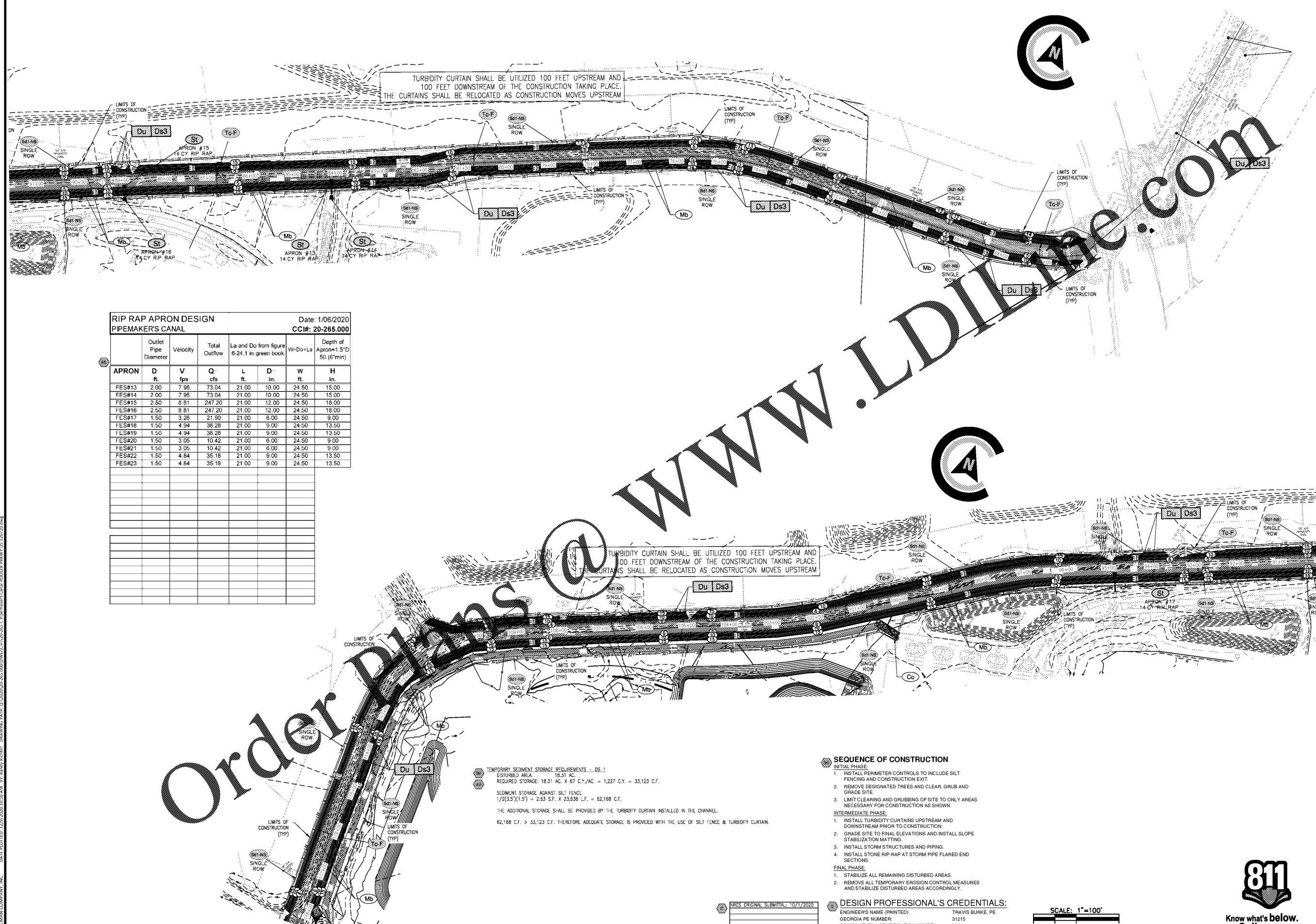


© 2018 COLEMAN COMPANY, INC. DATE PLOTTED: 12/26/2020 10:58 AM BY: Badi Richter DRAWING PATH: G:\2020\20-265\000\DWG\Civil\20-265-C PipeMaker's Canal Pooler Prelim.dwg



TURBIDITY CURTAIN SHALL BE UTILIZED 100 FEET UPSTREAM AND 100 FEET DOWNSTREAM OF THE CONSTRUCTION TAKING PLACE. THE CURTAINS SHALL BE RELOCATED AS CONSTRUCTION MOVES UPSTREAM

RIP RAP APRON DESIGN
PIPEMAKER'S CANAL
Date: 1/06/2020
CC#: 20-265.000

APRON	Outlet Pipe Diameter		Velocity	Total Outflow	La and Do from figure 6-24.1 in green book		W+Do+La	Depth of Apron=1.5'D
	D ft.	V fps	Q cfs	L ft.	D in.	W ft.	H in.	
FES#13	2.00	7.95	73.04	21.00	10.00	24.50	15.00	
FES#14	2.00	7.95	73.04	21.00	10.00	24.50	15.00	
FES#15	2.50	8.81	247.20	21.00	12.00	24.50	18.00	
FES#16	2.50	8.81	247.20	21.00	12.00	24.50	18.00	
FES#17	1.50	3.26	21.90	21.00	6.00	24.50	9.00	
FES#18	1.50	4.94	38.28	21.00	9.00	24.50	13.50	
FES#19	1.50	4.94	38.28	21.00	9.00	24.50	13.50	
FES#20	1.50	3.05	10.42	21.00	6.00	24.50	9.00	
FES#21	1.50	3.05	10.42	21.00	6.00	24.50	9.00	
FES#22	1.50	4.84	35.18	21.00	9.00	24.50	13.50	
FES#23	1.50	4.84	35.18	21.00	9.00	24.50	13.50	

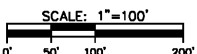
TEMPORARY SEDIMENT STORAGE REQUIREMENTS - DS.1
DISTURBED AREA: 18.31 AC.
REQUIRED STORAGE: 18.31 AC. X 67 C.Y./AC. = 1,227 C.Y. = 33,123 C.F.
SEDIMENT STORAGE AGAINST SILT FENCE:
 $1/2(3.5')(1.5') = 2.63 \text{ S.F.} \times 23,638 \text{ L.F.} = 62,168 \text{ C.F.}$
THE ADDITIONAL STORAGE SHALL BE PROVIDED BY THE TURBIDITY CURTAIN INSTALLED IN THE CHANNEL.
 $62,168 \text{ C.F.} > 33,123 \text{ C.F.}$ THEREFORE ADEQUATE STORAGE IS PROVIDED WITH THE USE OF SILT FENCE & TURBIDITY CURTAIN.

SEQUENCE OF CONSTRUCTION

- INITIAL PHASE:**
- INSTALL PERMETER CONTROLS TO INCLUDE SILT FENCING AND CONSTRUCTION EXIT
 - REMOVE DESIGNATED TREES AND CLEAR, GRUB AND GRADE SITE.
 - LIMIT CLEARING AND GRUBBING OF SITE TO ONLY AREAS NECESSARY FOR CONSTRUCTION AS SHOWN.
- INTERMEDIATE PHASE:**
- INSTALL TURBIDITY CURTAINS UPSTREAM AND DOWNSTREAM PRIOR TO CONSTRUCTION.
 - GRADE SITE TO FINAL ELEVATIONS AND INSTALL SLOPE STABILIZATION MATTING.
 - INSTALL STORM STRUCTURES AND PIPING.
 - INSTALL STONE RIP-RAP AT STORM PIPE FLARED END SECTIONS.
- FINAL PHASE:**
- STABILIZE ALL REMAINING DISTURBED AREAS.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE DISTURBED AREAS ACCORDINGLY.

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED): TRAVIS BURKE, PE
GEORGIA PE NUMBER: 31215
GSWCC LEVEL # CERTIFICATION NUMBER: 8134



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RELEASED FOR CONSTRUCTION

REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
PIPE MAKER'S CANAL IMPROVEMENTS
LOCATED IN POOLER, GA
PREPARED FOR CITY OF POOLER

JOB NUMBER: 20-265
DATE: 06/05/20
DRAWN BY: RAR
CHECKED BY: TGB
SCALE: AS NOTED

FINAL EROSION CONTROL

SHEET:
ES7.4