



BONNIE BROOK PUMP STATION RETROFIT COMMISSIONER DISTRICT 6 ORANGE COUNTY, FLORIDA FINAL CONSTRUCTION SKETCHES JUNE 1, 2018

TERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

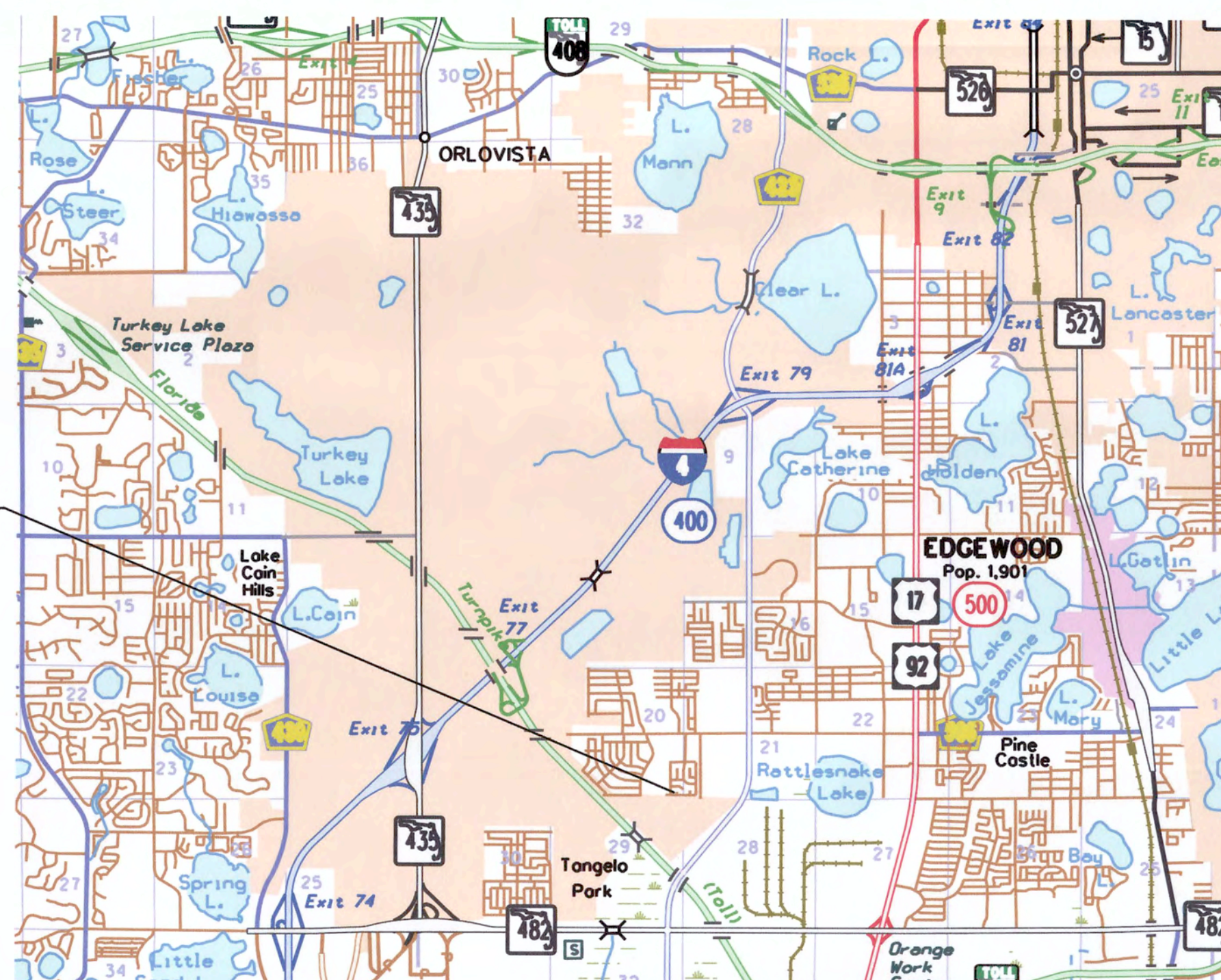
- | | |
|-------------------|------------|
| BETSY VANDERLEY | DISTRICT 1 |
| ROD A. LOVE | DISTRICT 2 |
| PETE CLARKE | DISTRICT 3 |
| JENNIFER THOMPSON | DISTRICT 4 |
| EMILY BONILLA | DISTRICT 5 |
| VICTORIA SIPLIN | DISTRICT 6 |

MARK MASSARO, P.E., PUBLIC WORKS DIRECTOR

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, 2017 EDITION, AS
AMENDED BY CONTRACT DOCUMENTS.

PROJECT
LOCATION

TO
TAMPA



VICINITY MAP

1" = 1mi

COUNTY BENCHMARK DATA:

A1438001
FOUND 3" ORANGE COUNTY ALUMINUM DISK ON A
CONCRETE CURB INLET ON THE NORTH SIDE OF "T"
INTERSECTION OF MACDONOUGH AVENUE AND
GLEN BARR AVENUE, 15 FEET ± SOUTH OF THE
CENTERLINE OF MACDONOUGH AVENUE, 30 FEET ±
WEST OF THE CENTERLINE OF GLEN BARR AVENUE
PUBLISHED ELEVATION = 86.215 FEET (NAVD88)

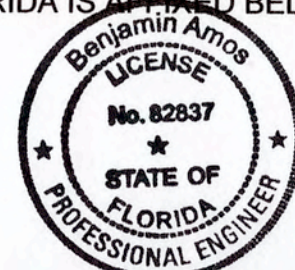
A1438003
FOUND 3" ORANGE COUNTY ALUMINUM DISK ON A
CONCRETE CURB INLET ON THE SOUTH SIDE OF
MACDONOUGH AVENUE, 13 FEET ± SOUTH OF THE
CENTERLINE OF MACDONOUGH AVENUE, 150 FEET ±
WEST OF THE CENTERLINE OF MOVERN COURT,
BETWEEN ADDRESS #3998 & #4002 MACDONOUGH
AVENUE. PUBLISHED ELEVATION = 86.093 FEET
(NAVD88)

NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

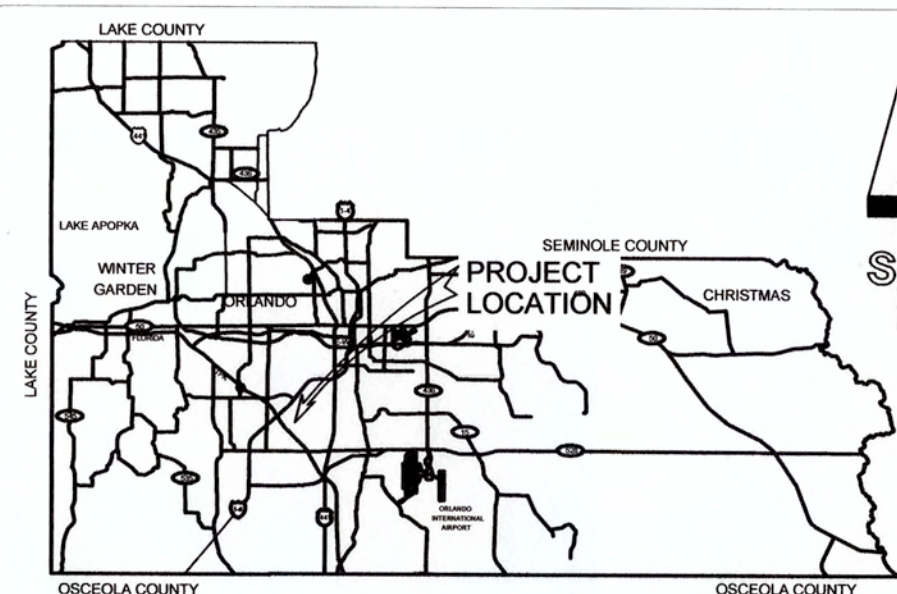
CERTIFICATION TO PLANS

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED AND DESIGNED BY GEOSYNTEC CONSULTANTS, INC. FOR SOLE USE BY ORANGE COUNTY. THESE CONSTRUCTION DRAWINGS WERE PREPARED EITHER DIRECTLY, OR UNDER THE SUPERVISION AND DIRECTION OF THE RESPECTIVE UNDERSIGNED, WHOSE SEAL AS A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA IS AFFIXED BELOW.



DATE: 6/1/2018 ENGINEER: Benjamin K. Amos REG. NO. 92937
ENGINEER

LENGTH OF PROJECT		
	LINEAR FT.	MILES
DRAINAGE PIPE	0.00	0.00
BRIDGES	0.00	0.00
NET LENGTH OF PROJ.	0.00	0.00
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJ.	0.00	0.00



SECTION 20 TOWNSHIP 23S. RANGE 29E

LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES AND SUMMARY OF PAY ITEMS
3	PROJECT LAYOUT
4	PLAN VIEW
5	CROSS SECTIONS
6	CONCRETE DETAILS
7	SPLITTER WALL DETAILS
8	ANTI-ROTATION BAFFLE DETAIL
9	EROSION CONTROL SHEET / SWPPP

UTILITIES ENCOUNTERED

POWER: OUC	PHONE: 800-778-9140
PHONE: AT&T	PHONE: 561-315-5528
SEWER: OCU	PHONE: 407-836-6843
CATV: BRIGHT HOUSE	PHONE: 407-532-8549
WATER: OUC	PHONE: 800-778-9140

Geosyntec

consultants

BENJAMIN K. AMOS, PE
FL PE #82837

Certificate 4321
1511 EAST STATE ROAD 434 STE 1005
WINTER SPRINGS, FL 32708

REVISIONS	DATE	BY

DESIGNED BY: KMH	DATE: 06-01-2018
DRAWN BY: LGM	DATE: 06-01-2018
CHECKED BY: LGM	DATE: 06-01-2018
APPROVED BY: BKA	DATE: 06-01-2018
PROJECT NO: FW2528	

SHEET 1
OF 09

SUMMARY OF PAY ITEMS

Item	Pay Item No.	Description	Units	Quantity
1	101-1	Mobilization	LS	1
2	102-1	Maintenance of Traffic	LS	1
3	104-14	Prevention, Control and Abatement of Erosion and Water Pollution	LS	1
4	110-1	Clearing and Grubbing	LS	1
5	900-1	As-Built Plans	LS	1
6	900-2	Indemnification	LS	1
7	900-3	12-in. x 12-in. Corner and Floor Concrete Fillets (#5 Rebar and Dowel Rods Included)	LF	65
8	900-4	12-in. x 8-in. Floor Splitter Concrete Fillets (#5 Rebar and Dowel Rods Included)	LF	18
9	900-5	6-in. x 13-lb/ft SS Channel	LF	9
10	900-6	3-in. x 3-in. x 3/8-in. SS Angle	LF	95.5
11	900-7	5/8" Diameter SS Hiltibolt Anchor	LS	1
12	900-8	Suction Umbrella	EA	2
13	900-9	3/8" x 48" x 120" SS Splitter Wall	LS	1
14	900-10	1/4" x 48" x 12" SS Anti-rotation Baffle	EA	2
15	900-11	12" x 12" x 1/4" SS Plate	EA	2
16	900-12	Pump Station Dewatering	DAY	20
17	900-13	Crane Services	LS	1

PAY ITEM FOOTNOTES:
 - 104-14 - INCLUDES THE COST TO REMOVE ANY INTERNAL DEBRIS AND SAND/SILT THEREFROM. INCLUDES THE COST OF SILT FENCE, SYNTHETIC HAY BALES, FLOATING TURBIDITY BARRIER AND SOIL TRACKING PREVENTION DEVICE AS SHOWN IN THE PLANS OR AS DIRECTED BY THE COUNTY. INCLUDES THE COST TO STABILIZE ALL DISTURBED AREAS WITHIN RIGHT OF WAY AND EASEMENT WITH SOD. CONTRACTOR SHALL INSTALL SOD IN ACCORDANCE WITH FDOT SECTION 570.

- 110-1 - INCLUDES REMOVAL OF ANY EXISTING FACILITIES TO SUPPORT THE PROPOSED IMPROVEMENTS

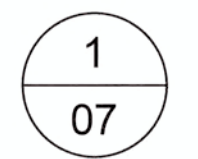
-900-1 - INCLUDES SURVEYING THE EXISTING FLOAT SWITCH ELEVATIONS AND PROVIDING A REPORT TO THE COUNTY AND ENGINEER OF THE ELEVATIONS. INCLUDES SURVEYING THE MODIFIED FLOAT SWITCH ELEVATIONS AND INCLUDING IN THE AS-BUILT PLANS.

GENERAL NOTES

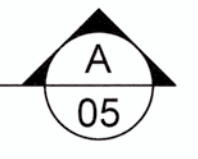
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE PROJECT TECHNICAL PROVISIONS AND SUPPLEMENTAL CONDITIONS.
- THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
- ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR
3900 COMMONWEALTH BOULEVARD, SUITE 309,
TALLAHASSEE, FL
850-245-2606
- PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE (407-836-7940). THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
- AT PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DIVISION A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PROJECT LAYOUT SHEET, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
- CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO START OF CONSTRUCTION.
- ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE AND MAINTENANCE OF ALL EXISTING RUNOFF DISCHARGES DURING CONSTRUCTION TO AVOID THE TRANSPORT OF SEDIMENT AND ERODIBLE SOILS UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
- ALL CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN COUNTY RIGHT-OF-WAY OR WITHIN EXISTING COUNTY EASEMENTS.
- CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PUMP STATION DURING CONSTRUCTION OF THE PS029 WET WELL IMPROVEMENTS BY USE OF TEMPORARY PUMPS PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOODING LEVEL OF SERVICE DURING CONSTRUCTION.

- THE PUMP AT PS029 MUST NOT BE IN USE WHILE IMPROVEMENTS TO THE WET WELL ARE ACTIVE, THE PUMPS MUST BE MANUALLY TURNED OFF AND SHALL NOT BE TURNED ON AGAIN UNTIL THE PUMP STATION WET WELL IMPROVEMENTS ARE COMPLETED.
- CONTRACTOR SHALL NOT USE THE EXISTING PUMP STATION PUMPS FOR DEWATERING PURPOSES.
- CONTRACTOR TO ENSURE THAT THE EXISTING PUMP STATION BASIN AND WET WELL ARE THOROUGHLY CLEAN AT ALL TIMES DURING CONSTRUCTION TO ENSURE THAT SOLID OBJECTS (CONSTRUCTION EQUIPMENT, SEDIMENT, VEGETATION, DEBRIS) DO NOT ENTER THE PUMP STATION IMPELLERS DURING NORMAL PUMPING OPERATIONS OF THE FACILITY.
- CONTRACTOR SHALL SOD ALL DISTURBED VEGETATED AREAS.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
- UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
- THE CONTRACTOR SHALL DETERMINE THE ELEVATION OF THE EXISTING PUMP STATION FLOAT SWITCHES, INCLUDING THE OFF ELEVATION, LEAD PUMP ON ELEVATION AND LAG PUMP ON ELEVATION. THE FLOAT SWITCH ELEVATIONS SHALL BE PROVIDED BY THE CONTRACTOR TO THE COUNTY AND ENGINEER PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS.
- PROJECT REFERENCE DOCUMENTS:
TOPOGRAPHIC SURVEY - BONNIE BROOK PUMP STATION IMPROVEMENTS PROJECT DATED AUGUST 18, 2014 BY GEODATA CONSULTANTS, INC.

REFERENCE LEGEND:



DETAIL NUMBER SHEET NUMBER



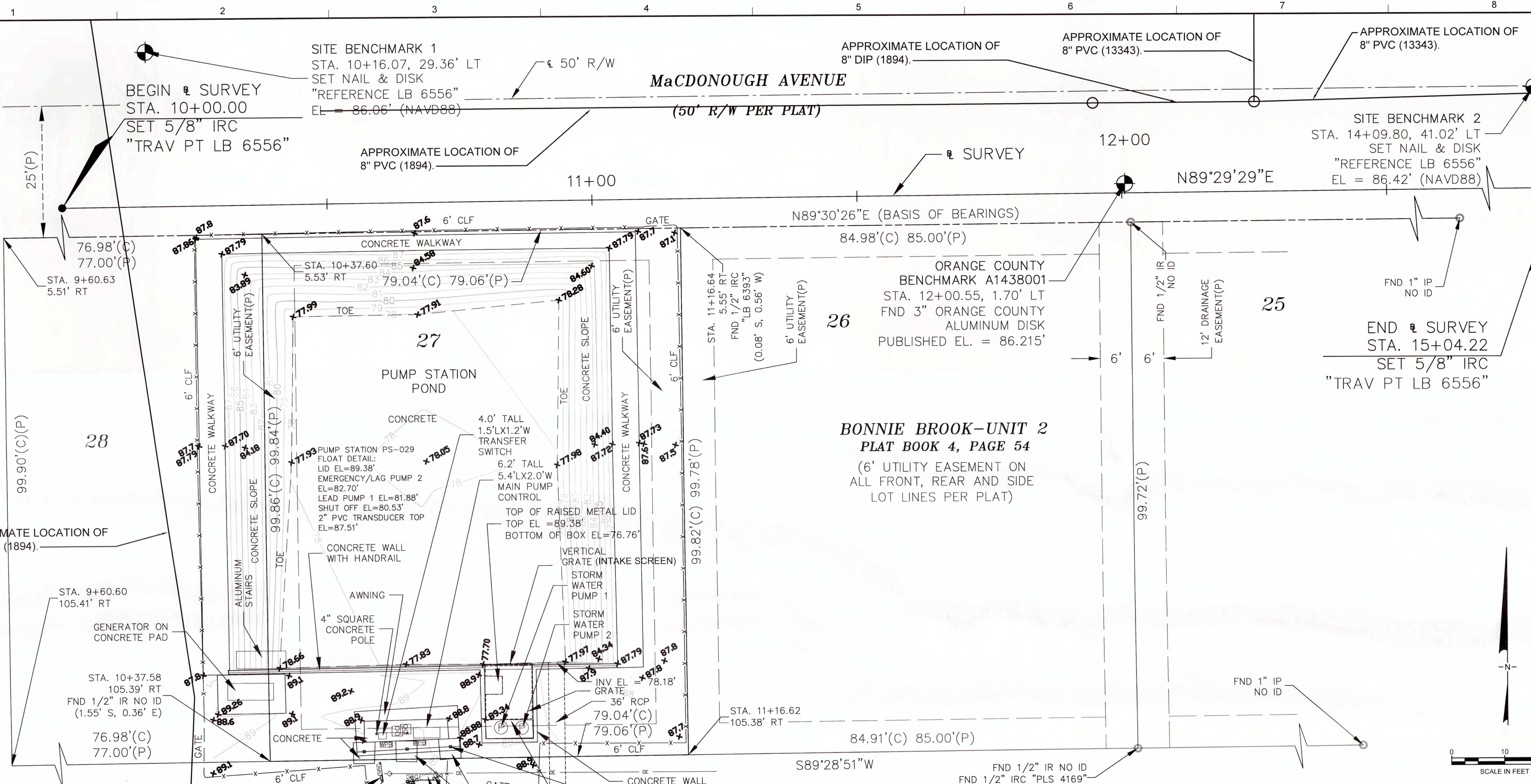
CROSS SECTION SHEET NUMBER



FINAL CONSTRUCTION SKETCHES

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A	11 29 16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP
		1511 EAST STATE ROAD 434 SUITE 1005 WINTER SPRINGS, FLORIDA P. 407.321.7030		
TITLE:		GENERAL NOTES AND SUMMARY OF PAY ITEMS		
PROJECT:		BONNIE BROOK PUMP STATION RETROFIT		
LOCATION:		COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA		
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.			DESIGN BY: KMH	DATE: JUNE 1, 2018
			DRAWN BY: BMM	PROJECT NO.: FW2528
			CHECKED BY: KMH	FILE: FW2528P020.dwg
			REVIEWED BY: LGM	DRAWING NO.:
			APPROVED BY: BJA	02 OF 09

May 31, 2018 - 4:53pm Nharshom - P:\Projects\ORANGE_SW_1239\FW2528_BONNIE_BROOK_RETROFIT\CADD\FW2528P030.dwg



SITE BENCHMARK 1
 STA. 10+16.07, 29.36' LT
 SET NAIL & DISK
 "REFERENCE LB 6556"
 EL = 86.06' (NAVD88)

BEGIN & SURVEY
 STA. 10+00.00
 SET 5/8" IRC
 "TRAV PT LB 6556"

SITE BENCHMARK 2
 STA. 14+09.80, 41.02' LT
 SET NAIL & DISK
 "REFERENCE LB 6556"
 EL = 86.42' (NAVD88)

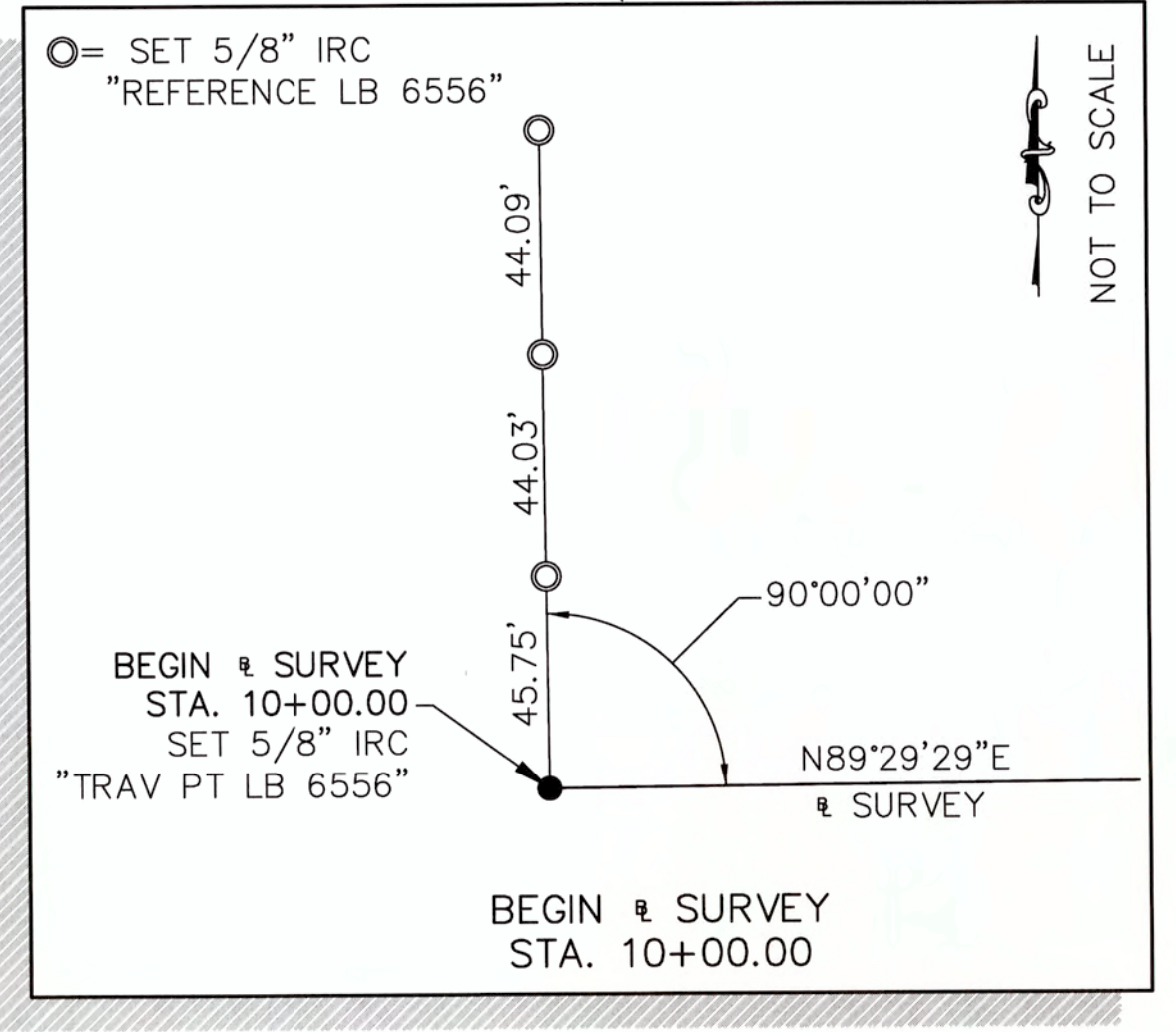
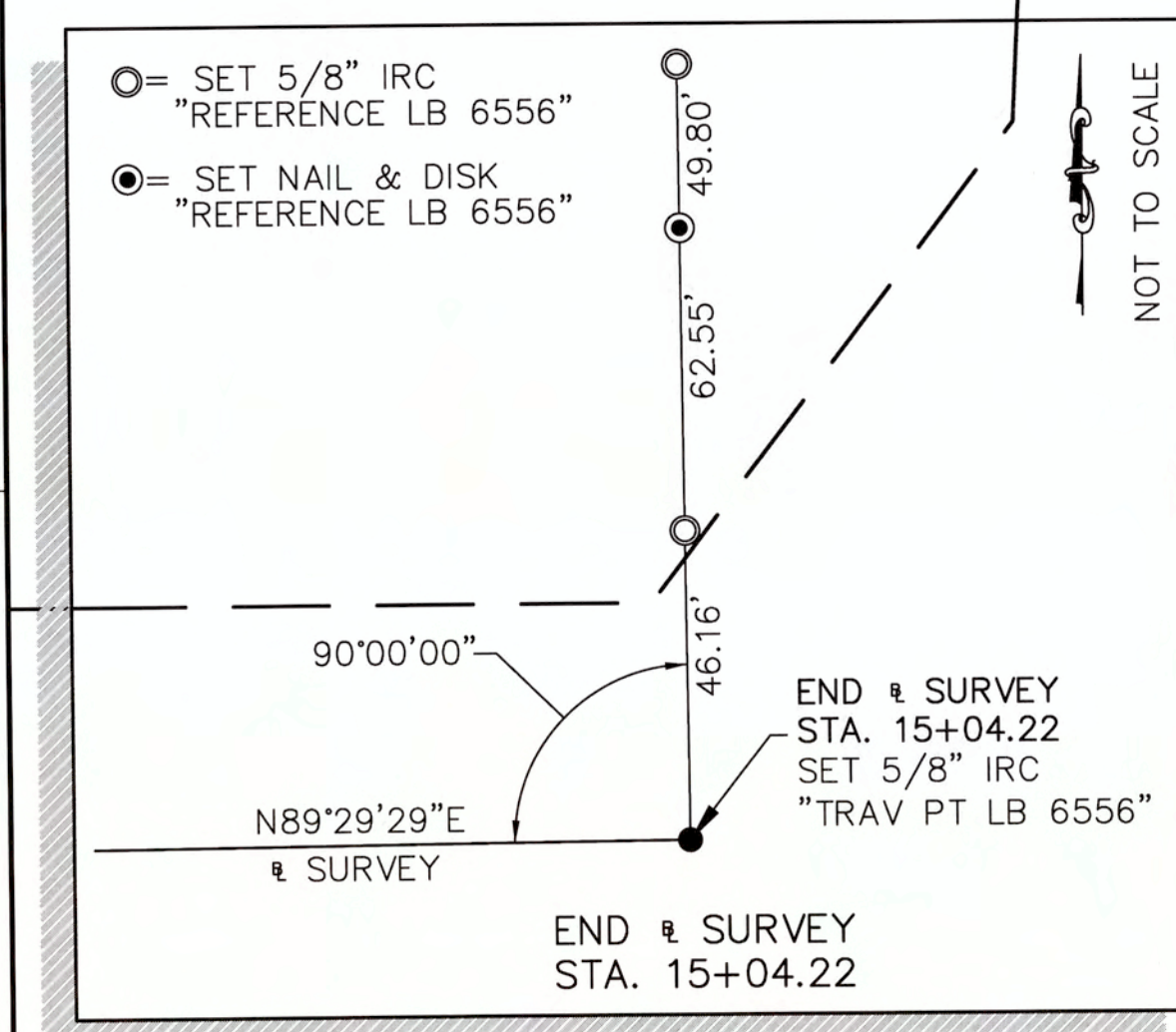
END & SURVEY
 STA. 15+04.22
 SET 5/8" IRC
 "TRAV PT LB 6556"

ORANGE COUNTY BENCHMARK A1438001
 STA. 12+00.55, 1.70' LT
 FND 3" ORANGE COUNTY ALUMINUM DISK
 PUBLISHED EL. = 86.215'

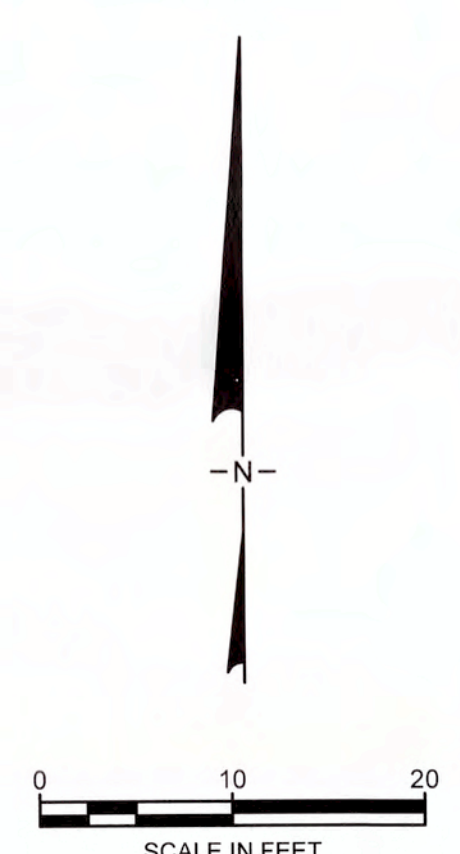
BONNIE BROOK-UNIT 2
PLAT BOOK 4, PAGE 54
 (6' UTILITY EASEMENT ON ALL FRONT, REAR AND SIDE LOT LINES PER PLAT)

PUMP STATION PS-029
 FLOAT DETAIL:
 LID EL=89.38'
 EMERGENCY/LAG PUMP 2
 EL=82.70'
 LEAD PUMP 1 EL=81.88'
 SHUT OFF EL=80.53'
 2" PVC TRANSDUCER TOP
 EL=87.51'

4.0' TALL 1.5'LX1.2'W TRANSFER SWITCH
 6.2' TALL 5.4'LX2.0'W MAIN PUMP CONTROL
 TOP OF RAISED METAL LID
 TOP EL = 89.38'
 BOTTOM OF BOX EL = 76.76'



NOTE:
 THIS PROJECT LAYOUT SHEET HAS BEEN PREPARED BASED ON THE TOPOGRAPHIC SURVEY BY GEODATA CONSULTANTS, INC. DATED AUGUST 18, 2014 AND AMENDED APRIL 22, 2015.



0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BAK
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec consultants

1511 EAST STATE ROAD 434
 SUITE 1005
 WINTER SPRINGS, FLORIDA
 P. 407.321.7030

PROJECT LAYOUT
BONNIE BROOK PUMP STATION RETROFIT
 COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA

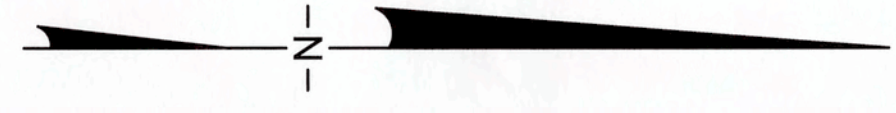
DESIGN BY:	KMH	DATE:	JUNE 1, 2018
DRAWN BY:	LGM	PROJECT NO.:	FW2528
CHECKED BY:	KMH	FILE:	FW2528P030.dwg
REVIEWED BY:	LGM	DRAWING NO.:	03 OF 09
APPROVED BY:	BAK		

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

Benjamin P. Ames
 SIGNATURE
 6/11/2018
 DATE

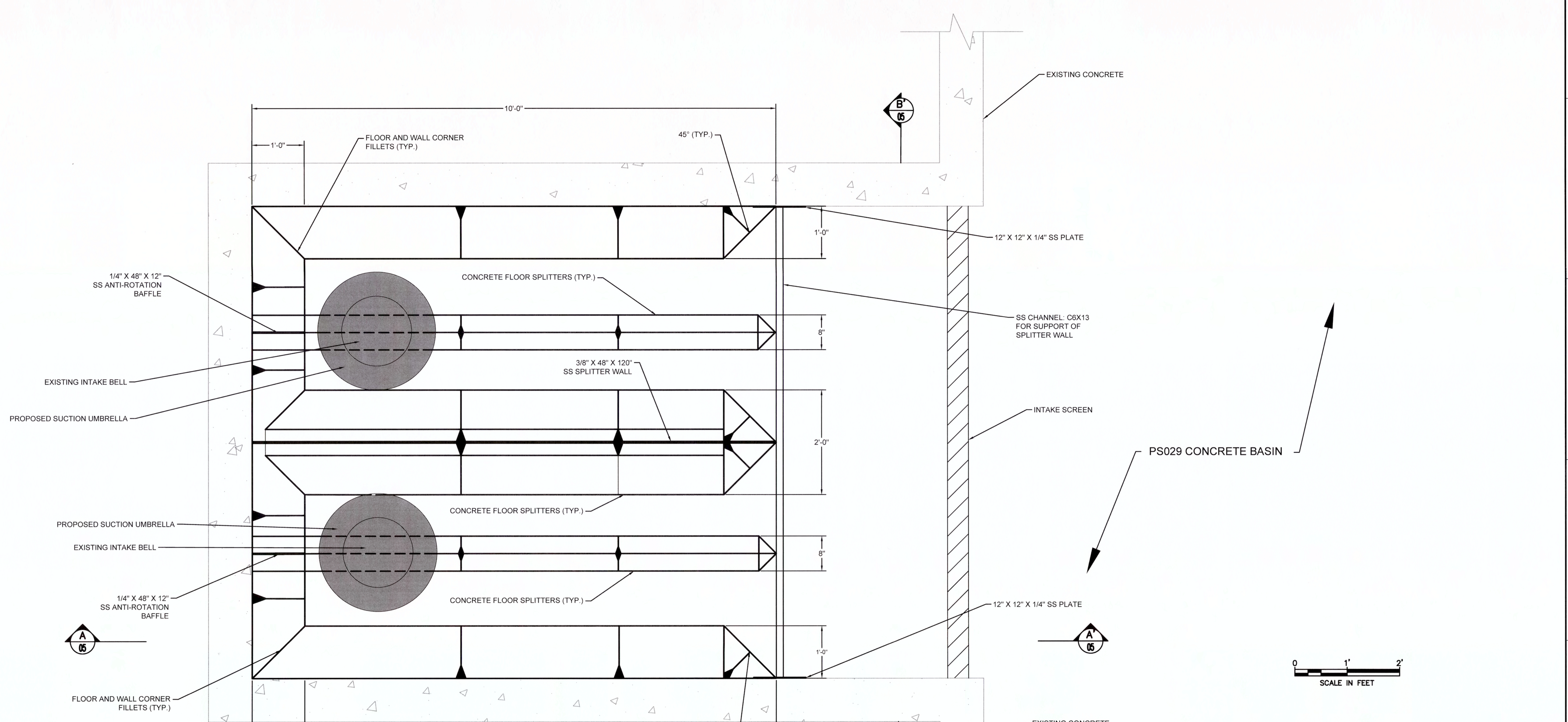
Benjamin Ames
 LICENSE
 No. 82837
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

May 31, 2018 - 4:59pm N:\Hardsham - P:\Projects\ORANGE_SV_1239\FW2528_BONNIE_BROOK_RETROFIT\CADD\FW2528P040.dwg

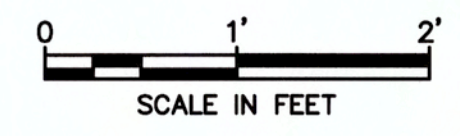


1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8



1
04 PLAN VIEW OF PS029 WET WELL



0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BKA
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec
consultants

1511 EAST STATE ROAD 434
SUITE 1005
WINTER SPRINGS, FLORIDA
P. 407.321.7030

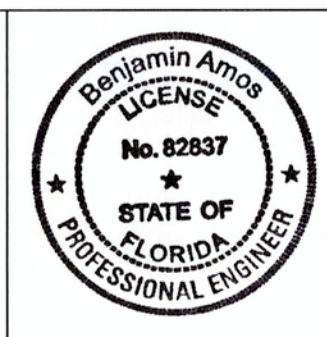
TITLE: **PLAN VIEW**

PROJECT: **BONNIE BROOK PUMP STATION RETROFIT**

LOCATION: **COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA**

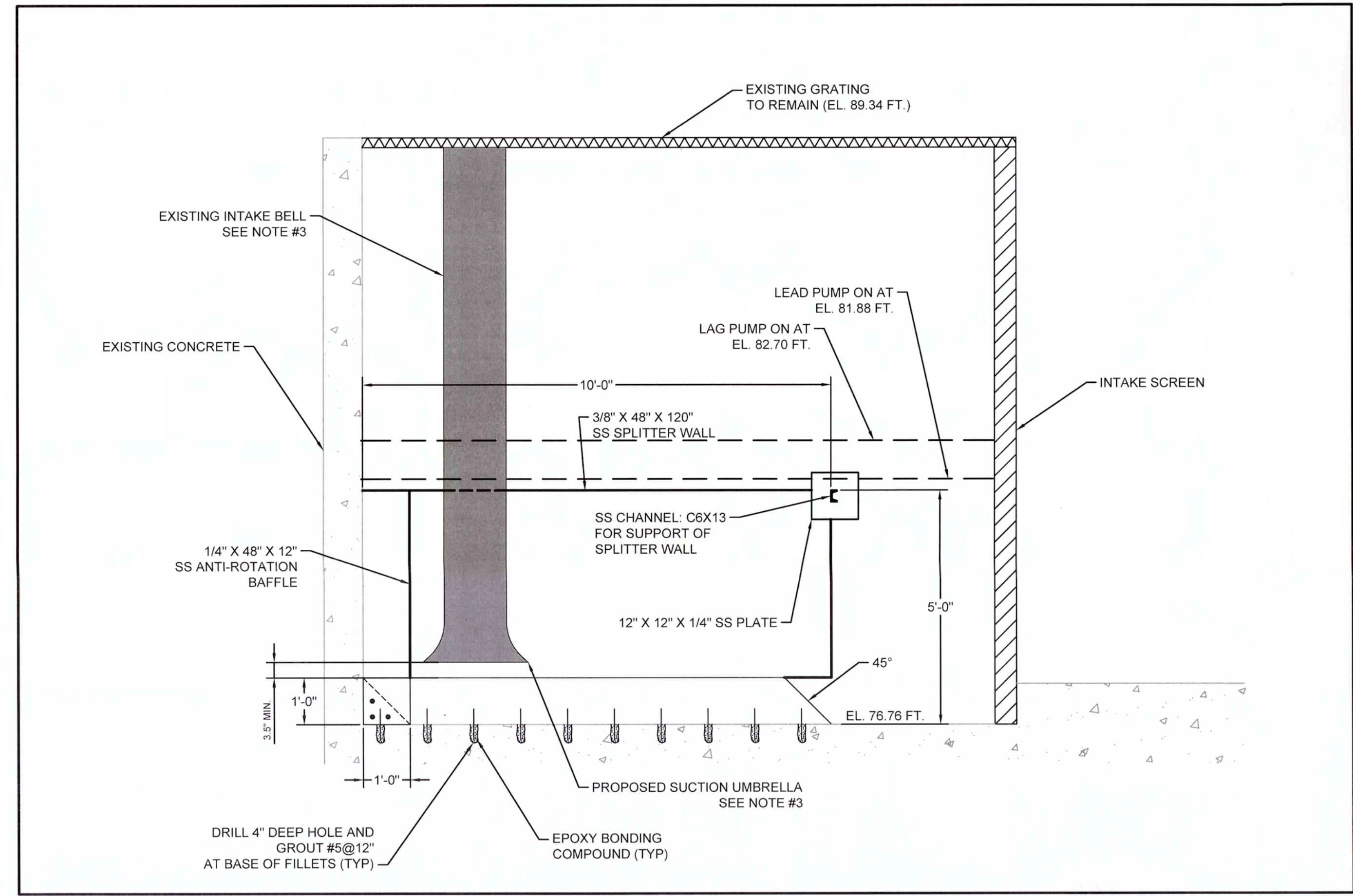
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

Benjamin R. Amos
SIGNATURE
6/11/2018
DATE

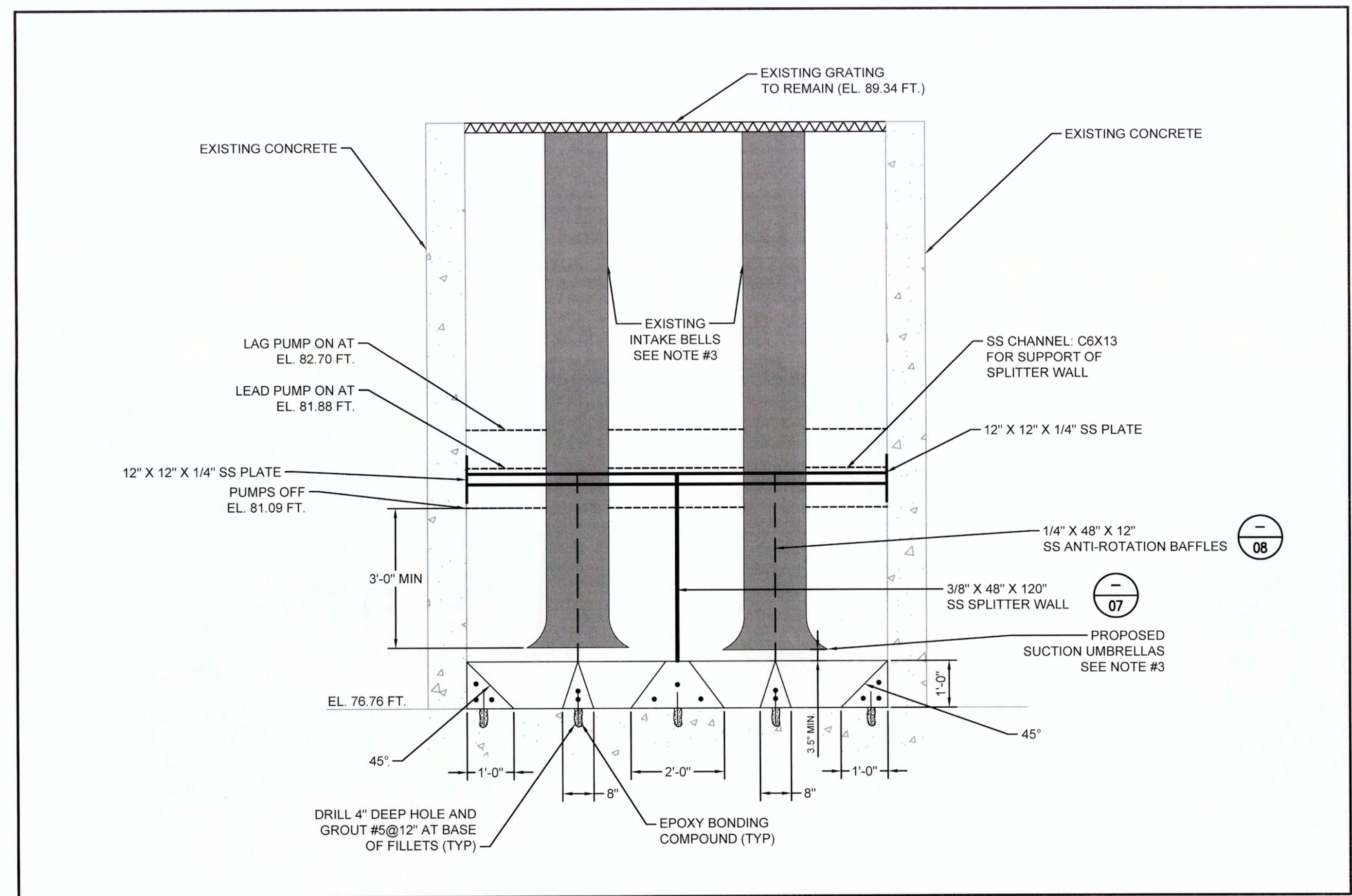
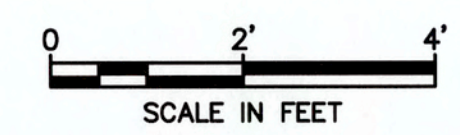


DESIGN BY:	KMH	DATE:	JUNE 1, 2018
DRAWN BY:	LGM	PROJECT NO.:	FW2528
CHECKED BY:	KMH	FILE:	FW2528P040.dwg
REVIEWED BY:	LGM	DRAWING NO.:	04 OF 09
APPROVED BY:	BKA		

FINAL CONSTRUCTION SKETCHES



A
05 CROSS SECTION A-A'

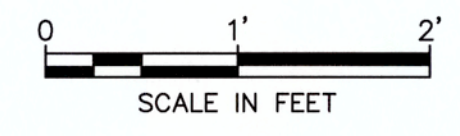
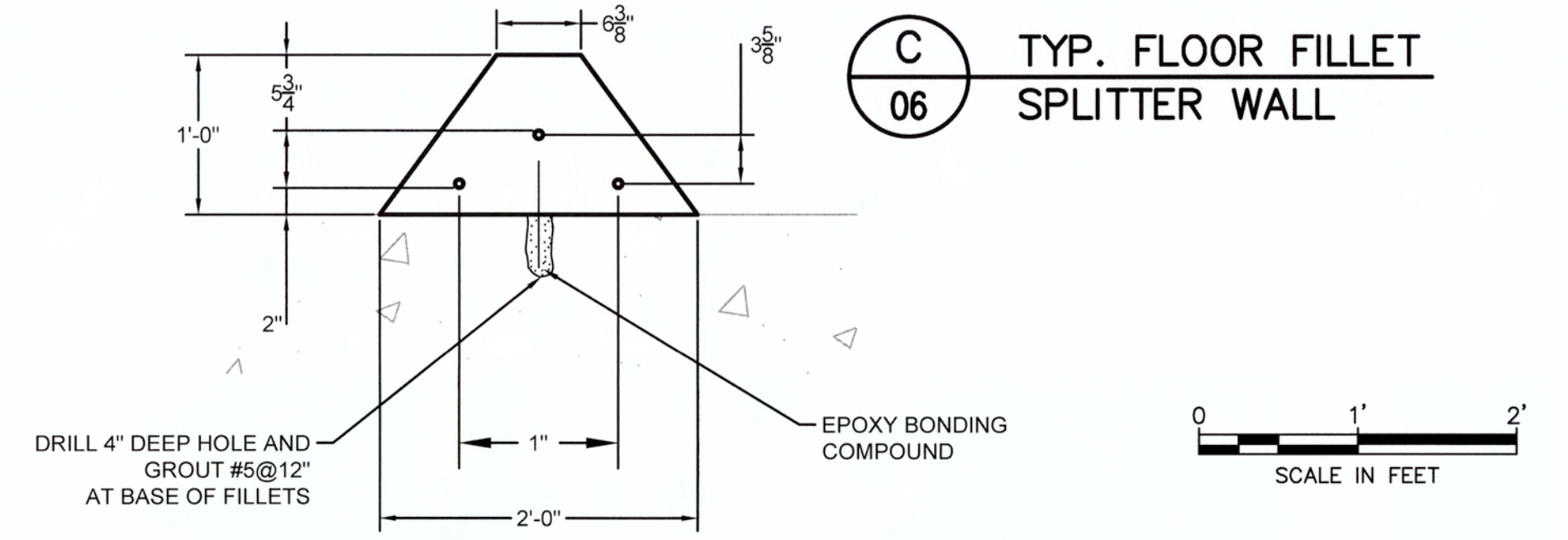
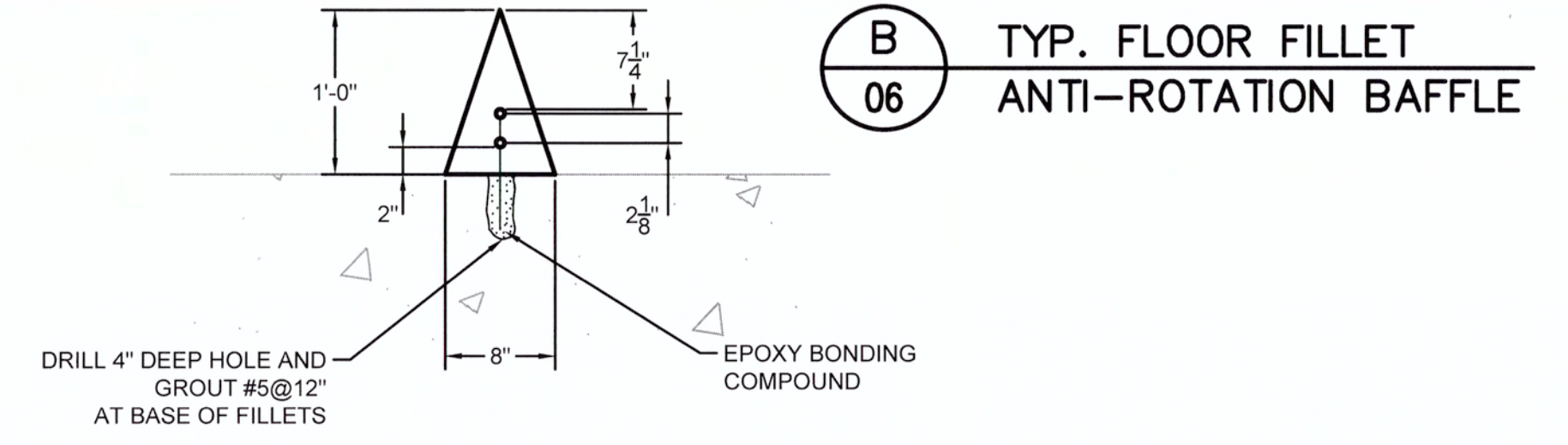
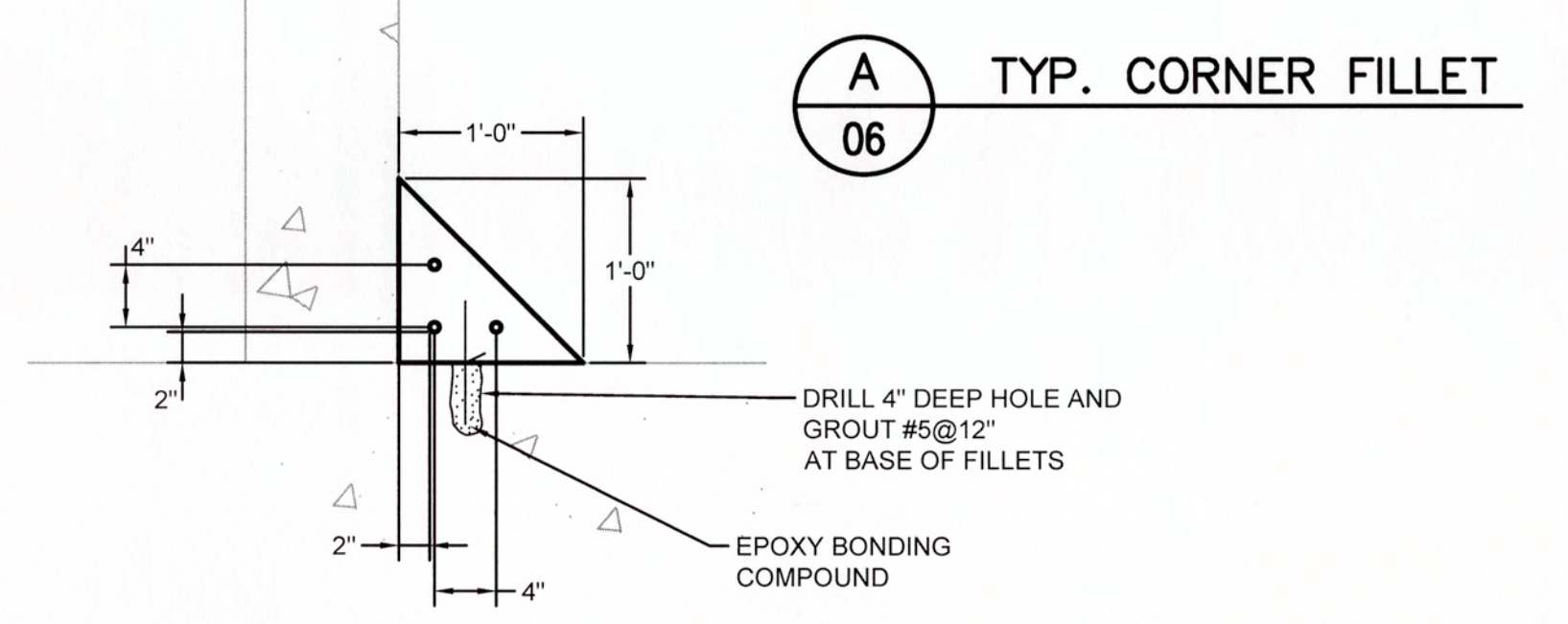
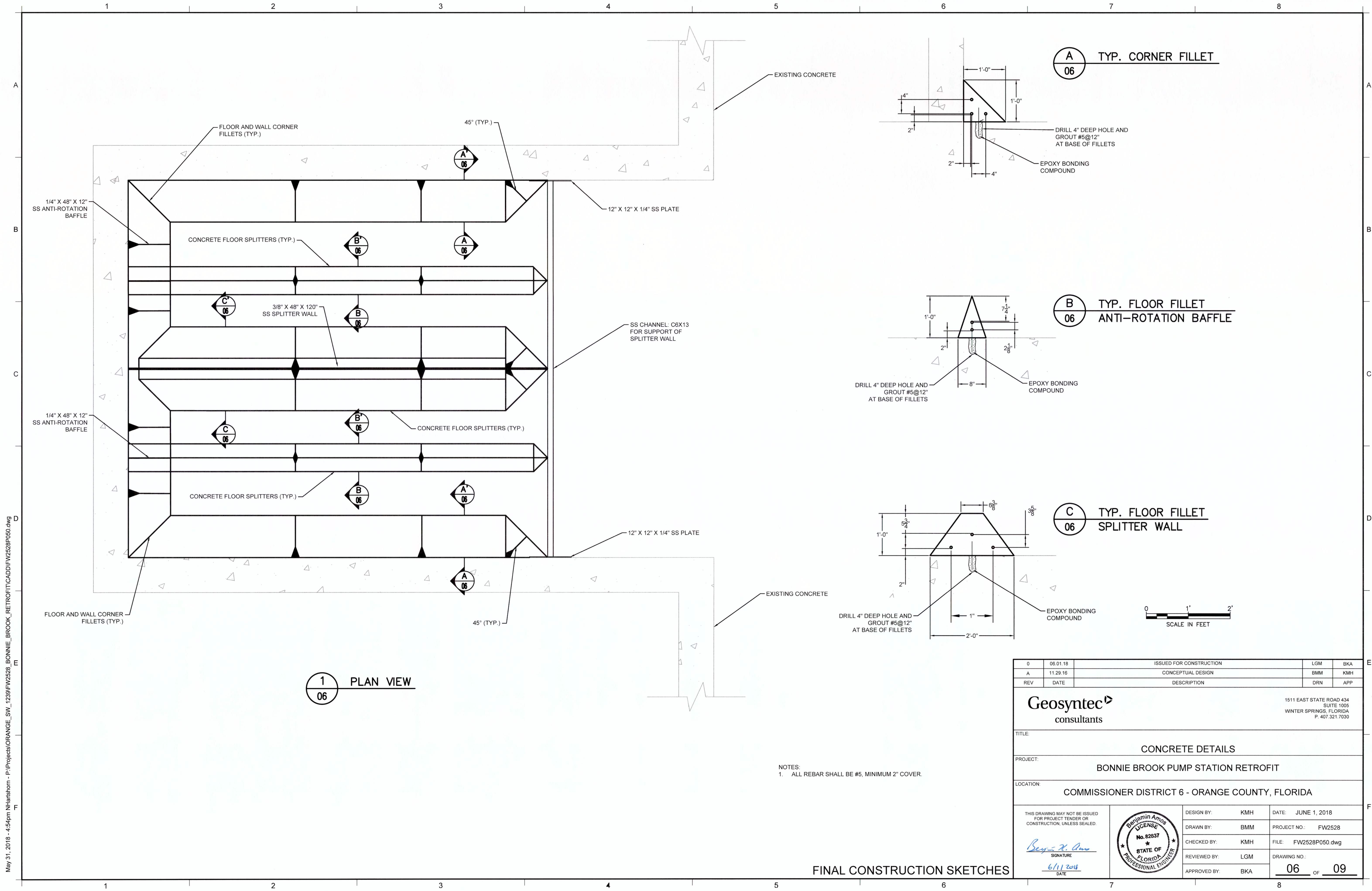


B
05 CROSS SECTION B-B'

- NOTES:
1. ALL REBAR SHALL BE #5. MINIMUM 2" COVER.
 2. CONTRACTOR SHALL OBTAIN SUCTION UMBRELLAS FROM THE PUMP MANUFACTURER TO MATCH IN ACCORDANCE WITH TP 900-8.
 3. CONTRACTOR SHALL SHORTEN THE EXISTING INTAKE BELLS SUCH THAT THE BOTTOM OF THE PROPOSED SUCTION UMBRELLAS ARE AT EL. 78.00 FT. AND MEET THE MIN. CLEARANCE DIMENSION SHOWN ON THE CROSS-SECTION.
 4. MIN. CLEARANCE DISTANCE IS SHOWN BETWEEN THE BOTTOM OF THE PROPOSED SUCTION UMBRELLAS AND THE TOP OF THE FLOOR SPLITTERS.

0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BAK
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP
		1511 EAST STATE ROAD 434 SUITE 1005 WINTER SPRINGS, FLORIDA P. 407.321.7030		
TITLE: CROSS SECTIONS				
PROJECT: BONNIE BROOK PUMP STATION RETROFIT				
LOCATION: COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: KMH DATE: JUNE 1, 2018 DRAWN BY: BMM PROJECT NO.: FW2528 CHECKED BY: KMH FILE: FW2528P040.dwg REVIEWED BY: LGM DRAWING NO.: APPROVED BY: BKA 05 OF 09		
 SIGNATURE 6/1/2018 DATE				

FINAL CONSTRUCTION SKETCHES



1
06 PLAN VIEW

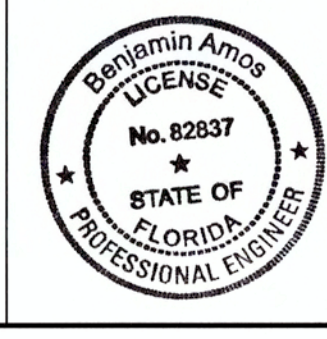
NOTES:
1. ALL REBAR SHALL BE #5, MINIMUM 2\"/>

0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BKA
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec consultants
1511 EAST STATE ROAD 434
SUITE 1005
WINTER SPRINGS, FLORIDA
P. 407.321.7030

TITLE: CONCRETE DETAILS
PROJECT: BONNIE BROOK PUMP STATION RETROFIT
LOCATION: COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA

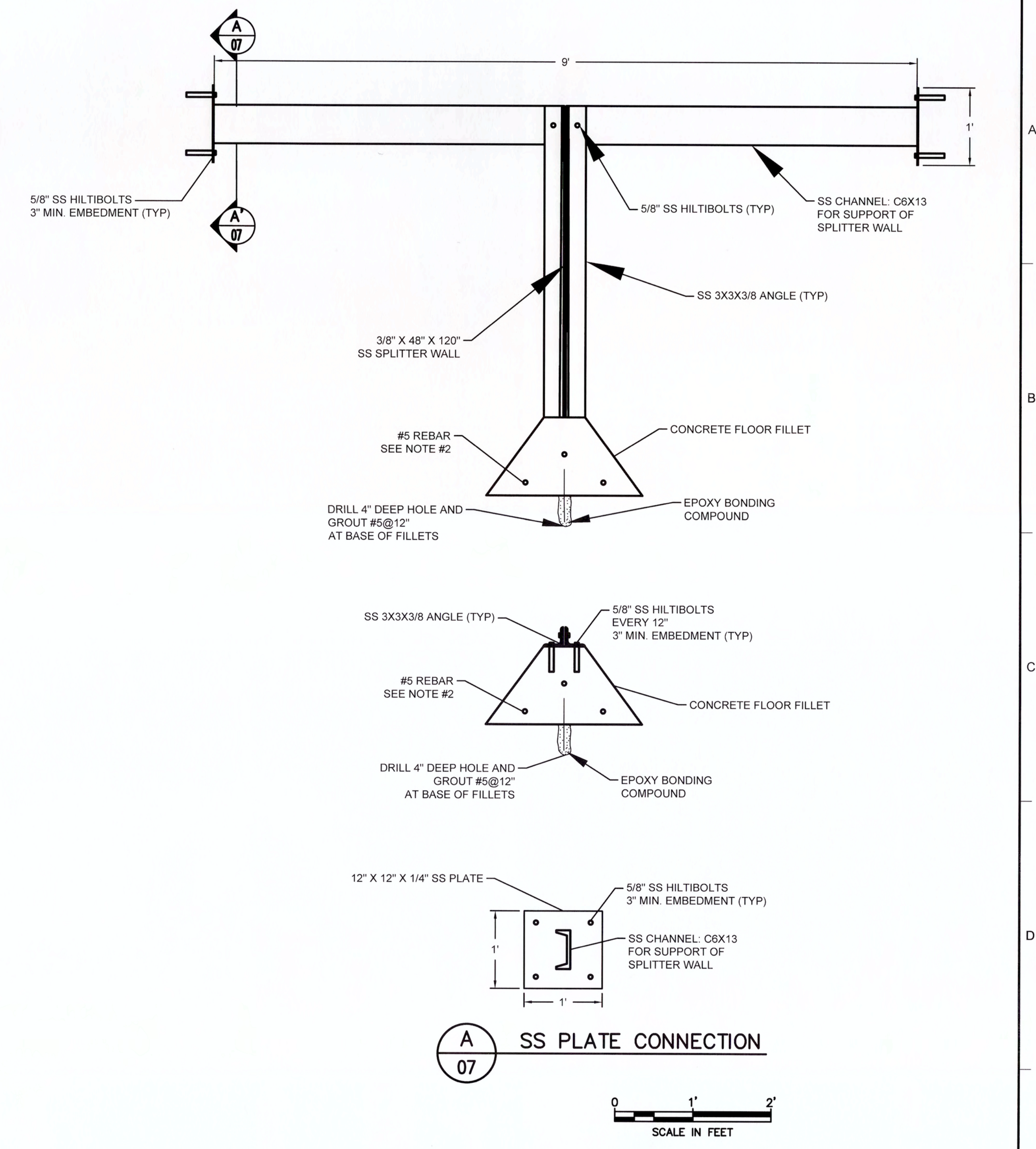
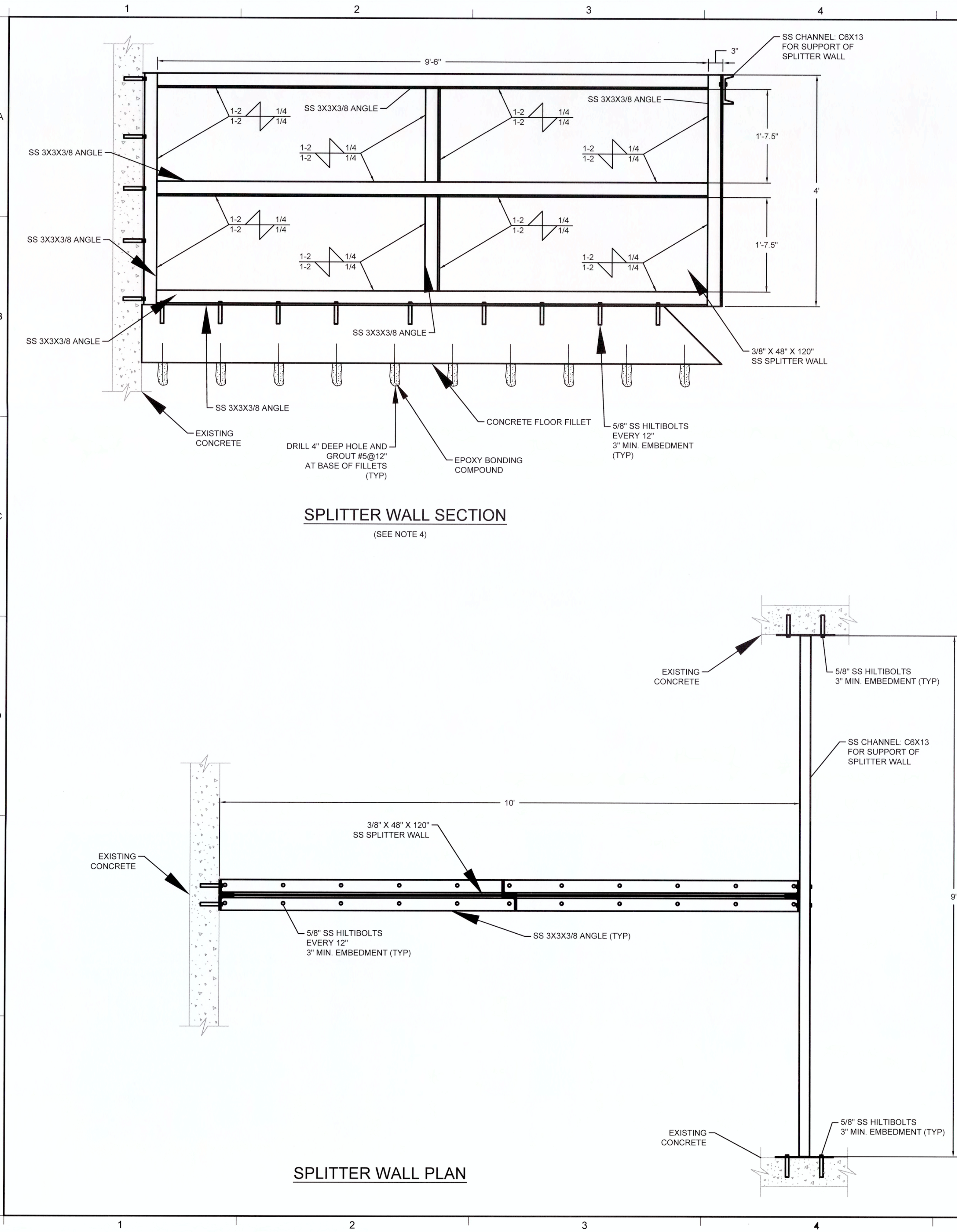
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED. <i>Benjamin Amos</i> SIGNATURE 6/11/2018 DATE	DESIGN BY: KMH	DATE: JUNE 1, 2018
	DRAWN BY: BMM	PROJECT NO.: FW2528
	CHECKED BY: KMH	FILE: FW2528PO50.dwg
	REVIEWED BY: LGM	DRAWING NO.: 06 OF 09
APPROVED BY: BKA		



FINAL CONSTRUCTION SKETCHES

May 31, 2018 - 4:54pm NHardshorn - P:\Projects\ORANGE_S\1239\FW2528_BONNIE_BROOK_RETROFIT\CADD\FW2528PO50.dwg

May 31, 2018 - 4:54pm N:\Hardbom - P:\Projects\ORANGE_SW_1239\FW2528_BONNIE_BROOK_RETROFIT\CADD\FW2528P060.dwg



- NOTES:
1. ALL BOLTS / HILTBOLTS SHALL POSSESS 5/8" DIA.
 2. ALL REBAR ASSOCIATED WITH FILLETS SHALL BE #5, 2" EMBEDMENT.
 3. ALL ANGLES SHALL BE 3X3X3/8".
 4. ANGLES SHOWN IN SECTION VIEW SHALL BE INSTALLED ON BOTH SIDES OF SPLITTER WALL.

0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BAK
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec
consultants

1511 EAST STATE ROAD 434
SUITE 1005
WINTER SPRINGS, FLORIDA
P. 407.321.7030

TITLE: **SPLITTER WALL DETAILS**

PROJECT: **BONNIE BROOK PUMP STATION RETROFIT**

LOCATION: **COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA**

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

Benjamin Arnes
SIGNATURE
6/1/2018
DATE

Benjamin Arnes
LICENSE
No. 82837
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DESIGN BY: KMH	DATE: JUNE 1, 2018
DRAWN BY: LGM	PROJECT NO.: FW2528
CHECKED BY: KMH	FILE: FW2528P060.dwg
REVIEWED BY: LGM	DRAWING NO.: 07 OF 09
APPROVED BY: BKA	

FINAL CONSTRUCTION SKETCHES

1 2 3 4 5 6 7 8

A

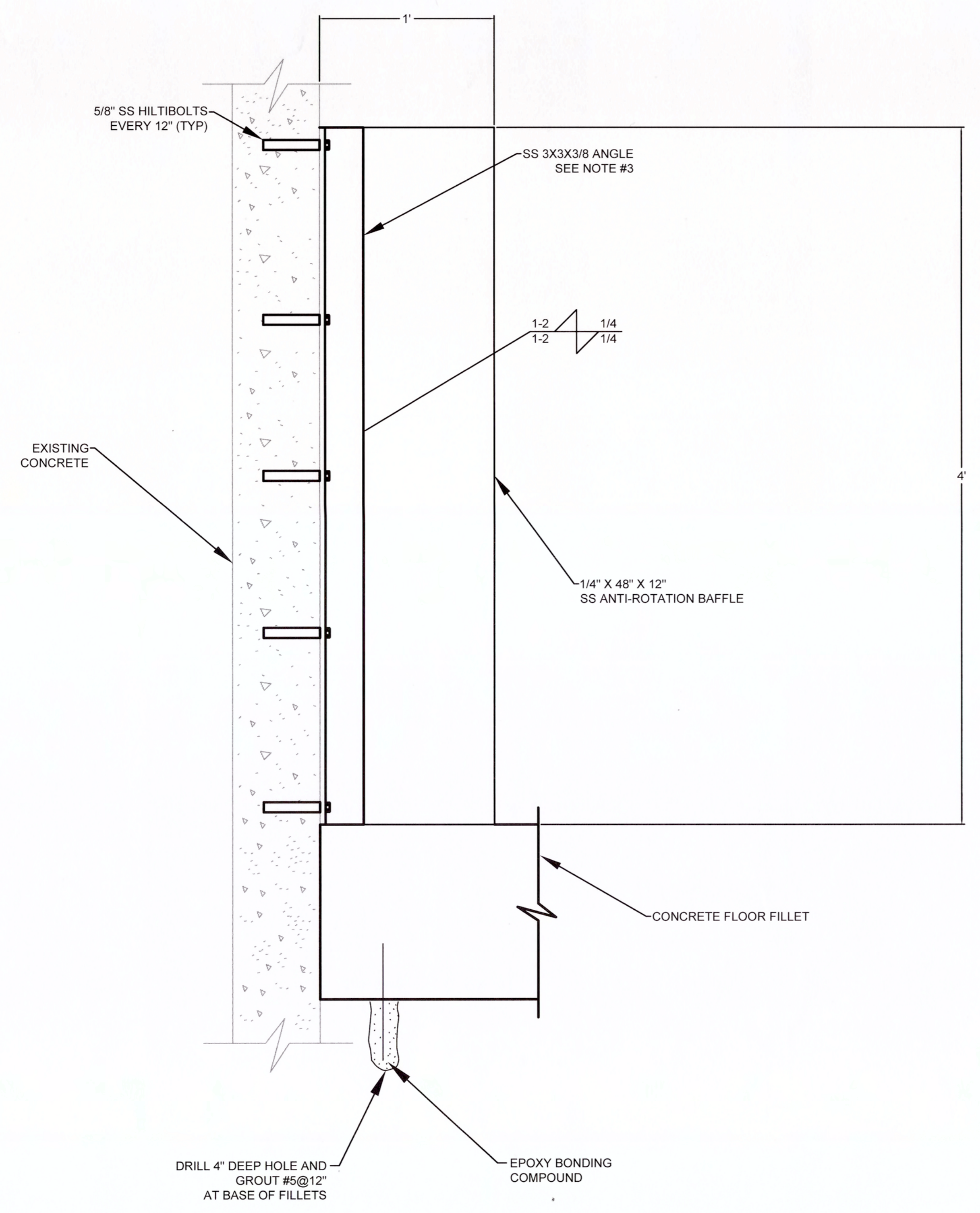
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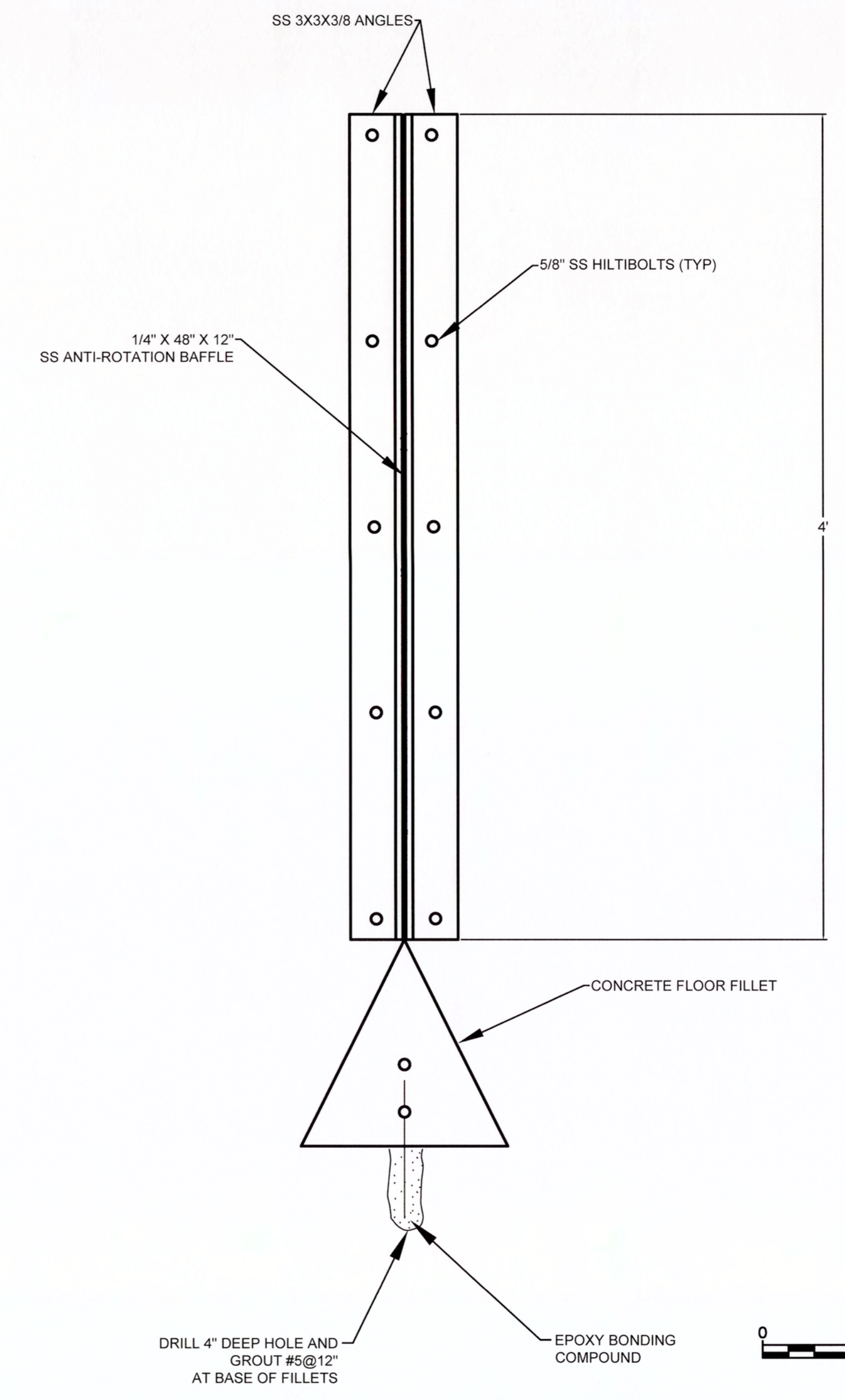
D

E

F



ANTI-ROTATION BAFFLE SIDE VIEW



ANTI-ROTATION BAFFLE FRONT VIEW

- NOTES:
1. ALL BOLTS / HILTI BOLTS SHALL BE 5/8" MIN DIA. AND EMBEDDED A MIN. 3" ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 2. ALL ANGLES SHALL BE 3X3X3/8"
 3. ANGLES SHOWN IN THE SIDE VIEW SHALL BE INSTALLED ON BOTH SIDES OF ANTI-ROTATION BAFFLE.

0	06.01.18	ISSUED FOR CONSTRUCTION	LGM	BJA
A	11.29.16	CONCEPTUAL DESIGN	BMM	KMH
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec consultants
 1511 EAST STATE ROAD 434 SUITE 1005 WINTER SPRINGS, FLORIDA P. 407.321.7030

TITLE: **ANTI-ROTATION BAFFLE DETAIL**
 PROJECT: **BONNIE BROOK PUMP STATION RETROFIT**
 LOCATION: **COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA**

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 SIGNATURE: *Benjamin Z. Amos*
 DATE: 6/1/2018



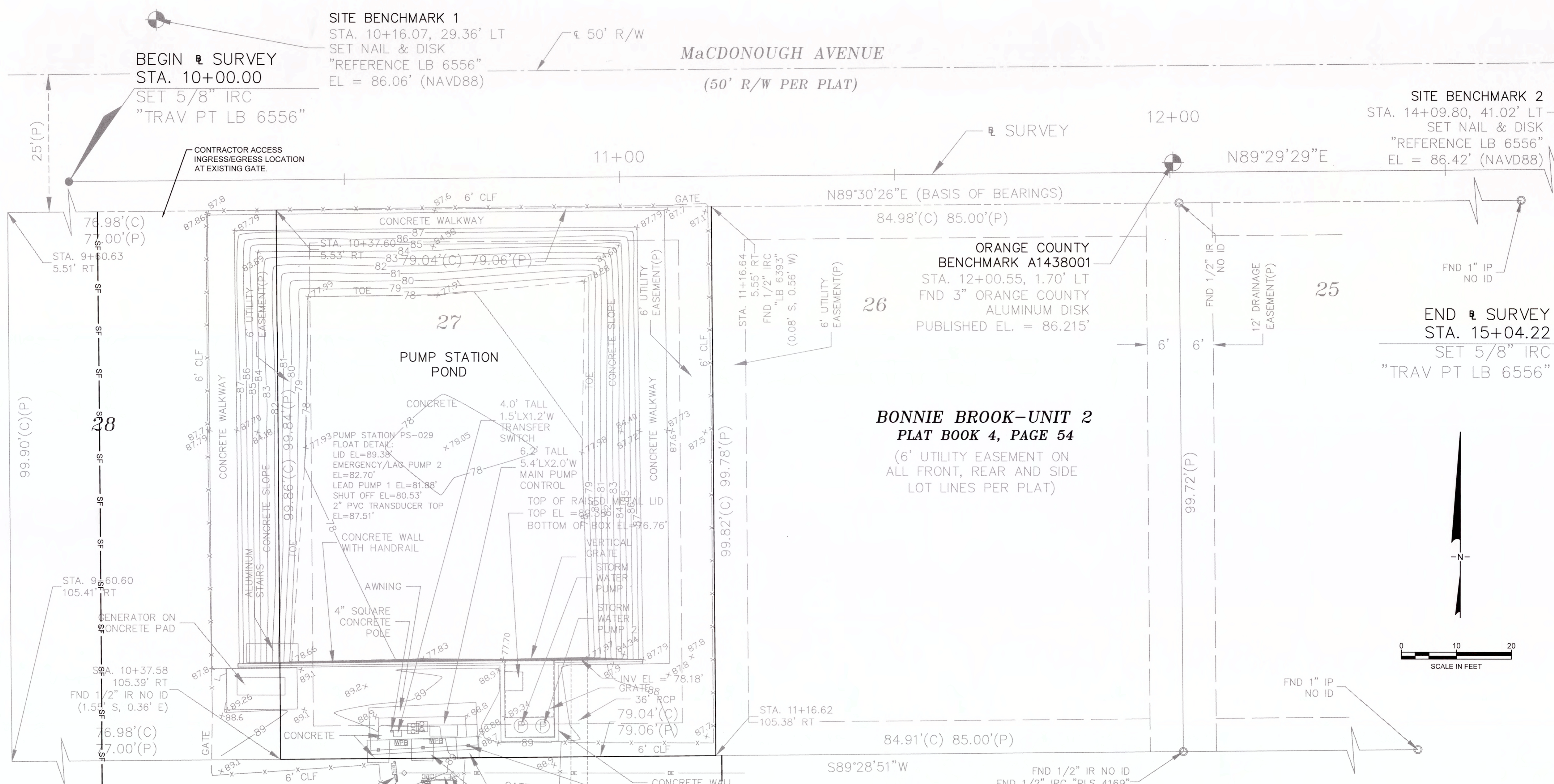
DESIGN BY:	DMB	DATE:	JUNE 1, 2018
DRAWN BY:	WJR	PROJECT NO.:	FW2528
CHECKED BY:	DMB	FILE:	FW2528P060.dwg
REVIEWED BY:	RKR	DRAWING NO.:	08 OF 09
APPROVED BY:	BJA		

FINAL CONSTRUCTION SKETCHES

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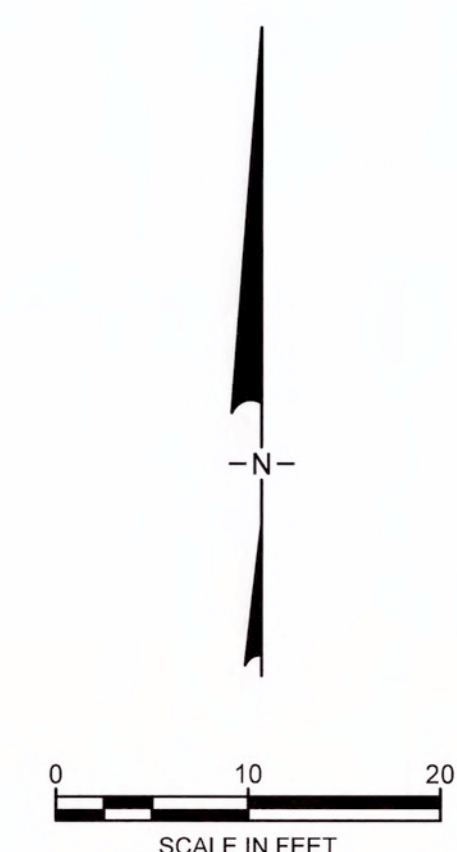
May 31, 2018 - 4:56pm N:harshorn - P:\Projects\ORANGE_SIV_1239\FW2528P060.dwg

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NOTES:

1. STABILIZE ALL DISTURBED AREAS WITHIN RIGHT OF WAY AND EASEMENT WITH SOD PER PAY ITEM 104-14.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTION OF TRANSPORT OF SEDIMENT OFFSITE BY CONSTRUCTION VEHICLES. VEHICLES SHALL BE INSPECTED TO INSURE SEDIMENTS HAVE NOT ACCUMULATED ON TIRES PRIOR TO LEAVING SITE.
3. TEMPORARY EROSION PROTECTION DEVICES SHALL BE INSTALLED PER FDOT EROSION AND SEDIMENT CONTROL MANUAL DATED 2013.
4. CONTRACTOR LAY DOWN TO BE WITHIN THE LIMITS OF THE PUMP STATION PARCEL AND SILT FENCING AS SHOWN.
5. CONTRACTOR TO LIMIT ALL DISTURBANCE TO THOSE AREAS WITHIN THE PUMP STATION AND WITHIN THE SILT FENCE AREA.



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 WINTER SPRINGS, FLORIDA
 P. 407.321.7030

TITLE: **EROSION CONTROL PLAN**
 PROJECT: **BONNIE BROOK PUMP STATION RETROFIT**
 LOCATION: **COMMISSIONER DISTRICT 6 - ORANGE COUNTY, FLORIDA**

DESIGN BY: KMH	DATE: JUNE 1, 2018
DRAWN BY: BMM	PROJECT NO.: FW2528
CHECKED BY: KMH	FILE: FW2528P070.dwg
REVIEWED BY: LGM	DRAWING NO.: 09 OF 09
APPROVED BY: BKA	



Benjamin Amos
 SIGNATURE
 6/1/2018
 DATE

FINAL CONSTRUCTION SKETCHES

May 31, 2018 - 4:54pm N:\hardhorn - P:\Projects\ORANGE_SW_1239\FW2528_BONNIE_BROOK_RETROFIT\CADD\FW2528P070.dwg