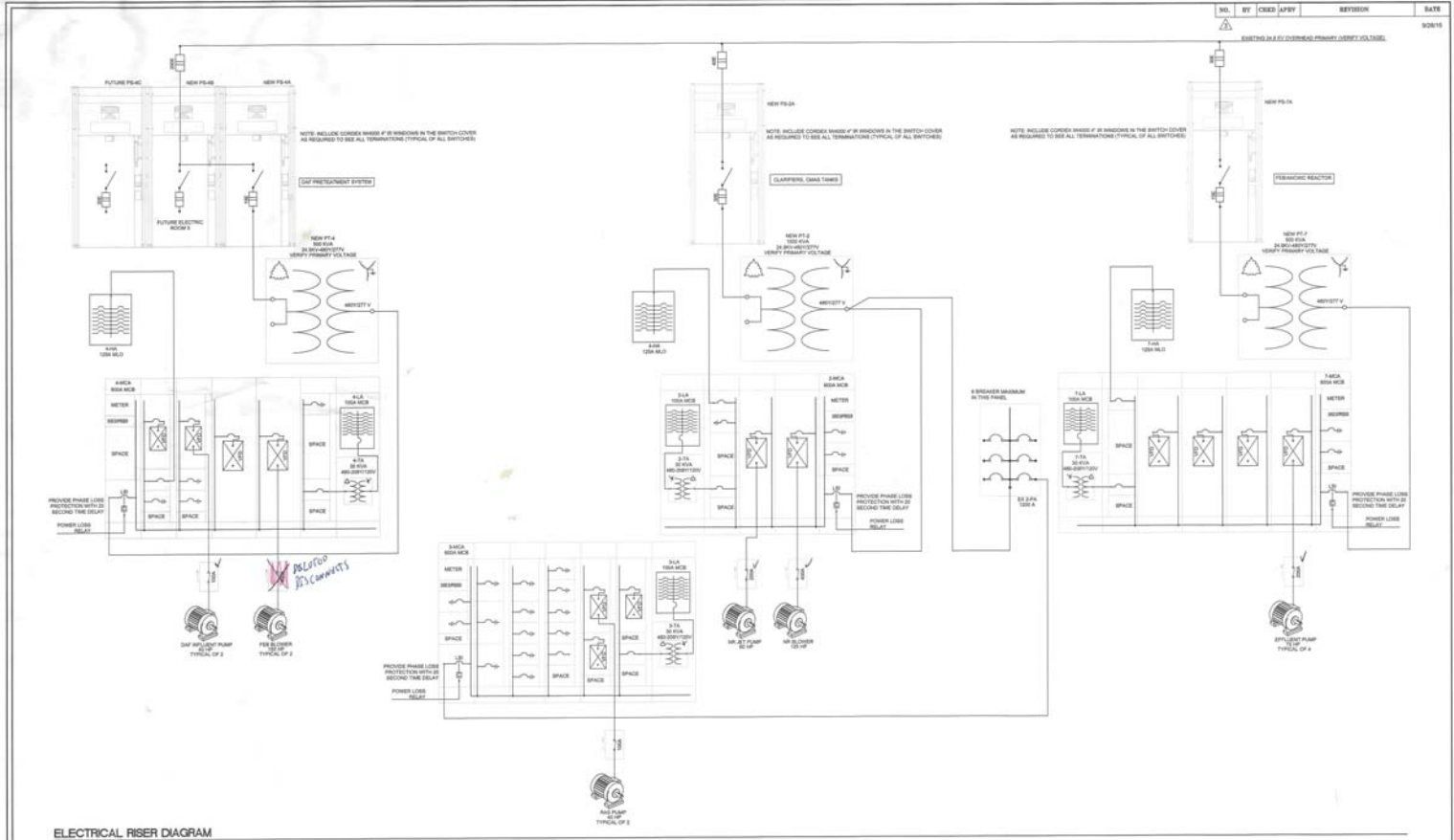








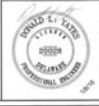
NO. BY: OJED/JAFV REVISION DATE  
 SHEET NO. 8 OF 20 (SEE SHEET NO. 7 FOR OVERALL PROJECT VOLTAGE)



ELECTRICAL RISER DIAGRAM

**"FOR CONSTRUCTION"**

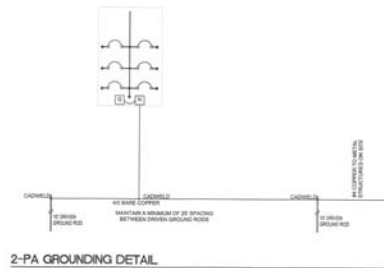
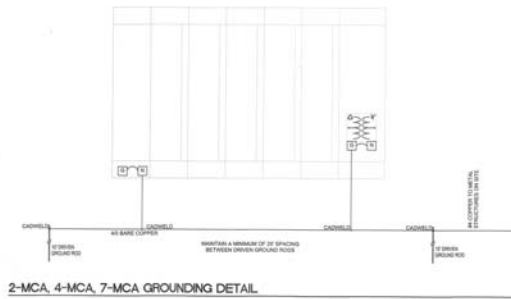
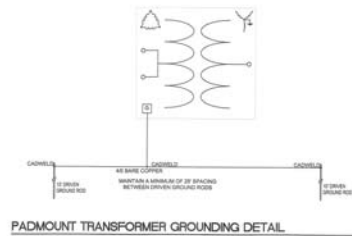
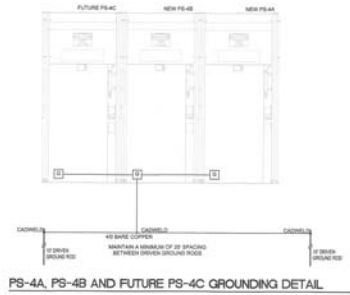
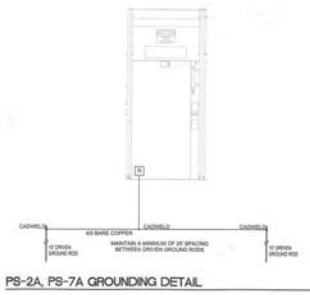
Donald L. Yates, P.E.  
*Electrical Engineering*  
 7100 8th Ave.  
 Minneapolis, Minnesota 55424  
 612-726-0002  
 dl@donaldyateseng.com



DESIGNED BY: DLY  
 CHECKED BY: DLY  
 DATE: 1/8/18

REID ENGINEERING COMPANY, INC.  
 1210 Pioneer Avenue Street  
 Minneapolis, Minnesota 55421  
 Tel: (612) 271-8000 Fax: (612) 271-8076

ELECTRICAL RISER DIAGRAM		
ALLEN HARM FOODS, LLC WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION		
DATE: 1/8/18	PROJECT NO: 18024	SCALE: AS SHOWN
DRAWN BY: OJED		DATE: 1/8/18
CHECKED BY: JAFV		DATE: 1/8/18



"FOR CONSTRUCTION"

Donald L. Yates, P.E.  
Professional Engineer  
P.O. Box 88  
Martinsburg, West Virginia 25904  
(304) 763-0023  
dl@reidengineering.com



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1210 Pinhook Area Street  
Fremont, VA 22024  
Tel: (804) 371-8800 Fax: (804) 371-8878

GROUNDING PLANS			
ALLEN HARM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION			
BARBERS	DATE	PROJECT NO.	REVISION
	1/8/18	18024	
SCALE:	AS SHOWN	DWG. NO.	8481