



Formerly P.C. Simonton & Associates, Inc.

Addendum No. Two

Date: August 4, 2020
Project: Floquip Drainage Project, MES No. 2020-14
Engineer: M.E. Sack Engineering
Hinesville, Georgia



The original plans and bid documents are amended to include the following:

Bid Items:

- Replace the previous Bid Items, P-2, with the enclosed Bid Items. Note the following revisions:
 - Revised Cut/Fill estimated quantity
 - Revised 10" PVC Water Main estimated quantity
 - Removed 10" RPZ
 - Included 8" RPZ
 - Included 6" RPZ
 - Revised 10" Gate Valve estimated quantity
 - Revised 6" Gate Valve estimated quantity
 - Added Alternate Bid

Plans:

- Replace Cover Sheet, C101, C200 through C202 and C301, in the original plans. Note the following revisions:
 - Cover Sheet sheet index has been updated per Sheet C101 being renamed Grading/Utility Plan.
 - RPZ detail added to sheet C301
 - Erosion Control Limits of Disturbance have been revised to include all proposed work.
 - Water system connections have been revised on sheet C101.
 - Water Connection Schematic detail has been added to sheet C101.
 - Concrete Valve Collar Detail has been added to sheet C101.

-END-

**AD6 Drainage Project
for
FLOQUIP**

Bid Items

Item No.	Estimated Quantity	Units	Description	Unit Price	Total Price
1	82	SY	Asphalt/ Base Removal		
2	442	SY	8" Graded Aggregate Base		
3	442	SY	2" 9.5mm Superpave Asphalt		
4	49,925	SY	10" Recycled Concrete Drive (Graded Base)		
5	10	EA	Flared End Section		
6	7	EA	4'x4' Grate Inlet		
7	3	EA	4'x4' Junction Box		
8	4	EA	8.5'x4' Grate Inlet		
9	3	EA	8.5'x4' Junction Box		
10	1	EA	Outlet Control Structure		
11	138	LF	18" Reinforced Concrete Pipe		
12	750	LF	24" Reinforced Concrete Pipe		
13	2090	LF	30" Reinforced Concrete Pipe		
14	868	LF	36" Reinforced Concrete Pipe		
15	1	LS	Final Grading		
16	7,398	CY	Cut/Fill		
17	15,722	CY	Haul Off		
18	1	EA	Connect To Existing Waterline		
19	720	LF	8" PVC Watermain		
20	151	LF	10" PVC Watermain		
21	1	EA	Water Vault		
22	1	EA	6" RPZ		
23	1	EA	8" RPZ		
24	1	EA	10" Meter		
25	1	EA	10" Gate Valve		
26	3	EA	8" Gate Valve		
27	3	EA	6" Gate Valve		
28	1	TN	Ductile Iron Fittings		
29	1	LS	Erosion Control		
30	1	LS	Grassing		
31	1	LS	Structure Relocation		
32	1	LS	Clearing & Grubbing		
33	1	LS	Electrical Complete		
34	1	LS	Mobilization (5% Max)		
				Total Bid	
				Alternate Bid	
1	7,398	CY	Select Fill*		
2	23,120	CY	Haul Off*		
				Total Bid	

*If chosen, the Alternate will affect base bid

AD6 Drainage Project

@

The City of Riceboro

Liberty County, Georgia

Date: March 2 , 2020

SHEET INDEX:
DESCRIPTION

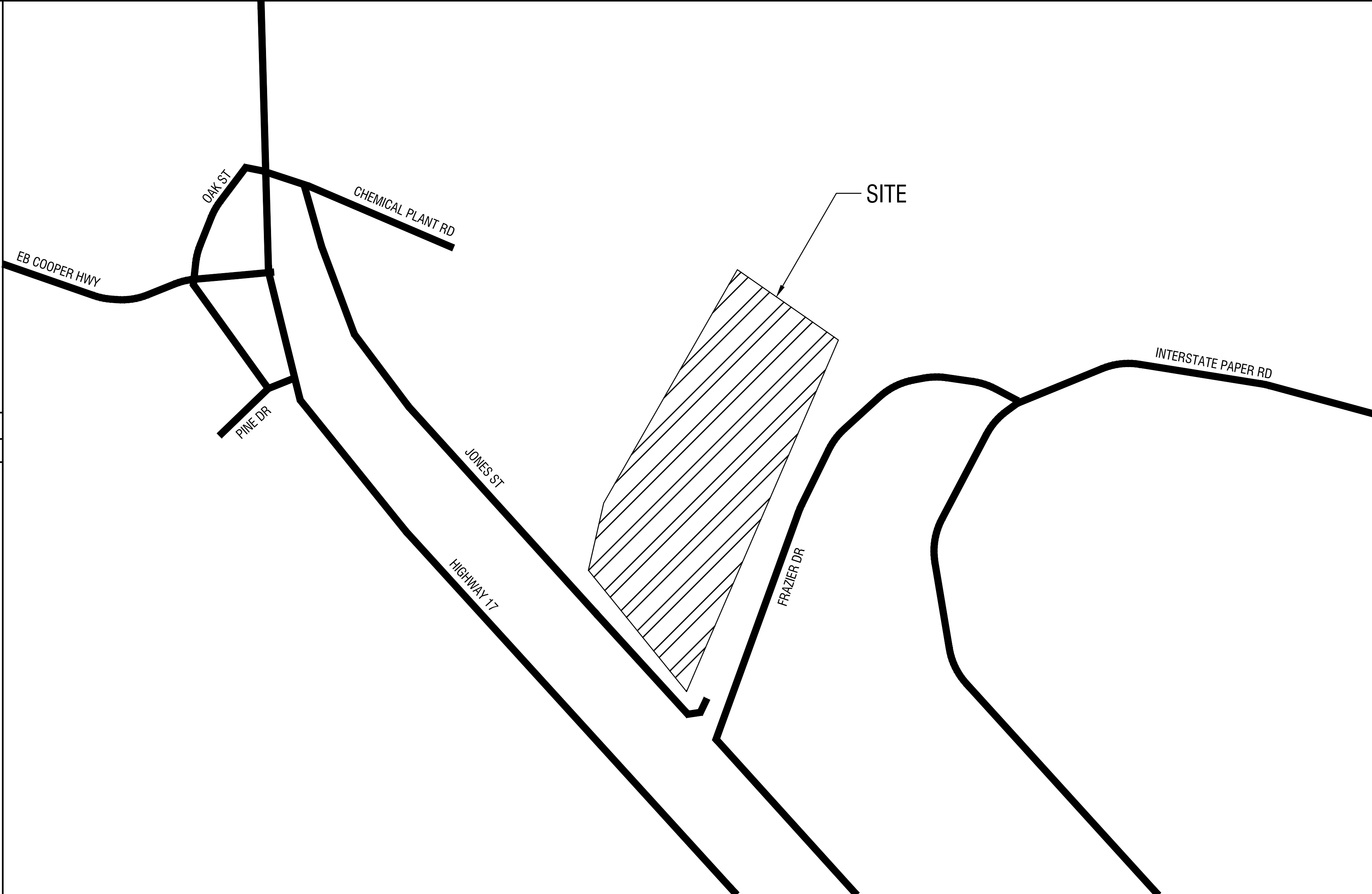
1. DEMOLITION PLAN
2. GRADING/UTILITY PLAN
3. STORM PROFILES
4. EROSION CONTROL PLAN
5. EROSION NOTES
6. DETAILS
7. PRE-BASIN MAP
8. POST BASIN MAP

SHEET

- SHEET C100
SHEET C101
SHEET C101- C103
SHEET C200-202
SHEET C203
SHEET C300-301
SHEET C400
SHEET C401

DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	—W—	—SS—
UNDERGROUND WATER LINE	—W—	—W—
FORCE MAIN	—FM—	—FM—
STORM DRAINAGE PIPE	—T—	—T—
UNDERGROUND TELEPHONE LINE	—TC—	—TC—
UNDERGROUND TELEPHONE CONDUIT	—12"G—	—12"G—
UNDERGROUND GAS LINE	—X=90.00	—X=90.00
DITCH CENTERLINE	—TC=90.00	—TC=90.00
SPOT ELEVATION	—X=90.00	—X=90.00
TOP OF CURB ELEVATION	—TC=90.00	—TC=90.00
FIRE HYDRANT	—X=90.00	—X=90.00
SEWER MANHOLE	—X=90.00	—X=90.00
WATER VALVE	—X=90.00	—X=90.00
TELEPHONE MANHOLE	—X=90.00	—X=90.00
LIGHT POLE	—X=90.00	—X=90.00
SIGN	—X=90.00	—X=90.00
WATER METER	—X=90.00	—X=90.00
BENCHMARK	—X=90.00	—X=90.00
CONCRETE MONUMENT FOUND	—X=90.00	—X=90.00
GUY POLE	—X=90.00	—X=90.00
IRON PIN FOUND	—X=90.00	—X=90.00
IRON PIN SET	—X=90.00	—X=90.00
TELEPHONE PEDESTAL	—X=90.00	—X=90.00
POWER POLE	—X=90.00	—X=90.00
HANDICAP SPACE	—X=90.00	—X=90.00
SEDIMENT BASIN MARKER W/NOTCH	—X=90.00	—X=90.00



VICINITY MAP

Not To Scale



Know what's below.
Call before you dig.

Owner: SNF 1 Chemical Plant Road Riceboro, GA 31323 (912)-884-8754 marketing@snfhc.com	GPS COORDINATES OF CO: 31.737483 -81.432339 DATUM: NAV 88
24 HOUR CONTACT: Gary Ryals 1 Chemical Plant Road Riceboro, GA 31323 (912)-884-8754 garyr@snfhc.com	DESIGN PROFESSIONAL: AUGUST 3, 2020

	515 NORTH MAIN STREET P.O. BOX 649 HINESVILLE, GA 31313 TEL: (912) 368-5212 135 GOSHEN ROAD SUITE 250 RINCON, GA 31326 TEL: (912) 295-2395
--	---

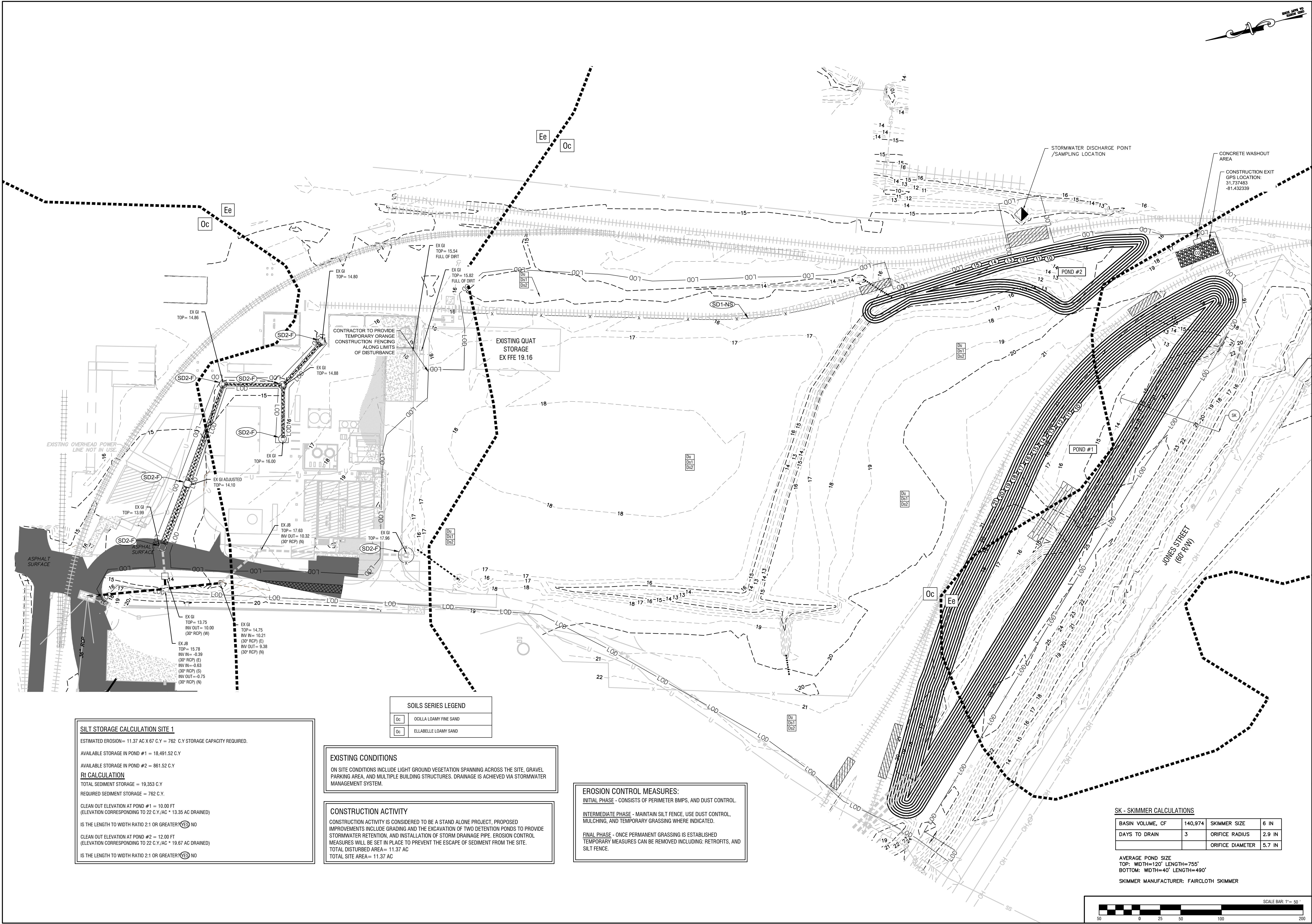
- GENERAL NOTES**
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
 2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
 3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
 5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

JOB NO. 2020-14PRJ

REVISION NO.	DATE	DESCRIPTION

COVER SHEET

PLOT DATE: August 4, 2020



SILT STORAGE CALCULATION SITE 1

ESTIMATED EROSION = 11.37 AC X 67 C.Y. = 762 C.Y. STORAGE CAPACITY REQUIRED.

AVAILABLE STORAGE IN POND #1 = 18,491.52 C.Y.

AVAILABLE STORAGE IN POND #2 = 861.52 C.Y.

Rt CALCULATION

TOTAL SEDIMENT STORAGE = 19,353 C.Y.

REQUIRED SEDIMENT STORAGE = 762 C.Y.

CLEAN OUT ELEVATION AT POND #1 = 10.00 FT
(ELEVATION CORRESPONDING TO 22 C.Y./AC * 13.35 AC DRAINED)

IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER ☒ YES ☐ NO

CLEAN OUT ELEVATION AT POND #2 = 12.00 FT
(ELEVATION CORRESPONDING TO 22 C.Y./AC * 19.67 AC DRAINED)

IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER ☒ YES ☐ NO

EXISTING CONDITIONS

ON SITE CONDITIONS INCLUDE LIGHT GROUND VEGETATION SPANNING ACROSS THE SITE, GRAVEL PARKING AREA, AND MULTIPLE BUILDING STRUCTURES. DRAINAGE IS ACHIEVED VIA STORMWATER MANAGEMENT SYSTEM.

CONSTRUCTION ACTIVITY

CONSTRUCTION ACTIVITY IS CONSIDERED TO BE A STAND ALONE PROJECT. PROPOSED IMPROVEMENTS INCLUDE GRADING AND THE EXCAVATION OF TWO DETENTION PONDS TO PROVIDE STORMWATER RETENTION, AND INSTALLATION OF STORM DRAINAGE PIPE. EROSION CONTROL MEASURES WILL BE SET IN PLACE TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.

TOTAL DISTURBED AREA = 11.37 AC

TOTAL SITE AREA = 11.37 AC

EROSION CONTROL MEASURES:

INITIAL PHASE - CONSISTS OF PERIMETER BMPs, AND DUST CONTROL.

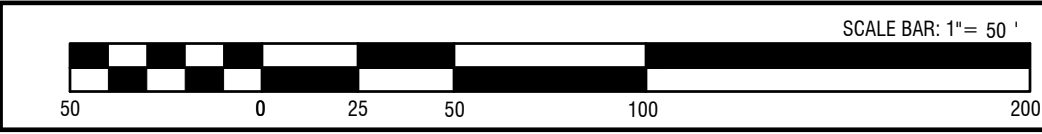
INTERMEDIATE PHASE - MAINTAIN SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.

FINAL PHASE - ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, AND SILT FENCE.

SK - SKIMMER CALCULATIONS			
BASIN VOLUME, CF	140,974	SKIMMER SIZE	6 IN
DAYS TO DRAIN	3	ORIFICE RADIUS	2.9 IN
		ORIFICE DIAMETER	5.7 IN

AVERAGE POND SIZE
TOP: WIDTH=120' LENGTH=755'
BOTTOM: WIDTH=40' LENGTH=490'

SKIMMER MANUFACTURER: FAIRCLOTH SKIMMER



REVISIONS:

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P.C. SIMONTON & ASSOCIATES, INC. AND M.E. SACK ENGINEERING. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT PERMISSION OR A SIGNED AND SEALED DOCUMENT. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE NAMED CLIENT ONLY. IN THE EVENT OF AN ELECTRONIC VERSION OF THIS DRAWING, THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE NAMED CLIENT ONLY. IN THE EVENT OF A DISPUTE, HARD COPIES WILL TAKE PRECEDENCE OVER ANY ELECTRONIC MEDIA.

DESIGN PROFESSIONAL:

MARCUS SACK
GSWCC LEVEL 2 #70248
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINGGOLD, GA 31326
TEL: (912) 295-2395

DATE: AUGUST 3, 2020

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF RICEBORO

COUNTY:
LIBERTY

Owner:
SNF
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
marketing@snfnc.com

24 HOUR CONTACT:
NAME: Gary Ryals
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
garyr@snfnc.com

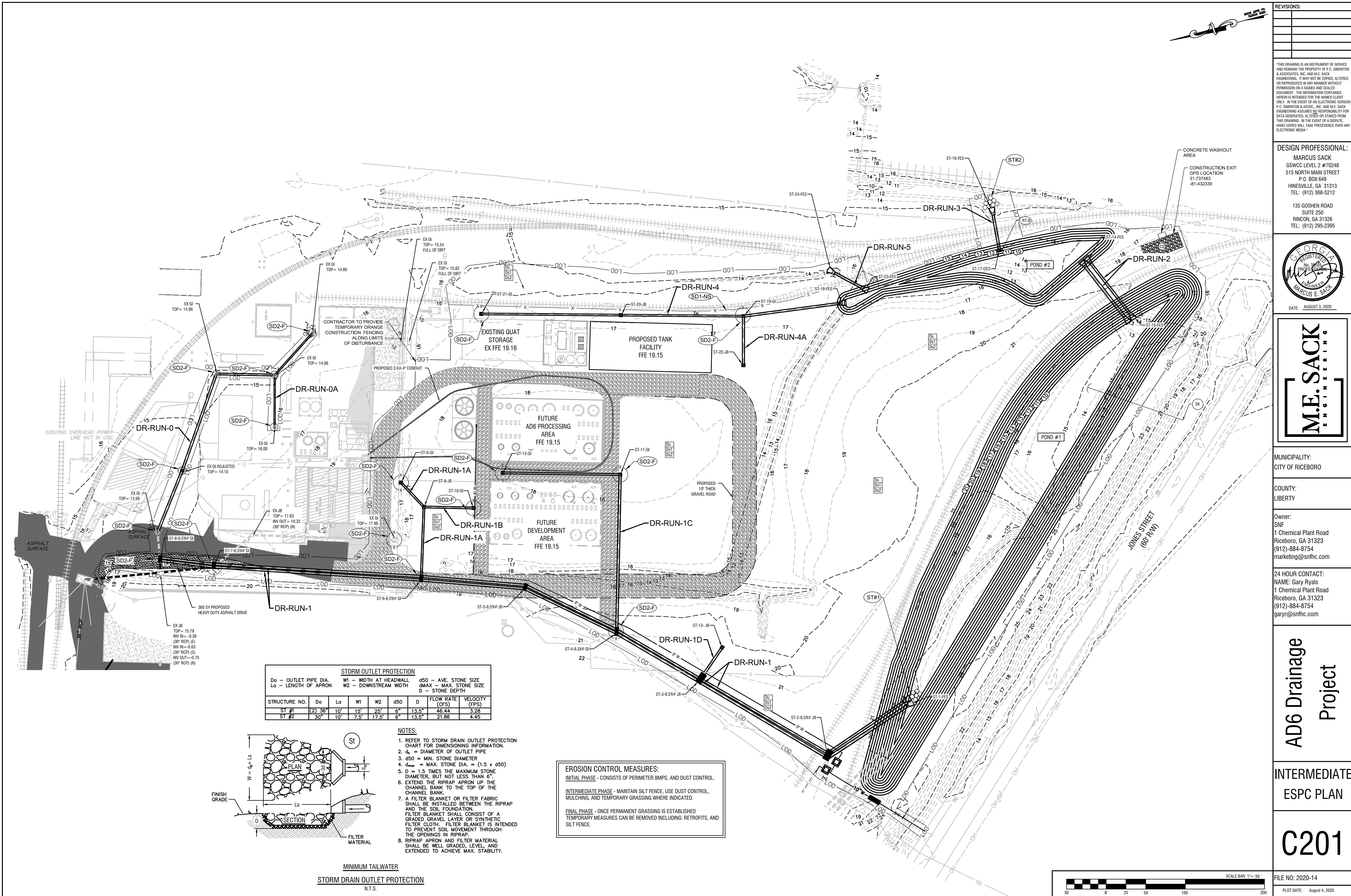
AD6 Drainage Project

INITIAL ESPC PLAN

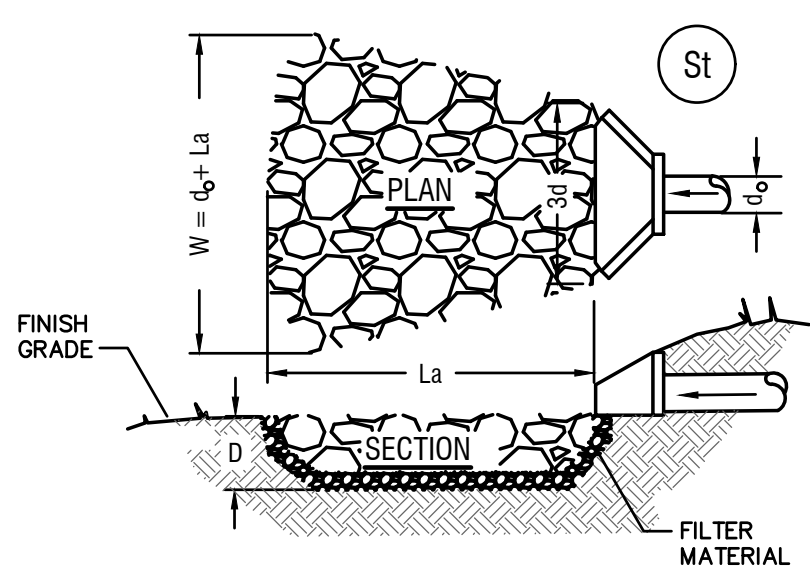
C200

FILE NO: 2020-14

PLOT DATE: August 4, 2020



STORM OUTLET PROTECTION									
Do	= OUTLET PIPE DIA.		W1	= WIDTH AT HEADWALL		d50	= AVE. STONE SIZE		
La	= LENGTH OF APRON		W2	= DOWNSTREAM WIDTH		dmax	= MAX. STONE SIZE		
						D	= STONE DEPTH		
STRUCTURE NO.	Do	La	W1	W2	d50	D	FLOW RATE (CFS)	VELOCITY (FPS)	
ST #1	(2) 36"	10'	15'	25'	6"	13.5"	46.44	3.28	
ST #2	30"	10'	7.5'	17.5'	6"	13.5"	21.86	4.45	



MINIMUM TAILWATER
STORM DRAIN OUTLET PROTECTION
N.T.S.

- NOTES:
1. REFER TO STORM DRAIN OUTLET PROTECTION CHART FOR DIMENSIONING INFORMATION.
 2. d_o = DIAMETER OF OUTLET PIPE
 3. d_{50} = MIN. STONE DIAMETER
 4. d_{max} = MAX. STONE DIA. = $(1.5 \times d_{50})$
 5. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6".
 6. EXTEND THE RIPRAP APRON UP THE CHANNEL BANK TO THE TOP OF THE CHANNEL BANK.
 7. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION. FILTER BLANKET SHALL CONSIST OF A GRADED GRAVEL LAYER OR SYNTHETIC FILTER CLOTH. FILTER BLANKET IS INTENDED TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN RIPRAP.
 8. RIPRAP APRON AND FILTER MATERIAL SHALL BE WELL GRADED, LEVEL, AND EXTENDED TO ACHIEVE MAX. STABILITY.

EROSION CONTROL MEASURES:
INITIAL PHASE - CONSISTS OF PERIMETER BMPs, AND DUST CONTROL.
INTERMEDIATE PHASE - MAINTAIN SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE - ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, AND SILT FENCE.

REVISIONS:

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P.C. SIMONTON & ASSOCIATES, INC. AND M.E. SACK ENGINEERING. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT PERMISSION ON A SIGNED AND SEALED DOCUMENT. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE NAMED CLIENT ONLY. IN THE EVENT OF AN ELECTRONIC VERSION P.C. SIMONTON & ASSOCIATES, INC. AND M.E. SACK ENGINEERING ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPIES WILL TAKE PRECEDENCE OVER ANY ELECTRONIC MEDIA.

DESIGN PROFESSIONAL:

MARCUS SACK
GSWCC LEVEL 2 #70248
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINGCON, GA 31326
TEL: (912) 295-2395

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
MARCUS E. SACK
DATE: AUGUST 3, 2020

M.E. SACK
ENGINEERING

MUNICIPALITY:
CITY OF RICEBORO

COUNTY:
LIBERTY

Owner:
SNF
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
marketing@snfnc.com

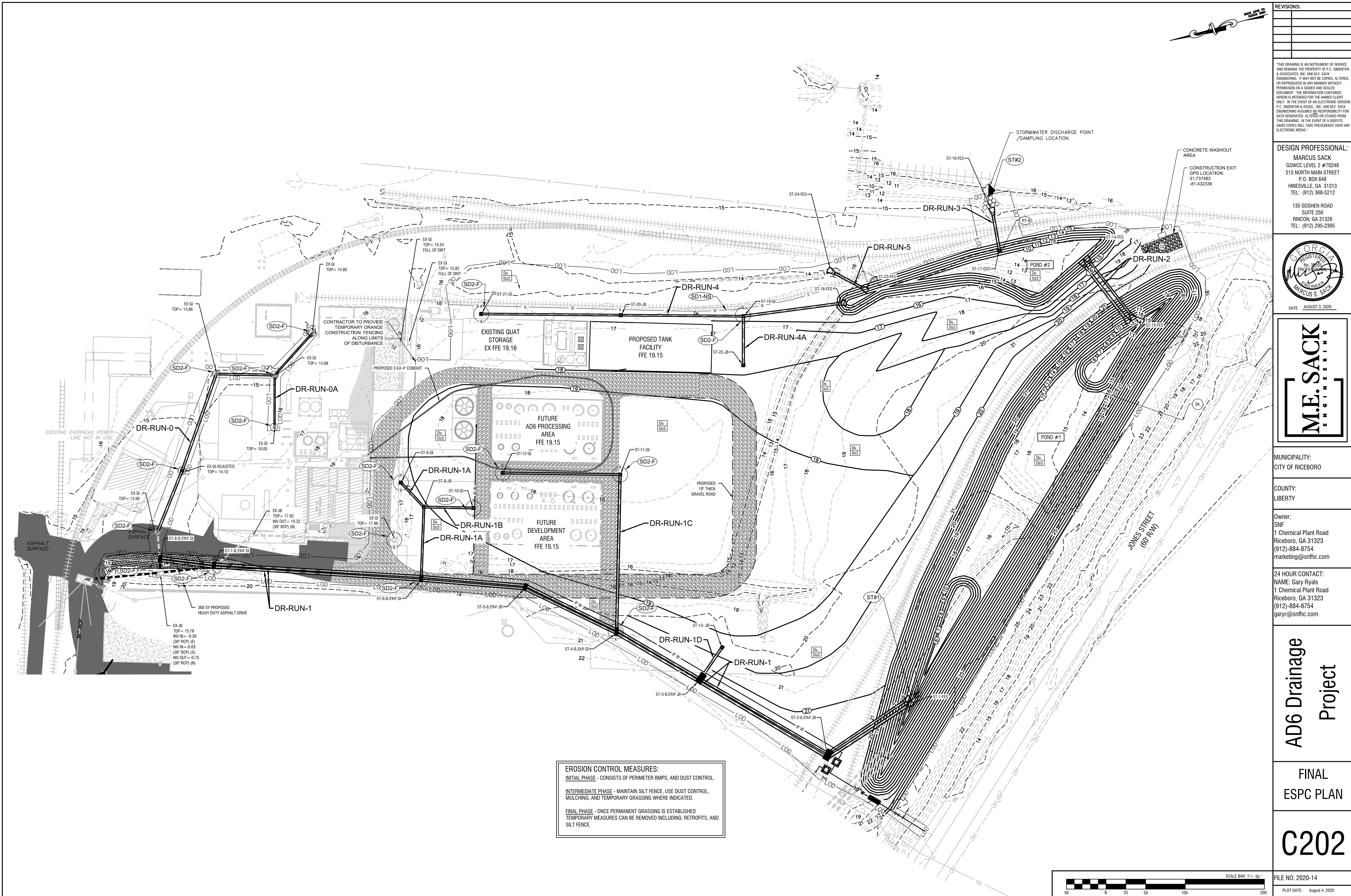
24 HOUR CONTACT:
NAME: Gary Ryals
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
garyr@snfnc.com

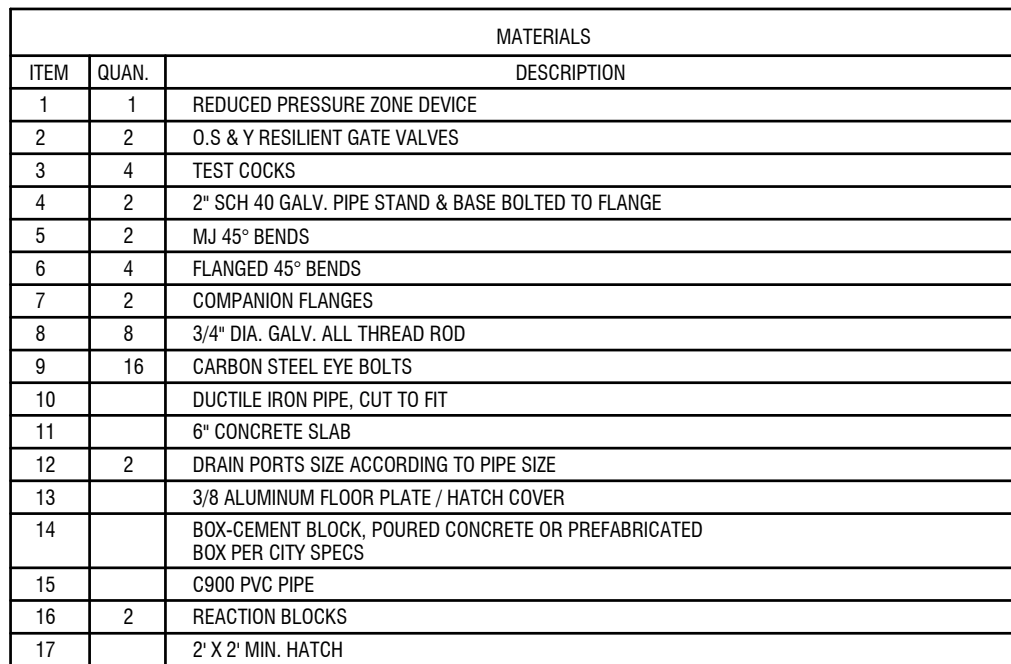
AD6 Drainage
Project

INTERMEDIATE
ESPC PLAN

C201

FILE NO: 2020-14
PLOT DATE: August 4, 2020





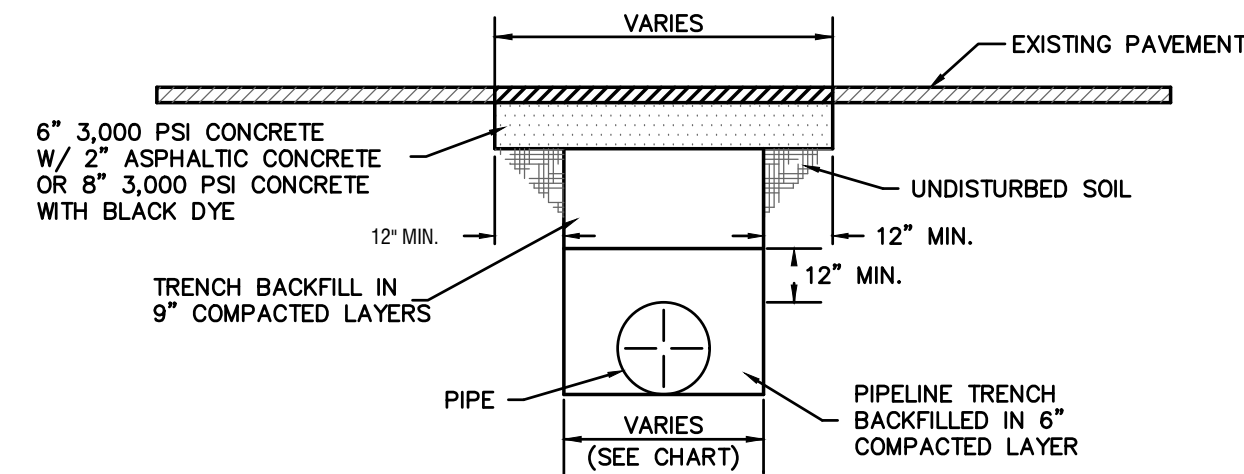
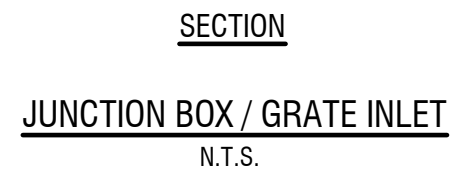
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR THE SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.

2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTER. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.

3. APPLICABLE TO TALL BUILDINGS OVER 2 STORIES AND ESTABLISHMENTS WITH HAZARDOUS CONTAMINATION

POND 2 OUTLET CONTROL STRUCTURE DETAIL
N.T.S.

1. CONTRACTOR AND PRECASTER SHALL PROVIDE SHOP DRAWINGS FOR OUTLET CONTROL STRUCTURE FITTED FOR SLIDE GATE.



PIPE DIAMETER	MAXIMUM TRENCH WIDTH 0 – 6" CUT DEPTH	MAXIMUM PAYMENT WIDTH 0 – 6" CUT DEPTH
6" to 15"	16" + DIA.	40" + DIA.
18" to 21"	20" + DIA.	44" + DIA.
24" to 30"	24" + DIA.	48" + DIA.
33" to 42"	36" + DIA.	60" + DIA.
48" +	36" + DIA.	60" + DIA.

NOTE
MAXIMUM PAVEMENT WIDTH FOR CUT DEPTH
OVER 6 FEET SHALL BE 8 FEET UNLESS NOTED
OTHERWISE ON PLANS.

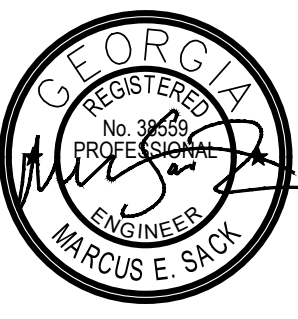
PAVEMENT REMOVAL & REPLACEMENT
N.T.S.



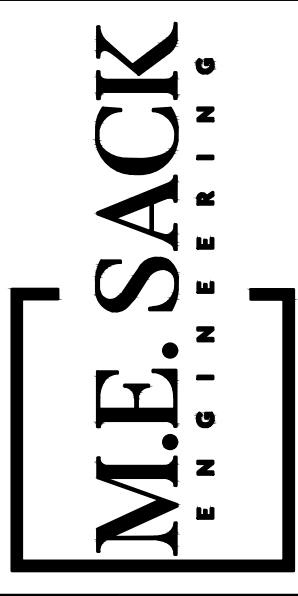
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P.C. SIMONTON & ASSOCIATES, INC. AND M.E. SACK ENGINEERING. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT PERMISSION ON A SIGNED AND SEALED DOCUMENT. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE NAMED CLIENT ONLY. IN THE EVENT OF AN ELECTRONIC VERSION P.C. SIMONTON & ASSOC., INC. AND M.E. SACK ENGINEERING ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPIES WILL TAKE PRECEDENCE OVER ANY ELECTRONIC MEDIA."

GSWCC LEVEL 2 #70248
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395



DATE: AUGUST 3, 2020



MUNICIPALITY:
CITY OF RICEBORO

COUNTY:
LIBERTY

Owner:
SNF
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
marketing@snfhc.com

24 HOUR CONTACT:
NAME: Gary Ryals
1 Chemical Plant Road
Riceboro, GA 31323
(912)-884-8754
garyr@snnfhc.com

AD6 Drainage Project

DETAILS

C301

FILE NO: 2020-14

PLOT DATE: August 4, 2020