

NO.	BY	CHKD	APPV	REVISION	DATE
001	AEZ	JMH		REVISION PER STATE REVIEW	8.23.18
002	AEZ	JMH		ADD VALVE, REVERSE VALVE	8.28.18
003	AEZ	JMH		REVISOR PIPING	11.24.18
004	AEZ	JMH		FOR CONSTRUCTION	1.8.19

NOTES:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATING 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 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.

LEGEND

FITTING SIZE: (Symbol) - FITTING TYPE

PIPE SIZE: (Symbol) - PIPE TYPE

VALVE SIZE: (Symbol) - VALVE TYPE

SEE SHEET S100 FOR SCHEDULES & DESCRIPTIONS

DETAIL NUMBER: (Symbol) - SHEET DETAIL # DRAWING

SECTION NUMBER: (Symbol) - SHEET SECTION # DRAWING

GRAPHIC SCALE: 0' 10' 20' 30'

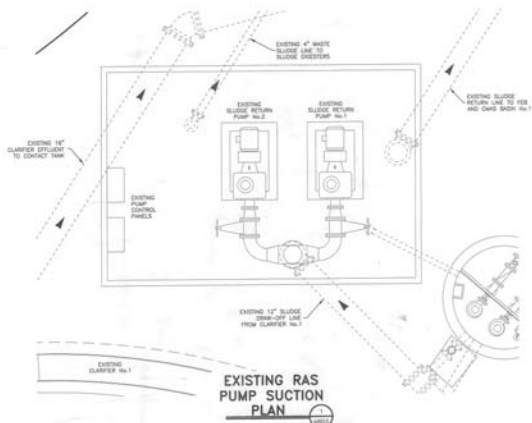
REFER TO "D" SHEETS FOR ALL GENERAL PIPING NOTES, DETAILS, CALCULUS AND BEDDING REQUIREMENTS.

DESIGNED BY: JMH
 CHECKED BY: AEZ
 DATE: 1/17/19

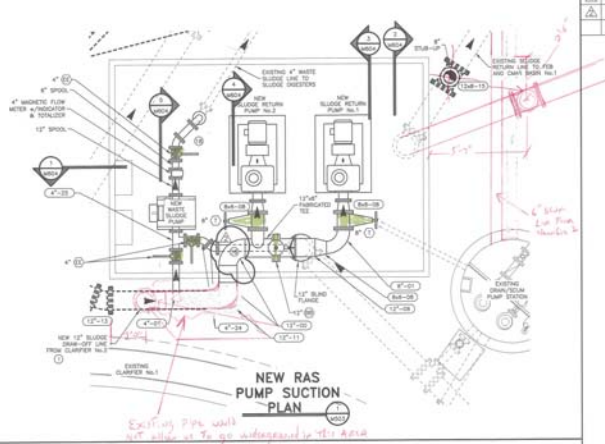
REID ENGINEERING COMPANY, INC.
 1210 Princess Anne Street
 Fredericksburg, Virginia 22401
 703.640.2711 • 800R.Fax(703)427-8876

RAS & WAS PUMP STATION AREA PLAN
 ALLEN HARMON FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

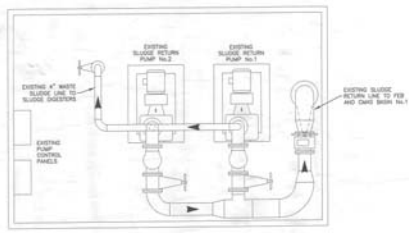
DATE: 8-2-18 PROJECT NO: ANGSA
 SCALE: 1/4"=1'-0" DWG NO: WWS0



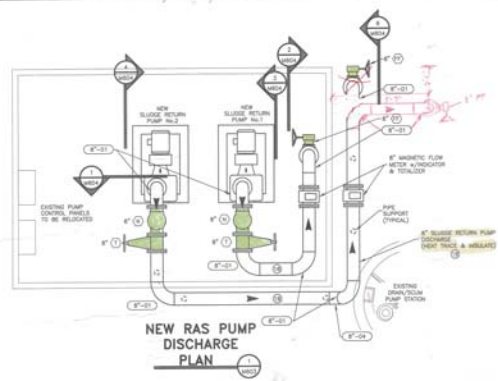
EXISTING RAS PUMP SUCTION PLAN



NEW RAS PUMP SUCTION PLAN



EXISTING RAS PUMP DISCHARGE PLAN



NEW RAS PUMP DISCHARGE PLAN

BY	CHKD	APPV	REVISION	DATE
JK	AEZ	JMH	REVISION FOR STATE REVIEW	8.23.15
JK	AEZ	JMH	REACTOR 1 P.S. & PIPING MATERIALS	8.24.15
JK	AEZ	JMH	FOR CONSTRUCTION	1.8.16

NOTES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING 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.

LEGEND

FITTING SIZE	Ø 30	FITTING TYPE
PIPE SIZE	Ø 12	PIPE TYPE
VALVE SIZE	Ø 12	VALVE TYPE

(SEE SHEET 0100 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER: 1 - SHEET DETAIL # 1

SECTION NUMBER: 1 - SHEET SECTION # 1



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

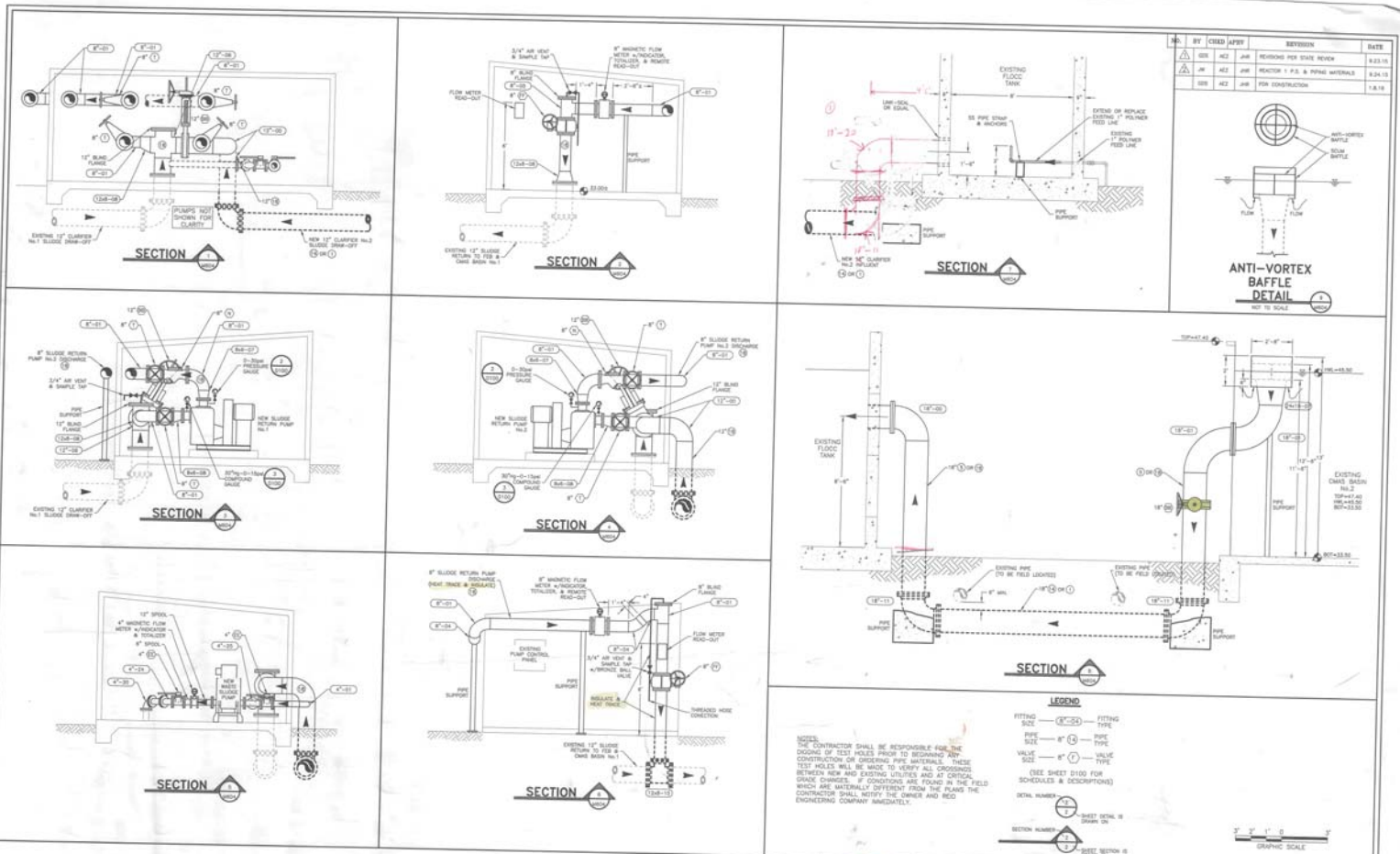


DRAWN BY: GOS
DESIGNED BY: JMH
CHECKED BY: AEZ

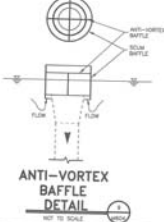
REID ENGINEERING COMPANY, INC.
1215 Process Anne Street
Raleigh, North Carolina 27607
Tel: (919) 371-8500 Fax: (919) 371-8578

RAS & WAS PUMP STATION PLANS
ALLEN HARM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

TABULAR: 9-2-15 PROJECT NO.: 48524
SCALE: 1/8"=1'-0" DWG NO.: 8809



BY	CHECK	APPV	REVISION	DATE
AM	AZ	JAM	REVISION PER STATE REVIEW	8.23.15
AM	AZ	JAM	REVISION 1 P.S. & PIPING WATERLIES	8.24.15
AM	AZ	JAM	FOR CONSTRUCTION	7.8.16



LEGEND

FITTING SIZE (C) (D) FITTING TYPE
 PIPE SIZE (E) (F) PIPE TYPE
 VALVE SIZE (G) (H) VALVE TYPE
 (SEE SHEET 01-10 FOR SCHEDULES & DESCRIPTIONS)

DETAIL NUMBER
 SECTION NUMBER
 SHEET TOTAL IN DRAWING
 SHEET NUMBER IN

NOTES:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OF EXISTING PIPE MATERIAL. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND TO CORRECT GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS THE CONTRACTOR SHALL NOTIFY THE OWNER AND RECORD ENGINEERING COMPANY IMMEDIATELY.

GRAPHIC SCALE

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

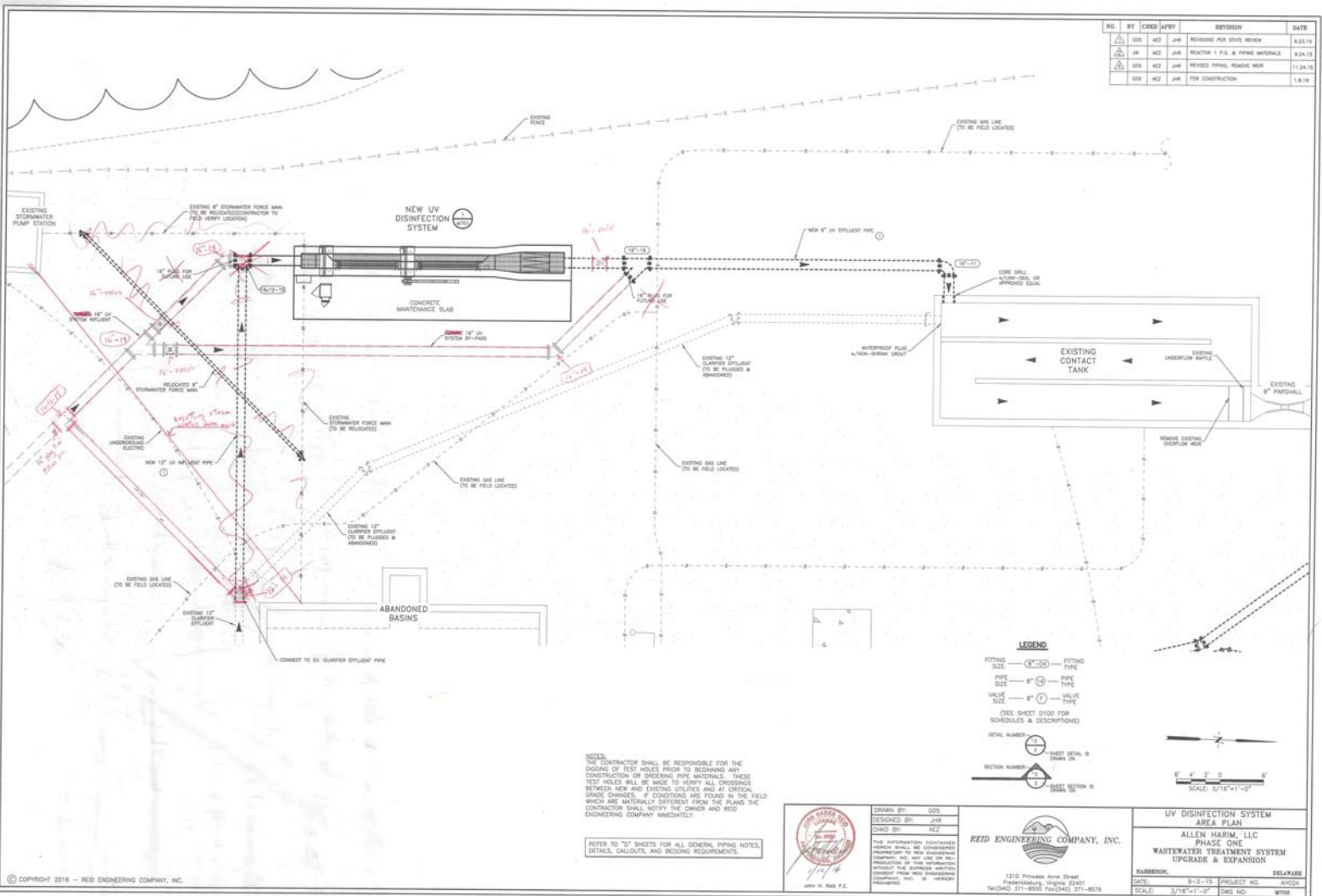
DRAWN BY: GSS
 DESIGNED BY: JAM
 CHECK BY: AZE
 JOHN H. RAY P.E.

REID ENGINEERING COMPANY, INC.
 1212 Private Drive Street
 Fredericksburg, Virginia 22401
 TEL: (804) 371-4000 FAX: (804) 371-8818

RAS & WAS PUMP STATIONS SECTIONS & DETAILS
 ALLEN HARMON FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

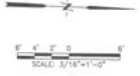
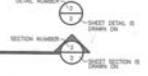
DRAWING NO. 15024
 DATE: 8-2-15 PROJECT NO. 15024
 SCALE: 1/8"=1'-0" DWG NO. 15024

NO.	BY	CHKD	APPR	REVISION	DATE
001	AEZ	JMR		REVISION PER STATE REVIEW	8.23.15
002	AEZ	JMR		REVISION 1 P.S. & PIPING MATERIALS	8.24.15
003	AEZ	JMR		REVISED PIPING, REMOVE WEIR	11.24.15
004	AEZ	JMR		FOR CONSTRUCTION	1.8.16



LEGEND

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



NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS 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 CROSSINGS. 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, CALLOUTS, AND BIDDING REQUIREMENTS.

DESIGNED BY: JMR
CHECKED BY: AEZ

THE INFORMATION CONTAINED HEREIN SHALL BE CONSIDERED PRELIMINARY BY THE CONTRACTOR. REID ENGINEERING COMPANY, INC. AND ITS SUBSIDIARIES MAKE NO WARRANTY, REPRESENTATION OR ASSURANCE WITHOUT THE EXPRESS WRITTEN CONSENT FROM REID ENGINEERING COMPANY, INC. NO WORKER SHALL BE HELD RESPONSIBLE.

JOHN H. REID P.E.

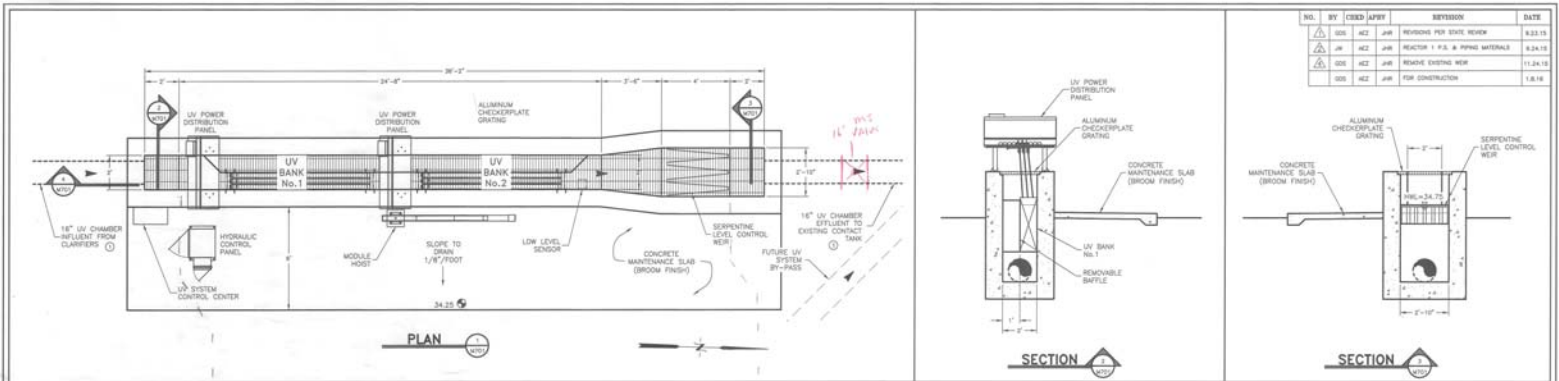
REID ENGINEERING COMPANY, INC.

1210 PINEAPPLE AVENUE STREET
FREDERICKSBURG, VIRGINIA 22407
703-462-3711-8000 FAX(404) 371-8578

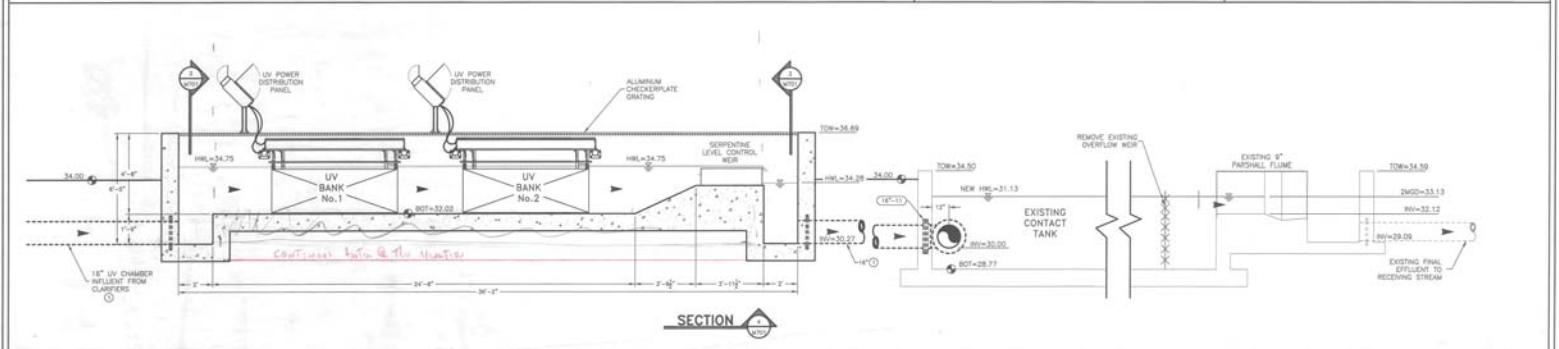
UV DISINFECTION SYSTEM AREA PLAN

ALLEN HARRIS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION

BARBERSON DELAWARE
DATE: 8-2-15 PROJECT NO: A0204
SCALE: 3/16"=1'-0" DWG NO: 0708



NO.	BY	CHKD	APPV	REVISION	DATE
001	ALZ	JHP		REVISION FOR TOILE REVIEW	8.22.15
002	ALZ	JHP		REACTOR 1 P.S. & PIPING MATERIALS	8.24.15
003	ALZ	JHP		REMOVE EXISTING WEIR	11.24.15
004	ALZ	JHP		FSM CONSTRUCTION	1.8.16



LEGEND

FITTING SIZE	1" (1)	FITTING TYPE	
PIPE SIZE	8" (2)	PIPE TYPE	
VALVE SIZE	8" (3)	VALVE TYPE	

(SEE SHEET D100 FOR SCHEDULES & DESCRIPTIONS)

SHEET NUMBER: 1

SECTION NUMBER: 1

GRAPHIC SCALE: 1" = 1'-0"

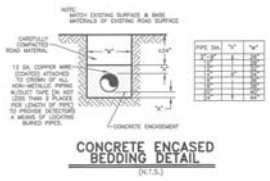
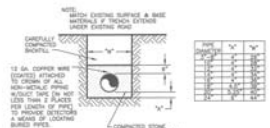
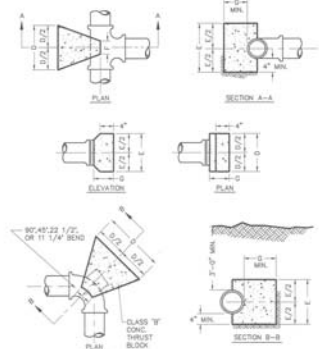
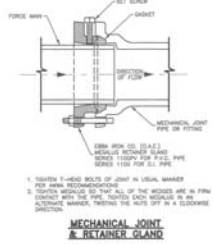
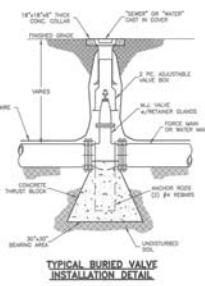
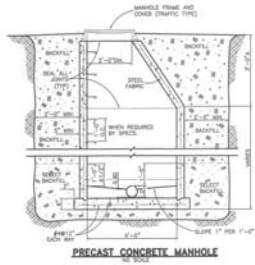
NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION OR CRISPING PIPE MATERIALS. THESE TEST HOLES SHALL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING UTILITIES AND AT CRITICAL SPACES. 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.

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

	DRAWN BY: SCS DESIGNED BY: JHP CHECK BY: ALZ		UV DISINFECTION SYSTEM PLAN SECTION & DETAILS ALLEN HARIM, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION
	REID ENGINEERING COMPANY, INC. 1310 Princess Anne Street Fredericksburg, Virginia 22401 Tel: (541) 371-8000 Fax: (541) 371-8878		BARRENSON: 1-2-13 PROJECT NO.: 170228 SCALE: 3/8"=1'-0" DWG NO.: W091

NO.	BY	CHKD	APPROV	REVISION	DATE
					REVISIONS PER STATE REVIEW
001	ACE	JPM	JPM		8.23.15
002	ACE	JPM	JPM	FOR CONSTRUCTION	1.8.16



FITTING	THRUST BLOCK DIMENSIONS									
	1 1/4" BEND	22 1/2" BEND	45° BEND	90° BEND	45° BEND	22 1/2" BEND	1 1/4" BEND	1 1/4" BEND	1 1/4" BEND	1 1/4" BEND
PIPE DIA.	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CONCRETE WIDTH	12"	18"	24"	30"	36"	42"	48"	54"	60"	72"
CONCRETE HEIGHT	12"	18"	24"	30"	36"	42"	48"	54"	60"	72"
CONCRETE LENGTH	12"	18"	24"	30"	36"	42"	48"	54"	60"	72"
CONCRETE AREA	144"	324"	576"	1080"	1296"	1764"	2304"	2916"	3600"	5184"
CONCRETE WEIGHT	11.25 lbs	25.5 lbs	45 lbs	81 lbs	97.2 lbs	132.3 lbs	176.4 lbs	227.7 lbs	288 lbs	405 lbs

CONCRETE THRUST BLOCKS FOR PIPE FITTINGS

NOTES:
 1. USE 3/4" DIA. #4 BARS.
 2. CURRY ALL BEARING SURFACES TO UNDISTURBED CAPS OF FIRM SOIL.
 3. THE TABLE ABOVE IS BASED ON A SOIL BEARING CAPACITY OF 2000 P.S.F. (14.3 MPa) IN A 10' DEPTH OF SOIL.
 4. A TEST PROGRAM OF 1.5" TO 2" DIA. CONCRETE BLOCKS (4" DIA) SHALL BE PROPOSED AND APPROVED BY THE ENGINEER FOR USE IN THIS PROJECT.
 5. THE TABLE ABOVE IS BASED ON A SOIL BEARING CAPACITY OF 2000 P.S.F. (14.3 MPa) IN A 10' DEPTH OF SOIL.
 6. CURRY ALL BEARING SURFACES TO UNDISTURBED CAPS OF FIRM SOIL.

John A. Reid, P.E.

DESIGNED BY: JPM
 CHECKED BY: ACE

REID ENGINEERING COMPANY, INC.
 1210 Phoenix Area Road
 Fredericksburg, Virginia 22401
 Tel: (540) 371-8500 Fax: (540) 371-8513

GENERAL PIPING
 NOTES & DETAILS
 ALLEN HARIM, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BARBORON, DELAWARE
 DATE: 8-2-15 PROJECT NO: AH05A
 SCALE: NONE DWG. NO.: 2056

GENERAL STRUCTURAL AND CONSTRUCTION NOTES

THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

1. CODES AND STANDARDS

- 1. THE FOLLOWING CODES AND STANDARDS INCLUDING ALL AMENDMENTS REFERENCED SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND FINISHES OF ALL WORK PERFORMED ON THIS PROJECT. USE THE LATEST EDITIONS UNLESS OTHERWISE SPECIFIED.
- 2. 2015 INTERNATIONAL BUILDING CODE, INTERNATIONAL CODE COUNCIL, INC.
- 3. MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES (ASCE 7-10), AMERICAN SOCIETY OF CIVIL ENGINEERS.
- 4. WALLING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-11, AMERICAN CONCRETE INSTITUTE.
- 5. MANUAL OF STANDARD PRACTICE, CONCRETE REINFORCING STEEL INSTITUTE.
- 6. MANUAL OF STEEL CONSTRUCTION, FOURTH EDITION, 2010, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 7. STRUCTURAL WELDING CODE (AWS) D1.1-2010 AND AWS D1.3-09, AMERICAN WELDING SOCIETY.
- 8. TENSILE SPECIFICATIONS FOR OPEN END STEEL JOISTS, A-ROOF, STEEL JOIST INSTITUTE 2010.
- 9. DESIGN MANUAL FOR COMPOSITE DECK, FORM DECKS, AND ROOF DECKS - NO. 37, STEEL DECK INSTITUTE.
- 10. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-10/ASCE 5-11) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-11/ASCE 5-11).

2. DESIGN BASIS

- 1. BUILDING USE CATEGORY: B
- 2. ALL LOADS PROVIDED IN GENERAL NOTES AND ON DRAWINGS ARE SERVICE LOADS.
- 3. DWMT - SUPERIMPOSED DEAD LOADS
- 4. DWMT - SUPERIMPOSED LIVE LOADS
- 5. WIND PLATING: 60
- 6. WIND SPEED: 130 MPH
- 7. WIND EXPOSURE: C
- 8. WIND PRESSURE COEFFICIENT: 0.18
- 9. WIND DESIGN WIND SPEED: 130 MPH
- 10. WIND DESIGN WIND SPEED: 130 MPH
- 11. WIND DESIGN WIND SPEED: 130 MPH

3. MATERIALS

- 1. CONCRETE: ALL CONCRETE TO BE DESIGNED IN ACCORDANCE WITH ACI 318-11.
- 2. REINFORCING STEEL: ALL REINFORCING STEEL TO BE DESIGNED IN ACCORDANCE WITH ACI 318-11.
- 3. WELDING: ALL WELDING TO BE DESIGNED IN ACCORDANCE WITH AWS D1.1-2010 AND AWS D1.3-09.
- 4. MASONRY: ALL MASONRY TO BE DESIGNED IN ACCORDANCE WITH ACI 530-11/ASCE 5-11.

4. CONSTRUCTION

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.

5. GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.

6. MATERIALS

ITEM	DESCRIPTION	UNIT	QUANTITY	REMARKS
1.	REINFORCING STEEL	TON	100	
2.	CONCRETE	CU YD	500	
3.	WELDING	TON	5	
4.	MASONRY	CU YD	10	
5.	STEEL	TON	20	
6.	GLASS	SQ FT	1000	
7.	PAINT	SQ FT	1000	
8.	INSULATION	SQ FT	1000	
9.	ROOFING	SQ FT	1000	
10.	MECHANICAL	TON	5	
11.	ELECTRICAL	TON	5	
12.	PLUMBING	TON	5	
13.	MECHANICAL	TON	5	
14.	ELECTRICAL	TON	5	
15.	PLUMBING	TON	5	

7. REINFORCEMENT

- 1. DETAINED REINFORCING BARS: ASTM A618, GRADE 60
- 2. REINFORCING BARS (W/OUT): ASTM A618, GRADE 60
- 3. REINFORCING BARS (W/OUT): ASTM A618, GRADE 60
- 4. REINFORCING BARS (W/OUT): ASTM A618, GRADE 60

8. MASONRY

- 1. MASONRY: STANDARD CONCRETE MASONRY UNITS WITH 8% MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 3000 PSI
- 2. MASONRY: SOLID - ASTM C90, GRADE N, WITH 8% MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 3000 PSI
- 3. MASONRY: SOLID - ASTM C90, GRADE N, WITH 8% MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 3000 PSI

9. WOOD

- 1. WOOD: ALL WOOD SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. WOOD: ALL WOOD SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. WOOD: ALL WOOD SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

10. STEEL

- 1. STRUCTURAL SHAPES: ASTM A992
- 2. PLATES, CHANNELS, ANGLES & WELLS: ASTM A572, GRADE 50
- 3. HOLLOW STRUCTURAL SECTION: ASTM A588, GRADE 50
- 4. REINFORCING STEEL: ASTM A618, GRADE 60
- 5. REINFORCING STEEL: ASTM A618, GRADE 60
- 6. REINFORCING STEEL: ASTM A618, GRADE 60
- 7. REINFORCING STEEL: ASTM A618, GRADE 60
- 8. REINFORCING STEEL: ASTM A618, GRADE 60
- 9. REINFORCING STEEL: ASTM A618, GRADE 60
- 10. REINFORCING STEEL: ASTM A618, GRADE 60

11. CONSTRUCTION

- 1. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

12. GENERAL

- 1. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

13. CONSTRUCTION

- 1. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

14. GENERAL

- 1. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

15. CONSTRUCTION

- 1. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

16. GENERAL

- 1. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

17. MASONRY

- 1. MASONRY: ALL MASONRY SHALL BE DESIGNED IN ACCORDANCE WITH ACI 530-11/ASCE 5-11.
- 2. MASONRY: ALL MASONRY SHALL BE DESIGNED IN ACCORDANCE WITH ACI 530-11/ASCE 5-11.
- 3. MASONRY: ALL MASONRY SHALL BE DESIGNED IN ACCORDANCE WITH ACI 530-11/ASCE 5-11.

18. STEEL

- 1. STEEL: ALL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. STEEL: ALL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. STEEL: ALL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

19. CONSTRUCTION

- 1. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

20. GENERAL

- 1. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

21. CONSTRUCTION

- 1. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. CONSTRUCTION: ALL CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

22. GENERAL

- 1. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 2. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.
- 3. GENERAL: ALL GENERAL SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318-11/ASCE 5-11.

NO.	BY	DATE	APPROVED	REVISION	DATE
1.	ED	08/15/18	ED	REVISED FOR CONSTRUCTION	01/18/18

23. MATERIALS

- 1. DESIGN OF JOIST SHALL BE IN ACCORDANCE WITH THE PROJECT'S SPECIFICATIONS FOR ALL LOADS REQUIRED BY THESE COMMENTS. ALL DIMENSIONS SHALL BE THE CONTRACTOR'S SIZE AND FINISH.
- 2. BRACING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER TO BE COMPLETELY REDESIGNED FROM THE CONTRACTOR'S SIZE AND FINISH.
- 3. FOR ROOF JOISTS INCLUDING ROOF JOIST PLUMBING AT THE FIRST FLOOR PLUMB FROM SUPPORTS, PROVIDE ADEQUATE BRACING AS REQUIRED BY THE JOIST MANUFACTURER.
- 4. ALL SUPPORTED ROOF JOISTS AND OTHER SUPPORTED EQUIPMENT AND FITTINGS SHALL BE DIRECTLY SUPPORTED FROM JOIST PANELS UNLESS THEY OR BOTTOM CHORDS ARE SPECIALLY DESIGNED FOR SUPPORTING LOADS OF ADDITIONAL REINFORCEMENT IS PROVIDED.

24. OBSERVATIONS

NO.	DESCRIPTION
1.	FOUNDATION
2.	FOUNDATION
3.	FOUNDATION
4.	FOUNDATION
5.	FOUNDATION
6.	FOUNDATION
7.	FOUNDATION
8.	FOUNDATION
9.	FOUNDATION
10.	FOUNDATION
11.	FOUNDATION
12.	FOUNDATION
13.	FOUNDATION
14.	FOUNDATION
15.	FOUNDATION
16.	FOUNDATION
17.	FOUNDATION
18.	FOUNDATION
19.	FOUNDATION
20.	FOUNDATION
21.	FOUNDATION
22.	FOUNDATION
23.	FOUNDATION
24.	FOUNDATION
25.	FOUNDATION
26.	FOUNDATION
27.	FOUNDATION
28.	FOUNDATION
29.	FOUNDATION
30.	FOUNDATION
31.	FOUNDATION
32.	FOUNDATION
33.	FOUNDATION
34.	FOUNDATION
35.	FOUNDATION
36.	FOUNDATION
37.	FOUNDATION
38.	FOUNDATION
39.	FOUNDATION
40.	FOUNDATION
41.	FOUNDATION
42.	FOUNDATION
43.	FOUNDATION
44.	FOUNDATION
45.	FOUNDATION
46.	FOUNDATION
47.	FOUNDATION
48.	FOUNDATION
49.	FOUNDATION
50.	FOUNDATION
51.	FOUNDATION
52.	FOUNDATION
53.	FOUNDATION
54.	FOUNDATION
55.	FOUNDATION
56.	FOUNDATION
57.	FOUNDATION
58.	FOUNDATION
59.	FOUNDATION
60.	FOUNDATION
61.	FOUNDATION
62.	FOUNDATION
63.	FOUNDATION
64.	FOUNDATION
65.	FOUNDATION
66.	FOUNDATION
67.	FOUNDATION
68.	FOUNDATION
69.	FOUNDATION
70.	FOUNDATION
71.	FOUNDATION
72.	FOUNDATION
73.	FOUNDATION
74.	FOUNDATION
75.	FOUNDATION
76.	FOUNDATION
77.	FOUNDATION
78.	FOUNDATION
79.	FOUNDATION
80.	FOUNDATION
81.	FOUNDATION
82.	FOUNDATION
83.	FOUNDATION
84.	FOUNDATION
85.	FOUNDATION
86.	FOUNDATION
87.	FOUNDATION
88.	FOUNDATION
89.	FOUNDATION
90.	FOUNDATION
91.	FOUNDATION
92.	FOUNDATION
93.	FOUNDATION
94.	FOUNDATION
95.	FOUNDATION
96.	FOUNDATION
97.	FOUNDATION
98.	FOUNDATION
99.	FOUNDATION
100.	FOUNDATION

GENERAL NOTES

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

REID ENGINEERING COMPANY, INC.
1210 Phoenix Avenue Street
Farmington Hills, Michigan 48334
Tel: (248) 371-8800 Fax: (248) 371-8878

DATE: 2 SEPT 2018 PROJECT NO: 18001
SCALE: AS NOTED DWG NO: 50.00

NO.	BY	CREW	APPROV	REVISION	DATE
ED	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/28/18

VERIFICATION AND INSPECTION	SOILS SPECIAL INSPECTION			
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY	SCOPE
BEARING CAPACITY	1708.6, TABLE 1708.6		CONTINUOUS	X
	1708.6, TABLE 1708.6		PERIODIC	
EXCAVATION	1708.6, TABLE 1708.6		CONTINUOUS	X
	1708.6, TABLE 1708.6		PERIODIC	
COMPACTED SELECT FILL	1708.6, TABLE 1708.6		CONTINUOUS	X
	1708.6, TABLE 1708.6		PERIODIC	
PLACEMENT AND COMPACTION OF COMPACTED SELECT FILL	1708.6, TABLE 1708.6		CONTINUOUS	X
	1708.6, TABLE 1708.6		PERIODIC	
SUBGRADE PREPARATION	1708.6, TABLE 1708.6		CONTINUOUS	X
	1708.6, TABLE 1708.6		PERIODIC	

SOILS SPECIAL INSPECTION SCHEDULE
SCALE: NS

VERIFICATION AND INSPECTION	POST-INSTALLED ANCHORS SPECIAL INSPECTION			
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY	SCOPE
ADHESIVE ANCHORS	1705.4, 1705.1.1.3	EC EVALUATION REPORT	CONTINUOUS	X
			PERIODIC	

POST-INSTALLED ANCHORS SPECIAL INSPECTION SCHEDULE
SCALE: NS

VERIFICATION AND INSPECTION	STEEL DECK SPECIAL INSPECTION			
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY	SCOPE
MATERIAL VERIFICATION OF MECHANICAL FASTENERS			CONTINUOUS	X
			PERIODIC	
NON-COMPOSITE FLOOR AND ROOF DECK ATTACHMENT	1703.2.1.1, TABLE 1703.2.1	ANS D1.3	CONTINUOUS	X
			PERIODIC	

STEEL DECK SPECIAL INSPECTION SCHEDULE
SCALE: NS

VERIFICATION AND INSPECTION	MASONRY LEVEL 1 SPECIAL INSPECTION			
	IBC 2006 REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY	SCOPE
PROPORTIONS OF PREPARED MORTAR	TABLE 1704.5.1	AD 530.1, ARTICLE 2.84	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 3.38	PERIODIC	
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	PERIODIC	
CONCRETE AND ANCHORS	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 2.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 2.4	PERIODIC	
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	TABLE 1704.5.1	AD 530.1, ARTICLE 3.30	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	PERIODIC	
SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	PERIODIC	
TYPE, SIZE, AND LOCATION OF ANCHORS	TABLE 1704.5.1	AD 530.1, 1.25(a), 2.1.4, 3.18	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.80	PERIODIC	
COLD WEATHER PROTECTION OF MASONRY	TABLE 1704.5.1	AD 530.1, ARTICLE 1.80	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.80	PERIODIC	
HOT WEATHER PROTECTION OF MASONRY	TABLE 1704.5.1	AD 530.1, ARTICLE 1.80	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.80	PERIODIC	
GROUP SPACING	TABLE 1704.5.1	AD 530.1, ARTICLE 3.20	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	PERIODIC	
REINFORCEMENT AND CONNECTIONS	TABLE 1704.5.1	AD 530.1, 1.13, AD 530.1, ARTICLE 3.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 3.38	PERIODIC	
CONSTRUCTION OF MORTAR JOINTS	TABLE 1704.5.1	AD 530.1, ARTICLE 3.38	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 3.5	PERIODIC	
GROUP PLACEMENT	TABLE 1704.5.1	AD 530.1, ARTICLE 3.5	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.4	PERIODIC	
ORGANIZATION OF THE PREPARATION OF REQUIRED GROUP SPECIMENS	TABLE 1704.5.1	AD 530.1, ARTICLE 1.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.4	PERIODIC	
ORGANIZATION OF THE PREPARATION OF REQUIRED MORTAR SPECIMENS	TABLE 1704.5.1	AD 530.1, ARTICLE 1.4	CONTINUOUS	X
	TABLE 1704.5.1	AD 530.1, ARTICLE 1.3	PERIODIC	

MASONRY LEVEL 1 SPECIAL INSPECTION SCHEDULE
SCALE: NS

VERIFICATION AND INSPECTION	CAST-IN-PLACE CONCRETE SPECIAL INSPECTION			
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY	SCOPE
REINFORCING STEEL	TABLE 1705.3	AD 318, 1.3.2(a), 5.5, 7.1-7.3	CONTINUOUS	X
	TABLE 1705.3	AD 318, 1.3.2(a)	PERIODIC	
ANCHOR BOLTS	TABLE 1705.3	AD 318, 1.3.2(a)	CONTINUOUS	X
	TABLE 1705.3	AD 318, 1.3.2(a)	PERIODIC	
CONCRETE DESIGN MIX VERIFICATION	1804.2, TABLE 1705.3	AD 318, CHAPTER 4, 8.2-8.4	CONTINUOUS	X
	TABLE 1705.3	AD 318, CHAPTER 3	PERIODIC	
QUALITY OF STAGERS OF MATERIALS	TABLE 1705.3	AD 318, 1.3.3(a), 5.6, 5.8, 5.10	CONTINUOUS	X
	TABLE 1705.3	AD 318, 1.3.3(a), 5.6, 5.8, 5.10	PERIODIC	
CONCRETE SAMPLING AND TESTING	TABLE 1705.3	AD 318, 1.3.3(a), 5.6, 5.8, 5.10	CONTINUOUS	X
	TABLE 1705.3	AD 318, 5.6, 5.8, 5.10	PERIODIC	
CONCRETE PLACEMENT	TABLE 1705.3	AD 318, 5.6, 5.8, 5.10	CONTINUOUS	X
	TABLE 1705.3	AD 318, 5.11-5.13, AD 305, AD 306	PERIODIC	
FORMWORK	TABLE 1705.3	AD 318, 6.1	CONTINUOUS	X
	TABLE 1705.3	AD 318, 6.1	PERIODIC	
WATER STOPS	TABLE 1705.3	AD 318, 6.1	CONTINUOUS	X
	TABLE 1705.3	AD 318, 6.1	PERIODIC	

CAST-IN-PLACE CONCRETE SPECIAL INSPECTION SCHEDULE
SCALE: NS

CODE ANALYSIS

CODE ANALYSIS INFORMATION
2015 INTERNATIONAL BUILDING CODE
Project: ALLEN HARIM FOODS, LLC
HARRISON, DE
Name: REACTOR NO 1 EFFLUENT PUMP STATION
1. OCCUPANCY CLASSIFICATION: R-1 MODERATE-DENSITY OCCUPANCY
OCCUPANCY LOAD: 4
2. TYPE OF CONSTRUCTION: TYPE III
3. ALLOWABLE HEIGHT AND BUILDING AREA PER FLOOR: TWO-STORIES AND 15,000 SQ FT
4. ACTUAL FLOOR AREAS AND STORES: 480 SQ FT ONE STORY
5. HORIZONTAL SEPARATION DISTANCES: 30 FEET
6. EXIT ACCESS CORRIDOR PROTECTION REQUIREMENTS: NOT APPLICABLE FOR THIS PROJECT.



SPECIAL INSPECTION SCHEDULES	
ALLIANCE	ALLEN HARIM FOODS, LLC
PHASE	PHASE ONE
PROJECT	WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION
DATE	2 SEPT 2015
PROJECT NO.	AW204
SCALE:	AS NOTED DWG NO. 00.01

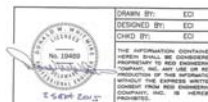
NO.	BY	CHG.	APPLY	REVISION	DATE
ED	ED	ED	ED	ED	ED
					01/06/16

DEMOLITION OF EXISTING COOLING SHED

EXISTING COOLING SHED IS CONSTRUCTED OF A PRE-ENGINEERED METAL BUILDING (PEMB) SYSTEM CONSISTING OF STEEL FRAMES SUPPORTING LIGHT GAUGE PURLINS. THE EXISTING COOLING SHED SHALL BE DEMOLISHED AND TWO BAYS OF THE PEMB FOR THE TRUCK SHOP SHALL REMAIN. THE STEEL FRAME IMMEDIATELY OUTSIDE THE TRUCK SHOP SHALL REMAIN. PROVIDE AN ALLOWANCE FOR ADDING ADDITIONAL PURLINS IN THE PEMB BAY OF THE TRUCK SHOP ADJACENT TO THE COOLING SHED. AN ADDITIONAL PURLIN SHALL BE ADDED MIDWAY BETWEEN EXISTING PURLINS.

VERIFICATION AND INSPECTION	STRUCTURAL STEEL SPECIAL INSPECTION		INSPECTION		SCOPE
	ISC 2013 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY	PERIOD	
STRUCTURAL STEEL FABRICATION AND ERECTION					THE LISTED VERIFICATION AND INSPECTION ITEMS APPLY TO BOTH SHOP FABRICATION AND FIELD ERECTION.
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1705.2, 2203.1	ASTM A8 OR ASTM A588, AISC 360 SECTION A3.14	X		REVIEW IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFIED MILL TEST RESULTS.
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS		APPLICABLE ASTM MATERIAL STANDARDS, AISC 360 SECTION A3.3, A5.8	X		REVIEW IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIREMENTS.
STORAGE OF BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		ASC 360 SECTION A5.8	X		VERIFY PROPER STORAGE IS PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.
INSPECTION OF HIGH-STRENGTH BOLTING BEARING-TYPE CONNECTIONS		ASC 360 SECTION A5.8	X		VERIFY THAT THE CONNECTED MEMBERS HAVE BEEN DRAWN TOGETHER AND PROPERLY BRIDGED. VISUALLY INSPECT ALL CONNECTIONS.
INSPECTION OF HIGH-STRENGTH BOLTING SLIP-CRITICAL CONNECTIONS USING TENSILE-ONLY-TYPE TIGHTENING CONTROL BOLT METHOD		ASC 360 SECTION A5.8	X		OBSERVE THE PREINSTALLATION TESTING AND CALIBRATION PROCEDURES. VERIFY THE APPROPRIATE FRINGE SURFACE CONDITION AND HOLE PREPARATION OF THE CONNECTING ELEMENTS. DETERMINE THAT ALL THE PILES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY BRIDGED. VISUALLY INSPECT ALL CONNECTIONS.
DOCUMENTATION OF BOLTED CONNECTIONS		ASC 360 SECTION A5.8	X		DOCUMENT ACCEPTANCE OR REJECTION OF EACH BOLTED CONNECTION.
WELDING PROCEDURES		ASC 360 SECTION A5.5, AWS D1.1 SECTION 6.5	X		VERIFY THAT ALL WELDING OPERATIONS ARE PERFORMED IN ACCORDANCE WITH THE WELDING PROCEDURE SPECIFICATION.
WELDER QUALIFICATIONS		ASC 360 SECTION 6.4, AWS D1.1 SECTION 6.4	X		REVIEW WELDER QUALIFICATION CERTIFICATES.
MATERIAL VERIFICATION OF WELD FILLER MATERIALS		ASC 360 SECTION A5.5, AWS D1.1 SECTION 6.2	X		REVIEW IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIREMENTS.
INSPECTION PRIOR TO WELDING		ASC 360 SECTION A5.8, AWS D1.1 CHAPTERS 5 AND 6	X		VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKLING, AND BOOKING.
CRACKED TACK WELDS			X		VERIFY WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS.
ENVIRONMENTAL CONDITIONS			X		VERIFY WIND SPEED IS WITHIN LIMITS, AMBIENT TEMPERATURE, AND PRECIPITATION.
INSPECTION DURING WELDING		ASC 360 SECTION A5.8, AWS D1.1 CHAPTERS 5 AND 6	X		VERIFY RESERVES AND TACK CLEANING. EACH PASS IS WITHIN PROFILE DIMENSIONS AND EACH PASS MEETS QUALITY REQUIREMENTS.
CONTROL AND HANDLING OF WELDING CONSUMABLES			X		VERIFY PROTECTIVE AND ENCLOSURE CONTROL OF WELDING CONSUMABLES.
WELDS CLEANED			X		VERIFY THE WELDS HAVE BEEN CLEANED IN ACCORDANCE WITH AWS D1.1 SECTION 5.33.
SIZE, LENGTH, AND LOCATION OF WELDS			X		VERIFY THE SIZE, LENGTH, AND LOCATION OF WELDS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
VISUAL INSPECTION OF WELDS			X		VISUALLY INSPECT ALL WELDS PER AWS D1.1 TABLE 6.1.
INSPECTION AFTER WELDING		ASC 360 SECTION A5.8, AWS D1.1 CHAPTERS 5 AND 6	X		VERIFY THAT CRACKS AND BLEMISHES CAUSED BY ARC STRIKES OUTSIDE THE AREA OF PERMANENT WELDS HAVE BEEN GRINDED TO A SMOOTH SURFACE AND CHECKED TO ENSURE SOUNDNESS.
REPAIR OF BACKING AND WELD TAGS			X		VISUALLY INSPECT THE REPAIR AREA FOR CRACKS WITHIN 1" OF THE WELD.
REPAIR ACTIVITIES			X		VERIFY THE REMOVAL OF BACKING AND WELD TAGS.
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS FOR STRUCTURES IN RISK CATEGORY B OR C		ASC 360 SECTION A5.5, AWS E166, AWS D1.1 CHAPTER 6	X		USE ULTRASONIC TESTING ON 10% PERCENT OF GROOVE WELDS SUBJECT TO TRANSDUCERLY APPLIED TENSION LOADING IN AWS D1.1, AND CORNER JOINTS IN MATERIALS 1/4" THICK OR GREATER. A REDUCTION IN RATE OF TESTING IS ALLOWED PER ASC 360 SECTION A5.5d.
SINGLE-FRAME FLLET WELDS 1/8" THICK OR EQUAL TO 1/4"		AWS D1.1 SECTION 6.14	X		TEST ANY WELD THAT APPEARS QUESTIONABLE.
DOCUMENTATION OF WELDED JOINT OR MEMBER		ASC 360 SECTION A5.4	X		DOCUMENT ACCEPTANCE OR REJECTION OF EACH WELDED JOINT OR MEMBER.
INSPECTION OF STEEL FRAME JOINT DETAILS		ASC 360 SECTION A5.3	X		VERIFY DETAILS SUCH AS BRACING AND BEARING, MEMBER CONNECTIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
WELDING OF STAIRS AND WALKING SYSTEMS		AWS D1.1 SECTION 6.8	X		VISUALLY INSPECT ALL WELDS PER TABLE 6.1.

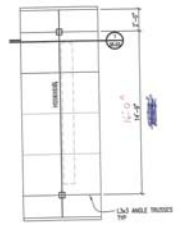
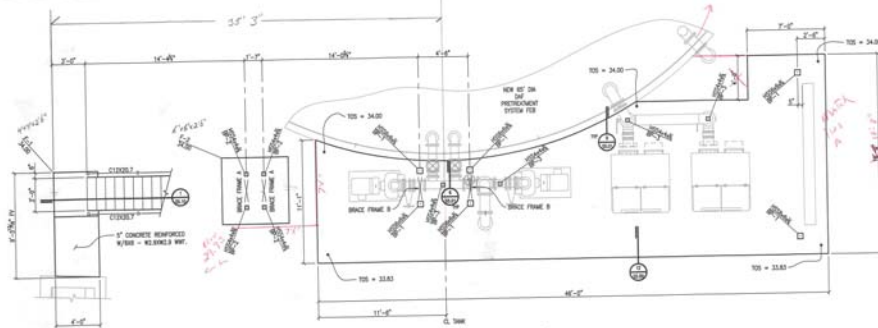
STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE
SCALE: NS



DESIGNED BY: EDI
 CHECKED BY: EDI
 REID ENGINEERING COMPANY, INC.
 1310 Powers Area Street
 Charlottesville, Virginia 22901
 Tel: (404) 271-8500 Fax: (404) 271-8578

SPECIAL INSPECTION SCHEDULES	
ALLAN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
DATE: 2 SEPT 2015 PROJECT NO.: ANCSA	SCALE: AS NOTED DWG NO.: 50.02

NO.	BY	USED	APPROV	REVISION	DATE
3	ECI	ECI	ED	AS NOTED	08/28/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/18



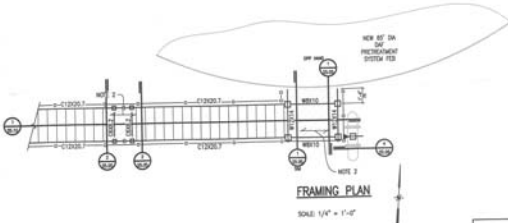
PARTIAL PLAN - ROOF FRAMING OVER ELECTRICAL CABINETS
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- FOUNDATION PLAN**
- SCALE: 1/4" = 1'-0"
- PLAN NOTES:**
- SEE SHEET 4102 FOR SITE LOCATION OF DAF PRETREATMENT SYSTEM FEED.
 - TOP OF SLAB ELEVATION = 34.50' UNLESS NOTED.
 - COLUMNS & FOOTINGS SEE:
-
- ALL FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED.
 - SEE SCHEDULE FOR ELEVATION NOTES.
 - SEE SCHEDULE AND SCHEDULE FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE SCHEDULE FOR TYPICAL FOUNDATION DETAILS.
 - CONCRETE ALL PIPE SUPPORTS WITH PIPES. SEE SCHEDULE FOR PIPE LOCATIONS AND SIZES.
 - PROVIDE GROUT UNDER PIPES AND BULKHEADS FOR LEAKING.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



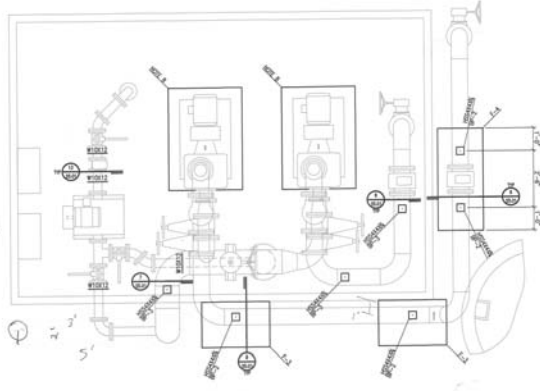
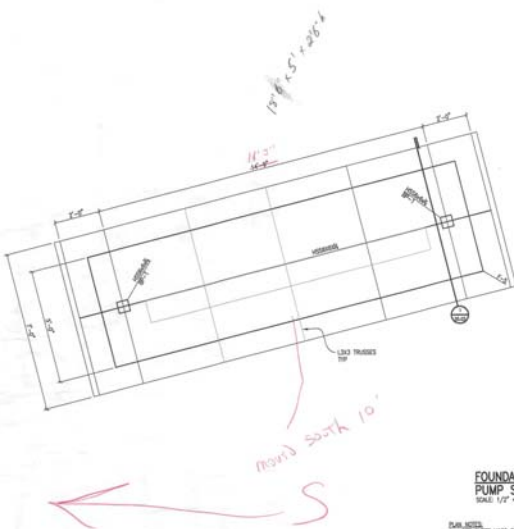
- BEAM NOTES:**
- TOP OF STRUCTURAL STEEL ELEVATION = 34'-0" UNLESS NOTED (34'-0")
 - 1" DEEP FIBERGLASS SHEETING
 - CONCRETE/STEEL COMPOSITE DECK
-
- TOP OF BEAM RELATIVE TO NOTE 1
- ALL BEAMS ARE SPACED EQUALLY BETWEEN COLUMN LINES UNLESS NOTED.
 - SEE SCHEDULE FOR ELEVATION NOTES.
 - SEE SCHEDULE FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE SCHEDULE FOR TYPICAL FRAMING DETAILS.
 - BEAM FRAMES EXCEEDED ON PLAN ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
 - SEE SCHEDULE FOR ELEVATIONS.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



FRAMING PLAN
SCALE: 1/4" = 1'-0"

	DRAWN BY: ED DESIGNED BY: ED CHECKED BY: ED		DAF PRETREATMENT SYSTEM FEED PLANS ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION
	1210 Pinhook Arroyo Street Fredericksburg, Virginia 22401 Tel: (540) 271-8000 Fax: (540) 271-8279		BARBER: AS NOTED DATE: 8 SEPT 2015 SCALE: AS NOTED PROJECT NO.: 15024 SHEET NO.: 01.00

NO.	BY	CHKD	APPROV	REVISION	DATE
3	ED	ED	ED	AS NOTED	08/28/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/18

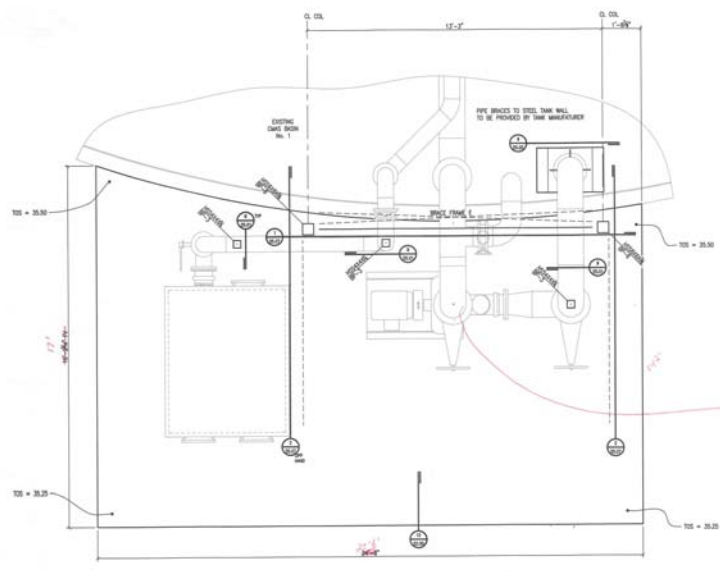


FOUNDATION PLAN - EXISTING SLUDGE PUMP STATION
SCALE: 1/4" = 1'-0"

- PLAN NOTES:**
- SEE SHEET 1001 FOR SITE LOCATION OF EXISTING SLUDGE RETURN PUMP STATION.
 - TOP OF EXISTING FINISH ELEVATION TO MATCH TOP OF EXISTING SLAB ON GRADE, COLUMNS, AND EXISTING, ETC.
-
- ALL FOOTINGS SHALL BE COVERED ON COLUMNS UNLESS NOTED.
 - SEE 1020 FOR GENERAL NOTES.
 - SEE 1021 FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE 1022 FOR TYPICAL FOUNDATION DETAILS AND WITH COMMENTS SEE 8/15/18.
 - COORDINATE SIZE AND LOCATION OF EQUIPMENT AND WITH COMMENTS SEE 8/15/18.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING STRUCTURE INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

	DRAWN BY: ED DESIGNED BY: ED CHECK BY: ED		FOUNDATION PLANS	
	THE INFORMATION CONTAINED HEREIN SHALL BE CONSIDERED REPRESENTATIVE TO THE EXTENT OF THE INFORMATION CONTAINED HEREIN AND NOT BE A CONTRACT DOCUMENT. THE ENGINEER'S LIABILITY SHALL BE LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING STRUCTURE INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.		ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
1310 Pinckney Area Street Philadelphia, Pa 19102 Tel: (215) 371-4500 Fax: (215) 371-8276		HARRISBORO, DELAWARE DATE: 3 SEPT 2015 PROJECT NO.: AP20A SCALE: AS NOTED DWS NO.: 31-01		

NO.	BY	CHKD	APPV	REVISION	DATE
3	ED	ED	ED	AS NOTED	09/28/15
4	ED	ED	ED	ADD COLUMN 8	11/24/15
ED	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



FOUNDATION PLAN - CMAS BLOWER STATION

SCALE: 1/2" = 1'-0"

- NOTES:**
1. CHECK WITH THE SITE LOCATION OF CMAS BLOWER STATION.
 2. TOP OF EXISTING FOOTING ELEVATION = 35.00, FIELD VERIFY.
 3. COLUMN AND FOOTING DET.
- FOOTING MARK DET (SCHEDULE ON S1.01)**
- COLUMN DET**
- BASE PLATE MARK DET (SCHEDULE ON S1.01)**
4. ALL FOOTING SHALL BE COVERED IN COLUMN SCHEDULE NOTES.
 5. SEE S1.01 FOR GENERAL NOTES.
 6. SEE S1.01 AND S1.02 FOR SPECIAL INSPECTION REQUIREMENTS.
 7. SEE S1.01 FOR TYPICAL FOUNDATION DETAILS.
 8. PROVIDE EXIST UNDER PUMPY AND BLISSERS FOR LEAKAGE.
 9. THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

DRAWN BY: ED
 DESIGNED BY: ED
 CHECKED BY: ED

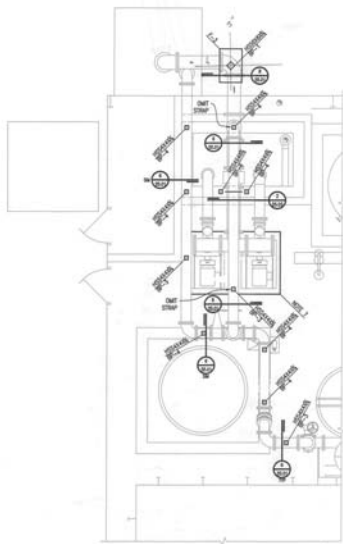
THIS INFORMATION CONTAINED
 HEREIN IS THE PROPERTY OF
 REID ENGINEERING COMPANY, INC.
 AND IS TO BE USED ONLY FOR THE
 PROJECT AND SITE SPECIFICALLY
 IDENTIFIED. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR
 VERIFYING ALL EXISTING
 INFORMATION.

REID ENGINEERING COMPANY, INC.
 1210 Pioneer Area Street
 Farmingtonville, CT 06031
 Tel: (860) 371-8800 Fax: (860) 371-8878

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

BARRINGTON, DELAWARE
 DATE: 3 SEPT 2015 PROJECT NO.: AWGSA
 SCALE: AS NOTED DWG NO.: S1.01A

NO.	BY	CHKD	APPR	REVISION	DATE
4	ED	ED	ED	ADDENDUM 8	11/24/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16

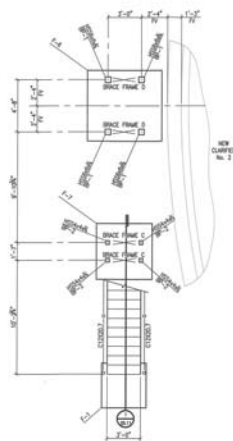


**PARTIAL PLAN - EXISTING DAF
EQUIPMENT BUILDING FOUNDATION**
SCALE: 1/4" = 1'-0"

PLAN NOTES:
1. SEE SHEET M100 FOR SITE LOCATION OF EXISTING DAF EQUIPMENT BUILDING.
2. COLUMN AND FOOTING DETAIL.



- ALL FOOTINGS SHALL BE CASTED ON COLLARS (PLEASE NOTE).
- SEE S2.00 FOR GENERAL NOTES.
- SEE S2.01 AND S2.02 FOR SPECIAL INSPECTION REQUIREMENTS.
- SEE S2.05 FOR TYPICAL FOUNDATION DETAILS.
- CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

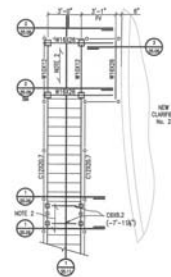


**FOUNDATION PLAN - STAIR AT NEW
CLARIFIER NO. 2**
SCALE: 1/4" = 1'-0"

PLAN NOTES:
1. SEE SHEET M100 FOR SITE LOCATION OF CLARIFIER NO. 2.
2. TOP OF FOOTING ELEVATION = 25.33 UNLESS NOTED.
3. COLUMN AND FOOTING DETAIL.



- ALL FOOTINGS SHALL BE CASTED ON COLLARS (PLEASE NOTE).
- SEE S2.00 FOR GENERAL NOTES.
- SEE S2.01 AND S2.02 FOR SPECIAL INSPECTION REQUIREMENTS.
- SEE S2.05 FOR TYPICAL FOUNDATION DETAILS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



**FRAMING PLAN - STAIR AT NEW
CLARIFIER NO. 2**
SCALE: 1/4" = 1'-0"

PLAN NOTES:
1. SEE SHEET M100 FOR SITE LOCATION OF CLARIFIER NO. 2.
2. TOP OF STRUCTURAL STEEL ELEVATION = 46'-00" UNLESS NOTED (44'-00").
3. 7" DEEP FIBERGLASS GRATING.
4. STRUCTURAL STEEL FRAMING DETAIL.



- SEE S2.00 FOR GENERAL NOTES.
- SEE S2.01 AND S2.02 FOR SPECIAL INSPECTION REQUIREMENTS.
- SEE S2.05 FOR TYPICAL FRAMING DETAILS.
- BRIDGE FRAMES INDICATED ON PLAN ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE S2.08 FOR ELEVATIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



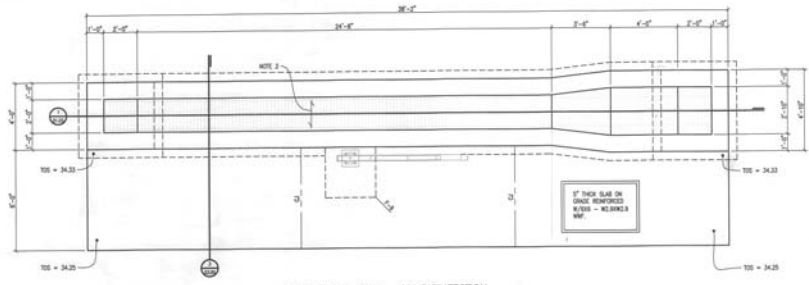
DESIGNED BY: ED
CHECKED BY: ED
DRAWN BY: ED

REID ENGINEERING COMPANY, INC.

1210 Process Arms Street
Fryingburg, Virginia 22949
Tel: (424) 371-8600 Fax: (424) 371-8676

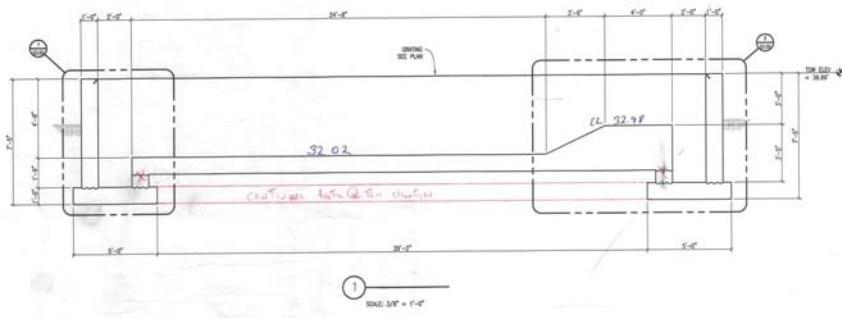
PLANS	
ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
BARBESON	DELAWARE
DATE: 2 SEPT 2015	PROJECT NO.: AWG2A
SCALE: AS NOTED	DWG. NO.: S1.02

NO.	BY	CHKD	APPV	REVISION	DATE
3	ED	ED	ED	AS NOTED	08/28/13
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/14



FOUNDATION PLAN - UV DISINFECTION SYSTEM PLAN
SCALE 1/4" = 1'-0"

- REMARKS**
1. SEE SHEET 2015 FOR SITE LOCATION OF UV DISINFECTION SYSTEM.
 2. 1/2" ALUMINUM CHECKER PL.
 3. SEE SLAB FOR OTHER NOTES.
 4. SEE SEALS AND SLEDS FOR SPECIAL INSPECTION REQUIREMENTS.
 5. 2" AND 4" REINFORCED CONCRECTION JOINT AND CONTROL JOINT IN SLAB ON GRADE. SEE SCHEDULE 8.12.20.0 AND 8.12.20.5.



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

© COPYRIGHT 2015 - REID ENGINEERING COMPANY, INC.

DESIGNED BY: ED
 CHECKED BY: ED
 DRAWN BY: ED

NO. 13469
 REID ENGINEERING COMPANY, INC.
 1210 PINECREAK AVENUE
 FREDERICKSBURG, VA 22407
 TEL: (540) 371-4000 FAX: (540) 371-8578
 E: 547@REID.COM

REID ENGINEERING COMPANY, INC.

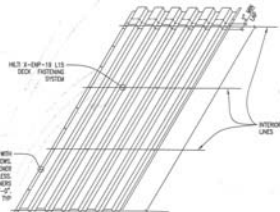
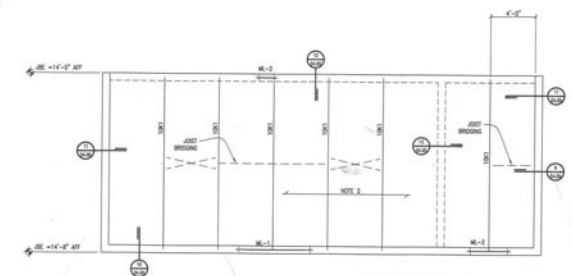
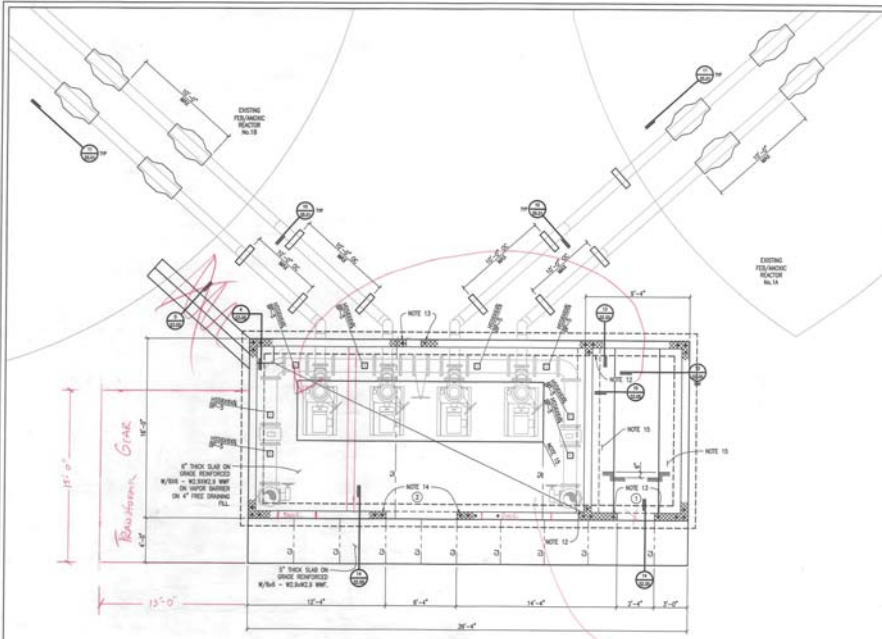
1210 Pinecreek Avenue Street
 Fredericksburg, Virginia 22407
 Tel: (540) 371-4000 Fax: (540) 371-8578

UV DISINFECTION SYSTEM
 FOUNDATION PLAN & SECTION
 ALLEN HARIM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION

BALDERSON, DELAWARE

DATE: 8 SEPT 2015 PROJECT NO.: 14028
 SCALE: AS NOTED DWG NO.: 51.03

NO.	BY	CHKD	APPV	REVISION	DATE
3	ED	ED	ED	AS NOTED	08/28/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



DOOR SCHEDULE	
	PRELUBRICATION DOOR AND FRAME
	PAIR PRELUBRICATION DOORS AND FRAME

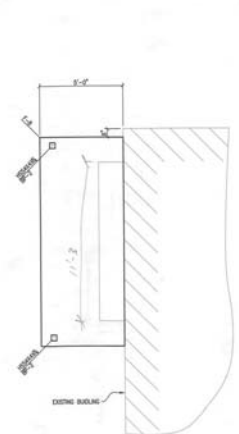
HARDWARE SCHEDULE	
SEE ALL LOCKS & L1	LOCKED, CLOSED, HOLD OPEN, THRESHOLD, WEATHERSTRIP
SEE ALL DOOR AND	LOCKSET, CLOSED, HOLD OPEN, THRESHOLD, WEATHERSTRIP, FLUSH BOLT, STRIKER

- FOUNDATION PLAN**
SCALE: 1/4" = 1'-0"
- PLAN NOTES:**
- SEE SHEET M-101 FOR SITE LOCATION OF REACTOR NO. 1 EFFLUENT PUMP STATION NO. 3.
 - TOP OF SLAB ELEVATION = 41.50' UNLESS NOTED.
 - TOP OF EXTERIOR FOOTING ELEVATION = 42.00' UNLESS NOTED.
 - COLUMNS AS SHOWN.
- FOOTING MARK (SEE SCHEDULE ON SE-101)**
- PLAN NOTES (continued):**
- ALL FOOTINGS SHALL BE CENTERED ON COLUMN UNLESS NOTED.
 - SEE SLOPE FOR GENERAL NOTES.
 - SEE SLOPE & SIZES FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE SLOPE FOR TYPICAL CONNECTION DETAILS.
 - SEE SLOPE FOR TYPICAL CONNECTION DETAILS.
 - CONCRETE WEATHER AND FINISH SHALL BE PART OF THE LATERAL FORCE RESISTING SYSTEM.
 - CL AND WEATHERSTRIP CONSTRUCTION JOINT AND CONTROL JOINT IN SLAB ON GRADE. SEE DETAILS S-101 AND S-102.
 - TURBINE FLOORING SLAB DOWN TO EXTERIOR EXTERIOR FOOTING.
 - PURPOSE 1: ADDITIONAL #8 BAR VERTICAL AT SIZE OF OPENING. GREAT CELL. SLOPE.
 - PURPOSE 2: ADDITIONAL #8 BAR VERTICAL AT SIZE OF OPENING. GREAT CELL. SLOPE.
 - COORDINATE SIZE AND LOCATION OF EQUIPMENT AND WITH EQUIPMENT. SEE S-102.
 - COORDINATE ALL PIPE SUPPORTS WITH PILES. SEE SHEET FOR PIPE LAYOUTS AND SIZES.
 - FILL ALL OPEN CELLS WITH VERMICULITE OR POLYUREA.

- ROOF FRAMING PLAN**
SCALE: 1/4" = 1'-0"
- PLAN NOTES:**
- JOIST FINISH ELEVATION IS NOTED ON PLAN.
 - ROOF FLOOR TO BE OF STEEL W/ 22 GAUGE GALVANIZED METAL DECK.
 - STRUCTURAL STEEL SHALL BE AISC.
- DETAILS:**
- ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
 - SEE SLOPE FOR GENERAL NOTES.
 - SEE SLOPE & SIZES FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE SLOPE FOR TYPICAL CONNECTION DETAILS.
 - COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
 - CONCRETE WEATHER AND FINISH SHALL BE PART OF THE LATERAL FORCE RESISTING SYSTEM.

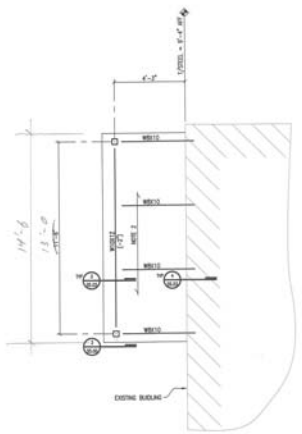
	DRAWN BY: ECD		REACTOR No. 1 EFFLUENT PUMP STATION PLANS
	CHECKED BY: ECD		ALLEN HARM FOODS, LLC
	DATE: 2 SEPT 2015		PHASE ONE
	SCALE: AS NOTED		WASTEWATER TREATMENT SYSTEM
			UPGRADE & EXPANSION
			BARBERS DELAWARE
			PROJECT NO. AH024
			DWG NO. S1.04

NO.	BY	CHKD	APPV	REVISION	DATE
	ED	ED	ED	SOLED FOR CONSTRUCTION	01/08/18



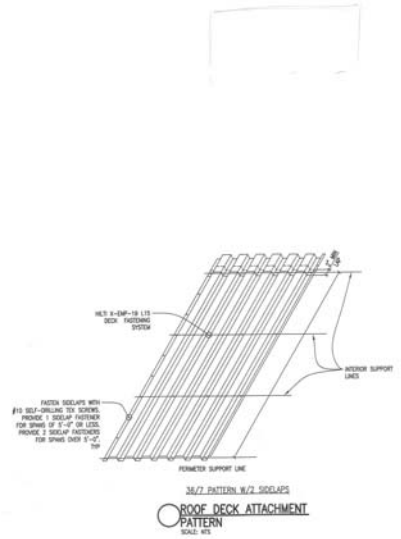
**PARTIAL PLAN - CMAS BASIN
ELECTRICAL CABINETS FOUNDATION**
SCALE: 1/4" = 1'-0"

- PLAN NOTES:**
- SEE EXIST W/DS FOR SITE LOCATION OF ELECTRICAL CABINETS.
 - TOP OF FOOTING TO MATCH EXISTING BUILDING SLAB ON GRADE.
 - COLUMN & FOOTING SEE:
-
- ALL FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED.
 - SEE SLAB FOR GENERAL NOTES.
 - SEE SLAB & BEEL FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE SLAB FOR TYPICAL FOUNDATION DETAILS.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



**PARTIAL PLAN - CMAS BASIN
ELECTRICAL CABINETS ROOF PLAN**
SCALE: 1/4" = 1'-0"

- PLAN NOTES:**
- TOP OF STRUCTURAL STEEL ELEVATION IS SHOWN ON PLAN.
 - W/DS SHALL BE 1/2" DEEP W/DS PER 22 GAGE GALVANIZED METAL DECK CONSTRUCTION. SEE SCHEDULES.
-
- ALL BEAMS ARE SPACED EQUALLY BETWEEN COLUMN LINES UNLESS NOTED.
 - SEE SLAB FOR GENERAL NOTES. APPROXIMATE REQUIREMENTS.
 - SEE SLAB FOR TYPICAL FRAMED DETAILS.
 - COORDINATE SIZE AND LOCATION OF ALL DRAINS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



3/8\"/>

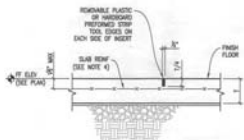
	DRAWN BY: ED		PROJECT NO.:
	DESIGNED BY: ED		ALLEN HARM FOODS, LLC
	CHKD BY: ED		PHASE ONE
REID ENGINEERING COMPANY, INC. 1310 Privates Ards Street Pikesville, MD 21110 Tel: (410) 371-8800 Fax: (410) 371-8878		ELECTRICAL CABINETS - CMAS BASIN FOUNDATION PLAN AND ROOF PLANS WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
DATE: 2 SEPT 2015 SCALE: AS NOTED		PROJECT NO. AN432A SHEET NO. 51.05	

COLUMN FOOTING SCHEDULE					
MAX#	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F-1	4'-0"	4'-0"	2'-0"	#4'S ON	180
F-2	6'-0"	6'-0"	2'-0"	#4'S ON	180
F-3	2'-0"	3'-0"	2'-0"	#4'S ON	180
F-4	2'-0"	4'-0"	2'-0"	#4'S ON	180
F-5	3'-0"	10'-0"	2'-0"	#4'S ON	180
F-6	4'-0"	4'-0"	2'-0"	#4'S ON	180
F-7	4'-0"	3'-0"	2'-0"	#4'S ON	180
F-8	4'-0"	12'-0"	2'-0"	#4'S ON	180
F-9	3'-0"	3'-0"	2'-0"	#4'S ON	180

1 COLUMN FOOTING SCHEDULE

SCALE: NTS

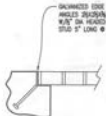
ENGINEER NOTE: SQUARE FOOTINGS TO HAVE REINFORCEMENT DESIGNATED EACH WAY IN REARDED COLUMN. ALSO INDICATE WHETHER BARS ARE ON TOP OR BOTTOM.



- NOTES:
1. ALL JOINTS WITH SLAB AFTER SLAB HAS BEEN CURED.
 2. CONSTRUCTION JOINTS MAY REPLACE CONTROL JOINTS.
 3. SINGLE JOINTS ARE PERMITTED WITH THE APPROVAL OF THE OWNER'S PROJECT MANAGER ONLY, IF APPROVED.
 4. SINGLE JOINTS UNDER A "TWO-CUT" MEMBER OR COLUMN IMMEDIATELY AFTER THICKENED SLAB.
 5. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REIN IN POSITION DURING CONCRETE PLACEMENT.

6 SLAB ON GRADE CONTROL JOINT FOR TYPICAL SLABS

ENGINEER NOTE: 2" STRIP IS AN ACCEPTABLE PRODUCT.



11 STEEL GRATING EMBED ANGLE

SCALE: NTS

COLUMN BASE PLATE SCHEDULE							
MAX#	BASE PLATE SIZE			ANCHOR BOLTS			REMARKS
	WIDTH	LENGTH	THICK	NO.	SIZE	LENGTH	
BP-1	1'-0"	1'-0"	3/4"	4	3/4"	1'-0"	
BP-2	10"	10"	3/4"	4	3/4"	1'-0"	
BP-3	10"	10"	1/2"	2	1/2"	4"	NOTE 1
BP-4	10"	10"	1/2"	4	1/2"	4"	NOTE 1
BP-5	1'-0"	1'-0"	1/2"	4	1/2"	4"	NOTE 1
BP-6	4"	1'-0"	3/4"	4	3/4"	4"	NOTE 1

* LENGTH INDICATED IS MINIMUM DIMENSION

NOTE: 1. EMBED ANCHOR BOLTS INTO CONCRETE

2 COLUMN BASE PLATE SCHEDULE

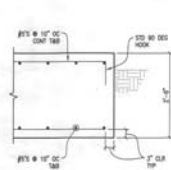
SCALE: NTS

GRADE 60 BARS	CONCRETE STRENGTH, PSI		400
	3000	4000	
TOP BAR	2'-0"	2'-0"	15"
OTHER BAR	2'-0"	1'-0"	1'-0"
TOP BAR	4'-0"	3'-0"	2"
OTHER BAR	2'-0"	2'-0"	2'-0"
TOP BAR	2'-0"	2'-0"	2'-0"
OTHER BAR	2'-0"	2'-0"	2'-0"
TOP BAR	8'-11"	4'-0"	4'-0"
OTHER BAR	2'-0"	2'-0"	2'-0"
TOP BAR	12'-11"	6'-0"	5'-10"
OTHER BAR	1'-0"	1'-0"	1'-0"
TOP BAR	1'-0"	1'-0"	1'-0"
OTHER BAR	2'-0"	1'-0"	1'-0"

- NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE OVER BARS FOR THE BARS.
 2. MINIMUM COVER FOR BARS SPACES 4" OR MORE IS TO BE SPECIFIED IN S.D. DRAWINGS. SEE SECTION FOR LESS THAN 4" SPACING.

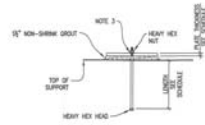
7 CLASS B TENSION LAP SPlice LENGTH FOR BEAM, WALL AND CONCRETE JOIST REINFORCING BARS

SCALE: NTS



12

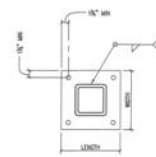
SCALE: 3/4" = 1'-0"



- NOTES:
1. SEE SCHEDULE FOR BOLT SIZE.
 2. LEVEL BASE PLATE WITH FINISH FLOOR. LEVELING PLATE MAY BE USED AT CONTRACTOR'S OPTION WITH ENGINEER'S APPROVAL. THE USE OF LEVELING WITS ARE NOT PERMITTED.
 3. PROVIDE KEYS OF PLATE WIDERS AT ALL UNDESIGNED BUILT UP JOINTS IN TABLE 2.3 OF AISC DESIGN GUIDE 1, 2ND EDITION.

3 BASE PLATE SETTING DETAIL

SCALE: NTS

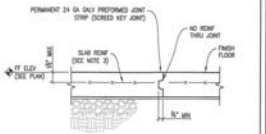


NOTE: SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES.

4 HSS COLUMN BASE PLATE

SCALE: NTS

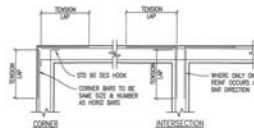
REV.	BY	CHKD	APPV	REVISION	DATE
4	EDJ	EDJ		ADDENDUM #	11/24/15
3	EDJ	EDJ		ISSUED FOR CONSTRUCTION	01/08/16



- NOTES:
1. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.
 2. REFER TO ARCHITECTURAL DETAILS FOR JOINT FILLER BARS REQUIRED.
 3. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REIN IN POSITION DURING CONCRETE PLACEMENT.

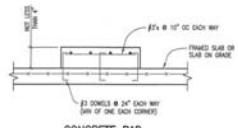
5 SLAB ON GRADE CONSTRUCTION JOINT

SCALE: NTS



8 TYPICAL CORNER BAR DETAIL

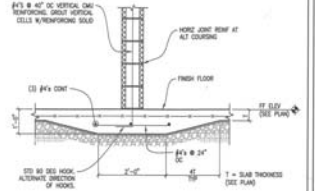
SCALE: NTS



9 CONCRETE PAD FOR EQUIPMENT

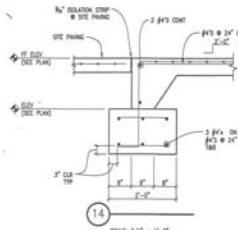
SCALE: 3/4" = 1'-0"

- NOTE: VERIFY ALL BARS AND PAD LOCATION, DIMENSIONS, AND ADJUST WITH THE ARCHITECT, ENGINEER, AND THE GENERAL CONTRACTOR'S REQUIREMENTS. MECHANICAL ENGINEER TO VERIFY SOLUTIONS ONLY.



10 INTERIOR MASONRY WALL ON THICKENED SLAB

SCALE: NTS



14

SCALE: 3/4" = 1'-0"



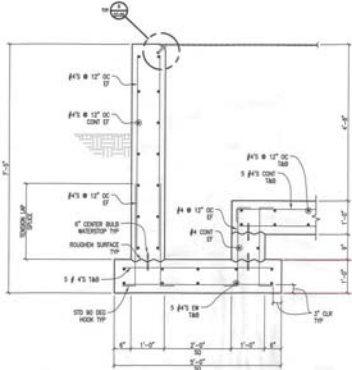
SCALE: 3/4" = 1'-0"

REID ENGINEERING COMPANY, INC.

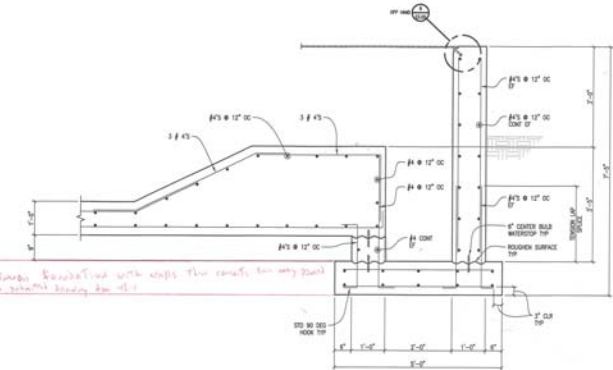
1215 Pittman Avenue Street
Falls Church, Virginia 22041
Tel: (703) 571-8800 Fax: (703) 571-8878

TYPICAL FOUNDATION DETAILS
ALLEN HARIM FOODS, LLC
PHASE ONE
WASTEWATER TREATMENT SYSTEM
UPGRADE & EXPANSION
BARBERSBORO, DELAWARE
DATE: 2 SEPT 2015 PROJECT NO. AHSSA
SCALE: AS NOTED DWG NO. 52.00

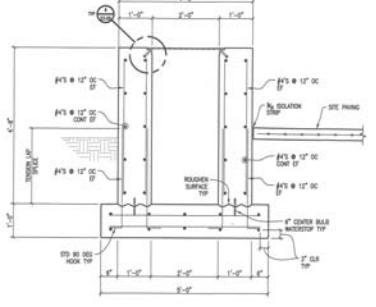
NO.	BY	CHKD	APPROV	REVISION	DATE
3	ED	ED	ED	AS NOTED	06/28/15
ED	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



1
SCALE: 3/4" = 1'-0"

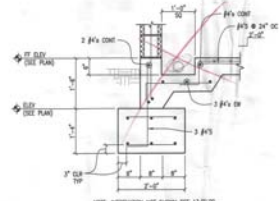


2
SCALE: 3/4" = 1'-0"

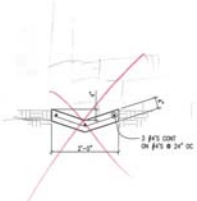


3
SCALE: 3/4" = 1'-0"

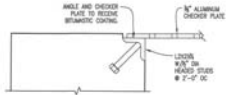
condition: Reinforced with wraps. The counts for any bars at the bottom heading are 4:1



4
SCALE: 3/4" = 1'-0"



5
SCALE: 3/4" = 1'-0"



6
SCALE: 3/4" = 1'-0"

© COPYRIGHT 2015 - REID ENGINEERING COMPANY, INC.

DESIGNED BY:	ED
CHECKED BY:	ED
DATE:	ED

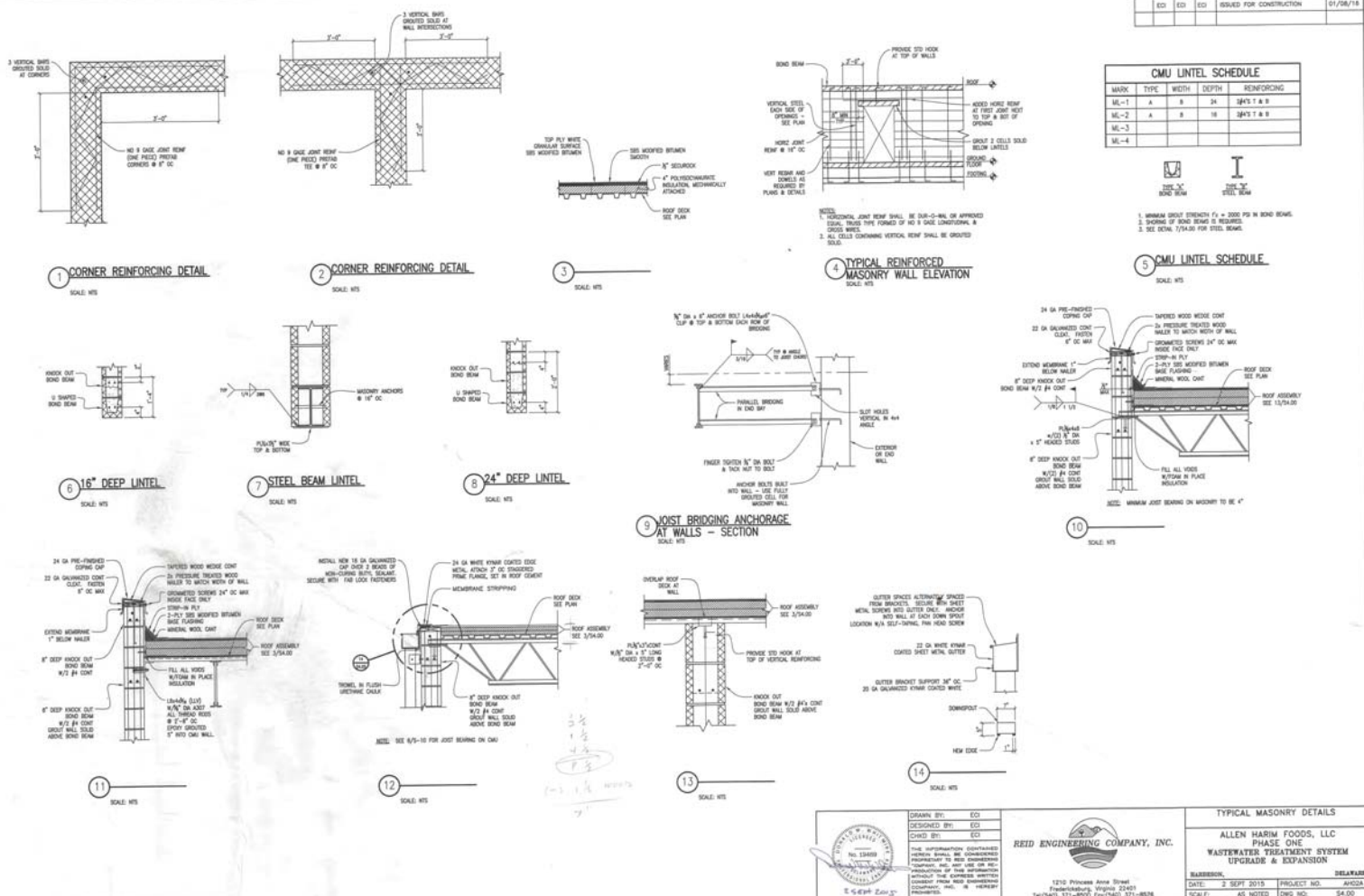
REID ENGINEERING COMPANY, INC.
1210 Pikeview Ave Street
Indianapolis, Indiana 46201
Tel: (317) 271-8800 Fax: (317) 271-8876

CONCRETE DETAILS	
ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
BARRBROOK, DELAWARE	
DATE: 2 SEPT 2015	PROJECT NO.: AW22A
SCALE: AS NOTED	DWG. NO.: 63.00

NO.	BY	CHKD	APPR	REVISION	DATE
ECI	ECI	ECI	ECI	ISSUED FOR CONSTRUCTION	01/08/18

MARK	TYPE	WIDTH	DEPTH	REINFORCING
ML-1	A	8	24	3#4 T & B
ML-2	A	8	18	3#4 T & B
ML-3				
ML-4				

- MINIMUM GROUT STRENGTH $f'_c = 2000$ PSI IN BOND BEAM.
- SPACING OF BOND BEAMS IS REQUIRED.
- SEE BOND BEAM TYPE FOR STEEL BEAM.



© COPYRIGHT 2015 - REID ENGINEERING COMPANY, INC.

DRAWN BY: ECI
 CHECKED BY: ECI
 DESIGNED BY: ECI
 PROJECT NO.: 1711-11-18
 DATE: 01/08/18
 SCALE: AS NOTED

REID ENGINEERING COMPANY, INC.
 1210 Phoenix Area Blvd
 Fredericksburg, Virginia 22401
 Tel: (540) 571-8800 Fax: (540) 571-8876

TYPICAL MASONRY DETAILS
 ALLEN HARIM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION
 BARBERSBURG, MD
 DATE: 2 SEPT 2015 PROJECT NO.: 1711-11-18
 SCALE: AS NOTED DWG. NO.: 54.00

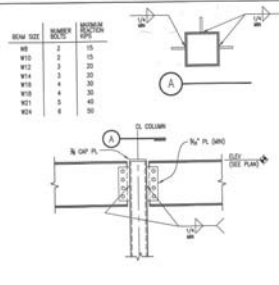
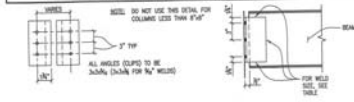
NOTES: DETAILING OF STRUCTURAL STEEL CONNECTIONS MUST BE CONSISTENT WITH REVISIONS, PUBLISHED SPECIFICATIONS SUCH AS IN THE AISC "CONNECTIONS" MANUAL.

1. STRUCTURAL STEEL CONNECTIONS HAVE BEEN DETAILING AND CHECKED BY THE ENGINEER AND APPROVED AS SHOWN ON THESE PLANS AND ACCOMPANYING GENERAL NOTES.

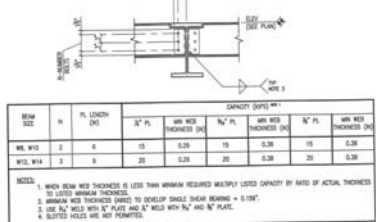
2. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR ONLY IF ACCOMPANIED BY COMPLETE CALCULATIONS, PROJECT'S APPROVED SPECIFICATIONS, AND A CHECKED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SHOP DRAWINGS FOR REVIEW CONSIDERED AS SHOP DRAWING DETAILING ERRORS AND WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL.

3. CALCULATIONS FOR DETAILS MUST BE BASED ON A COMPLETE LOAD FROM INCLUDING LOADS FROM ALL ADJACENT WALLS, BRACKETS, WALLS, ROOF, ETC. AFFECTING ALL CONNECTIONS.

TOTAL NUMBER OF BEAMS IN CLIPS	MINIMUM CONNECTION ON BEAM	MAXIMUM CONNECTION ON BEAM	N' ON BEAM CAPACITY (KIPS)		E70xx WELD CAPACITY (KIPS)				
			AS205-N	AS225-N	3/8"	1/2"	5/8"	3/4"	
2	W16x10	W16x10	18.8	22.7	18.8	22.8	24.0	30.3	31.8
4	W16x10x1/2	W16x10	27.2	45.4	27.1	33.8	40.3	51.1	51.8
6	W16x10x1/4	W16x10	35.8	68	35.3	43.8	52.7	65.1	65.8
8	W16x10x1/8	W16	74.4	91	72.7	82.8	97.6	121	121.8
10	W16x10	W16	83.0	112	80.7	92.8	110	137	140.8
12	W16x10	W16	112	136	104	120	137	170	174.8



NO.	BY	CHKD	APPR	REVISION	DATE
1	ECJ	ECJ	ECJ	AS NOTED	08/23/15
2	ECJ	ECJ	ECJ	ISSUED FOR CONSTRUCTION	01/08/16

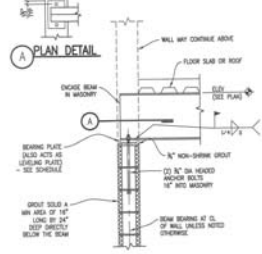
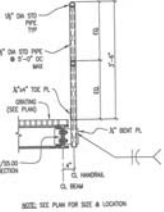
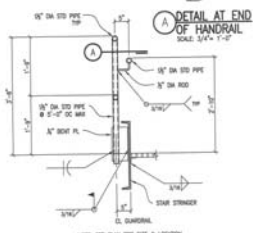
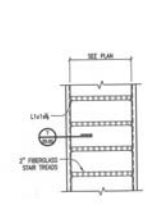
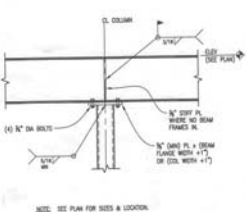


1 CONNECTION DETAIL NOTES
STRUCTURAL STEEL
SCALE: NTS

2 TYPICAL FRAMED BEAM CONNECTIONS
SCALE: NTS

3 BEAM TO HSS COLUMN CONNECTION
SCALE: NTS

4 SINGLE PLATE SHEAR CONNECTION
SCALE: NTS



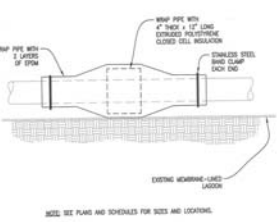
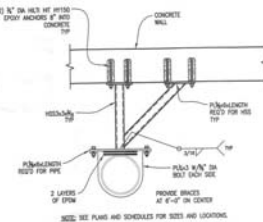
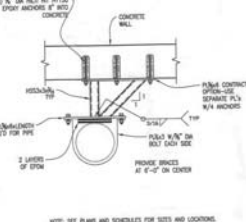
5 BEAM OVER W COLUMN CONNECTION
SCALE: NTS

6 STAIR DETAIL
SCALE: 3/4" = 1'-0"

7 HANDRAIL OR STAIR STRINGER
SCALE: NTS

8 HANDRAIL CONNECTION
SCALE: 3/4" = 1'-0"

9 BEAM BEARING DETAIL PERPENDICULAR TO WALL
SCALE: NTS



10 PLAN DETAIL - PIPE BRACE AT CONCRETE WALL - SINGLE PLATE
SCALE: NTS

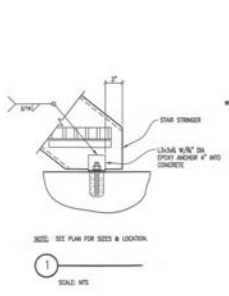
11 PLAN DETAIL - PIPE BRACE AT CONCRETE WALL - 2 PLATES
SCALE: NTS

12 PIPE WRAP AT EXISTING LAGOON
SCALE: NTS

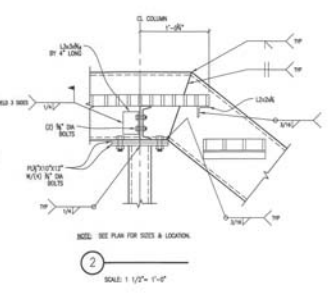
	DRAWN BY: ECJ		TYPICAL FRAMING DETAILS	
	DESIGNED BY: ECJ		ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
	CHKD BY: ECJ		BARBORN, DELAWARE DATE: 2 SEPT 2015 PROJECT NO.: ANCOA SCALE: AS NOTED DWG NO.: 95.00	

REID ENGINEERING COMPANY, INC.
1310 Peachtree Avenue Street
Farmingdale, Virginia 22027
Tel: (540) 371-8500 Fax: (540) 371-8676

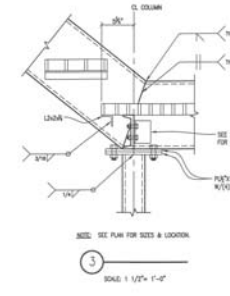
NO.	BY	CHKD	APPV	REVISION	DATE
ED	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



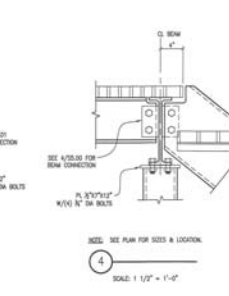
NOTE: SEE PLAN FOR SIZES & LOCATION.
 1
 SCALE: NTS



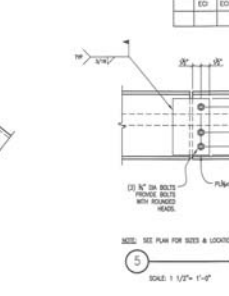
NOTE: SEE PLAN FOR SIZES & LOCATION.
 2
 SCALE: 1 1/2\"/>



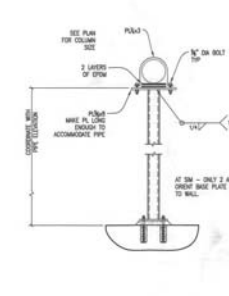
NOTE: SEE PLAN FOR SIZES & LOCATION.
 3
 SCALE: 1 1/2\"/>



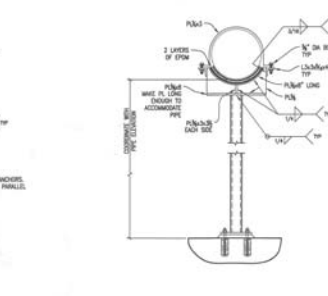
NOTE: SEE PLAN FOR SIZES & LOCATION.
 4
 SCALE: 1 1/2\"/>



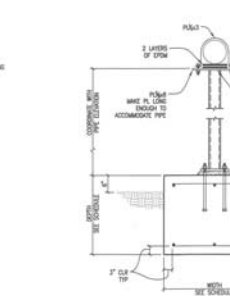
NOTE: SEE PLAN FOR SIZES & LOCATION.
 5
 SCALE: 1 1/2\"/>



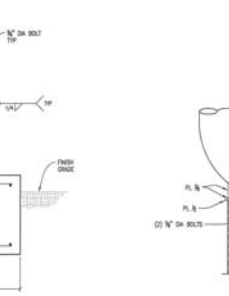
NOTE: SEE PLANS AND SCHEDULES FOR SIZES AND LOCATIONS.
 6
 TYPICAL SINGLE COLUMN PIPE SUPPORT FOR PIPES 12\"/>



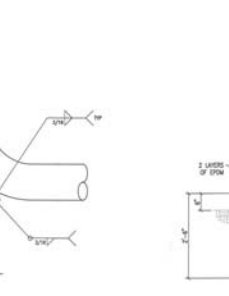
NOTE: SEE PLANS AND SCHEDULES FOR SIZES AND LOCATIONS.
 7
 TYPICAL SINGLE COLUMN PIPE SUPPORT FOR PIPES OVER 12\"/>



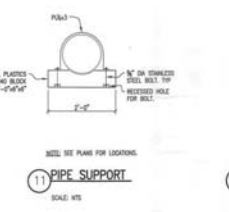
NOTE: SEE PLANS AND SCHEDULES FOR SIZES AND LOCATIONS.
 8
 SINGLE COLUMN PIPE SUPPORT FOR PIPES 12\"/>



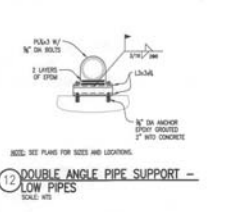
NOTE: SEE PLANS AND SCHEDULES FOR SIZES AND LOCATIONS.
 9
 PIPE SUPPORT AT ELBOW
 SCALE: NTS



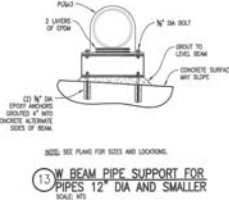
NOTE: SEE PLANS FOR LOCATIONS.
 10
 CONCRETE PIPE SUPPORT FOR PIPES OVER 12\"/>



NOTE: SEE PLANS FOR LOCATIONS.
 11
 PIPE SUPPORT
 SCALE: NTS



NOTE: SEE PLANS FOR SIZES AND LOCATIONS.
 12
 DOUBLE ANGLE PIPE SUPPORT - LOW PIPES
 SCALE: NTS

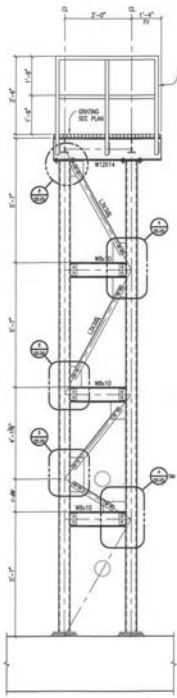


NOTE: SEE PLANS FOR SIZES AND LOCATIONS.
 13
 I-BEAM PIPE SUPPORT FOR PIPES 12\"/>

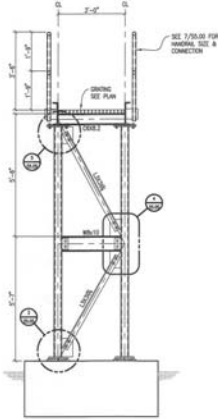
DESIGNED BY: ECI
 CHECKED BY: ECI
 DRAWN BY: ECI
 REID ENGINEERING COMPANY, INC.
 1215 Pittman Drive Street
 Fredericksburg, Virginia 22401
 Tel: (804) 371-8800 Fax: (804) 371-8878

FRAMING DETAILS
 ALLEN HARIM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION
 BARBERSON, DELAWARE
 DATE: 2 SEPT 2015 PROJECT NO. AH02A
 SCALE: AS NOTED DWS NO: 35.01

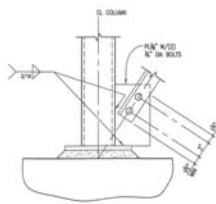
NO.	BY	CHKD	APPR	REVISION	DATE
4	ED	ED	ED	ADDENDUM B	11/24/15
ED	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/06/16



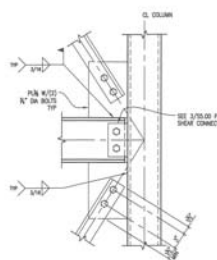
1 BRACE FRAME B
SCALE: 1/2" = 1'-0"



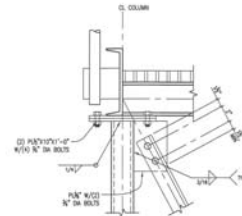
2 BRACE FRAME A
SCALE: 1/2" = 1'-0"



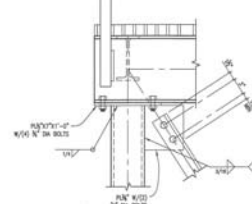
3
SCALE: 1/2" = 1'-0"



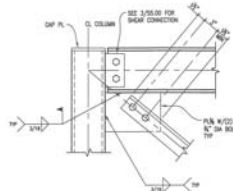
4
SCALE: 1/2" = 1'-0"



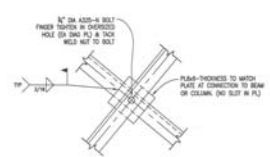
5
SCALE: 1/2" = 1'-0"



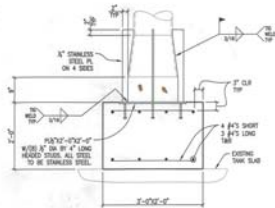
6
SCALE: 1/2" = 1'-0"



7
SCALE: 1/2" = 1'-0"



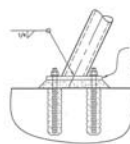
8 X-BRACING INTERSECTION (ANGLE DIAGONALS)
SCALE: 1/2" = 1'-0"



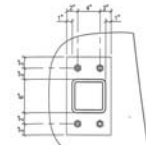
9
SCALE: 1/2" = 1'-0"



10
SCALE: 1/2" = 1'-0"



11
SCALE: 1/2" = 1'-0"



12
SCALE: 1/2" = 1'-0"

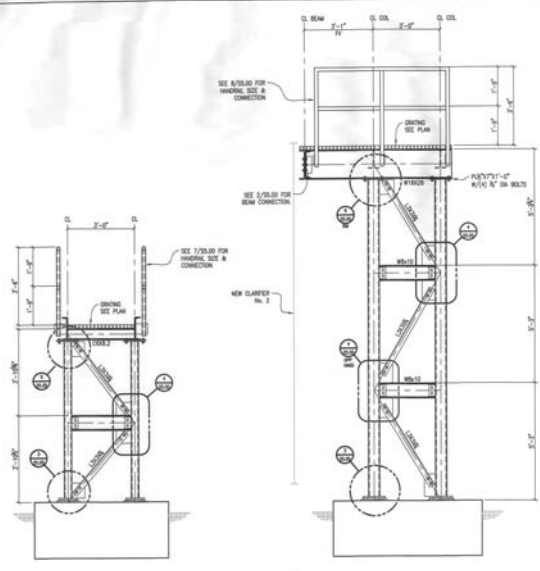
DESIGNED BY: ED
 CHECKED BY: ED
 DRAWN BY: ED

REID ENGINEERING COMPANY, INC.
 1210 Pittman Ave Street
 Pittsburgh, PA 15201
 Tel: (412) 371-8000 Fax: (412) 371-8076

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

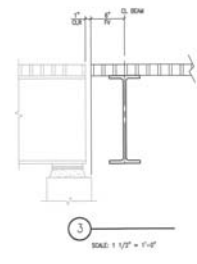
DATE: 2 SEPT 2015 PROJECT NO.: ANCSA
 SCALE: AS NOTED DWG NO.: 55.05

NO.	BY	CHECK	APPROV	REVISION	DATE
3	ED	ED	ED	AS NOTED	06/20/15
4	ED	ED	ED	ADD COLUMN &	11/24/15
5	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16

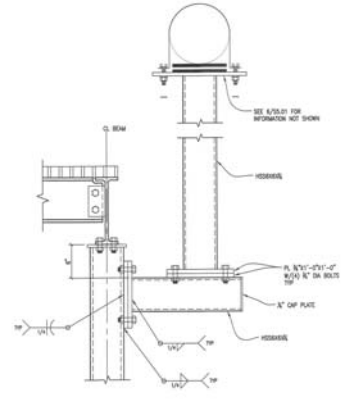


1 BRACE FRAME C
SCALE: 1/2" = 1'-0"

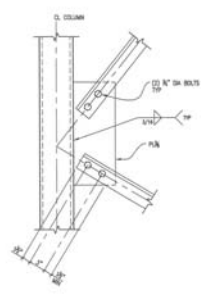
2 BRACE FRAME D
SCALE: 1/2" = 1'-0"



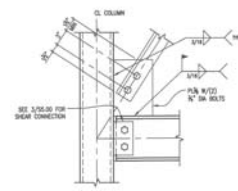
3
SCALE: 1/2" = 1'-0"



4 PIPE SUPPORT AT CATWALK
SCALE: 1/2" = 1'-0"



5
SCALE: 1/2" = 1'-0"



6
SCALE: 1/2" = 1'-0"

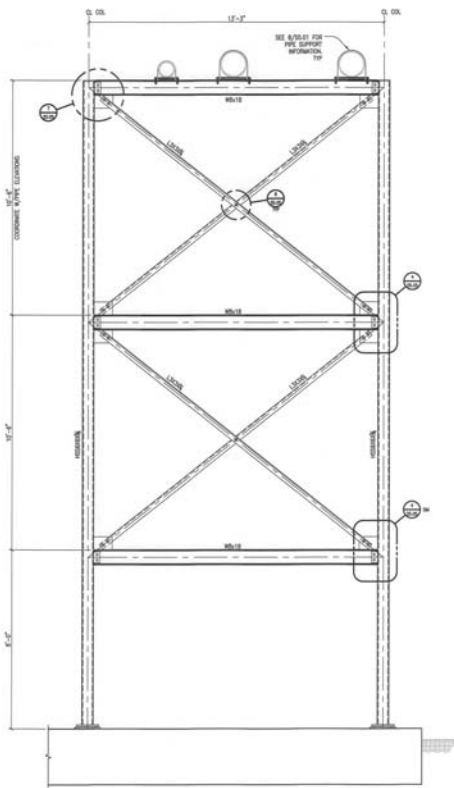
© COPYRIGHT 2015 - REID ENGINEERING COMPANY, INC.

DESIGN BY: ED
 DESIGNED BY: ED
 CHECK BY: ED
 No. 13889
 E. S. REID ENGINEERING

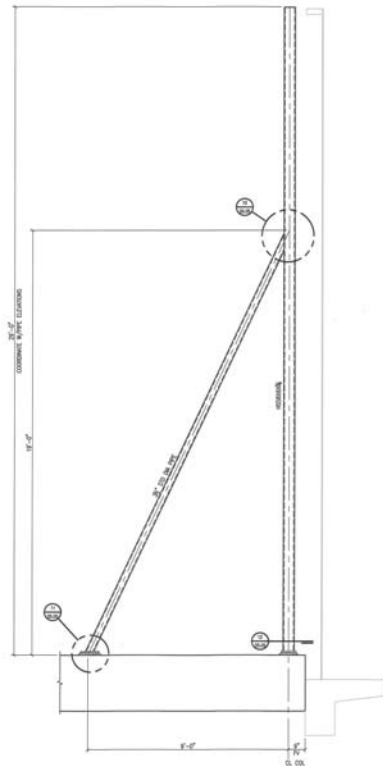
REID ENGINEERING COMPANY, INC.
 1210 Pikeview Annex Street
 Fredericktown, Virginia 22630
 Tel: (540) 371-8007 Fax: (540) 371-8578

BRACE FRAME ELEVATIONS
 ALLEN HARIM FOODS, LLC
 PHASE ONE
 WASTEWATER TREATMENT SYSTEM
 UPGRADE & EXPANSION
 DATE: 2 SEPT 2015 PROJECT NO. 14003
 SCALE: AS NOTED DWG NO. 55.06

NO.	BY	CHKD	APPV	REVISION	DATE
3	ED	ED	ED	AS NOTED	08/28/15
4	ED	ED	ED	ADDENDUM 6	11/24/15
	ED	ED	ED	ISSUED FOR CONSTRUCTION	01/08/16



1 BRACE FRAME E
SCALE: 1/4" = 1'-0"



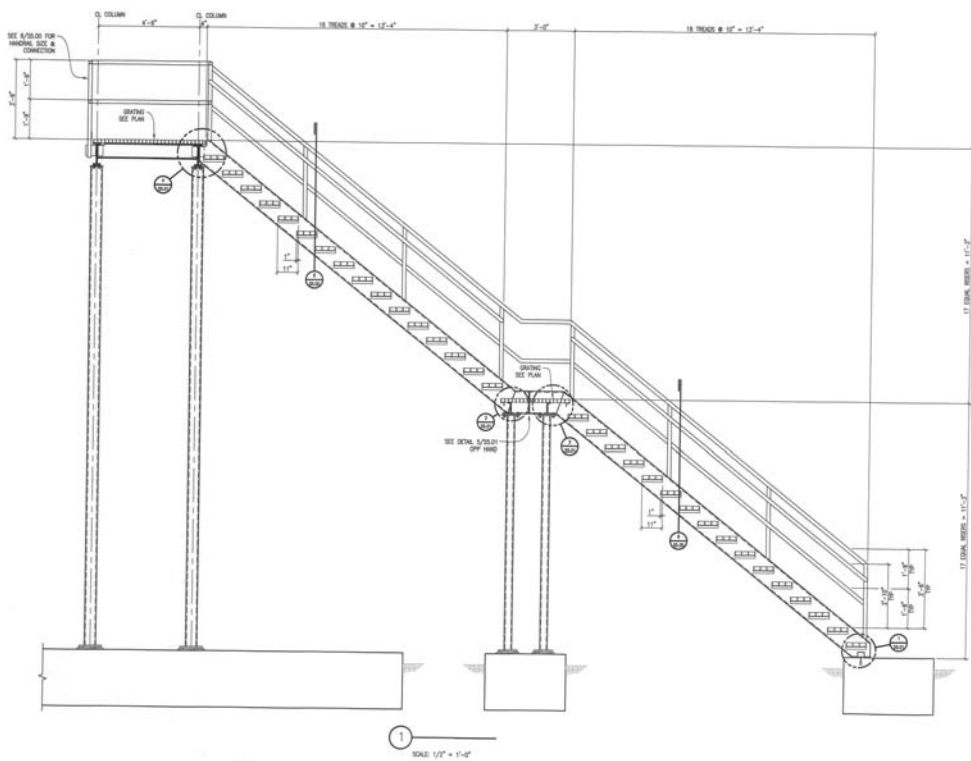
2 BRACE FRAME F
SCALE: 1/4" = 1'-0"



REID ENGINEERING COMPANY, INC.
1210 PINEHURST AVENUE STREET
GREENSBORO, VIRGINIA 22421
Tel: (304) 371-6500 Fax: (304) 371-6576

FOUNDATION PLAN	
ALLEN HARIM FOODS, LLC PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
BARBOSON	DELAWARE
DATE: 24 NOV 2015	PROJECT NO: 0402A
SCALE: AS NOTED	DWG. NO.: 05-07

NO.	BY	CHKD	APPV	REVISION	DATE
	ED	ED	ED	ISSUED FOR CONSTRUCTION	07/08/18



© COPYRIGHT 2015 - REID ENGINEERING COMPANY, INC.

	DESIGN BY: ED	REID ENGINEERING COMPANY, INC. 1310 Pinchase Area Street Fredericksburg, Virginia 22401 Tel: (540) 371-8800 Fax: (540) 371-8878	DAF PRETREATMENT SYSTEM FEB STAIR ELEVATION	
	DESIGNED BY: ED		ALLEN HARIM FOODS, LLC	
	CHKD BY: ED		PHASE ONE WASTEWATER TREATMENT SYSTEM UPGRADE & EXPANSION	
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, WITHOUT THE EXPRESS WRITTEN PERMISSION OF REID ENGINEERING COMPANY, INC.		BARBERSKOP DATE: 2 SEPT 2015 SCALE: AS NOTED	BELMARE PROJECT NO. A4524 DWG NO. 55.10	