

# SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT

CONSTRUCTION PLANS  
FOR

## SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS



SAC PROJECT NO. - 30596  
AECOM PROJECT NO. - 60611019  
MARCH, 2021

BID DOCUMENTS  
MARCH, 2021

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
COVER SHEET	G1.00

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910 CAD\20-SHEETS\G1-00 COVER SHEET.dwg LAYOUT NAME: G1-00 COVER SHEET.dwg PLOTTED: Friday, February 26, 2021 - 8:20am USER: Norma.Pressley

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\G1-01 QUANT.dwg LAYOUT NAME: G1-01 PLOTTED: Friday, February 26, 2021 8:20am USER: Norma.Presley

SUMMARY OF QUANTITIES				
NUM.	ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1	P-101-5.1	PAVEMENT DEMOLITION (CONCRETE, ASPHALT)	1	LS
2	P-101-5.2	MISC DEMOLITION	1	LS
3	P-101-5.3	DRAINAGE DEMOLITION	1	LS
4	C-105-2.1	MOBILIZATION	1	LS
5	GDOT 104	MOT	1	LS
6	P-151-4.1	LIGHT CLEARING AND GRUBBING (FOR INDIVIDUAL TREES)	1	AC
7	P-151-4.2	HEAVY CLEARING AND GRUBBING	14.5	AC
8	P-152-4.1	EXCAVATION AND EMBANKMENT	222,359	CY
9	P-102-5.1	SEDIMENT BARRIER - NON-SENSITIVE AREAS (Sd1-NS)	10,500	LF
10	P-102-5.2	SEDIMENT BARRIER - SENSITIVE AREAS (Sd1-S)	9,000	LF
11	P-102-5.3	INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME (Sd2-F)	17	EA
12	P-102-5.4	ROCK FILTER DAM (Rd)	350	LF
13	P-102-5.5	CONSTRUCTION EXIT (Co)	3	EA
14	P-102-5.6	DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1)	113,000	SY
15	P-102-5.7	DUST CONTROL ON DISTURBED AREAS (Du)	113,000	SY
16	P-102-5.8	STORM DRAIN OUTLET PROTECTION (St)	93	TNS
17	P-102-5.9	FLOATING SURFACE SKIMMER (Sk)	2	EA
18	1000-1	G.A.N.G. FITNESS TRACK MODIFICATIONS	1,000	SY
19	1000-2	OPENCUT PAVEMENT REPLACEMENT AREA 1	1	LS
20	1000-3	OPENCUT PAVEMENT REPLACEMENT AREA 2	1	LS
21	1000-4	OPENCUT PAVEMENT REPLACEMENT AREA 3	1	LS
22	1000-5	OPENCUT PAVEMENT REPLACEMENT AREA 4	1	LS
23	1000-6	OPENCUT PAVEMENT REPLACEMENT AREA 5	1	LS
24	1000-7	OPENCUT PAVEMENT REPLACEMENT AREA 6	1	LS
25	1000-8	OPENCUT PAVEMENT REPLACEMENT AREA 7	1	LS
26	1000-9	OPENCUT PAVEMENT REPLACEMENT AREA 8	1	LS
27	1000-10	OPENCUT PAVEMENT REPLACEMENT AREA 9	1	LS
28	F-162-5.1	8' TYPE E GALVANIZED CHAIN LINK FENCE WITH GALVANIZED POSTS, NO. 7 GAUGE TOP AND BOTTOM TENSION WIRE, AND 3 STRANDS OF GALVANIZED BARBED WIRE ON TYPE 1 EXTENSION ARMS, INSTALLED IN TURF OR PAVEMENT	4,650	LF
29	F-162-5.2	6' TYPE E GALVANIZED CHAIN LINK FENCE WITH GALVANIZED POSTS, NO. 7 GAUGE TOP AND BOTTOM TENSION WIRE, AND 3 STRANDS OF GALVANIZED BARBED WIRE ON TYPE 1 EXTENSION ARMS, INSTALLED IN TURF OR PAVEMENT	400	LF
30	F-162-5.3	REMOVAL OF EXISTING CHAIN LINK FENCE WITH BARBED WIRE	3,985	LF
31	F-162-5.4	TEMPORARY CHAIN-LINK FENCE, 6' HIGH WITH 3 STRANDS BARBED WIRE	4,600	LF
32	F-162-5.5	RE-INSTALL A.O.A. 6' HIGH WITH 3 STRANDS BARBED WIRE 16' SWING GATE @ BOB HARMON RD. AND CORPORATE RD.	1	EA
33	F-162-5.6	G.A.N.G. 8' TYPE E GALVANIZED CHAIN LINK FENCE WITH GALVANIZED POSTS, NO. 7 GAUGE TOP AND BOTTOM TENSION WIRE, AND 3 STRANDS OF GALVANIZED BARBED WIRE ON TYPE 1 EXTENSION ARMS, INSTALLED IN TURF OR PAVEMENT - WITH DEADMAN ANCHORS AND CABLE REINFORCEMENT	190	LF
34	F-162-5.7	G.A.N.G. NEW 16' SWING GATE, DOUBLE LEAF, WITH DEADMAN ANCHORS AND CABLE REINFORCEMENT	1	EA
35	F-162-5.8	NEW RESTRICTED AREA SIGNS FOR NEW FENCE	15	EA
36	D-701-5.1	15" RCP, CLASS III	8	LF
37	D-701-5.2	18" RCP, CLASS III	96	LF
38	D-701-5.3	24" RCP, CLASS III	226	LF
39	D-701-5.4	30" RCP, CLASS III	396	LF
40	D-701-5.5	36" RCP, CLASS III	16	LF
41	D-701-5.6	42" RCP, CLASS III	8	LF
42	D-701-5.7	48" RCP, CLASS III	2,916	LF
43	D-701-5.8	54" RCP, CLASS III	480	LF
44	D-701-5.9	60" RCP, CLASS III	1,268	LF
45	D-701-5.10	14" X 23" ERCP, CLASS IV	56	LF
46	D-701-5.11	38" X 60" ERCP, CLASS IV	1,360	LF

SUMMARY OF QUANTITIES				
NUM.	ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
47	D-701-5.12	CONCRETE COLLAR PIPE CONNECTION, 15" RCP, CLASS III	1	EA
48	D-701-5.13	CONCRETE COLLAR PIPE CONNECTION, 18" RCP, CLASS III	1	EA
49	D-701-5.14	CONCRETE COLLAR PIPE CONNECTION, 24" RCP, CLASS III	2	EA
50	D-701-5.15	CONCRETE COLLAR PIPE CONNECTION, 36" RCP, CLASS III	2	EA
51	D-701-5.16	CONCRETE COLLAR PIPE CONNECTION, 42" RCP, CLASS III	1	EA
52	D-701-5.17	CONCRETE COLLAR PIPE CONNECTION, 48" RCP, CLASS III	2	EA
53	D-751-5.1	STRUCTURE SD01	1	EA
54	D-751-5.1A	STRUCTURE SD01A (INCLUDING SECURITY BAR GRATES)	1	EA
55	D-751-5.2	STRUCTURE SD02A	1	EA
56	D-751-5.2A	STRUCTURE SD02C (INCLUDING SECURITY BAR GRATES)	1	EA
57	D-751-5.3	STRUCTURE SD02B	1	EA
58	D-751-5.3A	STRUCTURE SD02D (INCLUDING SECURITY BAR GRATES)	1	EA
59	D-751-5.4	STRUCTURE SD03	1	EA
60	D-751-5.5	STRUCTURE SD04	1	EA
61	D-751-5.6	STRUCTURE SD10	1	EA
62	D-751-5.7	STRUCTURE SD11	1	EA
63	D-751-5.8	STRUCTURE SD12	1	EA
64	D-751-5.9	STRUCTURE SD12A	1	EA
65	D-751-5.10	STRUCTURE SD13	1	EA
66	D-751-5.11	STRUCTURE SD14	1	EA
67	D-751-5.12	STRUCTURE SD15	1	EA
68	D-751-5.13	STRUCTURE SD16	1	EA
69	D-751-5.14	STRUCTURE SD17	1	EA
70	D-751-5.15	STRUCTURE SD18	1	EA
71	D-751-5.16	STRUCTURE SD19	1	EA
72	D-751-5.17	STRUCTURE SD20	1	EA
73	D-751-5.18	STRUCTURE SD21	1	EA
74	D-751-5.19	STRUCTURE SD22	1	EA
75	D-751-5.20	STRUCTURE SD23	1	EA
76	D-751-5.21	STRUCTURE SD23A	1	EA
77	D-751-5.22	STRUCTURE SD24	1	EA
78	D-751-5.23	STRUCTURE SD25	1	EA
79	D-751-5.24	STRUCTURE SD25A	1	EA
80	D-751-5.25	STRUCTURE SD25B	1	EA
81	D-751-5.26	STRUCTURE SD26	1	EA
82	D-751-5.27	STRUCTURE SD27	1	EA
83	D-751-5.28	STRUCTURE SD28	1	EA
84	D-751-5.29	STRUCTURE SD29	1	EA
85	D-751-5.30	STRUCTURE SD31	1	EA
86	D-751-5.31	STRUCTURE SD32	1	EA
87	D-751-5.32	STRUCTURE SD34	1	EA
88	D-751-5.33	STRUCTURE SD35	1	EA
89	D-751-5.34	STRUCTURE SD35A	1	EA
90	D-751-5.35	STRUCTURE SD36	1	EA
91	D-751-5.36	STRUCTURE SD37	1	EA
92	D-751-5.37	STRUCTURE SD40	1	EA
93	D-751-5.38	STRUCTURE SD40A	1	EA
94	D-751-5.39	STRUCTURE SD41	1	EA
95	D-751-5.40	STRUCTURE SD42	1	EA
96	D-751-5.41	STRUCTURE SD43	1	EA
97	D-751-5.42	STRUCTURE SD44	1	EA
98	D-751-5.43	STRUCTURE SD45	1	EA
99	D-751-5.44	STRUCTURE SD50	1	EA
100	D-751-5.45	STRUCTURE SD51	1	EA
101	D-751-5.46	FABRIFORM REVETMENT	4,400	SY
102	T-901-5.1	HYDROSEEDING	10	AC
103	T-904-5.1	BERMUDA SODDING	63,000	SY

SUMMARY OF QUANTITIES				
NUM.	ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
104	SUC-1	UTILITY CROSSING 2 - 8" WATER	1	EA
105	SUC-2	UTILITY CROSSING 3 - 8" WATER	1	EA
106	SUC-3	UTILITY CROSSING 5 - 8" SANITARY	1	EA
107	SUC-4	UTILITY CROSSING 6 - 8" SANITARY	1	EA
108	SUC-5	UTILITY CROSSING 7 - 8" SANITARY	1	EA
109	SUC-6	UTILITY CROSSING 8 - 8" WATER	1	EA
110	SUC-7	UTILITY CROSSING 9 - 8" WATER	1	EA
111	SUC-8	UTILITY CROSSING 11 - 8" WATER	1	EA
112	SUC-9	UTILITY CROSSING 12 - 8" WATER	1	EA
113	SUC-10	UTILITY CROSSING 14 - 24" WATER (RELOCATION)	1	EA
114	SUC-11	UTILITY CROSSING 16 - 8" WATER	1	EA
115	SUC-12	UTILITY CROSSING 17 - 8" WATER	1	EA
116	SUC-13	UTILITY CROSSING 18 - 8" WATER	1	EA
117	SUC-14	UTILITY CROSSING 25 - 6" WATER	1	EA
118	SUC-15	UTILITY CROSSING 26 - 6" SANITARY FM	1	EA
119	SUC-16	UTILITY CROSSING 30 - 30" WATER (RELOCATION)	1	EA
120	SUC-17	UTILITY CROSSING 33 - 8" WATER	1	EA
121	SUC-18	UTILITY CROSSING 34 - 8" WATER	1	EA
122	SUC-19	UTILITY CROSSING 41 - 20" SANITARY FM	1	EA
123	SUC-20	UTILITY CROSSING 42 - 20" SANITARY FM	1	EA
124	DUC-1	UTILITY CROSSING 1 - UC	1	EA
125	DUC-2	UTILITY CROSSING 4 - UC	1	EA
126	DUC-3	UTILITY CROSSING 10 - UC	1	EA
127	DUC-4	UTILITY CROSSING 13 - UC	1	EA
128	DUC-5	UTILITY CROSSING 15 - UKN	1	EA
129	DUC-6	UTILITY CROSSING 19 - GAS	1	EA
130	DUC-7	UTILITY CROSSING 20 - UC	1	EA
131	DUC-8	UTILITY CROSSING 21 - UC	1	EA
132	DUC-9	UTILITY CROSSING 22 - GAS	1	EA
133	DUC-10	UTILITY CROSSING 23 - UC	1	EA
134	DUC-11	UTILITY CROSSING 24 - UC	1	EA
135	DUC-12	UTILITY CROSSING 27 - UKN	1	EA
136	DUC-13	UTILITY CROSSING 28 - UE	1	EA
137	DUC-14	UTILITY CROSSING 29 - UC	1	EA
138	DUC-15	UTILITY CROSSING 31 - GAS	1	EA
139	DUC-16	UTILITY CROSSING 32 - UE	1	EA
140	DUC-17	UTILITY CROSSING 35 - UC	1	EA
141	DUC-18	UTILITY CROSSING 36 - UC	1	EA
142	DUC-19	UTILITY CROSSING 37 - UC	1	EA
143	DUC-20	UTILITY CROSSING 38 - UE	1	EA
144	DUC-21	UTILITY CROSSING 39 - UC	1	EA
145	DUC-22	POWER POLE RELOCATION	7	EA
146	A-1	GATE SECURITY GUARD ALLOWANCE	1	AL

NOTES:

- THE DESIGN DRAWINGS REFLECT INSTALLATION OF RCP. HDPE N-12 PIPE WITH PROPER BEDDING MAY BE USED AT THE CONTRACTOR'S OPTION FOR ROUND PIPE IN ALL AREAS EXCLUDING UNDER DAVIDSON DRIVE.

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<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>SUMMARY OF PROJECT QUANTITIES</b>	<b>G1.01</b>



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C4.12	GRADING AND DRAINAGE PLAN (2)	C5.64	EROSION CONTROL PLAN FINAL PHASE (4)	X2.08	WET DETENTION POND NO. 2 CROSS SECTIONS (8)		
C4.13	GRADING AND DRAINAGE PLAN (3)	C5.65	EROSION CONTROL PLAN FINAL PHASE (5)	X2.09	WET DETENTION POND NO. 2 CROSS SECTIONS (9)		
C4.14	GRADING AND DRAINAGE PLAN (4)	C5.66	EROSION CONTROL PLAN FINAL PHASE (6)	X2.10	WET DETENTION POND NO. 2 CROSS SECTIONS (10)		
C4.15	GRADING AND DRAINAGE PLAN (5)	C5.67	EROSION CONTROL PLAN FINAL PHASE (7)	X2.11	WET DETENTION POND NO. 2 CROSS SECTIONS (11)		
C4.16	GRADING AND DRAINAGE PLAN (6)	C5.68	EROSION CONTROL PLAN FINAL PHASE (8)	X2.12	WET DETENTION POND NO. 2 CROSS SECTIONS (12)		
C4.17	GRADING AND DRAINAGE PLAN (7)	C5.69	EROSION CONTROL PLAN FINAL PHASE (9)	X2.13	WET DETENTION POND NO. 2 CROSS SECTIONS (13)		
C4.18	GRADING AND DRAINAGE PLAN (8)	C5.70	EROSION CONTROL PLAN FINAL PHASE (10)	X2.14	WET DETENTION POND NO. 2 CROSS SECTIONS (14)		
C4.19	GRADING AND DRAINAGE PLAN (9)	C5.71	EROSION CONTROL PLAN FINAL PHASE (11)	X2.15	WET DETENTION POND NO. 2 CROSS SECTIONS (15)		
C4.20	GRADING AND DRAINAGE PLAN (10)			X2.16	WET DETENTION POND NO. 2 CROSS SECTIONS (16)		
C4.21	GRADING AND DRAINAGE PLAN (11)			X2.17	WET DETENTION POND NO. 2 CROSS SECTIONS (17)		
				X2.18	WET DETENTION POND NO. 2 CROSS SECTIONS (18)		
				X2.19	WET DETENTION POND NO. 2 CROSS SECTIONS (19)		
				X2.20	WET DETENTION POND NO. 2 CROSS SECTIONS (20)		
				X2.21	WET DETENTION POND NO. 2 CROSS SECTIONS (21)		
				X2.22	WET DETENTION POND NO. 2 CROSS SECTIONS (22)		
				X2.23	WET DETENTION POND NO. 2 CROSS SECTIONS (23)		

SUPPLEMENTAL DRAWINGS

SV.01	SUPPLEMENTAL SURVEY
SV.02	SUPPLEMENTAL SURVEY
SV.03	SUPPLEMENTAL SURVEY
SV.04	SUPPLEMENTAL SURVEY
SV.05	SUPPLEMENTAL SURVEY
SV.06	SUPPLEMENTAL SURVEY
SV.07	SUPPLEMENTAL SURVEY
SV.08	SUPPLEMENTAL SURVEY
SV.09	SUPPLEMENTAL SURVEY
SV.10	SUPPLEMENTAL SURVEY
SV.11	SUPPLEMENTAL SURVEY

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRmg\Design\900-Work\910\_CAD\20-SHEETS\G1-02\_SHT INDEX.dwg LAYOUT NAME: G1-02\_PLOTTED: Friday, February 26, 2021 - 8:20am USER: Norma Pressley

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PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>INDEX OF DRAWINGS</b>	<b>G1.02</b>



CONTRACTOR'S SAFETY AND SECURITY REQUIREMENTS

SAFETY

- 1. THE CONTRACTOR SHALL ACQUAINT ITS SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITY AND OPERATIONS THAT ARE INHERENT IN THIS ACTIVE AIR CARRIER AIRPORT AND SHALL CONDUCT ITS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY AS SPECIFIED IN THE SUPPLEMENTARY GENERAL PROVISIONS OF THE CONTRACT DOCUMENTS.
2. ALL CONTRACTOR VEHICLES THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT OUTSIDE OF THE DESIGNATED CONSTRUCTION AREA LIMITS OR HAUL ROUTES AS SPECIFIED ON THE PLANS AND IN THE ACTIVE AIRCRAFT OPERATIONS AREA (AOA) SHALL: DISPLAY IN FULL VIEW ABOVE THE VEHICLE, A 3' X 3' OR LARGER, ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE; AND BE ESCORTED AND UNDER THE CONTROL OF ONE CONTRACTOR'S MOBILE (TWO-WAY) RADIO OPERATOR ON THE JOB AT ALL TIMES. ANY VEHICLE OPERATING IN THE ACTIVE AOA DURING THE HOURS OF DARKNESS SHOULD BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME-TYPE LIGHT, MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES.
3. ALL CONTRACTOR VEHICLES THAT ARE REQUIRED TO CROSS ACTIVE RUNWAYS AND TAXIWAYS OR RUNWAY PROTECTION ZONES SHALL DO SO UNDER THE DIRECT CONTROL OF A FLAGMAN WHO IS IN DIRECT (TWO-WAY) RADIO COMMUNICATION WITH THE GROUND CONTROLLER OF THE AIR TRAFFIC CONTROL TOWER, ON GROUND CONTROL FREQUENCY 121.9. THE FLAGMAN AND RADIO OPERATOR SHALL BE TRAINED AND INSTRUCTED BY THE AIRPORT MANAGEMENT IN THE REGULATIONS GOVERNING OPERATIONS ON THE AOA. THE FLAG AND RADIO OPERATOR SHALL REMAIN WITH HIS VEHICLE AT ALL TIMES. FLAGMAN AND TWO-WAY RADIO SHALL BE FURNISHED BY THE CONTRACTOR. CONTRACTOR VEHICLES THAT ARE REQUIRED TO CROSS ACTIVE TAXIWAYS OR APRONS WHO DO SO UNDER THE DIRECT CONTROL OF A FLAGMAN (WITHOUT RADIO CONTROL) WHO IS TRAINED AND INSTRUCTED BY THE AIRPORT MANAGEMENT IN REGULATIONS GOVERNING OPERATIONS ON THE AOA. ALL AIRCRAFT TRAFFIC ON RUNWAYS, TAXIWAYS AND APRONS SHALL HAVE PRIORITY OVER CONTRACTOR'S TRAFFIC.
4. NO RUNWAY, TAXIWAY, APRON OR AIRPORT ROADWAY SHALL BE CLOSED WITHOUT WRITTEN APPROVAL OF THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS TRANSMITTED BY THE RESIDENT ENGINEER, TO ENABLE NECESSARY "NOTICES TO AIRMEN" (NOTAM) OR ADVISORIES TO AIRPORT SERVICE OR TENANTS. A MINIMUM OF 48 HOURS NOTICE OF REQUESTED CLOSING SHALL BE DIRECTED TO THE RESIDENT ENGINEER, WHO WILL COORDINATE THE REQUEST WITH SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS.
5. ANY CONSTRUCTION ACTIVITY WITHIN 200' OF AN ACTIVE RUNWAY EDGE OR 100' FROM AN ACTIVE TAXIWAY EDGE OR OPEN EXCAVATIONS IN EXCESS OF 3-INCHES DEEP WITHIN THE ABOVE AREAS, WILL REQUIRE CLOSURE OF THE AFFECTED RUNWAY OR TAXIWAY UNLESS OTHERWISE APPROVED BY SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS. CLOSURE REQUIRES THE SAME PROVISIONS AS PARAGRAPH 4 ABOVE.
6. OPEN FLAME, WELDING, OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED BY THE COUNTY, THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT, AND THE AIRPORT FIRE DEPARTMENT.
7. STOCKPILE MATERIAL SHOULD BE CONSTRAINED IN A MANNER TO PRECLUDE MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR WIND CONDITIONS IN EXCESS OF 10 KNOTS.
8. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL LOCATED IN THE AOA SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHTED BY APPROVED LIGHT UNITS DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS.
9. DEBRIS WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR AND PROPELLERS OR BEING INGESTED IN JET ENGINES SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS. IF THESE MATERIAL ARE OBSERVED TO BE ON ACTIVE AIRCRAFT MOVEMENT AREAS, THEY SHALL BE REMOVED IMMEDIATELY AND/OR CONTINUOUSLY DURING CONSTRUCTION.
10. THE RESIDENT ENGINEER WILL ARRANGE WITH SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS FOR INSPECTION PRIOR TO OPENING FOR AIRCRAFT USE ANY RUNWAY OR TAXIWAY THAT HAS BEEN CLOSED FOR WORK, ON OR ADJACENT THERETO, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR.
11. THE CONTRACTOR'S SECURITY OFFICER (C.S.O.) WILL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS. PRIOR TO THE COMMENCEMENT OF THE WORK, THE C.S.O. SHALL PROVIDE THE RESIDENT ENGINEER AN OUTLINE OF A PROPOSED ACCIDENT AND FIRE PROTECTION PLAN FOR ALL WORK CONTEMPLATED UNDER THE CONTRACT AND CONDUCT AT LEAST ONE SAFETY MEETING EACH MONTH FOR EACH SHIFT AND REQUIRE THE ATTENDANCE OF ALL SUPERVISORS AT SUCH MEETINGS. COPIES OF THE MINUTES OF SAFETY MEETING SHALL BE KEPT ON FILE IN THE CONTRACTOR'S FIELD OFFICE AND AVAILABLE UPON DEMAND BY THE RESIDENT ENGINEER.

SECURITY

- 1. GENERAL INTENT: THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE TO THE RESIDENT ENGINEER IN WRITING, THE NAME OF HIS "CONTRACTOR SECURITY OFFICER" (C.S.O.). THE C.S.O. SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT.
2. CONSTRUCTION SECURITY COMMITTEE: THE COMMITTEE SHALL BE ESTABLISHED CONCURRENT WITH THE LIFE OF THIS CONTRACT TO MONITOR, COORDINATE AND ADOPT NEW SECURITY PROVISIONS, IF REQUIRED, ON ALL MATTERS OF AIRPORT SECURITY RELATING TO THIS CONTRACT. MEETINGS SHALL BE SCHEDULED BY THE AIRPORT RESIDENT ENGINEER. COMMITTEE MEMBERSHIP SHALL INCLUDE THE "CONTRACTOR SECURITY OFFICER," RESIDENT ENGINEER, CONTRACTOR'S SUPERINTENDENT AND ONE REPRESENTATIVE EACH FROM SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS, FAA-SECURITY DIVISION, GEORGIA DEPARTMENT OF TRANSPORTATION AND FAA AIR TRAFFIC CONTROL TOWER. IN THE EVENT THAT SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT MAY REVISE AND/OR MODIFY THE GENERAL REQUIREMENTS IN ORDER TO MAINTAIN THE SAFETY AND SECURITY OF OPERATIONS ON THE AIRPORT, THE CONTRACTOR SHALL COOPERATE IN IMPLEMENTING ANY NECESSARY CHANGES IN THE WORK AND SHALL NOT BE ENTITLED TO MAKE ANY CLAIM FOR EXTRA COMPENSATION. IN ADDITION, THE CONTRACTOR IS ADVISED THAT CERTAIN RULES AND RESTRICTIONS, AS CONTAINED IN FAA CIRCULAR 150/5370-2G AND AUGMENTED BY THESE PLANS AND SPECIFICATIONS, WILL APPLY TO THE WORK.
3. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE CONTRACTOR SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS FROM TIME TO TIME, AND OTHER SECURITY PROVISIONS ADOPTED BY THE CONSTRUCTION SECURITY COMMITTEE. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA. ALL CONTRACTOR EMPLOYEES ON SITE SHALL HAVE A GOVERNMENT ISSUED PHOTO IDENTIFICATION. THE CONTRACTOR SHALL UTILIZE THE U.S. DEPARTMENT OF HOMELAND SECURITY'S E-VERIFY SYSTEM TO VERIFY THE EMPLOYMENT ELIGIBILITY OF ALL PERSONS EMPLOYED BY THE CONTRACTOR DURING THE PROJECT DURATION.
4. ACCESS TO THE SITE: CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY THE RESIDENT ENGINEER. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR GUIDED BY CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT WILL CONTROL ACCESS AT THE GATE. A CONTRACTOR'S FLAG MAN OR TRAFFIC CONTROL PERSON SHALL MONITOR AND COORDINATE ALL CONTRACTOR TRAFFIC AT THE ACCESS GATE WITH SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT SECURITY. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR IMMEDIATE CLEAN UP OF ANY DEBRIS DEPOSITED ALONG THE ACCESS ROUTE AS A RESULT OF HIS CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA, PLANT SITE, OR WORK SITE SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
5. MATERIAL DELIVERY TO THE SITE: ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE AS A DELIVERY ADDRESS THE STREET NAME ASSIGNED TO THE ACCESS POINT AT THE CONTRACTOR'S STORAGE SITE AT THE AIRPORT. THE NAME "SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS AT ANY TIME. THIS WILL PRECLUDE DELIVERY TRUCKS FROM ENTERING INTO THE TERMINAL COMPLEX, OR TAKING SHORT CUTS THROUGH THE PERIMETER GATES AND ENTERING INTO AIRCRAFT OPERATIONS AREAS INADVERTENTLY.
6. CONSTRUCTION AREA LIMITS: THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, PLANT SITE, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTORS EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, MARKING AND/OR WARNING DEVICES VISIBLE FOR DAY/NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHT WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT OPERATIONS.
7. IDENTIFICATION - VEHICLES OPERATING INSIDE THE SECURED AIRPORTS OPERATIONS AREA: THE CONTRACTOR, THROUGH THE CONTRACTOR SECURITY OFFICER, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTORS AND SUBCONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE AND SHALL ISSUE A PERMIT TO EACH VEHICLE TO BE MADE AVAILABLE UPON DEMAND BY THE RESIDENT ENGINEER OR ANY AIRPORT SECURITY OFFICER. VEHICLES DELIVERING MATERIALS TO THE CONSTRUCTION SITE SHALL PICK UP A TEMPORARY PASS AT THE ACCESS GATE. VEHICLE PERMITS SHALL BE ASSIGNED IN A MANNER TO ASSURE POSITIVE IDENTIFICATION OF THE UNIT AT ALL TIMES. IN LIEU OF ISSUING INDIVIDUAL VEHICLE PERMITS THE C.S.O. CAN REQUIRE EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN ON BOTH SIDES OF VEHICLE, AND PROVIDE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT SECURITY AND OPERATIONS WITH A CURRENT LIST OF COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRPORT. CONTRACTOR EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S STAGING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

GENERAL

- 1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS OR SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT, THE FEDERAL AVIATION ADMINISTRATION (FAA) AND OTHER GOVERNING AGENCIES.
2. LIQUIDATED DAMAGES, AS STATED IN THE SPECIFICATIONS AND IN THE CONTRACT AGREEMENT, SHALL APPLY TO THIS PROJECT.
3. CONSTRUCTION WILL OCCUR WITHIN THE AIR OPERATIONS AREA (AOA). THIS IS A CLOSELY MAINTAINED SECURITY AREA WITH RESTRICTED ACCESS. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THIS AREA AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THE AOA. FURTHER, IT WILL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO KEEP ADVISED OF ANY CHANGES IN THESE REQUIREMENTS AND TO ADHERE TO CURRENT REGULATIONS.
4. BECAUSE THE CONSTRUCTION IS ON OR NEAR ACTIVE RUNWAY, TAXILANES AND APRONS, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO THE OWNER AND THE FEDERAL AVIATION ADMINISTRATION (FAA) TO PROVIDE ACCEPTABLE LEVELS OF SAFETY FOR ALL AIRPORT OPERATIONS.
5. EACH CONTRACTOR INVOLVED SHALL ASSUME ALL LIABILITY, FINANCIAL OR OTHERWISE, IN CONNECTION WITH THEIR CONTRACT AND SHALL PROTECT AND SAVE HARMLESS THE OWNER FROM ANY AND ALL DAMAGES OR CLAIMS THAT MAY ARISE BECAUSE OF INCONVENIENCES, DELAYS, OR LOSS EXPERIENCED BY THEM BECAUSE OF THE PRESENCE AND OPERATIONS OF HIS SUB-CONTRACTORS WORKING WITHIN THE LIMITS OF THE SAME PROJECT.

CONTRACTOR REQUIREMENTS

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY ALL PERMIT FEES. COSTS FOR PERMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
2. THE CONTRACTOR MUST OBTAIN PROPER PERMITS FOR DELIVERY OF MATERIALS AND EQUIPMENT TO THE SITE. ANY DAMAGE TO OFF-SITE ROADS SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
3. ALL CONTRACTOR'S VEHICLES AND TRAFFIC (UNLESS OTHERWISE AUTHORIZED) SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.
4. THE CONTRACTOR SHALL CONTROL DUST FROM OPERATIONS TO A LEVEL ACCEPTABLE TO THE AIRPORT AND ENGINEER AT ALL TIMES. THE CONTRACTOR SHALL HAVE AVAILABLE VACUUM BROOMS, WATERING TRUCKS AND OTHER EQUIPMENT NECESSARY TO CONTROL DUST AND DEBRIS AT ALL TIMES. ALL METHODS FOR CONTROLLING DUST AND DEBRIS SHALL BE SUBJECT TO THE AIRPORT'S APPROVAL. DUST AND DEBRIS CONTROL SHALL BE STRICTLY MONITORED DUE TO ITS IMPACT ON AIRCRAFT SAFETY. FAILURE TO PROPERLY CONTROL DUST AND DEBRIS OR TO RESPOND TO ANY REQUESTS TO DO SO WILL RESULT IN CONSTRUCTION ACTIVITIES BEING STOPPED.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS THAT ARE PERTINENT TO THIS WORK.
6. ALL CONSTRUCTION ACTIVITY WITHIN A SAFETY AREA WILL REQUIRE THE CLOSURE OF A TAXIWAY, TAXILANE, APRON OR A DESIGNATED AREA. THE CONTRACTOR SHALL REQUEST, THROUGH THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT PROJECT MANAGER, THE CLOSURE OF THE REQUIRED PORTION OF PAVEMENT. THIS REQUEST SHALL INCLUDE THE TIMES REQUESTED AND THE CONTRACTOR'S PROPOSED DETAILED SCHEDULE OF OPERATIONS WITHIN THE AREA. THE CONTRACTOR IS ADVISED THAT THERE MAY BE CONSTRUCTION AND AIRFIELD MAINTENANCE THAT MAY REQUIRE TAXILANE, OR APRON CLOSURES, THEREFORE; CLOSE COORDINATION BY THE CONTRACTOR WITH THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT PROJECT MANAGER IS REQUIRED.
7. BEFORE RECEIVING A NOTICE TO PROCEED, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A DETAILED CRITICAL PATH METHOD SCHEDULE OF WORK FOR EACH PHASE OF CONSTRUCTION INCLUDING THE VARIOUS REQUIRED PAVEMENT CLOSURES.
8. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE DONE IN SUCH A MANNER THAT, AT THE END OF THE CLOSURE PERIOD, THE AREA WILL BE IN A CONDITION SUITABLE FOR AIRPORT OPERATIONS, SUBJECT TO AIRPORT AND ENGINEER APPROVAL.

COORDINATION AND OPERATIONS

- 1. THE CONTRACTOR SHALL ACQUAINT HIS SUPERVISORS AND EMPLOYEES TO THE AIRPORT ACTIVITY AND OPERATIONS THAT ARE INHERENT TO THIS AIRPORT. HE SHALL CONDUCT HIS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES AS NOTED AND/OR SHOWN ON THE PLANS AND THE SAFETY AND SECURITY REQUIREMENTS DETAILED IN THE SPECIFICATIONS.
2. THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS, SCHEDULING, SAFETY, ETC. WITH THE ENGINEER, THE AIRPORT, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR AND COPIES DISTRIBUTED TO ALL APPROPRIATE INDIVIDUALS.
3. CONSTRUCTION AND MAINTENANCE OPERATIONS BY OTHERS MAY OCCUR CONCURRENTLY AND AT TIMES IN THE VICINITY OF CONSTRUCTION ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS AND COOPERATE WITH MAINTENANCE CREWS AND OTHER CONTRACTORS WORKING ON THE AIRPORT. COORDINATION WITH APPROPRIATE GOVERNMENT AND UTILITY AGENCIES IS ALSO REQUIRED.

GENERAL CONTRACT NOTES

MATERIALS AND EQUIPMENT

- 1. ALL MATERIALS AND EQUIPMENT, WHEN NOT IN USE, SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS. ALL EQUIPMENT SHALL BE STORED IN A LOWERED CONFIGURATION WHEN NOT IN USE. THE APPROVED STORAGE AREA FOR EQUIPMENT AND MATERIALS IS THE CONTRACTOR'S STAGING AREA. ANY OTHER AREAS TO BE USED FOR STORAGE MUST BE APPROVED BY THE AIRPORT'S PROJECT MANAGER. EQUIPMENT AND STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR WIND CONDITIONS.
2. ALL EXCESS EXCAVATED MATERIAL, UNSUITABLE MATERIAL AND CONSTRUCTION DEBRIS SHALL BE PROMPTLY DISPOSED OF OFF AIRPORT PROPERTY UNLESS DIRECTED OTHERWISE BY THE AIRPORT.
3. ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE A DELIVERY ADDRESS. THE DELIVERY ADDRESS SHALL BE ESTABLISHED AT THE PRE-CONSTRUCTION CONFERENCE.

CONSTRUCTION LAYOUT

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. EXISTING AND PROPOSED GRADES ARE SHOWN ON THE DRAWINGS. EXISTING GRADES SHOWN ARE BELIEVED TO BE ACCURATE, BUT THE AIRPORT OWNER NOT THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE ACCURACY OF THESE GRADES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES WITH THE ELEVATIONS GIVEN ON THE DRAWINGS. FAILURE TO NOTIFY THE ENGINEER SHALL RESULT IN A WAIVER OF THE CONTRACTOR'S RIGHT FOR A CHANGE ORDER. ALL ELEVATIONS ARE BASED UPON THE STATE PLANE DATUM.
2. THE VERTICAL CONTROL ON THIS PROJECT IS TIED TO BENCH MARKS LOCATED ON THE AIRPORT. ALL EXISTING SURVEY MONUMENTS SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION. ALL MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESET BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

EXISTING UTILITY & NAVIGATIONAL FACILITIES

- 1. BEFORE ANY WORK IS STARTED ON ANY PHASE OF THIS PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT, REPRESENTATIVES OF THE CONTRACTOR AND THE AIRPORT SHALL MAKE AN INSPECTION OF THE EXISTING STORM SEWERS, CATCH BASINS, MANHOLES, ELECTRICAL MANHOLES, HANDHOLES, DUCT BANKS, WHICH ARE TO REMAIN IN SERVICE OR WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION WILL BE KEPT BY THE AIRPORT. THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT A VIDEO TAPE OR DIGITAL PICTURES OF SURFACE AND SEWER CONDITIONS IN THE PROJECT AREA BEFORE START OF WORK AND UPON COMPLETION OF THE PROJECT.
2. ALL EXISTING FACILITIES, INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES, SHALL BE PROTECTED, MAINTAINED, AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGES IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS SOLE EXPENSE TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR ACCESS & STORAGE AREAS

- 1. THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE AS SHOWN ON THE CONTRACT LAYOUT AND PHASING PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VEHICLES AND PERSONNEL WHO ENTER THROUGH THESE GATES. GATES SHALL BE LOCKED WHEN NOT IN USE.
2. AREAS WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S MOBILIZATION AND STAGING AS SHOWN ON THE CONTRACT LAYOUT AND PHASING PLANS. THESE AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. ON-SITE EMPLOYEE PARKING SHALL BE ADDRESSED AT THE PRE-CONSTRUCTION CONFERENCE.

HAUL ROUTES

- 1. LOCATION OF HAUL ROUTES AND STAGING AREAS ON THE AIRPORT SITE SHALL BE AS SHOWN ON THE CONTRACT LAYOUT AND PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES AND STAGING AREAS SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE AT THE CONTRACTOR'S EXPENSE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES AND STAGING AREAS SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE CONTRACTOR, AIRPORT, AND/OR ENGINEER. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OR DIGITAL PICTURES OF ALL ON-SITE HAUL ROUTES AND STAGING AREAS BEFORE START OF WORK AND UPON COMPLETION. FENCING, DRAINAGE, SEDIMENT CONTROL, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE AIRPORT PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
2. USE OF UNAUTHORIZED HAUL ROUTES WILL NOT BE ACCEPTABLE. THE CONTRACTOR SHALL ONLY USE THE HAUL ROUTES APPROVED BY THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT PROJECT MANAGER. THE HAUL TRUCKS MUST BE COVERED AT ALL TIMES. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THE HAUL ROUTE WITH A POWER VACUUM DURING ALL PERIODS WHEN HAULING. FAILURE TO MAINTAIN THE HAUL ROUTE IN AN ACCEPTABLE MANNER WILL RESULT IN SUSPENSION OF WORK. IN THE EVENT THAT ANY FOREIGN OBJECT, SPILLAGE, DEBRIS OR DUST BUILDS UP AS A RESULT OF HAULING, THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY CLEAN AND REMOVE THE MATERIAL.

UNDERGROUND UTILITIES

- 1. THE LOCATION OF THE UNDERGROUND UTILITIES AND FAA CABLES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE BELIEVED TO BE THE BEST INFORMATION AT THE TIME OF PLAN PREPARATION. NO GUARANTEE IS MADE AS TO THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION. ANY UNDERGROUND UTILITIES LOCATED WHICH DO NOT APPEAR ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY DAMAGE TO UTILITIES, CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
2. INTERRUPTION TO EXISTING AIRFIELD LIGHTING SYSTEMS NOT INCLUDED IN THIS PROJECT SHALL NOT BE PERMITTED. ALL AIRFIELD ELECTRICAL CIRCUITS AFFECTED BY THIS PROJECT SHALL BE PROTECTED AND MAINTAINED DURING OPERATIONAL PERIODS BY THE CONTRACTOR. THE CONTRACTOR AT HIS EXPENSE SHALL IMMEDIATELY REPAIR, WITH IDENTICAL MATERIAL AND BY SKILLED WORKMEN, ANY UNDERGROUND CABLES SERVING FAA NAVAIDS, WEATHER BUREAU AND/OR OTHER AIRPORT FACILITIES, WHICH ARE DAMAGED BY HIS WORKMEN, EQUIPMENT OR WORK. PRIOR WRITTEN APPROVAL OF THE FAA MUST BE OBTAINED FOR THE MATERIALS, WORKMEN, TIME OF DAY OR NIGHT, METHOD OF REPAIRS, AND FOR ANY TEMPORARY OR PERMANENT REPAIRS THE CONTRACTOR PROPOSES TO MAKE TO ANY FAA NAVAIDS AND FACILITIES DAMAGED BY THE CONTRACTOR. LIKE APPROVAL MUST BE OBTAINED FROM THE AIRPORT'S PROJECT MANAGER OR FROM THE REPRESENTATIVE DESIGNATED BY THE AIRPORT MANAGEMENT FOR ANY REPAIRS THE CONTRACTOR PROPOSES TO MAKE TO ANY OTHER AIRPORT FACILITIES AND CABLES DAMAGED BY THE CONTRACTOR. SUCH REPAIRS MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETE. ANY FAA CABLE AND OR CONDUIT DAMAGED MUST BE REPLACED FROM FIXTURE TO FIXTURE IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF AN FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE ANY REPAIR PERFORMED BY OTHERS BUT THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS.

SUPERVISION

- 1. THE PRIME CONTRACTOR SHALL HAVE AT ALL TIMES ON SITE, WHILE WORK IS IN PROGRESS, A JOB SUPERINTENDENT/FOREMAN. THIS PERSON SHALL BE FAMILIAR WITH ALL TYPES OF CONSTRUCTION BEING PERFORMED AND SHALL BE THE SAME PERSON EACH DAY THROUGHOUT THE PROJECT. THE SUPERINTENDENT/FOREMAN SHALL HAVE THE RESPONSIBILITY OF COORDINATING EACH DAY'S WORK WITH THE AIRPORT OR AUTHORIZED REPRESENTATIVE AND SHALL HAVE AUTHORITY TO SCHEDULE AND ADJUST ALL WORKERS, PRIME AND SUB-CONTRACTORS, TO ACCOMMODATE AIRPORT OPERATION AS DIRECTED BY THE AIRPORT PERSONNEL OR AUTHORIZED REPRESENTATIVE.
2. ALL PERSONNEL SHALL CLEAR THE CONSTRUCTION AREA ONCE WORK HAS STOPPED FOR THE DAY OR EVENING. ALL MECHANICS NEEDING ACCESS TO THE AOA DURING DAYS, EVENINGS AND WEEKENDS TO WORK ON CONSTRUCTION EQUIPMENT SHALL BE ESCORTED AND HAVE THEIR VEHICLES IDENTIFIED WITH THE CONTRACTOR'S NAME AND APPROPRIATE LIGHTING.

CONTRACTOR'S VEHICLES

- 1. ALL CONTRACTOR VEHICLES SHALL BE IN GOOD WORKING ORDER. ALL CONTRACTOR VEHICLES SHALL BE ESCORTED WHILE INSIDE THE A.O.A THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ESCORTS WITH THE AIRPORT'S PROJECT MANAGER.
2. ALL CONTRACTOR VEHICLES/EQUIPMENT THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORTS A.O.A. SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE/EQUIPMENT A 3"x3" (MIN.) ORANGE AND WHITE CHECKER BOARD FLAG (DAY OPERATIONS). EACH CHECKER BOARD COLOR BEING ONE SQUARE FOOT. ANY VEHICLE OPERATING ON THE A.O.A. SHALL ALSO BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME TYPE LIGHT, MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL AND FEDERAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES (DAY OR NIGHT OPERATIONS).

CONTACT INFORMATION:

SAVANNAH AIRPORT COMMISSION
AIRPORT PROJECT MANAGER:
MARK DENMARK - 912-964-0514

GAANG
FRANCISCO ORELLANA, GS-12
GoENVIRONMENTAL PROGRAM MANAGER 165AW/CEIE
W: 912-966-8336
C: 912-856-8164

FAA
MARIA K. ZINGG
TECHNICAL OPERATIONS
COLUMBIA DISTRICT
SAVANNAH SSC MANAGER
O: 912-964-3160
C: 912-210-3105

CALL BEFORE YOU DIG -- UTILITIES PROTECTION CENTER
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

Table with 4 columns: DATE, DESCRIPTION, BY, AUTH. Row 1: MAR. 2021, BID DOCUMENTS, APD, RWP.



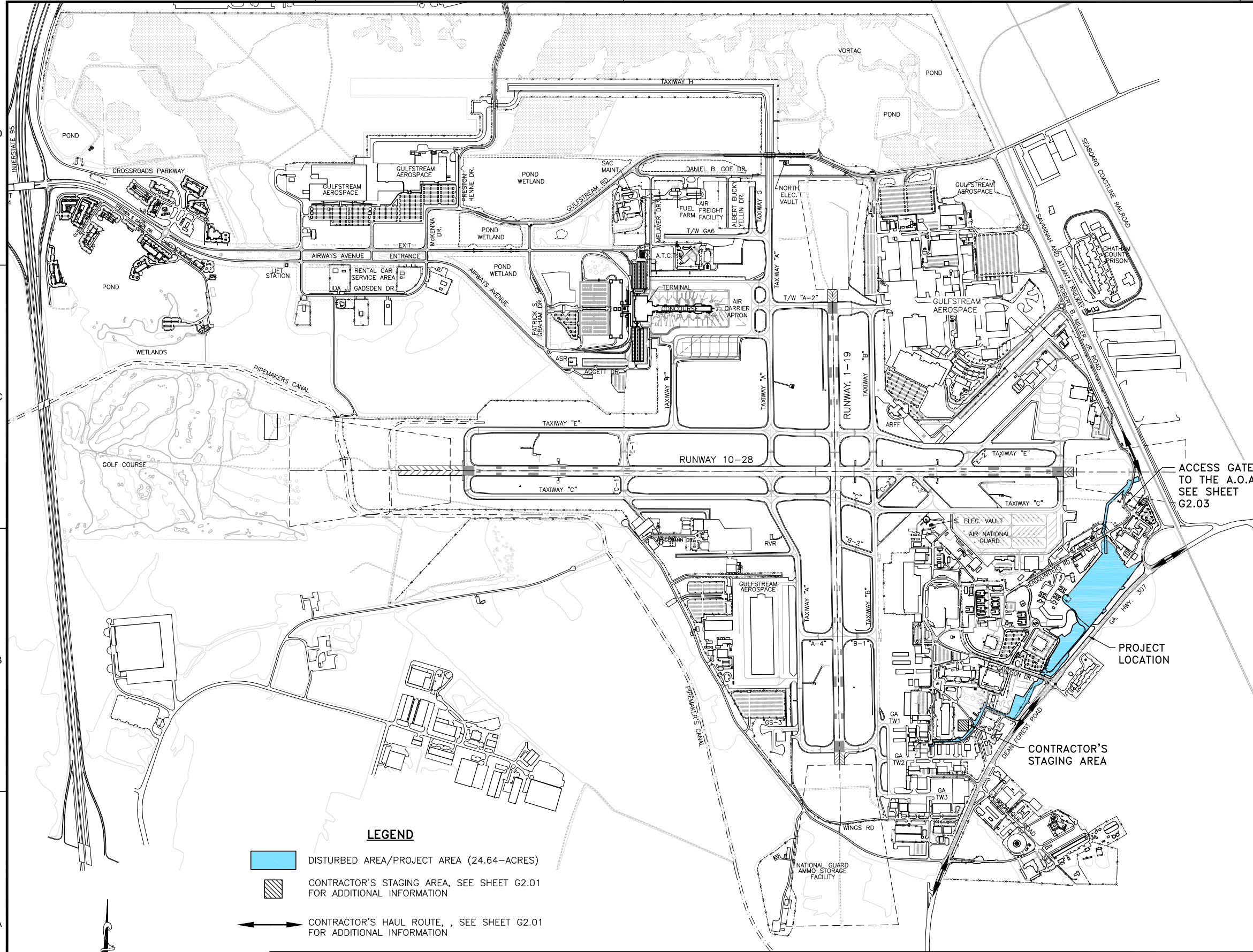
Table with 2 columns: Field, Value. Fields: PM, DWG, CHK, DSG, SCALE, PROJECT NO, DATE. Values: RWP, APD, EJF, SGH, AS NOTED, 60611019, MARCH, 2021.

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS
SHEET TITLE: GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS
SHEET NO.: G1.03
DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910 CAD\20-SHEETS\G1-03-SAV-GEN-NOTES.dwg LAYOUT NAME: G1-03 PLOTTED: Friday, February 26, 2021 8:20am USER: NormaPressley



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910 CAD\20-SHEETS\G1-04-CLP.dwg LAYOUT NAME: G1-04 PLOTTED: Friday, February 26, 2021 - 8:21am USER: Norma.Pressley

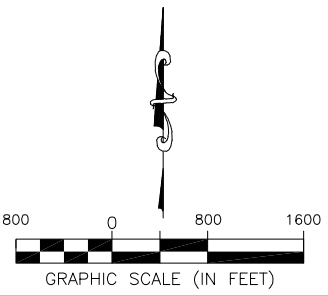


- NOTES FOR CONTRACTOR'S STAGING AREA**
1. THE CONTRACTOR SHALL MAINTAIN THE AIRPORT OPERATION AREA (A.O.A.) AND THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) IN A SECURED MODE AT ALL TIMES. A GUARD MUST BE POSTED AT THE ACCESS POINT INTO THE A.O.A. OR G.A.N.G. AREA AT ALL TIMES THAT THE GATE IS NOT LOCKED TO KEEP THE A.O.A. AND G.A.N.G. AREA SECURED.
  2. SEE PHASING PLANS FOR ACCESS TO THE A.O.A. DURING EACH PHASE.
  3. ALL MATERIAL DELIVERIES AND STORAGE OF MATERIALS WILL BE CONFINED TO THE CONTRACTOR'S STAGING AREA.
  4. UTILITIES AVAILABLE TO THE CONTRACTOR'S STAGING AREA INCLUDE WATER ONLY. THE CONTRACTOR WILL HAVE TO PROVIDE PORTABLE TOILETS SINCE SANITARY SEWER IS NOT IMMEDIATELY AVAILABLE. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYMENT OF ANY OR ALL ASSOCIATED FEES AND FOR MAKING ALL NECESSARY CONNECTIONS. ALL COSTS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.
  5. UPON THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY DEBRIS, EXCESS MATERIALS, ETC. AND SHALL GRADE, SEED AND MULCH ANY DISTURBED AREA AND SWEEP OFF ANY PAVED AREAS WITHIN THE STAGING AREA TO ITS ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE ENGINEER. ALL COSTS SHALL BE INCIDENTAL TO THE PROJECT.

- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
  4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
  5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
  6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
  7. SEE SHEET G3.01 FOR SAFETY DETAILS.
  8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
  9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
  10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
  11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
  12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
  13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
  14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
  15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
  16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
  17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
  19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
  20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
  21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.

**LEGEND**

- DISTURBED AREA/PROJECT AREA (24.64-ACRES)
- CONTRACTOR'S STAGING AREA, SEE SHEET G2.01 FOR ADDITIONAL INFORMATION
- CONTRACTOR'S HAUL ROUTE, , SEE SHEET G2.01 FOR ADDITIONAL INFORMATION



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Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

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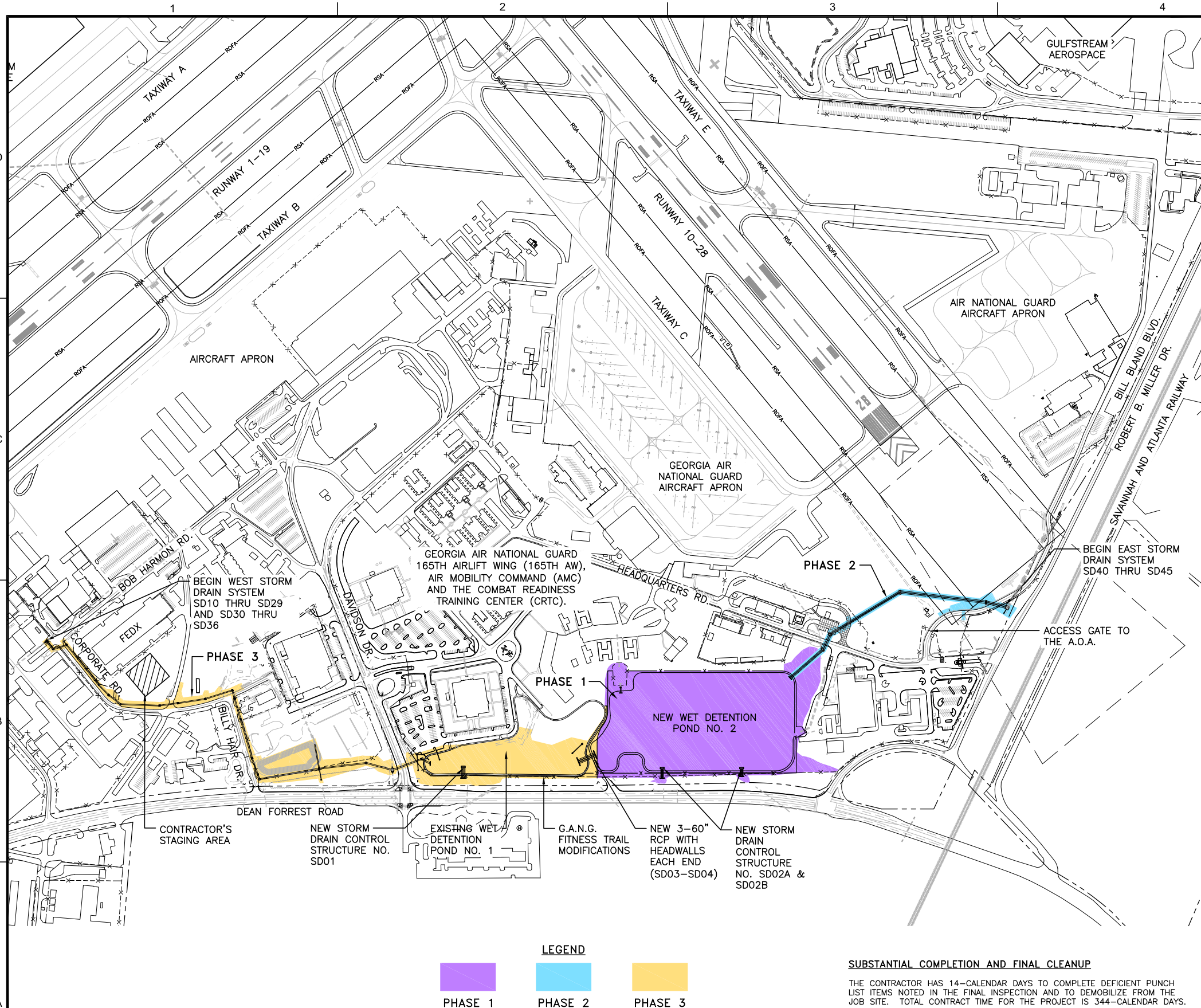
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **CONTRACT LAYOUT PLAN**

SHEET NO.: **G1.04**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\G2-01\_OV\_PHASING.dwg LAYOUT NAME: G2-01 PLOTTED: Friday, February 26, 2021 - 8:21am USER: Norma.Pressley



**CONSTRUCTION PHASING**

**MOBILIZATION – 30 CALENDAR DAYS**

MOBILIZATION SHALL CONSIST OF SITE MOBILIZATION, ESTABLISHMENT OF HAUL ROUTES, INSTALLATION OF SEDIMENT AND EROSION CONTROL SYSTEMS, SUBMITTAL OF SHOP DRAWINGS, STOCK PILING OF MATERIALS, ETC..

**PHASE 1**

PHASE 1 WORK SHALL BE COMPLETED IN 150 CALENDAR DAYS. PHASE 1 WORK SHALL CONSIST OF THE CLEARING AND GRUBBING OF THE POND AREA, POND EXCAVATION, SECURITY FENCE INSTALLATION, INSTALLATION OF OUTFALL CONTROL STRUCTURES AND SODDING.

PHASE ELEMENT	PHASE 1
AREAS CLOSED TO AIRCRAFT OPERATIONS	NONE
DURATION OF CLOSURES	NONE
TAXI ROUTES	NO IMPACTS
ARFF ACCESS ROUTES	CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE ENTIRE PROJECT
CONSTRUCTION STAGING AREAS	OUTSIDE AOA
CONSTRUCTION ACCESS AND HAUL ROUTES	SEE SHEET G1.04
IMPACTS TO NAVAIDS	N/A
LIGHTING AND MARKING CHANGES	NONE
AVAILABLE RUNWAY LENGTH	RW 10-28 (9351 FT); RW 1-19 (7,002 FT.)
DECLARED DISTANCES	N/A
REQUIRED HAZARD MARKING AND LIGHTING	NONE
LEAD TIMES FOR REQUIRED NOTIFICATIONS	COORDINATE WITH OPERATIONS

**PHASE 2**

PHASE 2 WORK SHALL BE COMPLETED WITHIN 60 CALENDAR DAYS. PHASE 2 WORK SHALL BE COMPLETED WEEKDAYS BETWEEN 7 AM AND 5 PM AND SHALL INCLUDE INSTALLATION OF THE STORM WATER CONVEYANCE SYSTEM FROM BILL BLAND BLVD. ACROSS THE RUNWAY 28 APPROACH AND THROUGH THE AIR GUARD AREA. PHASE 2 WORK MAY NOT BEGIN UNTIL PHASE 1 WORK IS COMPLETE AND ACCEPTED.

PHASE ELEMENT	PHASE 2
AREAS CLOSED TO AIRCRAFT OPERATIONS	NONE
DURATION OF CLOSURES	NONE
TAXI ROUTES	NO IMPACTS
ARFF ACCESS ROUTES	CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE ENTIRE PROJECT
CONSTRUCTION STAGING AREAS	OUTSIDE AOA
CONSTRUCTION ACCESS AND HAUL ROUTES	SEE SHEET G1.04
IMPACTS TO NAVAIDS	N/A
LIGHTING AND MARKING CHANGES	NONE
AVAILABLE RUNWAY LENGTH	RW 10-28 (9351 FT); RW 1-19 (7,002 FT.)
DECLARED DISTANCES	N/A
REQUIRED HAZARD MARKING AND LIGHTING	NONE
LEAD TIMES FOR REQUIRED NOTIFICATIONS	COORDINATE WITH OPERATIONS

**PHASE 3**

PHASE 3 WORK SHALL BE COMPLETED IN 150 CALENDAR DAYS. PHASE 3 WORK SHALL BEGIN AT THE COMPLETION OF PHASE 1 AND WILL PROCEED IN PARALLEL WITH PHASE 2. PHASE 3 WORK SHALL CONSIST OF THE INSTALLATION OF THE STORM WATER CONVEYANCE SYSTEM IN THE REMAINDER OF THE SOUTHEAST QUADRANT, INCLUDING MOT FOR ROADWAY CROSSING, UTILITY CONFLICT RESOLUTION, ETC..

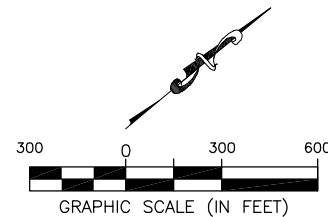
PHASE ELEMENT	PHASE 3
AREAS CLOSED TO AIRCRAFT OPERATIONS	NONE
DURATION OF CLOSURES	NONE
TAXI ROUTES	NO IMPACTS
ARFF ACCESS ROUTES	CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE ENTIRE PROJECT
CONSTRUCTION STAGING AREAS	OUTSIDE AOA
CONSTRUCTION ACCESS AND HAUL ROUTES	SEE SHEET G1.04
IMPACTS TO NAVAIDS	N/A
LIGHTING AND MARKING CHANGES	NONE
AVAILABLE RUNWAY LENGTH	RW 10-28 (9351 FT); RW 1-19 (7,002 FT.)
DECLARED DISTANCES	N/A
REQUIRED HAZARD MARKING AND LIGHTING	NONE
LEAD TIMES FOR REQUIRED NOTIFICATIONS	COORDINATE WITH OPERATIONS

**SUBSTANTIAL COMPLETION AND FINAL CLEANUP**

THE CONTRACTOR HAS 14-CALENDAR DAYS TO COMPLETE DEFICIENT PUNCH LIST ITEMS NOTED IN THE FINAL INSPECTION AND TO DEMOBILIZE FROM THE JOB SITE. TOTAL CONTRACT TIME FOR THE PROJECT IS 344-CALENDAR DAYS.

**LEGEND**

PHASE 1	PHASE 2	PHASE 3



DATE	DESCRIPTION	BY	AUTH
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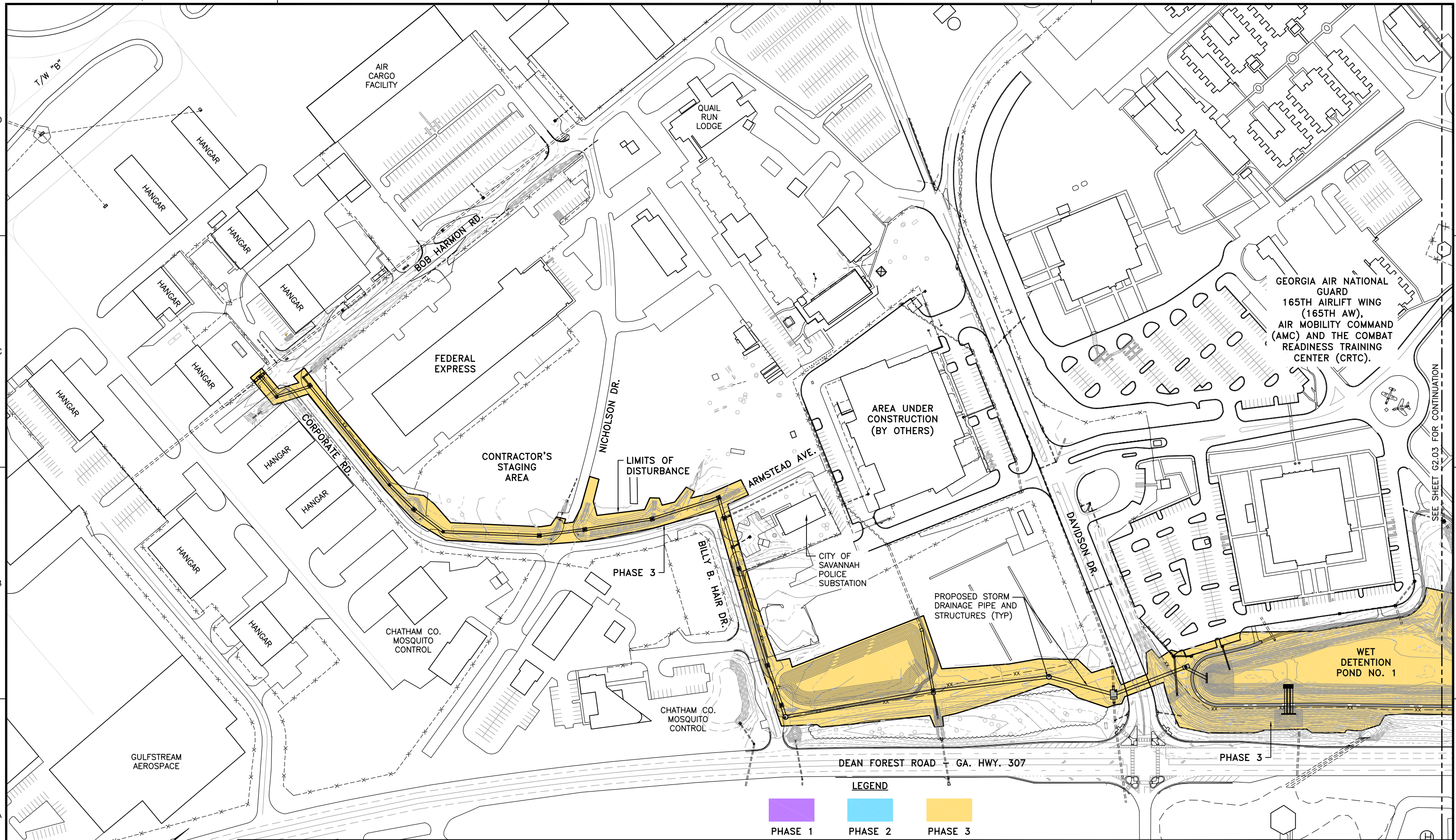


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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>OVERALL PHASING PLAN AND NOTES</b>	<b>G2.01</b>



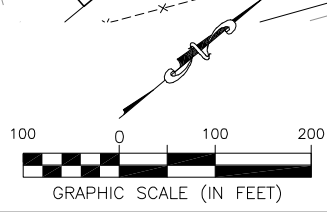
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GEORGIA AIR NATIONAL  
GUARD  
165TH AIRLIFT WING  
(165TH AW),  
AIR MOBILITY COMMAND  
(AMC) AND THE COMBAT  
READINESS TRAINING  
CENTER (CRTC).

**LEGEND**

- PHASE 1
- PHASE 2
- PHASE 3



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**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
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Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

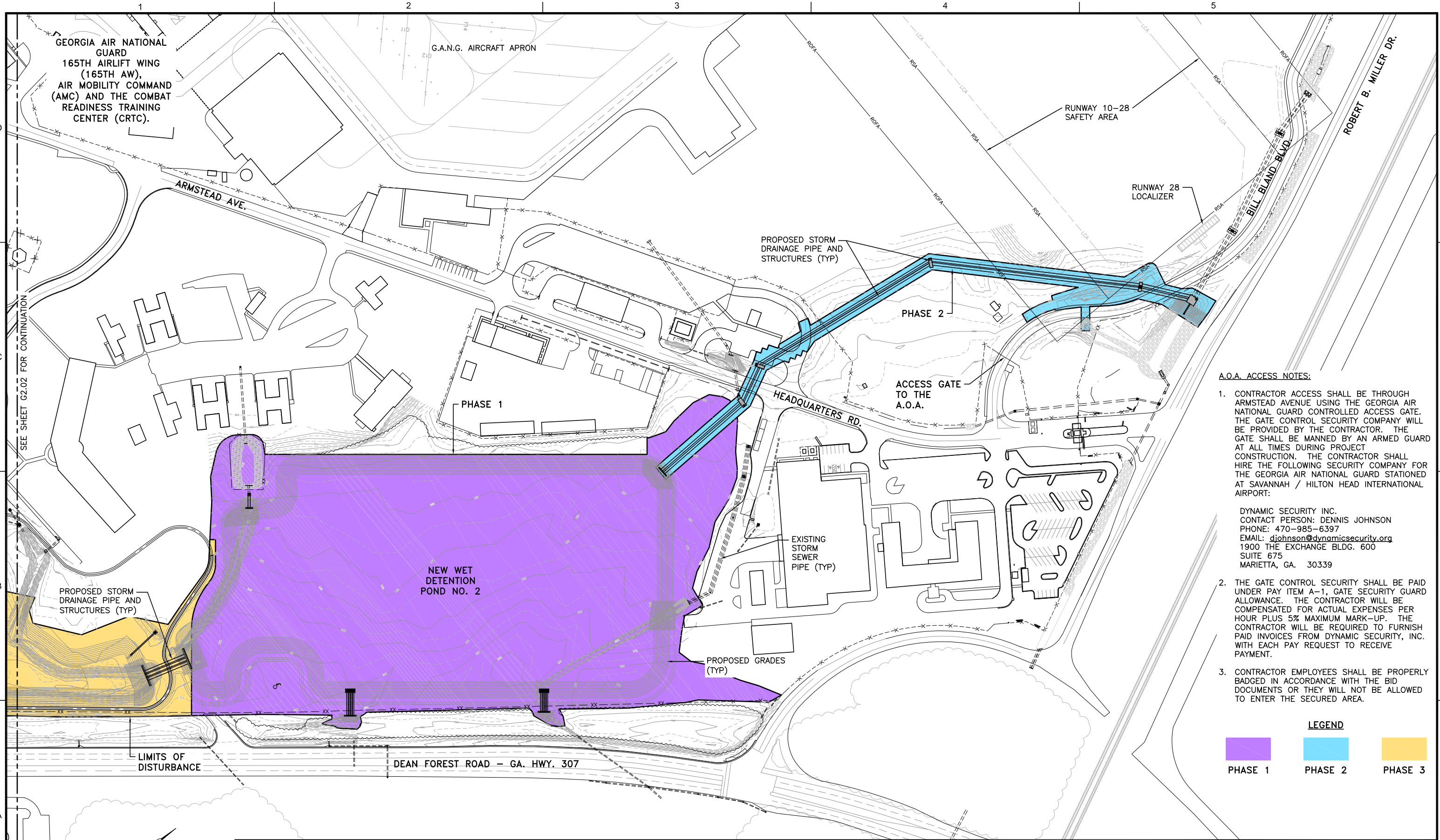
**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
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DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>		SHEET NO.
PHASING PLAN (1)		G2.02



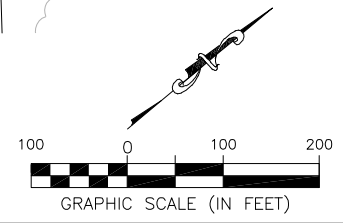
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\G2-02-G2-03 PHASING.dwg LAYOUT NAME: G2-03 PLOTTED: Friday, February 26, 2021 - 8:22am USER: Norma.Pressley



- A.O.A. ACCESS NOTES:**
- CONTRACTOR ACCESS SHALL BE THROUGH ARMSTEAD AVENUE USING THE GEORGIA AIR NATIONAL GUARD CONTROLLED ACCESS GATE. THE GATE CONTROL SECURITY COMPANY WILL BE PROVIDED BY THE CONTRACTOR. THE GATE SHALL BE MANNED BY AN ARMED GUARD AT ALL TIMES DURING PROJECT CONSTRUCTION. THE CONTRACTOR SHALL HIRE THE FOLLOWING SECURITY COMPANY FOR THE GEORGIA AIR NATIONAL GUARD STATIONED AT SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT:  
  
DYNAMIC SECURITY INC.  
CONTACT PERSON: DENNIS JOHNSON  
PHONE: 470-985-6397  
EMAIL: [djohnson@dynamicsecurity.org](mailto:djohnson@dynamicsecurity.org)  
1900 THE EXCHANGE BLDG. 600 SUITE 675  
MARIETTA, GA. 30339
  - THE GATE CONTROL SECURITY SHALL BE PAID UNDER PAY ITEM A-1, GATE SECURITY GUARD ALLOWANCE. THE CONTRACTOR WILL BE COMPENSATED FOR ACTUAL EXPENSES PER HOUR PLUS 5% MAXIMUM MARK-UP. THE CONTRACTOR WILL BE REQUIRED TO FURNISH PAID INVOICES FROM DYNAMIC SECURITY, INC. WITH EACH PAY REQUEST TO RECEIVE PAYMENT.
  - CONTRACTOR EMPLOYEES SHALL BE PROPERLY BADGED IN ACCORDANCE WITH THE BID DOCUMENTS OR THEY WILL NOT BE ALLOWED TO ENTER THE SECURED AREA.

**LEGEND**

PHASE 1
  PHASE 2
  PHASE 3



DATE	DESCRIPTION	BY	AUTH
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Savannah, Georgia 31408

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DSG. BY:	APD
SCALE:	AS NOTED
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DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: PHASING PLAN (2)

SHEET NO.: G2.03

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\900-Work\910 CAD\20-SHEETS\G3-01 SAFETY DETAILS.dwg LAYOUT NAME: G3-01 SAFETY DETAILS.dwg PLOTTED: Friday, February 26, 2021 - 8:22am USER: Norma Pressley

**MAINTENANCE OF TRAFFIC**

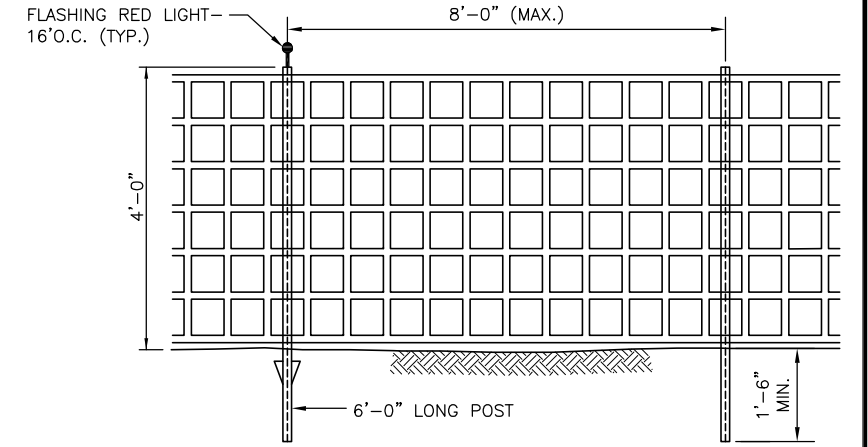
**NOTE:**

THE CONTRACTOR SHALL PROVIDE AT LEAST 10' OF TRAVEL LANE IN EACH DIRECTION FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION, ESPECIALLY DURING CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE OPEN CUT OF PAVEMENT AT ROADWAYS TO REMOVE EXISTING PIPE AND/OR INSTALL PROPOSED STORM SEWER PIPE AT THE LOCATIONS SHOWN ON THE TABLE BELOW.

Roadways With Open Cuts Requiring MOT	
Roadway Name	Plan Sheets
Bob Harmon Rd.	C2.11, C3.01 & C4.11
Corporate Rd.	C2.11, C3.01 & C4.11
Armstead Ave. near Nicholson Dr.	C2.12, C3.02 & C4.12
Armstead Ave. near Billy B. Hair Dr.	C2.12, C3.02 & C4.12
Davidson Dr.	C2.14, C3.04 & C4.14
Headquarters Rd.	C2.19, C2.20, C3.05, C4.19 & C4.20
Bi I Bland Blvd.	C2.21, C3.07 & C4.21

**NOTES:**

- SEE SHEET C5.81 FOR CONSTRUCTION EXIT DETAIL, SECTIONS AND NOTES.

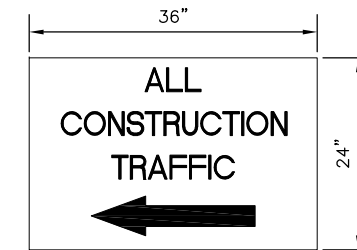


**NOTE:**

CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCE AROUND THE STAGING AREA. FENCE SHALL BE TENSAR POLYGRID SF OR APPROVED EQUAL. LINE POST SPACING SHALL BE A MAXIMUM OF 8'-0". FENCE SHALL BE FASTENED TO POLES WITH 5 PLASTIC TIES.

**VISUAL CONSTRUCTION BARRIER DETAIL**

N.T.S.

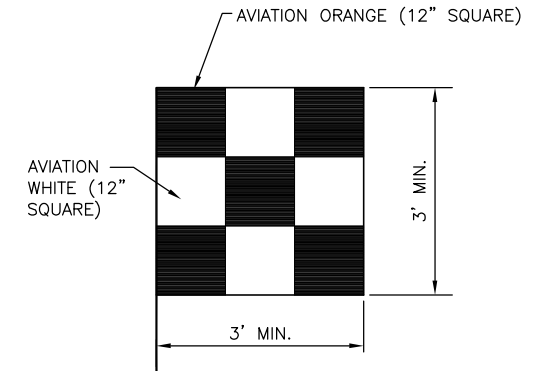


**CONSTRUCTION TRAFFIC SIGN**

N.T.S.

**CONSTRUCTION TRAFFIC SIGN NOTES:**

- SIGN BACKGROUND IS TO BE WHITE. SIGN LETTERING IS TO BE BLACK, MINIMUM HEIGHT OF 3", AND BE A BOLD LETTERING STYLE SIMILAR TO DETAIL SHOWN ON THIS SHEET.
- SIGN IS TO BE LOCATED HIGH ENOUGH TO ALLOW EASY VIEWING FROM ALL CONSTRUCTION VEHICLES ENTERING THE CONSTRUCTION SITE.
- SIGN PLACEMENT SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL CONSTRUCTION TRAFFIC SIGNAGE SHALL BE INCLUDED AND CONSIDERED INCIDENTAL TO THE PROJECT.



**CONSTRUCTION SAFETY FLAG**

N.T.S.

**CONSTRUCTION SAFETY FLAG NOTES:**

- SAFETY FLAG SHALL BE PROMINENTLY DISPLAYED ON ALL CONSTRUCTION EQUIPMENT.

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE

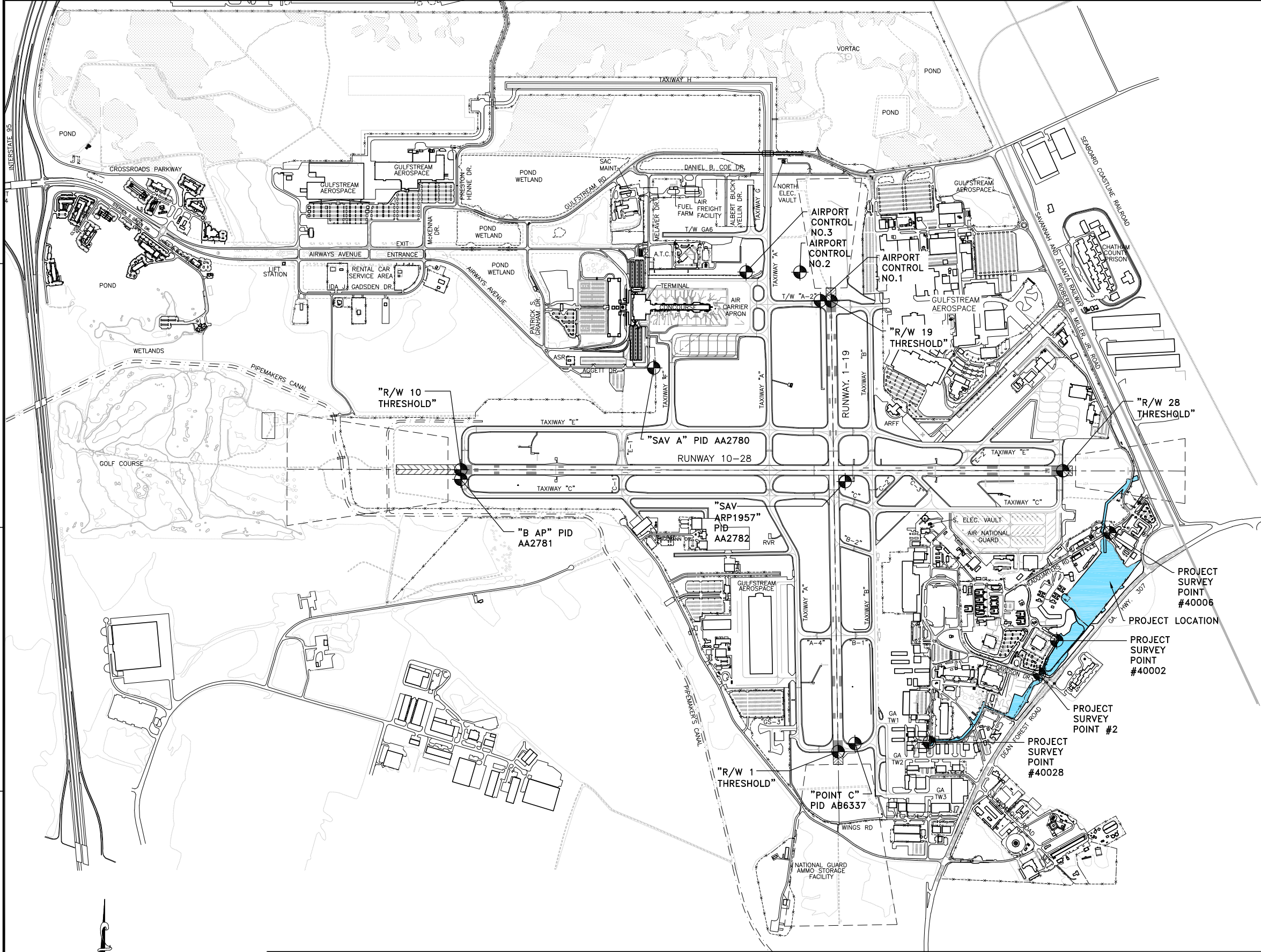
**SAFETY DETAILS**

SHEET NO.


**G3.01**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_sEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\G4-01 H-V-CTRL PLAN.dwg LAYOUT NAME: G4-01 PLOTTED: Friday, February 26, 2021 - 8:22am USER: Norma.Pressley



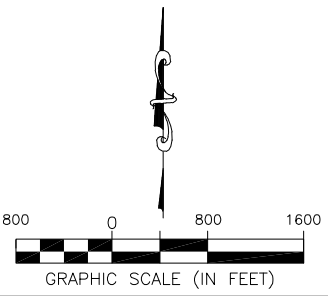
**LEGEND**

 SURVEY CONTROL POINT, SEE SHEET C4.02 FOR HORIZONTAL & VERTICAL CONTROL DATA TABLES AND NOTES. SEE SHEET C4.02 FOR PROJECT SURVEY CONTROL PLAN.

**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.

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PROJECT NO.	60611019
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**  
 SHEET TITLE  
**HORIZONTAL & VERTICAL CONTROL PLAN**  
 SHEET NO.  
**G4.01**

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\04-02 H-V-CTRL.dwg LAYOUT NAME: 04-02 PLOTTED: Friday, February 26, 2021 - 8:22am USER: Norma.Pressley

**SURVEY CONTROL DATA**

POINT DESIGNATION	NGS GEODETIC COORDINATES		STATE PLANE GRID COORDINATES		LOCAL AIRPORT GRID COORDINATES		ELEVATION (NAVD88)	ELEVATION (NGVD29)	SCALE FACTOR	COMBINED SCALE AND ELEVATION FACTOR	CONVERGENCE DDMM(DEG.SEC)	PAC / SAC	SURVEY CLASS		DESCRIPTION	
	LATITUDE	LONGITUDE	NORTHING	EASTING	NORTHING	EASTING							HORIZONTAL	VERTICAL		
RUNWAY THRESHOLD DATA																
10	32-07-43.5133	081-13-07.6513	775543.47560	949588.33927	49999.9028	20011.6098	16.9	(17.82)	0.99999861	0.999997801	00-30-14.88317	-	-	-	RUNWAY THRESHOLD - END OF FULL STRENGTH PAVEMENT	
28	32-07-42.5082	081-11-18.9212	775525.43716	958939.15689	50000.0597	29362.4448	46.3	(47.22)	1.000004995	1.00000278	00-31-12.71076	-	-	-	RUNWAY THRESHOLD - END OF FULL STRENGTH PAVEMENT	
19	32-08-08.9374	081-12-00.4981	778163.99820	955339.90468	52631.5814	25758.0793	41.8	(42.72)	1.000002513	1.000000514	00-30-50.97227	-	-	-	RUNWAY THRESHOLD - END OF FULL STRENGTH PAVEMENT	
1	32-06-59.6540	081-11-59.9692	771163.03621	955448.20535	45630.8428	25879.9651	29.3	(30.22)	1.000002588	1.000001186	00-30-50.26371	-	-	-	RUNWAY THRESHOLD - END OF FULL STRENGTH PAVEMENT	
FAA/NGS PACS & SACS																
POINT "C" PID# AB6337	32-07-00.89146	081-11-56.92292	771290.44000	955709.07000	45758.75000	26140.57460	28	(28.92)	1.00000277	1.00000632	00-30-51.9	-	THIRD	FOURTH CLASS 1	PUNCH HOLE IN NW CORNER OF SQUARE CONCRETE BASE FOR AN ELECTRICAL SYSTEM	
"SAV A" PID# AA2780	32-07-58.89314	081-12-32.63949	777124.30000	952585.25000	48413.41000	23008.55460	19.9	(20.82)	1.00000663	1.00000455	00-30-33.7	PAC	B	FIRST CLASS 1	NGS/NOAA IRON ROD WITH METAL SLEEVE & COVER	
SAV "ARP1957" PID# AA2782	32-07-41.15362	081-11-58.25592	775358.06000	955557.91000	49826.07000	25981.59460	45.3	46.18	1.00000266	1.00000537	00-30-51.8	SAC	FIRST	FIFTH CLASS 1	STANDARD DISC STAMPED "ARP 1957" SET IN 6" STOVEPIPE IN CONCRETE	
SAV STA "B AP" PID# AA2781	32-07-42.02900	081-13-07.66596	775393.47000	949588.40000	49849.99000	20012.04600	14.5	(15.42)	0.99999861	1.00000279	00-30-14.9	SAC	FIRST	FIFTH CLASS 1	STANDARD NGS/NOAA DISK SET IN DRILL HOLE IN CONCRETE AT THE SOUTH END OF THRESHOLD BAR OF RUNWAY 10	

NOTE:  
"(")" INDICATES CALCULATED  
NGVD29 ELEVATION

**ADDITIONAL PROJECT SURVEY CONTROL DATA**

POINT DESIGNATION	STATE PLANE GRID COORDINATES		ELEVATION (NAVD88)	DESCRIPTION
	NORTHING	EASTING		
AIRPORT CONTROL NO. 1	778168.6868	955173.9874	39.70	MAG NAIL AND DISK
AIRPORT CONTROL NO. 2	778612.1163	954855.9558	30.43	IRON ROD NO CAP
AIRPORT CONTROL NO. 3	778613.3816	954019.6306	15.78	X-MARK IN HEADWALL

1. SEE SHEET G1.04, CONTRACT LAYOUT PLAN, FOR LOCATION OF OVERALL SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT HORIZONTAL & VERTICAL CONTROL POINTS.

**SURVEY CONTROL NOTES:**

- PROJECT LOCATED IN SAVANNAH, GEORGIA - GEORGIA EAST (1001) ZONE.
- HORIZONTAL DATUM: BEARINGS AND COORDINATES AS SHOWN ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
- APPROXIMATE CONVERSION OF VERTICAL DATUMS:  
TO CONVERT ELEVATIONS GIVEN IN NAVD 88 VALUES TO NGVD 29 VALUES: ADD 0.92' TO NAVD 88 VALUES.  
TO CONVERT ELEVATIONS GIVEN IN NGVD 29 VALUES TO NAVD 88 VALUES: SUBTRACT 0.92' FROM NGVD 29 VALUES.
- RUNWAY THRESHOLD DATA BASED ON NGS/NOAA OBSTACLE DATA SURVEYS FOR THE FAA ON FEB. 07, 2006, AVAILABLE IN UDDF FORMAT @ [http://www.ngs.noaa.gov/AERO/uddf/SOUTHERN/GEORGIA/SAV\\_\\_06D.F77](http://www.ngs.noaa.gov/AERO/uddf/SOUTHERN/GEORGIA/SAV__06D.F77)
- PACS & SACS DATA BASED ON NGS DATA SHEETS, DATED FEB. 21, 2007, FOR DESCRIBED MONUMENTS, WHICH ARE AVAILABLE @ [HTTP://www.ngs.noaa.gov](http://www.ngs.noaa.gov)  
PACS = PRIMARY AIRPORT CONTROL STATION  
SACS = SECONDARY AIRPORT CONTROL STATION

**PROJECT SURVEY CONTROL DATA**

POINT DESIGNATION	STATE PLANE GRID COORDINATES (NAD83)		ELEVATION (NAVD88)	DESCRIPTION
	NORTHING	EASTING		
PROJECT CONTROL #40028	771307.30	956865.47	27.61'	MAG NAIL IN ASPHALT (INTERSECTION OF BOB HARMON RD. & CORPORATE RD.)
PROJECT CONTROL #2	772370.53	958576.79	17.13'	1" IRON PIPE WITHIN DAVIDSON DR.
PROJECT CONTROL #40006	774563.09	959665.72	23.13'	MAG NAIL IN ASPHALT
PROJECT CONTROL #40002	772887.11	958844.41	18.81	MAG NAIL IN ASPHALT

1. INFORMATION PROVIDED BY COLEMAN COMPANY, INC. SEE SHEET G4.01 FOR LOCATION OF THESE PROJECT SURVEY CONTROL POINTS.

**PROJECT EXISTING SURVEY NOTE:**

- TOPOGRAPHICAL SURVEY PERFORMED FOR THIS PROJECT BY COLEMAN COMPANY, INC. IN AUG./SEPT./OCT. 2019. THE SURVEY WILL BE PROVIDED TO THE SELECTED CONTRACTOR.
- SEE SHEET G4.01 FOR SURVEY CONTROL POINTS SET BY COLEMAN COMPANY, INC. WITHIN THE PROJECT AREA.

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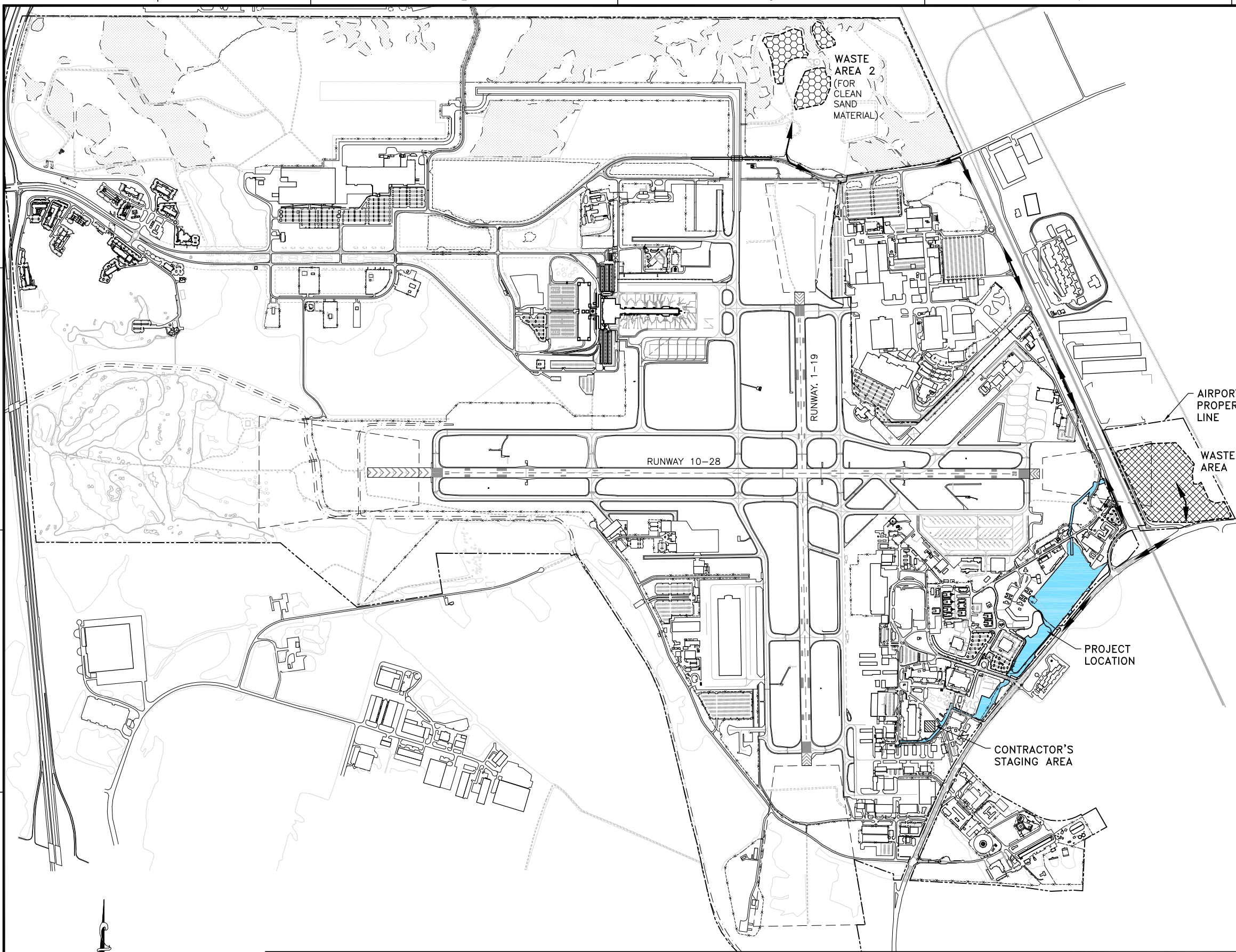
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	HORIZON & VERTICAL CONTROL DATA TABLES	SHEET NO.	G4.02
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FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_sEQquadDmg\900-Work\910 CAD\20-SHEETS\G5-01 WASTE DIRT.dwg LAYOUT NAME: G5-01 PLOTTED: Friday, February 26, 2021 - 8:22am USER: Norma.Pressley







**GENERAL NOTES**

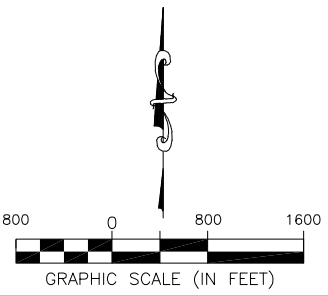
1. THE CONTRACTOR SHALL MAINTAIN THE AIRPORT OPERATION AREA (A.O.A.) AND THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) IN A SECURED MODE AT ALL TIMES. A GUARD MUST BE POSTED AT THE ACCESS POINT INTO THE A.O.A. OR G.A.N.G. AREA AT ALL TIMES THAT THE GATE IS NOT LOCKED TO KEEP THE A.O.A. AND G.A.N.G. AREA SECURED.
2. SEE PHASING PLANS FOR ACCESS TO THE A.O.A. DURING EACH PHASE.

**WASTE AREA NOTES:**

1. THE CONTRACTOR SHALL SEPARATE POND UNCLASSIFIED EXCAVATION MATERIAL INTO CLEAN SAND AND OTHER. ALL CLEAN SAND SHALL BE STOCKPILED IN WASTE AREA NO. 2 FOR FUTURE USE BY THE AIRPORT. ALL OTHER MATERIAL SHALL BE WASTED AT WASTE AREA NO. 1.
2. PRIOR TO PLACING ANY WASTE MATERIAL, THE CONTRACTOR SHALL VERIFY THE LOCATION AND LIMITS OF THE FILL AREA AND PLACE APPROPRIATE SILT FENCE. THE SILT FENCING IS ESTIMATED AT 6000 L.F. FOR THE WASTE AREAS NO. 1 AND 2.
3. AT PROJECT CONCLUSION, FINAL GRADE AND HYDROSEED THE WASTE AREA. THE HYDROSEEDING SHALL INCLUDE A BIRD REPELLANT IN THE APPROACHES TO RUNWAY 19 AND RUNWAY 28.
4. SEE SHEET X1.00 FOR UNCLASSIFIED EXCAVATION CUT AND FILL TOTALS.

**LEGEND**

-  PROJECT LOCATION
-  WASTE AREA 1 - MIXED MATERIAL
-  WASTE AREA 2 - CLEAN SAND MATERIAL
-  CONTRACTOR'S HAUL ROUTE TO WASTE MATERIAL



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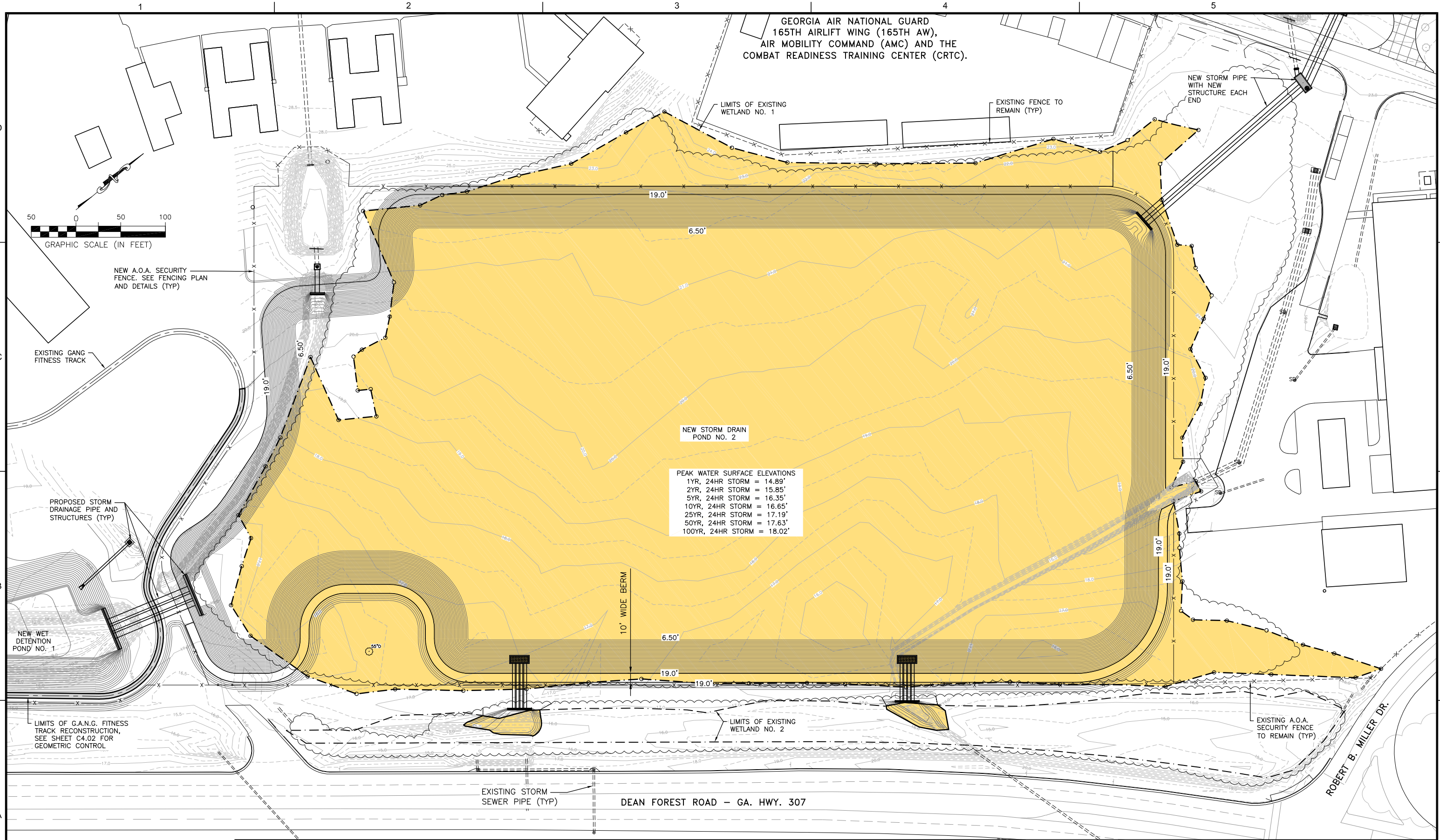
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **WASTE MATERIAL LOCATION PLAN**

SHEET NO.: **G5.01**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C1-01-WETLAND-DEMO.dwg LAYOUT NAME: C1-01 PLOTTED: Friday, February 26, 2021 - 8:23am USER: Norma.Pressley



PEAK WATER SURFACE ELEVATIONS

1YR, 24HR STORM	= 14.89'
2YR, 24HR STORM	= 15.85'
5YR, 24HR STORM	= 16.35'
10YR, 24HR STORM	= 16.65'
25YR, 24HR STORM	= 17.19'
50YR, 24HR STORM	= 17.63'
100YR, 24HR STORM	= 18.02'

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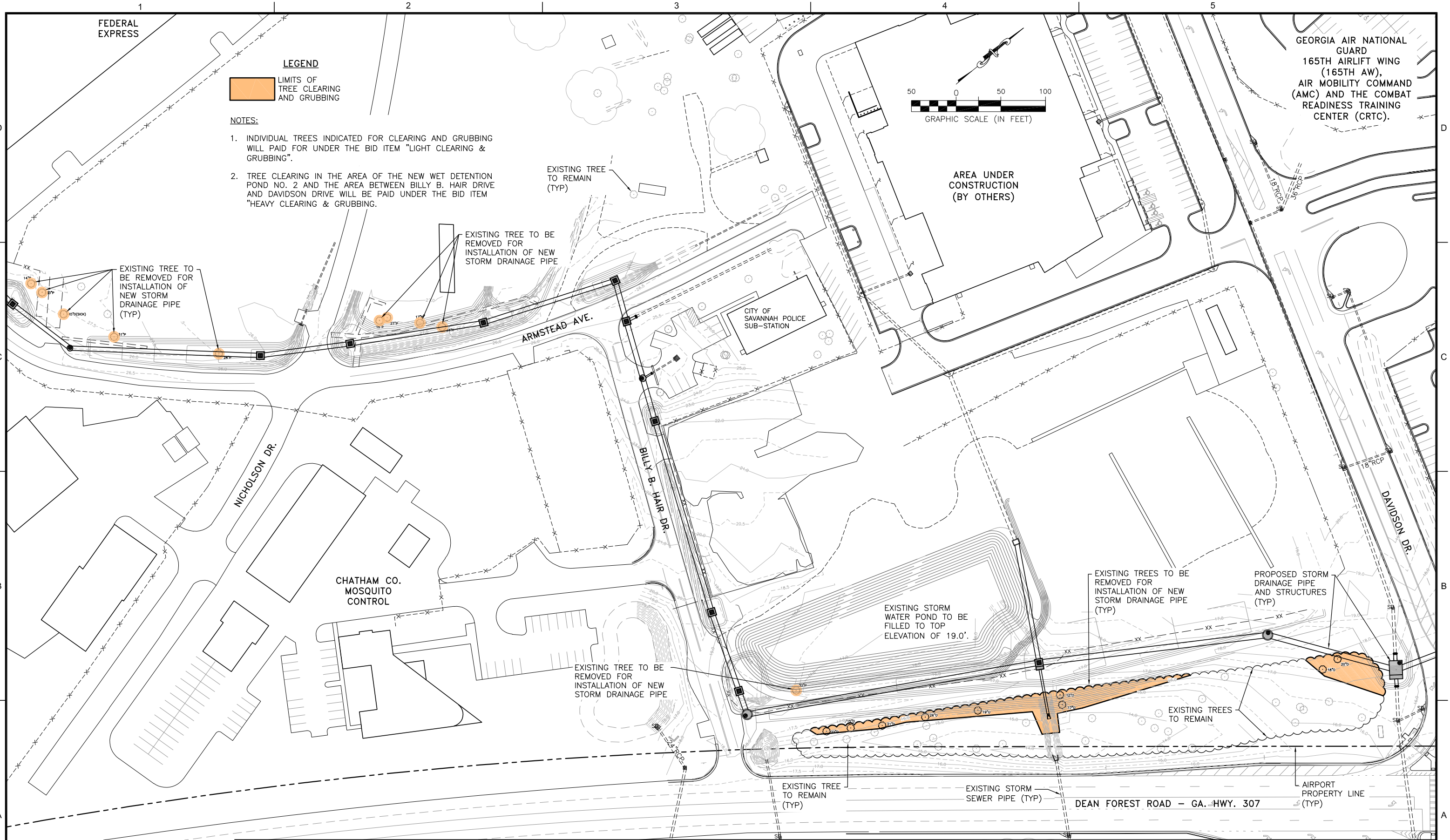
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE  
**NEW STORM DRAIN POND NO. 2 WETLAND IDENTIFICATION PLAN**

SHEET NO.  
**C1.01**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C1-02-03 TREE-DEMOL.dwg LAYOUT NAME: C1-02 PLOTTED: Friday, February 26, 2021 - 8:23am USER: Norma.Pressley



**LEGEND**  
 [Orange Box] LIMITS OF TREE CLEARING AND GRUBBING

- NOTES:**
- INDIVIDUAL TREES INDICATED FOR CLEARING AND GRUBBING WILL PAID FOR UNDER THE BID ITEM "LIGHT CLEARING & GRUBBING".
  - TREE CLEARING IN THE AREA OF THE NEW WET DETENTION POND NO. 2 AND THE AREA BETWEEN BILLY B. HAIR DRIVE AND DAVIDSON DRIVE WILL BE PAID UNDER THE BID ITEM "HEAVY CLEARING & GRUBBING".

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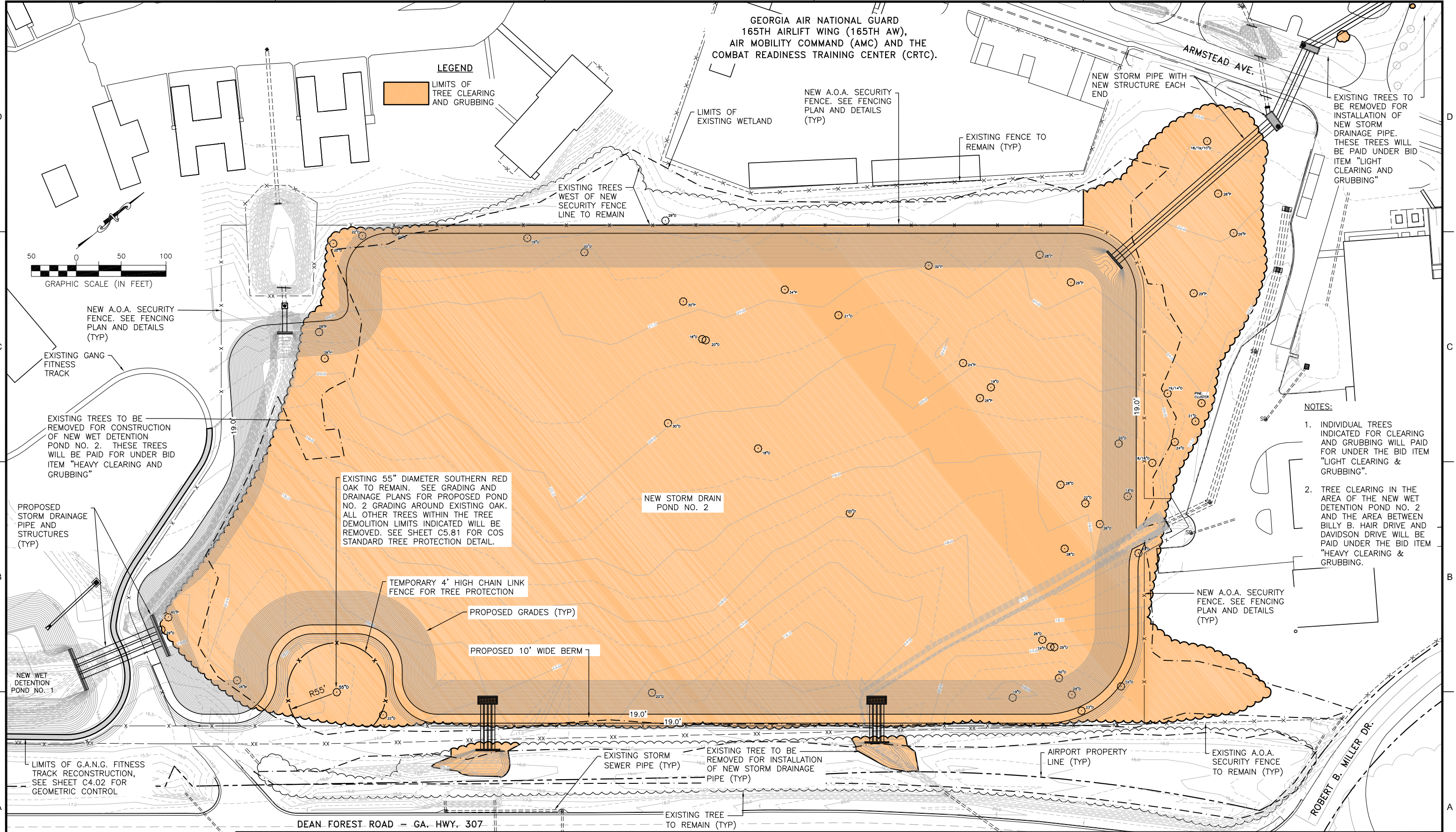


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<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>		SHEET NO.
SHEET TITLE		C1.02
<b>TREE CLEARING - DEMOLITION PLAN (1)</b>		DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910 CAD\20-SHEETS\C1-02-03 TREE-DEMOL.dwg LAYOUT NAME: C1-03 PLOTTED: Friday, February 26, 2021 - 8:23am USER: Norma.Pressley



- NOTES:**
- INDIVIDUAL TREES INDICATED FOR CLEARING AND GRUBBING WILL PAID FOR UNDER THE BID ITEM "LIGHT CLEARING & GRUBBING".
  - TREE CLEARING IN THE AREA OF THE NEW WET DETENTION POND NO. 2 AND THE AREA BETWEEN BILLY B. HAIR DRIVE AND DAVIDSON DRIVE WILL BE PAID UNDER THE BID ITEM "HEAVY CLEARING & GRUBBING".

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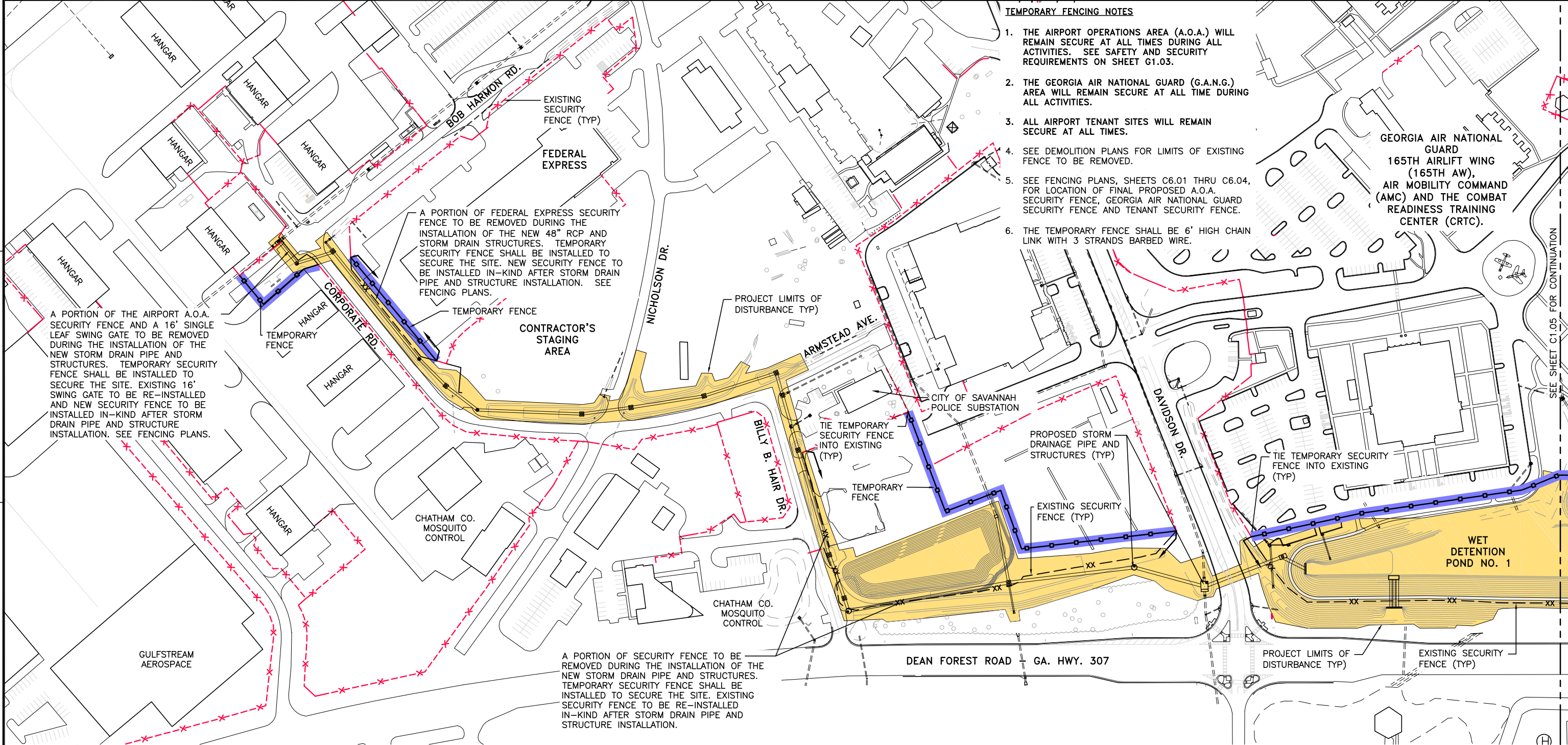
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **TREE CLEARING - DEMOLITION PLAN (2)**

SHEET NO.: **C1.03**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910\_CAD\20-SHEETS\C1-04-05\_TEMP\_FENCE.dwg LAYOUT NAME: C1-04 PLOTTED: Friday, February 26, 2021 - 8:24am USER: Norma.Pressley



- TEMPORARY FENCING NOTES**
1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
  2. THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) AREA WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
  3. ALL AIRPORT TENANT SITES WILL REMAIN SECURE AT ALL TIMES.
  4. SEE DEMOLITION PLANS FOR LIMITS OF EXISTING FENCE TO BE REMOVED.
  5. SEE FENCING PLANS, SHEETS C6.01 THRU C6.04, FOR LOCATION OF FINAL PROPOSED A.O.A. SECURITY FENCE, GEORGIA AIR NATIONAL GUARD SECURITY FENCE AND TENANT SECURITY FENCE.
  6. THE TEMPORARY FENCE SHALL BE 6' HIGH CHAIN LINK WITH 3 STRANDS BARBED WIRE.

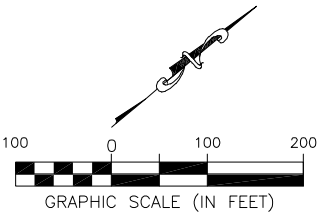
A PORTION OF THE AIRPORT A.O.A. SECURITY FENCE AND A 16' SINGLE LEAF SWING GATE TO BE REMOVED DURING THE INSTALLATION OF THE NEW STORM DRAIN PIPE AND STRUCTURES. TEMPORARY SECURITY FENCE SHALL BE INSTALLED TO SECURE THE SITE. EXISTING 16' SWING GATE TO BE RE-INSTALLED AND NEW SECURITY FENCE TO BE INSTALLED IN-KIND AFTER STORM DRAIN PIPE AND STRUCTURE INSTALLATION. SEE FENCING PLANS.

A PORTION OF FEDERAL EXPRESS SECURITY FENCE TO BE REMOVED DURING THE INSTALLATION OF THE NEW 48" RCP AND STORM DRAIN STRUCTURES. TEMPORARY SECURITY FENCE SHALL BE INSTALLED TO SECURE THE SITE. NEW SECURITY FENCE TO BE INSTALLED IN-KIND AFTER STORM DRAIN PIPE AND STRUCTURE INSTALLATION. SEE FENCING PLANS.

A PORTION OF SECURITY FENCE TO BE REMOVED DURING THE INSTALLATION OF THE NEW STORM DRAIN PIPE AND STRUCTURES. TEMPORARY SECURITY FENCE SHALL BE INSTALLED TO SECURE THE SITE. EXISTING SECURITY FENCE TO BE RE-INSTALLED IN-KIND AFTER STORM DRAIN PIPE AND STRUCTURE INSTALLATION.

**LEGEND**

- PROJECT LIMITS OF DISTURBANCE
- EXISTING FENCE
- EXISTING FENCE TO BE REMOVED TO FACILITATE CONSTRUCTION
- TEMPORARY SECURITY FENCE



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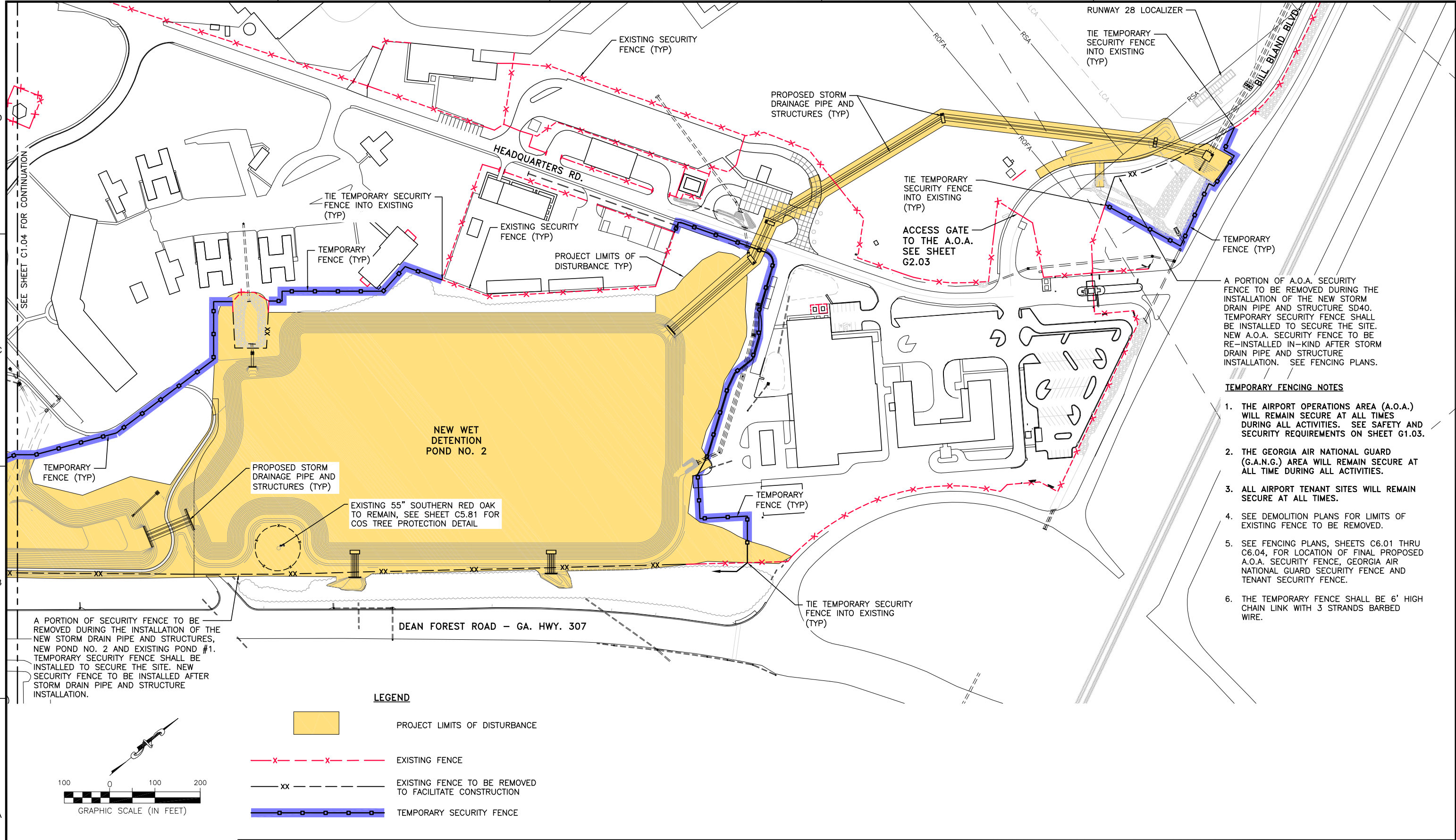
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **TEMPORARY FENCING PLAN (1)**

SHEET NO.: **C1.04**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C1-04-05 TEMP FENCE.dwg LAYOUT NAME: C1-05 PLOTTED: Friday, February 26, 2021 - 8:24am USER: Norma.Pressley



A PORTION OF A.O.A. SECURITY FENCE TO BE REMOVED DURING THE INSTALLATION OF THE NEW STORM DRAIN PIPE AND STRUCTURE SD40. TEMPORARY SECURITY FENCE SHALL BE INSTALLED TO SECURE THE SITE. NEW A.O.A. SECURITY FENCE TO BE RE-INSTALLED IN-KIND AFTER STORM DRAIN PIPE AND STRUCTURE INSTALLATION. SEE FENCING PLANS.

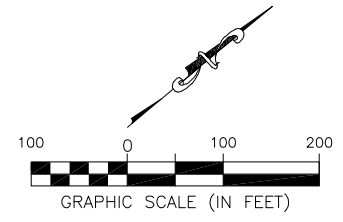
**TEMPORARY FENCING NOTES**

1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
2. THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) AREA WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
3. ALL AIRPORT TENANT SITES WILL REMAIN SECURE AT ALL TIMES.
4. SEE DEMOLITION PLANS FOR LIMITS OF EXISTING FENCE TO BE REMOVED.
5. SEE FENCING PLANS, SHEETS C6.01 THRU C6.04, FOR LOCATION OF FINAL PROPOSED A.O.A. SECURITY FENCE, GEORGIA AIR NATIONAL GUARD SECURITY FENCE AND TENANT SECURITY FENCE.
6. THE TEMPORARY FENCE SHALL BE 6' HIGH CHAIN LINK WITH 3 STRANDS BARBED WIRE.

A PORTION OF SECURITY FENCE TO BE REMOVED DURING THE INSTALLATION OF THE NEW STORM DRAIN PIPE AND STRUCTURES, NEW POND NO. 2 AND EXISTING POND #1. TEMPORARY SECURITY FENCE SHALL BE INSTALLED TO SECURE THE SITE. NEW SECURITY FENCE TO BE INSTALLED AFTER STORM DRAIN PIPE AND STRUCTURE INSTALLATION.

**LEGEND**

- PROJECT LIMITS OF DISTURBANCE
- EXISTING FENCE
- EXISTING FENCE TO BE REMOVED TO FACILITATE CONSTRUCTION
- TEMPORARY SECURITY FENCE



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

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**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
 1480 Chatham Parkway, Suite 100  
 Savannah, Georgia | (912) 200-3041

**AECOM**  
 AECOM Technical Services, Inc.  
 7650 W. Courtney Campbell Causeway  
 Tampa, FL 33607-1462  
 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

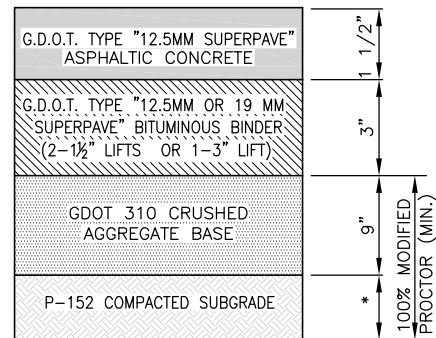
SHEET TITLE: **TEMPORARY FENCING PLAN (2)**

SHEET NO.: **C1.05**



**ROADWAY BITUMINOUS ROADWAY PAVEMENT SECTION**

- ① 1½" SURFACE COURSE "12.5MM SUPERPAVE"
- ② TACK COAT
- ③ 3" BITUMINOUS BINDER; 2-1½" "12.5 MM SUPERPAVE OR 1-3" "19MM SUPERPAVE"
- ④ PRIME COAT
- ⑤ 9" G.D.O.T. 310 CRUSHED AGGREGATE BASE
- ⑥ P-152 COMPACTED SUBGRADE



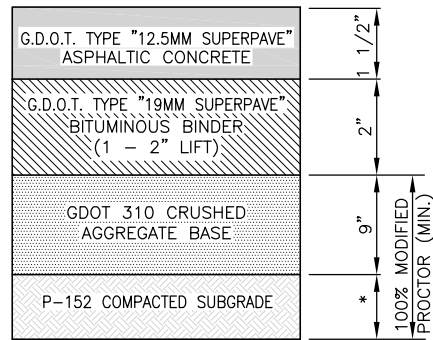
**COMPACTION SCHEDULE FOR ROADWAY PAVEMENT**

N.T.S.

\* ALL FILL MATERIAL SHALL BE COMPACTED TO 100% MODIFIED PROCTOR. THE UPPER 12" OF EXISTING SUBGRADE SHALL BE COMPACTED TO 100% MODIFIED PROCTOR PRIOR TO PLACEMENT OF AGGREGATE BASE.

**G.A.N.G. ROADWAYS BITUMINOUS ROADWAY PAVEMENT SECTION**

- ① 1½" SURFACE COURSE "12.5MM SUPERPAVE"
- ② TACK COAT
- ③ 2" BITUMINOUS BINDER; 1 - 2" LIFT "19MM SUPERPAVE"
- ④ PRIME COAT
- ⑤ 9" G.D.O.T. 310 CRUSHED AGGREGATE BASE
- ⑥ P-152 COMPACTED SUBGRADE

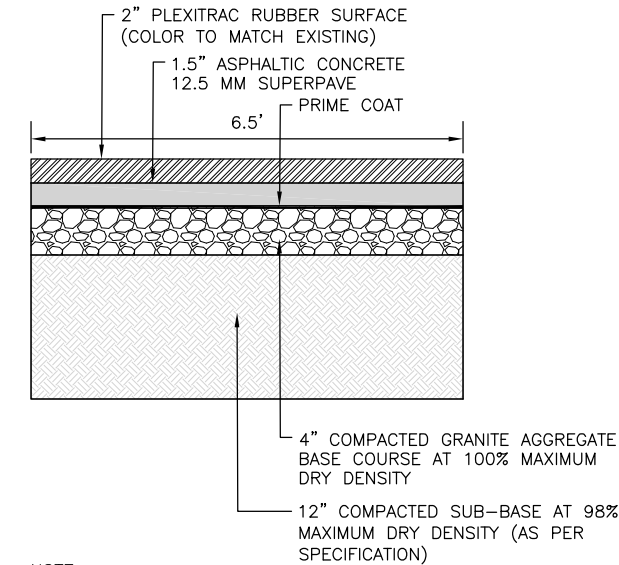


**COMPACTION SCHEDULE FOR ROADWAY PAVEMENT**

N.T.S.

**GENERAL NOTES**

1. ALL DISTURBED AND GRADED AREAS TO BE SODDED.
2. THE STRIPPING OF THE SOIL FOR PAVEMENT CONSTRUCTION IS INCIDENTAL TO BID ITEM UNCLASSIFIED EXCAVATION.
3. SEE SHEET C4.02 FOR THE LIMITS OF THE G.A.N.G. FITNESS TRACK RE-ALIGNMENT AND RECONSTRUCTION. THE FITNESS TRACK MUST BE BUILT AT THE ALIGNMENT BEARINGS AND DISTANCES INDICATED FOR A FINAL TRACK DISTANCE MEASURE OF 1/2 MILE.
4. THE G.A.N.G. FITNESS TRACK SHALL MATCH EXISTING PAVEMENT SECTION AND MATERIALS.
5. SEE SHEET C2.20 AND C4.20 FOR THE LIMITS OF THE G.A.N.G. FUEL FACILITY ROADWAY CONCRETE REMOVAL AND REPLACEMENT FOR THE INSTALLATION OF THE NEW STORM DRAIN SYSTEM.
6. SEE SHEETS C2.11 THRU C2.21 FOR EXISTING CONDITIONS AND DEMOLITION PLANS AND SHEETS C4.11 THRU C4.21 FOR GRADING AND DRAINAGE PLANS FOR ASPHALT OPEN CUT AND REPLACEMENT AREAS 1 THRU 8.



NOTE: AFTER ASPHALTIC CONCRETE HAS COOLED AND HARDENED, APPLY 2" PLEXITRAC RUBBER SURFACE (COLOR TO MATCH EXISTING). THE LIMITS OF TRACK MODIFICATION WILL BE RAISED TO ELEVATION 19'.

**G.A.N.G. FITNESS TRACK PAVEMENT SECTION**

N.T.S.

**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

**AREA 1** - LOCATED AT BOB HARMON RD. AND A.O.A. SECURITY FENCE BETWEEN NEW STRUCTURES SD10 AND SD11. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 2** - LOCATED AT BOB HARMON RD. & CORPORATE RD. BETWEEN NEW STRUCTURES SD11 AND SD12. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 3** - LOCATED AT NICHOLSON DR. AND CORPORATE RD. BETWEEN NEW STRUCTURES SD16 AND SD17. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 4** - LOCATED AT ARMSTEAD AVE. AT INTERSECTION OF BILLY B. HAIR BETWEEN NEW STRUCTURES SD19 AND SD20. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

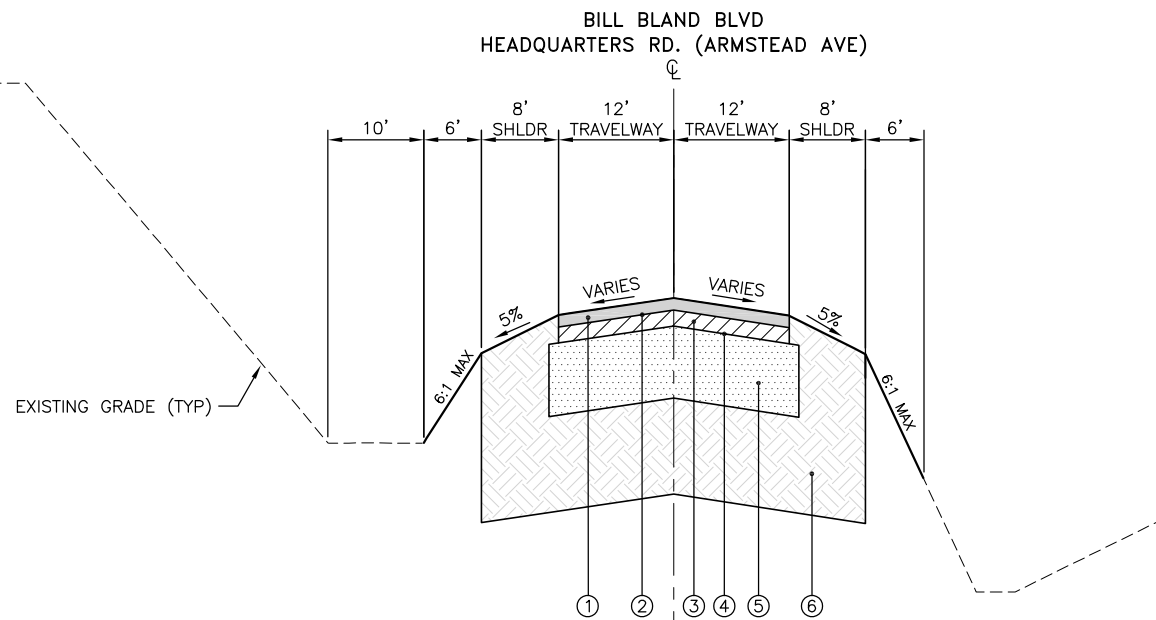
**AREA 5** - LOCATED AT BILLY B. HAIR DR. AND SAVANNAH POLICE SUB-STATION ENTRANCE DRIVE AT NEW STRUCTURE SD21. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 6** - LOCATED AT DAVIDSON DRIVE BETWEEN NEW STRUCTURES SD27 AND SD28. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, CURB & GUTTER REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 7** - LOCATED AT G.A.N.G. HEADQUARTERS RD. (ARMSTEAD AVE.) BETWEEN NEW STRUCTURES SD44 AND SD43. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, CONCRETE SIDEWALK PAVEMENT REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

**AREA 8** - LOCATED AT G.A.N.G. BILL BAND BLVD. BETWEEN NEW STRUCTURE SD41 TO SD40. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, CONCRETE SIDEWALK REPLACEMENT, ROADWAY MARKINGS AND RAISED REFLECTIVE MARKERS IF APPLICABLE.

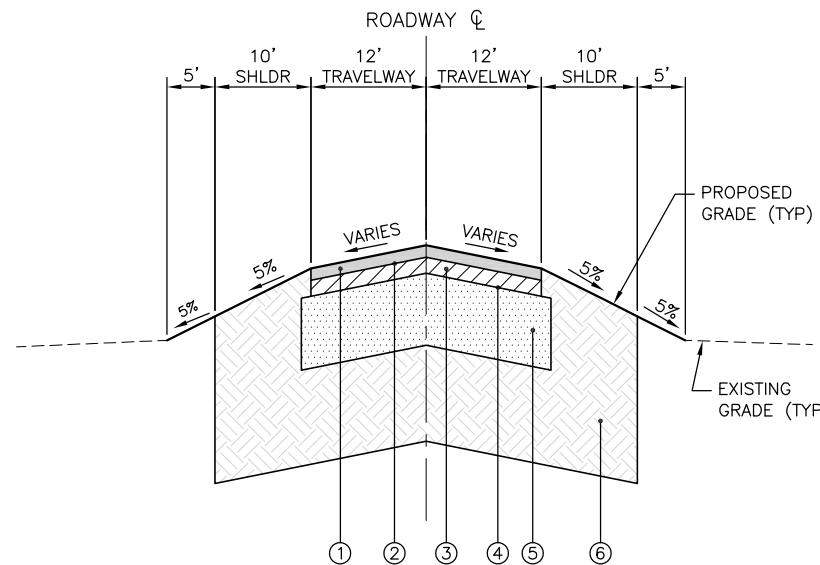
**AREA 9** - LOCATED AT THE G.A.N.G. FUEL TRUCK ACCESS DRIVE BETWEEN NEW STRUCTURES SD43 AND SD42. BID ITEM FOR THIS AREA INCLUDES ALL PAVEMENT DEMOLITION, PAVEMENT SECTION REPLACEMENT, ROADWAY MARKINGS.



**ROADWAY REPLACEMENT - TYPICAL SECTION**

N.T.S.

G.A.N.G. HEADQUARTERS RD (ARMSTEAD AVE)  
BILL BAND BLVD.



**ROADWAY REPLACEMENT - TYPICAL SECTION**

N.T.S.

BOB HARMON ROAD  
CORPORATE ROAD  
ARMSTEAD AVENUE  
BILLY B. HAIR DRIVE  
DAVIDSON DRIVE

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

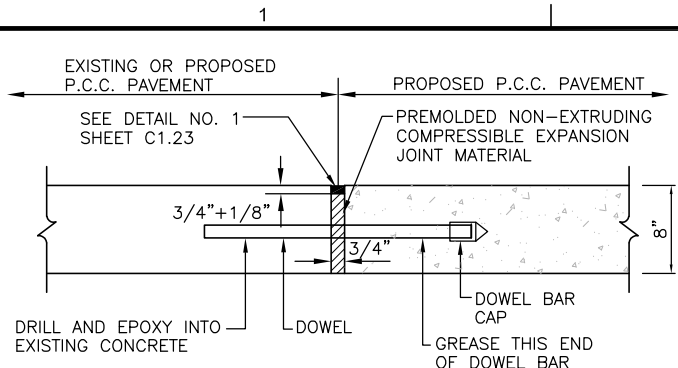


PM:	RWP
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SCALE:	AS NOTED
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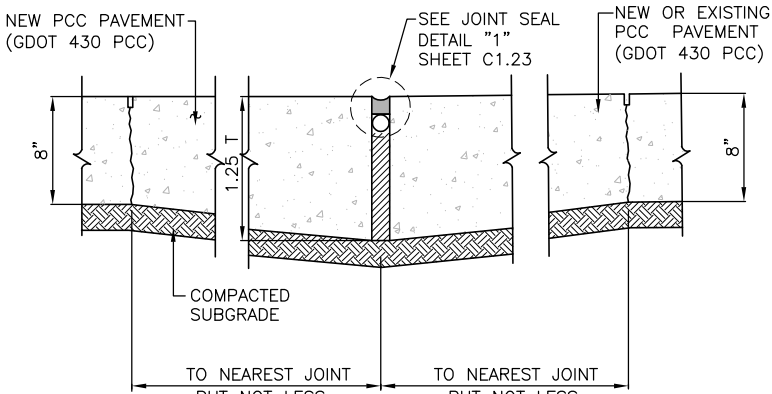
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS (1)	C1.21

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C1-21-24\_TYP\_PMT\_SECT.dwg LAYOUT NAME: C1-22 PLOTTED: Friday, February 26, 2021 8:24am USER: Norma.Presley

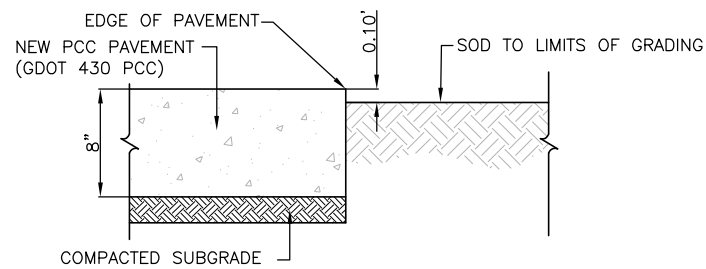


**A TYPE A EXPANSION JOINT**  
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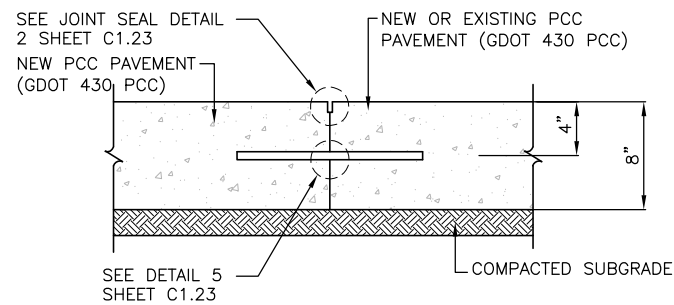


**NOTE:**  
THE THICKENED EDGE EXPANSION JOINT TO BE PAID FOR UNDER THE BID ITEM FOR NEW 8\"/>

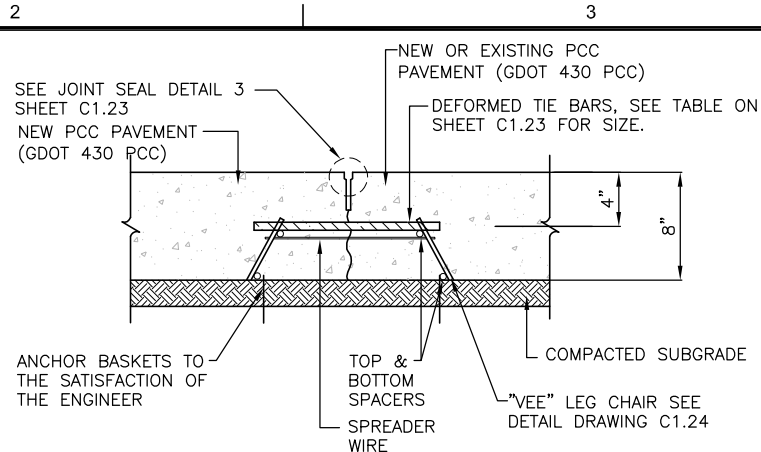
**B TYPE B THICKENED EDGE EXPANSION JOINT**  
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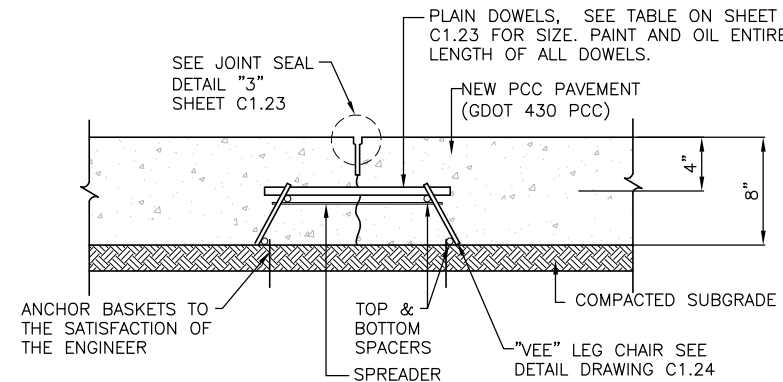
**C TYPE C CONSTRUCTION JOINT**  
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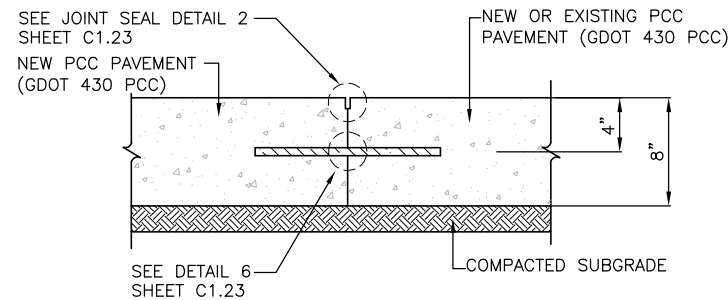
**D TYPE D DOWELED CONSTRUCTION JOINT**  
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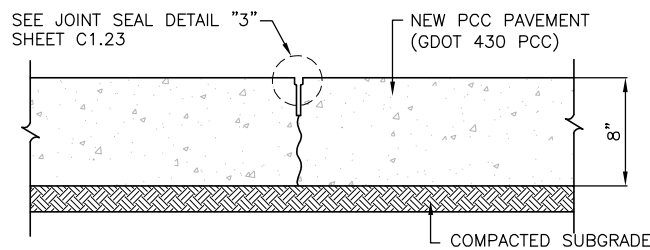
**E TYPE E DEFORMED DOWELED CONTRACTION JOINT**  
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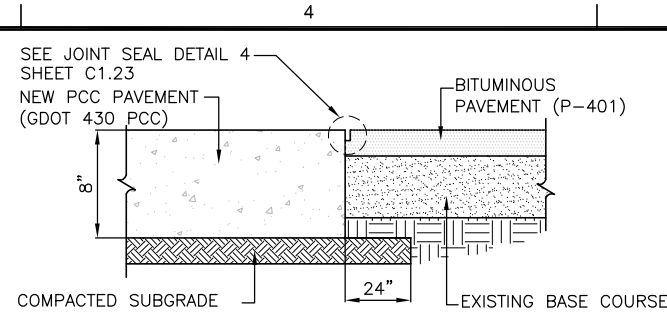
**F TYPE F DOWELED CONTRACTION JOINT**  
NOT TO SCALE



**G TYPE G DEFORMED DOWELED CONSTRUCTION JOINT**  
NOT TO SCALE



**H TYPE H DUMMY CONTRACTION JOINT**  
NOT TO SCALE



**X CONCRETE TO ASPHALT JOINT**  
NOT TO SCALE

**G.A.N.G. CONCRETE PAVEMENT RECONSTRUCTION NOTES:**

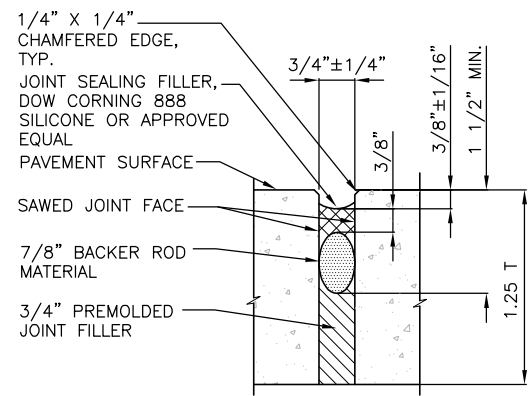
- CONTRACTOR SHALL PROVIDE HIS PROPOSED PAVING PLAN AND JOINT LAYOUT PLAN FOR THE ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION IN THE G.A.N.G. FUEL TRUCK STAGING AREA.
- THE ACCESS TO THE FUEL TRUCK STAGING AREA SHALL BE MAINTAINED.
- SEE SHEET C1.23 AND C1.24 FOR ADDITIONAL CONCRETE JOINT DETAILS AND NOTES.
- EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF THE CABLES, DUCTS, UNDERGROUND UTILITIES AND APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS, UNDERGROUND UTILITIES AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. DAMAGE TO EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES OR APPURTENANCES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIR SHALL BE BORNE BY THE CONTRACTOR.
- CAUTION SHALL BE USED WHEN REMOVING EXISTING PCC PAVEMENT PANELS SO DAMAGE TO ADJACENT PCC DOES NOT OCCUR. THE CONTRACTOR SHALL SUBMIT A PROPOSED PLAN FOR PCC PAVEMENT REMOVAL IN ALL AREAS, CONSISTENT WITH THESE GENERAL REQUIREMENTS, TO THE ENGINEER, FOR REVIEW DURING THE SHOP DRAWING REVIEW PERIOD. ANY DAMAGE TO ADJACENT PCC PAVEMENT SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. SHOULD UNDERMINING OCCUR, CONTRACTOR SHALL REPLACE IN KIND TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST OF THE BID ITEM FOR REPLACEMENT AREA NO. 9.
- LIMITS OF SAW CUTTING SHALL BE MARKED BY CONTRACTOR WITH PAINT, CHALK, OR OTHER MATERIAL CLEARLY DESIGNATING LIMITS OF SAW CUTTING.
- ALL SPALLS, CRACKS OR PAVEMENT DISTRESSES THAT ARE CAUSED BY THE CONTRACTORS WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- DURING CONCRETE DEMOLITION THE CONTRACTOR SHALL USE EXTREME CAUTION TO LIMIT THE AMOUNT OF DUST AND DEBRIS TO WITHIN THE DESIGNATED WORK AREA. AIRCRAFT WILL BE OPERATING IN AREA CLOSE TO WHERE WORK IS TAKING PLACE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE NO AIRCRAFT ARE DAMAGED.
- FINISHED GRADES ON REPLACEMENT CONCRETE PANELS SHALL BE ESTABLISHED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL GRADE ELEVATIONS SHALL CLOSELY MATCH EXISTING GRADES AND PROVIDE POSITIVE DRAINAGE.
- THE COST OF JOINT SEALING NEW CONCRETE SHALL BE INCLUDED IN THE SQUARE YARD COST OF THE CONCRETE.
- EXACT LIMITS OF CONCRETE SLAB REPLACEMENT SHALL BE AGREED UPON PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THE WORK WILL BE COMPLETED WITHIN THE PROJECT BUDGET.
- EDGES OF SLAB SHALL BE PAINTED WITH AN APPROVED CURING MATERIAL BEFORE MAKING ADJACENT POUR. A TRANSVERSE CONSTRUCTION JOINT SHALL BE INSTALLED WHEN PAVING OPERATIONS ARE INTERRUPTED FOR MORE THAN 30 MINUTES EXCEPT AT EXPANSION JOINTS OR AT END OF SLABS. IF THE INTERRUPTION IS NOT AT A PLANNED JOINT, THE CONCRETE SHALL BE REMOVED BACK TO THE PREVIOUSLY INSTALLED JOINT.
- ALL CONSTRUCTION JOINTS THAT ARE NOT OPEN AND FREE OF AGGREGATE TO THE FULL WIDTH AND DEPTH SHALL BE CLEANED BY SAWING FULL WIDTH AND DEPTH.
- DOWEL BAR INSTALLATION DEVICE (WIRE CAGE OR BASKET) AND METHOD OF ANCHORING INTO POSITION SHALL BE APPROVED BY THE ENGINEER.
- ALL TYPE 1 REINFORCED PANELS ARE TO BE CONSTRUCTED WITH 6 X 6- W2.9 X W2.9 WELDED WIRE FABRIC OR NO. 3 DEFORMED BARS AT 12\"/>

DATE	DESCRIPTION	BY	AUTH
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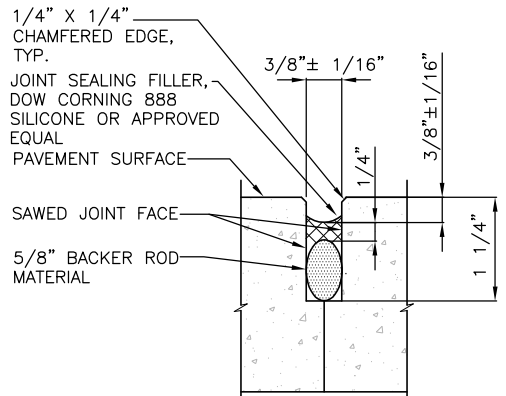


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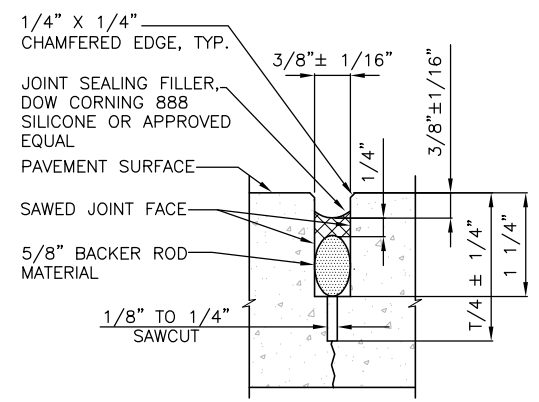
SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS	
SHEET TITLE	SHEET NO.
CONCRETE PAVING DETAILS (1)	C1.22



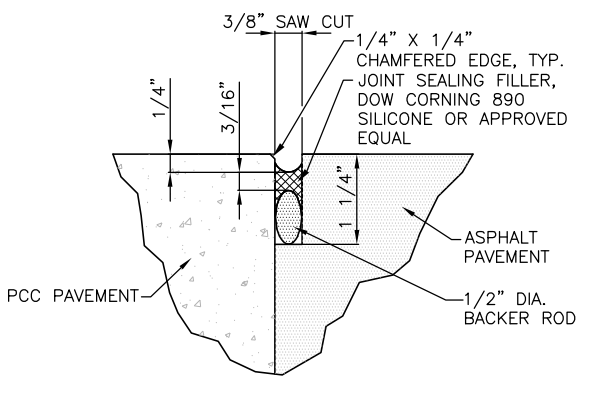
**1 EXPANSION JOINT SEAL DETAIL**  
NOT TO SCALE



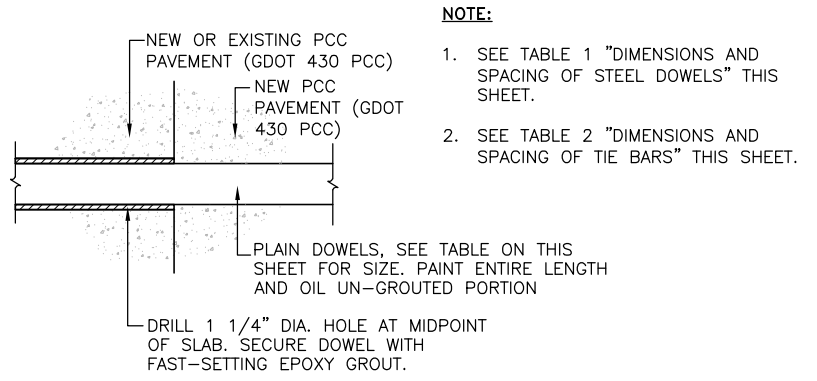
**2 CONSTRUCTION JOINT SEAL DETAIL**  
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**3 CONTRACTION JOINT SEAL DETAIL**  
NOT TO SCALE

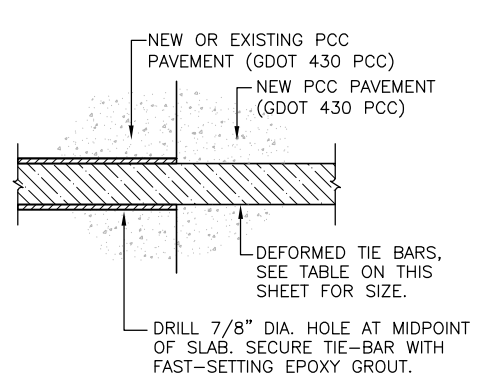


**4 TYPE X PCC TO ASPHALT JOINT SEAL DETAIL**  
NOT TO SCALE



**5 DOWEL DETAIL**  
NOT TO SCALE

- NOTE:**
- SEE TABLE 1 "DIMENSIONS AND SPACING OF STEEL DOWELS" THIS SHEET.
  - SEE TABLE 2 "DIMENSIONS AND SPACING OF TIE BARS" THIS SHEET.



**6 TIE-BAR DETAIL**  
NOT TO SCALE

DIMENSION AND SPACING OF STEEL DOWELS			
SLAB THICKNESS (T)	DIAMETER (d)	LENGTH (L)	SPACING
6" - 4"	3/4"	18"	12" O.C. MAX.
7.5" - 12"	1"	18"	12" O.C. MAX.
12.5" - 16"	1 1/4"	20"	15" O.C. MAX.
16.5" - 20"	1 1/2"	20"	18" O.C. MAX.
20.5" - 24"	2"	24"	18" O.C. MAX.

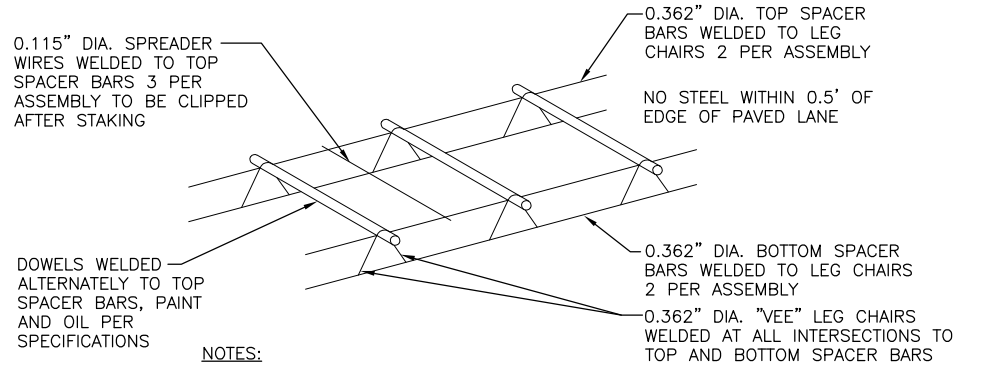
- NOTES:**
- ALL DOWELS SHALL BE INSTALLED IN ACCORDANCE TO FAA ADVISORY CIRCULAR AC 150/5320/6F OR THE LATEST VERSION.
  - ALL DOWELS PLACED TO BE PARALLEL TO TOP OF PAVEMENT GRADES.
  - ALL DOWELS PLACED TO HAVE 50% OF LENGTH ALONG JOINT LINES.
  - ALL DOWELS SHALL BE EPOXY COATED.

**TABLE 1 - DIMENSIONS AND SPACING OF STEEL DOWELS**

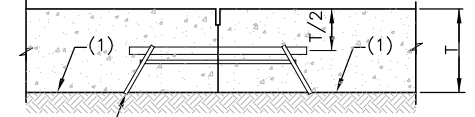
DIMENSION AND SPACING OF DEFORMED DOWELS			
SLAB THICKNESS (T)	SIZE	LENGTH (L)	SPACING
6" OR LESS	NO. 4	20"	36" O.C. MAX.
6" OR GREATER	NO. 5	30"	30" O.C. MAX.

- NOTES:**
- ALL TIE BARS SHALL BE INSTALLED IN ACCORDANCE TO FAA ADVISORY CIRCULAR AC 150/5320/6F OR THE LATEST VERSION.

**TABLE 2 - DIMENSIONS AND SPACING OF TIE BARS**



- NOTES:**
- BASKET MUST BE FIRMLY ATTACHED TO EXISTING OR NEW BASE.
  - ALL WIRE SIZES SHOWN ARE MINIMUM SIZE.
  - DOWELS SHALL BE HELD FIRMLY IN THE ABOVE WELDED ASSEMBLY.



- NOTES:**
- T IS EQUAL TO 8".

**7 TYPICAL DOWEL AND TIE BAR BASKET DETAIL**  
NOT TO SCALE

DATE	DESCRIPTION	BY	AUTH
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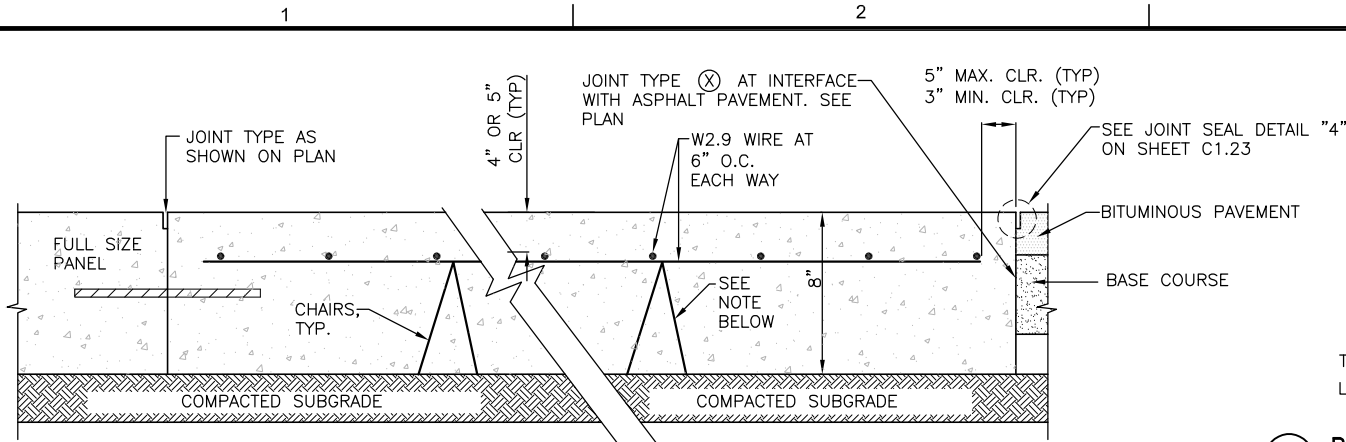
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DWG. BY: APD
CHK. BY: EJF
DSG. BY: RWP
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>CONCRETE PAVING DETAILS (2)</b>	<b>C1.23</b>

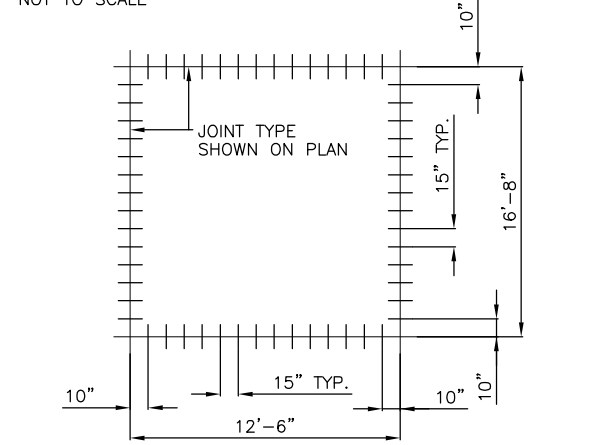
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**2 POSITION OF DOWELS AT EDGE OF JOINT DETAIL**  
NOT TO SCALE

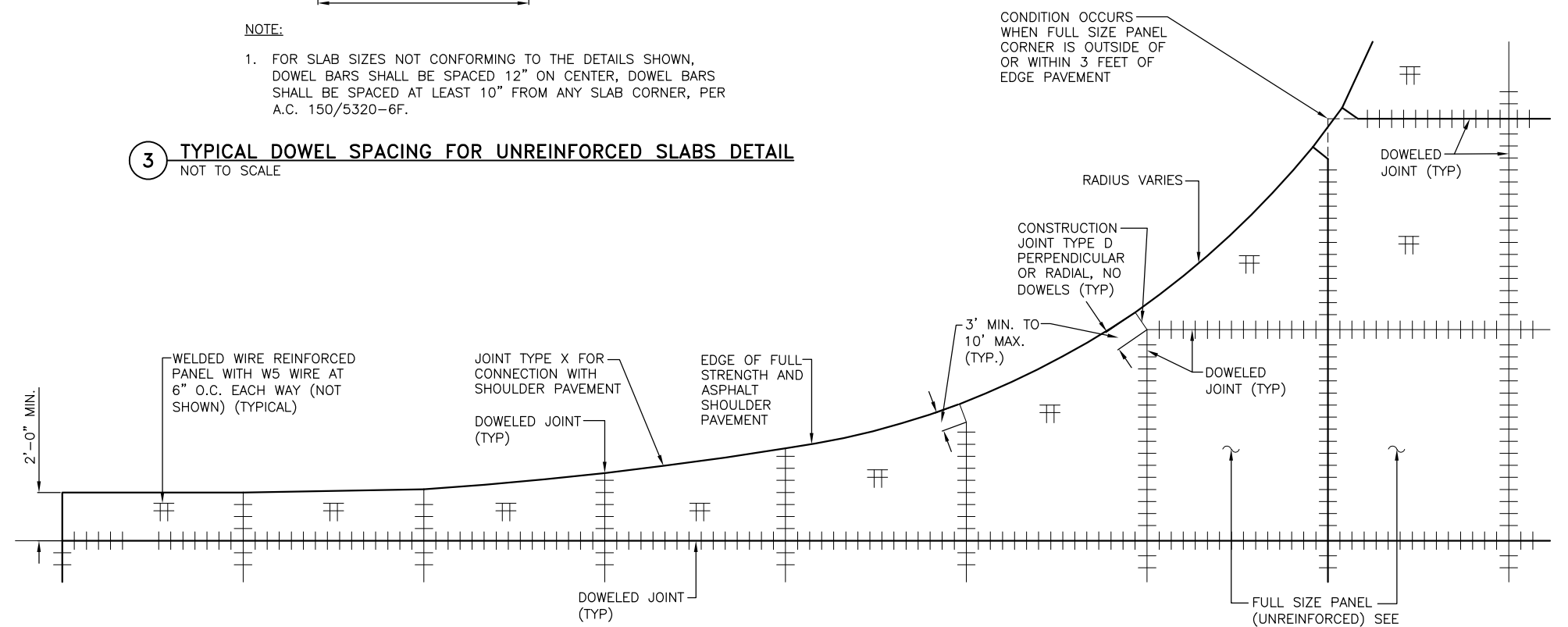


- NOTE:**
1. THE TYPE 1 REINFORCEMENT DETAIL SHOWN ABOVE IS USED FOR IRREGULAR SIZED PAVEMENT SLABS.
  2. ALL TYPE 1 REINFORCED PANELS ARE TO BE CONSTRUCTED WITH 6x6xW2.9 WELDED WIRE FABRIC OR NO. 3 DEFORMED BARS AT 12"x12" ON CENTER, COST IS INCIDENTAL TO REPLACEMENT AREA NO. 9. ALL REINFORCING STEEL SHALL BE SUPPORTED BY CHAIRS.
  3. SPACING SHALL BE ESTABLISHED TO ELIMINATE SAG IN REINFORCEMENT DURING CONCRETE PLACEMENT. REINFORCING STEEL SHALL BE SUPPORTED BY CHAIRS NO MORE THAN 3' APART OR AS NECESSARY TO SATISFY THIS REQUIREMENT.
  4. REINFORCEMENT SUPPORT CHAIR SHALL BE TIED TO REINFORCING PRIOR TO CONCRETE PLACEMENT, TYPICAL.

**1 CONCRETE SLAB TYPE 1 REINFORCEMENT DETAIL**  
NOT TO SCALE

- NOTE:**
1. FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 12" ON CENTER, DOWEL BARS SHALL BE SPACED AT LEAST 10" FROM ANY SLAB CORNER, PER A.C. 150/5320-6F.

**3 TYPICAL DOWEL SPACING FOR UNREINFORCED SLABS DETAIL**  
NOT TO SCALE



**4 IRREGULAR SIZED PAVEMENT SLAB DETAIL - PLAN VIEW**  
NOT TO SCALE

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PM:	RWP
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DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

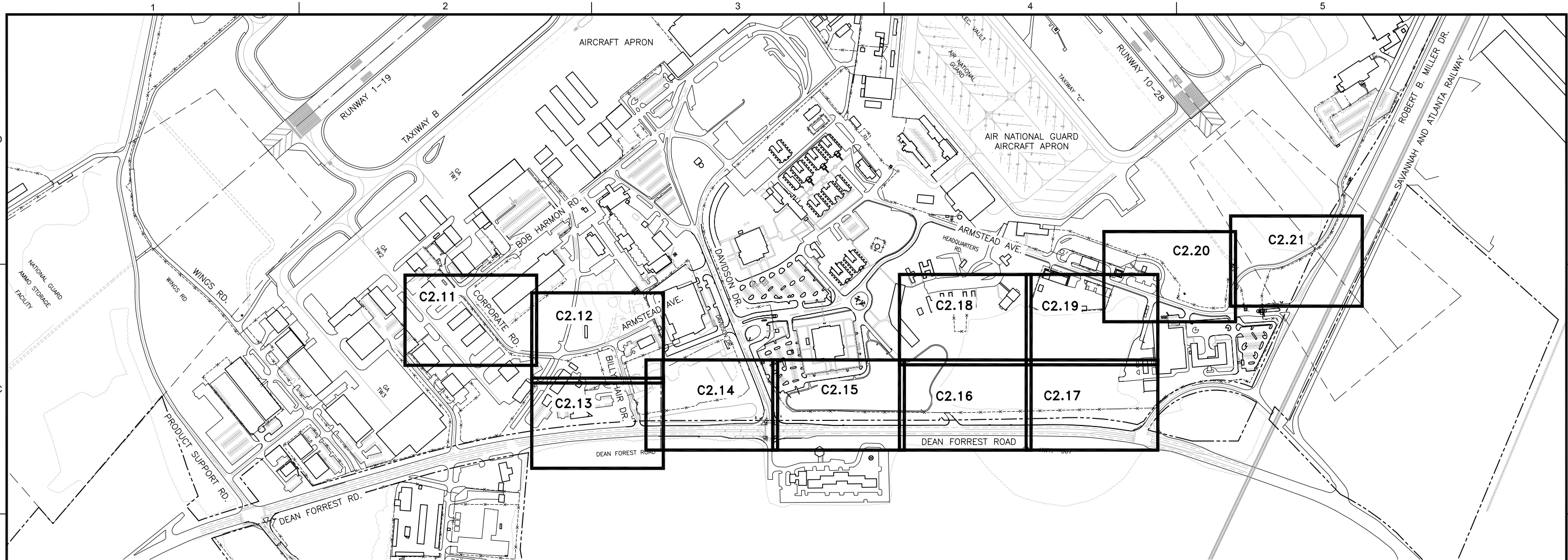
SHEET TITLE

**CONCRETE PAVING DETAILS (3)**

SHEET NO.

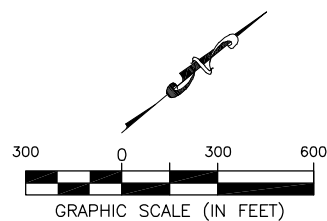
**C1.24**

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\900-Work\910 CAD\20-SHEETS\C2-00 KEY PLAN DEMO.dwg LAYOUT NAME: C2-00 PLOTTED: Friday, February 26, 2021 - 8:24am USER: Norma.Pressley



**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.



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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>EXISTING CONDITIONS &amp; DEMOLITION KEY PLAN</b>	<b>C2.00</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910 CAD\20-SHEETS\C2-01 DEMO NTS.dwg LAYOUT NAME: C2-01 PLOTTED: Friday, February 26, 2021 - 8:25am USER: Norma.Pressley

**GENERAL NOTES:**

- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
- SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
- SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
- SEE SHEET G3.01 FOR SAFETY DETAILS.
- SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
- SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
- SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
- SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
- SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
- SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
- SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
- SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
- SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
- SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
- SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
- SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
- SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
- SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.

**UTILITY NOTES:**

- CONTRACTOR SHALL WORK CLOSELY WITH THE UTILITY COMPANIES, CITY OF SAVANNAH, CHATHAM COUNTY AND THE AIRPORT STAFF AND RESIDENT ENGINEER IN THE AREA OF EXISTING UTILITIES TO REMAIN AND UTILITIES WHICH ARE TO BE RELOCATED, LOWERED, RAISED, ETC. TO ENSURE THAT ALL UTILITIES; EXISTING TO REMAIN OR RELOCATED, HAVE THE APPROPRIATE DEPTH, SEPARATION AND ENCASUREMENT. THESE UTILITIES ARE SHOWN WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE ROUTING OF THE EXISTING UTILITIES IS APPROXIMATE AND SHOWN SCHEMATICALLY AND MUST BE FIELD VERIFIED. THE CONTRACTOR IS SPECIFICALLY WARNED AGAINST SCALING LOCATIONS OF ANY UNDERGROUND UTILITIES INDICATED IN THESE PLANS. THE CONTRACTOR WILL USE ELECTRONIC DETECTION DEVICES AND CAREFUL HAND EXCAVATION TO LOCATE ANY UNDERGROUND UTILITIES WHICH ARE CRITICAL FOR SAFE CONSTRUCTION OPERATIONS. CONTRACTOR SHALL "POTHOLE" THE EXISTING UTILITIES TO DETERMINE THE LOCATION, DEPTH AND SEPARATION OF EACH UTILITY LOCATED UNDER THE PROPOSED PAVEMENT. THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND RESIDENT ENGINEER DETAILED FIELD LOCATIONS FOR EXISTING AND PROPOSED UTILITIES THAT ARE PLANNED UNDER PROPOSED PAVEMENT.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL FIRST COORDINATE WITH ALL UTILITY COMPANIES AND THE AIRPORT STAFF TO LOCATE ALL EXISTING FAA, UNDERGROUND ELECTRICAL, OVERHEAD ELECTRICAL, NATURAL GAS, SANITARY SEWER, CATV, FIBER OPTICS AND COMMUNICATIONS, WATER AND OTHER UTILITIES AND FEATURES (WHETHER OR NOT SHOWN ON THESE PLAN) AFFECTING HIS WORK.
- SEE EXISTING UTILITIES AND RELOCATION PLANS FOR ALL RELOCATIONS AND/OR MODIFICATIONS TO EXISTING UTILITIES IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW STORM DRAIN SYSTEM.
- IF ANY FEATURE(S) MUST BE REMOVED IN ORDER TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE FEATURE(S) TO THE SAME OR BETTER CONDITION THAT IT WAS BEFORE REMOVAL.
- FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE RESIDENT ENGINEER.

**WETLAND NOTES:**

- THE CONTRACTOR SHALL NOT ENTER UPON IN ANY WAY OR ALTER THE EXISTING WETLAND AREAS THAT ARE ON SITE EXCEPT AS DIRECTED BY THESE PLANS OR THE ENGINEER. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE AND SHALL PAY, AT NO COST TO SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT, ANY FINE RESULTING FROM THE CONTRACTORS VIOLATION OF PERMIT CONDITIONS OR LOCAL, STATE, OR FEDERAL RULE, STATUE, OR LAW.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF ALL APPLICABLE PERMITS ISSUED BY ENVIRONMENTAL PERMITTING AND REGULATORY AGENCIES TO THIS SITE. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF PERMITS AND/OR APPROVALS. COPIES OF THE PERMITS WILL BE AVAILABLE FROM SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT, AND SHALL BE POSTED OR MAINTAINED ON-SITE AS REQUIRED BY PERMIT CONDITIONS.
- THE CONTRACTOR SHALL ESTABLISH HIS INTERNAL HAUL ROUTES IN A MANNER THAT SHALL NOT DISTURB ANY EXISTING WETLAND AREAS TO REMAIN OR UPLAND TREES.
- MITIGATION CREDITS MUST BE PURCHASED BY THE SAVANNAH AIRPORT COMMISSION PRIOR TO DESTROYING EXISTING WETLANDS. THE AIRPORT WILL PROVIDE THE CONTRACTOR WITH SEPARATE NOTICE-TO-PROCEED ON WETLAND WORK IN THE FUTURE AVIATION DEVELOPMENT AREAS DURING ON-GOING CONSTRUCTION. THE CONTRACTOR IS HERE-BY ALERTED THAT THIS MAY REQUIRE SEPARATE MOBILIZATION OF EQUIPMENT AND PERSONNEL AND THAT NO ADDITIONAL PAYMENT WILL BE MADE IF ADDITIONAL MOBILIZATION IS REQUIRED.

**TREE CLEARING NOTES:**

- SEE SHEET C1.02 AND C1.03 TREE DEMOLITION PLANS FOR LIMITS OF CLEARING AND GRUBBING.
- PRIOR TO BEGINNING ANY CLEARING, THE CONTRACTOR SHALL PLACE RIBBONS AROUND TRUNKS OF THE TREES AT SUFFICIENT INTERVALS TO CLEARLY DEFINE THE LIMITS OF CLEARING AS SHOWN ON THE PLANS. THESE LIMITS SHALL BE JOINTLY INSPECTED BY THE CONTRACTOR AND ENGINEER BEFORE CLEARING BEGINS.
- THE CONTRACTOR MAY ELECT TO CONDUCT TRANSVERSE SURVEY OF THE AREAS TO BE CLEARED FOR MEASUREMENT AND PAYMENT PURPOSES. SURVEY NOTES AND CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO ANY CLEARING. IF SURVEY IS NOT PROVIDED BY THE CONTRACTOR THEN THE PLAN QUANTITIES SHALL GOVERN.
- TREE CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE ENTIRE LIMITS OF PROPOSED PROJECT GRADING. ADDITIONAL CLEARING, OUTSIDE THE LIMITS OF PROJECT GRADING AS SHOWN, IS REQUIRED TO REMOVE OBVIOUS REMNANT CLUSTERS OF TREES AND PROVIDE SUFFICIENT WORKING SPACE FOR EQUIPMENT TO CONSTRUCT THE GRADES SHOWN. ADDITIONALLY, 10' TO 15' OF TREE CLEARING SHALL BE PERFORMED OUTSIDE OF PROPOSED FENCE AREAS WHICH, IN SOME CASES, IS OUTSIDE OF THE LIMITS OF PROPOSED GRADING. THE EXACT LIMITS OF CLEARING SHALL BE COORDINATED WITH THE GRADING AND DRAINAGE PLANS.
- CONTRACTOR SHALL TAKE EXTREME CARE TO MINIMIZE THE ENCROACHMENT (I.E., WITH EQUIPMENT, PERSONNEL, EARTH, CLEARED TREES, ETC.) INTO EXISTING STREAMS, STREAM BANKS AND WETLANDS WHICH ARE TO REMAIN UNDISTURBED FOR THIS PROJECT.
- REFER TO SPECIFICATION P-151 FOR CLEARING AND GRUBBING REQUIREMENTS.
- ALL CLEARING AND GRUBBING DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY. COST OF REMOVAL AND DISPOSAL OFF AIRPORT PROPERTY SHALL BE INCLUDED IN BID ITEM "HEAVY CLEARING & GRUBBING".
- MULCHING OR "SMOKELESS BURNING" OF THE TREES SCHEDULED FOR REMOVAL SHALL BE DONE ON AIRPORT PROPERTY. AREAS WHERE THE TREE MULCHING OR BURNING SHALL TAKE PLACE SHALL BE DESIGNATED BY THE ENGINEER IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BURN PERMITS REQUIRED BY STATE OR LOCAL AGENCIES.

**GRADING AND DRAINAGE GENERAL NOTES:**

- THE CONTRACTOR SHALL WILL FOLLOW ALL SPECIFICATIONS AND GUIDELINES AS ESTABLISHED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD INDEX AND SPECIFICATIONS.
- ALL STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT WILL BE CONSTRUCTED AS INDICATED IN GDOT STANDARD INDEX NO. 1401.
- ALL NEW GDOT INLETS WILL BE CONSTRUCTED AS INDICATED IN GDOT STANDARD INDEX 1019A AND 1019B.
- ALL NEW GDOT HEADWALLS WILL BE CONSTRUCTED AS INDICATED IN THE GDOT STANDARD INDEX NO. 1001-B.
- ALL RIPRAP OUTLET PROTECTION SHALL BE CONSTRUCTED AS INDICATED IN THE GRADING AND DRAINAGE PLANS USING FABRIFORM REVETMENT AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC), 2016 EDITION OR LATER.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE ACCORDING TO THE LATEST MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC).

**DEMOLITION NOTES:**

- PAY ITEMS HAVE BEEN ESTABLISHED AND DESIGNATED FOR SPECIFIC ITEMS OF REMOVAL AND DEMOLITION AND ARE INDICATED ON THE BID SCHEDULE. ALL ITEMS IDENTIFIED FOR REMOVAL BY THE CONTRACTOR ON THESE DRAWINGS FOR WHICH A PAY ITEM HAS NOT BEEN IDENTIFIED SHALL BE INCLUDED IN THE LUMP SUM ITEM FOR "MISCELLANEOUS DEMOLITION", PER SPECIFICATION SECTION P-101.
- ALL ASPHALT OR CONCRETE PAVEMENT REMOVED BY THE CONTRACTOR UNDER THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE IN A LEGAL MANNER, AT THE EXPENSE OF THE CONTRACTOR.
- PAVEMENT REMOVAL AND REPLACEMENT SHALL BE MEASURED AND PAID FOR ON THE BASIS OF THE ACCEPTED AREAS NOTED IN THE DRAWINGS.
- DEMOLITION OF ALL INLETS, MANHOLES, CONCRETE GUTTERS, RIP-RAP, STORM SEWER PIPE, AND ANY OTHER STORM SEWER ITEM BEING REMOVED AND/OR DISPOSED OF SHALL BE INCIDENTAL TO ITEM P-101-5.3, DRAINAGE DEMOLITION.
- THE CONTRACTOR SHALL VERIFY LOCATION AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION, TO INSURE THAT ONLY THE UTILITIES AND FEATURES MARKED FOR DEMOLITION ARE REMOVED AND OTHER UTILITIES AND FEATURES ARE NOT DISTURBED. ANY UTILITIES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT HIS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL FIRST COORDINATE WITH ALL UTILITY COMPANIES AND THE AIRPORT STAFF TO LOCATE ALL EXISTING FAA, UNDERGROUND ELECTRICAL, OVERHEAD ELECTRICAL, NATURAL GAS, SANITARY SEWER, CATV, FIBER OPTICS AND COMMUNICATIONS, WATER AND OTHER UTILITIES AND FEATURES (WHETHER OR NOT SHOWN ON THESE PLANS) AFFECTING HIS WORK.
- THE OWNER WILL PROVIDE AN ADDRESS AND LOCATION FOR DELIVERY OF ANY SALVAGEABLE ITEM TO BE DELIVERED TO HIM BY THE CONTRACTOR. FOR BID PURPOSES ASSUME DELIVERY TO BE THE SAVANNAH AIRPORT MAINTENANCE FACILITY.
- ALL ITEMS CONSIDERED SALVAGEABLE WILL BE DELIVERED TO SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT AT A LOCATION DESIGNATED BY THE OWNER. FOR BID PURPOSES ASSUME DELIVERY TO BE THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT MAINTENANCE FACILITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING, DEACTIVATED AND DECOMMISSIONED UNDERGROUND UTILITIES WITHIN THE EARTHWORK EXCAVATION LIMITS OF THIS PROJECT.
- THE A.O.A. (AIRPORT OPERATIONS AREA) SHALL REMAIN SECURE AT ALL TIMES.
- THE G.A.N.G. (GEORGIA AIR NATIONAL GUARD) PROPERTY SHALL REMAIN SECURE AT ALL TIMES.
- EXACT LIMITS OF FENCE REMOVAL SHALL BE COORDINATED WITH THE PROPOSED FENCE INSTALLATION PLAN AND SHALL BE VERIFIED IN THE FIELD WITH THE ENGINEER.
- EXISTING CONCRETE FENCE POST FOUNDATIONS SHALL BE REMOVED AS PART OF THE FENCE REMOVAL. CONTRACTOR SHALL DELIVER ALL USABLE FENCE, POSTS, EQUIPMENT, ETC. TO AN ON-AIRPORT LOCATION DESIGNATED BY THE OWNER.
- EXISTING SERVICES SHALL NOT BE REMOVED OR DISRUPTED, UNLESS COORDINATED AND APPROVED BY THE APPROPRIATE UTILITY COMPANY, UNTIL THE NEW OR RELOCATED SERVICE (IF APPLICABLE) HAS BEEN INSTALLED.
- NO DELAY CLAIMS OR ANY OTHER CLAIMS BY THE CONTRACTOR WILL BE CONSIDERED RELATING TO THE REMOVAL AND INSTALLATION OF UTILITIES BY THE UTILITY COMPANIES.
- ALL UTILITY DEMOLITION ACTIVITIES SHALL BE COORDINATED WITH THE UTILITY COMPANIES.
- ~~EXISTING STORM PIPE TO BE PLUGGED:~~ THE CONTRACTOR SHALL REMOVE ALL EXISTING STORM PIPE INDICATED TO BE PLUGGED TO ONE FOOT FROM THE EDGE OF THE EXISTING ROADWAY PAVEMENT AND THEN PLUG THE EXISTING PIPE TO REMAIN USING GROUT. THE COST OF PLUGGING THE STORM PIPE OPENING IS INCIDENTAL TO THE COST OF REMOVING THE STORM PIPE.
- ~~EXISTING STORM PIPE TO BE REMOVED TO EXISTING STRUCTURE TO REMAIN:~~ THE CONTRACTOR SHALL REMOVE THE EXISTING PIPE INDICATED TO THE EXISTING STRUCTURE TO REMAIN AND THEN PLUG THE STRUCTURE OPENING USING BRICK. THE COST OF PLUGGING THE STRUCTURE OPENING IS INCIDENTAL TO THE COST OF REMOVING THE STORM PIPE.
- THE COST OF OPEN CUT EXISTING PAVEMENT REMOVAL AND REPLACEMENT FOR INSTALLATION OF THE STORM PIPE IS BEING BID AS INDIVIDUAL AREAS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE LUMP SUM COST OF EACH AREA WILL INCLUDE ALL ITEMS REQUIRED TO CONSTRUCT THE NEW ROADWAY PAVEMENT TO IT'S ORIGINAL CONDITION, WHICH INCLUDES BUT IS NOT LIMITED TO, THE NEW ROADWAY PAVEMENT SECTION, ROADWAY MARKINGS, CURB & GUTTER (IF APPLICABLE), ADJACENT SIDEWALK SECTION (IF APPLICABLE,, RAISED REFLECTIVE MARKERS, ETC.

**CALL BEFORE YOU DIG -- UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 72 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
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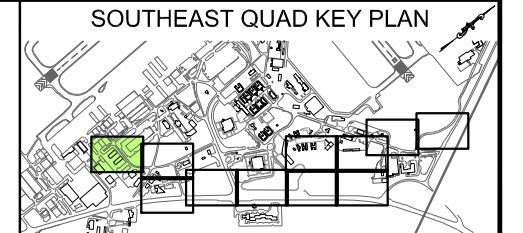
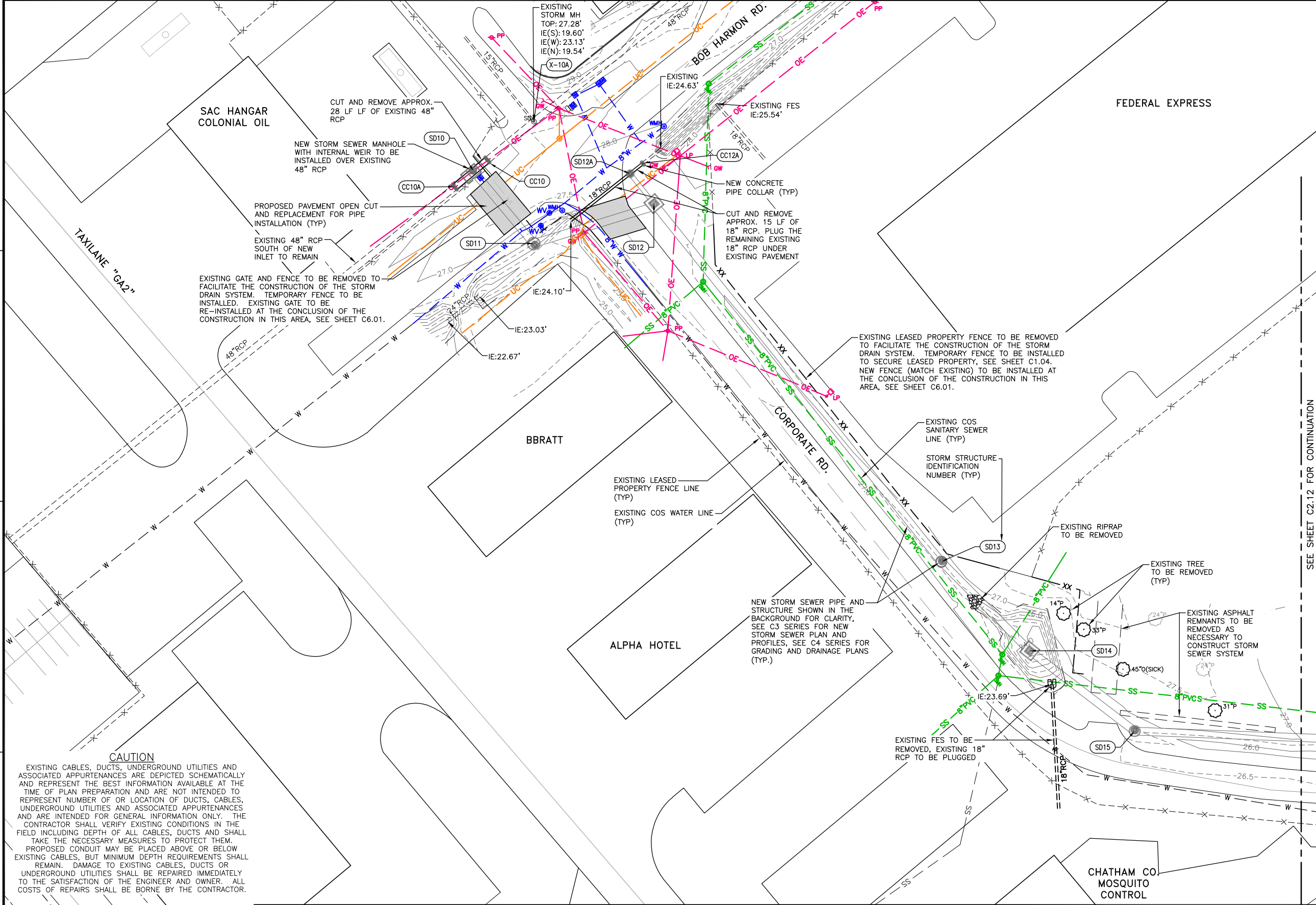


PM:	RWP
DWG. BY:	APD
CHK. BY:	EJF
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>EXISTING CONDITIONS &amp; DEMOLITION NOTES (1)</b>	<b>C2.01</b>

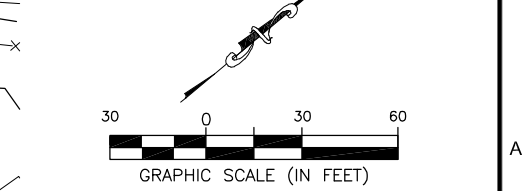
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-11 PLOTTED: Friday, February 26, 2021 8:25am USER: Norma.Presley



- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
  - SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD 10, 11, 12, 13, 14, 15 — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD 20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
  - EXISTING RIP-RAP TO BE REMOVED
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - 33" T — EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - 24" T — EXISTING TREE TO REMAIN
  - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX — EXISTING FENCE TO BE REMOVED
  - X — EXISTING FENCE TO REMAIN

- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANC — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)



**CAUTION**  
 EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

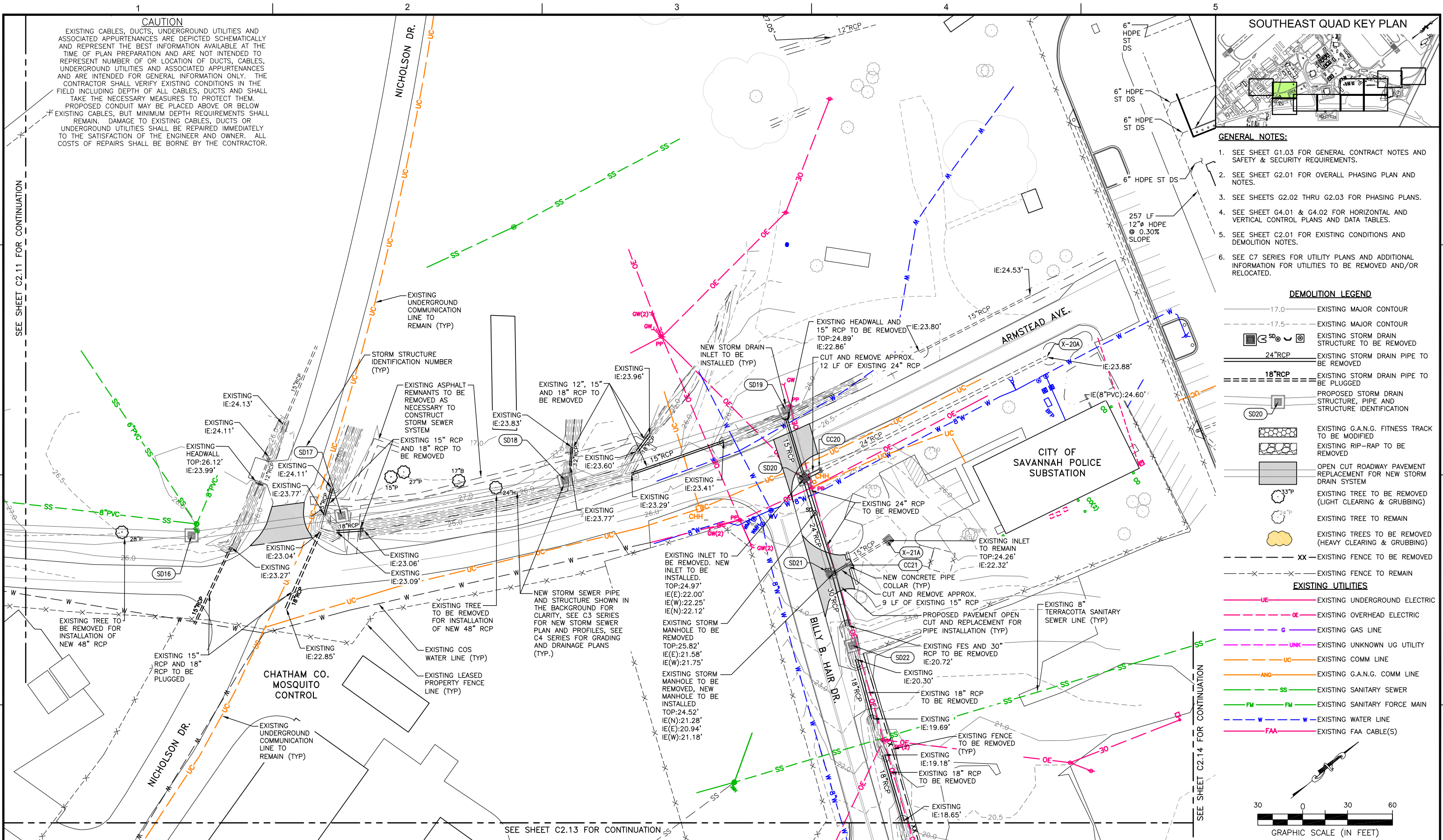
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (1)**

SHEET NO. **C2.11**

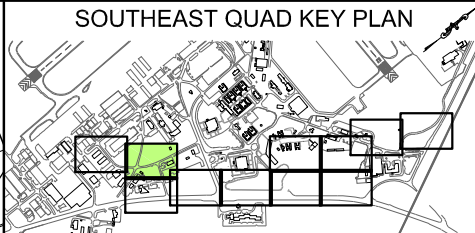
DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuad\Design\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-12 DEMO USER: Norma.Presley PLOTTED: Friday, February 26, 2021 - 8:25am



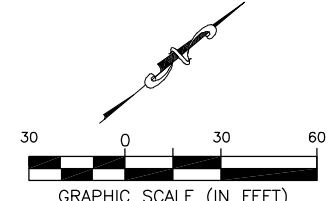
**CAUTION**  
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- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
  - SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - XX — EXISTING FENCE TO BE REMOVED
  - XX — EXISTING FENCE TO REMAIN

- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANC — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)



**CALL BEFORE YOU DIG — UTILITIES PROTECTION CENTER**  
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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

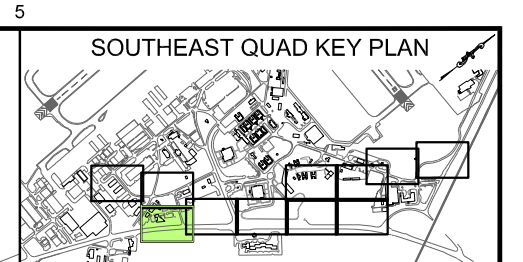
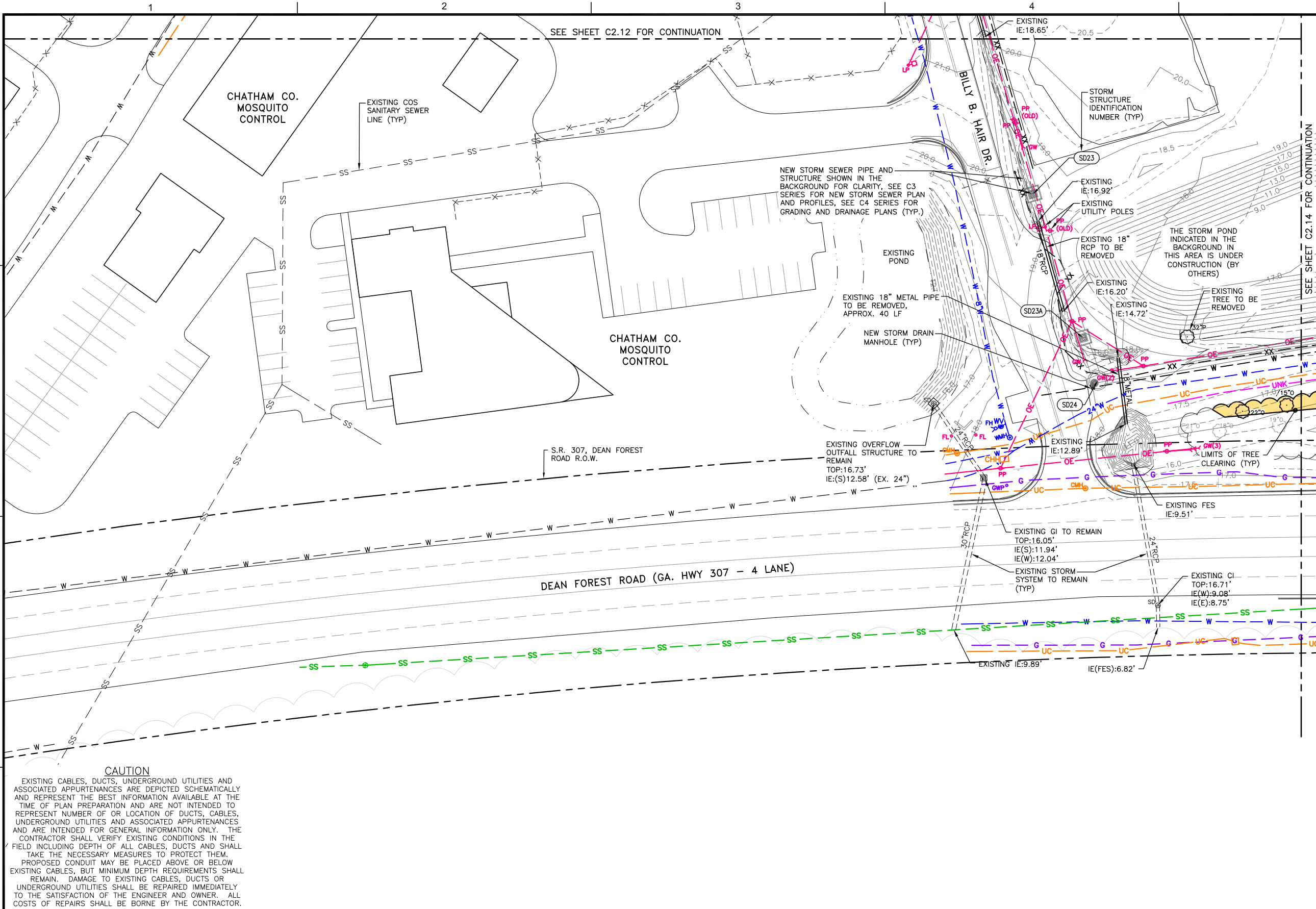
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (2)**

SHEET NO.: **C2.12**

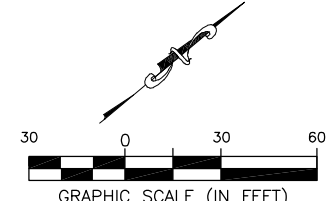
DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\900-Work\910 CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-13 PLOTTED: Friday, February 26, 2021 - 8:25am USER: Norma.Presley



- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
  - SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 - EXISTING MAJOR CONTOUR
  - 17.5 - EXISTING MAJOR CONTOUR
  - SD (with symbol) - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24"RCP (with symbol) - EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18"RCP (with symbol) - EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 (with symbol) - PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - (with symbol) - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
  - (with symbol) - EXISTING RIP-RAP TO BE REMOVED
  - (with symbol) - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - (with symbol) - EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - (with symbol) - EXISTING TREE TO REMAIN
  - (with symbol) - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX - EXISTING FENCE TO BE REMOVED
  - X - EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE - EXISTING UNDERGROUND ELECTRIC
  - OE - EXISTING OVERHEAD ELECTRIC
  - G - EXISTING GAS LINE
  - UNK - EXISTING UNKNOWN UG UTILITY
  - UC - EXISTING COMM LINE
  - ANC - EXISTING G.A.N.G. COMM LINE
  - SS - EXISTING SANITARY SEWER
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  - FAA - EXISTING FAA CABLE(S)



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**SAVANNAH HILTON HEAD INTERNATIONAL**  
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 400 Airways Avenue  
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

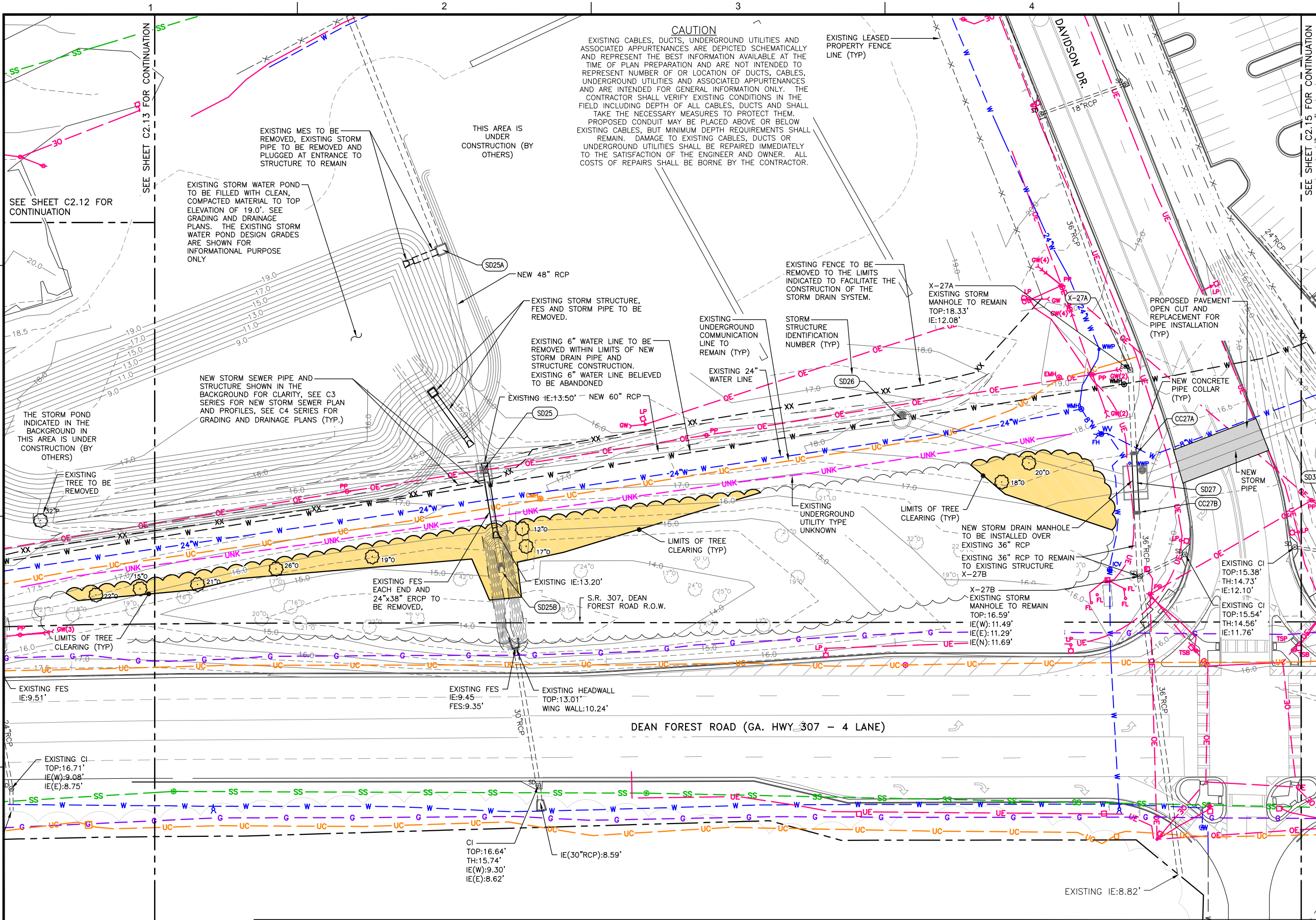
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (3)**

SHEET NO.: **C2.13**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-14 PLOTTED: Friday, February 26, 2021 - 8:26am USER: Norma.Presley



### SOUTHEAST QUAD KEY PLAN

**GENERAL NOTES:**

- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
- SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
- SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
- SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
- SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
- SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

**DEMOLITION LEGEND**

- 17.0 — EXISTING MAJOR CONTOUR
- - - 17.5 - - - EXISTING MAJOR CONTOUR
- EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
- EXISTING STORM DRAIN PIPE TO BE REMOVED
- EXISTING STORM DRAIN PIPE TO BE PLUGGED
- PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
- EXISTING RIP-RAP TO BE REMOVED
- OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
- EXISTING TREE TO REMAIN
- EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
- - - XX - - - EXISTING FENCE TO BE REMOVED
- - - X - - - EXISTING FENCE TO REMAIN

**EXISTING UTILITIES**

- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS LINE
- EXISTING UNKNOWN UG UTILITY
- EXISTING COMM LINE
- EXISTING G.A.N.G. COMM LINE
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCE MAIN
- EXISTING WATER LINE
- EXISTING FAA CABLE(S)

GRAPHIC SCALE (IN FEET)

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM: RWP
DWG. BY: APD
CHK. BY: SGH
DSG. BY: RWP
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

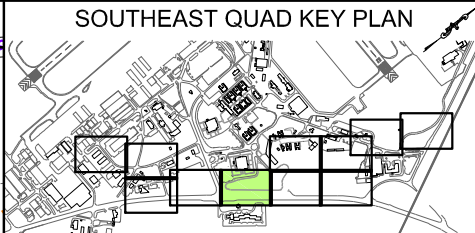
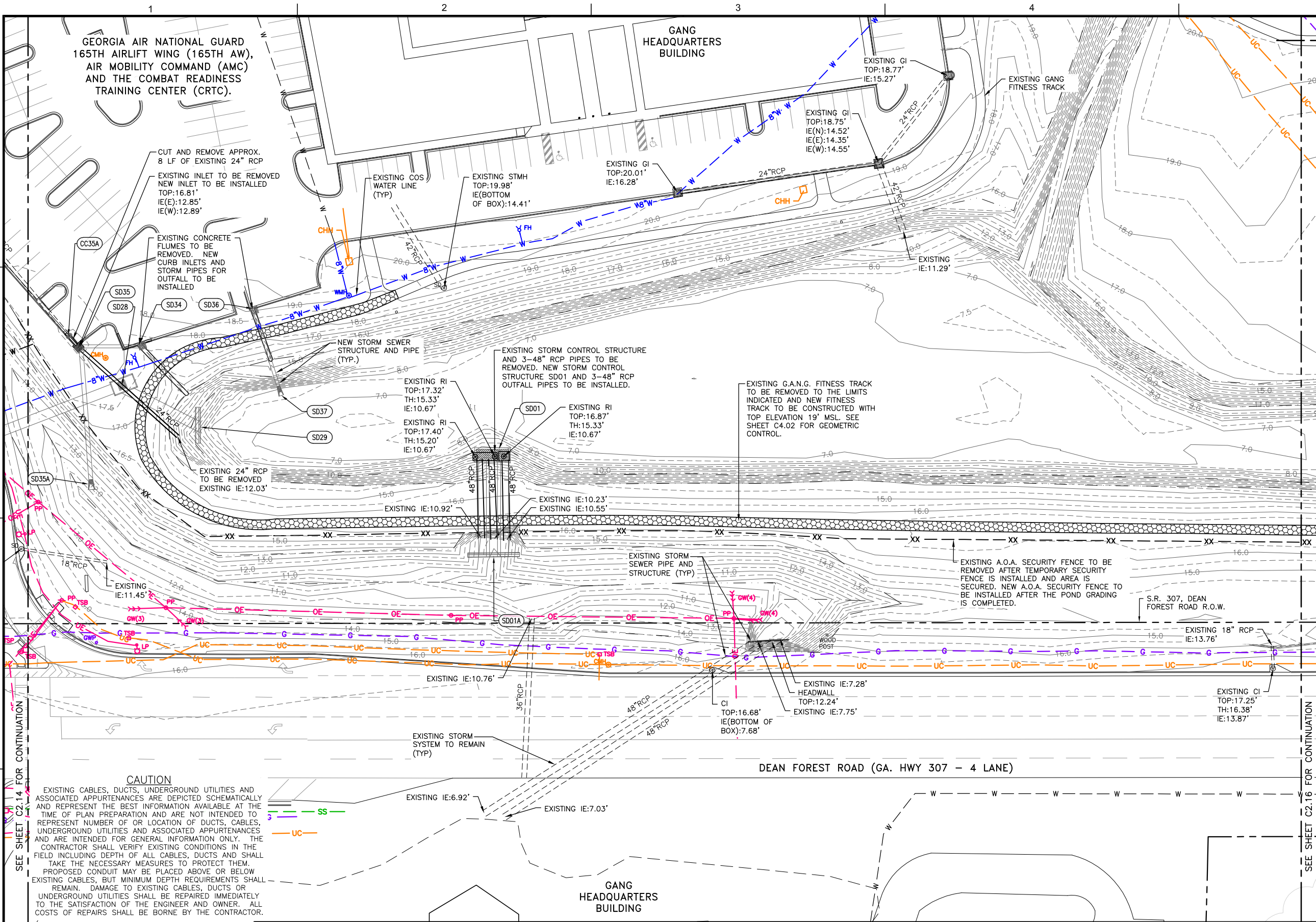
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (4)**

SHEET NO. **C2.14**

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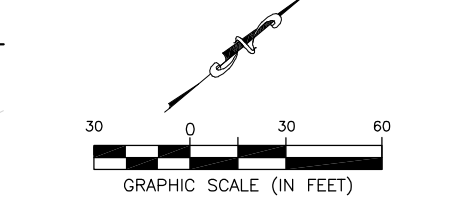
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-15 PLOTTED: Friday, February 26, 2021 - 8:26am USER: Norma.Presley



- GENERAL NOTES:**
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  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 - EXISTING MAJOR CONTOUR
  - 17.5 - EXISTING MAJOR CONTOUR
  - SD - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24\"/>

- EXISTING UTILITIES**
- UE - EXISTING UNDERGROUND ELECTRIC
  - OE - EXISTING OVERHEAD ELECTRIC
  - G - EXISTING GAS LINE
  - UNK - EXISTING UNKNOWN UG UTILITY
  - UC - EXISTING COMM LINE
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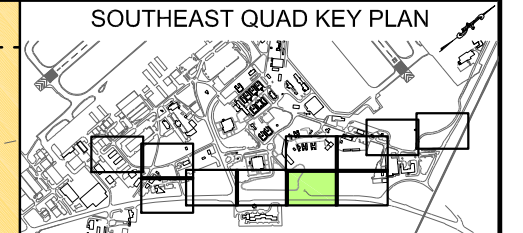
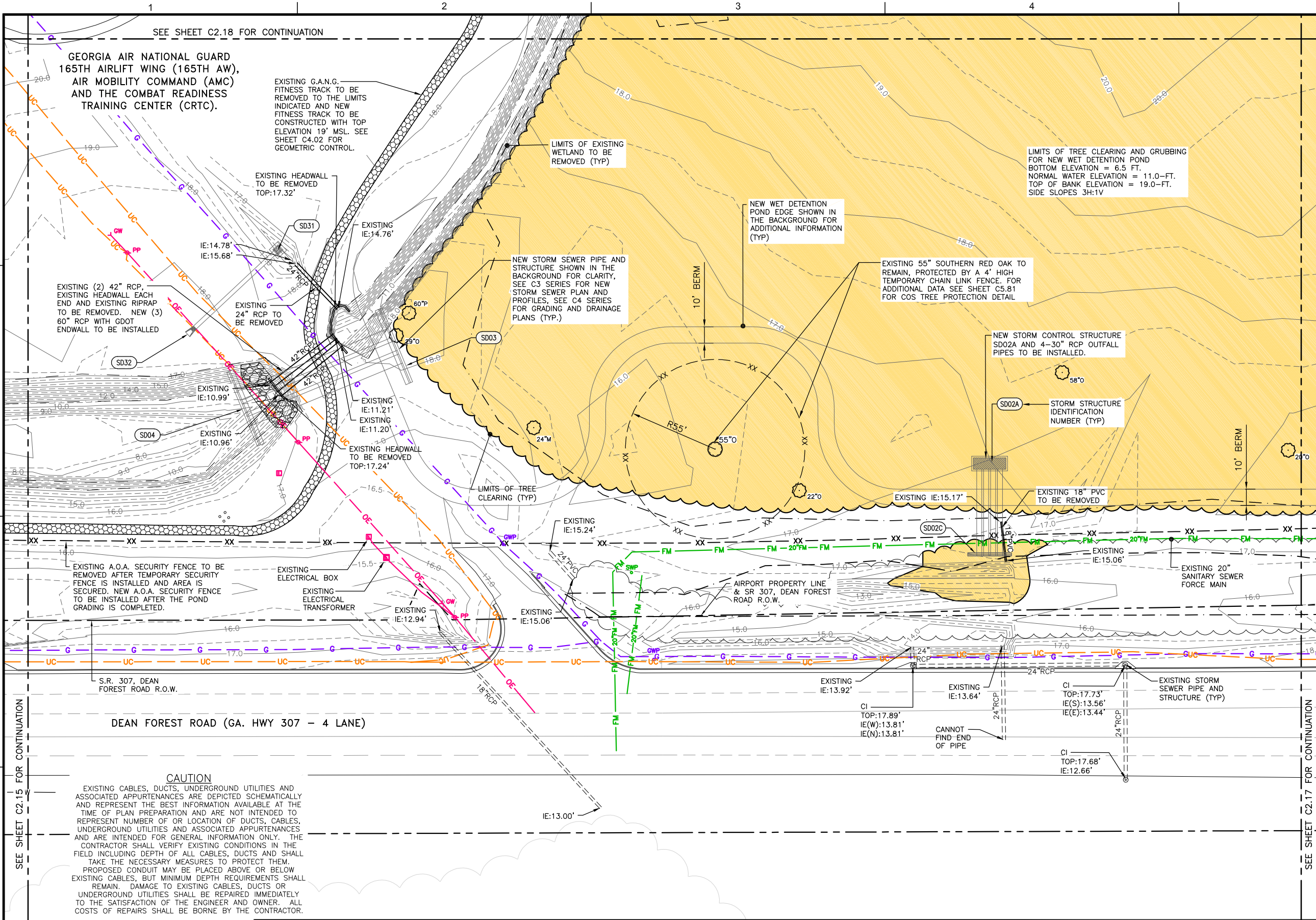
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (5)**

SHEET NO.: **C2.15**

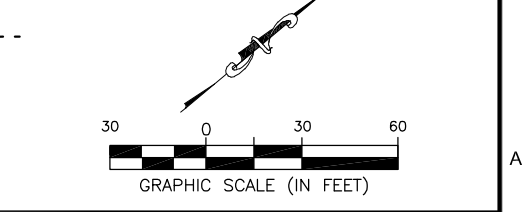


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- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
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  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD02 — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
  - EXISTING RIP-RAP TO BE REMOVED
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - 33" TP — EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - 24" TP — EXISTING TREE TO REMAIN
  - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX — EXISTING FENCE TO BE REMOVED
  - X — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
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GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRT).

EXISTING G.A.N.G. FITNESS TRACK TO BE REMOVED TO THE LIMITS INDICATED AND NEW FITNESS TRACK TO BE CONSTRUCTED WITH TOP ELEVATION 19' MSL. SEE SHEET C4.02 FOR GEOMETRIC CONTROL.

LIMITS OF EXISTING WETLAND TO BE REMOVED (TYP)

LIMITS OF TREE CLEARING AND GRUBBING FOR NEW WET DETENTION POND  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 11.0-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
SIDE SLOPES 3H:1V

NEW WET DETENTION POND EDGE SHOWN IN THE BACKGROUND FOR ADDITIONAL INFORMATION (TYP)

EXISTING 55" SOUTHERN RED OAK TO REMAIN, PROTECTED BY A 4' HIGH TEMPORARY CHAIN LINK FENCE. FOR ADDITIONAL DATA SEE SHEET C5.81 FOR COS TREE PROTECTION DETAIL

NEW STORM SEWER PIPE AND STRUCTURE SHOWN IN THE BACKGROUND FOR CLARITY, SEE C3 SERIES FOR NEW STORM SEWER PLAN AND PROFILES, SEE C4 SERIES FOR GRADING AND DRAINAGE PLANS (TYP.)

NEW STORM CONTROL STRUCTURE SD02A AND 4-30" RCP OUTFALL PIPES TO BE INSTALLED.

EXISTING (2) 42" RCP EXISTING HEADWALL EACH END AND EXISTING RIPRAP TO BE REMOVED. NEW (3) 60" RCP WITH GDOT ENDWALL TO BE INSTALLED

EXISTING 24" RCP TO BE REMOVED

EXISTING IE:10.99'

EXISTING IE:11.21'

EXISTING IE:11.20'

EXISTING IE:10.96'

EXISTING IE:12.94'

EXISTING IE:15.24'

EXISTING IE:13.92'

EXISTING IE:13.64'

CI TOP:17.73' IE(S):13.56' IE(E):13.44'

CI TOP:17.68' IE:12.66'

EXISTING A.O.A. SECURITY FENCE TO BE REMOVED AFTER TEMPORARY SECURITY FENCE IS INSTALLED AND AREA IS SECURED. NEW A.O.A. SECURITY FENCE TO BE INSTALLED AFTER THE POND GRADING IS COMPLETED.

EXISTING ELECTRICAL BOX

EXISTING ELECTRICAL TRANSFORMER

AIRPORT PROPERTY LINE & SR 307, DEAN FOREST ROAD R.O.W.

S.R. 307, DEAN FOREST ROAD R.O.W.

DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

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SCALE:	AS NOTED
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DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

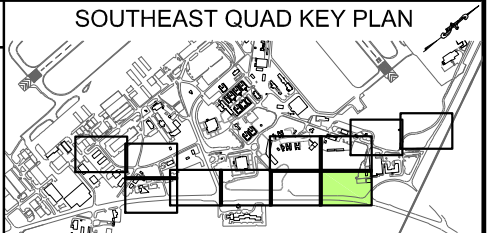
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (6)**

SHEET NO.: **C2.16**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



SEE SHEET C2.19 FOR CONTINUATION



- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
  - SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

**GEORGIA AIR NATIONAL GUARD 165TH AIRLIFT WING (165TH AW), AIR MOBILITY COMMAND (AMC) AND THE COMBAT READINESS TRAINING CENTER (CRTC).**

- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - EXISTING STORM DRAIN PIPE TO BE REMOVED
  - EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
  - EXISTING RIP-RAP TO BE REMOVED
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - EXISTING TREE TO REMAIN
  - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX — EXISTING FENCE TO BE REMOVED
  - X-X — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANC — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)

LIMITS OF TREE CLEARING AND GRUBBING FOR NEW WET DETENTION POND  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 11.0-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 SIDE SLOPES 3H:1V

NEW STORM CONTROL STRUCTURE SD02A AND 4-30" RCP OUTFALL PIPES TO BE INSTALLED.

NEW WET DETENTION POND EDGE SHOWN IN THE BACKGROUND FOR ADDITIONAL INFORMATION (TYP)

LIMITS OF EXISTING WETLAND TO BE REMOVED (TYP)

LIMITS OF TREE CLEARING (TYP)

LIMITS OF EXISTING WETLAND TO BE REMOVED (TYP)

EXISTING IE:15.09'

EXISTING IE:15.04'

EXISTING 18" PVC TO BE REMOVED

EXISTING 18" PVC TO BE REMOVED

EXISTING IE:14.64'

EXISTING IE:14.81'

LIMITS OF EXISTING WETLAND TO REMAIN (TYP)

EXISTING IE:13.46'

EXISTING A.O.A. SECURITY FENCE TO BE REMOVED AFTER TEMPORARY SECURITY FENCE IS INSTALLED AND AREA IS SECURED. NEW A.O.A. SECURITY FENCE TO BE INSTALLED AFTER THE POND GRADING IS COMPLETED.

EXISTING FENCE TO REMAIN (TYP)

EXISTING IE:14.89'

AIRPORT PROPERTY LINE & SR 307, DEAN FOREST ROAD R.O.W.

DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

CI TOP:17.75'  
 IE(SW):12.37'  
 IE(NE):12.51'

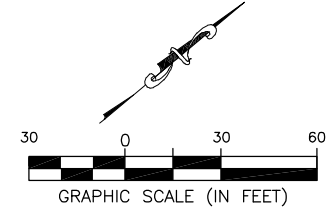
CI TOP:17.49'  
 IE(SW):12.16'  
 IE(NE):12.21'  
 IE(E):12.06'  
 IE(W):12.18'

CI TOP:17.07'  
 IE(SW):12.39'  
 IE(NE):12.40'

CI TOP:17.06'  
 IE(SW):12.63'  
 IE(NE):12.43'

CI TOP:17.17'  
 IE(SW):12.54'  
 IE(NE):12.69'

CI TOP:16.86'  
 IE(W):12.85'



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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

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 Savannah, Georgia | (912) 200-3041

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 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
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SCALE:	AS NOTED
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DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

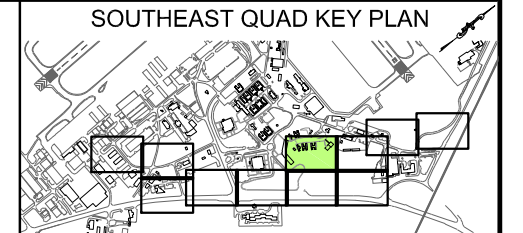
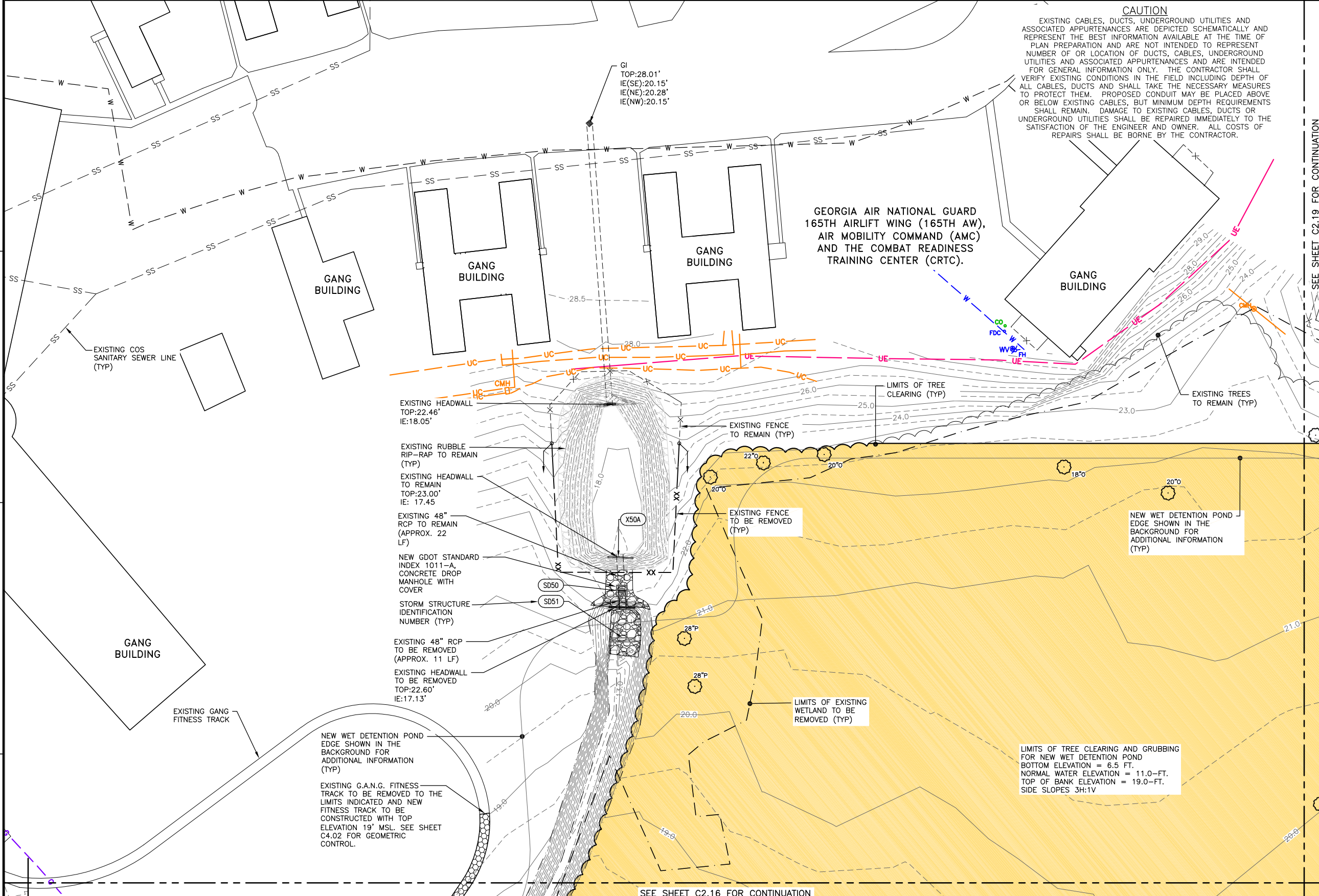
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (7)**

SHEET NO.: **C2.17**

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-17 PLOTTED: Friday, February 26, 2021 - 8:26am USER: Norma.Presley

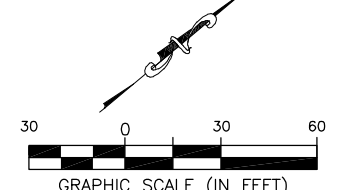


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\C2-11-C2-21 DEMO.dwg LAYOUT NAME: C2-18 PLOTTED: Friday, February 26, 2021 - 8:26am USER: Norma.Presley



- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
  - SEE SHEET G2.01 FOR OVERALL PHASING PLAN AND NOTES.
  - SEE SHEETS G2.02 THRU G2.03 FOR PHASING PLANS.
  - SEE SHEET G4.01 & G4.02 FOR HORIZONTAL AND VERTICAL CONTROL PLANS AND DATA TABLES.
  - SEE SHEET C2.01 FOR EXISTING CONDITIONS AND DEMOLITION NOTES.
  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 - EXISTING MAJOR CONTOUR
  - 17.5 - EXISTING MAJOR CONTOUR
  - Existing Storm Drain Structure to be Removed
  - 24" RCP - EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP - EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - Proposed Storm Drain Structure, Pipe and Structure Identification
  - Existing G.A.N.G. Fitness Track to be Modified
  - Existing RIP-RAP to be Removed
  - Open Cut Roadway Pavement Replacement for New Storm Drain System
  - 33" T - EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - 24" T - EXISTING TREE TO REMAIN
  - Existing Trees to be Removed (HEAVY CLEARING & GRUBBING)
  - XX - EXISTING FENCE TO BE REMOVED
  - X-X - EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE - EXISTING UNDERGROUND ELECTRIC
  - OE - EXISTING OVERHEAD ELECTRIC
  - G - EXISTING GAS LINE
  - UNK - EXISTING UNKNOWN UG UTILITY
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  - ANC - EXISTING G.A.N.G. COMM LINE
  - SS - EXISTING SANITARY SEWER
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**GEORGIA AIR NATIONAL GUARD**

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

**EXISTING CONDITIONS & DEMOLITION PLAN (8)**

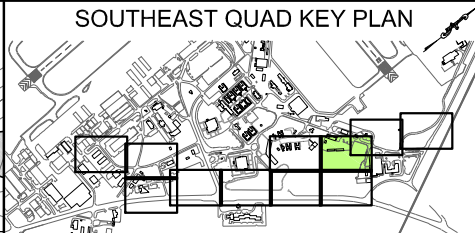
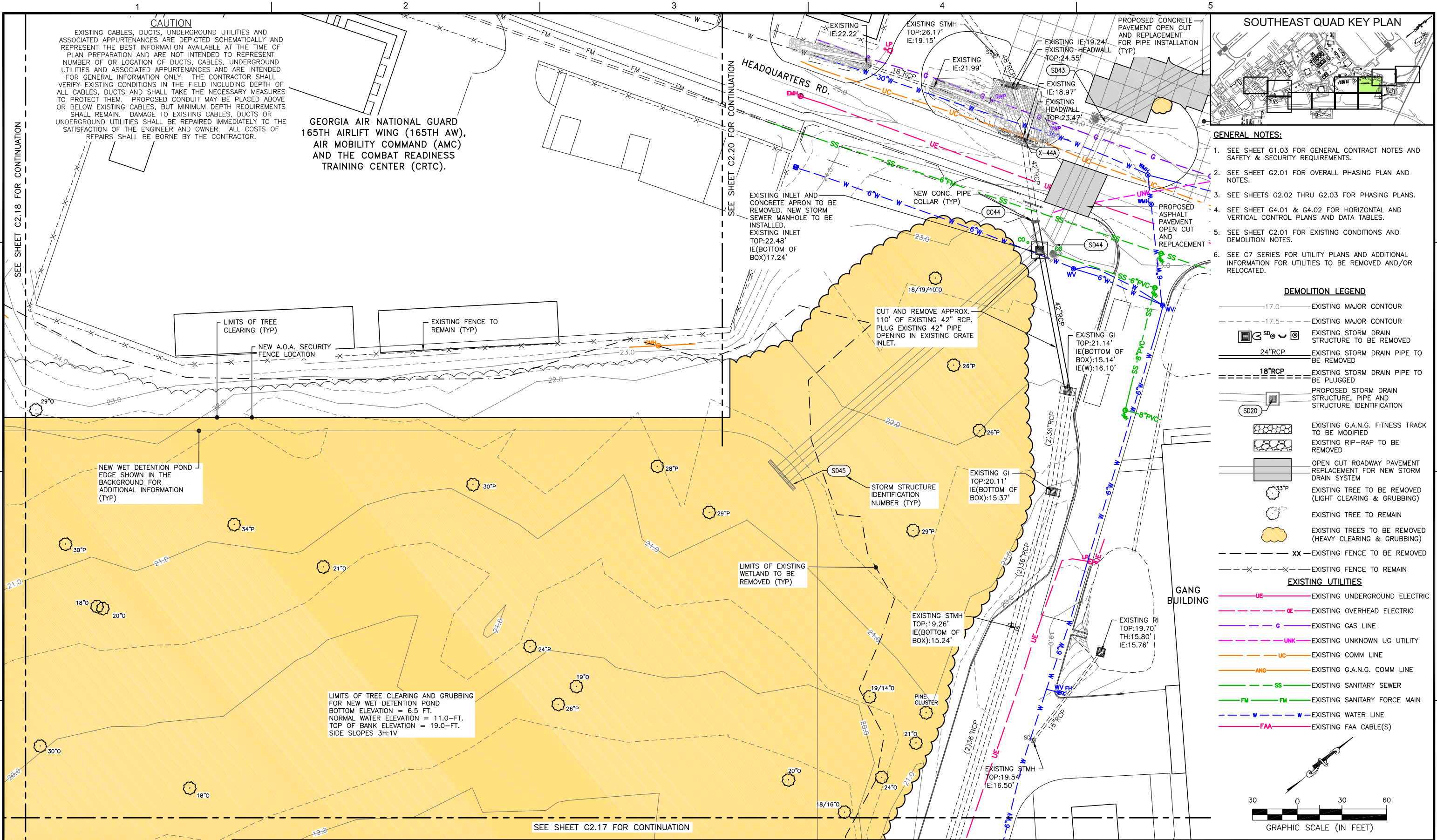
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (8)**

SHEET NO.: **C2.18**

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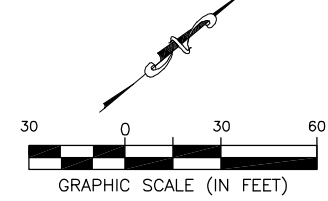


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C2-11-C2-21 DEMO.dwg LAYOUT NAME: C2-19 PLOTTED: Friday, February 26, 2021 - 8:26am USER: Norma.Presley



- GENERAL NOTES:**
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY & SECURITY REQUIREMENTS.
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  - SEE C7 SERIES FOR UTILITY PLANS AND ADDITIONAL INFORMATION FOR UTILITIES TO BE REMOVED AND/OR RELOCATED.

- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD 00 — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 24"RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18"RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD 20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
  - EXISTING RIP-RAP TO BE REMOVED
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - 33" P — EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - 24" P — EXISTING TREE TO REMAIN
  - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX — EXISTING FENCE TO BE REMOVED
  - X — EXISTING FENCE TO REMAIN
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GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

EXISTING INLET AND CONCRETE APRON TO BE REMOVED. NEW STORM SEWER MANHOLE TO BE INSTALLED.  
EXISTING INLET TOP:22.48' IE(BOTTOM OF BOX):17.24'

CUT AND REMOVE APPROX. 110' OF EXISTING 42" RCP. PLUG EXISTING 42" PIPE OPENING IN EXISTING GRATE INLET.

NEW WET DETENTION POND - EDGE SHOWN IN THE BACKGROUND FOR ADDITIONAL INFORMATION (TYP)

LIMITS OF TREE CLEARING AND GRUBBING FOR NEW WET DETENTION POND  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 11.0-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
SIDE SLOPES 3H:1V

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (9)**

SHEET NO.: **C2.19**



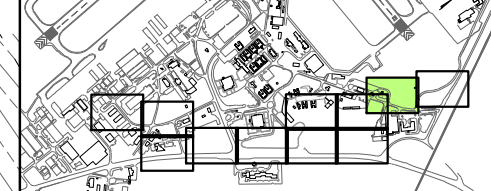
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-20 PLOTTED: Friday, February 26, 2021 - 8:27am USER: Norma.Presley

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165TH AIRLIFT WING (165TH AW),  
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**SOUTHEAST QUAD KEY PLAN**



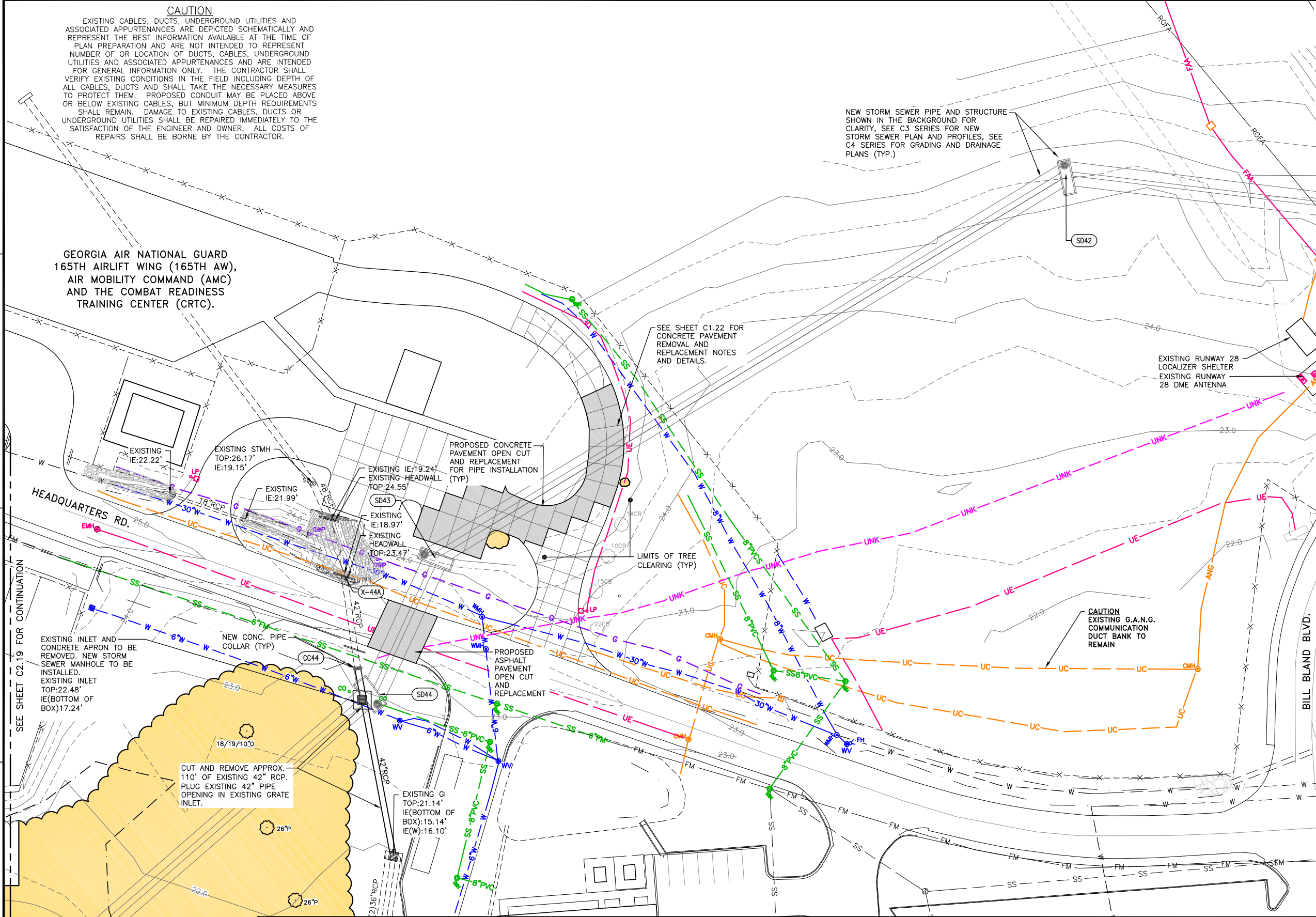
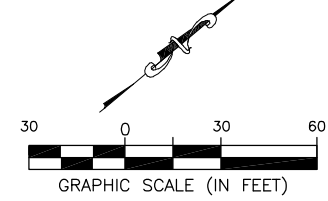
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**DEMOLITION LEGEND**

- 17.0 — EXISTING MAJOR CONTOUR
- - - 17.5 - - - EXISTING MAJOR CONTOUR
- EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
- 24"RCP EXISTING STORM DRAIN PIPE TO BE REMOVED
- 18"RCP EXISTING STORM DRAIN PIPE TO BE PLUGGED
- PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
- EXISTING RIP-RAP TO BE REMOVED
- OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- 33"TP EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
- 24"TP EXISTING TREE TO REMAIN
- EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
- - - XX - - - EXISTING FENCE TO BE REMOVED
- x - x - EXISTING FENCE TO REMAIN

**EXISTING UTILITIES**

- UE EXISTING UNDERGROUND ELECTRIC
- OE EXISTING OVERHEAD ELECTRIC
- G EXISTING GAS LINE
- UNK EXISTING UNKNOWN UG UTILITY
- UC EXISTING COMM LINE
- ANG EXISTING G.A.N.G. COMM LINE
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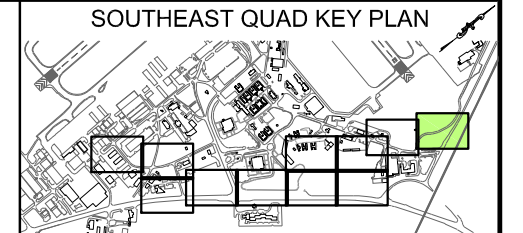
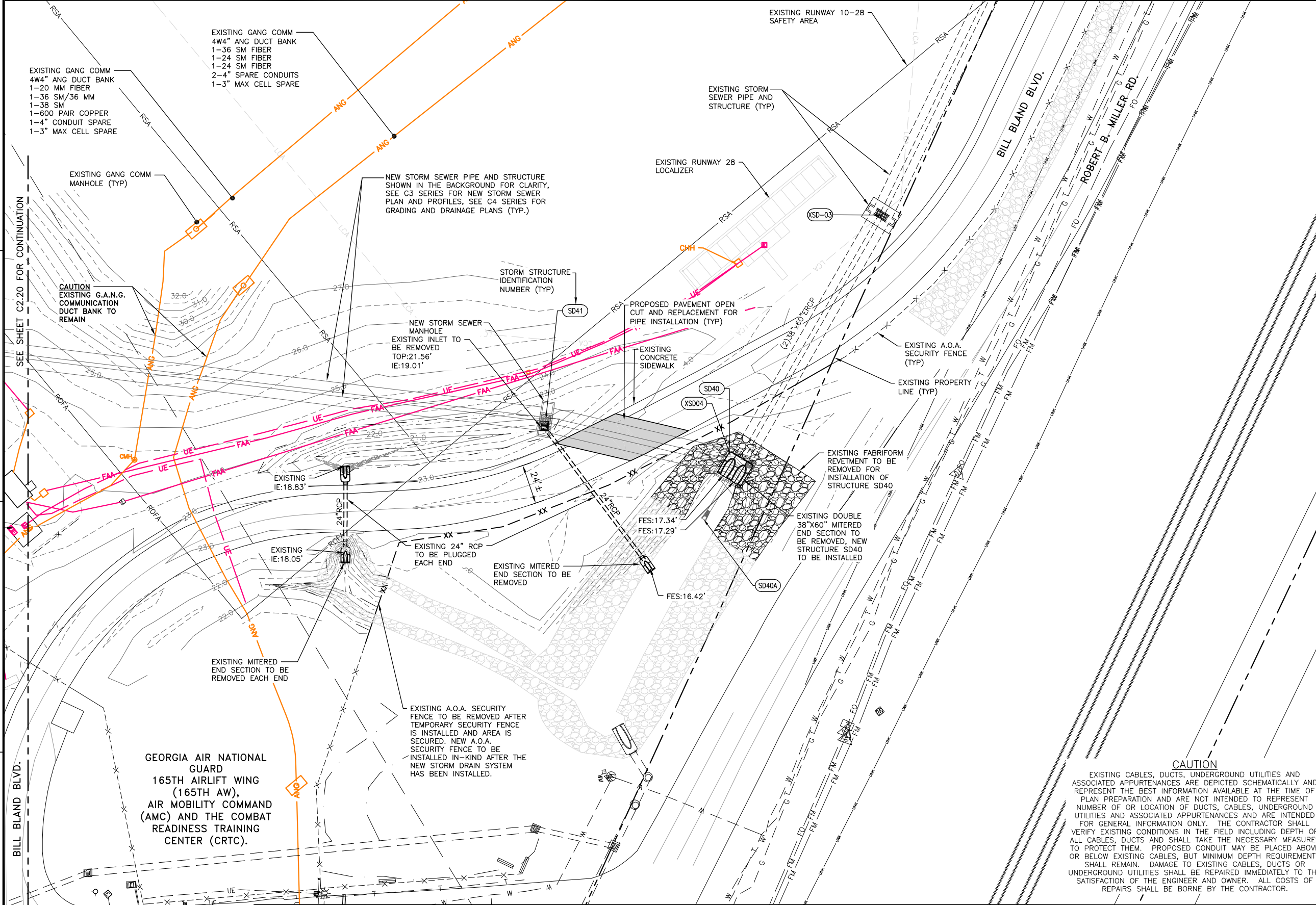
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (10)**

SHEET NO.: **C2.20**



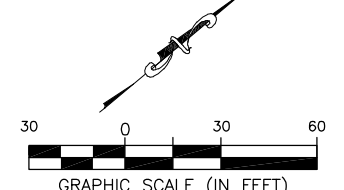
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C2-11-C2-21\_DEMO.dwg LAYOUT NAME: C2-21 PLOTTED: Friday, February 26, 2021 - 8:27am USER: Norma.Presley



- GENERAL NOTES:**
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- DEMOLITION LEGEND**
- 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - EXISTING STORM DRAIN PIPE TO BE REMOVED
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  - EXISTING G.A.N.G. FITNESS TRACK TO BE MODIFIED
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  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - EXISTING TREE TO BE REMOVED (LIGHT CLEARING & GRUBBING)
  - EXISTING TREE TO REMAIN
  - EXISTING TREES TO BE REMOVED (HEAVY CLEARING & GRUBBING)
  - XX — EXISTING FENCE TO BE REMOVED
  - X — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANG — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



**CALL BEFORE YOU DIG — UTILITIES PROTECTION CENTER**  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

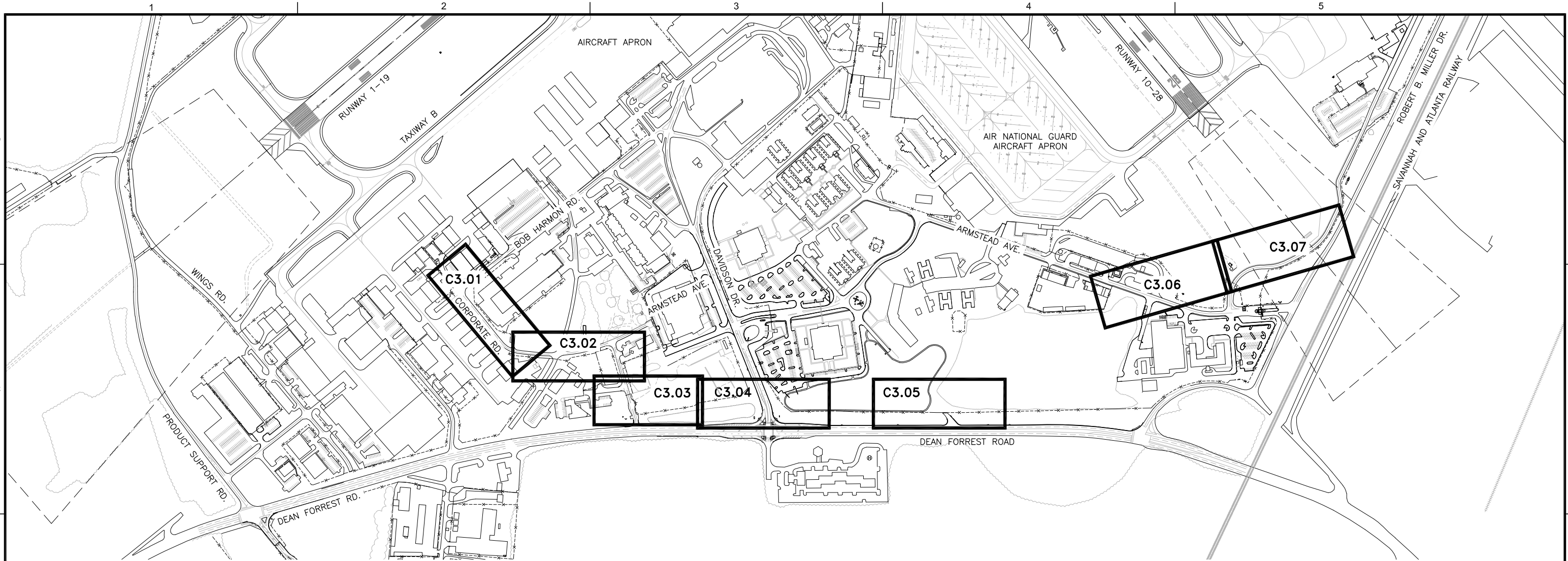
SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION PLAN (11)**

SHEET NO.: **C2.21**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

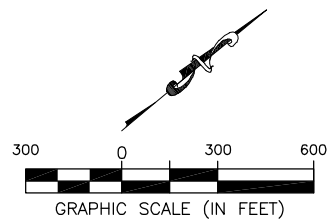


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910\_CAD\20-SHEETS\C3-00 KEY PLAN PROF.dwg LAYOUT NAME: C3-00 PLOTTED: Friday, February 26, 2021 - 8:27am USER: Norma.Presley



**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.



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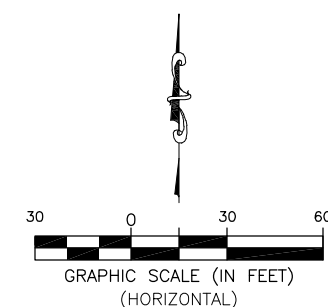
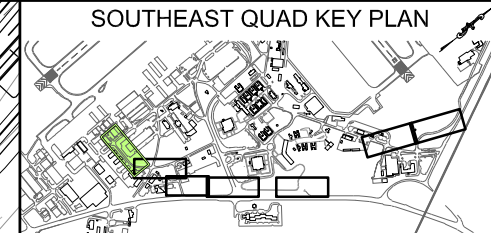
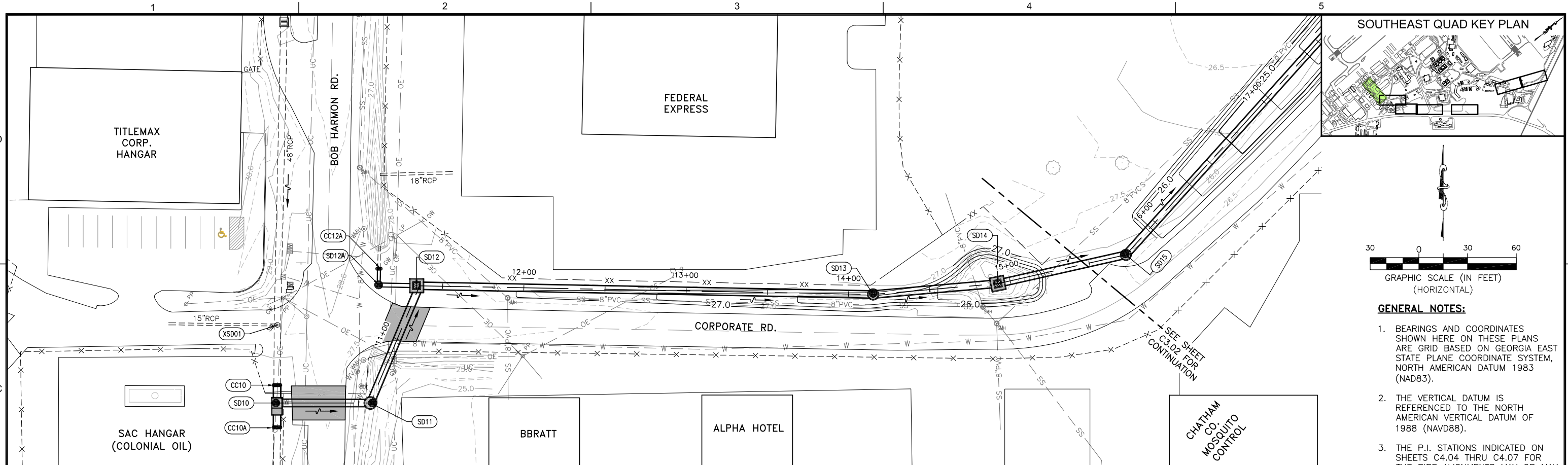
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>NEW STORM SEWER PLAN &amp; PROFILE KEY PLAN</b>	<b>C3.00</b>

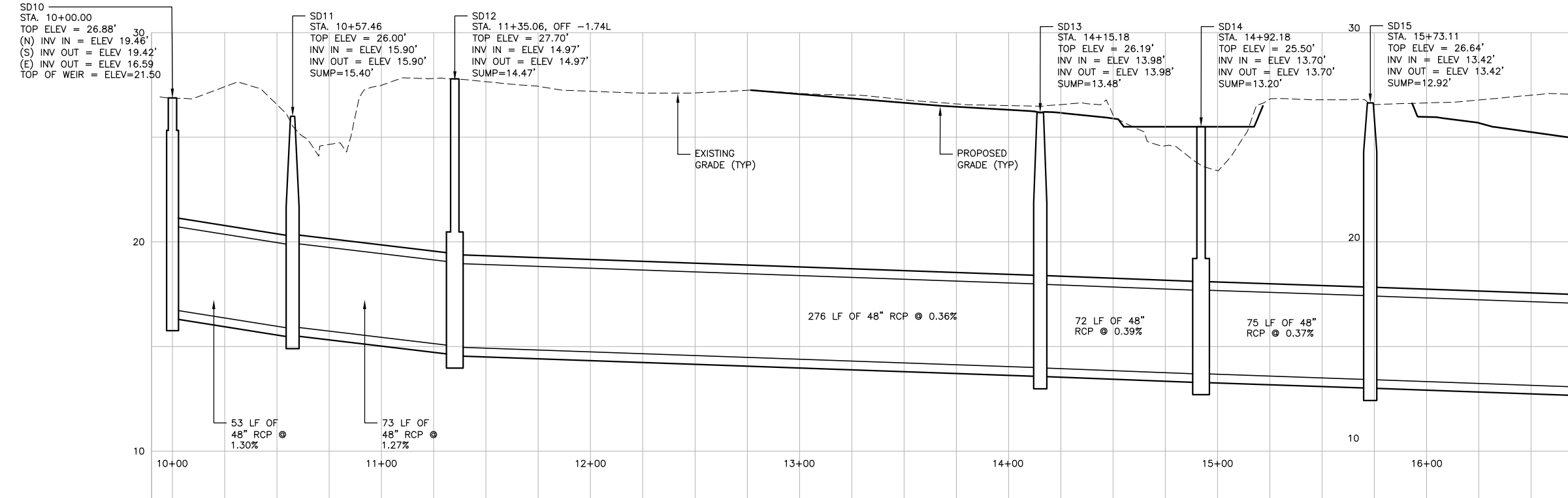


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-01 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
  4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
  5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN – BOB HARMON ROAD TO BILLY B. HAIR DR.**  
SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE – BOB HARMON ROAD TO BILLY B. HAIR DR.**  
SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG – UTILITIES PROTECTION CENTER**  
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DSG. BY:	RWP
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

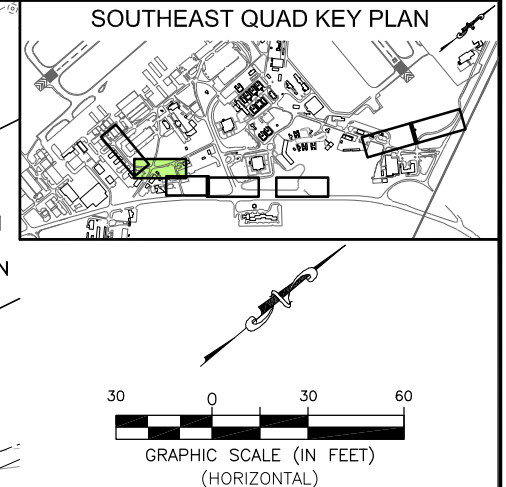
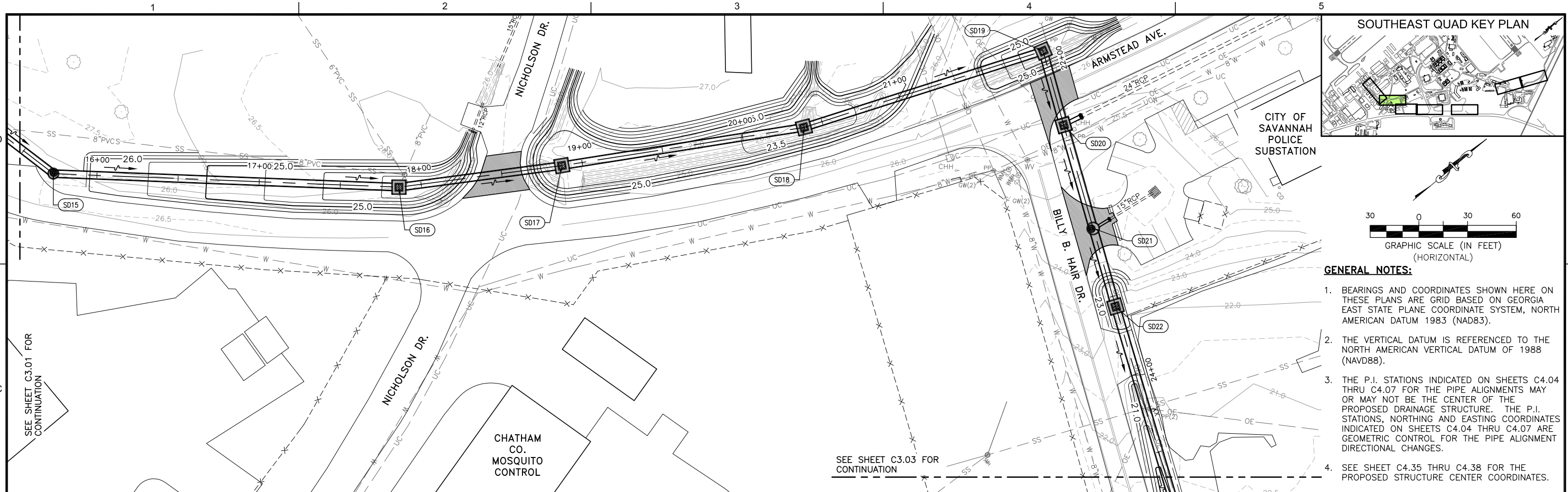
SHEET TITLE: **NEW STORM SEWER PLAN & PROFILE (1) SD10 TO SD15**

SHEET NO.: **C3.01**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

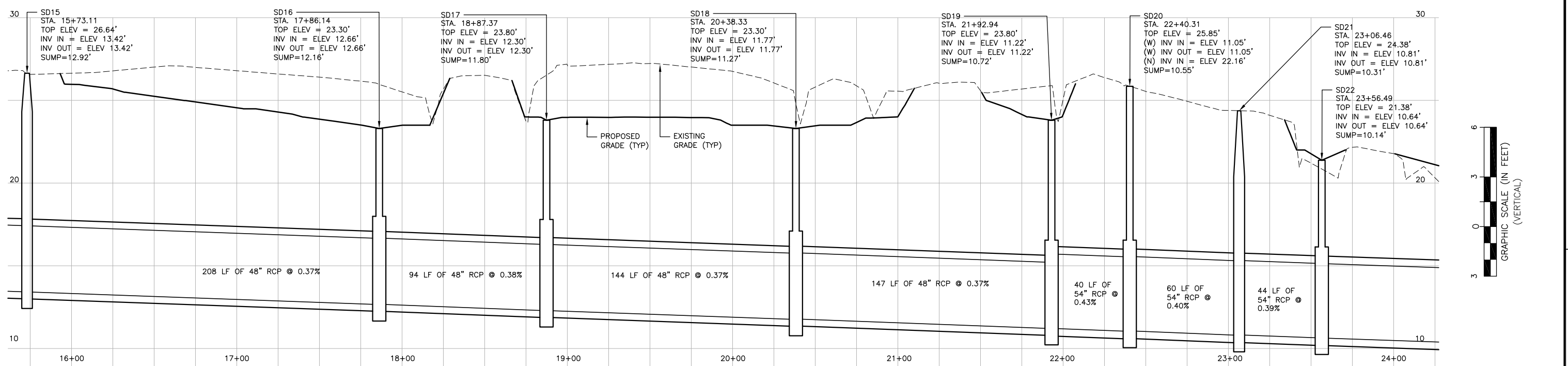


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\900-Work\910\_CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-02 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
  - SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN - BILLY B. HAIR DR. TO DEAN FORREST RD.**  
SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE - BILLY B. HAIR DR. TO DEAN FORREST RD.**  
SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

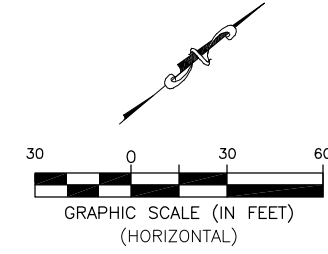
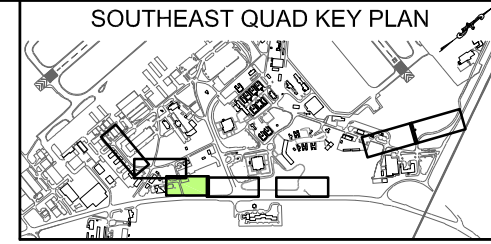
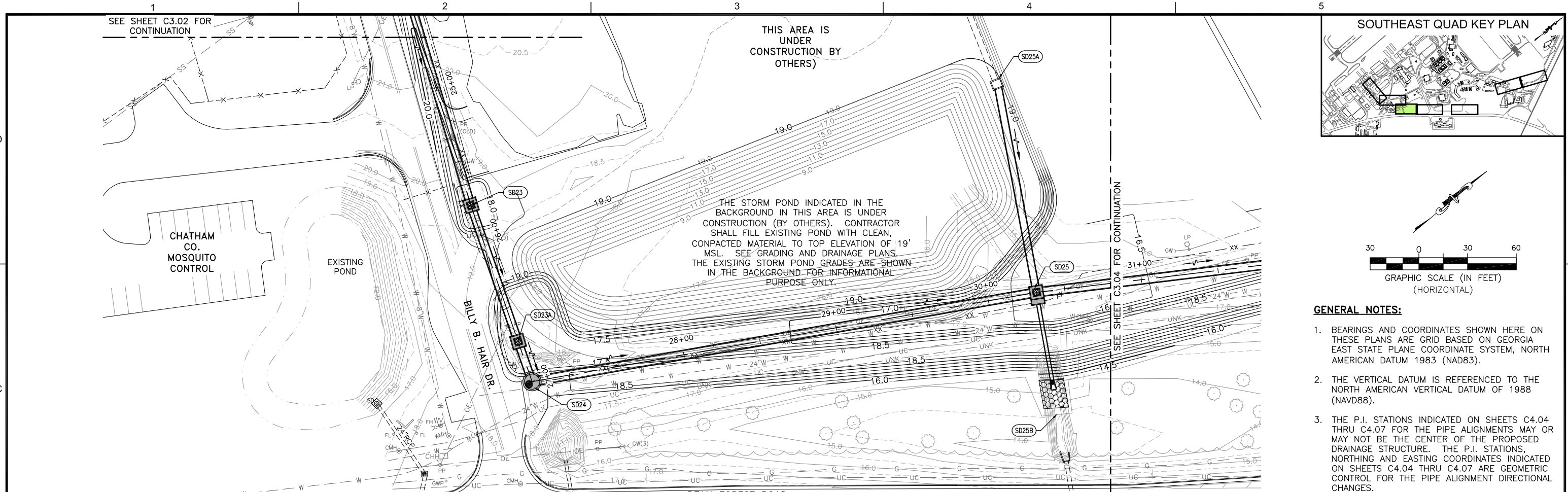
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **NEW STORM SEWER PLAN & PROFILE (2) SD15 TO SD22**

SHEET NO.: **C3.02**

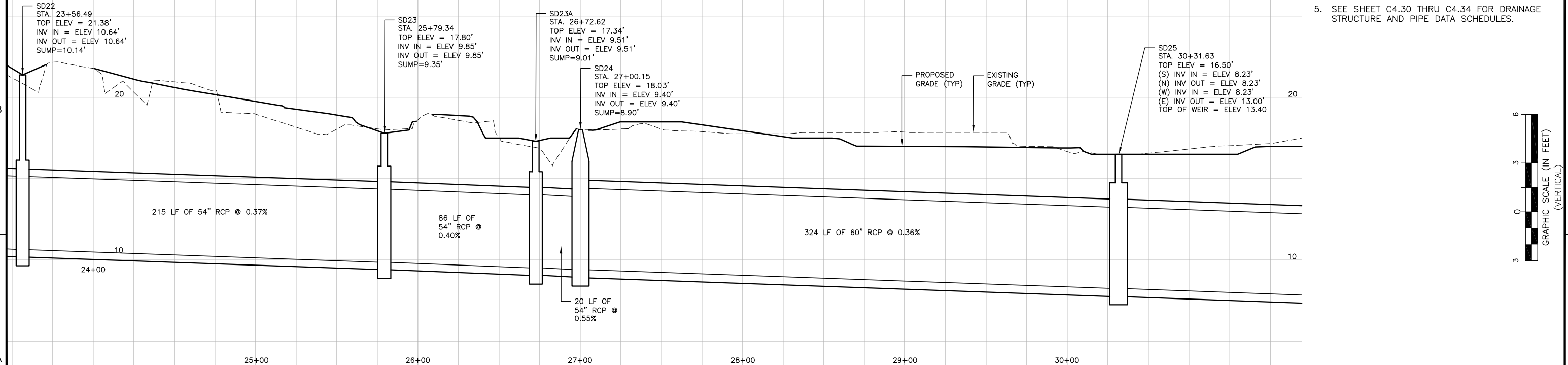


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\60611019\_SEQuadDmg\900-Work\910\_CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-03 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
  4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
  5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN - BILLY B. HAIR / DEAN FORREST RD. TO EXISTING WET DETENTION POND AT G.A.N.G. FACILITY**  
SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE - BILLY B. HAIR / DEAN FORREST RD. TO EXISTING WET DETENTION POND AT G.A.N.G. FACILITY**  
SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

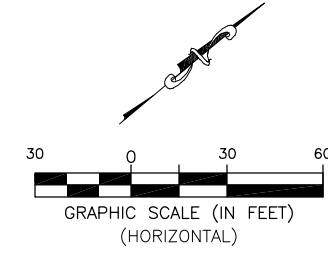
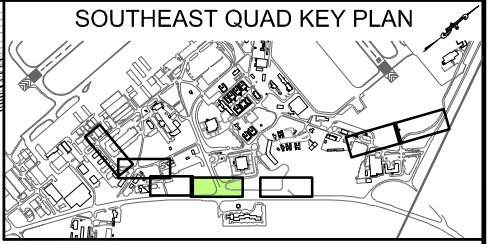
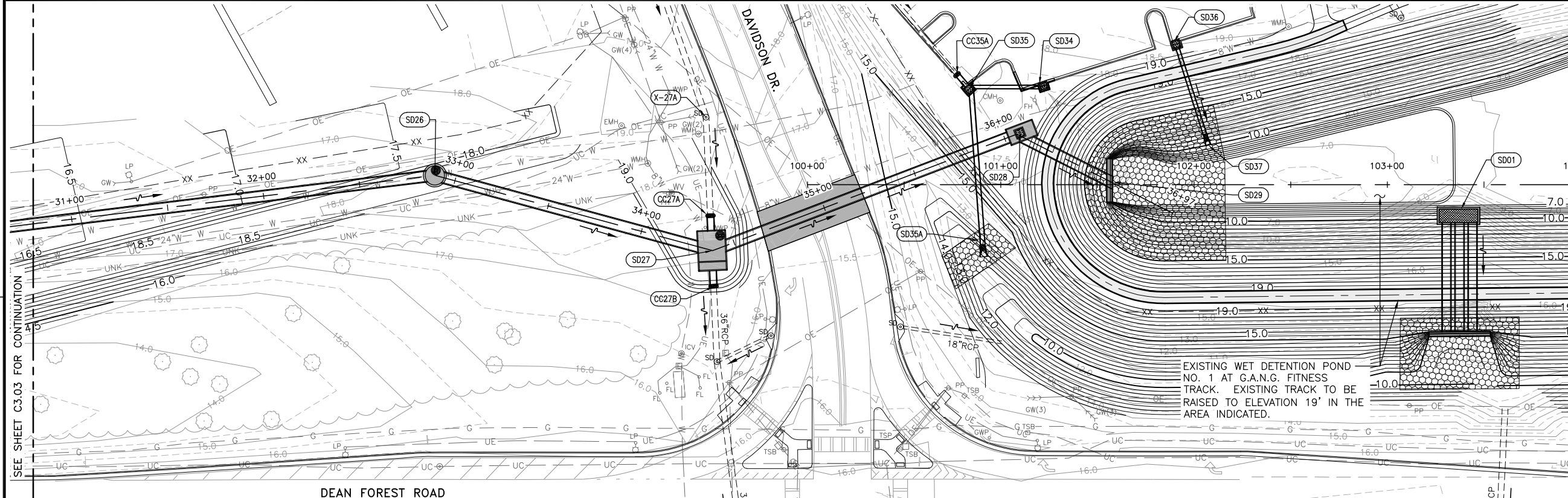
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **NEW STORM SEWER PLAN & PROFILE (3) SD22 TO SD25**

SHEET NO.: **C3.03**



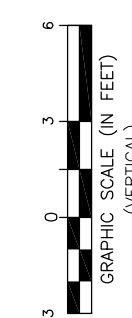
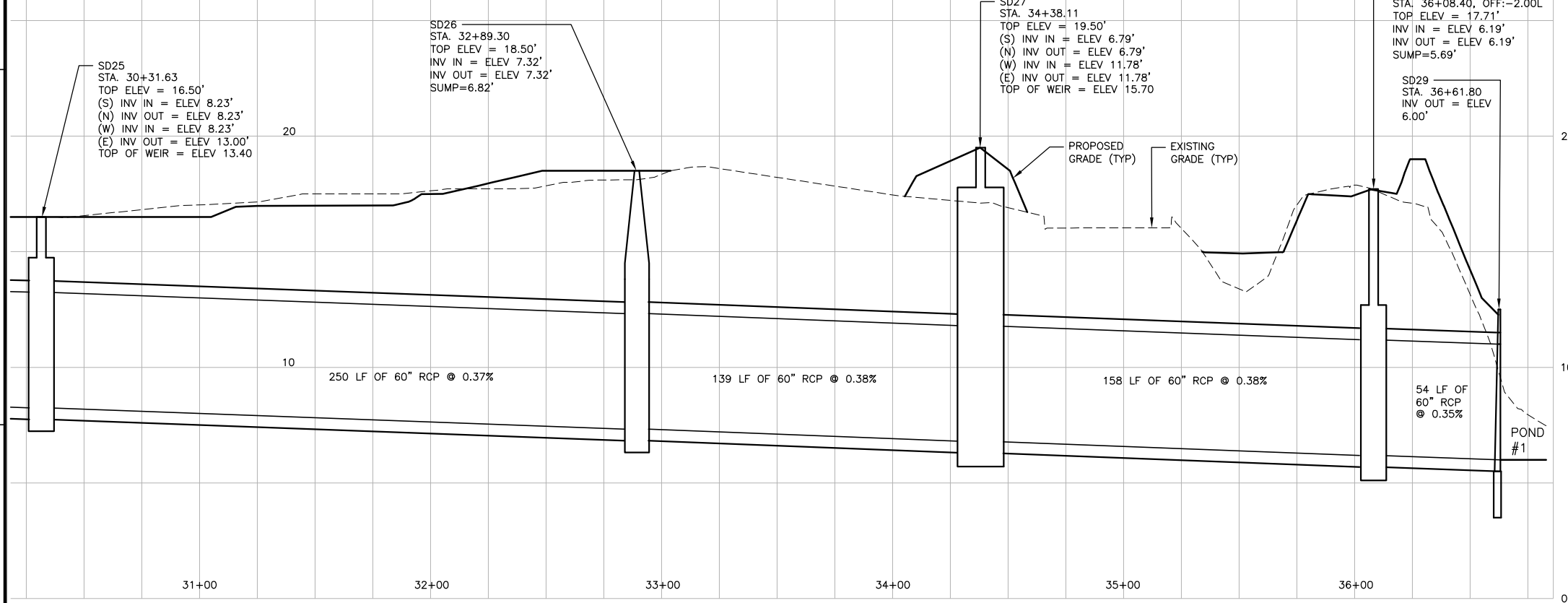
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C3-04-PIPE-PLR.dwg LAYOUT NAME: C3-04 PIPE-PLR.dwg PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN – BILLY B. HAIR / DEAN FORREST RD. TO EXISTING WET DETENTION POND AT G.A.N.G. FACILITY**

SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE – BILLY B. HAIR / DEAN FORREST RD. TO EXISTING WET DETENTION POND AT G.A.N.G. FACILITY**

SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG – UTILITIES PROTECTION CENTER**  
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DATE	DESCRIPTION	BY	AUTH
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PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
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DATE:	MARCH, 2021

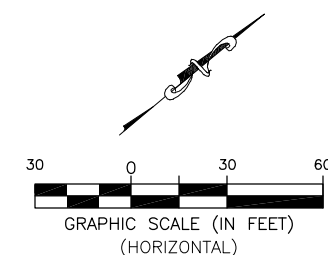
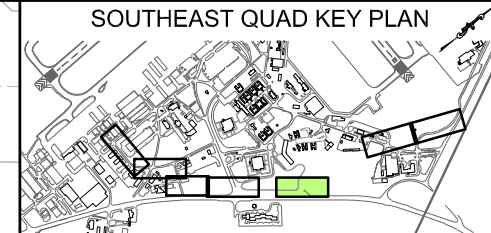
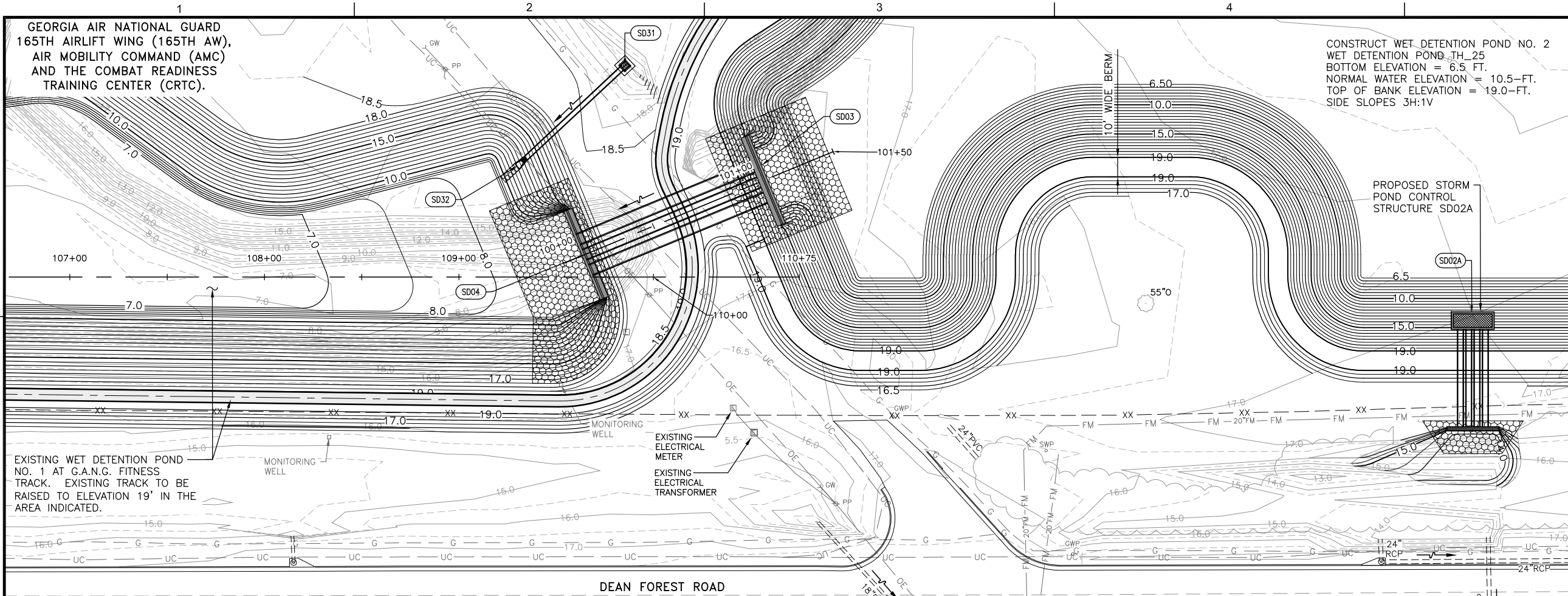
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **NEW STORM SEWER PLAN & PROFILE (4) SD25 TO SD29**

SHEET NO.: **C3.04**

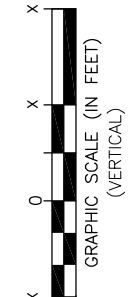
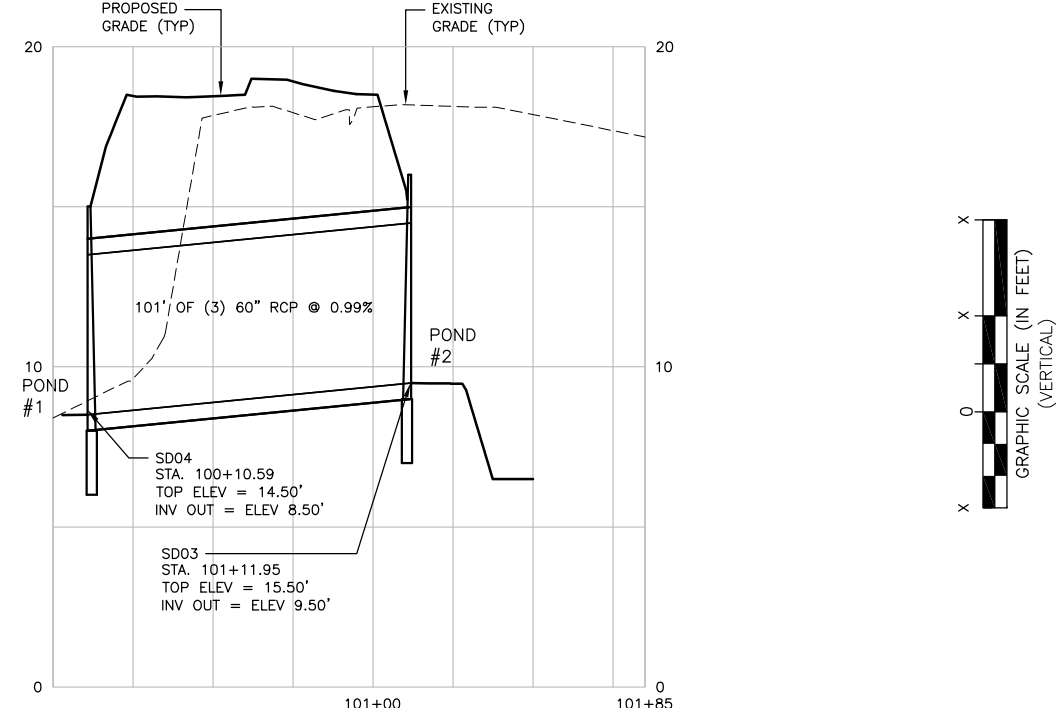


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\900-Work\910 CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-05 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
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  4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
  5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN - DAVIDSON DR. - EXISTING G.A.N.G WET DETENTION POND TO NEW WET DETENTION POND**  
SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE - DAVIDSON DR. - EXISTING G.A.N.G WET DETENTION POND #1 TO NEW WET DETENTION POND #2**  
SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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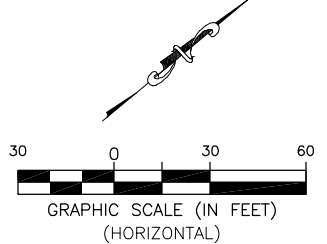
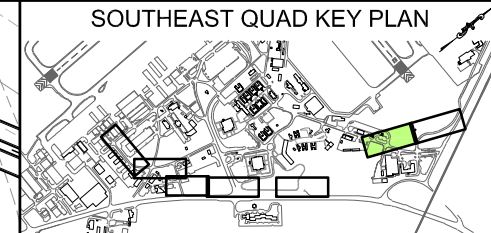
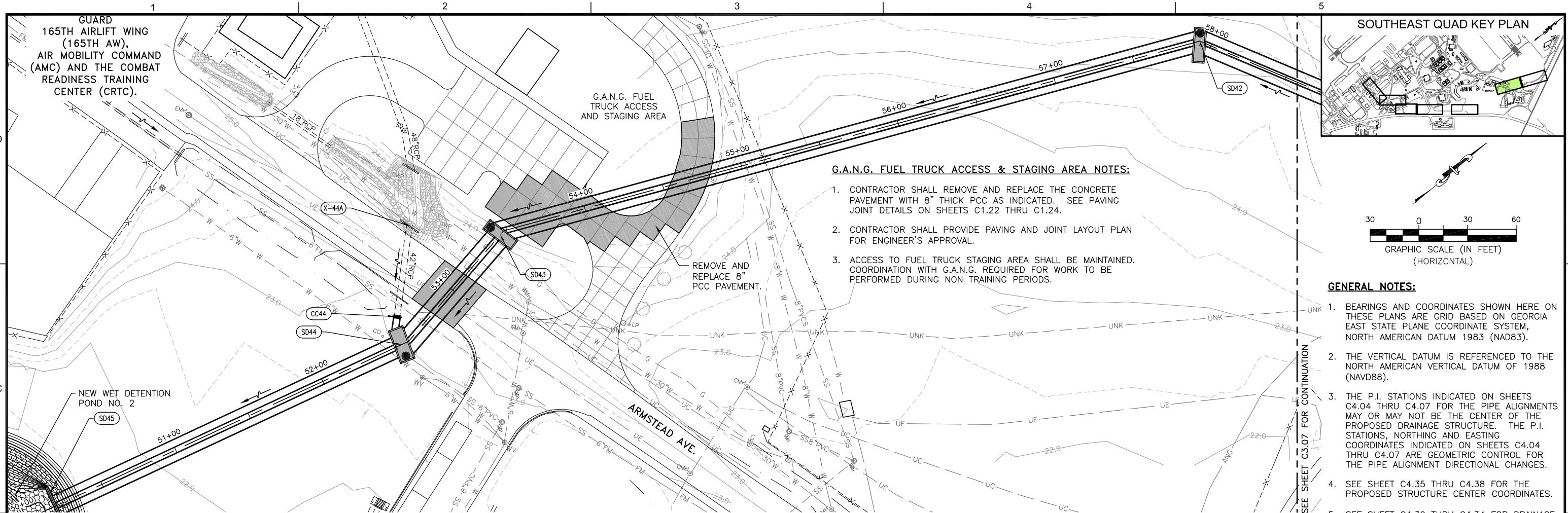
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>NEW STORM SEWER PLAN &amp; PROFILE (5) SD03 TO SD04</b>	SHEET NO. <b>C3.05</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-06 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



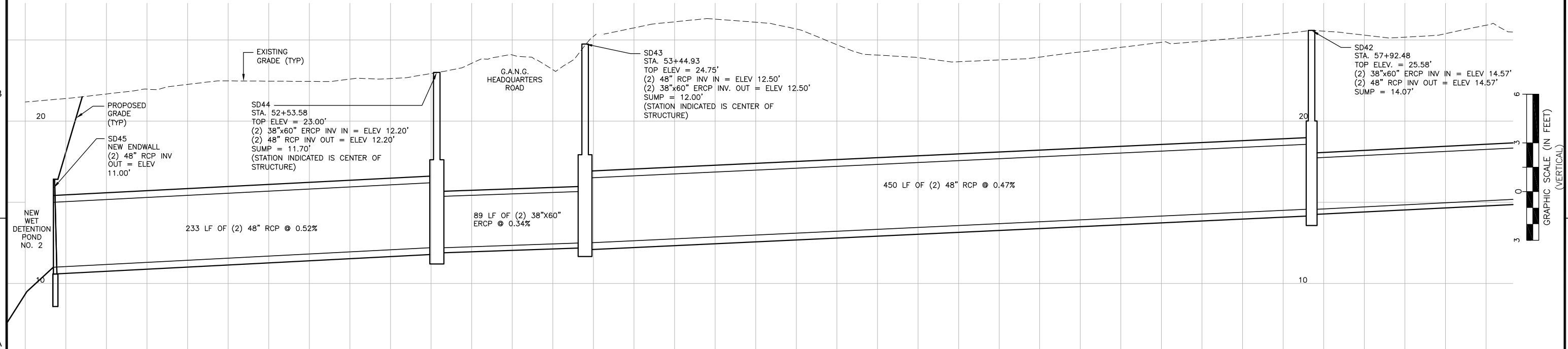
**G.A.N.G. FUEL TRUCK ACCESS & STAGING AREA NOTES:**

1. CONTRACTOR SHALL REMOVE AND REPLACE THE CONCRETE PAVEMENT WITH 8" THICK PCC AS INDICATED. SEE PAVING JOINT DETAILS ON SHEETS C1.22 THRU C1.24.
2. CONTRACTOR SHALL PROVIDE PAVING AND JOINT LAYOUT PLAN FOR ENGINEER'S APPROVAL.
3. ACCESS TO FUEL TRUCK STAGING AREA SHALL BE MAINTAINED. COORDINATION WITH G.A.N.G. REQUIRED FOR WORK TO BE PERFORMED DURING NON TRAINING PERIODS.

**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN – G.A.N.G FACILITY TO NEW WET DETENTION POND** SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE – G.A.N.G FACILITY TO NEW WET DETENTION POND** SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG – UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

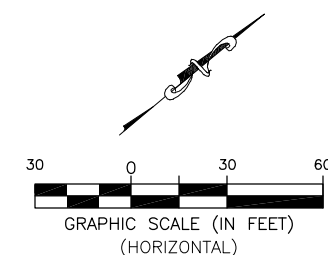
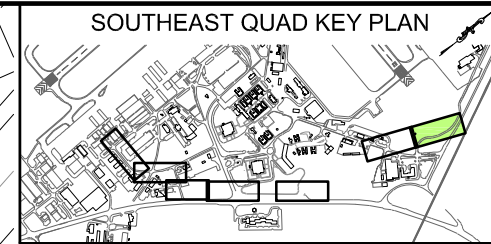
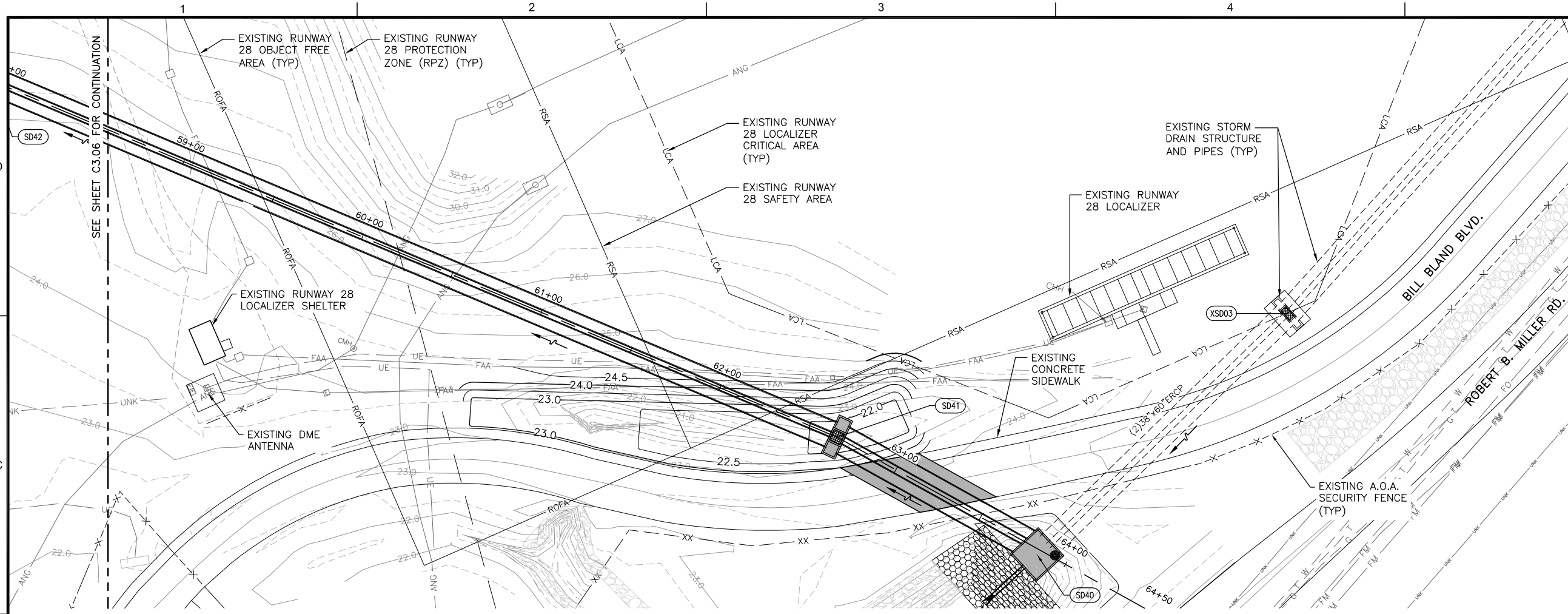
SHEET TITLE: **NEW STORM SEWER PLAN & PROFILE (6) SD45 TO SD42**

SHEET NO.: **C3.06**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

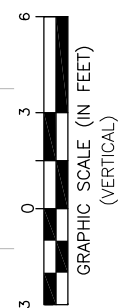
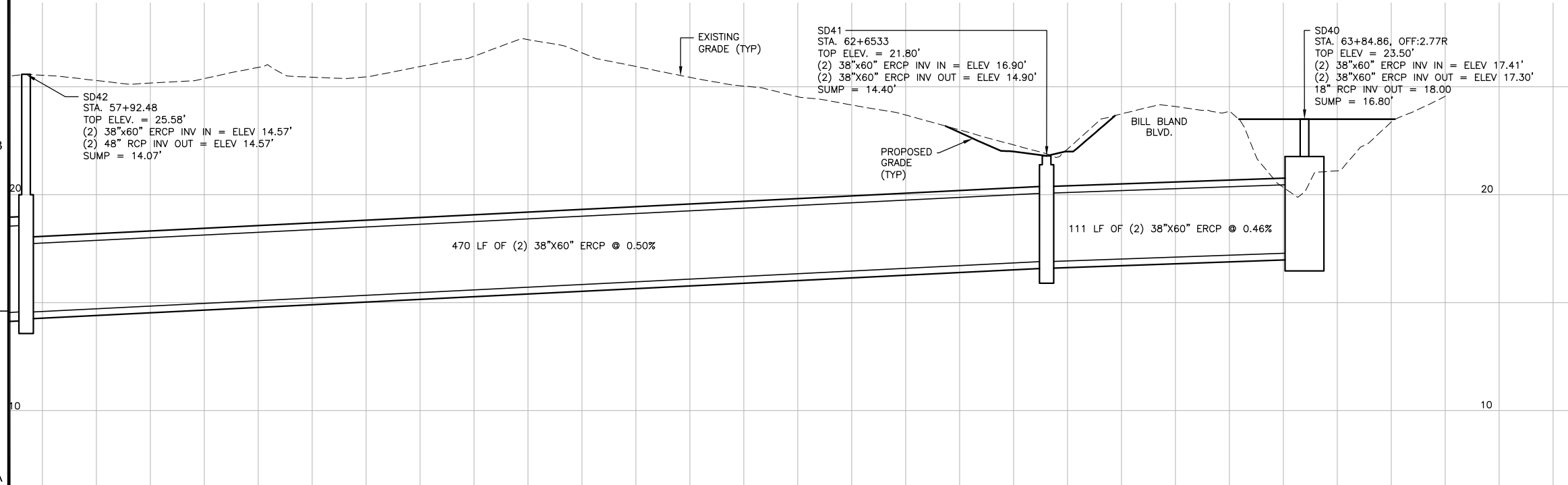


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C3-01-C3-07-PIPE-PLR.dwg LAYOUT NAME: C3-07 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Pressley



- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
  4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
  5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

**NEW STORM SEWER PIPE PLAN – G.A.N.G FACILITY TO NEW WET DETENTION POND** SCALE: 1" = 30'



**NEW STORM SEWER PIPE PROFILE – G.A.N.G FACILITY TO NEW WET DETENTION POND** SCALE: 1" = 30'H, 1" = 3'V

**CALL BEFORE YOU DIG – UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

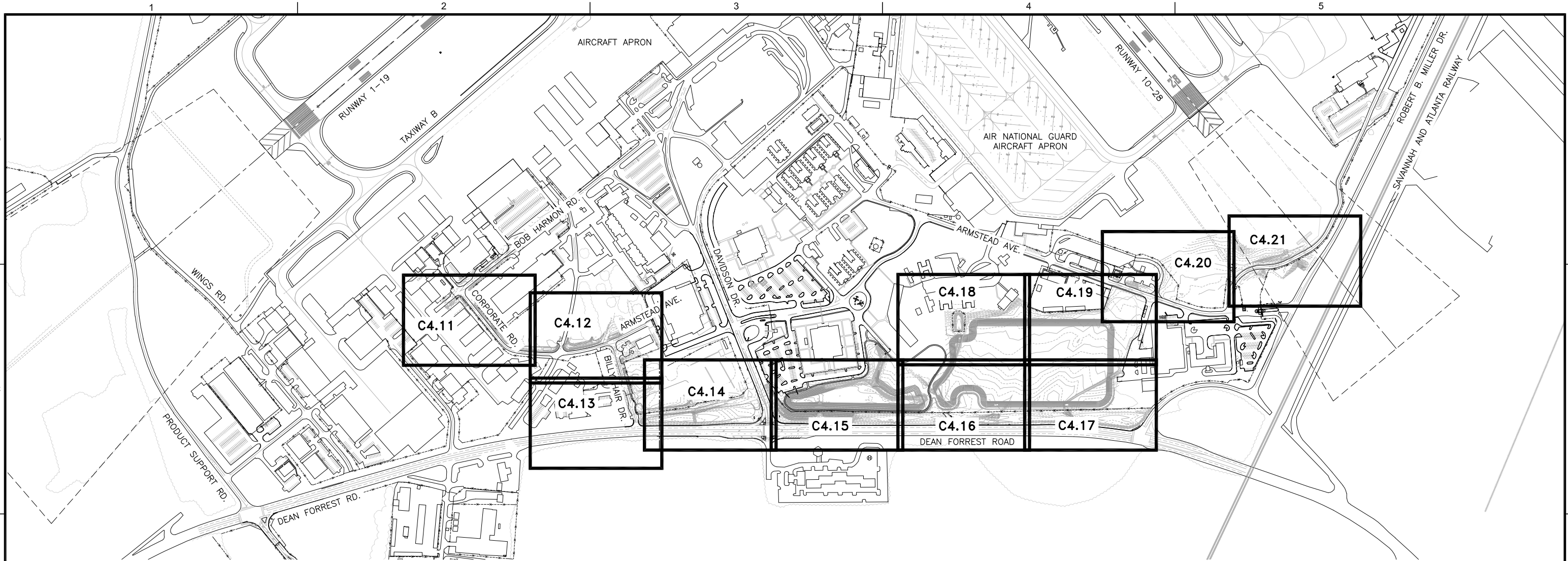


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>NEW STORM SEWER PLAN &amp; PROFILE (7) SD42 TO SD40</b>	SHEET NO. <b>C3.07</b>

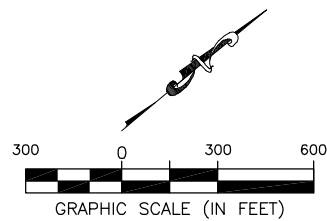


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C4-00 KEY PLAN GRADE.dwg LAYOUT NAME: C4-00 PLOTTED: Friday, February 26, 2021 - 8:28am USER: Norma.Presley



**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>GRADING AND DRAINAGE KEY PLAN</b>	<b>C4.00</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SequadDmg\Design\900-Work\910 CAD\20-SHEETS\C4-01 GRADE NTS.dwg LAYOUT NAME: C4-01 PLOTTED: Friday, February 26, 2021 - 8:29am USER: Norma.Pressley

**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
11. SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
12. SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
13. SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
14. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
15. SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
16. SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
17. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
18. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
19. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
20. SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
21. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.

**GRADING AND DRAINAGE GENERAL NOTES:**

1. THE CONTRACTOR SHALL FOLLOW ALL SPECIFICATIONS AND GUIDELINES AS ESTABLISHED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD INDEX AND SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION OF ALL NEW STORM DRAINAGE SYSTEMS.
2. ALL STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH GDOT STANDARD INDEX NO. 1401.
3. ALL NEW GDOT INLETS WILL BE CONSTRUCTED IN ACCORDANCE WITH GDOT STANDARD INDEX 1019A AND 1019B.
4. ALL NEW GDOT HEADWALLS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE GDOT STANDARD INDEX NO. 1001-B.
5. ALL RIPRAP OUTLET PROTECTION SHALL BE CONSTRUCTED AS INDICATED IN THE GRADING AND DRAINAGE PLANS USING FABRIFORM REVETMENT AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC), 2016 EDITION OR LATER.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE ACCORDING TO THE LATEST MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC).
7. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL FIRST COORDINATE WITH ALL UTILITY COMPANIES AND THE AIRPORT STAFF TO LOCATE ALL EXISTING FAA, UNDERGROUND ELECTRICAL, OVERHEAD ELECTRICAL, NATURAL GAS, SANITARY SEWER, CATV, FIBER OPTICS AND COMMUNICATIONS, WATER AND OTHER UTILITIES.
8. TEMPORARY SEDIMENTATION BARRIERS WITH APPROPRIATE ANCHORAGE SHALL BE PLACED AROUND EXISTING DRAINAGE INLETS, AROUND ENTRANCES TO ALL STORM DRAINS. STAKED SILT FENCE SHALL BE INSTALLED AT LIMITS INDICATED ON THE EROSION CONTROL DRAWINGS OR AS DIRECTED BY THE ENGINEER.
9. THE STOCKPILE LOCATIONS OF UNSUITABLE MATERIAL AND EXCESS SUITABLE MATERIAL ARE SHOWN IN THESE PLANS. DETAILED INFORMATION WILL BE PROVIDED TO THE CONTRACTOR REGARDING THE EXACT LOCATION OF PLACEMENT, SLOPE, MAXIMUM HEIGHT, ETC. THE EXCESS SUITABLE MATERIAL WILL NOT REQUIRE COMPACTION OTHER THAN THAT EXERTED BY EARTHMOVING EQUIPMENT.
10. THE CONTRACTOR SHALL KEEP UNSUITABLE MATERIAL SEPARATE FROM SUITABLE MATERIAL WHEN PLACING IN THE RESPECTIVE DISPOSAL AREAS. SUFFICIENT SUITABLE MATERIAL SHALL BE USED TO FILL THE POND INDICATED ON SHEET C4.14 ONCE POSITIVE CONVEYANCE HAS BEEN ESTABLISHED AND AS APPROVED BY THE ENGINEER.
11. ALL TEMPORARY EXCAVATIONS SHOULD FOLLOW OSHA REQUIREMENTS REGARDING SAFE SLOPES.
12. THE CONTRACTOR SHALL NOT ENTER INTO NON-AIRPORT PROPERTY AT ANY TIME DURING THE CONSTRUCTION OF THIS PROJECT WITHOUT PRIOR APPROVAL FROM PROPERTY OWNER AND SAC.
13. SEE EXISTING UTILITIES AND RELOCATION PLANS FOR ALL RELOCATIONS AND/OR MODIFICATIONS TO EXISTING UTILITIES IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW STORM DRAIN SYSTEM.
14. A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITY IN THE CITY OF SAVANNAH R.O.W.
15. CONTRACTOR IS REQUIRED TO FOLLOW THE VIDEO TAPING PROCEDURES FOR STORM WATER FACILITIES AS PRESCRIBED IN THE CITY OF SAVANNAH'S DOCUMENT TITLES "NEW CONSTRUCTION TELEVISIONING PROCEDURE MANUAL" AS PREPARED BY THE WATER AND SEWER DEPARTMENT.
16. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
17. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

18. ANY DISTURBED AREA LEFT FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND TEMPORARY SEEDING.
19. CONTRACTOR SHALL WORK CLOSELY WITH THE UTILITY COMPANIES, CITY OF SAVANNAH, CHATHAM COUNTY AND THE AIRPORT STAFF AND RESIDENT ENGINEER IN THE AREA OF EXISTING UTILITIES TO REMAIN AND UTILITIES WHICH ARE TO BE RELOCATED, LOWERED, RAISED, ETC. TO ENSURE THAT ALL UTILITIES; EXISTING TO REMAIN OR RELOCATED, HAVE THE APPROPRIATE DEPTH, SEPARATION AND ENCASEMENT. THESE UTILITIES ARE SHOWN WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE ROUTING OF THE EXISTING UTILITIES IS APPROXIMATE AND SHOWN SCHEMATICALLY AND MUST BE FIELD VERIFIED. **THE CONTRACTOR IS SPECIFICALLY WARNED AGAINST SCALING LOCATIONS OF ANY UNDERGROUND UTILITIES INDICATED IN THESE PLANS.** THE CONTRACTOR WILL USE ELECTRONIC DETECTION DEVICES AND CAREFUL HAND EXCAVATION TO LOCATE ANY UNDERGROUND UTILITIES WHICH ARE CRITICAL FOR SAFE CONSTRUCTION OPERATIONS.
20. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE GEORGIA TRENCH SAFETY ACT AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA) TRENCH EXCAVATION STANDARDS. 29 CFR, S. 11926.650, SUBPART P, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THESE STANDARDS AS ADOPTED BY THE DEPARTMENT OF LABOR.
21. ALL COSTS ASSOCIATED WITH THE POST-CONSTRUCTION SURVEY SHALL BE INCLUDED IN MOBILIZATION. POST-CONSTRUCTION SURVEY TO BE PERFORMED BY A REGISTERED GEORGIA LAND SURVEYOR. THE SURVEY SHOULD, AS A MINIMUM, INCLUDE TOPOGRAPHIC SURVEY AT 50' GRID, AND INCLUDE SUFFICIENT DATA TO DEFINE SWALE TOP OF BANK, TOE OF SLOPE, POND BOTTOMS, TOP OF BANK, BERM WIDTH, DRAINAGE PIPE AND STRUCTURE DATA, UTILITY PIPE AND STRUCTURE DATA, SHOCK PAD LOCATION, DEPTH AND DIMENSIONS AND ALL OTHER UNDERGROUND UTILITY LOCATIONS AND STRUCTURE DATA. SIGNED AND SEALED SURVEY TO BE SUBMITTED TO THE ENGINEER OF RECORD AT THE CONCLUSION OF THE PROJECT. SUBMITTAL SHOULD INCLUDE HARD COPIES OF THE SURVEY, ALL AUTOCAD FILES, AND ASCII POINT FILE.

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 72 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



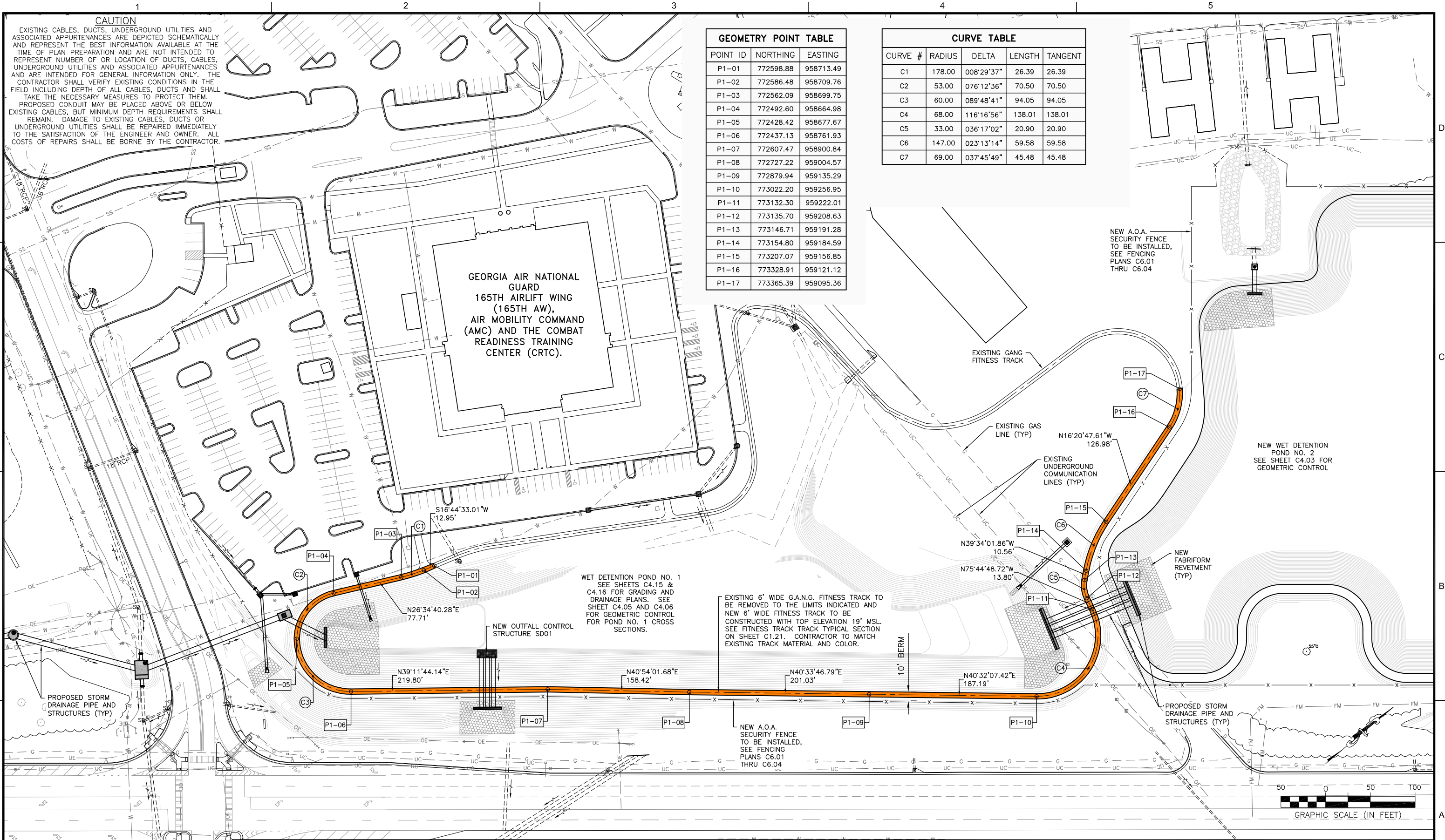
PM:	RWP
DWG. BY:	APD
CHK. BY:	EJF
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>GRADING AND DRAINAGE NOTES</b>	<b>C4.01</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C4-02-GEO-WET-DET-1.dwg LAYOUT NAME: C4-02 PLOTTED: Friday, February 26, 2021 - 8:29am USER: Norma.Presley



**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

**GEOMETRY POINT TABLE**

POINT ID	NORTHING	EASTING
P1-01	772598.88	958713.49
P1-02	772586.48	958709.76
P1-03	772562.09	958699.75
P1-04	772492.60	958664.98
P1-05	772428.42	958677.67
P1-06	772437.13	958761.93
P1-07	772607.47	958900.84
P1-08	772727.22	959004.57
P1-09	772879.94	959135.29
P1-10	773022.20	959256.95
P1-11	773132.30	959222.01
P1-12	773135.70	959208.63
P1-13	773146.71	959191.28
P1-14	773154.80	959184.59
P1-15	773207.07	959156.85
P1-16	773328.91	959121.12
P1-17	773365.39	959095.36

**CURVE TABLE**

CURVE #	RADIUS	DELTA	LENGTH	TANGENT
C1	178.00	008°29'37"	26.39	26.39
C2	53.00	076°12'36"	70.50	70.50
C3	60.00	089°48'41"	94.05	94.05
C4	68.00	116°16'56"	138.01	138.01
C5	33.00	036°17'02"	20.90	20.90
C6	147.00	023°13'14"	59.58	59.58
C7	69.00	037°45'49"	45.48	45.48

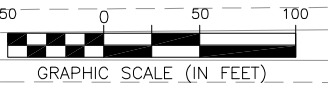
GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING  
(165TH AW),  
AIR MOBILITY COMMAND  
(AMC) AND THE COMBAT  
READINESS TRAINING  
CENTER (CRTC).

WET DETENTION POND NO. 1  
SEE SHEETS C4.15 &  
C4.16 FOR GRADING AND  
DRAINAGE PLANS. SEE  
SHEET C4.05 AND C4.06  
FOR GEOMETRIC CONTROL  
FOR POND NO. 1 CROSS  
SECTIONS.

EXISTING 6' WIDE G.A.N.G. FITNESS TRACK TO  
BE REMOVED TO THE LIMITS INDICATED AND  
NEW 6' WIDE FITNESS TRACK TO BE  
CONSTRUCTED WITH TOP ELEVATION 19' MSL.  
SEE FITNESS TRACK TRACK TYPICAL SECTION  
ON SHEET C1.21. CONTRACTOR TO MATCH  
EXISTING TRACK MATERIAL AND COLOR.

NEW A.O.A.  
SECURITY FENCE  
TO BE INSTALLED.  
SEE FENCING  
PLANS C6.01  
THRU C6.04

NEW WET DETENTION  
POND NO. 2  
SEE SHEET C4.03 FOR  
GEOMETRIC CONTROL



CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY  
MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST  
CONTACT GEORGIA 811 BY CALLING 811 OR  
1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN  
10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES  
MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

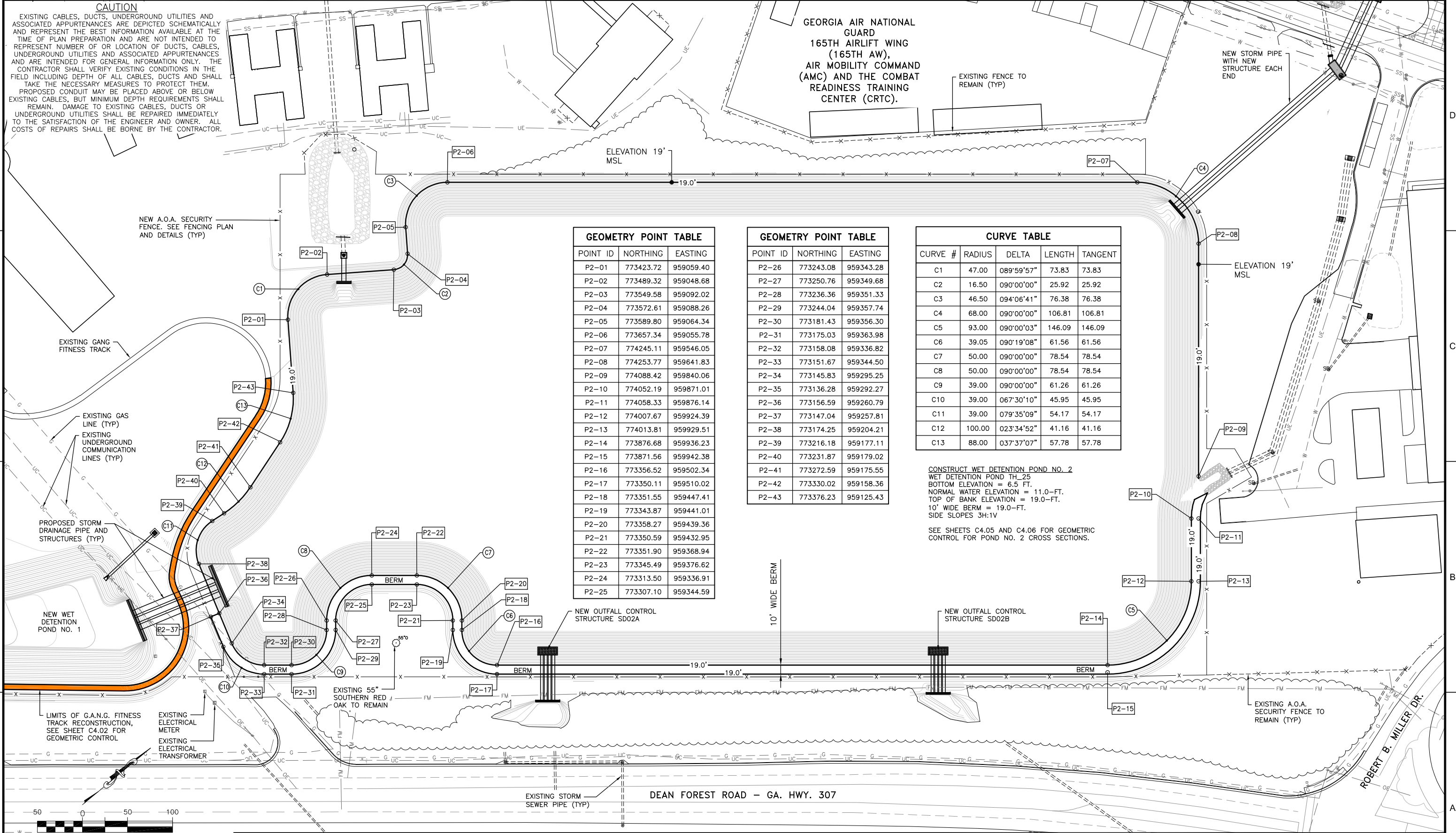
SHEET TITLE  
**GEOMETRIC CONTROL - G.A.N.G. FITNESS TRACK & WET DET. POND NO. 1**

SHEET NO.  
**C4.02**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C4-03-Geo-WET-DET-2.dwg LAYOUT NAME: C4-03 PLOTTED: Friday, February 26, 2021 - 8:29am USER: Norma.Presley



**CAUTION**  
 EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

GEORGIA AIR NATIONAL GUARD  
 165TH AIRLIFT WING  
 (165TH AW),  
 AIR MOBILITY COMMAND  
 (AMC) AND THE COMBAT  
 READINESS TRAINING  
 CENTER (CRTC).

**GEOMETRY POINT TABLE**

POINT ID	NORTHING	EASTING
P2-01	773423.72	959059.40
P2-02	773489.32	959048.68
P2-03	773549.58	959092.02
P2-04	773572.61	959088.26
P2-05	773589.80	959064.34
P2-06	773657.34	959055.78
P2-07	774245.11	959546.05
P2-08	774253.77	959641.83
P2-09	774088.42	959840.06
P2-10	774052.19	959871.01
P2-11	774058.33	959876.14
P2-12	774007.67	959924.39
P2-13	774013.81	959929.51
P2-14	773876.68	959936.23
P2-15	773871.56	959942.38
P2-16	773356.52	959502.34
P2-17	773350.11	959510.02
P2-18	773351.55	959447.41
P2-19	773343.87	959441.01
P2-20	773358.27	959439.36
P2-21	773350.59	959432.95
P2-22	773351.90	959368.94
P2-23	773345.49	959376.62
P2-24	773313.50	959336.91
P2-25	773307.10	959344.59

**GEOMETRY POINT TABLE**

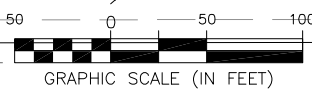
POINT ID	NORTHING	EASTING
P2-26	773243.08	959343.28
P2-27	773250.76	959349.68
P2-28	773236.36	959351.33
P2-29	773244.04	959357.74
P2-30	773181.43	959356.30
P2-31	773175.03	959363.98
P2-32	773158.08	959336.82
P2-33	773151.67	959344.50
P2-34	773145.83	959295.25
P2-35	773136.28	959292.27
P2-36	773156.59	959260.79
P2-37	773147.04	959257.81
P2-38	773174.25	959204.21
P2-39	773216.18	959177.11
P2-40	773231.87	959179.02
P2-41	773272.59	959175.55
P2-42	773330.02	959158.36
P2-43	773376.23	959125.43

**CURVE TABLE**

CURVE #	RADIUS	DELTA	LENGTH	TANGENT
C1	47.00	089°59'57"	73.83	73.83
C2	16.50	090°00'00"	25.92	25.92
C3	46.50	094°06'41"	76.38	76.38
C4	68.00	090°00'00"	106.81	106.81
C5	93.00	090°00'03"	146.09	146.09
C6	39.05	090°19'08"	61.56	61.56
C7	50.00	090°00'00"	78.54	78.54
C8	50.00	090°00'00"	78.54	78.54
C9	39.00	090°00'00"	61.26	61.26
C10	39.00	067°30'10"	45.95	45.95
C11	39.00	079°35'09"	54.17	54.17
C12	100.00	023°34'52"	41.16	41.16
C13	88.00	037°37'07"	57.78	57.78

CONSTRUCT WET DETENTION POND NO. 2  
 WET DETENTION POND TH\_25  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 11.0-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 10' WIDE BERM = 19.0-FT.  
 SIDE SLOPES 3H:1V

SEE SHEETS C4.05 AND C4.06 FOR GEOMETRIC CONTROL FOR POND NO. 2 CROSS SECTIONS.



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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
 1480 Chatham Parkway, Suite 100  
 Savannah, Georgia | (912) 200-3041

**AECOM**  
 AECOM Technical Services, Inc.  
 7650 W. Courtney Campbell Causeway  
 Tampa, FL 33607-1462  
 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

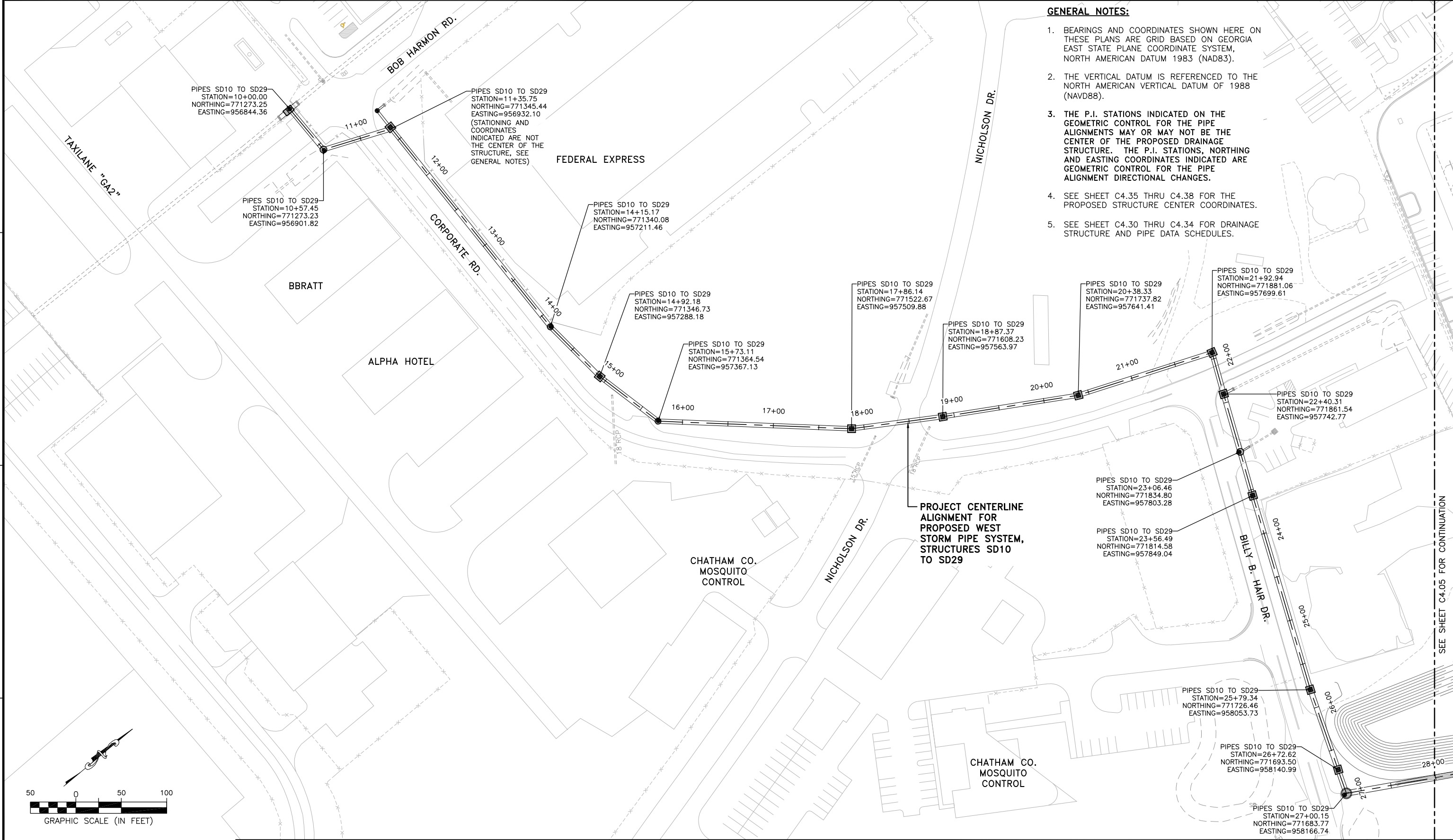
SHEET TITLE: **GEOMETRIC CONTROL - WET DETENTION POND NO. 2**

SHEET NO.: **C4.03**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

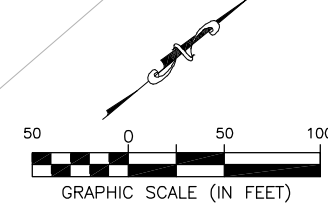


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C4-04-07-GEO\_ALIGN.dwg LAYOUT NAME: C4-04 PLOTTED: Friday, February 26, 2021 8:30am USER: Norma.Pressley



**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THE P.I. STATIONS INDICATED ON THE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.



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DATE:	MARCH, 2021

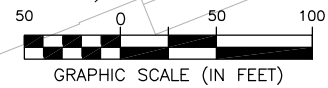
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GEOMETRIC CONTROL - PROJECT ALIGNMENTS (1)**

SHEET NO.: **C4.04**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C4-04-07-GEO\_ALIGN.dwg LAYOUT NAME: C4-05 PLOTTED: Friday, February 26, 2021 - 8:30am USER: Norma.Pressley



**GENERAL NOTES:**

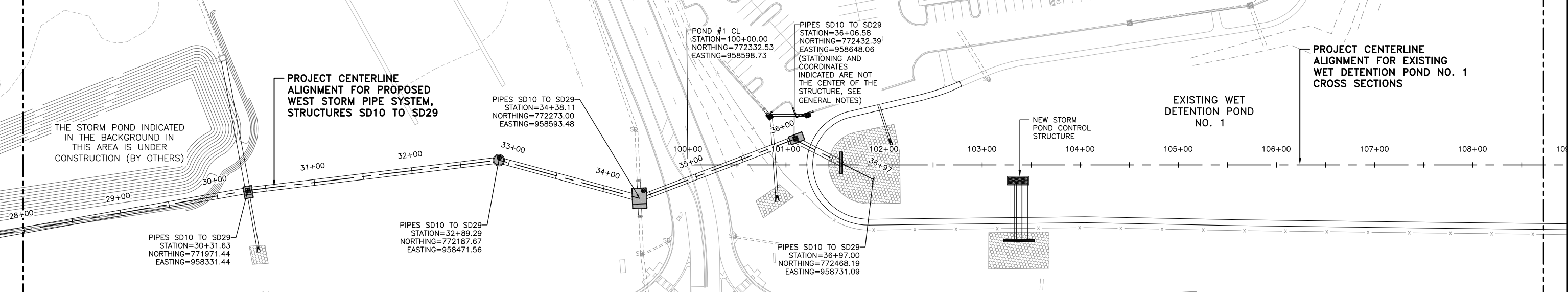
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
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4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

THIS AREA IS UNDER CONSTRUCTION (BY OTHERS)

GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

SEE SHEET C4.04 FOR CONTINUATION

SEE SHEET C4.06 FOR CONTINUATION



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PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
GEOMETRIC CONTROL - PROJECT ALIGNMENTS (2)	C4.05



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C4-04-07-GEO\_ALIGN.dwg LAYOUT NAME: C4-06 PLOTTED: Friday, February 26, 2021 - 8:30am USER: Norma.Pressley

**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.

GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

PROJECT CENTERLINE  
ALIGNMENT FOR PROPOSED  
EAST STORM PIPE SYSTEM,  
STRUCTURES SD40 TO SD45

PIPES SD45-SD40  
STATION=52+58.24  
NORTHING=774499.88  
EASTING=959592.17  
(STATIONING AND  
COORDINATES  
INDICATED ARE NOT  
THE CENTER OF THE  
STRUCTURE, SEE  
GENERAL NOTES)

PIPES SD45-SD40  
STATION=50+00.00  
NORTHING=774241.70  
EASTING=959597.45

POND #2 CL  
STATION=210+87.00  
NORTHING=774137.42  
EASTING=959810.18

POND #2 CL  
STATION=200+00.00  
NORTHING=773302.69  
EASTING=959113.91

PROJECT  
CENTERLINE  
ALIGNMENT FOR  
PROPOSED STORM  
PIPE SYSTEM  
(3-60" RCP),  
STRUCTURES SD03  
TO SD04

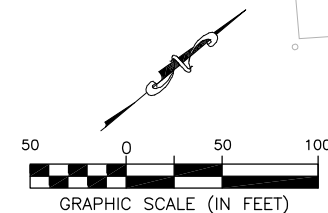
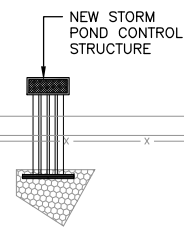
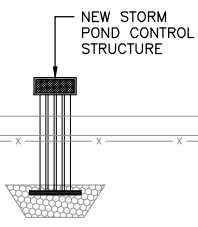
PIPES SD03 SD04  
STATION=101+50.00  
NORTHING=773212.69  
EASTING=959249.00

POND #1 CL  
STATION=110+75.00  
NORTHING=773158.04  
EASTING=959287.32

PIPES SD03 SD04  
STATION=100+00.00  
NORTHING=773069.51  
EASTING=959204.31

PROJECT CENTERLINE  
ALIGNMENT FOR NEW WET  
DETENTION POND NO. 2  
CROSS SECTIONS

PROPOSED WET  
DETENTION POND  
NO. 2



DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

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10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES  
MARKED.

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MAR. 2021	BID DOCUMENTS	APD	RWP



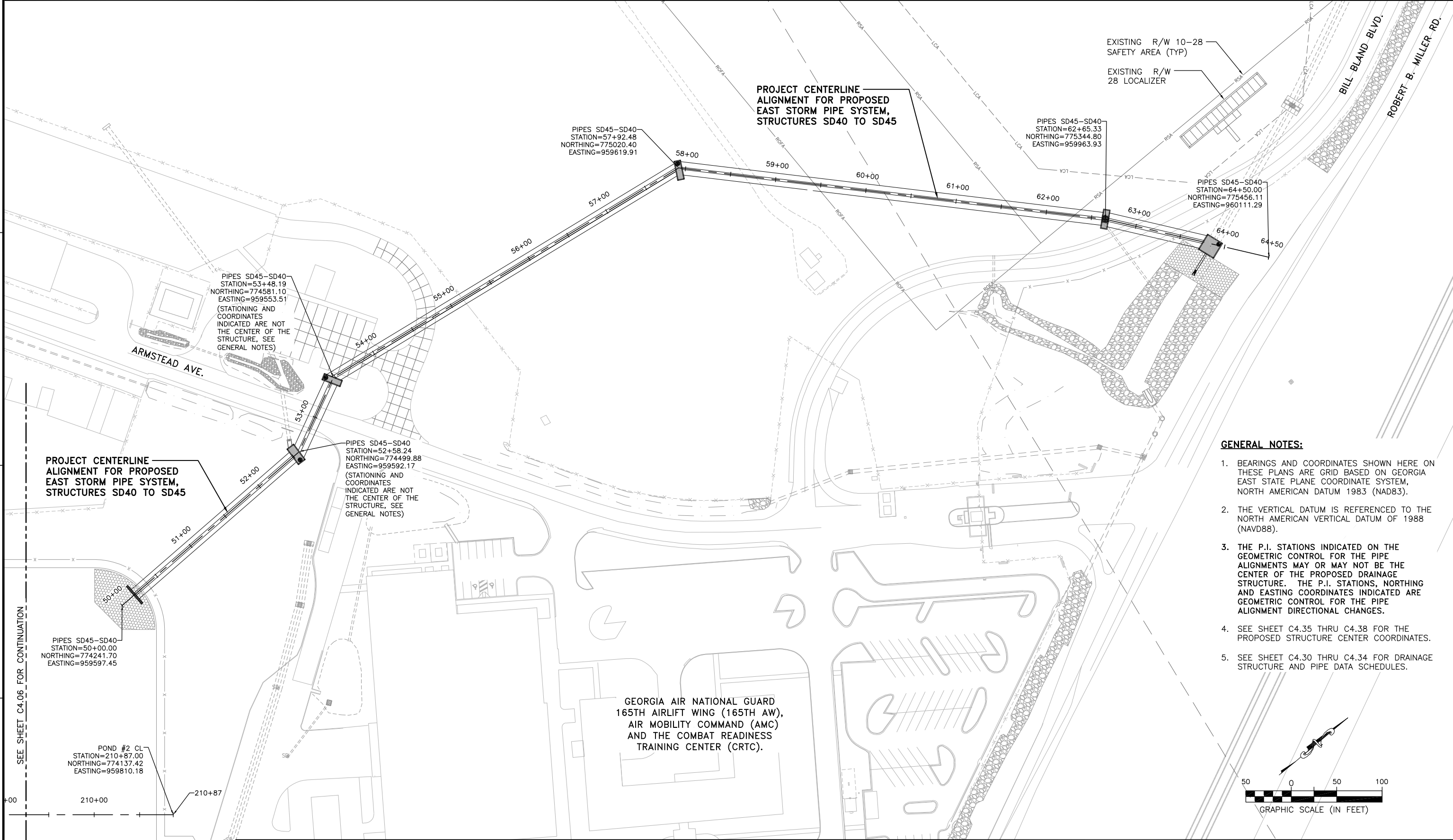
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
GEOMETRIC CONTROL - PROJECT ALIGNMENTS (3)	C4.06



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_sEQquadring\900-Work\910\_CAD\20-SHEETS\C4-04-07-GEO ALIGN.dwg LAYOUT NAME: C4-07 PLOTTED: Friday, February 26, 2021 - 8:30am USER: Norma.Pressley



**PROJECT CENTERLINE ALIGNMENT FOR PROPOSED EAST STORM PIPE SYSTEM, STRUCTURES SD40 TO SD45**

EXISTING R/W 10-28 SAFETY AREA (TYP)  
EXISTING R/W 28 LOCALIZER

PIPES SD45-SD40  
STATION=57+92.48  
NORTHING=775020.40  
EASTING=959619.91

PIPES SD45-SD40  
STATION=62+65.33  
NORTHING=775344.80  
EASTING=959963.93

PIPES SD45-SD40  
STATION=64+50.00  
NORTHING=775456.11  
EASTING=960111.29

PIPES SD45-SD40  
STATION=53+48.19  
NORTHING=774581.10  
EASTING=959553.51  
(STATIONING AND COORDINATES INDICATED ARE NOT THE CENTER OF THE STRUCTURE, SEE GENERAL NOTES)

**PROJECT CENTERLINE ALIGNMENT FOR PROPOSED EAST STORM PIPE SYSTEM, STRUCTURES SD40 TO SD45**

PIPES SD45-SD40  
STATION=52+58.24  
NORTHING=774499.88  
EASTING=959592.17  
(STATIONING AND COORDINATES INDICATED ARE NOT THE CENTER OF THE STRUCTURE, SEE GENERAL NOTES)

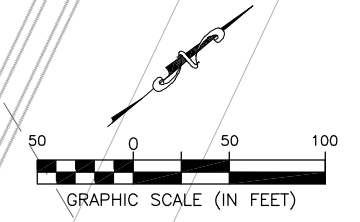
PIPES SD45-SD40  
STATION=50+00.00  
NORTHING=774241.70  
EASTING=959597.45

POND #2 CL  
STATION=210+87.00  
NORTHING=774137.42  
EASTING=959810.18

GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

**GENERAL NOTES:**

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4. SEE SHEET C4.35 THRU C4.38 FOR THE PROPOSED STRUCTURE CENTER COORDINATES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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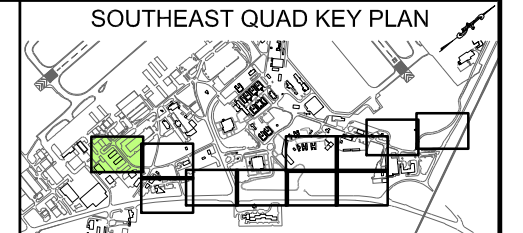
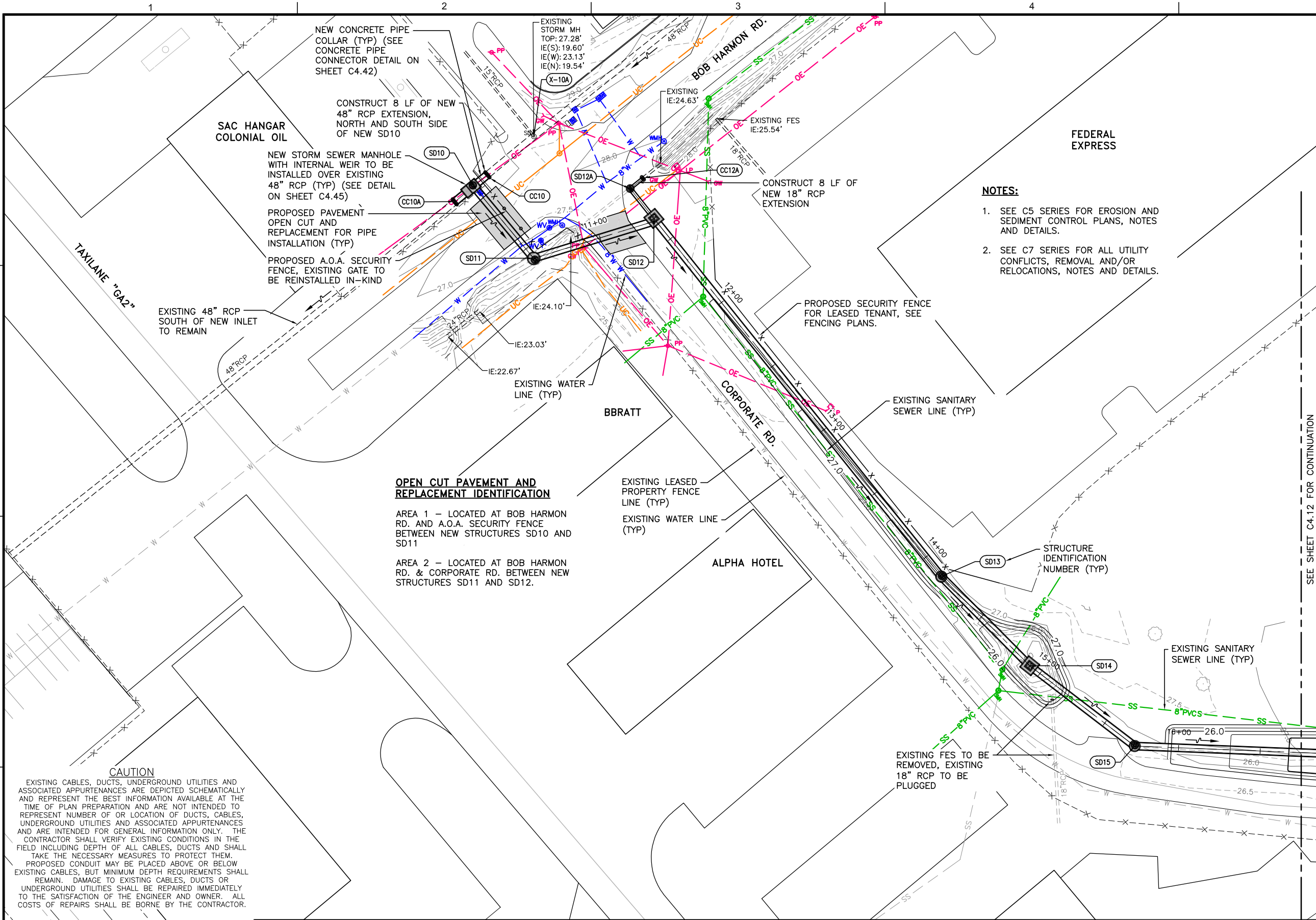
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GEOMETRIC CONTROL - PROJECT ALIGNMENTS (4)**

SHEET NO.: **C4.07**



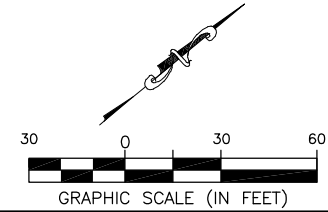
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_GRAD\_DRAIN.dwg LAYOUT NAME: C4-11 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley



- GENERAL NOTES:**
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  3. SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
  4. SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  6. SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 — PROPOSED MAJOR CONTOUR
  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
  - X-X- — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANG — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)

SEE SHEET C4.12 FOR CONTINUATION



**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

AREA 1 — LOCATED AT BOB HARMON RD. AND A.O.A. SECURITY FENCE BETWEEN NEW STRUCTURES SD10 AND SD11

AREA 2 — LOCATED AT BOB HARMON RD. & CORPORATE RD. BETWEEN NEW STRUCTURES SD11 AND SD12.

- NOTES:**
1. SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  2. SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

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Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (1)**

SHEET NO.: **C4.11**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_GRAD\_DRAIN.dwg LAYOUT NAME: C4-12 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

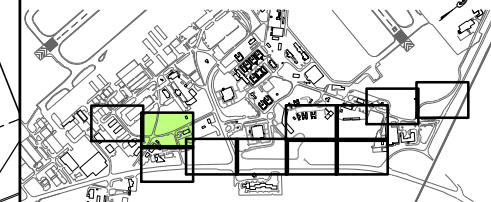
**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

AREA 3 - LOCATED AT NICHOLSON DR. AND CORPORATE RD. BETWEEN NEW STRUCTURES SD16 AND SD17

AREA 4 - LOCATED AT ARMSTEAD AVE. AT INTERSECTION OF BILLY B. HAIR BETWEEN NEW STRUCTURES SD19 AND SD20

AREA 5 - LOCATED AT BILLY B. HAIR AND SAVANNAH POLICE SUB-STATION ENTRANCE DRIVE AT NEW STRUCTURE SD21.

**SOUTHEAST QUAD KEY PLAN**



**GENERAL NOTES:**

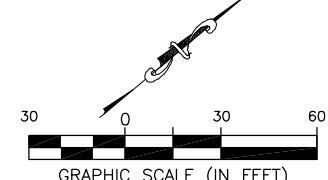
1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
3. SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
4. SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
6. SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

**GRADING & DRAINAGE LEGEND**

- 17.0 - PROPOSED MAJOR CONTOUR
- 17.5 - PROPOSED MAJOR CONTOUR
- 17.0 - EXISTING MAJOR CONTOUR
- 17.5 - EXISTING MAJOR CONTOUR
- SD0 - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
- 18" RCP - EXISTING STORM DRAIN PIPE TO BE REMOVED
- 18" RCP - EXISTING STORM DRAIN PIPE TO BE PLUGGED
- SD0 - PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
- LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
- OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- X - PROPOSED SECURITY FENCE
- X-X-X- EXISTING FENCE TO REMAIN

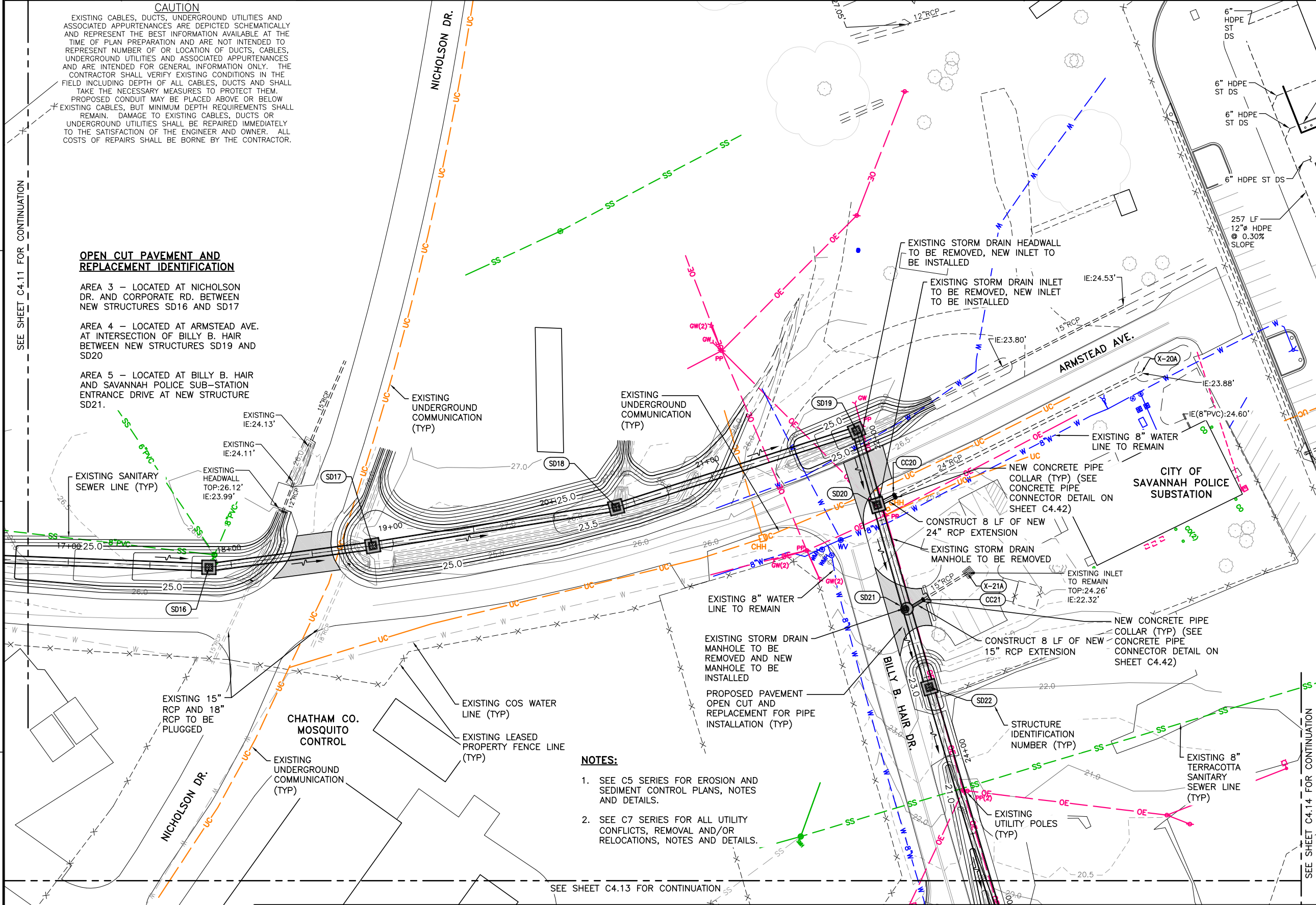
**EXISTING UTILITIES**

- UE - EXISTING UNDERGROUND ELECTRIC
- OE - EXISTING OVERHEAD ELECTRIC
- G - EXISTING GAS LINE
- UNK - EXISTING UNKNOWN UG UTILITY
- UC - EXISTING COMM LINE
- ANG - EXISTING G.A.N.G. COMM LINE
- SS - EXISTING SANITARY SEWER
- FM - EXISTING SANITARY FORCE MAIN
- W - EXISTING WATER LINE
- FAA - EXISTING FAA CABLE(S)



**NOTES:**

1. SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
2. SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

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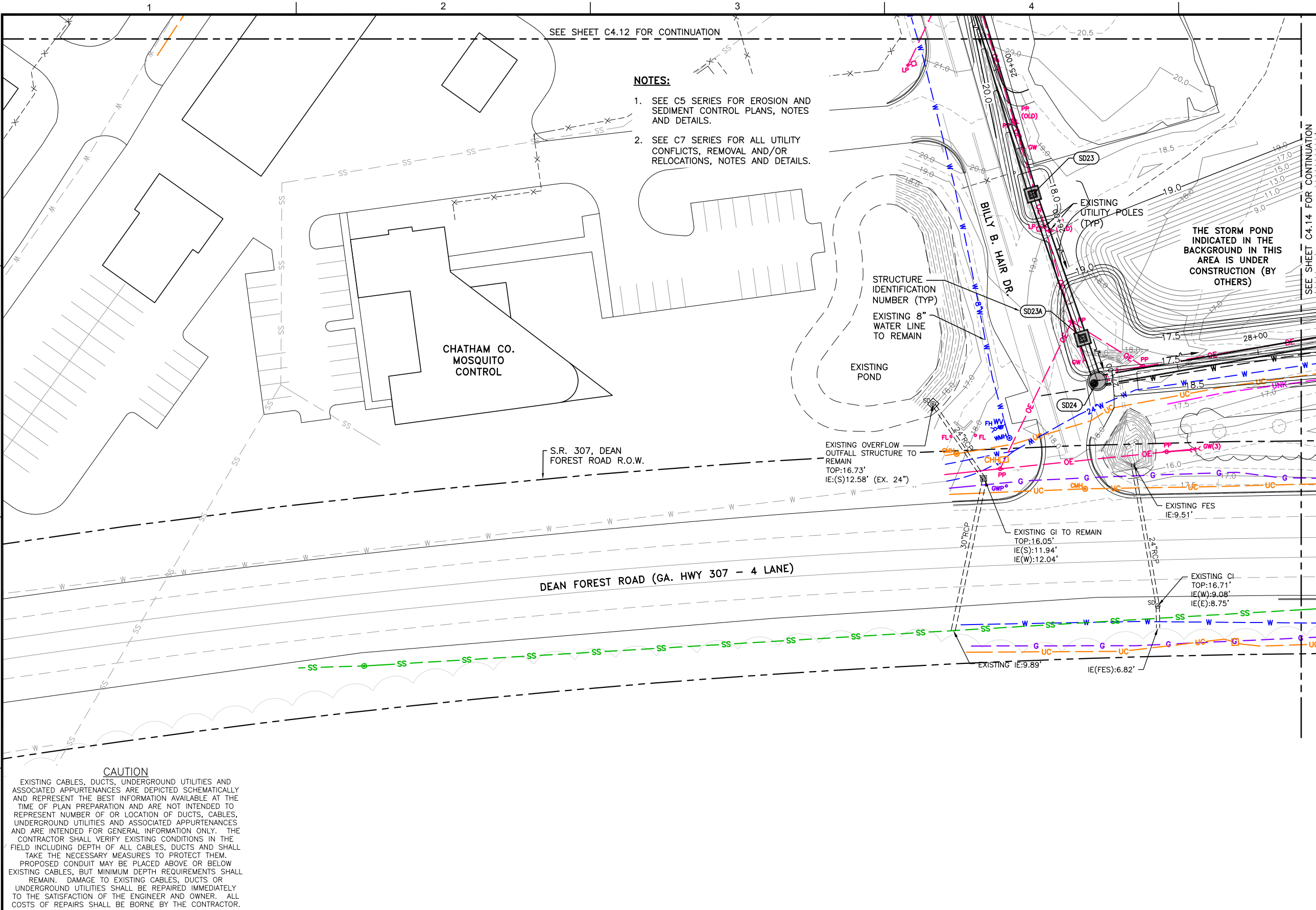
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**  
 SHEET TITLE  
**GRADING AND DRAINAGE PLAN (2)**  
 SHEET NO.  
**C4.12**

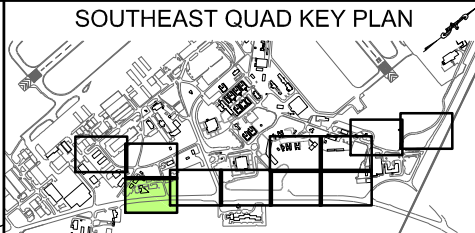


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C4-11-C4-21 GRAD DRAIN.dwg LAYOUT NAME: C4-13 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley



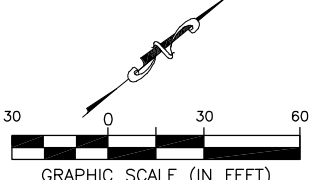
SEE SHEET C4.12 FOR CONTINUATION

- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.



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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
  - SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 — PROPOSED MAJOR CONTOUR
  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
  - X-X- — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANG — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

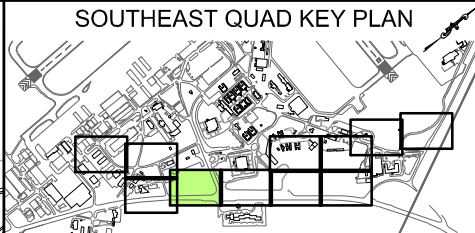
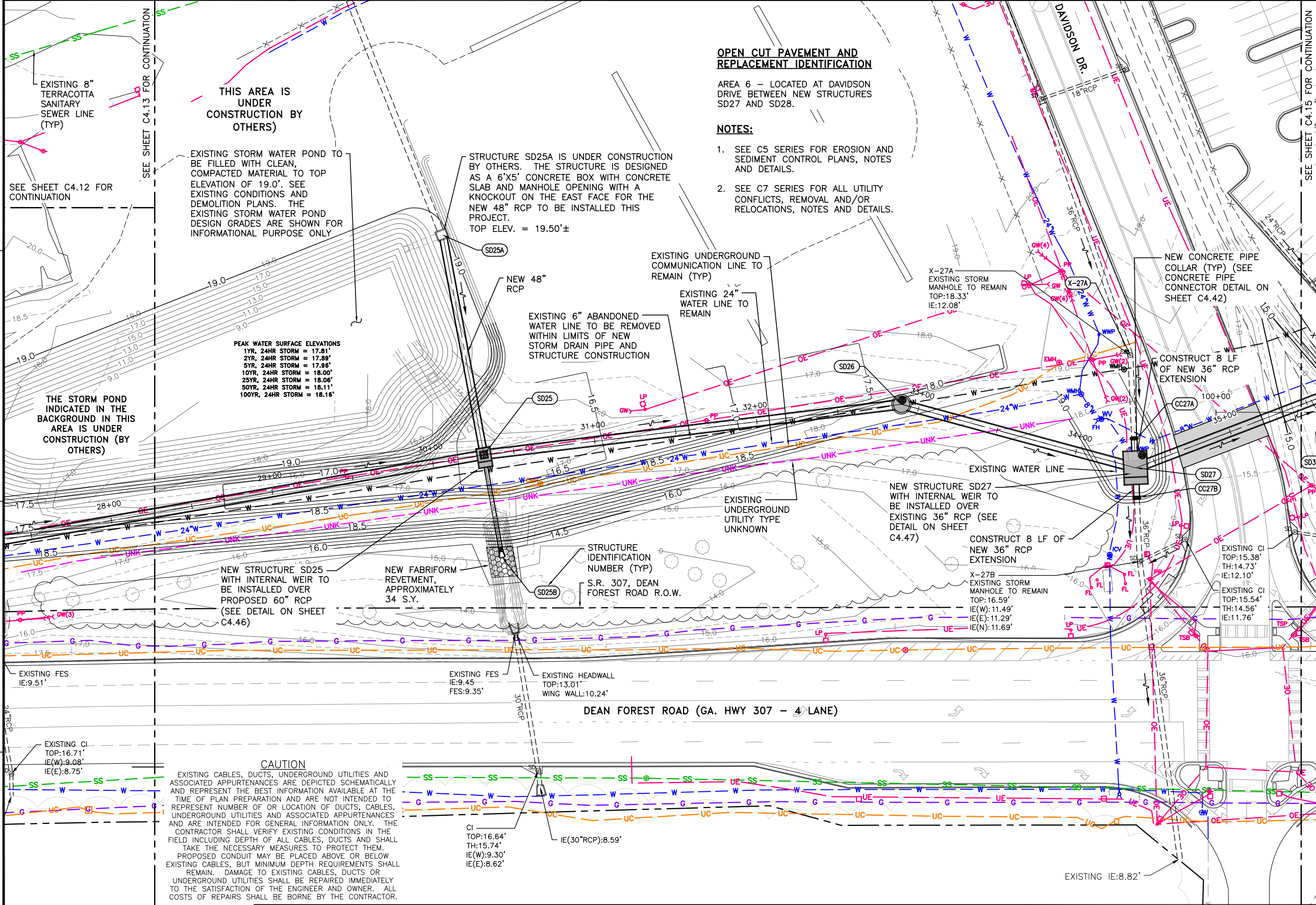
SHEET TITLE: **GRADING AND DRAINAGE PLAN (3)**

SHEET NO.: **C4.13**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_DRN.DWG LAYOUT NAME: C4-14 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley



**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

AREA 6 - LOCATED AT DAVIDSON DRIVE BETWEEN NEW STRUCTURES SD27 AND SD28.

**NOTES:**

1. SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
2. SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

THIS AREA IS UNDER CONSTRUCTION BY OTHERS

EXISTING STORM WATER POND TO BE FILLED WITH CLEAN, COMPACTED MATERIAL TO TOP ELEVATION OF 19.0'. SEE EXISTING CONDITIONS AND DEMOLITION PLANS. THE EXISTING STORM WATER POND DESIGN GRADES ARE SHOWN FOR INFORMATIONAL PURPOSE ONLY

STRUCTURE SD25A IS UNDER CONSTRUCTION BY OTHERS. THE STRUCTURE IS DESIGNED AS A 6'X5' CONCRETE BOX WITH CONCRETE SLAB AND MANHOLE OPENING WITH A KNOCKOUT ON THE EAST FACE FOR THE NEW 48" RCP TO BE INSTALLED THIS PROJECT. TOP ELEV. = 19.50'±

**PEAK WATER SURFACE ELEVATIONS**  
 1YR, 24HR STORM = 17.81'  
 2YR, 24HR STORM = 17.89'  
 5YR, 24HR STORM = 17.96'  
 10YR, 24HR STORM = 18.00'  
 25YR, 24HR STORM = 18.08'  
 50YR, 24HR STORM = 18.11'  
 100YR, 24HR STORM = 18.16'

THE STORM POND INDICATED IN THE BACKGROUND IN THIS AREA IS UNDER CONSTRUCTION (BY OTHERS)

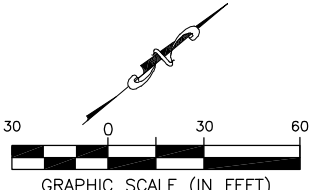
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5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
6. SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

**GRADING & DRAINAGE LEGEND**

- 17.0 - PROPOSED MAJOR CONTOUR
- 17.5 - PROPOSED MAJOR CONTOUR
- 17.0 - EXISTING MAJOR CONTOUR
- 17.5 - EXISTING MAJOR CONTOUR
- SD - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
- 18" RCP - EXISTING STORM DRAIN PIPE TO BE REMOVED
- 18" RCP - EXISTING STORM DRAIN PIPE TO BE PLUGGED
- SD - PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- SD20 - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
- - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
- - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- X - PROPOSED SECURITY FENCE
- X-X- - EXISTING FENCE TO REMAIN
- UE - EXISTING UNDERGROUND ELECTRIC
- OE - EXISTING OVERHEAD ELECTRIC
- G - EXISTING GAS LINE
- UNK - EXISTING UNKNOWN UG UTILITY
- UC - EXISTING COMM LINE
- ANG - EXISTING G.A.N.G. COMM LINE
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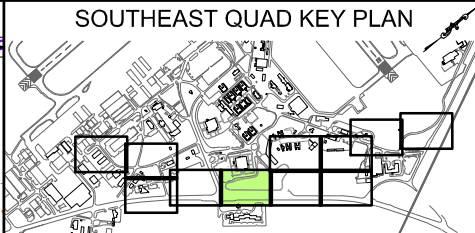
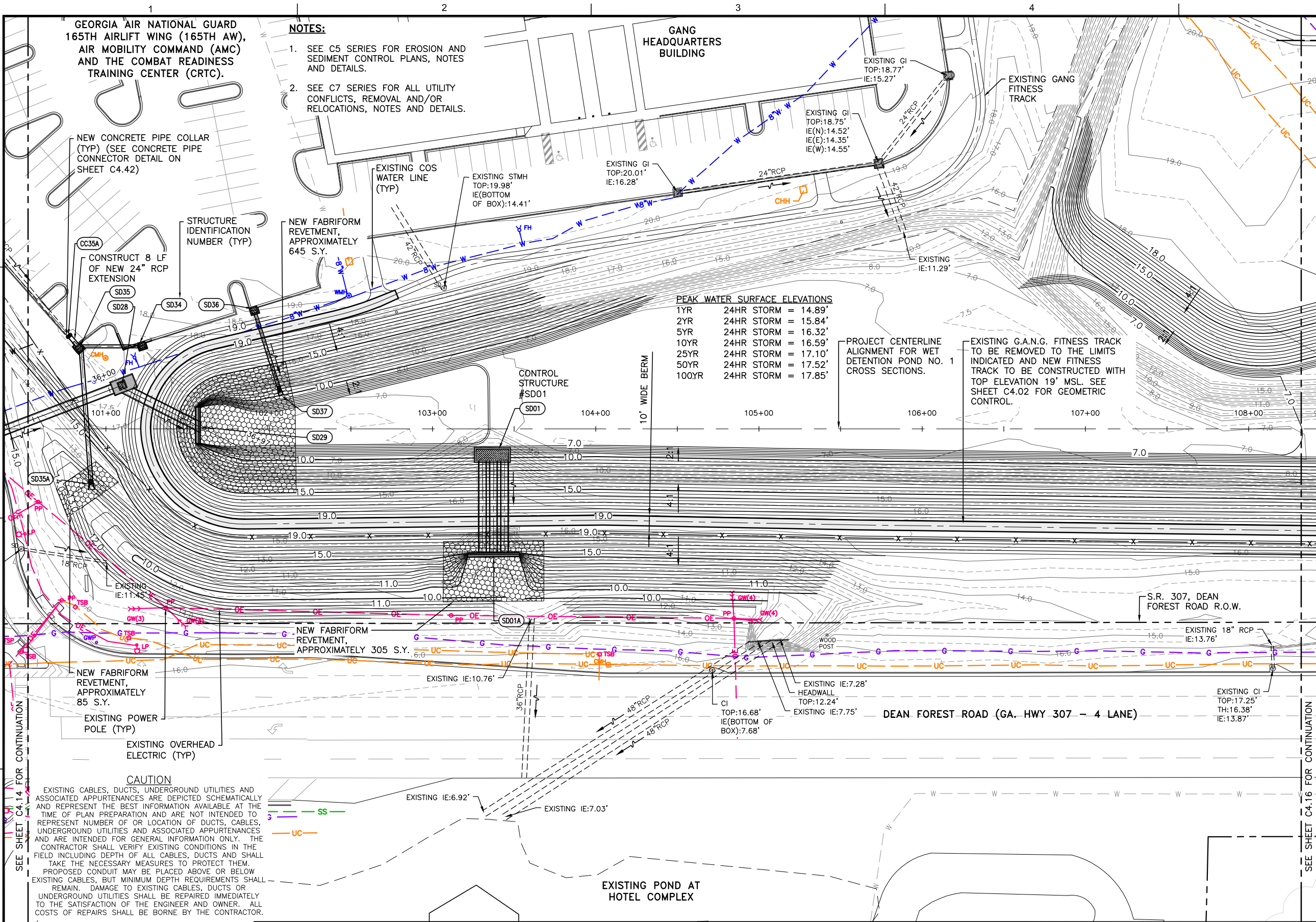
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (4)**

SHEET NO.: **C4.14**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_GRAD\_DRAIN.dwg LAYOUT NAME: C4-15 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley



- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

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  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

**PEAK WATER SURFACE ELEVATIONS**

1YR	24HR STORM	= 14.89'
2YR	24HR STORM	= 15.84'
5YR	24HR STORM	= 16.32'
10YR	24HR STORM	= 16.59'
25YR	24HR STORM	= 17.10'
50YR	24HR STORM	= 17.52'
100YR	24HR STORM	= 17.85'

- GRADING & DRAINAGE LEGEND**
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  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
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  - SD01 — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - [Pattern] — LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
  - [Pattern] — LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - [Pattern] — OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
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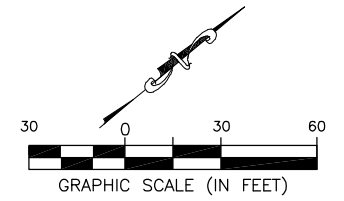
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

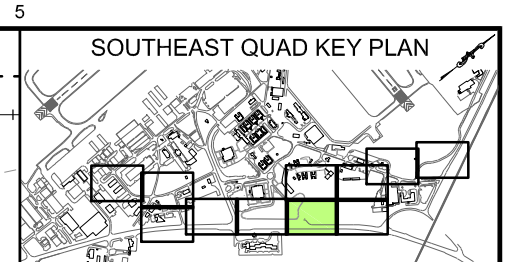
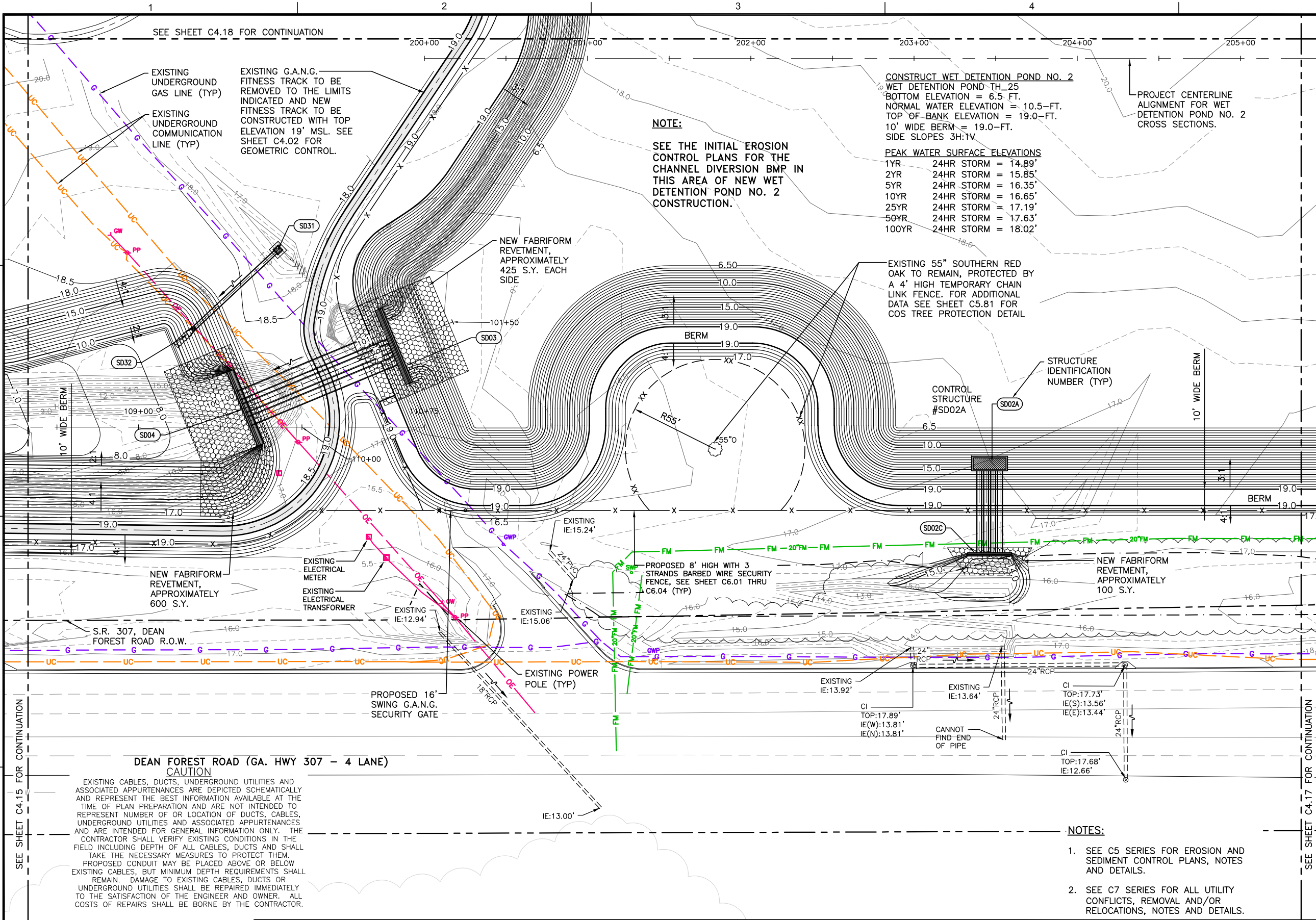
SHEET TITLE: **GRADING AND DRAINAGE PLAN (5)**

SHEET NO.: **C4.15**



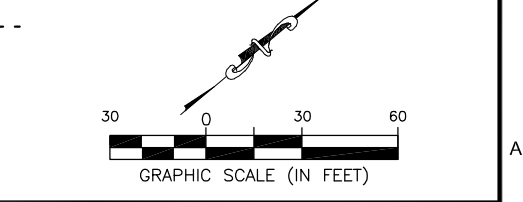


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_GRAD\_DRAIN.dwg LAYOUT NAME: C4-16 PLOTTED: Friday, February 26, 2021 - 8:31am USER: Norma.Pressley



- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
  - SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 — PROPOSED MAJOR CONTOUR
  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVELTMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
  - X-X- — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANG — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)



**CONSTRUCT WET DETENTION POND NO. 2**  
 WET DETENTION POND TH\_25  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 10.5-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 10' WIDE BERM = 19.0-FT.  
 SIDE SLOPES 3H:1V

**NOTE:**  
 SEE THE INITIAL EROSION CONTROL PLANS FOR THE CHANNEL DIVERSION BMP IN THIS AREA OF NEW WET DETENTION POND NO. 2 CONSTRUCTION.

**PEAK WATER SURFACE ELEVATIONS**

1YR	24HR STORM	= 14.89'
2YR	24HR STORM	= 15.85'
5YR	24HR STORM	= 16.35'
10YR	24HR STORM	= 16.65'
25YR	24HR STORM	= 17.19'
50YR	24HR STORM	= 17.63'
100YR	24HR STORM	= 18.02'

PROJECT CENTERLINE ALIGNMENT FOR WET DETENTION POND NO. 2 CROSS SECTIONS.

SEE SHEET C4.18 FOR CONTINUATION

**DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)**

**CAUTION**  
 EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

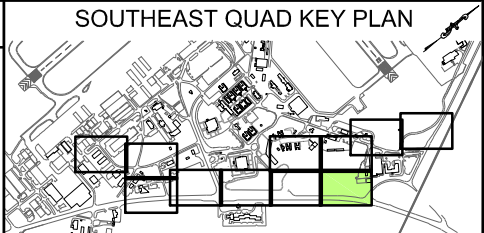
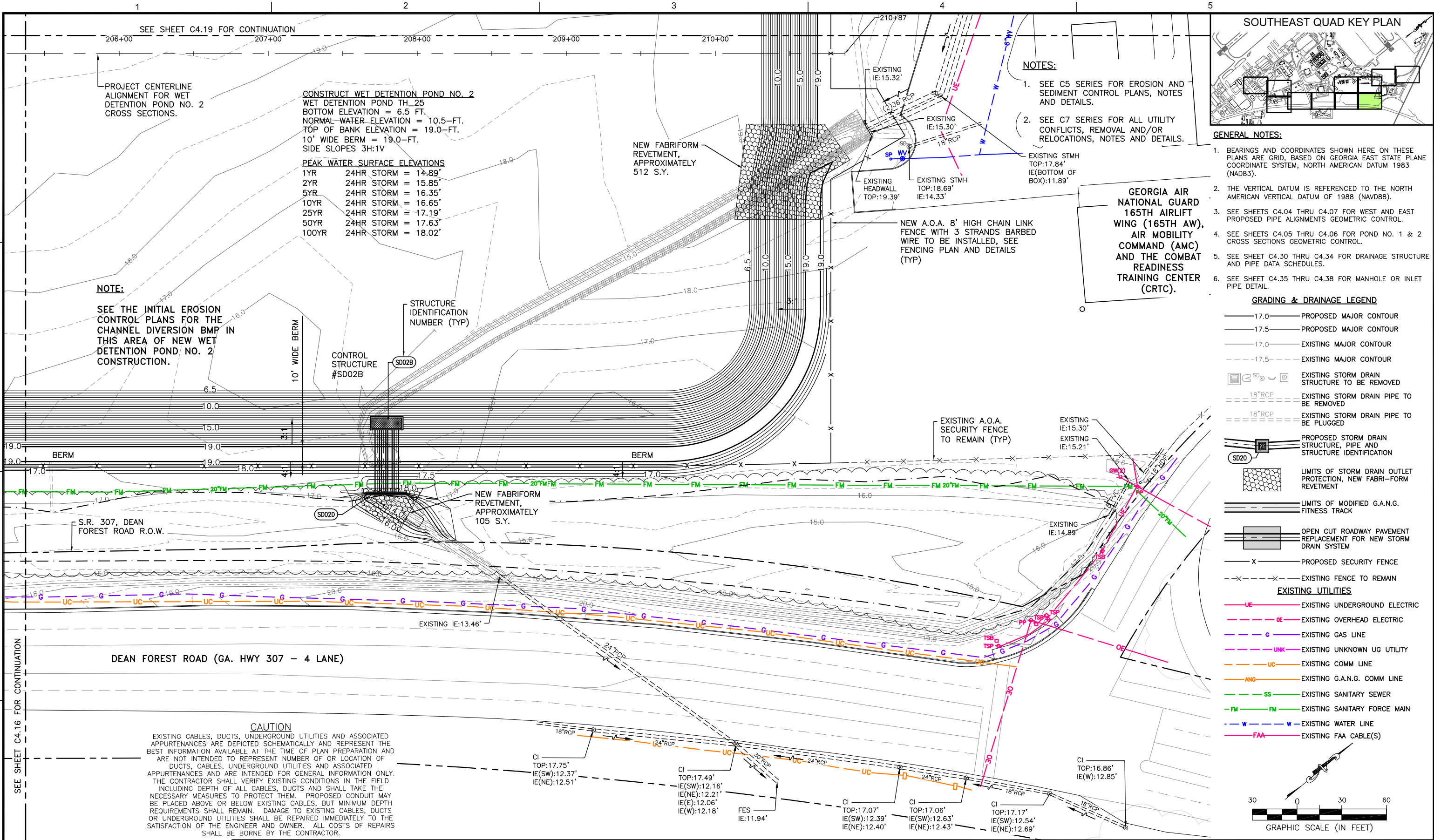
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (6)**

SHEET NO.: **C4.16**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21\_GRAD\_DRAIN.dwg LAYOUT NAME: C4-17 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley



- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
  - SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 — PROPOSED MAJOR CONTOUR
  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD0 — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
  - X-X- — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE — EXISTING UNDERGROUND ELECTRIC
  - OE — EXISTING OVERHEAD ELECTRIC
  - G — EXISTING GAS LINE
  - UNK — EXISTING UNKNOWN UG UTILITY
  - UC — EXISTING COMM LINE
  - ANG — EXISTING G.A.N.G. COMM LINE
  - SS — EXISTING SANITARY SEWER
  - FM — EXISTING SANITARY FORCE MAIN
  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)

**CONSTRUCT WET DETENTION POND NO. 2**  
 WET DETENTION POND TH.25  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 10.5-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 10' WIDE BERM = 19.0-FT.  
 SIDE SLOPES 3H:1V

**PEAK WATER SURFACE ELEVATIONS**

1YR	24HR STORM	= 14.89'
2YR	24HR STORM	= 15.85'
5YR	24HR STORM	= 16.35'
10YR	24HR STORM	= 16.65'
25YR	24HR STORM	= 17.19'
50YR	24HR STORM	= 17.63'
100YR	24HR STORM	= 18.02'

**NOTE:**  
 SEE THE INITIAL EROSION CONTROL PLANS FOR THE CHANNEL DIVERSION BMP IN THIS AREA OF NEW WET DETENTION POND NO. 2 CONSTRUCTION.

**CAUTION**  
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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
 1480 Chatham Parkway, Suite 100  
 Savannah, Georgia | (912) 200-3041

**AECOM**  
 AECOM Technical Services, Inc.  
 7650 W. Courtney Campbell Causeway  
 Tampa, FL 33607-1462  
 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (7)**

SHEET NO.: **C4.17**

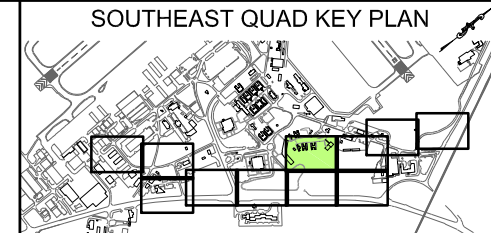


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21 GRAD\_DRAIN.dwg LAYOUT NAME: C4-18 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley

**CAUTION**  
 EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

**NOTES:**

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- SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

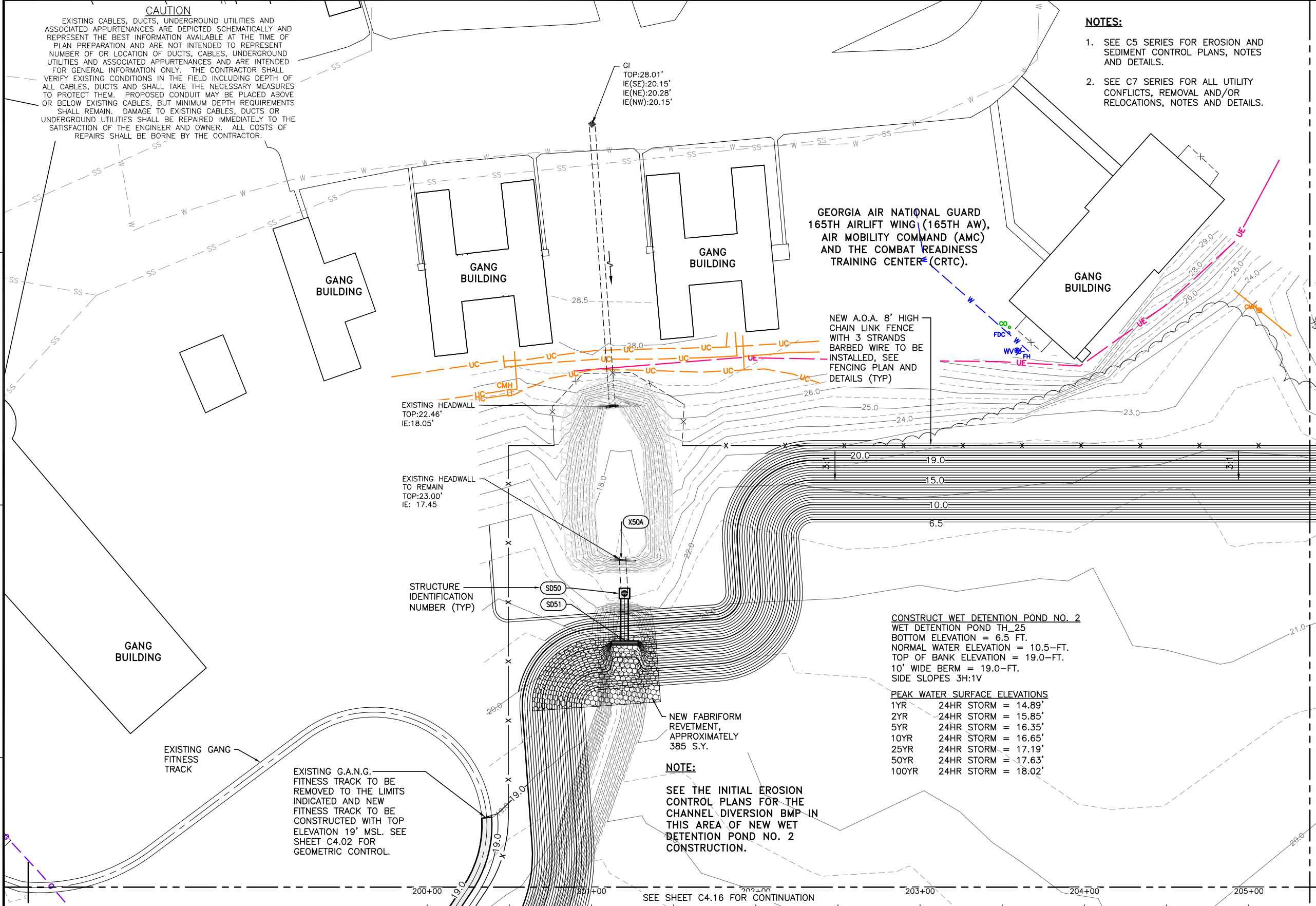
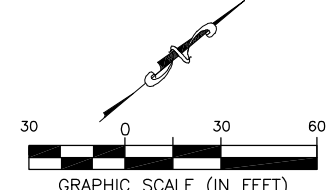


**GENERAL NOTES:**

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- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
- SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
- SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
- SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

**GRADING & DRAINAGE LEGEND**

- 17.0 PROPOSED MAJOR CONTOUR
- 17.5 PROPOSED MAJOR CONTOUR
- 17.0 EXISTING MAJOR CONTOUR
- 17.5 EXISTING MAJOR CONTOUR
- EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
- 18" RCP EXISTING STORM DRAIN PIPE TO BE REMOVED
- 18" RCP EXISTING STORM DRAIN PIPE TO BE PLUGGED
- PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
- LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
- OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- PROPOSED SECURITY FENCE
- EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE EXISTING UNDERGROUND ELECTRIC
- OE EXISTING OVERHEAD ELECTRIC
- G EXISTING GAS LINE
- UNK EXISTING UNKNOWN UG UTILITY
- UC EXISTING COMM LINE
- ANG EXISTING G.A.N.G. COMM LINE
- SS EXISTING SANITARY SEWER
- FM EXISTING SANITARY FORCE MAIN
- W EXISTING WATER LINE
- FAA EXISTING FAA CABLE(S)



**CONSTRUCT WET DETENTION POND NO. 2**  
 WET DETENTION POND TH\_25  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 10.5-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 10' WIDE BERM = 19.0-FT.  
 SIDE SLOPES 3H:1V

**PEAK WATER SURFACE ELEVATIONS**

1YR	24HR STORM	= 14.89'
2YR	24HR STORM	= 15.85'
5YR	24HR STORM	= 16.35'
10YR	24HR STORM	= 16.65'
25YR	24HR STORM	= 17.19'
50YR	24HR STORM	= 17.63'
100YR	24HR STORM	= 18.02'

**NOTE:**  
 SEE THE INITIAL EROSION CONTROL PLANS FOR THE CHANNEL DIVERSION BMP IN THIS AREA OF NEW WET DETENTION POND NO. 2 CONSTRUCTION.

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MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

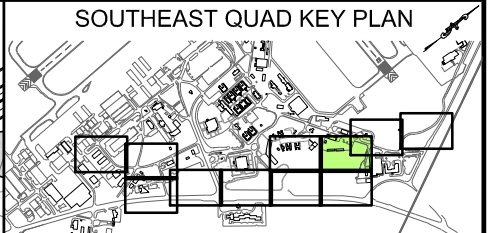
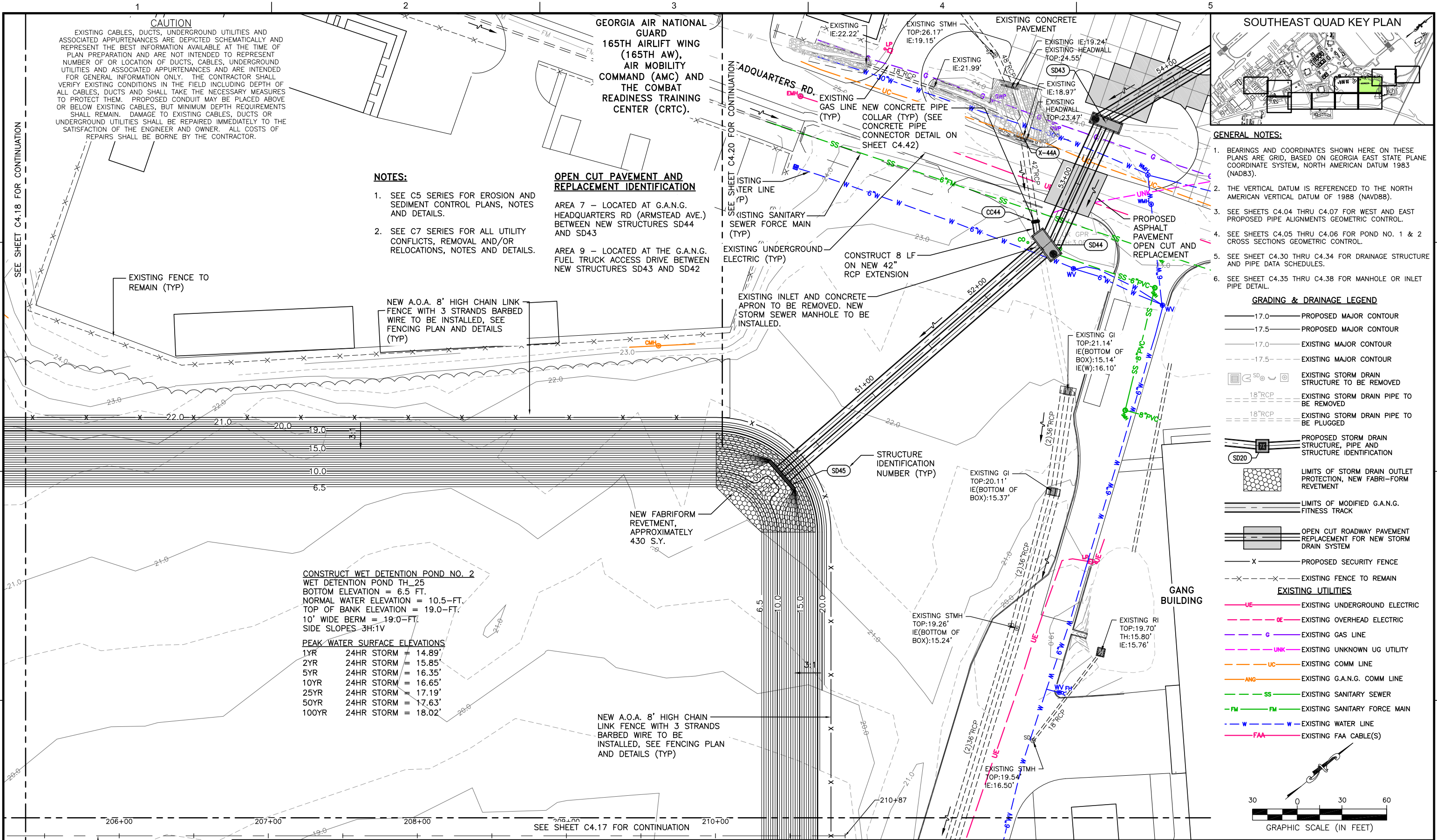
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (8)**

SHEET NO.: **C4.18**

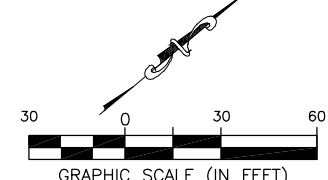


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21 GRAD DRNG.dwg LAYOUT NAME: C4-19 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
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  - SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 — PROPOSED MAJOR CONTOUR
  - 17.5 — PROPOSED MAJOR CONTOUR
  - 17.0 — EXISTING MAJOR CONTOUR
  - 17.5 — EXISTING MAJOR CONTOUR
  - SD — EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP — EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 — PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVELTMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X — PROPOSED SECURITY FENCE
  - X-X- — EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
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  - OE — EXISTING OVERHEAD ELECTRIC
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  - UC — EXISTING COMM LINE
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  - W — EXISTING WATER LINE
  - FAA — EXISTING FAA CABLE(S)



**CAUTION**  
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- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

AREA 7 — LOCATED AT G.A.N.G. HEADQUARTERS RD (ARMSTEAD AVE.) BETWEEN NEW STRUCTURES SD44 AND SD43

AREA 9 — LOCATED AT THE G.A.N.G. FUEL TRUCK ACCESS DRIVE BETWEEN NEW STRUCTURES SD43 AND SD42

**CONSTRUCT WET DETENTION POND NO. 2**  
WET DETENTION POND TH\_25  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 10.5-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
10' WIDE BERM = 19.0-FT.  
SIDE SLOPES 3H:1V

**PEAK WATER SURFACE ELEVATIONS**

1YR	24HR STORM	= 14.89'
2YR	24HR STORM	= 15.85'
5YR	24HR STORM	= 16.35'
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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (9)**

SHEET NO.: **C4.19**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C4-11-C4-21 GRAD.DRAIN.dwg LAYOUT NAME: C4-20 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley

**CAUTION**

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**NOTES:**

- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
- SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.
- NEW STRUCTURE SD43 IS A STORM DRAIN / UTILITY CONFLICT STRUCTURE FOR EXISTING 30" WATER MAIN.

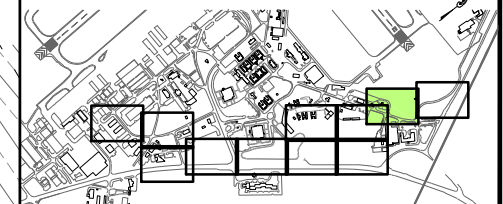
**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

AREA 7 - LOCATED AT G.A.N.G. HEADQUARTERS RD (ARMSTEAD AVE.) BETWEEN NEW STRUCTURES SD44 AND SD43

AREA 9 - LOCATED AT THE G.A.N.G. FUEL TRUCK ACCESS DRIVE BETWEEN NEW STRUCTURES SD43 AND SD42

EXISTING RUNWAY 28 REIL IS CO-LOCATED WITH THE LOCALIZER EQUIPMENT INSIDE THE LOCALIZER SHELTER, 2W2" CONDUIT WITH POWER CABLES

**SOUTHEAST QUAD KEY PLAN**

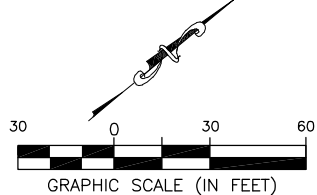


**GENERAL NOTES:**

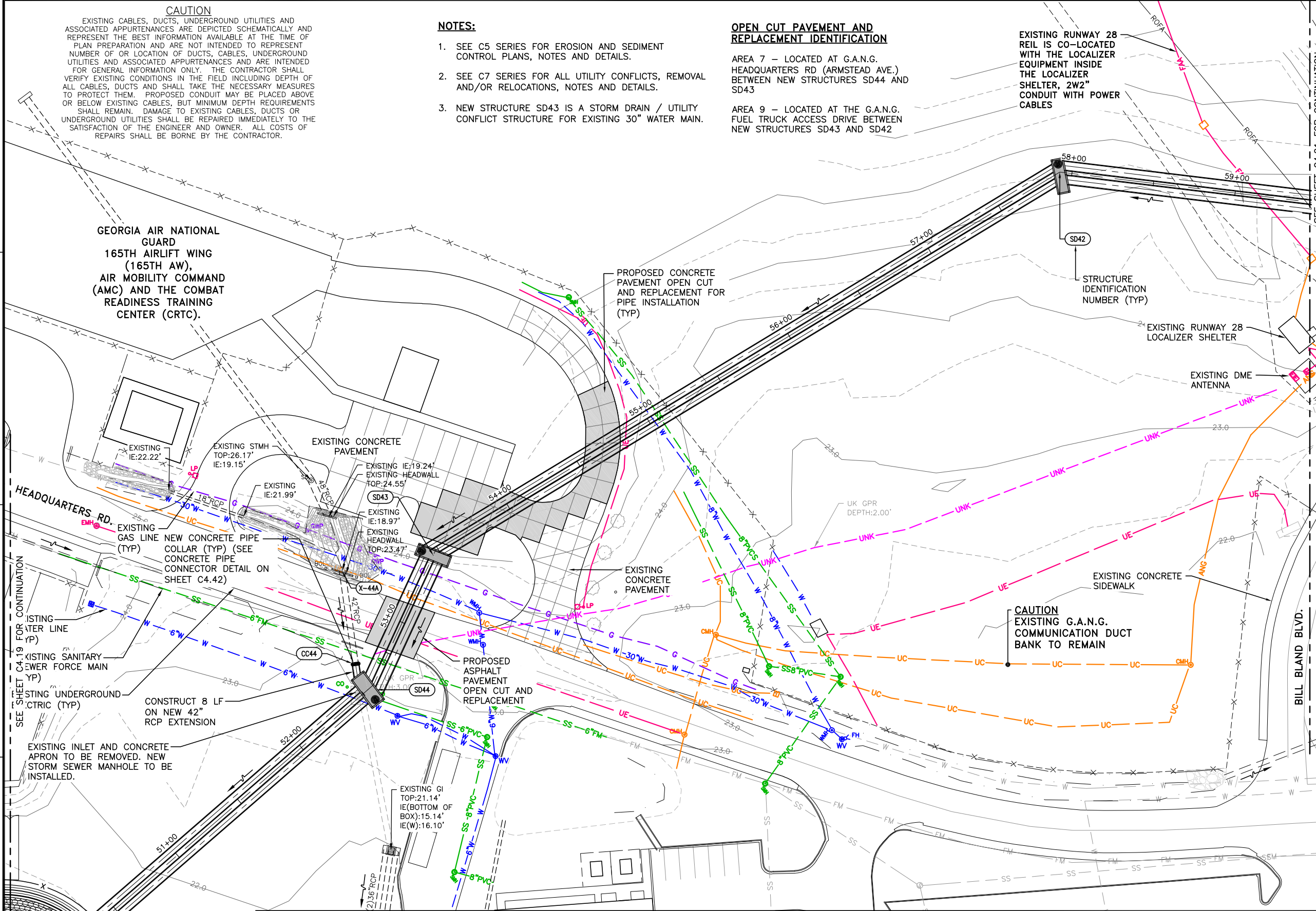
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
- SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
- SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
- SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
- SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

**GRADING & DRAINAGE LEGEND**

- 17.0 — PROPOSED MAJOR CONTOUR
- 17.5 — PROPOSED MAJOR CONTOUR
- 17.0 — EXISTING MAJOR CONTOUR
- 17.5 — EXISTING MAJOR CONTOUR
- SD0
- SD0
- 18" RCP
- 18" RCP
- PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
- SD20
- LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
- LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
- OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
- X
- X
- EXISTING UTILITIES
- UE
- OE
- G
- UNK
- UC
- ANG
- SS
- FM
- W
- W
- FAA



**GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING  
(165TH AW),  
AIR MOBILITY COMMAND  
(AMC) AND THE COMBAT  
READINESS TRAINING  
CENTER (CRTC).**



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

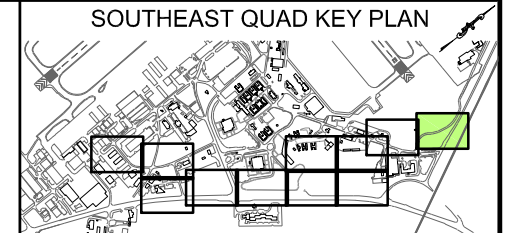
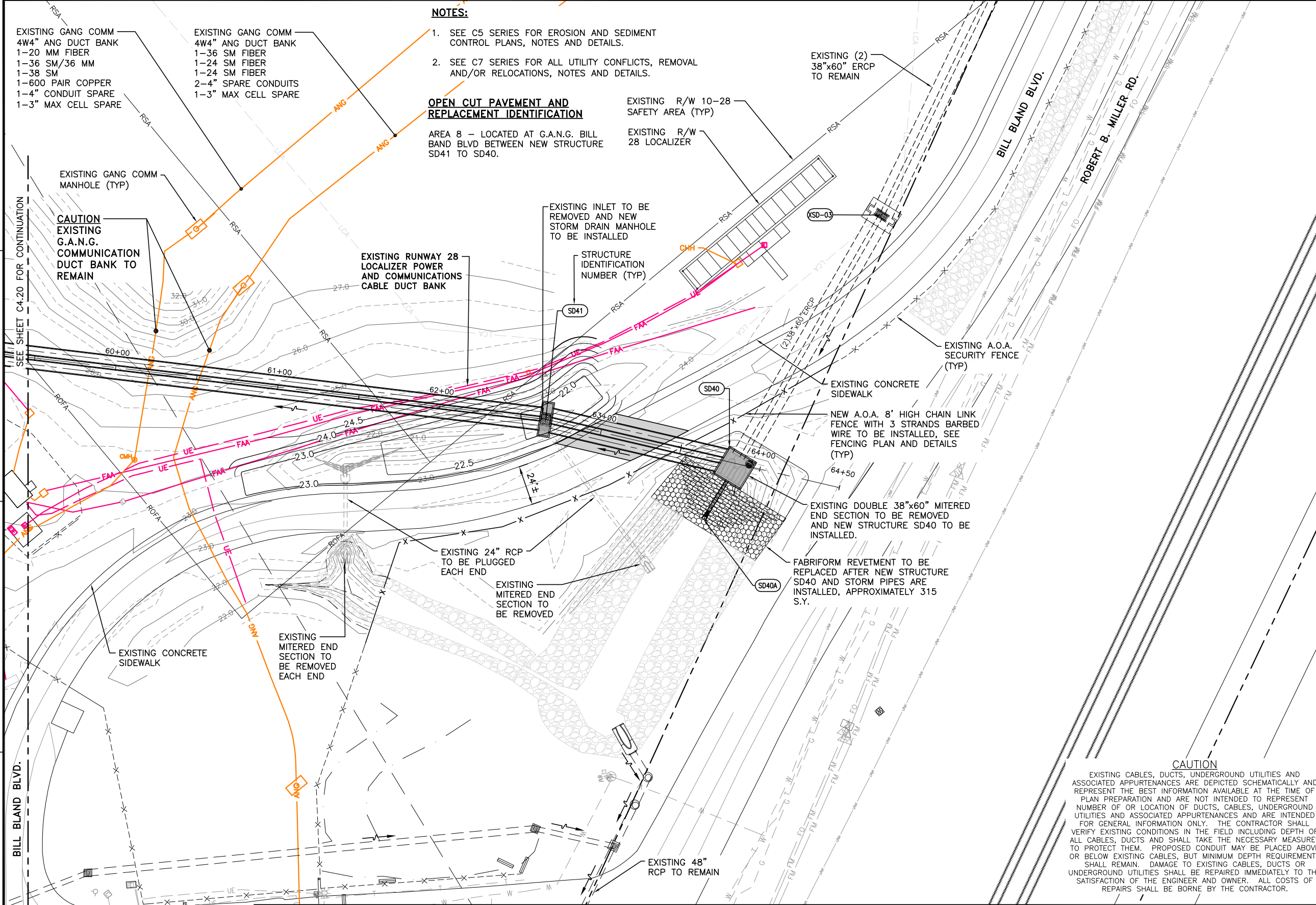
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (10)**

SHEET NO.: **C4.20**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQ\20-SHEETS\C4-11-C4-21 GRAD DRAIN.dwg LAYOUT NAME: C4-21 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley



- NOTES:**
- SEE C5 SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
  - SEE C7 SERIES FOR ALL UTILITY CONFLICTS, REMOVAL AND/OR RELOCATIONS, NOTES AND DETAILS.

**OPEN CUT PAVEMENT AND REPLACEMENT IDENTIFICATION**

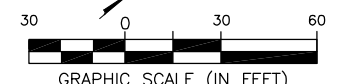
AREA 8 - LOCATED AT G.A.N.G. BILL BLAND BLVD BETWEEN NEW STRUCTURE SD41 TO SD40.

- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
  - SEE SHEETS C4.04 THRU C4.07 FOR WEST AND EAST PROPOSED PIPE ALIGNMENTS GEOMETRIC CONTROL.
  - SEE SHEETS C4.05 THRU C4.06 FOR POND NO. 1 & 2 CROSS SECTIONS GEOMETRIC CONTROL.
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - SEE SHEET C4.35 THRU C4.38 FOR MANHOLE OR INLET PIPE DETAIL.

- GRADING & DRAINAGE LEGEND**
- 17.0 - PROPOSED MAJOR CONTOUR
  - 17.5 - PROPOSED MAJOR CONTOUR
  - 17.0 - EXISTING MAJOR CONTOUR
  - 17.5 - EXISTING MAJOR CONTOUR
  - SD0 - EXISTING STORM DRAIN STRUCTURE TO BE REMOVED
  - 18" RCP - EXISTING STORM DRAIN PIPE TO BE REMOVED
  - 18" RCP - EXISTING STORM DRAIN PIPE TO BE PLUGGED
  - SD20 - PROPOSED STORM DRAIN STRUCTURE, PIPE AND STRUCTURE IDENTIFICATION
  - LIMITS OF STORM DRAIN OUTLET PROTECTION, NEW FABRI-FORM REVETMENT
  - LIMITS OF MODIFIED G.A.N.G. FITNESS TRACK
  - OPEN CUT ROADWAY PAVEMENT REPLACEMENT FOR NEW STORM DRAIN SYSTEM
  - X - PROPOSED SECURITY FENCE
  - X-X- EXISTING FENCE TO REMAIN
- EXISTING UTILITIES**
- UE - EXISTING UNDERGROUND ELECTRIC
  - OE - EXISTING OVERHEAD ELECTRIC
  - G - EXISTING GAS LINE
  - UNK - EXISTING UNKNOWN UG UTILITY
  - UC - EXISTING COMM LINE
  - ANG - EXISTING G.A.N.G. COMM LINE
  - SS - EXISTING SANITARY SEWER
  - FM - EXISTING SANITARY FORCE MAIN
  - W - EXISTING WATER LINE
  - FAA - EXISTING FAA CABLE(S)

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



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GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **GRADING AND DRAINAGE PLAN (11)**

SHEET NO.: **C4.21**



DRAINAGE STRUCTURE AND PIPE SCHEDULE

STRUCTURE NUMBER	STRUCTURE TYPE	PIPE DIAMETER (IN) & MATERIAL	LENGTH (FT)	PIPE SLOPE (%)	GRATE/RIM TOP ELEV.	INVERT ELEV. NORTH	INVERT ELEV. SOUTH	INVERT ELEV. EAST	INVERT ELEV. WEST	WEIRS	ORIFICES	KNOCKOUT WALL FOR FUTURE DEVELOPMENT	COMMENTS	SHEET LOCATION
SD01	POND #1 OUTFALL STRUCTURE, NEW 20'-0" x 7'-0" INSIDE DIMENSIONS WITH ALUMINUM BAR GRATING ON TOP, (2) RECTANGULAR WIERS AND (5) 18" DIAMETER ORIFICES FABRIFORM REVETMENT AT OUTFALL	(3) 48" RCP	59	0.51%	17.70				10.30	TOP OF (2) WEIR OPENINGS ELEV.=17.70 BOTTOM OF (4) WEIR OPENINGS ELEV. = 15.60 (1)12'-0" LONG WEST WALL (1) 4'-6" LONG NORTH WALL (1)4'-6" LONG SOUTH WALL	18" DIA. SCH. 40 PVC ORIFICES, ELEV. = 10.50' (6) WEST WALL	-	CONTROL STRUCTURE LOCATED IN EXISTING POND ADJACENT TO GANG FITNESS TRAIL	SEE SHEETS C2.15 & C4.15
SD01A	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL WITH FABRIFORM REVETMENT AND SECURITY BAR GRATES FOR NEW TRIPLE 48" RCP							10.00						SEE SHEETS C2.15 & C4.15
SD02A	POND #2 OUTFALL STRUCTURE A, NEW 20'-0" x 7'-0" INSIDE DIMENSIONS WITH ALUMINUM BAR GRATING ON TOP AND (3) RECTANGULAR WIERS FABRIFORM REVETMENT AT OUTFALL	(4) 30" RCP	54	0.37%	17.70				14.20	TOP OF (3) WEIR OPENINGS ELEV.=17.70 BOTTOM OF (3) WEIR OPENINGS ELEV. = 15.60 (1)12'-0" LONG WEST WALL (1) 5'-6" LONG SOUTH WALL (1) 5'-6" LONG NORTH WALL	-	-	CONTROL STRUCTURE LOCATED IN NEW POND #2 ADJACENT TO HWY 307	SEE SHEETS C2.16 & C4.16
SD02C	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL WITH FABRIFORM REVETMENT AND SECURITY BAR GRATES FOR NEW QUAD 30" RCP							14.00						SEE SHEETS C2.16 & C4.16
SD02B	POND #2 OUTFALL STRUCTURE B, NEW 20'-0" x 7'-0" INSIDE DIMENSIONS WITH ALUMINUM BAR GRATING ON TOP AND (3) RECTANGULAR WIERS FABRIFORM REVETMENT AT OUTFALL	(4) 30" RCP	45	0.44%	17.70				14.20	TOP OF (3) WEIR OPENINGS ELEV.=17.70 BOTTOM OF (3) WEIR OPENINGS ELEV. = 15.60 (1)18'-0" LONG WEST WALL (1) 5'-6" LONG SOUTH WALL (1) 5'-6" LONG NORTH WALL	-	-	CONTROL STRUCTURE LOCATED IN NEW POND #2 ADJACENT TO HWY 307	SEE SHEETS C2.17 & C4.17
SD02D	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL WITH FABRIFORM REVETMENT AND SECURITY BAR GRATES FOR NEW QUAD 30" RCP							14.00						SEE SHEETS C2.17 & C4.17
SD03	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL AND FABRIFORM REVETMENT FOR NEW TRIPLE 60" RCP	TRIPLE 60" RCP	101	0.99%		9.50				-	-	-	PIPES AND STRUCTURES LOCATED BETWEEN THE EXISTING POND AND THE NEW POND	SEE SHEETS C2.16 & C4.16
SD04	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL AND FABRIFORM REVETMENT FOR NEW TRIPLE 60" RCP						8.50			-	-	-	PIPES AND STRUCTURES LOCATED BETWEEN THE EXISTING POND AND THE NEW POND	SEE SHEETS C2.16 & C4.16
SD12A	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 4'-0" ROUND BOTTOM, INSIDE DIMENSION	24" RCP	18	2.72%	27.70	24.49		24.49		-	-	-		SEE SHEETS C2.11 & C4.11
SD12	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS				27.70			24.00		-	-	-		SEE SHEETS C2.11 & C4.11
X-10A	EXISTING STORM DRAIN MANHOLE	EXISTING 48" RCP	48	0.29%	27.28		19.60			-	-	-	LOCATED AT BOB HARMON RD, AND INTERSECTION OF CORPORATE RD.	SEE SHEETS C2.11 & C4.11
SD10	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 6'-0" x 6'-0" RECTANGULAR BOTTOM, INSIDE DIMENSION	48" RCP	53	1.30%	26.88	19.46	19.42	16.59		INSIDE WEIR WALL LENGTH = 6'-0" INSIDE WEIR WALL TOP ELEV. = 21.50	-	WEST WALL		SEE SHEETS C2.11 & C4.11
SD11	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 7'-0" ROUND BOTTOM, INSIDE DIMENSION	48" RCP	73	1.27%	26.00	15.90		15.90		-	-	-		SEE SHEETS C2.11 & C4.11
SD12	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	48" RCP	276	0.36%	27.70		14.97	14.97	24.00	-	-	NORTH WALL		SEE SHEETS C2.11 & C4.11
SD13	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 6'-0" ROUND BOTTOM, INSIDE DIMENSION	48" RCP	72	0.39%	26.19			13.98	13.98	-	-	NORTH WALL		SEE SHEETS C2.11 & C4.11
SD14	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	48" RCP	75	0.37%	25.50			13.70	13.70	-	-	NORTH WALL		SEE SHEETS C2.11 & C4.11

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_85QuadDmg\Design\900-Work\910 CAD\20-SHEETS\C4-30 DRAIN SCH.dwg LAYOUT NAME: C4-30 PLOTTED: Friday, February 26, 2021 - 8:32am USER: Norma.Pressley

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>DRAINAGE STRUCTURE AND PIPE DATA SCHEDULE (1)</b>	SHEET NO. <b>C4.30</b>



DRAINAGE STRUCTURE AND PIPE SCHEDULE

STRUCTURE NUMBER	STRUCTURE TYPE	PIPE DIAMETER (IN) & MATERIAL	LENGTH (FT)	PIPE SLOPE (%)	GRATE/RIM TOP ELEV.	INVERT ELEV. NORTH	INVERT ELEV. SOUTH	INVERT ELEV. EAST	INVERT ELEV. WEST	WEIRS	ORIFICES	KNOCKOUT WALL FOR FUTURE DEVELOPMENT	COMMENTS	SHEET LOCATION
SD15	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 6'-0" ROUND BOTTOM, INSIDE DIMENSION	48" RCP	208	0.37%	26.64			13.42	13.42	-	-	NORTH WALL		SEE SHEETS C2.11 & C4.11
SD16	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	48" RCP	94	0.38%	23.30	12.66	12.66			-	-	WEST WALL		SEE SHEETS C2.12 & C4.12
SD17	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	48" RCP	144	0.37%	23.80	12.30	12.30			-	-	WEST WALL		SEE SHEETS C2.12 & C4.12
SD18	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	48" RCP	147	0.37%	23.30	11.77	11.77			-	-	WEST WALL		SEE SHEETS C2.12 & C4.12
SD19	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	54" RCP	40	0.43%	23.80		11.22	11.22		-	-	NORTH AND WEST WALL		SEE SHEETS C2.12 & C4.12
SD20	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	54" RCP	60	0.40%	25.85	22.16		11.05	11.05	-	-	-		SEE SHEETS C2.12 & C4.12
SD21	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 7'-0" ROUND BOTTOM, INSIDE DIMENSION	54" RCP	44	0.39%	24.38			10.81	10.81	-	-	-	EXISTING STORM DRAIN MANHOLE TO BE REMOVED	SEE SHEETS C2.12 & C4.12
SD22	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0"x8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	54" RCP	215	0.37%	21.38			10.64	10.64	-	-	NORTH AND SOUTH		SEE SHEETS C2.12 & C4.12
SD23	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	54" RCP	86	0.40%	17.80			9.85	9.85	-	-	NORTH AND SOUTH		SEE SHEETS C2.13 & C4.13
SD23A	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 8'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	54" RCP	20	0.55%	17.34			9.51	9.51	-	-	NORTH AND SOUTH		SEE SHEETS C2.13 & C4.13
SD24	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 10'-0" ROUND BOTTOM, INSIDE DIMENSION	60" RCP	324	0.36%	18.03	9.40		9.40		-	-	EAST WALL		SEE SHEETS C2.13 & C4.13
SD25	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 11'-6" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	60" RCP	250	0.36%	16.50	8.23	8.23	13.00	8.23	INSIDE WEIR WALL LENGTH = 4'-0" INSIDE WEIR WALL TOP ELEV. = 13.40	-	WEST WALL		SEE SHEETS C2.14 & C4.14
SD26	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 10'-0" ROUND BOTTOM, INSIDE DIMENSION	60" RCP	139	0.38%	18.50	7.32	7.32			-	-	WEST WALL		SEE SHEETS C2.14 & C4.14
SD27	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 14' x 20' RECTANGULAR BOTTOM, INSIDE DIMENSION	60" RCP	158	0.38%	19.50	6.79	6.79	11.78	11.78	INSIDE WEIR WALL LENGTH = 14'-0" INSIDE WEIR WALL TOP ELEV. = 15.70	-	-		SEE SHEETS C2.14 & C4.14
SD28	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 12'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	60" RCP	54	0.35%	17.71		6.19	6.19		-	-	-		SEE SHEETS C2.15 & C4.15
SD29	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL AND FABRIFORM REVETMENT FOR NEW 60" RCP, SKEWED PIPE						6.00			-	-	-	POND SUMP ELEV.=6.0	SEE SHEETS C2.15 & C4.15

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910 CAD\20-SHEETS\C4-31 DRAIN SCH.dwg LAYOUT NAME: C4-31 PLOTTED: Friday, February 26, 2021 - 8:33am USER: Norma.Pressley

DATE	DESCRIPTION	BY	AUTH
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PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>DRAINAGE STRUCTURE AND PIPE DATA SCHEDULE (2)</b>	SHEET NO. <b>C4.31</b>



**DRAINAGE STRUCTURE AND PIPE SCHEDULE**

STRUCTURE NUMBER	STRUCTURE TYPE	PIPE DIAMETER (IN) & MATERIAL	LENGTH (FT)	PIPE SLOPE (%)	GRATE/RIM TOP ELEV.	INVERT ELEV. NORTH	INVERT ELEV. SOUTH	INVERT ELEV. EAST	INVERT ELEV. WEST	WEIRS	ORIFICES	KNOCKOUT WALL FOR FUTURE DEVELOPMENT	COMMENTS	SHEET LOCATION
SD31	NEW GDOT STANDARD INDEX 1019A, DBI TYPE C WITH GRATE, 3'-0" x 3'-0" INSIDE DIMENSIONS	24" RCP	68	0.88%	15.80		12.60	12.60		-	-			SEE SHEETS C2.16 & C4.16
SD32	NEW GDOT STANDARD INDEX 1120 FOR FLARED END SECTION AND RIP-RAP (GDOT D-55A-B) FOR NEW 24" RCP				-		12.00			-	-			SEE SHEETS C2.16 & C4.16
SD34	NEW GDOT STANDARD INDEX 1019A, DBI TYPE C WITH GRATE, 3'-6"x3'-6" INSIDE DIMENSIONS, WITH 6" CURB IN EXISTING PAVEMENT FOR NEW 18" RCP OUT	18" RCP	36	1.53%	17.30		13.40			-	-	-	EXISTING CONCRETE FLUME AND 6" CURB TO BE REMOVED AND NEW INLET TO BE INSTALLED IN EXISTING PAVEMENT WITH NEW 6" CURB AND GUTTER	SEE SHEETS C2.15 & C4.15
SD35	NEW GDOT STANDARD INDEX 1019A, DBI TYPE C WITH GRATE, 3'-6" x 3'-6" INSIDE DIMENSIONS, WITH 6" CURB IN EXISTING PAVEMENT FOR NEW 24" RCP OUT	24" RCP	80	0.44%	16.81	12.85		12.85	12.85	-	-	-	EXISTING CURB INLET AND 6" CURB TO BE REMOVED AND NEW INLET TO BE INSTALLED IN EXISTING PAVEMENT WITH NEW 6" CURB AND GUTTER	SEE SHEETS C2.15 & C4.15
SD35A	NEW GDOT STANDARD INDEX 1120 FOR FLARED END SECTION FOR NEW 24" RCP						12.50							
SD36	NEW GDOT STANDARD INDEX 1019A, DBI TYPE C WITH GRATE, 3'-6" x 3'-6" INSIDE DIMENSIONS, WITH 6" CURB IN EXISTING PAVEMENT FOR NEW 18" RCP OUT	18" RCP	47	1.04%	18.65				8.49	-	-	-	EXISTING CONCRETE FLUME AND 6" CURB TO BE REMOVED AND NEW INLET TO BE INSTALLED IN EXISTING PAVEMENT WITH NEW 6" CURB AND EXISTING GUTTER	SEE SHEETS C2.15 & C4.15
SD37	NEW GDOT STANDARD INDEX 1120 FOR FLARED END SECTION AND FABRIFORM REVETMENT FOR NEW 18" RCP				-			8.00		-	-	-		SEE SHEETS C2.15 & C4.15
X-20A	EXISTING 24" RCP FROM NORTH, EXISTING INVERT INDICATED IS UPSTREAM	EXISTING 24" RCP	179	0.96%		23.88				-	-	-	EXISTING INLET TO BE REMOVED. EXISTING 24" RCP FROM THE NORTH TO BE CONNECTED TO NEW INLET SD20	SEE SHEETS C2.12 & C4.12
SD20	NEW GDOT STANDARD INDEX 1019A, DBI TYPE C WITH GRATE, 5'-0" x 5'-0" INSIDE DIMENSIONS, NEW 48" RCP IN AND OUT, CONNECT EXISTING 24" RCP FROM EAST				25.85	22.16				-	-	-		SEE SHEETS C2.12 & C4.12
X-21A	EXISTING 15" RCP FROM NORTH, EXISTING INVERT INDICATED IS UPSTREAM	EXISTING 15" RCP	42	2.38%	24.26	22.32				-	-	-	INVERT OF EXISTING 15" RCP FROM THE NORTH	SEE SHEETS C2.12 & C4.12
SD21	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 7'-0" ROUND BOTTOM, INSIDE DIMENSION				24.38	21.32				-	-	-	EXISTING STORM DRAIN MANHOLE TO BE REMOVED	SEE SHEETS C2.12 & C4.12
X-27A	EXISTING STORM DRAIN MANHOLE, EXISTING 36" RCP OUT	EXISTING 36" RCP	66	0.45%	18.33			12.08		-	-			SEE SHEETS C2.14 & C4.14
SD27	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH 14'-0" x 20'-0" RECTANGULAR BOTTOM, INSIDE DIMENSION				17.11	6.79	6.79	11.78	11.78	INSIDE WEIR WALL LENGTH = 14'-0" INSIDE WEIR WALL TOP ELEV. = 15.70	-			SEE SHEETS C2.14 & C4.14
SD25A	AREA UNDER CONSTRUCTION, (BY OTHERS) EXISTING 6' x 5' CONCRETE BOX WITH KNOCKOUT FOR NEW 48" RCP OUT ON EAST WALL TO STRUCTURE SD25	48" RCP (W)	132	2.10%	19.50			11.00		-	-	-	AREA UNDER CONSTRUCTION, EXISTING STRUCTURE BY OTHERS. CONTRACTOR TO VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION OF NEW 48" RCP	SEE SHEETS C2.14 & C4.14
SD25	NEW GDOT STANDARD INDEX 1019-A, 4'-0" x 4'-0" TYPE C DROP INLET WITH GRATE AND 8'-0" x 18'-0" RECTANGULAR BOTTOM, INSIDE DIMENSIONS	14" x 23" ERCP	51	0.98%	16.50	8.23	8.23	13.00	8.23	INSIDE WEIR WALL LENGTH = 4'-0" INSIDE WEIR WALL TOP ELEV. = 13.40	-	-		SEE SHEETS C2.14 & C4.14
SD25B	NEW GDOT STANDARD INDEX 1120 FOR FLARED END SECTION FOR NEW 24" x 38" ERCP							12.50		-	-	-		SEE SHEETS C2.14 & C4.14

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\900-Work\910 CAD\20-SHEETS\C4-32 DRAIN SCH.dwg LAYOUT NAME: C4-32 PLOTTED: Friday, February 26, 2021 - 8:33am USER: Norma.Pressley

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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>DRAINAGE STRUCTURE AND PIPE DATA SCHEDULE (3)</b>	SHEET NO. <b>C4.32</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910 CAD\20-SHEETS\C4-33 DRAIN SCH.dwg PLOTTED: Friday, February 26, 2021 - 8:33am USER: Norma.Pressley

**DRAINAGE STRUCTURE AND PIPE SCHEDULE**

STRUCTURE NUMBER	STRUCTURE TYPE	PIPE DIAMETER (IN) & MATERIAL	LENGTH (FT)	PIPE SLOPE (%)	GRATE/RIM TOP ELEV.	INVERT ELEV. NORTH	INVERT ELEV. SOUTH	INVERT ELEV. EAST	INVERT ELEV. WEST	WEIRS	ORIFICES	KNOCKOUT WALL FOR FUTURE DEVELOPMENT	COMMENTS	SHEET LOCATION
SD45	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL AND FABRIFORM REVETMENT AT NEW WEST DETENTION POND FOR NEW DOUBLE (2) 48" RCP IN NORTH.	(2) 48" RCP	233	0.52%			11.00			-	-			SEE SHEETS C2.19 & C4.19
SD44	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH RECTANGULAR BOTTOM, 8'-0" x 20'-0" INSIDE DIMENSION	(2) 38"x60" ERCP	89	0.34%	23.00	12.20	12.20			-	-	-		SEE SHEETS C2.20 & C4.20
SD43	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH RECTANGULAR BOTTOM, 6'-0" x 20'-0" INSIDE DIMENSION	(2) 48" RCP	450	0.46%	24.75	12.50	12.50			-	-	-		SEE SHEETS C2.20 & C4.20
SD42	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH RECTANGULAR BOTTOM, 6'-0" x 20'-0" INSIDE DIMENSION	(2) 38"x60" RCP	470	0.50%	25.58	14.57	14.57			-	-	-		SEE SHEETS C2.20 & C4.20
SD41	NEW GDOT STANDARD INDEX 1019-A, 6'-0" x 6'-0" INSIDE DIMENSION TYPE C DROP INLET WITH GRATE AND 6'-0" x 20'-0" RECTANGULAR BOTTOM, INSIDE DIMENSION	(2) 38"x60" ERCP	111	0.46%	21.80	16.90	16.90			-	-	-		SEE SHEETS C2.21 & C4.21
SD40	NEW GDOT STANDARD INDEX 1011-A CONCRETE MANHOLE WITH COVER, 18'-0" x 18'-0" INSIDE DIMENSION SQUARE BOTTOM. EXISTING (2) 38" x 60" ERCP IN NORTH AND NEW (2) 38" x 60" ERCP OUT WEST NEW 18" RCP OUT SOUTH	18" RCP	22	2.27%	23.50	17.41	18.00	17.30		-	-	-	EXISTING DOUBLE 38"x60" MITERED END SECTION TO BE REMOVED AND NEW STRUCTURE SD40 INSTALLED	SEE SHEETS C2.21 & C4.21
SD40A	NEW GDOT STANDARD INDEX 1120 FOR FLARED END SECTION FOR NEW 18" RCP				-		17.50			-	-			SEE SHEETS C2.21 & C4.21
X-44A	EXISTING HEADWALL	EXISTING 42" RCP	65	1.66%	23.47			18.97		-	-	-	EXISTING HEADWALL TO REMAIN IS LOCATED ON NORTHWEST SIDE OF HEADQUARTERS ROAD. EXISTING INLET AT LOCATION OF NEW STRUCTURE SD44 TO BE REMOVED AND A PORTION OF EXISTING 42" RCP TO BE REMOVED. EXISTING 42" TO BE CONNECTED TO NEW STRUCTURE SD44.	SEE SHEETS C2.20 & C4.20
SD44	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, WITH RECTANGULAR BOTTOM, 8'-0" x 20'-0" INSIDE DIMENSION				23.00	12.20	12.20	17.89		-	-	-	CONTRACTOR TO INSTALL A 6" THICK, 18" WIDE CONCRETE APRON AROUND INLET. INVERT INDICATED IS THE EXISTING 42" RCP ENTRANCE INTO NEW STRUCTURE SD44	SEE SHEETS C2.20 & C4.20
X50A	EXISTING STROM DRAIN ENDWALL	EXISTING 48" RCP	22	0.91%	23.00			17.45		-	-			SEE SHEETS C2.19 & C4.19
SD50	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, 5'-10" x 5'-10" RECTANGULAR BOTTOM, EXISTING 48" RCP IN NORTHWEST (SD50 DROP MANHOLE - SEE BELOW FOR CONTINUATION)				22.64			17.25		-	-		EXISTING HEADWALL TO REMAIN IS LOCATED ON NORTHWEST SIDE OF NEW DROP MANHOLE SD50 (INVERT IN)	SEE SHEETS C2.19 & C4.19
SD50	NEW GDOT STANDARD INDEX 1011-A, CONCRETE MANHOLE WITH COVER, 5'-10" x 5'-10" RECTANGULAR BOTTOM, NEW 48" RCP OUT SOUTHEAST (SD50 DROP MANHOLE - SEE ABOVE)	48" RCP	29	0.86%	22.64			11.25		-	-		NEW DROP MANHOLE SD50 (INVERT OUT)	SEE SHEETS C2.19 & C4.19
SD51	NEW GDOT STANDARD INDEX 1001-B, PIPE CULVERT CONCRETE ENDWALL AND FABRIFORM REVETMENT AT NEW WEST DETENTION POND FOR NEW 48" RCP				16.00			11.00		-	-			SEE SHEETS C2.19 & C4.19

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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>DRAINAGE STRUCTURE AND PIPE DATA SCHEDULE (4)</b>	SHEET NO. <b>C4.33</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910 CAD\20-SHEETS\C4-30-34 DRAIN SCH.dwg LAYOUT NAME: C4-34 DRAIN SCH.dwg PLOTTED: Friday, February 26, 2021 - 8:33am USER: Norma.Pressley

CONCRETE COLLAR PIPE SCHEDULE

STRUCURE NUMBER	CONCRETE COLLAR FOR REINFORCED CONCRETE PIPE (RCP) EXTENSION TO NEW STORM DRAIN STRUCTURE	PIPE DIAMETER (IN) & MATERIAL	LENGTH (FT)	SHEET LOCATION
CC10 TO SD10	NEW CONCRETE COLLAR FOR NORTH CONNECTION OF EXISTING 48" RCP TO NEW 48" RCP EXTENSION	48" RCP	8	SEE SHEETS C2.11 & C4.11
CC10A TO SD10	NEW CONCRETE COLLAR FOR SOUTH CONNECTION OF EXISTING 48" RCP TO NEW 48" RCP EXTENSION	48" RCP	8	SEE SHEETS C2.11 & C4.11
CC12A TO SD12A	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 18" RCP TO NEW 18" RCP EXTENSION	18" RCP	8	SEE SHEETS C2.11 & C4.11
CC20 TO SD20	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 24" RCP TO NEW 24" RCP EXTENSION	24" RCP	8	SEE SHEETS C2.12 & C4.12
CC21 TO SD21	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 15" RCP TO NEW 15" RCP EXTENSION	15" RCP	8	SEE SHEETS C2.12 & C4.12
CC27A TO SD27	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 36" RCP TO NEW 36" RCP EXTENSION	36" RCP	8	SEE SHEETS C2.14 & C4.14
CC27B TO SD27	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 36" RCP TO NEW 36" RCP EXTENSION	36" RCP	8	SEE SHEETS C2.14 & C4.14
CC35A TO SD35	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 24" RCP TO NEW 24" RCP EXTENSION	24" RCP	8	SEE SHEETS C2.15 & C4.15
CC44 TO SD44	NEW CONCRETE COLLAR FOR CONNECTION OF EXISTING 42" RCP TO NEW 42" RCP EXTENSION	42" RCP	8	SEE SHEETS C2.19 & C4.19

DATE	DESCRIPTION	BY	AUTH
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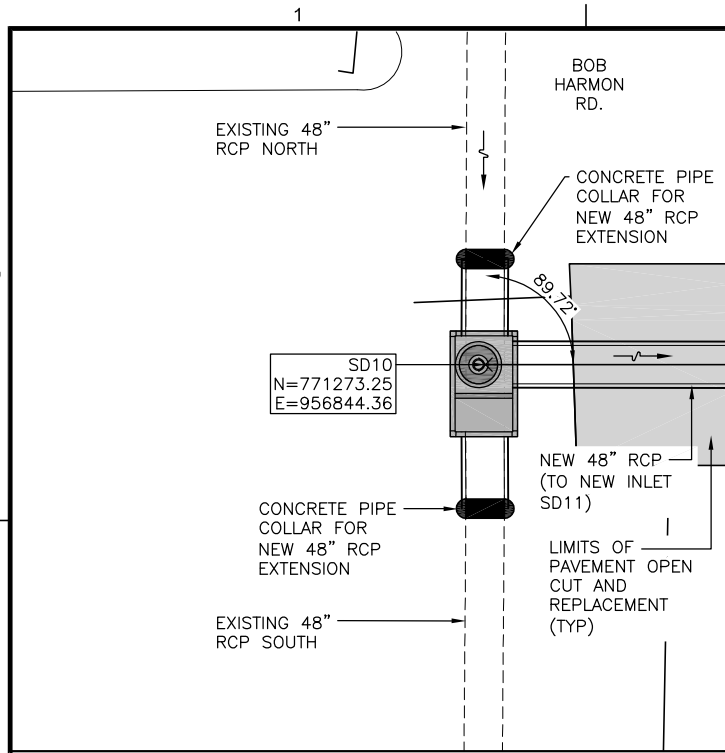


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PROJECT NO.	60611019
DATE:	MARCH, 2021

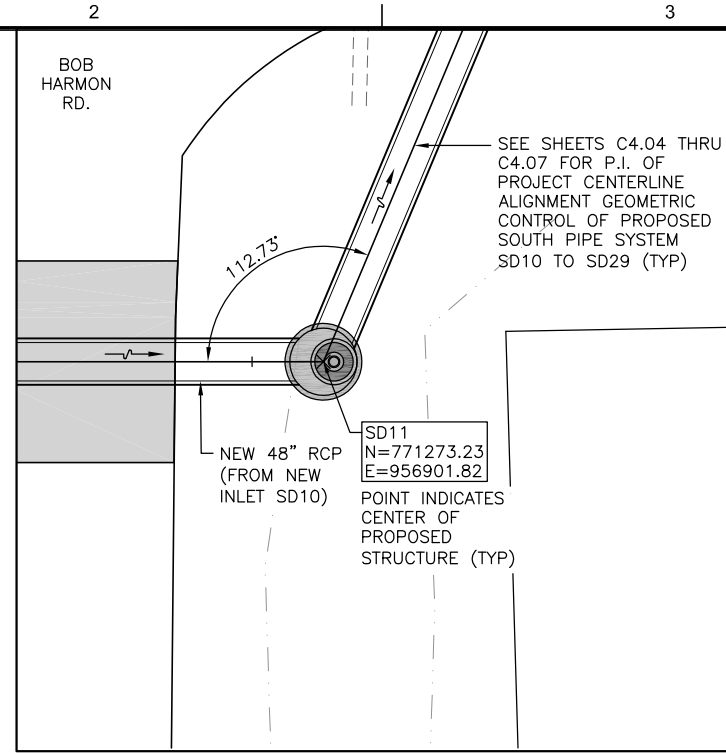
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>DRAINAGE STRUCTURE AND PIPE DATA SCHEDULE (5)</b>	SHEET NO. <b>C4.34</b>



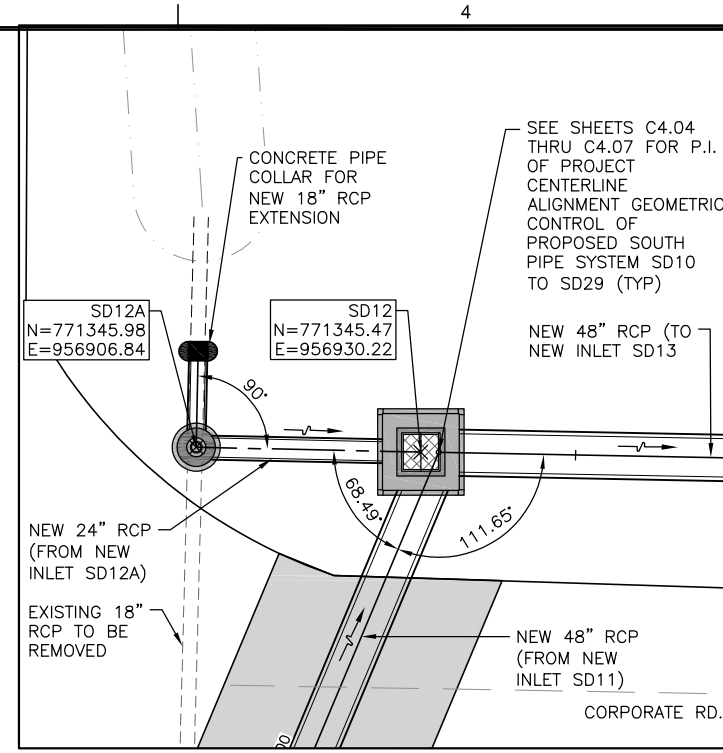
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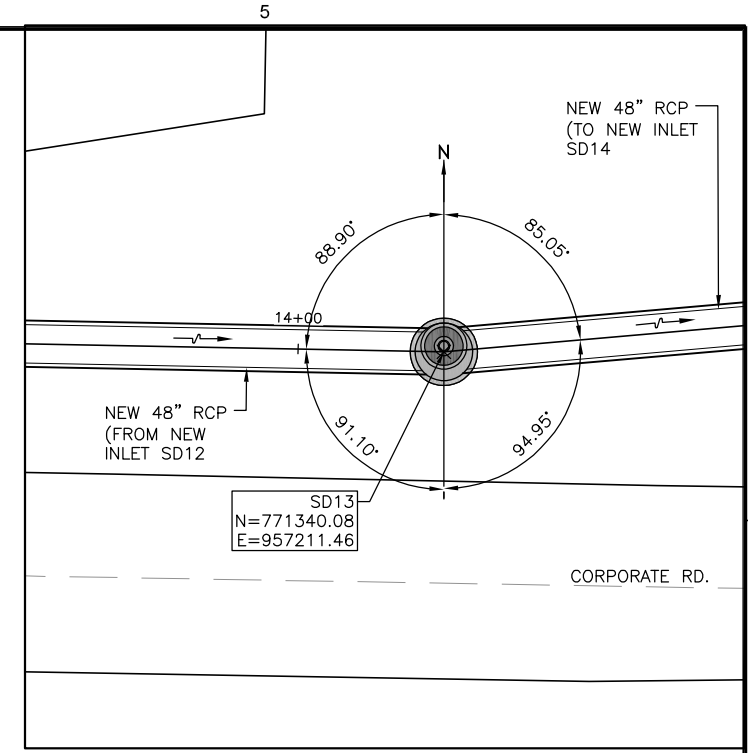
**STRUCTURE SD10**



**STRUCTURE SD11**

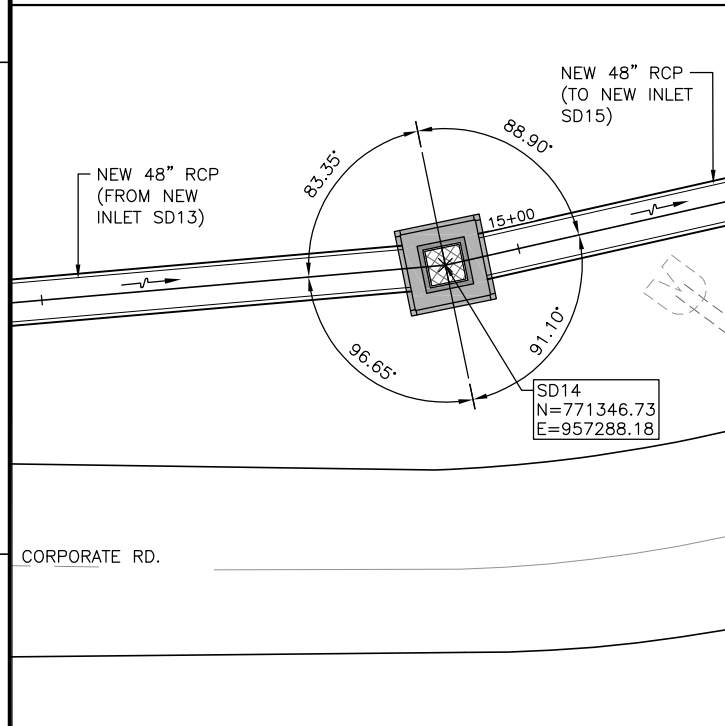


**STRUCTURE SD12 AND SD12A**

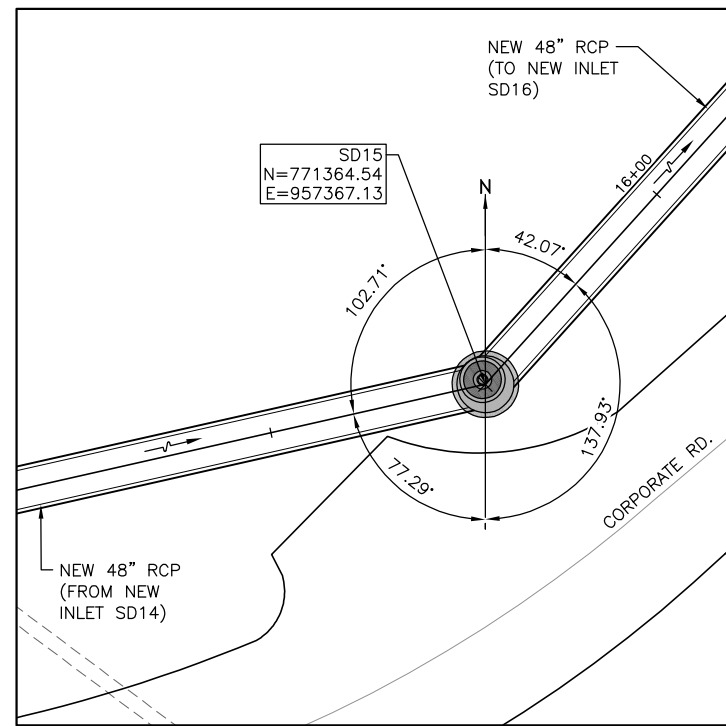


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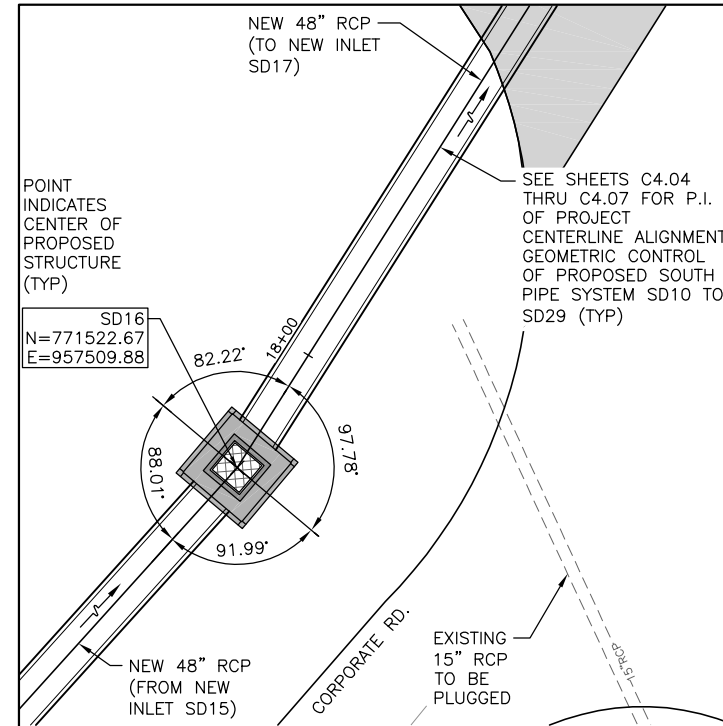
NOTE:  
SEE SHEET C4.37 FOR GENERAL NOTES.



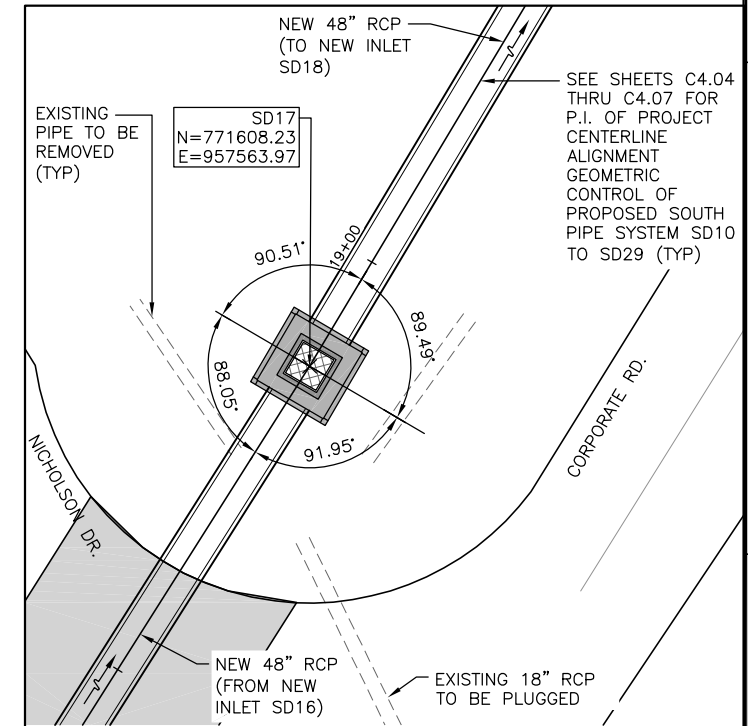
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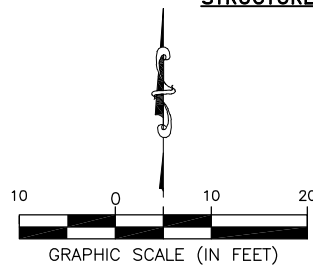
**STRUCTURE SD15**



**STRUCTURE SD16**



**STRUCTURE SD17**



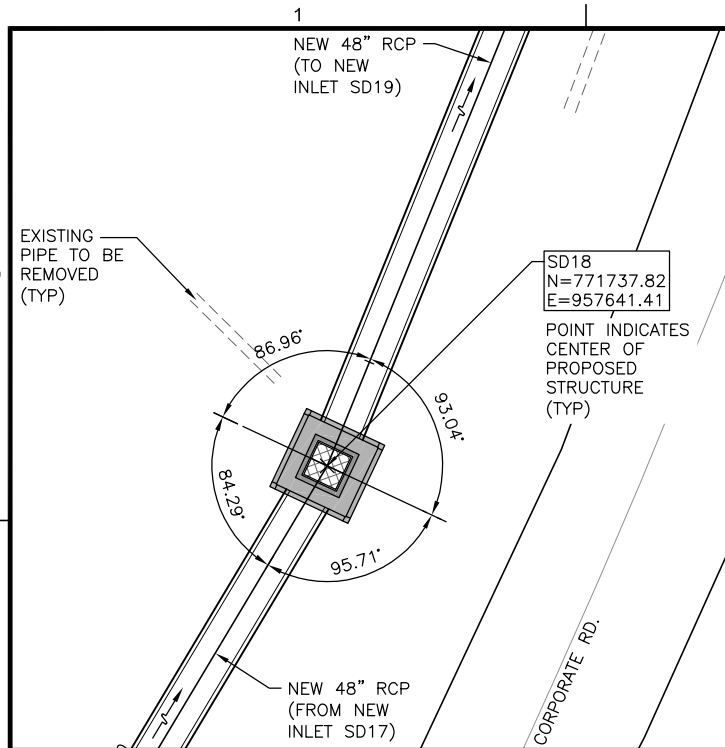
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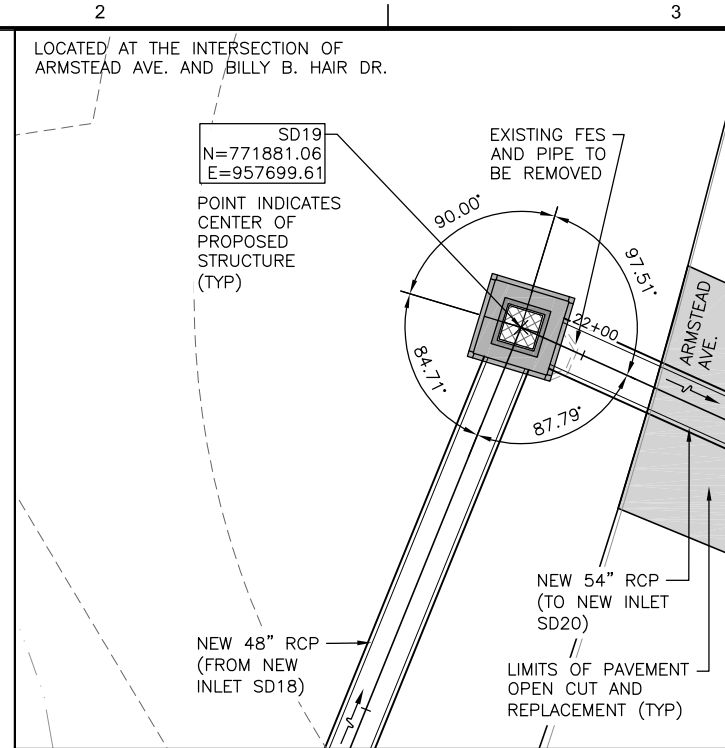
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>MANHOLE OR INLET PIPE DETAIL (1)</b>	<b>C4.35</b>

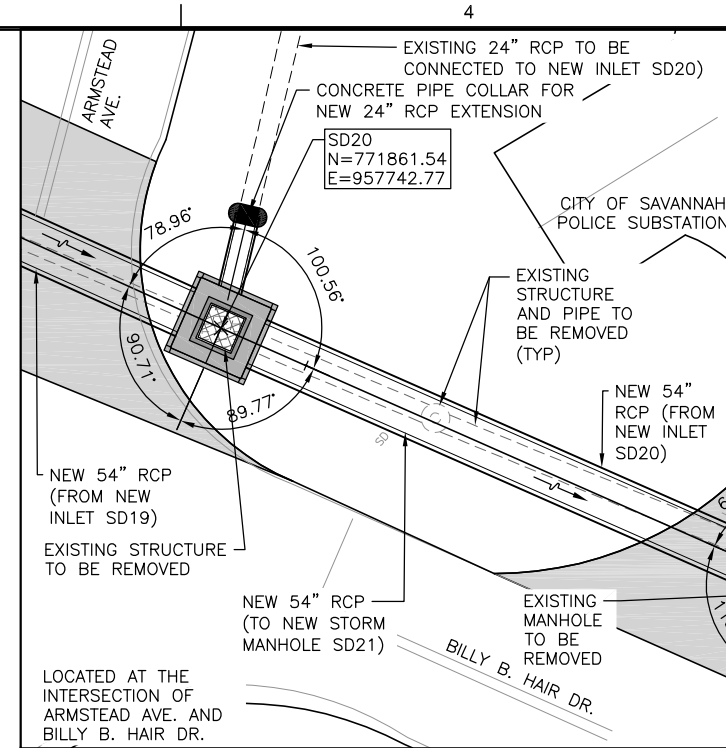
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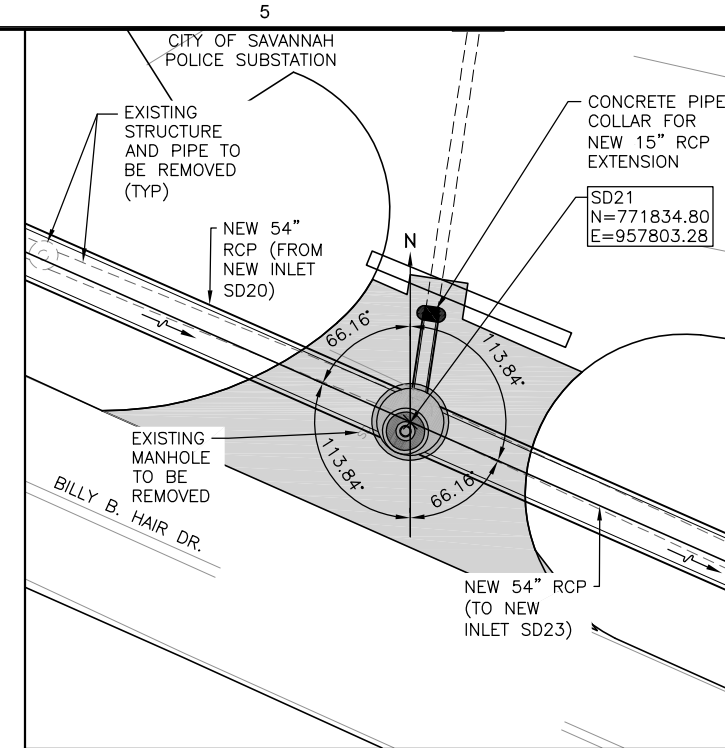
**STRUCTURE SD18**



**STRUCTURE SD19**

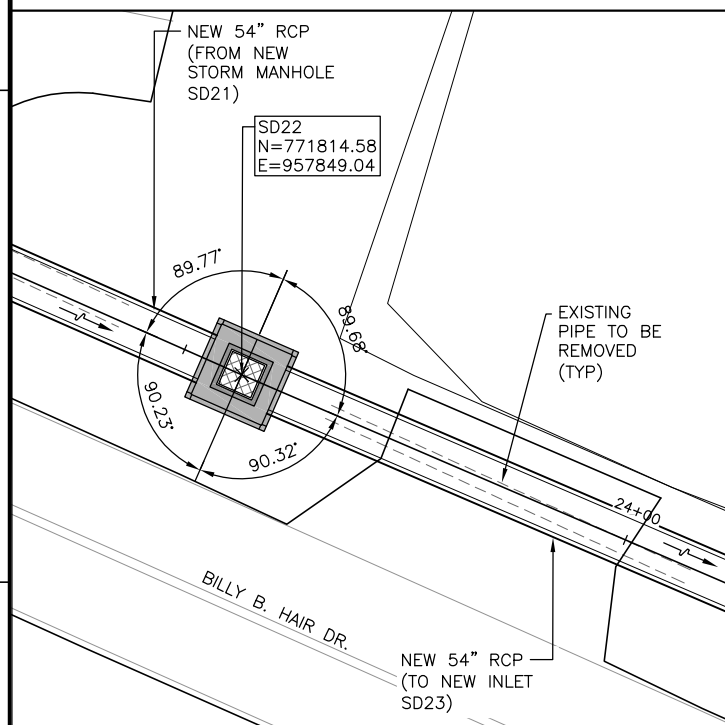


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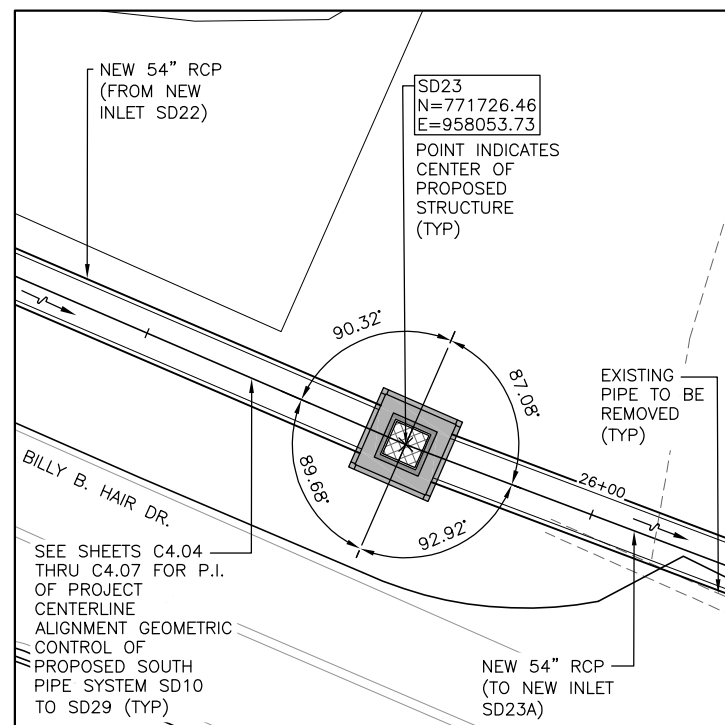


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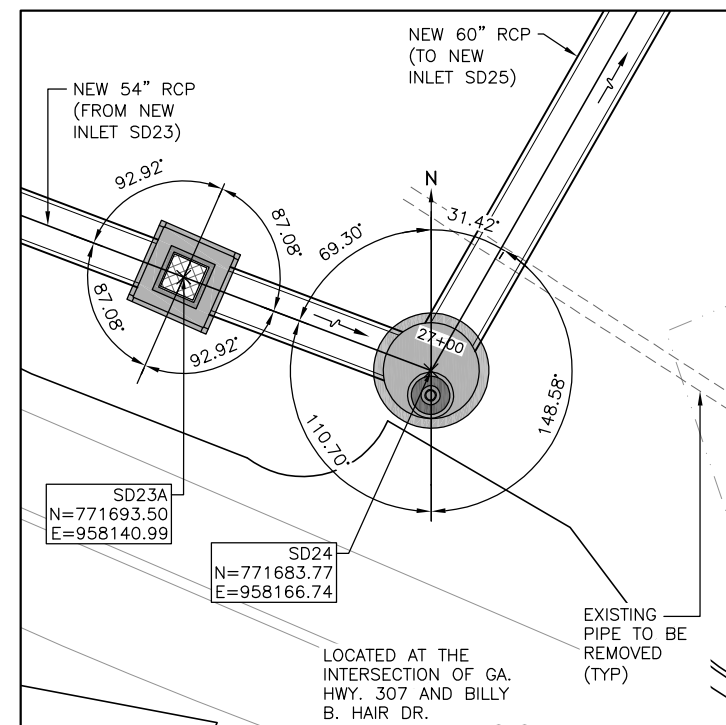
NOTE:  
SEE SHEET C4.37 FOR GENERAL NOTES.



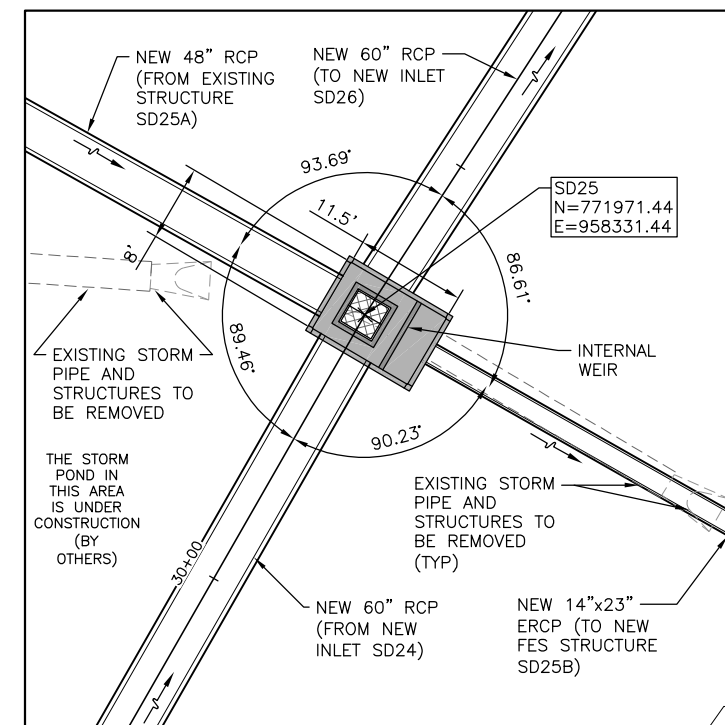
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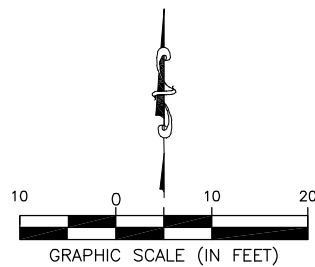
**STRUCTURE SD23**



**STRUCTURE SD23A AND SD24**



**STRUCTURE SD25**



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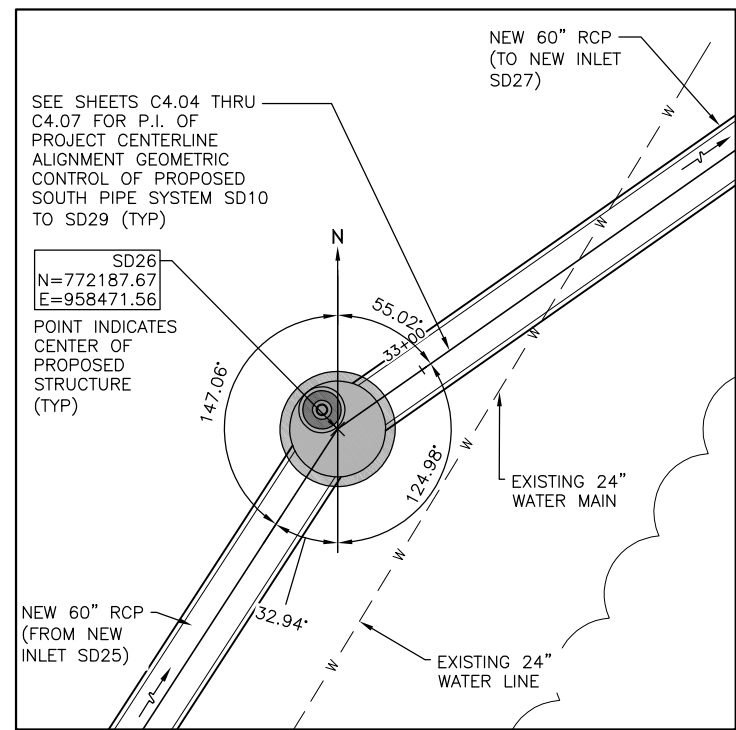


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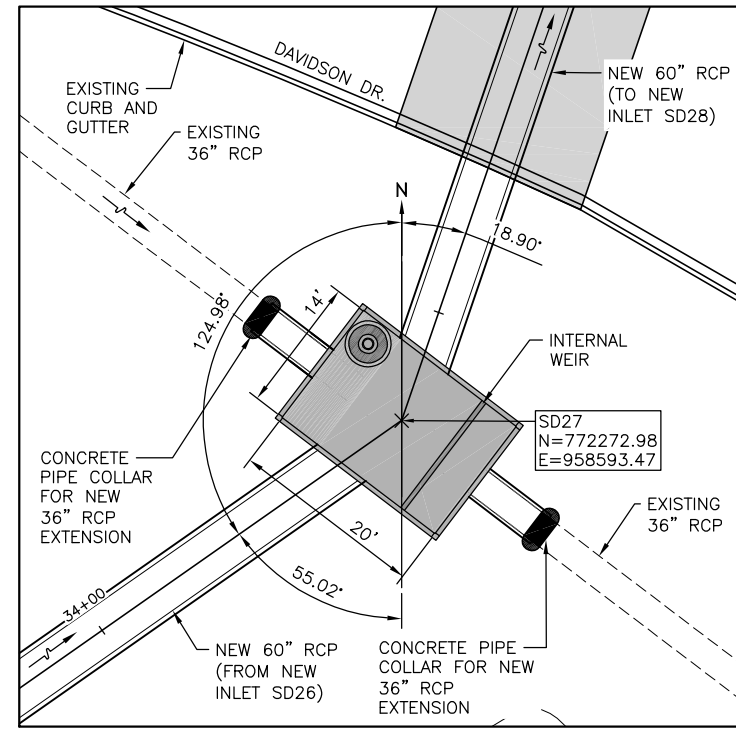
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>MANHOLE OR INLET PIPE DETAIL (2)</b>	<b>C4.36</b>



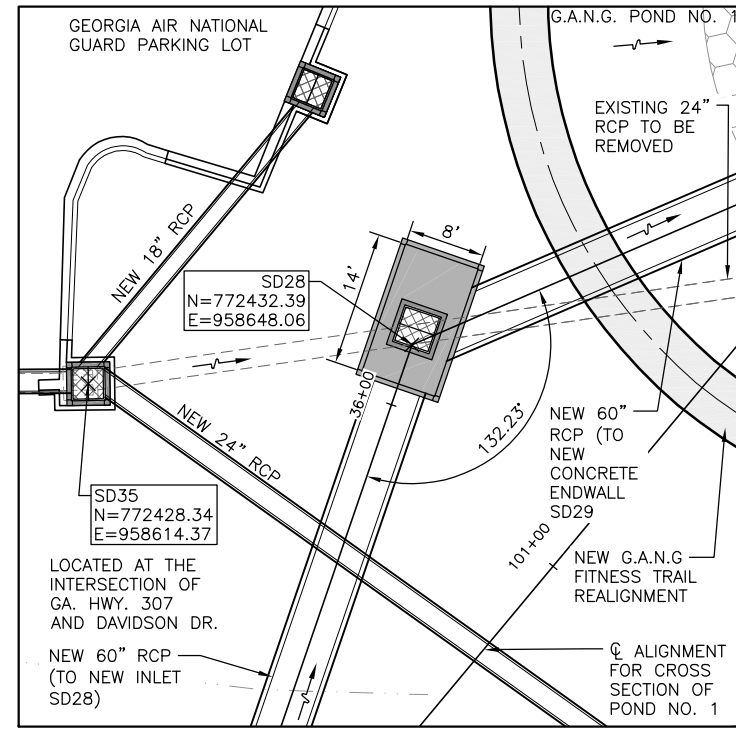
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**STRUCTURE SD26**



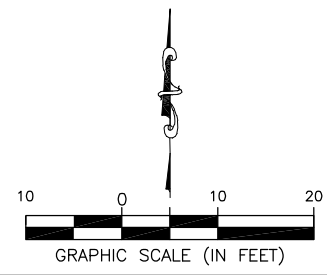
**STRUCTURE SD27**



**STRUCTURE SD28**

**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
4. SEE SHEETS C4.35 THRU C4.38 FOR THE CENTER POINT OF THE STRUCTURES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.



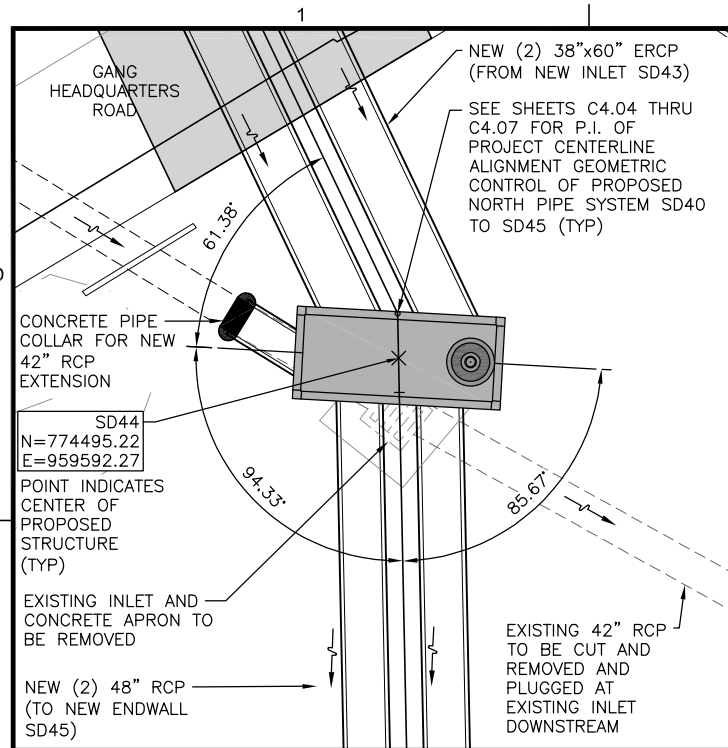
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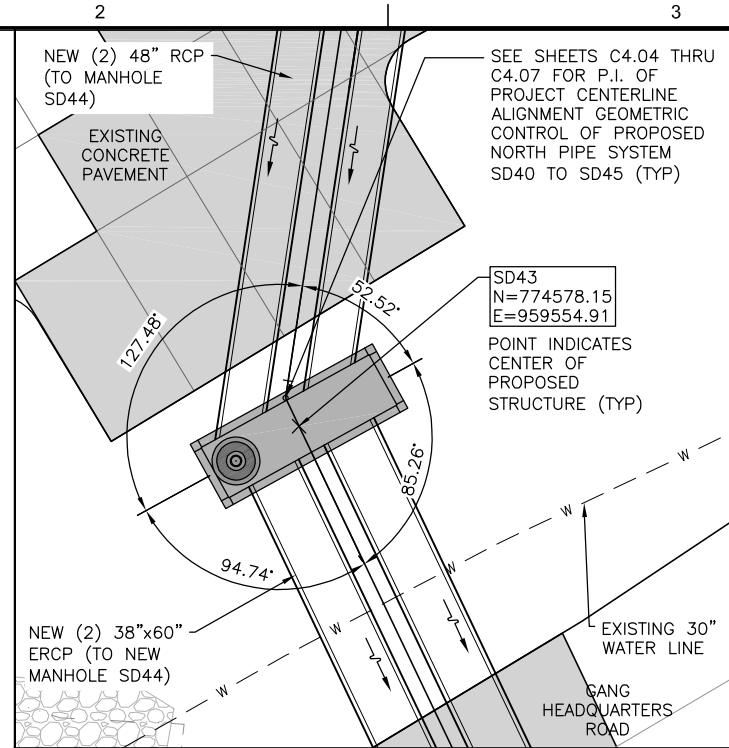
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>MANHOLE OR INLET PIPE DETAIL (3)</b>	<b>C4.37</b>

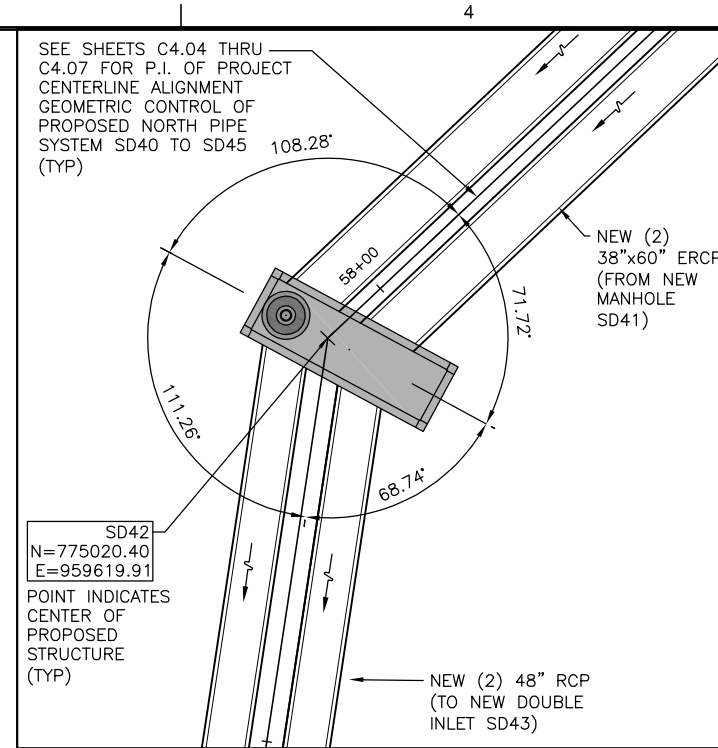
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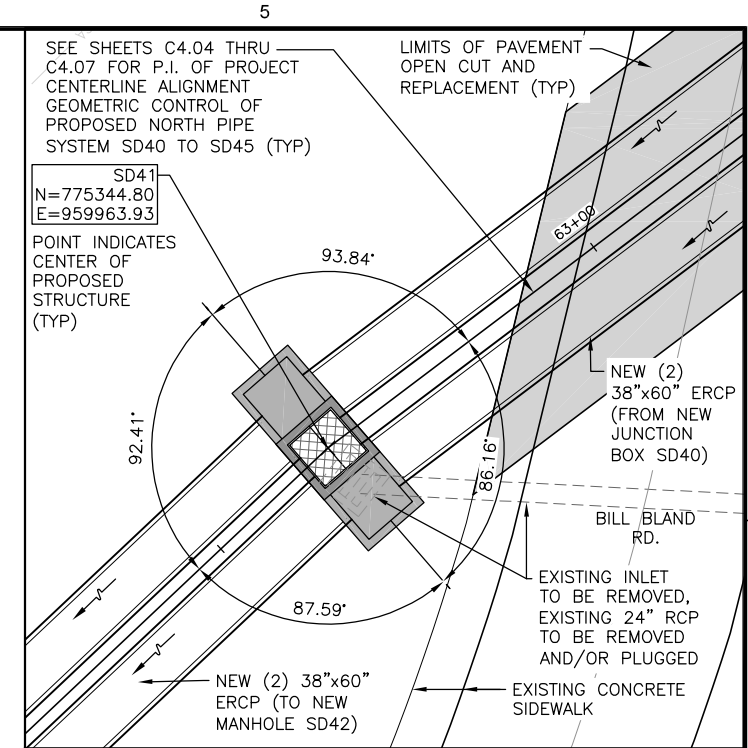
**STRUCTURE SD44**



**STRUCTURE SD43**



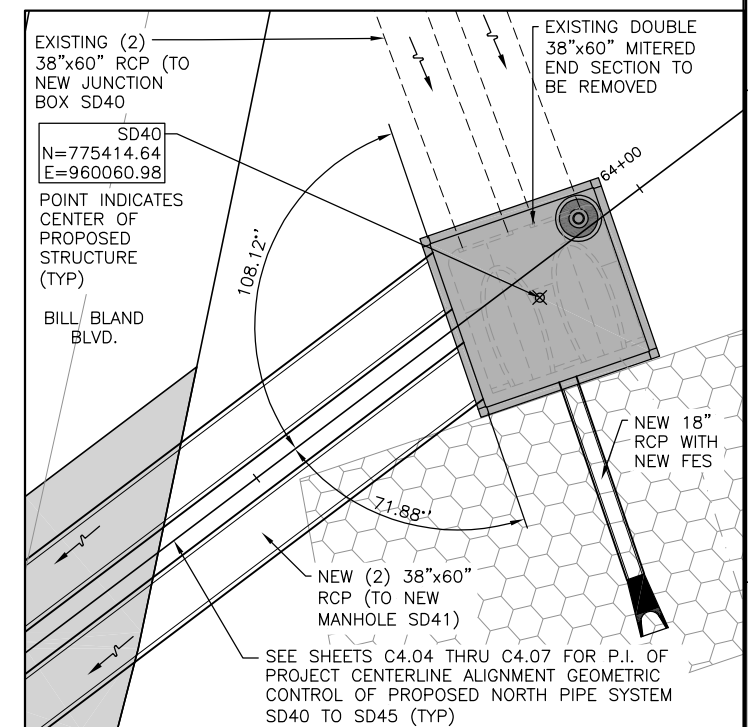
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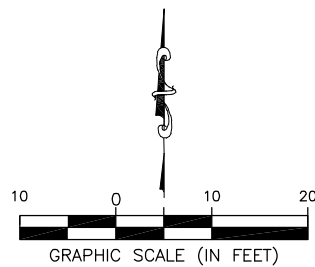
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**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THE P.I. STATIONS INDICATED ON SHEETS C4.04 THRU C4.07 FOR THE PIPE ALIGNMENTS MAY OR MAY NOT BE THE CENTER OF THE PROPOSED DRAINAGE STRUCTURE. THE P.I. STATIONS, NORTHING AND EASTING COORDINATES INDICATED ON SHEETS C4.04 THRU C4.07 ARE GEOMETRIC CONTROL FOR THE PIPE ALIGNMENT DIRECTIONAL CHANGES.
4. SEE SHEETS C4.35 THRU C4.38 FOR THE CENTER POINT OF THE STRUCTURES.
5. SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.



**STRUCTURE SD40**



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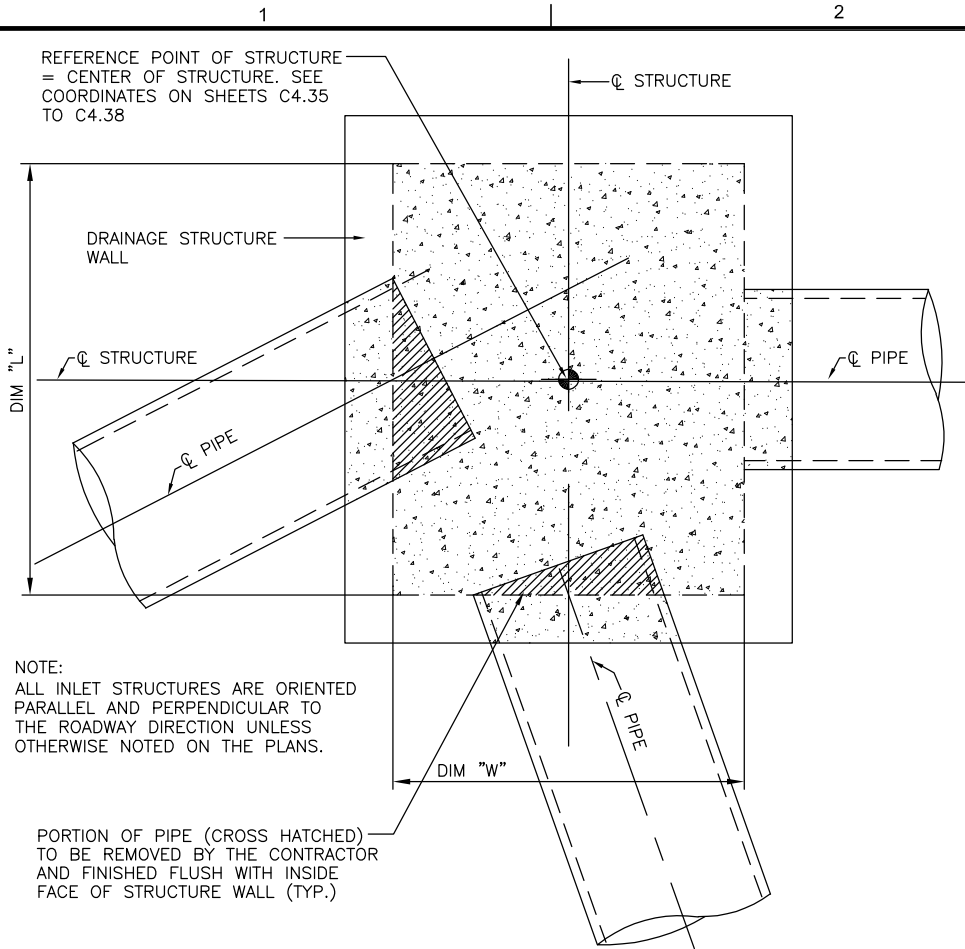


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<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>MANHOLE OR INLET PIPE DETAIL (4)</b>	<b>C4.38</b>



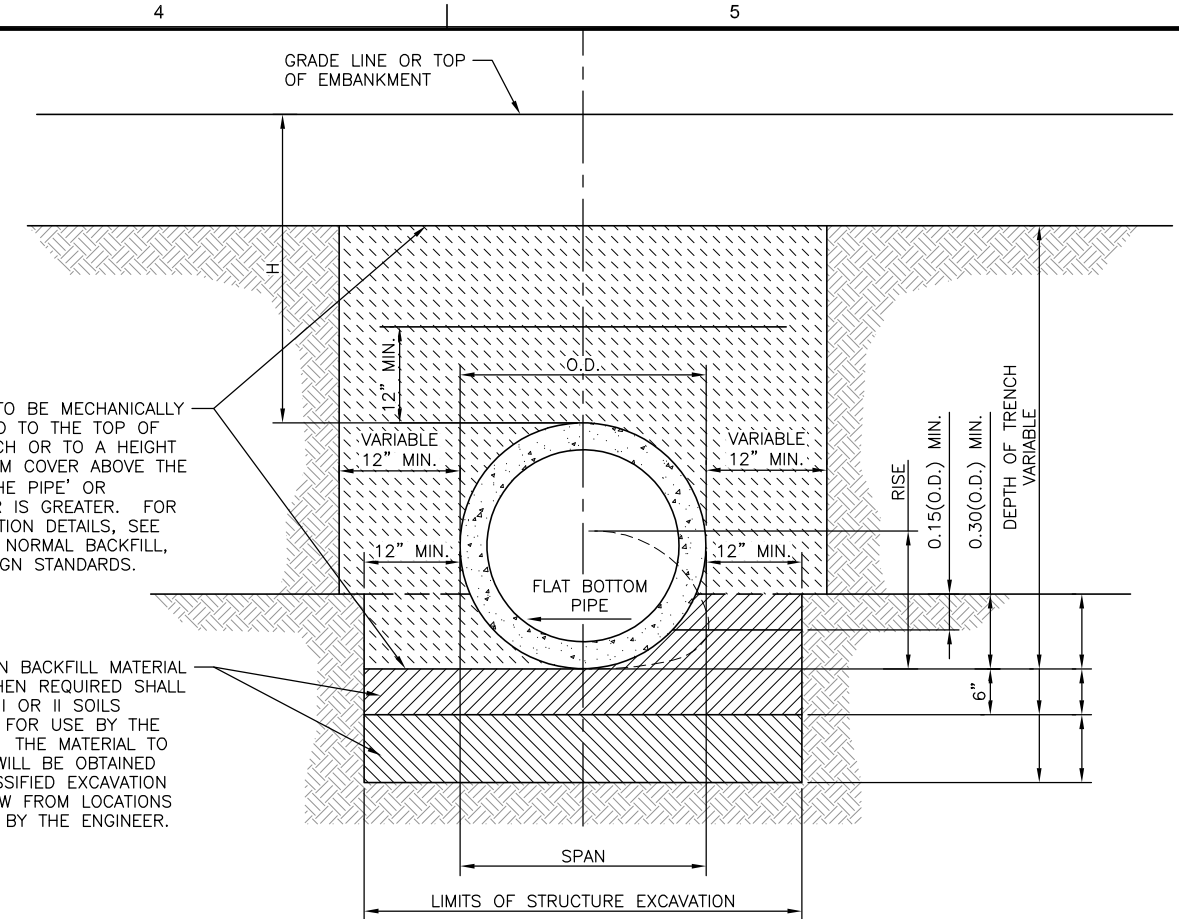
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**TYPICAL STRUCTURE REFERENCE POINT DETAIL**  
N.T.S.

**DRAINAGE STRUCTURE AND PIPE NOTES:**

1. THE CONTRACTOR SHALL FOLLOW ALL SPECIFICATIONS AND GUIDELINES AS ESTABLISHED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD INDEX AND SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION OF ALL NEW STORM DRAINAGE SYSTEMS.
2. ALL STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH GDOT STANDARD INDEX NO. 1401.
3. ALL NEW GDOT INLETS WILL BE CONSTRUCTED IN ACCORDANCE WITH GDOT STANDARD INDEX 1019A AND 1019B.
4. ALL NEW GDOT HEADWALLS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE GDOT STANDARD INDEX NO. 1001-B.
5. ALL RIPRAP OUTLET PROTECTION SHALL BE CONSTRUCTED USING FABRI-FORM REVETMENT AS INDICATED IN THE EROSION CONTROL DETAILS AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC), 2016 EDITION OR LATER.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE ACCORDING TO THE LATEST MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC).
7. PRIOR TO PIPE INSTALLATION, THE CONTRACTOR SHALL FIRST ESTABLISH COMPACTED EMBANKMENT TO A MINIMUM ELEVATION OF 12" ABOVE THE CROWN OF THE EXPOSED PIPE. THE CONTRACTOR SHALL THEN EXCAVATE PIPE TRENCH TO A MINIMUM ELEVATION OF 6" BELOW THE BOTTOM OF THE PIPE, INSTALL PIPE, BEDDING AND AND BACKFILL IN 6" LIFTS TO A MINIMUM OF 12" ABOVE THE CROWN OF THE PIPE. CONTRACTOR SHALL FOLLOW THE GUIDELINES OF GDOT STANDARD INDEX 1030D FOR FILL HEIGHTS OF CONCRETE PIPE.
8. EXCAVATION IN EXCESS OF 6" SHALL BE BACKFILLED WITH CRUSHED STONE UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF STRUCTURES PRIOR TO INSTALLING FOR FORMING.
10. THE REFERENCE POINT FOR INLETS AND MANHOLES SHALL BE THE CENTER OF THE STRUCTURE. THIS CENTER POINT MAY OR MAY NOT BE THE EXTENDED CENTERLINE OF THE NEW PIPES.
11. PLACE MINIMUM 12" DEPTH OF CRUSHED STONE AGGREGATE UNDER ALL INLET AND MANHOLE STRUCTURES. AGGREGATE SHALL BE NO. 57 CRUSHED STONE.
12. WRAP ALL PIPE JOINTS IN ACCORDANCE WITH DETAIL ON SHEET C4.42.
13. PIPE TRENCHING AND BEDDING SHALL BE IN ACCORDANCE WITH DETAIL THIS SHEET, GDOT STANDARD INDEX 1030D.



**TRENCH CONSTRUCTION FOR STORM DRAIN - GDOT 1030D**  
N.T.S.

**STORM DRAIN TRENCH CONSTRUCTION NOTES:**

1. FOR EXCAVATION FOR PIPE-ARCH CULVERTS SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN THIS DETAIL.
2. PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.
3. BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.
4. TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. REFER TO GDOT DESIGN STANDARDS 1030D FOR ADDITIONAL INFORMATION.
5. FOR FILL HEIGHT TABLES, SEE SHEET 2 AND 3 OF GDOT DESIGN STANDARDS 1030D.
6. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

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MAR. 2021	BID DOCUMENTS	APD	RWP

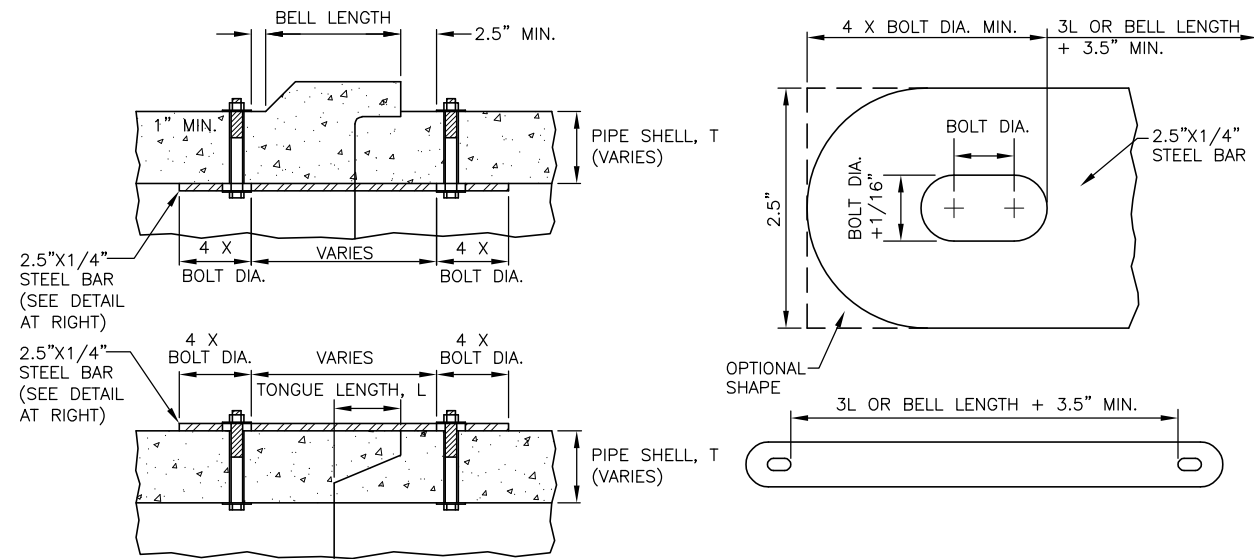


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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>DRAINAGE DETAILS (1)</b>	<b>C4.41</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission Airport Commission\900-Work\910 CAD\20-SHEETS\C4-41-C4-42 DR DTL.dwg LAYOUT NAME: C4-42 PLOTTED: Friday, February 26, 2021 - 8:34am USER: Norma.Presley

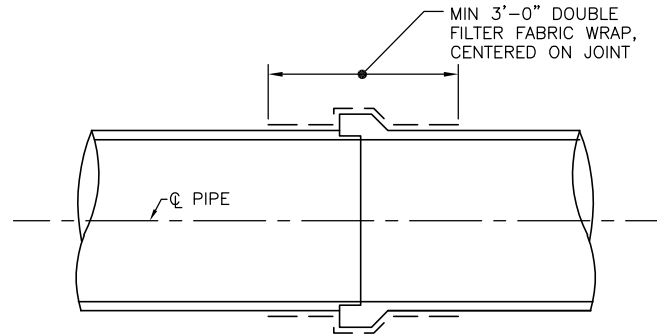


**CONCRETE PIPE CONNECTOR NOTES:**

1. ALL BARS, BOLTS, NUTS, AND WASHERS ARE TO BE GALVANIZED STEEL. BOLT DIAMETERS SHALL BE 3/8" FOR 15" TO 36" PIPE AND 5/8" FOR 42" TO 60" PIPE. TWO CONNECTORS REQUIRED PER JOINT, LOCATED 60" RIGHT AND LEFT OF BOTTOM CENTER OF PIPE. BOLT HOLES IN PIPE SHELL ARE TO BE DRILLED.
2. WRAP THE PIPE JOINT WITH FILTER FABRIC AS SPECIFIED ON THE PIPE JOINT WRAP DETAIL SHOWN ON THE SHEET PRIOR TO INSTALLING THE GALVANIZED BARS.

**CONCRETE PIPE CONNECTOR DETAIL**

N.T.S.

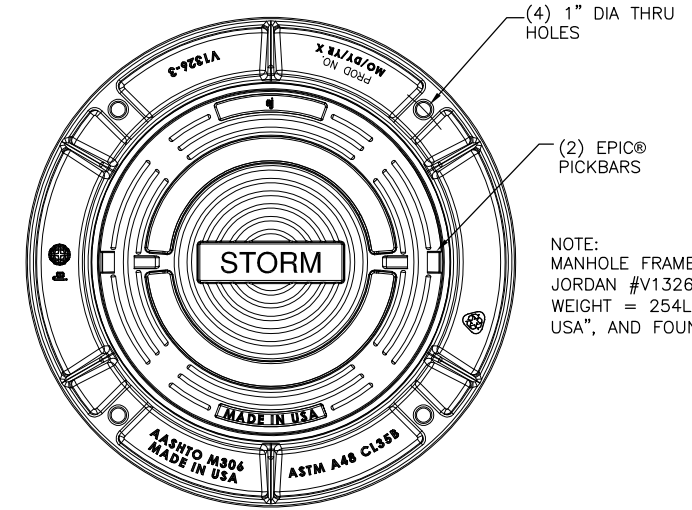


**PIPE JOINT WRAP DETAIL**

N.T.S.

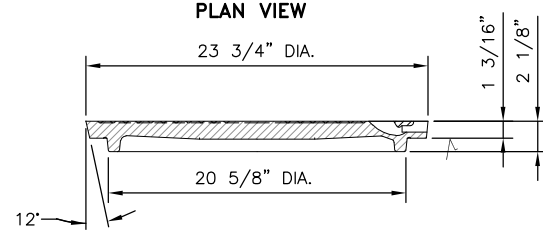
**JOINT WRAP NOTES:**

1. PROVIDE DOUBLE FILTER FABRIC WRAPS AT ALL STORM WATER PIPE JOINTS, PER CITY OF SAVANNAH STANDARD SPECIFICATION 02400.
2. KEEP FILTER FABRIC SNUG TO PIPE AND BELLS.
3. PROVIDE MINIMUM 18" FABRIC OVERLAP AT TOP OF PIPE.
4. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
5. FILTER FABRIC SHALL BE SECURED BY STRAPS OR OTHER METHOD APPROVED BY THE MANUFACTURER.

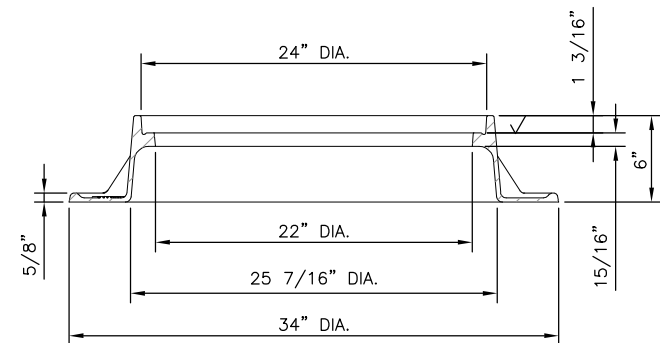


NOTE: MANHOLE FRAME AND COVER: EAST JORDAN #V1326-3/V1327 OR EQUAL. WEIGHT = 254LBS. "STORM", "MADE IN USA", AND FOUNDRY STAMP

**PLAN VIEW**



**COVER SECTION**



**FRAME SECTION**

**CITY OF SAVANNAH  
MANHOLE COVER & FRAME DETAIL**

DATE	DESCRIPTION	BY	AUTH
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PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE

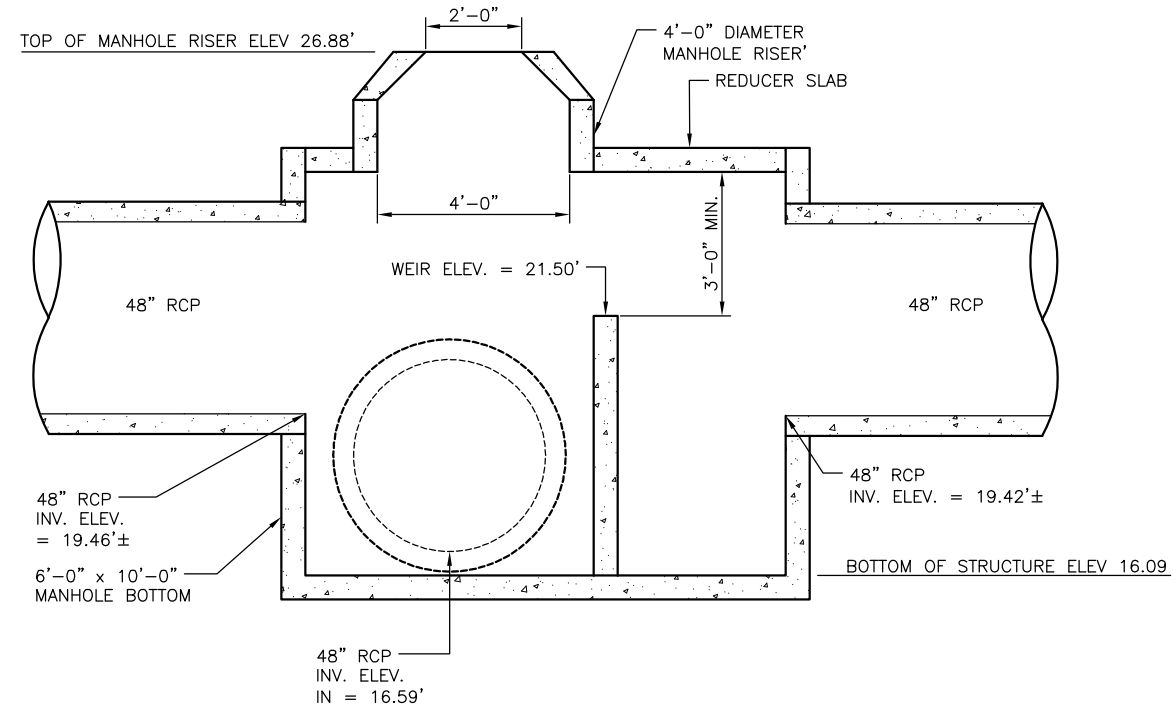
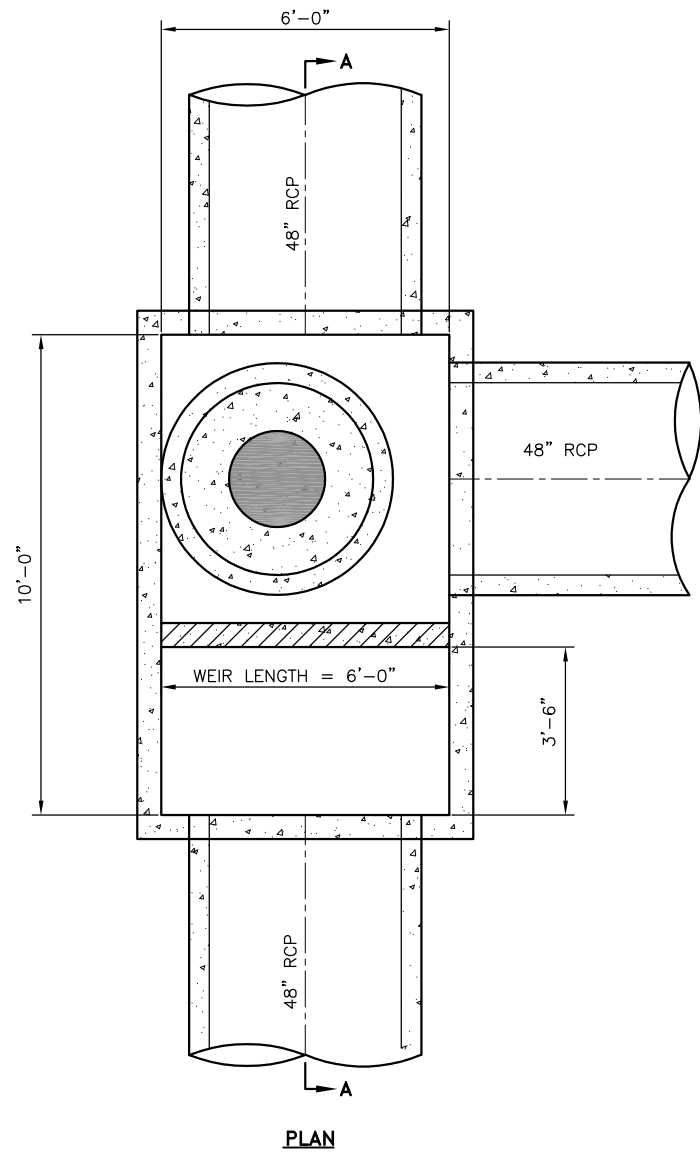
**DRAINAGE DETAILS (2)**

SHEET NO.

**C4.42**



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SECTION A-A

**INLET STRUCTURE SD10 WITH WEIR**  
N.T.S.

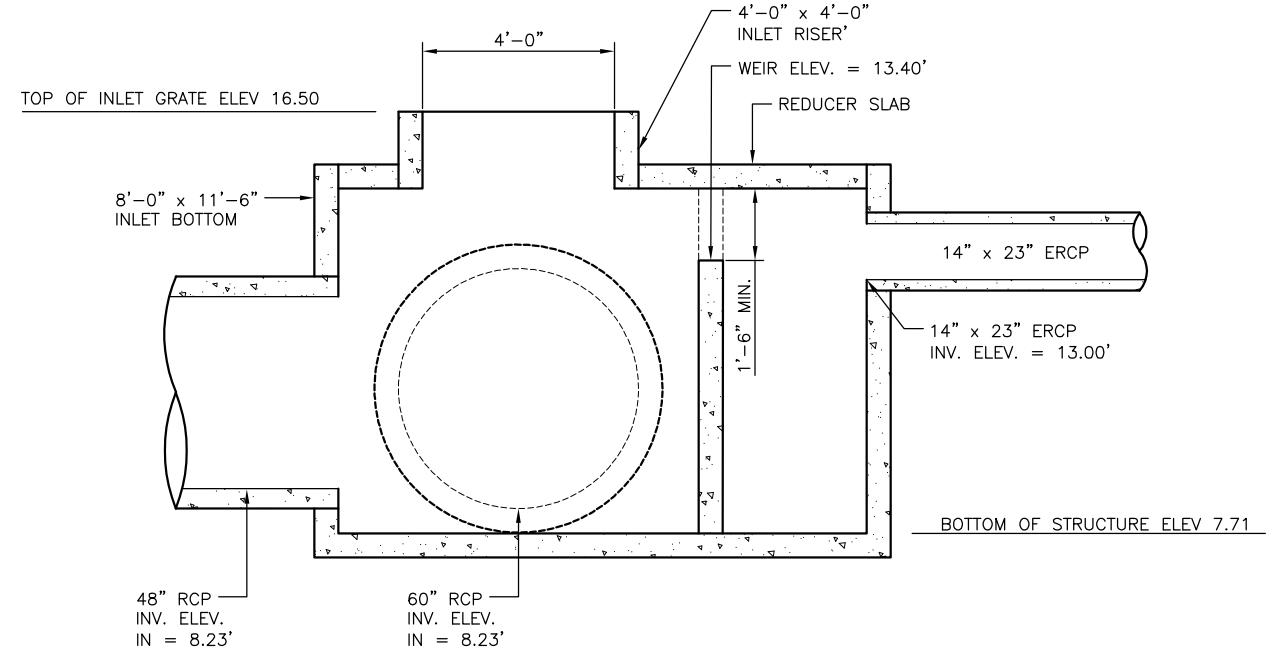
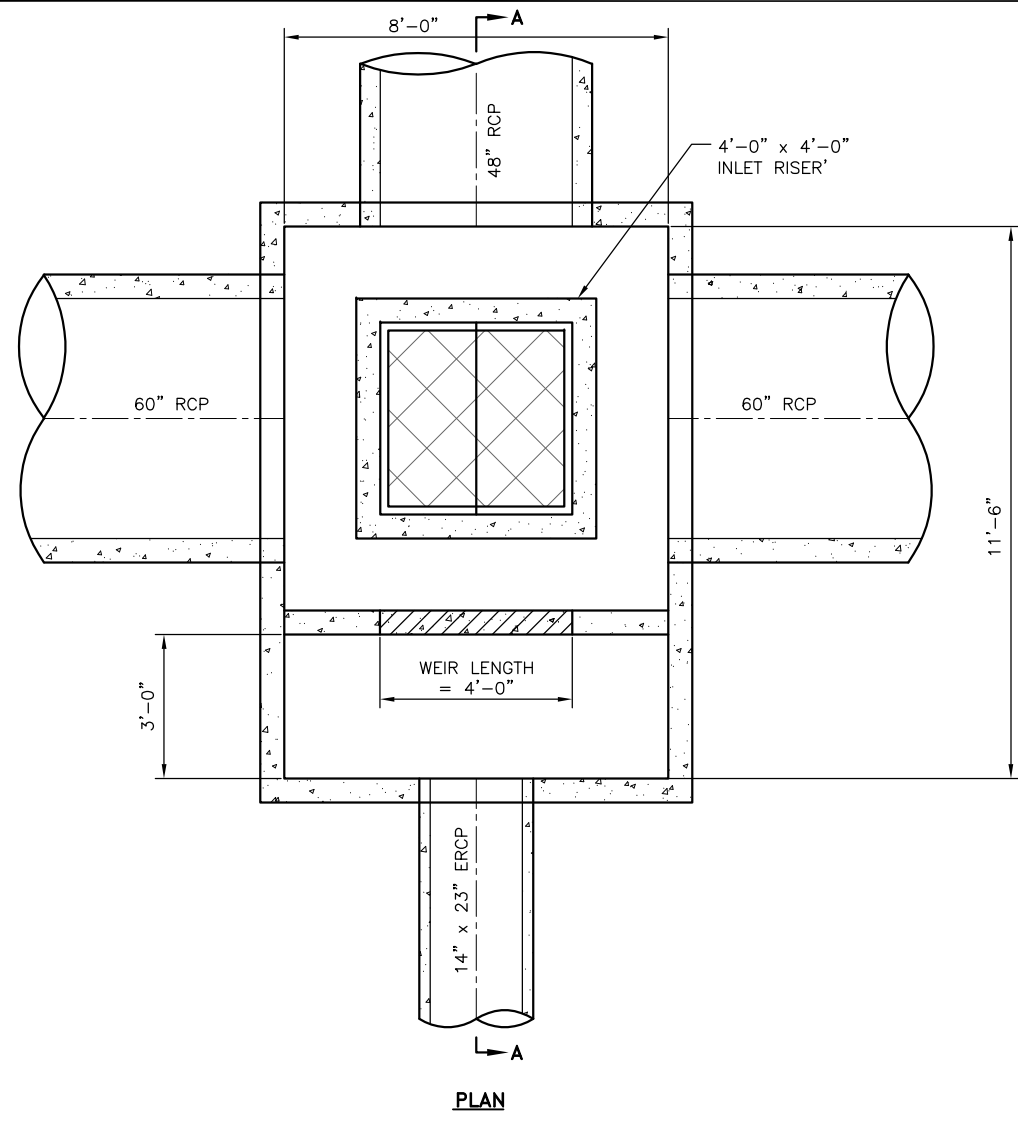
DATE	DESCRIPTION	BY	AUTH
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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>STORM DRAIN MANHOLE WITH WEIR STRUCTURE SD10</b>	SHEET NO. <b>C4.45</b>

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**INLET STRUCTURE SD25 WITH WEIR**  
N.T.S.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

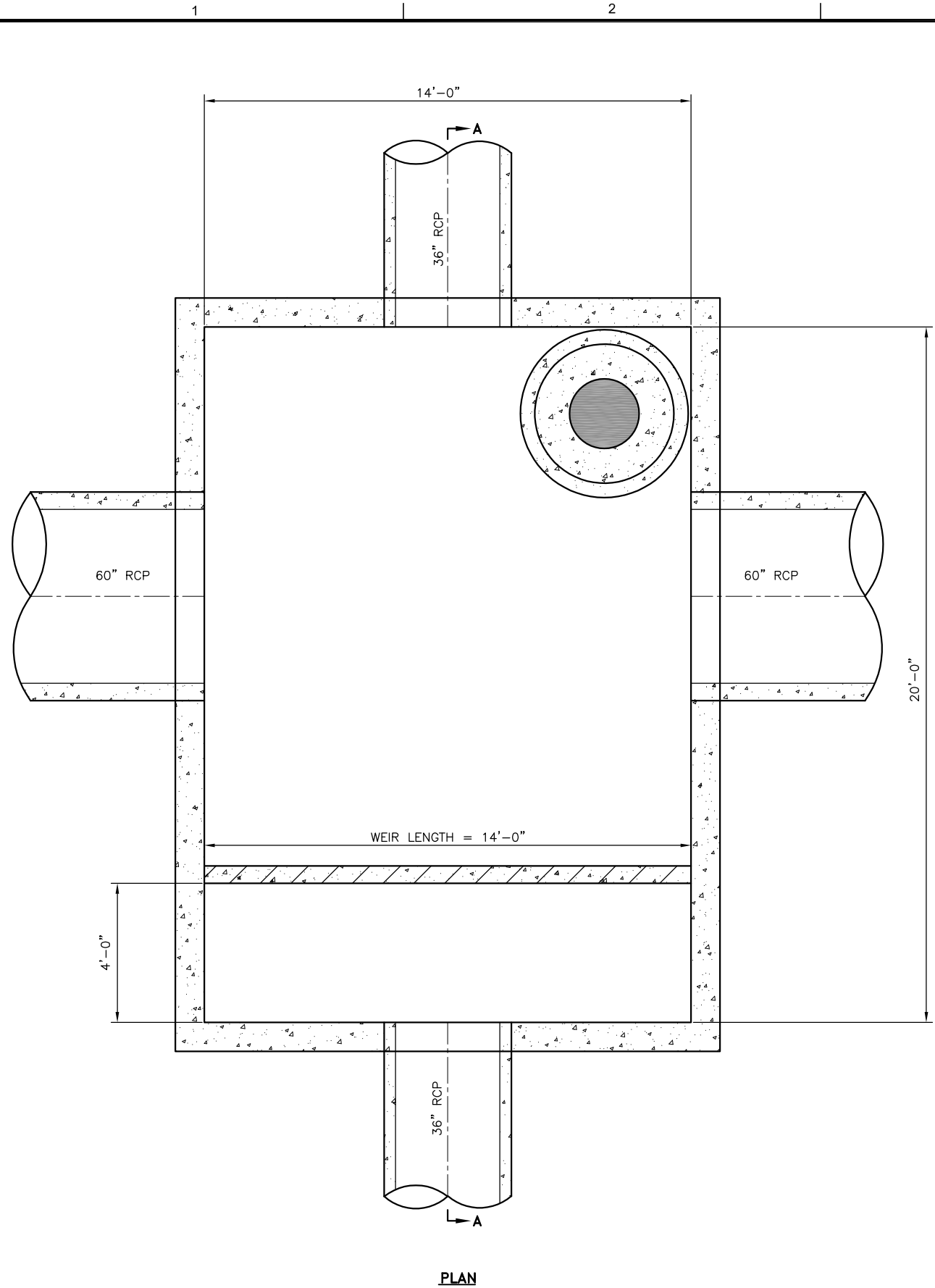


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PROJECT NO.	60611019
DATE:	MARCH, 2021

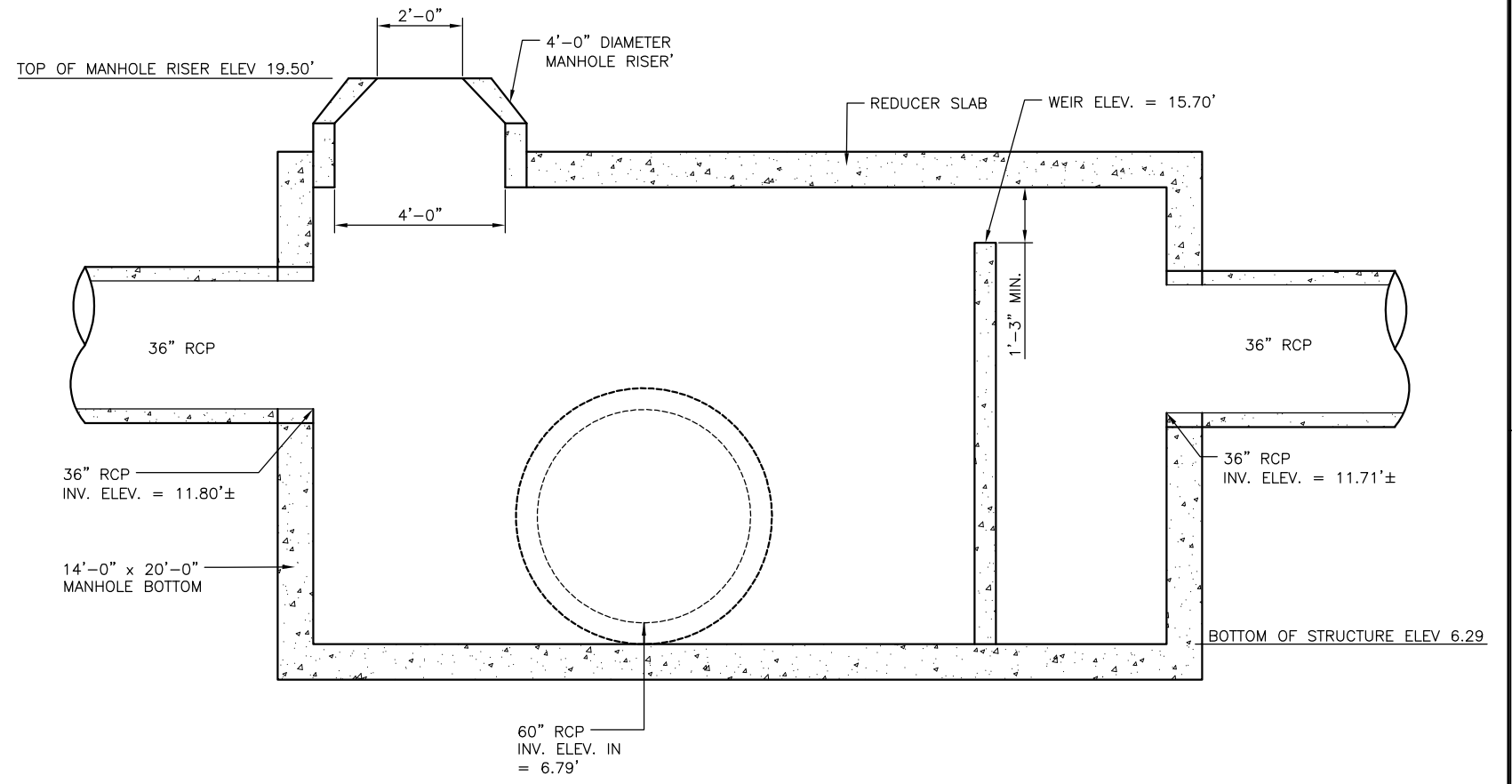
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>STORM DRAIN MANHOLE WITH WEIR STRUCTURE SD25</b>	SHEET NO. <b>C4.46</b>



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PLAN



SECTION A-A

MANHOLE STRUCTURE SD27 WITH WEIR  
N.T.S.

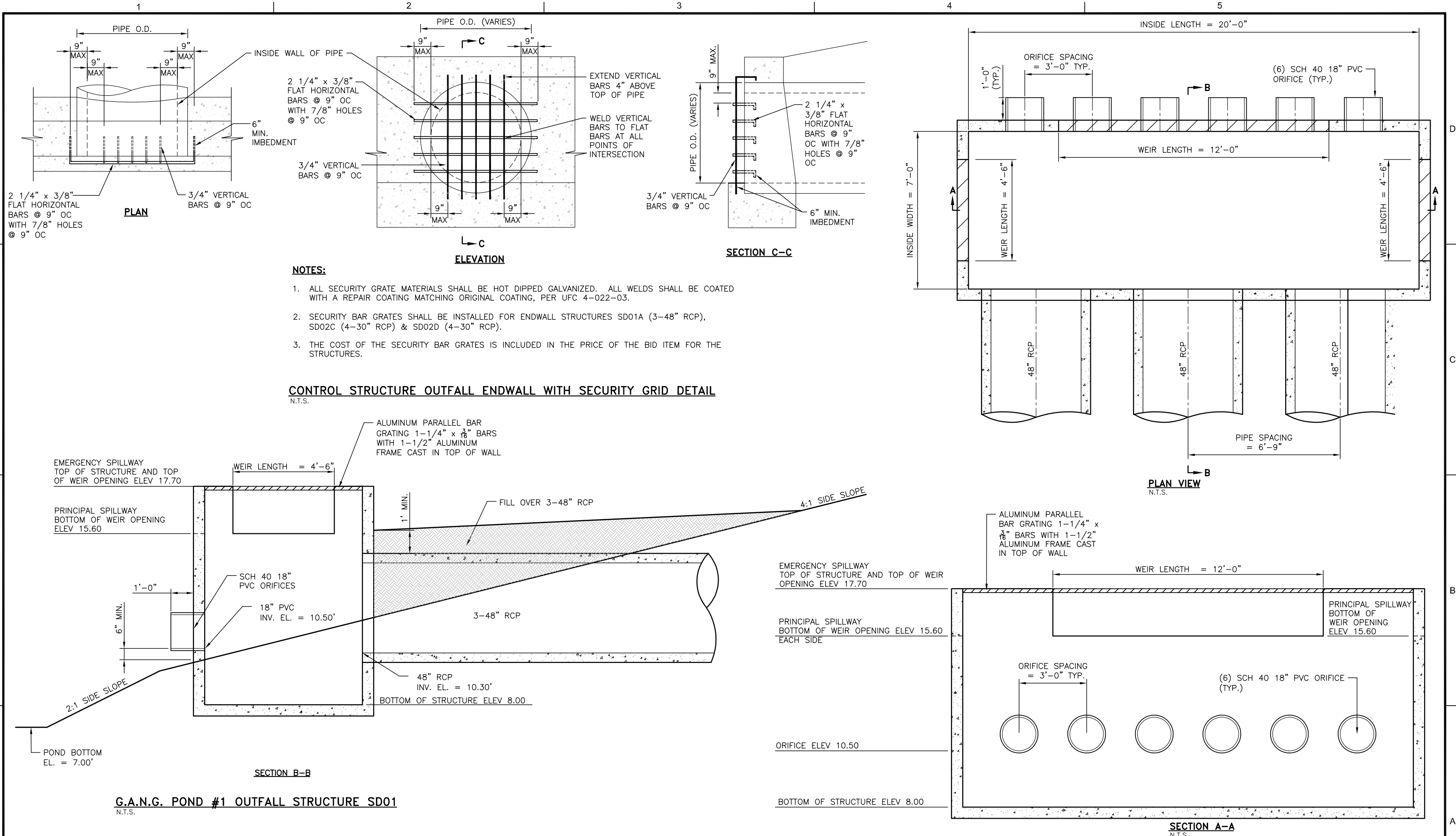
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MAR. 2021	BID DOCUMENTS	APD	RWP



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CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>STORM DRAIN MANHOLE WEIR STRUCTURE SD27</b>	<b>C4.47</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C4-51-C4-52 CTRL DTLS.dwg LAYOUT NAME: C4-51 PLOTTED: Friday, February 26, 2021 - 8:35am USER: Norma.Presley



**NOTES:**

- ALL SECURITY GRATE MATERIALS SHALL BE HOT DIPPED GALVANIZED. ALL WELDS SHALL BE COATED WITH A REPAIR COATING MATCHING ORIGINAL COATING, PER UFC 4-022-03.
- SECURITY BAR GRATES SHALL BE INSTALLED FOR ENDWALL STRUCTURES SD01A (3-48" RCP), SD02C (4-30" RCP) & SD02D (4-30" RCP).
- THE COST OF THE SECURITY BAR GRATES IS INCLUDED IN THE PRICE OF THE BID ITEM FOR THE STRUCTURES.

**CONTROL STRUCTURE OUTFALL ENDWALL WITH SECURITY GRID DETAIL**

N.T.S.

**G.A.N.G. POND #1 OUTFALL STRUCTURE SD01**

N.T.S.

**SECTION A-A**

N.T.S.

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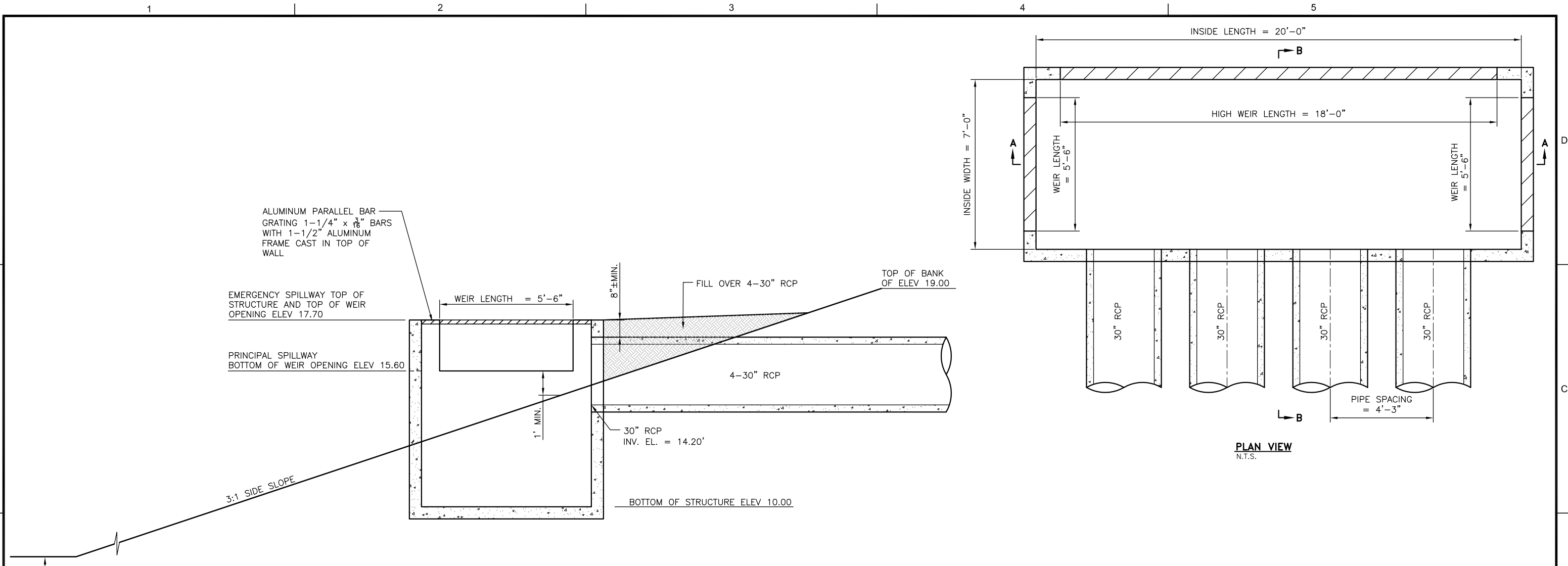
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SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>STORM DRAIN CONTROL STRUCTURE SD01</b>	
SHEET NO.	<b>C4.51</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

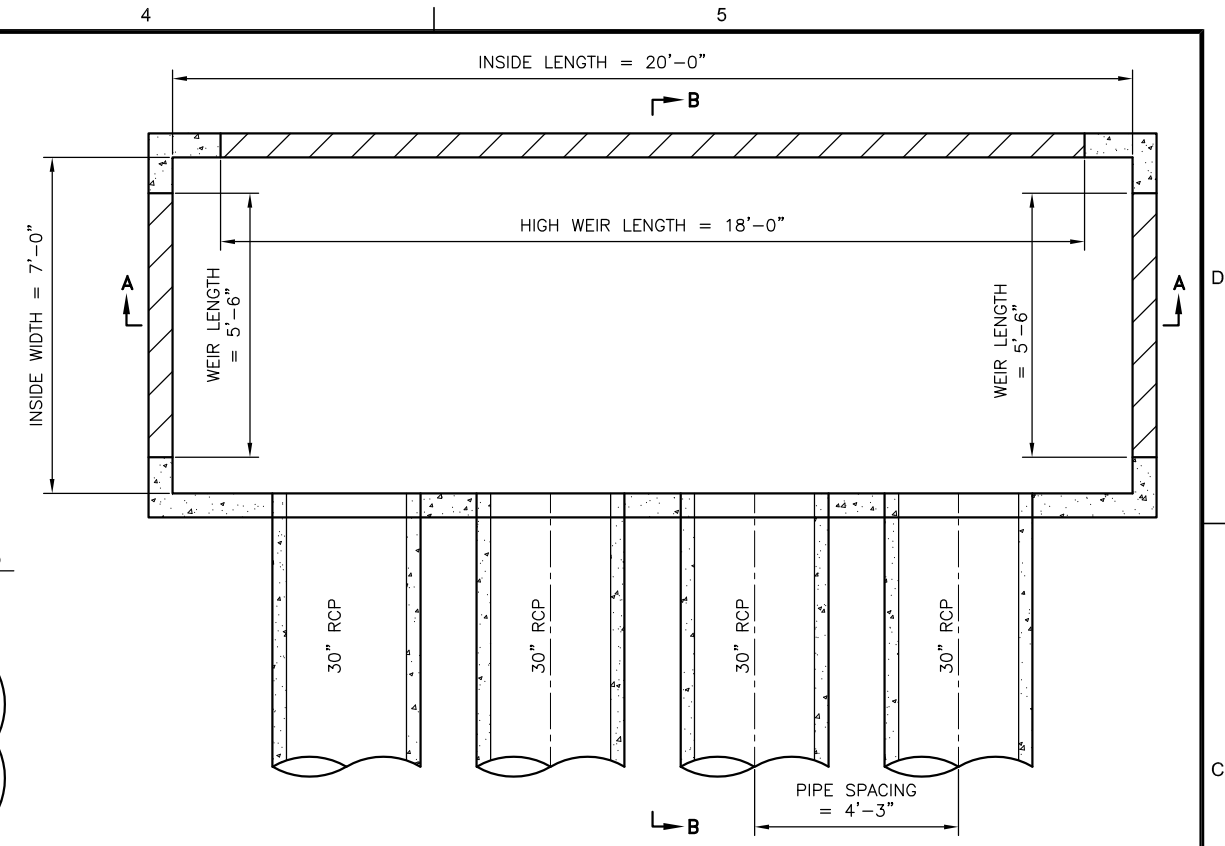


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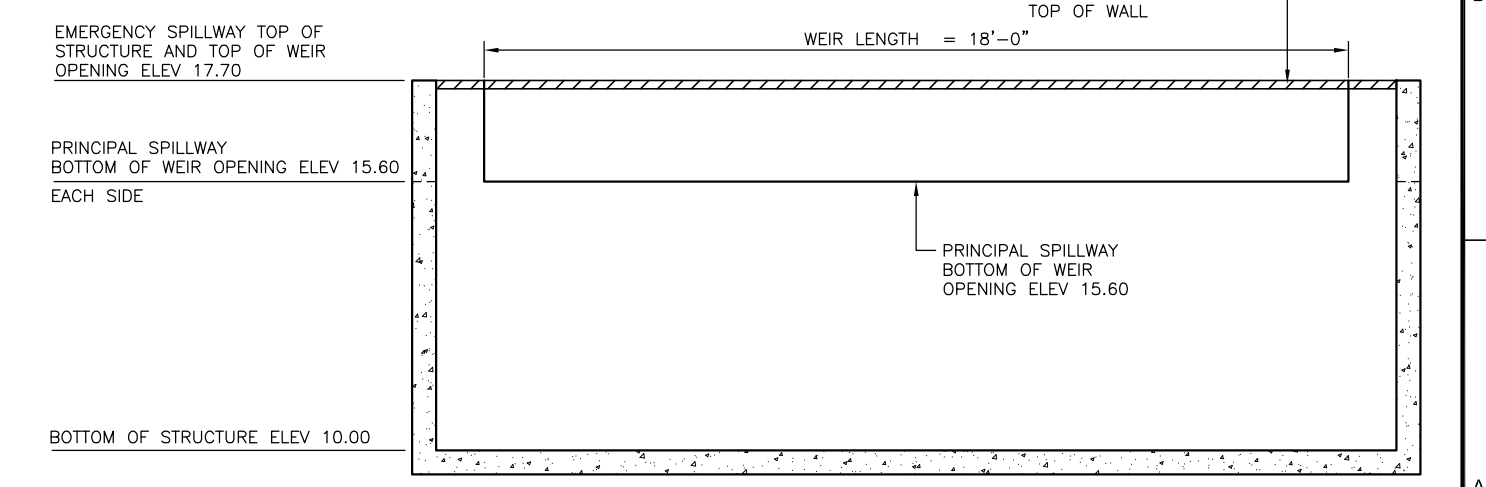


**SECTION B-B**

**NEW POND #2 OUTFALL STRUCTURES SD02A & SD02B**  
N.T.S.



**PLAN VIEW**  
N.T.S.



**SECTION A-A**  
N.T.S.

DATE	DESCRIPTION	BY	AUTH
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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>STORM DRAIN CONTROL STRUCTURE SD02A &amp; SD02B</b>	
SHEET NO.	<b>C4.52</b>

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST  
STAND ALONE CONSTRUCTION PROJECTS

SWCD: Coastal SWCD Region 3  
Project Name: Southeast Quadrant Storm Drainage Improvements Address: 400 Airways Avenue  
City/County: Savannah/Chatham Date on Plans: September, 2020  
Name & email of person filling out checklist: Russell Pratt, P.E. russ.pratt@aecom.com

Table with columns: Page #, Included Y/N, TO BE SHOWN ON ES&PC PLAN. Rows include C5.00, C5.00-C5.65, N/A, C5.04, C5.01 (Notes 1 & 3), C5.01 (Notes 2) & C5.04 (Note 1), C5.01 (Note 3), C5.00-C5.65, C5.04 (Note 1), C5.04, C5.01 (Note 5), C5.01 (Note 11), C5.01 (Note 12), C5.01 (Note 13), C5.01 (Note 15), N/A, C5.04 (Note 9), C5.01 (Note 18), C5.02 (Note 25), C5.02 (Note 27), C5.02 (Note 28), N/A.

- 1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The complete Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- 2. Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to the ES&PC Plan or the Plan will not be reviewed)
- 3. Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. (A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed)
- 4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls
- 5. Provide the name, address, email address, and phone number of primary permittee.
- 6. Note total and disturbed acreage of the project or phase under construction.
- 7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
- 8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- 9. Description of the nature of construction activity.
- 10. Provide a vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- 11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- 12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
- 13. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.
- 14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit.
- 15. Clearly note the statement that "Non-exempt activities shall not be conducted within the 25- or 53-foot undisturbed stream buffers as measured from the point of a wooded vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- 16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- 17. Clearly note the statement that "Any encroachment or revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
- 18. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."
- 19. Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to and during disturbing activities."
- 20. Clearly note statement that "Erosion control measures will be maintained at all times. Full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
- 21. Clearly note the statement that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- 22. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of an Impaired Stream Segment must comply with Part II C of the permit. Include the complete Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.

Table with columns: Item, Y/N, Y. Rows include C5.01 (Note 7), C5.01 (Note 8), C5.01 (Note 3) under Specific BMPs, C5.02 (Note 33), C5.01 (Notes 1 & 2) under Potential Sources and Notes 1-3 under Specific BMPs, C5.04, C5.01 (Note 20), C5.02 (Notes 21 & 22), C5.02 (Note 23), C5.02 (Note 24), C5.02 (TABLE), C5.06, C5.01 (Notes 1-3) under Specific BMPs, C5.05-C5.71, C5.21-C5.71, N/A, N/A, N/A, C1.01, C5.26-C5.30, C5.46-C5.50, C5.66-C5.70, C5.07 & C5.08, Drainage Report (Figure 1 & Figure 2), Drainage Report (Tables 1, 12, 13 and 15), C5.85 (TABLE), C5.05, C5.21-C5.71, C5.25-C5.30, C5.45-C5.50, C5.65-C5.70 & C5.85.

- 23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (as listed in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
- 24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.
- 25. Provide BMPs for the remediation of all petroleum spills and leaks.
- 26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
- 27. Description of practices to provide cover for building materials and building products on site.
- 28. Description of the practices that will be used to reduce the pollutants in storm water discharges.
- 29. Description and chart or table of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., final perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- 30. Provide complete requirements of inspections and record keeping by the primary permittee.
- 31. Provide complete requirements of sampling frequency and reporting of sampling results.
- 32. Provide complete details for retention of records as per Part IV.F. of the permit.
- 33. Description of analytical methods to be used to collect and analyze the samples from each location.
- 34. Appendix B table for TSS values at all outfall sampling points where applicable.
- 35. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
- 36. A description of erosion/silt controls and measures that will be implemented at the construction site including (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase.
- 37. Graph of slope and North arrow.
- 38. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 100 feet	Flat 0 - 2%	0.5 or 1
large scale	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10
- 39. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswc.org.
- 40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion and Sediment Control in Georgia 2016 Edition.
- 41. Delineation of the applicable 25-foot or 50-foot undisturbed buffer adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- 42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
- 43. Delineation and acreage of contributing drainage basins on the project site.
- 44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.
- 45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- 46. Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Date mark all storm water discharge points.
- 47. Soil series for the project site and their delineation.
- 48. The limits of disturbance for each phase of construction.
- 49. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retention detention pond, and/or excavated infiltration basins for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Work sheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

Table with columns: Item, Y/N, Y. Rows include C5.21-C5.71, C5.81-C5.85, C5.83.

- 50. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- 51. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- 52. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

\* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 feet of a perennial stream, the checklist items would be N/A.

Effective January 1, 2020

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C-5-5-00-C5-04 EC-NTS.dwg LAYOUT NAME: C5-00 PLOTTED: Thursday, February 25, 2021 - 2:03pm USER: Norma Pressley

Table with columns: DATE, DESCRIPTION, BY, AUTH. Rows include MAR. 2021, BID DOCUMENTS, APD, RWP.



Table with columns: PM, DWG, CHK, DSG, SCALE, PROJECT NO., DATE. Rows include RWP, APD, SGH, RWP, AS NOTED, 60611019, MARCH, 2021.

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS  
EROSION AND SEDIMENT CONTROL CHECKLIST  
SHEET TITLE  
SHEET NO. C5.00  
DRAWING SIZE REDUCED IF LESS THAN 34"x22"



**EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES**

1. THE PRIMARY PERMITEE OF THIS PROJECT IS SAVANNAH HILTON HEAD INTERNATIONAL AIRPORT 400 AIRWAYS AVENUE, SAVANNAH, GA 31408. CONTACT PERSON: MR. MARK DENMARK OFFICE TEL.: 912-964-0514 EXT. 3308, CELL TEL.: 912-313-2828

2. THE TOTAL ACREAGE OF THE PROJECT AREA IS 25.8 ACRES WHICH IS THE SAME AS THE TOTAL DISTURBED AREA OF 25.8 ACRES.

3. THE PROJECT AREA IS LOCATED WITHIN THE PROPERTY BOUNDARIES OF THE SAVANNAH HILTON HEAD INTERNATIONAL AIRPORT AND CAN BE ACCESSED THROUGH THREE PROPOSED TEMPORARY CONSTRUCTION EXITS. THE LOCATIONS OF THE CONSTRUCTION EXITS AND THEIR RESPECTIVE LATITUDE AND LONGITUDE COORDINATES ARE SHOWN ON SHEETS C5.22, C5.26 & C5.31 FOR THE INITIAL PHASE, SHEETS C5.42, C5.46 & C5.51 FOR THE INTERMEDIATE PHASE AND SHEETS C5.62, C5.66 & C5.71 FOR THE FINAL PHASE.

4. THE PRESENCE OF ON-SITE WETLANDS HAS BEEN INVESTIGATED AND IT WAS DETERMINED THAT THERE IS A FORESTED WETLAND ENCOMPASSING 13.39-ACRES IDENTIFIED AS WETLAND NO. 1 AND A FORESTED WETLAND ENCOMPASSING APPROXIMATELY 1.25 -ACRES IDENTIFIED AS WETLAND NO. 2 THAT ARE LOCATED WITHIN THE AREA TO BE DISTURBED. ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND WILL BE PROTECTED BY ASSOCIATED STATE AND COUNTY PROTECTION REGULATIONS AND BUFFERS.

5. THE RECEIVING WATERS OF THIS PROJECT IS - PIPE MAKERS CANAL. PIPE MAKERS CANAL IS LOCATED APPROXIMATELY 1-MILE EAST OF THE PROJECT AREA, SUPPORTS WARM WATER FISHERIES AND IS AN IMPAIRED STREAM WHERE FECAL COLIFORM IS THE POLLUTANT CAUSING THE IMPAIRMENT. THE PROJECT SITE DISCHARGES INTO SR 307 STORM SEWER SYSTEM THAT IS PART OF A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATED BY THE CITY OF SAVANNAH, GA UNDER THE PERMIT NO. GAS000205 THAT ULTIMATELY DISCHARGES INTO THE PIPE MAKERS CANAL. A TMDL HAS NOT BEEN FINALIZED FOR THIS SEGMENT OF PIPE MAKERS CANAL. NO OTHER ADJACENT STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, ETC. WILL BE AFFECTED OTHER THAN THE TWO FORESTED WETLANDS IDENTIFIED AS WETLAND NO.1 AND WETLAND NO. 2.

6. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LOADED RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

7. WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS APPROVED BY THE AIRPORT AUTHORITY. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:

(1) CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA;

(2) USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES;

(3) REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND

(4) REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.

8. SPILL CLEANUP AND CONTROL PRACTICES:

LOCAL, STATE AND MANUFACTURER'S RECOMMEND METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

9. SEE NARRATIVE ON SHEET C4.24 FOR SITE DESCRIPTION.

10. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY, DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHERS/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

DESIGN PROFESSIONAL'S CERTIFICATIONS

11. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

DESIGN PROFESSIONAL'S SIGNATURE & GSWCC CERTIFICATION NO. : \_\_\_\_\_ GSWCC CERT. NO. 000063833\_

12. I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

DESIGN PROFESSIONAL'S SIGNATURE & GSWCC CERTIFICATION NO. : \_\_\_\_\_ GSWCC CERT. NO. 000063833\_

PERMITEE'S CERTIFICATION

13. I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED BY PRIMARY PERMITEE: \_\_\_\_\_

NAME: MR. MARK DENMARK, E-MAIL: MDENMARK@FLYSAV.COM  
 COMPANY: HILTON HEAD INTERNATIONAL AIRPORT, CITY OF SAVANNAH  
 ADDRESS: 400 AIRWAYS AVENUE,  
 CITY/ST/ZIP: SAVANNAH, GA 31408

14. A HYDROLOGY STUDY ACCOMPANIES THESE ES&PC DRAWINGS AND FORMS PART OF THE PLANS.
15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25- FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
16. THE PRIMARY PERMITEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PERMITEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITEE WITHIN SEVEN (7) DAYS AND THE PERMITEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
17. THE PRIMARY PERMITEE, AS APPLICABLE, SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT. AMENDMENTS TO THE PLANS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.
18. NO WASTE MATERIALS, INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
19. HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS;S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES:

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THE PROJECT.

20. INSPECTIONS:

A. PRIMARY PERMITEE

(1) EACH DAY, WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITEE SHALL INSPECT (A) ALL AREAS AT THE PRIMARY PERMITEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2) MEASURE AND RECORD RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

- (A) DISTURBED AREAS OF THE PRIMARY PERMITEE'S CONSTRUCTION SITE,
- (B) AREAS USED BY THE PRIMARY PERMITEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND
- (C) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD). THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLANS SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

**POTENTIAL POLLUTION SOURCES AND BMPS TO REDUCE POLLUTANTS**

1. THE POTENTIAL POLLUTION SOURCES ARE SEDIMENT FROM DISTURBED SOILS TEMPORARILY UNPROTECTED WITH VEGETATION.
2. THE VEGETATIVE AND STRUCTURAL BEST MANAGEMENT PRACTICES (BMPs) TO REDUCE THE POLLUTANTS FROM THE DISTURBED AREAS ARE LISTED BELOW UNDER THE HEADING SPECIFIED EROSION, SEDIMENTATION AND POLLUTION CONTROL BMPs

**SPECIFIED EROSION, SEDIMENTATION AND POLLUTION CONTROL BMPs**

1. THE FOLLOWING STRUCTURAL AND VEGETATIVE BMPs ARE SPECIFIED FOR IMPLEMENTATION DURING THE INITIAL PHASE AS SHOWN ON SHEETS C5.21 THROUGH C5.31 AND DURING THE INTERMEDIATE PHASE AS SHOWN ON SHEETS C5.41 THROUGH C5.51.

- (1) Co CONSTRUCTION EXIT  
 (2) Rd ROCK FILTER DAM  
 (3) RETROFITTED DETENTION POND WITH SKIMMER (POND NO. 1 AND POND NO. 2)  
 (4) Sd1-NS SEDIMENT BARRIER (NON-SENSITIVE AREAS)  
 (5) Sd1-S SEDIMENT BARRIER (SENSITIVE AREAS)  
 (6) Sd2-F INLET SEDIMENT TRAP (FILTER FABRIC WITH SUPPORTING FRAME)  
 (7) Sk FLOATING SURFACE SKIMMER  
 (8) St STORM DRAIN OUTLET PROTECTION  
 (9) Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)  
 (10) Du DUST CONTROL ON DISTURBED AREAS

2. THE FOLLOWING STRUCTURAL AND VEGETATIVE BMPs ARE SPECIFIED FOR IMPLEMENTATION DURING THE FINAL PHASE AS SHOWN ON SHEETS C5.61 THROUGH C5.71.

- (1) Co CONSTRUCTION EXIT  
 (2) Rd ROCK FILTER DAM  
 (3) RETROFITTED DETENTION POND WITH SKIMMER (POND NO. 1 AND POND NO. 2)  
 (4) Sd1-NS SEDIMENT BARRIER (NON-SENSITIVE AREAS)  
 (5) Sd1-S SEDIMENT BARRIER (SENSITIVE AREAS)  
 (6) Sd2-F INLET SEDIMENT TRAP (FILTER FABRIC WITH SUPPORTING FRAME)  
 (7) Sk FLOATING SURFACE SKIMMER  
 (8) PERMANENT FABRIC FORM REVETMENT  
 (9) Ds4 DISTURBED AREA STABILIZATION WITH SODDING (PERMANENT GROUND COVER)  
 (10) Du DUST CONTROL ON DISTURBED AREAS

3. THE FOLLOWING PERMANENT STRUCTURAL AND VEGETATIVE BMPs ARE SPECIFIED TO BE INSTALLED DURING THE INITIAL, INTERMEDIATE AND FINAL CONSTRUCTION PHASES THAT WILL REMAIN AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

- (1) WET STORMWATER DETENTION PONDS NO. 1 AND NO. 2 THAT FUNCTIONED AS RETROFITTED DETENTION PONDS WITH SKIMMER DURING THE INITIAL, INTERMEDIATE AND FINAL CONSTRUCTION PHASES  
 (2) STORMWATER DISCHARGE CONTROL STRUCTURE SD01 FOR WET DETENTION POND NO. 1 AND STORMWATER DISCHARGE CONTROL STRUCTURES SD02A AND SD02B FOR WET DETENTION POND NO. 2.  
 (3) PERMANENT FABRIC FORM REVETMENT  
 (4) PERMANENT SOD Ds4 DISTURBED AREA STABILIZATION WITH SODDING (PERMANENT GROUND COVER)

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadrant\Design\900-Work\910 CAD\20-SHEETS\C-5-00-C5-04 Ec-NIS.dwg LAYOUT NAME: C5-01 PLOTTED: Thursday, February 25, 2021 - 2:03pm USER: Norma-Pressley

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION AND SEDIMENT CONTROL NOTES (1)**

SHEET NO.: **C5.01**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadrDmg\900-Work\910 CAD\20-SHEETS\C-5-00-C5-04 EC-NIS.dwg LAYOUT NAME: C5-02 EC-NIS.dwg PLOTTED: Thursday, February 25, 2021 - 2:03pm USER: Norma.Pressley

21. SAMPLING FREQUENCY.

- (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
  - (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
  - (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
  - (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
  - (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
  - (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

\*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

22. REPORTING

- (1)THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- (2)ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
  - (A) THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
  - (B) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
  - (C) THE DATE(S) ANALYSES WERE PERFORMED;
  - (D) THE TIME(S) ANALYSES WERE INITIATED;
  - (E) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
  - (F) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
  - (G) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
  - (H) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
  - (I) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- (3)ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEES SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

23. RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
  - (A) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
  - (B) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
  - (C) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
  - (D) A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
  - (E) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT;
  - (F) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
  - (G) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER

RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

24. SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A.SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1)A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT;
  - (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND
  - (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
- (2)THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
- (3)WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMITS(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
- (4)ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B.SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAD SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1)SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- (2)SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- (3)LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- (4)MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED, DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- (5)SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C.SAMPLING POINTS

- (1)FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- (A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- (B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- (C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- (D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
- (E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- (F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- (G) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE, THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP). GABIONS, PERMANENT MULCHES OR GEOTEXTILES HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
- (H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

25. THE ALLOWABLE INCREASE IN TURBIDITY BETWEEN THE DOWNSTREAM AND UPSTREAM SAMPLING POINTS IN THE RECEIVING WATERS, WHICH ARE CLASSIFIED AS WARM WATER, FOR THIS PROJECT IS 25 NTU.

26. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

27. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

28. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

29. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL".

30. ACCORDING TO FLOOD INSURANCE RATE MAP 13277C0109E DATED SEPTEMBER 29, 2010, THE PROPERTY IS LOCATED IN FLOOD ZONE X WHICH IS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

31. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

32. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY FIELD INSPECTOR.

33. FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTES AND OTHER MATERIALS PRESENT ON SITE PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. ACCEPTABLE PRACTICES INCLUDE BUT ARE NOT LIMITED TO PRE-FABRICATED STORAGE BINS, TRAILERS, SITE BUILT STORAGE SHEDS, SECURELY FASTENED TARPS COMPRESSED OR IMPERMEABLE MATERIAL AND OTHER WEATHER PROOF STORAGE COMPARTMENT THAT PROTECTS THE MATERIALS FROM PRECIPITATION AND STORMWATER RUNOFF.

SAMPLING POINT FOR NTU LIMITS (WATM WATER SUPPORTING WARM WATER FISHERIES)			
SAMPLING POINTS SEE SHEET C5.06 FOR LOCATIONS	SURFACE WATER DRAINAGE AREA TO PIPE MAKERS CANAL (SQ. MI.)	PROJECT SITE DISTURBED AREA (ac)	NTU LIMIT
SL-1, SL-2, SL-3, SL-4,	0.18	25.8	50
SL-5, SL-6, & SL-7			

NOTE: NTU LIMIT BASED ON VALUES IN APPENDIX B OF GENERAL PERMIT NO. GAR100001

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM: RWP
DWG. BY: APD
CHK. BY: SGH
DSG. BY: RWP
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>EROSION AND SEDIMENT CONTROL NOTES (2)</b>	<b>C5.02</b>



**PERMIT COVERAGE**

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100003 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR COMMON DEVELOPMENTS.

**MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART III.D):**

- BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BMP'S SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3 AND PART III.D.4.
- FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BMP'S SHALL CONSTITUTE A VIOLATION OF THE PERMIT. ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION. IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTIONS BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.
- A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BMP'S HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.J AND PART II.B.3.J.

**AUTHORIZED DISCHARGES (PART I.C.)**

- ALL DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.A.
- ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1.
- AUTHORIZED MIXED STORM WATER DISCHARGES: PART I.C.2.
  - THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
  - THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THE PERMIT;
  - STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
- THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY IN THE PLAN AND IS IN COMPLIANCE WITH PART IV.D.7: PART III.A.2.
  - FIRE FIGHTING ACTIVITIES;
  - FIRE HYDRANT FLUSHING;
  - POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING;
  - IRRIGATION DRAINING;
  - AIR CONDITIONING CONDENSATE;
  - SPRINGS;
  - UNCONTAMINATED GROUND WATER; AND
  - FOUNDATION OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

**LIMITATION ON COVERAGE PART I.C.3**

THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

- STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
- DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT;
- STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
- STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

**COMPLIANCE WITH WATER QUALITY PART I.C.4**

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

**EROSION AND SEDIMENT CONTROL INITIAL PHASE NOTES**

- PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREA.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
- THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:
  - THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS.
  - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
  - TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
- WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
- AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES.
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
- ALL SILT-FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

**EROSION AND SEDIMENT CONTROL INTERIM PHASE NOTES**

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION. CUT AND FILL SLOPES SHALL NOT EXCEED 3:1.
- STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
- ALL GRADED AREAS SHALL BE APPLIED WITH SOD AS SOON AS FINAL GRADE IS ACHIEVED.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITH 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES, WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

**EROSION AND SEDIMENT CONTROL FINAL PHASE NOTES**

- ALL ROADWAY SHOULDERS SHOULD BE SODDED AS SOON AS FINAL GRADE IS ACHIEVED.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910 CAD\20-SHEETS\C-5-00-C5-04 EC-NIS.dwg LAYOUT NAME: C5-03 PLOTTED: Thursday, February 25, 2021 - 2:03pm USER: Norma.Pressley

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

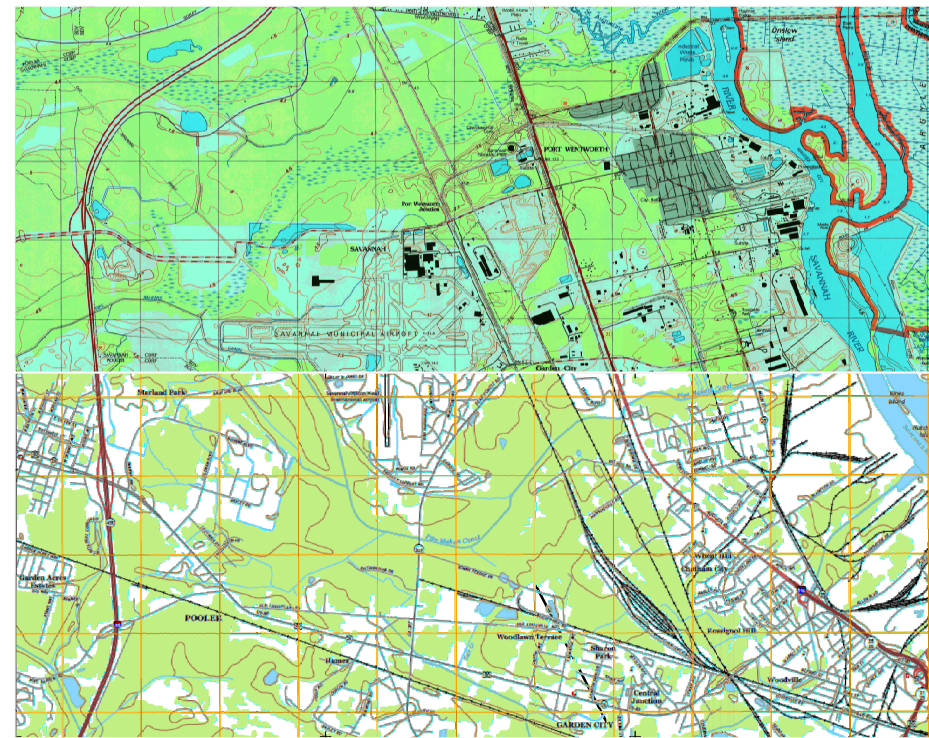
SHEET TITLE	SHEET NO.
<b>EROSION AND SEDIMENT CONTROL NOTES (3)</b>	<b>C5.03</b>



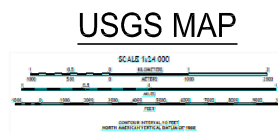
**NARRATIVE:**

- THIS PROJECT WILL CONSIST OF DRAINAGE IMPROVEMENTS AT THE SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT LOCATED IN THE CITY OF SAVANNAH, GEORGIA. THE PROJECT DISTURBS APPROXIMATELY 25.8 ACRES TOTAL. THIS PROJECT INCLUDES GRADING IMPROVEMENTS TO MODIFY AN EXISTING POND AND CONSTRUCT A NEW WET DETENTION POND IN THE G.A.N.G FACILITY, NEW STORM DRAIN PIPE FROM BOB HARMON ROAD TO THE EXISTING G.A.N.G. WET DETENTION POND AND NEW STORM DRAIN PIPE FROM G.A.N.G. FACILITY AT BILL BLAND RD. TO THE NEW WET DETENTION POND.
- THE PROJECT IMPACTS THE ACTIVE AIRPORT OPERATIONS AREA. TO MAINTAIN THE SAFETY AND SECURITY OF THE AIRFIELD AND MAINTAIN ACTIVE TRAFFIC BETWEEN THE GEORGIA AIR NATIONAL GUARD FACILITIES, THE PROJECT REQUIRED SEVERAL PHASES OF WORK WHICH CANNOT BE COMPLETED CONCURRENTLY.
- IN SUMMARY:**  
 MOBILIZATION PHASE 1 - CLEARING, GRUBBING AND TREE CLEARING FOR CONSTRUCTION OF NEW WET DETENTION POND.  
 PHASE 2 - GRADING IMPROVEMENTS AT G.A.N.G. WET DETENTION POND  
 PHASE 3 - INSTALLATION NEW STORM SEWER PIPE FROM BOB HARMON RD. TO EXISTING G.A.N.G WET DETENTION POND, INSTALLATION OF NEW STORM SEWER PIPE BETWEEN EXISTING G.A.N.G. WET DETENTION POND TO NEW WET DETENTION POND, AND INSTALLATION OF NEW STORM SEWER PIPE FROM G.A.N.G. FACILITY TO NEW WET DETENTION POND.  
  
 CRITICAL AREAS ON SITE: WETLANDS
- THE PROJECT AREA IS WITHIN ZONE X AS SHOWN ON THE LATEST FLOOD INSURANCE RATE MAPS (FIRMS) COMMUNITY PANEL NOS. 13051C0040G AND 13051C0045F PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) ON AUGUST 5, 2013 AND SEPTEMBER 26, 2008, RESPECTIVELY. ZONE X IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND TEMPORARY SEEDING.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

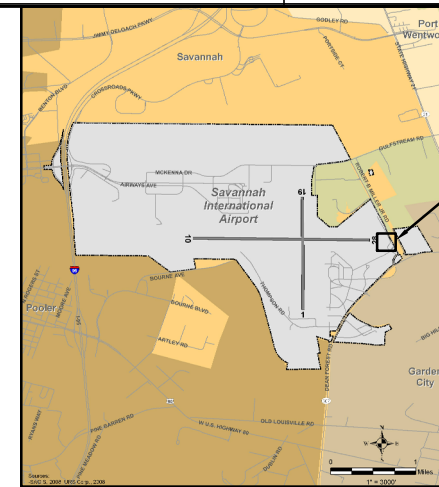
GA Port Wentworth USGS



GA Garden City USGS



RECEIVING WATERS - PIPEMAKERS CANAL



VICINITY MAP  
N.T.S.



LOCATION MAP  
N.T.S.

**GEORGIA UNIFORM CODING SYSTEM**

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION VEGETATIVE AND STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	SHEET REF.
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.	C5.81
Rd	ROCK FILTER DAM			A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.	C5.82
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SILT FENCE.	C5.81
Sd2	INLET SEDIMENT TRAP			AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.	5.82
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.	5.82
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.	C5.83
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.	C5.83
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.	C5.83
Sk	FLOATING SURFACE SKIMMER			A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.	C5.85

**24 HOUR CONTACT**

MR. MARK DENMARK  
 ASSISTANT DIRECTOR OF ENGINEERING  
 SAVANNAH AIRPORT COMMISSION  
 SAVANNAH HILTON HEAD INTERNATIONAL AIRPORT  
 400 AIRWAYS AVENUE  
 SAVANNAH, GEORGIA 31408  
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 912-313-2828  
 E-MAIL:MDENMARK@FLYSAV.COM

**CONSTRUCTION SCHEDULE**

ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10
INITIAL PERIMETER AND SEDIMENT STORAGE BMP'S	█									
CLEARING AND GRUBBING WETLAND	█	█								
EXCAVATE OPEN CHANNEL IN WETLAND			█							
INSTALL INTERMEDIATE PHASE EROSION CONTROL BMPs		█	█							
EXCAVATING AND GRADING STORMWATER PONDS			█	█	█	█				
STORM WATER AND UTILITY CONSTRUCTION (G.A.N.G)						█	█	█		
PLACE TEMPORARY MULCH (G.A.N.G)	█	█	█	█	█	█	█	█		
PERMANENT VEGETATION, SOD (G.A.N.G)						█	█			
STORMWATER AND UTILITY CONSTRUCTION (AIRPORT)						█	█	█	█	█
PLACE TEMPORARY MULCH (AIRPORT)	█	█	█	█	█	█	█	█	█	█
PERMANENT VEGETATION, SOD (AIRPORT)								█	█	
INSTALL POND OUTFALL STRUCTURES					█	█				
CONSTRUCT FITNESS TRACK					█	█				
EXCAVATE AND GRADE DITCHES IN SR 307 ROW					█	█				
PERMANENT VEGETATION, SOD (PONDS AND SR 307)					█	█				
REMOVE TEMPORARY EROSION CONTROL										█
MAINTENANCE OF BMP'S	█	█	█	█	█	█	█	█	█	█

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

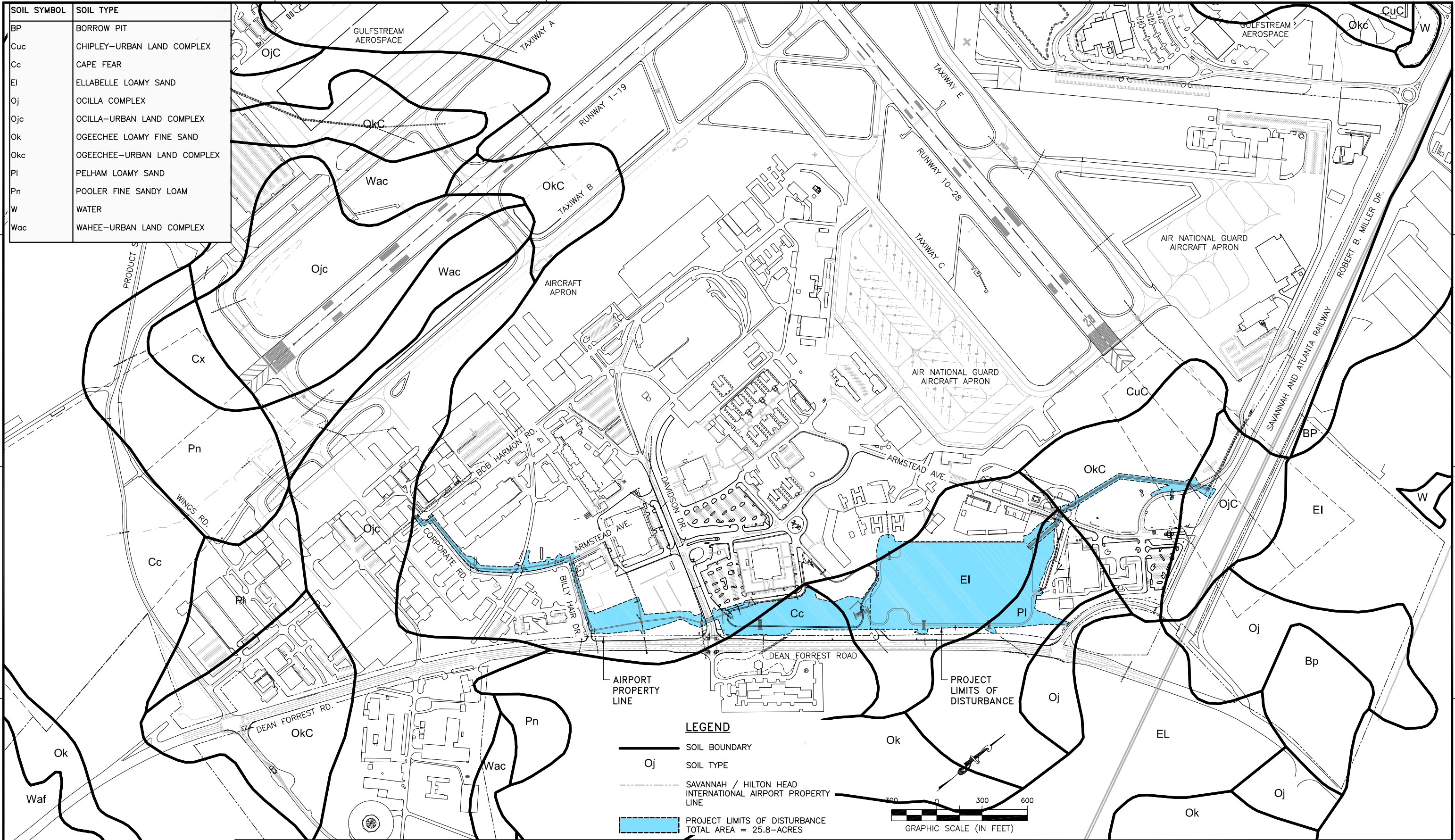
SHEET TITLE	SHEET NO.
EROSION AND SEDIMENT CONTROL NOTES (4)	C5.04

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEquadDmg\Design\900-Work\910 CAD\20-SHEETS\C-5-00-C5-04 EC-NIS.dwg LAYOUT NAME: C5-04 EC-NIS.dwg PLOTTED: Thursday, February 25, 2021 - 2:03pm USER: Norma.Pressley



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQ\QuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-05-SOILS\_PLAN.dwg LAYOUT NAME: C5-05 PLOTTED: Thursday, February 25, 2021 - 2:04pm USER: Norma.Presley

SOIL SYMBOL	SOIL TYPE
BP	BORROW PIT
Cuc	CHIPLEY-URBAN LAND COMPLEX
Cc	CAPE FEAR
EI	ELLABELLE LOAMY SAND
Oj	OCILLA COMPLEX
Ojc	OCILLA-URBAN LAND COMPLEX
Ok	OGEECHEE LOAMY FINE SAND
Okc	OGEECHEE-URBAN LAND COMPLEX
PI	PELHAM LOAMY SAND
Pn	POOLER FINE SANDY LOAM
W	WATER
Wac	WAHEE-URBAN LAND COMPLEX



**LEGEND**

- SOIL BOUNDARY
- Oj SOIL TYPE
- - - SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT PROPERTY LINE
- █ PROJECT LIMITS OF DISTURBANCE  
TOTAL AREA = 25.8-ACRES

GRAPHIC SCALE (IN FEET)

0 300 600

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
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**AECOM**  
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Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

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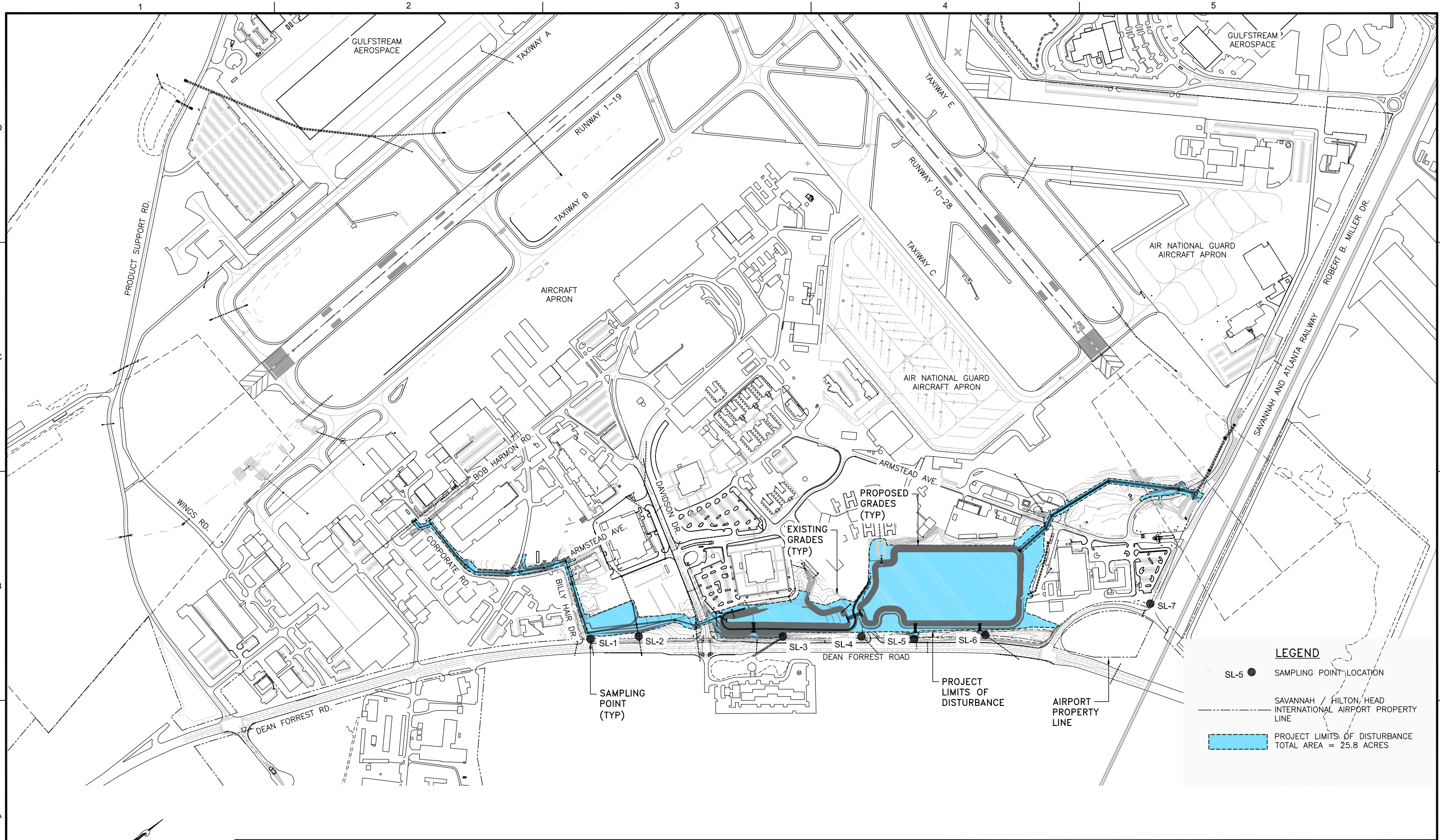
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **SOIL SERIES DELINEATION PLAN**

SHEET NO.: **C5.05**

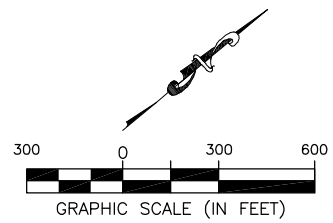


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910\_CAD\20-SHEETS\C5-06-SAMPLING PLAN.dwg LAYOUT NAME: C5-06 PLOTTED: Thursday, February 25, 2021 - 2:05pm USER: Norma.Pressley



**LEGEND**

- SL-5 ● SAMPLING POINT LOCATION
- SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT PROPERTY LINE
- █ PROJECT LIMITS OF DISTURBANCE TOTAL AREA = 25.8 ACRES



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Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **SAMPLING PLAN**

SHEET NO.: **C5.06**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



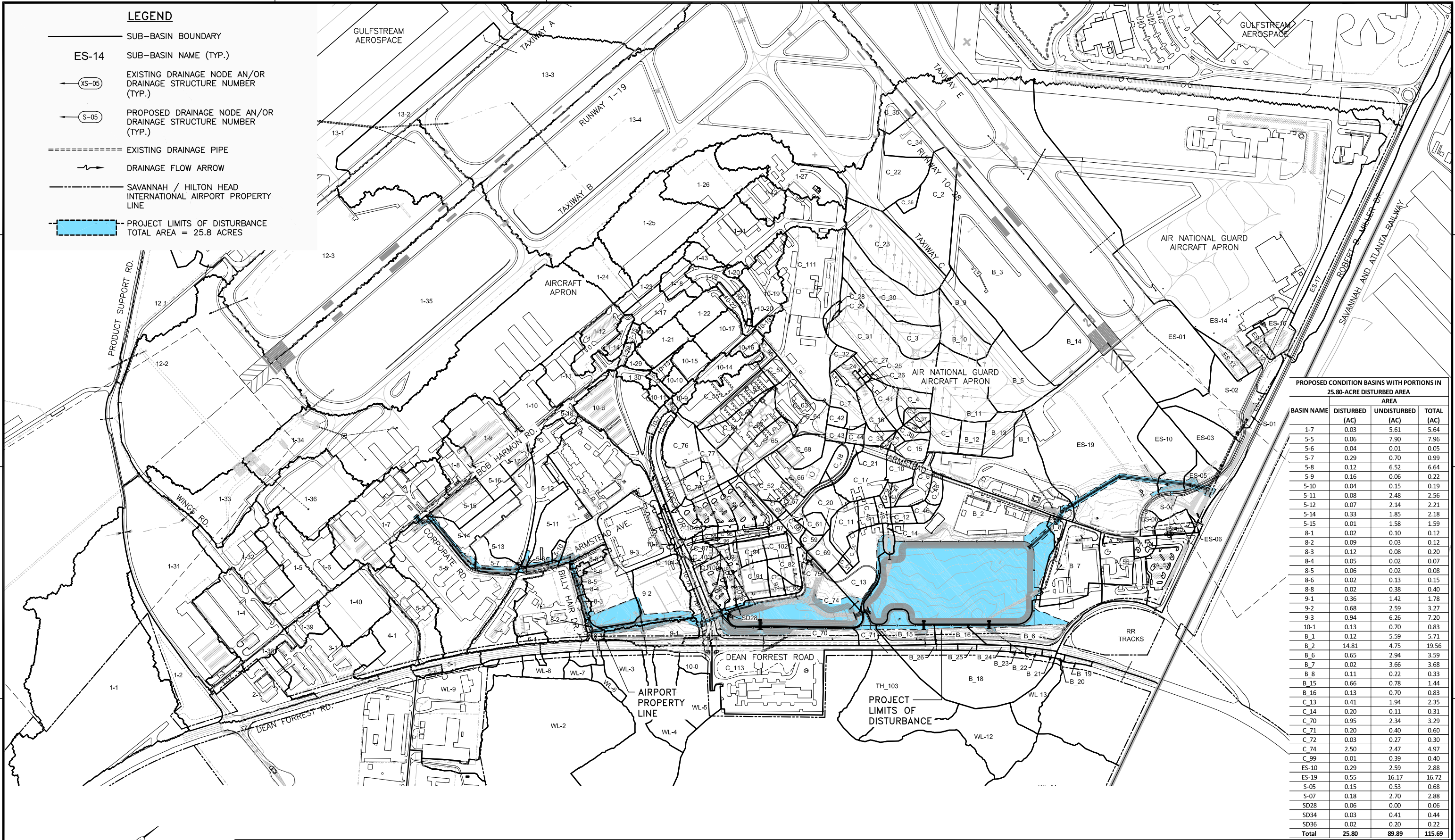




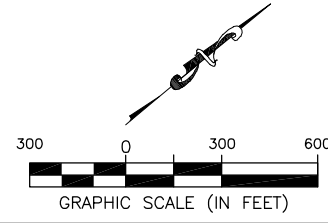
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-08-PR-BASIN PLAN.dwg LAYOUT NAME: C5-08 PLOTTED: Thursday, February 25, 2021 - 2:06pm USER: Norma.Pressley

**LEGEND**

- SUB-BASIN BOUNDARY
- ES-14 SUB-BASIN NAME (TYP.)
- ⊙ XS-05 EXISTING DRAINAGE NODE AN/OR DRAINAGE STRUCTURE NUMBER (TYP.)
- ⊙ S-05 PROPOSED DRAINAGE NODE AN/OR DRAINAGE STRUCTURE NUMBER (TYP.)
- EXISTING DRAINAGE PIPE
- DRAINAGE FLOW ARROW
- - - SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT PROPERTY LINE
- ▭ PROJECT LIMITS OF DISTURBANCE  
TOTAL AREA = 25.8 ACRES



PROPOSED CONDITION BASINS WITH PORTIONS IN 25.80-ACRE DISTURBED AREA			
BASIN NAME	DISTURBED (AC)	UNDISTURBED (AC)	TOTAL (AC)
1-7	0.03	5.61	5.64
5-5	0.06	7.90	7.96
5-6	0.04	0.01	0.05
5-7	0.29	0.70	0.99
5-8	0.12	6.52	6.64
5-9	0.16	0.06	0.22
5-10	0.04	0.15	0.19
5-11	0.08	2.48	2.56
5-12	0.07	2.14	2.21
5-14	0.33	1.85	2.18
5-15	0.01	1.58	1.59
8-1	0.02	0.10	0.12
8-2	0.09	0.03	0.12
8-3	0.12	0.08	0.20
8-4	0.05	0.02	0.07
8-5	0.06	0.02	0.08
8-6	0.02	0.13	0.15
8-8	0.02	0.38	0.40
9-1	0.36	1.42	1.78
9-2	0.68	2.59	3.27
9-3	0.94	6.26	7.20
10-1	0.13	0.70	0.83
B_1	0.12	5.59	5.71
B_2	14.81	4.75	19.56
B_6	0.65	2.94	3.59
B_7	0.02	3.66	3.68
B_8	0.11	0.22	0.33
B_15	0.66	0.78	1.44
B_16	0.13	0.70	0.83
C_13	0.41	1.94	2.35
C_14	0.20	0.11	0.31
C_70	0.95	2.34	3.29
C_71	0.20	0.40	0.60
C_72	0.03	0.27	0.30
C_74	2.50	2.47	4.97
C_99	0.01	0.39	0.40
ES-10	0.29	2.59	2.88
ES-19	0.55	16.17	16.72
S-05	0.15	0.53	0.68
S-07	0.18	2.70	2.88
SD28	0.06	0.00	0.06
SD34	0.03	0.41	0.44
SD36	0.02	0.20	0.22
<b>Total</b>	<b>25.80</b>	<b>89.89</b>	<b>115.69</b>



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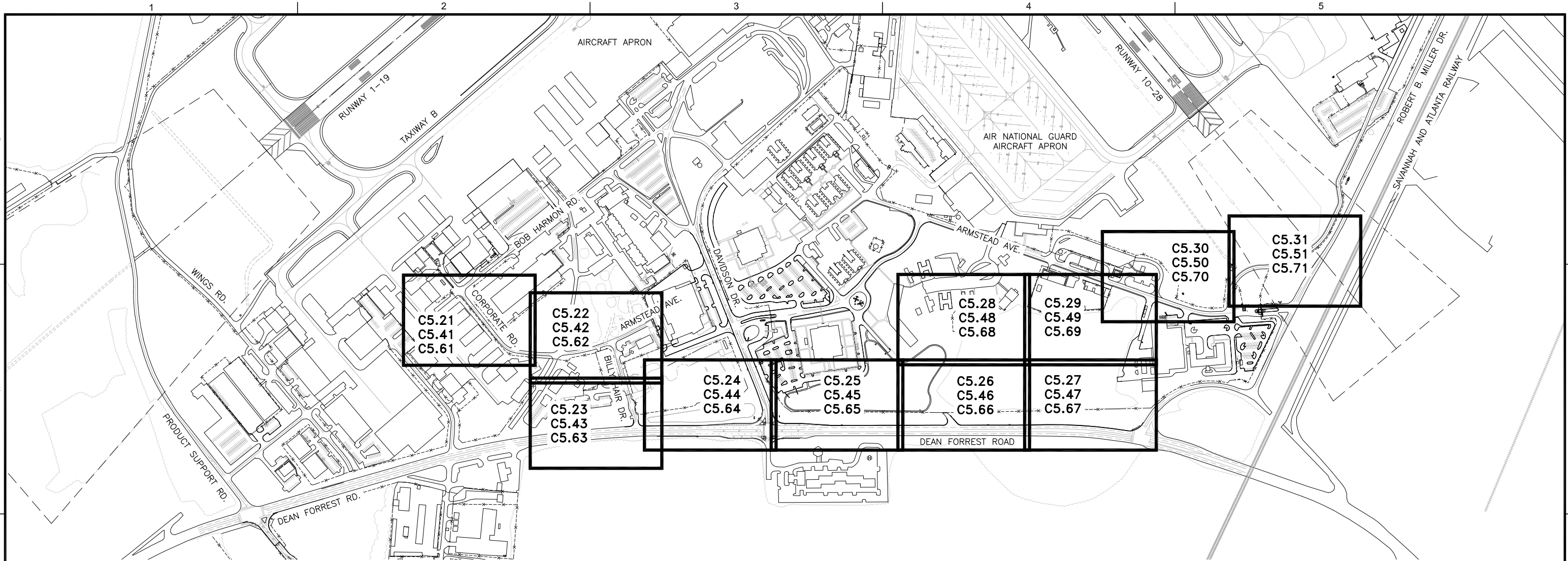
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

**PROPOSED DRAINAGE BASINS**

SHEET NO. **C5.08**

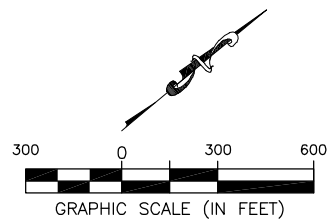


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C5-09 KEY PLAN EC.dwg LAYOUT NAME: C5-09 PLOTTED: Thursday, February 25, 2021 - 2:06pm USER: Norma.Presley



**GENERAL NOTES:**

1. BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
4. SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
5. SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
6. SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLAN AND NOTES.
7. SEE SHEET G3.01 FOR SAFETY DETAILS.
8. SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
9. SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
10. SEE SHEETS C1.11 THRU C1.15 FOR MAINTENANCE OF TRAFFIC PLANS AND NOTES.
11. SEE SHEETS C1.21 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
12. SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
13. SEE "C3" SERIES FOR NEW STORM SEWER PLAN & PROFILES.
14. SEE "C4" SERIES FOR GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
15. SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
16. SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
17. SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES AND DETAILS.
18. SEE "X1" SERIES FOR PROJECT CROSS SECTIONS.
19. SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.



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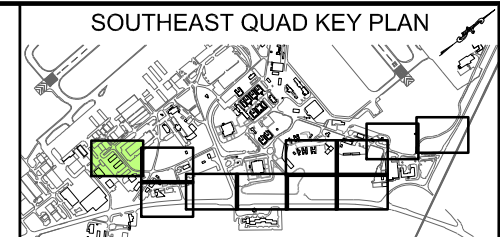
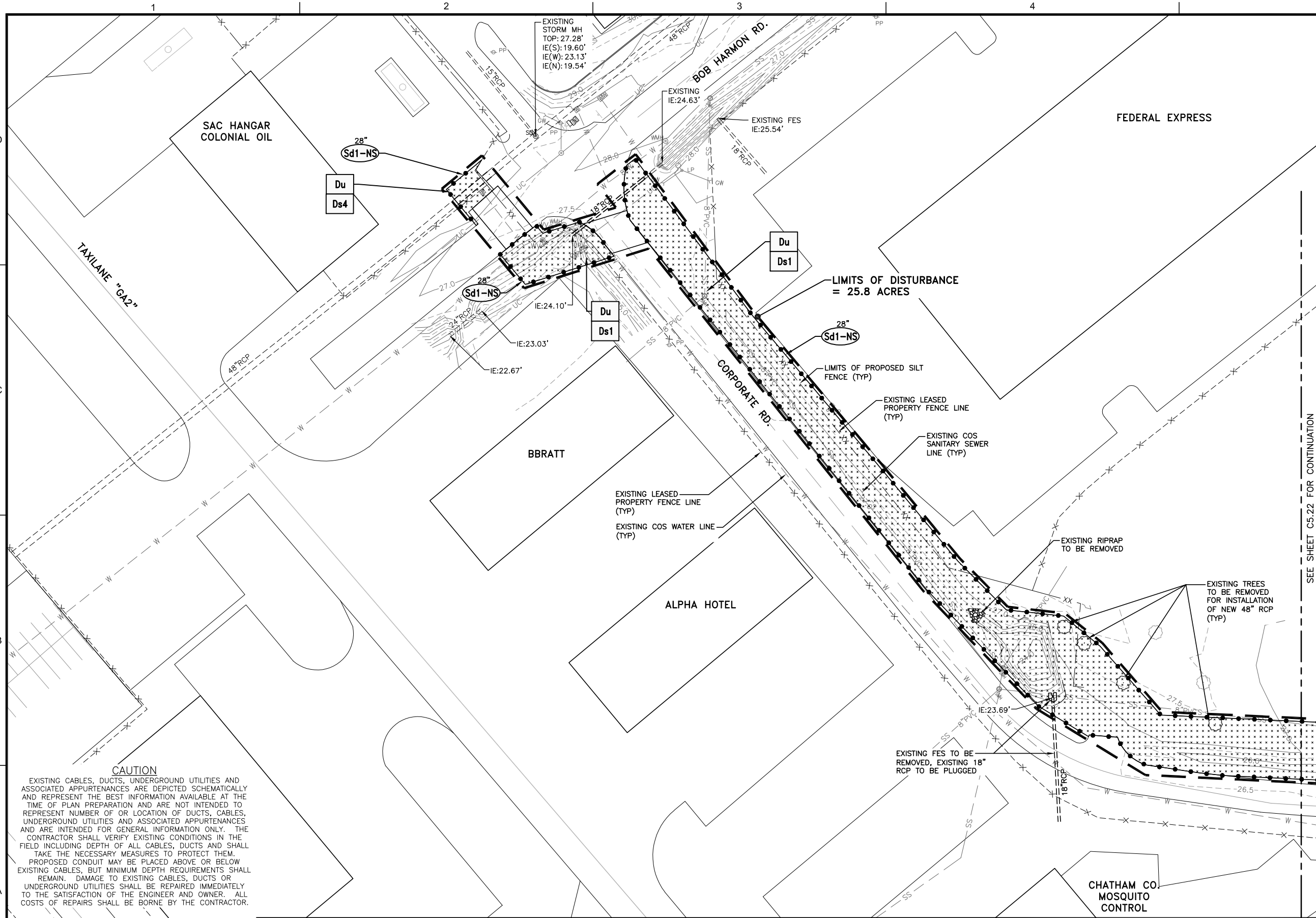
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CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE  
**EROSION AND SEDIMENT CONTROL KEY PLAN AND NOTES**

SHEET NO.  
**C5.09**

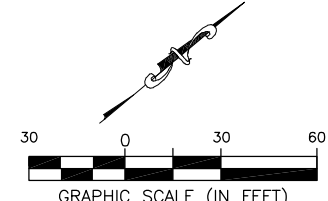
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- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:**  
CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.

SEE SHEET C5.22 FOR CONTINUATION

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (1)**

SHEET NO.: **C5.21**

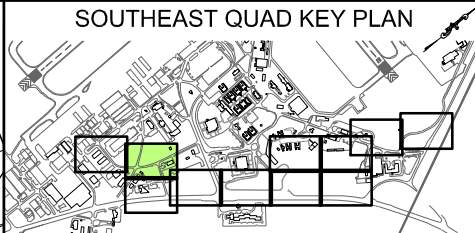
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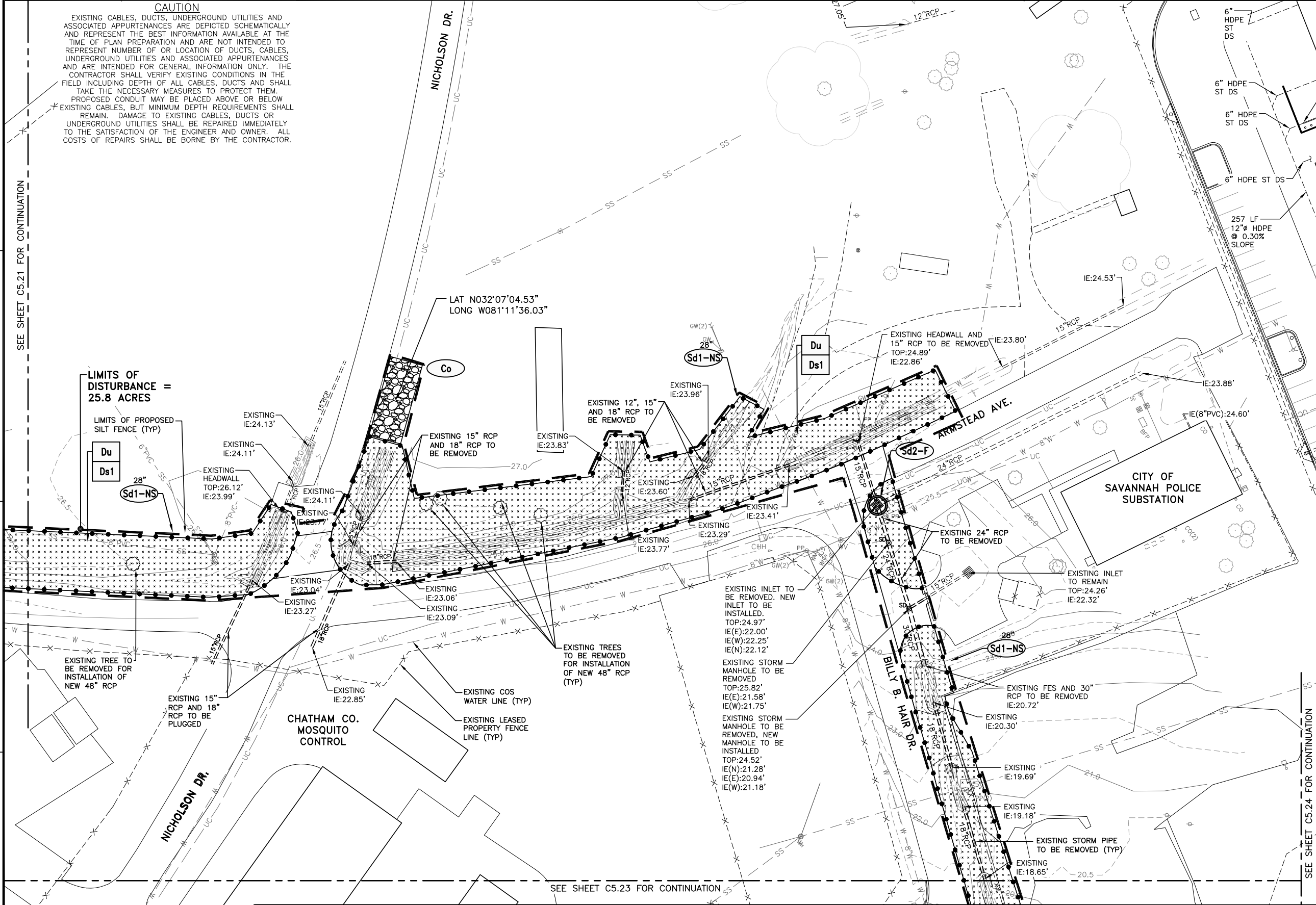
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-21-C4-31\_EC\_INITIAL.dwg LAYOUT NAME: C5-22 PLOTTED: Thursday, February 25, 2021 - 2:06pm USER: Norma.Pressley

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:** CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:** CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.



**LIMITS OF DISTURBANCE = 25.8 ACRES**

LIMITS OF PROPOSED SILT FENCE (TYP)

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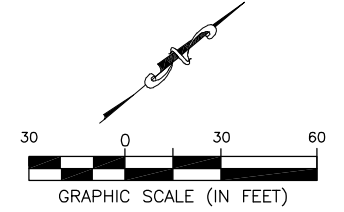
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PROJECT NO.	60611019
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (2)**

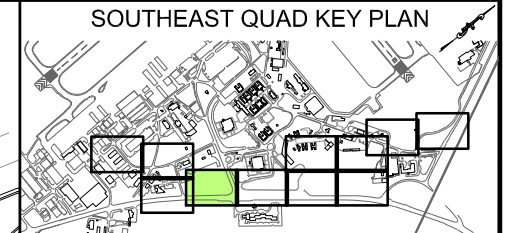
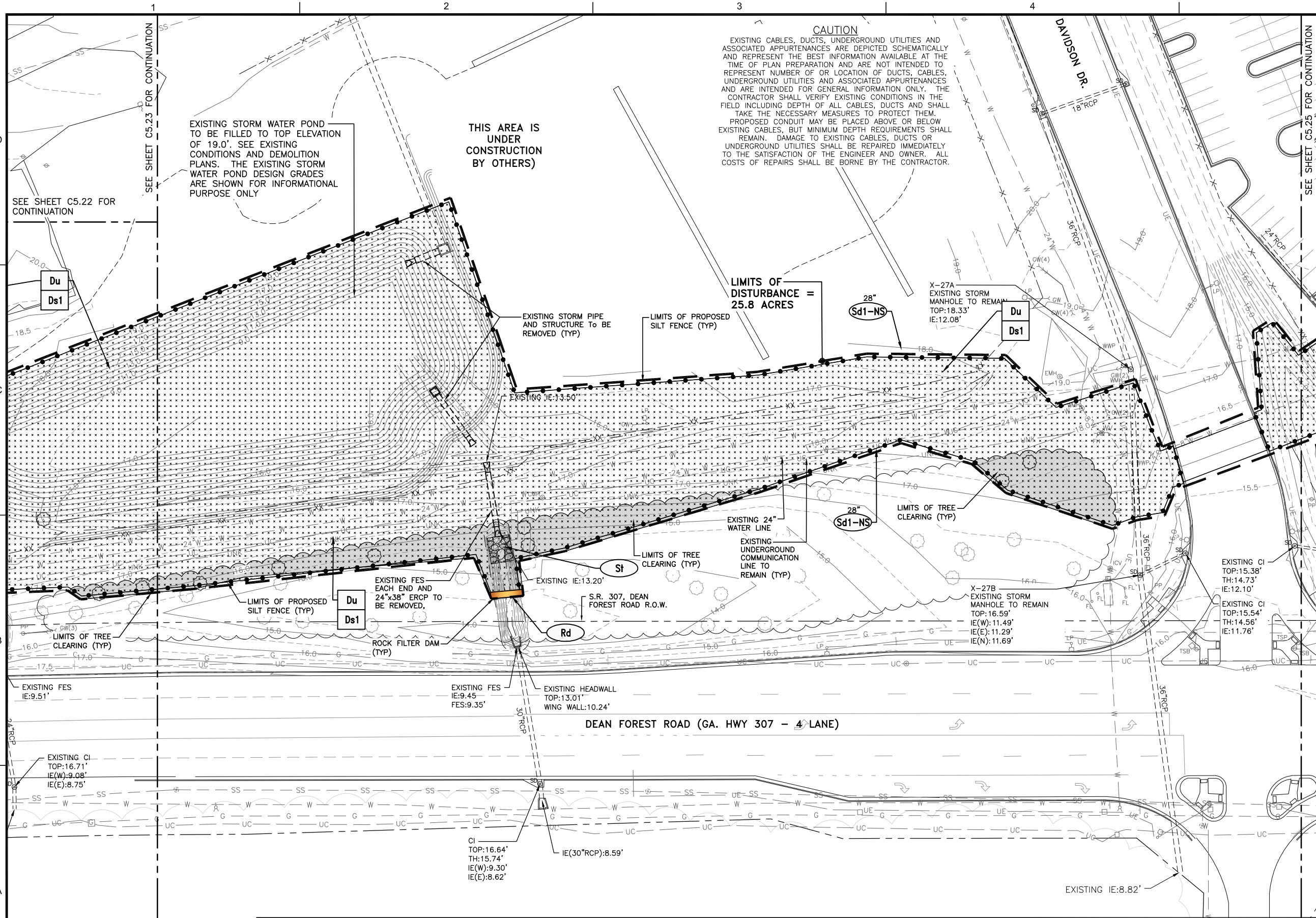
SHEET NO.: **C5.22**



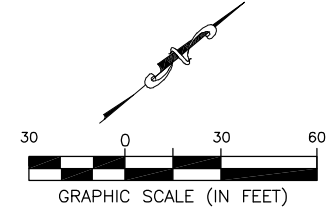




FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-21-C4-31\_EC\_INITIAL.dwg LAYOUT NAME: C5-24 PLOTTED: Thursday, February 25, 2021 - 2:07pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.



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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

**EROSION CONTROL PLAN INITIAL PHASE (4)**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (4)**

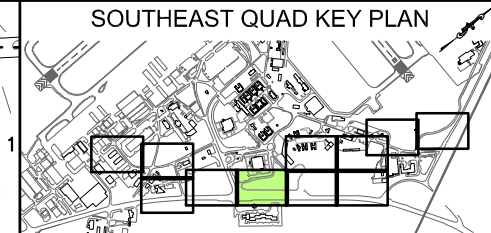
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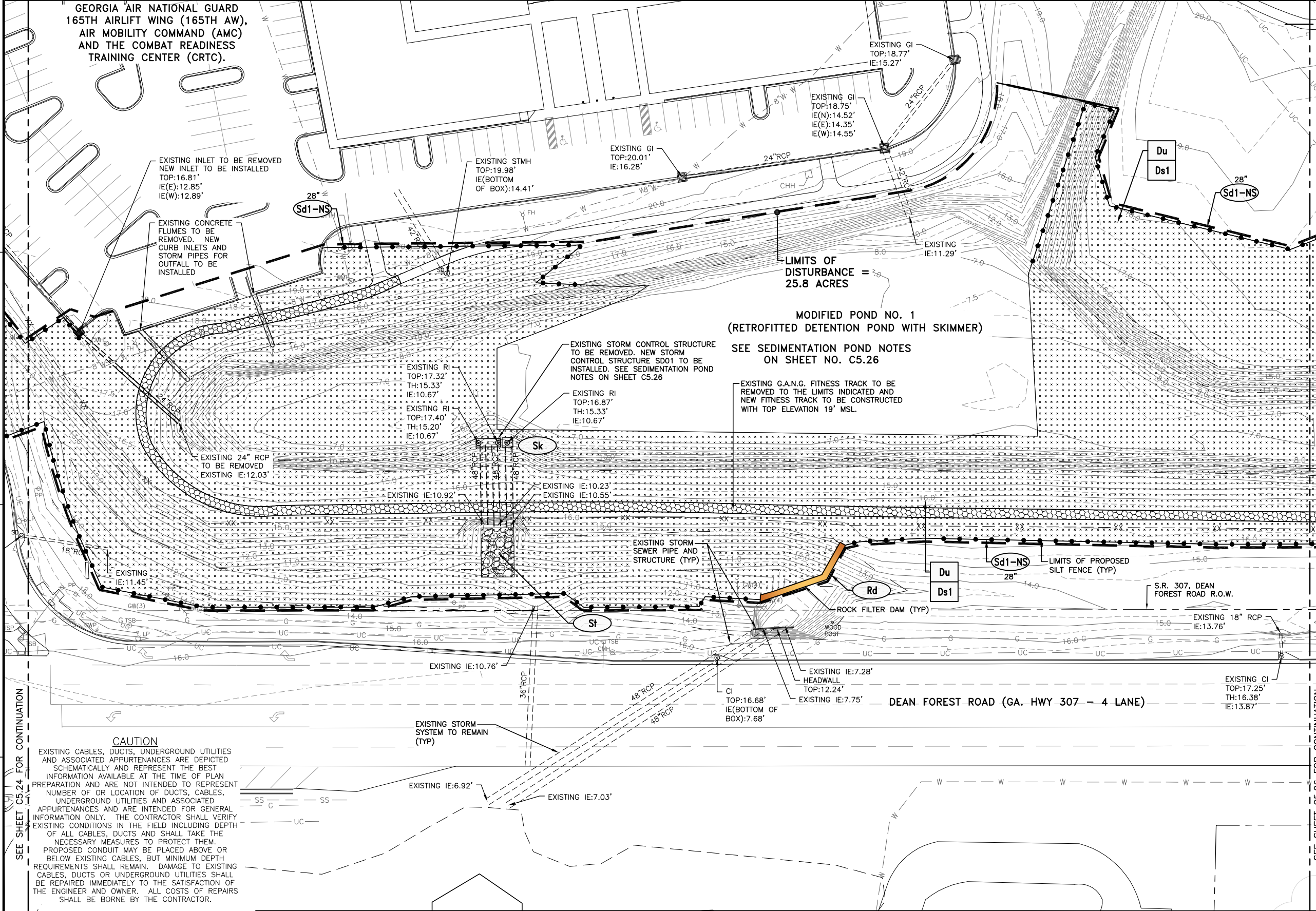


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GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

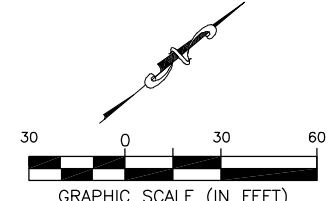


- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
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  - SAMPLING NOTE:**  
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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.



**POND NO. 1 LIMITS OF DISTURBANCE:**

- THE ENTIRE PERIMETER OF POND NO. 1 IS INCLUDED IN THE LIMITS OF DISTURBANCE BECAUSE POND NO. 1 IS UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION AND THE CONTRACTOR MAY HAVE TO ACCESS ALL OPEN WATER AREAS OF POND NO. 1 TO REMOVE SEDIMENT ACCUMULATED DURING CONSTRUCTION. THE PORTION OF POND NO. 1 OUTSIDE OF THE Sd1-NS SEDIMENT BARRIER IS NOT SHADED TO RECEIVE TEMPORARY MULCH, Ds1, AND DUST CONTROL, Du, BECAUSE THE AREA WILL REMAIN UNDISTURBED OTHER THAN THE OPEN WATER PORTION OF POND NO. 1 IN THE EVENT ACCUMULATED SEDIMENT IS REMOVED.



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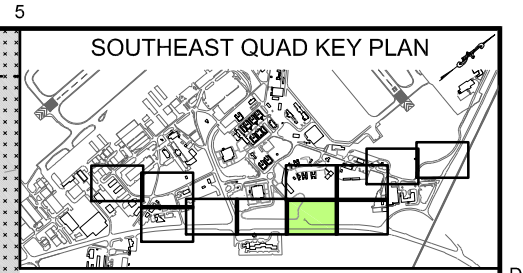
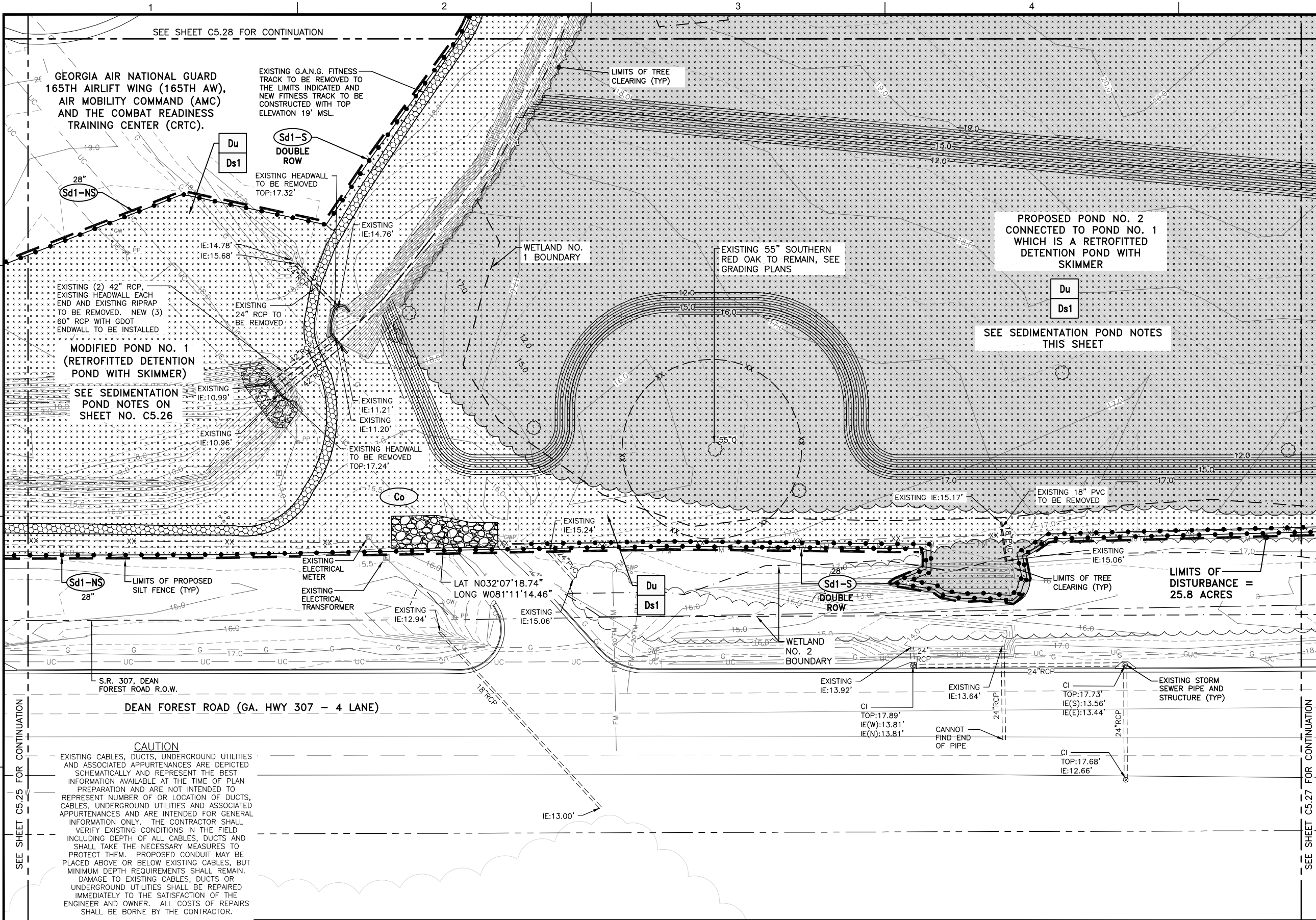
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (5)**

SHEET NO.: **C5.25**

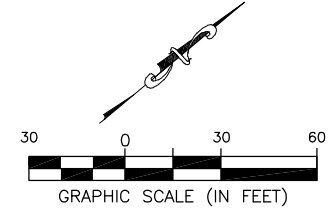


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- SEDIMENTATION POND NOTES:**
1. THE CONTRACTOR SHALL BEGIN EXCAVATING POND NO. 2 IMMEDIATELY AFTER CLEARING AND GRUBBING THE EAST END OF THE FORESTED WETLAND AS PART OF THE INITIAL EXCAVATION TO CONSTRUCT POND NO. 2 AS INDICATED BY THE PROPOSED CONTOURS FOR POND NO. 2 SHOWN ON SHEETS C5.26 AND C5.27. THE INITIAL EXCAVATION OF POND NO. 2 SHALL CONNECT TO THE EXISTING DITCH THAT IS CONNECTED TO THE UPSTREAM END OF THE EXISTING DOUBLE BARREL 42" RCP TO PROVIDE A HYDRAULIC CONNECTION WITH THE EXISTING POND NO. 1. POND NO. 1 AND POND NO. 2 SHALL FUNCTION AS A SEDIMENTATION POND DURING THE CONSTRUCTION PROCESS AND FUNCTION AS A PERMANENT BMP TO TREAT AND ATTENUATE STORMWATER AFTER CONSTRUCTION. THE SEDIMENTATION POND WILL INCREASE IN VOLUME AS THE MODIFICATIONS TO POND NO. 1 AND EXCAVATION OF POND NO. 2 PROGRESS DURING THE CONSTRUCTION PROCESS. THE HYDRAULIC CONNECTION BETWEEN POND NO. 1 AND POND NO. 2 WILL CHANGE WITH THE REMOVAL OF THE DOUBLE BARREL 42" RCP AND THE CONSTRUCTION OF THE TRIPLE BARREL 60-INCH RCP.
  2. THE EXISTING CONTROL STRUCTURE IN POND NO. 1 SHALL FUNCTION AS THE OUTFALL STRUCTURE FOR THE SEDIMENTATION POND UNTIL THE PROPOSED CONTROL STRUCTURE FOR POND NO. 1 IDENTIFIED AS SD01 IS INSTALLED.
  3. SKIMMERS SHALL BE ATTACHED TO THE EXISTING CONTROL STRUCTURE FOR POND NO. 1 AND THE PROPOSED SD01 CONTROL STRUCTURE FOR POND NO. 1 AS SHOWN ON SHEET C5.85 FOR THE PURPOSES OF DEWATERING THE TWO CONNECTED PONDS FROM THE SURFACE.

**CAUTION**  
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (6)**

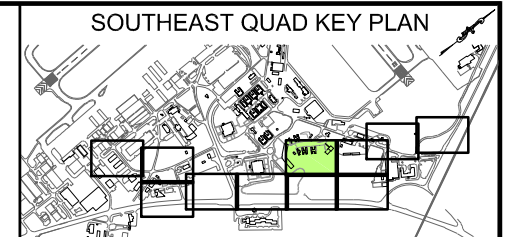
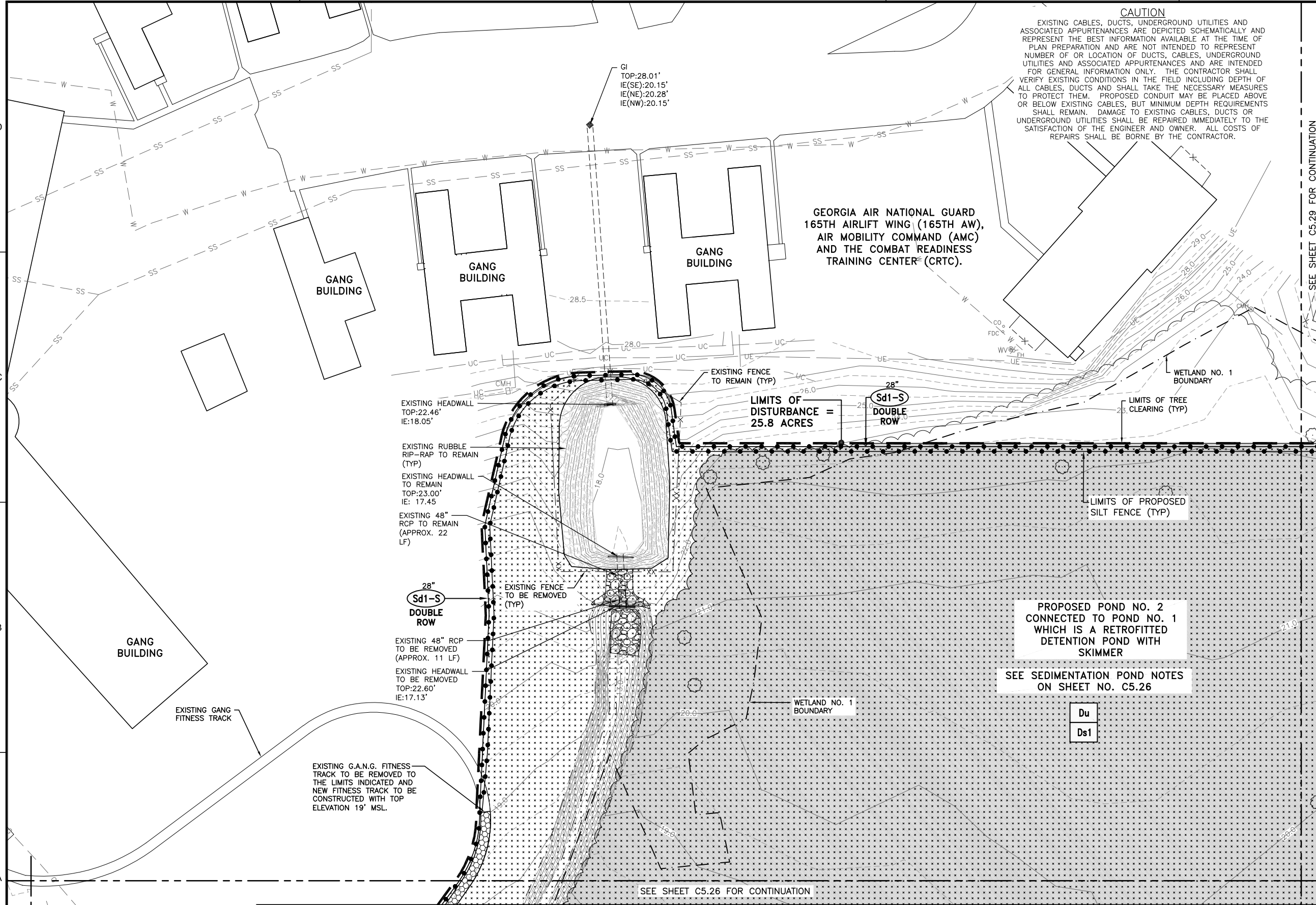
SHEET NO.: **C5.26**



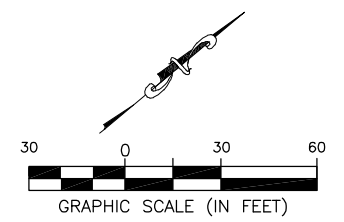




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- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:**  
CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.



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Savannah / Hilton Head International Airport  
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CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

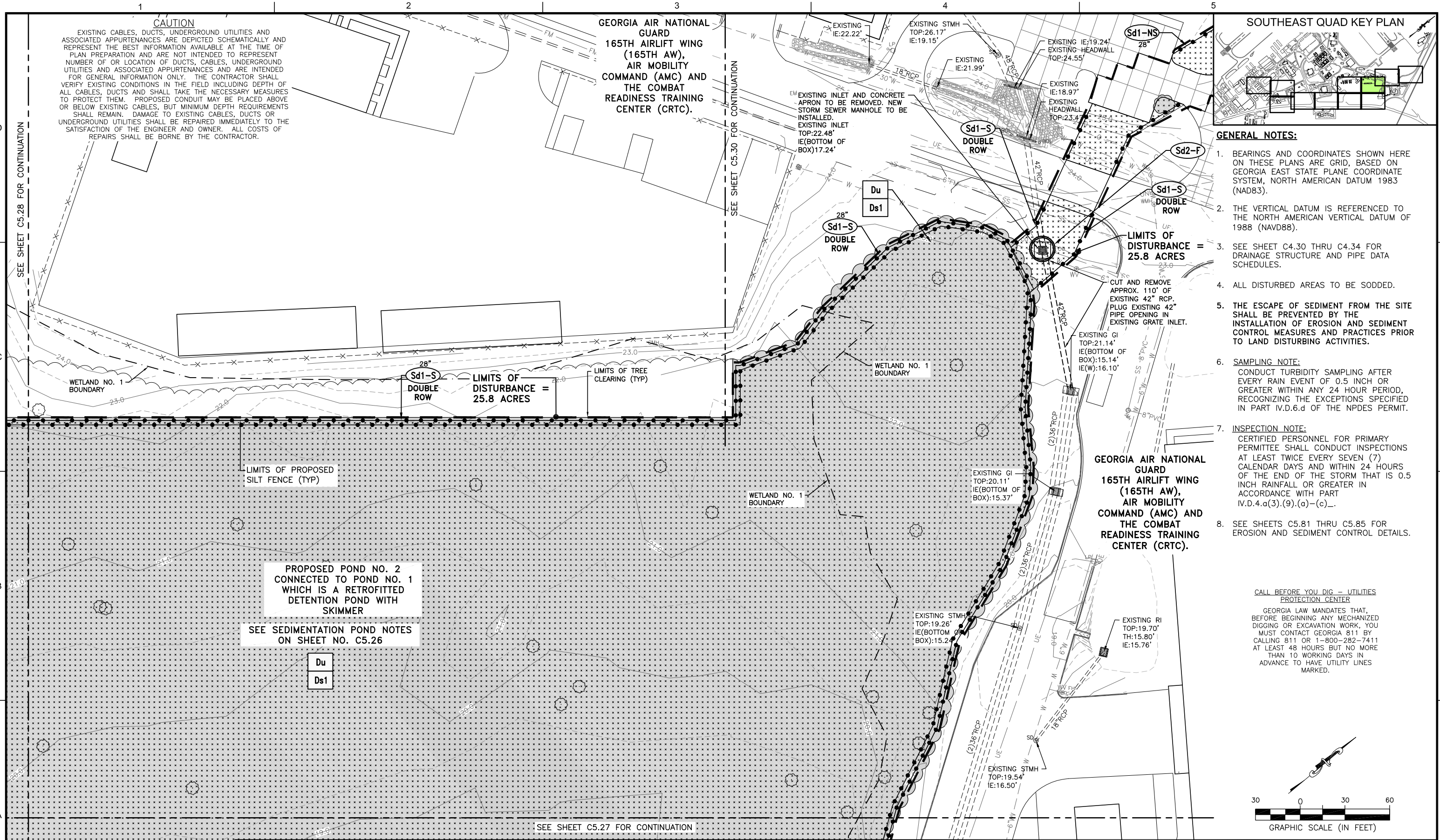
**EROSION CONTROL PLAN INITIAL PHASE (8)**

SHEET NO. **C5.28**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C5-21-C4-31\_EC\_INITIAL.dwg LAYOUT NAME: C5-29 PLOTTED: Thursday, February 25, 2021 - 2:07pm USER: Norma.Pressley



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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

**EROSION CONTROL PLAN INITIAL PHASE (9)**

SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (9)**

SHEET NO.: **C5.29**

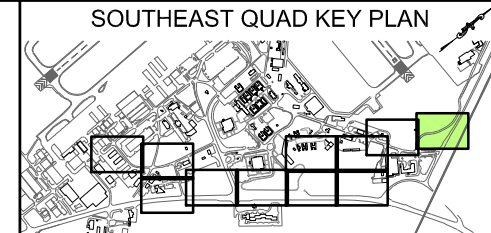
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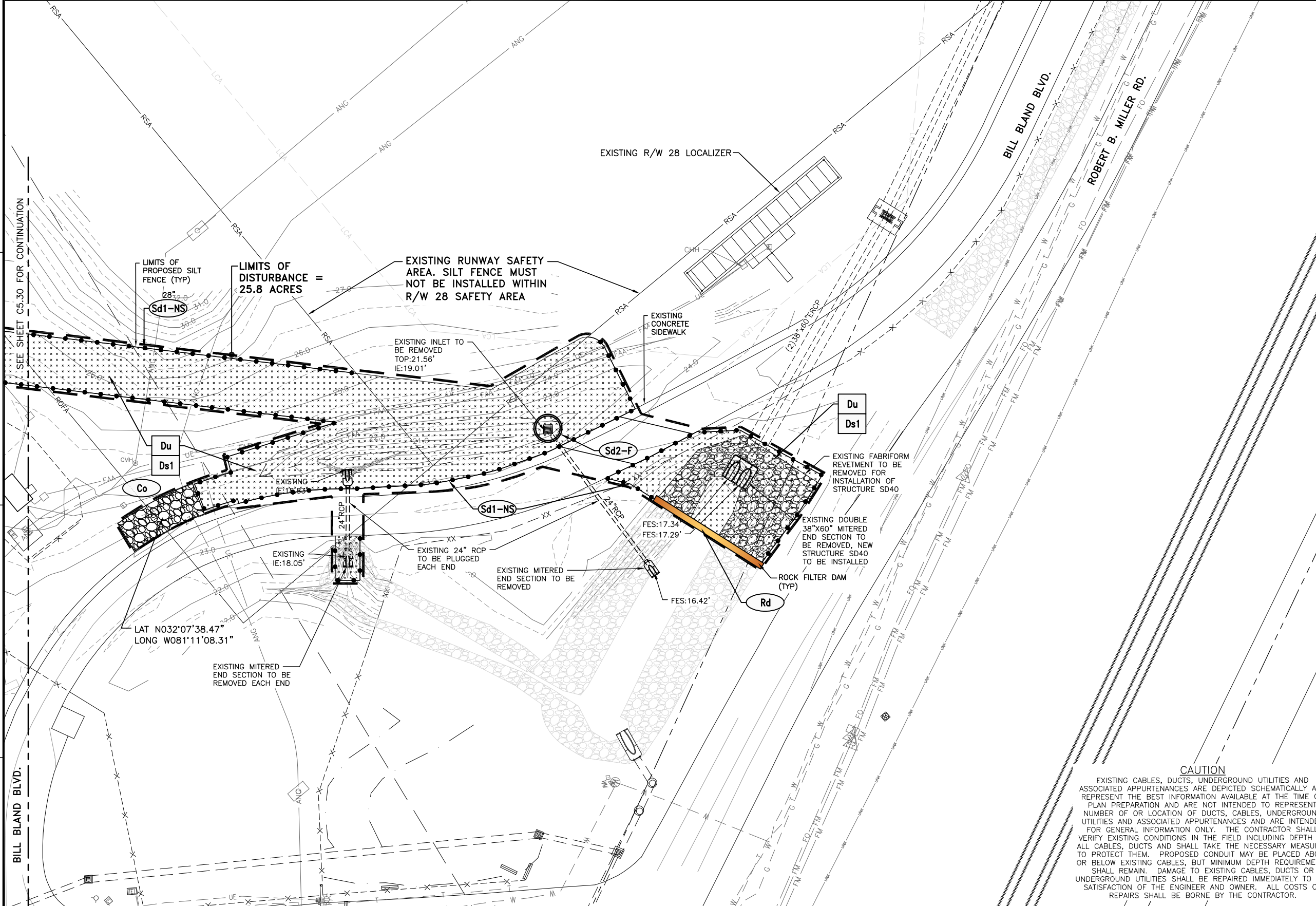




FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\C5-21-C4-31-EC\_INITIAL.dwg LAYOUT NAME: C5-31 PLOTTED: Thursday, February 25, 2021 - 2:07pm USER: Norma.Pressley

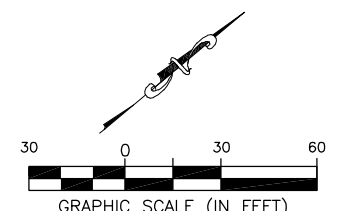


- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

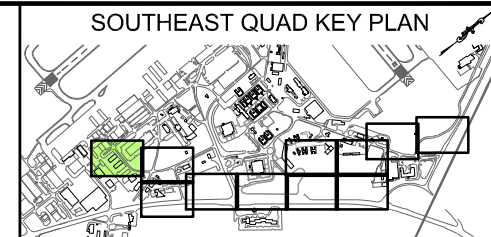
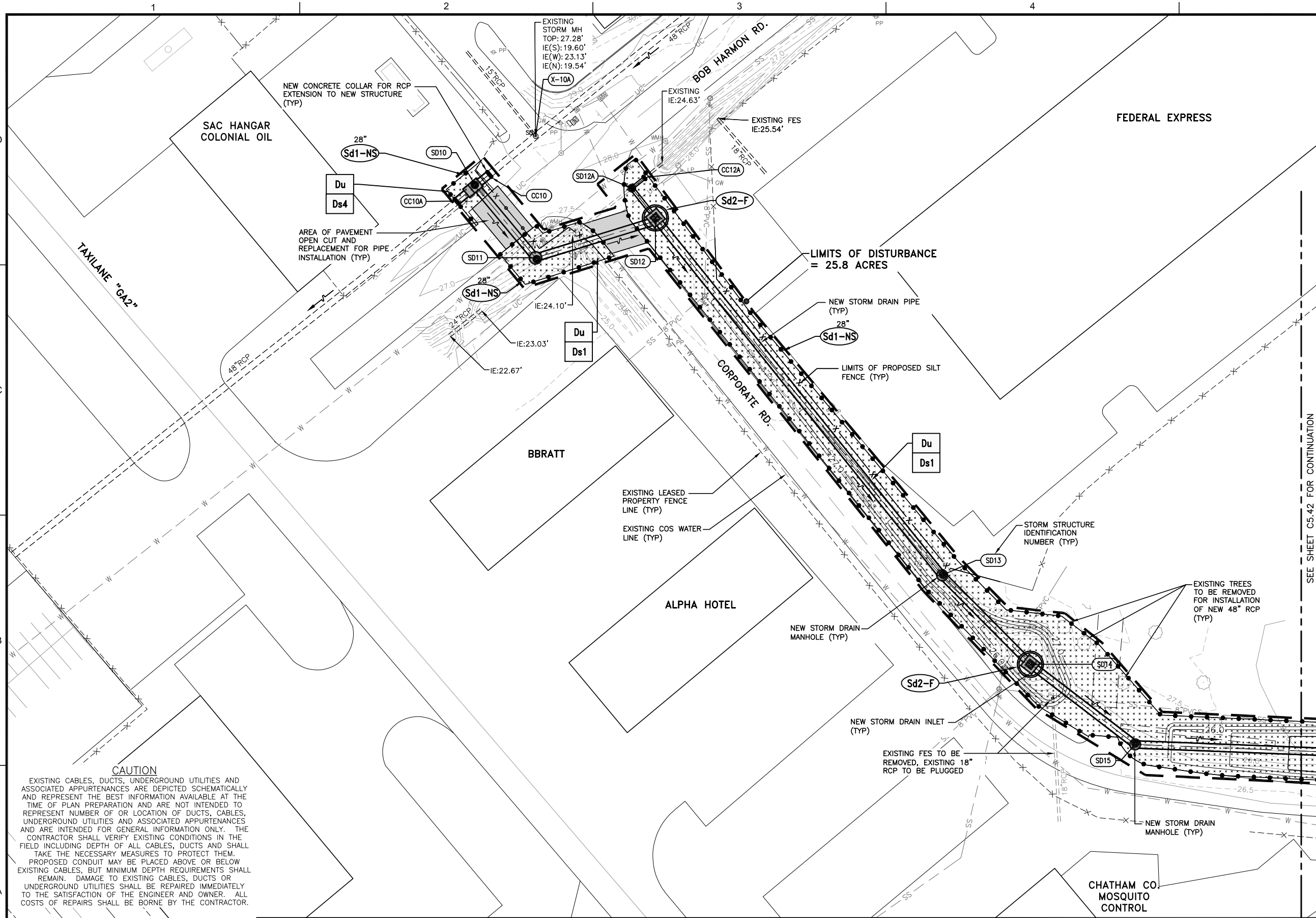
SHEET TITLE: **EROSION CONTROL PLAN INITIAL PHASE (11)**

SHEET NO.: **C5.31**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg LAYOUT NAME: C5-41 EC\_INTER.dwg PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley

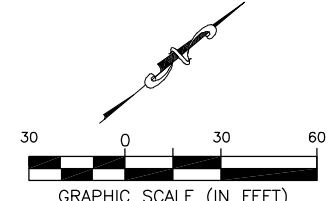


- GENERAL NOTES:**
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  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

SEE SHEET C5.42 FOR CONTINUATION

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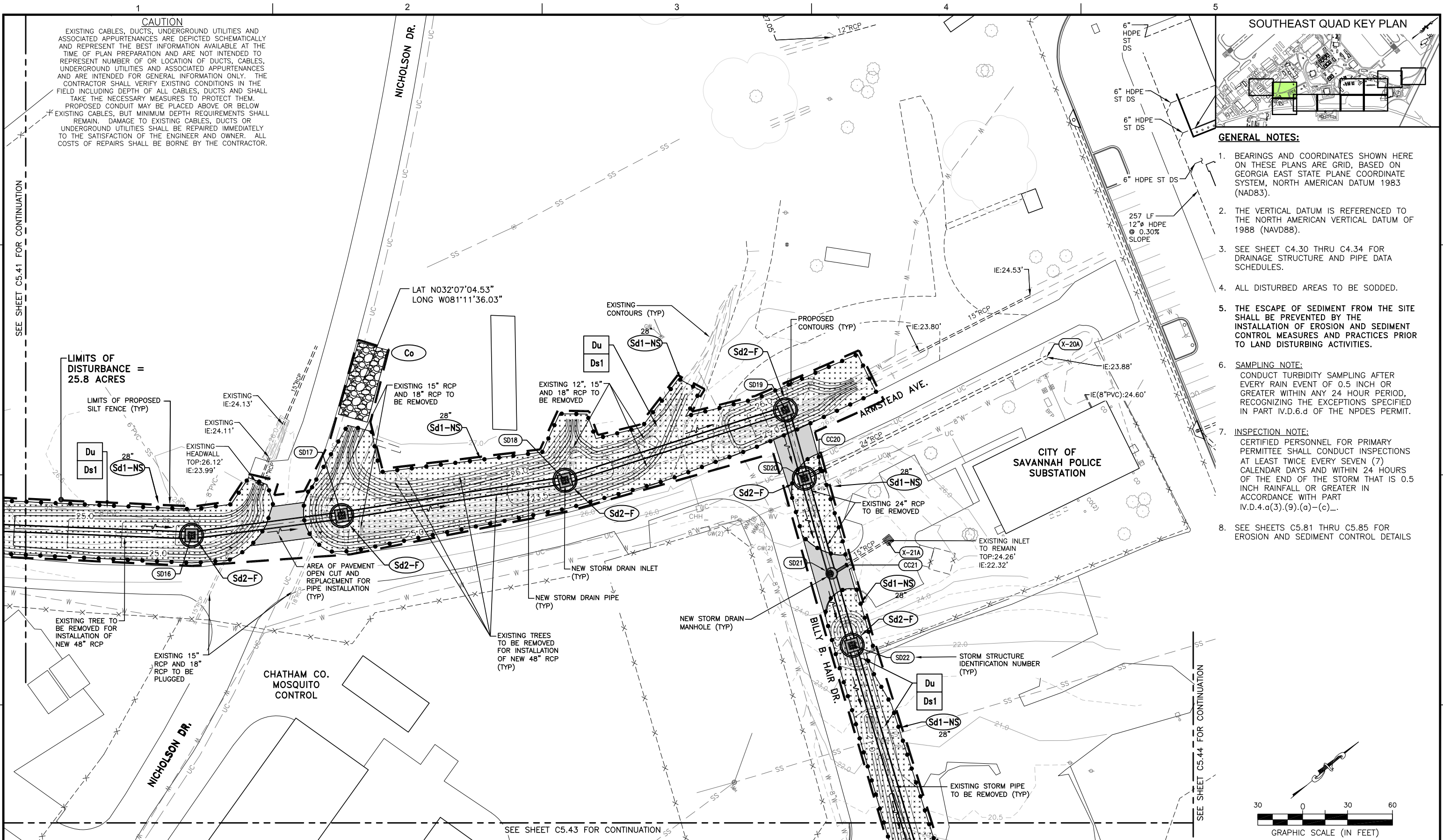
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

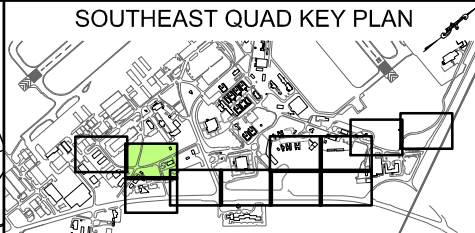
SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (1)**

SHEET NO.: **C5.41**

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C5-41-C4-51 EC INTER.dwg LAYOUT NAME: C5-42 PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley



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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

LIMITS OF DISTURBANCE = 25.8 ACRES

LIMITS OF PROPOSED SILT FENCE (TYP)

CHATHAM CO. MOSQUITO CONTROL

CITY OF SAVANNAH POLICE SUBSTATION

SEE SHEET C5.43 FOR CONTINUATION

SEE SHEET C5.44 FOR CONTINUATION

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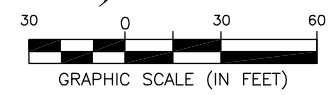
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

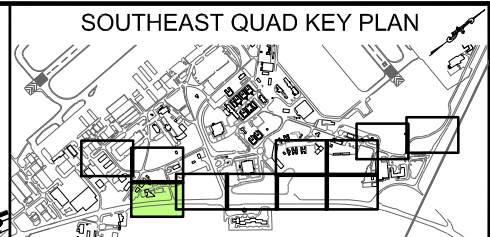
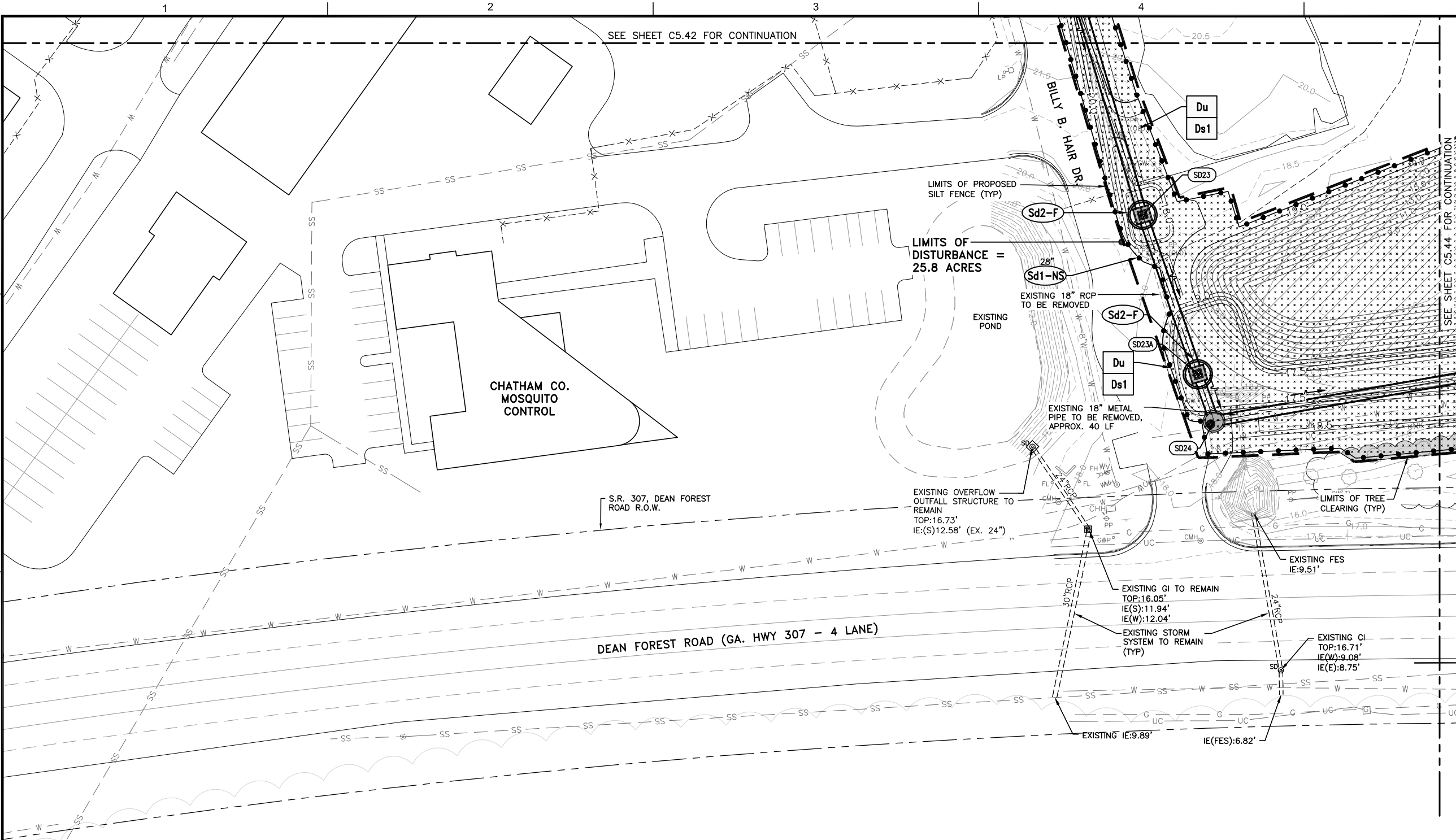
SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (2)**

SHEET NO. **C5.42**



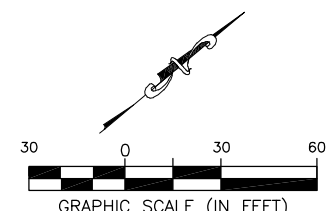


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C5-41-C4-51 EC INTER.dwg LAYOUT NAME: C5-43 PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley



- GENERAL NOTES:**
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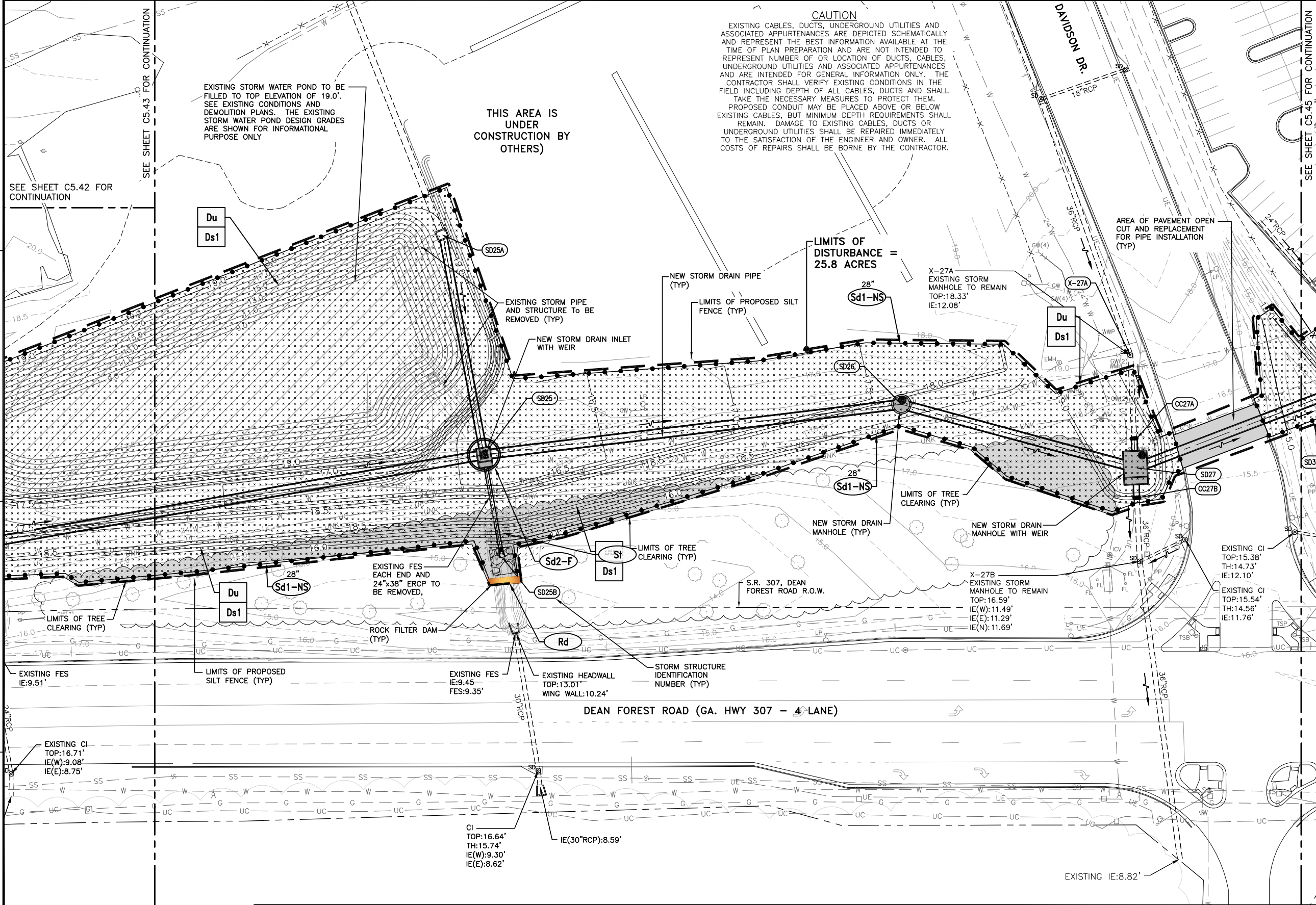
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (3)**

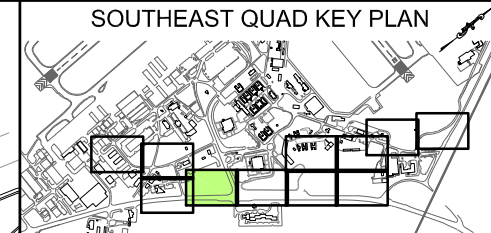
SHEET NO.: **C5.43**



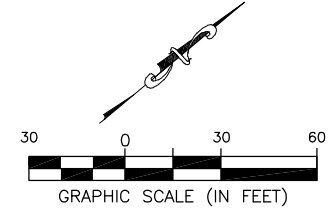
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg LAYOUT NAME: C5-44 PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley



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DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

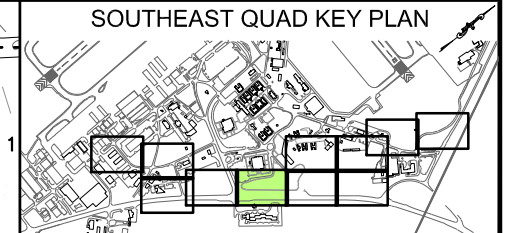
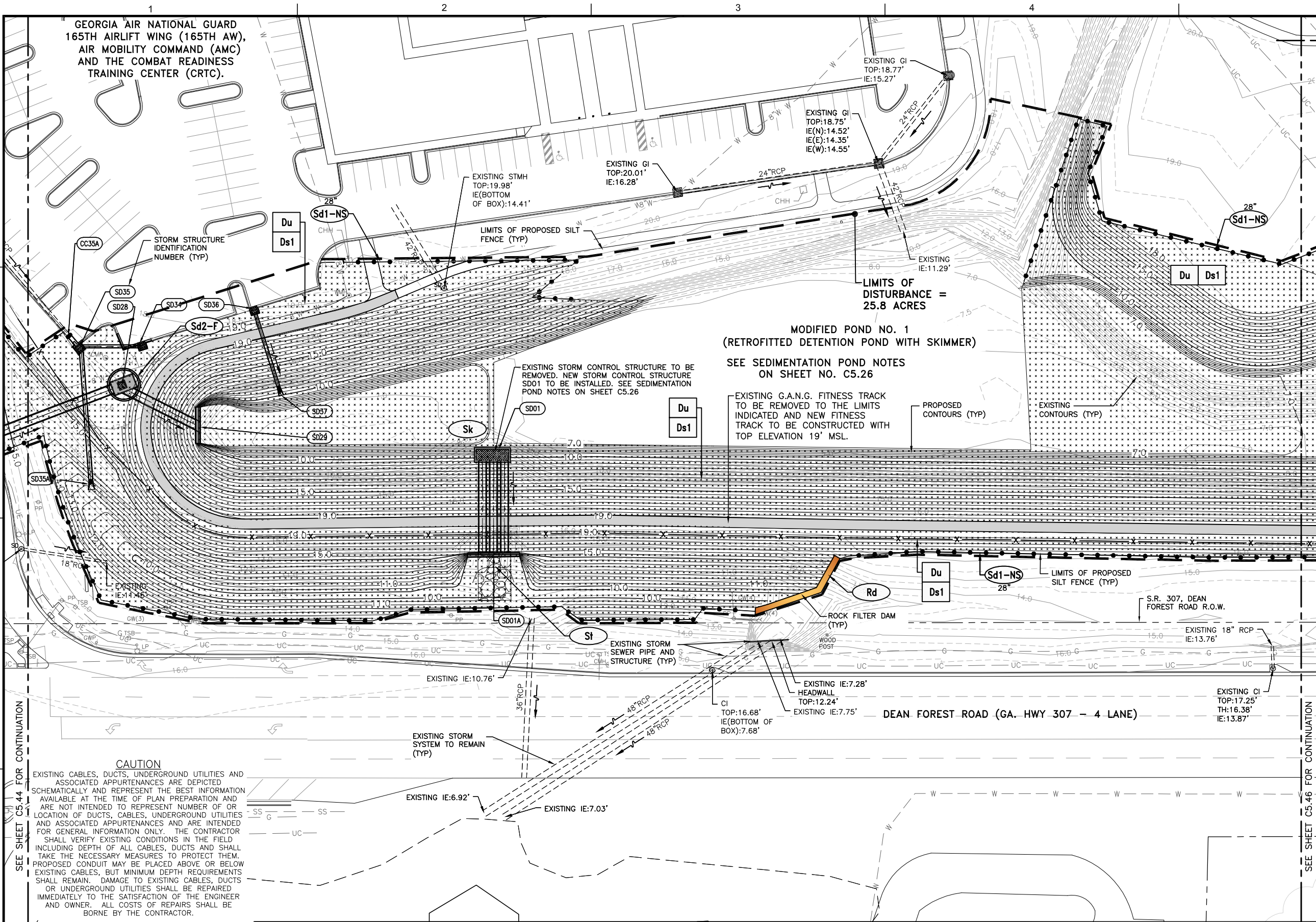
SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (4)**

SHEET NO.: **C5.44**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

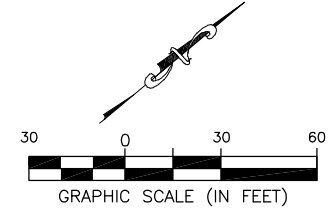


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:**  
CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

- POND NO. 1 LIMITS OF DISTURBANCE:**
- THE ENTIRE PERIMETER OF POND NO. 1 IS INCLUDED IN THE LIMITS OF DISTURBANCE BECAUSE POND NO. 1 IS UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION AND THE CONTRACTOR MAY HAVE TO ACCESS ALL THE OPEN WATER AREAS OF POND NO. 1 TO REMOVE SEDIMENT ACCUMULATED DURING CONSTRUCTION. THE PORTION OF POND NO. 1 OUTSIDE OF THE Sd1-NS SEDIMENT BARRIER IS NOT SHADED TO RECEIVE TEMPORARY MULCH, Ds1, AND DUST CONTROL, Du, BECAUSE THE AREA WILL REMAIN UNDISTURBED OTHER THAN THE OPEN WATER PORTION OF POND NO. 1 IN THE EVENT ACCUMULATED SEDIMENT IS REMOVED.



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MAR. 2021	BID DOCUMENTS	APD	RWP

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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

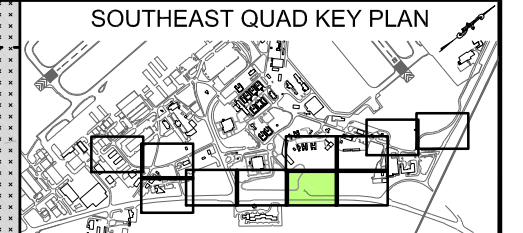
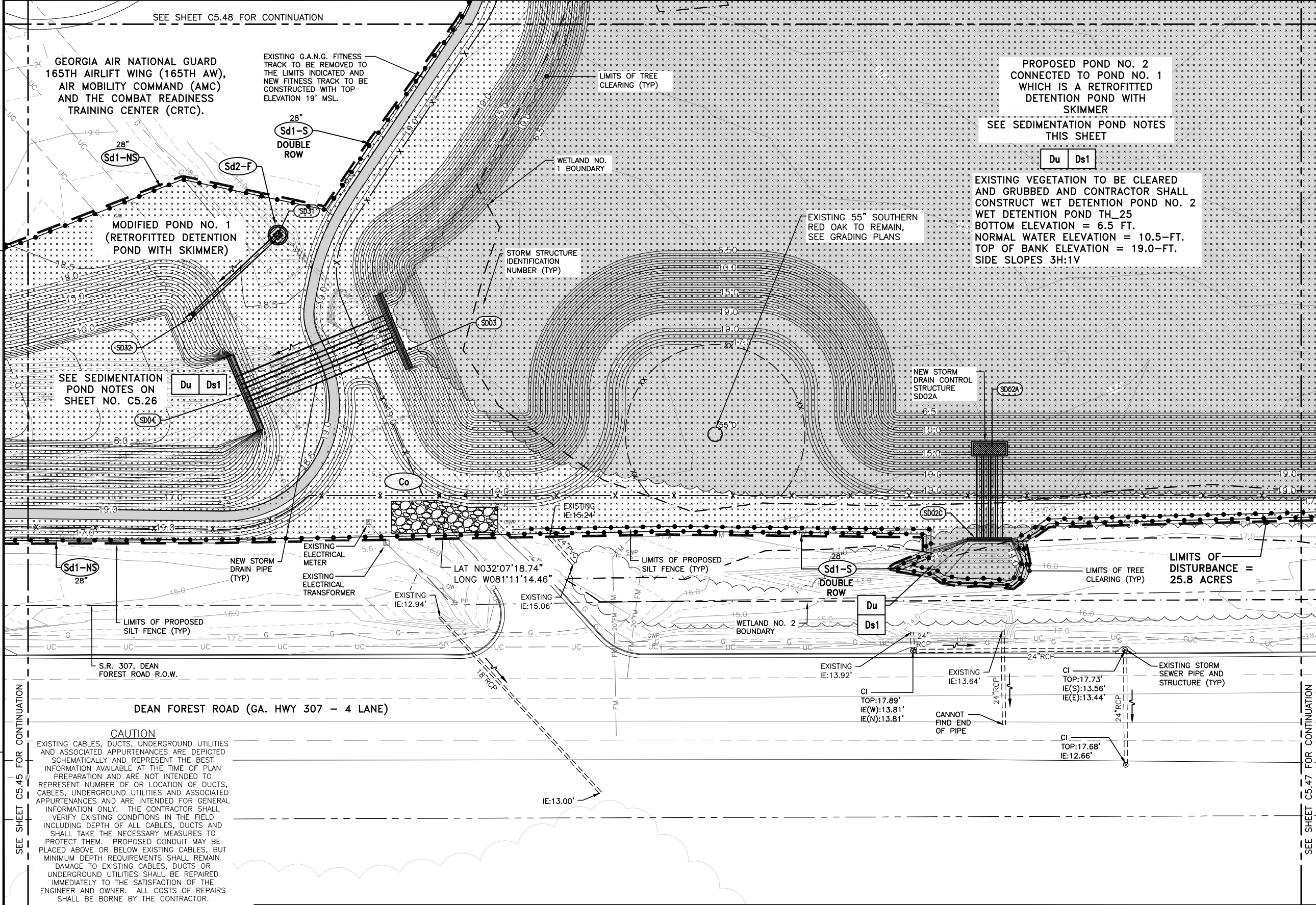
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (5)**

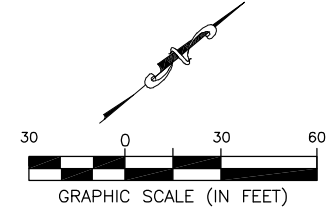
SHEET NO.: **C5.45**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg LAYOUT NAME: C5-46 PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:** CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:** CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



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DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

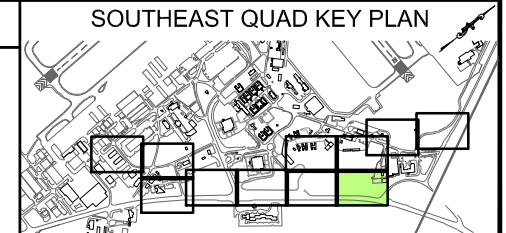
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (6)**

SHEET NO. **C5.46**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"





- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:**  
CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

PROPOSED POND NO. 2  
CONNECTED TO POND NO. 1  
WHICH IS A RETROFITTED  
DETENTION POND WITH  
SKIMMER

SEE SEDIMENTATION POND NOTES  
ON SHEET NO. C5.26

EXISTING VEGETATION TO BE CLEARED  
AND GRUBBED AND CONTRACTOR SHALL  
CONSTRUCT WET DETENTION POND NO. 2  
WET DETENTION POND TH\_25  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 10.5-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
SIDE SLOPES 3H:1V

LIMITS OF  
DISTURBANCE =  
25.8 ACRES

DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

SEE SHEET C5.46 FOR CONTINUATION

CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
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AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

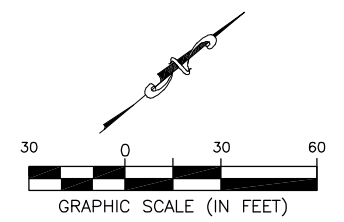
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400 Airways Avenue  
Savannah, Georgia 31408

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CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE  
**EROSION CONTROL PLAN INTERMEDIATE PHASE (7)**

SHEET NO.  
**C5.47**



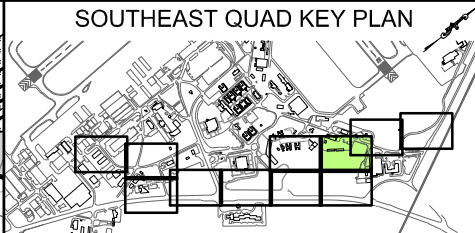
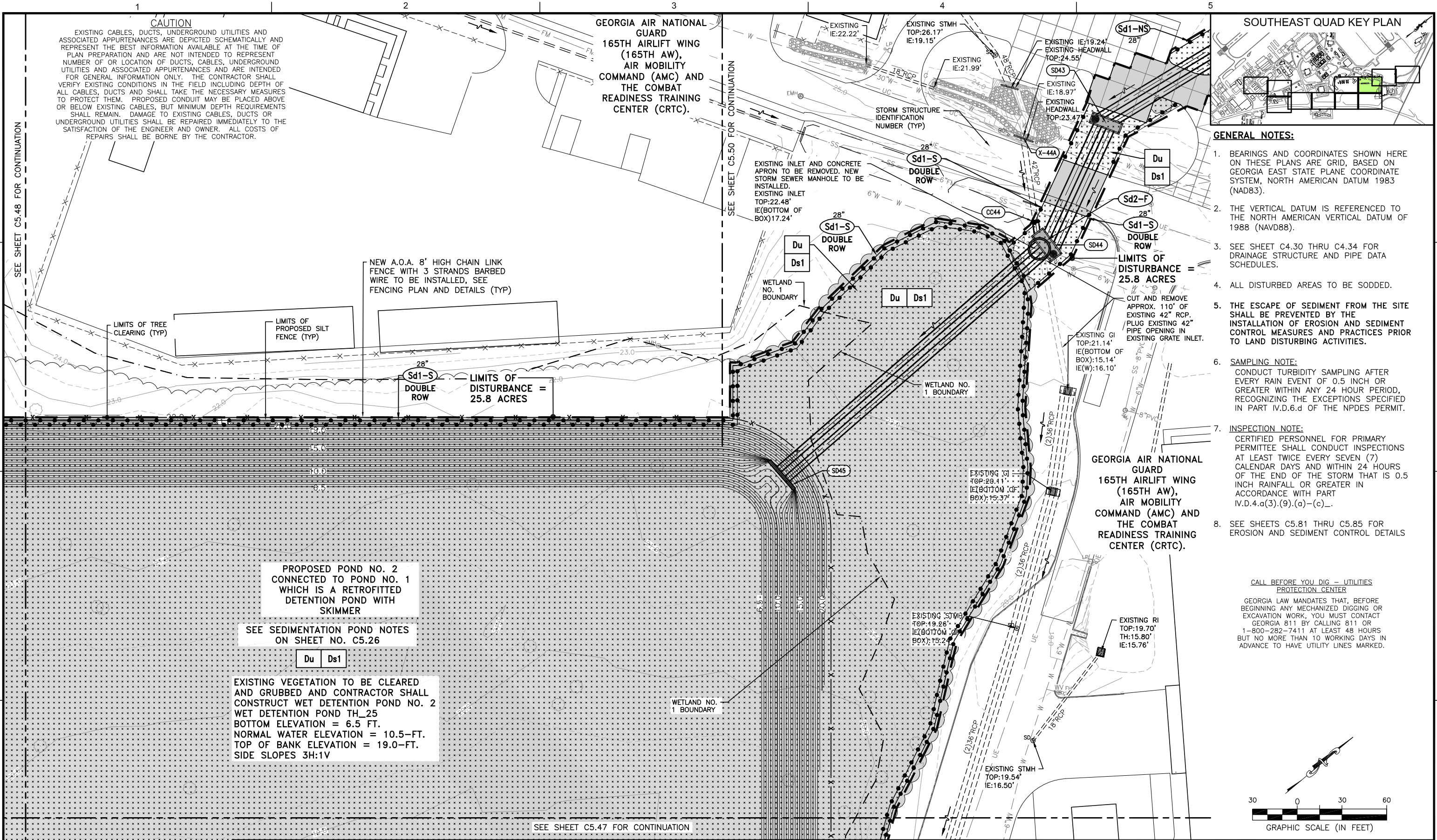
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg LAYOUT NAME: C5-47 PLOTTED: Thursday, February 25, 2021 - 2:08pm USER: Norma.Pressley







FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910 CAD\20-SHEETS\C5-41-C4-51 EC INTER.dwg LAYOUT NAME: C5-49 PLOTTED: Thursday, February 25, 2021 - 2:09pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:** CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d OF THE NPDES PERMIT.
  - INSPECTION NOTE:** CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

**CALL BEFORE YOU DIG -- UTILITIES PROTECTION CENTER**  
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**PROPOSED POND NO. 2 CONNECTED TO POND NO. 1 WHICH IS A RETROFITTED DETENTION POND WITH SKIMMER**  
 SEE SEDIMENTATION POND NOTES ON SHEET NO. C5.26  
 Du Ds1  
 EXISTING VEGETATION TO BE CLEARED AND GRUBBED AND CONTRACTOR SHALL CONSTRUCT WET DETENTION POND NO. 2 WET DETENTION POND TH\_25  
 BOTTOM ELEVATION = 6.5 FT.  
 NORMAL WATER ELEVATION = 10.5-FT.  
 TOP OF BANK ELEVATION = 19.0-FT.  
 SIDE SLOPES 3H:1V

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 Tel: 813.286.1711

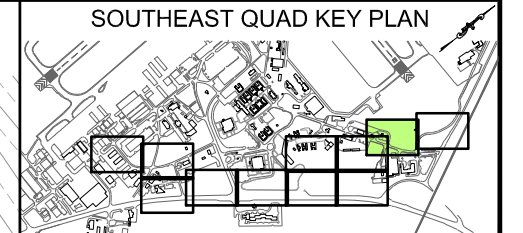
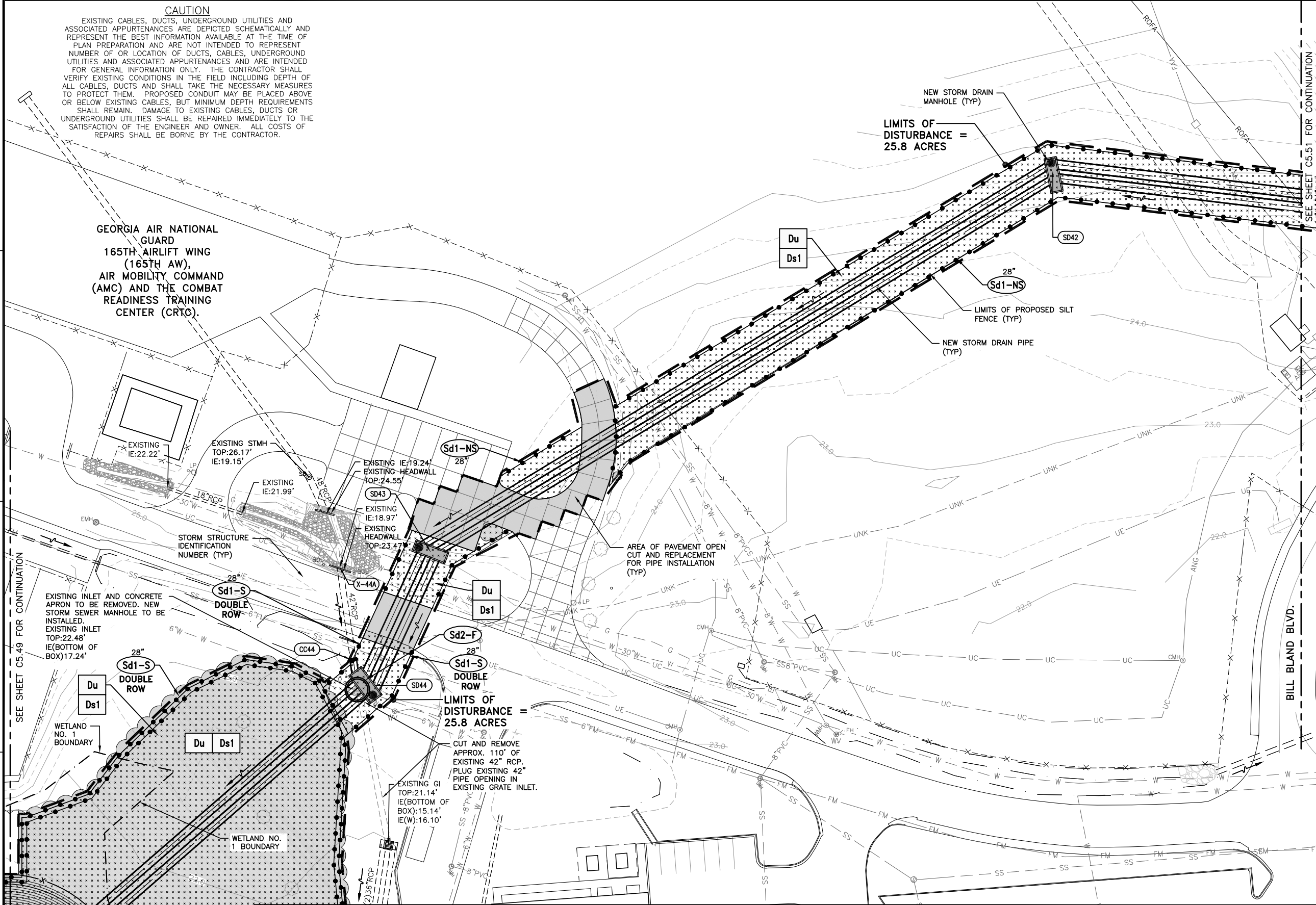
**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM: RWP
DWG. BY: APD
CHK. BY: SGH
DSG. BY: RWP
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**  
 SHEET TITLE  
**EROSION CONTROL PLAN INTERMEDIATE PHASE (9)**  
 SHEET NO. C5.49

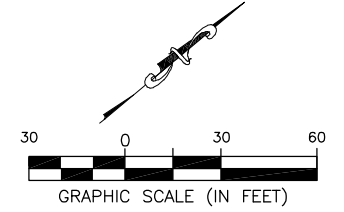


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C5-41-C4-51\_EC\_INTER.dwg LAYOUT NAME: C5-50 PLOTTED: Thursday, February 25, 2021 - 2:09pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
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  - INSPECTION NOTE:**  
CERTIFIED PERSONNEL FOR PRIMARY PERMITTEE SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCH RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a(3).(9).(a)-(c).
  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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SCALE:	AS NOTED
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

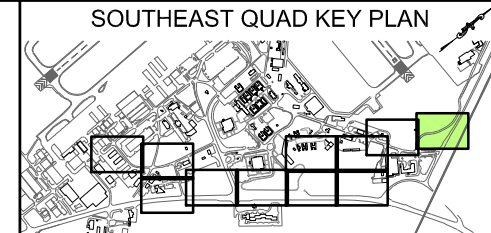
SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (10)**

SHEET NO.: **C5.50**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



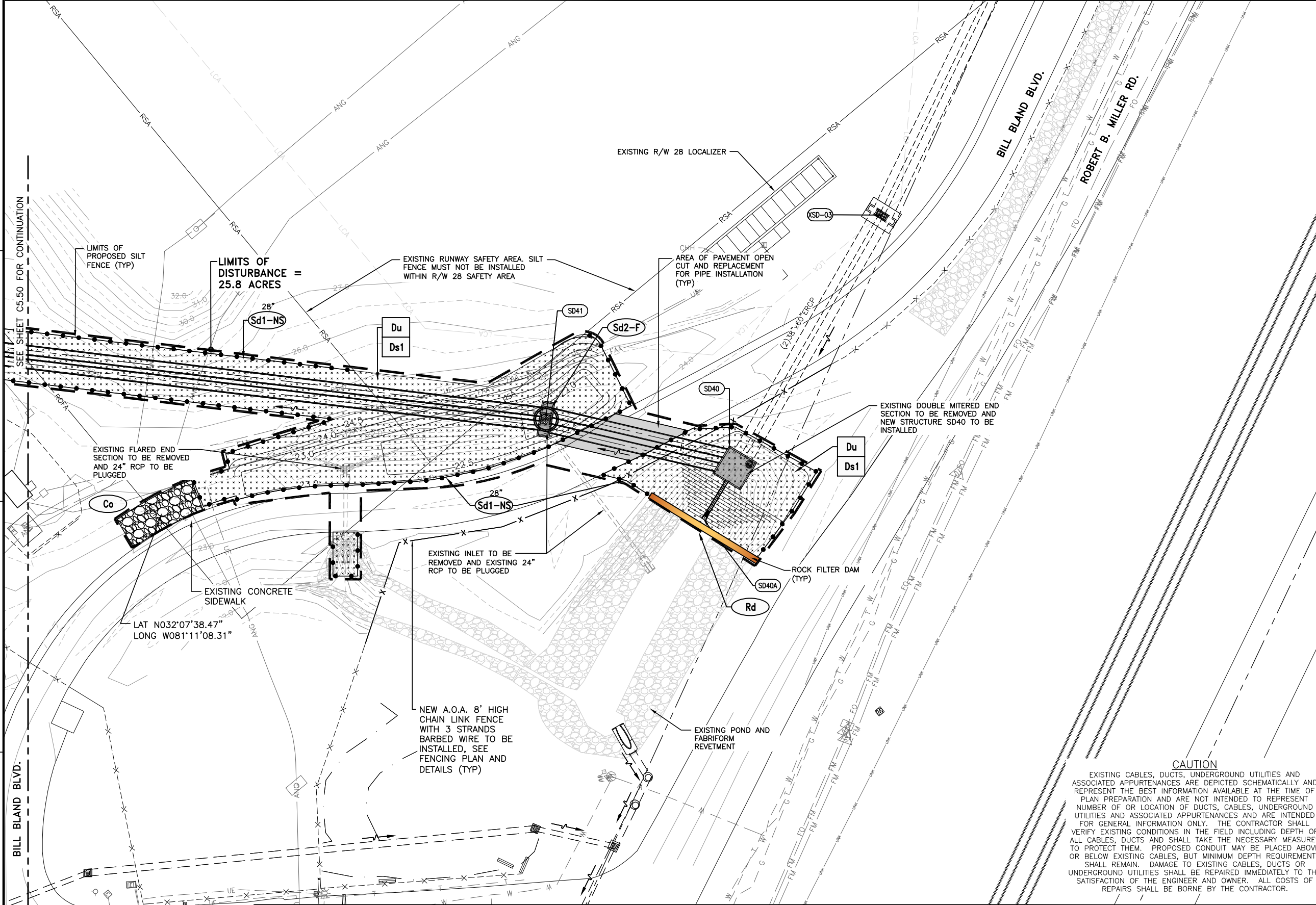
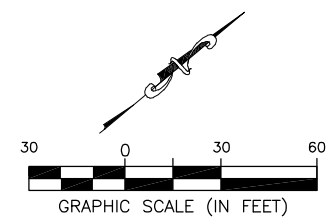
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- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
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  - INSPECTION NOTE:**  
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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS

**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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**CAUTION**  
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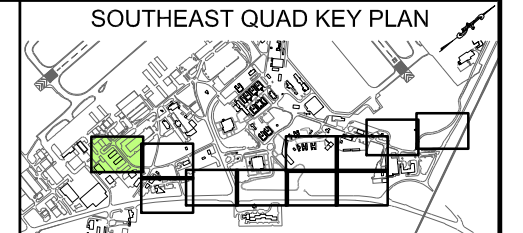
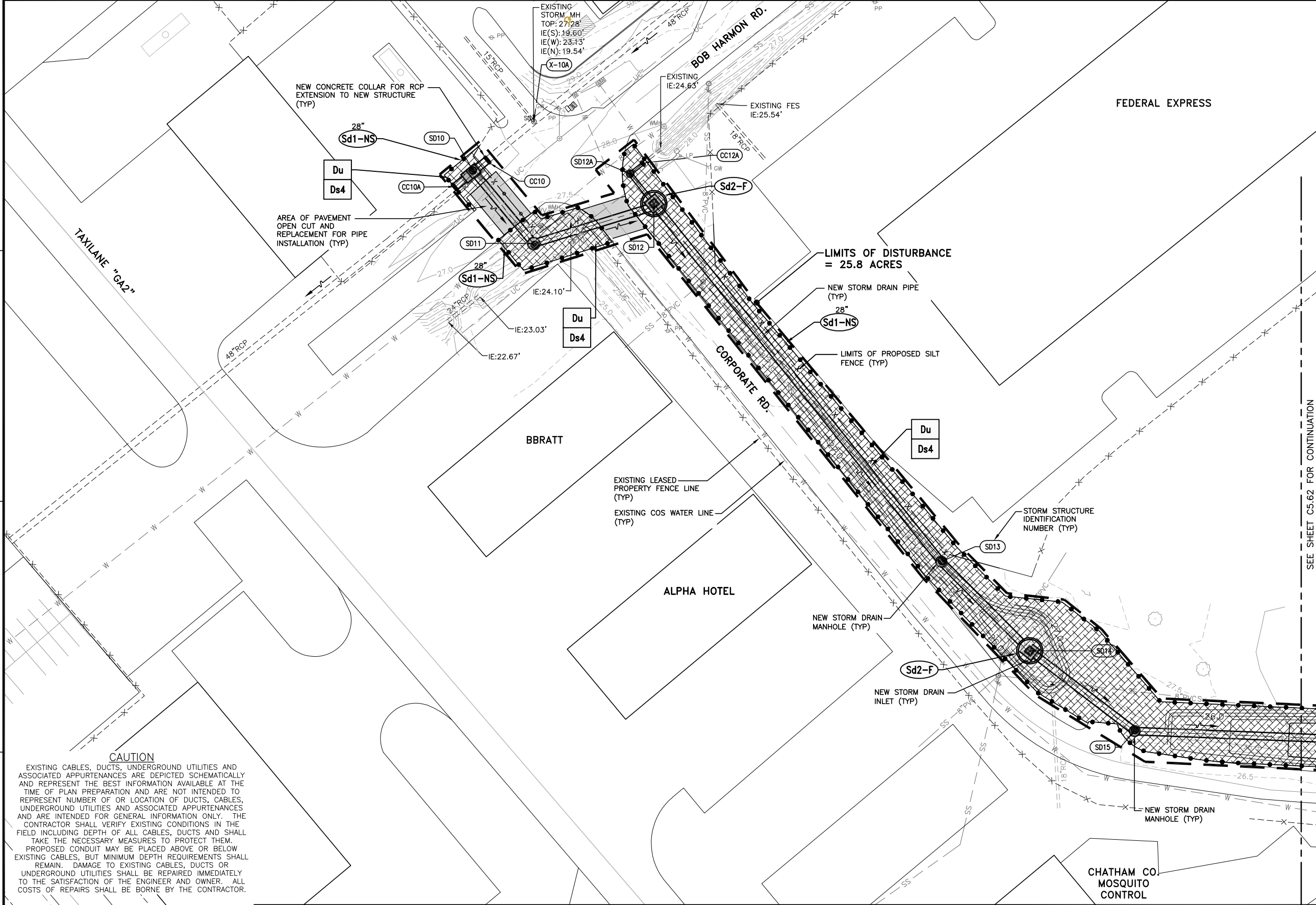
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN INTERMEDIATE PHASE (11)**

SHEET NO.: **C5.51**



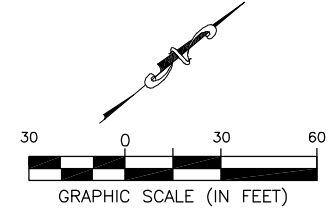
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-61 PLOTTED: Thursday, February 25, 2021 - 2:09pm USER: Norma.Pressley



- GENERAL NOTES:**
- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
  - THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
  - ALL DISTURBED AREAS TO BE SODDED.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - SAMPLING NOTE:**  
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  - SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.

SEE SHEET C5.62 FOR CONTINUATION

**CAUTION**  
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PM:	RWP
DWG. BY:	APD
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DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

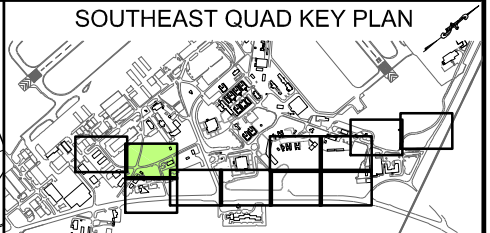
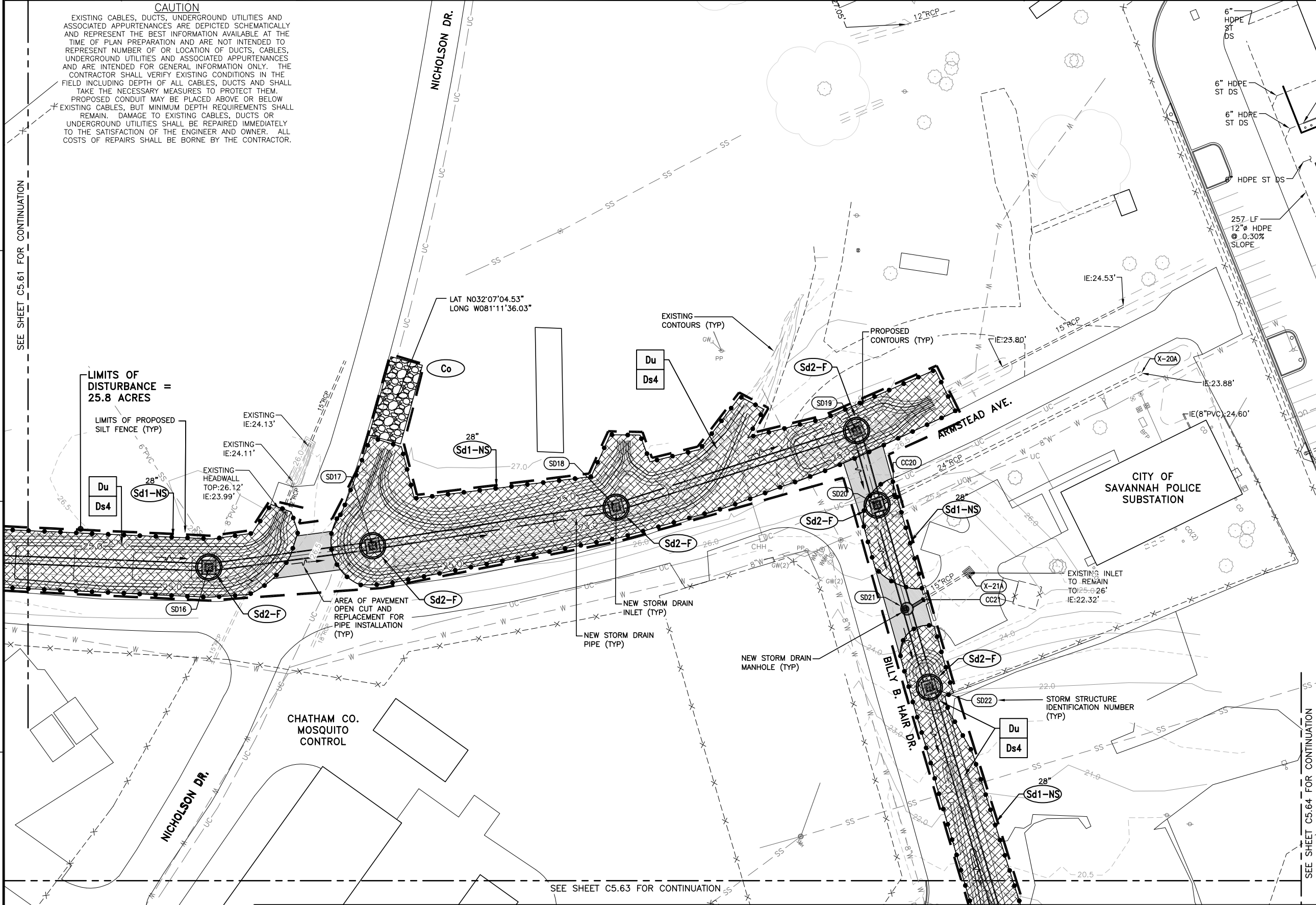
SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (1)**

SHEET NO.: **C5.61**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-62 PLOTTED: Thursday, February 25, 2021 - 2:09pm USER: Norma.Pressley



- GENERAL NOTES:**
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**LIMITS OF DISTURBANCE = 25.8 ACRES**

LIMITS OF PROPOSED SILT FENCE (TYP)

Du  
Ds4

Sd1-NS

EXISTING IE:24.13'

EXISTING IE:24.11'

EXISTING HEADWALL TOP:26.12' IE:23.99'

AREA OF PAVEMENT OPEN CUT AND REPLACEMENT FOR PIPE INSTALLATION (TYP)

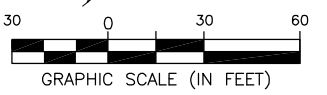
NEW STORM DRAIN INLET (TYP)

NEW STORM DRAIN PIPE (TYP)

STORM STRUCTURE IDENTIFICATION NUMBER (TYP)

Du  
Ds4

Sd1-NS



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SCALE:	AS NOTED
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

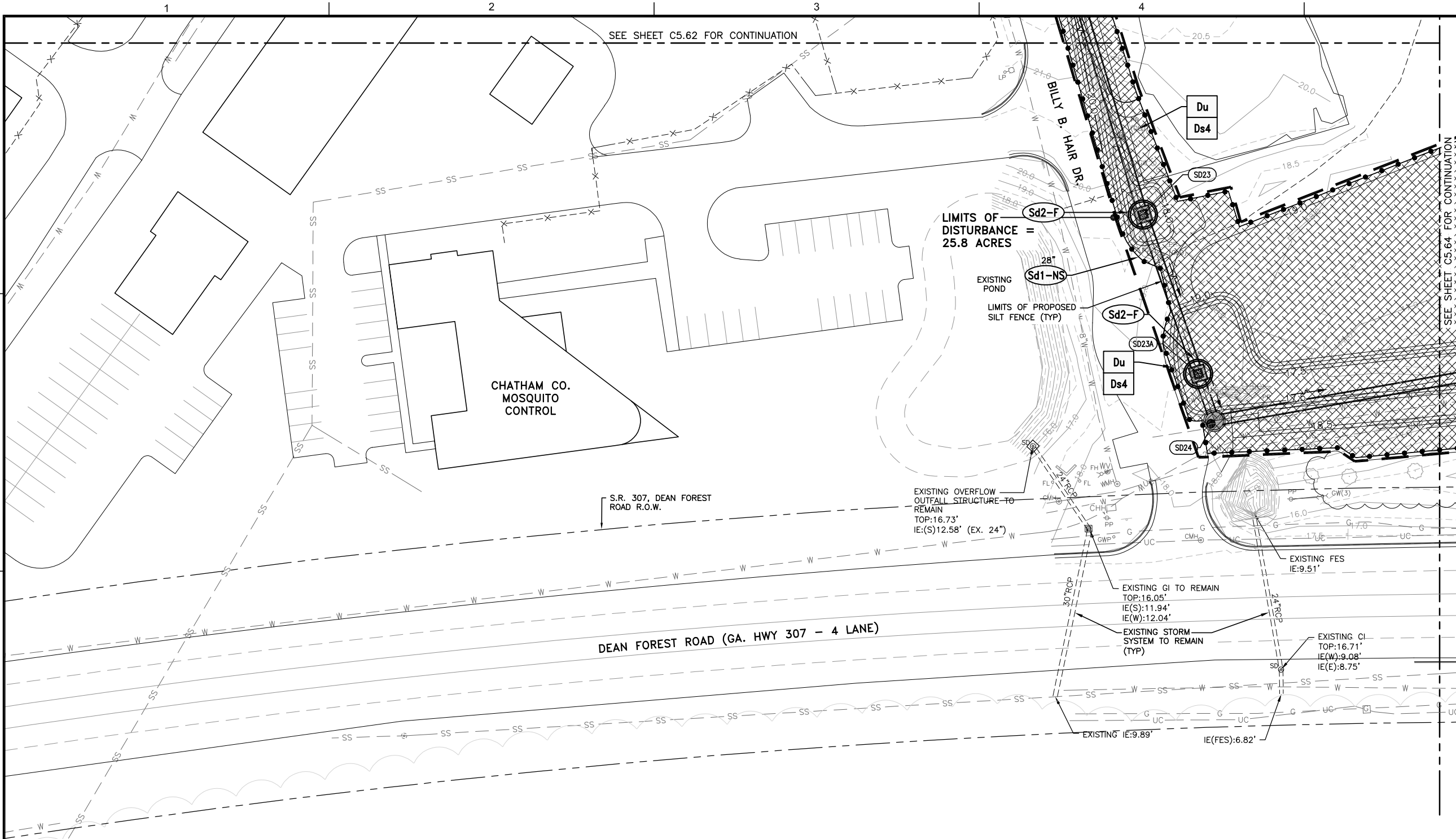
SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (2)**

SHEET NO.: **C5.62**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

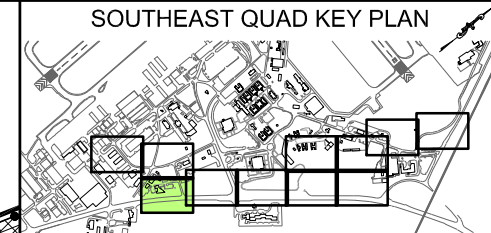


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C5-61-C4-71 EC FINAL.dwg LAYOUT NAME: C5-63 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley



SEE SHEET C5.62 FOR CONTINUATION

SEE SHEET C5.64 FOR CONTINUATION

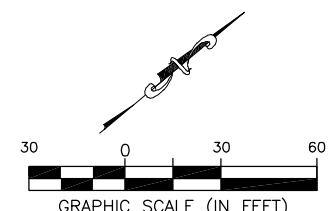


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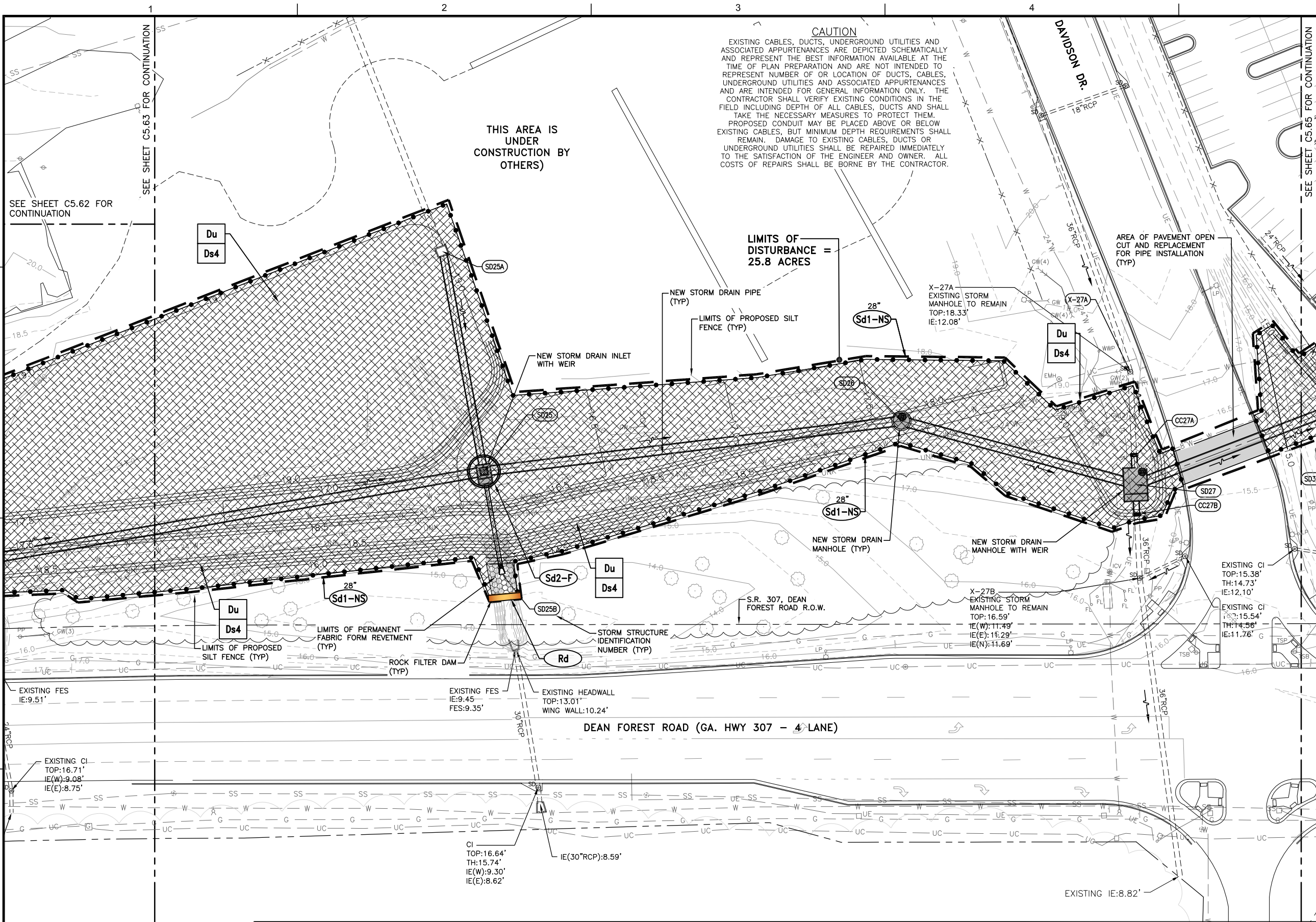
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (3)**

SHEET NO.: **C5.63**

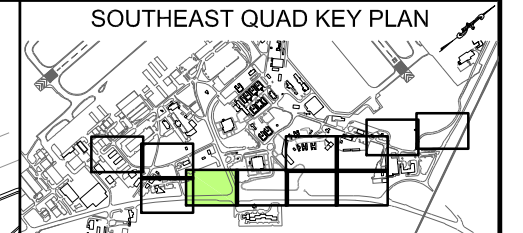


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQQuadDrng\Design\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-64 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley



THIS AREA IS UNDER CONSTRUCTION BY OTHERS)

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (4)**

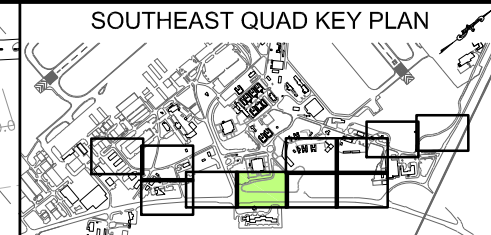
SHEET NO.: **C5.64**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

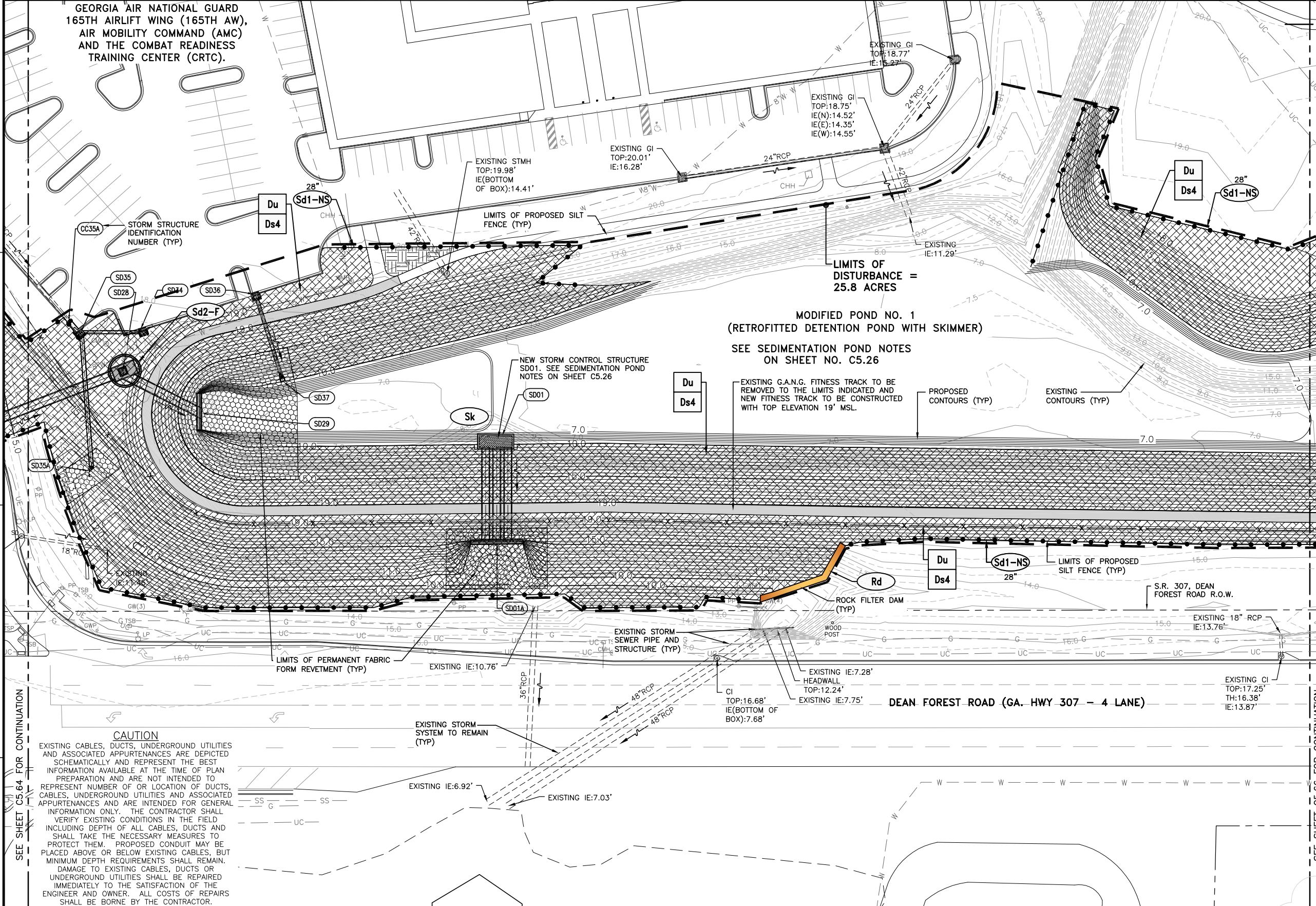


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-65 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley

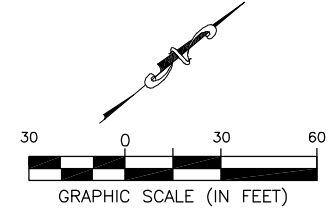
GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).



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- POND NO. 1 LIMITS OF DISTURBANCE:**
- THE ENTIRE PERIMETER OF POND NO. 1 IS INCLUDED IN THE LIMITS OF DISTURBANCE BECAUSE POND NO. 1 IS UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION AND THE CONTRACTOR MAY HAVE TO ACCESS ALL OPEN WATER AREAS OF POND NO. 1 TO REMOVE SEDIMENT ACCUMULATED DURING CONSTRUCTION. THE PORTION OF POND NO. 1 OUTSIDE OF THE Sd1-NS SEDIMENT BARRIER IS NOT SHADED TO RECEIVE PERMANENT VEGETATION, Ds4, AND DUST CONTROL, Du, BECAUSE THE AREA WILL REMAIN UNDISTURBED OTHER THAN THE OPEN WATER PORTION OF POND NO. 1 IN THE EVENT ACCUMULATED SEDIMENT IS REMOVED.



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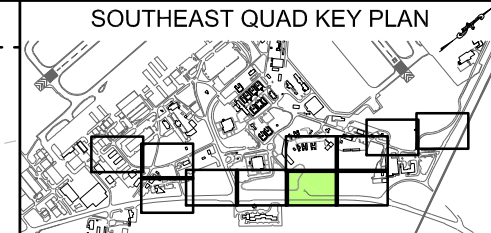
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**  
SHEET TITLE  
**EROSION CONTROL PLAN FINAL PHASE (5)**  
SHEET NO.  
**C5.65**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



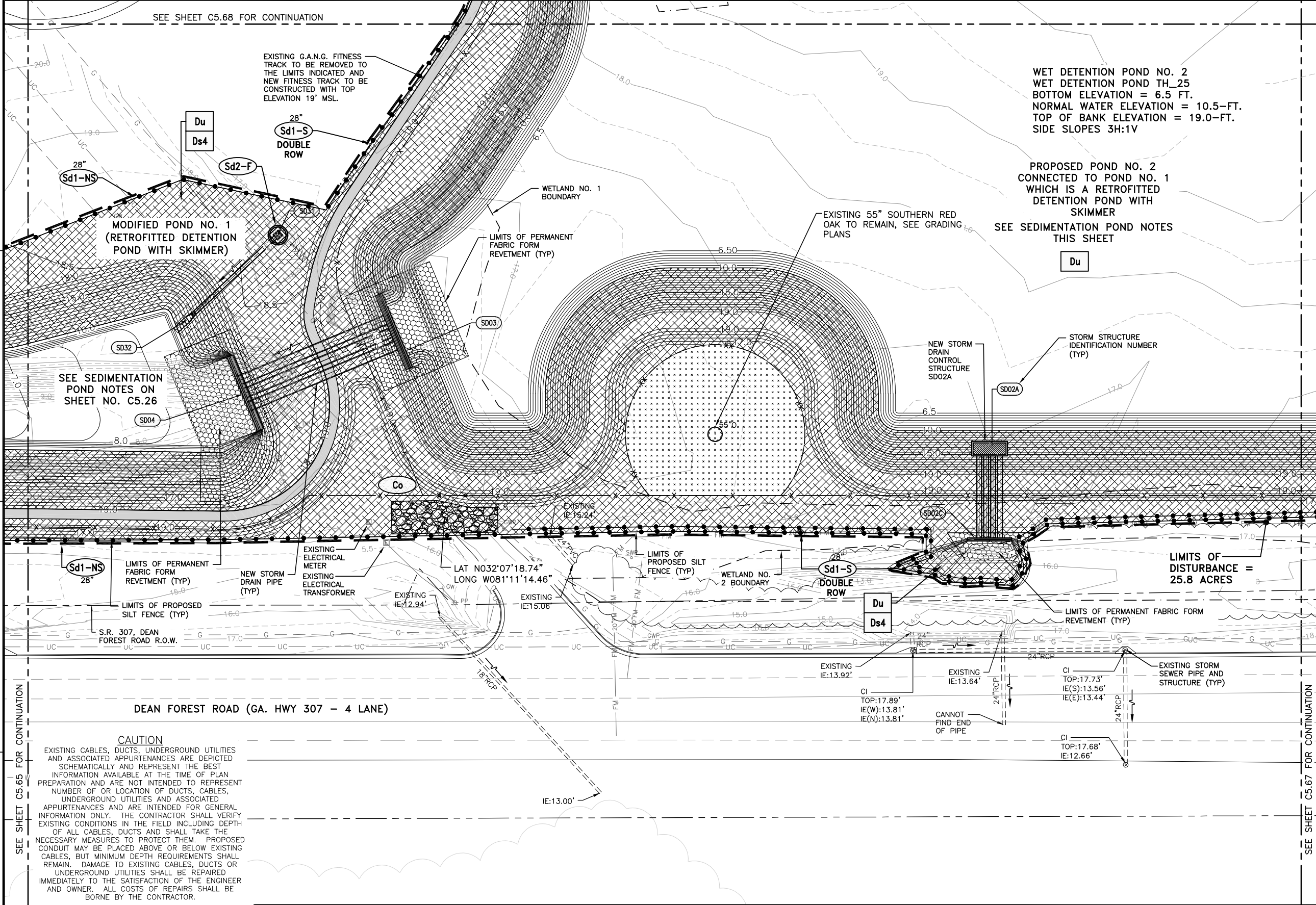
SEE SHEET C5.68 FOR CONTINUATION



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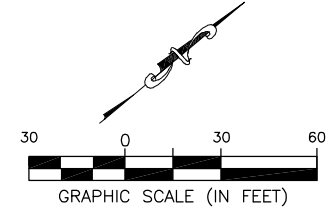
WET DETENTION POND NO. 2  
WET DETENTION POND TH\_25  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 10.5-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
SIDE SLOPES 3H:1V

PROPOSED POND NO. 2  
CONNECTED TO POND NO. 1  
WHICH IS A RETROFITTED  
DETENTION POND WITH  
SKIMMER  
SEE SEDIMENTATION POND NOTES  
THIS SHEET



DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	RWP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

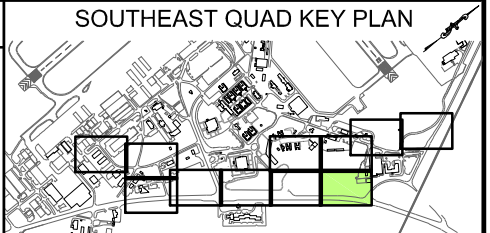
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (6)**

SHEET NO.: **C5.66**



SEE SHEET C5.69 FOR CONTINUATION



**GENERAL NOTES:**

- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SEE SHEET C4.30 THRU C4.34 FOR DRAINAGE STRUCTURE AND PIPE DATA SCHEDULES.
- ALL DISTURBED AREAS TO BE SODDED.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- SAMPLING NOTE:**  
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- SEE SHEETS C5.81 THRU C5.85 FOR EROSION AND SEDIMENT CONTROL DETAILS.

WET DETENTION POND NO. 2  
WET DETENTION POND TH\_25  
BOTTOM ELEVATION = 6.5 FT.  
NORMAL WATER ELEVATION = 10.5-FT.  
TOP OF BANK ELEVATION = 19.0-FT.  
SIDE SLOPES 3H:1V

PROPOSED POND NO. 2  
CONNECTED TO POND NO. 1  
WHICH IS A RETROFITTED  
DETENTION POND WITH  
SKIMMER

SEE SEDIMENTATION POND NOTES  
ON SHEET NO. C5.26

LIMITS OF PERMANENT FABRIC  
FORM REVETMENT (TYP)

28"  
Sd1-S  
DOUBLE  
ROW

NEW STORM DRAIN CONTROL  
STRUCTURE SD02B

LIMITS OF PROPOSED SILT  
FENCE (TYP)

28"  
Sd1-S  
DOUBLE  
ROW

LIMITS OF  
DISTURBANCE =  
25.8 ACRES

NEW A.O.A. 8' HIGH CHAIN LINK FENCE  
WITH 3 STRANDS BARBED WIRE TO BE  
INSTALLED, SEE FENCING PLAN AND  
DETAILS (TYP)

LIMITS OF PERMANENT FABRIC  
FORM REVETMENT (TYP)

S.R. 307, DEAN FOREST  
ROAD R.O.W.

DEAN FOREST ROAD (GA. HWY 307 - 4 LANE)

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SEE SHEET C5.66 FOR CONTINUATION

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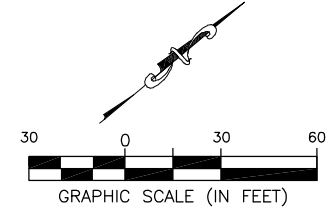


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DWG. BY:	APD
CHK. BY:	SGH
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DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE  
**EROSION CONTROL PLAN FINAL PHASE (7)**

SHEET NO.  
**C5.67**



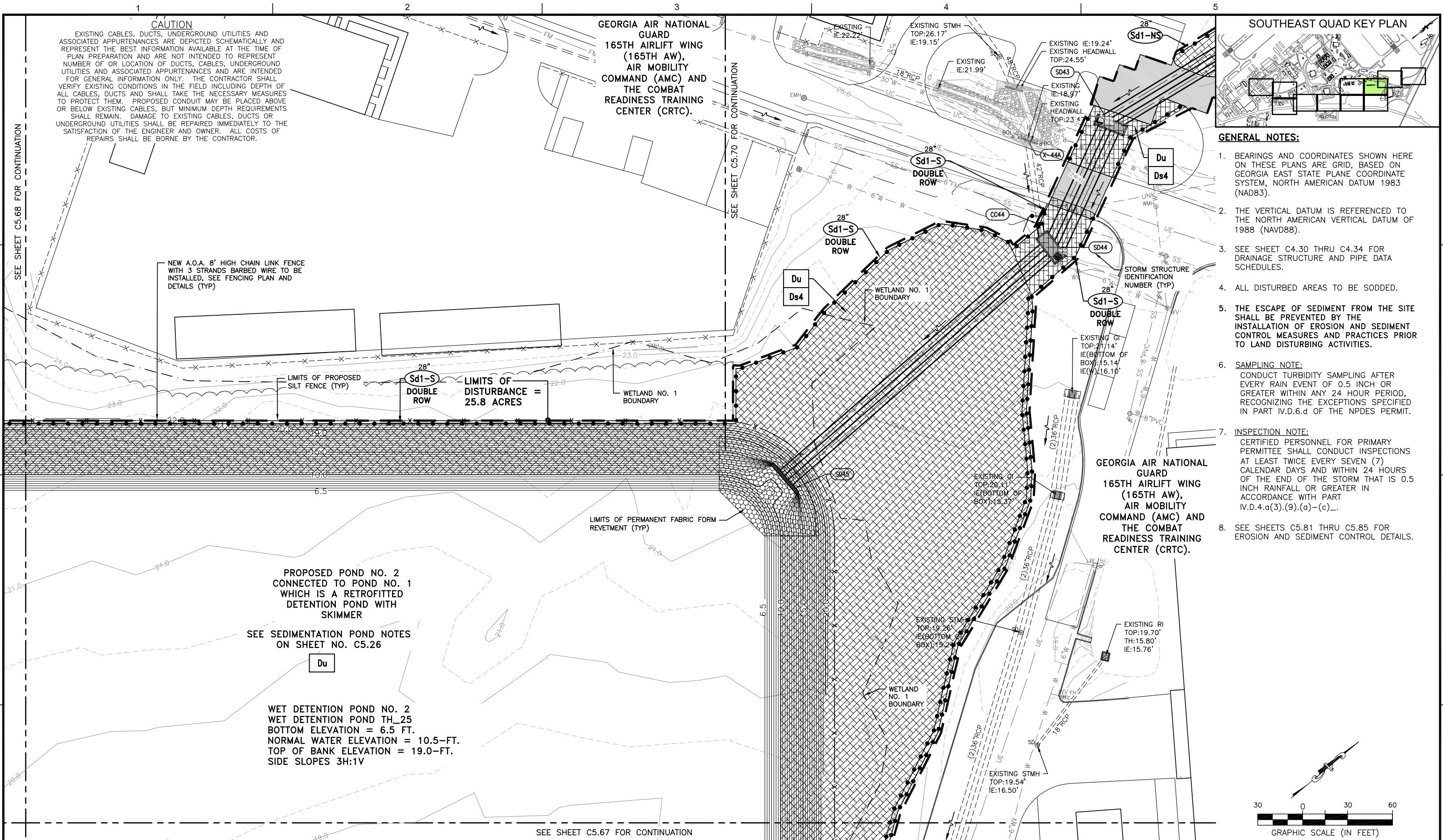
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-67 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley







FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-69 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
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 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

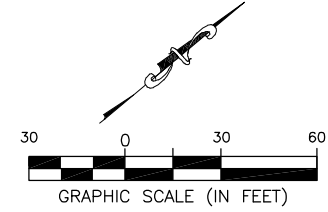
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (9)**

SHEET NO.: **C5.69**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



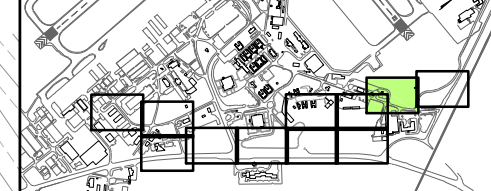


FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-70 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley

**CAUTION**

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**SOUTHEAST QUAD KEY PLAN**

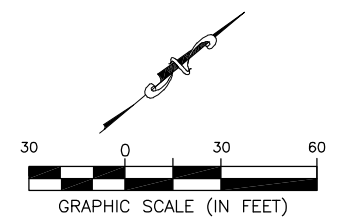


**GENERAL NOTES:**

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**GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC) AND THE COMBAT  
READINESS TRAINING CENTER (CRTC).**

NEW STORM DRAIN MANHOLE (TYP)

LIMITS OF DISTURBANCE = 25.8 ACRES

Du  
Ds4

28" Sd1-NS

LIMITS OF PROPOSED SILT FENCE (TYP)

NEW STORM DRAIN PIPE (TYP)

28" Sd1-NS

SD43

EXISTING IE:18.97'  
EXISTING HEADWALL TOP:23.4'

Du  
Ds4

28" Sd1-S  
DOUBLE ROW

28" Sd1-S  
DOUBLE ROW

Du  
Ds4

WETLAND NO. 1 BOUNDARY

28" Sd1-S  
DOUBLE ROW

EXISTING GI TOP:21.14'  
IE(BOTTOM OF BOX):15.14'  
IE(W):16.10'

STORM STRUCTURE IDENTIFICATION NUMBER (TYP)

AREA OF PAVEMENT OPEN CUT AND REPLACEMENT FOR PIPE INSTALLATION (TYP)

DATE	DESCRIPTION	BY	AUTH
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Savannah, Georgia | (912) 200-3041

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**SAVANNAH HILTON HEAD INTERNATIONAL**  
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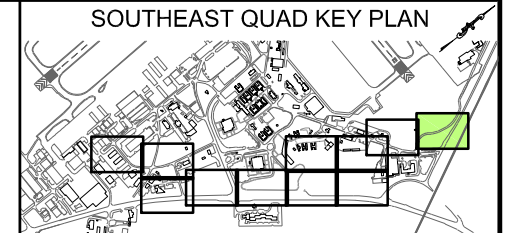
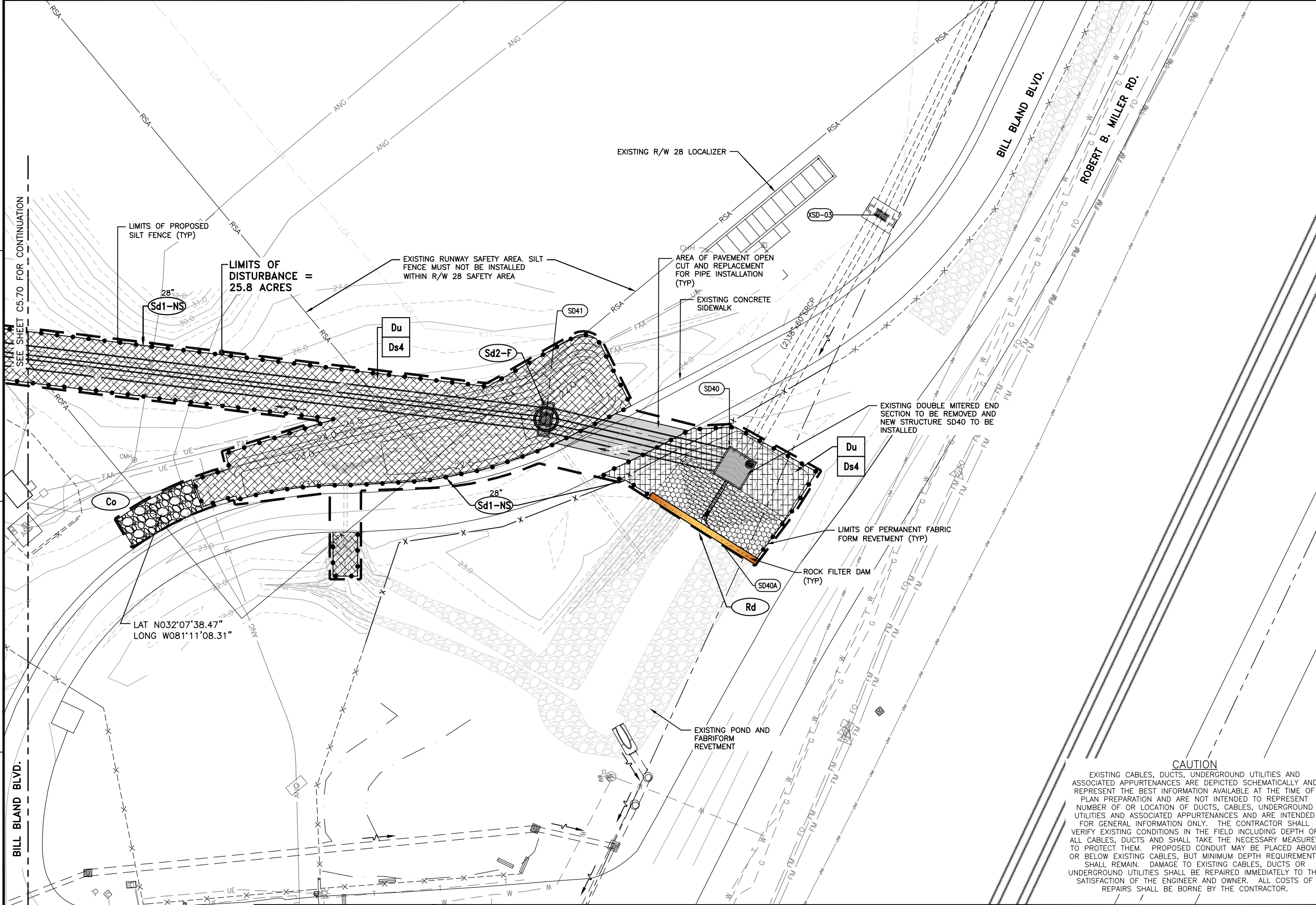
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (10)**

SHEET NO.: **C5.70**



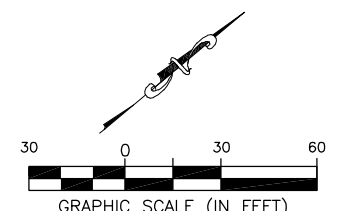
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_sEQuadDwg\900-Work\910\_CAD\20-SHEETS\C5-61-C4-71\_EC\_FINAL.dwg LAYOUT NAME: C5-71 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley



- GENERAL NOTES:**
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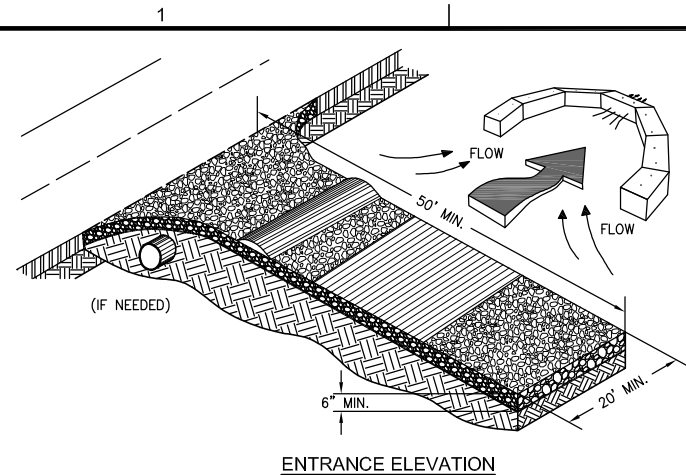
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION CONTROL PLAN FINAL PHASE (11)**

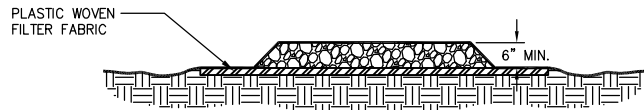
SHEET NO.: **C5.71**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C5-81-C5-85\_EC\_DTLs.dwg LAYOUT NAME: C5-81 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley

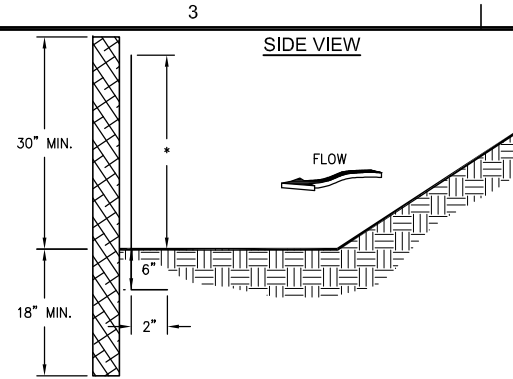


ENTRANCE ELEVATION

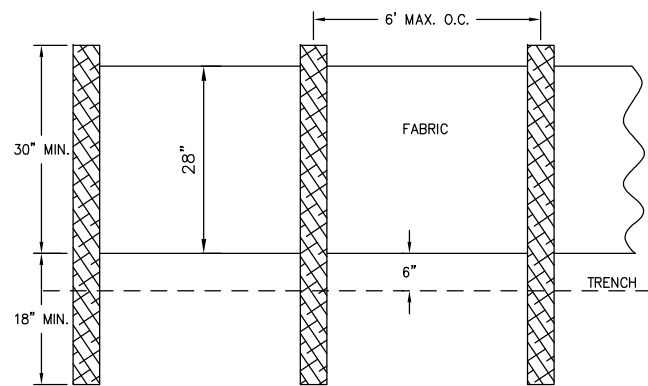


- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**(Co)** CRUSHED STONE CONSTRUCTION EXIT  
N.T.S.

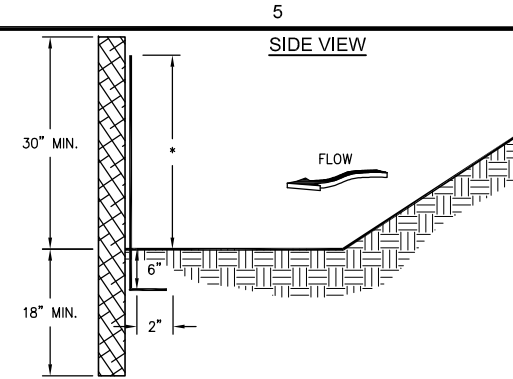


FRONT VIEW

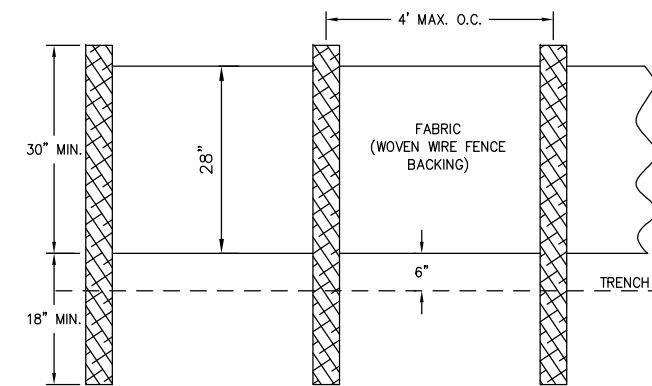


- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  2. HEIGHT (28") IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**(Sd1-NS)** SILT FENCE - TYPE NON-SENSITIVE  
N.T.S.

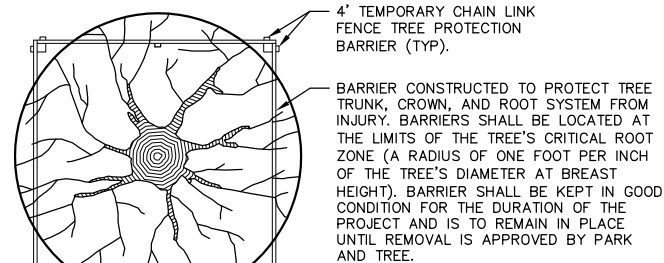
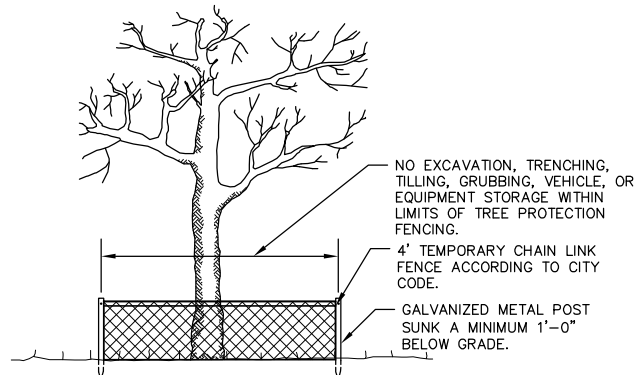


FRONT VIEW



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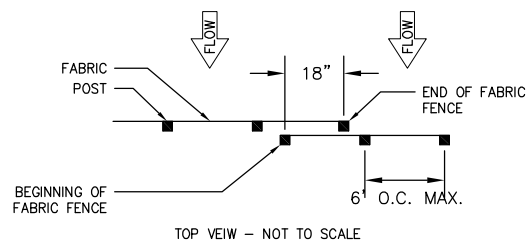
**(Sd1-S)** SILT FENCE - TYPE SENSITIVE  
N.T.S.



COS TREE PROTECTION DETAIL  
N.T.S.

- FOR ADDED PROTECTION (IF APPLICABLE)
1. PROVIDE 4" DEEP WOOD CHIP MULCH OVER ANY UNPROTECTED ROOT ZONE.
  2. MAKE CLEAN CUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
  3. PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

OVERLAP AT FABRIC ENDS



TOP VIEW - NOT TO SCALE



FRONT VIEWS - NOT TO SCALE

- NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

FASTENERS FOR SILT FENCES  
N.T.S.

Construction Site Project Name:  
**Construct Southeast Quadrant Storm Drainage Improvements**  
Permittee: Savannah Airport Commission

Contact Person: Mark Denmark  
Telephone: 912-964-0514

CONSTRUCTION SITE SIGN  
N.T.S.

DATE	DESCRIPTION	BY	AUTH
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

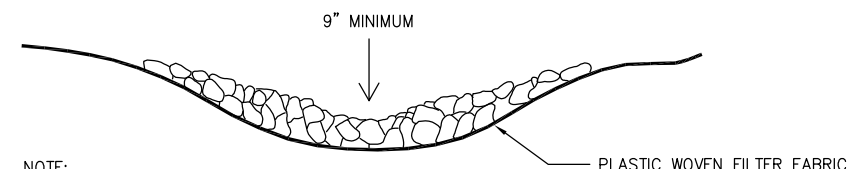
SHEET TITLE	SHEET NO.
<b>EROSION AND SEDIMENT CONTROL DETAILS (1)</b>	<b>C5.81</b>



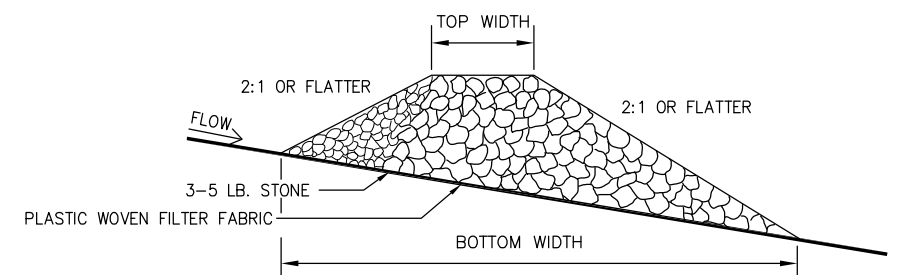
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQ\Drawings\Design\900-Work\910\_CAD\20-SHEETS\C5-81-C5-85\_EC\_DTL.dwg LAYOUT NAME: C5-82 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley

ROCK FILTER DAM SPECIFICATIONS							
UPSTREAM DRAINAGE STRUCTURE	LOCATON PLAN SHEETS	100-YR. STORM VELOCITY (FT/S)	STONE SIZE SQUARE OPENING (INCHES)			TOP WIDTH (FT)	BOTTOM WIDTH (FT)
			MAX.	AVG. <sup>(2)</sup>	MIN.		
			SD25B	C5.24 (INITIAL PHASE) C5.44 (INTERMEDIATE PHASE) C5.64 (FINAL PHASE)	9.00		
SD01A	C5.25 (INITIAL PHASE) C5.45 (INTERMEDIATE PHASE) C5.65 (FINAL PHASE)	8.00	12	6	3	8	18
SD40	C5.31 (INITIAL PHASE) C5.51 (INTERMEDIATE PHASE) C5.71 (FINAL PHASE)	7.50	12	6	3	6	30

(2) AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THE AVG. SIZE

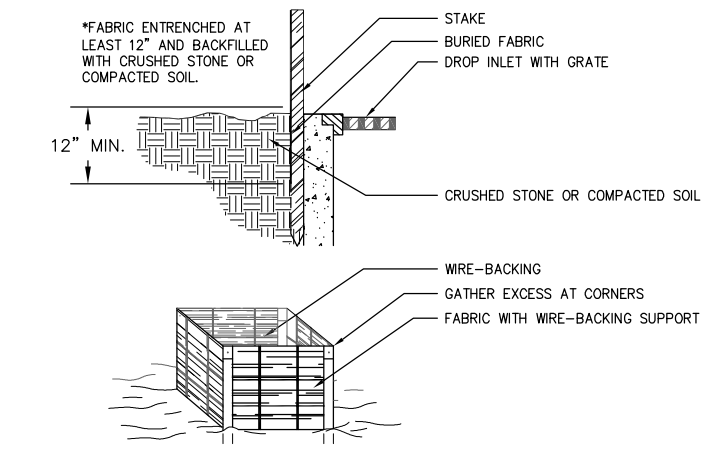
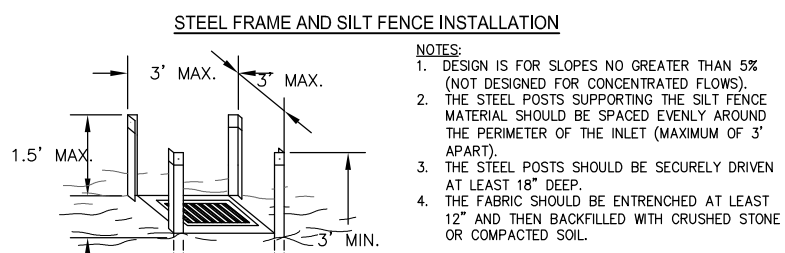


NOTE: ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

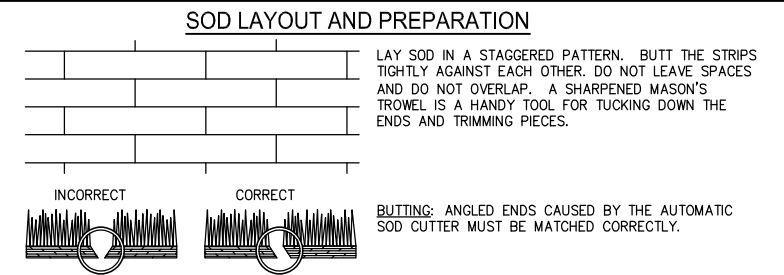


NOTES:  
(1) SEE TABLE ON THIS SHEET FOR ROCK SIZES AS DETERMINED FROM SPECIFICATIONS SET FORTH IN APPENDIX C OF THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION  
(2) SEE TABLE ON THIS SHEET FOR TOP AND BOTTOM WIDTHS

**Rd** ROCK FILTER DAM  
N.T.S.



**Sd2-F** FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION  
N.T.S.

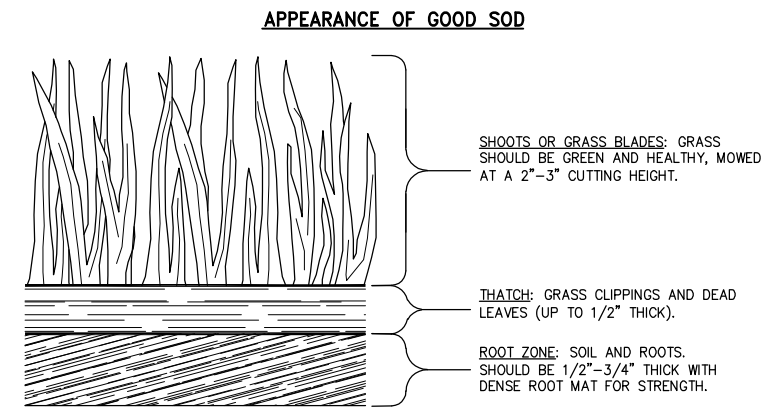


DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

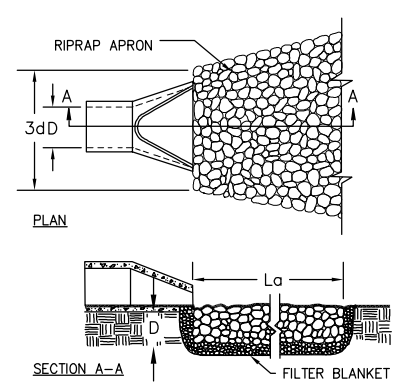
Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED --- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").



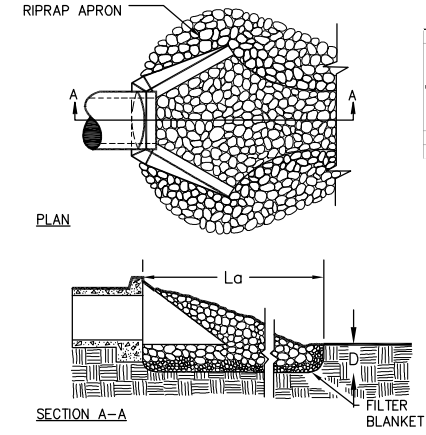
**Ds4** SOD MAINTENANCE AND INSTALLATION  
N.T.S.

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:  
1.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON.  
2.  $D = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".  
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).  
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



**Rd** STORM DRAIN OUTLET PROTECTION  
N.T.S.

Sheet No.	STORM DRAIN OUTLET PROTECTION						Apron Dimensions					
	Initial Phase	Intermediate Phase	Pipe Dia (in)	Flow (cfs)	Velocity (fps)	Tailwater Depth (ft)	Length (ft)	Width at Headwall (ft)	Downstream Width (ft)	Avg. Stone Diameter (ft)	Max. Stone Diameter (ft)	Store Depth (ft)
S-253	C5.24	C5.44	14" x 23" ERC	37.45	2.91	0.00	16	4	14	6.60	0.90	1.3
S-202A	C5.25	C5.45	13" x 48" RCP	161.83	7.21	5.00	30	30	23	6.80	1.20	2.0

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

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AECOM Technical Services, Inc.  
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Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM: RWP
DWG. BY: NJP
CHK. BY: SGH
DSG. BY: NJP
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EROSION AND SEDIMENT CONTROL DETAILS (2)**

SHEET NO. **C5.82**



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\C5-81-C5-85 EC DTLs.dwg LAYOUT NAME: C5-83 PLOTTED: Thursday, February 25, 2021 - 2:10pm USER: Norma.Pressley

**DUST CONTROL ON DISTURBED AREAS**

**DEFINITION**

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

**CONDITIONS**

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

**METHOD AND MATERIALS**

**A. TEMPORARY METHODS**

**Mulches.** See standard Ds1 – Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb–Tackifiers and Binders. Resins such as Curasol or Terratack should be used according to manufacturer’s recommendations.

**Vegetative Cover.** See standard Ds2 – Disturbed Area Stabilization (With Temporary Seeding).

**Spray-on Adhesives.** These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb–Tackifiers and Binders.

**Tillage.** This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel–type plows spaced about 12 inches apart, spring–toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

**Irrigation.** This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

**Barriers.** Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

**Calcium Chloride.** Apply at rate that will keep surface moist. May need retreatment.

**B. PERMANENT METHODS**

**Permanent Vegetation.** See standard Ds3 – Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

**Topsolling.** This entails covering the surface with less erosive soil material. See standard Tp – Topsolling.

**Stone.** Cover surface with crushed stone or coarse gravel. See standard Cr–Construction Road Stabilization.

**Du DUST CONTROL ON DISTURBED AREAS**

N.T.S.

**NOTE:**

SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 2016 EDITION AND ANY APPLICABLE UPDATES BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION FOR ALL FIGURES AND TABLES INDICATED IN THE EROSION CONTROL PLANS IF NOT INDICATED IN THE DETAILS.

**DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

**DEFINITION**

Applying plant residues or other suitable.

**CONDITIONS**

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but is shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

**SPECIFICATIONS**

**MULCHING WITHOUT SEEDING**

This standard applied to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover but can be stabilized with a mulch cover.

**Site Preparation**

1. Grade to permit the use of equipment for applying and anchoring mulch.

2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.

3. Loosen compact soil to a minimum depth of 3 inches.

**Mulching Materials**

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application

2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.

3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or ¼ gallon per sq. yd).

4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

**Applying Mulch**

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area,

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

2. If the area will eventually be covered with perennial vegetation, 20–30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of “tracking-in” or damage to shoes, clothing, etc.

4. Apply polyethylene film on exposed areas.

**Anchoring Mulch**

1. Straw or hay mulch can be pressed into the soils with a disk harrow with the disk set straight or with a special “packer disk”. Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it an erect position. Straw or hay mulch shall be anchored immediately after application. Straw or hay mulch spread with special blower–type equipment may be anchored with emulsified asphalt (Grade AE–5 or SS–1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifiers and binders can be substituted for emulsified asphalt. Please refer to specification Tb – Tackifiers and Binders. Plastic mulch or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer’s specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

**Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

N.T.S.

**DEFINITION**

A permanent vegetation using sods on highly erodible or critically eroded lands.

**CONDITIONS**

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

**CONSTRUCTION SPECIFICATIONS INSTALLATION**

**Soil Preparation**

– Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1”. Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

– Topsoil properly applied will help guarantee stand. Don’t use topsoil recently treated with herbicides or soil sterilants.

– Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6–6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6–6.1. Fertilizer Requirements for Soil Surface Application

FERTILIZER TYPE	FERTILIZER RATE (lbs./acre)	FERTILIZER RATE (lbs./sq. ft.)	SEASON
10–10–10	1000	0.025	Fall

– Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

**Installation**

– Lay sod with tight joints and in straight lines. Don’t overlap joints. Stagger joints and do not stretch sod.

– On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.

– Installed sod should be rolled or tamped to provide good contact between sod and soil.

– Irrigate sod and soil to a depth of 4” immediately after installation.

– Sod should not be cut or spread in extremely wet or dry weather.

– Irrigation should be used to supplement rainfall for a minimum of 2–3 weeks.

**Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)**

N.T.S.

**MATERIALS**

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain ¼” ± ¼” of soil, not including shoots or thatch.
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6–6.2. See Figure 6–4.1 for your Resource Area.

Table 6–6.2. Sod Planting Requirements

GRASS TYPE	VARIETIES (lbs./acre)	RESOURCE AREA	GROWING SEASON
Bermudagrass	Common Tifway Tifgreen Tiflawn	M–L,P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	–	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Meyer	P,C	Warm Weather
Tall Fescue	Kentucky	M–L,P	Cooler Weather

**MAINTENANCE**

- Re–sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2”–3” or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4–6 years.
- Fertilize grasses in accordance with soil tests or Table 6–6.3.

Table 6–6.3. Fertilizer Requirements for Sod

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (lbs./acre)	NITROGEN TOP DRESSING RATE (lbs./acre)
Cool Season Grasses	First	6–12–12	1500	50–100
	Second Maintenance	6–12–12 10–10–10	1000 400	– 30
Warm Season Grasses	First	6–12–12	1500	50–100
	Second Maintenance	6–12–12 10–10–10	800 400	50–100 30

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	NJP
CHK. BY:	SGH
DSG. BY:	NJP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	EROSION AND SEDIMENT CONTROL DETAILS (3)	SHEET NO.	C5.83
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**FABRIFORM REVETMENT SPECIFICATIONS**

**I. GENERAL**

THE SURFACES TO BE PROTECTED SHALL BE PREPARED AND GRADED TO SUCH AN EXTENT THAT THEY ARE NORMALLY STABLE IN THE ABSENCE OF EROSION FORCES. A FABRIC ENVELOPE IN A MAT CONFIGURATION SHALL BE POSITIONED OVER THESE SURFACES AND FILLED WITH A PUMPABLE SAND/CEMENT GROUT IN SUCH A WAY AS TO FORM A STABLE MAT OF SUITABLE WEIGHT AND CONFIGURATION.

THE CONTRACTOR SHALL FURNISH RECORDS OF PAST SUCCESSFUL EXPERIENCE IN PERFORMING THIS TYPE OF WORK. THE CONTRACTOR SHALL SAVE THE OWNER HARMLESS FROM LIABILITY OF ANY KIND ARISING FROM THE USE OF ANY PATENT OF UNPATENTED INVENTION IN THE PERFORMANCE OF THIS WORK.

**II. MATERIALS**

A. FABRIC FORMING MATERIAL SHALL CONSIST OF DOUBLE LAYER OPEN SELVAGE FABRIC JOINT IN A MAT CONFIGURATION. EACH LAYER SHALL EXHIBIT MINIMUM GRAB TENSILE STRENGTH OF NOT LESS THAN 300 LBS./IN. IN BOTH WARP AND FILL DIRECTIONS WHEN TESTED IN ACCORDANCE WITH ASTM D-4632 AND POROSITY OF NOT LESS THAN 100 FT. 3/MIN./S.F. WHEN TESTED IN ACCORDANCE WITH ASTM D-737.

1. UNIMAT FABRIC, SHALL CONSIST OF DOUBLE LAYER FABRIC JOINED TOGETHER BY INTERWOVEN TIES OF UNIFORM LENGTH. HYDROSTATIC UPLIFT RELIEF, WHERE REQUIRED, SHALL BE PROVIDED BY INSERTING PLASTIC WEEP HOLE ASSEMBLIES THROUGH THE MAT AT 60" X 60" CENTERS OR BY SEWING THE TWO LAYERS OF FABRIC TOGETHER IN A CIRCULAR PATTERN. THE LOWER END OF THE WEEP HOLE ASSEMBLY MAY, AT THE ENGINEER'S OPTION, BE COVERED BY FILTER CLOTH AGAINST LOSS OF SOIL FINES.

2. INDIVIDUAL MILL WIDTH PANEL SHALL BE CUT TO SUITABLE LENGTH AND THE TWO LAYERS OF FABRIC SEPARATELY JOINED EDGE TO EDGE BY MEANS OF NYLON OR POLYESTER THREAD. THE TENSILE STRENGTH OF STITCHED JOINTS SHALL BE NOT LESS THAN 100 LBS. PER INCH.

3. FABRIC POROSITY IS ESSENTIAL FOR THE SUCCESSFUL EXECUTION OF THIS WORK. AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL DEMONSTRATE THE SUITABILITY OF FABRIC DESIGN BY INJECTING THE PROPOSED GROUT INTO 6" DIAMETER SLEEVES UNDER PRESSURE OF 10 TO 15 PSI WHICH SHALL BE MAINTAINED BY MEANS OF AIR PRESSURE OR A STAND-PIPE FOR 10 MINUTES. THE SLEEVES SHALL BE CONSTRUCTED OF THE SAME FABRIC USED IN THE INDIVIDUAL LAYERS OF FABRIC. 6" X 12" TEST CYLINDERS SHALL BE CUT FROM EACH SPECIMEN AND TESTED IN ACCORDANCE WITH ASTM C-39.

B. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT, FINE AGGREGATE AND WATER SO PROPORTIONED AND MIXED AS TO PROVIDE A READILY PUMPABLE SLURRY. ADMIXTURES MAY BE USED AT THE OPTION OF THE CONTRACTOR AND WITH THE APPROVAL OF THE ENGINEER. THE HARDENED GROUT SHALL EXHIBIT A COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS WHEN SPECIMENS ARE MADE AND TESTED ACCORDING TO THE PROVISIONS OF ASTM C-31 AND C-39.

**III. PLACEMENT OF GROUT IN MAT FABRIC**

PRIOR TO GROUT INJECTION, THE FABRIC SHALL BE POSITIONED AT ITS DESIGN LOCATION. GROUT SHALL BE INTRODUCED INTO THE SPACE BETWEEN THE LAYERS OF FABRIC. WHERE CONVENIENT, ADJACENT FABRIC PANELS SHALL BE JOINED, BEFORE GROUT INJECTION, BY FIELD SEWING THE TWO LAYERS OF FABRIC SEPARATELY, EDGE TO EDGE, EXCEPT THAT WITH THE APPROVAL OF THE ENGINEER OR WHERE CALLED FOR BY PLANS, ADJACENT PANELS MAY BE LAPPED A MINIMUM OF TWO FEET. IN NO CASE WILL SIMPLE BUTT JOINTS BE APPROVED.

1. FABRIC PANELS ARE ASSEMBLED TO ORDER IN ACCORDANCE WITH SHOP DRAWINGS PREPARED BY THE INSTALLER. PREPARE A SKETCH OF EACH DIFFERENT PANEL SIZE THAT WILL BE REQUIRED. INSTRUCTIONS FOR PREPARATION OF FABRIC SHOP DRAWINGS ARE AVAILABLE ON REQUEST. SUPPLIER WILL PREPARE SHOP DRAWINGS FROM TOPOGRAPHIC DATA FURNISHED.

2. IN MAKING A PRELIMINARY ESTIMATE OF THE QUANTITY OF FABRIC REQUIRED, ALLOW 20% FOR FABRIC ASSEMBLY CONTRACTION WHICH OCCURS AS A RESULT OF FILLING WITH MORTAR AND FOR SURFACE IRREGULARITIES.

**SLOPE PREPARATION -**

1. FOR THE SAKE OF APPEARANCE, REVETMENTS SHOULD BE PLACED OVER RELATIVELY SMOOTH SURFACES. MINOR IRREGULARITIES ARE TOLERABLE FOR THE FILTER POINT CONFIGURATION, SINCE THEIR EFFECT ON APPEARANCE WILL BE OBSCURED BY THE DEEPLY TEXTURED SURFACE OF THE MAT.

2. THE UPPER ANCHOR TRENCH IS MOST CONVENIENTLY PLACED AT THE CROWN OF THE SLOPE.

3. PLACE FABRIC IMMEDIATELY FOLLOWING GRADING AND SLOPE PREPARATION.

4. IF BACKFILLING IS NECESSARY, USE COMPACTED GRANULAR MATERIAL.

**FABRIC PLACEMENT -**

1. POSITION FABRIC LOOSELY ALONG THE BANK BEFORE GROUT INJECTION. STAKE FABRIC AT PREDETERMINED LOCATIONS TO ALLOW FOR FABRIC CONTRACTION. DO NOT APPROXIMATE FABRIC LOCATIONS. MEASURE DIMENSIONS ON THE BANK AND STAKE AT ABOUT 20-FT. CENTERS. SEAMS SHOULD BE GENERALLY PERPENDICULAR TO THE SHORELINE FOR BEST APPEARANCE.

2. FABRIC PANELS ARE JOINTED IN THE FIELD WITH A BAG CLOSER (PORTABLE SEWING MACHINE). LAY OUT THE FIRST PANEL AND FOLD BACK THE LEADING EDGE. INVERT THE ADJACENT ABUTTING PANEL. JOIN THE TOP LAYERS OF FABRIC. JOIN THE BOTTOM LAYERS OF FABRIC. FOLD THE JOINTED PANELS BACK ON THE BANK WITH SEAMS DOWN.

3. TO AVOID FIELD SEWING AS MUCH AS POSSIBLE, PREPARE FABRIC ASSEMBLY SKETCHES IN SUCH DETAIL THAT THE GREAT MAJORITY OF THE SEWING CAN BE DONE PRIOR TO DELIVERY.

4. PROVIDE EACH JOB WITH A SMALL QUANTITY OF UNMIXED, UNASSEMBLED FABRIC FOR SPECIAL FIELD TAILORING.

**MORTAR PREPARATION -**

1. VERY FLUID SAND-CEMENT MORTAR IS USED IN ALL FABRIFORM REVETMENT WORK. AIR CONTENT OF 5 TO 8% WILL IMPROVE PUMP ABILITY OF THE FLUID MORTAR AND FREEZE/THAW RESISTANCE OF HARDENED MORTAR. USE A RETARDING MIXTURE IN HOT WEATHER. SUBSTITUTION OF POZZOLANIC QUALITY FLY ASH FOR UP TO 35% OF THE CEMENT IS PARTICULARLY RECOMMENDED AS AN AID TO PUMPABILITY.

2. EXCESS MIXING WATER EXPELLED THROUGH THE PERMEABLE FABRIFORM FABRIC WILL REDUCE THE VOLUME OF 27 CU. FT. OF WET MORTAR TO ABOUT 25 CU. FT. OF HARDENED MORTAR. FOLLOWING ARE TYPICAL MIXED.

**RANGE OF QUANTITIES - IN POUNDS PER CU. YD.**

MATERIAL	AS DELIVERED	IN PLACE
CEMENT	750-850	810-910
SAND	2120-2030	2300-2170
WATER	540-550	460-470
AIR	AS REQUIRED	5-8%

3. MORTAR CONSISTENCY SHOULD BE IN THE 9-11 SECOND RANGE THROUGH THE 3/4" ORIFICE OF THE STANDARD FLOW CONE DESCRIBED IN ASTM C-939-80.

**MORTAR PUMPING -**

1. INSERT THE INJECTION PIPE THROUGH A SMALL SLIT CUT IN THE UPPER LAYER OF FABRIC. WRAP A PIECE OF BURLAP AROUND THE INSERT TO ACT AS A PACKER. USE CARE TO AVOID GROUT SPILLAGE.

2. FIRST PUMP THE UPPER EDGE OF THE MAT WHICH HAS BEEN PLACED IN THE ANCHOR TRENCH, FOLLOWED BY INJECTION INTO THE LOWER EDGE, WORKING BACK UP THE SLOPE. AVOID OVER PRESSURING OF THE FABRIC.

3. IN FLOWING WATER, PUMP THE UPSTREAM EDGE OF THE MAT FIRST. MAXIMUM ALLOWABLE WATER VELOCITY USING ROUTINE INSTALLATION PROCEDURES, IS ABOUT 3 FT. PER SECOND.

4. DO NOT WALK ON THE MAT FOR ABOUT ONE HOUR AFTER PUMPING OR THE FOOTPRINTS WILL LEAVE INDENTIONS.

5. REMOVE BURLAP FROM INSERT HOLES AND SMOOTH MORTAR BY HAND.

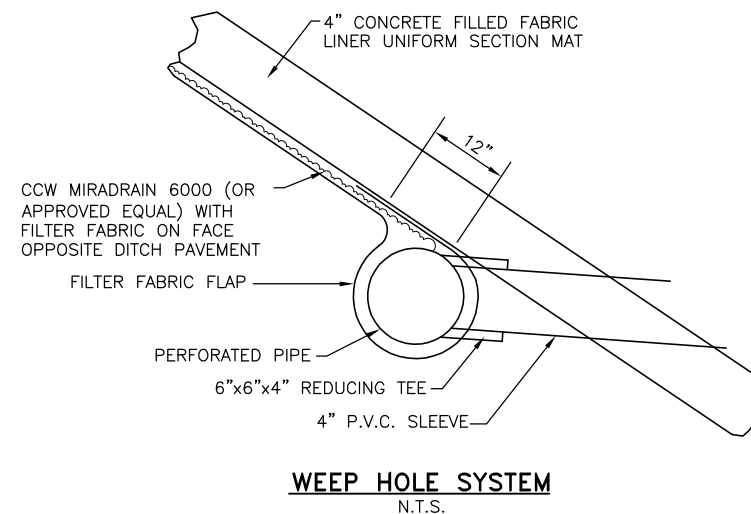
6. CLEAN UP MORTAR SPILLED BY HAND. DO NOT WASH DOWN MAT WITH A WATER HOSE.

7. PUMPING RATE WILL VARY DEPENDING ON SITE CONDITIONS. ON LARGE JOBS, PLACEMENT RATES UP TO 6,000 SQ. FT. PER 8 HOUR SHIFT ARE REGULARLY ACHIEVED.

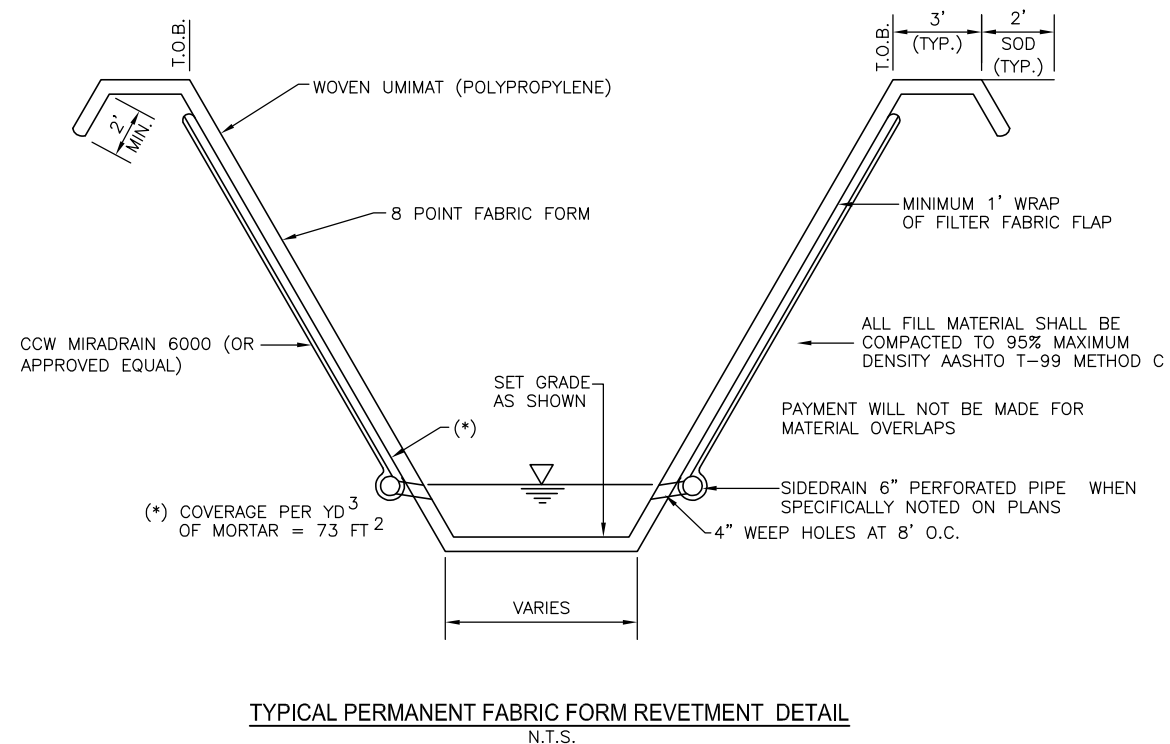
**EQUIPMENT -**

1. PUMPING CAPACITY SHOULD BE ABOUT 12 CU. YDS. PER HOUR. EQUIPMENT WHICH HAS BEEN SUCCESSFULLY USED INCLUDES THE THOMSEN MODEL 4.5 MAYCO MODEL C-30, MOYNO NO. 6 FRAME OR LARGER, OR SIMILAR EQUIPMENT. USE MINIMUM 2 IN. PIPE OR HOSE FROM THE PUMP TO A WYE FITTING AND TWO 1-1/2 IN. HOSES FROM THE WYE TO THE FABRIC.

2. FOR FIELD SEWING, FISCHBEIN MACHINES ARE SUGGESTED, EITHER THE ELECTRIC MODEL E OR AIR OPERATED MODEL DR. BOTH MACHINES TAKE 1/2 LB. SPOOLS OF NO. 138 BST NYLON THREAD.



Locations of Permanent Fabric Form Revetment			
Outlet Structure ID	100-Year Velocity (ft/s)	Intermediate Phase Sheets	Final Phase Sheets
SD251B	3.20	C5.44	C5.64
SD35A	3.11		
SD01A	7.20		
SD29	5.46	C5.45	C5.65
SD37	1.00		
SD04	2.86		
SD03	2.70	C5.46	C5.66
SD02C	6.96		
SD02D	6.80		
Existing Headwall	2.25	C5.47	C5.67
SD51	7.70	C5.48	C5.68
SD45	9.02	C5.49	C5.69
SD40	13.18	C5.51	C5.71



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	NJP
CHK. BY:	SGH
DSG. BY:	NJP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>EROSION AND SEDIMENT CONTROL DETAILS (4)</b>	<b>C5.84</b>



**SKIMMER REQUIREMENTS WITH ONLY EXISTING POND NO.1:**

1. DRAW DOWN VOLUME IS 270,682 CUBIC- FEET FROM THE WEIR ELEVATION OF 14.0- FEET TO THE INVERT OF THE ORIFICE IN THE EXISTING POND NO. 1 OUTFALL STRUCTURE AT ELEVATION 10.5- FEET.
2. THE TIME TO DRAIN THE DRAW DOWN VOLUME OF 270,682 CUBIC FEET IS 72- HOURS.
3. ONE SKIMMER WITH AN 8- INCH ORIFICE AND 6- INCHES OF HEAD IS REQUIRED TO DRAW DOWN 270,682 CUBIC FEET IN 72- HOURS.
4. SKIMMER MANUFACTURE: J.W. FAIRCLOTH AND SONS, INC.

**SKIMMER REQUIREMENTS WITH EXISTING POND NO.1 AND PROPOSED POND NO. 2 COMPLETED:**

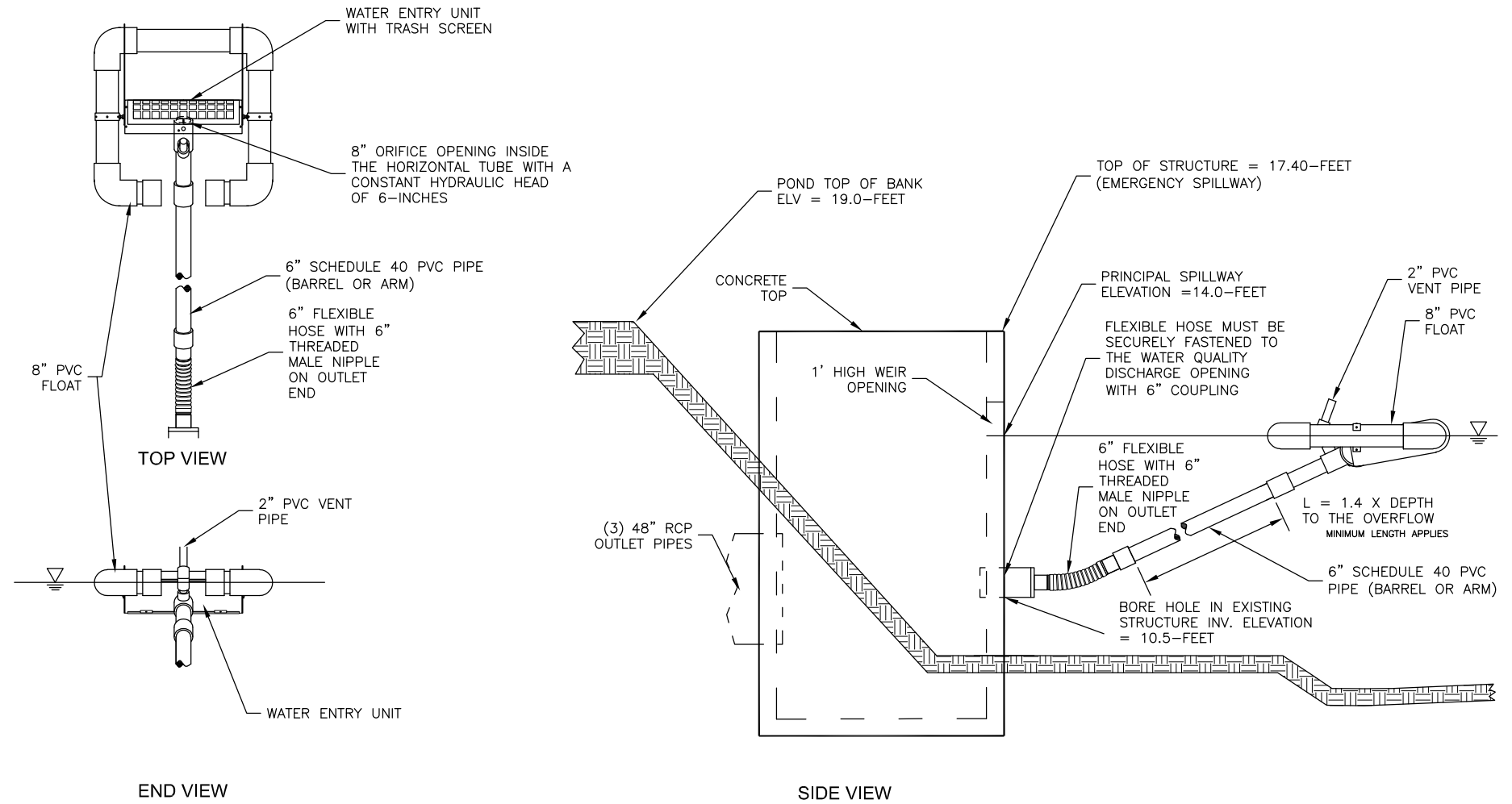
1. DRAW DOWN VOLUME IS 562,891 CUBIC- FEET FROM THE WEIR ELEVATION OF 14.0- FEET IN THE EXISTING POND NO. 1 OUTFALL STRUCTURE TO 1- FOOT BELOW THE WEIR AT ELEVATION 13.0- FEET.
2. THE TIME TO DRAIN THE DRAW DOWN VOLUME OF 562,891 CUBIC FEET IS 72- HOURS.
3. TWO SKIMMERS WITH AN 8- INCH ORIFICE AND 6- INCHES OF HEAD IS REQUIRED TO DRAW DOWN 562,891 CUBIC FEET IN 72- HOURS.
4. SKIMMER MANUFACTURE: J.W. FAIRCLOTH AND SONS, INC.

**SKIMMER REQUIREMENTS WITH PROPOSED POND NO.1 AND PROPOSED POND NO. 2 COMPLETED:**

1. DRAW DOWN VOLUME IS 573,679 CUBIC- FEET FROM ELEVATION 14.0- FEET TO ELEVATION 13.0- FEET.
2. THE TIME TO DRAIN THE DRAW DOWN VOLUME OF 573,679 CUBIC FEET IS 72- HOURS.
3. TWO SKIMMERS WITH AN 8- INCH ORIFICE AND 6- INCHES OF HEAD IS REQUIRED TO DRAW DOWN 573,679 CUBIC FEET IN 72- HOURS.
4. SKIMMER MANUFACTURE: J.W. FAIRCLOTH AND SONS, INC.

**FLOATING SURFACE SKIMMER NOTES:**

1. BORE A HOLE IN THE EXISTING OUTFALL STRUCTURE FOR POND NO. 1 WITH AN INVERT ELEVATION OF 10.5- FEET WHERE THE 6" FLEXIBLE HOSE IS ATTACHED USING THE THREADED 6" NIPPLE. USE A STEEL PLATE WITH A HOLE CUT IN IT AND COUPLING WELDED TO IT THAT WILL FIT OVER THE HOLE IN THE CONCRETE AND BOLTED TO THE CONCRETE STRUCTURE WITH SEALANT.
2. WHEN THE EXISTING POND NO. 1 OUTFALL STRUCTURE IS REMOVED AND REPLACED WITH THE PROPOSED POND NO. 1 OUTFALL STRUCTURE IDENTIFIED AS SD01 CONNECT THE 6" FLEXIBLE HOSE TO ONE OF THE OPENINGS IN THE CONCRETE STRUCTURE FOR THE 18- INCH DIAMETER PVC ORIFICES AS DESCRIBED IN NOTE 2. TWO SKIMMERS ARE REQUIRED WHEN POND NO. 2 IS COMPLETE TO DRAW DOWN THE VOLUME WITHIN 72- HOURS.
3. 6" PVC BARREL SHALL BE PROVIDED BY THE CONTRACTOR AND SHOULD BE 1.4 TIMES THE DEPTH OF WATER WITH A MINIMUM LENGTH OF 8- FEET SO THE INLET CAN BE PULLED TO THE SIDE FOR MAINTENANCE. IF THE BARREL IS MORE THAN 10- FEET LONG, WEIGHT MAY HAVE TO BE ADDED TO THE INLET TO COUNTER THE INCREASED BUOYANCY.
4. ORIFICE/INLET TAPERS DOWN FROM 8" MAXIMUM INLET TO A 6" BARREL AND HOSE. BARREL IS SMALLER TO REDUCE BUOYANCY AND TENDENCY TO LIFT INLET BUT IS SUFFICIENT FOR FLOW THROUGH INLET BECAUSE OF SLOPE. THE MAXIMUM CAPACITY OF THE SKIMMER IS 97,978 CUBIC FEET PER DAY WITH A 8" ORIFICE/INLET AND 6" HEAD. THE 8" ORIFICE/INLET CAN BE REDUCED USING THE PLATE AND CUTTER PROVIDED TO REDUCE THE OUTFLOW RATE.



**FLOATING SURFACE SKIMMER DISCHARGE SYSTEM CONNECTED TO EXISTING POND NO. 1 REINFORCED CONCRETE OUTFALL STRUCTURE**

**Sk** **FLOATING SURFACE SKIMMER**  
N.T.S.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	NJP
CHK. BY:	SGH
DSG. BY:	NJP
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>EROSION AND SEDIMENT CONTROL DETAILS (5)</b>	<b>C5.85</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910\_CAD\20-SHEETS\C6-01-04-FENCE-PLAN.dwg LAYOUT NAME: C6-01 PLOTTED: Thursday, February 25, 2021 - 2:11pm USER: Norma.Presley

(N1) CONTRACTOR SHALL RE-INSTALL THE EXISTING 16' SINGLE LEAF SWING GATE IN-KIND AND INSTALL NEW 6' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE FOR THE LIMITS INDICATED IN THIS AREA.

FENCING POINT TABLE		
POINT ID	NORTHING	EASTING
F-40	771365.53	956963.09
F-41	771350.34	956983.07
F-42	771345.77	957210.00
F-43	771364.86	957237.27
F-50	771279.03	956836.93
F-51	771278.93	956866.78
F-52	771278.93	956882.78
F-53	771278.83	956899.08
F-54	771300.87	956900.58
F-55	771305.18	956917.05
F-56	771305.22	956928.70

**GENERAL FENCING NOTES**

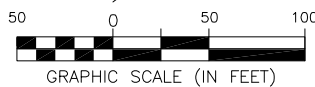
1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
2. THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) AREA WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
3. THE FINAL PROPOSED A.O.A. SECURITY FENCE AND THE GEORGIA AIR NATIONAL GUARD SECURITY FENCE SHALL BE 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE.
4. THE FINAL PROPOSED FENCE LOCATED AT BOB HARMON & CORPORATE ROAD SHALL BE 6' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE, REPLACED IN KIND.
5. THE FINAL PROPOSED FENCE LOCATED AT THE SOUTH SIDE OF THE FEDERAL EXPRESS FACILITY SHALL BE 6' HIGH CHAIN LINK WITH 3 STRANDS BARED WIRE, REPLACED IN KIND.
6. SEE DEMOLITION PLANS FOR LIMITS OF EXISTING FENCE TO BE REMOVED.
7. SEE TEMPORARY FENCING PLANS FOR INSTALLATION OF TEMPORARY FENCING TO SECURE AIRPORT OPERATIONS AREA AND GEORGIA AIR NATIONAL GUARD DURING THE CONSTRUCTION PROCESS.
8. THERE ARE TWO TYPES OF RESTRICTED AREA SIGNS TO BE INSTALLED. SIGN TYPE "S1" WILL BE FOR THE AIRPORT OPERATIONS AREA SECURITY FENCING. SIGN TYPE "S2" SHALL BE FOR THE G.A.N.G. SECURITY FENCING.
9. A.O.A. RESTRICTED AREA WARNING SIGNS (S1) SHALL BE INSTALLED AS INDICATED IN THESE PLANS.
10. A.O.A. RESTRICTED AREA WARNING SIGNS (S1) SHALL BE INSTALLED AS INDICATED IN THESE PLANS.
11. G.A.N.G. RESTRICTED AREA WARNING SIGNS (S2) SHALL BE INSTALLED OUTSIDE OF THE FENCE LINE ADJACENT TO DEAN FOREST RD, (HWY 307) EVERY 200 FEET AS INDICATED IN THESE PLANS.
12. THE COST OF THE RESTRICTED AREA SIGNS FOR A.O.A. & G.A.N.G. ARE PART OF THE BID ITEM "NEW RESTRICTED AREA SIGNS FOR NEW FENCE".

EXISTING SECURITY FENCE TO REMAIN (TYP)

CONTRACTOR SHALL INSTALL NEW 6' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE IN KIND FOR THE LIMITS INDICATED IN THIS AREA.

**CAUTION**

EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



**CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER**  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



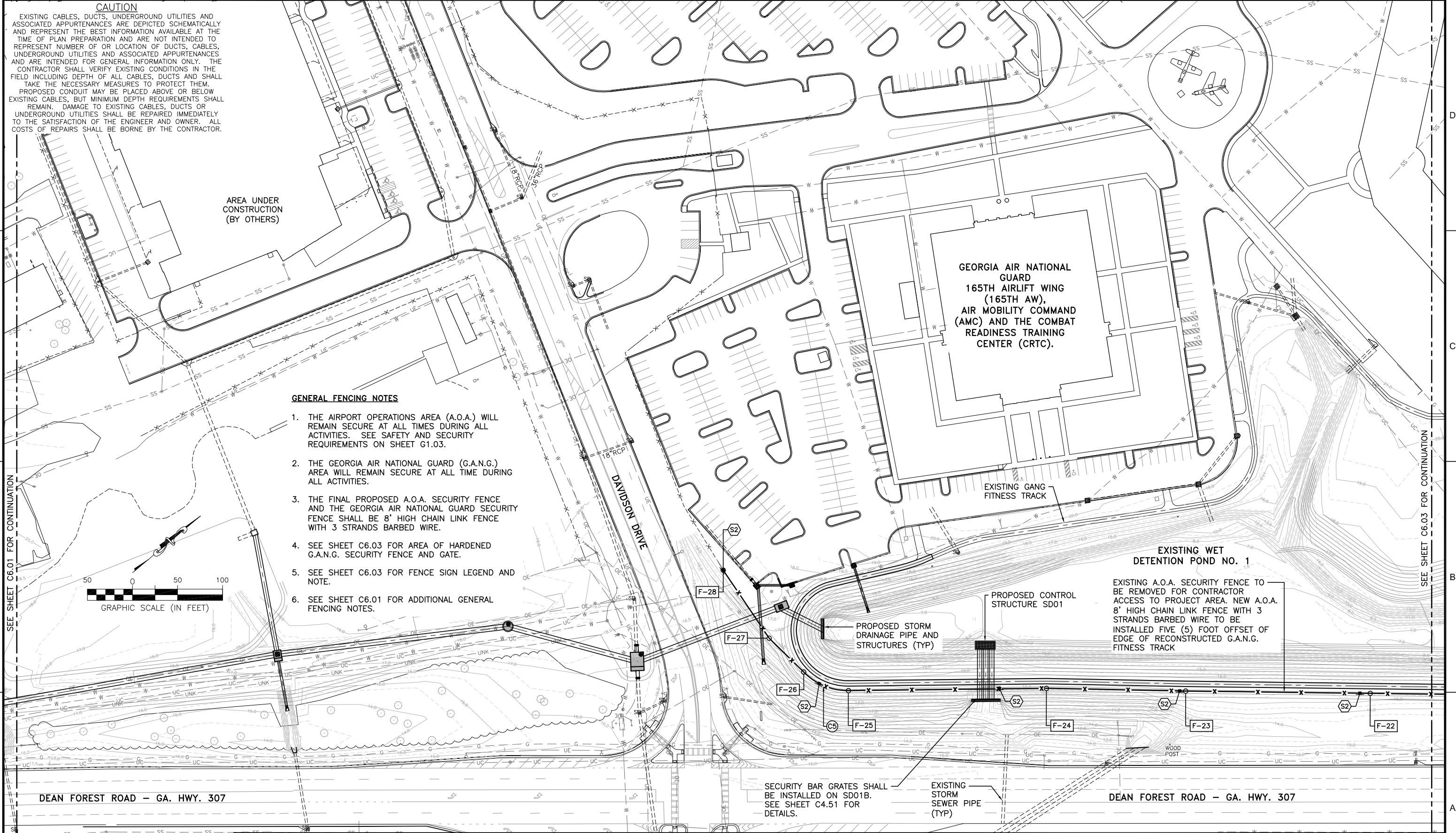
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
FENCING PLAN (1)	C6.01



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDrng\900-Work\910\_CAD\20-SHEETS\C6-01-04-FENCE-PLAN.dwg LAYOUT NAME: C6-02 PLOTTED: Thursday, February 25, 2021 - 2:11pm USER: Norma.Presley



**CAUTION**  
 EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

AREA UNDER CONSTRUCTION (BY OTHERS)

GEORGIA AIR NATIONAL GUARD  
 165TH AIRLIFT WING  
 (165TH AW),  
 AIR MOBILITY COMMAND  
 (AMC) AND THE COMBAT  
 READINESS TRAINING  
 CENTER (CRTC).

- GENERAL FENCING NOTES**
1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
  2. THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) AREA WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
  3. THE FINAL PROPOSED A.O.A. SECURITY FENCE AND THE GEORGIA AIR NATIONAL GUARD SECURITY FENCE SHALL BE 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE.
  4. SEE SHEET C6.03 FOR AREA OF HARDENED G.A.N.G. SECURITY FENCE AND GATE.
  5. SEE SHEET C6.03 FOR FENCE SIGN LEGEND AND NOTE.
  6. SEE SHEET C6.01 FOR ADDITIONAL GENERAL FENCING NOTES.

EXISTING WET DETENTION POND NO. 1

EXISTING A.O.A. SECURITY FENCE TO BE REMOVED FOR CONTRACTOR ACCESS TO PROJECT AREA. NEW A.O.A. 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE TO BE INSTALLED FIVE (5) FOOT OFFSET OF EDGE OF RECONSTRUCTED G.A.N.G. FITNESS TRACK

DEAN FOREST ROAD - GA. HWY. 307

DEAN FOREST ROAD - GA. HWY. 307

CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
 GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
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**AECOM**  
 AECOM Technical Services, Inc.  
 7650 W. Courtney Campbell Causeway  
 Tampa, FL 33607-1462  
 Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **FENCING PLAN (2)**

SHEET NO.: **C6.02**



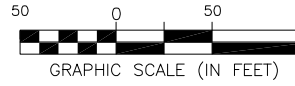
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C6-01-04-FENCE-PLAN.dwg LAYOUT NAME: C6-03 PLOTTED: Thursday, February 25, 2021 - 2:11pm USER: Norma.Presley

GEORGIA AIR NATIONAL GUARD  
165TH AIRLIFT WING (165TH AW),  
AIR MOBILITY COMMAND (AMC)  
AND THE COMBAT READINESS  
TRAINING CENTER (CRTC).

**GENERAL FENCING NOTES**

1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
2. THE GEORGIA AIR NATIONAL GUARD (G.A.N.G.) AREA WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
3. THE FINAL PROPOSED A.O.A. SECURITY FENCE AND THE GEORGIA AIR NATIONAL GUARD SECURITY FENCE SHALL BE 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE.
4. SEE SHEET C6.01 FOR ADDITIONAL GENERAL FENCING NOTES.

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD INCLUDING DEPTH OF ALL CABLES, DUCTS AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. PROPOSED CONDUIT MAY BE PLACED ABOVE OR BELOW EXISTING CABLES, BUT MINIMUM DEPTH REQUIREMENTS SHALL REMAIN. DAMAGE TO EXISTING CABLES, DUCTS OR UNDERGROUND UTILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL COSTS OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR.



EXISTING FENCE TO REMAIN (TYP)

NEW (2) 60"x38" ERCP WITH NEW STRUCTURE EACH END

NEW A.O.A. 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE TO BE INSTALLED. (TYP)

PROPOSED GRADES (TYP)  
EXISTING GRADES (TYP)

FENCING POINT TABLE		
POINT ID	NORTHING	EASTING
F-01	773124.73	959325.93
F-02	773163.13	959202.91
F-03	773196.11	959170.49
F-04	773336.57	959129.29
F-05	773375.49	959103.77
F-06	773520.50	958929.92
F-07	773541.92	958947.79
F-08	773601.75	958997.69
F-09	774250.88	959539.14
F-10	774260.69	959647.59
F-11	774114.98	959822.28
F-12	774138.76	959842.11
F-13	774133.00	959878.41
F-14	774076.09	959868.90
F-15	773954.12	960015.13
F-16	773868.35	959946.21
F-17	773224.60	959409.23
F-18	773144.70	959342.58
F-19	773132.41	959332.34
F-20	773071.02	959281.13

FENCING POINT TABLE		
POINT ID	NORTHING	EASTING
F-21	773017.00	959263.03
F-22	772874.74	959141.37
F-23	772719.15	959008.25
F-24	772602.33	958906.96
F-25	772432.07	958768.13
F-26	772407.25	958720.61
F-27	772401.80	958667.25
F-28	772411.04	958576.54

CURVE TABLE				
CURVE #	RADIUS	DELTA	LENGTH	TANGENT
C1	49.00	056°19'05"	48.16	48.16
C2	80.00	033°49'17"	47.22	47.22
C3	77.00	090°00'00"	120.95	120.95
C4	76.00	044°01'18"	58.39	58.39
C5	68.00	046°26'19"	55.11	55.11

**FENCE SIGN LEGEND**

- S1 NEW RESTRICTED AREA FENCE SIGN FOR AIRPORT OPERATION AREA SECURITY FENCE LINE
- S2 NEW WARNING RESTRICTED AREA FENCE SIGN FOR G.A.N.G. SECURITY FENCE LINE

**FENCE SIGN NOTE:**

THE COST OF THE SIGNS FOR THE NEW FENCE SIGNS, FOR A.O.A. AND G.A.N.G. FENCE LINES ARE INCLUDED IN THE BID ITEM FOR "NEW RESTRICTED AREA SIGNS FOR NEW FENCE." SEE SHEET C6.01 FOR ADDITIONAL GENERAL FENCING NOTES.

NEW WET DETENTION POND NO. 2

PROPOSED G.A.N.G. SECURITY GATE, 16' WIDE DOUBLE LEAF SWING GATE WITH CABLE REINFORCEMENT AND DEADMAN ANCHORS BETWEEN FENCE IDENTIFICATION NUMBERS F-18 AND F-19. SEE UFC 4-022-03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR THE G.A.N.G. FENCE & GATE.

EXISTING 55" SOUTHERN RED OAK TO REMAIN

PROPOSED CONTROL STRUCTURE SD02A

SECURITY BAR GRATES SHALL BE INSTALLED ON SD02C & SD02D. SEE SHEET C4.51 FOR DETAILS.

DEAN FOREST ROAD - GA. HWY. 307

NEW A.O.A. 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE TO BE INSTALLED. (TYP)

EXISTING A.O.A. SECURITY FENCE TO REMAIN (TYP)

ROBERT B. MILLER DR.

NEW A.O.A. 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE TO BE INSTALLED, SEE FENCING DETAILS ON SHEETS C6.05 THRU C6.07

CONTRACTOR SHALL INSTALL NEW 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE WITH CABLE REINFORCEMENT AND DEADMAN ANCHORS BETWEEN FENCE IDENTIFICATION NUMBERS F-17 TO F-18 AND F-19 TO F-20, SEE FENCING DETAILS ON SHEETS C6.08 THRU C6.12.

NEW A.O.A. 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE TO BE INSTALLED FIVE (5) FOOT OFFSET FROM PROPOSED 8' WIDE BERM. SEE FENCING DETAILS ON SHEETS C6.05 THRU C6.07

CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

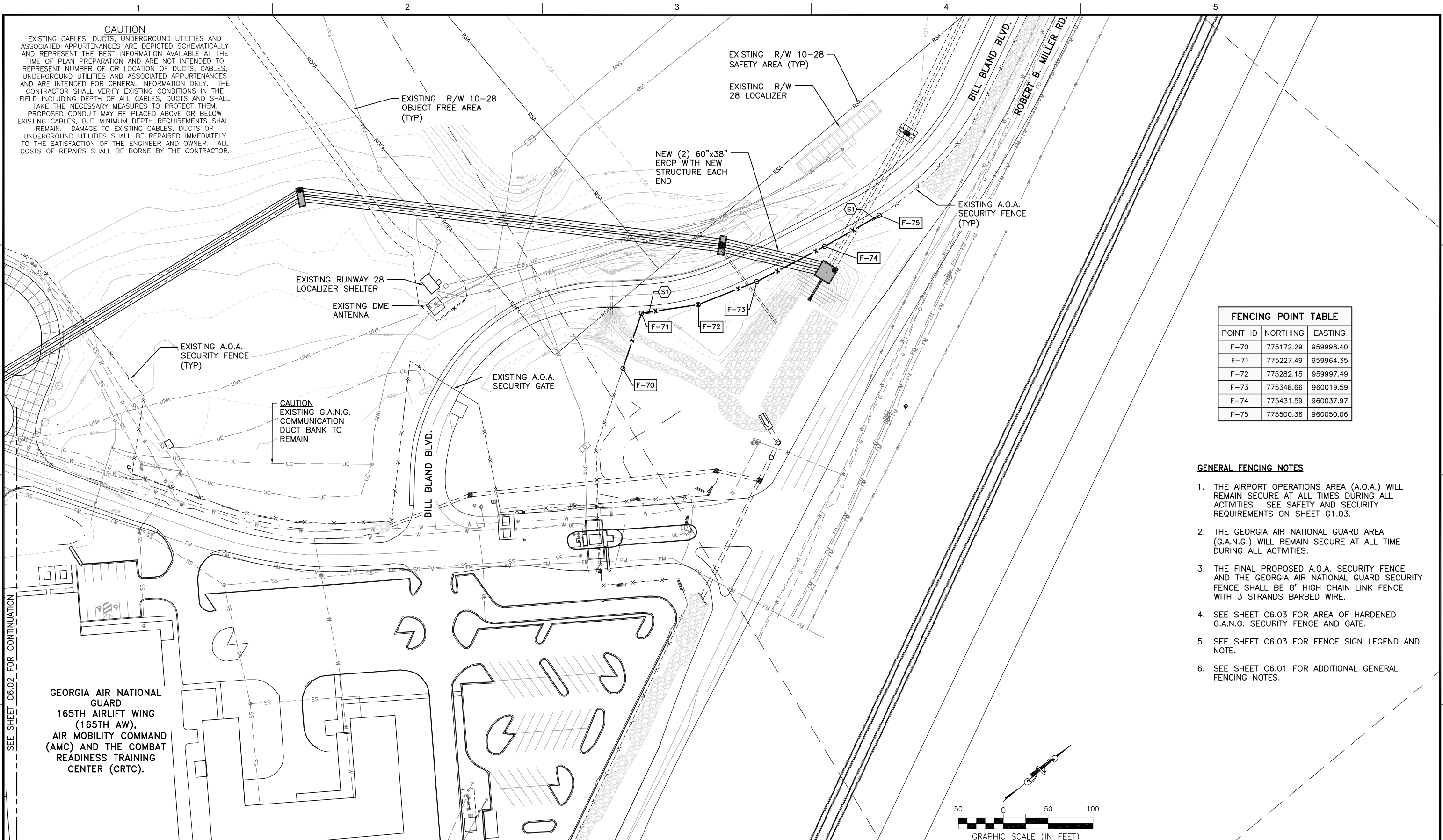
SHEET TITLE	SHEET NO.
FENCING PLAN (3)	C6.03

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910\_CAD\20-SHEETS\C6-01-04-FENCE-PLAN.dwg LAYOUT NAME: C6-04 PLOTTED: Thursday, February 25, 2021 - 2:11pm USER: Norma.Presley

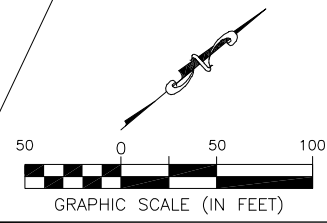
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FENCING POINT TABLE		
POINT ID	NORTHING	EASTING
F-70	775172.29	959998.40
F-71	775227.49	959964.35
F-72	775282.15	959997.49
F-73	775348.66	960019.59
F-74	775431.59	960037.97
F-75	775500.36	960050.06

- GENERAL FENCING NOTES**
1. THE AIRPORT OPERATIONS AREA (A.O.A.) WILL REMAIN SECURE AT ALL TIMES DURING ALL ACTIVITIES. SEE SAFETY AND SECURITY REQUIREMENTS ON SHEET G1.03.
  2. THE GEORGIA AIR NATIONAL GUARD AREA (G.A.N.G.) WILL REMAIN SECURE AT ALL TIME DURING ALL ACTIVITIES.
  3. THE FINAL PROPOSED A.O.A. SECURITY FENCE AND THE GEORGIA AIR NATIONAL GUARD SECURITY FENCE SHALL BE 8' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE.
  4. SEE SHEET C6.03 FOR AREA OF HARDENED G.A.N.G. SECURITY FENCE AND GATE.
  5. SEE SHEET C6.03 FOR FENCE SIGN LEGEND AND NOTE.
  6. SEE SHEET C6.01 FOR ADDITIONAL GENERAL FENCING NOTES.

GEORGIA AIR NATIONAL GUARD  
 165TH AIRLIFT WING  
 (165TH AW),  
 AIR MOBILITY COMMAND  
 (AMC) AND THE COMBAT  
 READINESS TRAINING  
 CENTER (CRTC).



CALL BEFORE YOU DIG - UTILITIES PROTECTION CENTER  
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DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
 ENGINEERS • SURVEYORS  
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 Savannah, Georgia | (912) 200-3041

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 AECOM Technical Services, Inc.  
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**SAVANNAH HILTON HEAD INTERNATIONAL**  
 Savannah / Hilton Head International Airport  
 400 Airways Avenue  
 Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **FENCING PLAN (4)**

SHEET NO.: **C6.04**

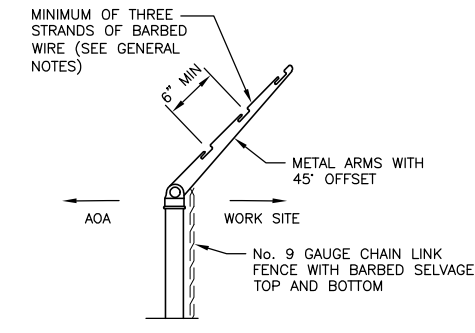


**GENERAL NOTES:**

- DIMENSIONS:**  
ALL DIMENSIONS, SIZES, GAUGES, WEIGHTS, OR THICKNESSES SHOWN ARE THE MINIMUM ACCEPTABLE, UNLESS OTHERWISE INDICATED
- SPECIFICATIONS:**  
THE FEDERAL SPECIFICATIONS SHOWN SHALL BE INTERPRETED TO MEAN THE LATEST ISSUE OR AMENDMENT OF SUCH SPECIFICATION, IN EFFECT ON THE DATE OF PLAN APPROVAL.  
  
FAA SPECIFICATIONS SHOWN ARE FROM THE FEDERAL AVIATION ADMINISTRATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS"  
  
MATERIALS AND CONSTRUCTION METHODS NOT DETAILED HEREON, SHALL BE IN ACCORDANCE WITH THE FAA SPECIFICATION LISTED FOR EACH CLASS OF FENCE, UNLESS OTHERWISE NOTED ON THE CONTRACT PLANS.  
  
GATES ARE MEASURED IN UNITS FOR EACH TYPE AND SIZE INSTALLED
- BARBED WIRE:**  
BARBED WIRE SHALL BE ZINC COATED, MEETING REQUIREMENTS OF ASTM A 121, CLASS 3, OR ALUMINUM COATED MEETING REQUIREMENTS OF ASTM A 585, CLASS II. WIRE SHALL BE TWO STRAND TWISTED No. 12-1/2 ASW GAUGE STEEL, WITH FOUR POINT BARBS, No.14 ASW GAUGE MINIMUM 1/2" MINIMUM LENGTH, SPACED ON APPROXIMATELY 5" CENTERS. TENSION SHALL BE TO SATISFACTION OF THE ENGINEER. NO CRIMPING OR SPLICING SHALL BE USED TO OBTAIN PROPER TENSION.
- CONCRETE:**  
CONCRETE SHALL BE 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI COMPLYING WITH ITEM P-610. FOOTING TOPS SHALL BE 1" MINIMUM ABOVE GROUND AT THE POST, AND TROWEL FINISHED TO SLOPE AWAY FROM POST.
- OPENINGS UNDER FENCE:**  
ANY OPENING UNDER FENCES, WHEREIN THE BOTTOM FENCE WIRE IS MORE THAN 4" ABOVE GROUND AND THE TOTAL AREA OF OPENING IS 96 SQ. INCHES OR MORE, SHALL BE CLOSED.  
  
OPENINGS LESS THAN 12" HIGH SHALL BE CLOSED BY INSTALLING ONE OR MORE ADDITIONAL LINE POSTS NEAR THE OPENING CENTER AND STRETCHING STRANDS OF BARBED WIRE BETWEEN THE EXTRA POSTS AND ADJACENT LINE POSTS AT 6" MAXIMUM VERTICAL SPACING, VERTICAL STRANDS OF BARBED WIRE SHALL BE INSTALLED AT 12" MAXIMUM HORIZONTAL SPACING AND TIED TO ALL HORIZONTAL STRANDS AND THE FABRIC BOTTOM WIRE. THIS WORK SHALL BE INCIDENTAL TO FENCE INSTALLATION COSTS. OPENINGS 18" OR MORE IN HEIGHT, OPENINGS IN HIGH SECURITY RISK AND HAZARD AREAS, DITCHES, DRAINAGE COURSES, ETC., SHALL BE CLOSED BY METHODS DETAILED ON THE CONTRACT PLANS. PAYMENT FOR CLOSURES DETAILED ON THE PLANS SHALL BE AS NOTED ON THE CONTRACT PLANS.
- GROUND RODS, CLASS "F" FENCE ONLY:**  
GROUND RODS SHALL BE INSTALLED AT 400' MAXIMUM INTERVALS, INCIDENTAL TO FENCE COST. EACH SECTION OF FENCE SEPARATED BY NON-METALLIC CONNECTORS, BUILDINGS OR OTHER OPENINGS SHALL HAVE A MINIMUM OF ONE GROUND ROD. EACH GATE LEAF FRAME SHALL BE CONNECTED TO THE GATE POST BY A BRAIDED FLEXIBLE COPPER STRAP. EACH GATE POST SHALL BE GROUNDED AS DETAILED. GROUND RODS SHALL BE 3/4" x 10' MIN. SIZE, COPPER CLAD. ALL GROUND RODS TO BE TESTED WITH MAXIMUM RESISTANCE TO GROUND OF 10 OHMS. GROUND CABLE SHALL BE NO. 6 AWG. MIN., BARE STRANDED COPPER WIRE. FOR FENCES GROUNDING SHALL BE AS DETAILED. IF GROUNDING IS REQ'D THROUGH EXISTING RUNWAY/TAXIWAY/APRON PAVEMENT, CONTRACTOR SHALL CORE A 4-INCH HOLE THROUGH THE PAVEMENT AND PLACE REQUIRED GROUND ROD. CONNECTIONS TO FENCE AND RODS SHALL BE MADE WITH SUITABLE NONCORROSIVE METAL CLAMPS, LUG OR CONNECTORS.
- FENCE LINE AND ALIGNMENT:**  
FENCE LINES SHALL BE CLEARED OF ALL OBSTRUCTIONS AND SMOOTH GRADED TO THE GENERAL CONTOUR OF THE ADJACENT GROUND FOR A 2' MIN TO 10' MAX. WIDTH EACH SIDE OF LINE, INCIDENTAL TO FENCE COSTS. STUMPS AND ROOTS NOT INTERFERING WITH FENCE CONSTRUCTION, MAY BE CHIPPED TO GROUND LEVEL.  
  
THE FENCE SHALL BE CONSTRUCTED VERTICAL, STRAIGHT AND TRUE TO LINE. THE LONGITUDINAL GRADIENT SHALL PARALLEL THE GENERAL SLOPE OF THE GROUND.
- FENCE SIGNAGE:**  
ANY SIGNS MOUNTED ON EXISTING FENCING TO BE REMOVED SHALL BE REMOUNTED ON NEW FENCING MATERIALS AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER. ANY NEW SIGNS TO BE PLACED ON NEW OR EXISTING FENCING MATERIALS SHALL BE DETAILED ON THE PLANS. ALL FURNISHING AND INSTALLING OF SIGNAGE IS INCIDENTAL TO ITEM F-162.

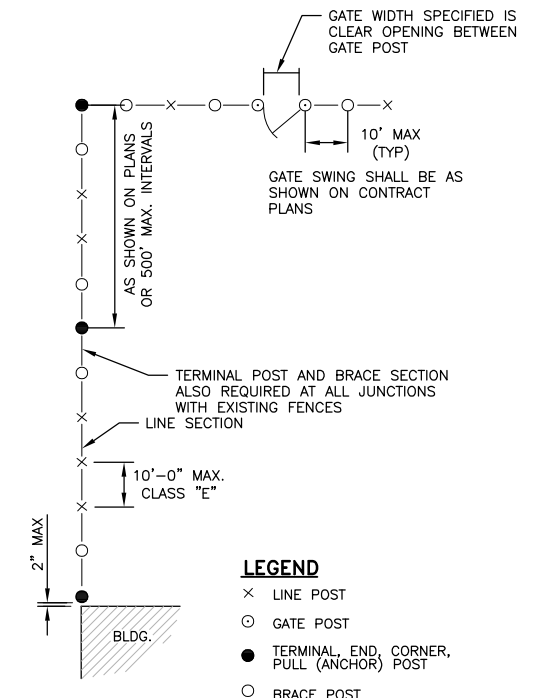
**GENERAL FENCE AND GATE NOTES:**

- SEE EXISTING CONDITIONS AND DEMOLITION PLANS FOR THE LIMITS OF EXISTING FENCE DEMOLITION AND NEW A.O.A. FENCE REPLACEMENT.
- ALL PROPOSED AIR OPERATIONS AREA (AOA) SECURITY FENCES AND GATES SHOWN ON THE DEMOLITION AND GEOMETRY LAYOUT PLAN (2) ARE 8 FEET HIGH WITH 3 STRANDS OF BARBED WIRE, FAA SPECIFICATION F-162, CLASS E WITH BARBED WIRE.
- ONLY THE FINAL AOA FENCE IS SHOWN ON THE GEOMETRY PLAN. REFER TO EXISTING CONDITIONS & DEMOLITION PLANS AND CONSTRUCTION PHASING PLANS FOR FURTHER DISCUSSION OF TEMPORARY FENCE AND GATES IF APPLICABLE.
- THE LOCATION AND QUANTITIES OF FENCE AND GATES ARE APPROXIMATE AND MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION PHASING IN THIS CONTRACT OR OTHER CONTRACTS.
- EXISTING FENCE FABRIC, POST AND GATES IN GOOD CONDITION OR NEW MATERIAL PROVIDED BY THE CONTRACTOR, MAY BE USED TO CONSTRUCT TEMPORARY OR FINAL FENCE AND GATES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. HOWEVER, A CONTINUOUS AOA SECURITY BARRIER SHALL BE MAINTAINED AT ALL TIMES. NEW MATERIALS MAY BE REQUIRED TO CONSTRUCT NEW FENCE LINES BEFORE OLD FENCE LINES ARE REMOVED.
- THE NEW FENCE FOR THIS PROJECT SHALL BE INSTALLED VERTICAL.



**TYPE No.1**  
(REQUIRED THIS CONTRACT)  
TYPE No. 1 ARMS SHALL BE INSTALLED ON SIDE AWAY FROM AIRPORT PROPERTY OR AIRCRAFT OPERATIONS AREA.

**BARBED WIRE EXTENSION ARMS**  
N.T.S.



**LEGEND**  
x LINE POST  
o GATE POST  
● TERMINAL, END, CORNER, PULL (ANCHOR) POST  
○ BRACE POST

**TYPICAL FENCE LAYOUT**  
N.T.S. ALL CLASSES

**NOTES: CLASS "E" FENCE**

- FABRIC:** 2"x2" No. 9 GAUGE WIRE MESH WITH GALVANIZED STEEL WIRE PER ASTM A 392, CLASS II.
- SELVAGE RAILS & TENSION WIRES:** FENCES SHALL HAVE BARBED SELVAGE AND 7 GAUGE COILED SPRING TENSION WIRES PROVIDED AT BOTTOM, AND TOP RAIL ALONG TOP OF FENCE LINE. BARBED SELVAGE WIRE SHALL EXTEND 1'-0" ABOVE THE TOP RAIL.
- FABRIC FASTENERS:** MINIMUM 3/16" x 3/4" STRETCHER BAR, BANDED TO TERMINAL POSTS; OR INTEGRAL FABRIC FITTINGS ON TERMINAL POSTS. USE NO. 6 WIRE CLIPS FOR LINE POSTS AND NO. 9 WIRE CLIPS FOR BRACES, RAILS, AND TENSION WIRES. ALL FASTENERS SPACED 14" MAX. VERTICALLY, 24" MAX HORIZONTALLY.
- COATINGS:** ZINC COATING ON POSTS, RAILS, GATE FRAMES AND STEEL FITTINGS SHALL AVERAGE 2.0 OZ./S.F. NO INDIVIDUAL SPECIMEN SHALL HAVE LESS THAN 1.8 OZ./S.F.  
  
COATINGS ON STEEL FABRIC SHALL MEET THE FOLLOWING MINIMUMS: TYPE I (ZINC COATED) , 2.0 OZ./S.F., TYPE II (ALUMINUM COATED), 0.40 OZ./S.F.
- FENCE HEIGHT:** THE FABRIC HEIGHT IS THE NOMINAL FENCE HEIGHT.

CHAIN LINK FENCE MEMBERS DIMENSIONS & WEIGHTS (FED. SPEC. RR-F-00191/3E)						
DESCRIPTION	SECTION	STEEL FRAME			ALUMINUM FRAME*	
		OUTSIDE DIMENSIONS (INCHES)	WEIGHT (LBS./FT.)	THICKNESS (INCHES)	OUTSIDE DIMENSIONS (INCHES)	WEIGHT (LBS./FT.)
TERMINAL,CORNER,BRACE,END. & PULL POSTS	○	2.375		0.130	2.351	1.264
FABRIC HEIGHTS 6' & LESS	□	2.00x2.00	2.60		N/A	N/A
FABRIC HEIGHTS OVER 6'	○	2.875		0.160	N/A	N/A
	□	2.50x2.50	5.10		N/A	N/A
ALL HEIGHTS	ROLL FORM	3.5 x 3.5	5.10		N/A	N/A
GATE POSTS	○	2.875		0.160	3.96	3.15
GATE LEAF WIDTH 6' AND LESS	□	2.50x2.50	5.10		N/A	N/A
GATE LEAF WIDTH OVER 6' THRU 13'	○	4.00		0.226	3.96	3.15
GATE LEAF WIDTH OVER 13' THRU 18'	○	6.625		0.280	6.559	6.56
GATE LEAF WIDTH OVER 18' THRU 23'	○	8.625		0.322	8.625	9.88
LINE POSTS	○	1.90		0.120	1.90	0.94
FABRIC HEIGHTS 6' & LESS	○	2.375		0.130	2.35	1.26
FABRIC HEIGHTS OVER 6'	○	2.875		0.160	N/A	N/A
ALL HEIGHTS	ROLL FORM	3.50x3.50	5.10		N/A	N/A
ALL HEIGHTS	H	2.25x1.70	3.43		2.25x2.00	1.22
RAILS & BRACES	○	1.660		0.111	1.629	0.786
	ROLL FORM	1.625x1.250	1.35		N/A	N/A

\*TO BE USED ONLY IF ALUMINUM ALLOY FABRIC IS SPECIFIED ON THE CONTRACT PLANS

**CHAIN LINK FENCE, CLASS E, FAA SPEC. F-162**

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



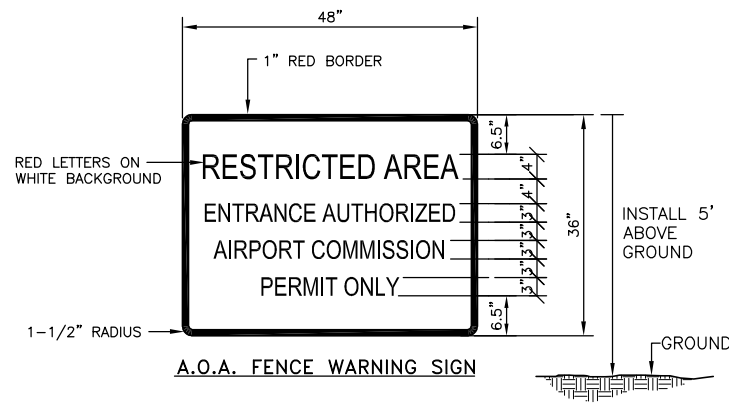
PM: RWP
DWG. BY: APD
CHK. BY: SGH
DSG. BY: APD
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>FENCING DETAILS A.O.A. (1)</b>	
SHEET NO.	<b>C6.05</b>

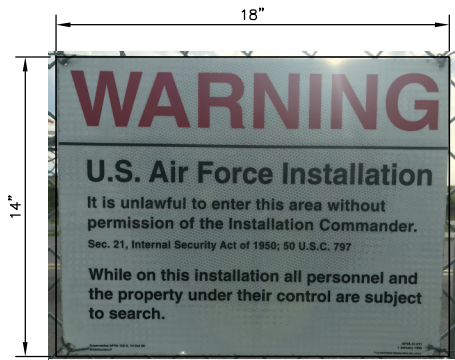
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FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\C6-05-07-FENCE DTLs.dwg LAYOUT NAME: C6-06 PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Presley



A.O.A. FENCE WARNING SIGN



G.A.N.G. FENCE WARNING SIGN

**NOTES:**

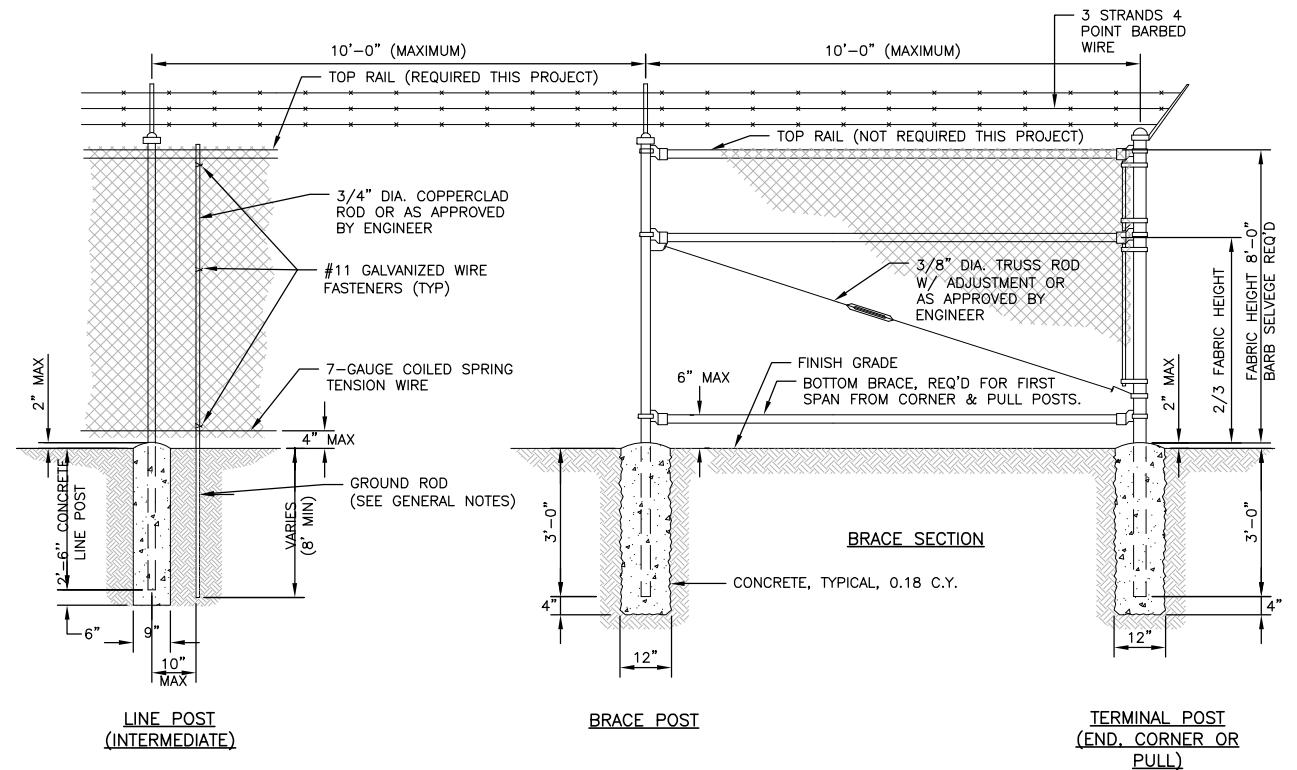
- SIGN COST SHALL BE INCLUDED IN THE BID ITEM FOR "RESTRICTED AREA SIGNS". SIGNS SHALL BE PLACED ALONG THE AIRPORT SECURITY FENCE LINE AT THE DIRECTION OF THE ENGINEER IN THE FILED. SIGNS SHALL BE SPACED A MINIMUM OF 200 FEET APART ALONG THE NEW SECURITY FENCE LINE.
- THE NEW 18"x14" USAF WARNING SIGNS SHALL BE LOCATED AS INDICATED IN THE FENCING PLANS. THESE SIGNS SHALL BE LOCATED BETWEEN HEADQUARTERS ROAD TO DAVIDSON DRIVE AS SHOWN. CONTRACTOR SHALL MATCH EXISTING SIGNS AND ATTACHMENT INSTALLATION.

**SIGN DETAILS**

N.T.S.

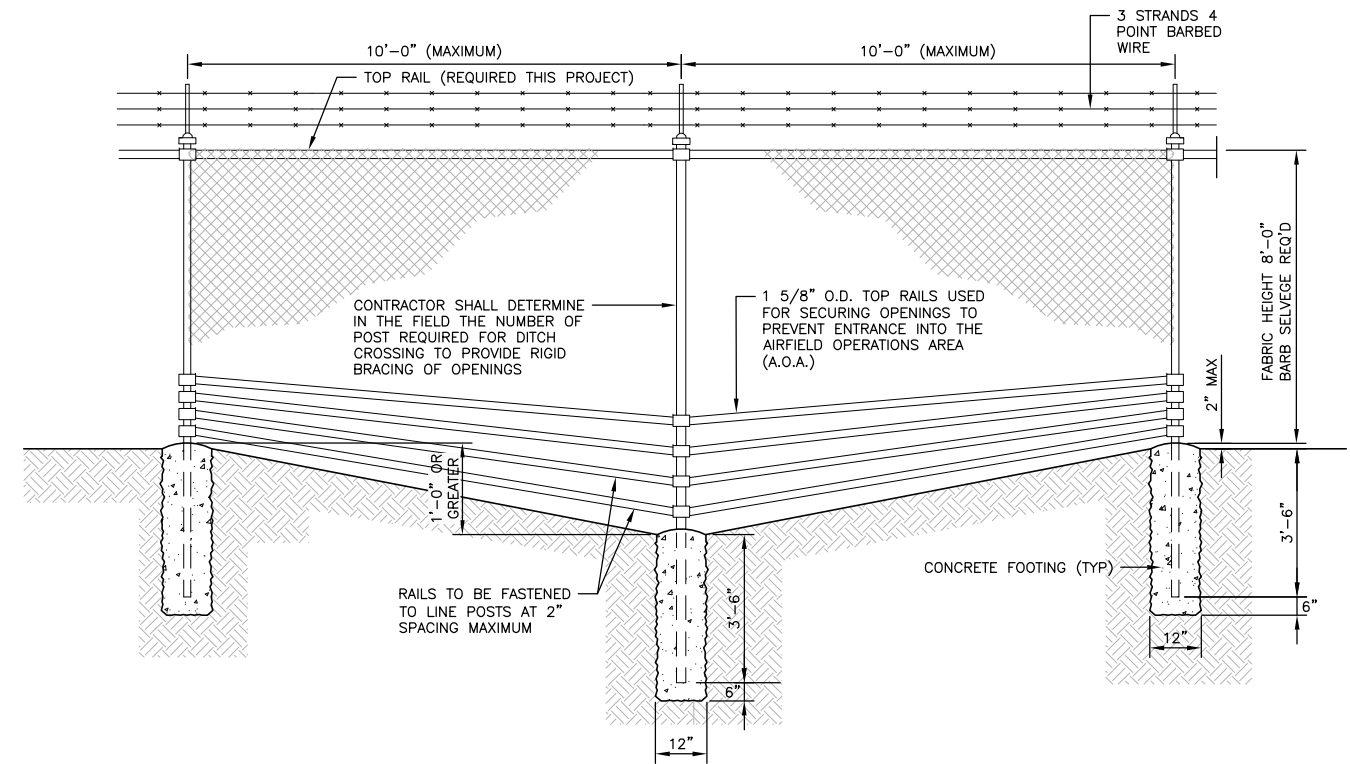
**SIGN DETAILS**

- SIGNS TO BE ALUMINUM OR GALVANIZED STEEL WITH A MINIMUM THICKNESS OF 0.08".
- REFLECTORIZED PAINT TO BE USED.
- ALL SIGNS TO BE MOUNTED USING 2 BRACKETS.



CHAIN LINK FENCE - CLASS E - F-162 FAA SPEC

N.T.S.



FENCE DITCH CROSSING DETAIL

N.T.S.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

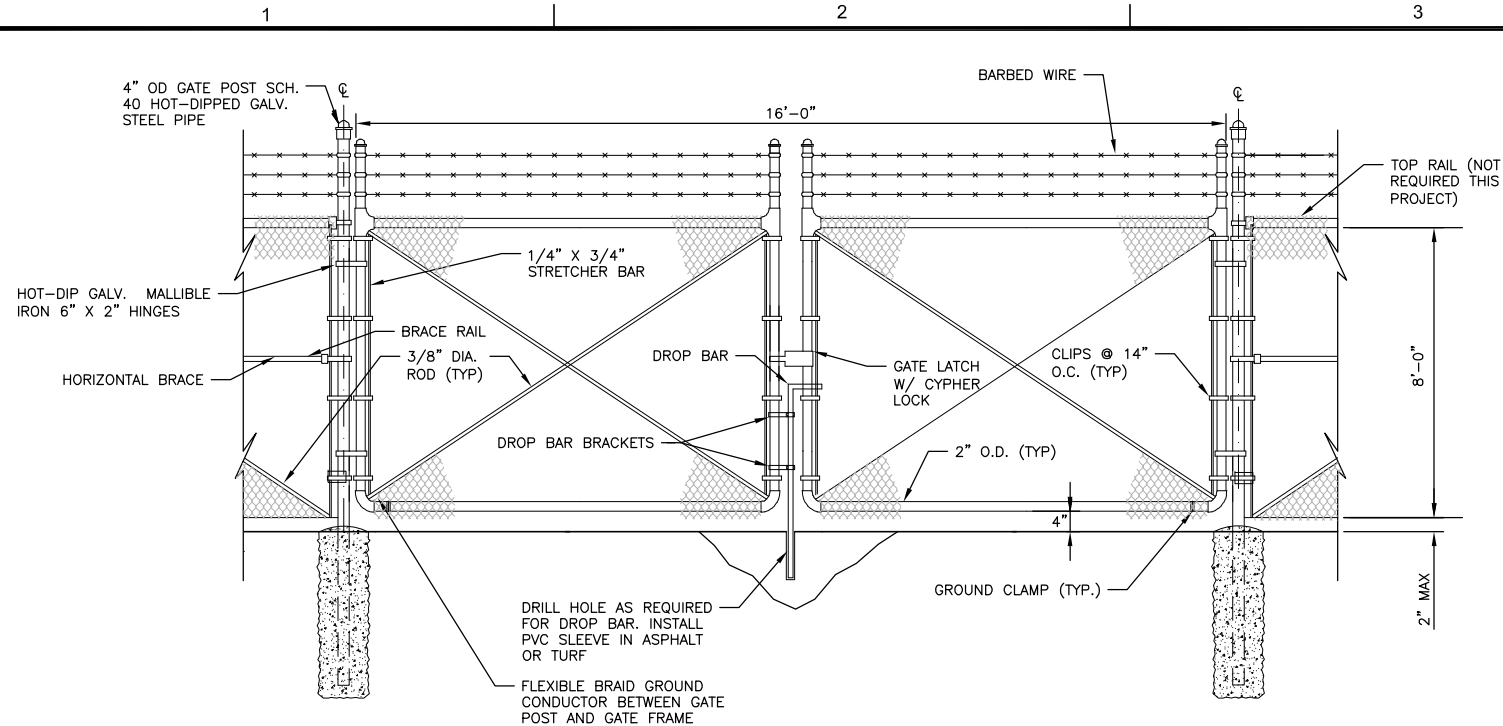


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS	
SHEET TITLE	FENCING DETAILS A.O.A. (2)
SHEET NO.	C6.06



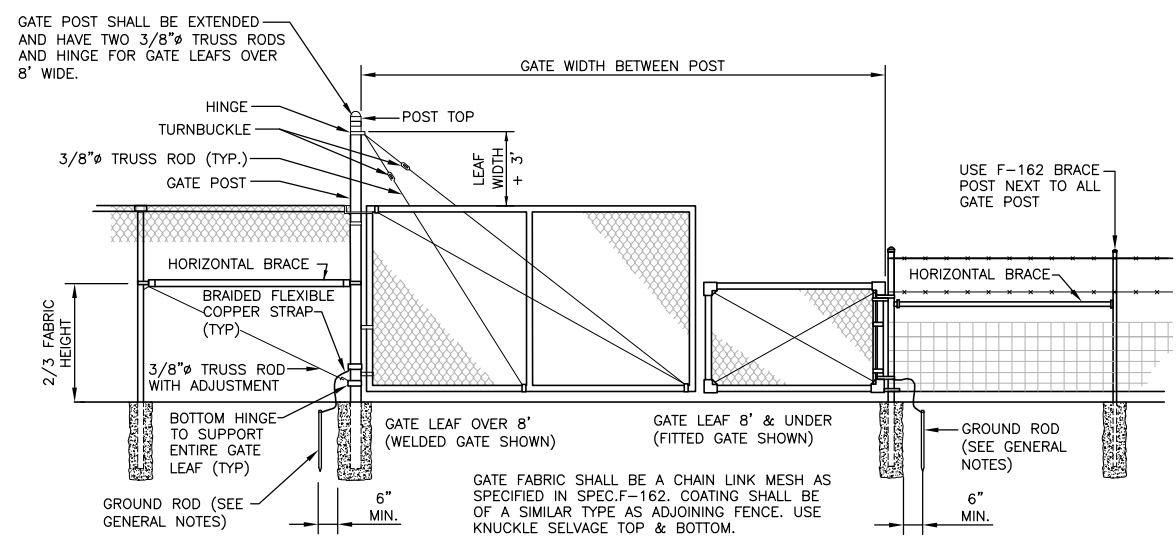
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**16' SWING GATE**  
N.T.S.

GATE FRAME DIMENSIONS & WEIGHTS (FED. SPEC. RR-F-191)					
DESCRIPTION	SECTION	STEEL FRAME		ALUMINUM FRAME *	
		OUTER DIMENSION (INCHES)	WEIGHT (LB./FT.)	OUTER DIMENSION (INCHES)	WEIGHT
FABRIC HEIGHT 6' & LESS & LEAF WIDTH 8' OR LESS	○	1.66	2.27	1.90	0.94
	□	1.50	1.90	2.00	0.94
FABRIC HEIGHT OVER 6' AND/OR ALL LEAF WIDTHS OVER 8'	○	1.90	2.72	1.90	0.94
	□	2.00	2.60	2.00	0.94
INTERIOR BRACING	○	1.66	2.27	1.90	0.94
	□	1.50	1.90	2.00	0.94

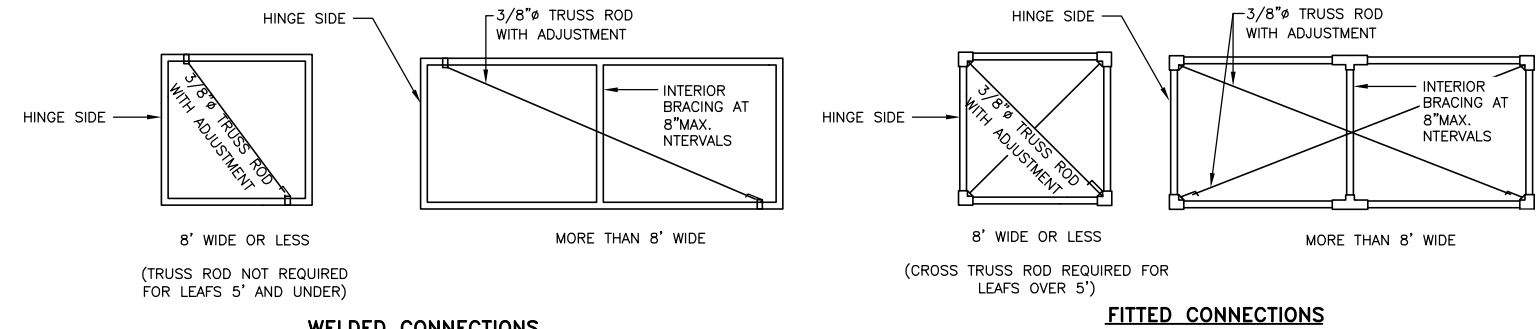
\* SEE FAA SPEC. F-162 FOR DETAILS TO BE USED ONLY WITH ALUMINUM FENCE  
NOTE: WHEN BARBED WIRE TOP IS SPECIFIED, THE GATE FRAME END MEMBERS SHALL BE EXTENDED 12" MINIMUM ABOVE TOP HORIZONTAL MEMBER TO ATTACH THREE UNIFORMLY SPACED WIRES. SPACE ADDITIONAL SUPPORTS AT 8' MAXIMUM.



**GATE NOTES**

- ① GATE HINGES AND FITTINGS SHALL BE HEAVY PATTERN AND EASILY OPERATED BY ONE PERSON. BOTTOM HINGE SHALL BE BALL AND SOCKET, OR EQUAL, AND CAPABLE OF SUPPORTING ENTIRE WEIGHT OF GATE LEAF.
- ② GATE LEAFS SHALL BE INSTALLED AS DETAILED ON THE CONTRACT PLANS.
- ③ WELDS ON STEEL FRAMES SHALL BE GROUND SMOOTH THOROUGHLY CLEANED AND COVERED WITH ALUMINUM OR ZINC BASE PAINT.
- ④ GATES AND FITTINGS SHALL MEET FAA SPEC. F-162
- ⑤
- ⑥ WHEN BARBED WIRE EXTENSION ARMS ARE SPECIFIED FOR FENCE, THE GATE POSTS SHALL BE EXTENDED 12" MINIMUM ABOVE THE TOP OF THE FENCE FABRIC FOR TERMINATING THE BARBED WIRE.

**GATE DETAILS AND SPECIFICATIONS - CHAIN LINK, FAA SPEC. F-162**  
N.T.S.



**WELDED CONNECTIONS**

**GATE FRAMES**  
N.T.S.

**FITTED CONNECTIONS**

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

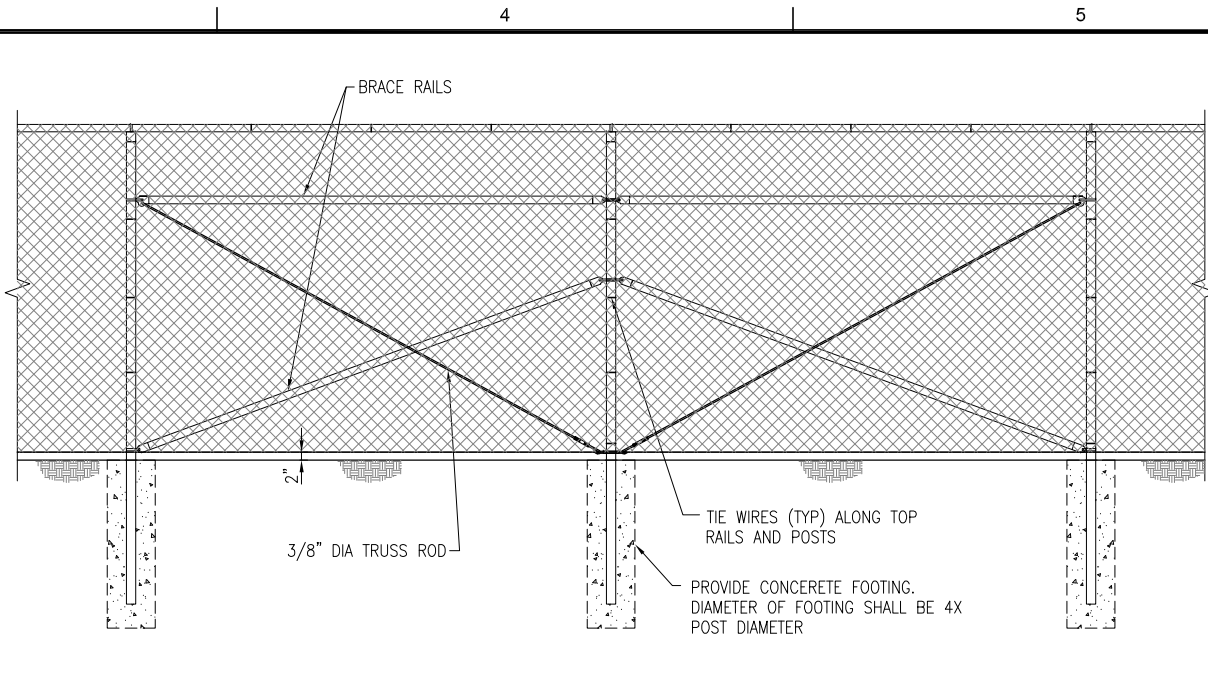
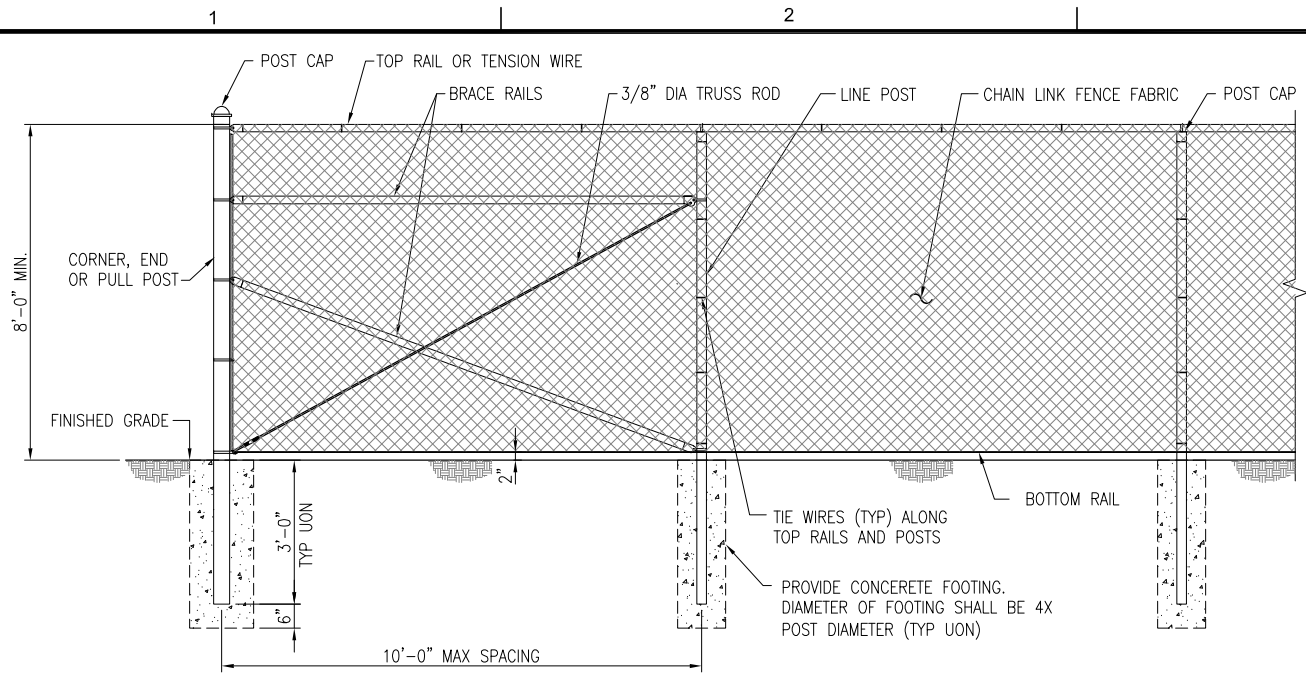


PM: RWP
DWG. BY: APD
CHK. BY: SGH
DSG. BY: APD
SCALE: AS NOTED
PROJECT NO. 60611019
DATE: MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>FENCING DETAILS A.O.A. (3)</b>	
SHEET NO.	<b>C6.07</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C6-08 - GANG UFC-700.dwg LAYOUT NAME: C6-08 PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley

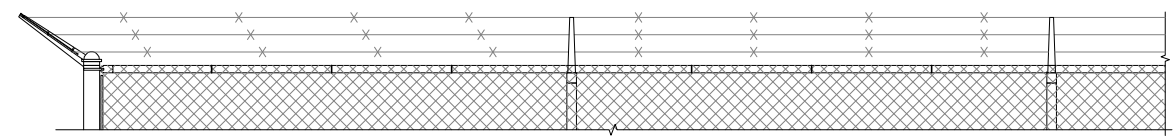


**TYPICAL FENCE AND CORNER PANEL ELEVATION**

SCALE: 1" = 1'-0"

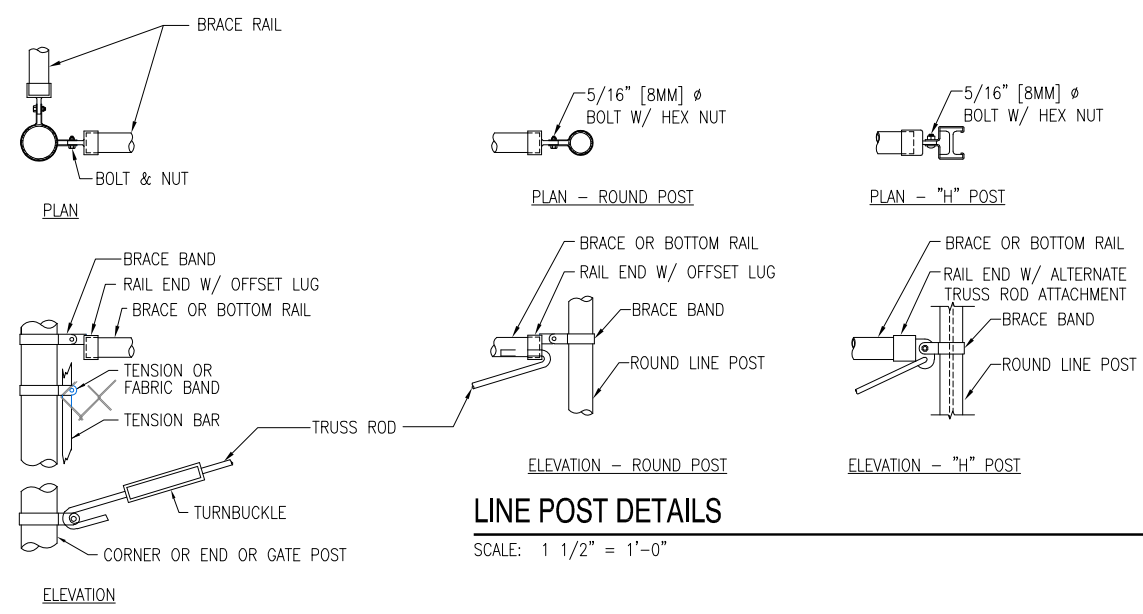
**TYPICAL FENCE AND BRACED PANEL ELEVATION**

SCALE: 1" = 1'-0"



**TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM CONFIGURATION**

SCALE: 1" = 1'-0"

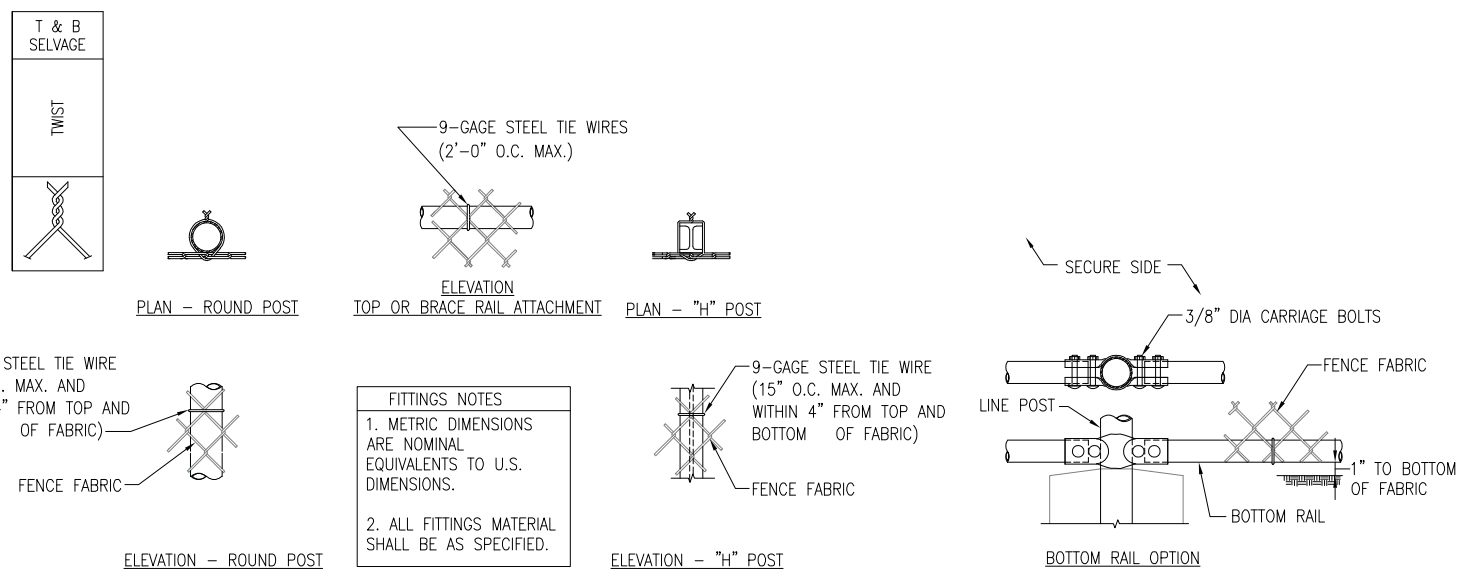


**LINE POST DETAILS**

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

**CORNER OR END POSTS**

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



**FITTINGS NOTES**  
 1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.  
 2. ALL FITTINGS MATERIAL SHALL BE AS SPECIFIED.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

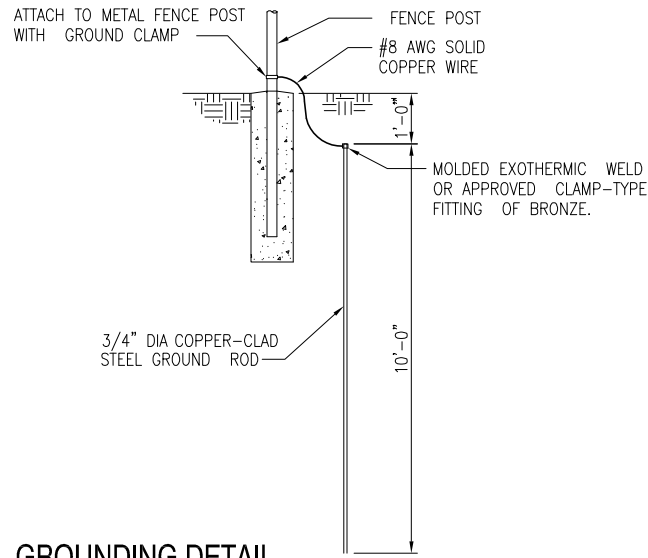


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>FENCING DETAILS G.A.N.G UFC (1)</b>	<b>C6.08</b>

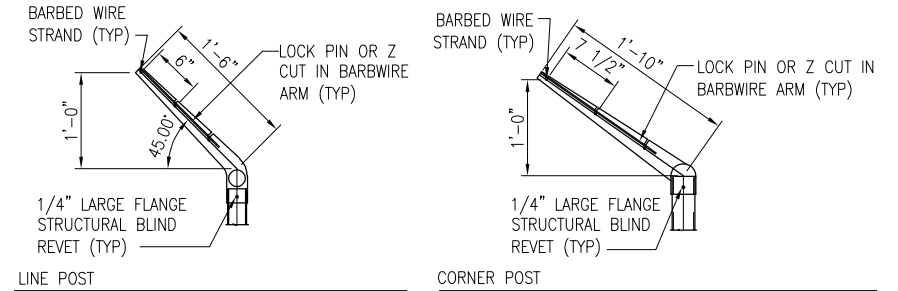
DRAWING SIZE REDUCED IF LESS THAN 34"x22"





**GROUNDING DETAIL**

NO SCALE



**SINGLE EXTENSION ARM DETAILS**

NO SCALE

**CHAIN LINK FENCING NOTES**

- FABRIC:** THE STANDARD FENCE FABRIC SHALL BE VINYL, ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAUGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAUGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAUGE.
- FABRIC TIES:** ONLY 12-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
- REINFORCEMENT:** TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
- FENCE HEIGHT:** CHAIN LINK FABRIC SHALL BE 8' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 9'.
- GROUND CLEARANCE:** BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
- TOP GUARDS:** A TOP GUARD IS AN OVERHANG OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45° ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.
- FENCE POSTS:** SHALL BE ASTM F1043 OR F1083 ROUND PIPE OR SQUARE TUBE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" OC. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRmg\Design\900-Work\910 CAD\20-SHEETS\C6-09 - GANG UFC-701.dwg LAYOUT NAME: C6-09 PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
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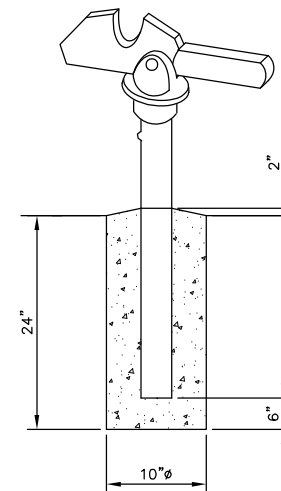
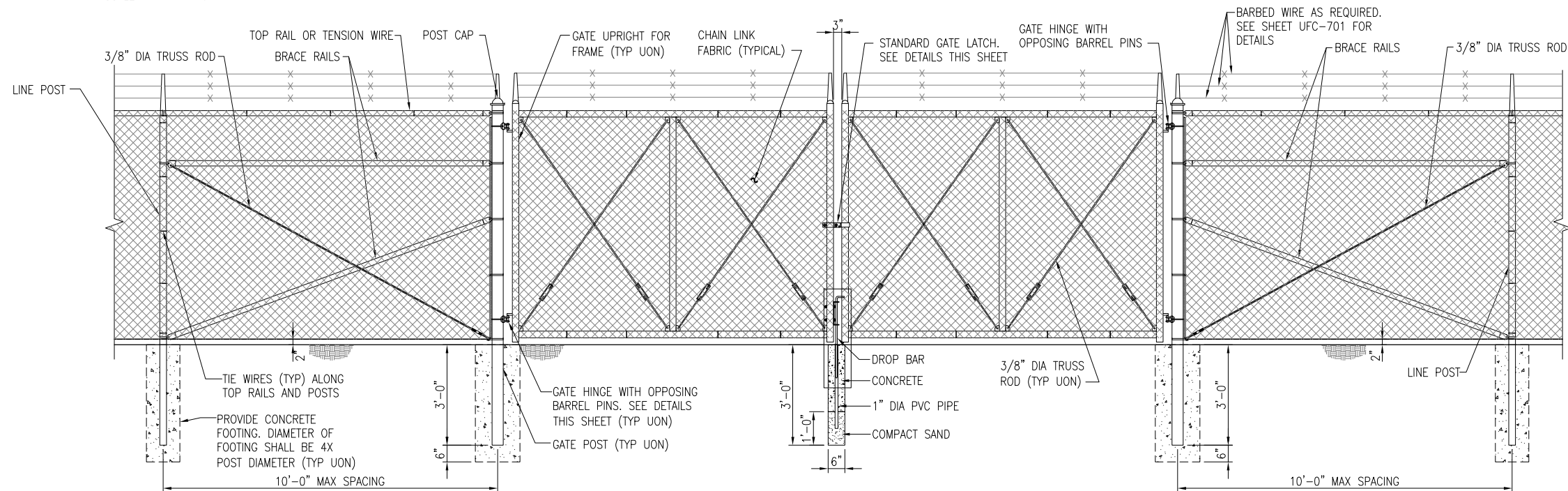
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>FENCING DETAILS G.A.N.G UFC (2)</b>	<b>C6.09</b>



**PLAN - DOUBLE SWING GATE**

SCALE: 1" = 1'-0"



NOTE:  
1. LOCATION OF GATE KEEPER SHALL BE APPROVED BY CONTRACTING OFFICER.

**GATE KEEPER**  
(TO HOLD GATE OPEN)  
NOT TO SCALE

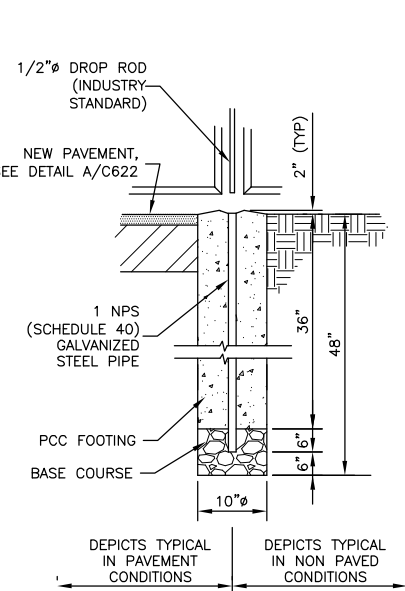
**TYPICAL DOUBLE SWING GATE ELEVATION**

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

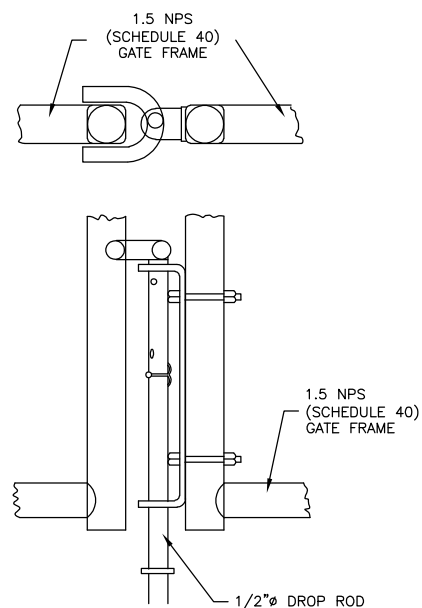
SINGLE OR DOUBLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
NOM HT INCLUDING BARBED WIRE	ACTUAL DIM	ACTUAL DIM
8'-0" [2438MM]	7'-10" [2388MM]	6'-8 1/2" [2045MM]

SINGLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQUARE & ROUND SIZES	POST TO UPRIGHT
3'-0" [914MM]	2.5" [63.5MM] SQ x 3/16" TH OR 2.875" [73MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
6'-0" [1829MM]	4" [102MM] SQ x 3/16" TH OR 4" [102MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
12'-0" [3657MM]	6" [153MM] SQ x 3/16" TH OR 6.625" [168MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
19'-0" [5790MM]	8" [203MM] SQ x 1/4" TH OR 8.625" [219MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]

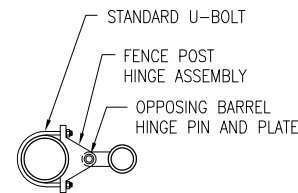
GATE POSTS & FOUNDATIONS: GATE POST SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURER, BASED ON LEAF WEIGHT & DIMENSION, BUT NOT LESS THAN DIAMETER SHOWN ON THESE DRAWINGS. MINIMUM FOOTING DIAMETERS (TO BE FILLED W/4000 PSI CONC): 40" φ FOR 8" POST; 36" φ FOR 6" POST; 24" φ FOR 4" POST; OTHER SIZES TO BE DESIGNED BY MFR OR KTR. NO FOOTING WIDTH SHALL BE LESS THAN 4(X) THE POST WIDTH.



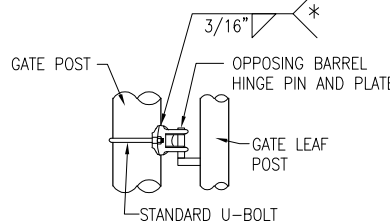
**DROP ROD FOUNDATION**  
NOT TO SCALE



**DROP ROD ASSEMBLY**  
NOT TO SCALE

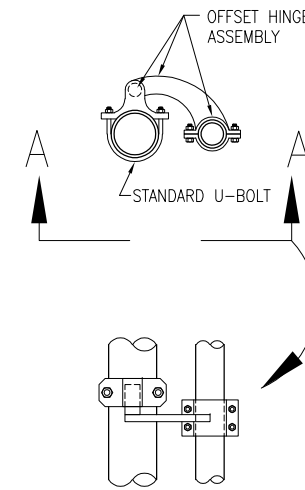


(\*NOTE: WELD HINGES TO POST IF INSTALLING CABLE REINFORCEMENT ON GATES. ENSURE CORRECT HEIGHT FOR FULL OPERATION PRIOR TO WELDING (TYPICAL))



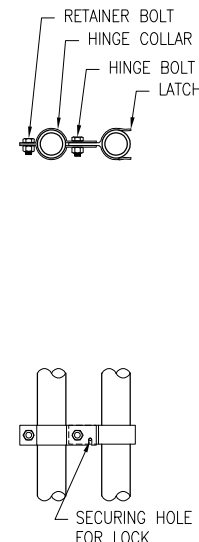
**GATE HINGE DETAIL**

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



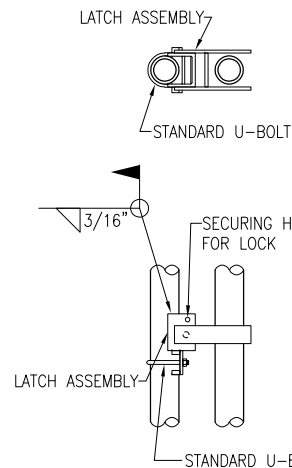
**OFFSET HINGE DETAIL**

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



**GATE LATCH DETAIL**

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



**FULCRUM LATCH DETAIL**

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

NOTE: IF GATE HINGES ARE NOT OPPOSING (AS SHOWN ABOVE) OR LEAF IS NOT LOCKED MECHANICALLY TO THE HINGES, WELD AN ANGLE, PLATE, OR BLOCK ABOVE HINGE TO RESTRICT LEAF FROM BEING REMOVED OR LIFTED OFF. RESTRICTION SHALL NOT HINDER OPERATION OF GATE.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



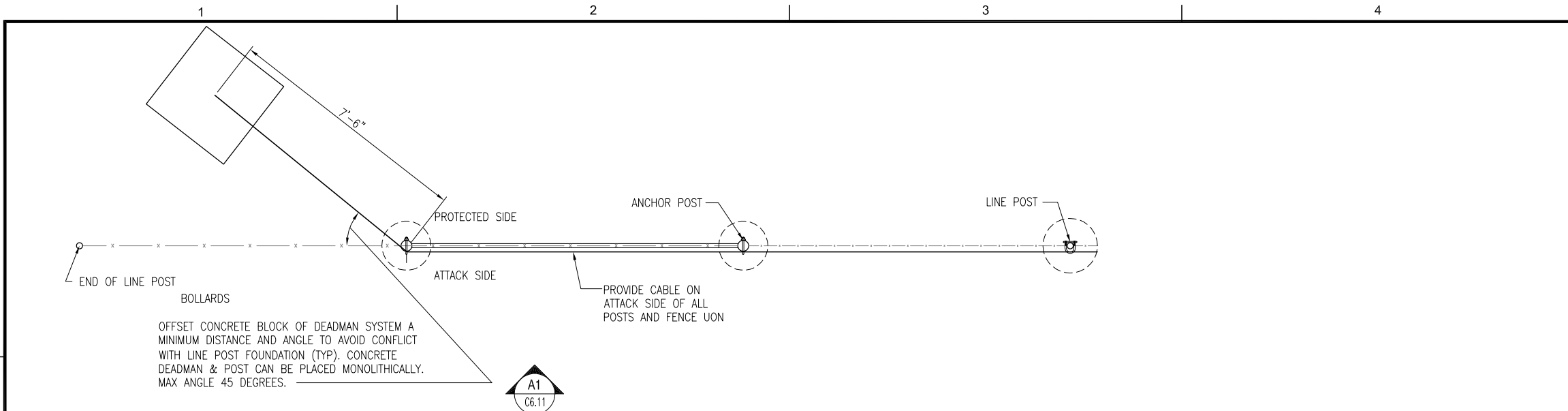
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
G.A.N.G. FENCING DETAILS (3)	C6.10



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\C6-11 - GANG UFC-710.dwg LAYOUT NAME: C6-11 - GANG UFC-710.dwg PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley

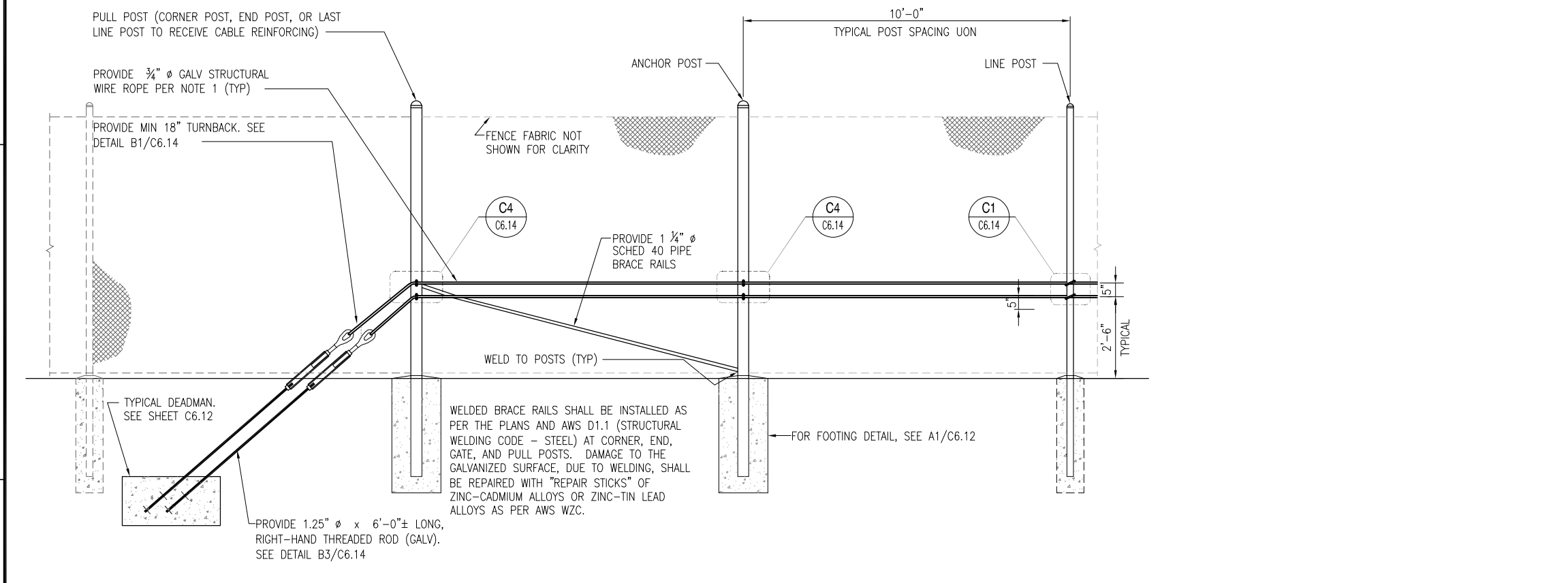


**TYPICAL PLAN OF END POST DEADMAN AND LINE POST LAYOUT**

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

C1  
CIVIL DWGS C6.11

NOTE: FOR NEW CONSTRUCTION, CABLE SHALL BE INSTALLED ON ATTACK SIDE OF POST, BETWEEN POST AND FABRIC.



**TYPICAL ELEVATION OF END POST DEADMAN AND LINE POST LAYOUT**

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

A1  
C6.11 C6.11

**REINFORCING NOTES**

1. REINFORCING CABLES SHALL BE U.S. DOMESTIC MINIMUM 3/4" Ø 6x19 CLASS WIRE ROPE, REGULAR LAY, EXTRA IMPROVED PLOW STEEL (EIP), INDEPENDENT WIRE ROPE CORE (IWRC), CONFORMING TO ASTM A1023 AND GALVANIZED IN ACCORDANCE WITH ASTM A475 CLASS A, & HAVE A MINIMUM BREAKING STRENGTH OF 40,000 POUNDS (20 TONS). CABLES WITH A BLACK VINYL COATING, SHALL NOT BE IMPREGNATED.
2. CABLES SHALL BE CONTINUOUS FROM DEADMAN TO DEADMAN. NO SPLICES IN CABLE SHALL BE ALLOWED. CABLE BARRIER SHALL BE INSTALLED BETWEEN FENCE POST AND FENCE FABRIC AS PER PLANS. U-BOLTS SHALL BE INSTALLED PERPENDICULAR TO THE LAY OF THE STRANDS OF THE WIRE ROPE AND SHALL BE TIGHTENED AFTER SAG IN CABLE BARRIER HAS BEEN REMOVED. UNLESS INDICATED OTHERWISE, CONCRETE DEADMAN SPACING SHALL BE AT MAXIMUM 200' INTERVALS & TURNING POINTS (EXTERNAL CORNERS).
3. WIRE ROPE ENDS SHALL TERMINATE AROUND TURNBUCKLES, GATE POSTS OR EXTRA HEAVY-DUTY WIRE ROPE THIMBLES (AT GATES). THESE TERMINATIONS REQUIRE 18" MINIMUM OF ROPE FOR TURN BACK AND A MINIMUM OF (4)- CLIPS EACH (EQUAL SPACING).
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
5. DEADMEN SHALL BE INSTALLED ON THE SECURED SIDE (INTERIOR) OF THE FENCE; WHILE CABLES SHALL BE INSTALLED ON THE EXTERIOR SIDE OF POST.
6. PROVIDE NECESSARY SLACK IN CABLES (GATES ONLY) TO ALLOW FOR FULL SWING OF ALL GATE LEAVES.
7. OFFSET DEADMAN SYSTEMS FROM FENCELINE (PLAN VIEW) TO AVOID CONFLICT WITH EXISTING FENCE POSTS.
8. ALLOW EPOXY ANCHOR BOLTS (MIN 2 DAYS) & CONCRETE DEADMEN (MIN 7 DAYS) TO CURE, PRIOR TO APPLYING LOADS (INSTALLING TURNBUCKLES & STRAIGHTENING CABLES).
9. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1. ALL WELD MATERIAL SHALL BE E70XX ELECTRODES.
10. STRUCTURAL STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NINTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION FOR ALLOWABLE STRESS DESIGN.
11. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS OF 36,000 PSI.
12. ALL STRUCTURAL STEEL MEMBERS AND HARDWARE USED IN CABLE ANCHORING SYSTEM SHALL BE HOT-DIPPED GALVANIZED. ANY AREAS WHERE COATING IS DAMAGED OR REMOVED SHALL BE COVERED WITH A ZINC RICH COMPOUND.
13. TURNBUCKLES SHALL BE 1 1/4"x18", TYPE I, GALVANIZED IN ACCORDANCE WITH ASTM F1145.
14. WIRE ROPE CLAMPS SHALL BE TYPE I, GALVANIZED, AND CONFORM TO FS FF-C-450.
15. ALL THREADED RODS, U-BOLTS, AND BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE INSTALLED WITH F844 WASHERS AND A563 NUTS. ENTIRE BOLT ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
16. ZINC RICH COMPOUND FOR REPAIRS SHALL BE 95% METALLIC ZINC, BY WEIGHT IN DRIED FILM; INSTALL AT LEAST TWO COATS, 4 MILS MIN TOTAL THICKNESS.
17. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. THE MINIMUM CONCRETE COVER SHALL BE 3", UNLESS OTHERWISE NOTED.
18. DESIGN CRITERIA:  
UFC 4-022-03 "SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES"  
UFC 4-022-02 "SELECTION AND APPLICATION OF VEHICLE BARRIERS"
19. AT CABLE REINFORCING GATES, PROVIDE TWIST-OFF METAL TIES TO SECURE CABLE TO GATE FABRIC @ 24" OC & U-BOLTS TO SECURE TO GATE UPRIGHTS. MODIFY AS NEEDED TO FACILITATE OPERATION OF GATE.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

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Tel: 813.286.1711

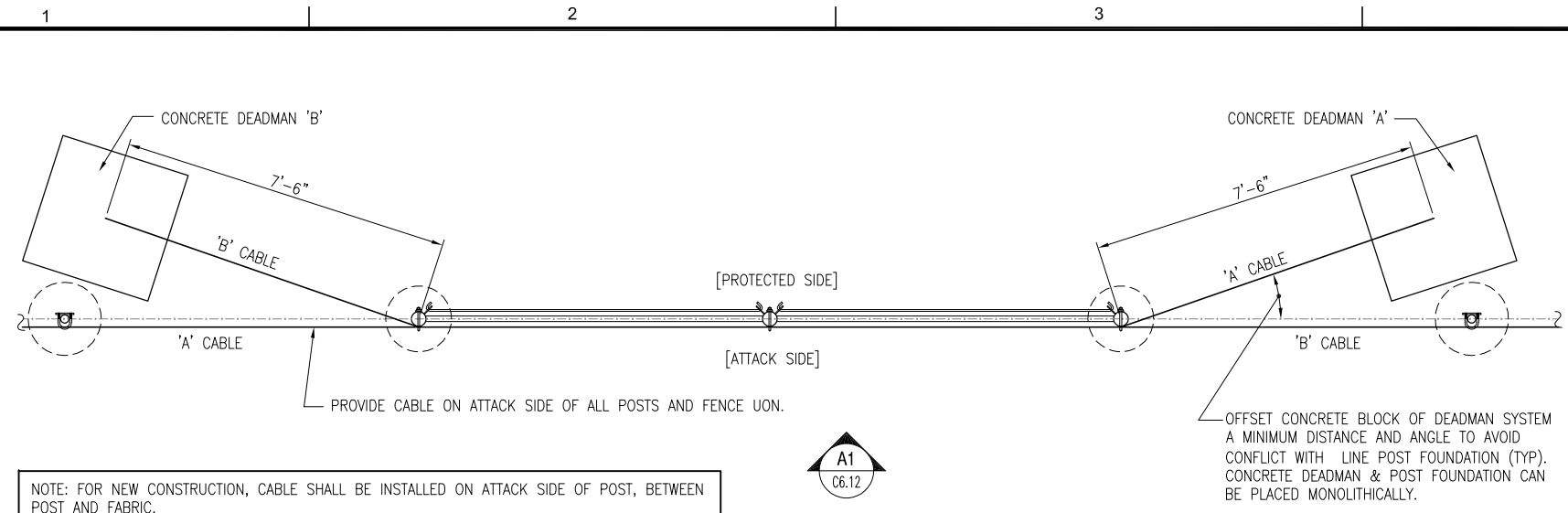
**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

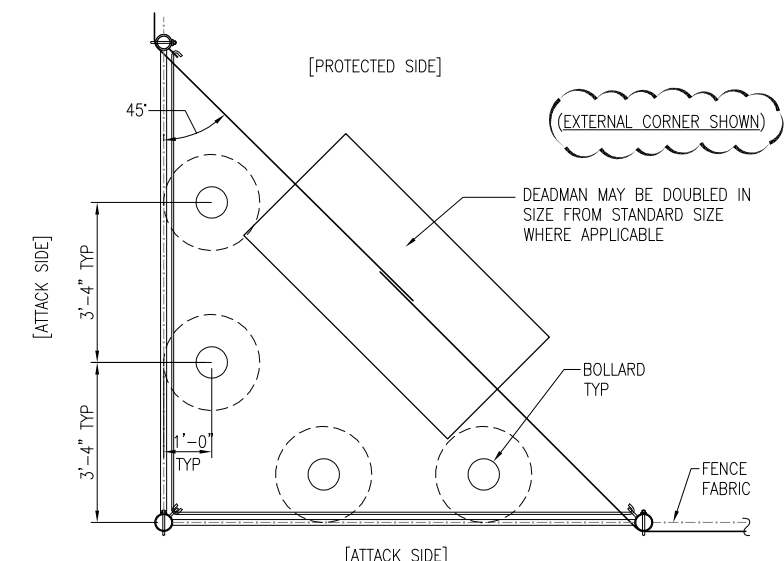
SHEET TITLE: **FENCING DETAILS G.A.N.G. UFC (4)** SHEET NO.: **C6.11**





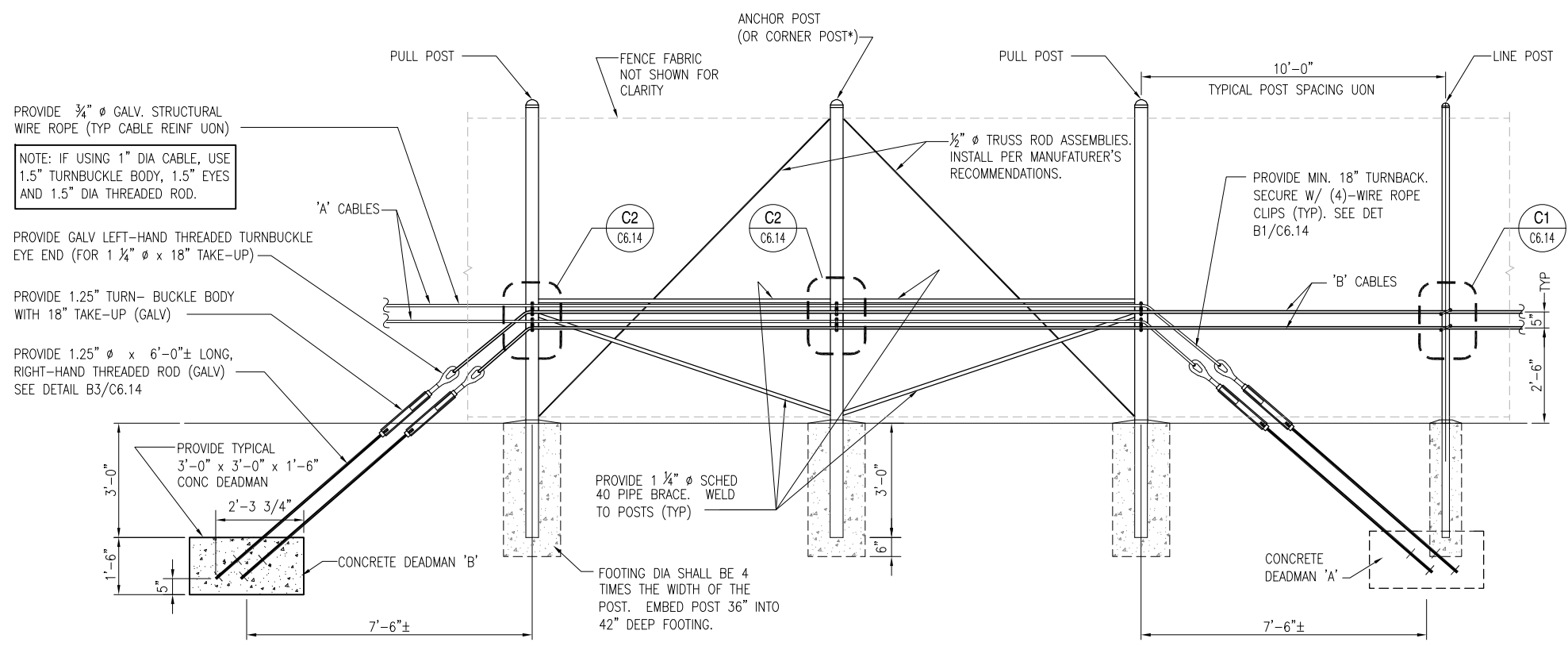
**TYPICAL PLAN OF DEADMAN AND LINE POST LAYOUT**

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



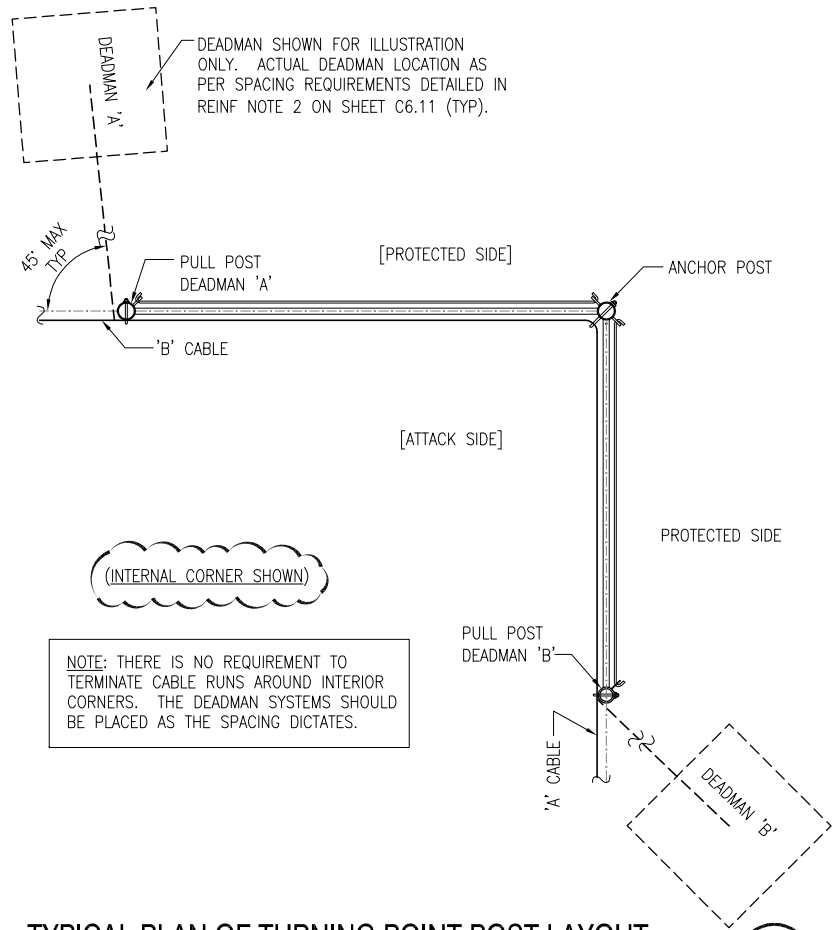
**TYPICAL PLAN OF TURNING POINT POST LAYOUT**

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



**TYPICAL ELEVATION OF DEADMAN AND LINE POST LAYOUT**

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



**TYPICAL PLAN OF TURNING POINT POST LAYOUT**

NOT TO SCALE

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
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DATE:	MARCH, 2021

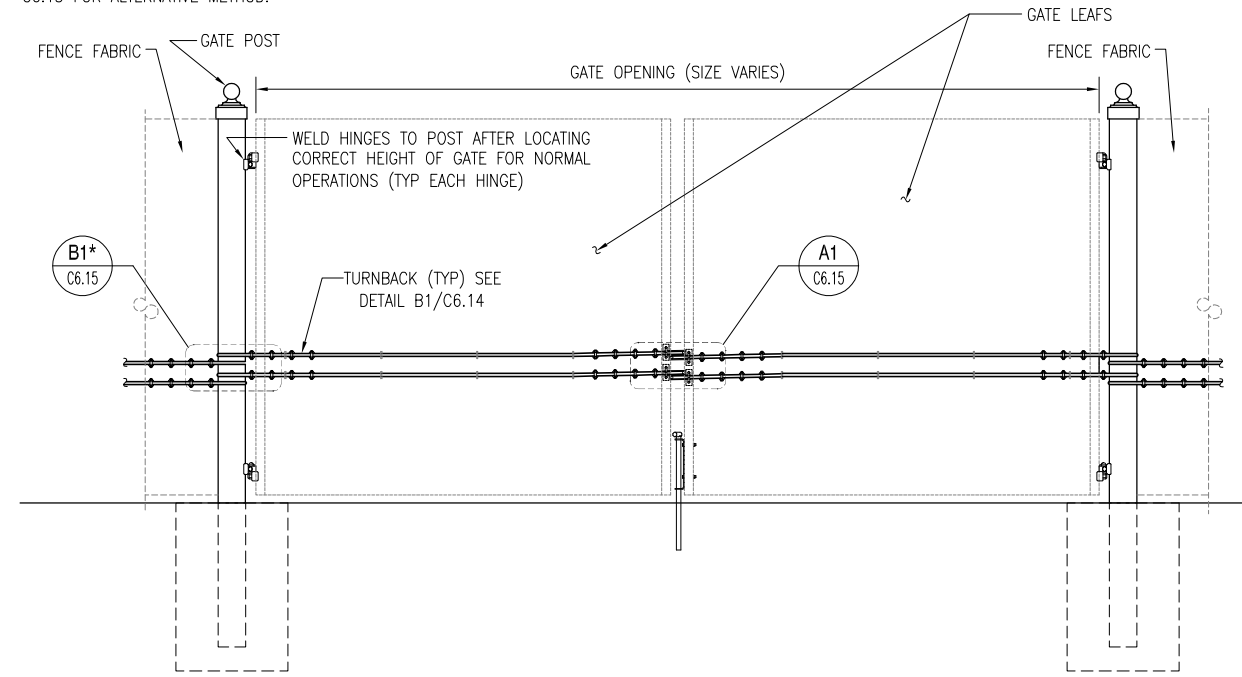
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>FENCING DETAILS G.A.N.G. UFC (5)</b>	SHEET NO. <b>C6.12</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\C6-12 - GANG UFC-711.dwg LAYOUT NAME: C6-12 - GANG UFC-711.dwg PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\900-Work\910 CAD\20-SHEETS\C6-13 - GANG UFC-712.dwg LAYOUT NAME: C6-13 PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley

\*NOTE: SEE DETAIL D1 ON SHEET C6.15 FOR ALTERNATIVE METHOD.



ELEVATION - TYP CABLE REINFORCING DOUBLE FOR SWING GATE

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

A1  
CIVL DWGS C6.13

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



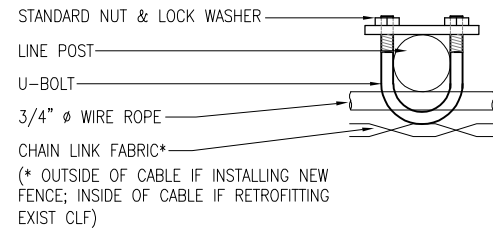
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>FENCING DETAILS G.A.N.G. UFC (6)</b>	<b>C6.13</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



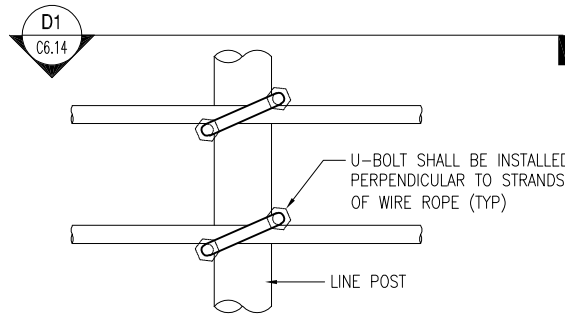
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**PLAN**

SCALE: 3" = 1'-0"

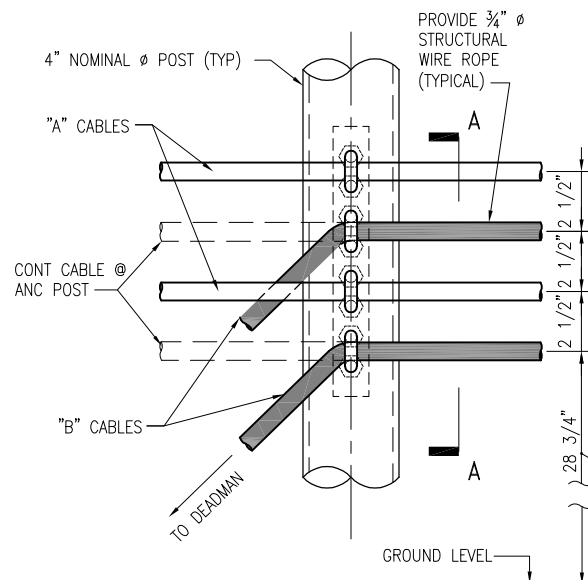
D1  
C6.14 C6.14



**LINE POST DETAIL (CLF ONLY)**

SCALE: 3" = 1'-0"

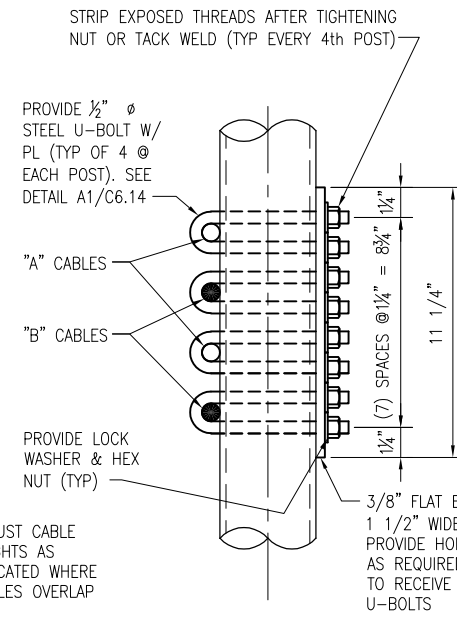
C1  
C6.12, C6.11 C6.14



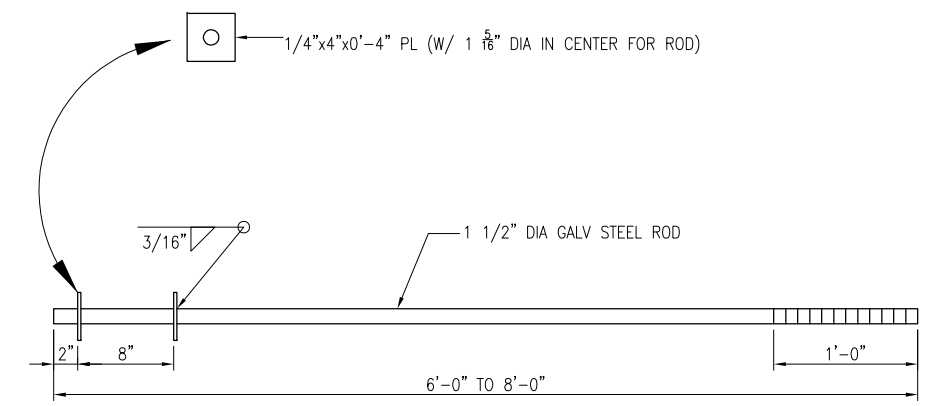
**CABLE ANCHORAGE DETAIL @ PULL & ANCHOR POST W/ OVERLAPPING CABLES**

SCALE: 3" = 1'-0"

C2  
C6.11 C6.14



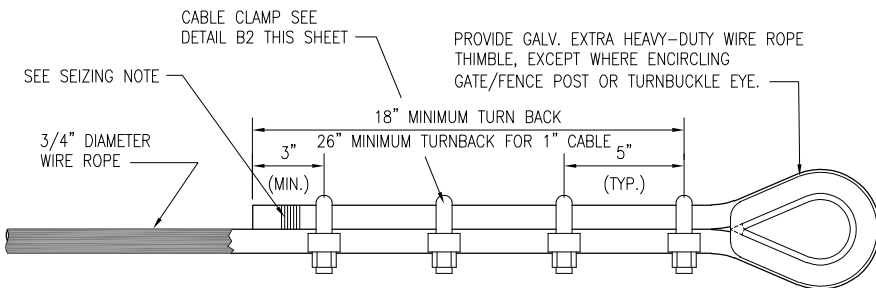
**SECTION A - A**



**DEADMAN ANCHOR ROD**

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

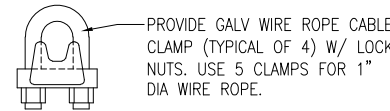
B3  
C6.11, C6.12 C6.14



**TYPICAL TURNBACK AND CLAMP DETAIL**

SCALE: 3" = 1'-0"

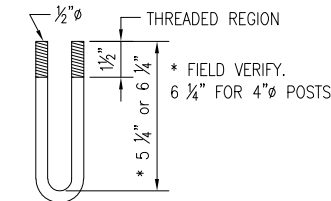
B1  
C6.11, C6.12, C6.13, C6.14



**CLAMP DETAIL**

NOT TO SCALE

B2  
C6.14 C6.14



**FENCE U-BOLT DETAIL**

SCALE: 3" = 1'-0"

A1  
C6.14 C6.14

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

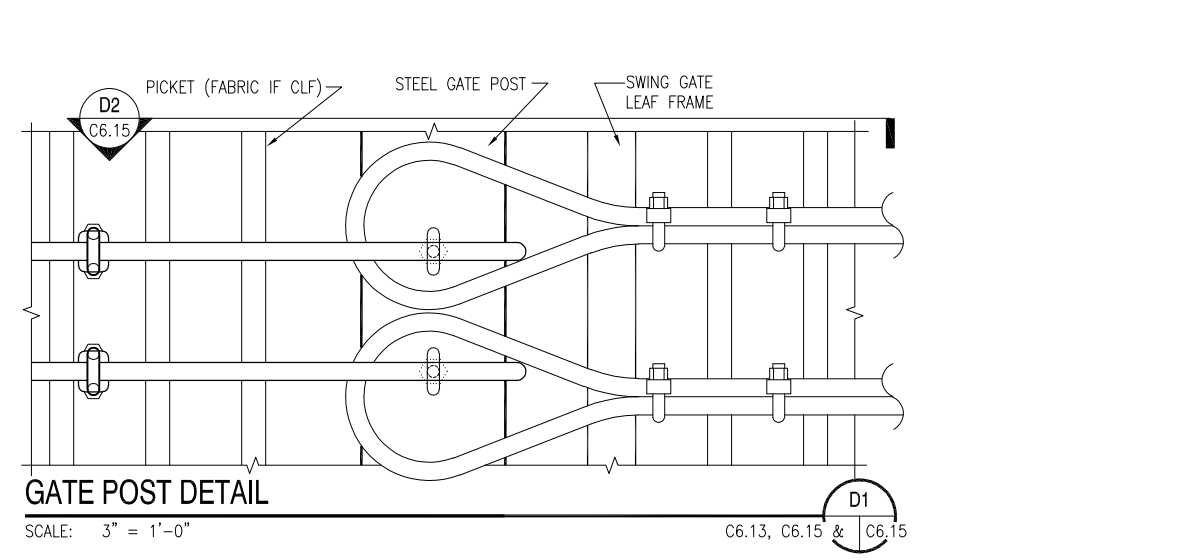
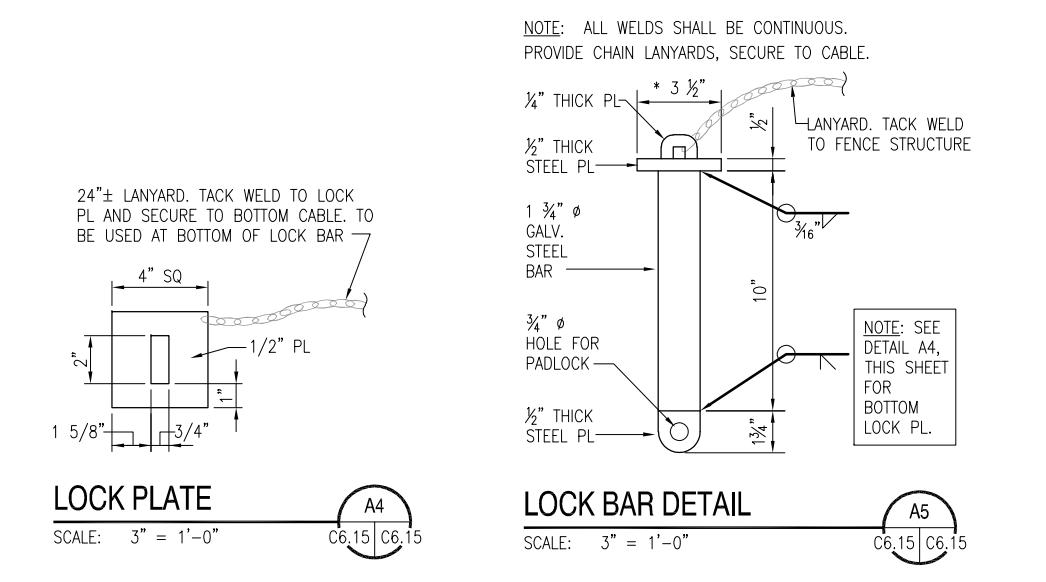
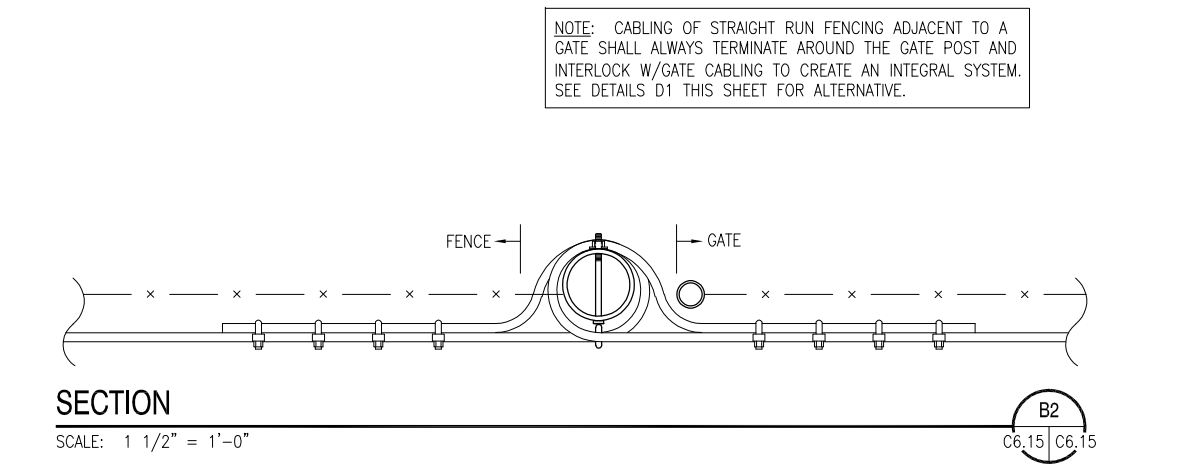
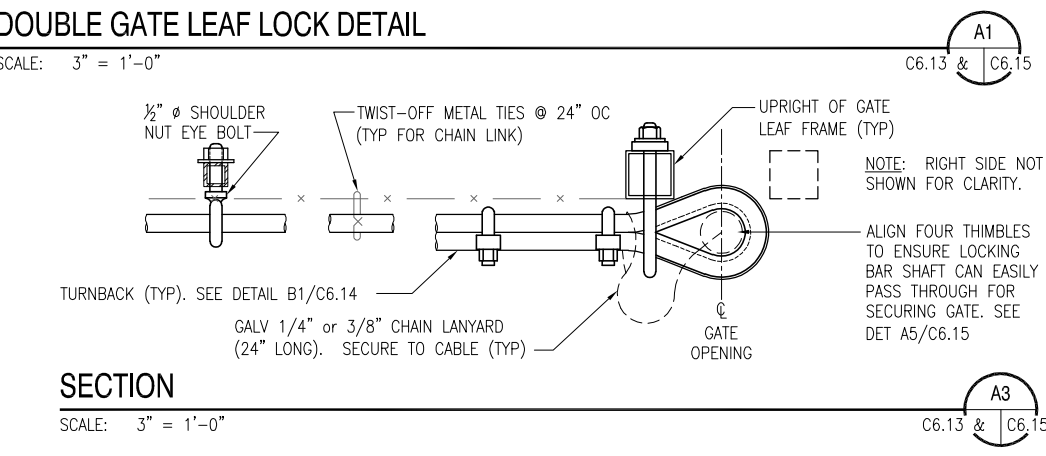
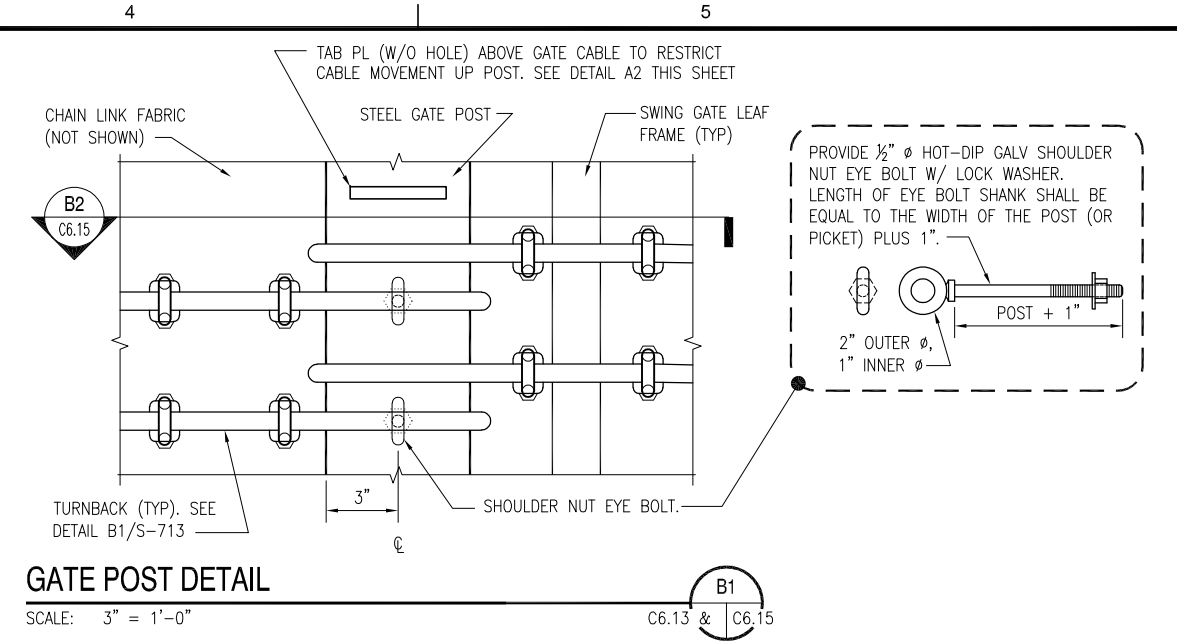
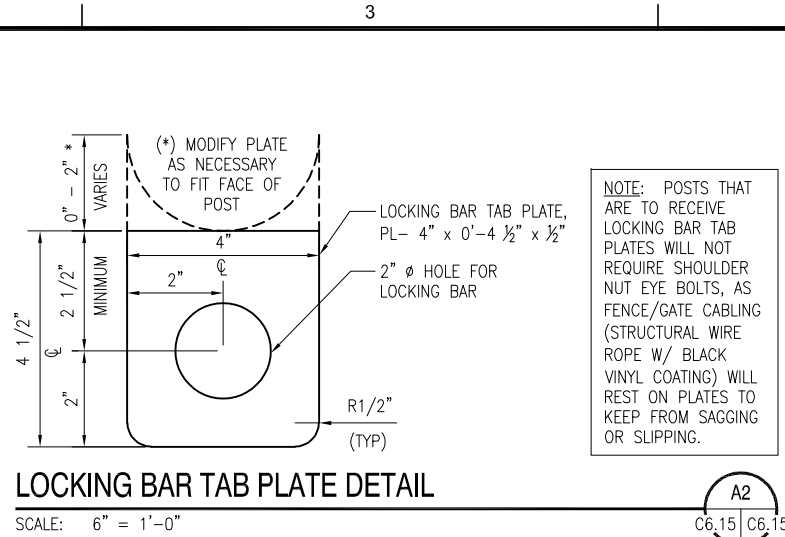
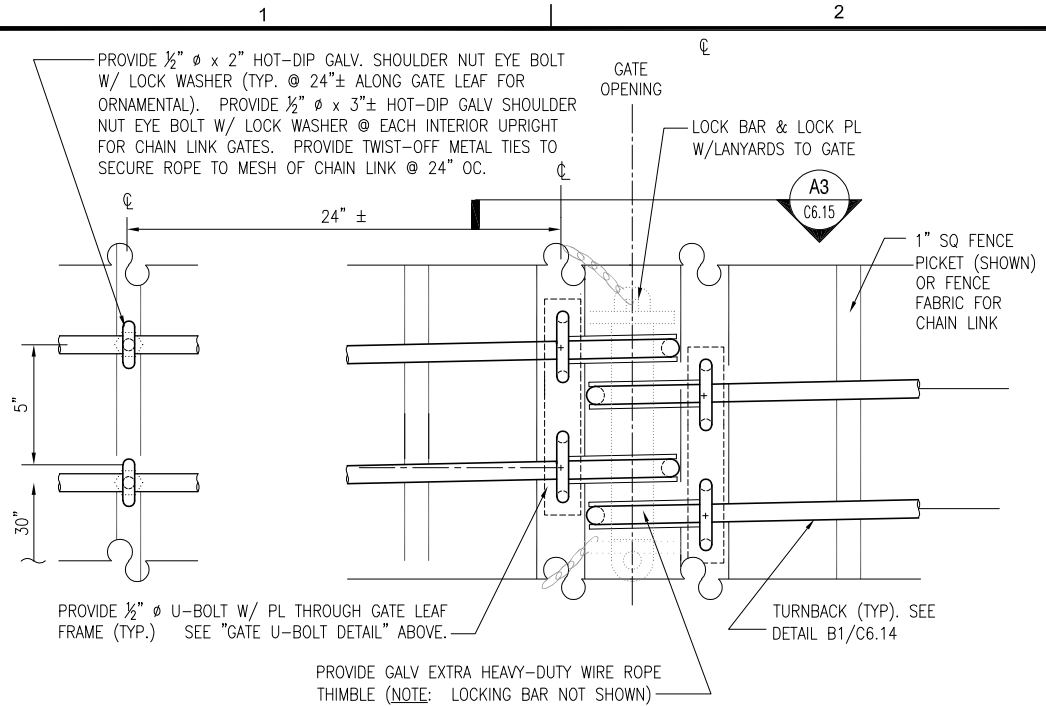


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>FENCING DETAILS G.A.N.G. UFC (7)</b>	<b>C6.14</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\900-Work\910 CAD\20-SHEETS\C6-15 - GANG UFC-714.dwg LAYOUT NAME: C6-15 PLOTTED: Thursday, February 25, 2021 - 2:12pm USER: Norma.Pressley



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

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**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

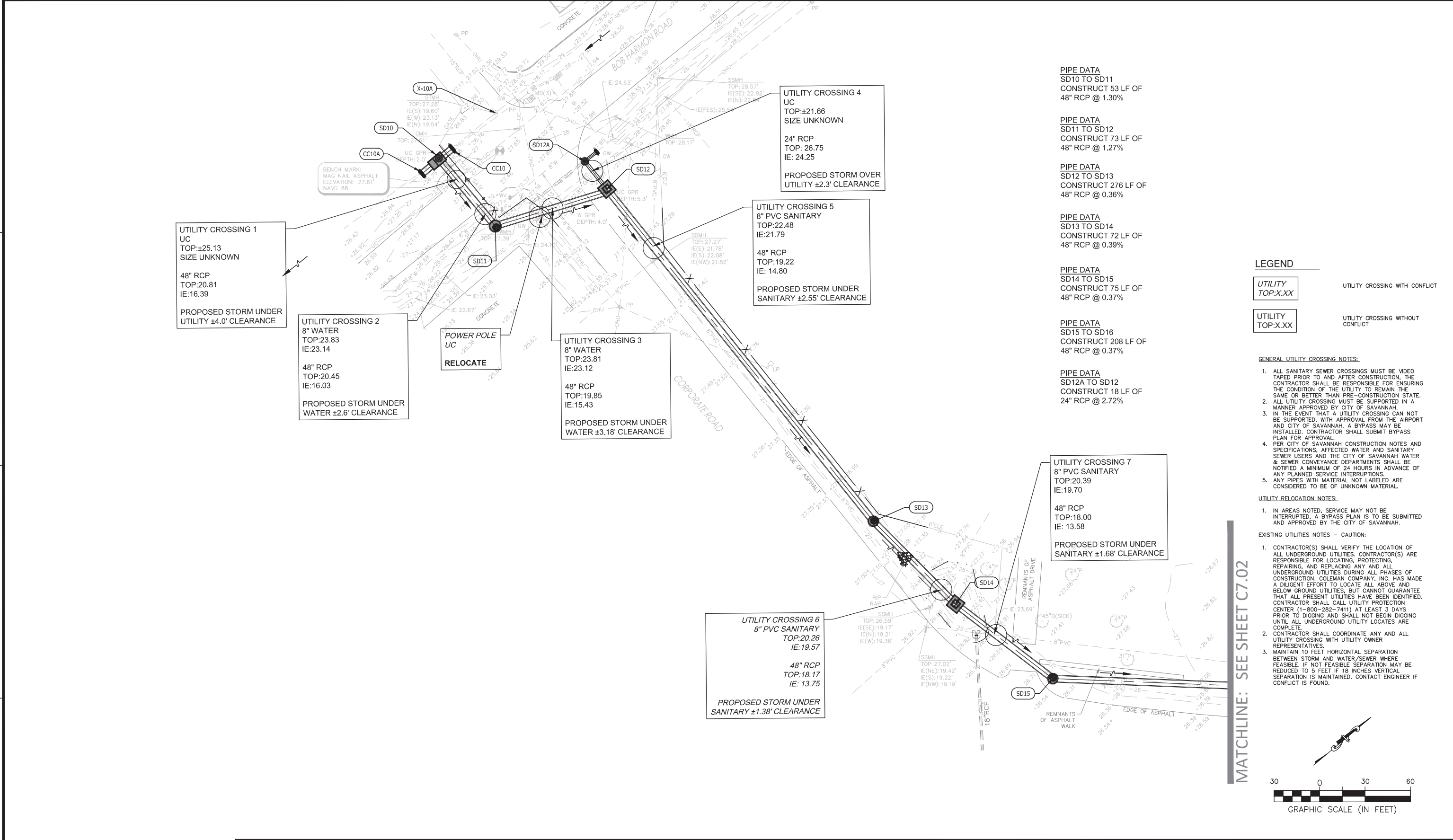
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **FENCING DETAILS G.A.N.G. UFC (8)**

SHEET NO.: **C6.15**



FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 01 PLOTTED: Monday, March 01, 2021 - 9:35am USER: jrobison



**UTILITY CROSSING 1**  
UC  
TOP:±25.13  
SIZE UNKNOWN  
48" RCP  
TOP:20.81  
IE:16.39  
PROPOSED STORM UNDER  
UTILITY ±4.0' CLEARANCE

**UTILITY CROSSING 2**  
8" WATER  
TOP:23.83  
IE:23.14  
48" RCP  
TOP:20.45  
IE:16.03  
PROPOSED STORM UNDER  
WATER ±2.6' CLEARANCE

**POWER POLE**  
UC  
RELOCATE

**UTILITY CROSSING 3**  
8" WATER  
TOP:23.81  
IE:23.12  
48" RCP  
TOP:19.85  
IE:15.43  
PROPOSED STORM UNDER  
WATER ±3.18' CLEARANCE

**UTILITY CROSSING 5**  
8" PVC SANITARY  
TOP:22.48  
IE:21.79  
48" RCP  
TOP:19.22  
IE: 14.80  
PROPOSED STORM UNDER  
SANITARY ±2.55' CLEARANCE

**UTILITY CROSSING 4**  
UC  
TOP:±21.66  
SIZE UNKNOWN  
24" RCP  
TOP: 26.75  
IE: 24.25  
PROPOSED STORM OVER  
UTILITY ±2.3' CLEARANCE

**UTILITY CROSSING 6**  
8" PVC SANITARY  
TOP:20.26  
IE:19.57  
48" RCP  
TOP:18.17  
IE: 13.75  
PROPOSED STORM UNDER  
SANITARY ±1.38' CLEARANCE

**UTILITY CROSSING 7**  
8" PVC SANITARY  
TOP:20.39  
IE:19.70  
48" RCP  
TOP:18.00  
IE: 13.58  
PROPOSED STORM UNDER  
SANITARY ±1.68' CLEARANCE

**PIPE DATA**  
SD10 TO SD11  
CONSTRUCT 53 LF OF  
48" RCP @ 1.30%

**PIPE DATA**  
SD11 TO SD12  
CONSTRUCT 73 LF OF  
48" RCP @ 1.27%

**PIPE DATA**  
SD12 TO SD13  
CONSTRUCT 276 LF OF  
48" RCP @ 0.36%

**PIPE DATA**  
SD13 TO SD14  
CONSTRUCT 72 LF OF  
48" RCP @ 0.39%

**PIPE DATA**  
SD14 TO SD15  
CONSTRUCT 75 LF OF  
48" RCP @ 0.37%

**PIPE DATA**  
SD15 TO SD16  
CONSTRUCT 208 LF OF  
48" RCP @ 0.37%

**PIPE DATA**  
SD12A TO SD12  
CONSTRUCT 18 LF OF  
24" RCP @ 2.72%

**LEGEND**

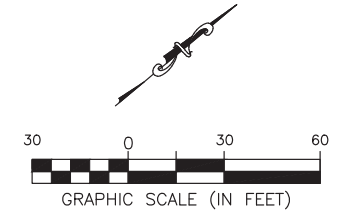
- UTILITY  
TOP:X.XX UTILITY CROSSING WITH CONFLICT
- UTILITY  
TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

- GENERAL UTILITY CROSSING NOTES:**
- ALL SANITARY SEWER CROSSINGS MUST BE VIDEO TAPED PRIOR TO AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONDITION OF THE UTILITY TO REMAIN THE SAME OR BETTER THAN PRE-CONSTRUCTION STATE.
  - ALL UTILITY CROSSING MUST BE SUPPORTED IN A MANNER APPROVED BY CITY OF SAVANNAH.
  - IN THE EVENT THAT A UTILITY CROSSING CAN NOT BE SUPPORTED, WITH APPROVAL FROM THE AIRPORT AND CITY OF SAVANNAH, A BYPASS MAY BE INSTALLED. CONTRACTOR SHALL SUBMIT BYPASS PLAN FOR APPROVAL.
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MATCHLINE: SEE SHEET C7.02



**CAUTION**  
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MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
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1480 Chatham Parkway, Suite 100  
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**SAVANNAH HILTON HEAD INTERNATIONAL**  
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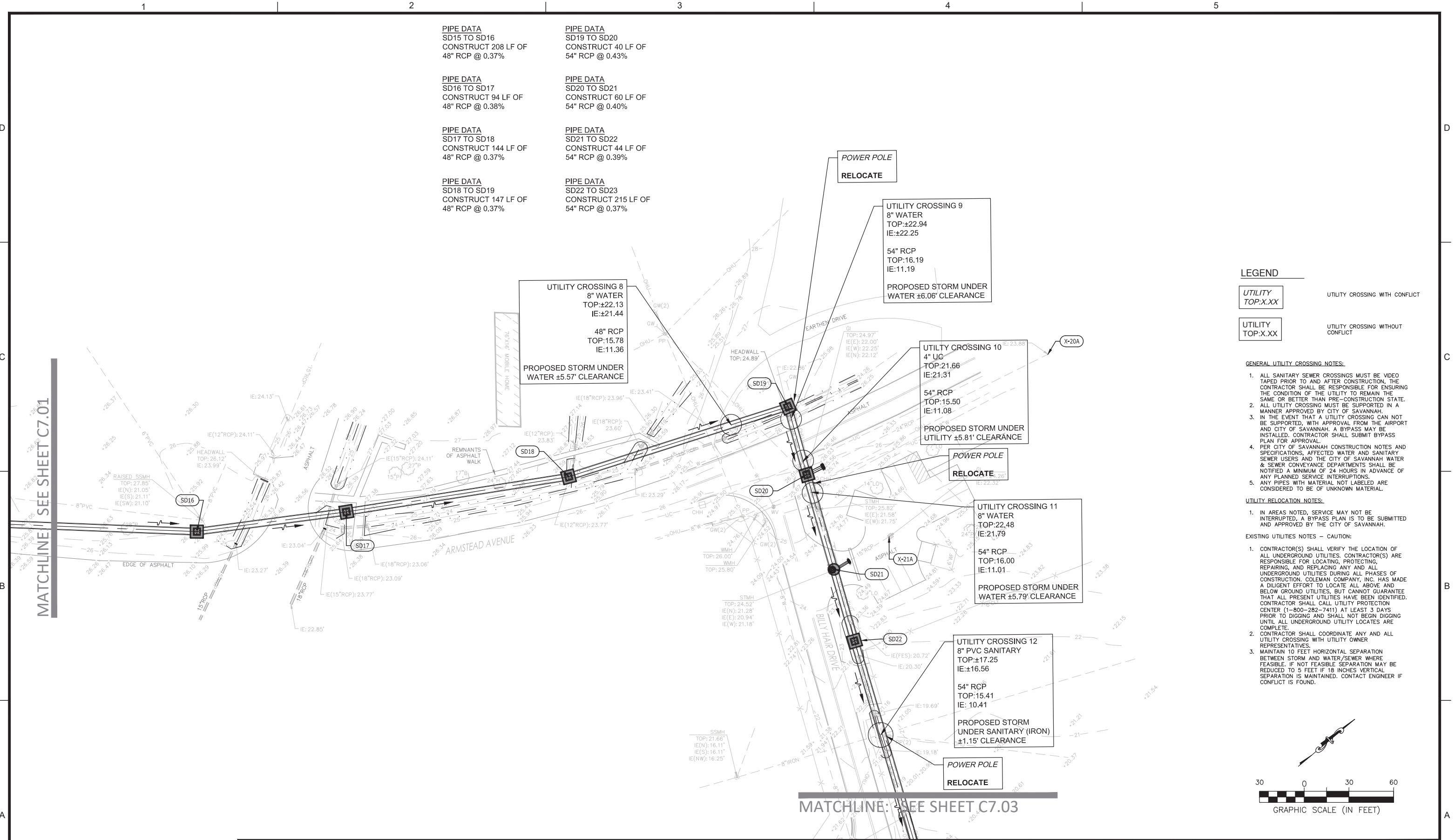
PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.01**

FILE NAME: \\huk\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 02 PLOTTED: Monday, March 01, 2021 - 9:37am USER: jobnison



PIPE DATA  
SD15 TO SD16  
CONSTRUCT 208 LF OF  
48" RCP @ 0.37%

PIPE DATA  
SD16 TO SD17  
CONSTRUCT 94 LF OF  
48" RCP @ 0.38%

PIPE DATA  
SD17 TO SD18  
CONSTRUCT 144 LF OF  
48" RCP @ 0.37%

PIPE DATA  
SD18 TO SD19  
CONSTRUCT 147 LF OF  
48" RCP @ 0.37%

PIPE DATA  
SD19 TO SD20  
CONSTRUCT 40 LF OF  
54" RCP @ 0.43%

PIPE DATA  
SD20 TO SD21  
CONSTRUCT 60 LF OF  
54" RCP @ 0.40%

PIPE DATA  
SD21 TO SD22  
CONSTRUCT 44 LF OF  
54" RCP @ 0.39%

PIPE DATA  
SD22 TO SD23  
CONSTRUCT 215 LF OF  
54" RCP @ 0.37%

**LEGEND**

UTILITY TOP:X.XX UTILITY CROSSING WITH CONFLICT

UTILITY TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

**GENERAL UTILITY CROSSING NOTES:**

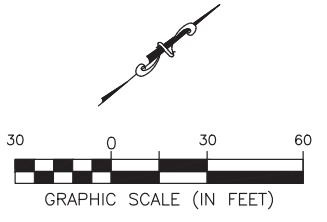
- ALL SANITARY SEWER CROSSINGS MUST BE VIDEO TAPED PRIOR TO AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONDITION OF THE UTILITY TO REMAIN THE SAME OR BETTER THAN PRE-CONSTRUCTION STATE.
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MATCHLINE: SEE SHEET C7.01

MATCHLINE: SEE SHEET C7.03

**CAUTION**  
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PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.02**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\Huik\2019\19-236.000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 03 PLOTTED: Monday, March 01, 2021 - 9:39am USER: jrbjnsen

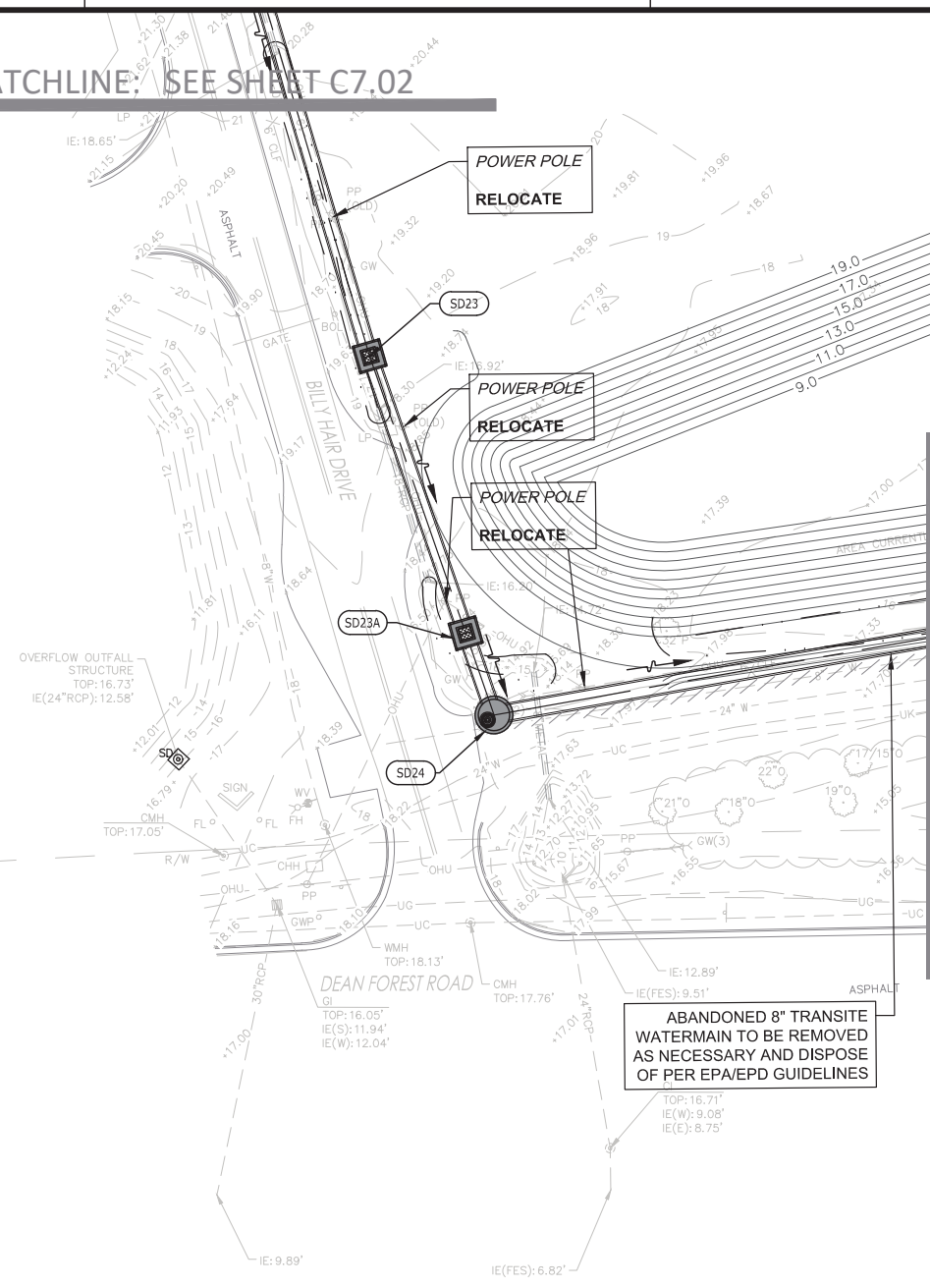
MATCHLINE: SEE SHEET C7.02

PIPE DATA  
SD22 TO SD23  
CONSTRUCT 215 LF OF  
54" RCP @ 0.37%

PIPE DATA  
SD23 TO SD23A  
CONSTRUCT 86 LF OF  
54" RCP @ 0.40%

PIPE DATA  
SD23A TO SD24  
CONSTRUCT 20 LF OF  
54" RCP @ 0.55%

PIPE DATA  
SD24 TO SD25  
CONSTRUCT 324 LF OF  
60" RCP @ 0.36%



MATCHLINE: SEE SHEET C7.04

**LEGEND**

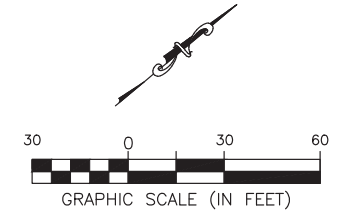
UTILITY TOP:X.XX	UTILITY CROSSING WITH CONFLICT
UTILITY TOP:X.XX	UTILITY CROSSING WITHOUT CONFLICT

- GENERAL UTILITY CROSSING NOTES:**
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ABANDONED 8" TRANSITE WATERMAIN TO BE REMOVED AS NECESSARY AND DISPOSE OF PER EPA/EPD GUIDELINES



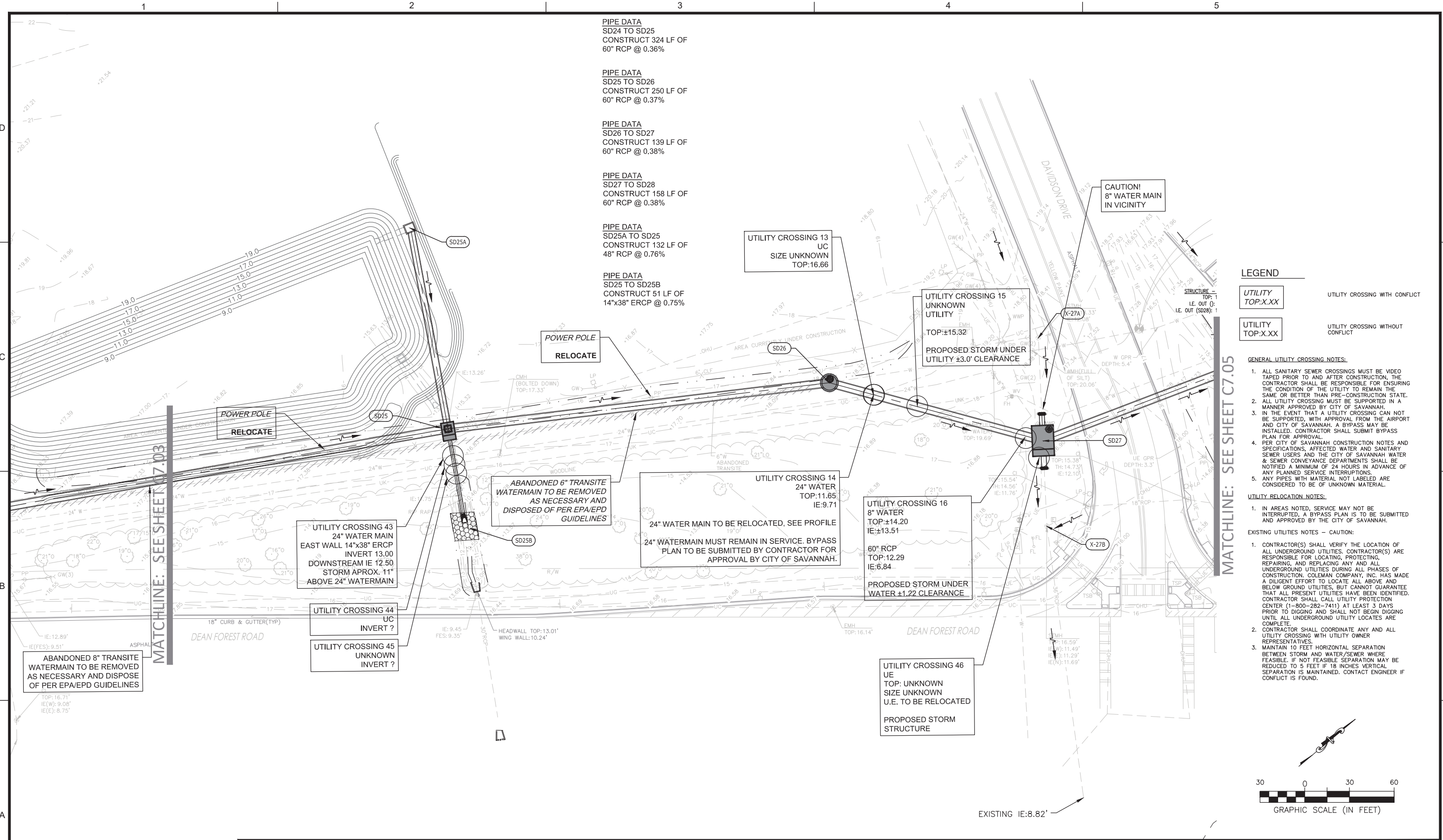
DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>		SHEET NO. <b>C7.03</b>
<b>EXISTING UTILITIES &amp; RELOCATION PLAN</b>		

FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 04 PLOTTED: Monday, March 01, 2021 - 9:40am USER: jrobison



PIPE DATA  
SD24 TO SD25  
CONSTRUCT 324 LF OF  
60" RCP @ 0.36%

PIPE DATA  
SD25 TO SD26  
CONSTRUCT 250 LF OF  
60" RCP @ 0.37%

PIPE DATA  
SD26 TO SD27  
CONSTRUCT 139 LF OF  
60" RCP @ 0.38%

PIPE DATA  
SD27 TO SD28  
CONSTRUCT 158 LF OF  
60" RCP @ 0.38%

PIPE DATA  
SD25A TO SD25  
CONSTRUCT 132 LF OF  
48" RCP @ 0.76%

PIPE DATA  
SD25 TO SD25B  
CONSTRUCT 51 LF OF  
14"x38" ERCP @ 0.75%

**LEGEND**

UTILITY TOP:X.XX UTILITY CROSSING WITH CONFLICT

UTILITY TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

**GENERAL UTILITY CROSSING NOTES:**

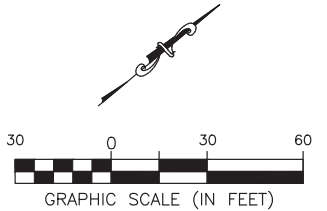
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SCALE:	AS NOTED
PROJECT NO.	60611019
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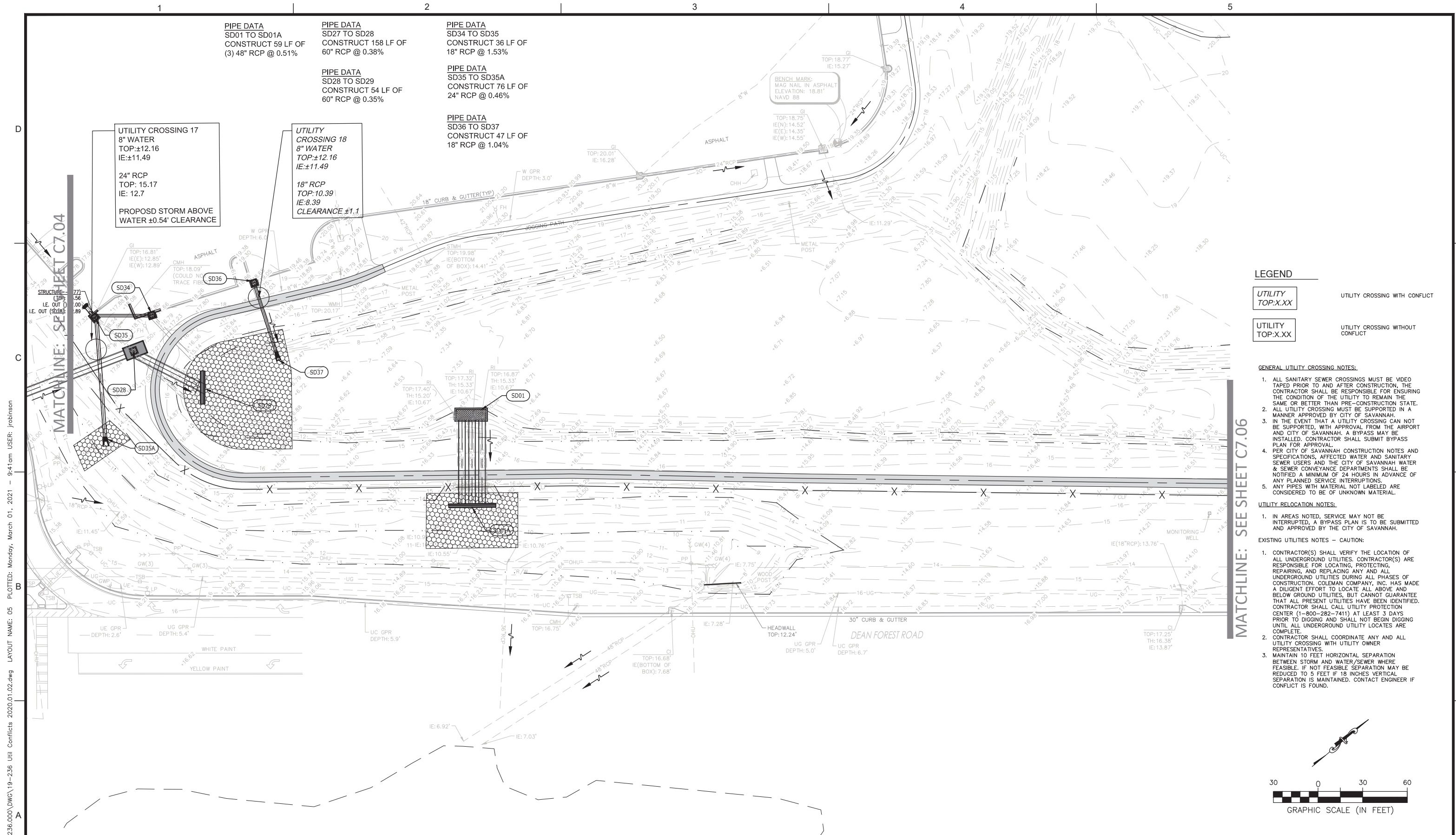
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.04**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"





PIPE DATA  
SD01 TO SD01A  
CONSTRUCT 59 LF OF  
(3) 48" RCP @ 0.51%

PIPE DATA  
SD27 TO SD28  
CONSTRUCT 158 LF OF  
60" RCP @ 0.38%

PIPE DATA  
SD28 TO SD29  
CONSTRUCT 54 LF OF  
60" RCP @ 0.35%

PIPE DATA  
SD34 TO SD35  
CONSTRUCT 36 LF OF  
18" RCP @ 1.53%

PIPE DATA  
SD35 TO SD35A  
CONSTRUCT 76 LF OF  
24" RCP @ 0.46%

PIPE DATA  
SD36 TO SD37  
CONSTRUCT 47 LF OF  
18" RCP @ 1.04%

UTILITY CROSSING 17  
8" WATER  
TOP: ±12.16  
IE: ±11.49  
24" RCP  
TOP: 15.17  
IE: 12.7  
PROPOSED STORM ABOVE  
WATER ±0.54' CLEARANCE

UTILITY CROSSING 18  
8" WATER  
TOP: ±12.16  
IE: ±11.49  
18" RCP  
TOP: 10.39  
IE: 8.39  
CLEARANCE ±1.1

**LEGEND**

UTILITY  
TOP: X.XX      UTILITY CROSSING WITH CONFLICT

UTILITY  
TOP: X.XX      UTILITY CROSSING WITHOUT CONFLICT

**GENERAL UTILITY CROSSING NOTES:**

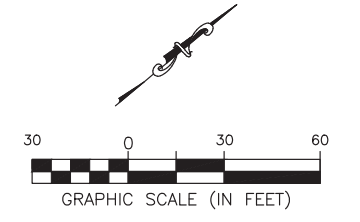
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FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 05 PLOTTED: Monday, March 01, 2021 - 9:41am USER: jrobison

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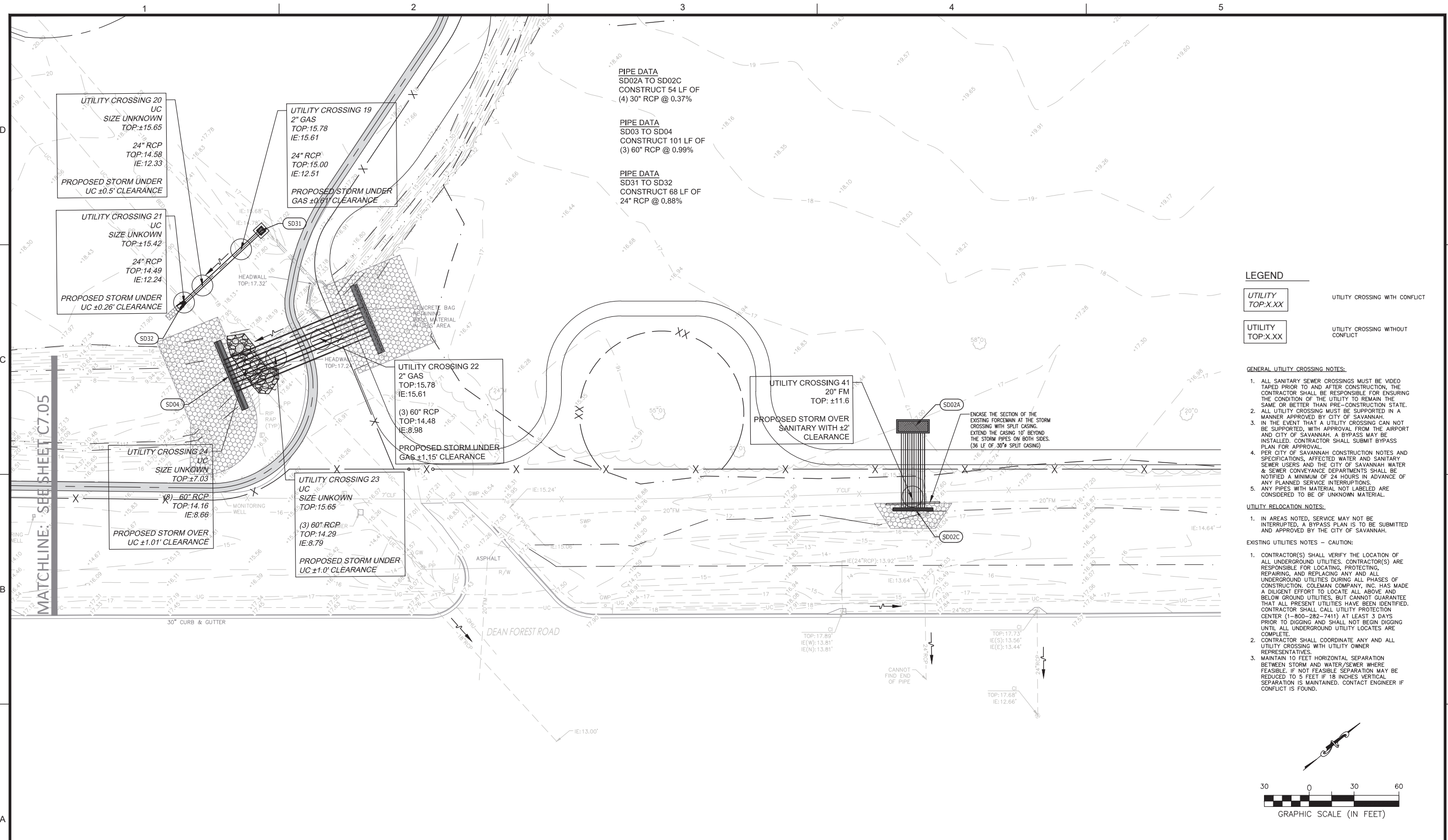
PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.05**

FILE NAME: \\huik\2019\19-236\DWG\19-236 UJI Conflicts 2020.01.02.dwg LAYOUT NAME: 06 PLOTTED: Monday, March 15, 2021 - 10:19am USER: jrobinson



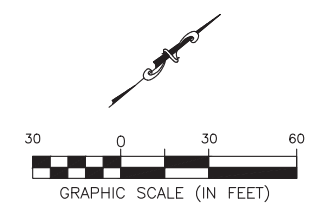
**LEGEND**

UTILITY TOP:X.XX UTILITY CROSSING WITH CONFLICT

UTILITY TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

- GENERAL UTILITY CROSSING NOTES:**
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  - MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN STORM AND WATER/SEWER WHERE FEASIBLE. IF NOT FEASIBLE SEPARATION MAY BE REDUCED TO 5 FEET IF 18 INCHES VERTICAL SEPARATION IS MAINTAINED. CONTACT ENGINEER IF CONFLICT IS FOUND.



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1480 Chatham Parkway, Suite 100  
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Savannah / Hilton Head International Airport  
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Savannah, Georgia 31408

PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.:	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

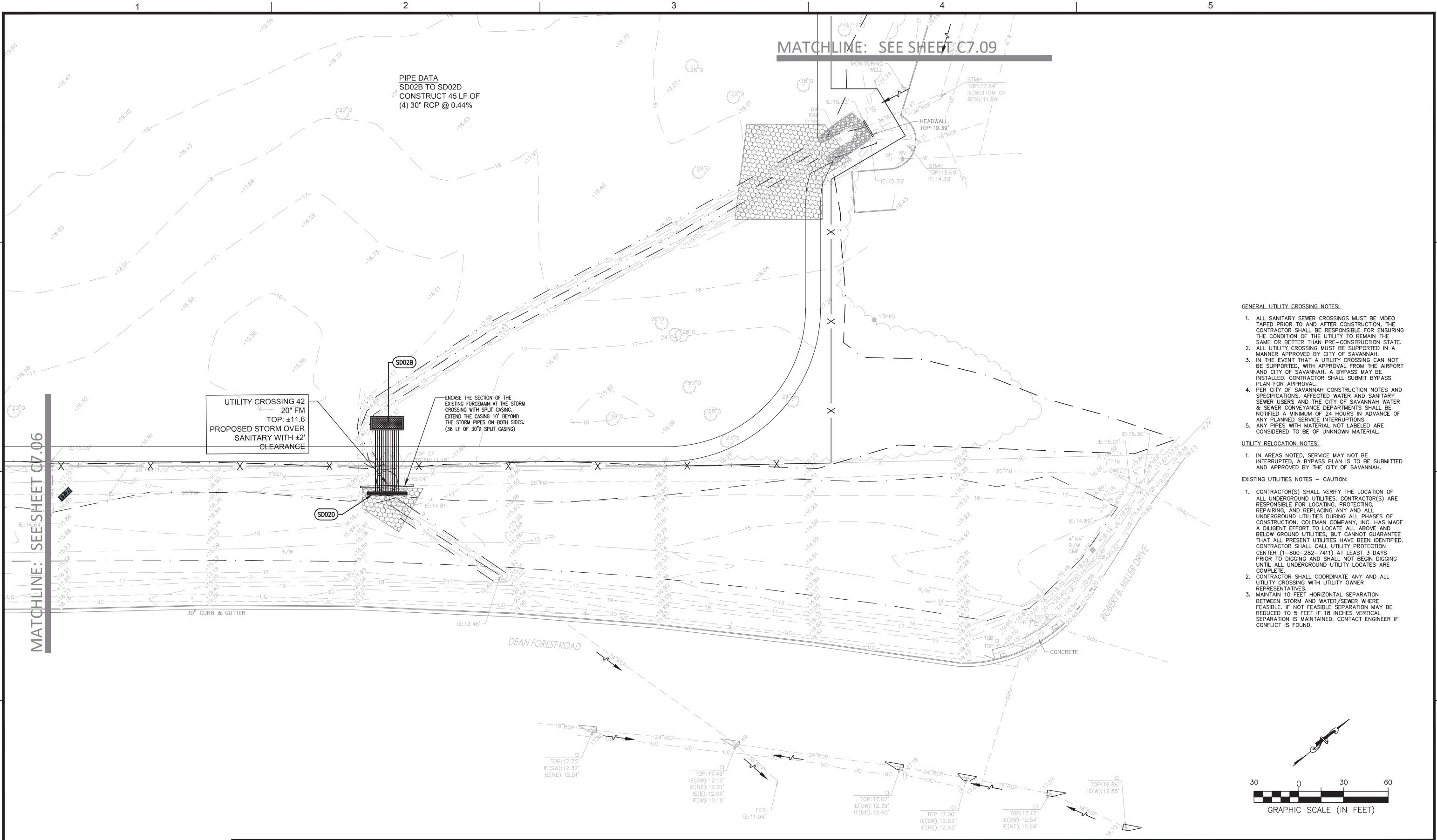
EXISTING UTILITIES & RELOCATION PLAN

SHEET NO. **C7.06**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 07 PLOTTED: Monday, March 15, 2021 - 10:20am USER: jrobinson



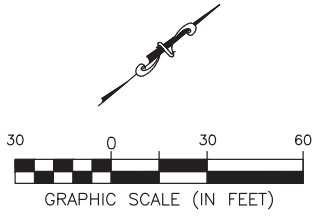
MATCHLINE: SEE SHEET C7.09

PIPE DATA  
SD02B TO SD02D  
CONSTRUCT 45 LF OF  
(4) 30" RCP @ 0.44%

UTILITY CROSSING 42  
20" FM  
TOP: ±11.6  
PROPOSED STORM OVER  
SANITARY WITH ±2'  
CLEARANCE

ENCASE THE SECTION OF THE  
EXISTING FORCEMAIN AT THE STORM  
CROSSING WITH SPLIT CASING.  
EXTEND THE CASING 10' BEYOND  
THE STORM PIPES ON BOTH SIDES.  
(36 LF OF 30" SPLIT CASING)

- GENERAL UTILITY CROSSING NOTES:**
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  2. ALL UTILITY CROSSING MUST BE SUPPORTED IN A MANNER APPROVED BY CITY OF SAVANNAH.
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

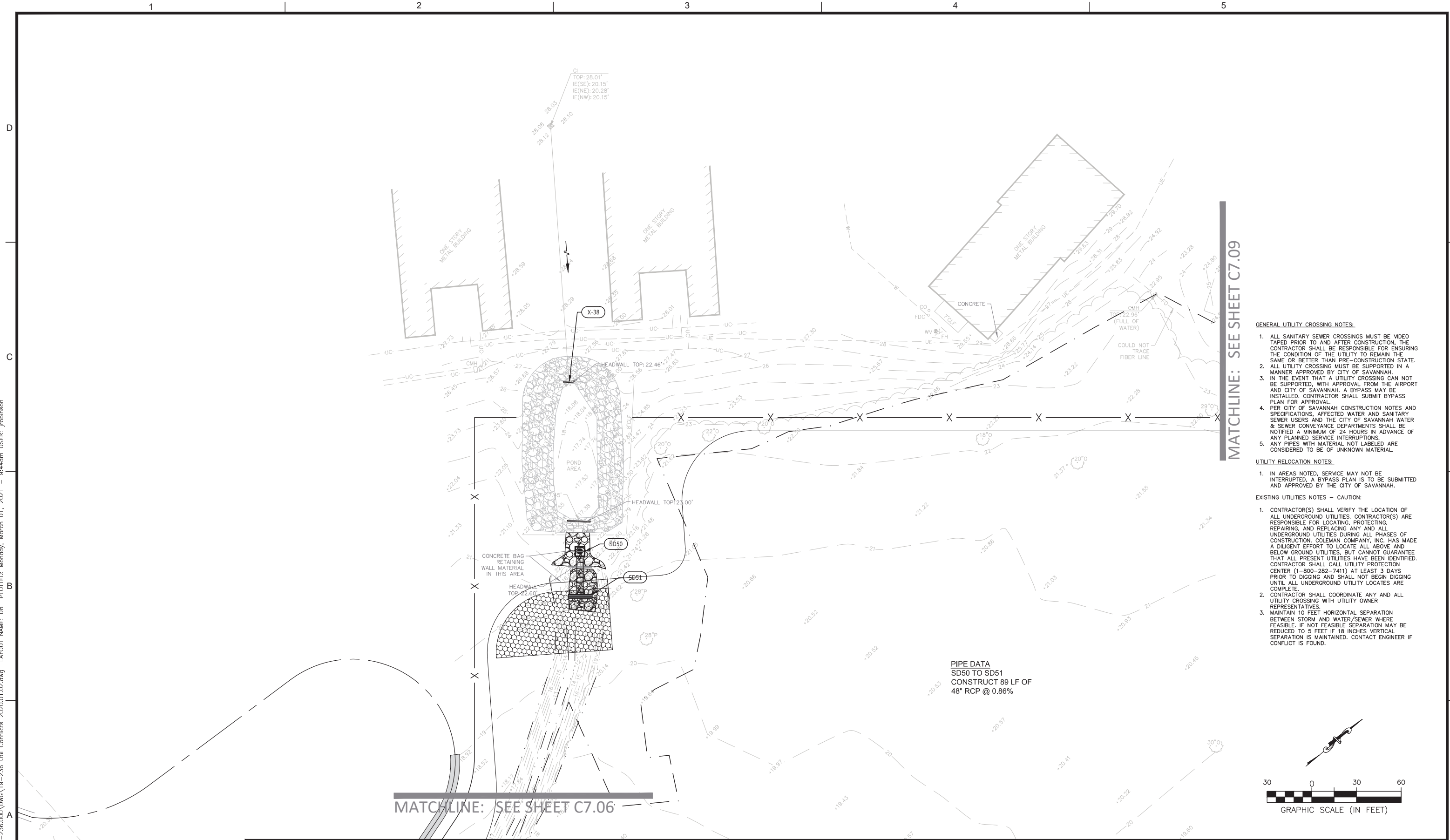
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.07**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 08 PLOTTED: Monday, March 01, 2021 - 9:44am USER: jrobison



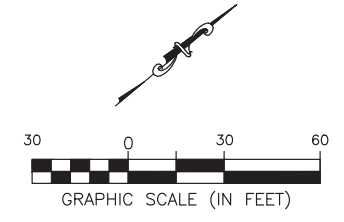
MATCHLINE: SEE SHEET C7.09

MATCHLINE: SEE SHEET C7.06

- GENERAL UTILITY CROSSING NOTES:**
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

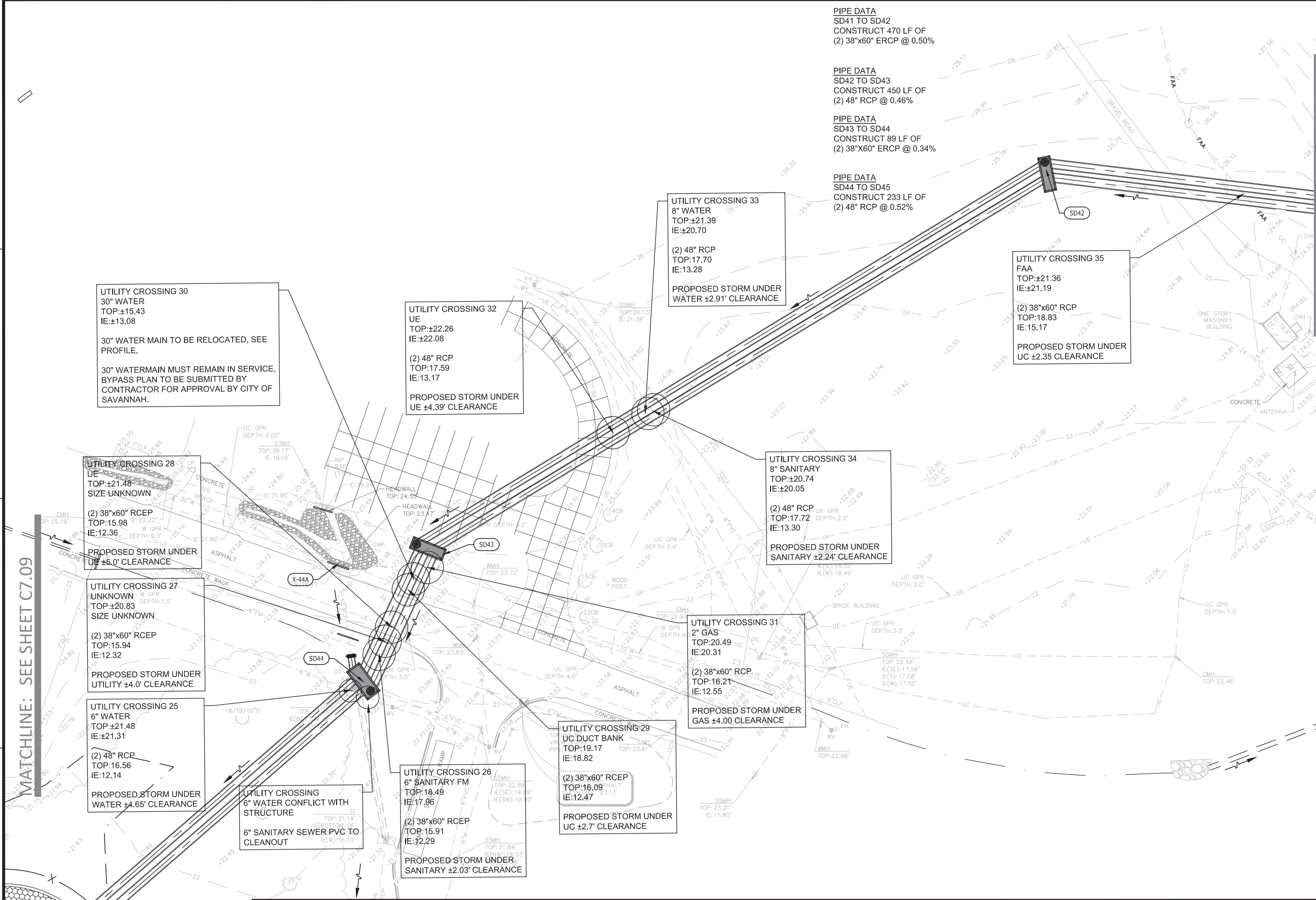
SHEET NO.: **C7.08**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"





FILE NAME: \\huik2019\19-236\DWG\19-236.dwg Uti Conflicts 2020.01.02.dwg LAYOUT NAME: 10 PLOTTED: Monday, March 01, 2021 - 10:05am USER: jrobinson



MATCHLINE: SEE SHEET C7.11

**LEGEND**

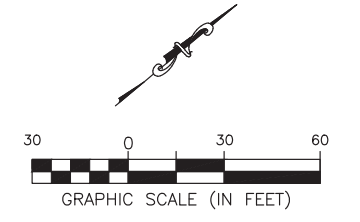
UTILITY TOP:X.XX UTILITY CROSSING WITH CONFLICT

UTILITY TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

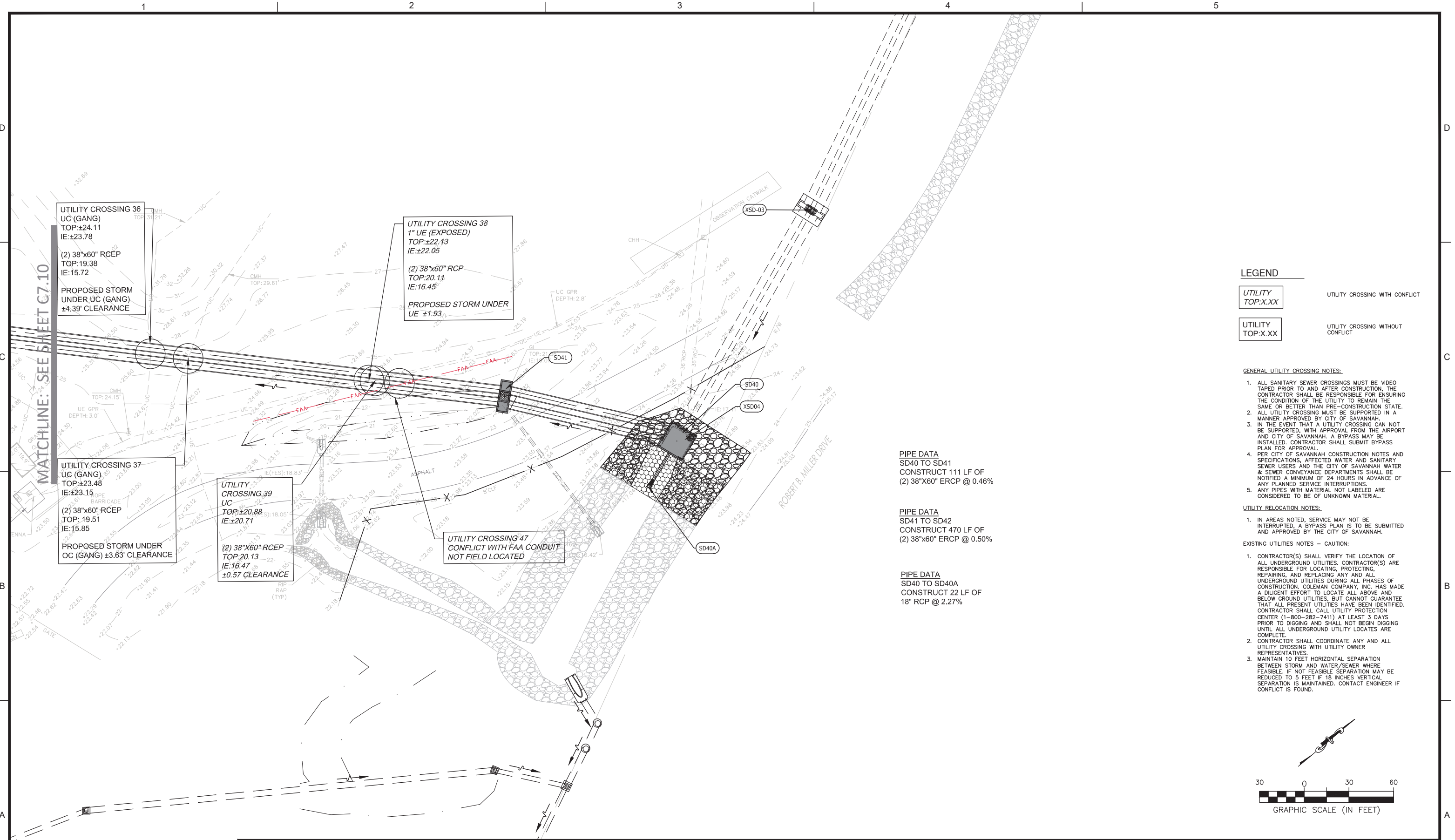
SHEET TITLE: **EXISTING RELOCATION & RELOCATION PLAN**

SHEET NO.: **C7.10**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huik\2019\19-236\000\DWG\19-236 Util Conflicts 2020.01.02.dwg LAYOUT NAME: 11 PLOTTED: Monday, March 01, 2021 - 10:06am USER: jrobinson



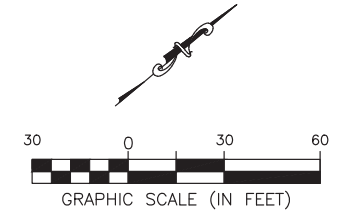
**LEGEND**

UTILITY TOP:X.XX UTILITY CROSSING WITH CONFLICT

UTILITY TOP:X.XX UTILITY CROSSING WITHOUT CONFLICT

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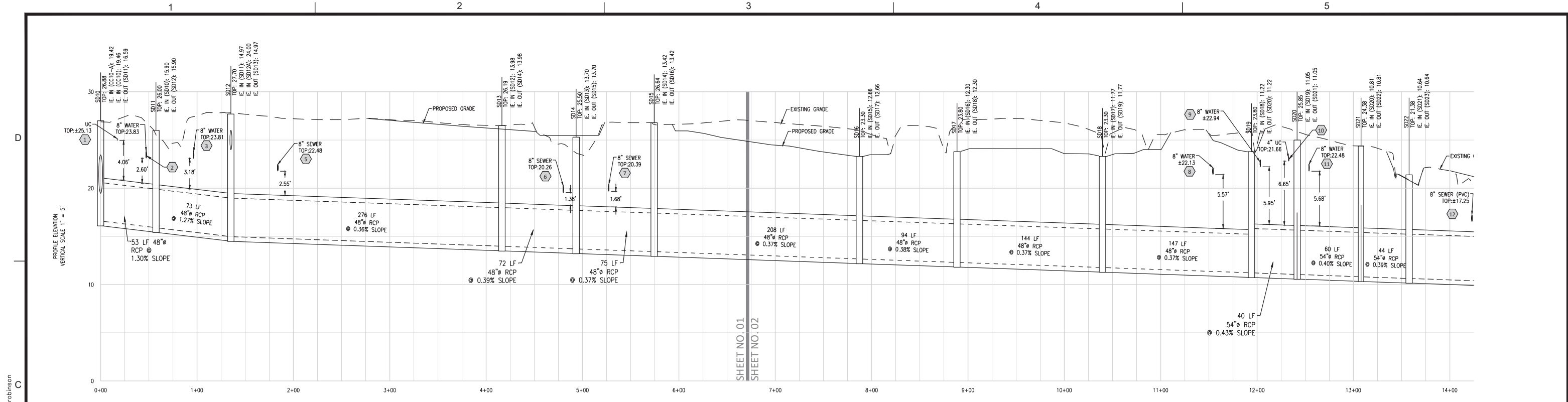
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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

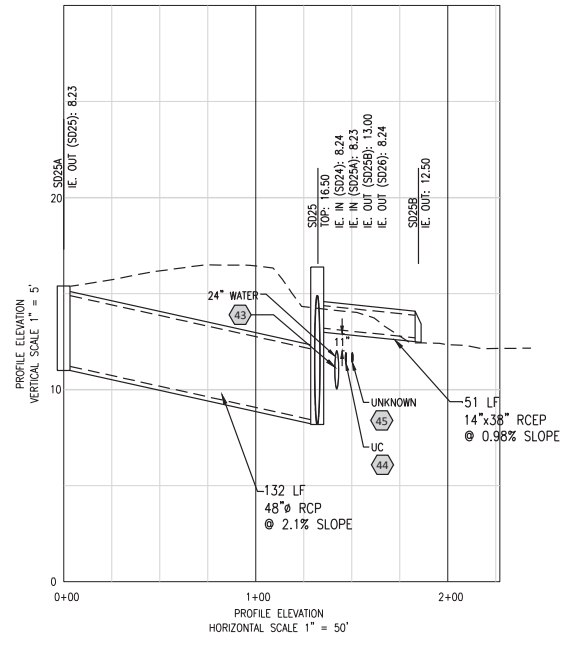
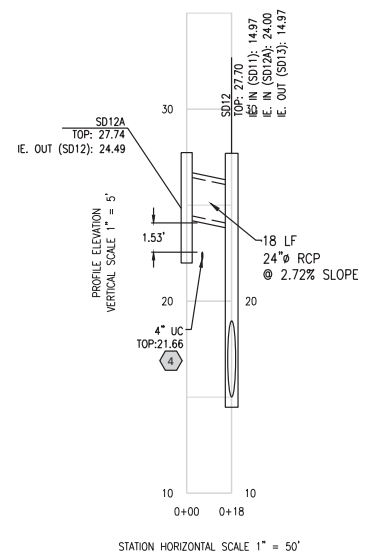
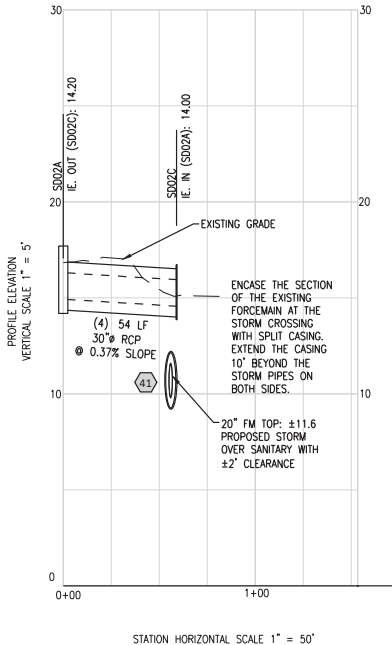
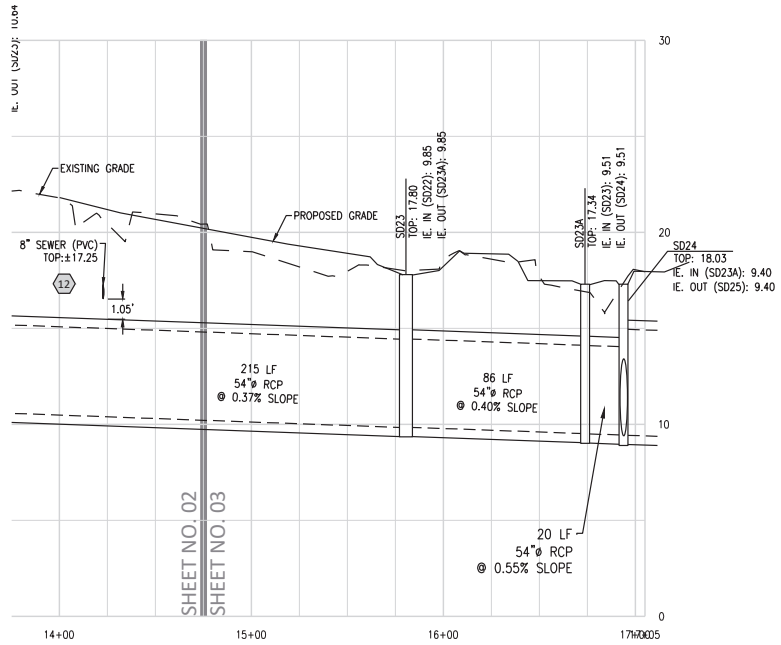
SHEET TITLE: **EXISTING UTILITIES & RELOCATION PLAN**

SHEET NO.: **C7.11**

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



STATION HORIZONTAL SCALE 1" = 50'  
**STORM SEWER PROFILE**  
 STA. 0+00.00 TO STA. 17+05.08



STATION HORIZONTAL SCALE 1" = 50'  
**STORM SEWER PROFILE**  
 STA. 0+00.00 TO STA. 0+59

STATION HORIZONTAL SCALE 1" = 50'  
**STORM SEWER PROFILE**  
 STA. 0+00.00 TO STA. 0+18

PROFILE ELEVATION HORIZONTAL SCALE 1" = 50'  
**STORM SEWER PROFILE**  
 STA. 0+00.00 TO STA. 1+81.00

UTILITY CROSSING

FILE NAME: \\Huk\2019\19-236\DWG\19-236.dwg LAYOUT NAME: STORM PROFILE 1 PLOTTED: Monday, March 15, 2021 - 10:34am USER: jrobinson

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**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

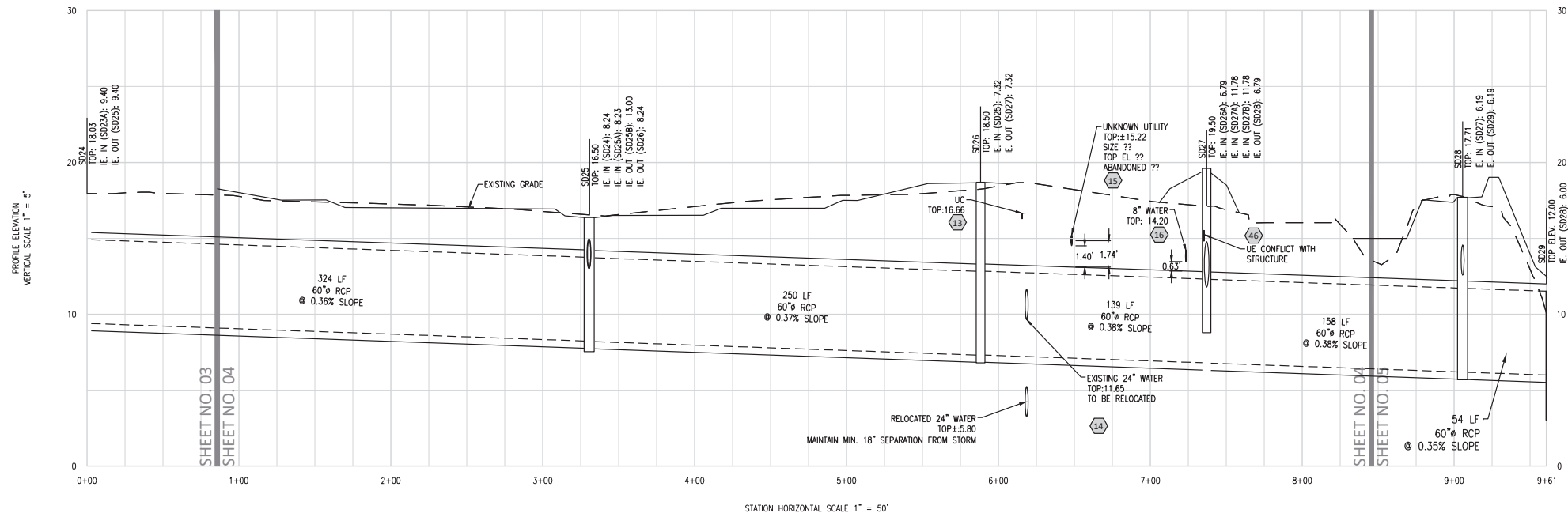
SHEET TITLE: **UTILITY PROFILES (1)**

SHEET NO.: **C7.12**

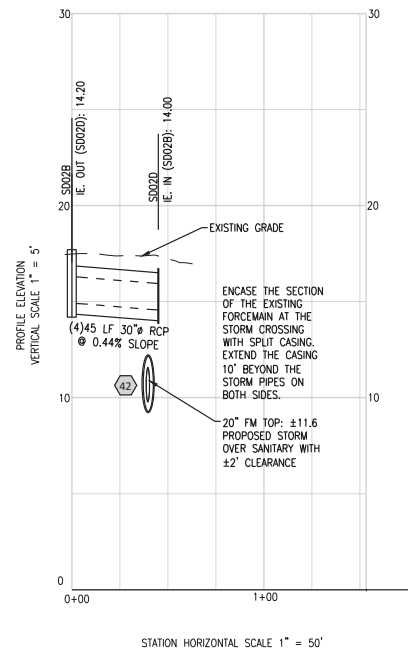
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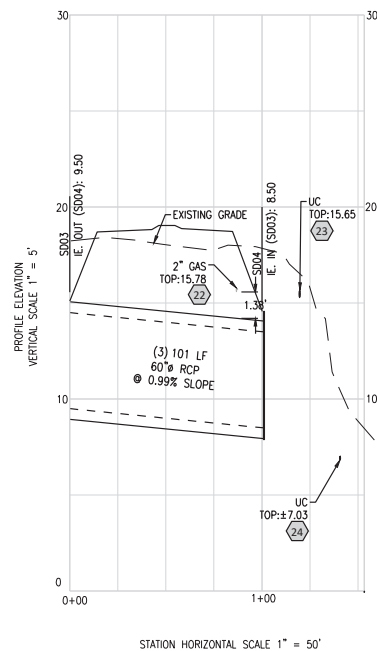
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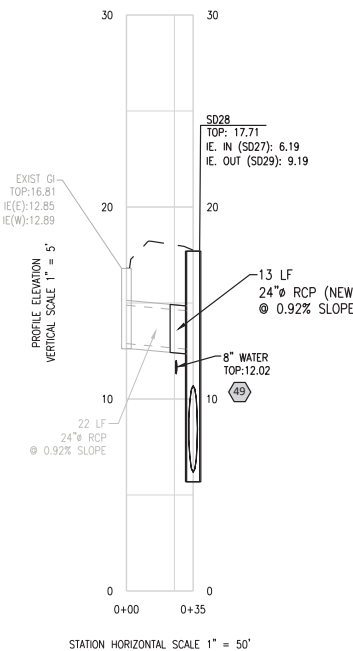
STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 9+60.77



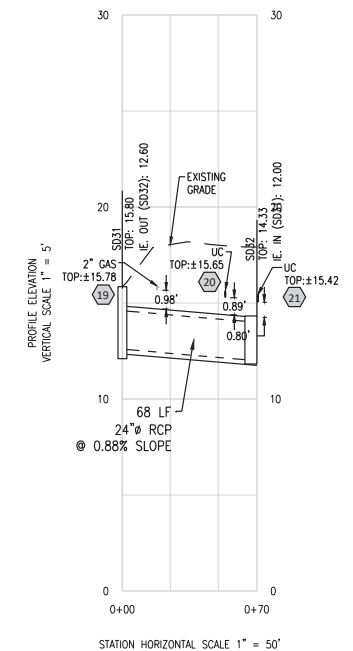
STORM SEWER PROFILE  
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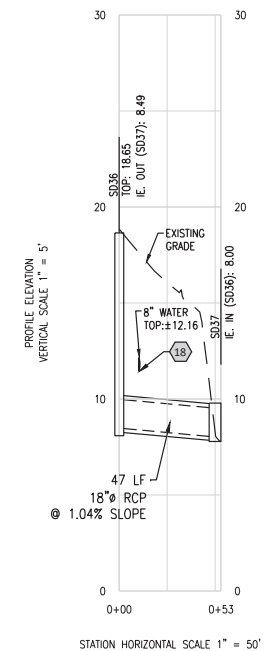
STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 0+101



STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 0+34.70



STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 0+70.00



STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 0+53.00

UTILITY CROSSING

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



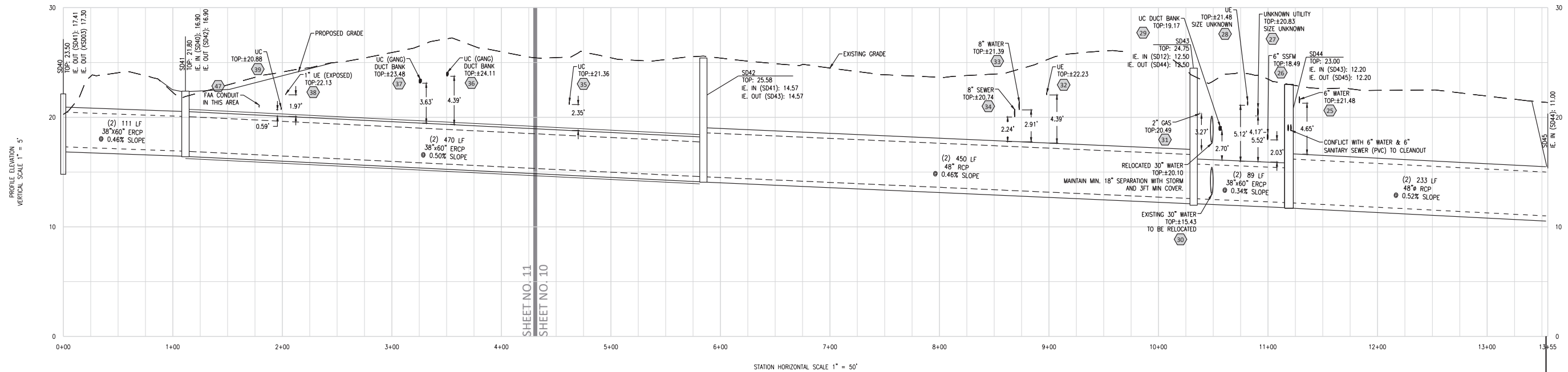
PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

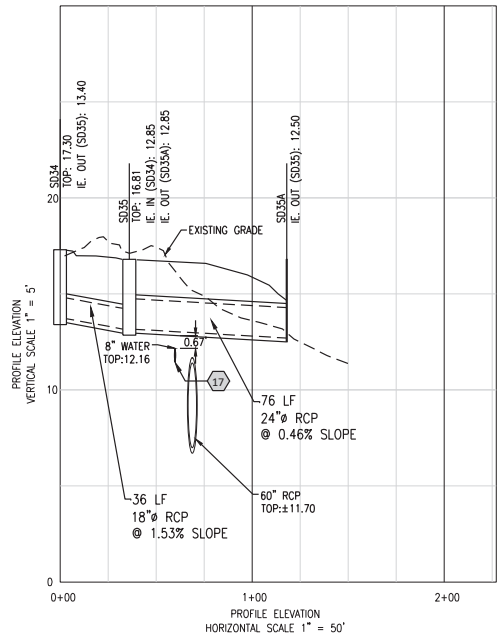
SHEET TITLE	SHEET NO.
UTILITY PROFILES (2)	C7.13

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

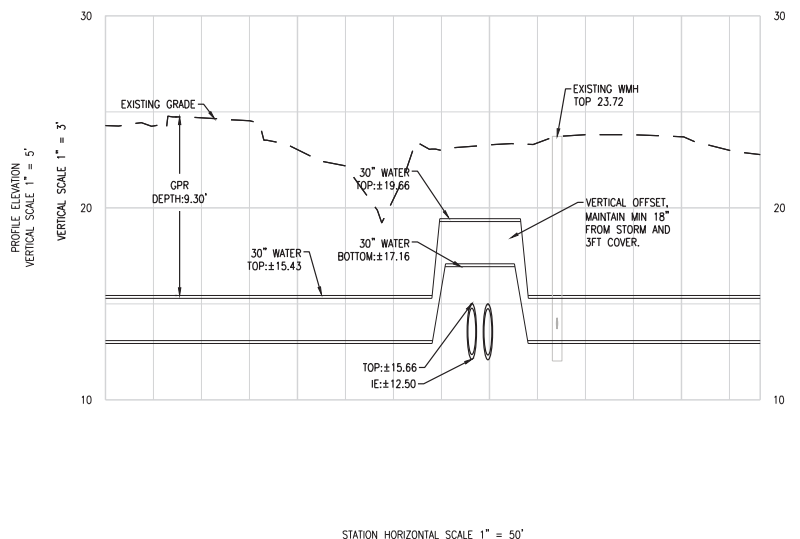
FILE NAME: \\huk\2019\19-236\000\DWG\19-236.dwg LAYOUT NAME: STORM PROFILE 3 PLOTTED: Monday, March 15, 2021 - 10:40am USER: jrobison



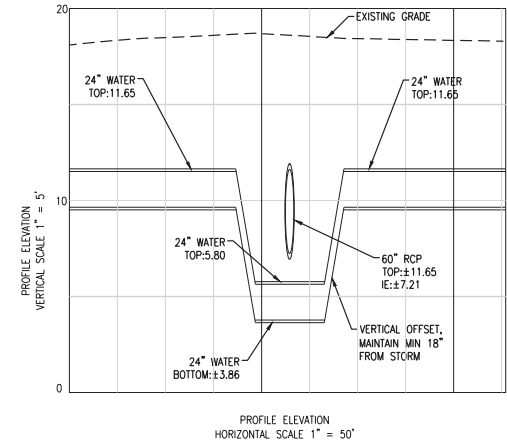
STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 13+55.49



STORM SEWER PROFILE  
STA. 0+00.00 TO STA. 1+18.00



30" WATER MAIN  
STA. 0+00.00 TO STA. 3+40.91



24" WATER MAIN

UTILITY CROSSING

**CAUTION**  
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MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
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**AECOM**  
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7650 W. Courtney Campbell Causeway  
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Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

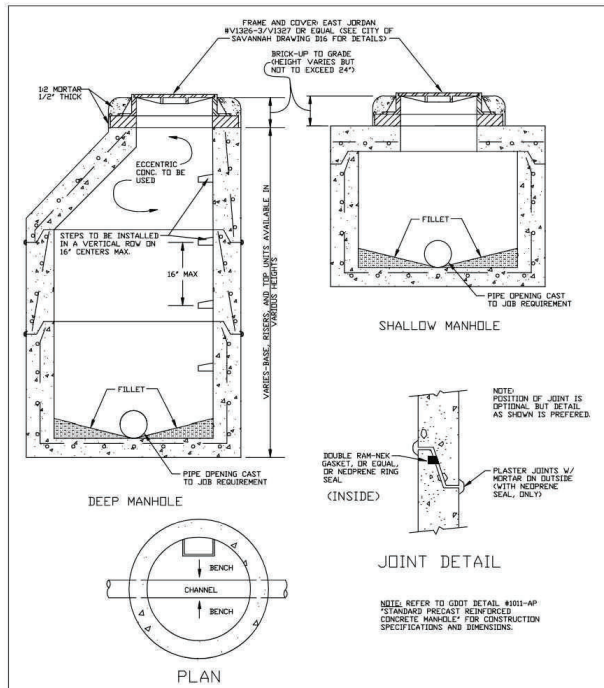
PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: **UTILITY PROFILES (3)**

SHEET NO.: **C7.14**



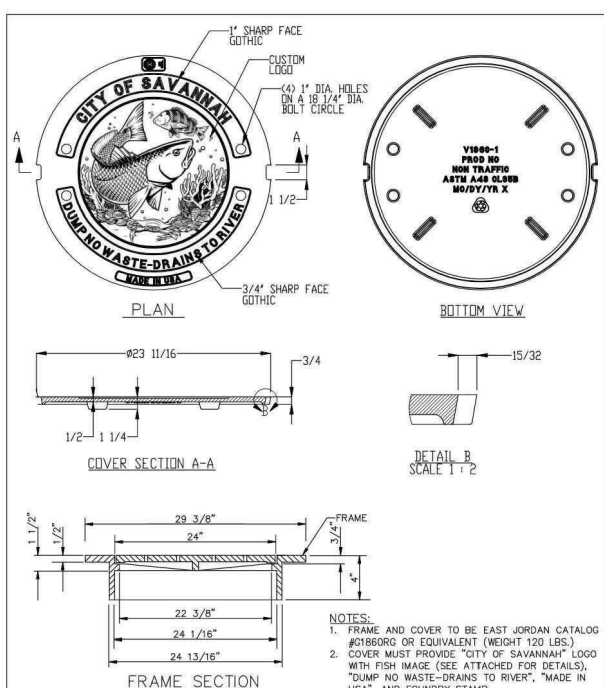


STANDARD CONSTRUCTION DETAILS  
STANDARD PRECAST CONCRETE MANHOLE

SAVANNAH  
savannahga.gov

APPROVED: [Signature] CITY ENGINEER  
SCALE: N.T.S.  
DATED: FEBRUARY 2019

PLATE NUMBER: D13

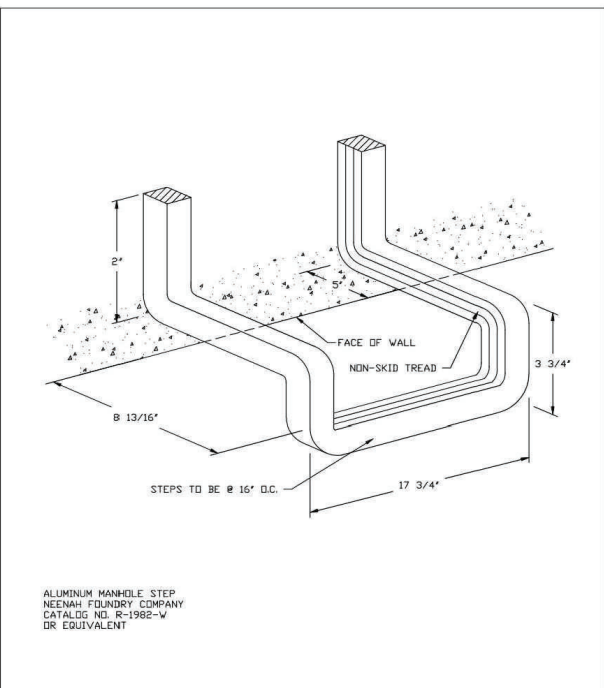


STANDARD CONSTRUCTION DETAILS  
INLET FRAME AND COVER

SAVANNAH  
savannahga.gov

APPROVED: [Signature] CITY ENGINEER  
SCALE: N.T.S.  
DATED: FEBRUARY 2019

PLATE NUMBER: D5

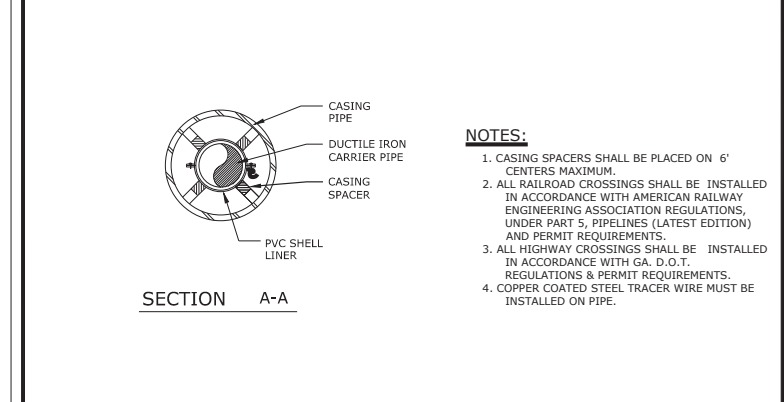
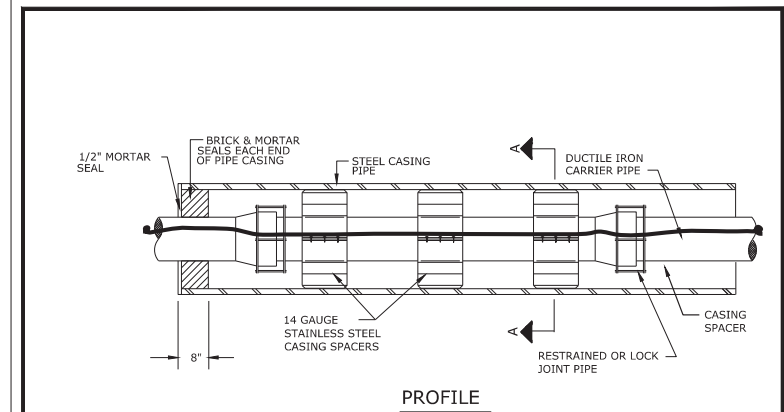


STANDARD CONSTRUCTION DETAILS  
MANHOLE STEP-ALUMINUM

SAVANNAH  
savannahga.gov

APPROVED: [Signature] CITY ENGINEER  
SCALE: N.T.S.  
DATED: FEBRUARY 2019

PLATE NUMBER: D14



STANDARD CONSTRUCTION DETAILS

CITY OF SAVANNAH  
WATER RESOURCES AND PUBLIC WORKS BUREAU  
Planning & Engineering

SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: S9A

- NOTES:**
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF SAVANNAH'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS. THE SYSTEM SHALL BE DESIGNED AND TESTED PER THE SPECIFICATIONS AND REQUIREMENTS MAINTAINED BY THE CITY ENGINEER.
  - AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
  - ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW-PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
  - ALL ABANDONED SANITARY SEWER LINES SHALL BE PLUGGED.
  - IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SEWER LINES ARE PLACED WITHIN THE EASEMENTS WITH A MINIMUM 7'-6" AVAILABLE FROM PIPE CENTERLINE TO EASEMENT LINE.
  - CONTACT THE UTILITIES PROTECTION CENTER (811 IN GEORGIA OR 1-800-282-7411) FOR LOCATION OF CITY SEWER LINES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
  - CONTRACTOR SHALL NOTIFY RESIDENTS A MINIMUM OF 24 HOURS IN ADVANCE OF ANY WORK THAT MAY IMPACT THEM INCLUDING BUT NOT LIMITED TO: PARKING STALL IMPACT, LOSS OF SERVICE, DRIVEWAY CUTS, REMOVAL/RELOCATION OF FENCES AND MAIL BOXES, SIDEWALK IMPACTS, ETC.

**SANITARY SEWER GENERAL NOTES**

STANDARD CONSTRUCTION DETAILS

CITY OF SAVANNAH  
WATER RESOURCES AND PUBLIC WORKS BUREAU  
Planning & Engineering

SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: S17

**PVC LINE**

PIPE DIA.	BEND ANGLE		
	11 +	22 +	45
4	1	1	1
6	1	1	2
8	2	1	3
10	2	1	4
12	2	2	4
16	3	2	5
20	3	3	6
24	4	3	7

**POLYETHYLENE WRAPPED DUCTILE IRON LINE**

PIPE DIA.	BEND ANGLE		
	11 +	22 +	45
4	1	1	2
6	1	1	3
8	2	2	4
10	2	2	5
12	3	3	6
16	3	4	8
20	4	4	10
24	5	5	12

**NOTES:**

- LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIA. IS IN INCHES
- WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
- INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

**VERTICAL BEND RESTRAINT**

STANDARD CONSTRUCTION DETAILS

CITY OF SAVANNAH  
WATER RESOURCES AND PUBLIC WORKS BUREAU  
Planning & Engineering

SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W29

- NOTES:**
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF SAVANNAH'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS. THE SYSTEM SHALL BE DESIGNED AND TESTED PER THE SPECIFICATIONS AND REQUIREMENTS MAINTAINED BY THE CITY ENGINEER.
  - THE WATER SERVICE LATERAL SERVING THE FACILITY SHALL BE INSTALLED BY THE DEVELOPER/CONTRACTOR FROM THE WATER MAIN TO THE METERS. THE CITY OF SAVANNAH WILL ONLY MAKE THE WET TAP. THE CITY WILL NOT INSTALL THE WATER SERVICE LATERAL.
  - ALL MATERIALS USED AND COMING INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
  - IN ALL WATER LINE PROJECTS, CARE WILL BE TAKEN TO KEEP THE INTERIOR OF THE WATER PIPE CLEAN PRIOR TO CONNECTION TO THE CITY SYSTEM.
  - PIPE FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE A HAZARD TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPES, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES.
  - ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUIVALENT, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID. NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
  - CLEAN THE INTERIORS OF ALL PIPES BY BRUSHING, SWABBING OR WASHING OUT OF ALL DIRT BEFORE LAYING.
  - FLUSH THE NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. FLUSH NEW LINES WITH SUFFICIENT FLOW TO OBTAIN A FLUSHING VELOCITY OF 2 FT/SEC. FLUSH LINES UNTIL WATER RUNS FREE OF DEBRIS. COORDINATE FLUSHING ACTIVITIES WITH CITY PERSONNEL.
  - ANY METER OR HYDRANT REMOVED FROM THE SITE SHALL BE RETURNED TO THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
  - AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
  - ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CONVEYANCE AND DISTRIBUTION DEPARTMENT.
  - ALL ABANDONED WATER LINES SHALL BE CAPPED AT THE MAIN AND THE PIPES PLUGGED.
  - IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE WATER LINES ARE PLACED WITHIN THE EASEMENTS WITH A MINIMUM 7'-6" AVAILABLE FROM PIPE CENTERLINE TO EASEMENT LINE.
  - CONTACT THE UTILITIES PROTECTION CENTER (811 IN GEORGIA OR 1-800-282-7411) FOR LOCATION OF CITY WATER LINES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
  - CONTRACTOR SHALL NOTIFY RESIDENTS A MINIMUM OF 24 HOURS IN ADVANCE OF ANY WORK THAT MAY IMPACT THEM, INCLUDING BUT NOT LIMITED TO: PARKING STALL IMPACT, LOSS OF SERVICE, DRIVEWAY CUTS, REMOVAL/RELOCATION OF FENCES AND MAIL BOXES, SIDEWALK IMPACTS, ETC.

**WATER GENERAL NOTES**

STANDARD CONSTRUCTION DETAILS

CITY OF SAVANNAH  
WATER RESOURCES AND PUBLIC WORKS BUREAU  
Planning & Engineering

SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W44

**CAUTION**  
EXISTING CABLES, DUCTS, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES ARE DEPICTED SCHEMATICALLY AND REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND ARE NOT INTENDED TO REPRESENT NUMBER OF OR LOCATION OF DUCTS, CABLES, UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES AND ARE INTENDED FOR GENERAL INFORMATION ONLY.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
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**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	RWP
DWG. BY:	JWR
CHK. BY:	GJC
DSG. BY:	DLF
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

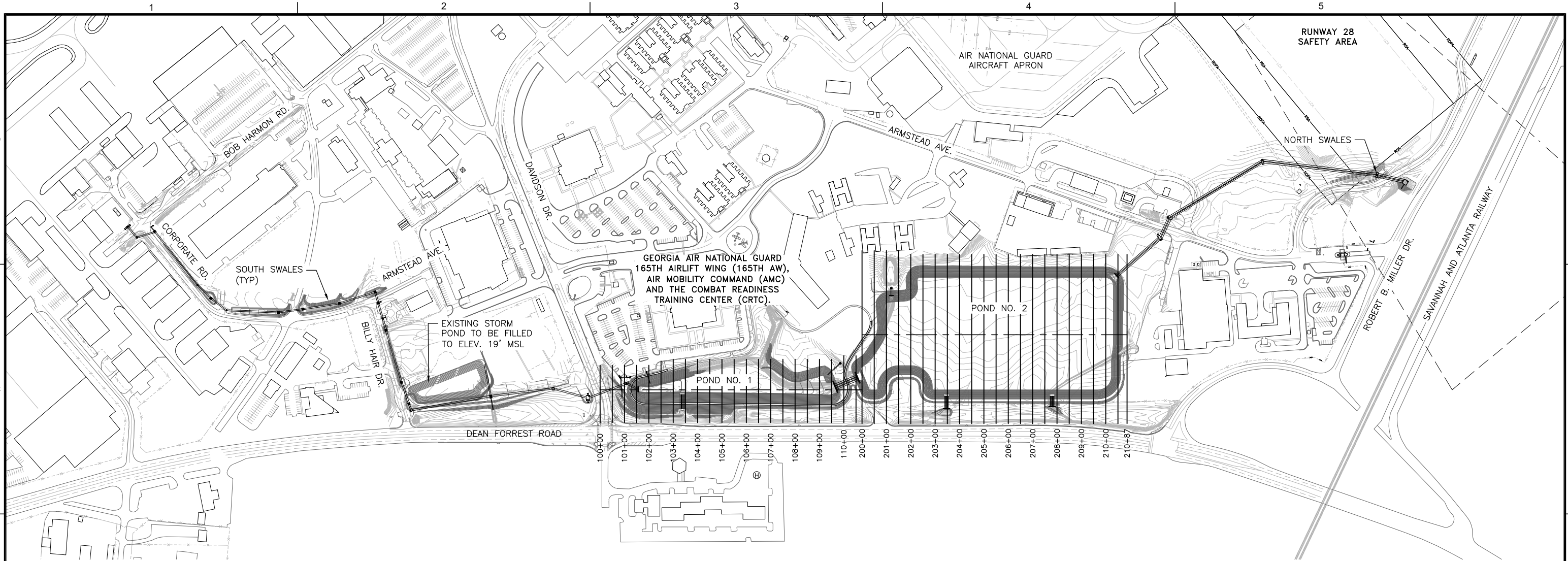
UTILITY DETAILS

SHEET TITLE: UTILITY DETAILS  
SHEET NO.: C7.15

FILE NAME: \\huk\2019\19-236\DWG\19-236.dwg PLOTTED: Monday, March 15, 2021 - 10:40am USER: jrobinson LAYOUT NAME: CONSTRUCTION DETAILS



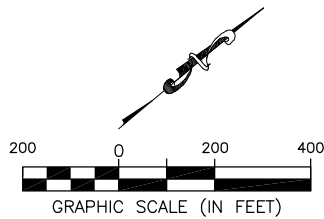
FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\Airport Commission\900-Work\910 CAD\20-SHEETS\1-00 MASTER XSEC.dwg LAYOUT NAME: X1-00 PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma.Presley



END AREA EARTHWORK ANALYSIS				
SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT				
SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENT				
EXCAVATION/EMBANKMENT				
CUMULATIVE VOLUME				
AREAS OF CROSS SECTIONS	CUT (CY)	FILL (CY)	BALANCE (CY)	
EXISTING WET DETENTION POND NO. 1 (AT G.A.N.G. TRACK)	5100.00	5136.00	-36.00	Cross Sections Included
NEW WET DETENTION POND NO. 2	215409.00	2533.00	212877.00	Cross Sections Included
ROADWAY SWALES (SOUTH PIPE SYSTEM)	1825.00	10687.00	-8862.00	Cross Sections Not Included
ROADWAY SWALES (NORTH PIPE SYSTEM)	25.00	183.00	-159.00	Cross Sections Not Included
NUMBERS HAVE BEEN ROUNDED	<b>222359.00</b>	<b>18540.00</b>	<b>203819.00</b>	Excess material

**GENERAL NOTES:**

- BEARINGS AND COORDINATES SHOWN HERE ON THESE PLANS ARE GRID, BASED ON GEORGIA EAST STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SEE SHEET G1.02 FOR INDEX OF DRAWINGS.
- SEE SHEET G1.03 FOR GENERAL CONTRACT NOTES AND SAFETY AND SECURITY REQUIREMENTS.
- SEE SHEET G1.04 FOR CONTRACT LAYOUT PLAN.
- SEE SHEETS G2.01 THRU G2.03 FOR PHASING PLANS AND NOTES.
- SEE SHEET G3.01 FOR SAFETY DETAILS.
- SEE SHEET G4.01 FOR PROJECT HORIZONTAL & VERTICAL CONTROL PLAN.
- SEE SHEET G4.02 FOR HORIZONTAL & VERTICAL CONTROL TABLES.
- SEE SHEET C1.01 FOR NEW STORM POND NO. 2 WETLAND IDENTIFICATION PLAN.
- SEE SHEETS C1.02 AND C1.03 FOR TREE CLEARING DEMOLITION PLANS.
- SEE SHEETS C1.04 AND C1.05 FOR TEMPORARY SECURITY FENCING PLANS.
- SEE SHEETS C1.21 THRU C1.24 FOR TYPICAL SECTIONS AND PAVEMENT REPLACEMENT DETAILS.
- SEE "C2" SERIES FOR EXISTING CONDITIONS & DEMOLITION PLANS.
- SEE "C3" SERIES FOR NEW STORM WATER PLAN & PROFILES.
- SEE "C4" SERIES FOR PROJECT ALIGNMENTS, GRADING AND DRAINAGE PLANS, NOTES AND DETAILS, DRAINAGE PIPE AND STRUCTURE DATA SCHEDULES AND DRAINAGE AND CONTROL STRUCTURE DETAILS.
- SEE "C5" SERIES FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS.
- SEE "C6" SERIES FOR FENCING PLANS AND DETAILS.
- SEE "C7" SERIES EXISTING UTILITIES & RELOCATION PLANS, NOTES, PROFILES AND DETAILS.
- SEE "X1 & X2" SERIES FOR PROJECT CROSS SECTIONS.
- SEE "SV" SERIES FOR PROJECT FIELD SURVEY PLANS.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



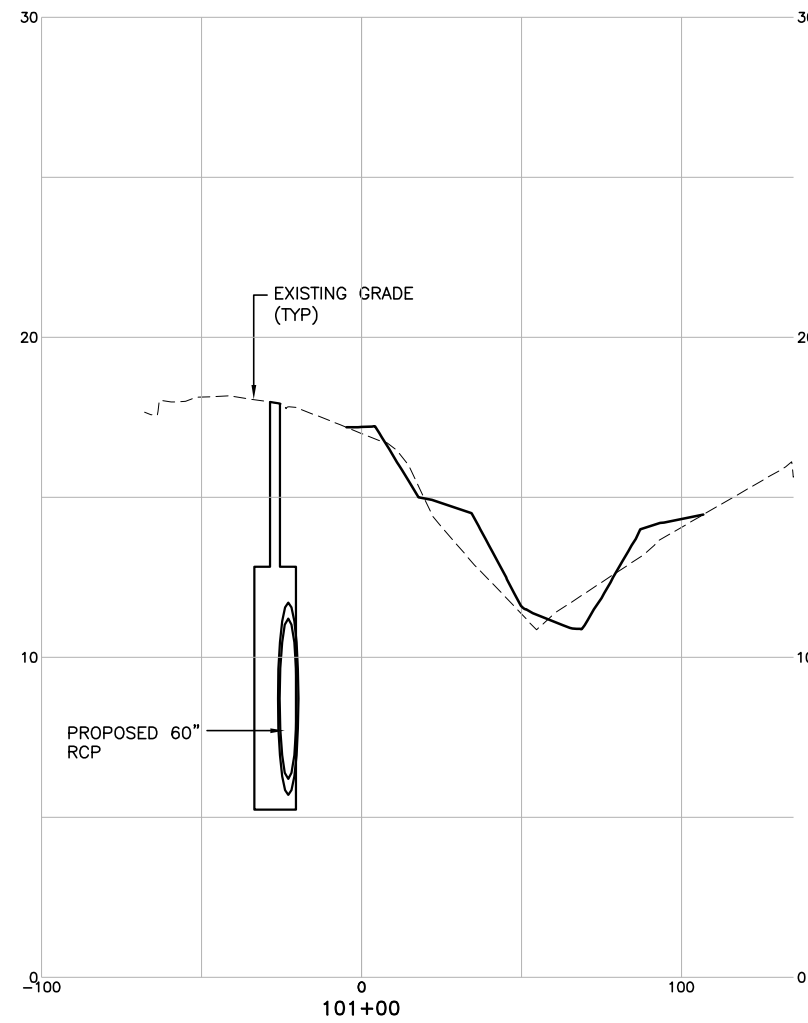
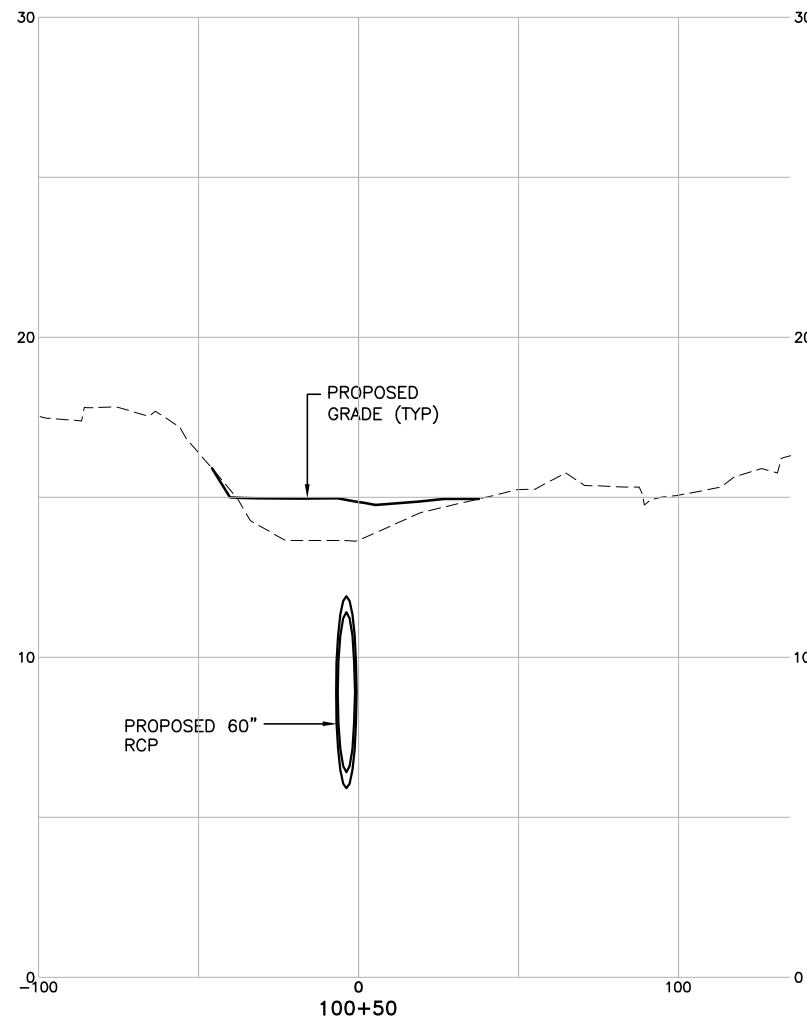
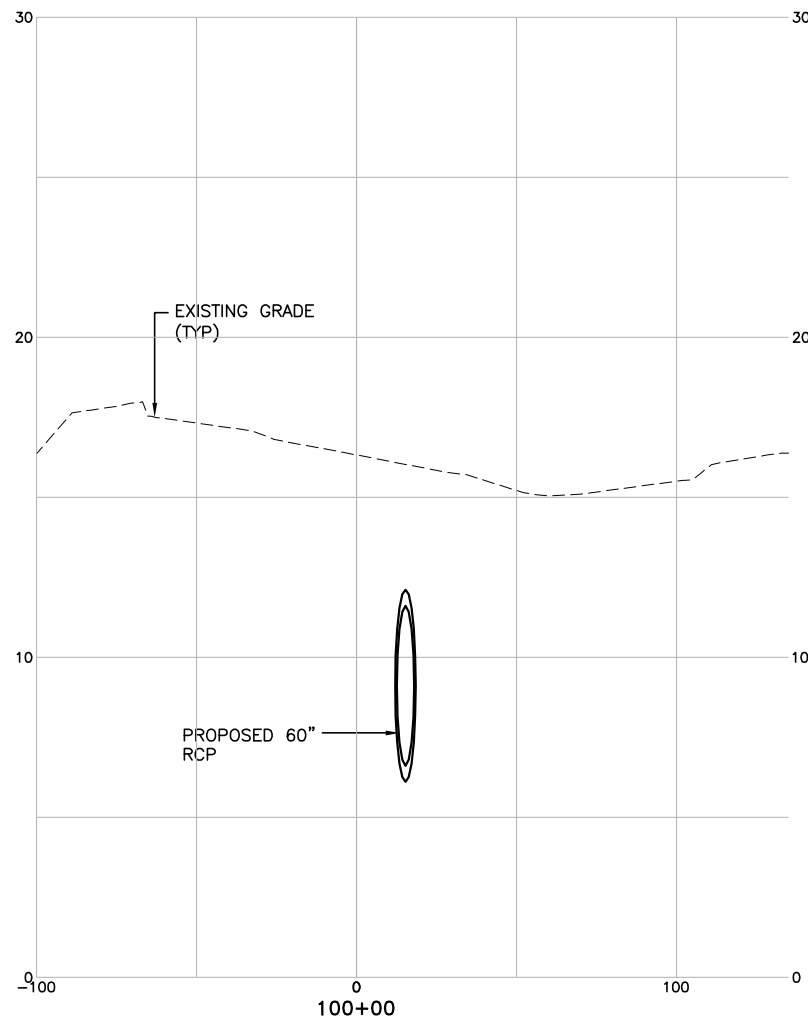
PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>MASTER CROSS SECTION PLAN POND NO.1 &amp; POND NO. 2</b>	<b>X1.00</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

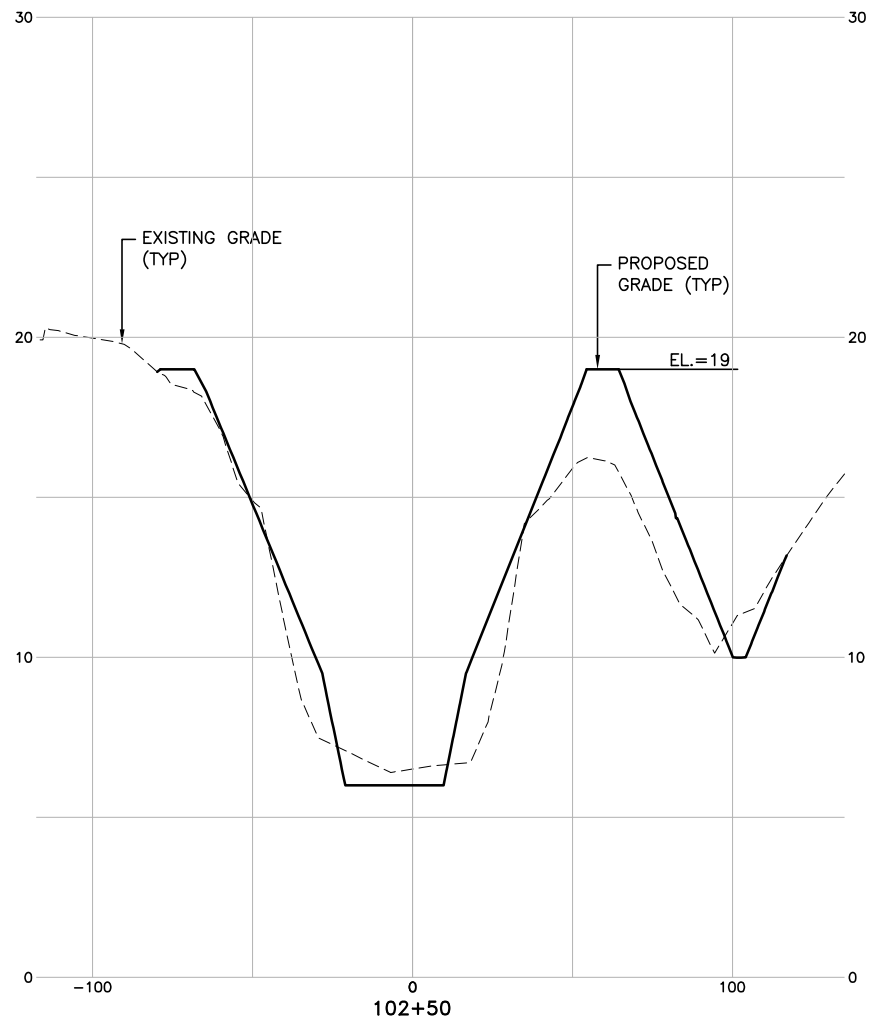
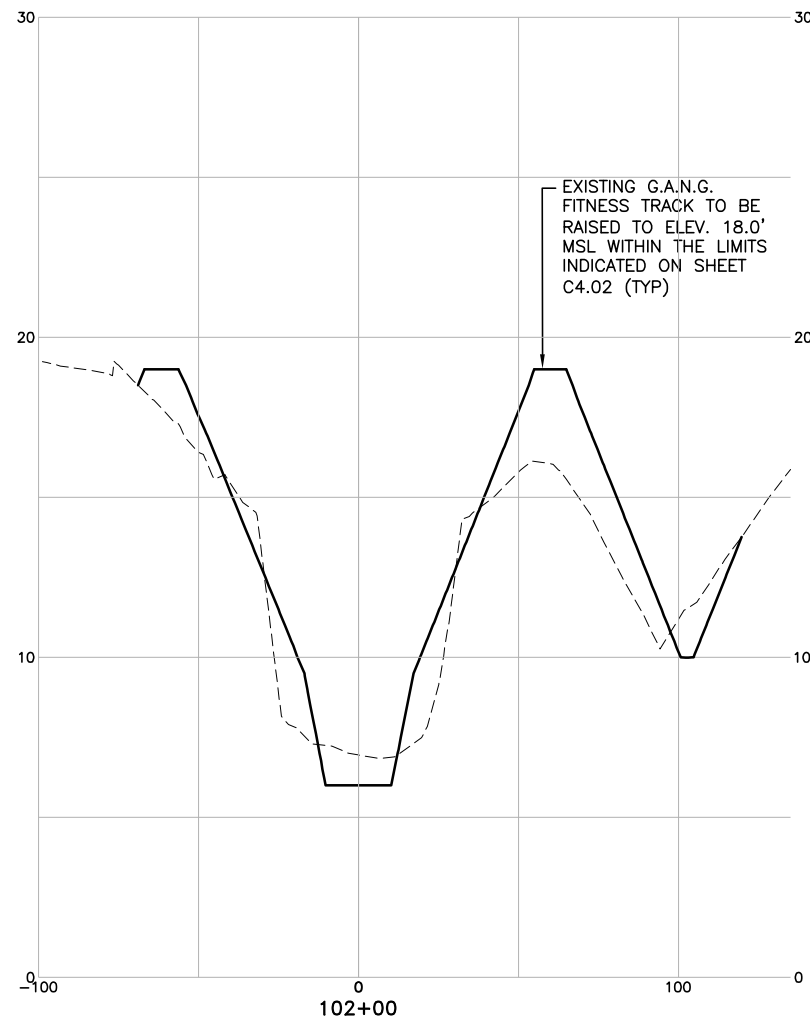
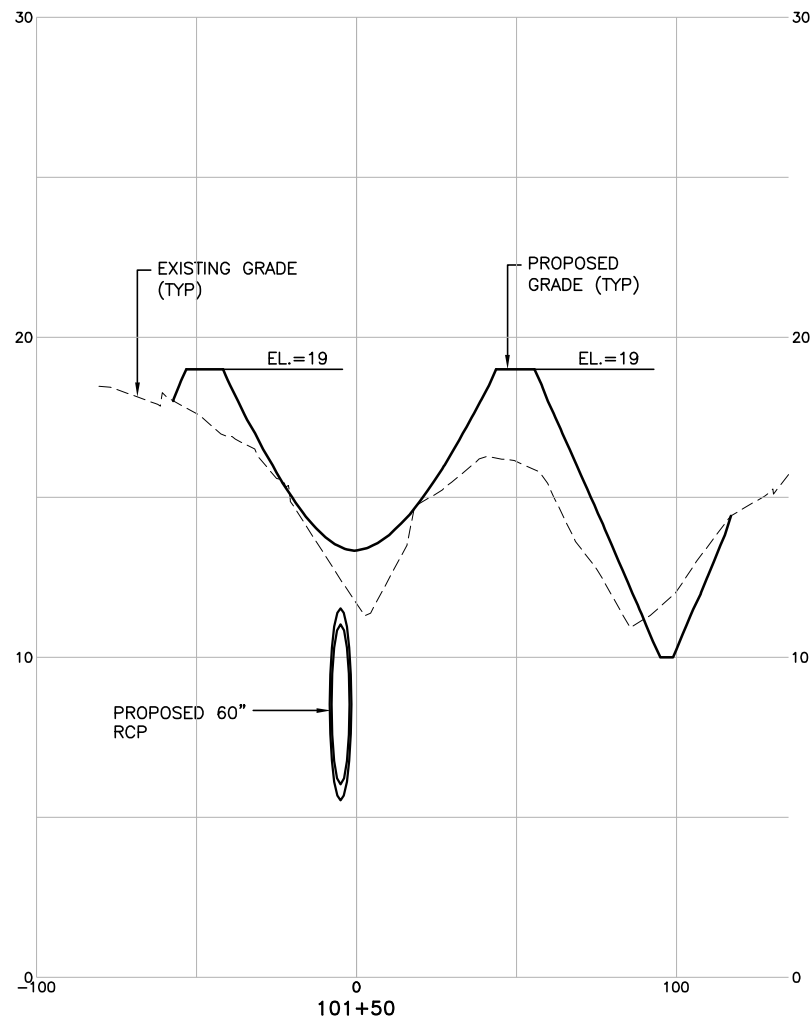


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
G.A.N.G. POND NO. 1 CROSS SECTIONS (1)	X1.01

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

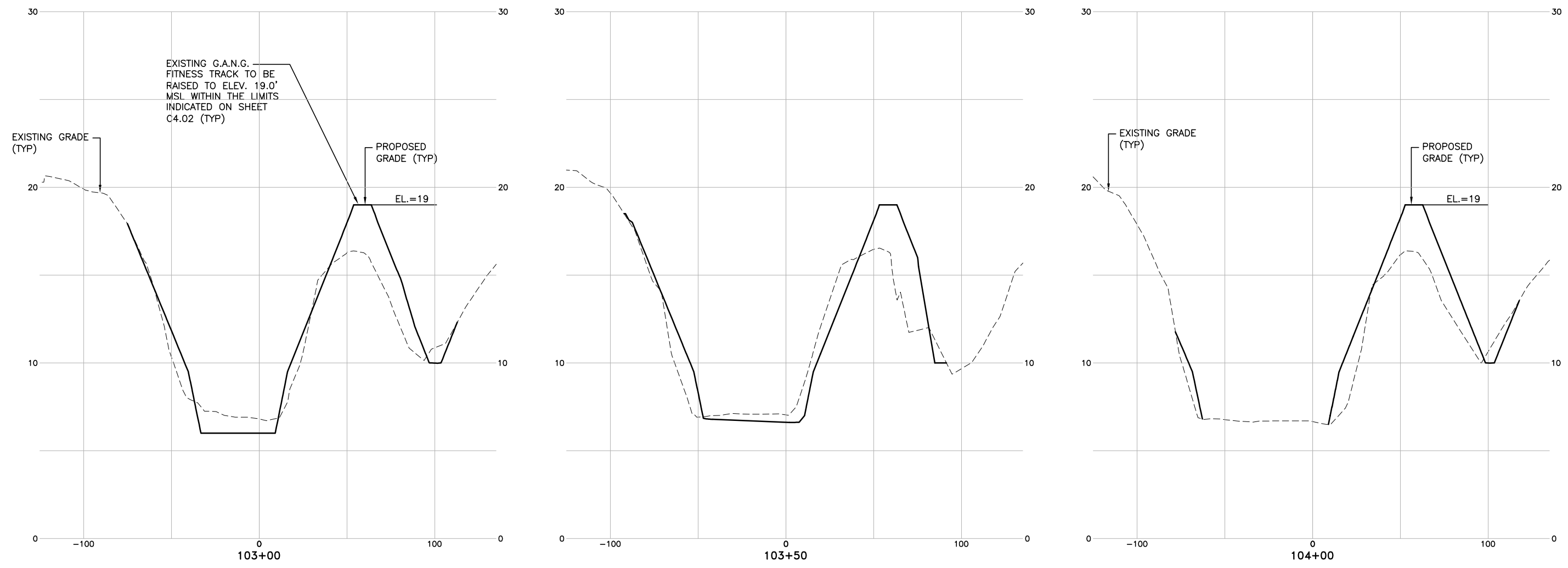
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G.A.N.G. POND NO. 1 CROSS SECTIONS (2)	X1.02



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley

THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



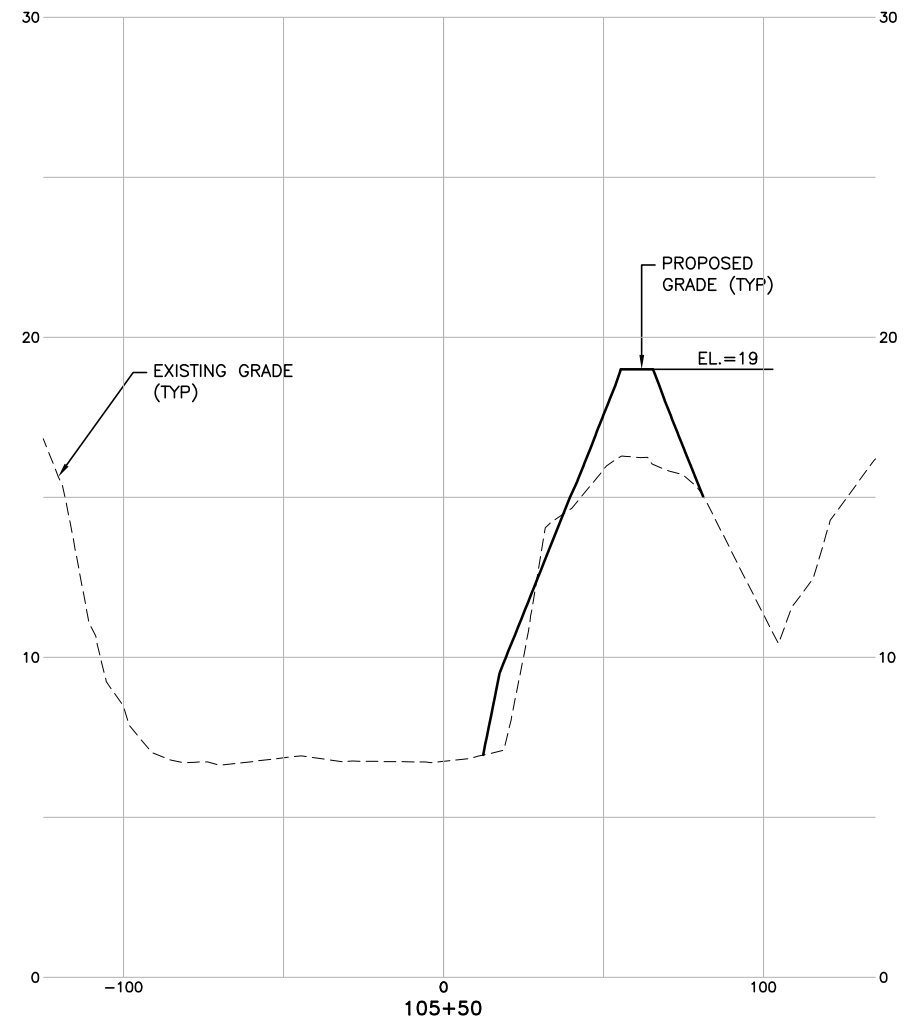
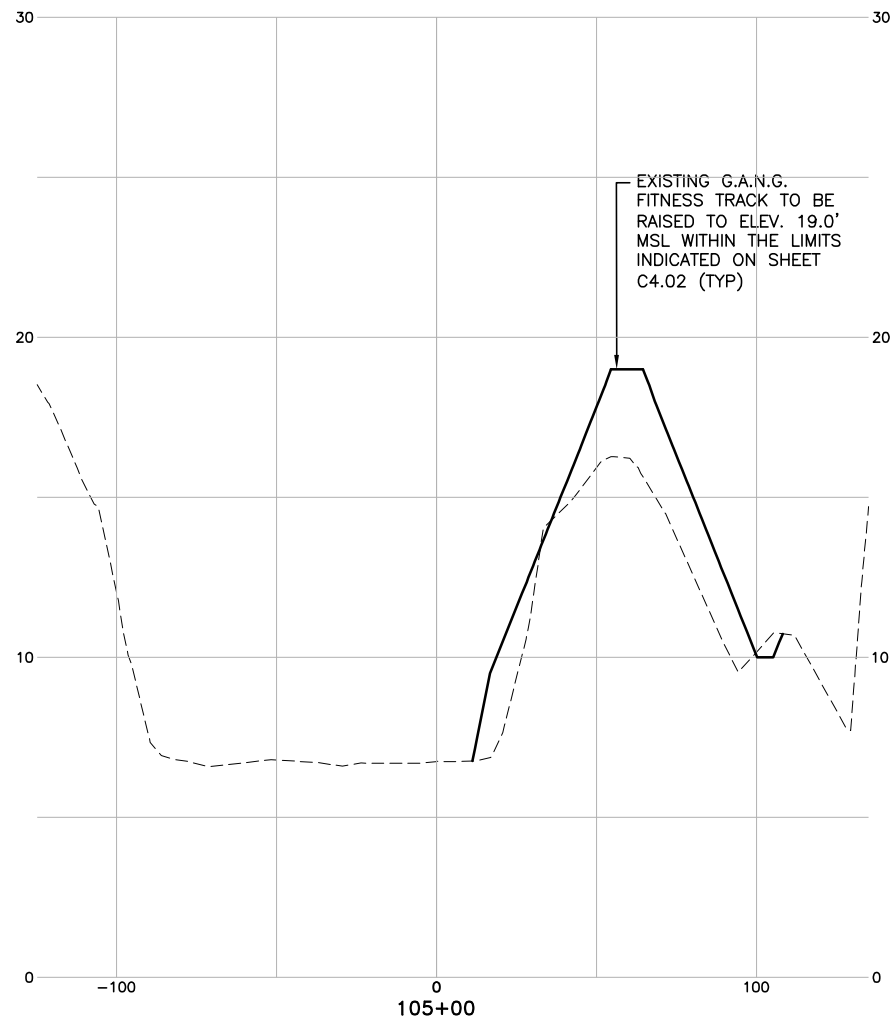
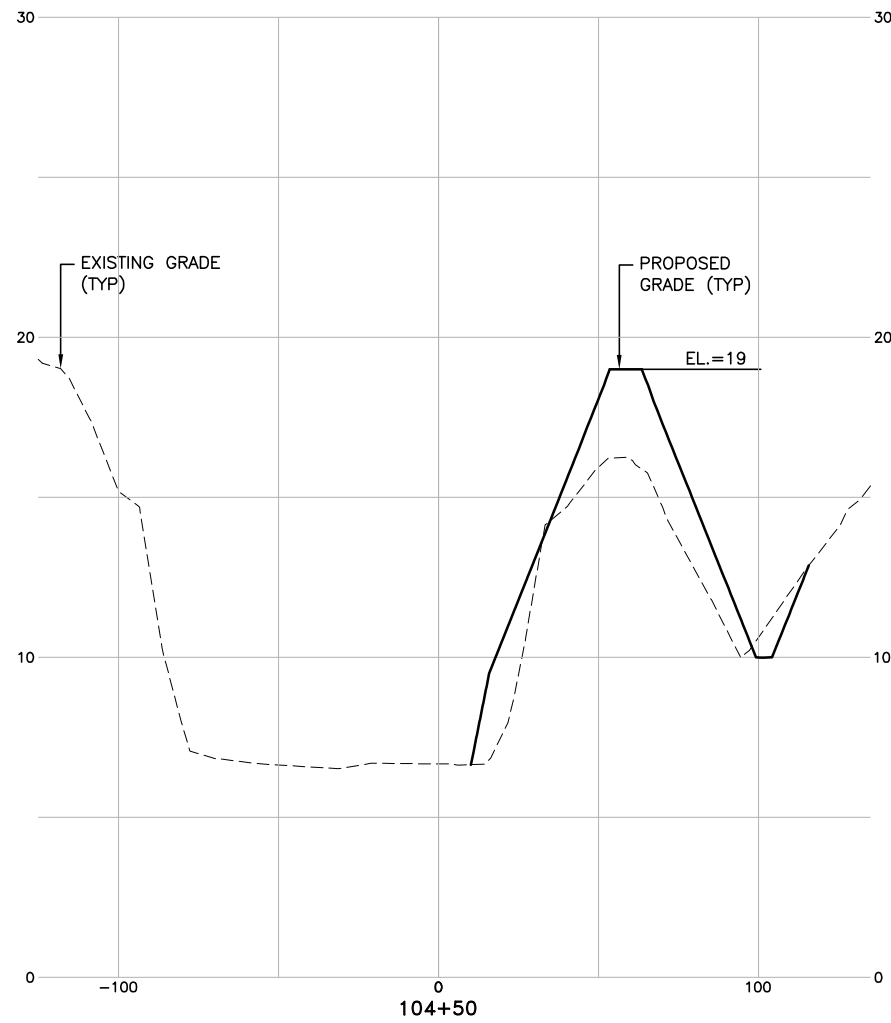
DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>G.A.N.G. POND NO. 1 CROSS SECTIONS (3)</b>	<b>X1.03</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
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DATE	DESCRIPTION	BY	AUTH
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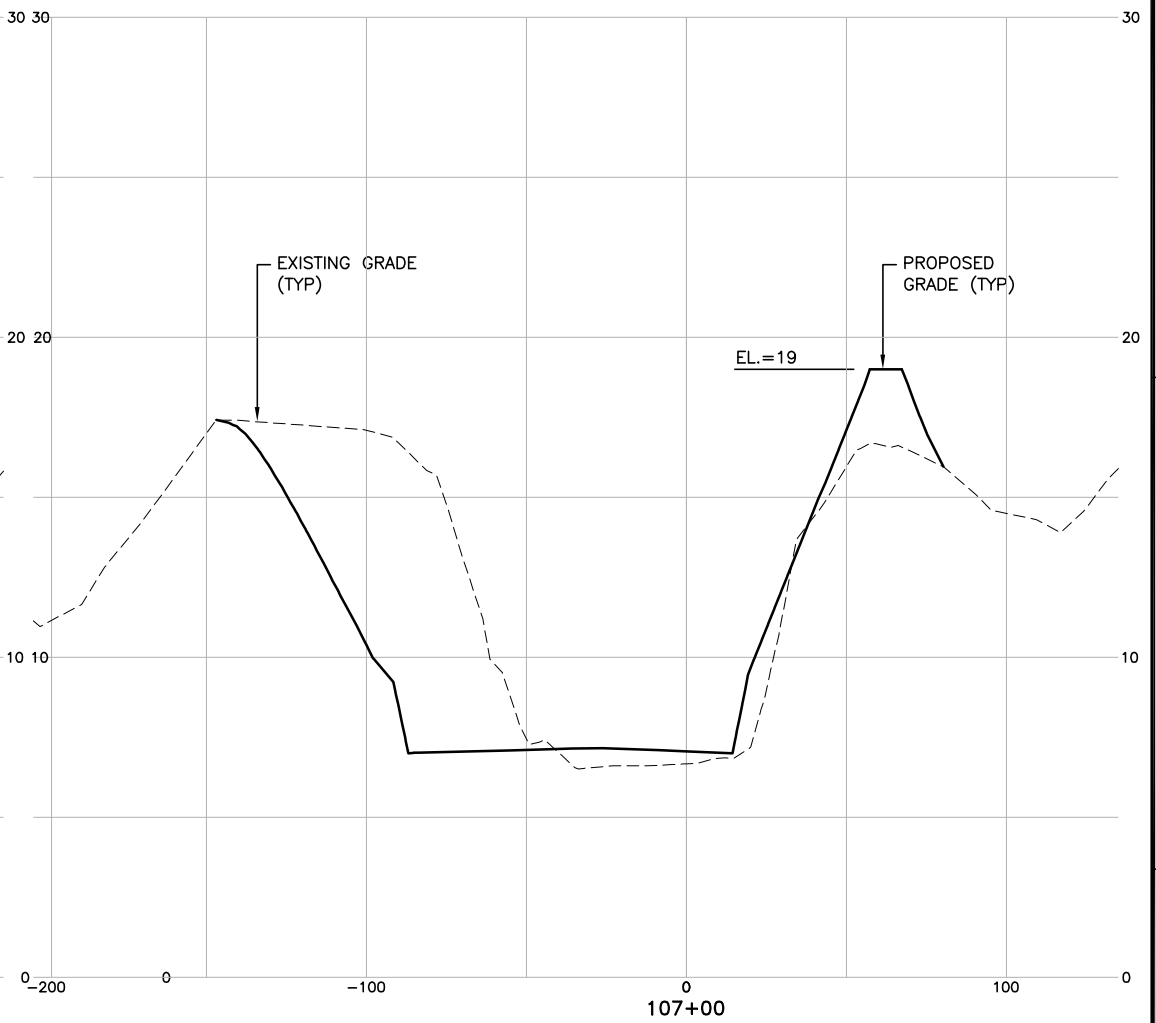
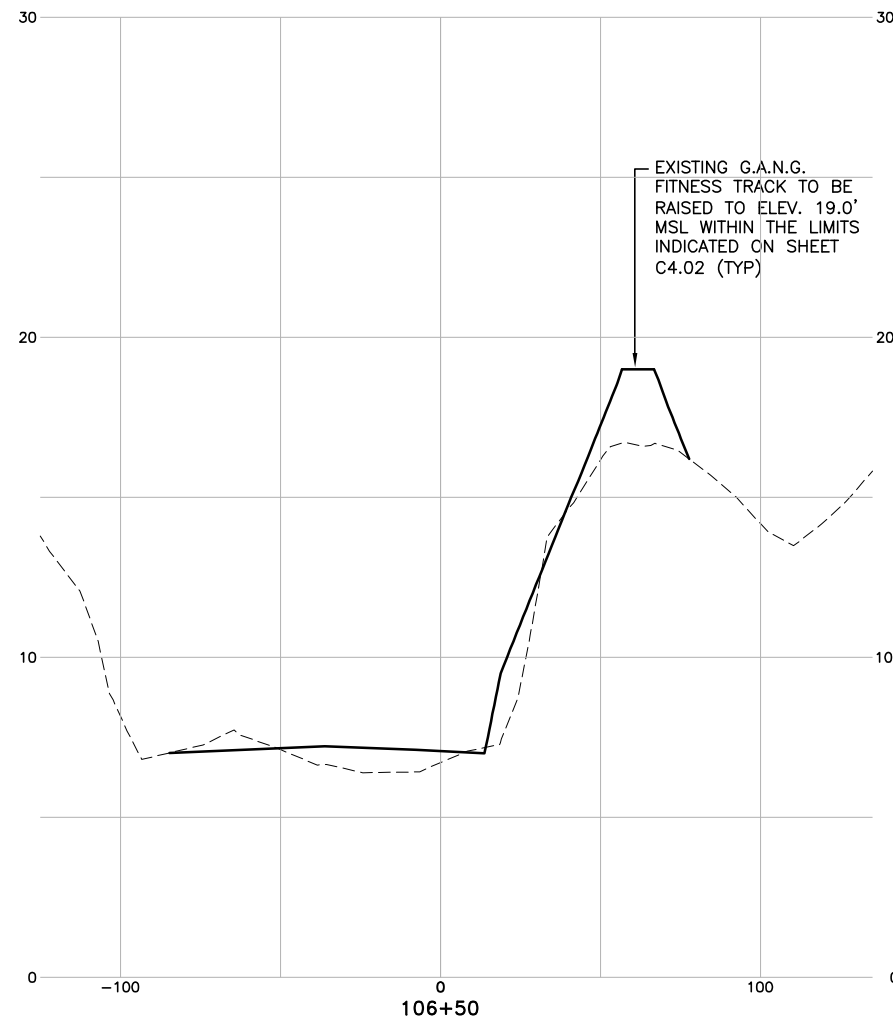
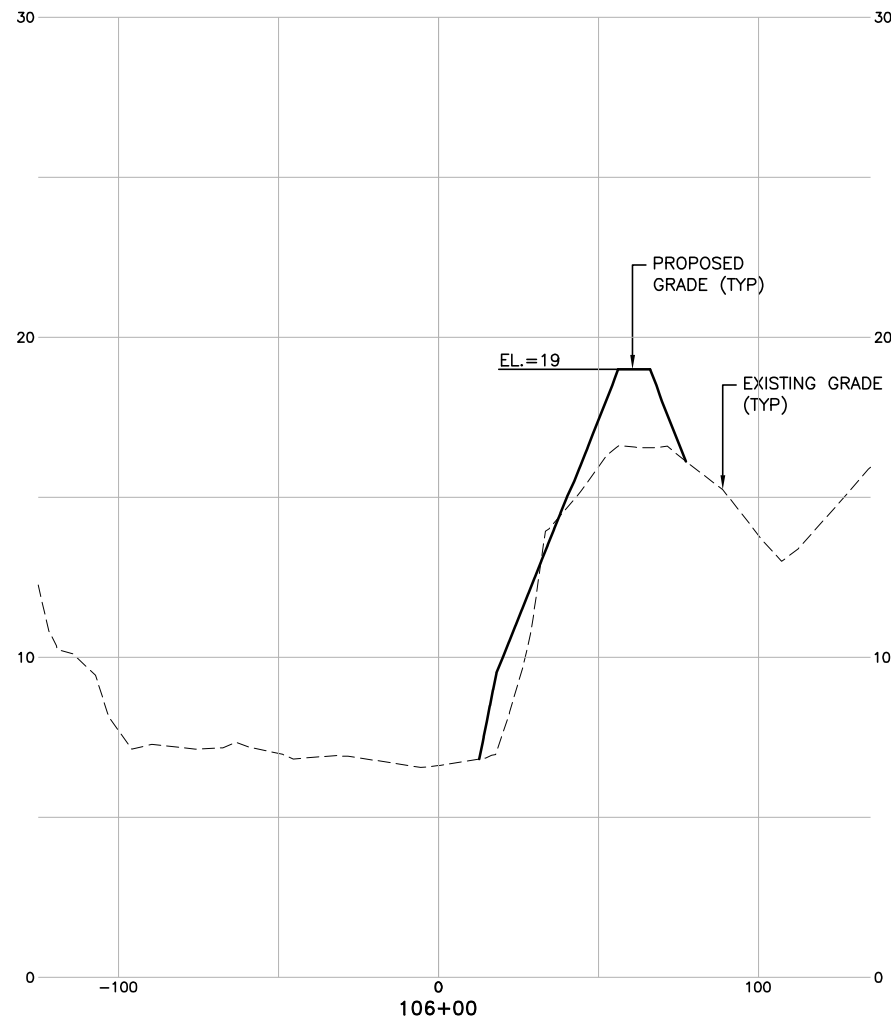
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DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
G.A.N.G. POND NO. 1 CROSS SECTIONS (4)	X1.04



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

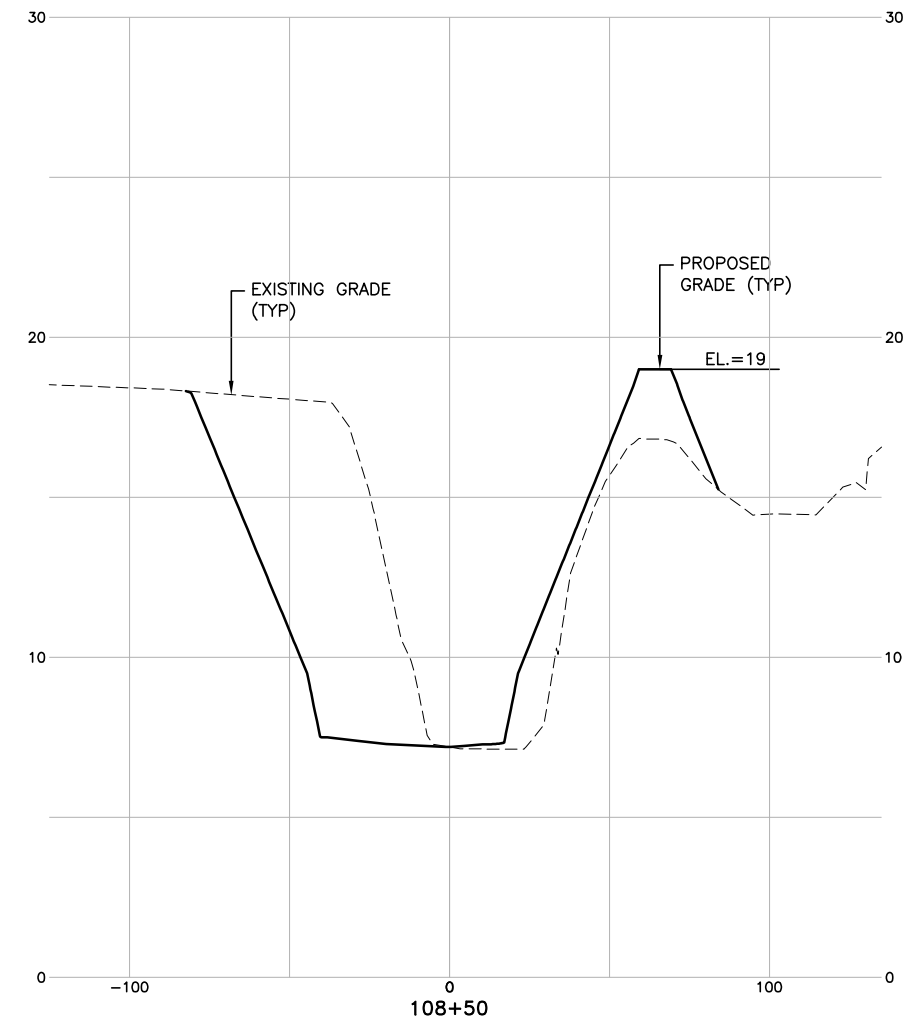
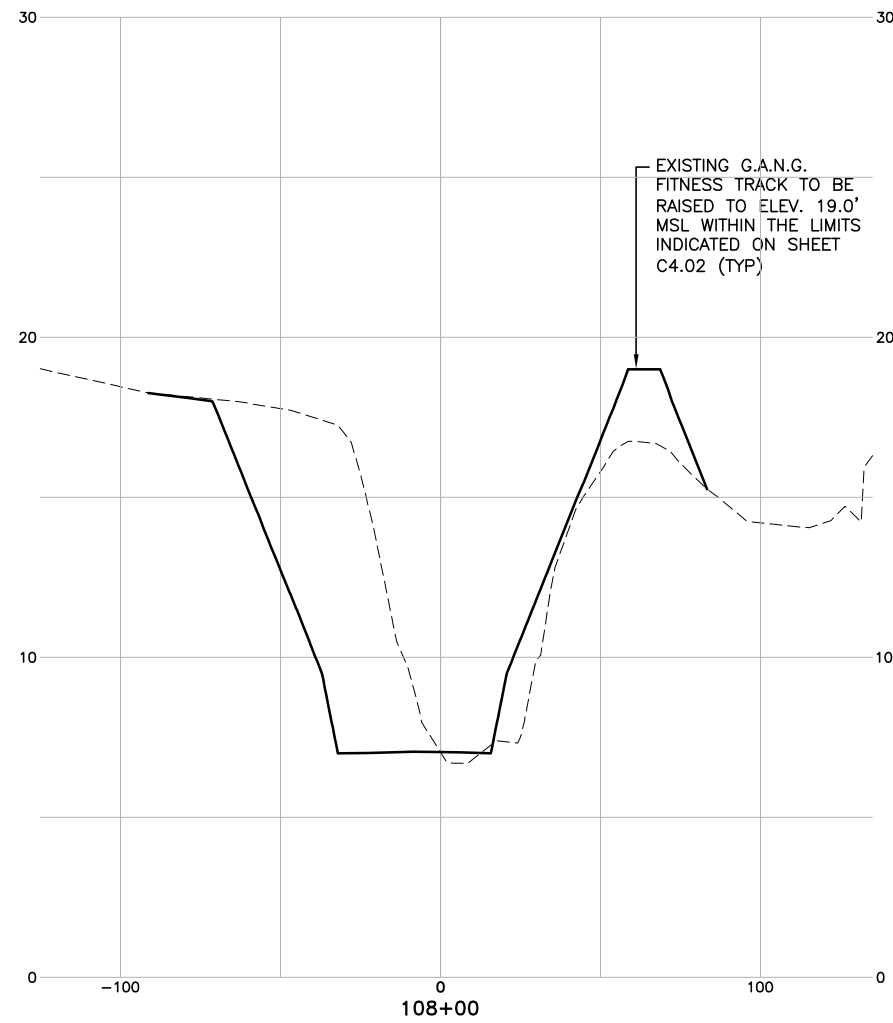
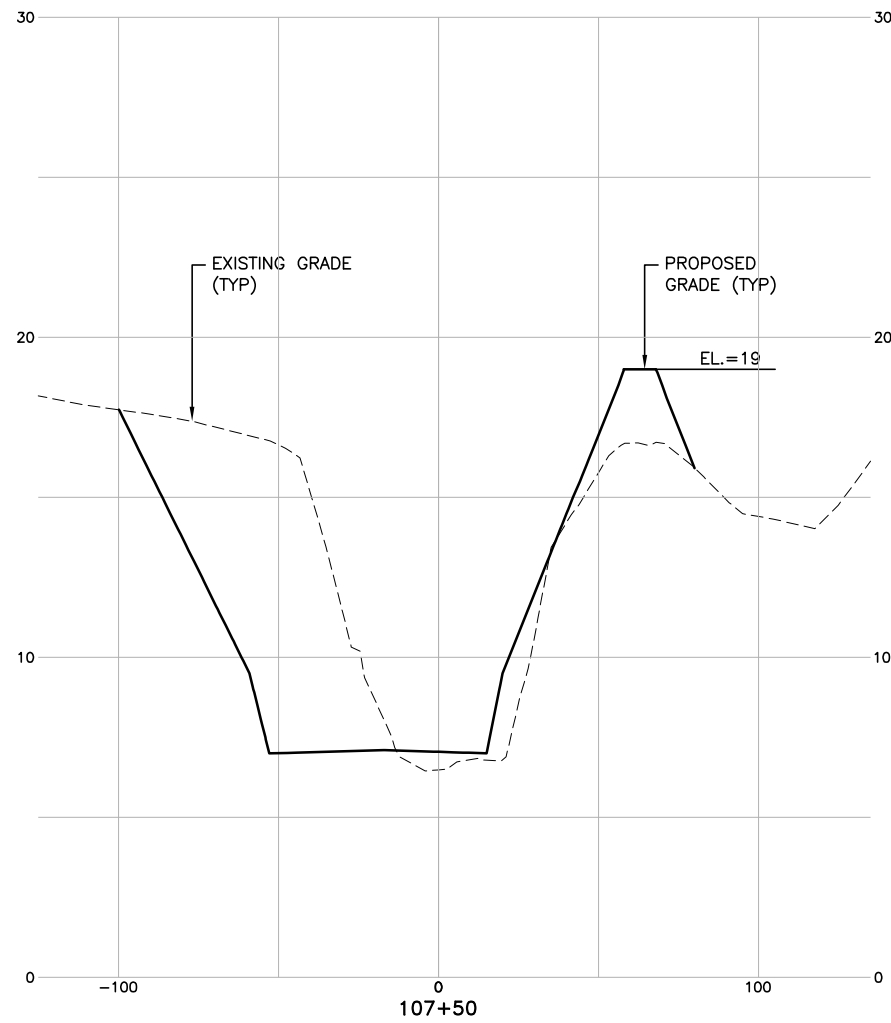


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
G.A.N.G. POND NO. 1 CROSS SECTIONS (5)	X1.05

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:15pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



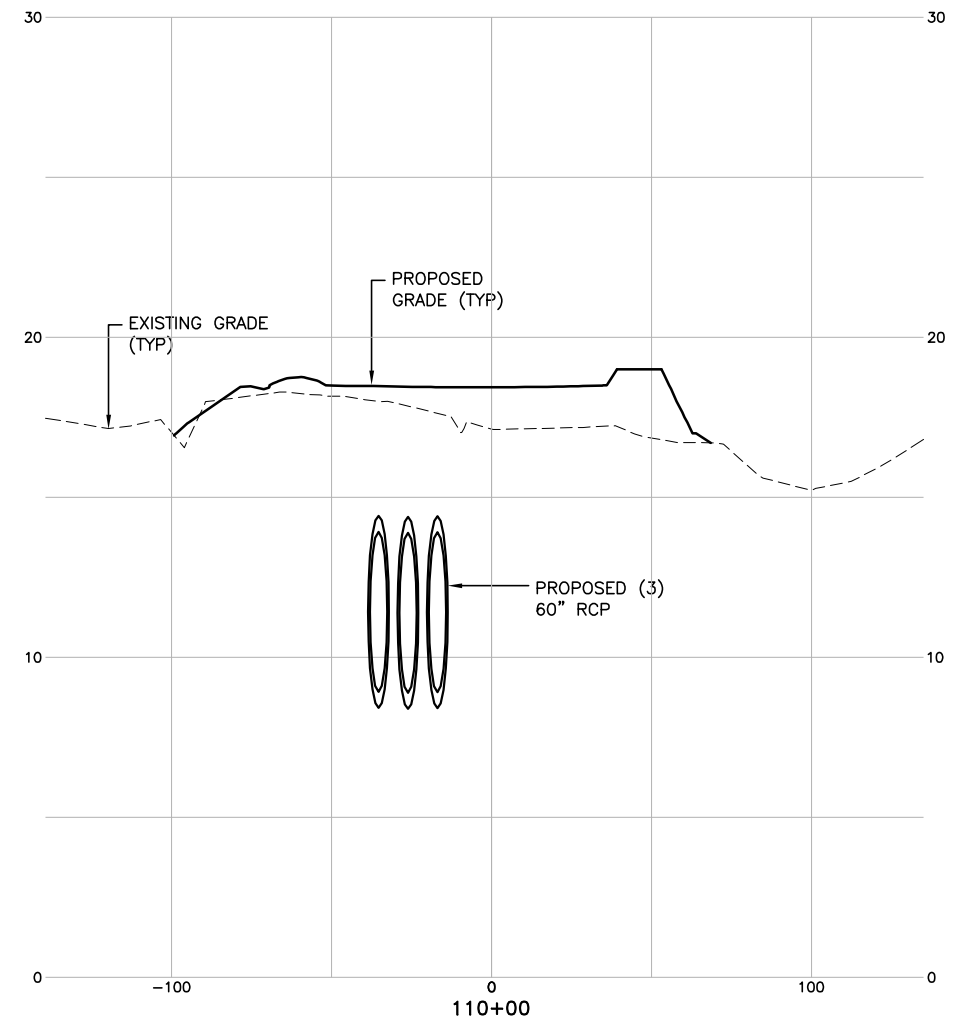
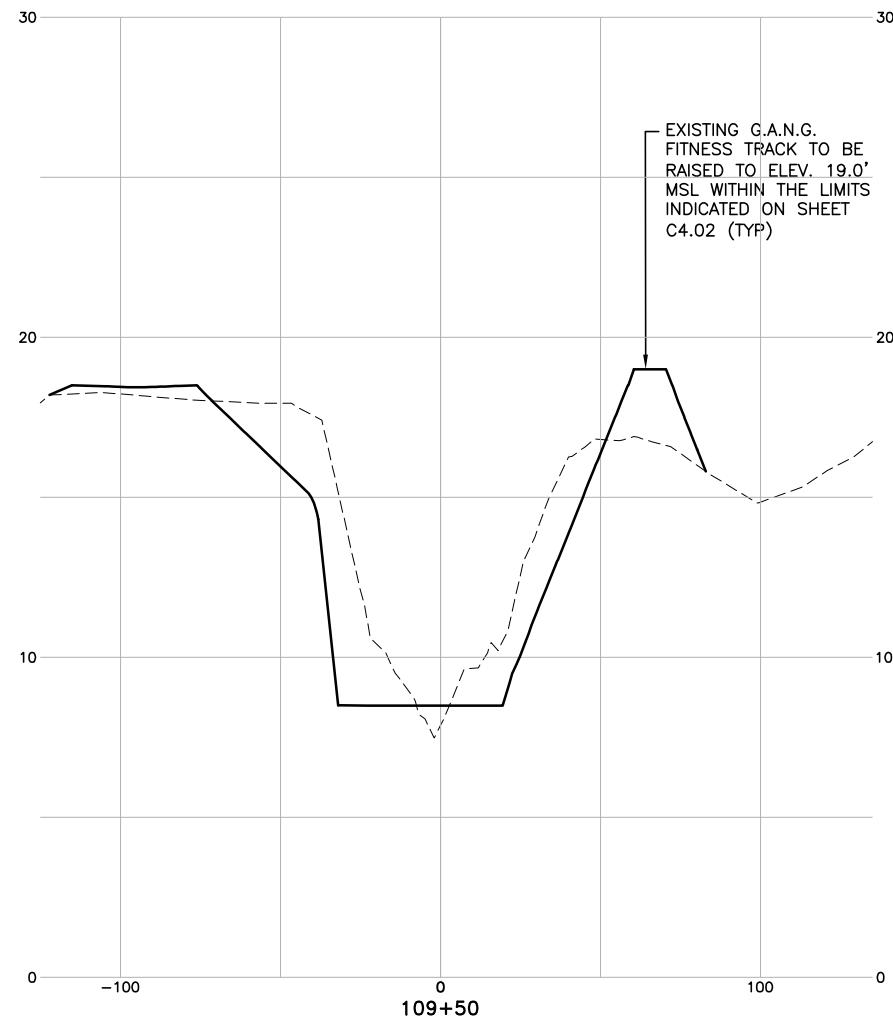
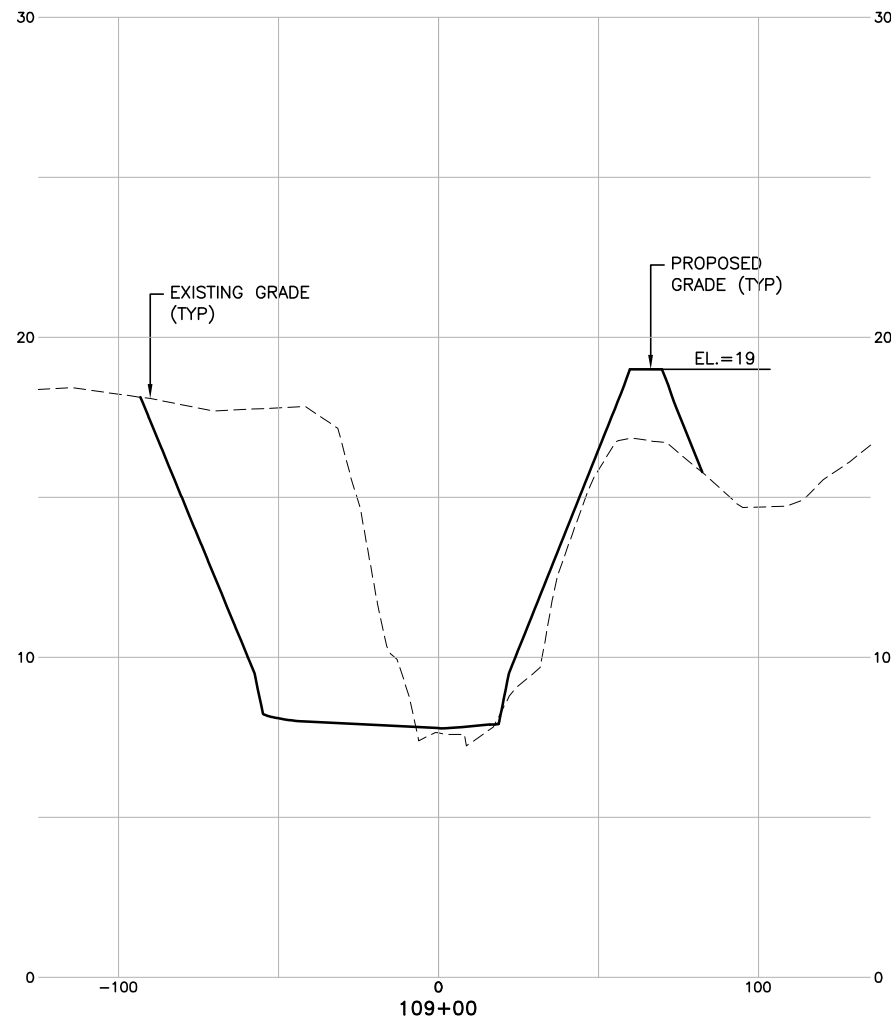
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
G.A.N.G. POND NO. 1 CROSS SECTIONS (6)	X1.06



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\X1-01-08 XSEC POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley



THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

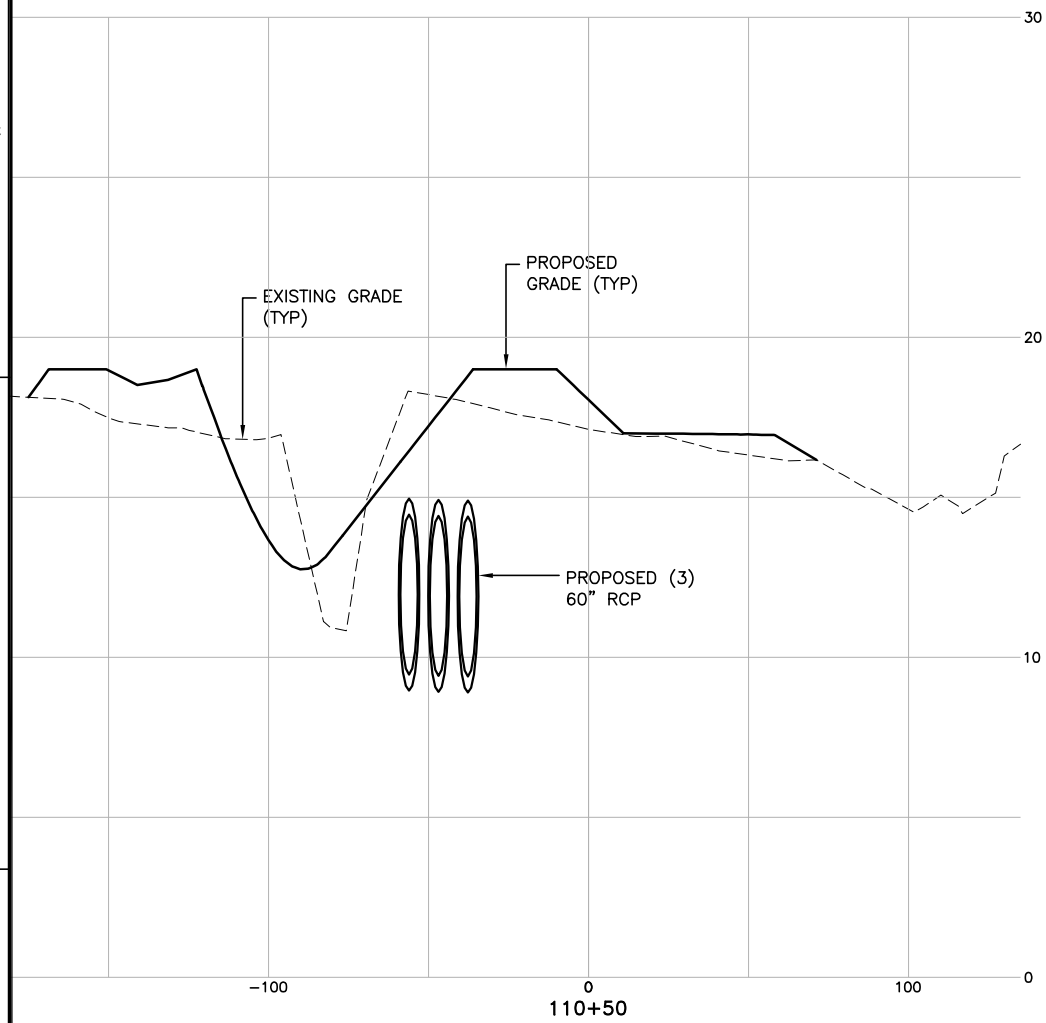
SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
G.A.N.G. POND NO. 1 CROSS SECTIONS (7)	X1.07

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\900-Work\910\_CAD\20-SHEETS\X1-01-08\_XSEC\_POND 1.dwg PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS ARE LOCATED AT THE EXISTING G.A.N.G. WET DETENTION POND NO. 1 AND FITNESS TRACK

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

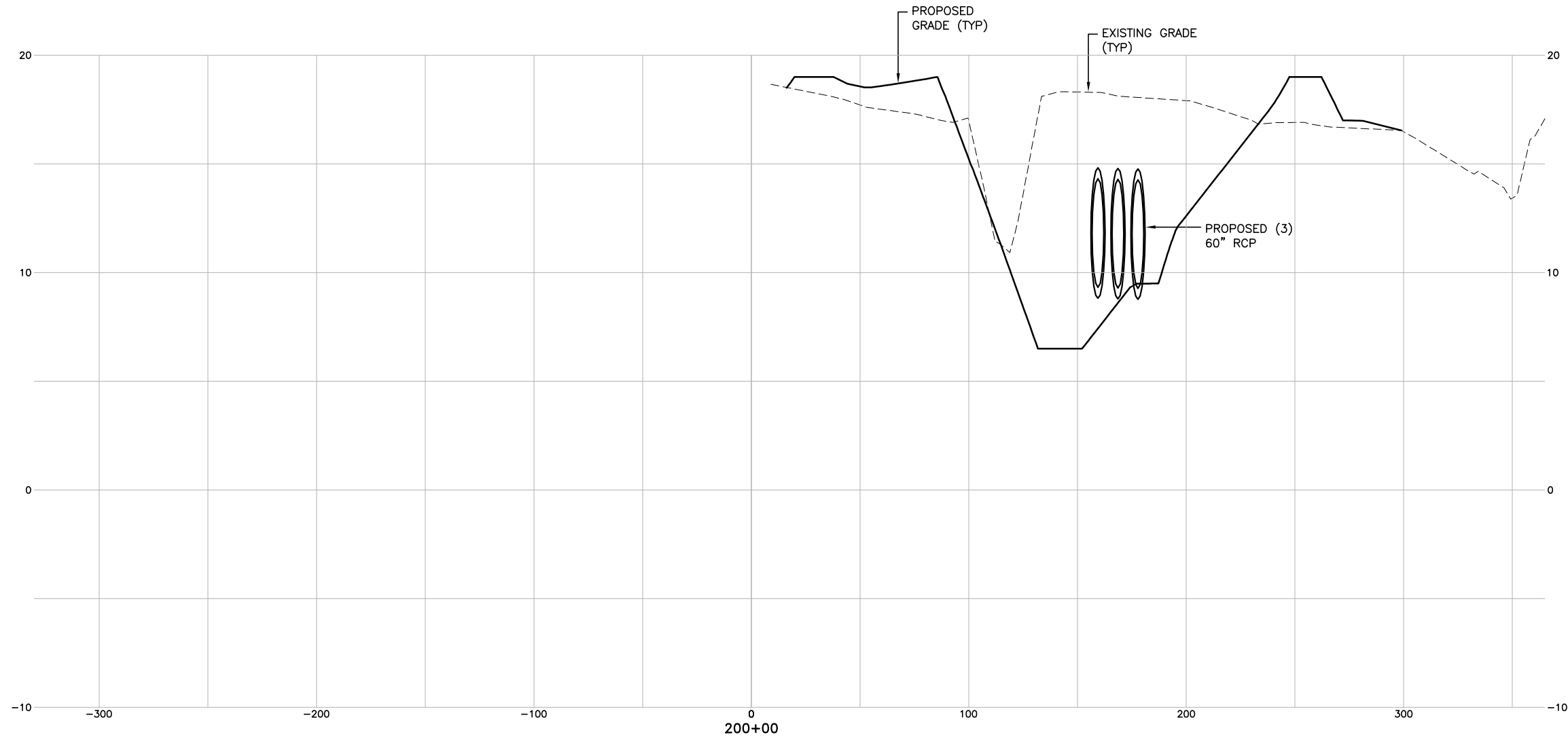
SHEET TITLE	G.A.N.G. POND NO. 1 CROSS SECTIONS (8)	SHEET NO.	X1.08
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FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23\_XSEC\_POND.dwg LAYOUT NAME: X2-01 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

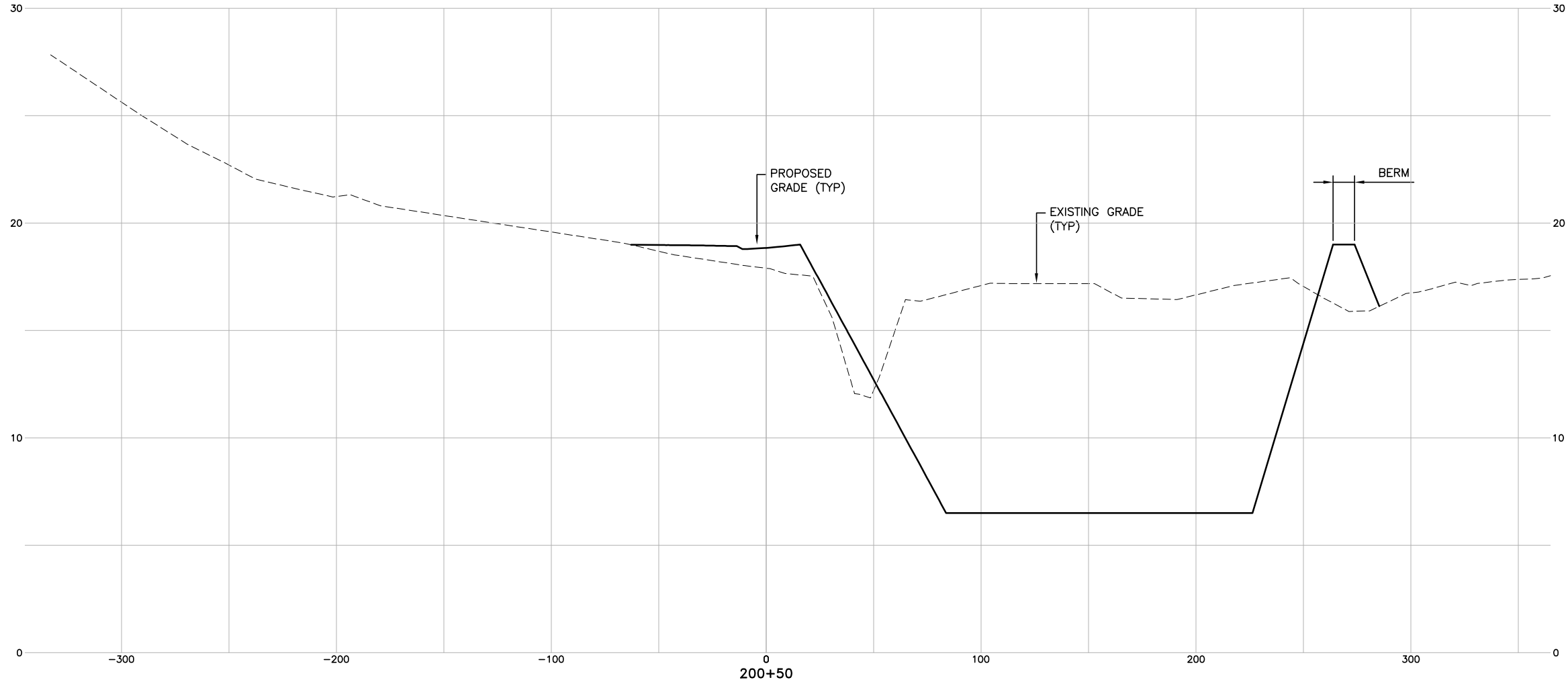
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (1)</b>	<b>X2.01</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDmg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-02 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

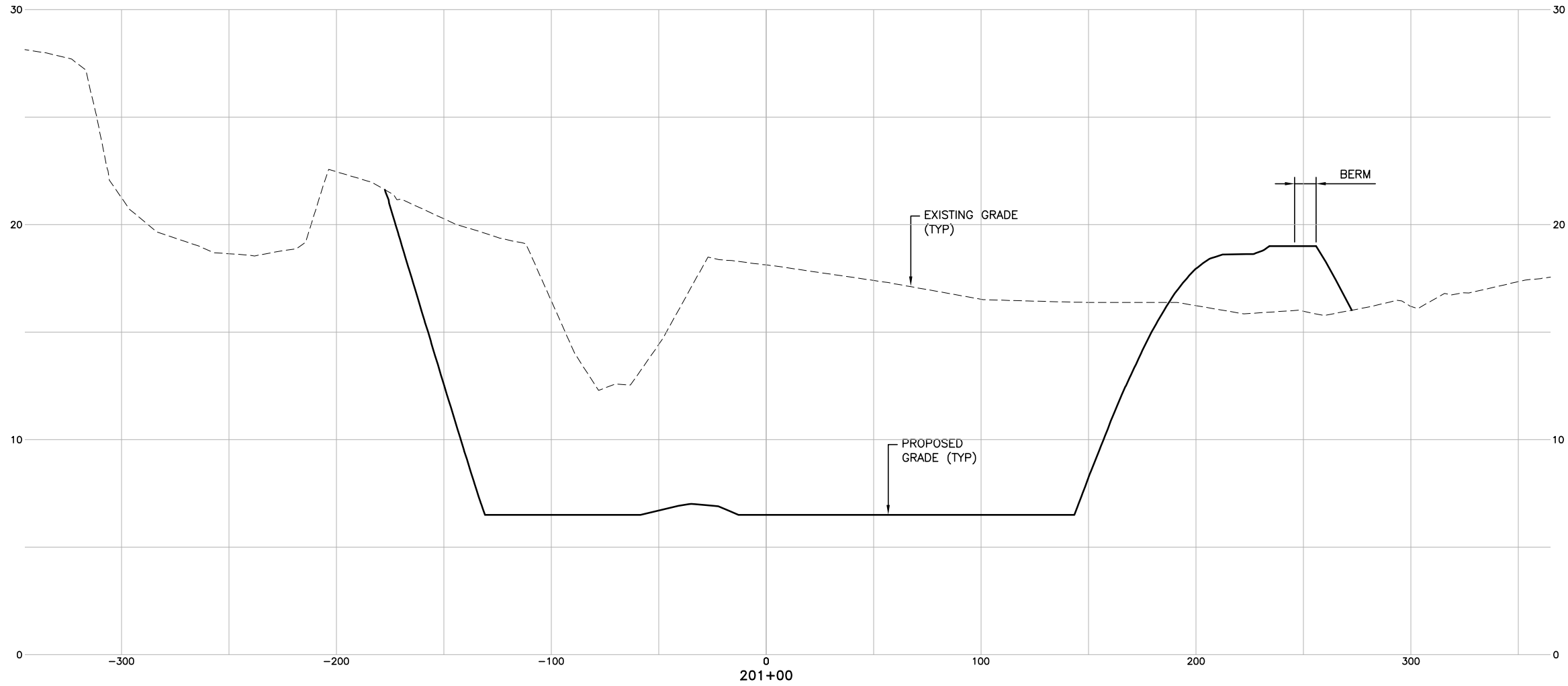
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>WET DETENTION POND NO. 2 CROSS SECTIONS (2)</b>	SHEET NO. <b>X2.02</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-03 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
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CHK. BY:	SGH
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SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

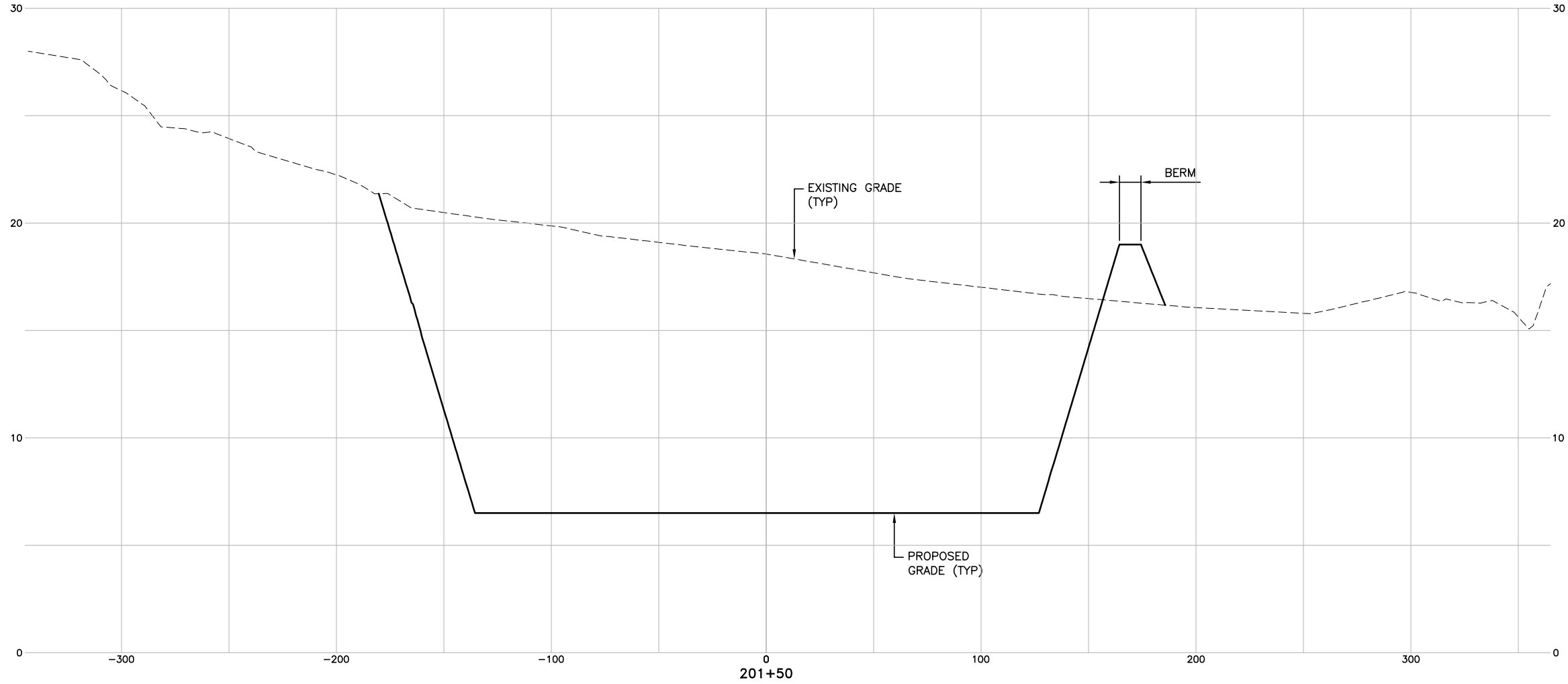
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (3)</b>	<b>X2.03</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-04 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

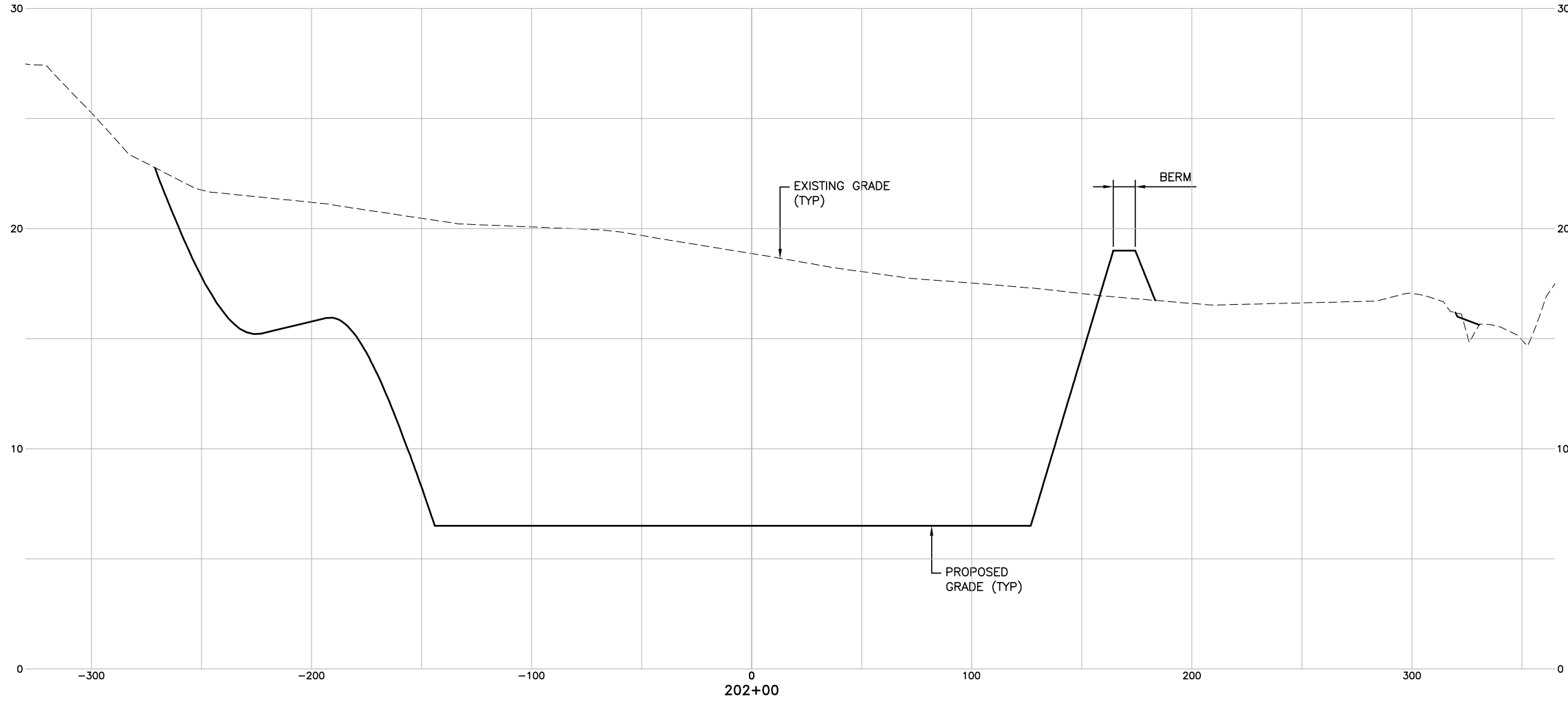
SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (4)</b>	<b>X2.04</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23\_XSEC\_POND 2.dwg LAYOUT NAME: X2-05 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

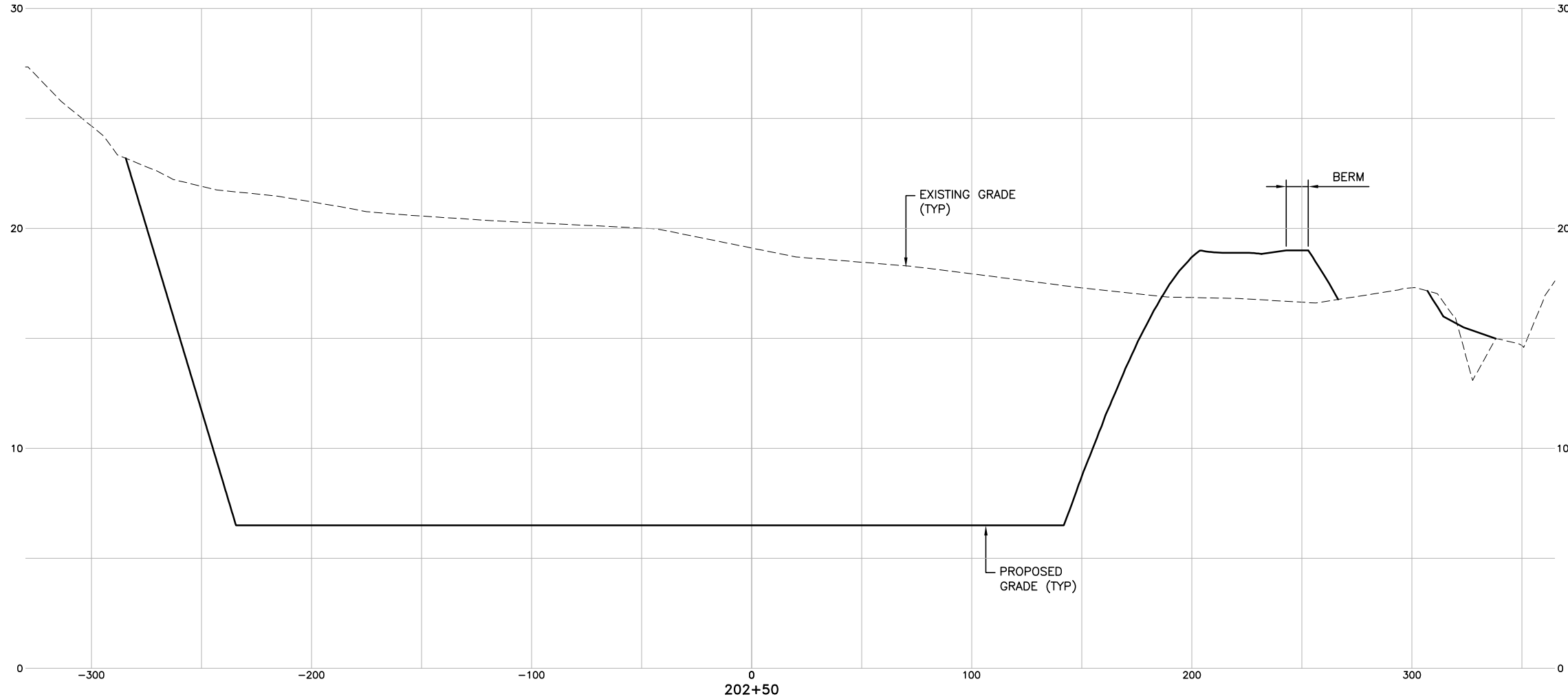
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (5)</b>	<b>X2.05</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-06 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
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CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

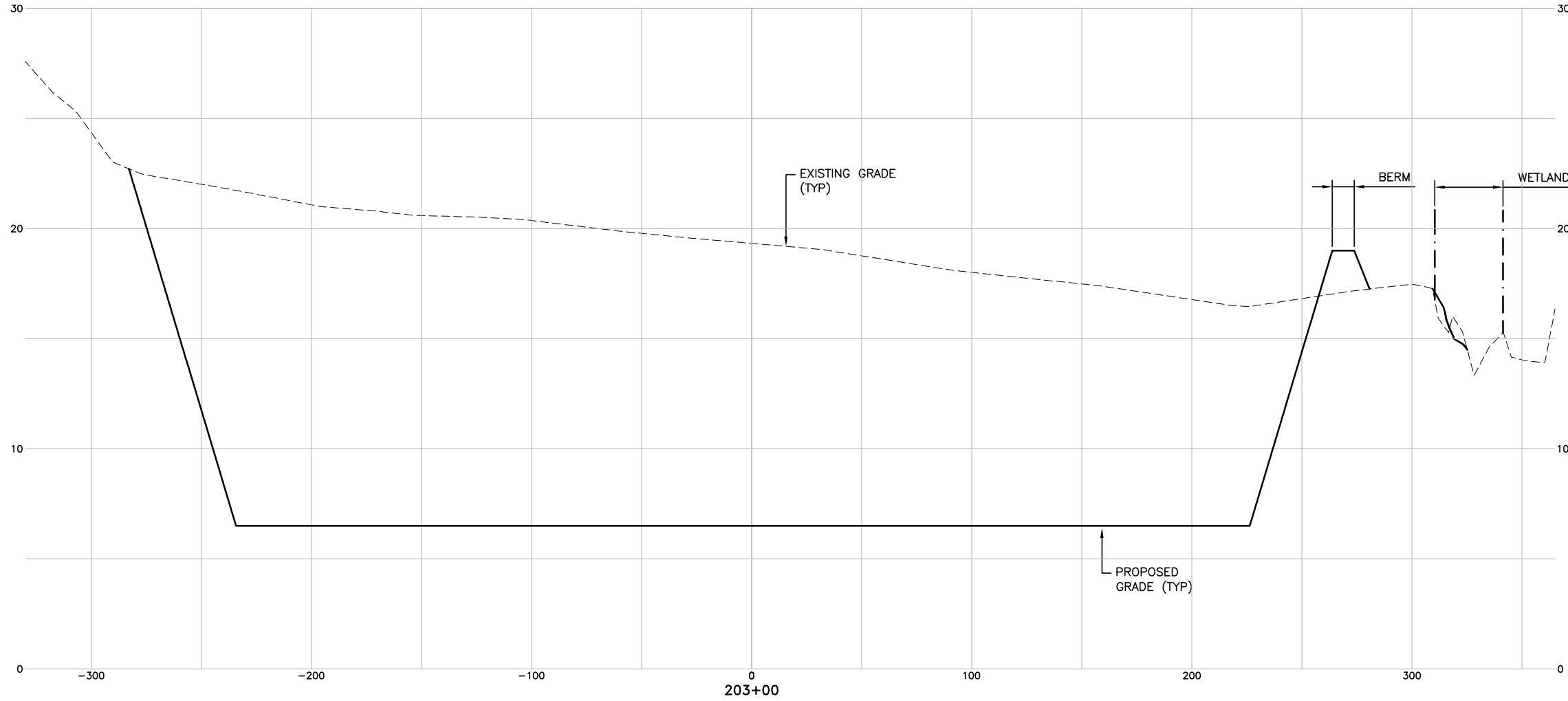
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>WET DETENTION POND NO. 2 CROSS SECTIONS (6)</b>	SHEET NO. <b>X2.06</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-07 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



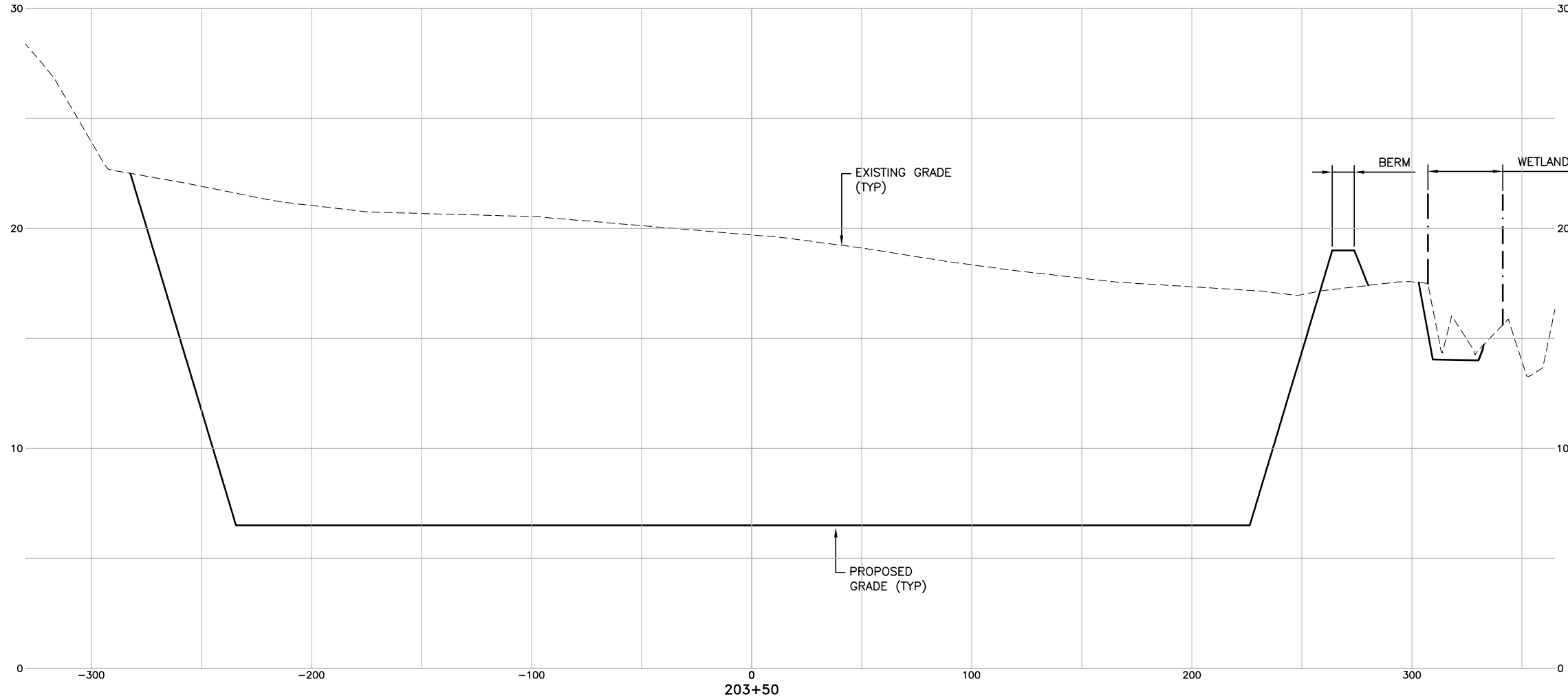
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DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (7)</b>	<b>X2.07</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-08 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

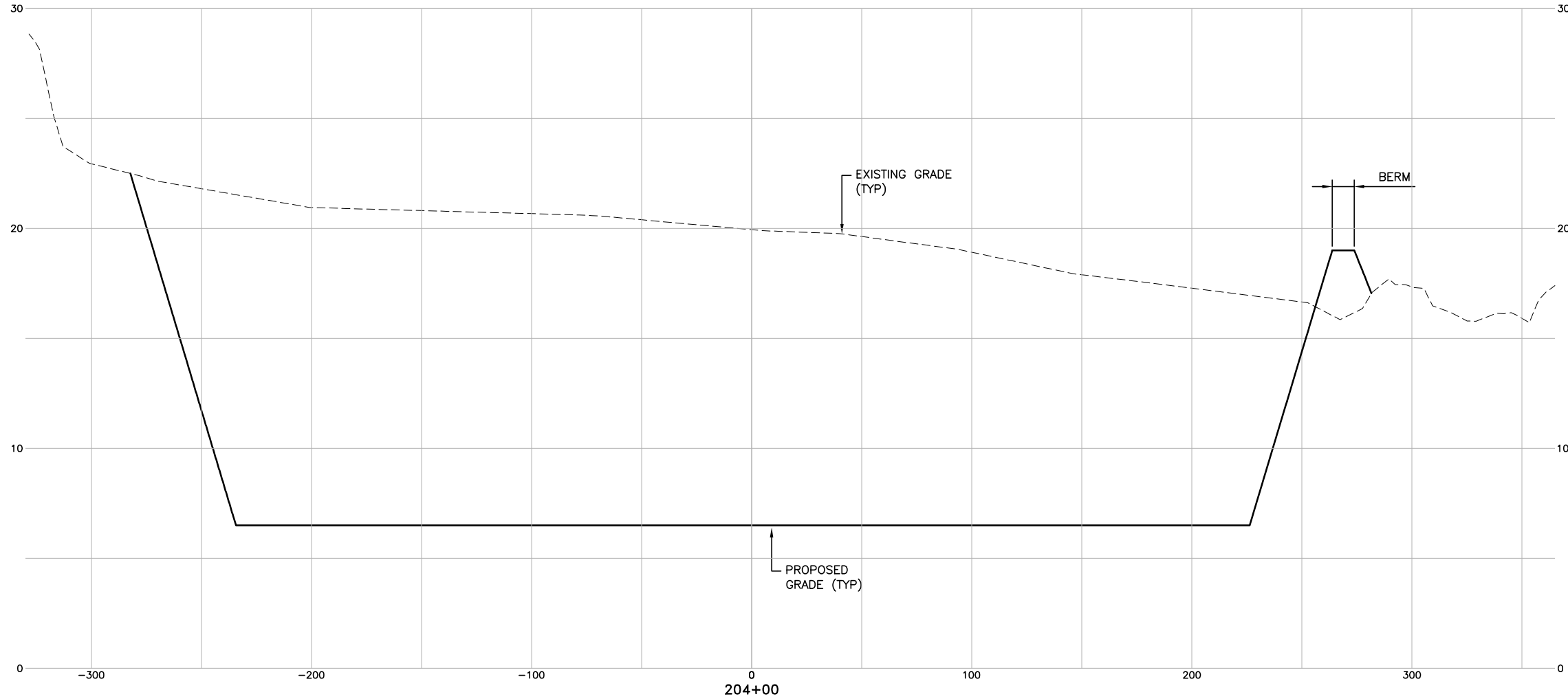
SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (8)</b>	<b>X2.08</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-09 PLOTTED: Thursday, February 25, 2021 - 2:16pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

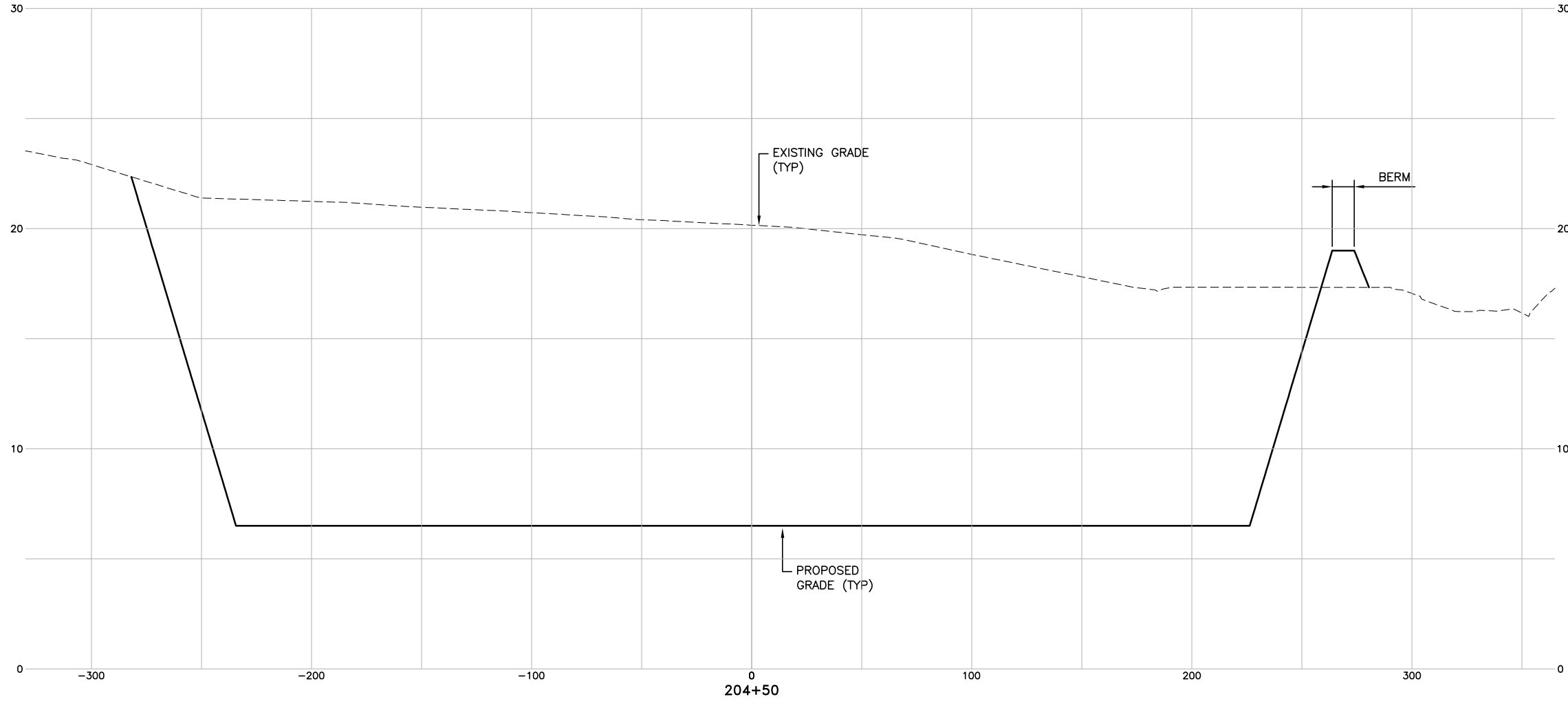
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (9)	X2.09

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-10 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

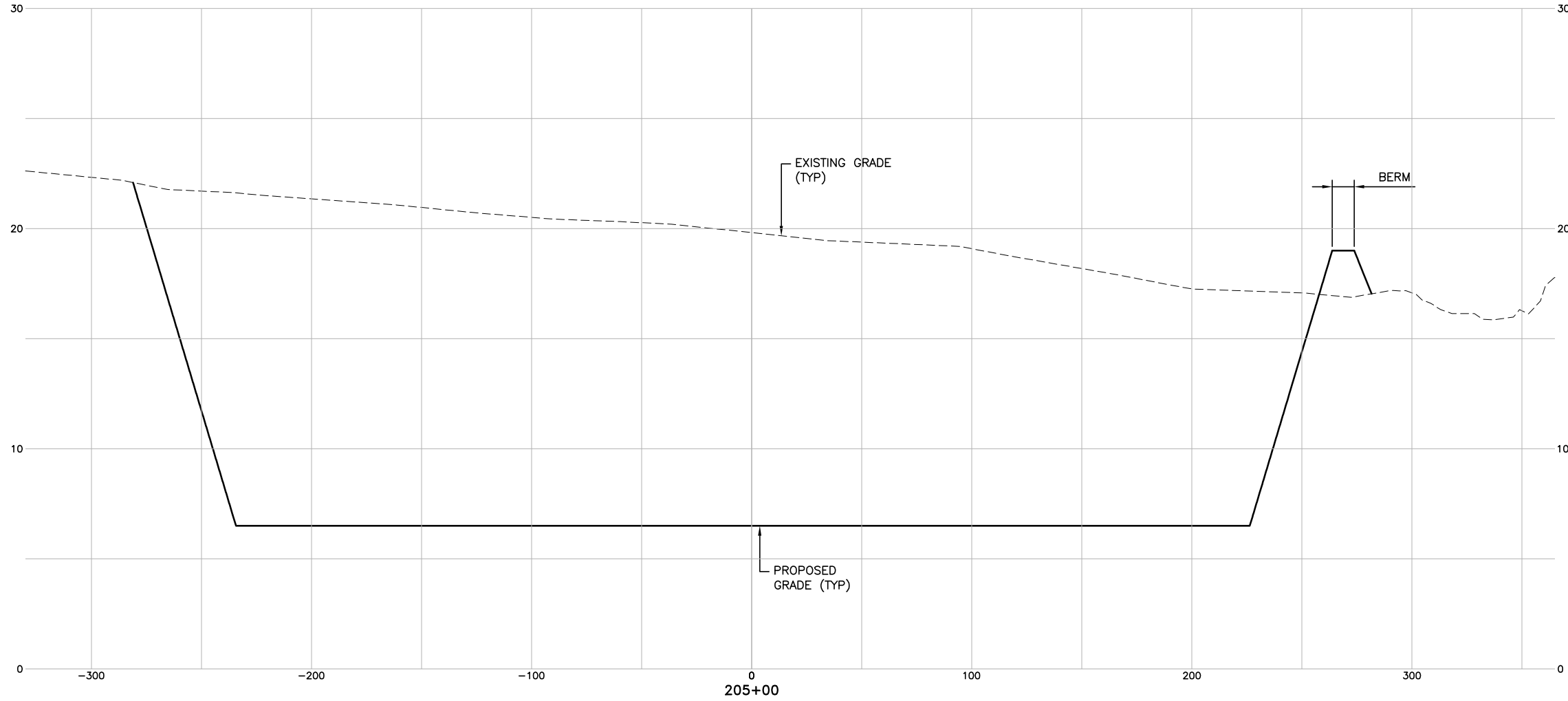
SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (10)</b>	<b>X2.10</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-11 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

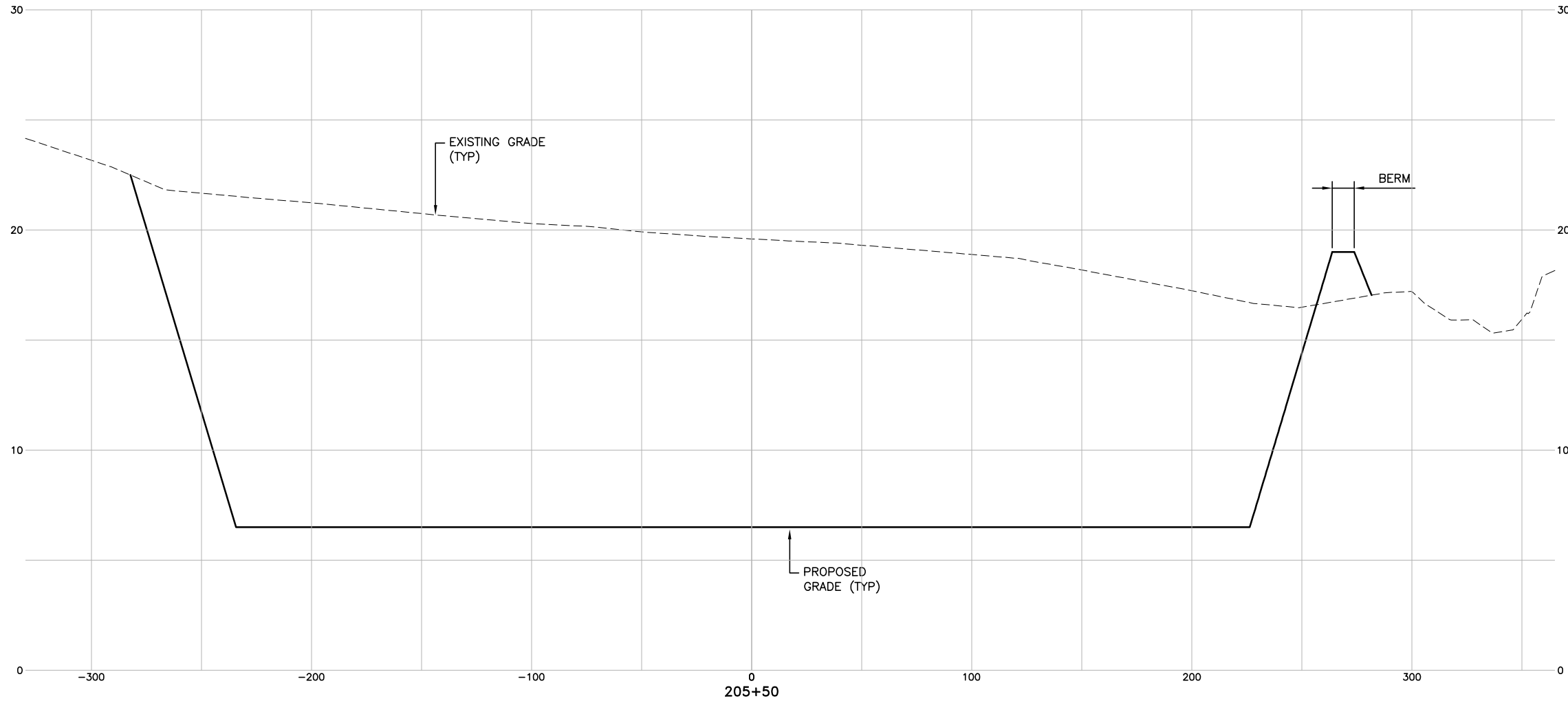
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (11)	X2.11

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-12 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

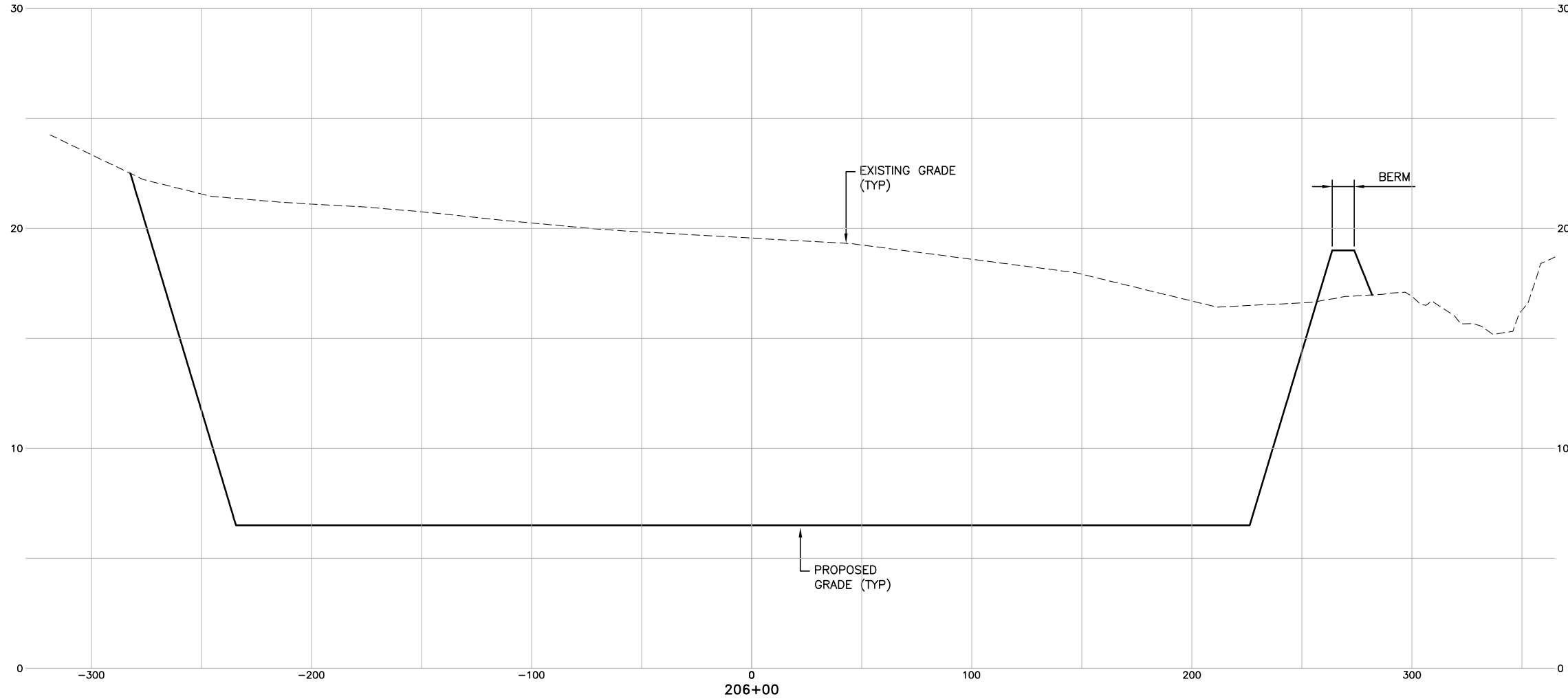
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<b>WET DETENTION POND NO. 2 CROSS SECTIONS (12)</b>	<b>X2.12</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-13 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

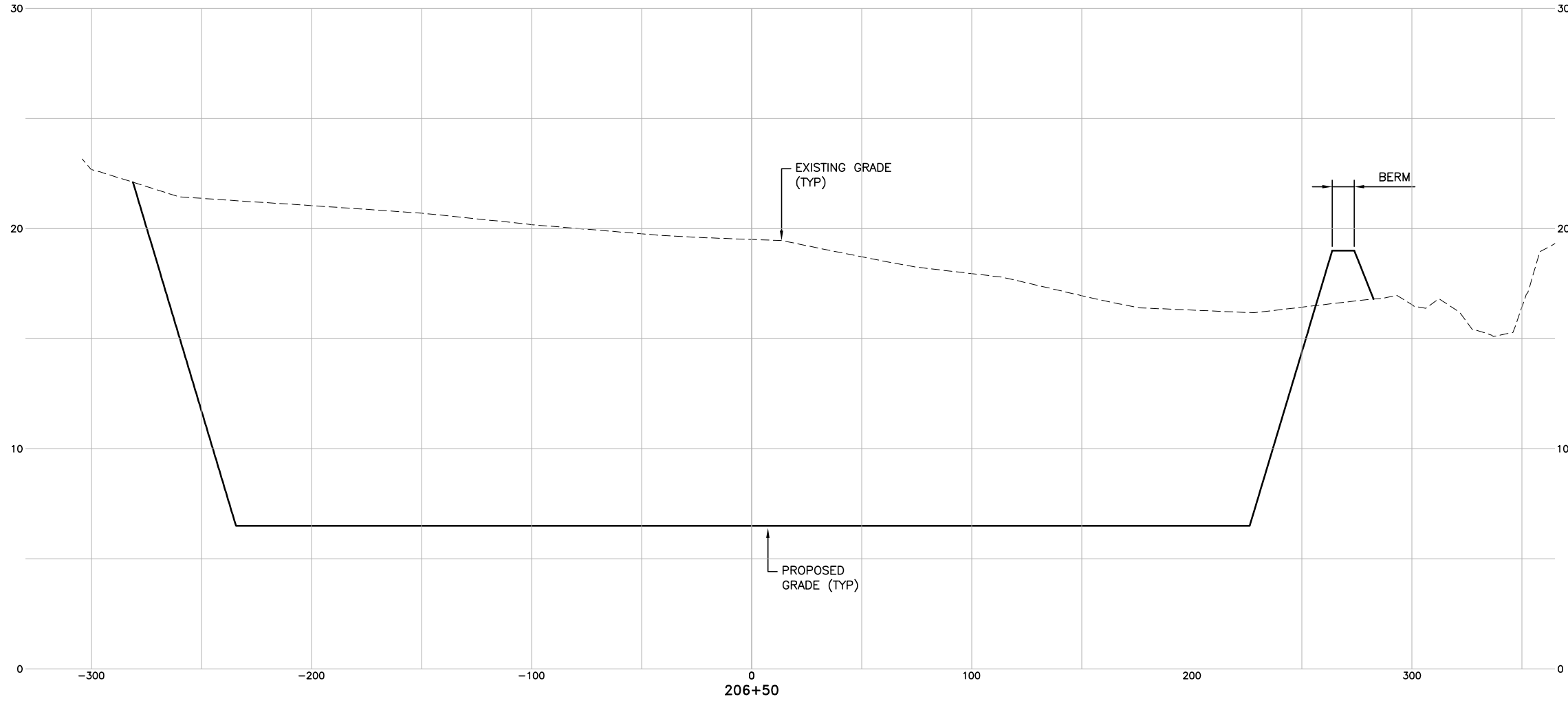
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (13)</b>	<b>X2.13</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-14 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

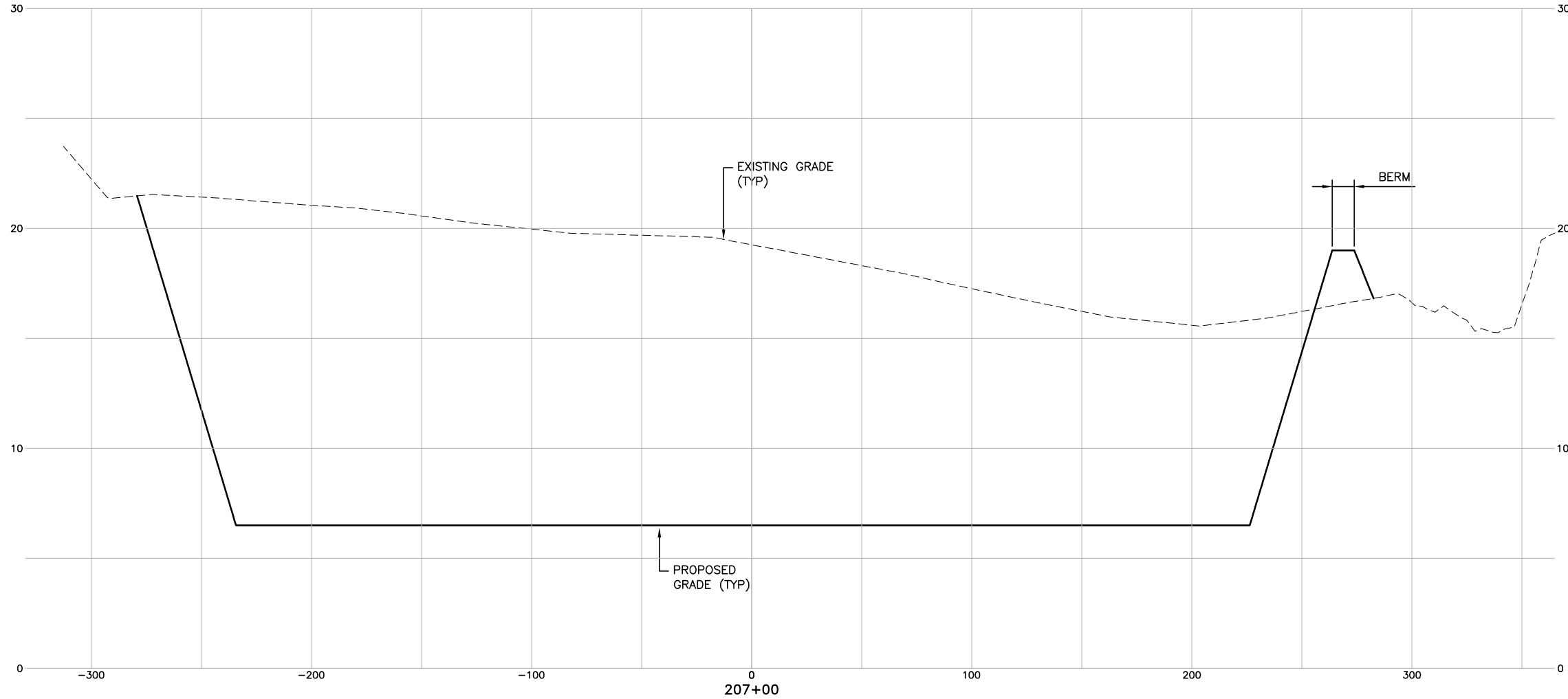
<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (14)</b>	<b>X2.14</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-15 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

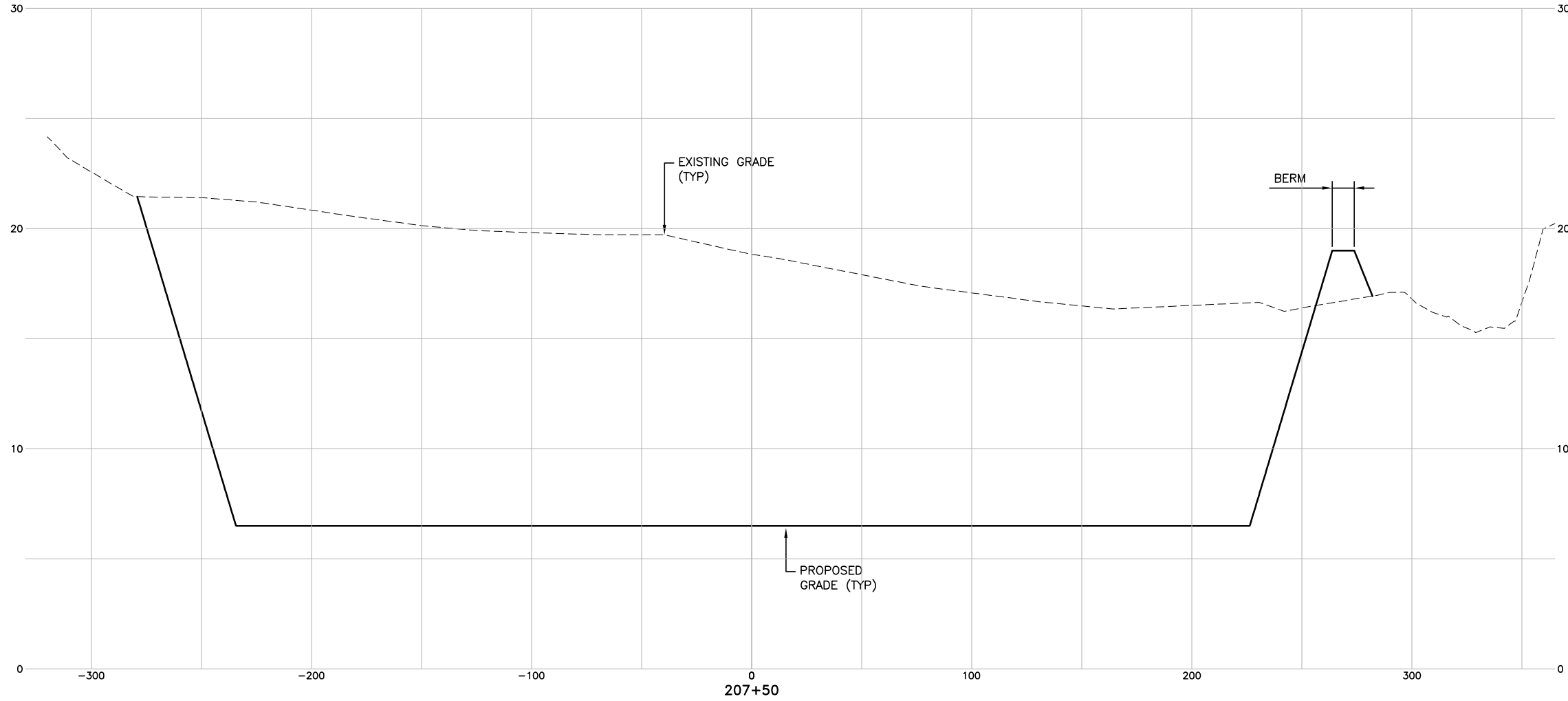
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (15)	X2.15

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-16 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

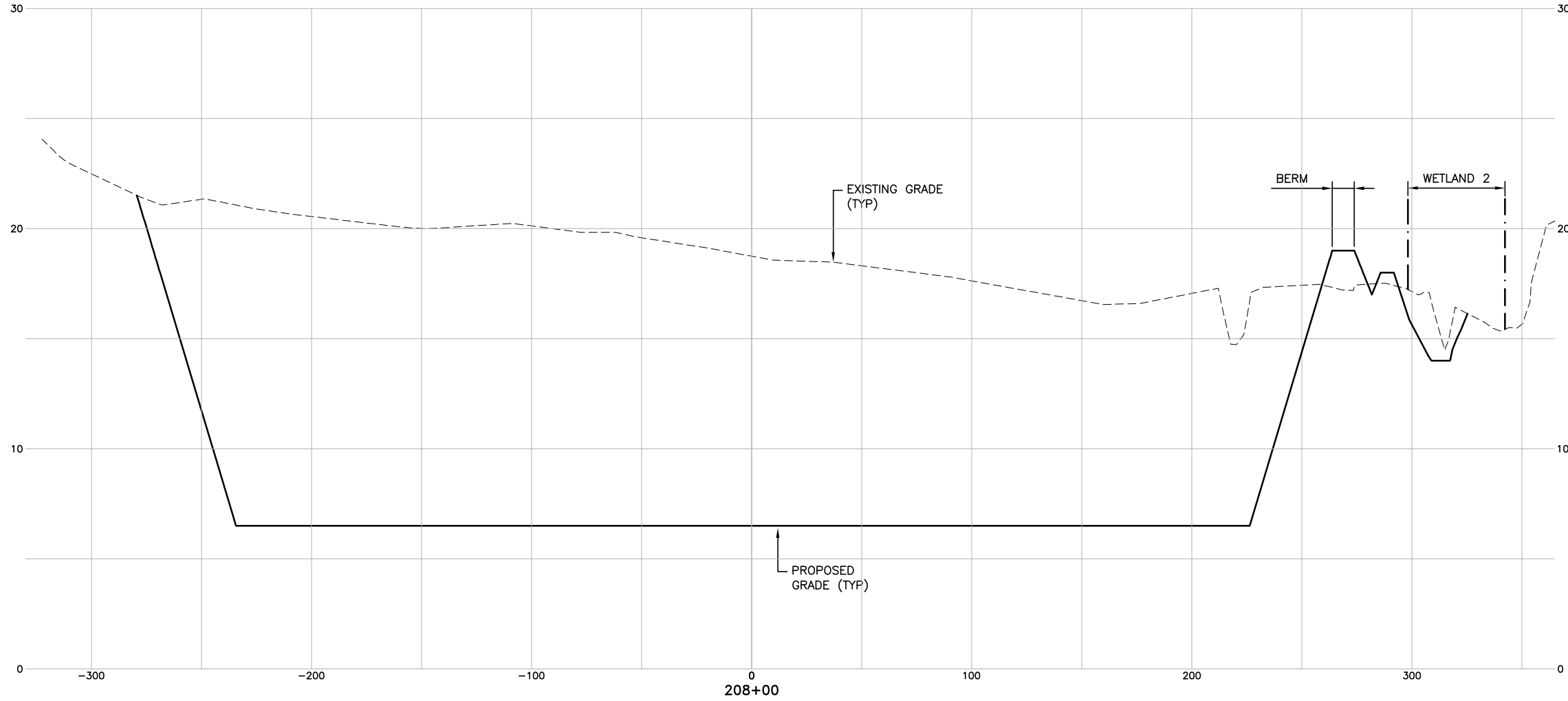
SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (16)	X2.16



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-17 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

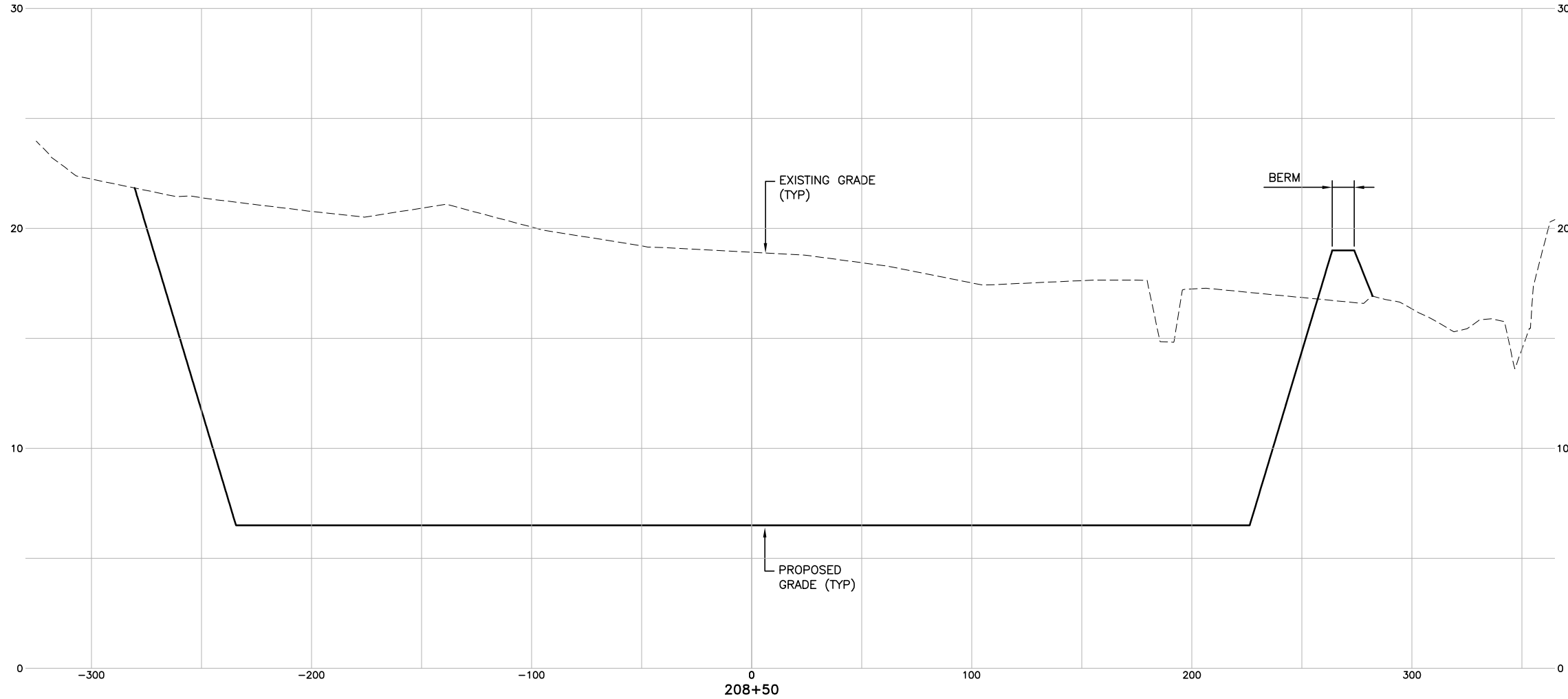
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
<b>WET DETENTION POND NO. 2 CROSS SECTIONS (17)</b>	<b>X2.17</b>

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-18 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

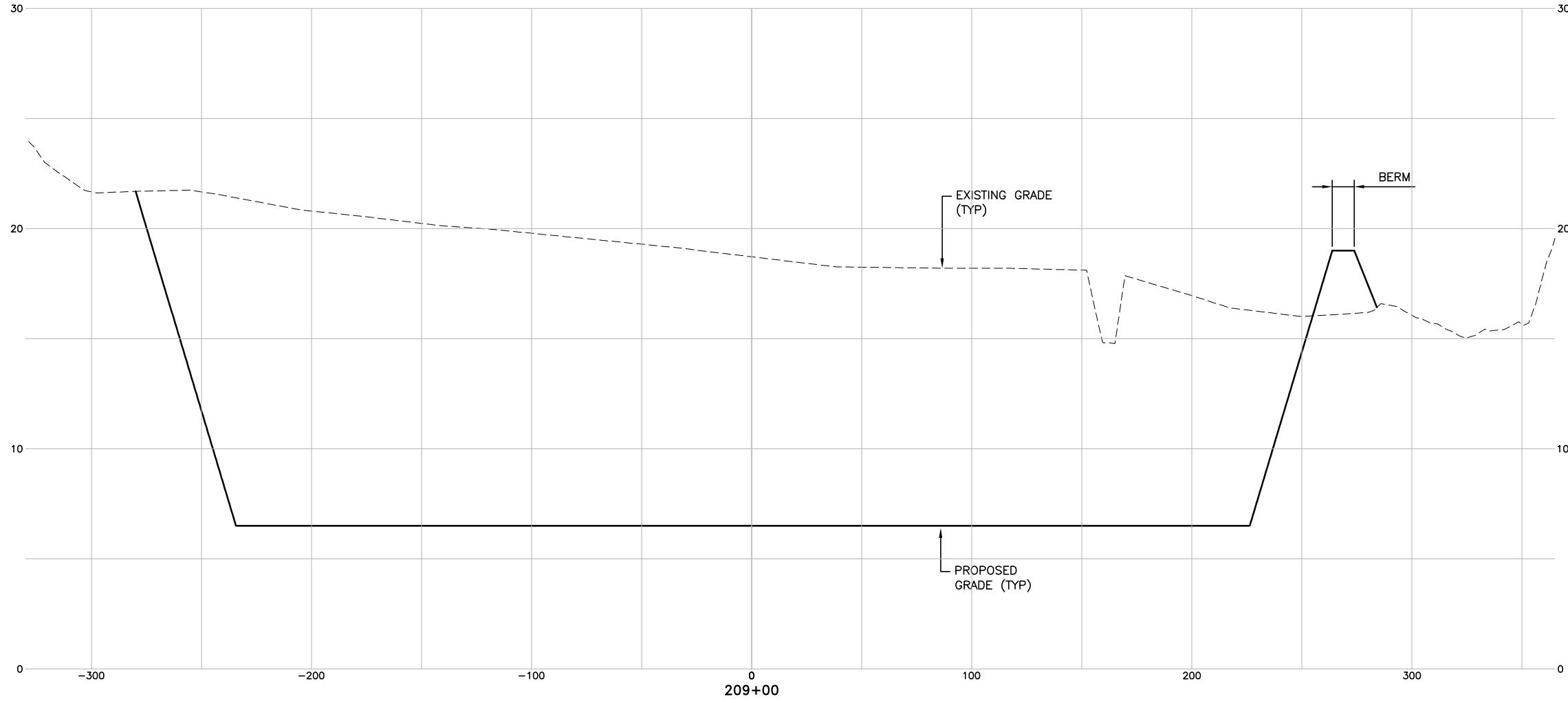
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<b>WET DETENTION POND NO. 2 CROSS SECTIONS (18)</b>	<b>X2.18</b>



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-19 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

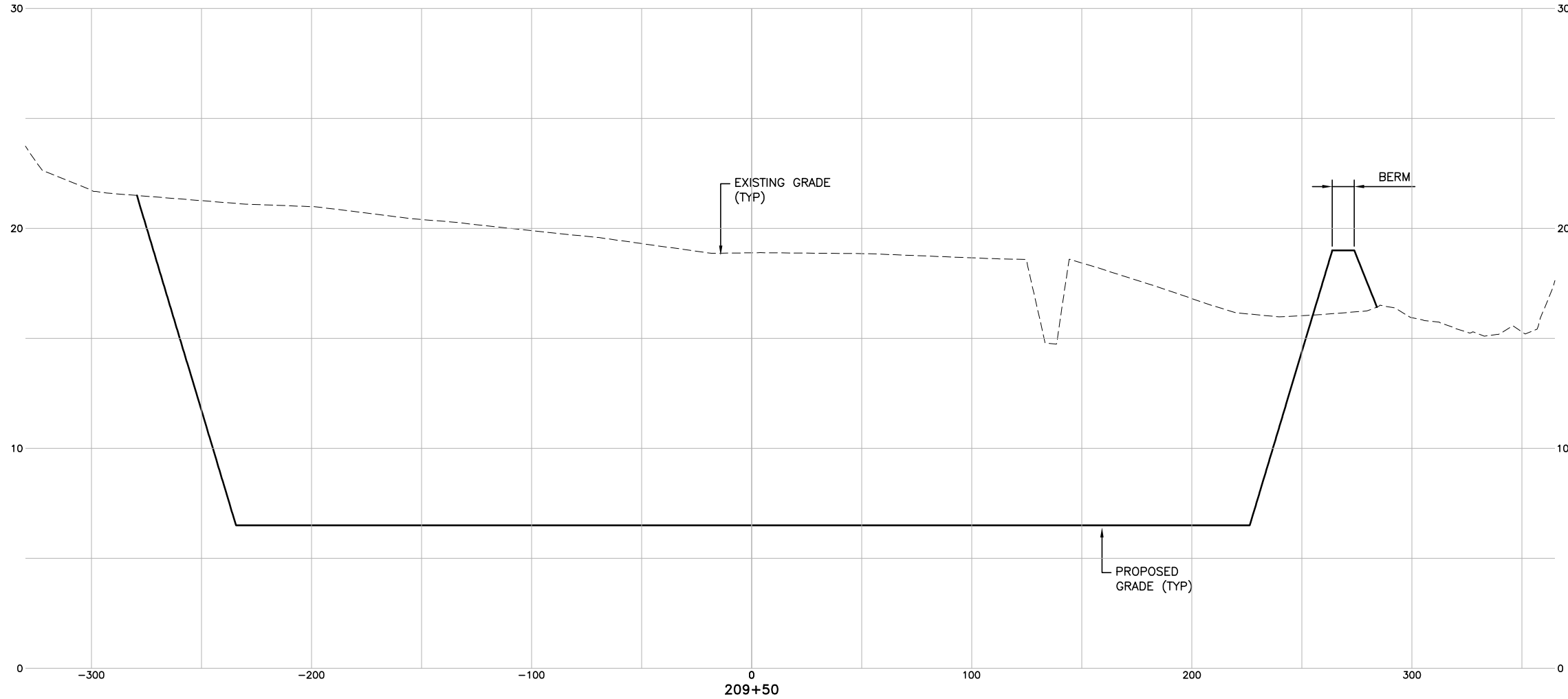
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (19)	X2.19

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-20 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

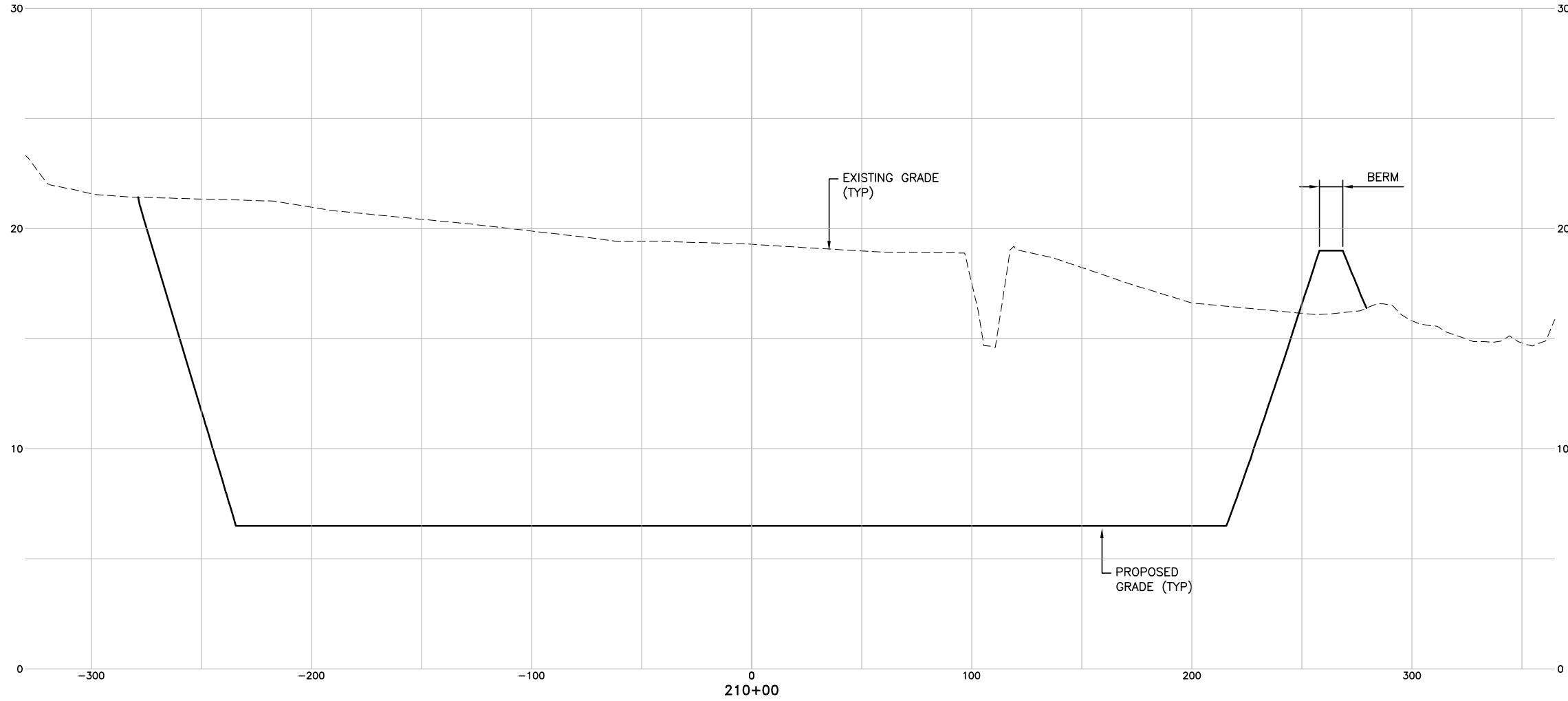
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WET DETENTION POND NO. 2 CROSS SECTIONS (20)	X2.20



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\Design\900-Work\910 CAD\20-SHEETS\2-01-23 XSEC POND 2.dwg LAYOUT NAME: X2-21 PLOTTED: Thursday, February 25, 2021 - 2:17pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

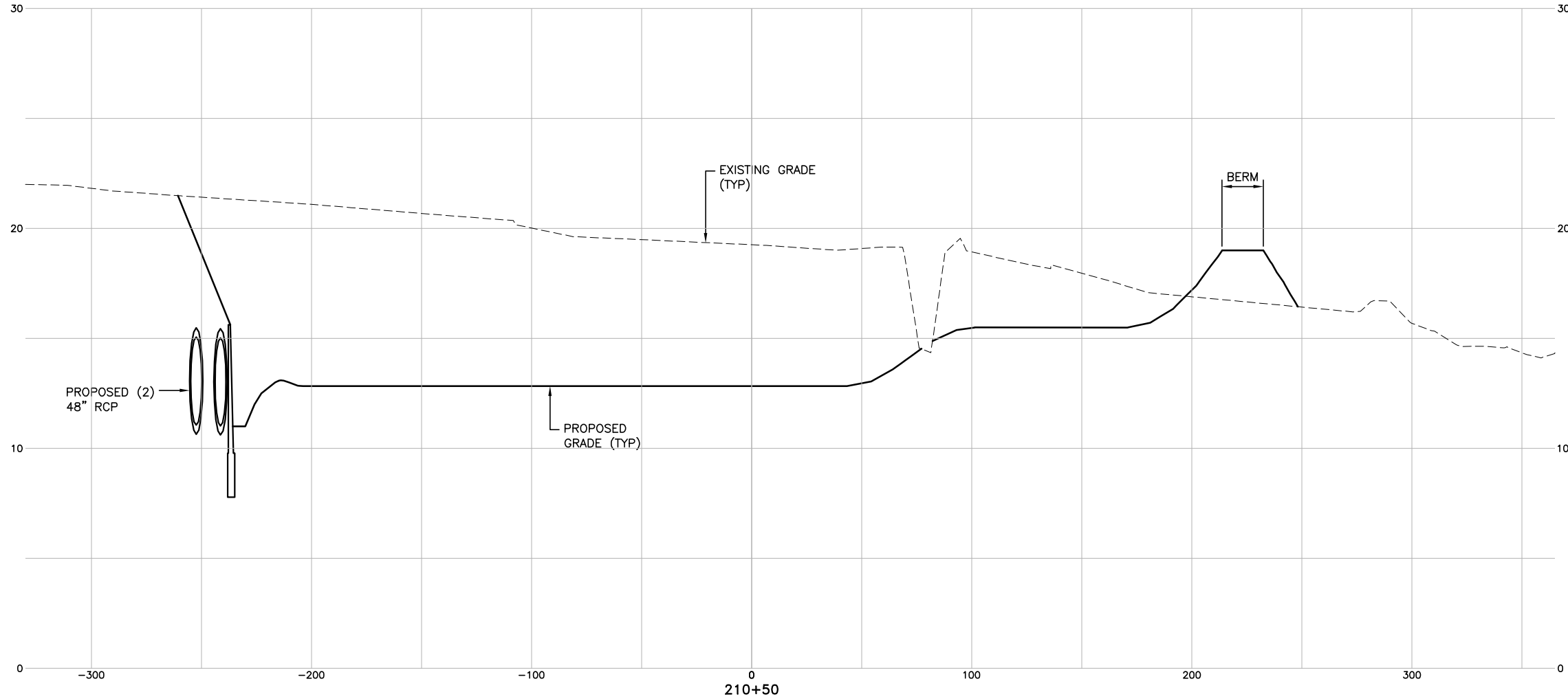
**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

SHEET TITLE	SHEET NO.
WET DETENTION POND NO. 2 CROSS SECTIONS (21)	X2.21

FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadRng\Design\900-Work\910 CAD\20-SHEETS\2-01-23\_XSEC\_POND\_2.dwg LAYOUT NAME: X2-22 PLOTTED: Thursday, February 25, 2021 - 2:18pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP



PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

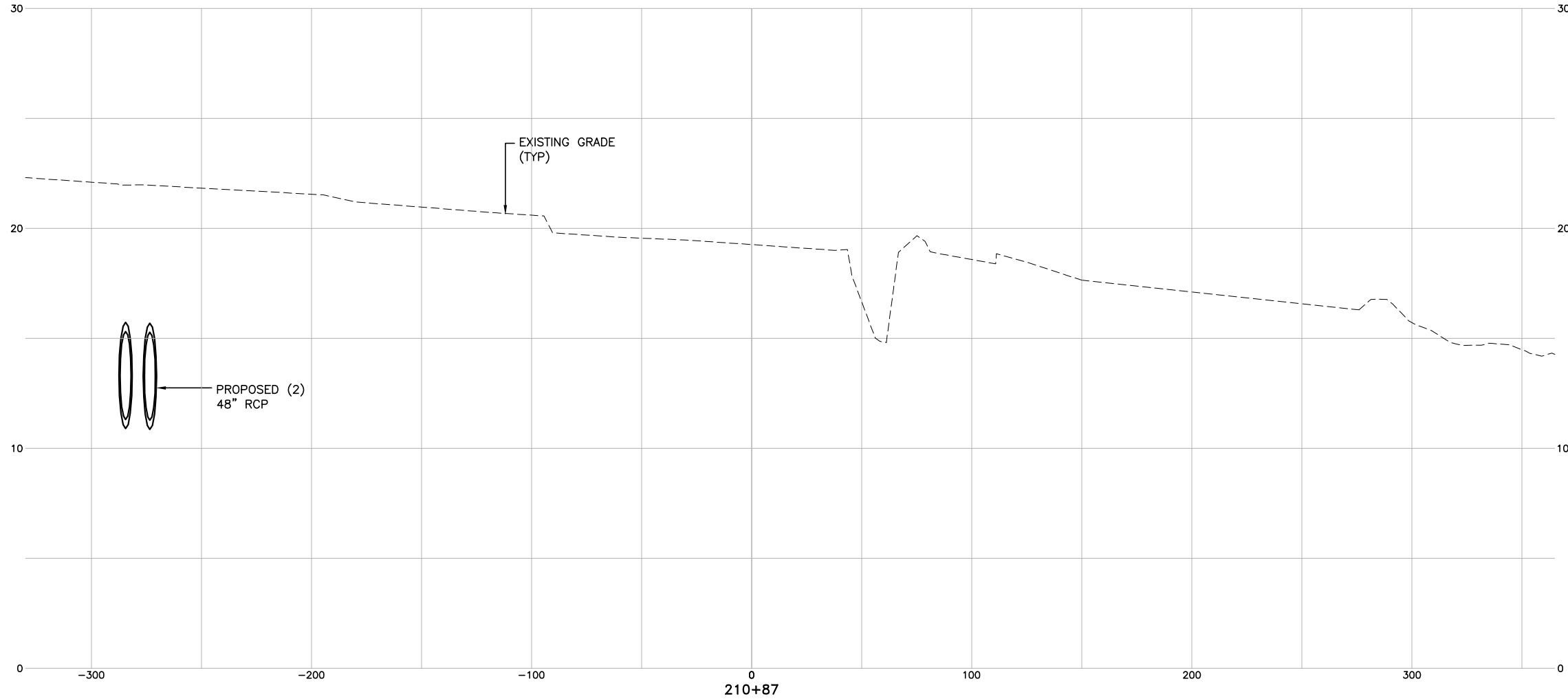
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WET DETENTION POND NO. 2 CROSS SECTIONS (22)	X2.22



FILE NAME: L:\DCS\Projects\Legacy\Savannah Airport Commission\60611019\_SEQuadDwg\900-Work\910 CAD\20-SHEETS\2-01-23\_XSEC\_POND\_2.dwg LAYOUT NAME: X2-23 PLOTTED: Thursday, February 25, 2021 - 2:18pm USER: Norma Pressley

THESE CROSS SECTIONS  
ARE LOCATED AT THE  
NEW WET DETENTION  
POND NO. 2

SCALE:  
1" = 30' HORIZ.  
1" = 3' VERT.



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENTS	APD	RWP

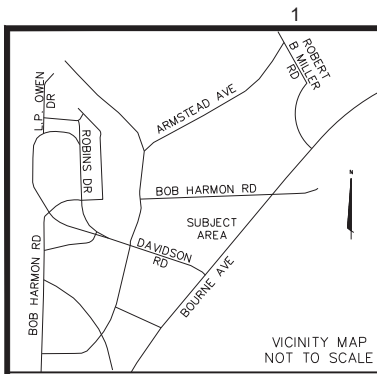


PM:	RWP
DWG. BY:	APD
CHK. BY:	SGH
DSG. BY:	APD
SCALE:	AS NOTED
PROJECT NO.	60611019
DATE:	MARCH, 2021

**SOUTHEAST QUADRANT STORM  
DRAINAGE IMPROVEMENTS**

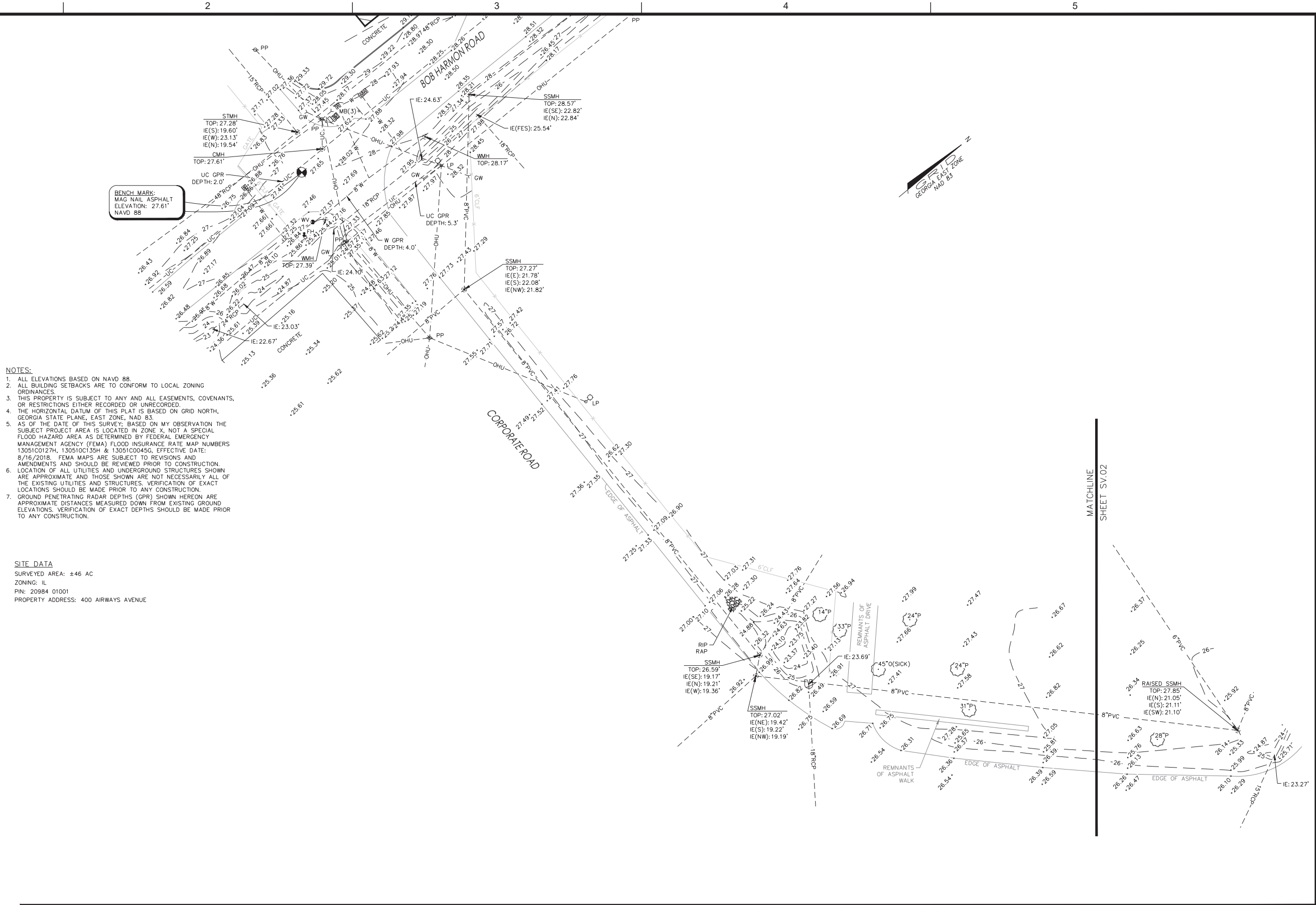
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<b>WET DETENTION POND NO. 2 CROSS SECTIONS (23)</b>	<b>X2.23</b>

FILE NAME: \\huik\2019\19-236\000\DWG\19-236\_southeast\quadrant\_topo\_2019.07.06.dwg LAYOUT NAME: SHEET 1 PLOTTED: Monday, March 01, 2021 - 9:24am USER: jrobison



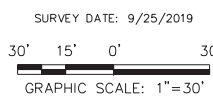
- LEGEND**
- BENCH MARK
  - RIGHT-OF-WAY CMF
  - GRATE INLET
  - CURB INLET
  - POWER POLE
  - TRAFFIC SIGNAL POLE
  - GUY WIRE
  - LIGHT POLE
  - SIGN
  - FORCE MAIN MANHOLE
  - SANITARY SEWER MANHOLE
  - STORM SEWER MANHOLE
  - ROOF INLET
  - WATER MANHOLE
  - ELECTRIC MANHOLE
  - COMMUNICATIONS MANHOLE
  - FIRE HYDRANT
  - WATER VALVE
  - IRRIGATION CONTROL VALVE
  - GAS VALVE
  - FIRE DEPARTMENT CONNECTION
  - WATER METER
  - TELEPHONE BOX
  - CABLE TV BOX
  - ELECTRIC BOX
  - GAS METER
  - FORCE MAIN
  - OVERHEAD UTILITY
  - STORM WATER LINE
  - SANITARY SEWER LINE
  - UNDERGROUND ELECTRIC
  - WATER LINE
  - UNDERGROUND GAS LINE
  - UNDERGROUND COMMUNICATIONS LINE
  - UNDERGROUND FIBER OPTIC LINE
  - WOOD LINE
  - CHAINLINK FENCE
  - RIGHT-OF-WAY
  - GAS WITNESS POST
  - GROUND PENETRATING RADAR
  - SPIGOT
  - CLEAN OUT
  - MAIL BOX
  - BOLLARD
  - COMMUNICATIONS HAND-HOLE
  - WATER HAND-HOLE
  - SEWER WITNESS POST
  - LATERAL
  - FLARED END SECTION
  - TRAFFIC SIGNAL BOX
  - REINFORCED CONCRETE PIPE
  - COMMUNICATIONS WITNESS POST
  - HIGH DENSITY POLYURETHANE PIPE
  - THROAT
  - INVERT ELEVATION
  - DEED BOOK
  - PLAT RECORD BOOK
  - SUBDIVISION MAP BOOK
  - PLAT BOOK
  - PARCEL IDENTIFICATION NUMBER
  - BASE FLOOD ELEVATION
  - POINT OF BEGINNING
  - POINT OF COMMENCEMENT

- TREES**
- LO LIVE OAK
  - P PINE
  - O OAK
  - CB CHINA BERRY
  - M MAGNOLIA
  - B BERRY
  - H HICKORY



- NOTES:**
- ALL ELEVATIONS BASED ON NAVD 88.
  - ALL BUILDING SETBACKS ARE TO CONFORM TO LOCAL ZONING ORDINANCES.
  - THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, COVENANTS, OR RESTRICTIONS EITHER RECORDED OR UNRECORDED.
  - THE HORIZONTAL DATUM OF THIS PLAT IS BASED ON GRID NORTH, GEORGIA STATE PLANE, EAST ZONE, NAD 83.
  - AS OF THE DATE OF THIS SURVEY, BASED ON MY OBSERVATION THE SUBJECT PROJECT AREA IS LOCATED IN ZONE X, NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBERS 13051C0217H, 13051C0135H & 13051C0045G, EFFECTIVE DATE: 8/16/2018. FEMA MAPS ARE SUBJECT TO REVISIONS AND AMENDMENTS AND SHOULD BE REVIEWED PRIOR TO CONSTRUCTION.
  - LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHOWN ARE APPROXIMATE AND THOSE SHOWN ARE NOT NECESSARILY ALL OF THE EXISTING UTILITIES AND STRUCTURES. VERIFICATION OF EXACT LOCATIONS SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
  - GROUND PENETRATING RADAR DEPTHS (GPR) SHOWN HEREON ARE APPROXIMATE DISTANCES MEASURED DOWN FROM EXISTING GROUND ELEVATIONS. VERIFICATION OF EXACT DEPTHS SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.

**SITE DATA**  
 SURVEYED AREA: ±46 AC  
 ZONING: IL  
 PIN: 20984 01001  
 PROPERTY ADDRESS: 400 AIRWAYS AVENUE



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP

1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.:	19-236
DATE:	MARCH, 2021

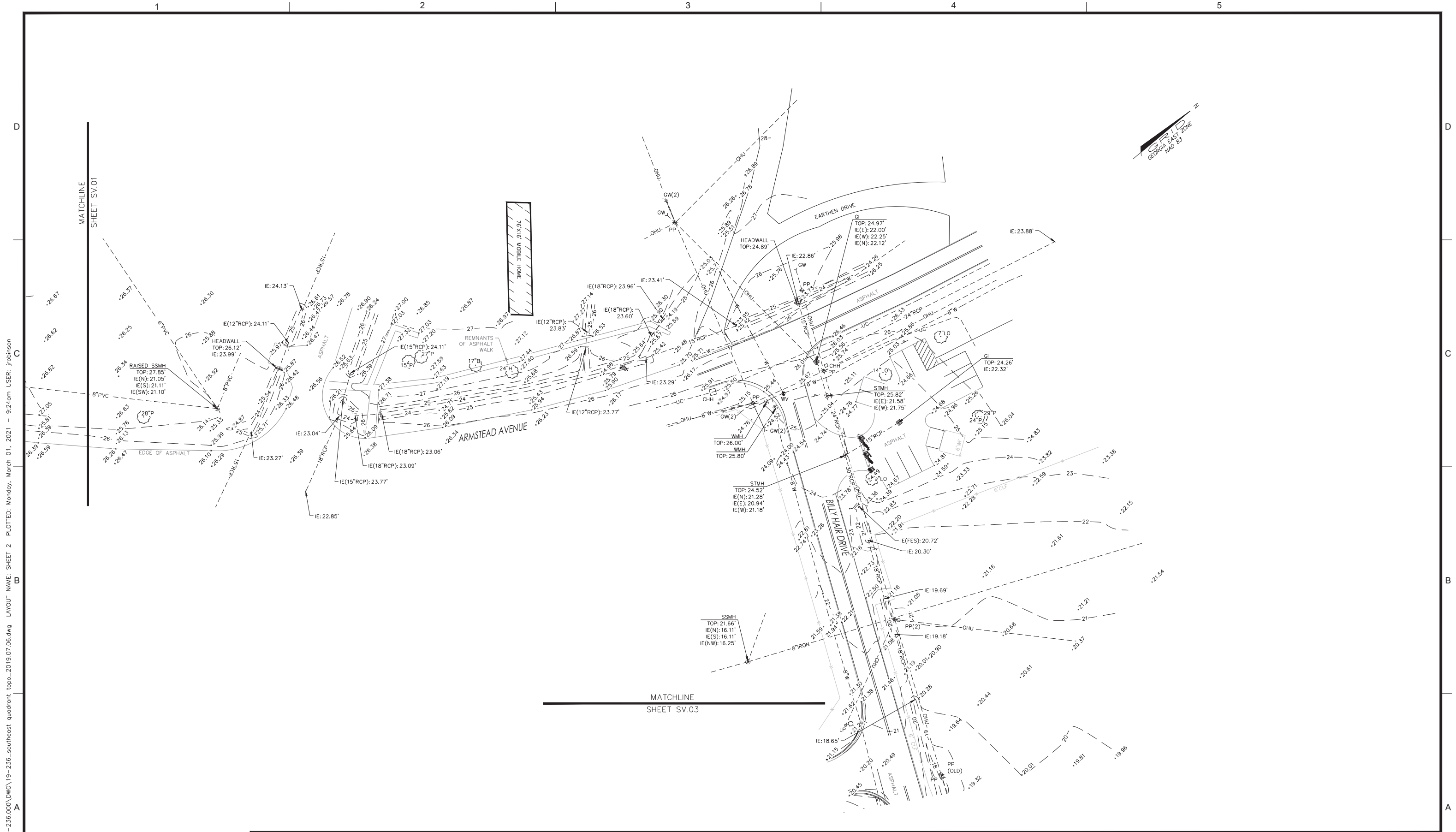
**SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS**

SHEET TITLE: SUPPLEMENTAL SURVEY

SHEET NO.: SV.01

DRAWING SIZE REDUCED IF LESS THAN 34"x22"





FILE NAME: \\huik\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019\_07\_06.dwg LAYOUT NAME: SHEET 2 PLOTTED: Monday, March 01, 2021 - 9:24am USER: jrobison



SURVEY DATE: 9/25/2019  
 30' 15' 0' 30'  
 GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP

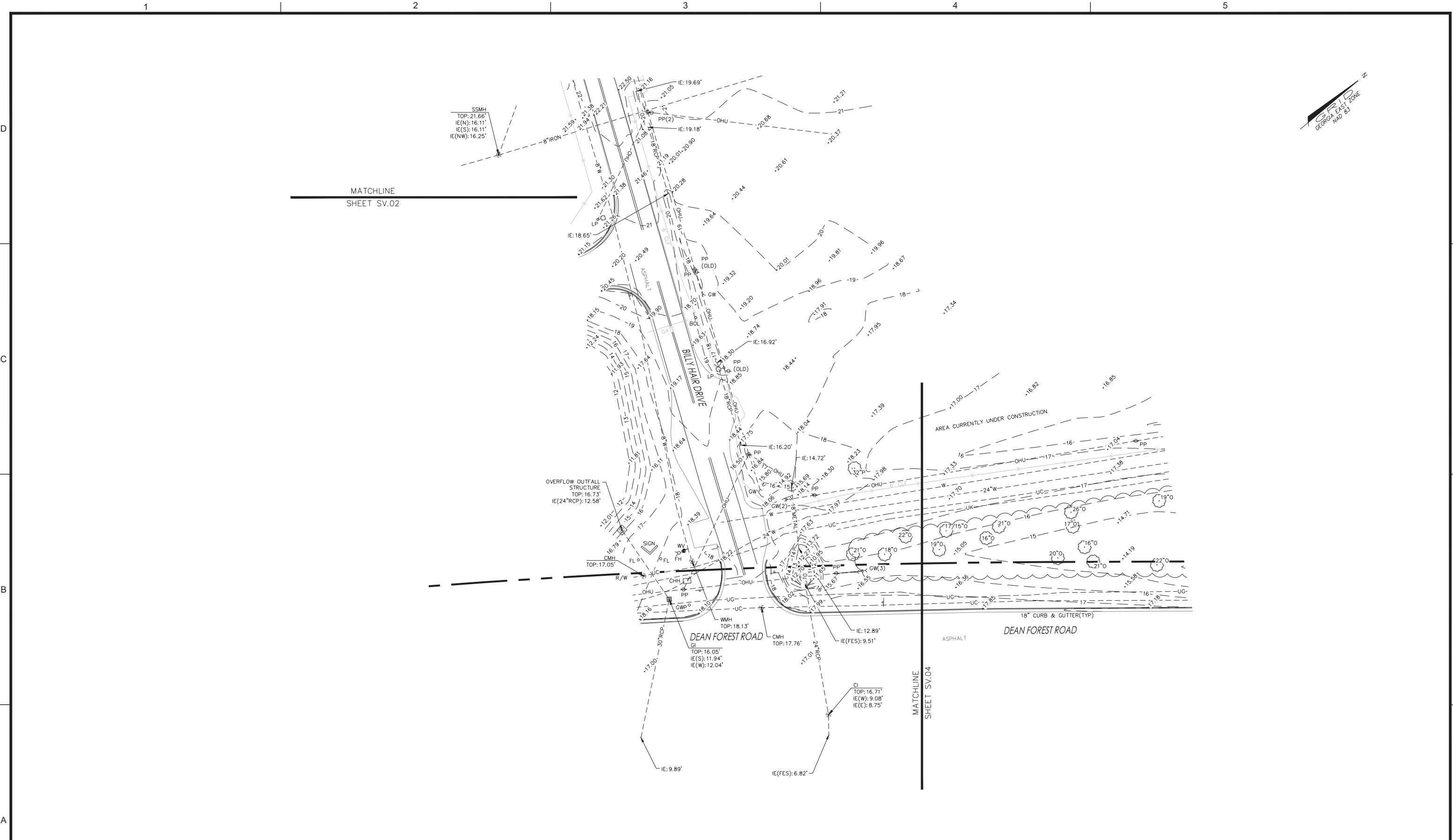


PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.:	19-236
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS	
SHEET TITLE	SHEET NO.
SUPPLEMENTAL SURVEY	SV.02

DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: \\huk\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019.07.06.dwg LAYOUT NAME: SHEET 3 PLOTTED: Monday, March 01, 2021 - 9:25am USER: jrobinson



SURVEY DATE: 9/25/2019  
 GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP



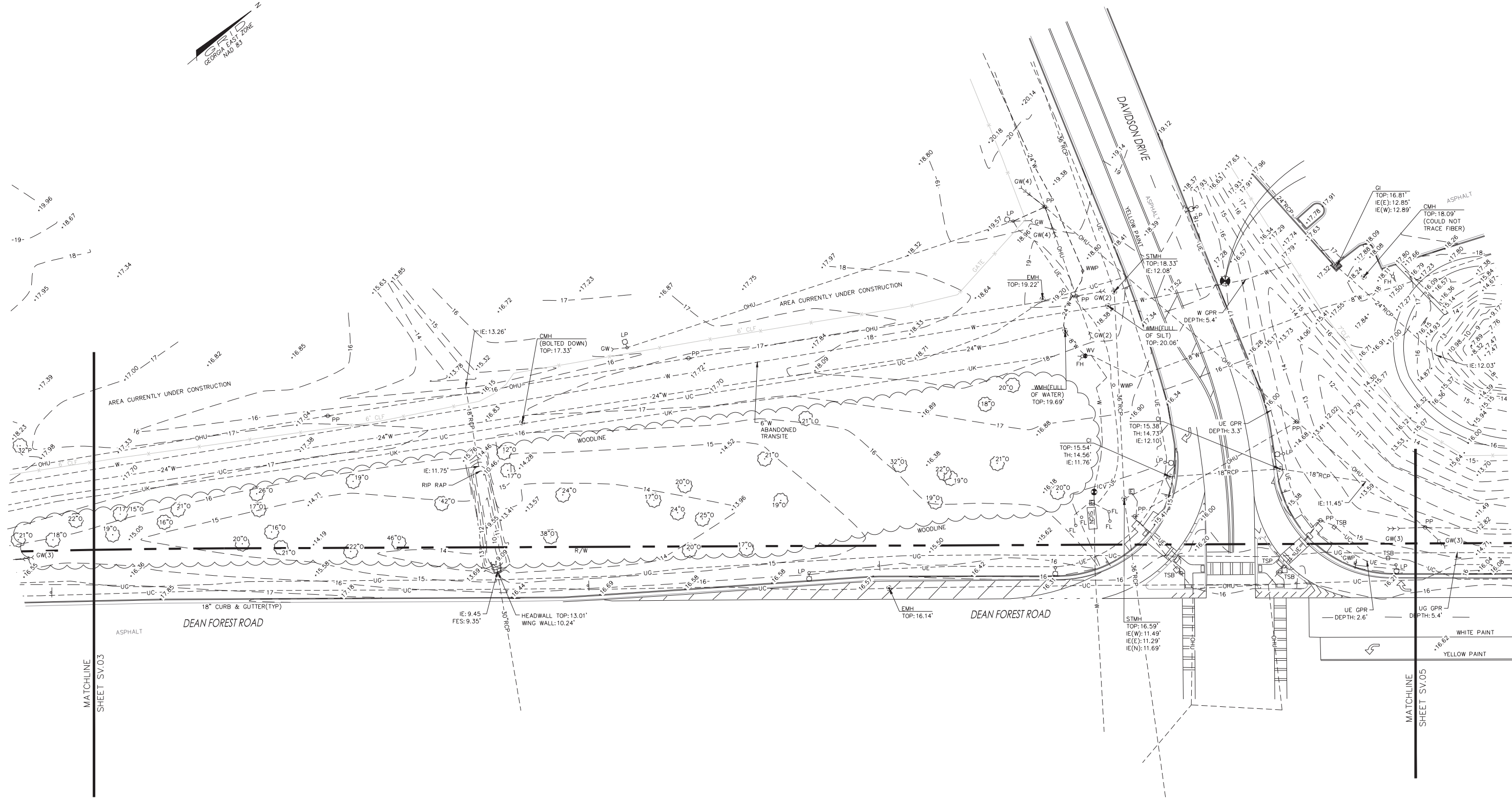
PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS	
SHEET TITLE	SHEET NO.
SUPPLEMENTAL SURVEY	SV.03

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huk\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019.07.06.dwg LAYOUT NAME: SHEET 4 PLOTTED: Monday, March 01, 2021 - 9:25am USER: jrobinson



SURVEY DATE: 9/25/2019  
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 GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP

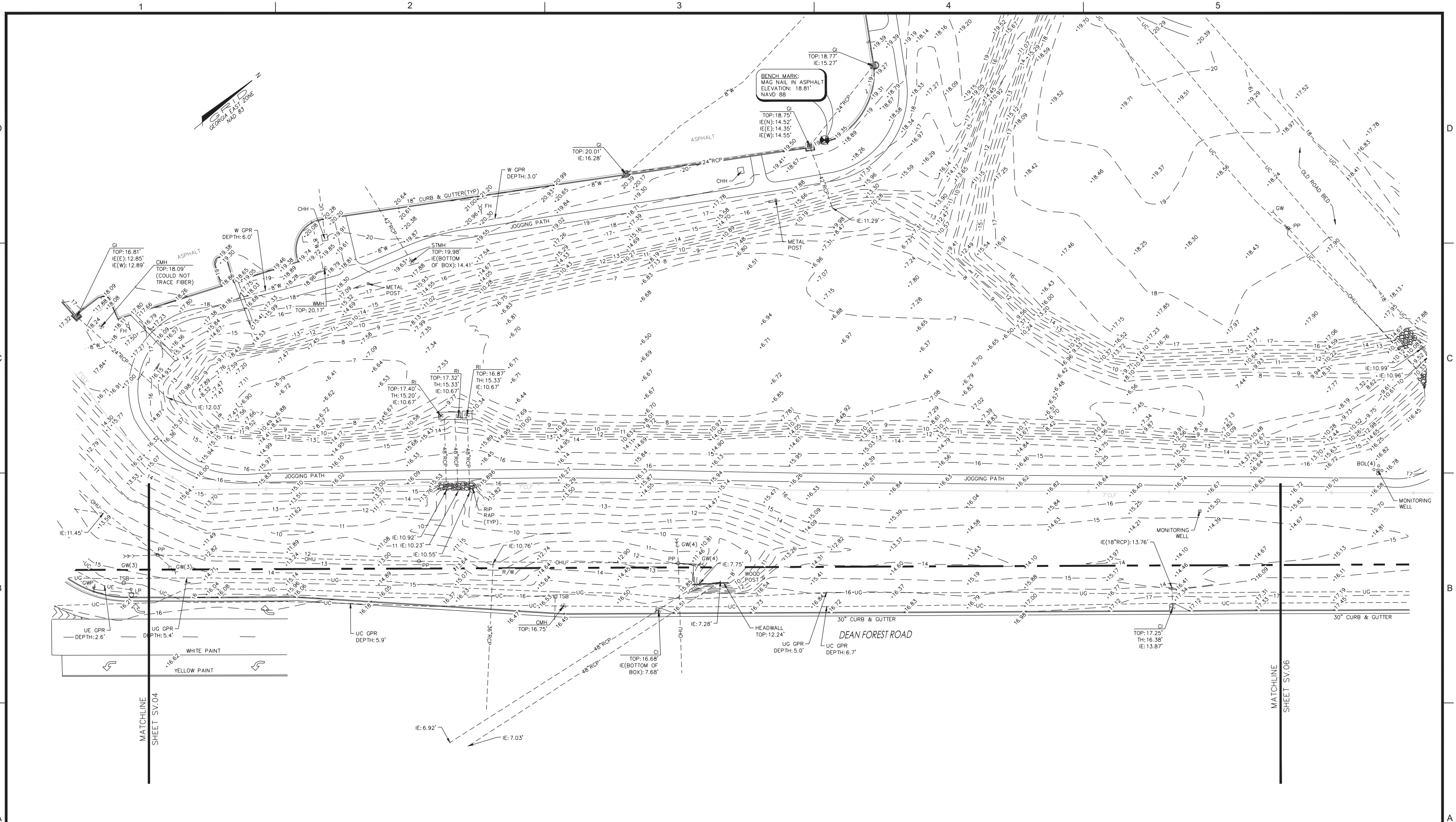


PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.:	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>SUPPLEMENTAL SURVEY</b>	
SHEET NO.	<b>SV.04</b>

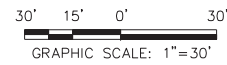
DRAWING SIZE REDUCED IF LESS THAN 34"x22"

FILE NAME: \\Huk\2019\19-236\000\DWG\19-236\_southeast\_quad\top\_2019.07.06.dwg LAYOUT NAME: SHEET 5 PLOTTED: Monday, March 01, 2021 - 9:26am USER: jrobison



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SURVEY DATE: 9/25/2019



DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP



AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711



Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

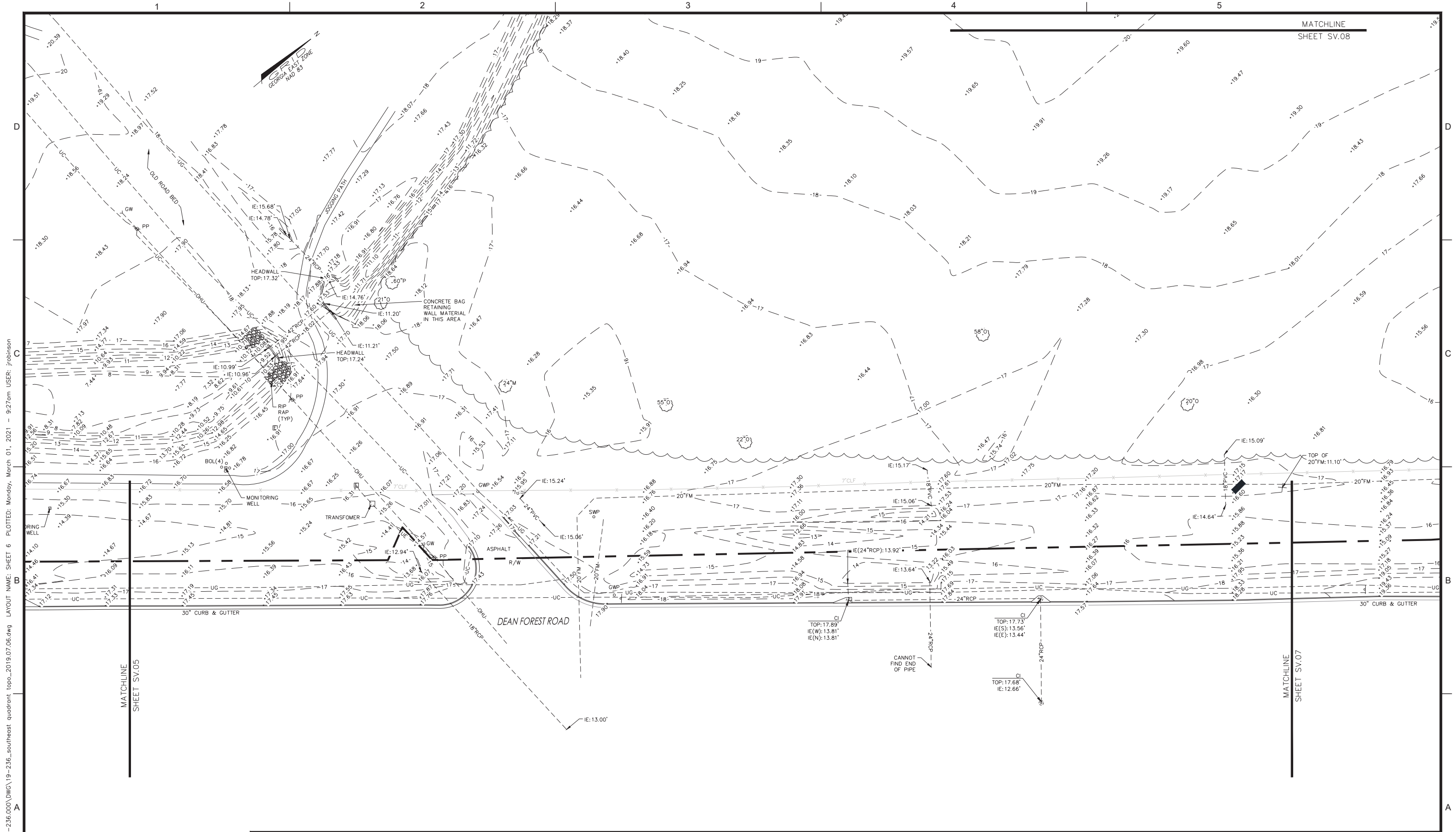
PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

### SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS

SHEET TITLE	SHEET NO.
SUPPLEMENTAL SURVEY	SV.05

DRAWING SIZE REDUCED IF LESS THAN 34"x22"





FILE NAME: \\huik\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019.07.06.dwg LAYOUT NAME: SHEET 6 PLOTTED: Monday, March 01, 2021 - 9:27am USER: jrbabinson



SURVEY DATE: 9/25/2019  
 GRAPHIC SCALE: 1" = 30'  
 30' 15' 0' 30'

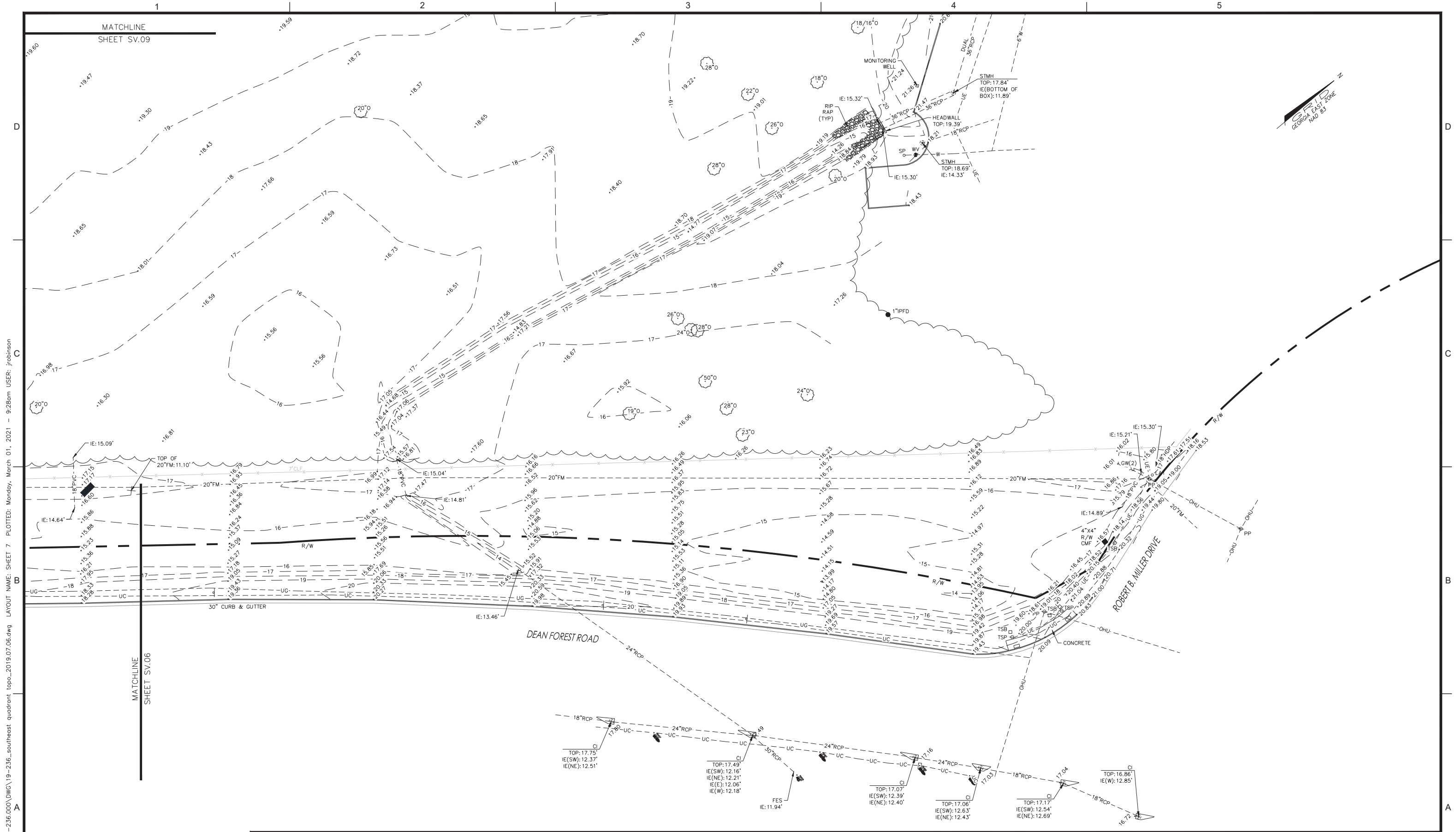
DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP



PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE <b>SUPPLEMENTAL SURVEY</b>	SHEET NO. <b>SV.06</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huk\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019.07.06.dwg LAYOUT NAME: SHEET 7 PLOTTED: Monday, March 01, 2021 - 9:28am USER: jrobinson

811  
Know what's below.  
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SURVEY DATE: 9/25/2019

30' 15' 0' 30'

GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>		SHEET NO.
<b>SUPPLEMENTAL SURVEY</b>		<b>SV.07</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\Huk\2019\19-236\19-236\_southeast\_quad\topo\_2019\topo.dwg LAYOUT NAME: SHEET 8 PLOTTED: Monday, March 01, 2021 - 9:29am USER: jrobinson

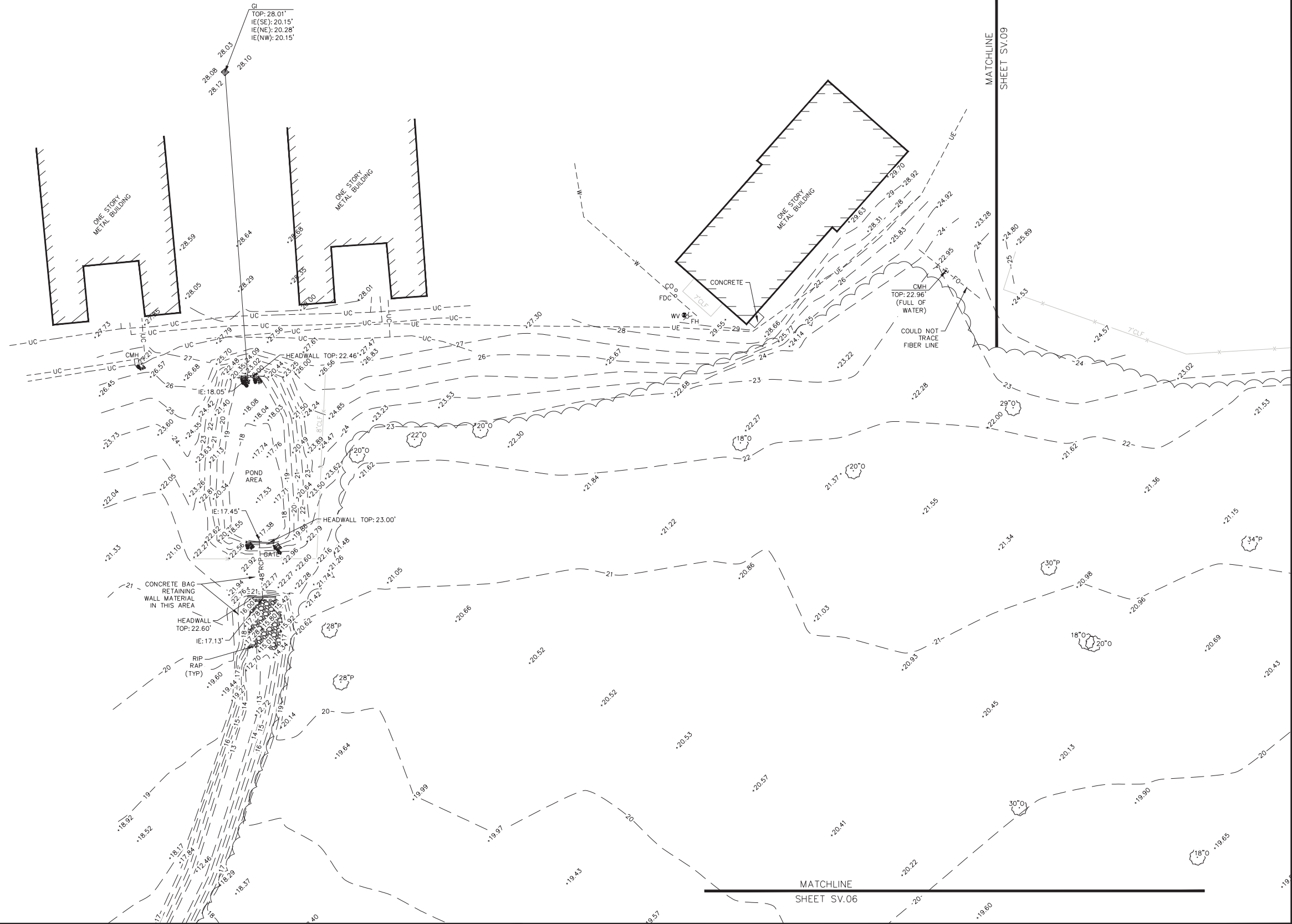
1 2 3 4 5

D

C

B

A



SURVEY DATE: 9/25/2019  
 30' 15' 0' 30'  
 GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP



PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>SUPPLEMENTAL SURVEY</b>	
SHEET NO.	<b>SV.08</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huik\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019.07.06.dwg LAYOUT NAME: SHEET 9 PLOTTED: Monday, March 01, 2021 - 9:29am USER: jrobinson

811  
Know what's below.  
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SURVEY DATE: 9/25/2019  
GRAPHIC SCALE: 1" = 30'

DATE	DESCRIPTION	BY	AUTH
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**COLEMAN COMPANY**  
ENGINEERS • SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

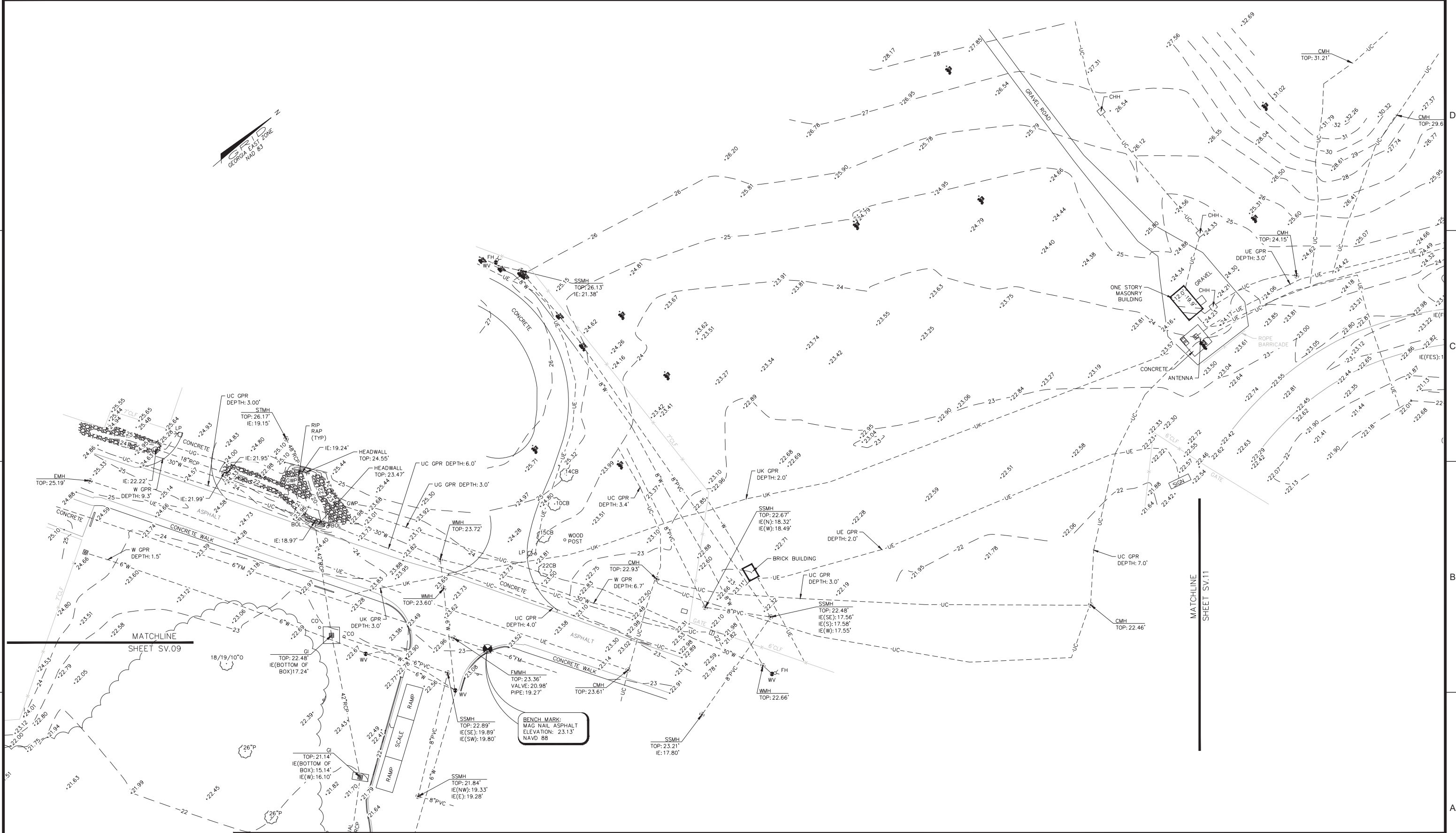
**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.:	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	
<b>SUPPLEMENTAL SURVEY</b>	
SHEET NO.	<b>SV.09</b>



FILE NAME: \\huk\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019\07\06.dwg LAYOUT NAME: SHEET 10 PLOTTED: Monday, March 01, 2021 - 9:31am USER: jrobinsom



SURVEY DATE: 9/25/2019

30' 15' 0' 30'

GRAPHIC SCALE: 1"=30'

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP

**COLEMAN COMPANY**  
ENGINEERS - SURVEYORS  
1480 Chatham Parkway, Suite 100  
Savannah, Georgia | (912) 200-3041

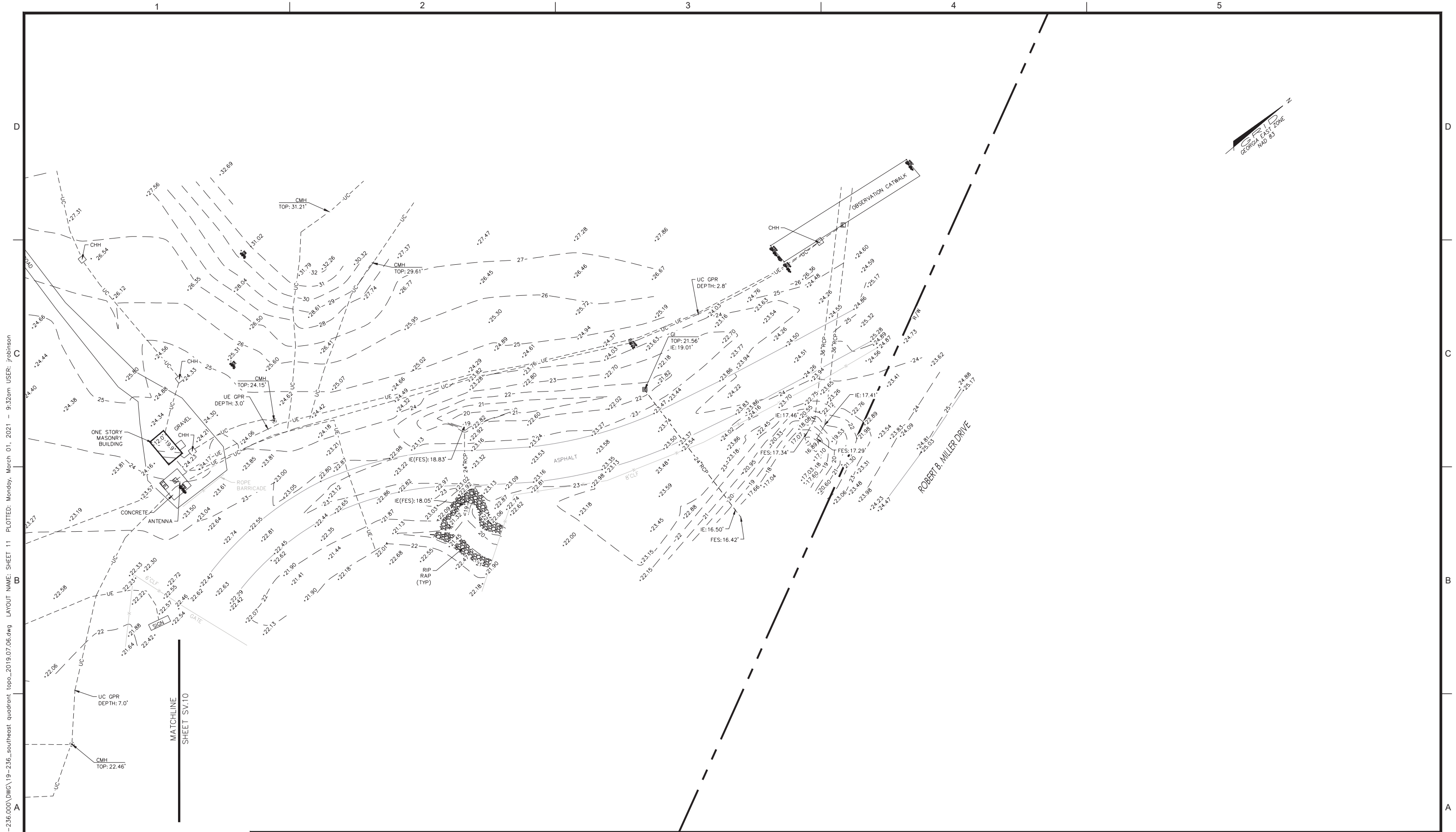
**AECOM**  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462  
Tel: 813.286.1711

**SAVANNAH HILTON HEAD INTERNATIONAL**  
Savannah / Hilton Head International Airport  
400 Airways Avenue  
Savannah, Georgia 31408

PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.:	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>		SHEET NO.
SUPPLEMENTAL SURVEY		SV.10

DRAWING SIZE REDUCED IF LESS THAN 34"x22"



FILE NAME: \\huik\2019\19-236\000\DWG\19-236\_southeast\_quad\topo\_2019\_07\_06.dwg LAYOUT NAME: SHEET 11 PLOTTED: Monday, March 01, 2021 - 9:32am USER: jrobinson



SURVEY DATE: 9/25/2019  
 GRAPHIC SCALE: 1" = 30'

MATCHLINE  
SHEET SV.10

DATE	DESCRIPTION	BY	AUTH
MAR. 2021	BID DOCUMENT	APD	RWP



PM:	JPA
DWG. BY:	JPA
CHK. BY:	JBT
DSG. BY:	
SCALE:	AS NOTED
PROJECT NO.	19-236
DATE:	MARCH, 2021

<b>SOUTHEAST QUADRANT STORM DRAINAGE IMPROVEMENTS</b>	
SHEET TITLE	SHEET NO.
<b>SUPPLEMENTAL SURVEY</b>	<b>SV.11</b>

DRAWING SIZE REDUCED IF LESS THAN 34"x22"