

Sussex Conservation District 302-956-2219
 4415 - 01.11 302-391-6155

Mass. Dept. of Del. 1-800-382-5557 / 1-8-2016
 Twp. of Del. 1-900-721-9220 5-21-2016

ALLEN HARIM FOODS, LLC

HARBESON, DELAWARE

WASTEWATER TREATMENT SYSTEM

UPGRADE & EXPANSION

PHASE ONE

NO.	BY	DATE	REVISION	DATE
1	HE	JPH	REVISION PER STATE REVIEW	8.22.15
2	HE	JPH	REVISION 1 P.S. & APPROVAL LETTERS	8.26.15
3	HE	JPH	FOR CONSTRUCTION	1.8.16



WWTP SITE VICINITY MAP
 SCALE: 1"=2000'



PROJECT CONTACTS

OWNER: ALLEN HARIM FOODS, LLC
 POINT OF CONTACT:
 JIM CLINTON
 HARBESON, DE
 PH 302-351-6785

FACILITY LOCATION:
 1070 HARBESON ROAD
 HARBESON, DE 19811
 PH 302-388-9840

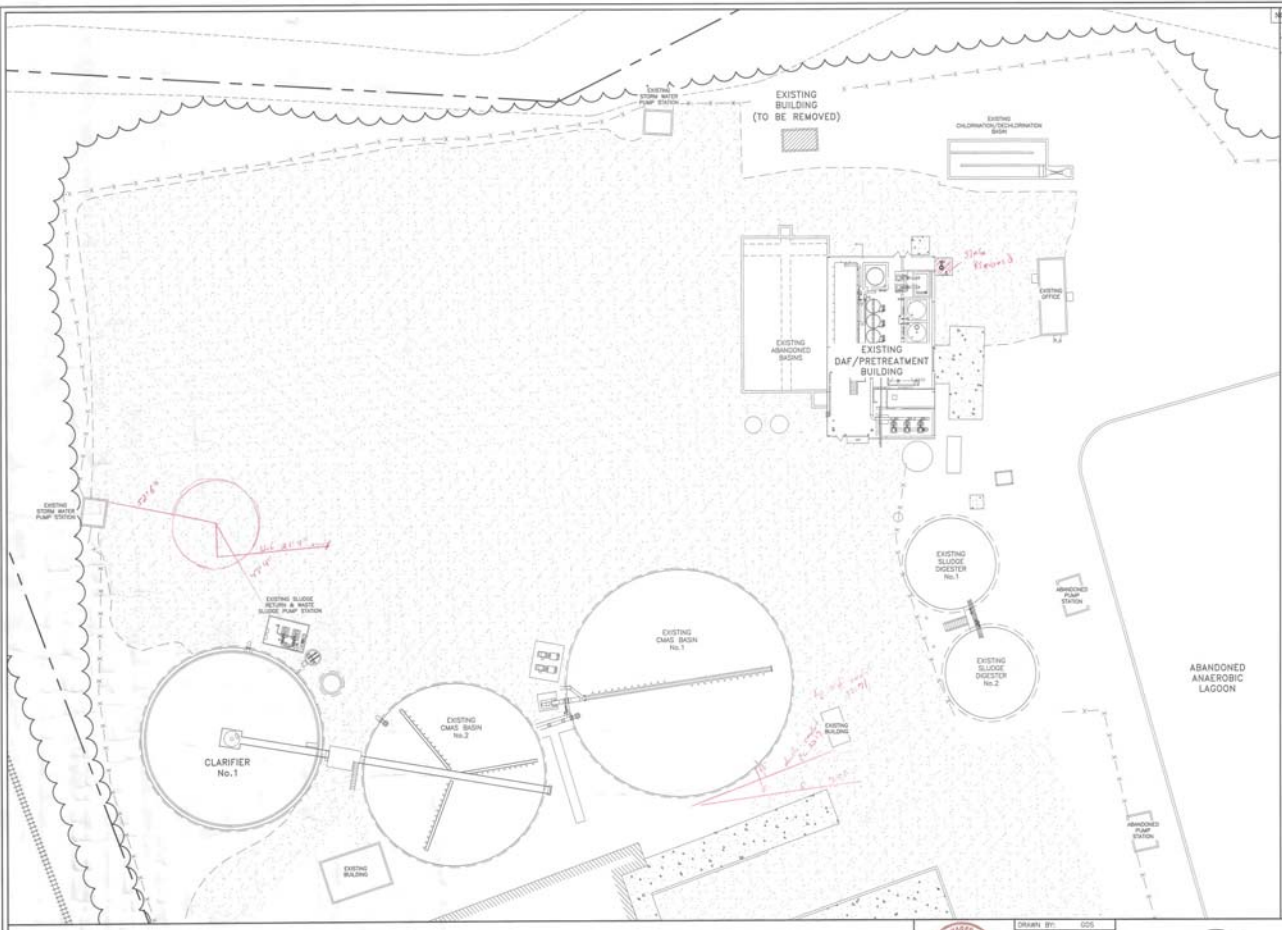
CIVIL ENGINEER:
 JOHN H. REID, P.E.
 REID ENGINEERING COMPANY, INC.
 1715 PRINCIPLE ASH STREET
 FREDERICKSBURG, VA 22401
 PH 540-371-8858
 FAX 540-371-8875

STRUCTURAL ENGINEER:
 DONALD W. VATES, P.E.
 ENGINEERING CONSULTANTS
 310 HARBESON STREET, SUITE C
 LONDON, MD 20786
 PH 410-770-5306

ELECTRICAL ENGINEER:
 DONALD W. VATES, P.E.
 ELECTRICAL ENGINEERING
 P.O. BOX 301
 MOUNTAIN VIEW, MD 20854
 PH 410-328-2208
 FAX 410-328-4511

PROJECT DESCRIPTION ALLEN HARIM FOODS, LLC WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION		DRAWN BY: GCS DESIGNED BY: JPH CHECK BY: HE		CONSTRUCTION PLANS JANUARY 8, 2016 ALLEN HARIM FOODS, LLC WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION SUBSECTION: _____ RELEASE DATE: 1-8-16 PROJECT NO: 16001 SCALE: 1"=2000' DWG. NO: 0001
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NO.	BY	CHKD	APPROV	REVISION	DATE
1	SSS	AKZ	JMH	REVISION PER STATE REVIEW	8.23.19
2	SSS	AKZ	JMH	FOR CONSTRUCTION	1.8.19



- ABBREVIATIONS:**
- UV = ULTRA VIOLET
 - DAF = DROCKED AIR FLUTATION
 - FES = FLOW EQUALIZATION BASIN
 - CMBA = CONCRETE BASK, ACTIVATED SLUDGE
 - AS = RETURN ACTIVATED SLUDGE
 - WAS = WASTE ACTIVATED SLUDGE
 - EX = EXISTING
- LEGEND**
- PROPERTY LINE ————
 - ADJOINING PROPERTY LINE - - - - -
 - MAJOR CONTOUR ————
 - MINOR CONTOUR - - - - -
 - EDGE OF PAVEMENT ————
 - EDGE OF GRAVEL ————
 - CSRS ————
 - EDGE OF DIRT ROAD ————
 - NEW CONSTRUCTION ————
 - PAVEMENT HATCH [diagonal lines]
 - CONCRETE HATCH [cross-hatch]
 - GRAVEL HATCH [stippled]
 - BACKING CURBLINE [dashed]
 - REINFORCING WALL [dotted]
 - FENCE LINE — — — — —
 - RAILROAD TRACE [cross-ticks]
 - TREE LINE [wavy]
 - UNDERGROUND WATER PIPE [dashed with circles]
 - UNDERGROUND GAS PIPE [dashed with triangles]
 - UNDERGROUND ELECTRIC [dashed with squares]



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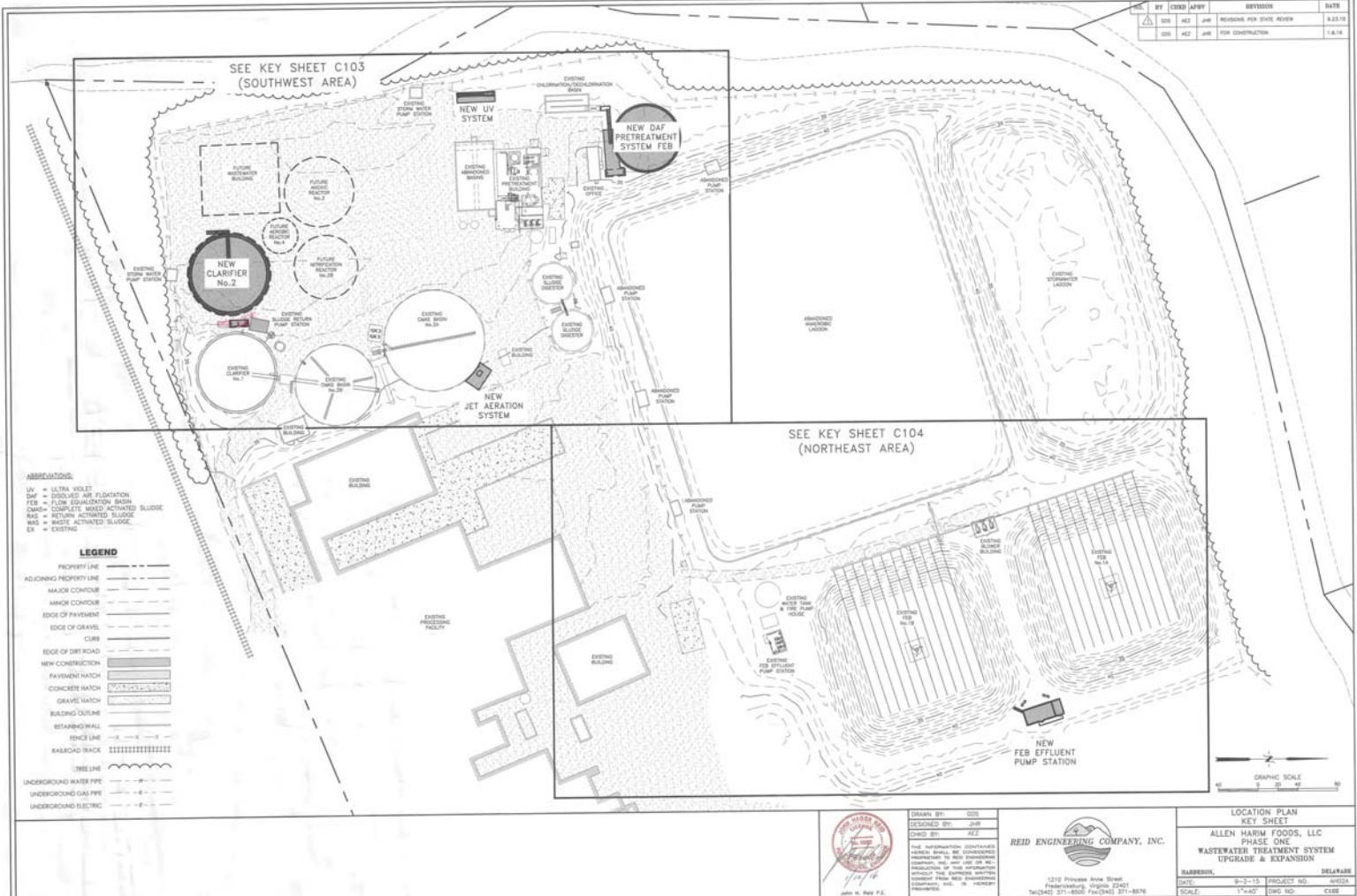
DESIGNED BY: JMH
 CHECKED BY: AKZ
 DATE: 8/23/19

REID ENGINEERING COMPANY, INC.
 1210 Finesse Lane Street
 Petersburg, Virginia 23203
 Tel: (804) 371-8555 Fax: (804) 371-8516

**WASTEWATER TREATMENT SYSTEM
 DEMOLITION PLAN
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION**

SUBBERON: RELAYERS
 DATE: 8-23-19 PROJECT NO: 64024
 SCALE: 1"=20' DWS NO: 6388

REV	BY	CHKD	APPV	REVISION	DATE
1	GM	MD	JAM	REVISION FOR STATE REVIEW	8.23.18
2	GM	MD	JAM	FOR CONSTRUCTION	10.18



- ABBREVIATIONS:**
- UV = ULTRA VIOLET
 - DAF = DISSOLVED AIR FLOTATION
 - FEB = FLUORIDATION
 - CMAS = COMPLETE MIXED ACTIVATED SLUDGE
 - WAS = WASTE ACTIVATED SLUDGE
 - EX = EXISTING
- LEGEND**
- PROPERTY LINE
 - ADJOINING PROPERTY LINE
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - EDGE OF PAVEMENT
 - EDGE OF GRAVEL
 - EDGE OF CURB
 - EDGE OF DIRT ROAD
 - NEW CONSTRUCTION
 - PAVEMENT HATCH
 - CONCRETE HATCH
 - GRAVEL HATCH
 - BUILDING OUTLINE
 - RETAINING WALL
 - FENCE LINE
 - RAILROAD TRACK
 - TWINE LINE
 - UNDERGROUND WATER PIPE
 - UNDERGROUND GAS PIPE
 - UNDERGROUND ELECTRIC

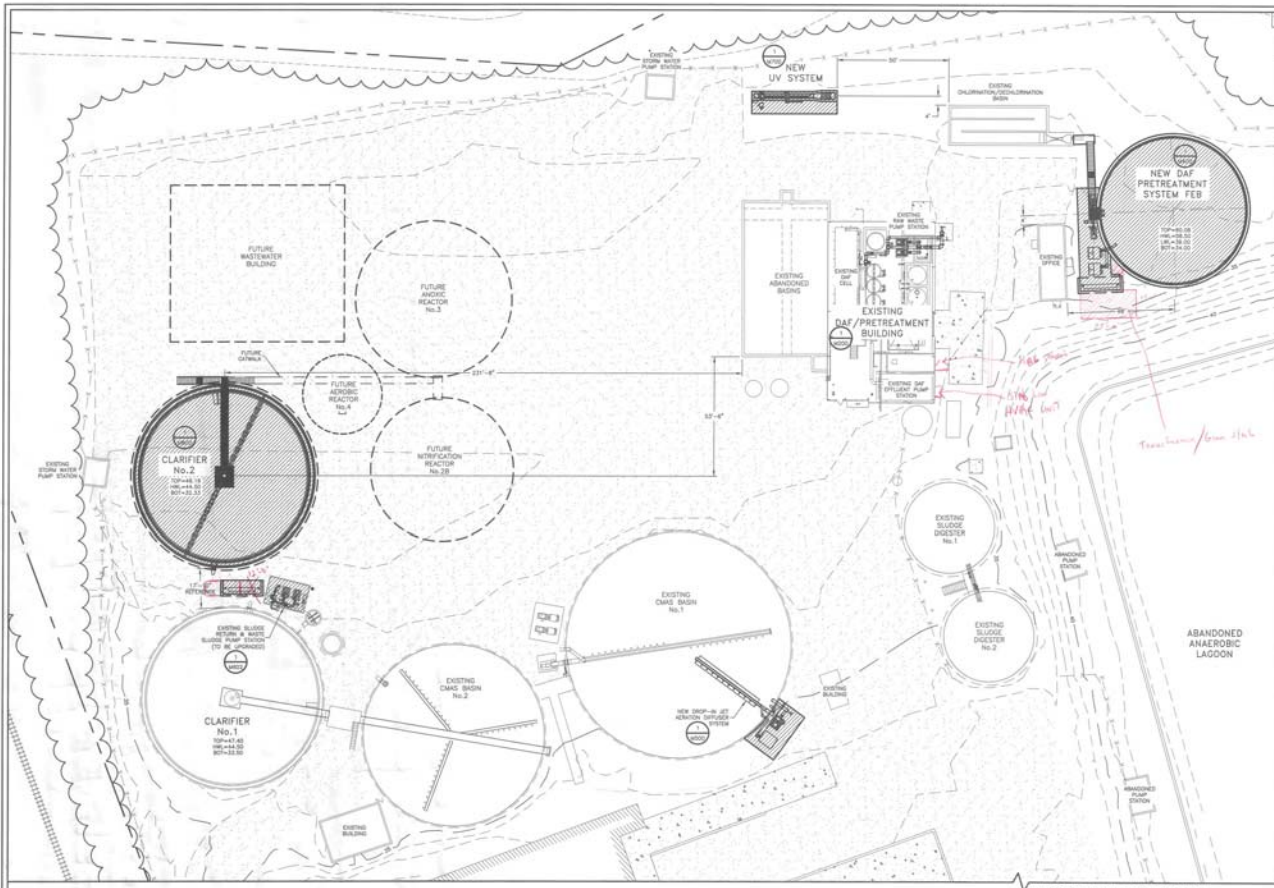


DESIGNED BY: GM
 CHECKED BY: MD
 DRAWN BY: JAM

REID ENGINEERING COMPANY, INC.
 1210 Pritchard Avenue Street
 Fredericksburg, Virginia 22401
 TEL: (540) 271-8800 FAX: (540) 371-8576

LOCATION PLAN KEY SHEET
ALLEN HARIM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

DATE: 8-2-18 PROJECT NO: 18002
 SCALE: 1"=40' DWP NO: C103



NO.	BY	CHKD	APPY	REVISION	DATE
001	AEJ	JAB		REVISION PER STATE REVIEW	8.23.16
002	AEJ	JAB		FOR CONSTRUCTION	1.8.18

ABBREVIATIONS:

- UV = ULTRA VIOLET
- DAF = DISSOLVED AIR FLOTATION
- FEB = FLOW EQUALIZATION BASIN
- OMS = COMPLETE MIXED ACTIVATED SLUDGE
- RAE = RETURN ACTIVATED SLUDGE
- WAS = WASTE ACTIVATED SLUDGE
- EX = EXISTING

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- MAJOR CONTOUR
- MAJOR CONTOUR
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CRS
- EDGE OF DIRT ROAD
- NEW CONSTRUCTION
- PAVEMENT HATCH
- CONCRETE HATCH
- GRAVEL HATCH
- BUILDING CURVE
- RETAINING WALL
- FENCE LINE
- RAILROAD TRACE
- TREE LINE
- UNDERGROUND WATER PIPE
- UNDERGROUND GAS PIPE
- UNDERGROUND ELECTRIC

LEGEND

- SECTION NUMBER
- SECTION NUMBER

GRAPHIC SCALE

MATCH LINE SHEET C104

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	DRAWN BY: GDS CHECKED BY: JAB DESIGNED BY: AEJ		LOCATION PLAN (SOUTHWEST AREA) ALLEN HARRIS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION
	1210 Phoenix Drive Street Franklin, Ohio 43121 Tel: (614) 571-4800 Fax: (614) 571-4876			SUBMITTED: DELAWARE DATE: 9-2-18 PROJECT NO.: 18024 SCALE: 1"=20' SHEET NO.: 0303

NO.	BY	CHKD	APPR	REVISION	DATE
1	GD	REJ	JAF	REVISION FOR OVER SIZES	12.21.15
2	JR	REJ	JAF	REVISION FOR P.I. & TYPICAL NOTINGS	12.21.15
3	GD	REJ	JAF	FOR CONSTRUCTION	6.8.16

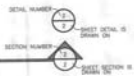
MATCH LINE SHEET C103

ABANDONED ANAEROBIC LAGOON

- ABBREVIATIONS:**
- UV = ULTRA VIOLET
 - DAF = DISSOLVED AIR FLOTATION
 - FEB = FLOW EQUALIZATION BASIN
 - COMB = COMPLETE MIXED ACTIVATED SLUDGE
 - BAAS = BATCH ACTIVATED SLUDGE
 - BA = BATCH ACTIVATED SLUDGE
 - EA = EXISTING

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- MAJOR CONDUIT
- MAJOR CONDUIT
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CURB
- EDGE OF DIRT ROAD
- NEW CONSTRUCTION
- PAVEMENT HATCH
- CONCRETE HATCH
- GRAVEL HATCH
- BUILDING OUTLINE
- RETAINING WALL
- FENCE LINE
- RAILROAD TRACK
- TREE LINE
- UNDERGROUND WATER PIPE
- UNDERGROUND GAS PIPE
- UNDERGROUND ELECTRIC

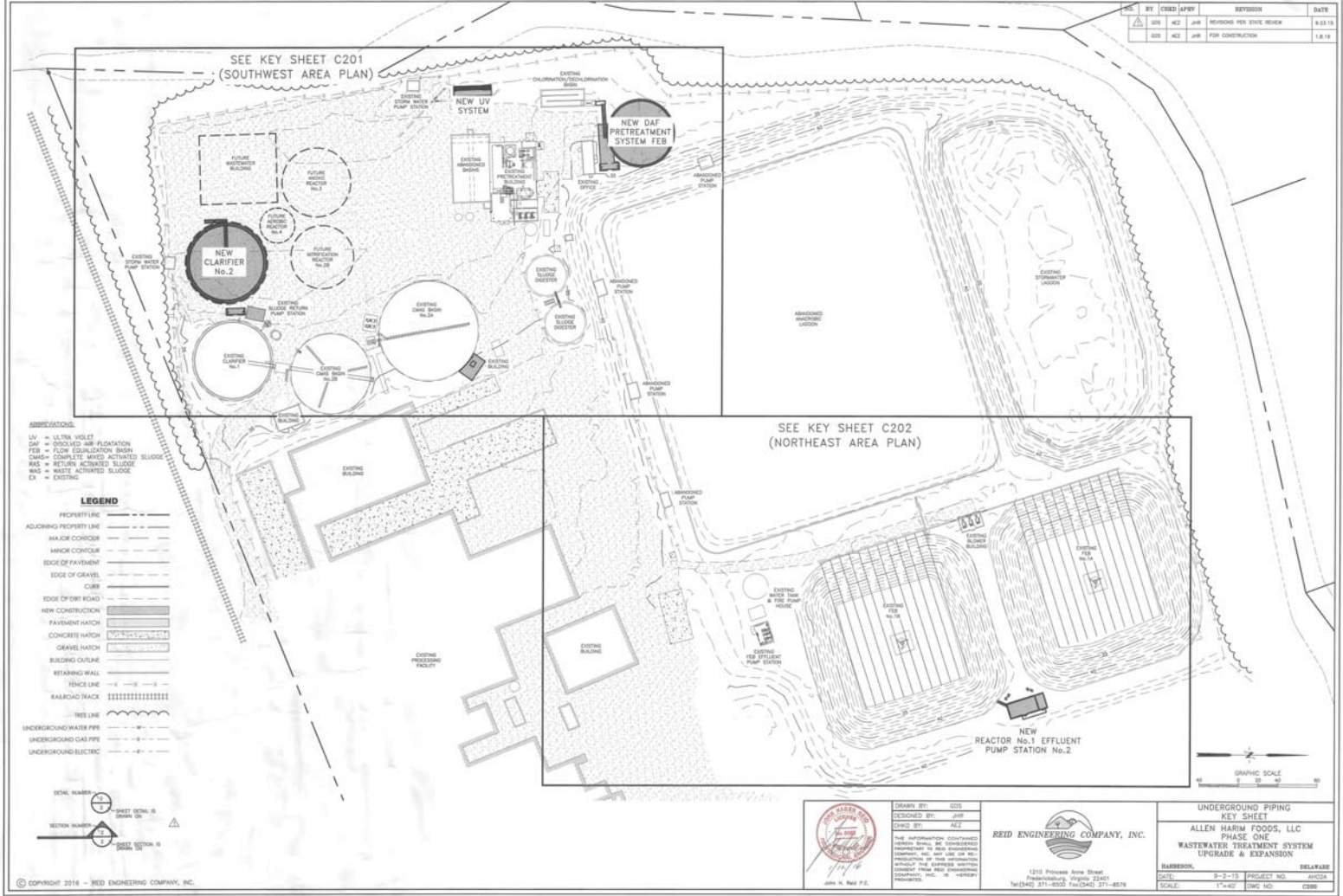


DESIGNED BY: GD
 CHECKED BY: REJ
 DATE: 6/8/16

REID ENGINEERING COMPANY, INC.
 1210 Princess Anne Street
 Fredericksburg, Virginia 22407
 Tel: (540) 371-8000 Fax: (540) 371-8076

LOCATION PLAN (NORTHEAST AREA)	
ALLEN HARIM, LLC	
PHASE ONE	
WASTEWATER TREATMENT SYSTEM	
UPGRADE & EXPANSION	
DATE: 8-3-15	PROJECT NO: 150218
SCALE: 1"=30'	DWG NO: C104

NO.	BY	CHKD	APPROV	REVISION	DATE
1	JRH	JRH	JRH	REVISION PER STATE REVIEW	8.23.15
2	JRH	JRH	JRH	FOR CONSTRUCTION	1.8.16



- ABBREVIATIONS:**
 UV = ULTRA VIOLET
 DAF = DISSOLVED AIR FLOTATION
 FAS = FLOW REGULATING BASIN
 CMAF = COMPLETE MIXED ACTIVATED SLUDGE
 RAS = RETURN ACTIVATED SLUDGE
 WAS = WASTE ACTIVATED SLUDGE
 EX = EXISTING
- LEGEND**
- PROPERTY LINE
 - ADJOINING PROPERTY LINE
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - EDGE OF PAVEMENT
 - EDGE OF GRAVEL
 - CURB
 - EDGE OF DIRT ROAD
 - NEW CONSTRUCTION
 - PAVEMENT HATCH
 - CONCRETE HATCH
 - GRAVEL HATCH
 - BUILDING OUTLINE
 - RETAINING WALL
 - TRUCK LINE
 - RAILROAD TRACK
 - TREE LINE
 - UNDERGROUND WATER PIPE
 - UNDERGROUND GAS PIPE
 - UNDERGROUND ELECTRIC

DATE NUMBER

SHEET TOTAL IS

SECTION NUMBER

DATE

John H. Reid P.E.

DRAWN BY: GOS
 DESIGNED BY: JRH
 CHECKED BY: ALE

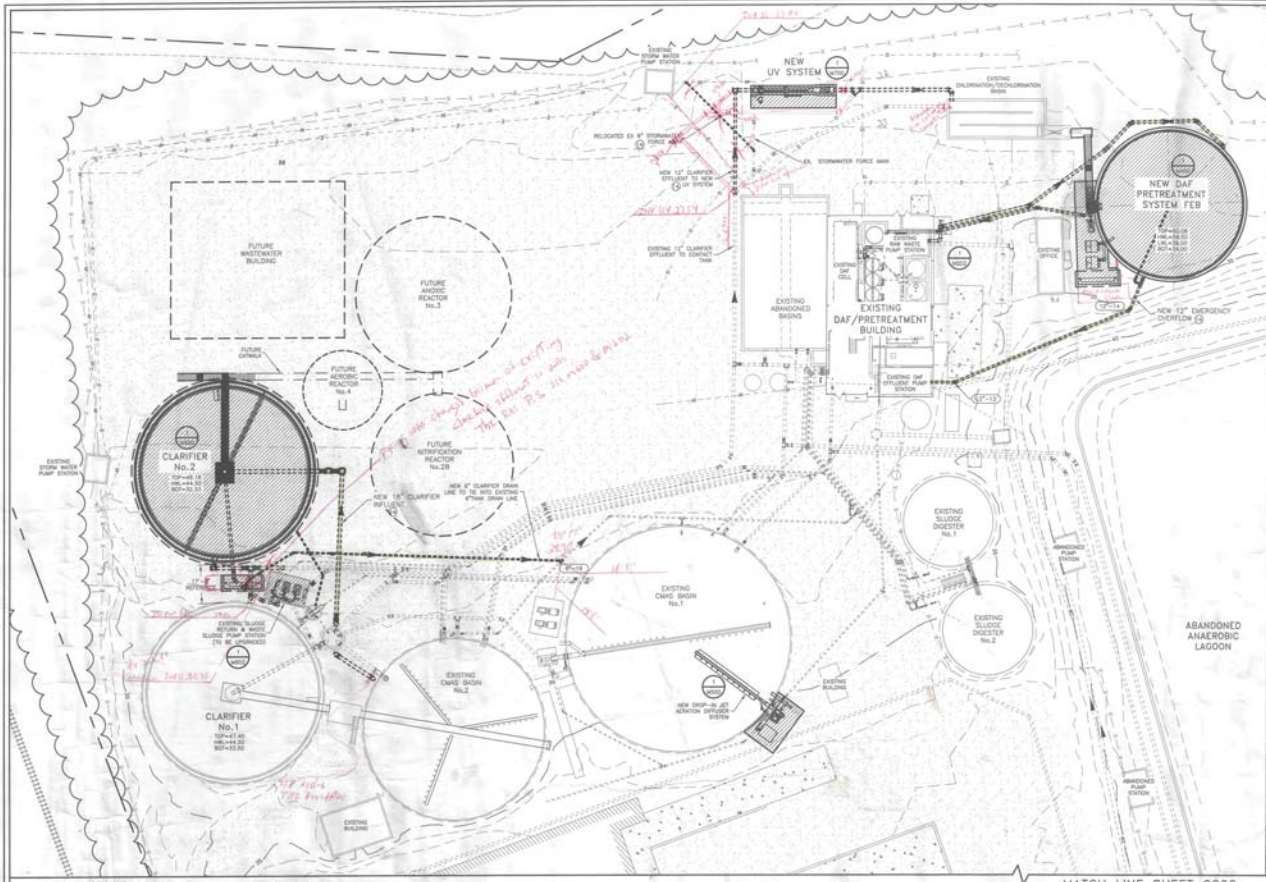
THE INFORMATION CONTAINED
 HEREIN SHALL BE CONSIDERED
 RELIABLE BY THE CONTRACTOR
 COMPANY, INC. AND USE ON THE
 PROJECTS OF THE CONTRACTOR
 COMPANY SHALL BE THE SOLE
 RESPONSIBILITY OF THE CONTRACTOR
 COMPANY, INC. OR ITS
 SUBCONTRACTORS.

REID ENGINEERING COMPANY, INC.

1215 Prichard Avenue Street
 Independence, Ohio 43131
 Tel: (614) 371-6500 Fax: (614) 271-8576

UNDERGROUND PIPING
 KEY SHEET
 ALLEN HARM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBER: 9-2-15 PROJECT NO.: 11000
 DATE: 11-16-15 DWG NO.: C200



NO.	BY	CHKD	DATE	REVISION	SHEET
1	AS	AEJ	JAN	REVISED PER STATE REVIEW	4.00.15
2	AS	AEJ	JAN	REVISED PERIN	11.24.15
3	AS	AEJ	JAN	FOR CONSTRUCTION	1.14.16

- NOTES:**
1. THE CONTRACTOR SHALL CONTACT "DEE UTILITY" OF DELAWAREA 1-800-283-8855 PRIOR TO PERFORMING ANY EARTHWORK ACTIVITIES AND COMPLY WITH ALL LOCAL AND STATE LAWS AND REGULATIONS PERTAINING TO EXCAVATION.
 2. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 4' BETWEEN ALL PIPES, MINIMUM CLEAR VERTICAL SEPARATION BETWEEN POTABLE WATER LINES AND SEWER LINES SHALL BE 18" OF CONCRETE ENGAGEMENT. IF NOT POSSIBLE (1" MINIMUM CONCRETE ALL AROUND PIPE).
 3. MINIMUM PIPE COVER SHALL BE 24" UNLESS OTHERWISE NOTED.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER OF ANY UNDERGROUND UTILITIES. THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE RECORDS WHO DOES NOT CONSTITUTE A GUARANTEE OF THEIR ACTUAL LOCATIONS OR THAT THEY HAVE ALL BEEN SHOWN.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DOING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OR GROUNDING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT ALL HIGH AND LOW POINTS IN THE PIPE PROFILES. CONTRACTOR SHALL SUBMIT AS-BUILT INFORMATION TO REID ENGINEERING FOR THE PREPARATION OF PROJECT RECORD DRAWINGS.
 6. THE CONTRACTOR SHALL MAINTAIN AS-BUILTS ON SITE OF THE INSTALLED PIPE LOCATIONS. AS-BUILT INFORMATION SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND PIPE, FITTINGS AND AT ALL HIGH AND LOW POINTS IN THE PIPE PROFILES. CONTRACTOR SHALL SUBMIT AS-BUILT INFORMATION TO REID ENGINEERING FOR THE PREPARATION OF PROJECT RECORD DRAWINGS.
 7. REFER TO STRUCTURAL "S" SHEETS FOR FOUNDATION INFORMATION AND DETAILS.
 8. REFER TO MECHANICAL "M" SHEETS FOR ADDITIONAL INFORMATION AND PIPING DETAILS.
 9. REFER TO STRUCTURAL "S" SHEETS FOR FOUNDATION INFORMATION AND DETAILS.
 10. REFER TO "G" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS, RESTRAINED JOINTS, AND RECORD REQUIREMENTS.

LEGEND

FITTING SIZE (ø) FITTING TYPE
 PIPE SIZE (ø) PIPE TYPE
 VALVE SIZE (ø) VALVE TYPE
 (SEE SHEET 0100 FOR SCHEDULES & DIMENSIONS)

DETAIL NUMBER
 SECTION NUMBER
 GRAPHIC SCALE
 0 10 20 40'

LEGEND

PROPERTY LINE
 ADJOINING PROPERTY LINE
 MAJOR CORNER
 MINOR CORNER
 EDGE OF PAVEMENT
 EDGE OF GRAVEL
 CURB

EDGE OF DIRT ROAD
 NEW CONSTRUCTION
 PAVEMENT MATCH
 CONCRETE MATCH
 GRAVEL MATCH
 BUILDING OUTLINE
 RETAINING WALL
 FENCE LINE
 RAILROAD TRACK

NEW LINE
 UNDERGROUND WATER PIPE
 UNDERGROUND GAS PIPE
 UNDERGROUND ELECTRIC

ABBREVIATIONS:
 UV = ULTRA VIOLET
 DAF = DROPLET AIR FLOTATION
 FES = FLOW EQUALIZATION BASIN
 CMB = COMPLETE MIXED ACTIVATED SLUDGE
 RAS = RETURN ACTIVATED SLUDGE
 WAS = WASTE ACTIVATED SLUDGE
 EX = EXISTING

811
 Know what's below. Call before you dig.

REID ENGINEERING COMPANY, INC.
 1210 Pulaski Lane Street
 Philadelphia, Pa. 19107
 Tel: 800-371-8888 (Toll-Free) 215-481-8174

DESIGNED BY: AS	PROJECT NO: 1501
CHECKED BY: AEJ	DATE: 01-23-15

UNDERGROUND PIPING PLAN (SOUTHWEST AREA)
 ALLEN HARRIS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

HARRISBURG, BELLEVILLE
 DATE: 01-23-15 PROJECT NO: A5624
 SCALE: 1"=20' DWG NO: 0881

MATCH LINE SHEET C201

ABANDONED ANAEROBIC LAGOON

NO.	BY	CHKD	APPR	REVISION	DATE
001	ACE	JPH	JPH	ISSUES PER STATE REVIEW	8.23.15
002	JPH	ACE	JPH	REACTOR 1 P.S. & PIPING MATERIALS	8.24.15
003	ACE	JPH	JPH	REVISED PIPING	11.24.15
004	ACE	JPH	JPH	FOR CONSTRUCTION	1.8.16

- NOTES:**
1. THE CONTRACTOR SHALL CONTACT "MISE UTILITY" OF DELMARVA POWER AND LIGHT TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION ACTIVITIES AND COMPLY WITH ALL LOCAL AND STATE LAWS AND REGULATIONS PERTAINING TO EXCAVATION.
 2. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 8' BETWEEN ALL PIPES. MINIMUM CLEAR VERTICAL SEPARATION BETWEEN POTABLE WATER LINES AND SEWER LINES SHALL BE 16" OF CONCRETE ENCLOSURE. IF NOT POSSIBLE 8" MINIMUM CONCRETE ALL AROUND PIPES.
 3. MINIMUM PIPE COVER SHALL BE 24" UNLESS OTHERWISE NOTED.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER OF ANY CHANGES OF CONDITIONS ATTACHED TO PERMITS OBTAINED FROM THE AUTHORITY ISSUING PERMITS.
 5. REID ENGINEERING COMPANY DOES NOT CERTIFY TO THE LOCATION OF OR THE EXISTENCE OF ANY EXISTING UNDERGROUND UTILITIES. THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE RECORDS. THIS DOES NOT CONSTITUTE A GUARANTEE OF THEIR ACTUAL LOCATIONS OR THAT THEY HAVE ALL BEEN SHOWN.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OR ORDERING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL CROSSING POINTS. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS THE CONTRACTOR SHALL NOTIFY THE OWNER AND REID ENGINEERING COMPANY IMMEDIATELY.
 7. THE CONTRACTOR SHALL MAINTAIN AS-BUILT RECORDS OF THE INSTALLED PIPE LOCATIONS, AS-BUILT INFORMATION ON ALL UNDERGROUND PIPE FITTINGS AND AT ALL HIGH AND LOW POINTS IN THE PIPE PROFILES. CONTRACTOR SHALL SUBMIT AS-BUILT INFORMATION TO REID ENGINEERING FOR THE PREPARATION OF PROJECT RECORD DRAWINGS.
 8. REFER TO MECHANICAL "M" SHEETS FOR ADDITIONAL INFORMATION AND PIPING DETAILS.
 9. REFER TO STRUCTURAL "S" SHEETS FOR FOUNDATION INFORMATION AND DETAILS.
 10. REFER TO "P" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, GALVANIZING, RESTRAINED JOINTS, AND RECORDING REQUIREMENTS.

LEGEND

FITTING SIZE (8" - 24") FITTING TYPE

PIPE SIZE (8" - 24") PIPE TYPE

VALVE SIZE (8" - 24") VALVE TYPE

(SEE SHEET D100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER

SECTION NUMBER

GRAPHIC SCALE

ABBREVIATIONS:

UV = ULTRA VIOLET
 DMF = DISSOLVED AIR FLOTATION
 FES = FLOW EQUALIZATION BASIN
 CMAF = COMPLETE MIXED ACTIVATED SLUDGE
 RAS = RETURN ACTIVATED SLUDGE
 BAS = MIXED ACTIVATED SLUDGE
 EX = EXISTING

LEGEND

PROPERTY LINE
 ADJOINING PROPERTY LINE
 MAJOR CONTOUR
 MINOR CONTOUR
 EDGE OF PAVEMENT
 EDGE OF GRAVEL
 CURB
 EDGE OF DRIB ROAD
 NEW CONSTRUCTION
 PAVEMENT HATCH
 CONCRETE HATCH
 GRAVEL HATCH
 BUILDING OUTLINE
 RETAINING WALL
 TRACE LINE
 RAILROAD TRACK
 TREE LINE
 UNDERGROUND WATER PIPE
 UNDERGROUND GAS PIPE
 UNDERGROUND ELECTRIC



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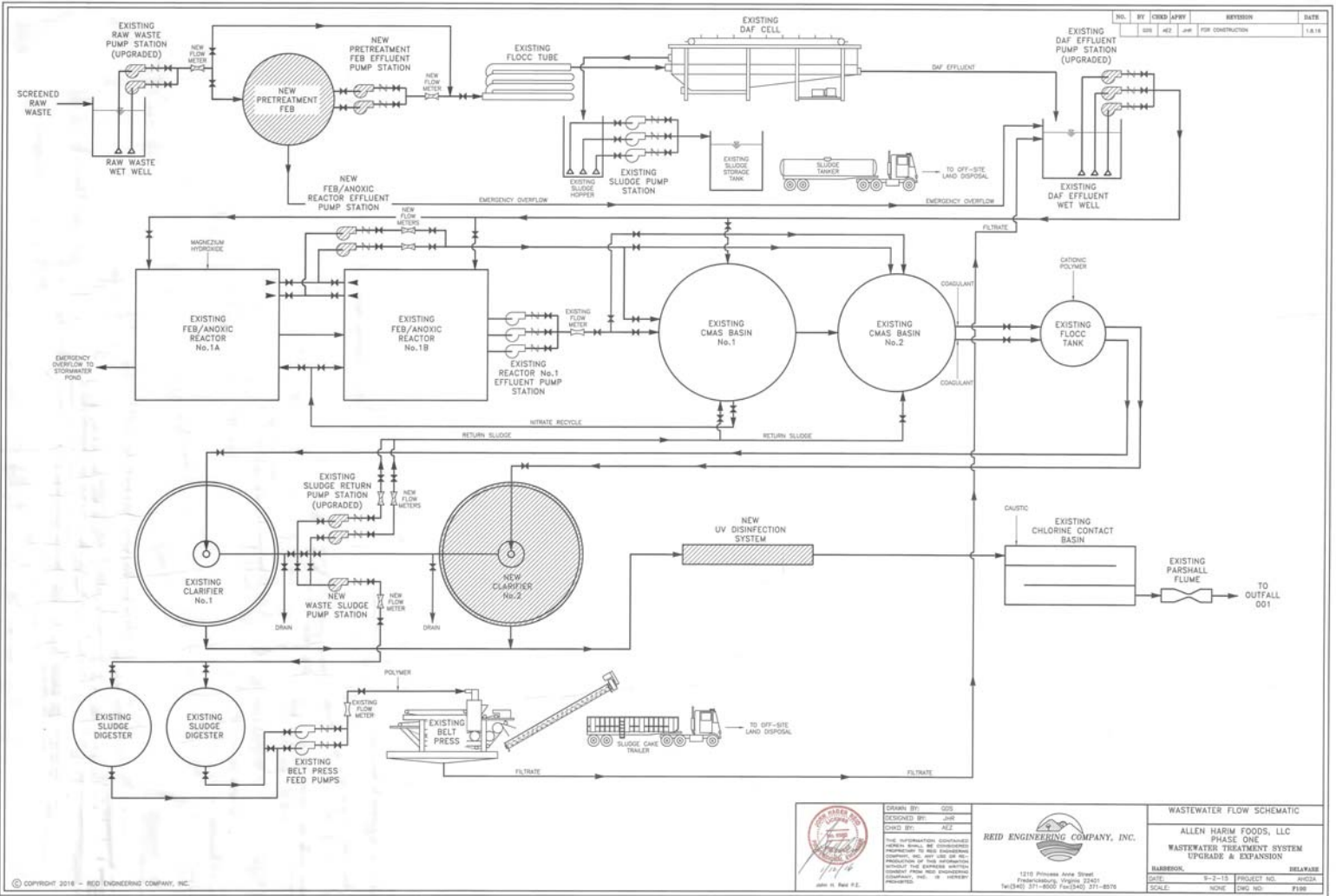


DRAWN BY: GDS
 DESIGNED BY: JPH
 CHECKED BY: ACE

REID ENGINEERING COMPANY, INC.
 1210 Princess Anne Street
 Fredericksburg, Virginia 22401
 Tel: (804) 371-8500 Fax: (804) 371-8576

UNDERGROUND PIPING PLAN
 (NORTHEAST AREA)
 ALLEN HARM, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBERSBURG, DELAWARE
 DATE: 8-3-15 PROJECT NO.: W0524
 SCALE: 1"=20' DWG. NO.: C088



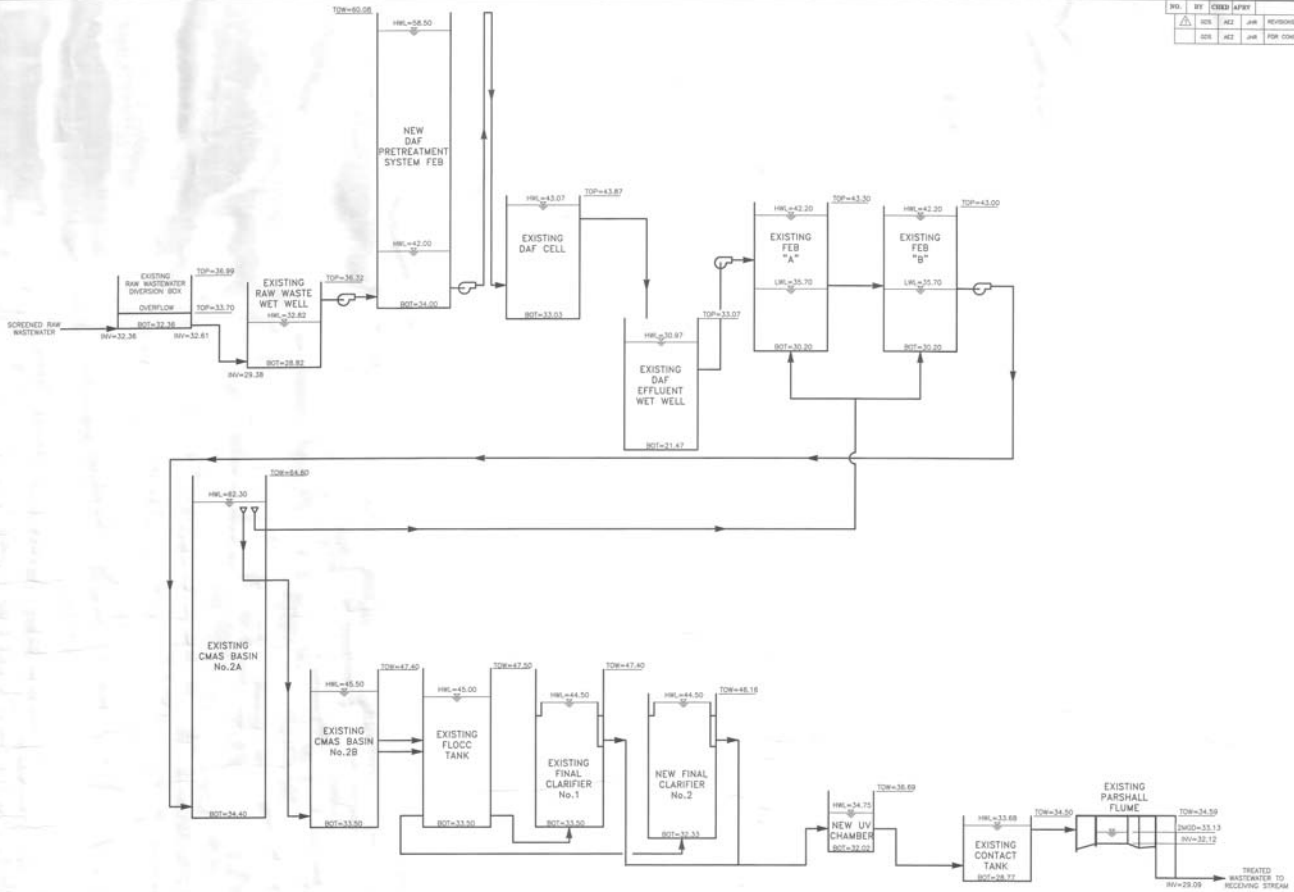
NO.	BY	CHKD	APPR	REVISION	DATE
001	HEJ	JSP		FOR CONSTRUCTION	1.8.14


 DRAWN BY: GCS
 DESIGNED BY: JMS
 CHECKED BY: HEJ
 JOHN H. REID P.E.


REID ENGINEERING COMPANY, INC.
 1210 Phoenix Area Street
 Philadelphia, Virginia 22401
 Tel: (840) 371-8500 Fax: (840) 371-8576

WASTEWATER FLOW SCHEMATIC
 ALLEN HARM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION
 BARBROOK DELAWARE
 DATE: 9-2-13 PROJECT NO.: 110524
 SCALE: NONE DWG. NO.: F198

NO.	BY	CHKD	APPV	REVISION	DATE
1	GIS	AKC	JWH	REVISION FOR STATE REVIEW	3.23.15
2	GIS	AKC	JWH	FOR CONSTRUCTION	1.8.18



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DESIGNED BY: GIS
 CHECKED BY: AKC
 DRAWN BY: JWH

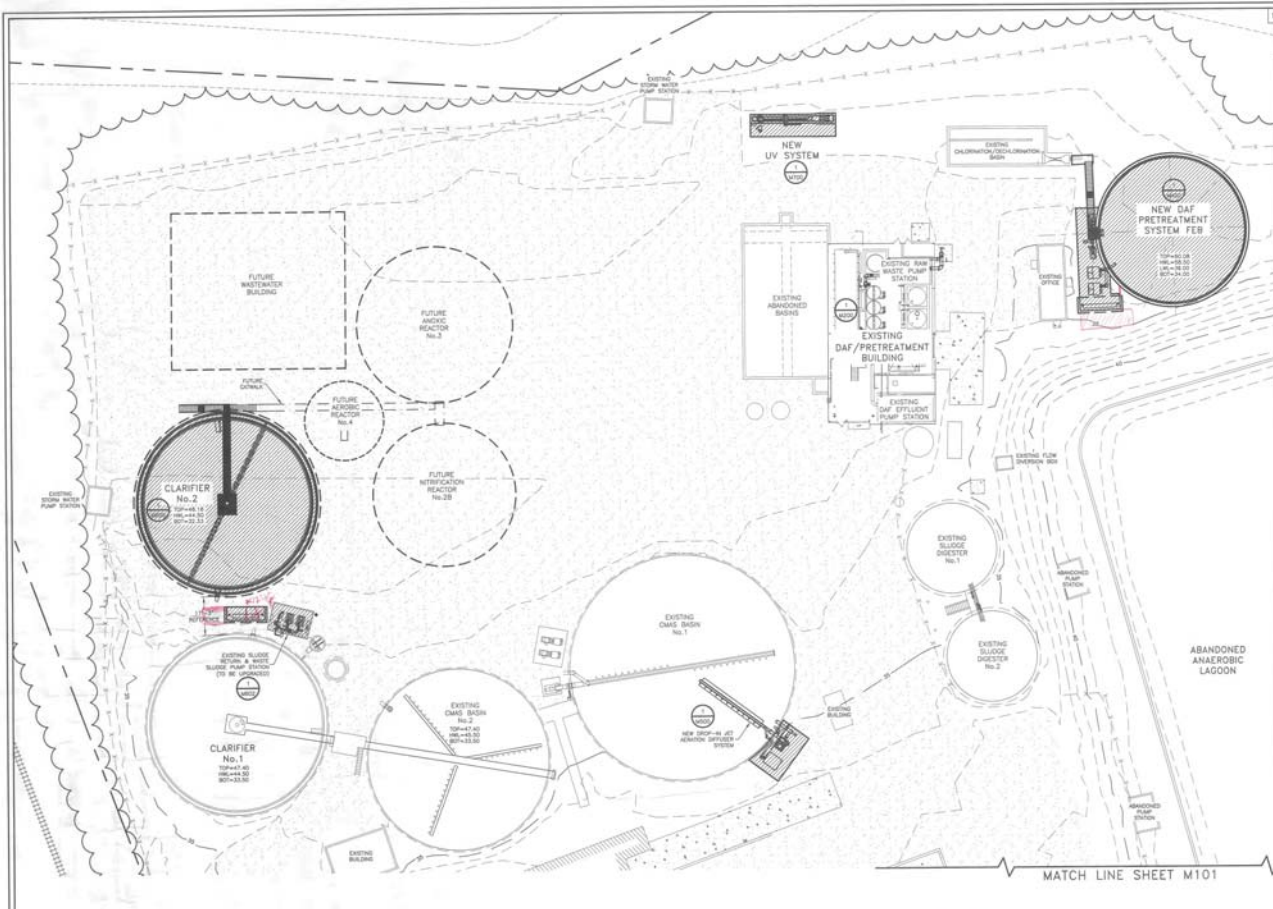
The information contained herein shall be considered preliminary to the satisfaction of the contract without that specific notice unless otherwise indicated.

John H. Neil P.E.

REID ENGINEERING COMPANY, INC.
 1210 Pinhook Lane Street
 Fredericktown, Virginia 22630
 Tel: (540) 371-8500 Fax: (540) 371-8518

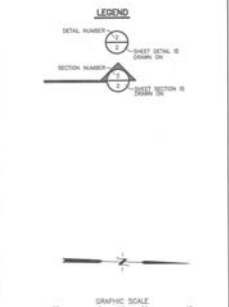
HYDRAULIC PROFILE	
ALLEN HARM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
SUBMISSION: 8-2-15	PROJECT NO.: 81023
DATE: 3-23-15	SCALE: VERT: 1/4"=1'-0"
	DRG. NO.: P898

NO.	BY	CHKD	APPROV	REVISION	DATE
001	AE2	JWR		ISSUING PER STATE REVIEW	8.23.15
002	AE2	JWR		FOR CONSTRUCTION	1.8.18



LEGEND

PROPERTY LINE	---
ADJOINING PROPERTY LINE	- - - - -
MAJOR CONTOUR	.....
MINOR CONTOUR	.....
EDGE OF PAVEMENT	.....
EDGE OF GRAVEL	.....
CURB	.....
EDGE OF DIRT ROAD	.....
NEW CONSTRUCTION	.....
PAVEMENT HATCH	.....
CONCRETE HATCH	.....
GRAVEL HATCH	.....
BUILDING OUTLINE	.....
RETAINING WALL	.....
FENCE LINE	.....
RAILROAD TRACK	.....
TREE LINE	.....
UNDERGROUND WATER PIPE	.....
UNDERGROUND GAS PIPE	.....
UNDERGROUND ELECTRIC	.....



REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, LAYOUTS, AND BEDDING REQUIREMENTS.

JAMES H. REID, P.E.

OWNER BY: GOS
DESIGNED BY: JWR
CHECKED BY: AE2

REID ENGINEERING COMPANY, INC.
1210 Phoenix Area Street
Buckeye, Arizona 85001
Tel: (480) 371-6000 Fax: (480) 371-8878

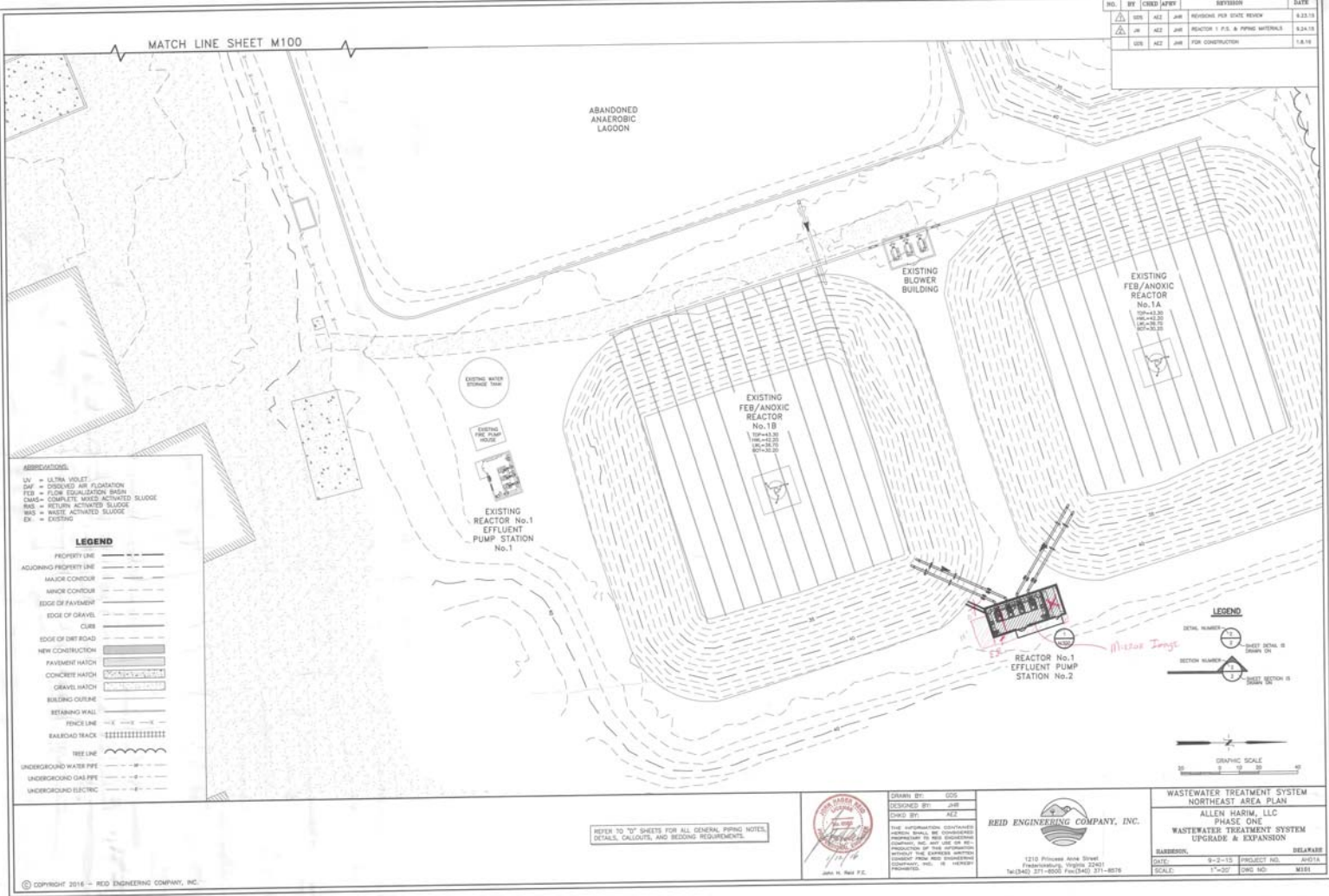
**WASTEWATER TREATMENT SYSTEM
SOUTHWEST AREA PLAN**
ALLEN HARIM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

NUMBER: 8-3-15 PROJECT NO.: 47024
SCALE: 1"=20' DWG NO.: M100

NO.	BY	CHKD	APPR	REVISION	DATE
1	AEJ	AEJ	JAH	REVISION PER STATE REVIEW	8.22.13
2	JAH	AEJ	JAH	REACTOR 1 P.S. & PIPING MATERIALS	8.24.13
3	AEJ	AEJ	JAH	FOR CONSTRUCTION	1.8.14

MATCH LINE SHEET M100

ABANDONED ANAEROBIC LAGOON

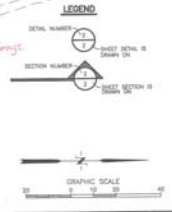


ABBREVIATIONS

UV = ULTRA VIOLET
 DAF = DROVED AIR FLOTATION
 FEB = FLOW EQUALIZATION BASIN
 CBAK = COMPLETELY MIXED ACTIVATED SLUDGE
 BAS = RETURN ACTIVATED SLUDGE
 WAS = WASTE ACTIVATED SLUDGE
 EX = EXISTING

LEGEND

PROPERTY LINE
 ADJOINING PROPERTY LINE
 MAJOR CONTOUR
 MINOR CONTOUR
 EDGE OF PAVEMENT
 EDGE OF GRAVEL
 CURB
 EDGE OF DIRT ROAD
 NEW CONSTRUCTION
 PAVEMENT HATCH
 CONCRETE HATCH
 GRAVEL HATCH
 BUILDING CONTOUR
 RETAINING WALL
 FENCE LINE
 RAILROAD TRACK
 TIE LINE
 UNDERGROUND WATER PIPE
 UNDERGROUND GAS PIPE
 UNDERGROUND ELECTRIC



REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, LAYOUTS, AND BEDDING REQUIREMENTS.

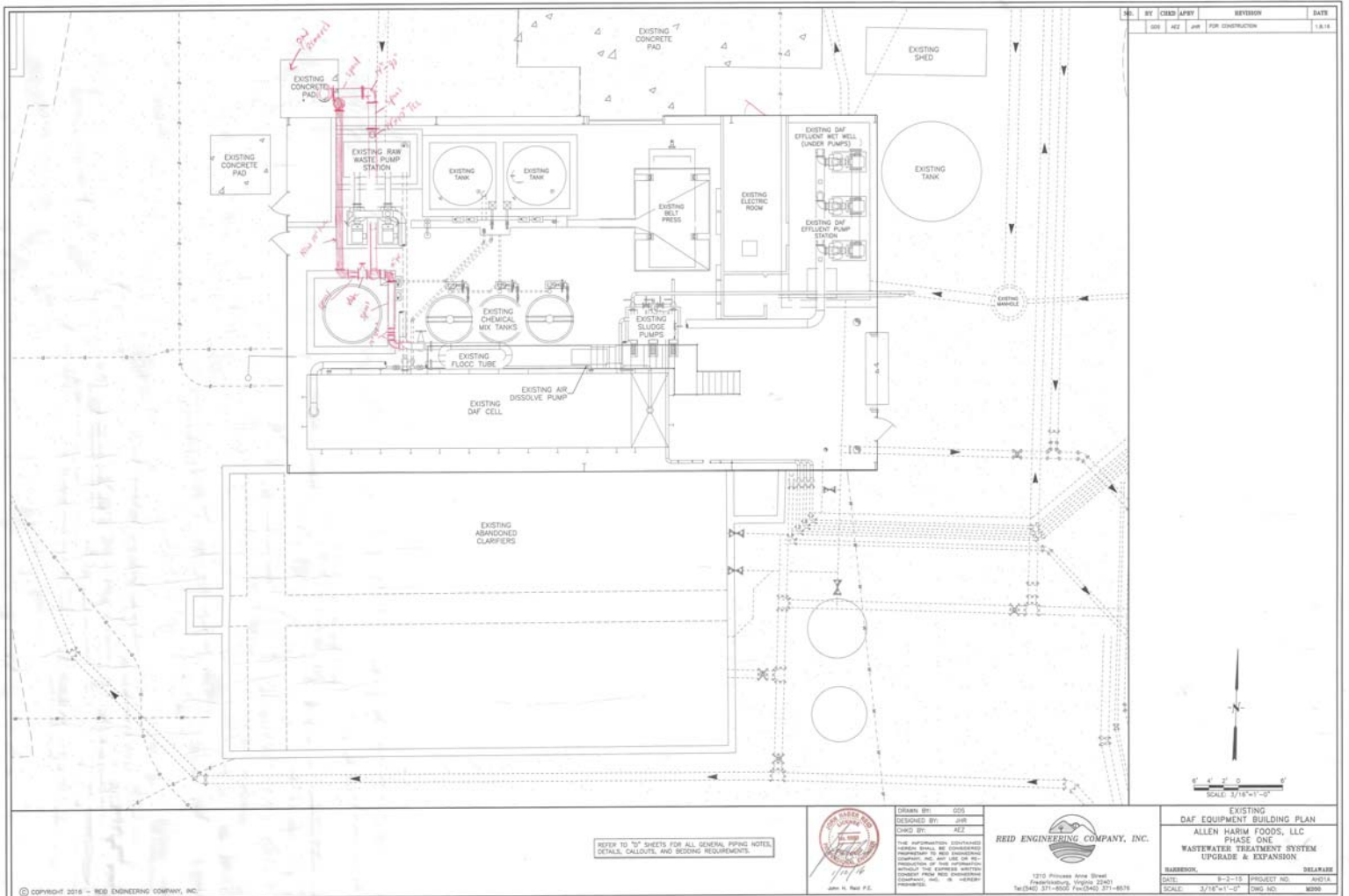


DRAWN BY: GOS
 DESIGNED BY: JAH
 CHECKED BY: AEJ

REID ENGINEERING COMPANY, INC.
 1210 Pittsburg Ave. Street
 Independence, Missouri 64050
 Tel: (816) 331-6000 Fax: (816) 331-6078

WASTEWATER TREATMENT SYSTEM
 NORTHEAST AREA PLAN
 ALLEN HARM, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

DATE: 9-2-13 PROJECT NO.: 2012.1
 SCALE: 1"=20' DRG. NO.: M281



NO.	BY	CHKD	APPR	REVISION	DATE
001	AEZ	JPH		FOR CONSTRUCTION	1.8.18

REFER TO "S" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS, AND BEARING REQUIREMENTS.

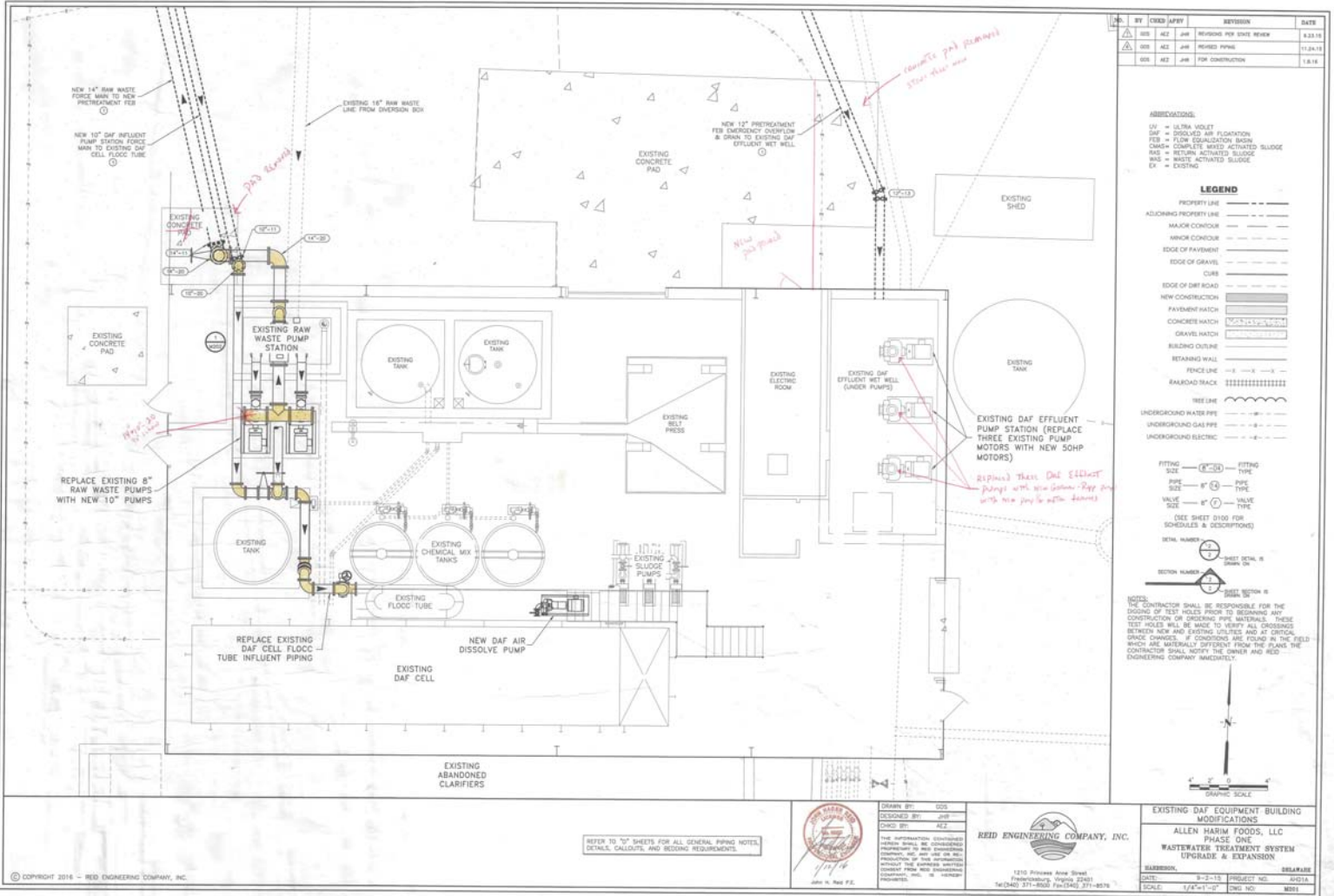


DRAWN BY: GDS
 DESIGNED BY: JPH
 CHKD BY: AEZ
 DATE: 1/18/18

REID ENGINEERING COMPANY, INC.
 1210 Princess Anne Street
 Fredericksburg, Virginia 22401
 Tel: (540) 871-6505 Fax: (540) 871-6576

EXISTING
 DAF EQUIPMENT BUILDING PLAN
 ALLEN HARM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBER: DELAWARE
 DATE: 8-2-18 PROJECT NO.: A0714
 SCALE: 3/16"=1'-0" DWG. NO.: W006



BY	CHKD	APPV	REVISION	DATE
MS	AEZ	JAM	ISSUED FOR STATE REVIEW	8.23.15
MS	AEZ	JAM	ISSUED FOR PERMITS	11.24.15
MS	AEZ	JAM	FOR CONSTRUCTION	1.8.16

ABBREVIATIONS:
 UV = ULTRA VIOLET
 DAF = DISSOLVE AIR FLOCCULATION
 FEB = FLOW EQUALIZATION BASIN
 CBM = COMPLETE MIXED ACTIVATED SLUDGE
 RAS = RETURN ACTIVATED SLUDGE
 WAS = WASTE ACTIVATED SLUDGE
 EX = EXISTING

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CURB
- EDGE OF DRIVE/PAV
- NEW CONSTRUCTION
- PAVEMENT HATCH
- CONCRETE HATCH
- GRAVEL HATCH
- BUILDING OUTLINE
- RETAINING WALL
- FENCE LINE
- RAILROAD TRACK
- TREE LINE
- UNDERGROUND WATER PIPE
- UNDERGROUND GAS PIPE
- UNDERGROUND ELECTRIC

FITTING
 SIZE: 8" (8" x 8")
 TYPE: PIPE
 SIZE: 8" (8" x 8")
 TYPE: VALVE
 SIZE: 8" (8" x 8")
 TYPE: VALVE
 (SEE SHEET D100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER
 SECTION NUMBER

NOTES:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIZING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OF SODDING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL SPACING CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND REED ENGINEERING COMPANY IMMEDIATELY.

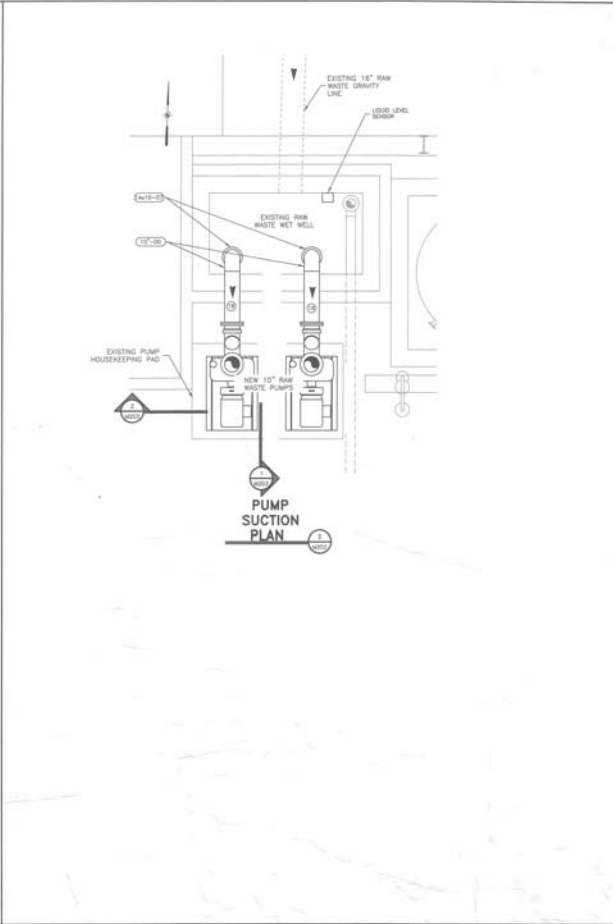
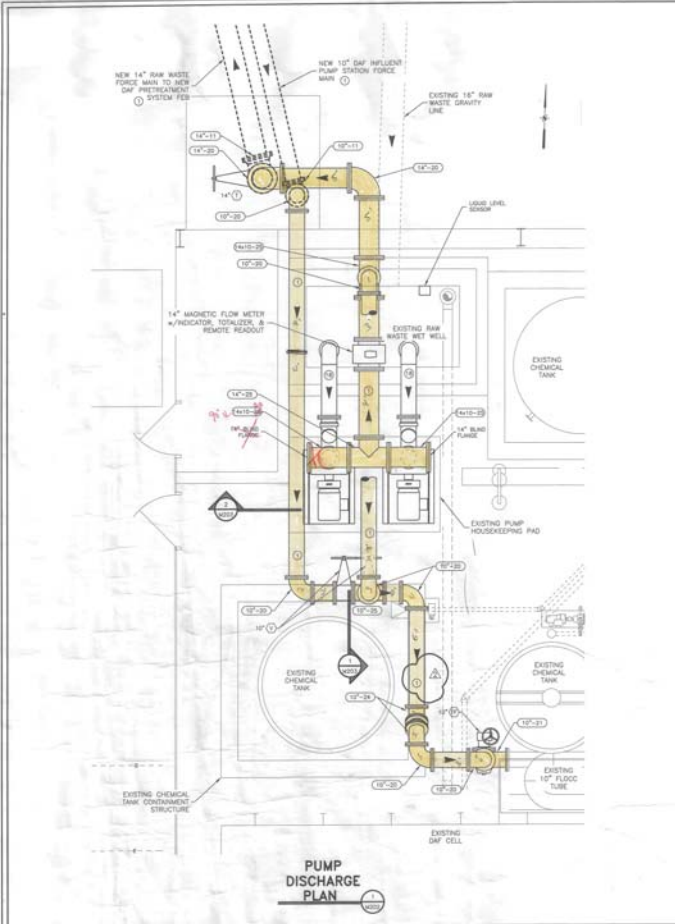
EXISTING DAF EQUIPMENT BUILDING MODIFICATIONS
ALLEN HARIM FOODS, LLC
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

REVISIONS:
 DATE: 8-2-15 PROJECT NO: 60524
 SCALE: 1/8"=1'-0" DWG NO: M881

REFER TO "P" SHEETS FOR ALL GENERAL BIDDING NOTES, DETAILS, LAYOUTS, AND BIDDING REQUIREMENTS.



REED ENGINEERING COMPANY, INC.
 1210 Pritchard Ave Street
 Independence, North Carolina 28751
 704-240-3711 FAX: 704-240-3711-8576



NO.	BY	CHECK	APPR.	REVISION	DATE
1	GD	AC	JHF	REVISION PER STATE REVIEW	8.23.19
2	JHF	AC	JHF	REACTOR I P.E. & PIPING MATERIALS	8.24.19
3	GD	AC	JHF	P&ID CONSTRUCTION	1.8.19

ABBREVIATIONS:

- UV = ULTRA VIOLET
- DAF = DISSOLVED AIR FLOTATION
- FES = FLOW EQUALIZATION BASIN
- CAHA = COMPLETE MIXED ACTIVATED SLUDGE
- RAS = RETURN ACTIVATED SLUDGE
- RES = WASTE ACTIVATED SLUDGE
- EX = EXISTING

FITTING SIZE — (F)-CODE — FITTING TYPE

PIPE SIZE — (P)-CODE — PIPE TYPE

VALVE SIZE — (V)-CODE — VALVE TYPE

(SEE SHEET D100 FOR SCHEDULES & DIMENSIONS)

SECTION NUMBER — (S)-CODE — SHEET DETAIL OR SHEET OR

SECTION NUMBER — (S)-CODE — SHEET DETAIL OR SHEET OR

NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OR ORDERING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL SPACES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS THE CONTRACTOR SHALL NOTIFY THE OWNER AND REID ENGINEERING COMPANY IMMEDIATELY.

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALCULATIONS, AND BEDDING REQUIREMENTS.

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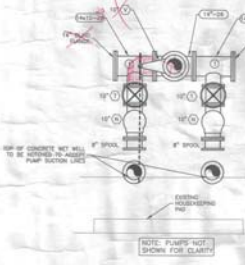
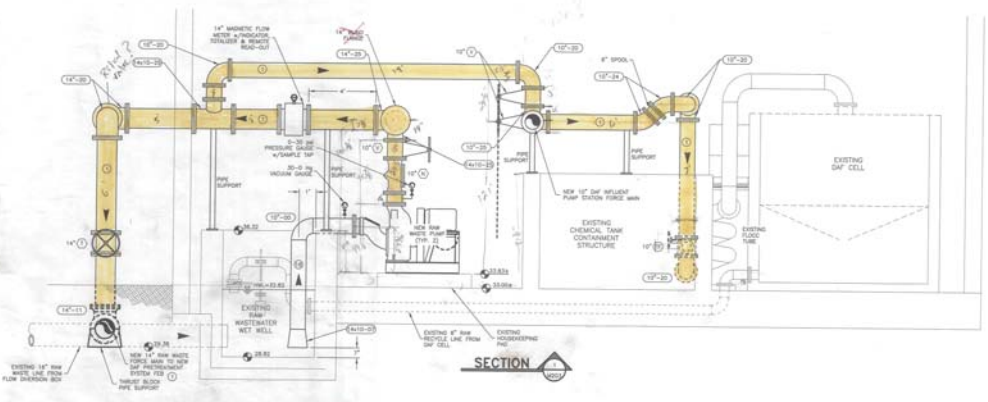
REID ENGINEERING COMPANY, INC.
 1210 Princess Anne Street
 Farmington, Oregon 97031
 Tel: (503) 371-8500 Fax: (503) 371-8876

DESIGNED BY: GD
 CHECKED BY: JHF
 DRAWN BY: JHF

EXISTING RAW WASTE PUMP STATION MODIFICATIONS PLAN
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION

DATE: 8-23-19 PROJECT NO.: 20171.1
 SCALE: 3/8"=1'-0" DWG NO.: 201808

NO.	BY	CHKD	APPY	REVISION	DATE
1	GC	GC	JWR	PROPOSED FOR STATE REVIEW	8.23.18
2	JR	GC	JWR	REACTOR 1 P.E. & PIPE MATERIALS	8.24.18
3	GC	GC	JWR	FOR CONSTRUCTION	1.8.19



LEGEND

FITTING SIZE: --- FITTING TYPE

PIPE SIZE: --- PIPE TYPE

VALVE SIZE: --- VALVE TYPE

(SEE SHEET 0100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER: --- SHEET DETAIL IN DRAWING

SECTION NUMBER: --- SHEET SECTION IN DRAWING

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS, AND BIDDING REQUIREMENTS.

DESIGNED BY: GC

CHECKED BY: JWR

DRAWN BY: GC

REID ENGINEERING COMPANY, INC.

1720 Wilshire Area Street
 Birmingham, AL 35205
 Telephone: 205-922-7200 Fax: 205-922-7205

EXISTING RAW WASTE PUMP STATION SECTIONS & DETAILS

ALLEN HARM FOODS, LLC

PHASE ONE

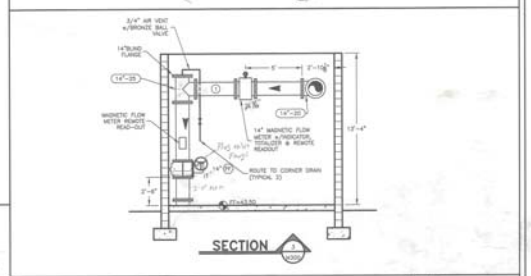
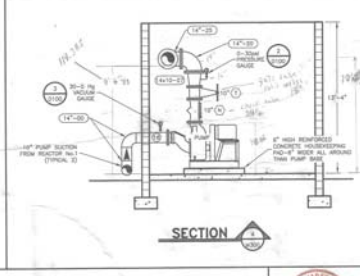
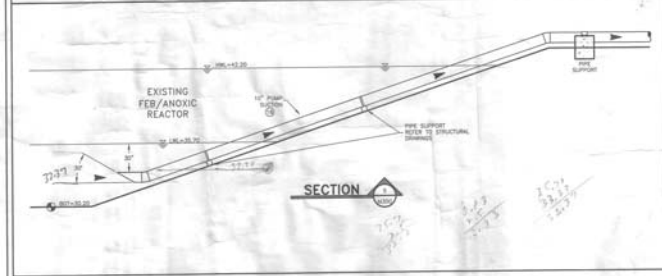
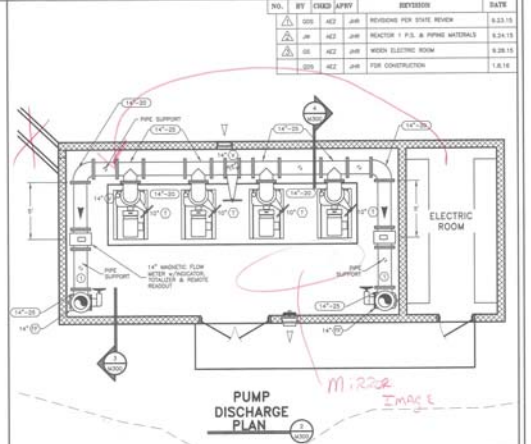
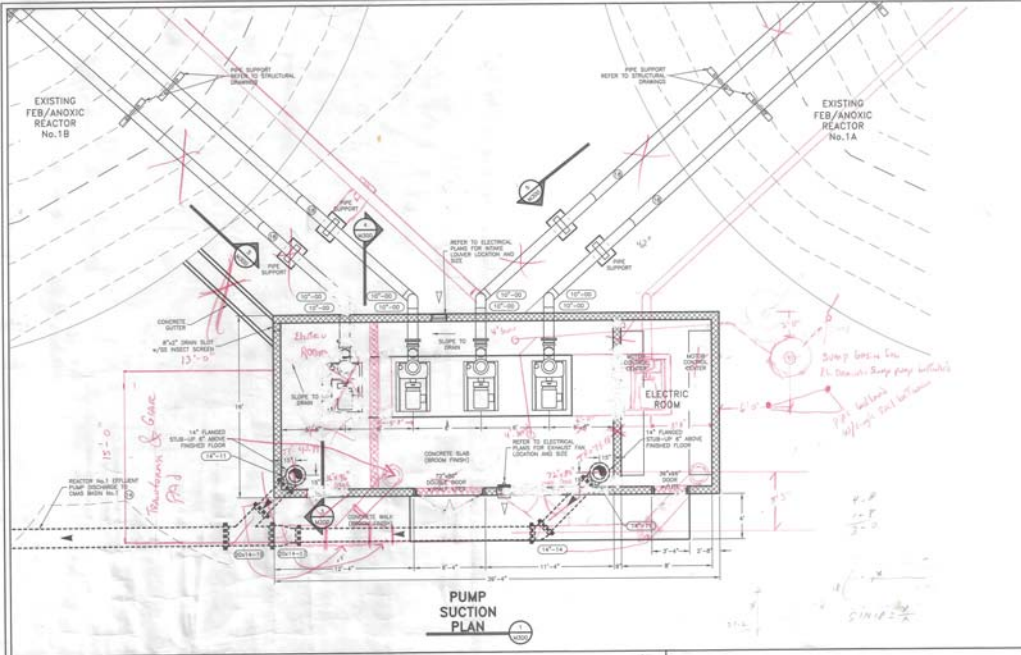
WASTEWATER TREATMENT SYSTEM

UPGRADE & EXPANSION

DATE: 8-2-18 PROJECT NO.: AHD24

SCALE: 3/8"=1'-0" DWG. NO.: M039

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LEGEND

FITTING SIZE	FITTING TYPE
8" (20)	PIPE
8"	PIPE TYPE
8"	VALVE
8"	VALVE TYPE

(SEE SHEET 0108 FOR SCHEDULES & DISCREPANCIES)

DETAIL NUMBER: 1/2

SHEET DETAIL NO: 1/2

SECTION NUMBER: 1/2

SHEET SECTION NO: 1/2

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALCULATIONS AND BEYOND REQUIREMENTS.

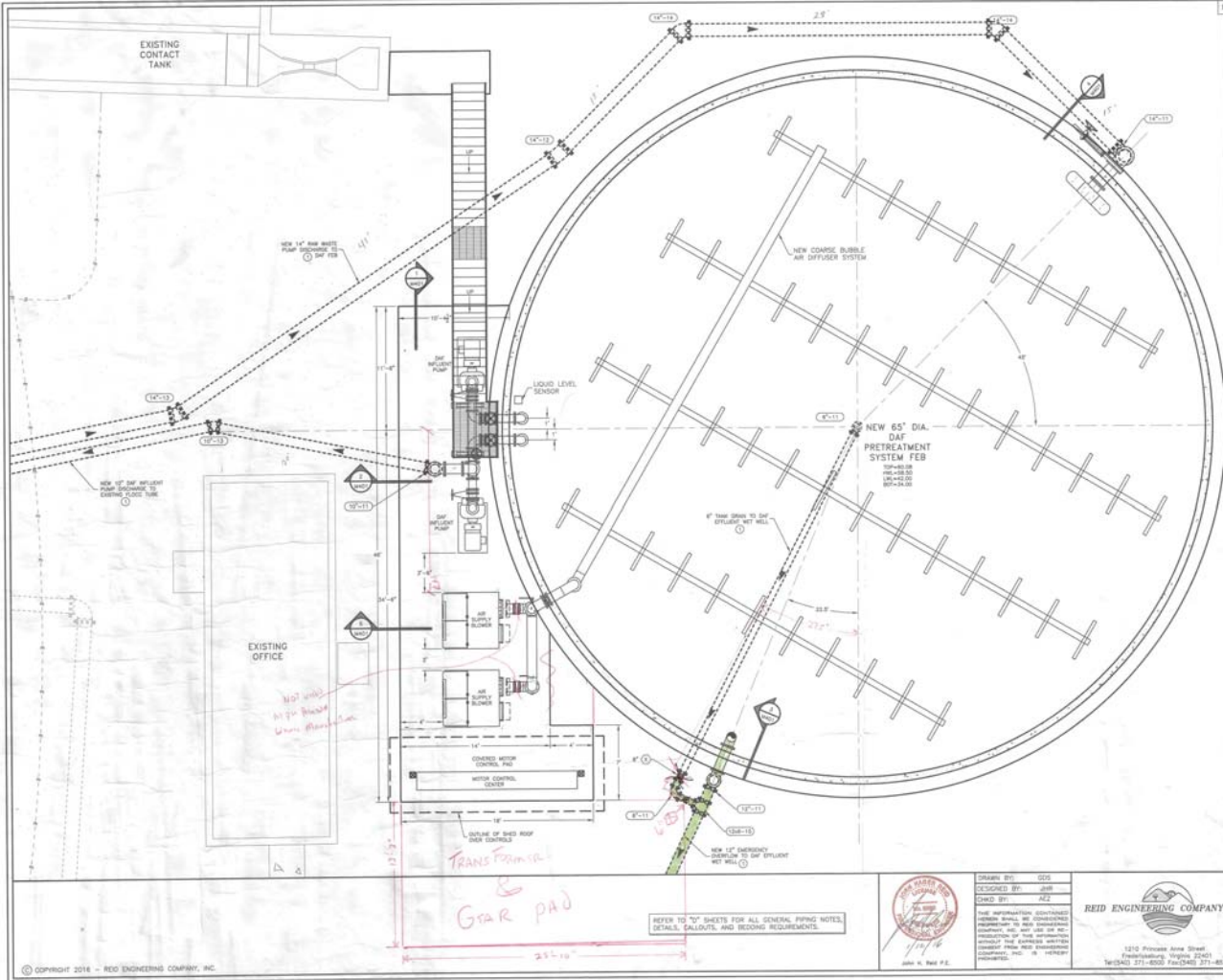
DESIGNED BY: JMS
 CHECKED BY: JMS



REID ENGINEERING COMPANY, INC.
 1210 Pinhook Area Street
 Pinhook, Missouri 65051
 Tel: (640) 571-8933 Fax: (640) 571-8936

REACTOR No. 1 EFFLUENT PUMP STATION
 PLAN & SECTIONS
 ALLEN HARM, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

DATE: 8-2-15 PROJECT NO: A023
 SCALE: 1/4" = 1'-0" DWG NO: M009



NO.	BY	CHKD	APPV	REVISION	DATE
1	ASJ	AJZ	JAF	REVISION PER STATE REVIEW	8.23.15
2	ASJ	AJZ	JAF	SHOW CONCRETE TANK, REUSE PIPING	11.24.15
3	ASJ	AJZ	JAF	FOR CONSTRUCTION	1.8.16

LEGEND

FITTING SIZE: $\text{---} \text{---} \text{---}$ FITTING TYPE

PIPE SIZE: $\text{---} \text{---}$ PIPE TYPE

VALVE SIZE: $\text{---} \text{---}$ VALVE TYPE

(SEE SHEET 0100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER: --- SHEET DETAIL & DRAWING NO.

SECTION NUMBER: --- SHEET SECTION & DRAWING NO.

GRAPHIC SCALE: 1" = 4'

DAF PRETREATMENT SYSTEM FEB PLAN

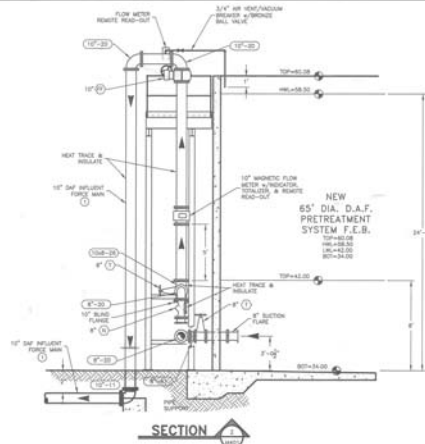
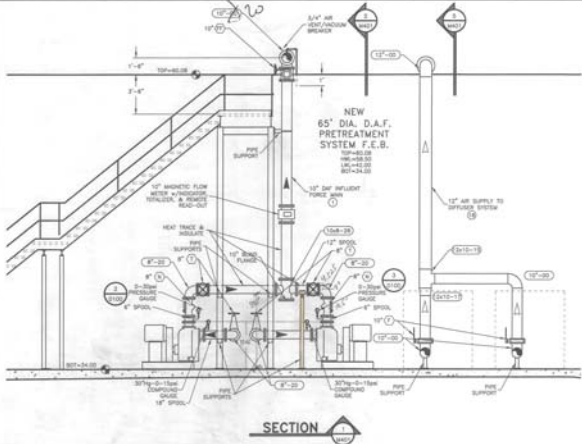
ALLEN HARM FOODS, LLC
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBER: 8-2-15 PROJECT NO.: 14023
 DATE: 1/27/16 DWG. NO.: 14023

DESIGNED BY: ASJ
 CHECKED BY: AJZ
 DATE: 1/27/16
 JOHN A. PAUL, P.E.

REID ENGINEERING COMPANY, INC.
 1210 Process Area Street
 Fredericksburg, Virginia 22403
 Tel: (540) 371-4000 Fax: (540) 371-4076

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS AND BIDDING REQUIREMENTS.



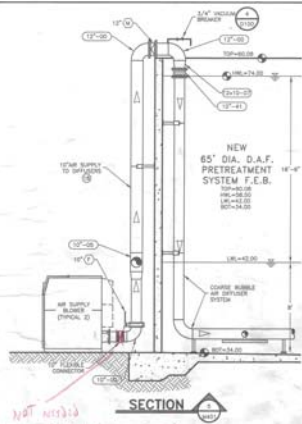
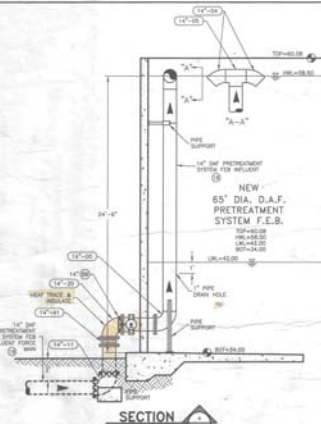
NO.	BY	CHECK	APPROV.	REVISION	DATE
1	MS	MS	JWH	REVISION FOR STATE REVIEW	9.23.18
2	MS	MS	JWH	SHOW CONCRETE TANK, REVEAL PIPING	11.24.18
3	MS	MS	JWH	FOR CONSTRUCTION	1.8.19



NOTE:
PIPE SUPPORTS ATTACHED TO
TANK SIDEWALLS ARE TO BE
COORDINATED WITH TANK MFR

LEGEND

FITTING SIZE	8"-24"	FITTING TYPE
PIPE SIZE	8"	PIPE TYPE
VALVE SIZE	8"	VALVE TYPE
SEE SHEET 0100 FOR SCHEDULES & DESCRIPTIONS		
DETAIL NUMBER	1	SHEET DETAIL #
SECTION NUMBER	A-A	SHEET SECTION #



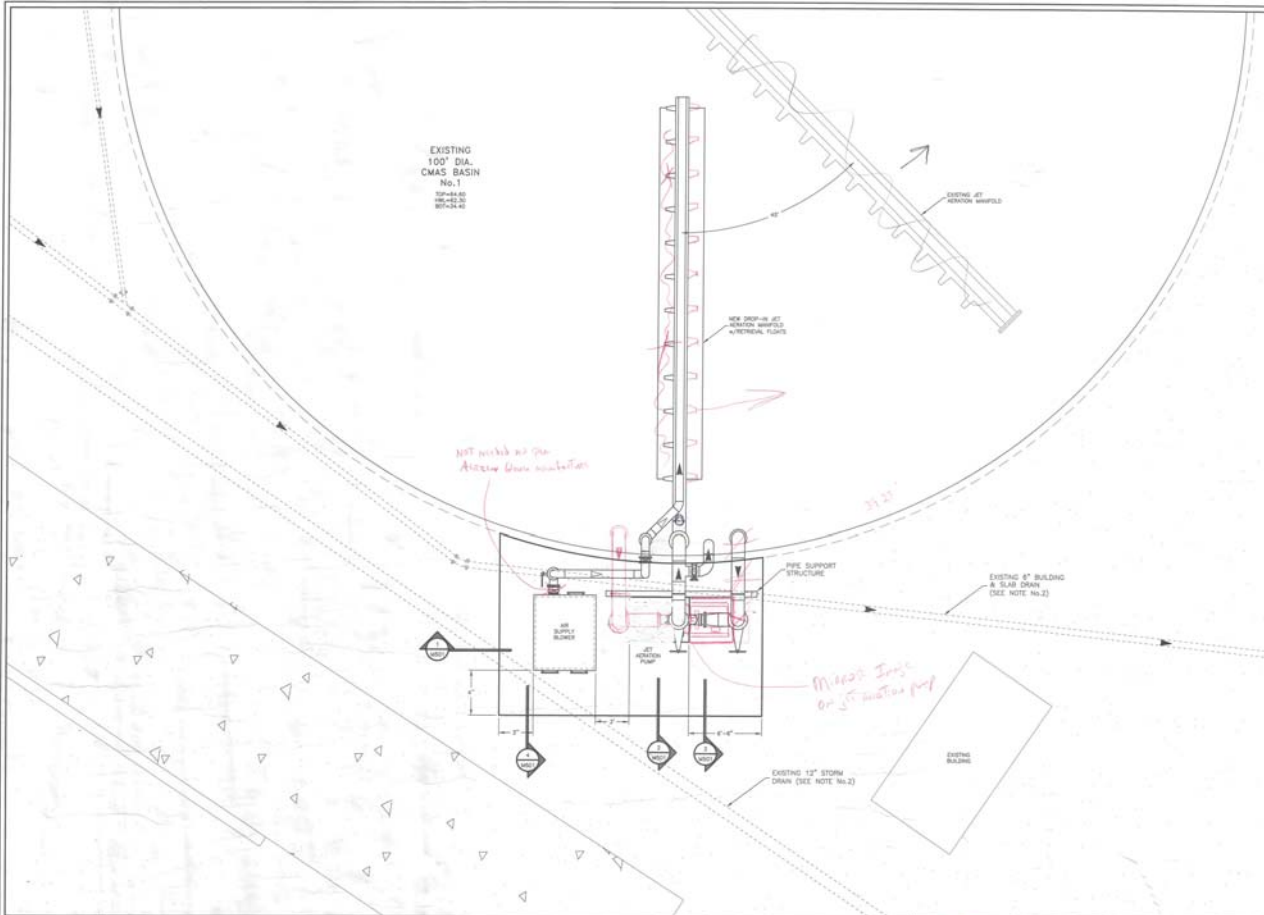
REFER TO "C" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALCULATIONS, AND BIDDING REQUIREMENTS.



DRAWN BY: MS
DESIGNED BY: JWH
CHECKED BY: JWH
DATE: 1/14/19

REID ENGINEERING COMPANY, INC.
1302 Pioneer Area Blvd.
Plymouth, Michigan 48170
Tel: (313) 371-8000 Fax: (313) 371-8074

DAF PRETREATMENT SYSTEM FCB
SECTIONS & DETAILS
ALLEN HARM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION
BARBORON DELAWARE
DATE: 8-2-18 PROJECT NO: MDC4
SCALE: 1/4"=1'-0" DWG NO: MDC4



NO.	BY	CHKD	APPV	REVISION	DATE
1	AEZ	AEZ	JAM	REVISION FOR STATE REVIEW	8.23.13
2	AEZ	AEZ	JAM	ADD PIPE SUPPORT	11.24.13
3	AEZ	AEZ	JAM	FOR CONSTRUCTION	1.8.14

NOTES:
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OR ORDERING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND REID ENGINEERING COMPANY IMMEDIATELY. CONTRACTOR SHALL VERIFY EXISTENCE, DEPTH, SIZE, AND LOCATION PRIOR TO CONSTRUCTING SLAB. FINDINGS SHALL BE REPORTED TO ENGINEER.

LEGEND

FITTING SIZE: (C-30) — FITTING TYPE
 PIPE SIZE: (C) — PIPE TYPE
 VALVE SIZE: (V) — VALVE TYPE

SEE SHEET 2100 FOR SCHEDULES & DIMENSIONS

SEAL NUMBER: (1) — SEAL TYPE
 SECTION NUMBER: (2) — SECTION TYPE

GRAPHIC SCALE: 0' 2' 4'

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS, AND BEARING REQUIREMENTS.

DESIGNED BY: JAM
 CHECKED BY: AEZ

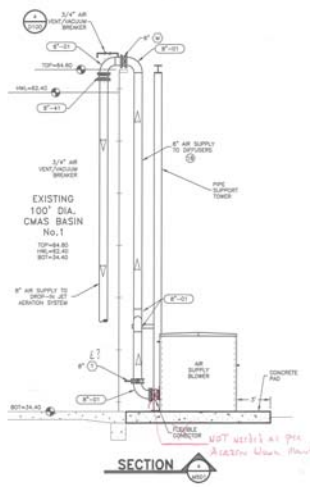
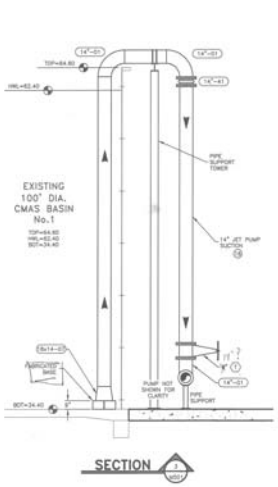
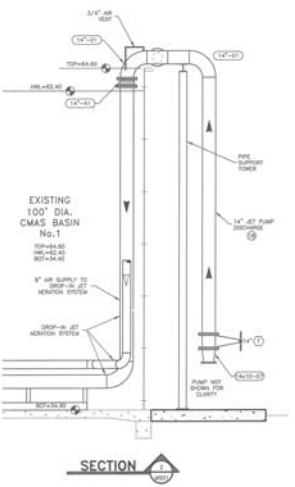
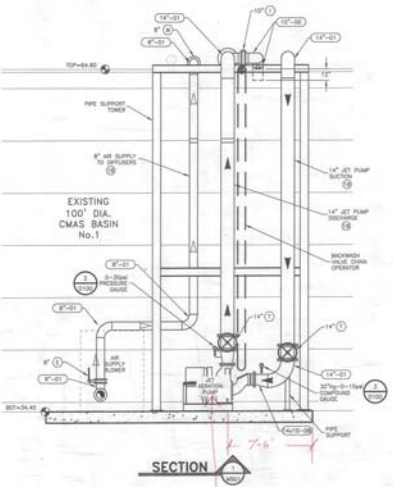
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REID ENGINEERING COMPANY, INC.
 1215 Parkway Avenue Street
 Fredericktown, Virginia 22631
 Tel: (540) 371-8000 Fax: (540) 371-8078

EXISTING CMAA BASIN No. 1
 PLAN
 ALLEN HARRIS FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBROCK, DATE: 8-2-13 PROJECT NO: AHC03A
 SCALE: 1/4"=1'-0" DRC NO: M306

NO.	BY	CHKD	APPR	REVISION	DATE
1	JWB	JWB	JWB	ISSUE FOR PERMITS REVIEW	8.23.15
2	JWB	JWB	JWB	ADD PIPE SUPPORT	11.24.15
3	JWB	JWB	JWB	FOR CONSTRUCTION	1.8.16



*Jet Aeration Pump
is missing image
pump is 118" tall with section on the left*

NOTE:
PIPE SUPPORTS ATTACHED TO
TANK SIDEWALLS ARE TO BE
COORDINATED WITH TANK MFR

LEGEND

FITTING SIZE	⊕-⊕	FITTING TYPE
PIPE SIZE	⊕	PIPE TYPE
VALVE SIZE	⊕	VALVE TYPE

(SEE SHEET S100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER: ⊕

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

SECTION NUMBER: 1

SHEET SECTION: 1



REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS, AND BEDDING REQUIREMENTS.

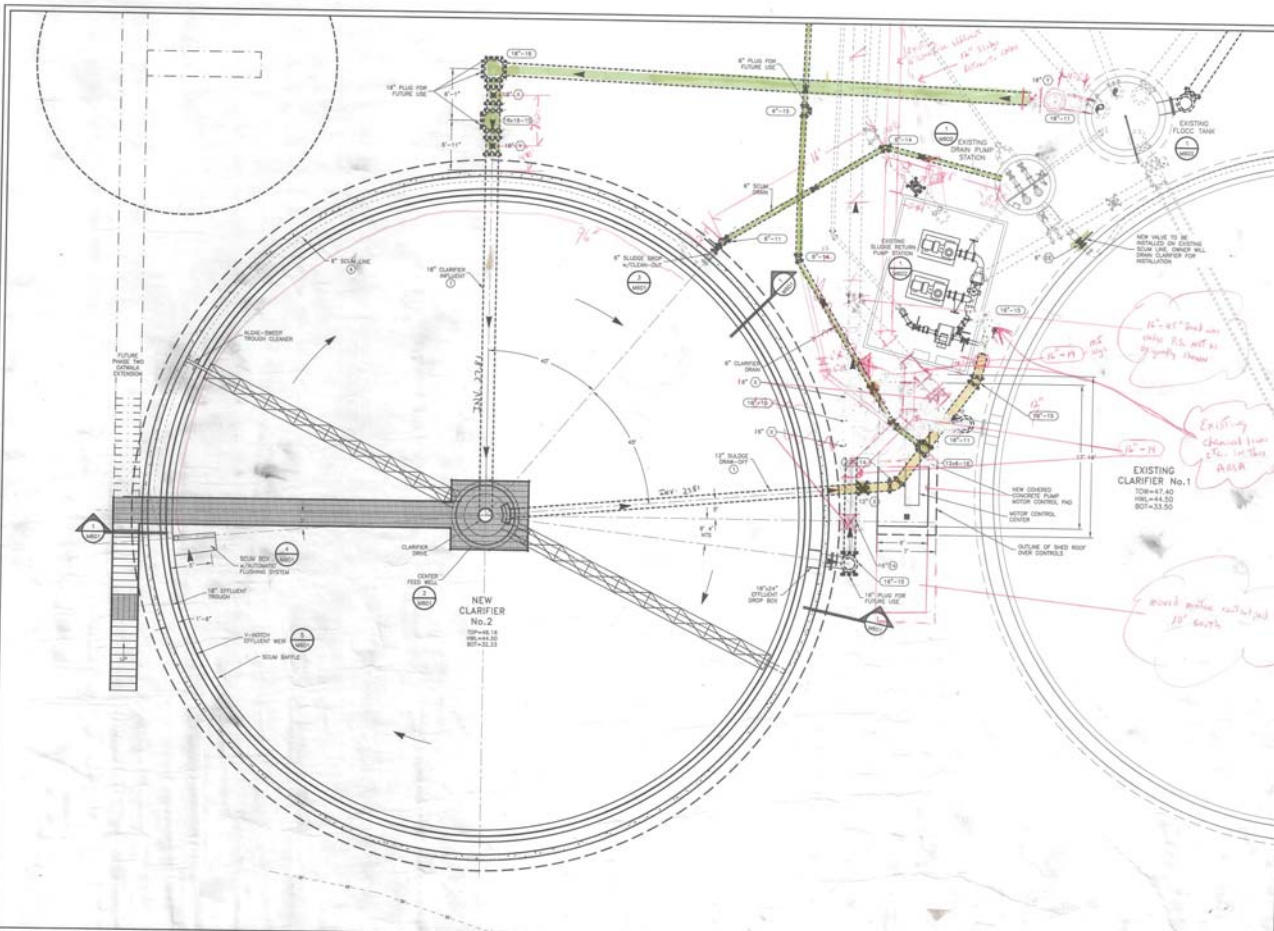


DRAWN BY: GOS
DESIGNED BY: JWB
CHKD BY: AJE

REID ENGINEERING COMPANY, INC.
1210 Princess Anne Street
Fayetteville, Virginia 22801
Tel: (540) 371-8500 Fax: (540) 371-8578

EXISTING CMAS BASIN No. 1
SECTIONS & DETAILS
ALLEN HARM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

SUBBERON: 9-20-15 PROJECT NO.: 1902A
DATE: 1/8/16 SCALE: 1/4"=1'-0" DWG. NO.: M001



NO.	BY	CHKD	APPROV	REVISION	DATE
1	COG	ACE	JAW	ISSUE FOR BIDDING	8.23.15
2	COG	ACE	JAW	ADD VALVE, REMOVE VALVE	8.28.15
3	COG	ACE	JAW	ADD VALVE, REMOVE SIGNAL, SHOW CONCRETE POUR	11.24.15
4	COG	ACE	JAW	FOR CONSTRUCTION	1.8.16

- NOTES:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF TEST HOLES PRIOR TO SHOWING ANY CONSTRUCTION OR ORDERING PIPE MATERIALS. THESE TEST HOLES WILL BE MADE TO VERIFY ALL COORDINATES BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS THE CONTRACTOR SHALL NOTIFY THE OWNER AND RED ENGINEERING COMPANY IMMEDIATELY.
 - ALL EXISTING PIPES SHOWN ARE BASED ON EXISTING INFORMATION FROM PREVIOUS DESIGNS AND MAY NOT REFLECT AS-BUILT CONDITIONS.
 - CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING PIPING WITH THE OWNER. MODIFICATION OF EXISTING PIPING SHALL BE PERFORMED DURING LOW FLOW TIMES OVER WEEKENDS.

LEGEND

FITTING SIZE (C-12) EXISTING TYPE
 PIPE SIZE 8" PIPE TYPE
 VALVE SIZE 6" VALVE TYPE
 (SEE SHEET 0100 FOR SCHEDULES & DESCRIPTIONS)

SHEET NUMBER 10
 SHEET TOTAL 10
 SECTION NUMBER 10
 SHEET TOTAL 10

SCALE: 3/16"=1'-0"

NEW CLARIFIER No. 2 PLAN

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

DATE: 8-2-15 PROJECT NO.: 15003
 SCALE: 3/16"=1'-0" DWG NO: M000

REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, METALS, CALLOUTS, AND BEDDING REQUIREMENTS.



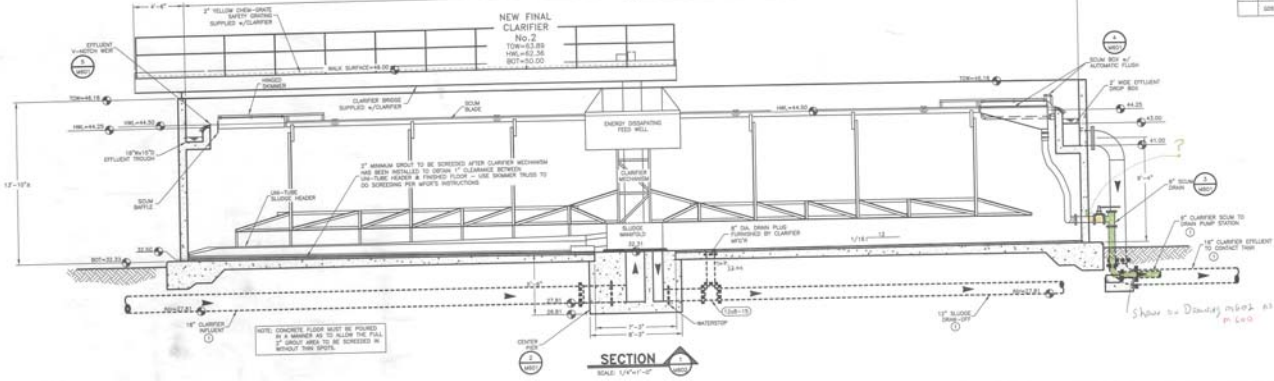
DRAWN BY: COG
 DESIGNED BY: JAW
 CHECKED BY: ACE

THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF REID ENGINEERING COMPANY, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

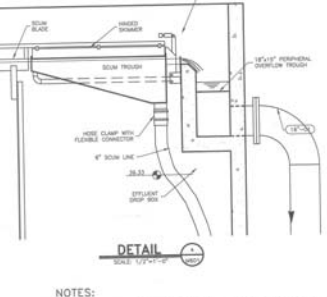
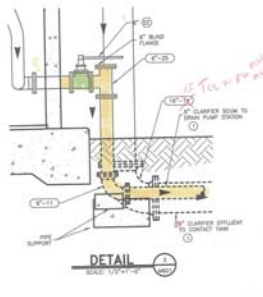
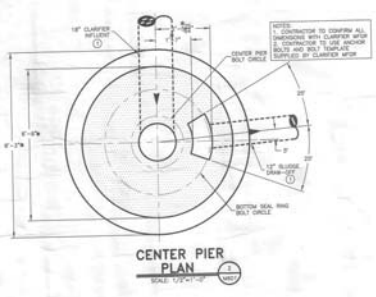
800 N. 9th St.
 1312 Pineview Ave. Street
 Fort Worth, Texas 76101
 Tel: (817) 371-8700 Fax: (817) 371-8776

REID ENGINEERING COMPANY, INC.

NO.	BY	CHECK	DATE	REVISION	DATE
1	MS	MS	04/18	REVISED FOR SITE REVIEW	02/21/18
2	MS	MS	04/18	FORSETT ELEVATIONS FROM TOUGHNET TANK HEIGHT CORRECTED	11/24/18
3	MS	MS	04/18	FOR CONSTRUCTION	1.8.18



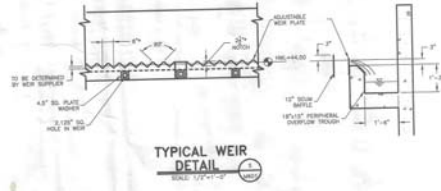
Show the Downey riser as a Tee? marked as a 90?



LEGEND

	FITTING
	PIPE
	VALVE
	DETAIL NUMBER
	SECTION NUMBER

- NOTES:**
1. DETAILS 2,3 & 5 ARE FOR REFERENCE ONLY.
 2. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DETAILS, DIMENSIONS & ELEVATIONS WITH MANUFACTURER'S SHOP DRAWINGS AND ACTUAL ON-SITE CONDITIONS.
 3. ALL MECHANICAL JOINT PIPE CONNECTIONS UNDER CONCRETE SLAB TO BE INSTALLED WITH RESTRAINED JOINTS.
 4. * DENOTES REFERENCE DIMENSIONS ONLY (TO BE VERIFIED WITH EQUIPMENT SUPPLIER).
 5. TWO (2) CHEMICAL LINES TO BE INSTALLED FOR EACH CHEMICAL TO BE SUPPLIED. (ONE HOTLINE & ONE STAND-BY)
 6. MASTIC OR BUFFER MATERIAL REQUIRED BETWEEN DISSIMILAR METALS. ALL BOLTS, WASHERS AND NUTS TO BE STAINLESS STEEL WITH SUTLER MATERIAL TO PROTECT OTHER METALS.
 7. CLARIFIER MECHANICAL, GALVANIZED BROGGE, ALUMINUM MAGNADISC, SCUM TROUGH(S), WEIRS AND SKIMMERS(S), TO BE SUPPLIED BY CLARIFIER EQUIPMENT SUPPLIER, AND INSTALLED BY CONTRACTOR.
 8. ALL TANK PENETRATION LOCATIONS TO BE CONFIRMED WITH EQUIPMENT SUPPLIER.



REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALLOUTS AND BEGGING REQUIREMENTS.

DESIGNED BY: JMS
 DESIGNED BY: JMS
 CHECKED BY: MS
 DATE: 11/18

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REID ENGINEERING COMPANY, INC.

1710 Pioneer Avenue Street
 Independence, Virginia 22131
 Tel: (404) 371-8828 Fax: (404) 371-8818

NEW CLARIFIER No.2
SECTION & DETAILS
 ALLEN HARM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBER: MS
 DATE: 9-2-18
 SCALE: AS SHOWN

SHEETS: MS01
 SHEET NO.: MS01