

GPC NOAH'S ARK OPERATING HEADQUARTERS - SITE DESIGN MASTER IMPROVEMENT PLANS

GENERAL NOTES:
 Project Name: GPC NOAH'S ARK OPERATING HEADQUARTERS
 Location: CLAYTON COUNTY
 LATITUDE: 33.493167°, LONGITUDE: -84.335316°

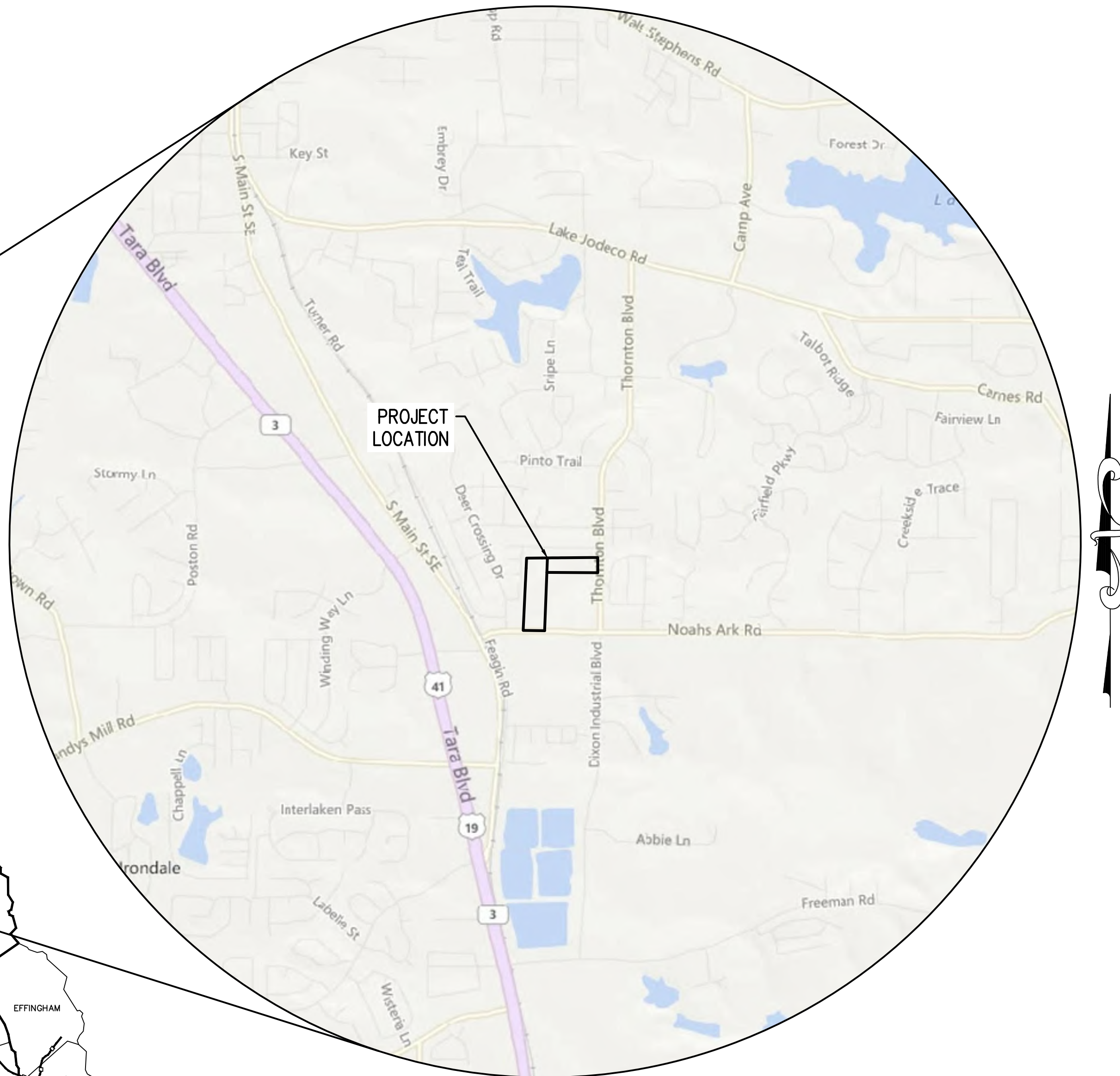
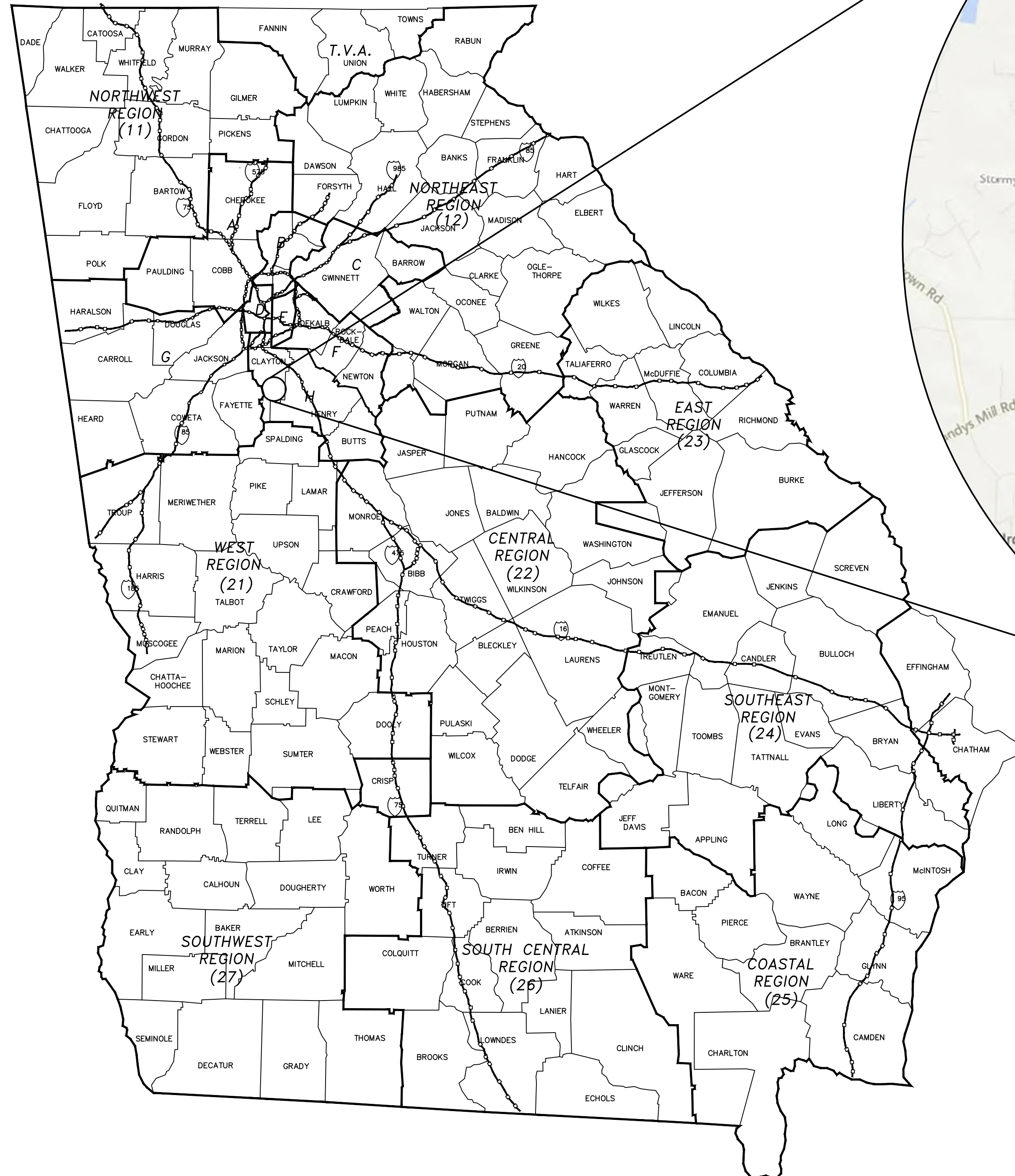
A. Project Description:
 Construction at the operating headquarters includes parking lot modifications, pavement replacement, installation of sanitary sewer pipe lines. Oil containment will be provided for the site. Storm drainage installation activities will be conducted.

B. Owner Information
 Georgia Power Company (GPC)
 205 Southfield Parkway
 BIN 79600
 Forest Park, GA 30297
 CONTACT: Burns Wetherington
 (404) 506-2533

C. Operator & 24-hour Local Erosion and Sedimentation Control Contact:
 Bryan Harris (Georgia Power Company)
 (404) 506-4932

D. Total Acreage / Disturbed Acreage
 Total Site Area: 12.6 Acres
 Total Disturbed Area: 7.50 Acres

GEORGIA STATE MAP



LOCATION MAP - NOT TO SCALE

LATITUDE: 33.493167°
 LONGITUDE: -84.335316°

- DIRECTIONS:
- FROM ATLANTA - TAKE I-75 SOUTH TO EXIT 235 TO TARA BLVD.
 - CONTINUE ON TARA BLVD.
 - TURN LEFT ONTO AMERICAN LEGION WAY.
 - TURN RIGHT ONTO SOUTH MAIN STREET.
 - TURN LEFT ONTO NOAH'S ARK ROAD.
 - 1704 NOAH'S ARK ROAD IS LOCATED ON THE LEFT.

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INTERSTATE HIGHWAY NUMBER



Know what's below.
 Call before you dig.
 Dial 811 or Call 1-800-282-7411

OWNER:
 GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
 BIN 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT:
 241 RALPH MCGILL BOULEVARD NE
 BIN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
 (404) 506-4932

ENGINEER:
 AEC, INC.
 50 WARM SPRING ORCHLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6960



AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAH'S ARK OPERATING HEADQUARTERS

COVER
 CLAYTON COUNTY, GEORGIA

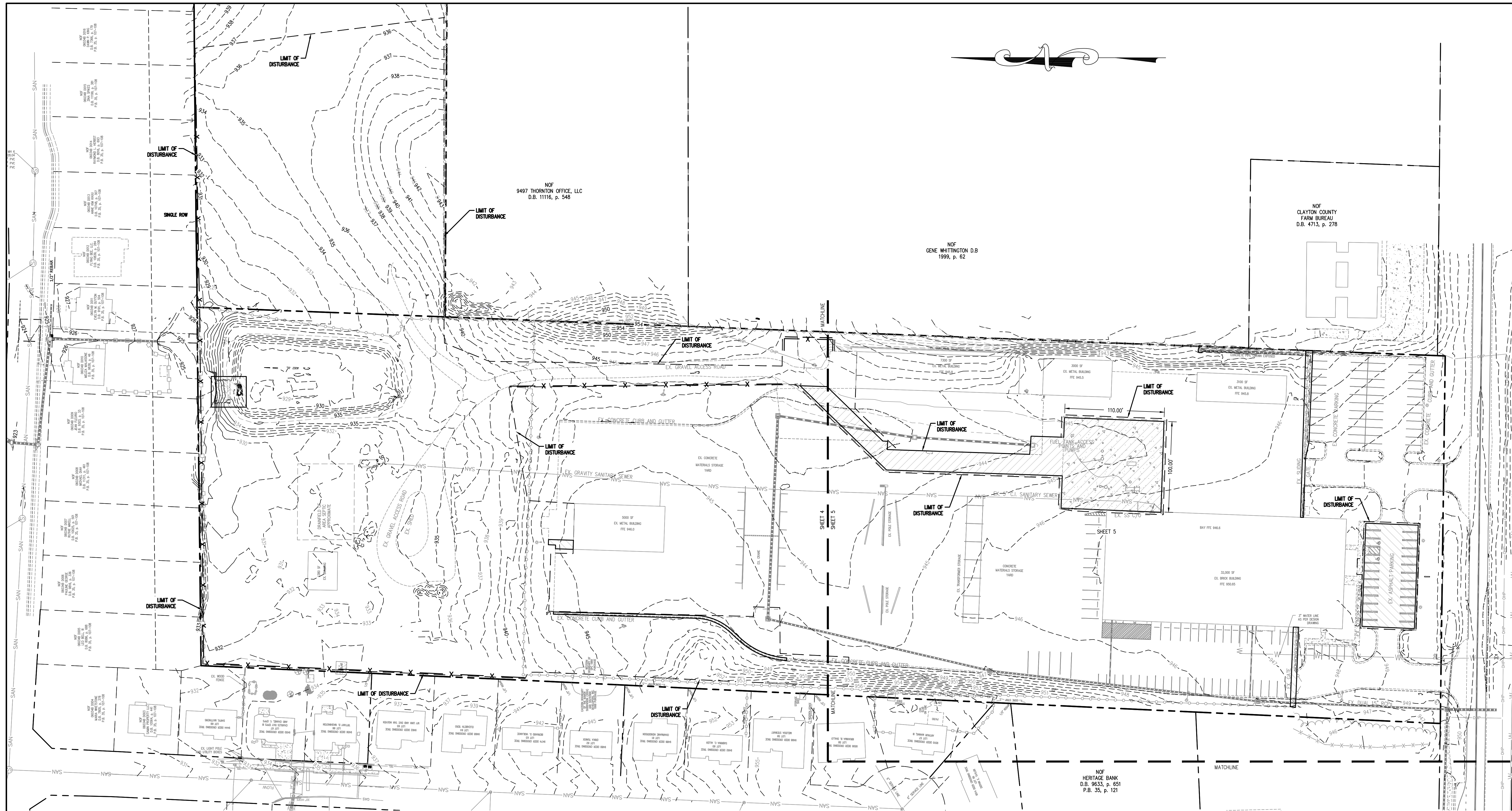
DR. MDA. TR. CHK. CJW/MDV

SCALE: NTS DATE: 5/17/2019

DRAWING No. SHEET No. 1 OF 30

REVISIONS:

NO.	DATE	BY	REVISIONS
4.0E/3/20			ADD DUMPSTER PAD AREA
3.0E/1/20			CMV MASTER SITE IMPROVEMENT SET
2.0E/3/20			REV. SEWER TIE IN LOCATION
1.0E/1/19			REV. SEWER TIE IN LOCATION



NOF
9497 THORNTON OFFICE, LLC
D.B. 11116, p. 548

NOF
GENE WHITTINGTON D.B.
1999, p. 62

NOF
CLAYTON COUNTY
FARM BUREAU
D.B. 4713, p. 278

NOF
HERITAGE BANK
D.B. 9633, p. 651
P.B. 35, p. 121

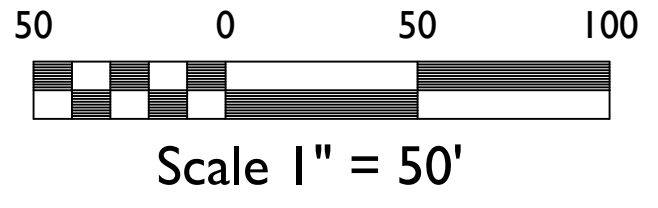
DEMOLITION LEGEND	
	EX FENCE
	EX CURB AND GUTTER
	EX SANITARY SEWER
	EX STORM
	DEMOLITION REMOVAL AREA
	EX CONCRETE

- DEMOLITION NOTES**
1. ALL PHASE 1 EROSION CONTROL BMPs MUST BE INSTALLED PRIOR TO DEMOLITION WORK.
 2. ALL DEMOLITION DEBRIS MUST BE REMOVED FROM THE SITE. CONTRACTOR SHALL DISPOSE OF DEBRIS PER ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
 3. INSTALL TRAFFIC CONTROL DEVICES PER MUTCD (LATEST EDITION) STANDARDS FOR ALL ROADWORK.
 4. CONTRACTOR TO OBTAIN ALL STATE AND FEDERAL UNDERGROUND STORAGE TANK CLOSURE CERTIFICATION UPON REMOVAL.
 5. THE DEMOLITION DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND SURVEY DATA. THEY MAY NOT REFLECT ACTUAL FIELD CONDITIONS. PRIOR TO PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THESE DRAWINGS IN COMPARISON TO EXISTING FIELD CONDITIONS AND THEN IMMEDIATELY NOTIFY THE ENGINEER OF ANY INCONSISTENCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS.
 6. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF ANY DEMOLITION OR NEW CONSTRUCTION WORK (AS INDICATED ON THE CONSTRUCTION DOCUMENTS) CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.

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ATLANTA, GA 30308
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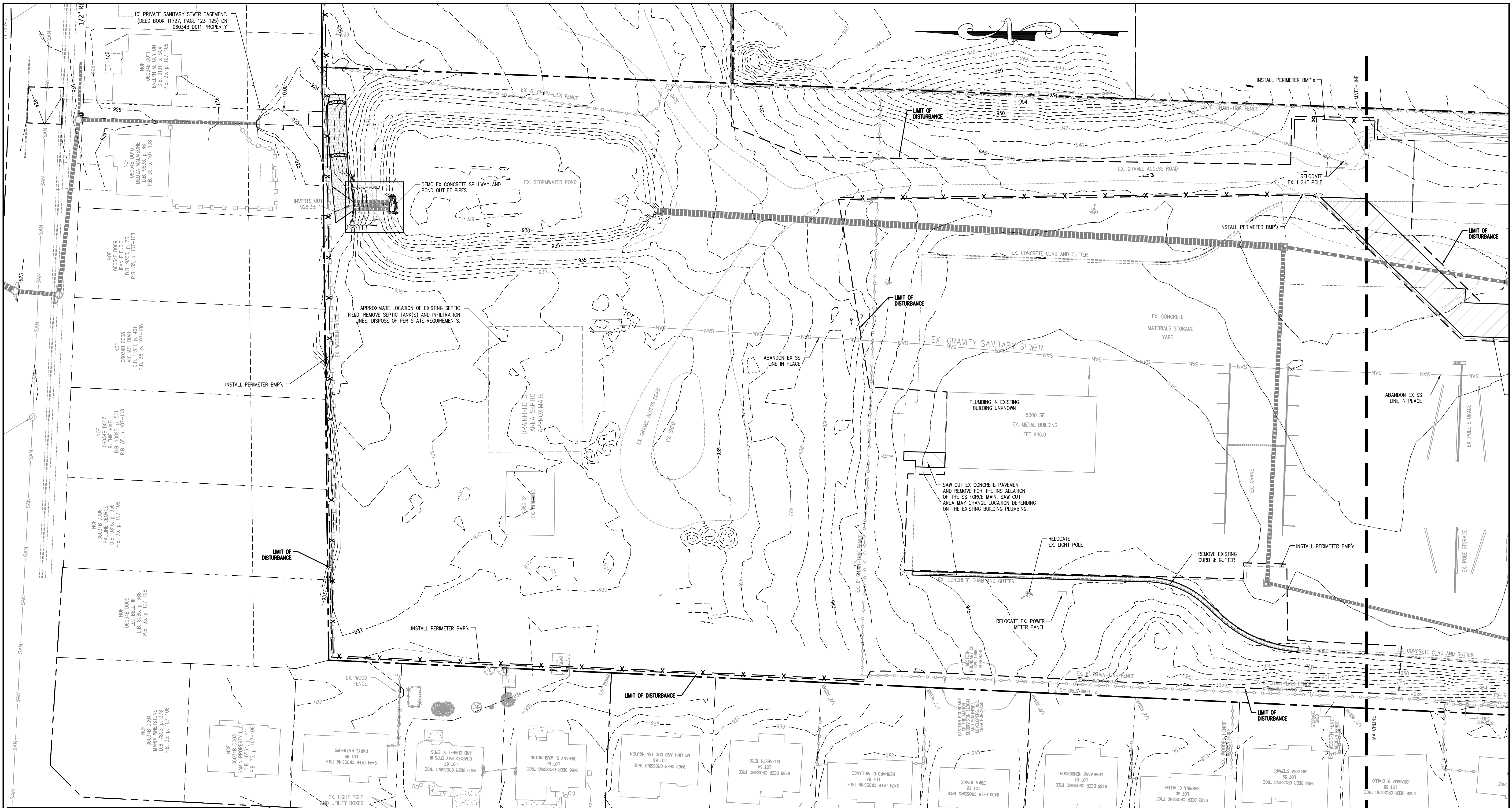
ENGINEER
AEC, INC.
50 WARM SPRINGS CIRCLE
ROSELLE, GA 30075
CONTACT: MARK VAN DE WATER
(770) 641-1942
LEVEL II CERT. # 6960



GEORGIA811
Utilities Protection Center, Inc.
Know what's below.
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Dial 811 or Call 1-800-282-7411

AEC JOB # 18-4190.20		GEORGIA POWER CO., ATLANTA, GA. LAND DEPARTMENT	
REVISONS		GPC NOAHS ARK OPERATING HEADQUARTERS	
APPROVALS		OVERALL DEMOLITION PLAN	
		CLAYTON COUNTY, GEORGIA	
NO.	DATE	BY	REVISIONS
4.0E/3/20			ADD DUMPSTER PAD AREA
3.0E/7/14/20			CMV MASTER SITE IMPROVEMENT SET
2.0E/7/31/20			CMV REV. SEWER TIE IN LOCATION
1.0E/1/13/19			MDV REV. SEWER TIE IN LOCATION

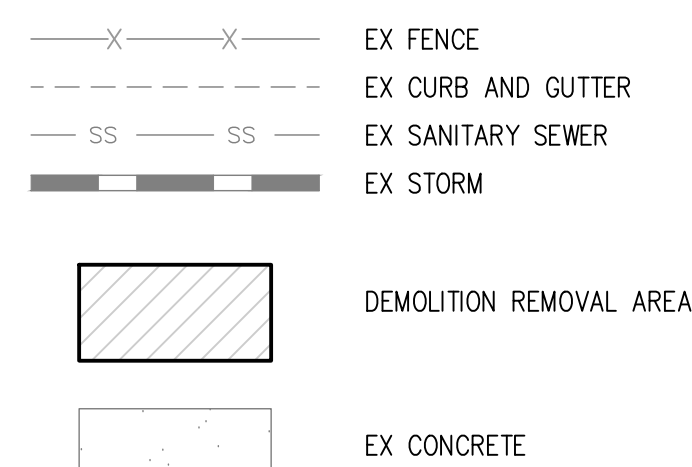
DR.	MDA	TR.	CHK
			CJW/MDV
SCALE		DATE	
1" = 50'		5/17/2019	
DRAWING No.		SHEET No.	
		3 OF 30	



DEMOLITION NOTES

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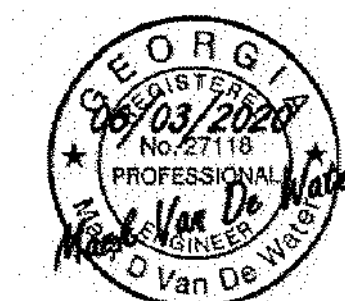
DEMOLITION LEGEND



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 241 RALPH MCGILL BOULEVARD NE
 BLDG 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
 241 RALPH MCGILL BOULEVARD NE
 BLDG 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
 (404) 506-4932

ENGINEER
PEC, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 841-1942
 LEVEL II CERT. # 6960

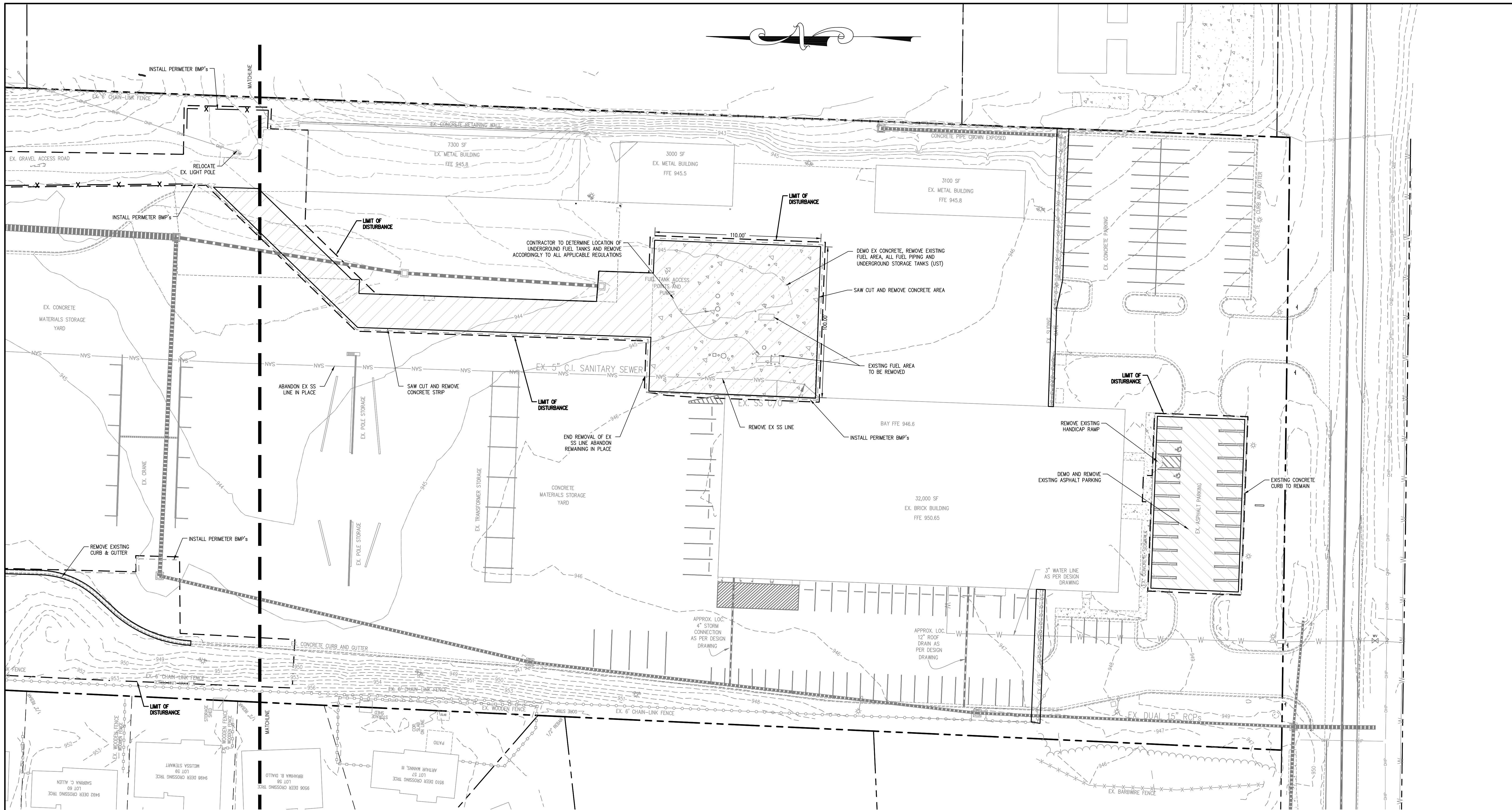


Scale 1" = 30'



Know what's below.
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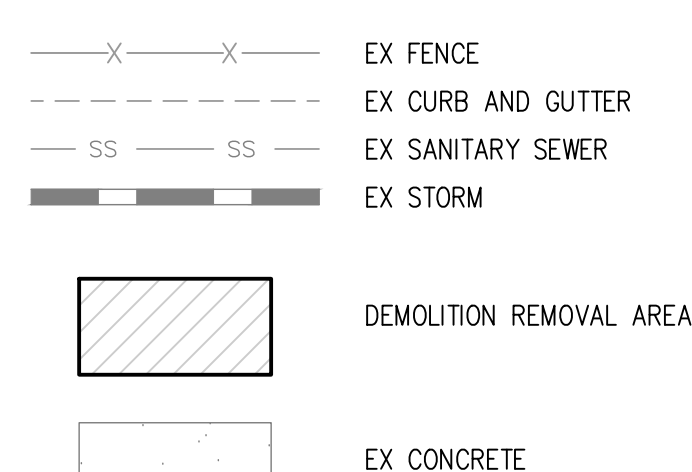
AEC JOB # 18-4190.20		GEORGIA POWER CO., ATLANTA, GA.	
		LAND DEPARTMENT	
		GPC NOAHS ARK OPERATING HEADQUARTERS	
		SITE DEMOLITION PLAN	
		CLAYTON COUNTY, GEORGIA	
NO. DATE BY	REVISIONS	DR. MDA	TR. CRK
4.08/3/20	ADD DUMPSTER PAD AREA		
3.08/1/20	REV. MASTER SITE IMPROVEMENT SET		
2.01/31/20	REV. SEWER TIE IN LOCATION		
1.08/13/19	REV. SEWER TIE IN LOCATION		
APPROVALS		SCALE 1" = 30'	DATE 5/17/2019
		DRAWING No.	SHEET No.
			4 OF 30



DEMOLITION NOTES

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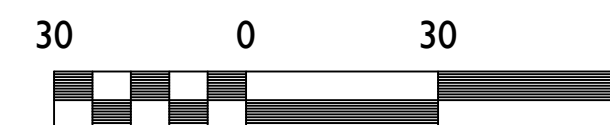
DEMOLITION LEGEND



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 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
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OPERATOR / 24 HOUR CONTACT
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 BIN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
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ENGINEER
AEI, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6960



Scale 1" = 30'



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AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT

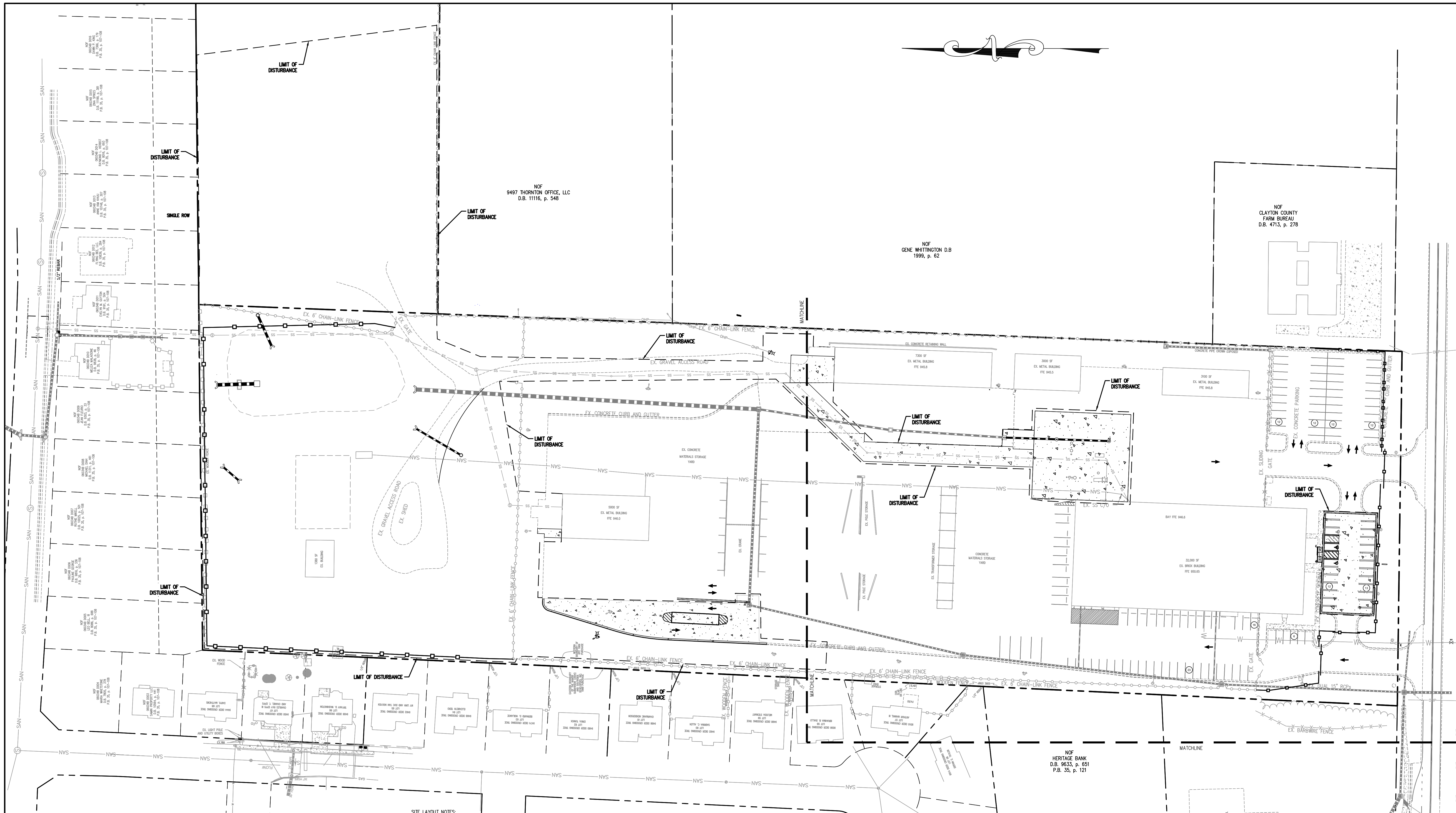
GPC NOAHS ARK OPERATING HEADQUARTERS

SITE DEMOLITION PLAN

CLAYTON COUNTY, GEORGIA

REVISIONS		DR.	TR.	CHK
4.0E/3/20	CMW ADDED DUMPER PAD AREA			
3.0E/1/19	CMW MASTER SITE IMPROVEMENT SET			
2.0E/1/19	CMW REV. SEWER TIE IN LOCATION			
1.0E/1/19	MDV REV. SEWER TIE IN LOCATION			
NO.	DATE	BY		

SCALE	1" = 30'	DATE	5/17/2019
DRAWING No.		SHEET No.	5 OF 30



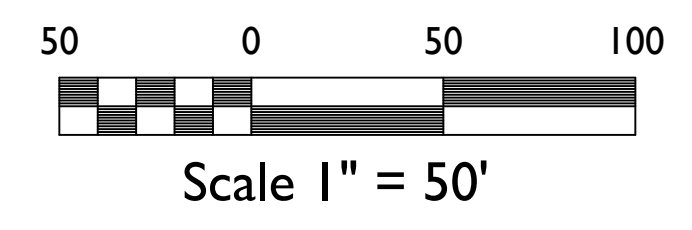
SITE LAYOUT NOTES:
 1. SEE SHEET #23 FOR CONCRETE PAVEMENT SPECIFICATIONS
 2. ALL PARKING SPACES TO BE A MINIMUM OF 9'x18' WHIT 5" PAINTED WHITE STRIPE.

LAYOUT/UTILITY LEGEND			
	EXISTING WATER LINE		EXISTING CONCRETE
	EXISTING STORM SEWER LINE		PROPOSED CONCRETE
	EXISTING CURB AND GUTTER		EXISTING LIGHT POLE
	EXISTING FENCE		EXISTING WATER VALVE
	PROPOSED FENCE		EXISTING WATER VALVE
	EXISTING SANITARY SEWER LINE		SANITARY SEWER MANHOLE CLEANOUT
	PROPOSED SANITARY SEWER LINE		WATER VALVE
	PROPOSED SANITARY SEWER FORCE MAIN		FORCE MAIN

OWNER
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OPERATOR / 24 HOUR CONTACT
 241 RALPH MCGILL BOULEVARD NE
 BIN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
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ENGINEER
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 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
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 LEVEL 1 CERT. # 6960



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AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
GPC NOAHS ARK OPERATING HEADQUARTERS
OVERALL LAYOUT & UTILITY PLAN
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE		DATE	
1" = 50'		5/17/2019	
DRAWING No.		SHEET No.	
		6 OF 30	

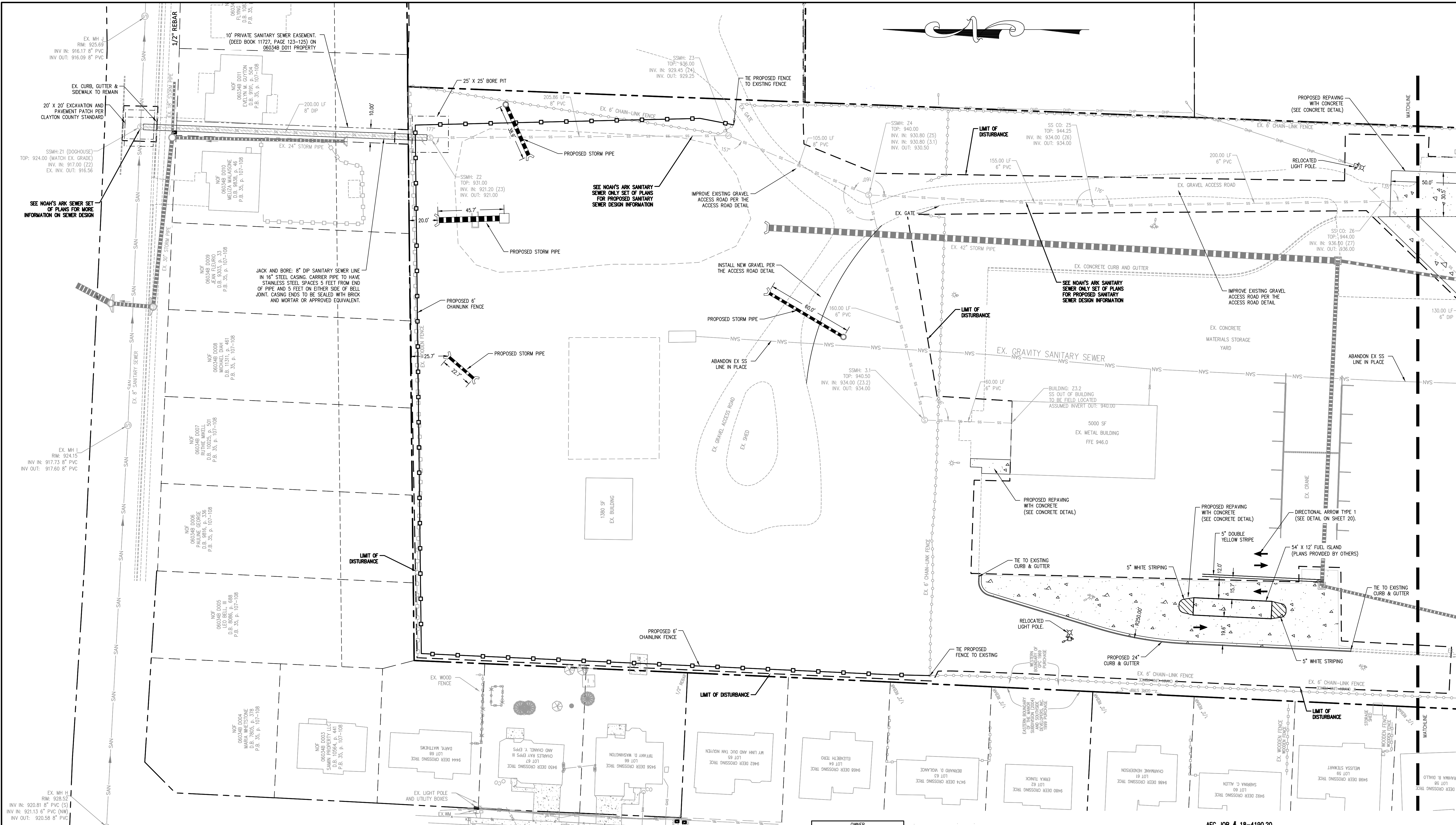
APPROVALS

NO.	DATE	BY

REVISIONS

NO.	DATE	BY	DESCRIPTION

4.0E/3/20 CWM ADDED DUMPSTER PAD AREA
 3.0E/7/14/20 CWM MASTER SITE IMPROVEMENT SET
 2.0E/3/21/20 CWM REV. SEWER TIE IN LOCATION
 1.0E/7/13/19 MDV REV. SEWER TIE IN LOCATION

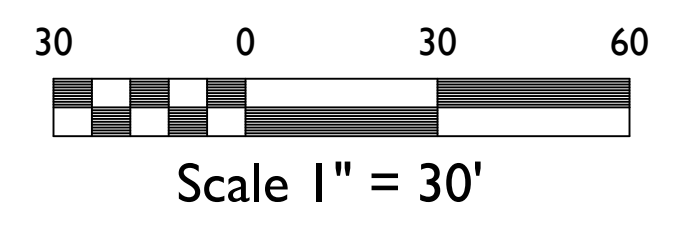


LAYOUT/UTILITY LEGEND

	EXISTING WATER LINE		EXISTING CONCRETE
	EXISTING STORM SEWER LINE		PROPOSED CONCRETE
	EXISTING CURB AND GUTTER		EXISTING LIGHT POLE
	EXISTING FENCE		EXISTING WATER VALVE
	PROPOSED FENCE		SSMH SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER LINE		CO CLEANOUT
	PROPOSED SANITARY SEWER LINE		WV WATER VALVE
	PROPOSED SANITARY SEWER FORCE MAIN		FM FORCE MAIN

SITE LAYOUT NOTES:
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DIVISION
GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
 BLDG 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
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 OPERATOR / 24 HOUR CONTACT
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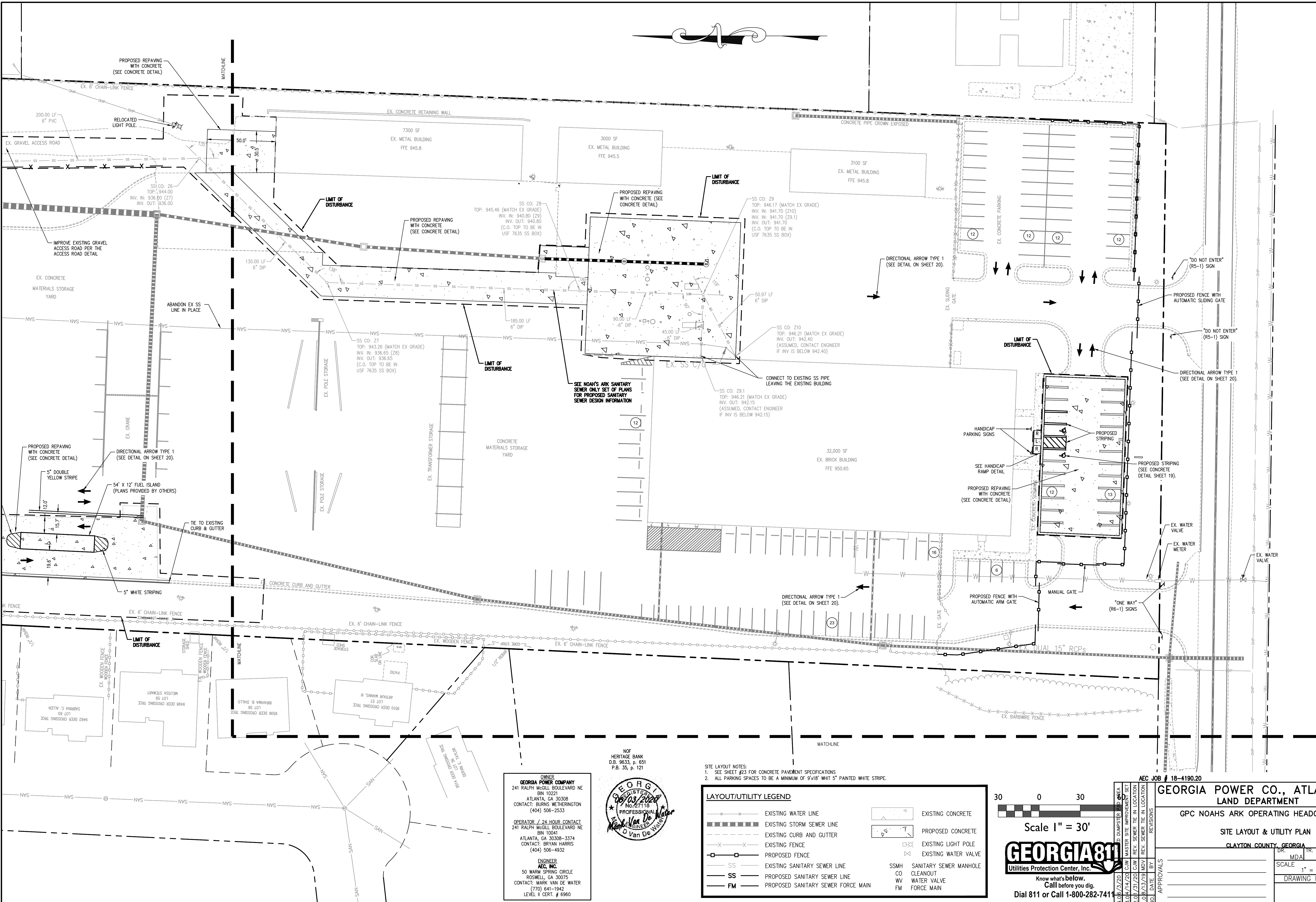
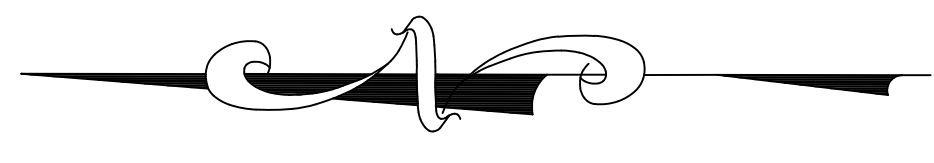
GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAH'S ARK OPERATING HEADQUARTERS
 SITE LAYOUT & UTILITY PLAN
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE		DATE	
1" = 30'		5/17/2019	
DRAWING No.		SHEET No.	
		7 OF 30	

APPROVALS

NO.	DATE	BY

4.08/3/20 CWM ADDED DUMPSTER PAD AREA
 3.08/7/19/20 CWM MASTER SITE IMPROVEMENT SET
 2.08/1/21/20 CWM REV. SEWER TIE IN LOCATION
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NOF HERITAGE BANK D.B. 9633, p. 651 P.B. 35, p. 121



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LEVEL II CERT. # 6960

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2. ALL PARKING SPACES TO BE A MINIMUM OF 9'X18' WITH 5" PAINTED WHITE STRIPE.

LAYOUT/UTILITY LEGEND

	EXISTING WATER LINE		EXISTING CONCRETE
	EXISTING STORM SEWER LINE		PROPOSED CONCRETE
	EXISTING CURB AND GUTTER		EXISTING LIGHT POLE
	EXISTING FENCE		EXISTING WATER VALVE
	PROPOSED FENCE		SSMH SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER LINE		CO CLEANOUT
	PROPOSED SANITARY SEWER LINE		WV WATER VALVE
	PROPOSED SANITARY SEWER FORCE MAIN		FM FORCE MAIN

Scale 1" = 30'

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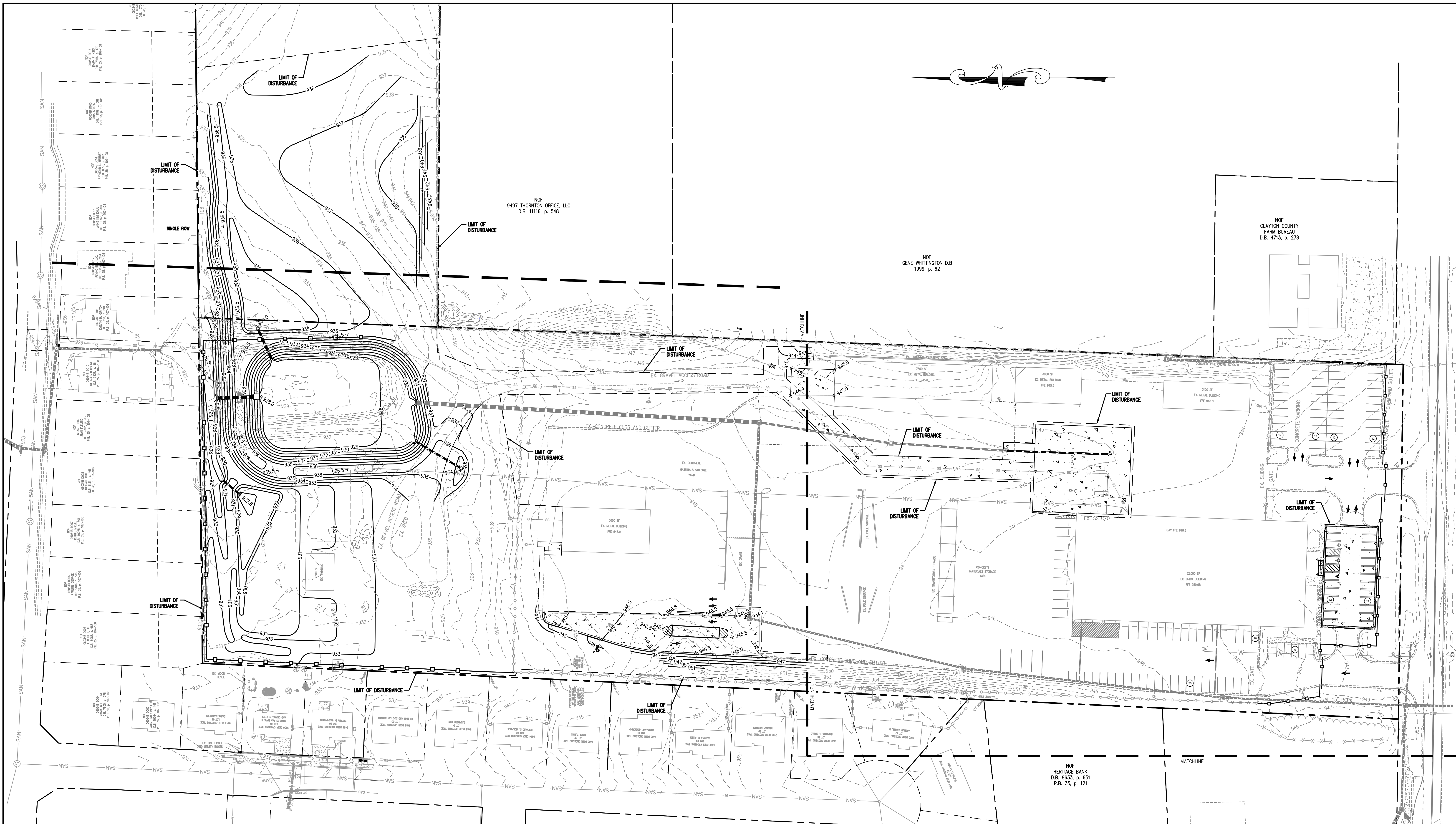
GEORGIA POWER CO., ATLANTA, GA.
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GPC NOAHS ARK OPERATING HEADQUARTERS

SITE LAYOUT & UTILITY PLAN
CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE		DATE	
1" = 30'		5/17/2019	
DRAWING No.		SHEET No.	
		8 OF 30	

APPROVALS

NO.	DATE	BY
4.08.19/3/20		
3.04.19/2/20		
2.01.19/2/20		
1.08.19/1/19		



LEGEND

	PROPOSED LIMITS OF DISTURBANCE
	PROPERTY/RIGHT-OF-WAY LINE
	PROPOSED STORM PIPE
	EXISTING GRADE
	PROPOSED GRADE
	SPOT GRADE

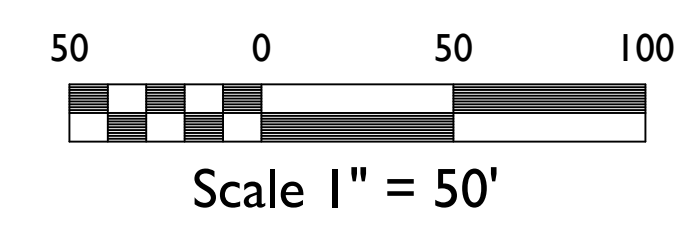
LEGEND:

JB	- JUNCTION BOX
DI	- GRATE INLET
PI	- PEDESTAL INLET
OCS	- OUTLET CONTROL STRUCTURE
HW	- HEADWALL
SES	- SAFETY END SECTION
RCP	- REINFORCED CONCRETE PIPE
HDPE	- HIGH DENSITY POLYETHYLENE PIPE

OWNER
 GEORGIA POWER COMPANY
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NO. DATE BY REVISIONS

4.08/3/20	CJM	ADDED DUMPSTER PAD AREA
3.04/1/14	CJM	MASTER SITE IMPROVEMENT SET
2.01/3/10	CJM	REV. SEWER TIE IN LOCATION
1.08/1/19	MDV	REV. SEWER TIE IN LOCATION

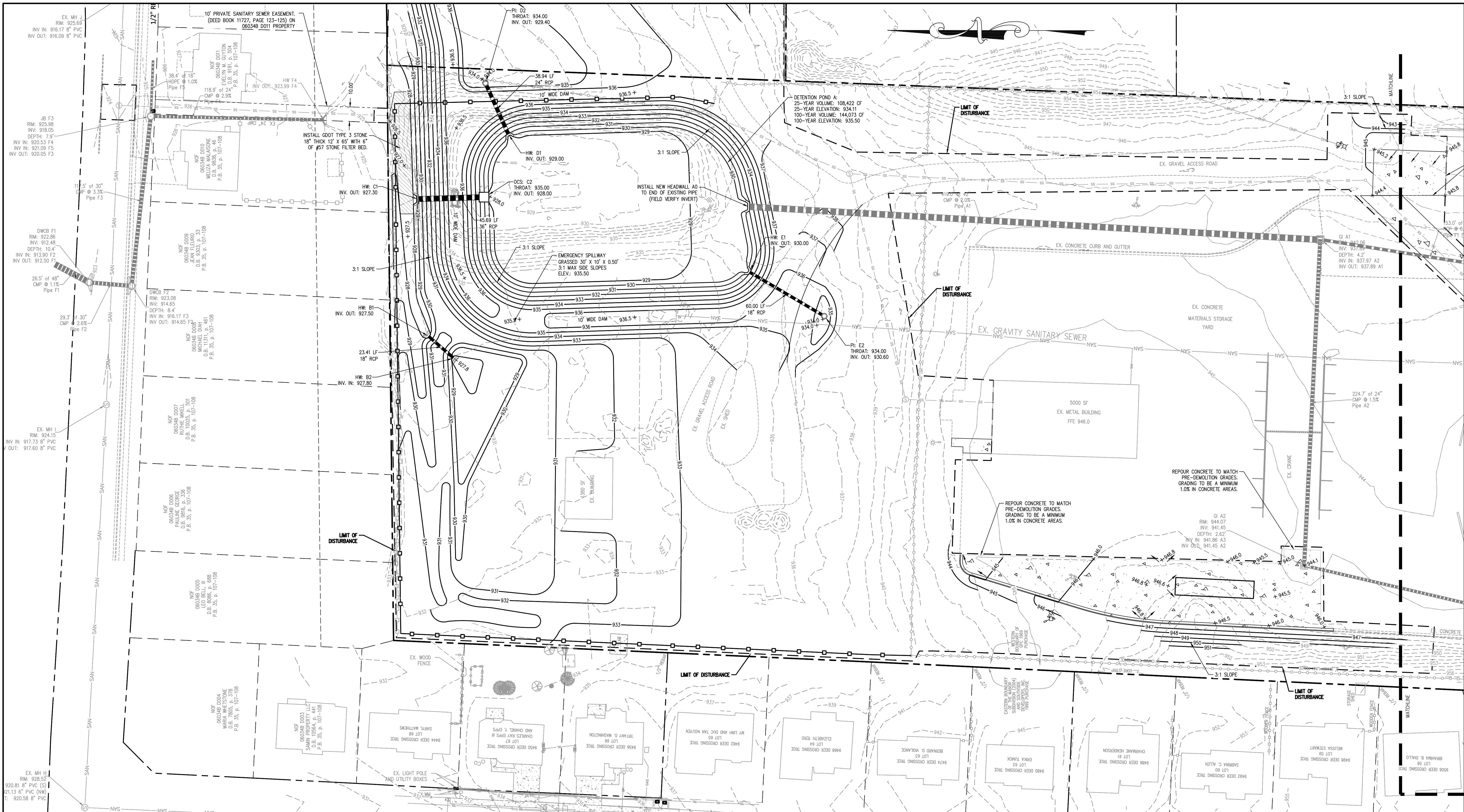
APPROVALS

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE 1" = 50'		DATE 5/17/2019	
DRAWING No.		SHEET No.	
		9 OF 30	

NO. DATE BY REVISIONS

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS
 OVERALL GRADING & DRAINAGE PLAN
 CLAYTON COUNTY, GEORGIA

AEC JOB # 18-4190.20



LEGEND

	PROPOSED LIMITS OF DISTURBANCE
	PROPERTY/RIGHT-OF-WAY LINE
	PROPOSED STORM PIPE
	EXISTING GRADE
	PROPOSED GRADE
	SPOT GRADE

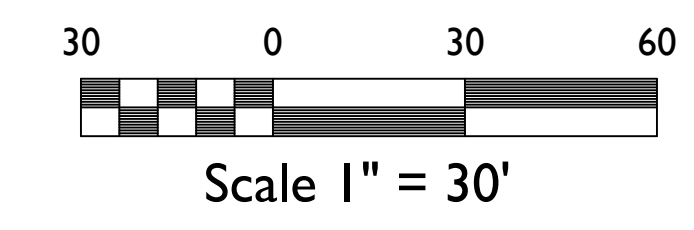
LEGEND:

JB	- JUNCTION BOX
DI	- GRATE INLET
PI	- PEDESTAL INLET
OCS	- OUTLET CONTROL STRUCTURE
HW	- HEADWALL
SES	- SAFETY END SECTION
RCP	- REINFORCED CONCRETE PIPE
HDPE	- HIGH DENSITY POLYETHYLENE PIPE

OWNER
GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
 BUN 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
 241 RALPH MCGILL BOULEVARD NE
 BUN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
 (404) 506-4932

ENGINEER
AEC, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6960



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AEC JOB # 18-4190-20

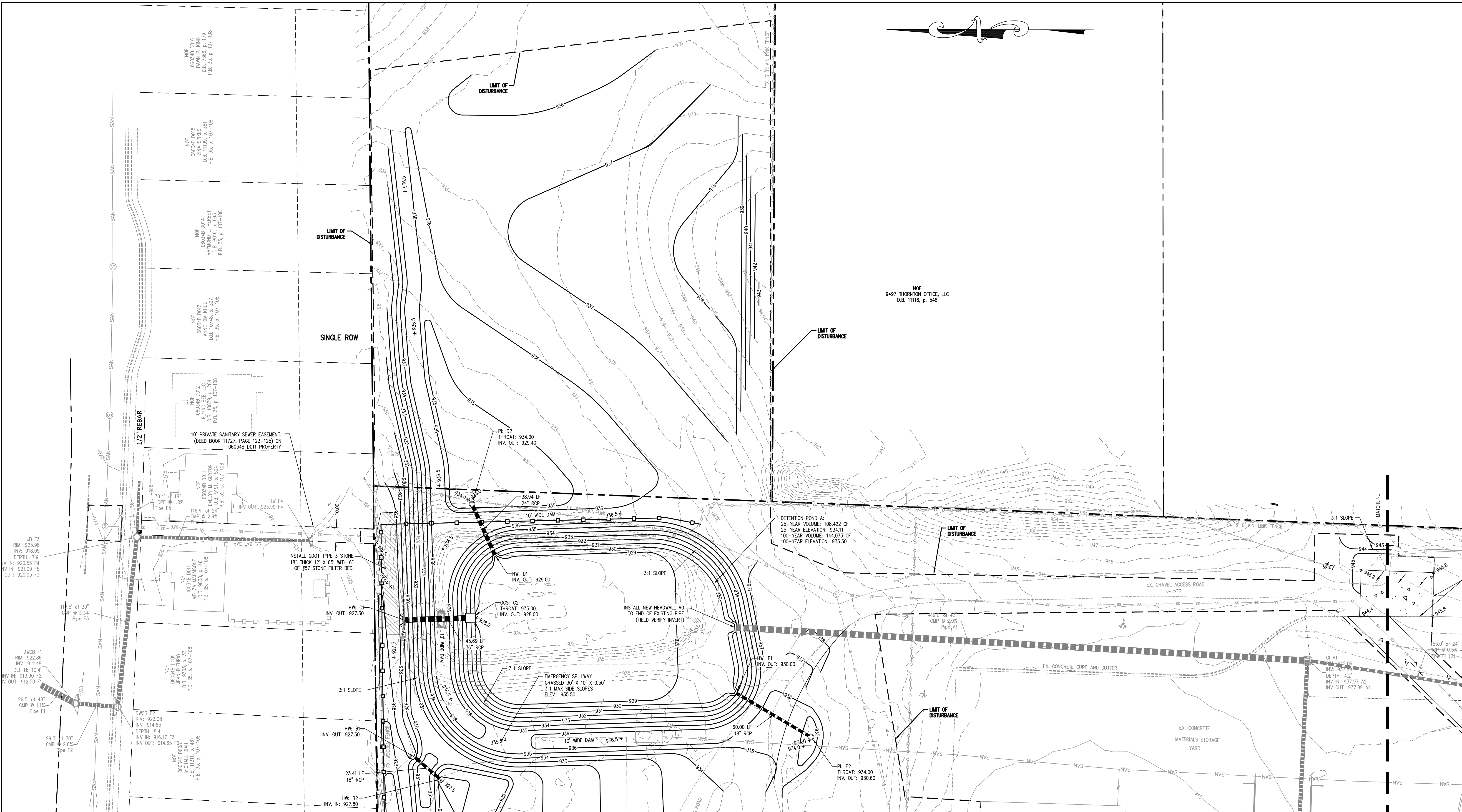
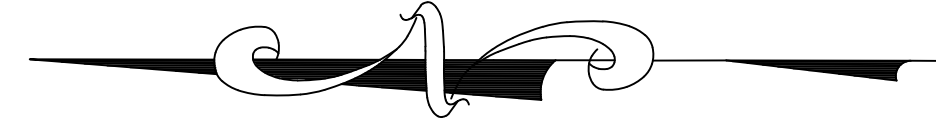
GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS

SITE GRADING & DRAINAGE PLAN
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE	1" = 30'		DATE
DRAWING No.			5/17/2019
SHEET No.			10 OF 30

APPROVALS

NO.	DATE	BY
4.08/3/20		
3.04/7/20		
2.01/3/20		
1.08/1/19		



LEGEND

	PROPOSED LIMITS OF DISTURBANCE
	PROPERTY/RIGHT-OF-WAY LINE
	PROPOSED STORM PIPE
	EXISTING GRADE
	PROPOSED GRADE
	SPOT GRADE

LEGEND:

JB	- JUNCTION BOX
DI	- GRATE INLET
PI	- PEDESTAL INLET
OCS	- OUTLET CONTROL STRUCTURE
HW	- HEADWALL
SES	- SAFETY END SECTION
RCP	- REINFORCED CONCRETE PIPE
HDPE	- HIGH DENSITY POLYETHYLENE PIPE

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 241 RALPH MCGILL BOULEVARD NE
 BLDG 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

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 LEVEL II CERT. # 6960



Scale 1" = 30'



AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT

GPC NOAHS ARK OPERATING HEADQUARTERS

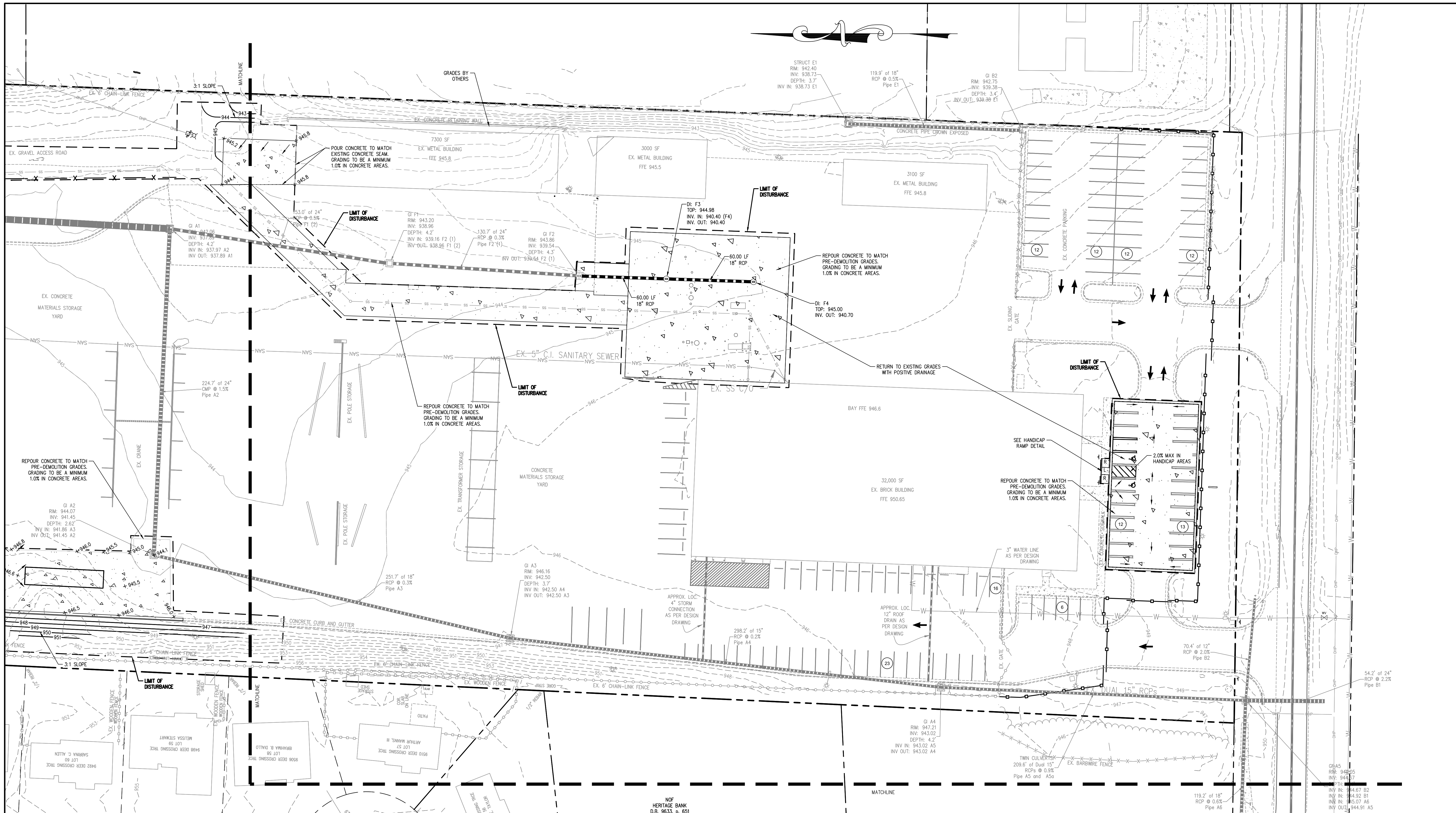
SITE GRADING & DRAINAGE PLAN

CLAYTON COUNTY, GEORGIA

NO.	DATE	BY	REVISIONS
4.08/3/20	CJM		ADDED DUMPSTER PAD AREA
3.04/7/14/20	CJM		MASTER SITE IMPROVEMENT SET
2.01/3/21/20	CJM		REV. SEWER TIE IN LOCATION
1.08/7/13/19	MDV		REV. SEWER TIE IN LOCATION

DR.	MDA	TR.	CRK
SCALE	1" = 30'		DATE
DRAWING No.			SHEET No.
			11 OF 30

MA2018 JOB#18-4190 GPC NoAhs Ark OHQ CDD.dwg, 6/2/2020 5:52:08 PM, Kit_ARCH full bleed D (24.00 x 36.00 inches), 1:1



LEGEND

	PROPOSED LIMITS OF DISTURBANCE
	PROPERTY/RIGHT-OF-WAY LINE
	PROPOSED STORM PIPE
	EXISTING GRADE
	PROPOSED GRADE
	SPOT GRADE

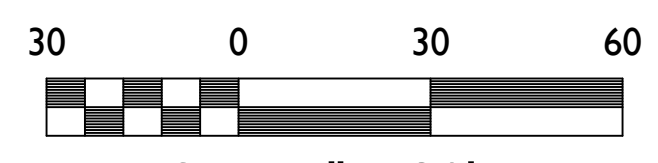
LEGEND:

JB	- JUNCTION BOX
DI	- GRATE INLET
PI	- PEDESTAL INLET
OCS	- OUTLET CONTROL STRUCTURE
HW	- HEADWALL
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 ATLANTA, GA 30309-3374
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ENGINEER
AEC, INC.
 50 WARM SPRING CIRCLE
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 LEVEL II CERT. # 6960



Scale 1" = 30'

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AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS

SITE GRADING & DRAINAGE PLAN
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE	1" = 30'	DATE	5/17/2019
DRAWING No.		SHEET No.	12 OF 30

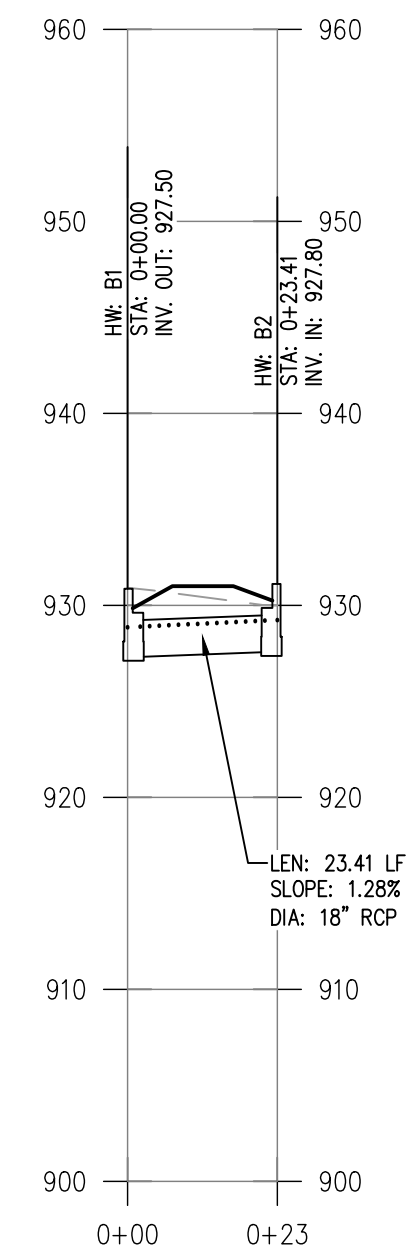
APPROVALS

NO.	DATE	BY

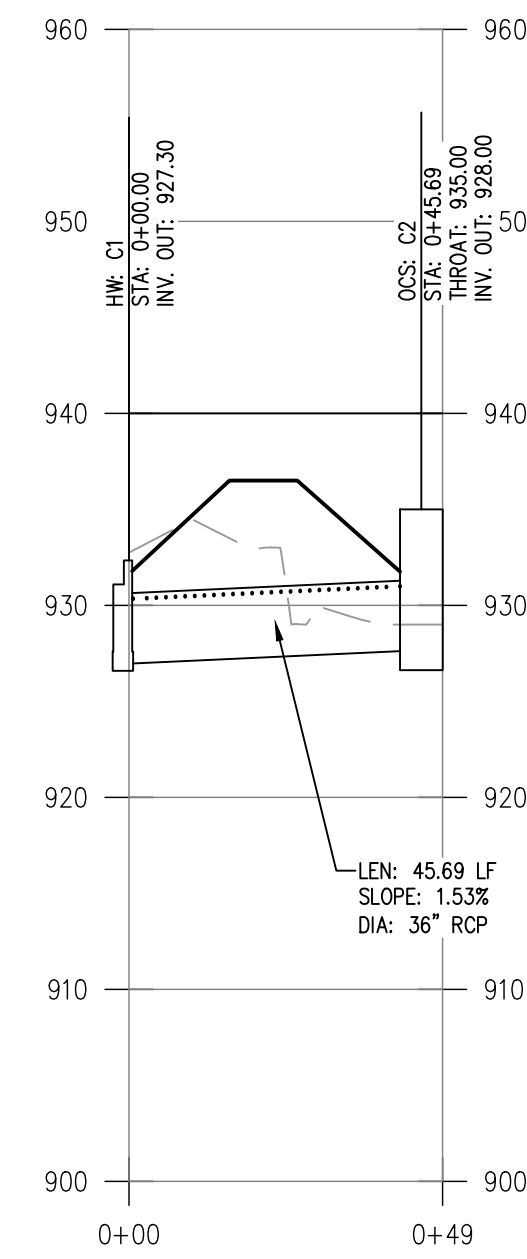
REVISIONS

NO.	DATE	BY	DESCRIPTION
4.08/3/20	CJM	ADDED DUMPMETER PAD AREA	
3.04/7/19	CJM	MASTER SITE IMPROVEMENT SET	
2.01/3/17/20	CJM	REV. SEWER TIE IN LOCATION	
1.08/13/19	MDV	REV. SEWER TIE IN LOCATION	

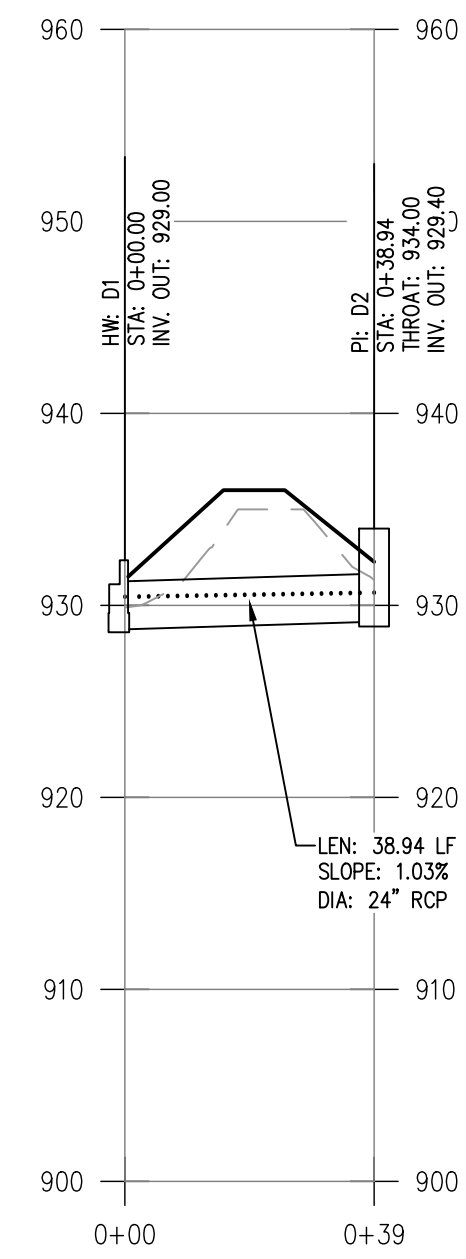
STORM B1-B2



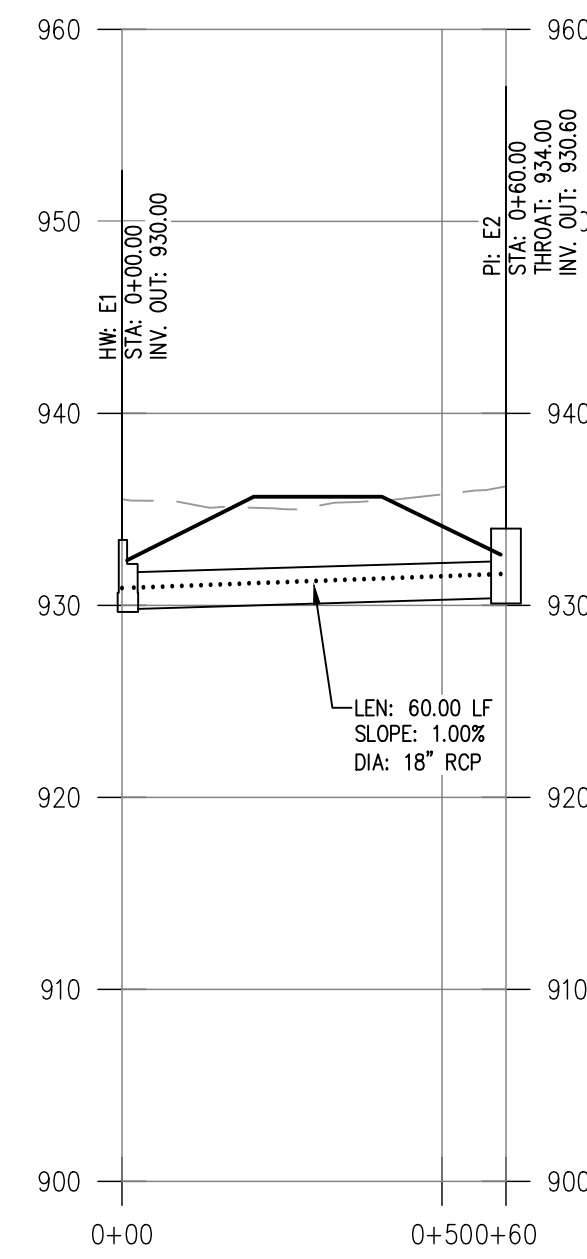
STORM C1-C2



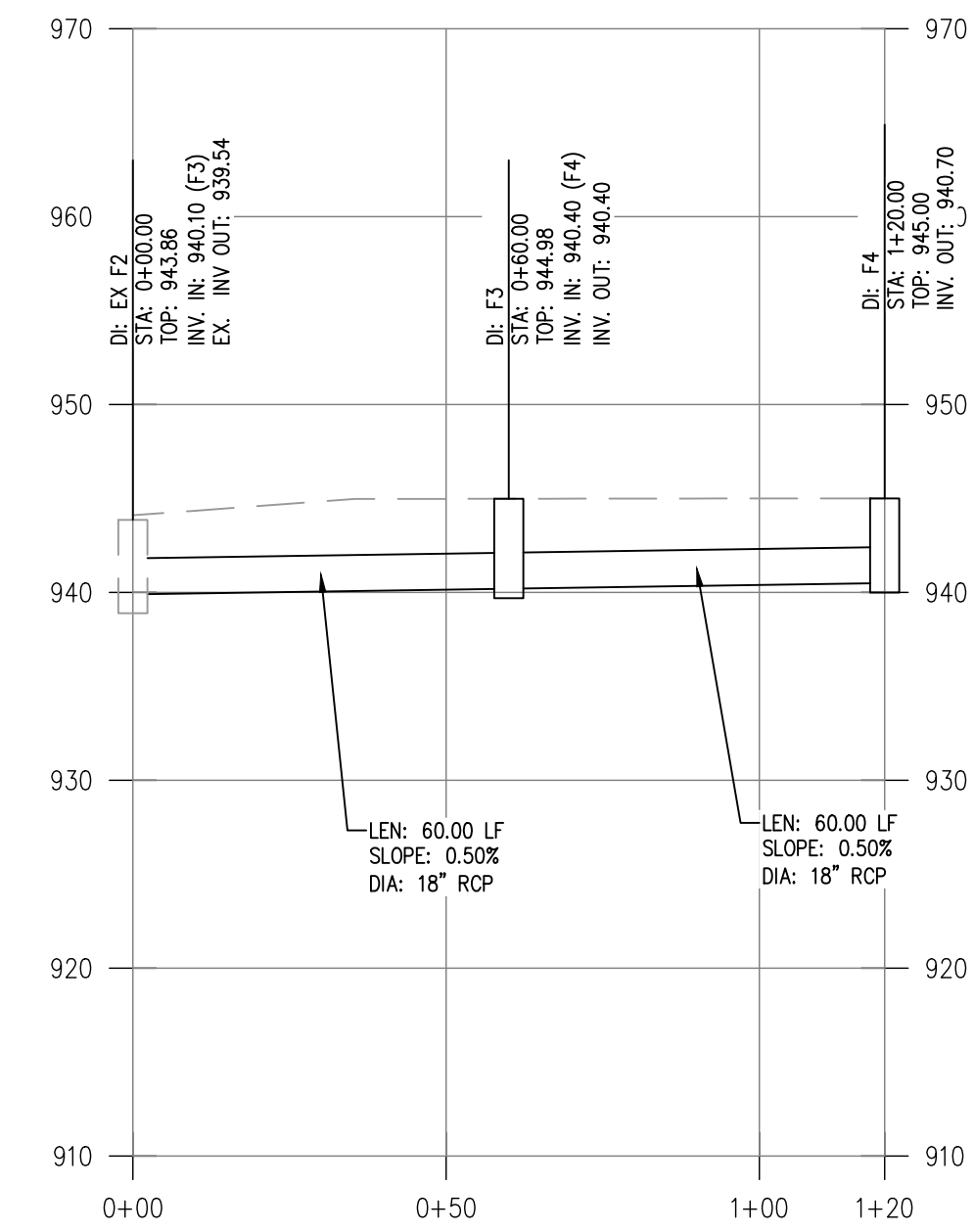
STORM D1-D2



STORM E1-E2



STORM LINE EX-F2 TO F4



LEGEND:

— — PROPOSED GRADE
 - - - - EXISTING GRADE

DI - DROP INLET
 JB - JUNCTION BOX
 OCS - OUTLET CONTROL STRUCTURE
 HW - HEADWALL
 SES - SAFETY END SECTION
 HDPE - HIGH DENSITY POLYETHYLENE (PIPE)
 RCP - REINFORCED CONCRETE PIPE
 DIP - DUCTILE IRON PIPE
 FM - FORCE MAIN
 STA - STATION

SCALE:
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

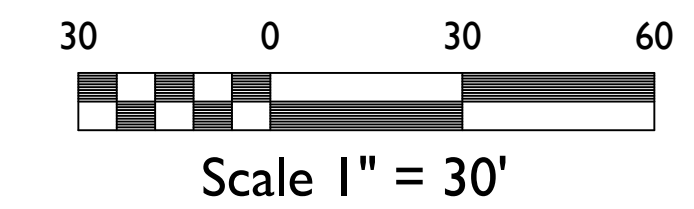
25 YEAR PIPE CHART

Line	ToLine	Line Length (ft)	Incr.Area (ac)	Total Area (ac)	Runoff Coeff. (C)	IncrC x A	TotalC x A	InletT time (min)	Time Conc (min)	RnfallInt (in/hr)	Total Runoff (cfs)	AdnlFlow (cfs)	Total Flow (cfs)	CapacFull (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID
1	Outfall	23.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.11	11.11	12.88	6.94	18.00	1.28	927.50	927.80	928.77	929.07	930.25	930.55	B2
2	Outfall	45.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.90	85.90	188.78	10.13	42.00	1.53	927.30	928.00	930.18	931.38	930.25	935.00	C2
3	Outfall	38.94	2.15	2.15	0.50	1.08	1.08	5.00	5.00	9.00	9.72	0.00	9.72	18.26	5.41	24.00	1.03	929.00	929.40	930.11	930.36	931.75	934.00	D2
4	Outfall	60.00	0.65	0.65	0.20	0.13	0.13	5.00	5.00	9.00	1.18	0.00	1.18	12.22	3.05	18.00	1.00	930.00	930.60	930.41	931.01	932.97	934.00	E2

OWNER
GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
 BIN 10221
 ATLANTA, GA 30308
 CONTACT: BURNS WEATHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
 241 RALPH MCGILL BOULEVARD NE
 BIN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
 (404) 506-4932

ENGINEER
AEC, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6960



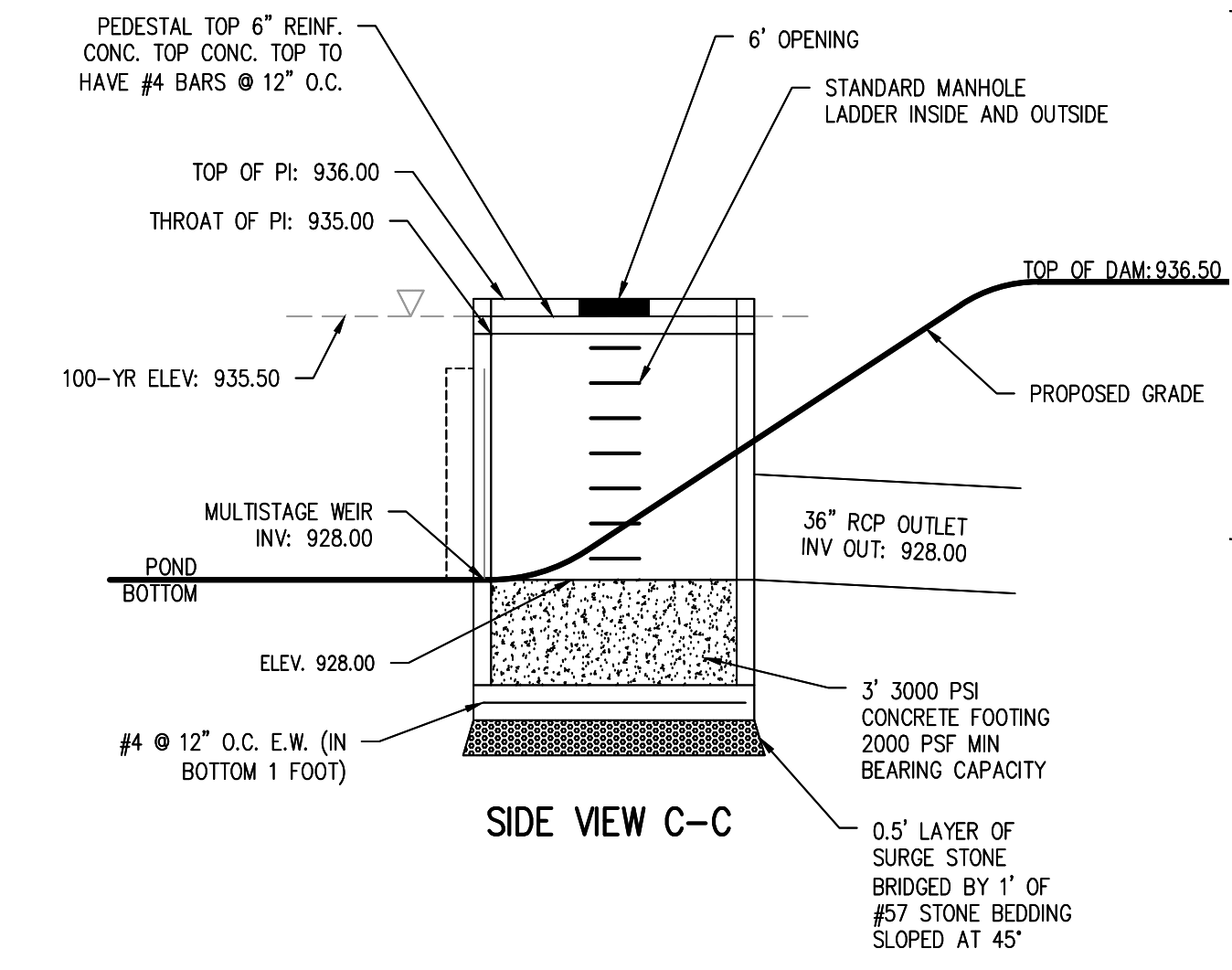
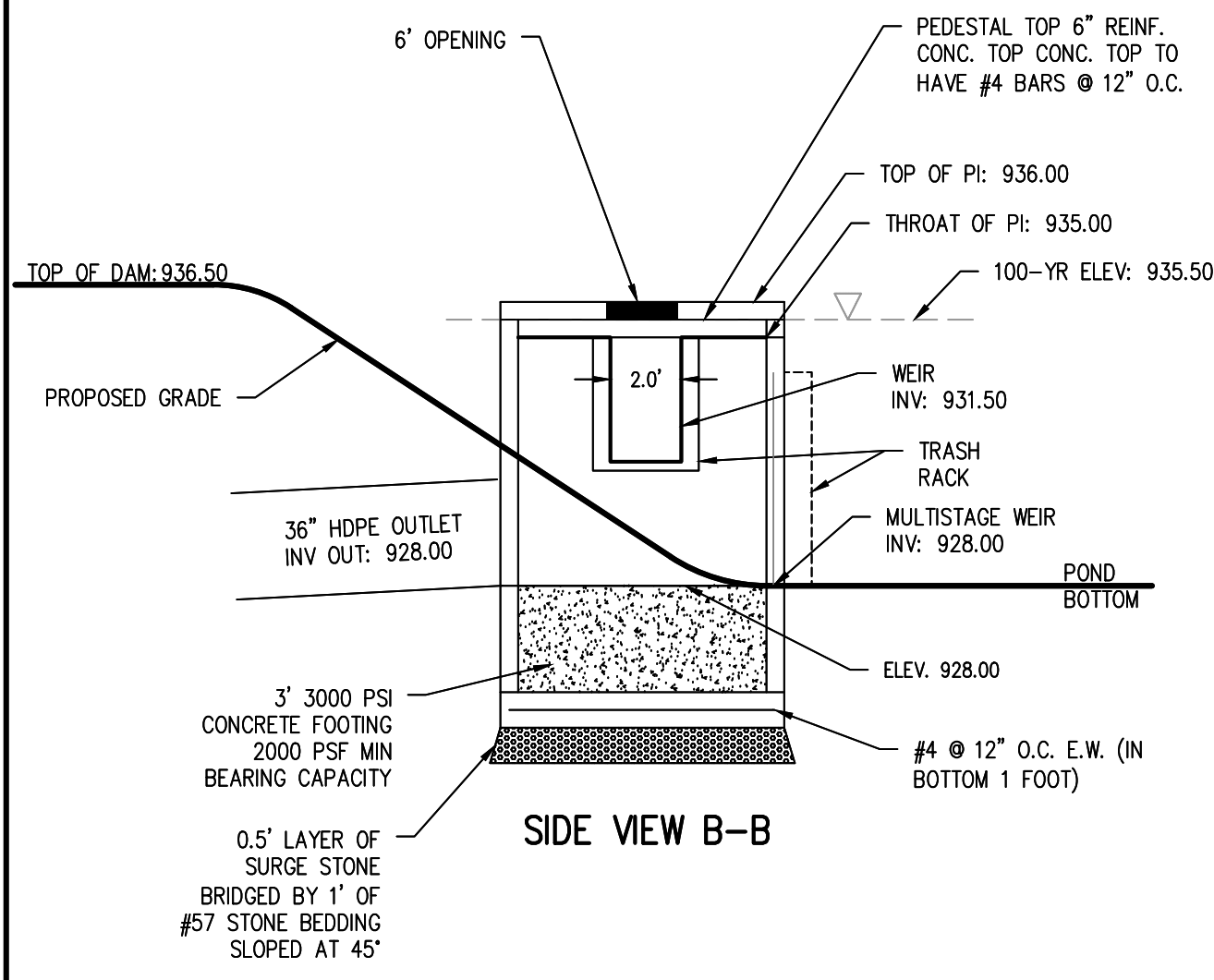
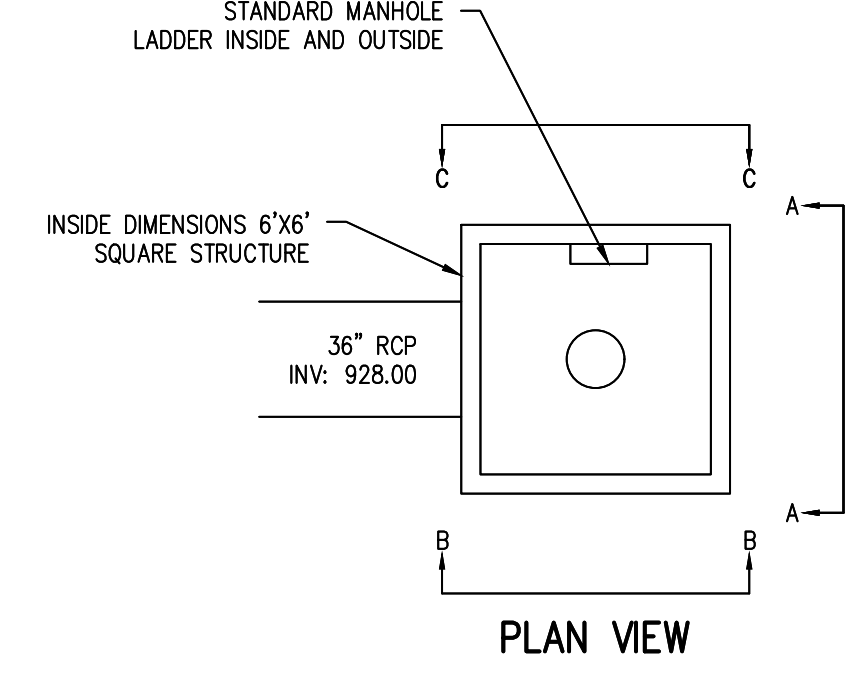
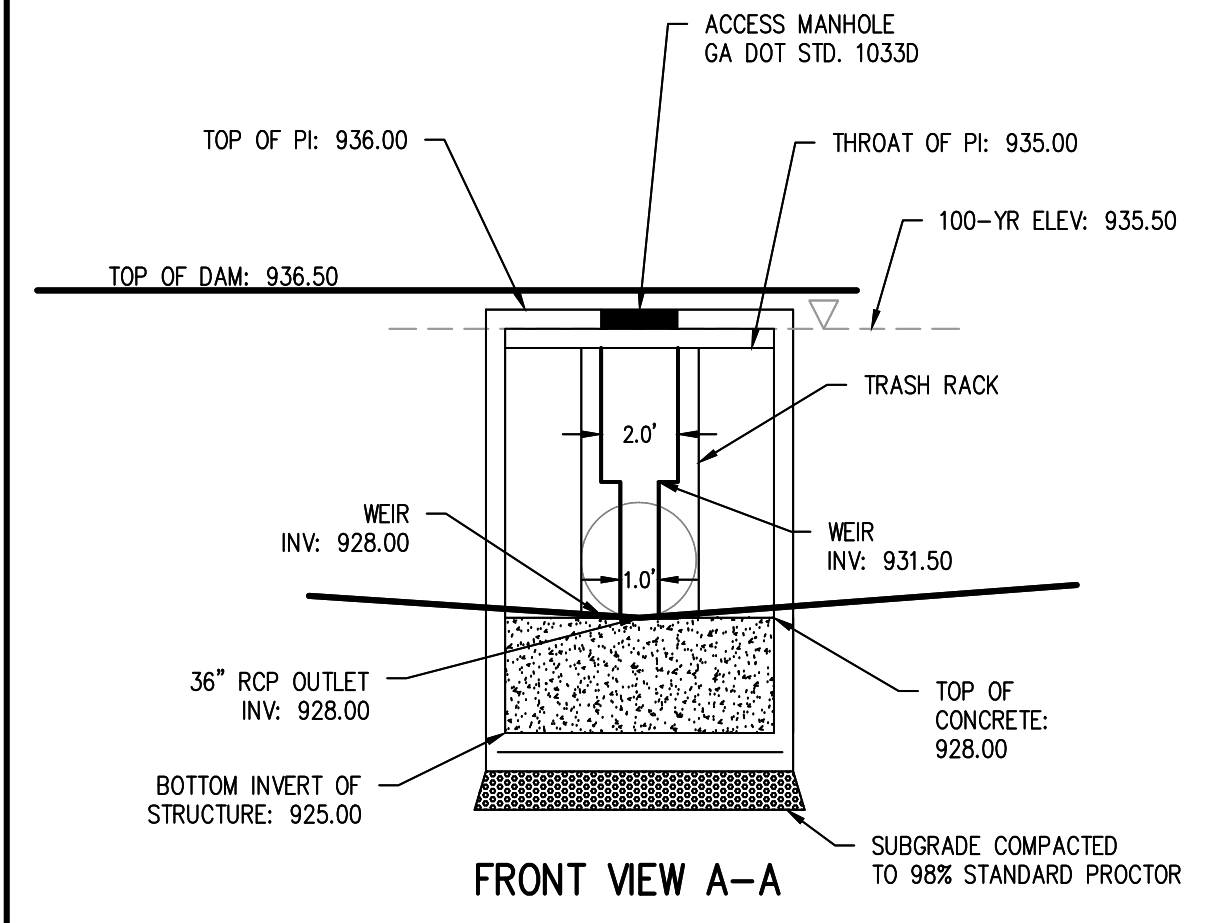
AEC JOB # 18-4190.20

**GEORGIA POWER CO., ATLANTA, GA.
 LAND DEPARTMENT**

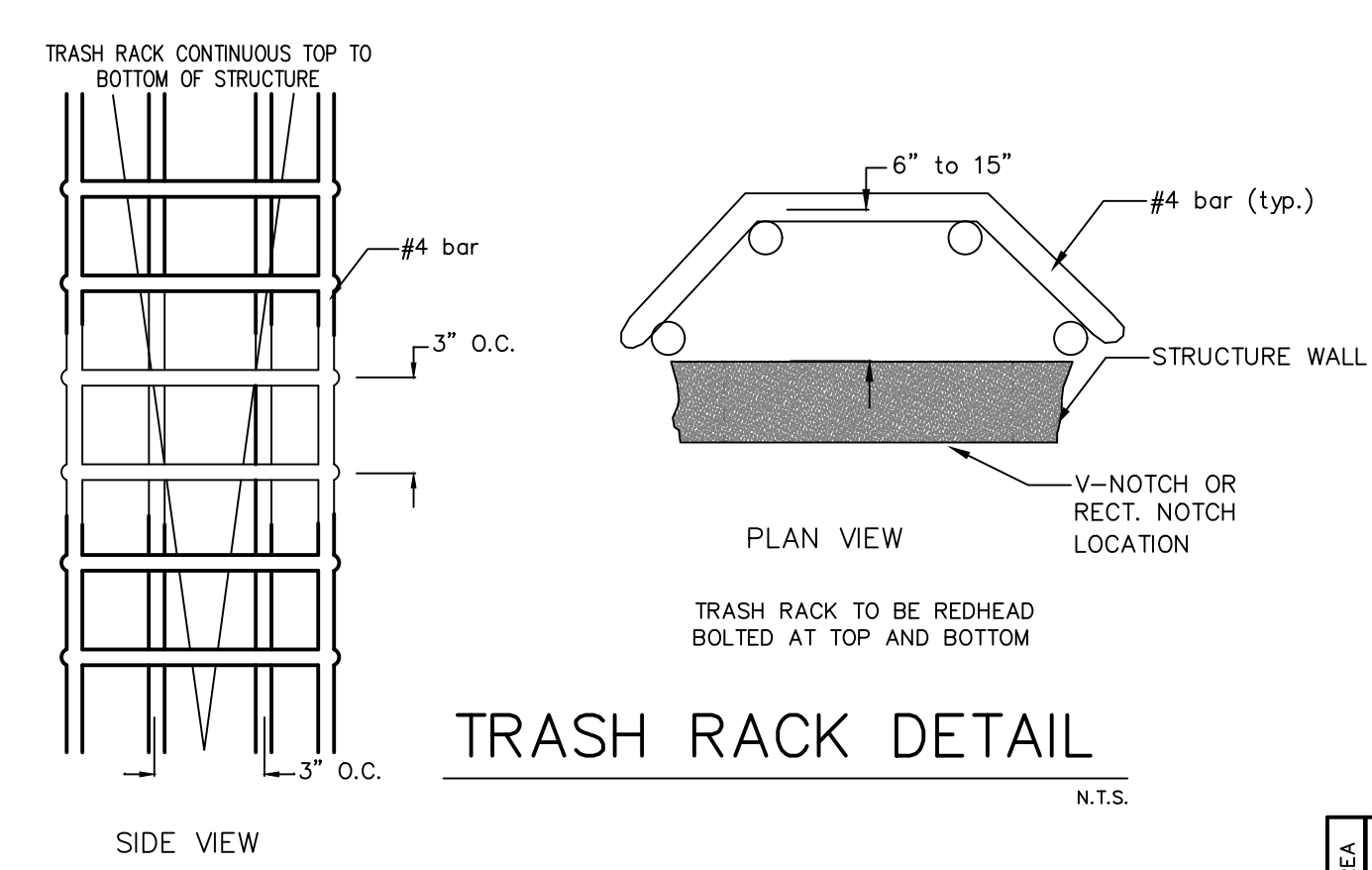
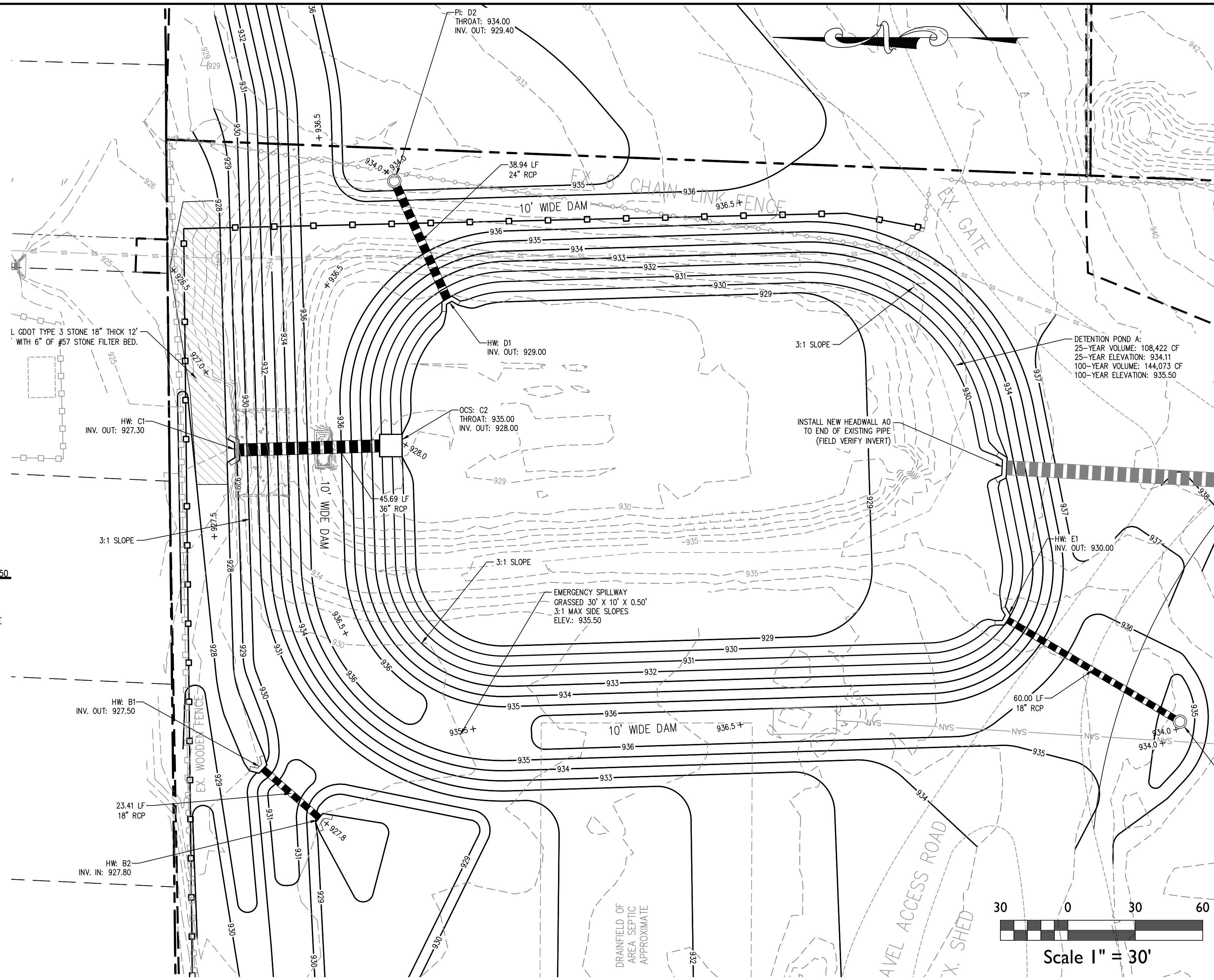
GPC NOAHS ARK OPERATING HEADQUARTERS

STORM PIPE PROFILES
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE	1" = 30'		DATE
			5/17/2019
DRAWING No.			SHEET No.
			13 OF 30



NEW 6' X 6' OUTLET CONTROL STRUCTURE - POND "A"
SCALE: 1" = 5'



OWNER
GEORGIA POWER COMPANY
241 RALPH MCGILL BOULEVARD NE
BN 10221
ATLANTA, GA 30308
CONTACT: BURNS WETHERINGTON
(404) 506-2533

OPERATOR / 24 HOUR CONTACT
241 RALPH MCGILL BOULEVARD NE
BN 10041
ATLANTA, GA 30308-3374
CONTACT: BRYAN HARRIS
(404) 506-4932

ENGINEER
AEC, INC.
50 WARM SPRING CIRCLE
ROSWELL, GA 30075
CONTACT: MARK VAN DE WATER
(770) 641-1942
LEVEL II CERT. # 6960



AEC JOB # 18-4190.20

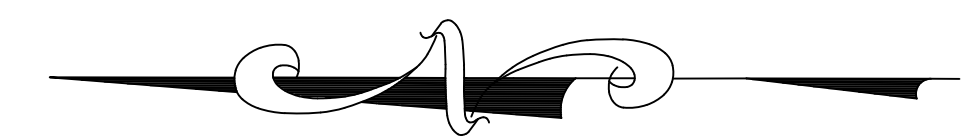
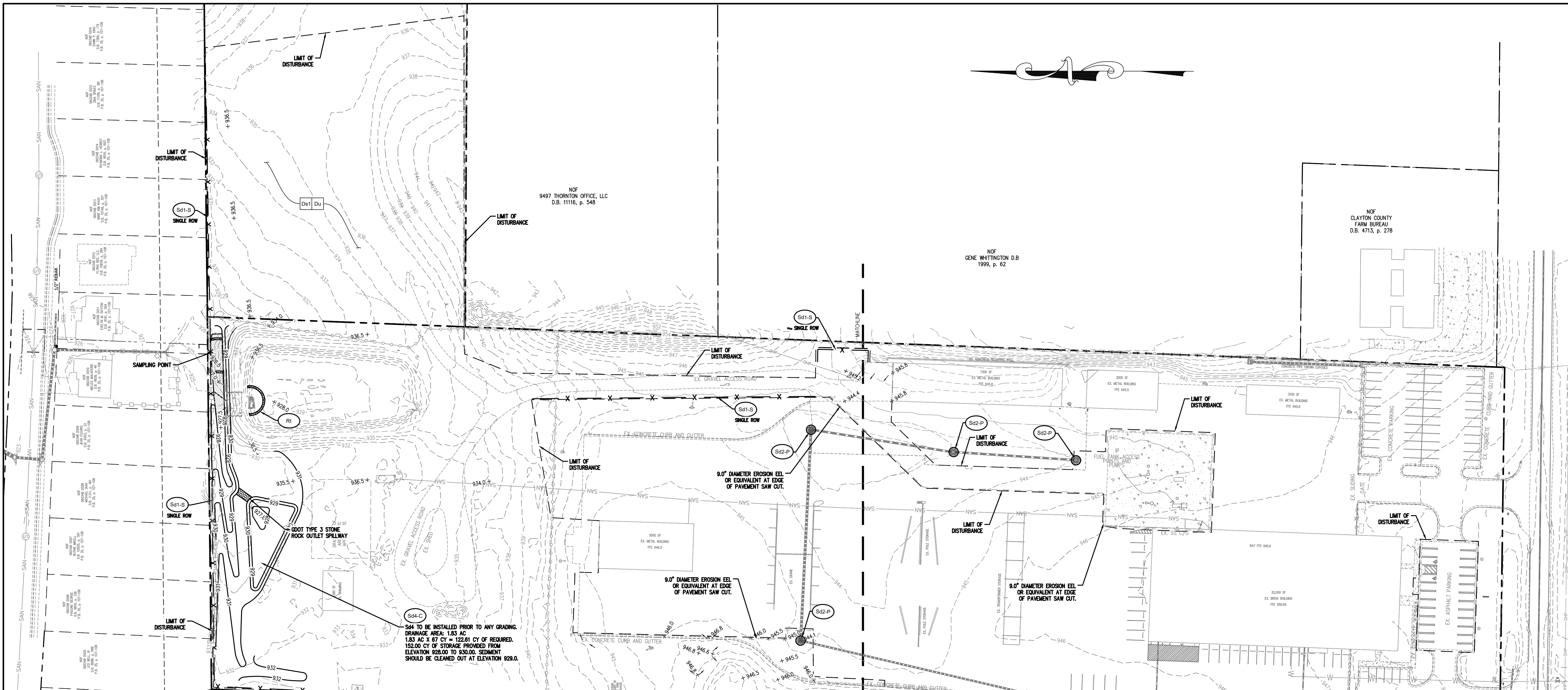
DR. MDA TR. CRK. CJW/MDV

SCALE VARIES DATE 5/17/2019

DRAWING No. SHEET No.

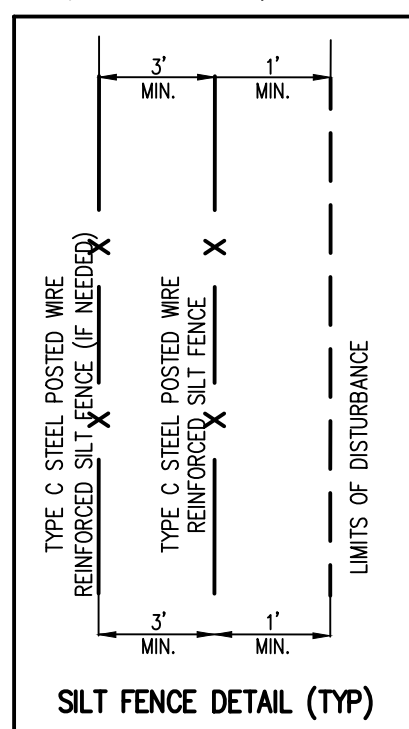
14 OF 30

NO.	DATE	BY	REVISIONS
4.0	4/3/20	ECW	ADDED DUMPSTER PAD AREA
3.0	4/14/20	ECW	MASTER SITE IMPROVEMENT SET
2.0	3/21/20	ECW	REV. SEWER TIE IN LOCATION
1.0	8/13/19	MDV	REV. SEWER TIE IN LOCATION



EROSION CONTROL LEGEND

- Ds1 MULCH
- Ds2 DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
- Du DUST CONTROL
- Co CONSTRUCTION EXIT
- Fr FILTER RING
- Sd1 SILT BARRIER
- Sd2 SEDIMENT TRAP TEMPORARY
- Cd-S STONE CHECKDAM
- Cd-H HAYBALE CHECKDAM
- Ch-2 CHANNEL PROTECTION - RIP RAP
- Sk SKIMMER
- St STORM DRAIN OUTLET PROTECTION
- Re RETAINING WALL
- Su SURFACE ROUGHENING
- Ss SLOPE STABILIZATION (LANOLIN OR EROSION CONTROL BLANKET OR APPROVED EQUIVALENT)



GRASS NOTES:

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH. CONTRACTOR TO APPLY GRASS & MULCH UNTIL ALL DISTURBED AREAS ARE STABILIZED. THIS MAY REQUIRE MULTIPLE GRASSING APPLICATIONS. SEE GRASSING SCHEDULE AND EROSION CONTROL NOTES ON EROSION CONTROL NOTES & DETAILS ON SHEETS 25-30.

GENERAL SEDIMENT & EROSION CONTROL SCHEDULE:

- PHASE/STAGE 1: CLEARING & GRUBBING AND DEMOLITION
- INSTALL PHASE 1 PERIMETER SILT FENCE TYPE 'S'
- INSTALL PHASE 1 TEMPORARY SEDIMENT TRAP
- REMOVE EXISTING PAVEMENT IN DESIGNATED AREAS
- CLEARING & GRUBBING
- SPREAD TEMPORARY MULCH WHEN APPLICABLE
- APPLY DUST CONTROL WHEN NECESSARY
- MAINTAIN PHASE 1 BMP'S
- INSTALL RETROFIT FILTER RING ON EXISTING OCCS

NOTE:

-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.

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

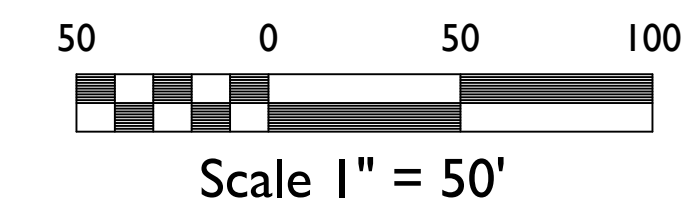
-ANY DISTURBED AREA LEFT EXPOSED AND IDOL FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH.

-NO STREAMSIDE MANAGEMENT ZONES WERE IDENTIFIED BY GEORGIA POWER ENVIRONMENTAL AFFAIRS.

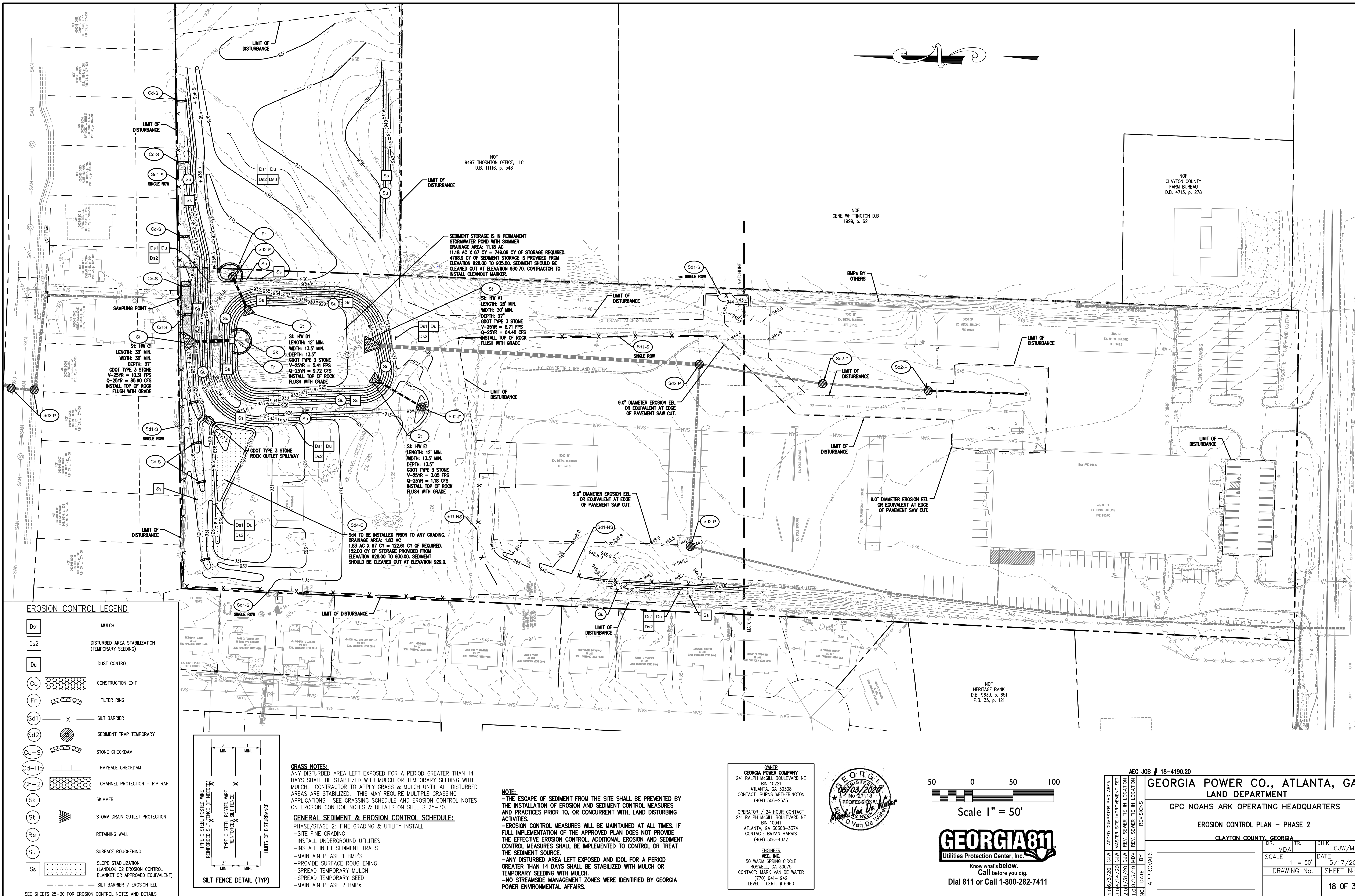
OWNER
GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
GEORGIA811
 241 RALPH MCGILL BOULEVARD NE
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
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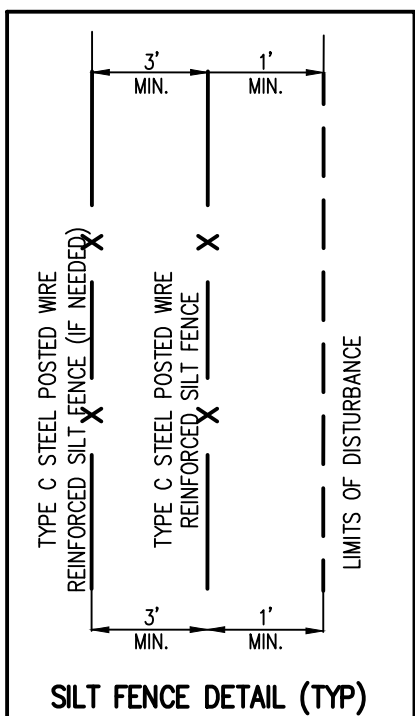


AEC JOB # 18-4190.20		GEORGIA POWER CO., ATLANTA, GA.	
		LAND DEPARTMENT	
		GPC NOAHS ARK OPERATING HEADQUARTERS	
		EROSION CONTROL PLAN - PHASE 1	
		CLAYTON COUNTY, GEORGIA	
APPROVALS	NO. DATE BY	DR. MDA	TR. CJW/MDV
4.08/3/20	CJW	SCALE 1" = 50'	DATE 5/17/2019
3.04/14/20	CJW	DRAWING No.	SHEET No.
2.01/21/20	CJW		
1.08/13/19	MDV		
		17 OF 30	



EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
Du	DUST CONTROL
Co	CONSTRUCTION EXIT
Fr	FILTER RING
Sd1	SILT BARRIER
Sd2	SEDIMENT TRAP TEMPORARY
Cd-S	STONE CHECKDAM
Cd-Hb	HAYBALE CHECKDAM
Ch-2	CHANNEL PROTECTION - RIP RAP
Sk	SKIMMER
St	STORM DRAIN OUTLET PROTECTION
Re	RETAINING WALL
Su	SURFACE ROUGHENING
Ss	SLOPE STABILIZATION (LANDLOCK C2 EROSION CONTROL BLANKET OR APPROVED EQUIVALENT)
- - -	SILT BARRIER / EROSION EEL



GRASS NOTES:
 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH. CONTRACTOR TO APPLY GRASS & MULCH UNTIL ALL DISTURBED AREAS ARE STABILIZED. THIS MAY REQUIRE MULTIPLE GRASSING APPLICATIONS. SEE GRASSING SCHEDULE AND EROSION CONTROL NOTES ON EROSION CONTROL NOTES & DETAILS ON SHEETS 25-30.

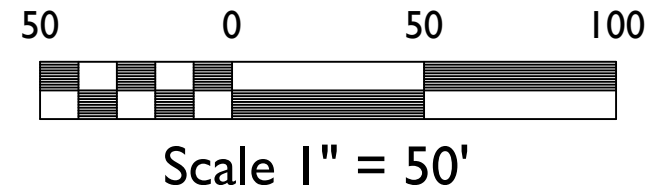
GENERAL SEDIMENT & EROSION CONTROL SCHEDULE:
 PHASE/STAGE 2: FINE GRADING & UTILITY INSTALL
 -SITE FINE GRADING
 -INSTALL UNDERGROUND UTILITIES
 -INSTALL INLET SEDIMENT TRAPS
 -MAINTAIN PHASE 1 BMP'S
 -PROVIDE SURFACE ROUGHENING
 -SPREAD TEMPORARY MULCH
 -SPREAD TEMPORARY SEED
 -MAINTAIN PHASE 2 BMP'S

NOTE:
 -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.
 -EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE THE EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 -ANY DISTURBED AREA LEFT EXPOSED AND IDOL FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH.
 -NO STREAMSIDE MANAGEMENT ZONES WERE IDENTIFIED BY GEORGIA POWER ENVIRONMENTAL AFFAIRS.

OWNER
 GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
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 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
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 ATLANTA, GA 30308-3374
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 LEVEL: B CERT: # 6960



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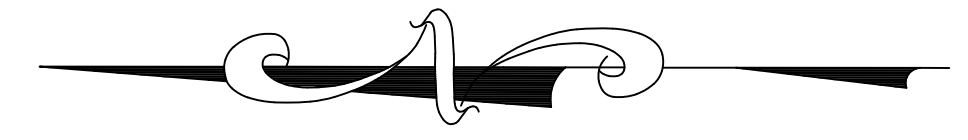
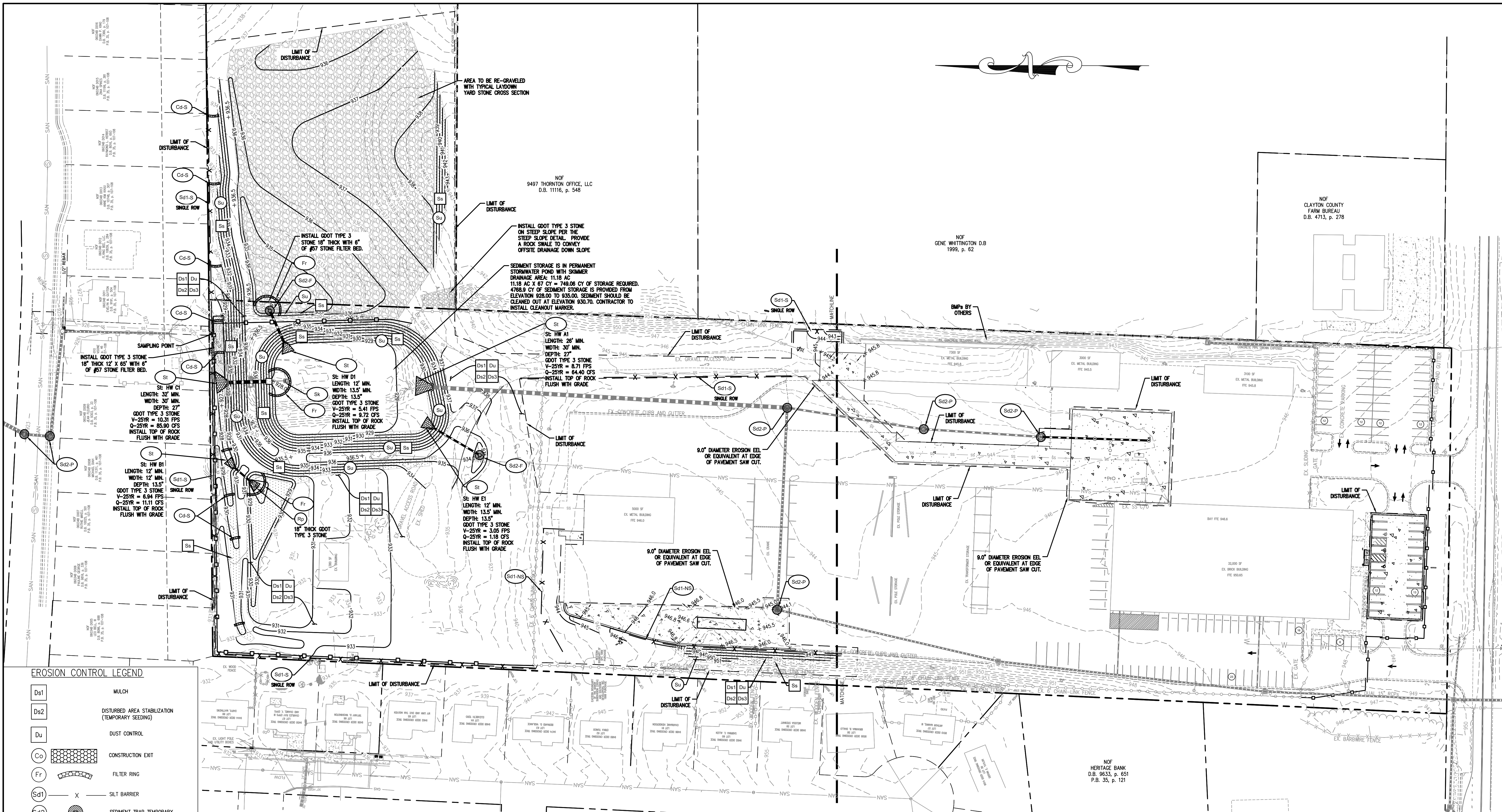
AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
 LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS
 EROSION CONTROL PLAN - PHASE 2
 CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CHK
			CJW/MDV
SCALE	1" = 50'		DATE
			5/17/2019
DRAWING No.			SHEET No.
			18 OF 30

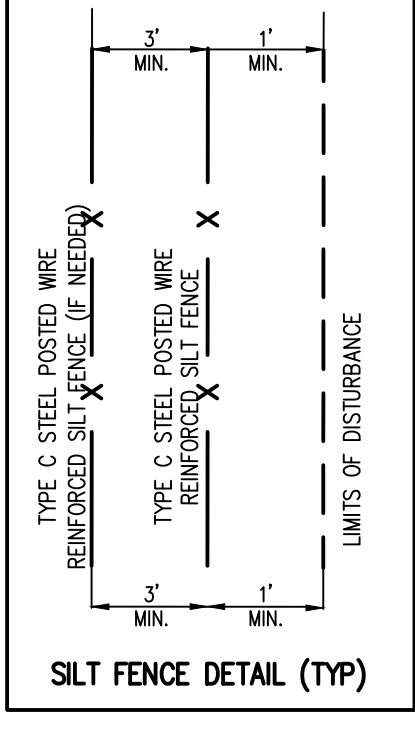
APPROVALS

NO.	DATE	BY



EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
Du	DUST CONTROL
Co	CONSTRUCTION EXIT
Fr	FILTER RING
Sd1	SILT BARRIER
Sd2	SEDIMENT TRAP TEMPORARY
Cd-S	STONE CHECKDAM
Cd-Ht	HAYBALE CHECKDAM
Ch-2	CHANNEL PROTECTION - RIP RAP
Sk	SKIMMER
St	STORM DRAIN OUTLET PROTECTION
Re	RETAINING WALL
Su	SURFACE ROUGHENING
Ss	SLOPE STABILIZATION (LANDLOCK C2 EROSION CONTROL BLANKET OR APPROVED EQUIVALENT)
- - -	SILT BARRIER / EROSION EEL



GRASS NOTES:
 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH. CONTRACTOR TO APPLY GRASS & MULCH UNTIL ALL DISTURBED AREAS ARE STABILIZED. THIS MAY REQUIRE MULTIPLE GRASSING APPLICATIONS. SEE GRASSING SCHEDULE AND EROSION CONTROL NOTES ON EROSION CONTROL NOTES & DETAILS ON SHEETS 25-30.

GENERAL SEDIMENT & EROSION CONTROL SCHEDULE:
 PHASE 3: FINAL GRADING & STABILIZATION

- INSTALL CRUSHER RUN AND ALL OTHER STONE FOR FINAL STABILIZATION
- INSTALL EROSION CONTROL BLANKET ON ANY SLOPES THAT EXCEEDS 10' IN HEIGHT AND 2.5:1 SLOPE OR AS SHOWN ON PLAN.
- APPLY PERMANENT SEEDING
- MAINTAIN RIP-RAP (GDOT TYPE 3 STONE)
- REMOVE ALL PHASES OF BMP'S*

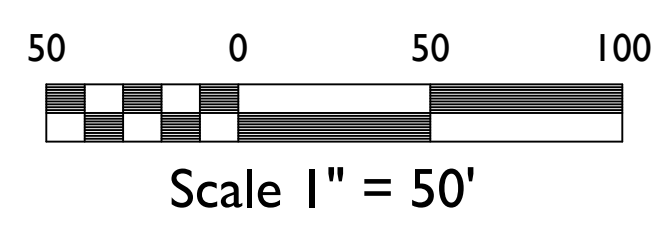
*AFTER FINAL STABILIZATION HAS OCCURRED

NOTE:
 - 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.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE THE EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - ANY DISTURBED AREA LEFT EXPOSED AND IDOL FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING WITH MULCH.
 - NO STREAMSIDE MANAGEMENT ZONES WERE IDENTIFIED BY GEORGIA POWER ENVIRONMENTAL AFFAIRS.

OWNER
 GEORGIA POWER COMPANY
 241 RALPH MAGILL BOULEVARD NE
 BIN 10221
 ATLANTA, GA 30308
 CONTACT: BRYAN WETHERINGTON
 (404) 506-2533

OPERATOR / 24 HOUR CONTACT
 241 RALPH MAGILL BOULEVARD NE
 BIN 10041
 ATLANTA, GA 30308-3374
 CONTACT: BRYAN HARRIS
 (404) 506-4932

ENGINEER
 AEG, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6560

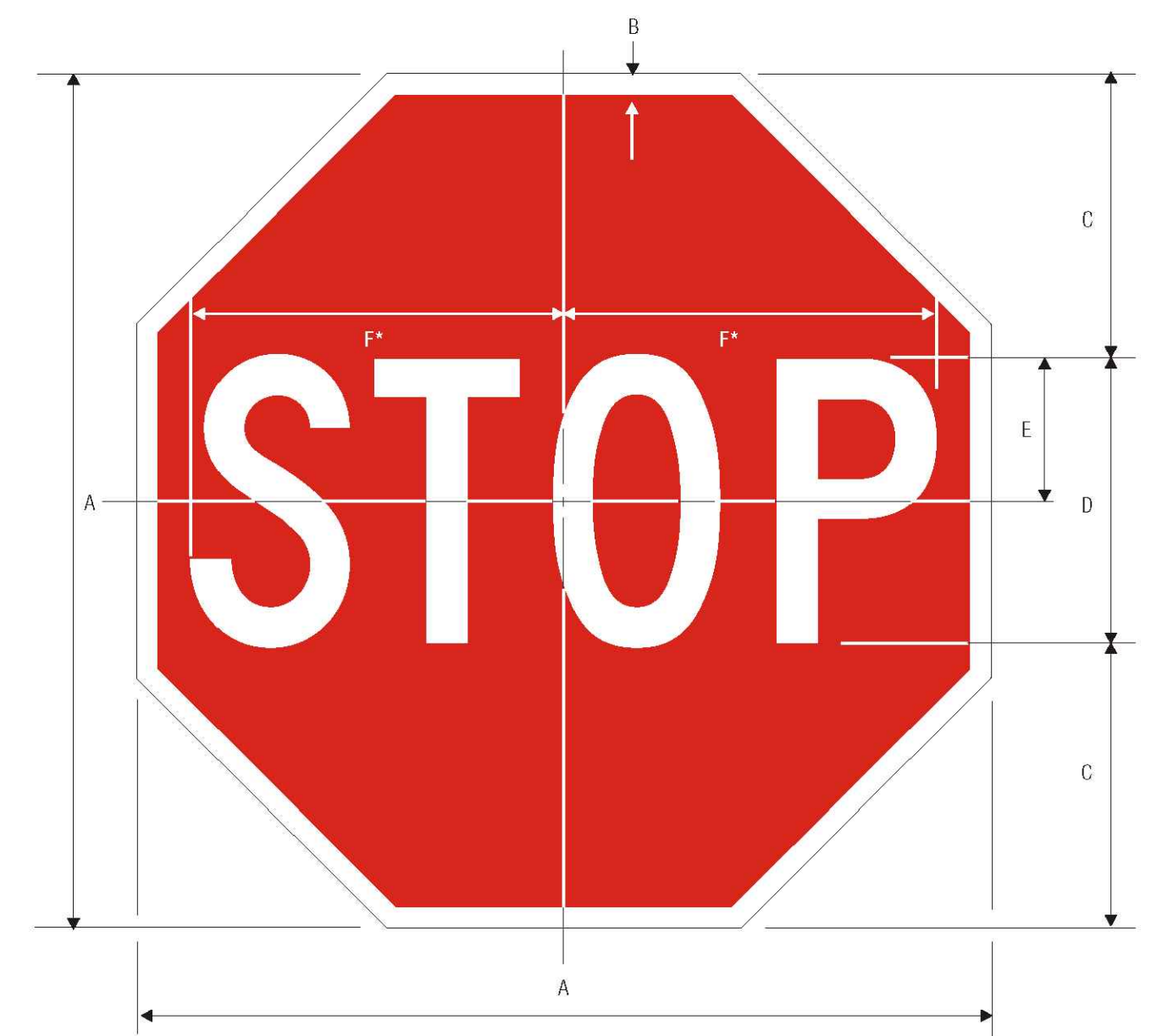
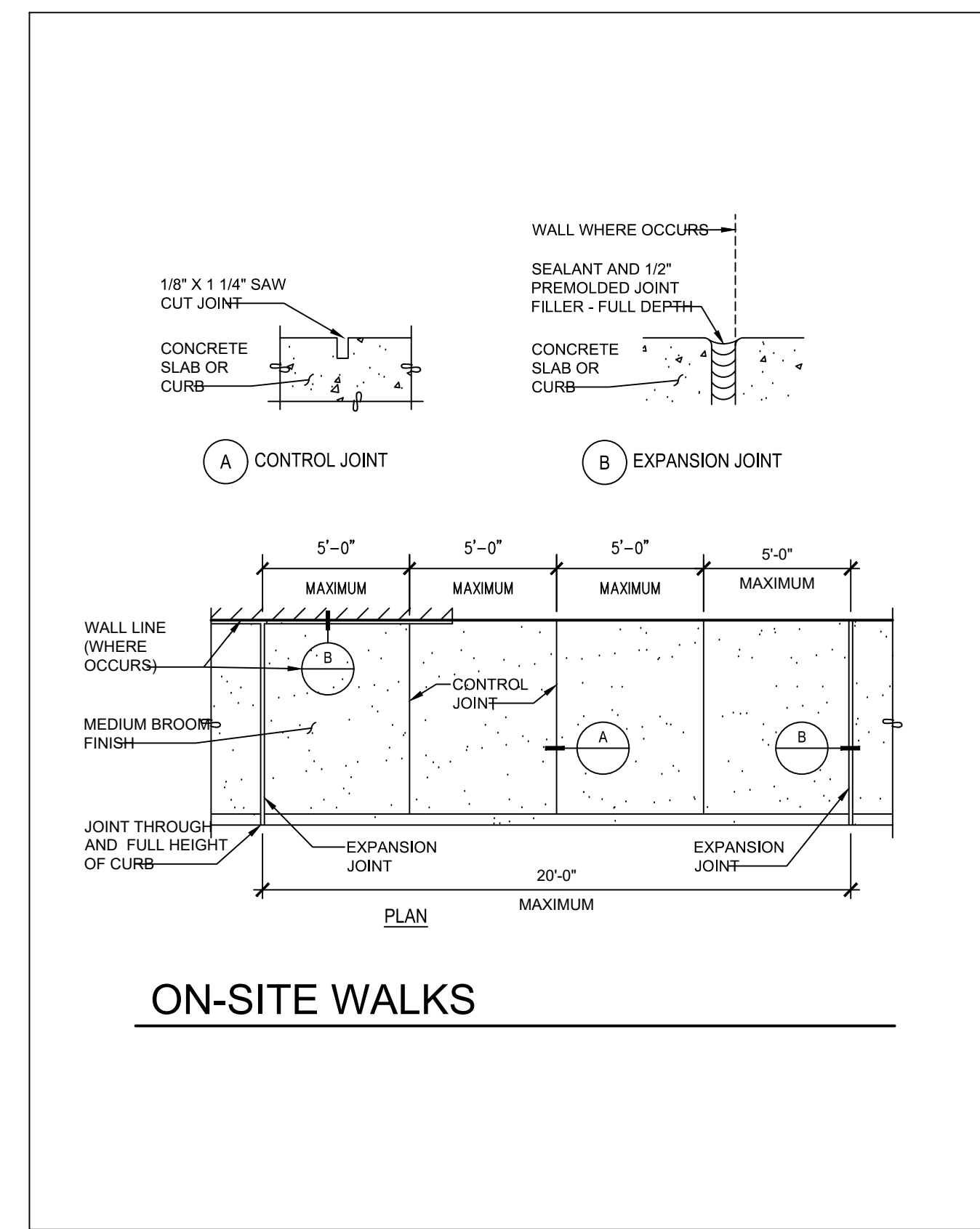
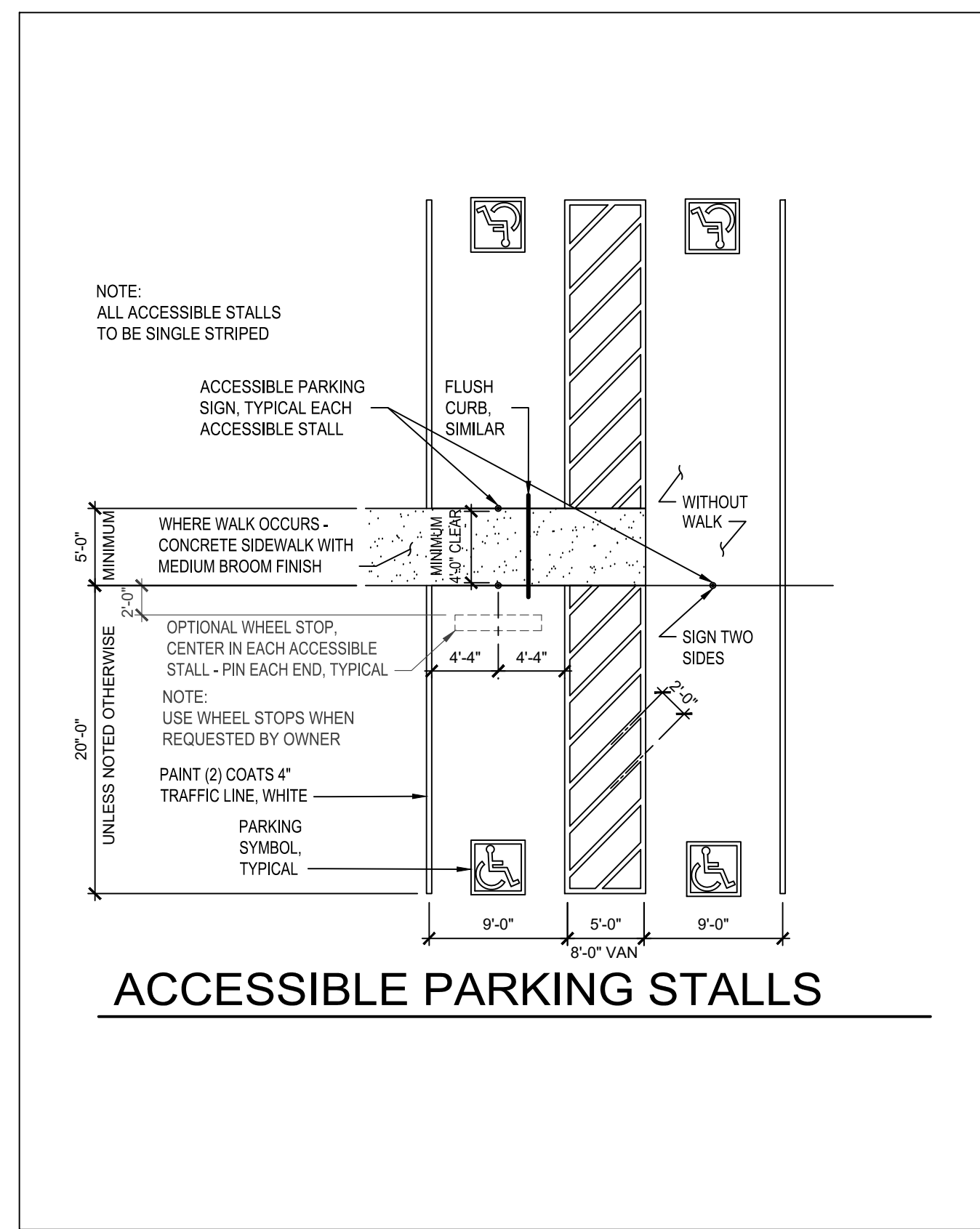
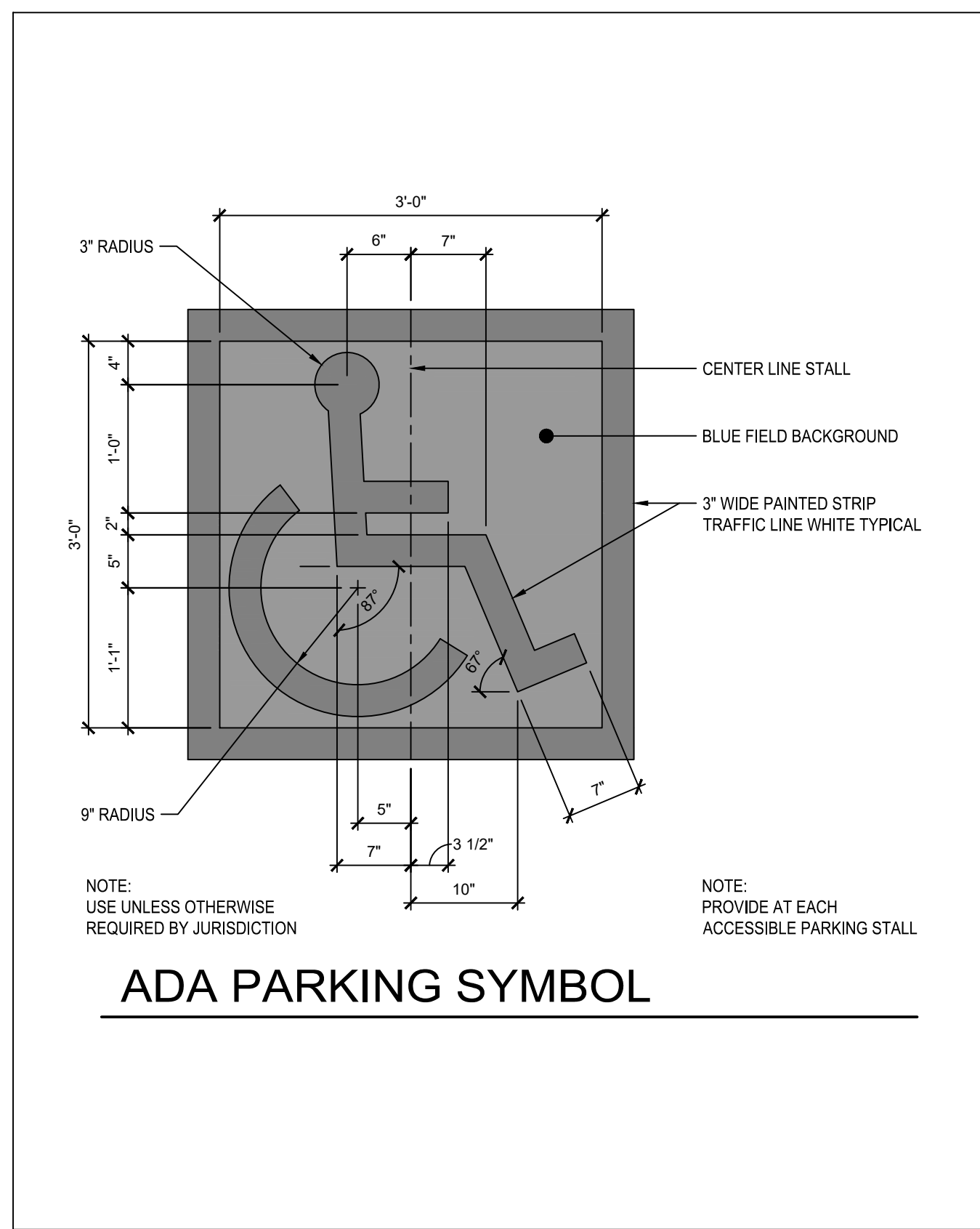


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AEC JOB # 18-4190-20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS
 EROSION CONTROL PLAN - PHASE 3
 CLAYTON COUNTY, GEORGIA

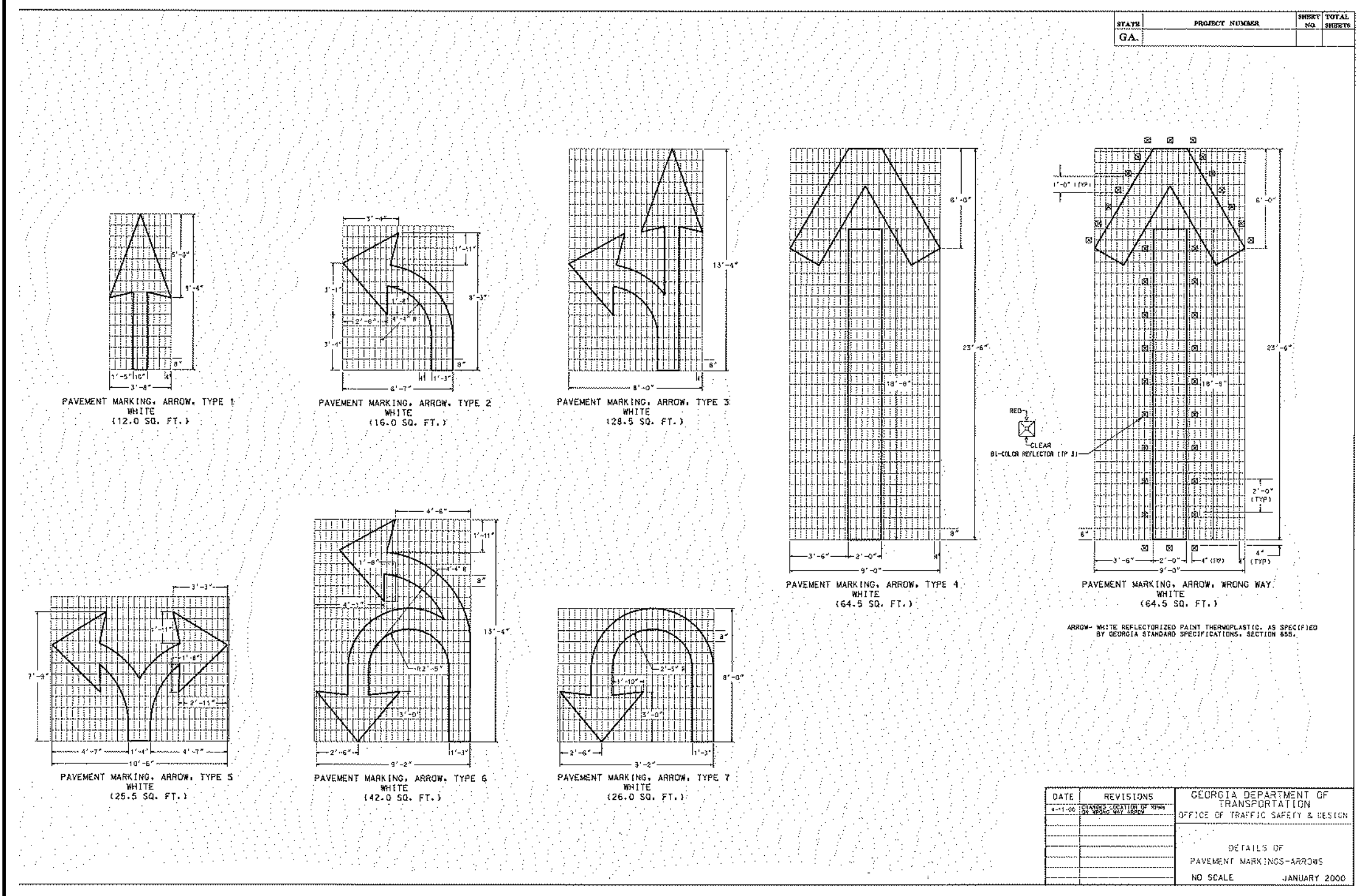
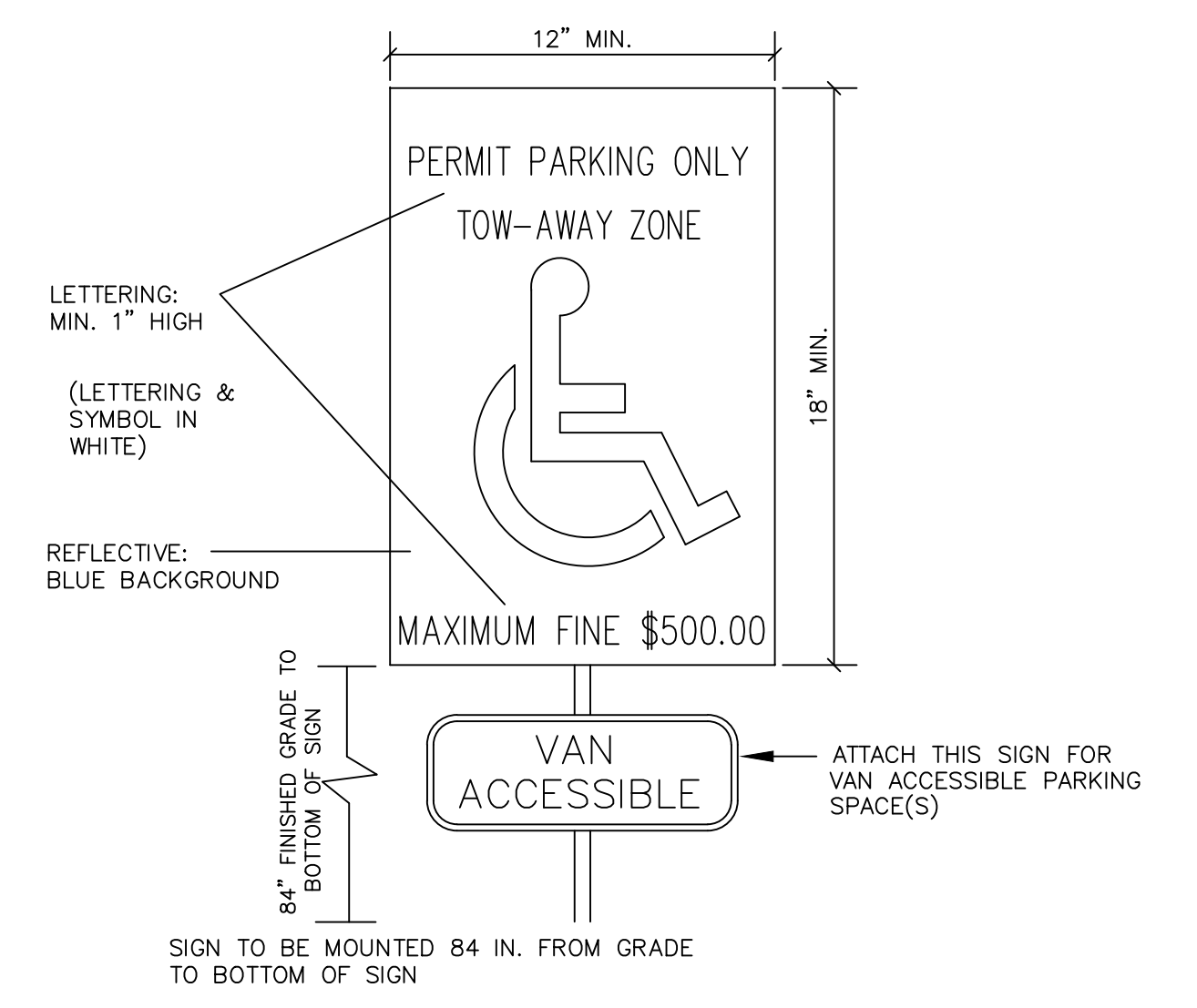
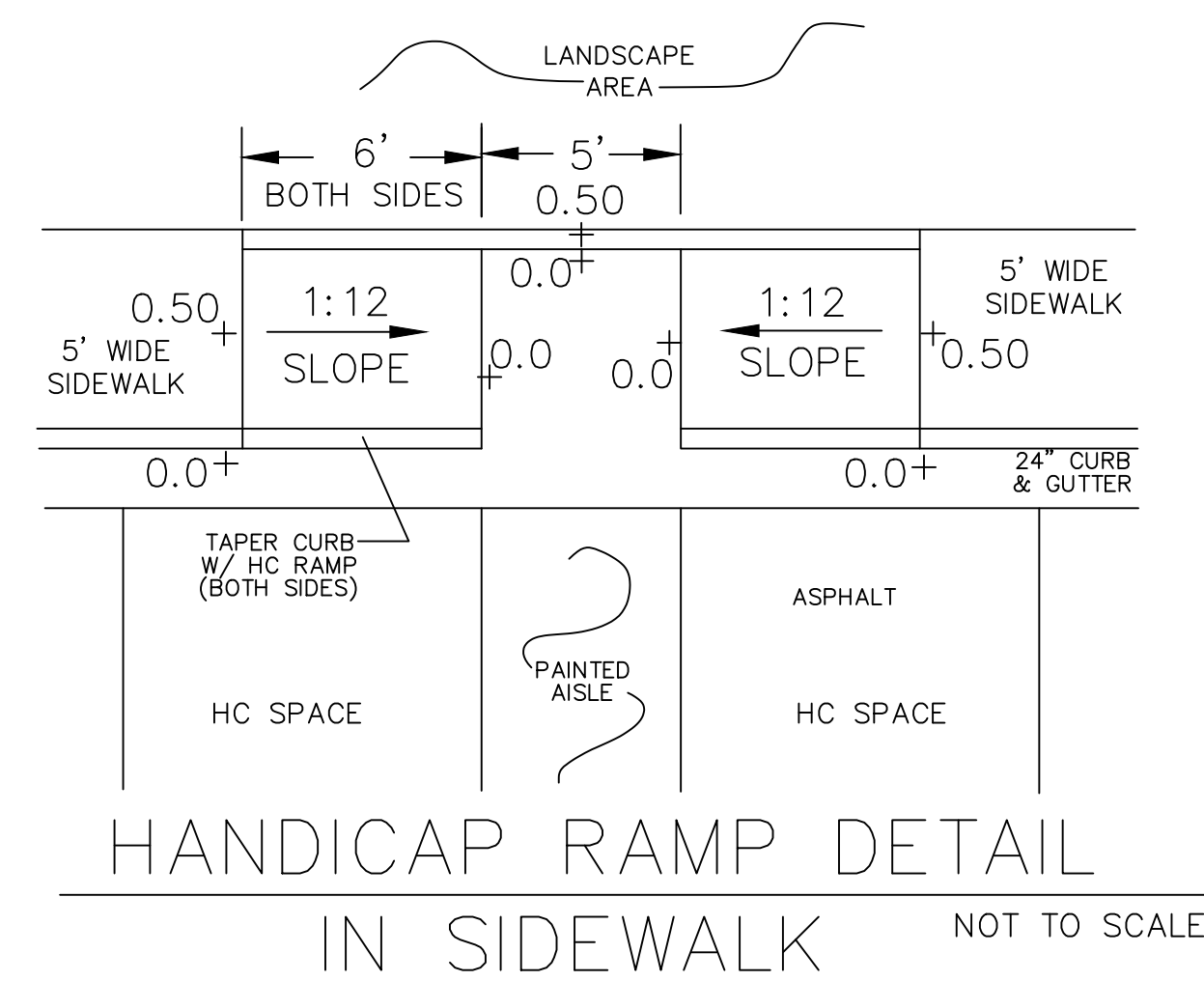
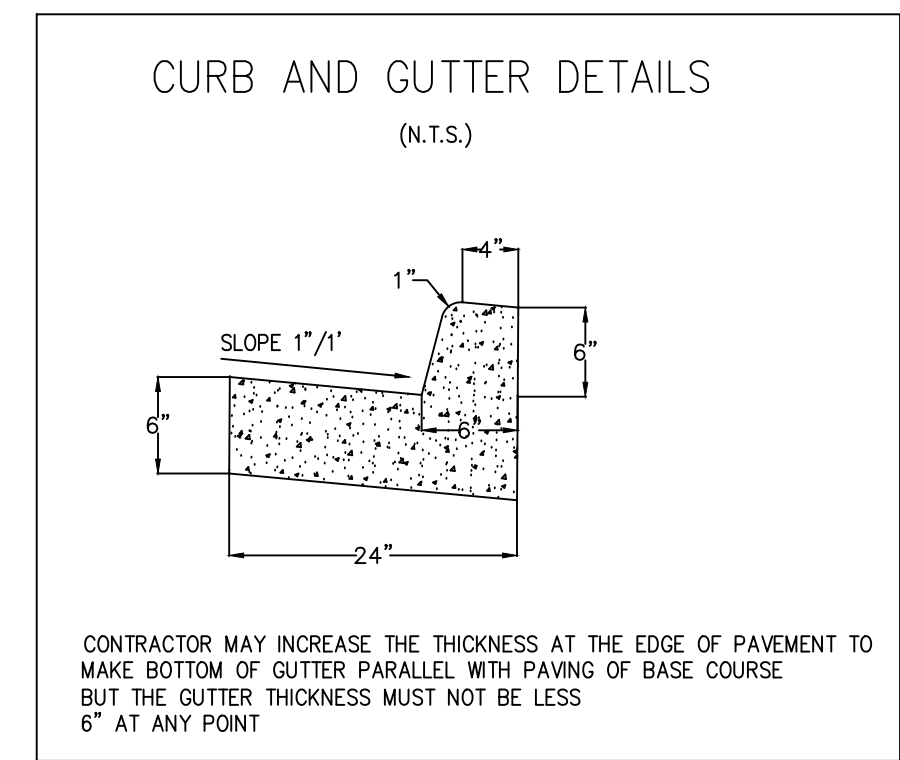
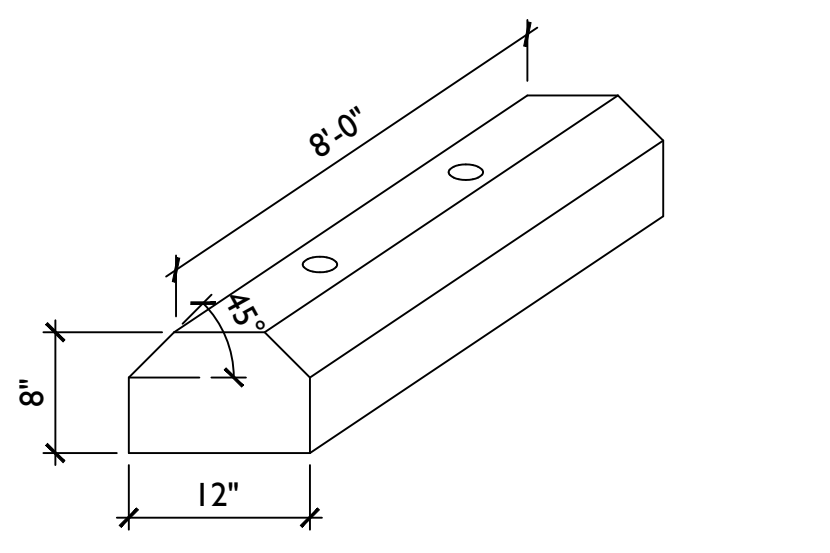
DR.	MDA	TR.	CHK
			CJW/MDV
SCALE		DATE	
1" = 50'		5/17/2019	
DRAWING No.		SHEET No.	
		19 OF 30	



A	B	C	D	E	F
18	.375	6	6 C	3	7.75
24	.625	8	8 C	4	10
30	.75	10	10 C	5	12.5
36	.875	12	12 C	6	15
48	1.25	16	16 C	8	20

COLORS: LEGEND — WHITE (RETROREFLECTIVE)
BACKGROUND — RED (RETROREFLECTIVE)

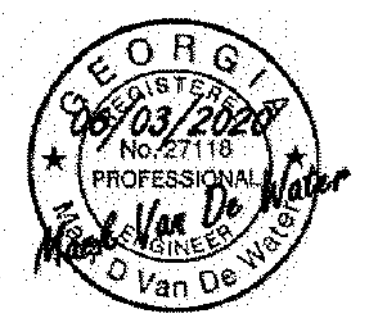
1-1



GEORGIA POWER COMPANY
241 RALPH MACLELLAN BOULEVARD NE
BIN 10221
ATLANTA, GA 30308
CONTACT: BURNS WETHERINGTON
(404) 506-2533

OPERATOR / 24 HOUR CONTACT
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BIN 10041
ATLANTA, GA 30308-3374
CONTACT: BRYAN HARRIS
(404) 506-4932

ENGINEER
AEC, INC.
50 WARM SPRING CIRCLE
ROSWELL, GA 30075
CONTACT: MARK VAN DE WATER
(770) 641-1942
LEVEL II CERT. # 6960



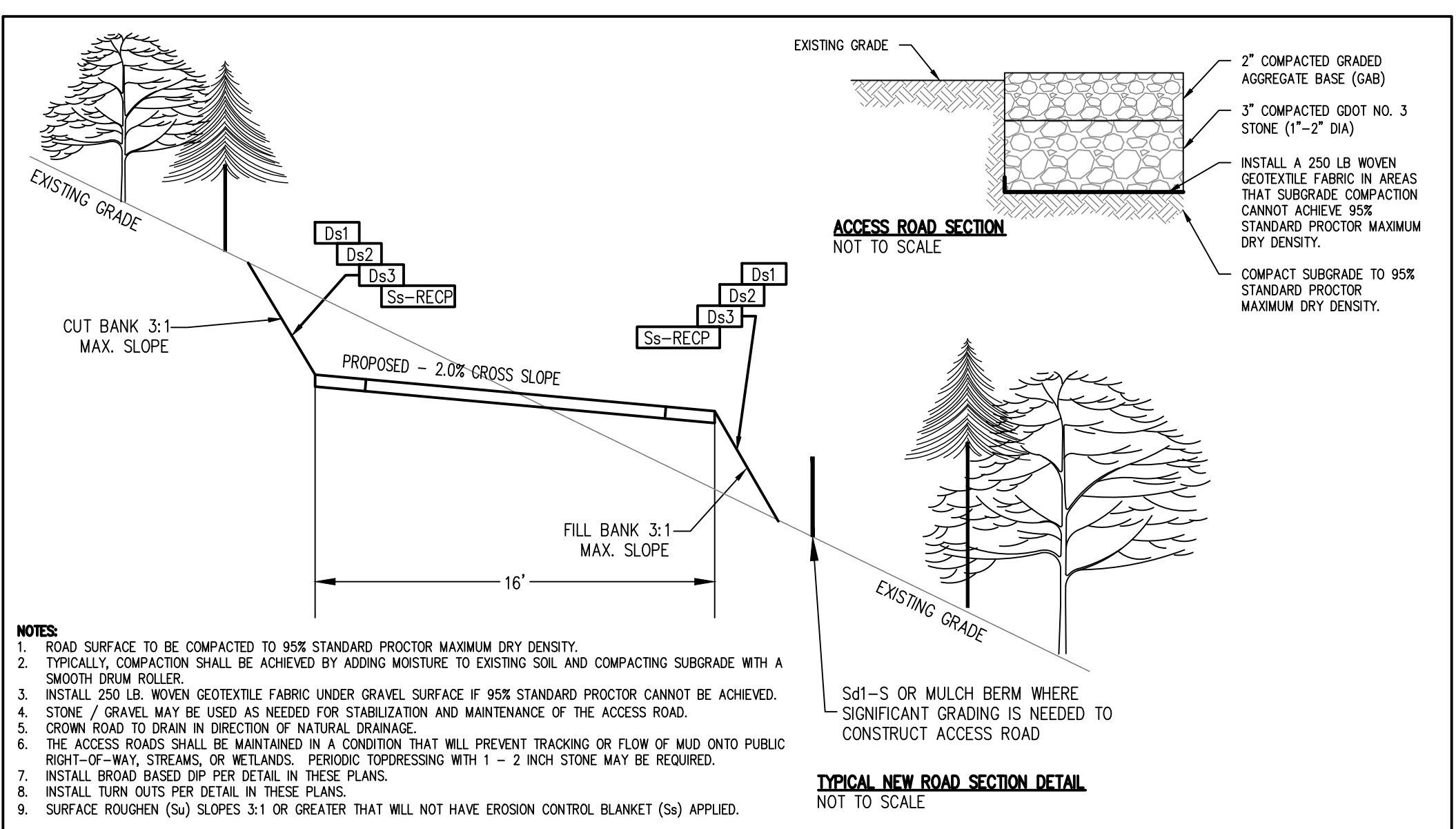
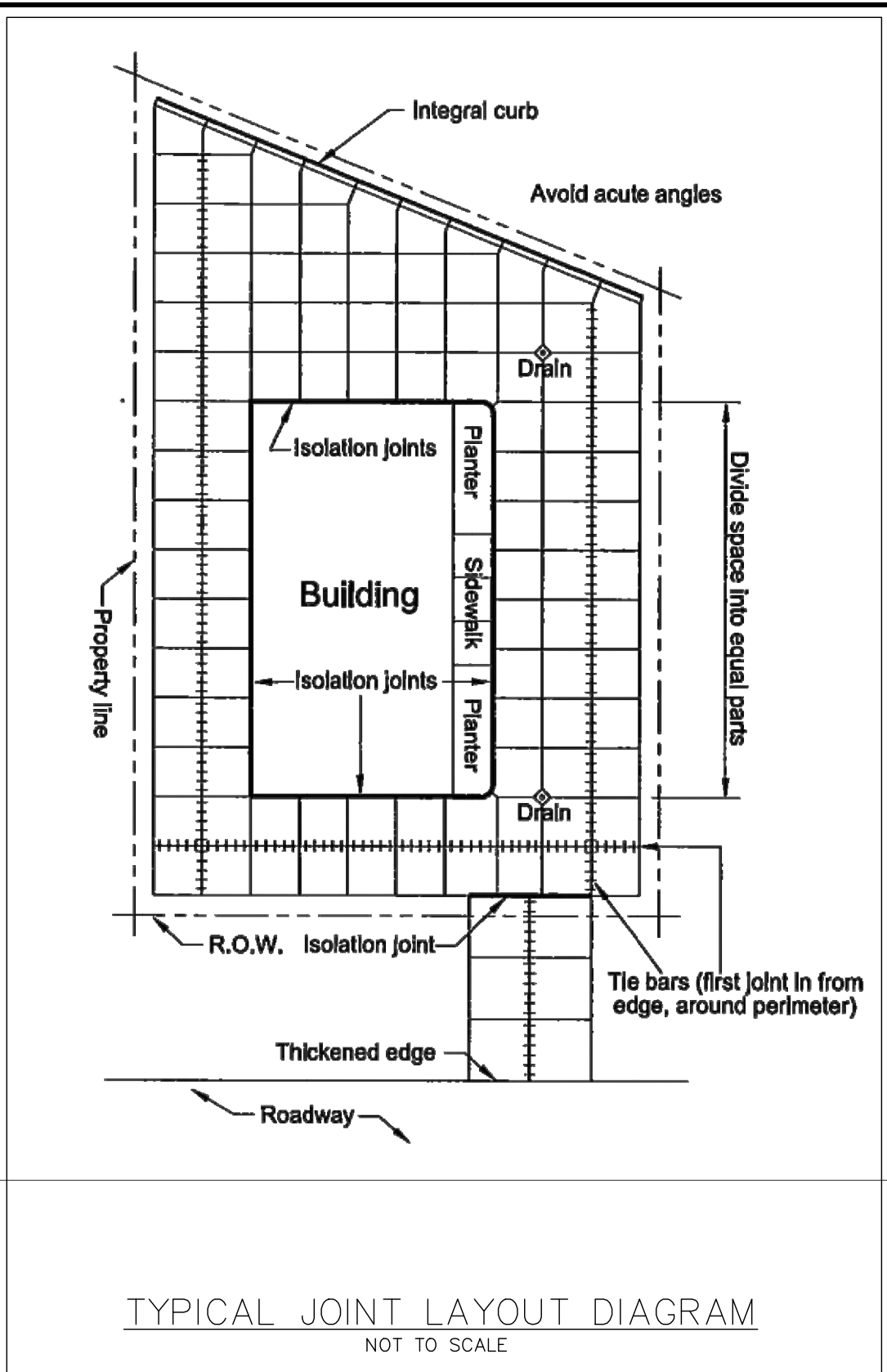
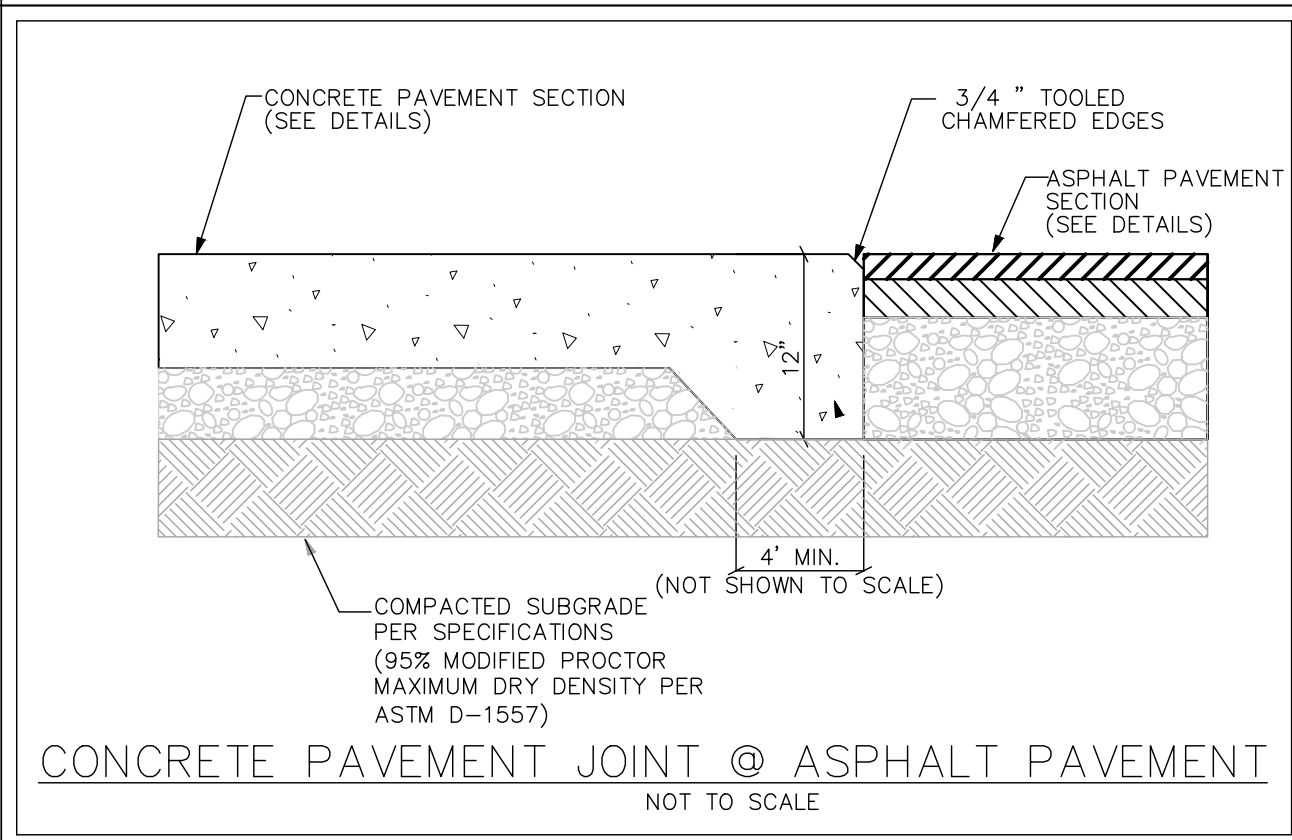
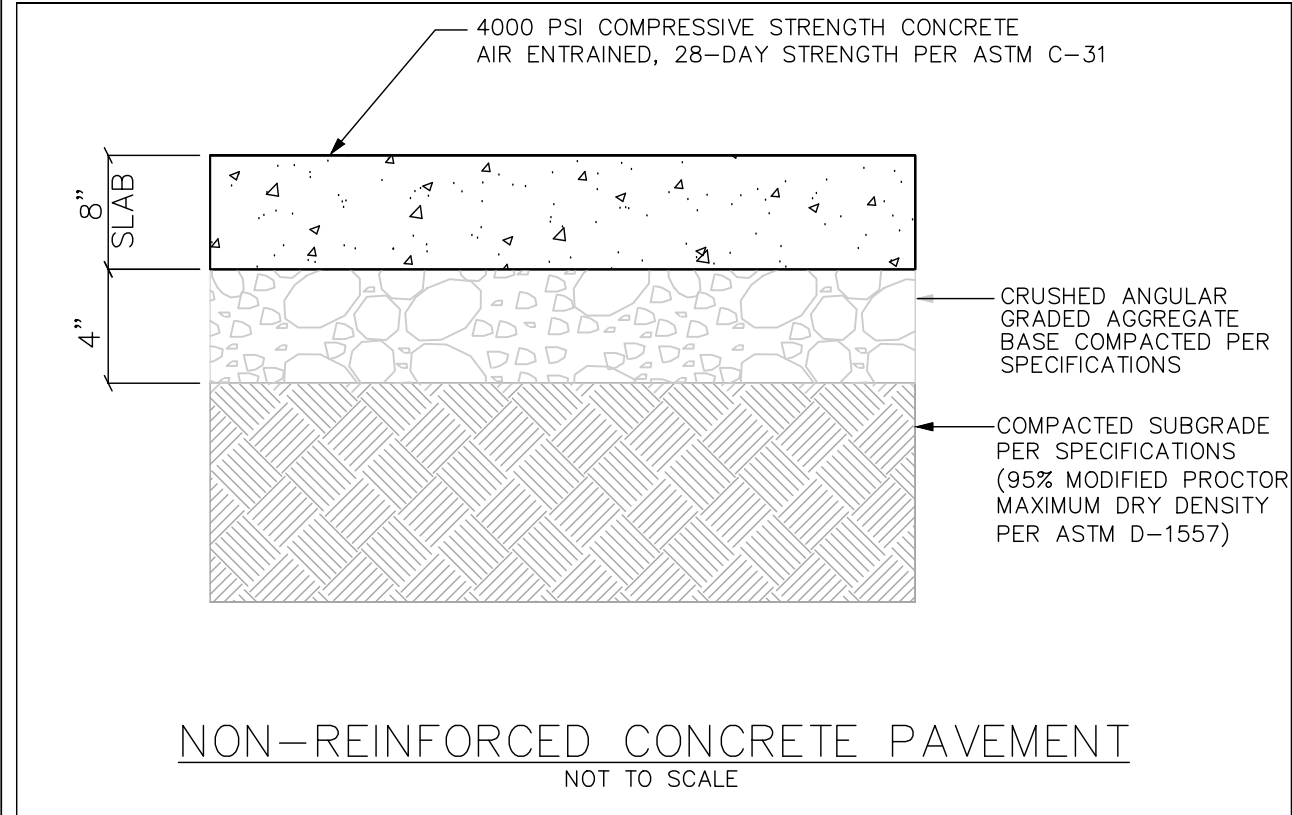
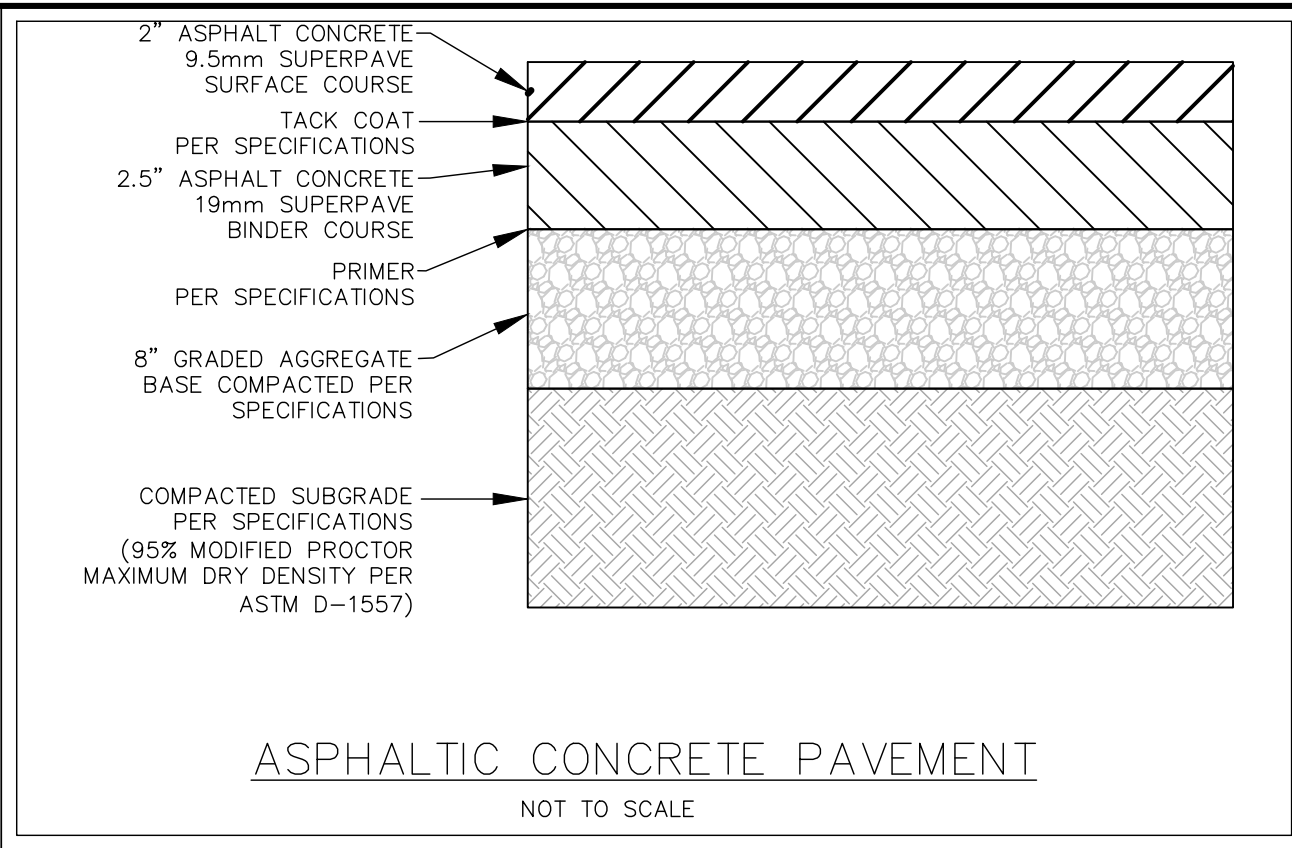
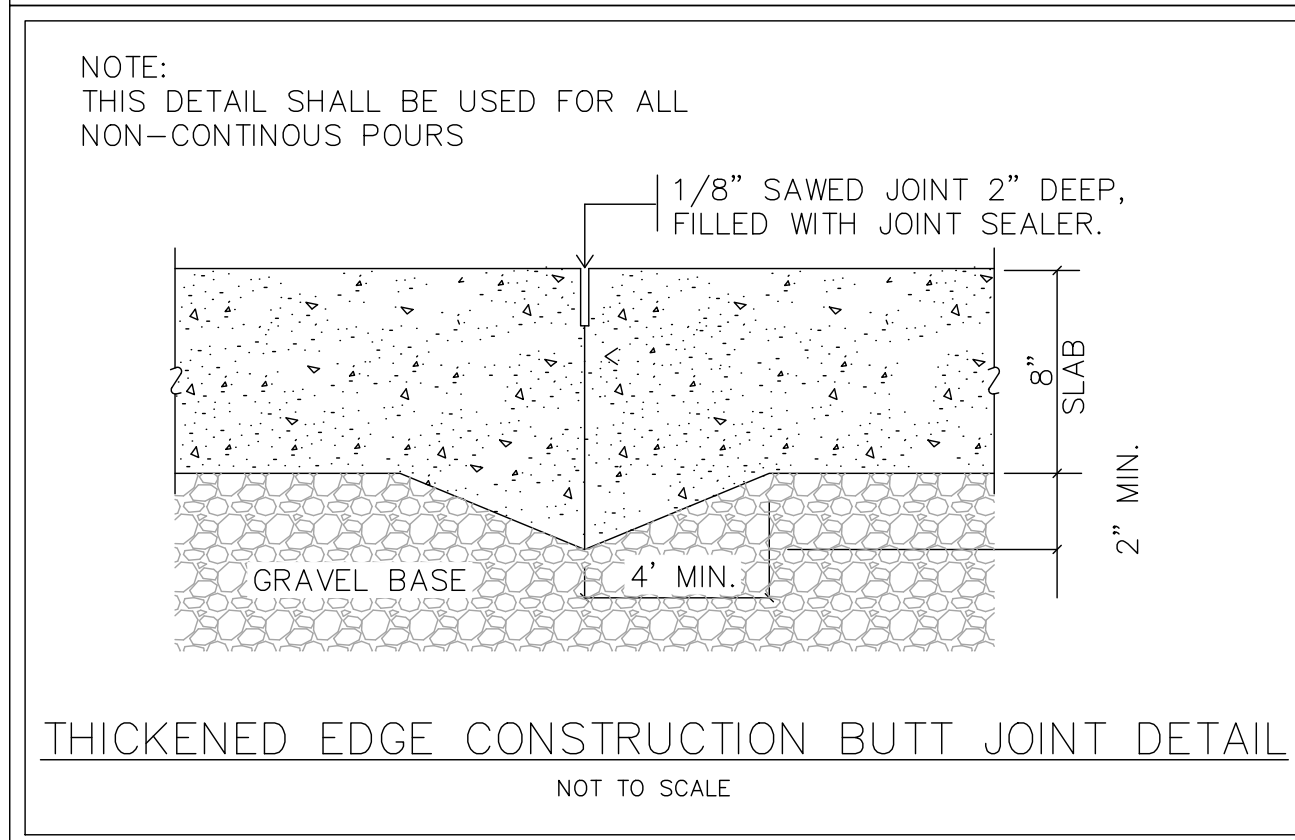
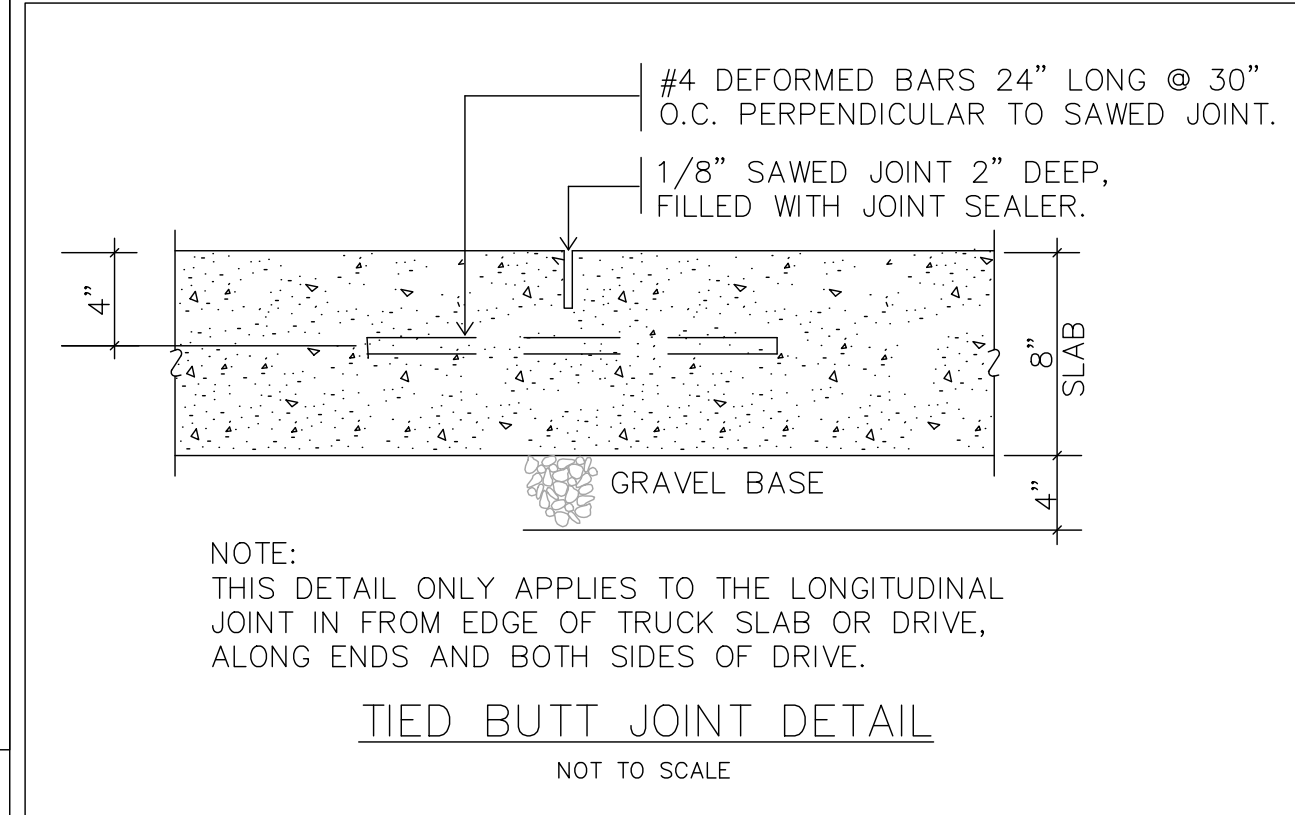
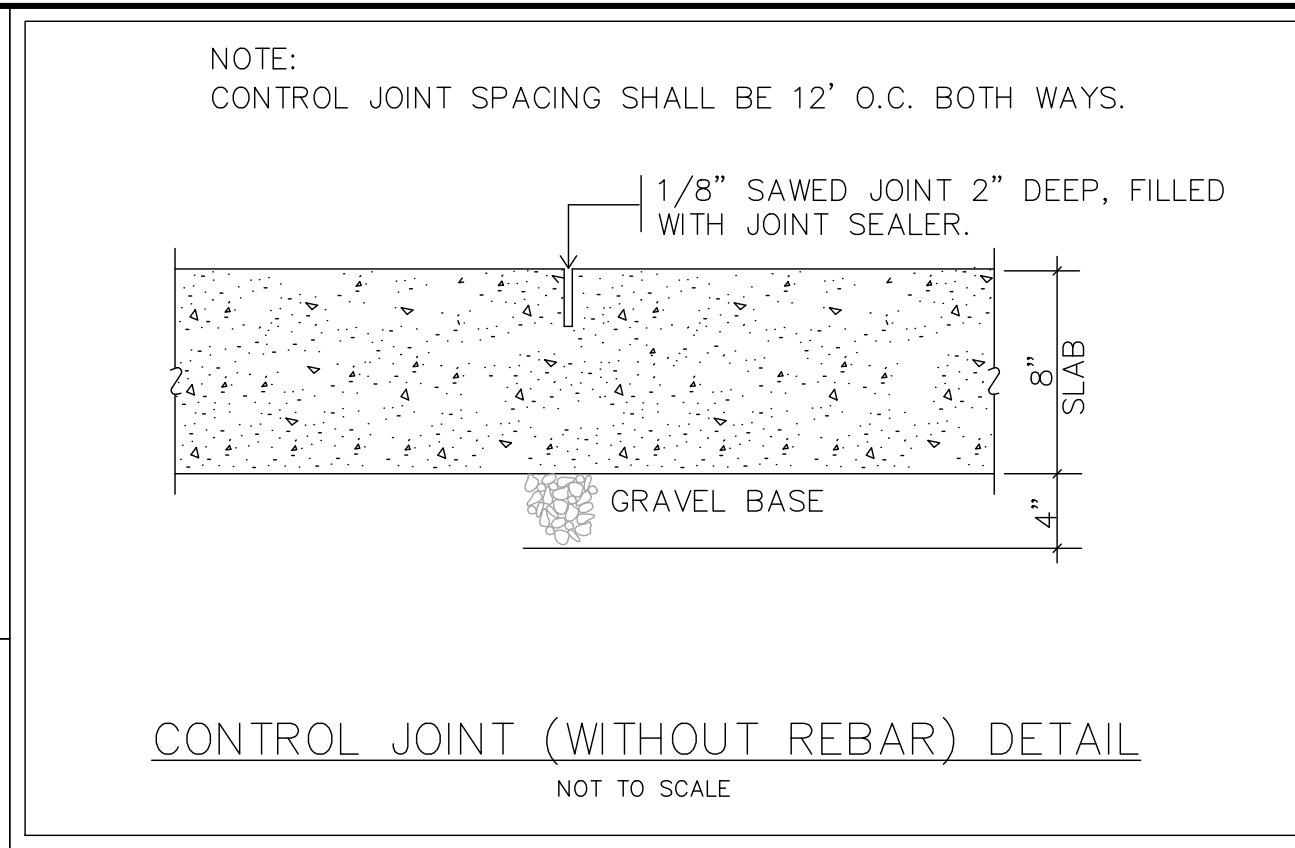
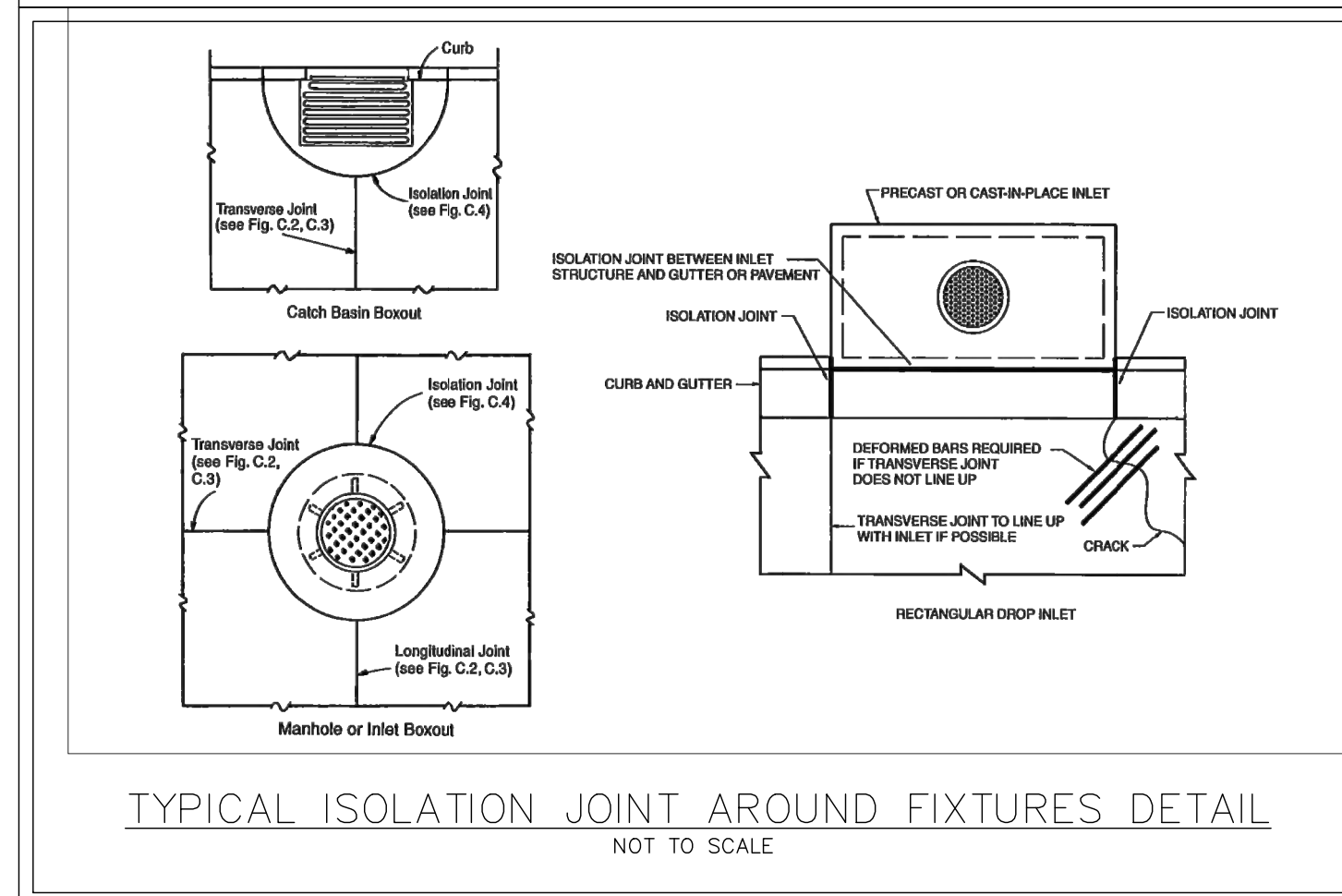
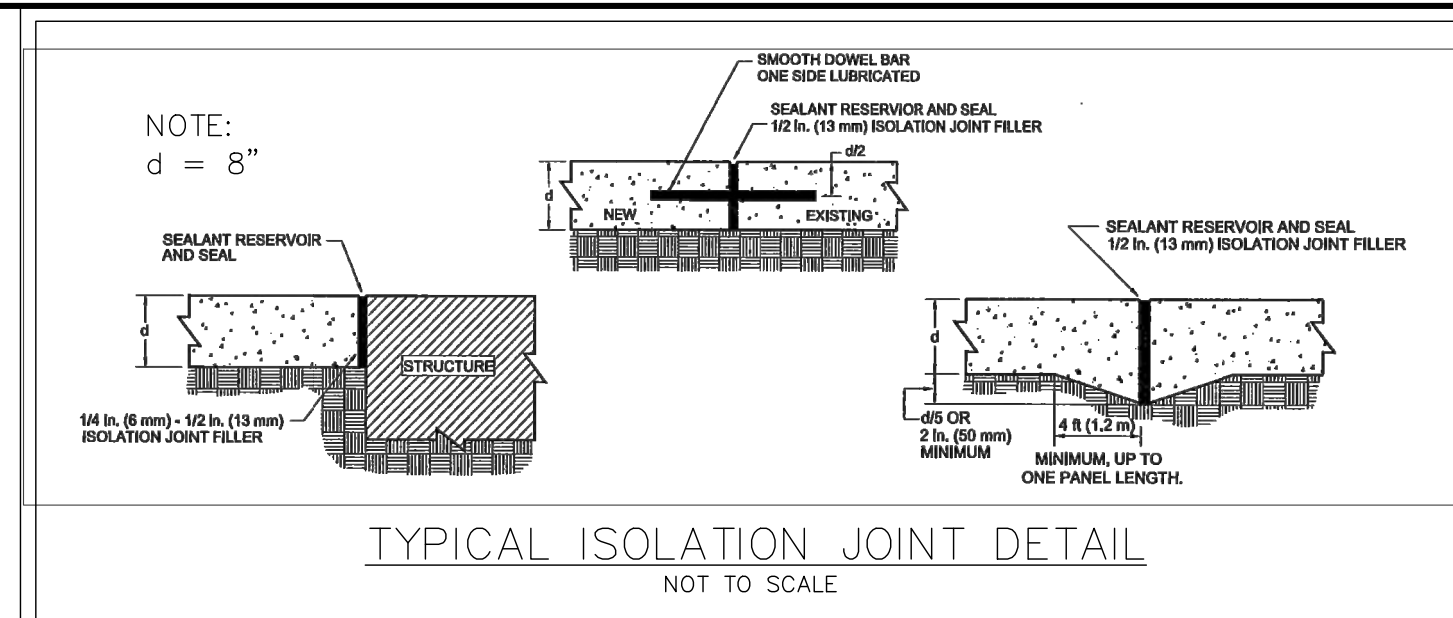
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AEC JOB # 18-4190.20

4.08/3/20	CMW	ADDED DUMPSTER PAD AREA	DR.	MDA	TR.	CHK	CJW/MDV
3.04/7/14/20	CMW	MASTER SITE IMPROVEMENT SET	SCALE			DATE	5/17/2019
2.01/3/1/20	CMW	REV. SEWER TIE IN LOCATION	DRAWING No.			SHEET No.	
1.08/1/13/19	MDV	REV. SEWER TIE IN LOCATION					
NO. DATE	BY	REVISIONS					

GEORGIA POWER CO., ATLANTA, GA. LAND DEPARTMENT
GPC NOAHS ARK OPERATING HEADQUARTERS
CONSTRUCTION DETAILS
CLAYTON COUNTY, GEORGIA

20 OF 30

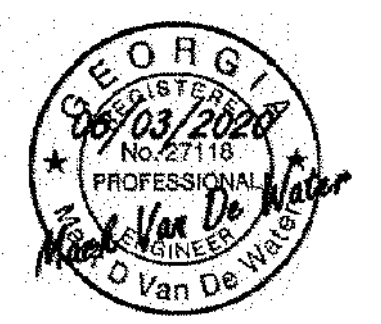


- GENERAL NOTES:**
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL NOTES, DETAILS, AND REQUIREMENTS.
 - REFER TO GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS PROJECT.
 - CONCRETE PAVEMENT DESIGN PER ACI STD. 330R-08; CBR=3, MOR=600 PSI, TRAFFIC CATEGORY D, ADTT = 700, 20-YEAR DESIGN LIFE SPAN.
 - CONCRETE CONTRACTION (CONTROL) JOINT SPACING SHALL BE 12' O.C. EACH WAY (TYP.).
 - FOR CONCRETE PAVEMENT, INSTALL TIE BARS ON THE FIRST LONGITUDINAL JOINT FROM THE PAVEMENT EDGE TO KEEP THE OUTSIDE SLAB FROM SEPARATING FROM THE PAVEMENT. TIE BARS ARE NOT REQUIRED AT INTERIOR JOINTS OR OTHER AREAS CONFINED BY SURROUNDING SLABS.
 - FOR CONCRETE PAVEMENT, INSTALL CONSTRUCTION JOINTS FOR NON-CONTINUOUS POURS.
 - FOR CONCRETE PAVEMENT, INSTALL ISOLATION JOINTS AS REQUIRED PER TYPICAL DETAILS.
 - MOISTURE-DENSITY DETERMINATIONS SHOULD BE PERFORMED FOR EACH SOIL TYPE USED, TO PROVIDE DATA NECESSARY FOR QUALITY ASSURANCE TESTING. THE NATURAL MOISTURE CONTENT AT THE TIME OF COMPACTION SHOULD BE WITHIN MOISTURE CONTENT LIMITS, WHICH WILL ALLOW THE REQUIRED COMPACTION TO BE OBTAINED. THE CONTRACTOR SHOULD BE PREPARED TO INCREASE SOIL WATER CONTENT.
 - THE FILL SHOULD BE PLACED IN THIN LIFTS (NOT TO EXCEED 9 INCHES) AND THEN COMPACTED. THE FILL (BOTH STONE AND SOIL) SHOULD BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698-78). NON STRUCTURAL AREAS SHOULD BE COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY. GEOTECHNICAL EVALUATION SHOULD SUPERCEDE THESE MINIMUM RECOMMENDATIONS.

OWNER
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OPERATOR / 24 HOUR CONTACT
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(770) 641-1942
LEVEL II CERT. # 6960



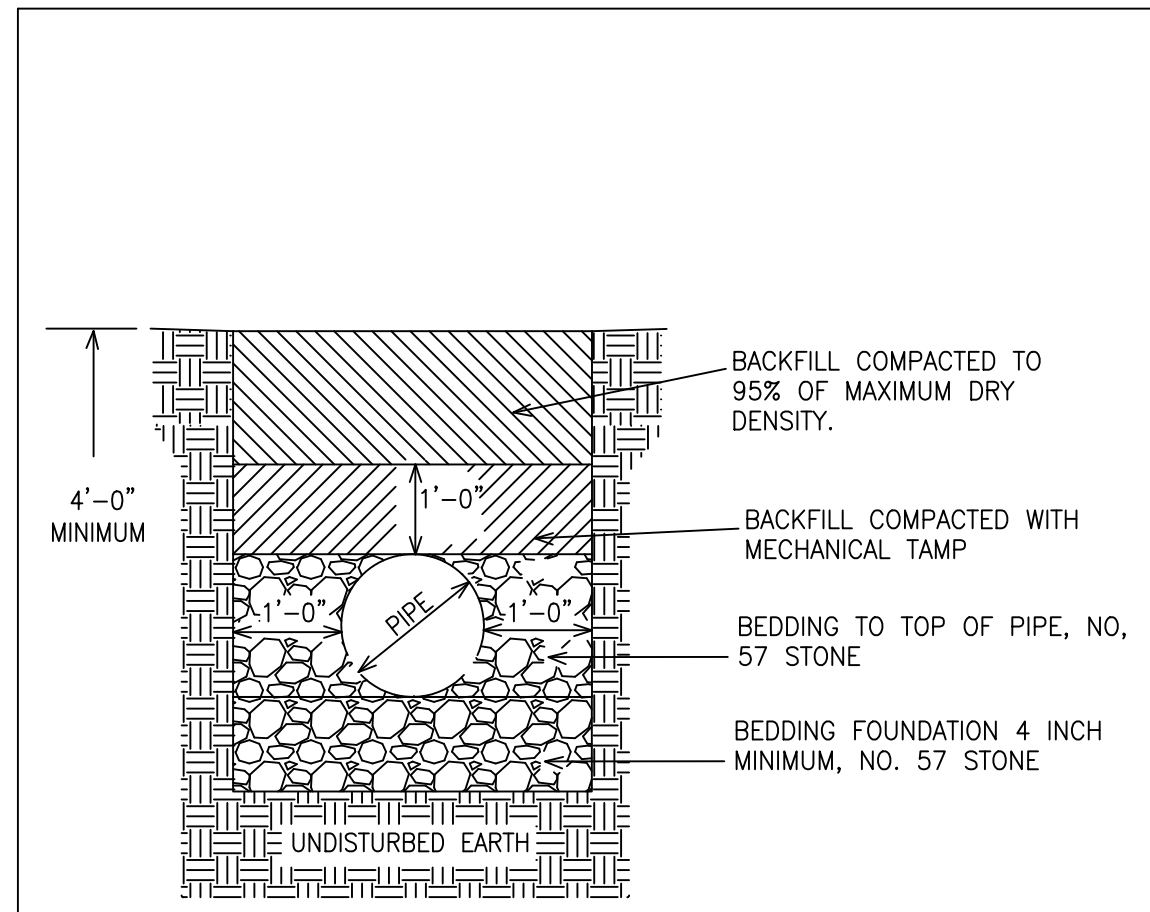
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AEC JOB # 18-4190-20

GEORGIA POWER CO., ATLANTA, GA. LAND DEPARTMENT GPC NOAH'S ARK OPERATING HEADQUARTERS CONSTRUCTION DETAILS CLAYTON COUNTY, GEORGIA	
DR. MDA TR. JR. CRK. CJW/MDV	DATE: 5/17/2019 SHEET No.: 21 OF 30

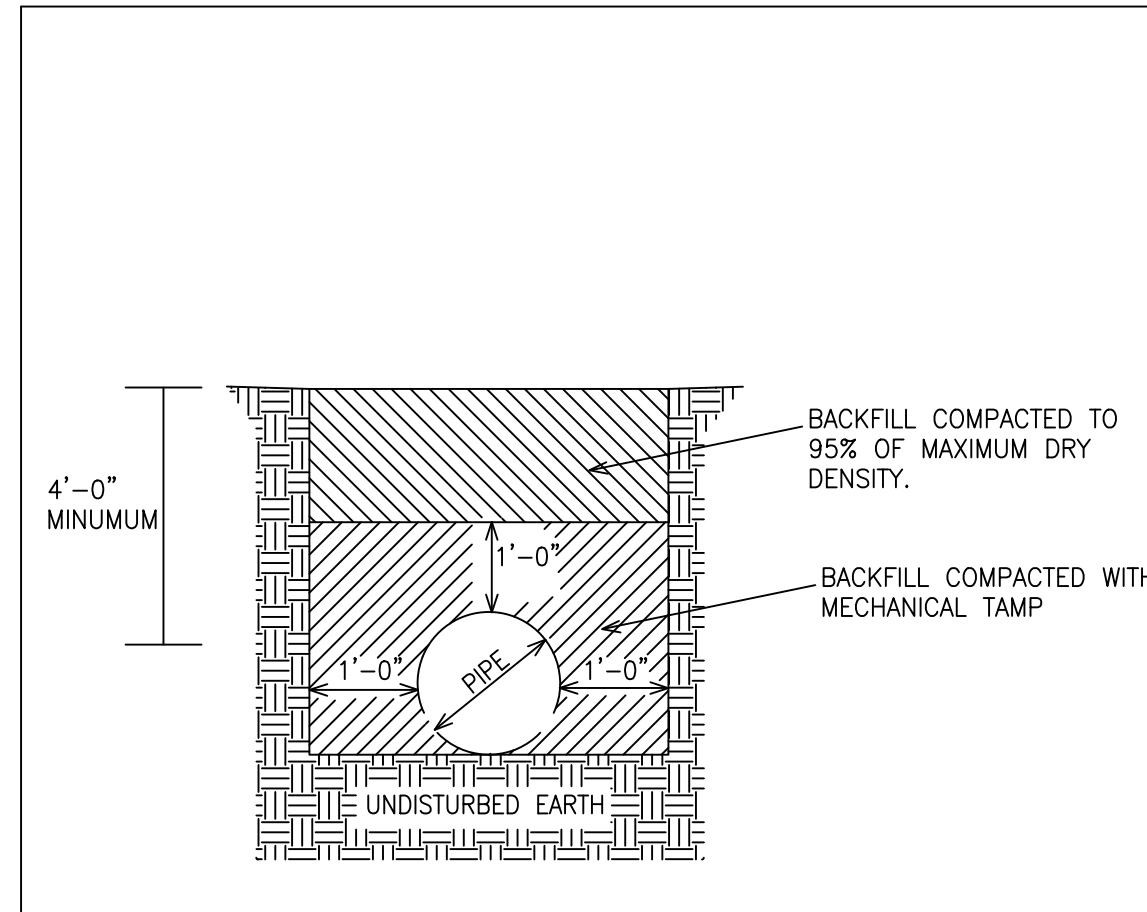
APPROVALS:

NO.	DATE	BY



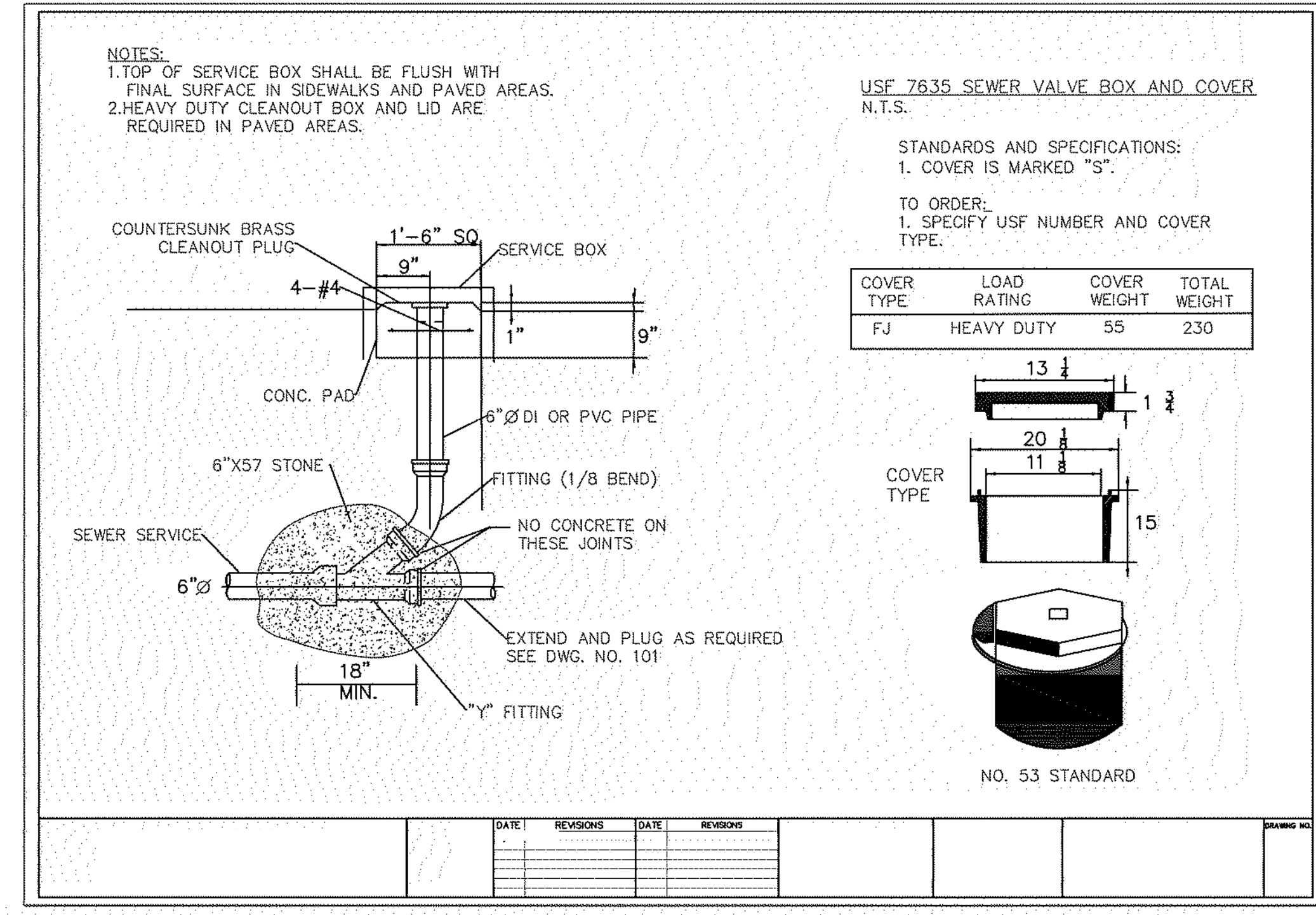
NOTES: UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE.
ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

CLAYTON COUNTY WATER AUTHORITY		
DATE:	12 FEBRUARY 2002	DETAIL TITLE:
SCALE:	N.T.S.	TYPICAL P.V.C. SEWER PIPE BEDDING
DRAWN BY:	SRD	DETAIL No. 18.1



NOTES: UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE.
ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

CLAYTON COUNTY WATER AUTHORITY		
DATE:	12 FEBRUARY 2002	DETAIL TITLE:
SCALE:	N.T.S.	TYPICAL DUCTILE IRON PIPE BEDDING
DRAWN BY:	SRD	DETAIL No. 8.1

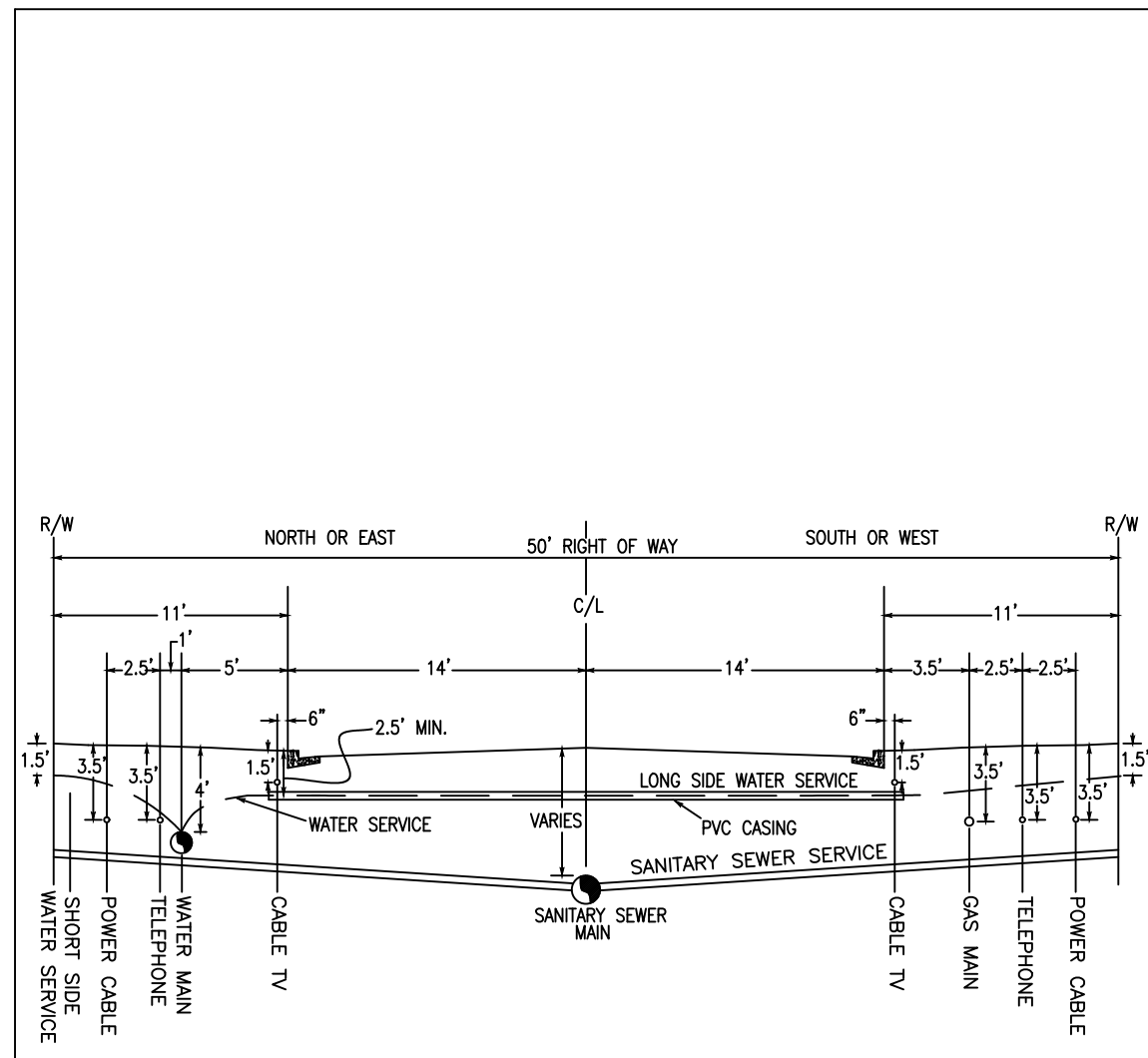
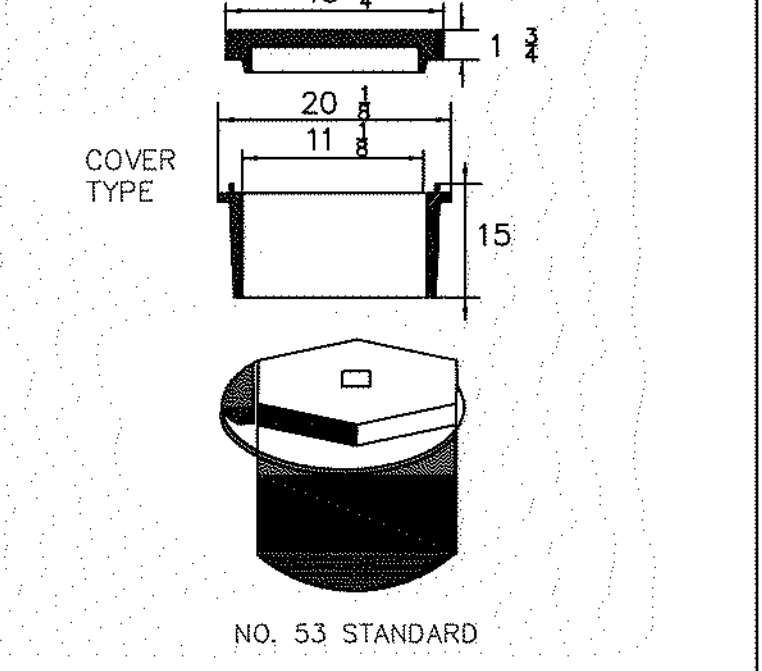


USF 7635 SEWER VALVE BOX AND COVER
N.T.S.

STANDARDS AND SPECIFICATIONS:
1. COVER IS MARKED "S".

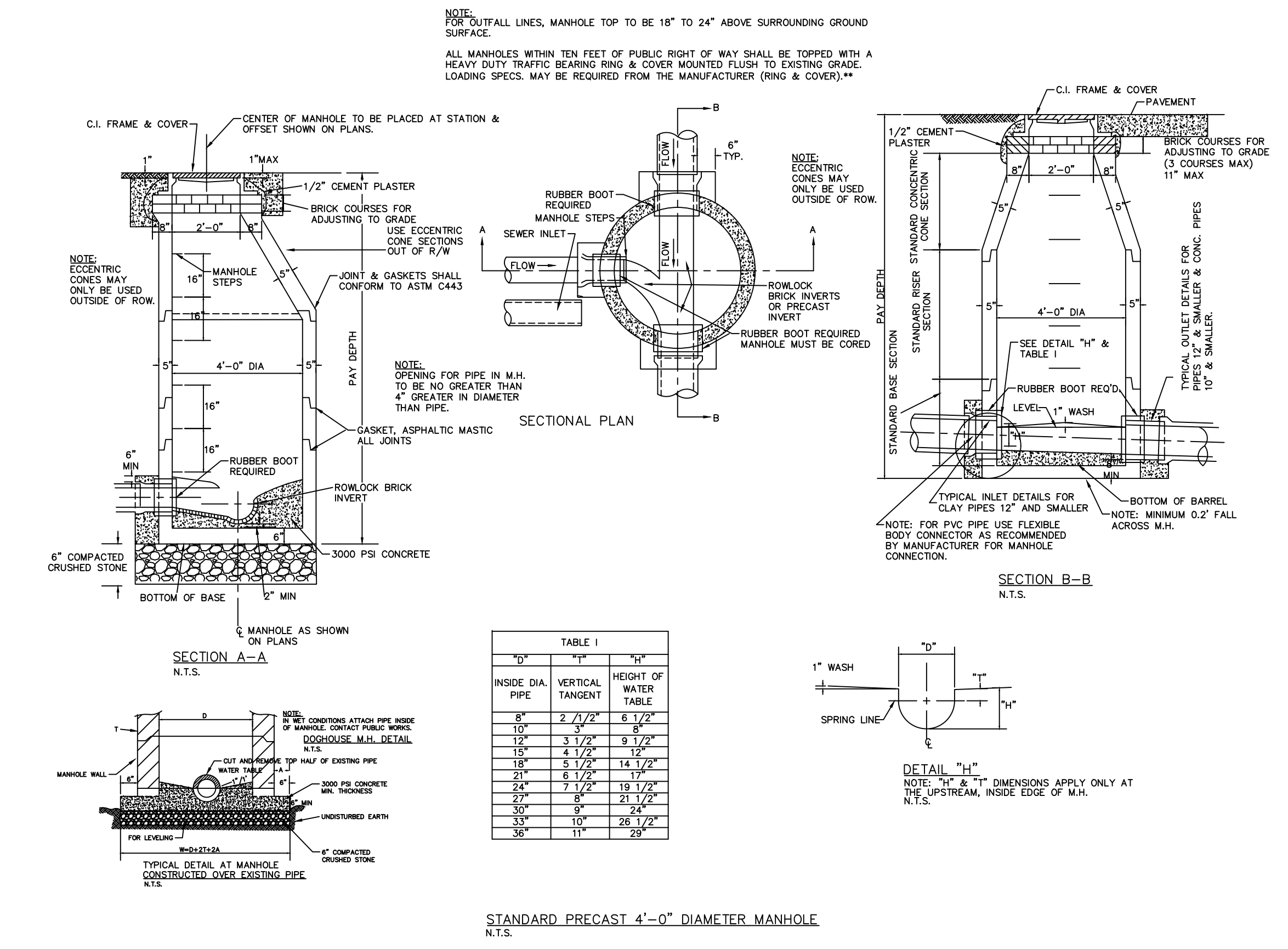
TO ORDER:
1. SPECIFY USF NUMBER AND COVER TYPE.

COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FJ	HEAVY DUTY	55	230



NOTE:
1. ON ALL UNCURBED STREETS, UTILITY LOCATIONS SHALL BE AT THE SAME DISTANCES FROM C/L AS SHOWN ABOVE.

CLAYTON COUNTY WATER AUTHORITY		
DATE:	12 FEBRUARY 2002	DETAIL TITLE:
SCALE:	N.T.S.	UNDERGROUND UTILITIES LOCATIONS
DRAWN BY:	SRD	DETAIL No. 1.1



STANDARD PRECAST 4'-0" DIAMETER MANHOLE
N.T.S.

OWNER
GEORGIA POWER COMPANY
241 RALPH MCGILL BOULEVARD NE
BN 10221
ATLANTA, GA 30308
CONTACT: BURNS WEATHERINGTON
(404) 506-2533

OPERATOR / 24 HOUR CONTACT
241 RALPH MCGILL BOULEVARD NE
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CONTACT: BRYAN HARRIS
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ENGINEER
AEC, INC.
50 WARM SPRING CIRCLE
ROSWELL, GA 30075
CONTACT: MARK VAN DE WATER
(770) 641-1942
LEVEL II CERT. # 6960



AEC JOB # 18-4190.20

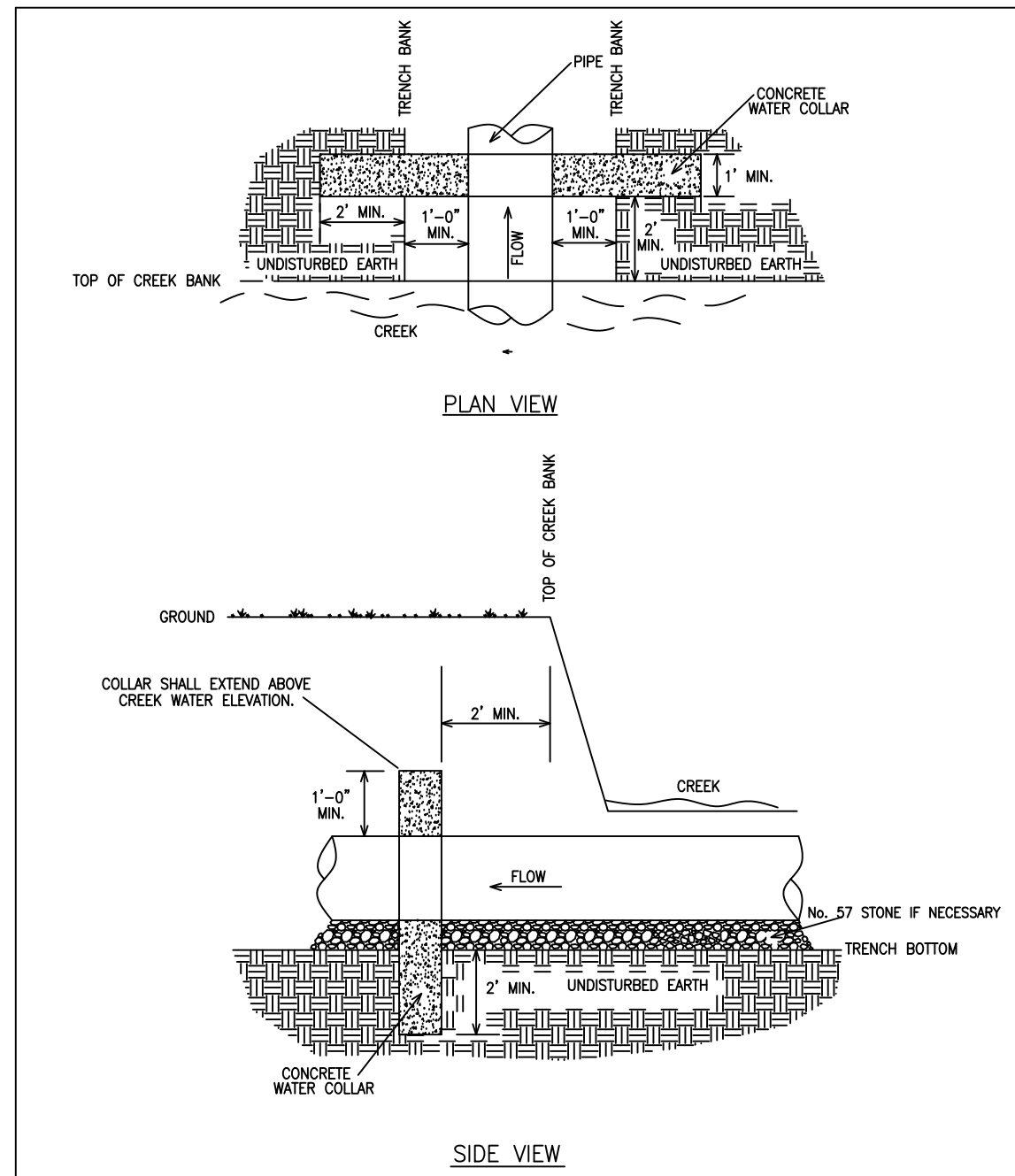
4.08/3/20	CMW	ADDED DUMPSTER PAD AREA
3.04/7/14/20	CMW	MASTER SITE IMPROVEMENT SET
2.01/3/1/20	CMW	REV. SEWER TIE IN LOCATION
1.08/7/13/19	MDV	REV. SEWER TIE IN LOCATION

NO. DATE BY

APPROVALS

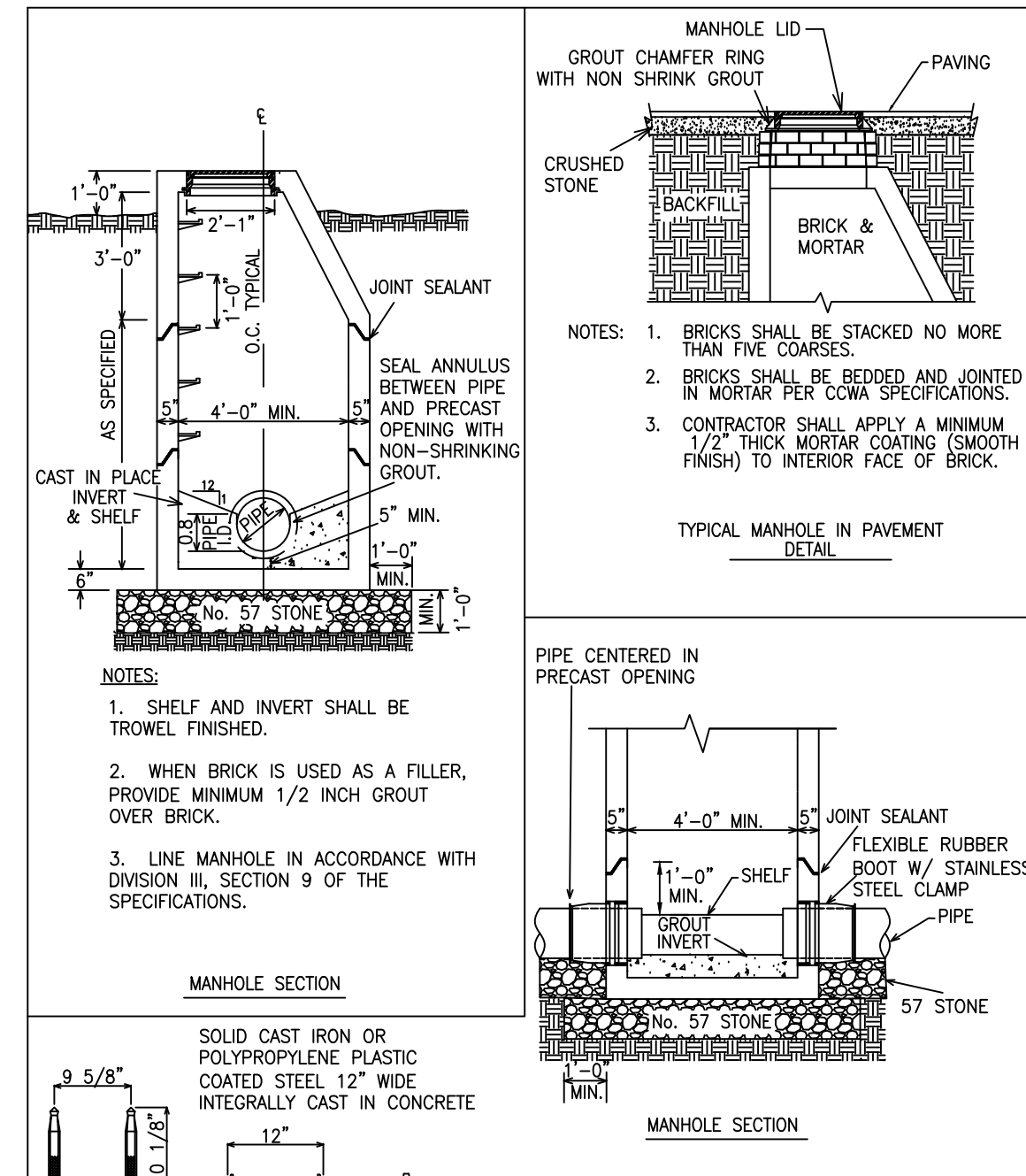
DR.	MDA	TR.	CRK
			CJW/MDV
SCALE		DATE	
		5/17/2019	
DRAWING No.		SHEET No.	
		22 OF 30	

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
GPC NOAHS ARK OPERATING HEADQUARTERS
UTILITY DETAILS
CLAYTON COUNTY, GEORGIA



CLAYTON COUNTY WATER AUTHORITY

DATE:	12 FEBRUARY 2002	DETAIL TITLE:	PIPE COLLAR	DETAIL NO.	20.1
SCALE:	N.T.S.				
DRAWN BY:	WB				



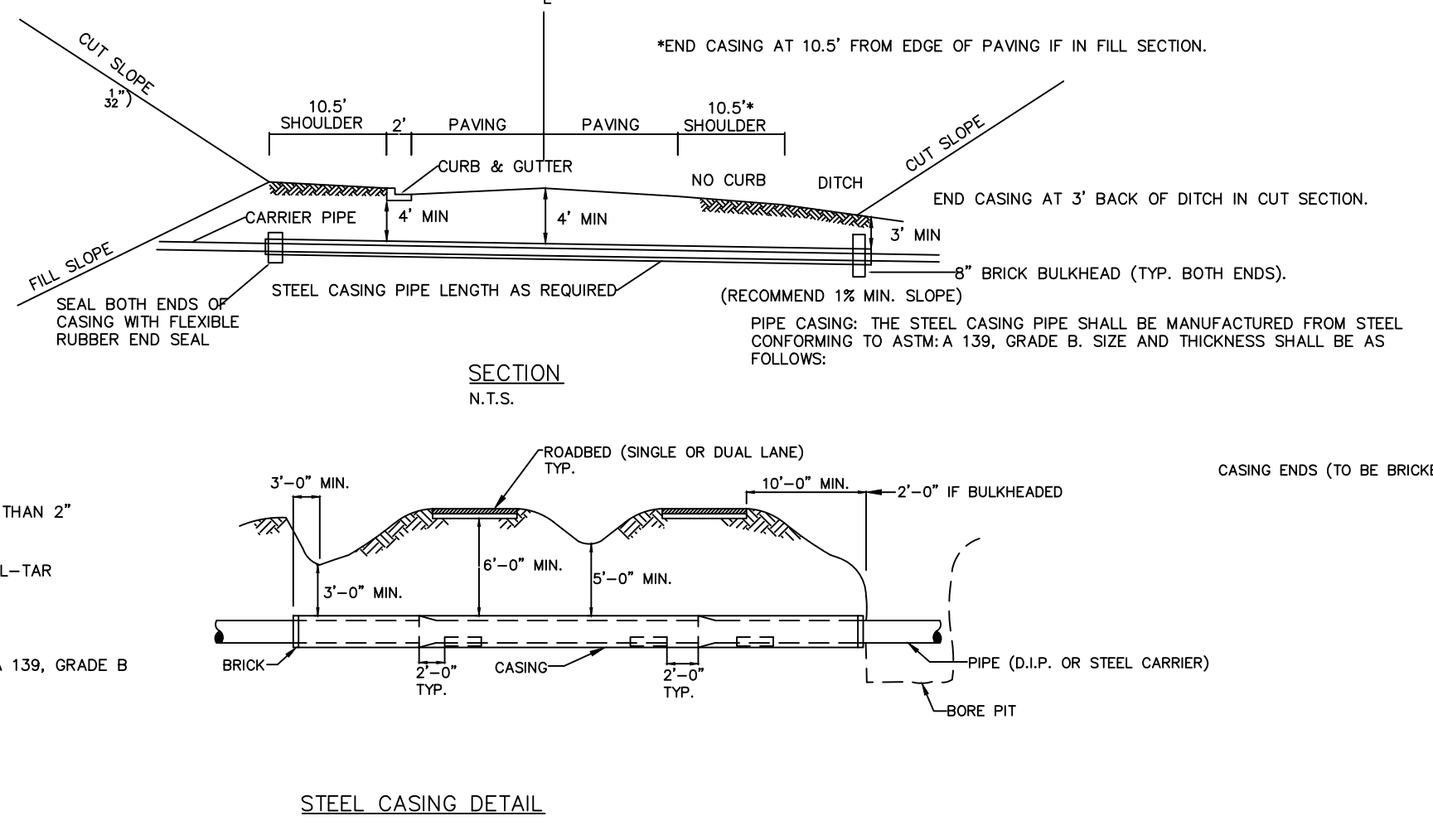
CLAYTON COUNTY WATER AUTHORITY

DATE:	12 FEBRUARY 2002	DETAIL TITLE:	MANHOLE SECTIONS	DETAIL NO.	21.1
DATE MODIFIED:	5 JANUARY 2004				
SCALE:	N.T.S.				
DRAWN BY:	SD				

UNDER HIGHWAYS

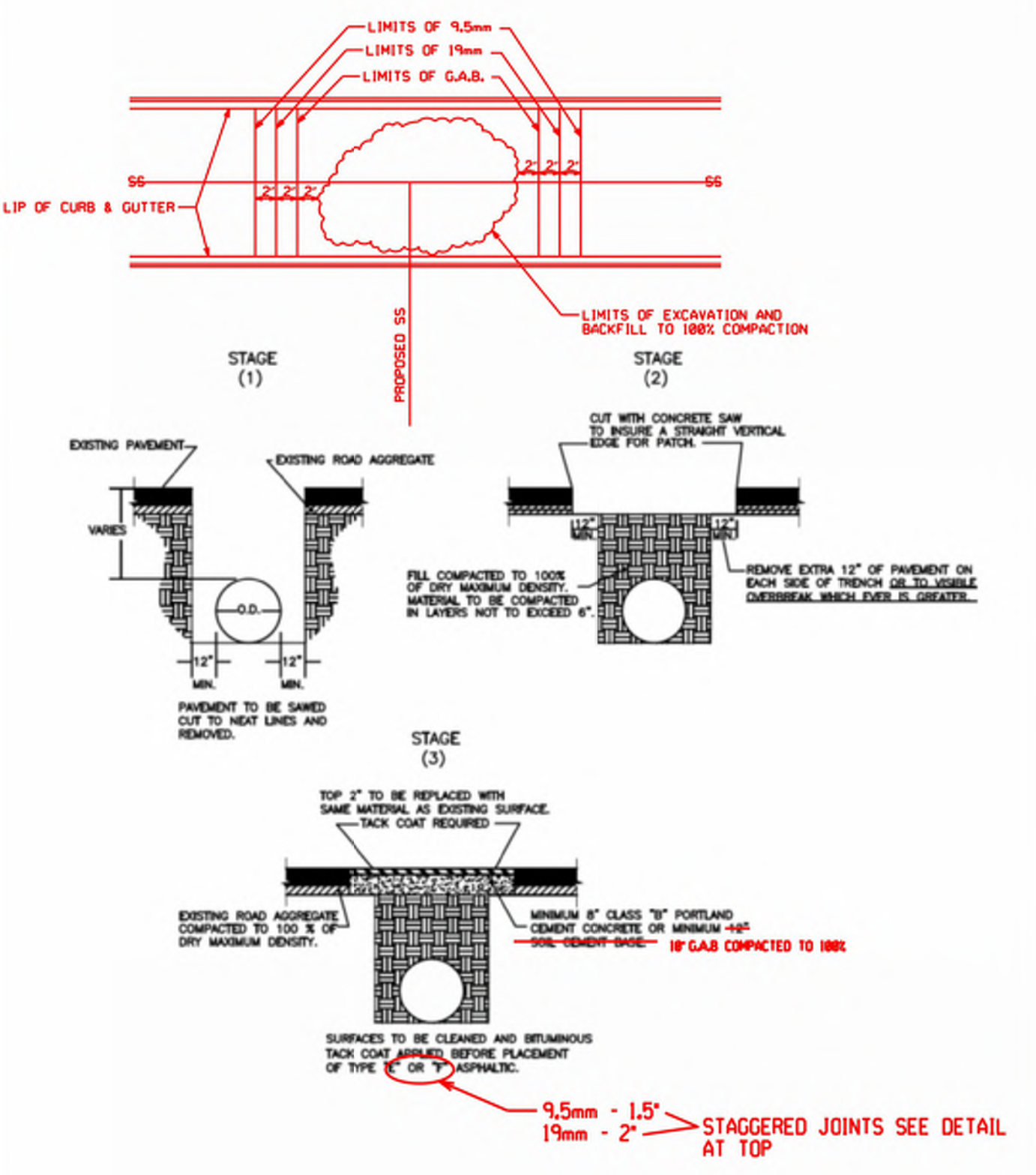
PIPE DIAMETER INCHES (I.D.)	CASING DIAMETER INCHES (I.D.) MIN.	WALL THICKNESS INCHES
6	12	0.250
8	16	0.250
10	18	0.250
12	20	0.375
16	24	0.375
18	30	0.375
20	30	0.375
24	36	0.375
30	42	0.375

- BORING NOTES:
- CASING TO BE STEEL PIPE (ROUND) WITH 45° BEVELED EDGES
 - ALL CUTS TO BE SQUARED TO END
 - JOIN ALL PIPE WITH DOUBLE BEAD BUTT WELDS
 - AUGER HEAD DIAMETER CANNOT EXCEED DIAMETER OF CASING BY MORE THAN 2"
 - BORING AND CASING SHALL BE INSTALLED SIMULTANEOUSLY
 - ANYTHING 6" OR LARGER REQUIRES BORE AND CASE
 - CASING PIPE SHALL HAVE A PROTECTIVE COATING CONSISTING OF A COAL-TAR PRIMER COAT AND AN APPLICATION OF HOT COAL-TAR ENAMEL $\frac{3}{4}$ " (±) THICK PLUS A BONDED 15 LB. ASBESTOS WRAP
 - PIT TO BE NO CLOSER THAN 4' BEHIND CURB OR EDGE OF PAVEMENT
 - TYPICAL PIT IS 25' LONG BY 20' WIDE
 - CASING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM: A 139, GRADE B
 - TWO STAINLESS STEEL CASING SPACERS ARE REQUIRED PER JOINT
 - CARRIER PIPE SHALL BE DUCTILE IRON
 - FIELD LOCKING GASKETS REQUIRED INSIDE OF CASING



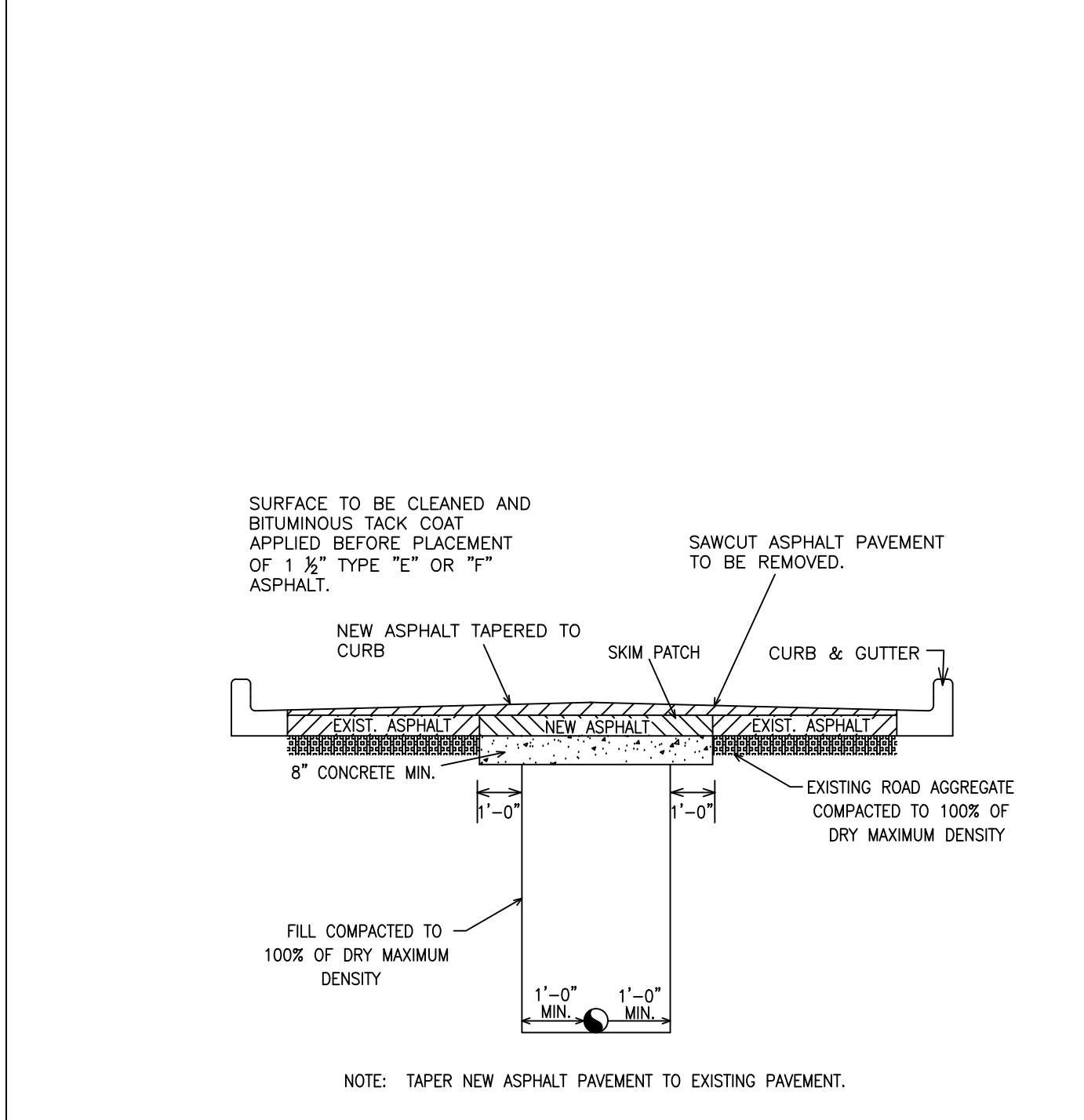
CLAYTON COUNTY WATER AUTHORITY

DATE:	12 FEBRUARY 2002	DETAIL TITLE:	STEEL CASING DETAIL	DETAIL NO.	
SCALE:	N.T.S.				
DRAWN BY:					



CLAYTON COUNTY WATER AUTHORITY

DATE:	12 FEBRUARY 2002	DETAIL TITLE:	TYPICAL ASPHALT REPLACEMENT	DETAIL No.	28.1
SCALE:	N.T.S.				
DRAWN BY:	WVB				



CLAYTON COUNTY WATER AUTHORITY

DATE:	12 FEBRUARY 2002	DETAIL TITLE:	TYPICAL ASPHALT TO CURB REPLACEMENT	DETAIL No.	29.1
SCALE:	N.T.S.				
DRAWN BY:	WVB				

OWNER
GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
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OPERATOR / 24 HOUR CONTACT
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 ATLANTA, GA 30308-3374
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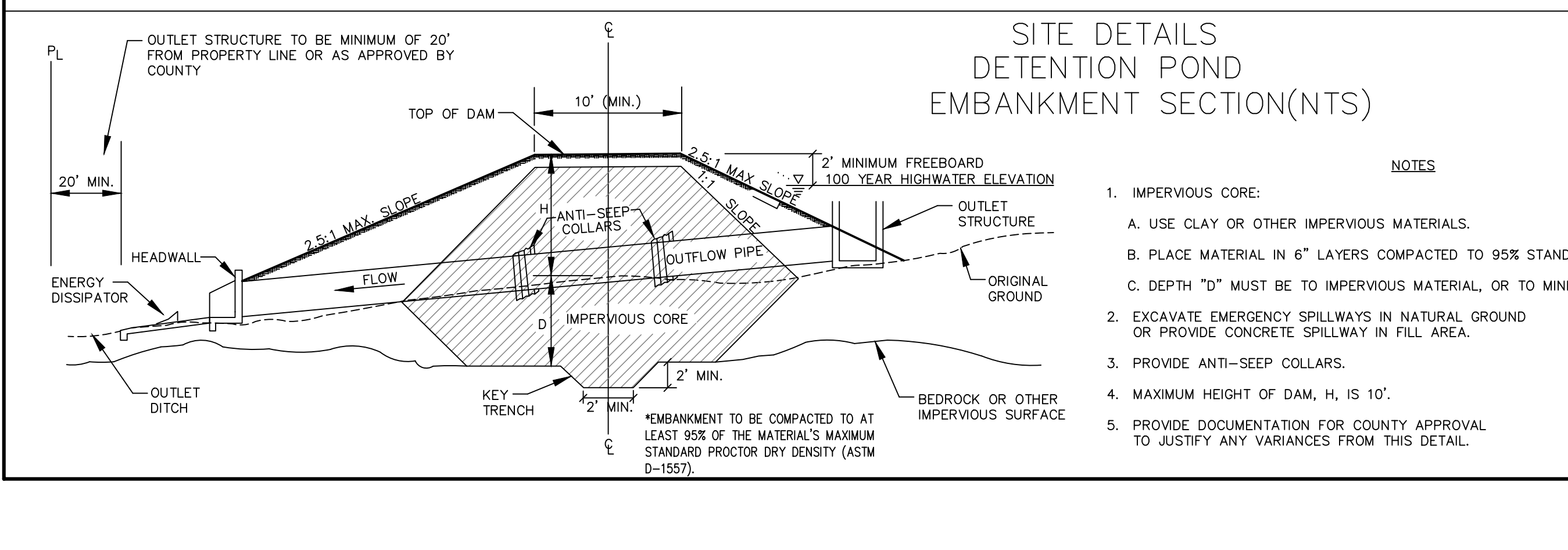
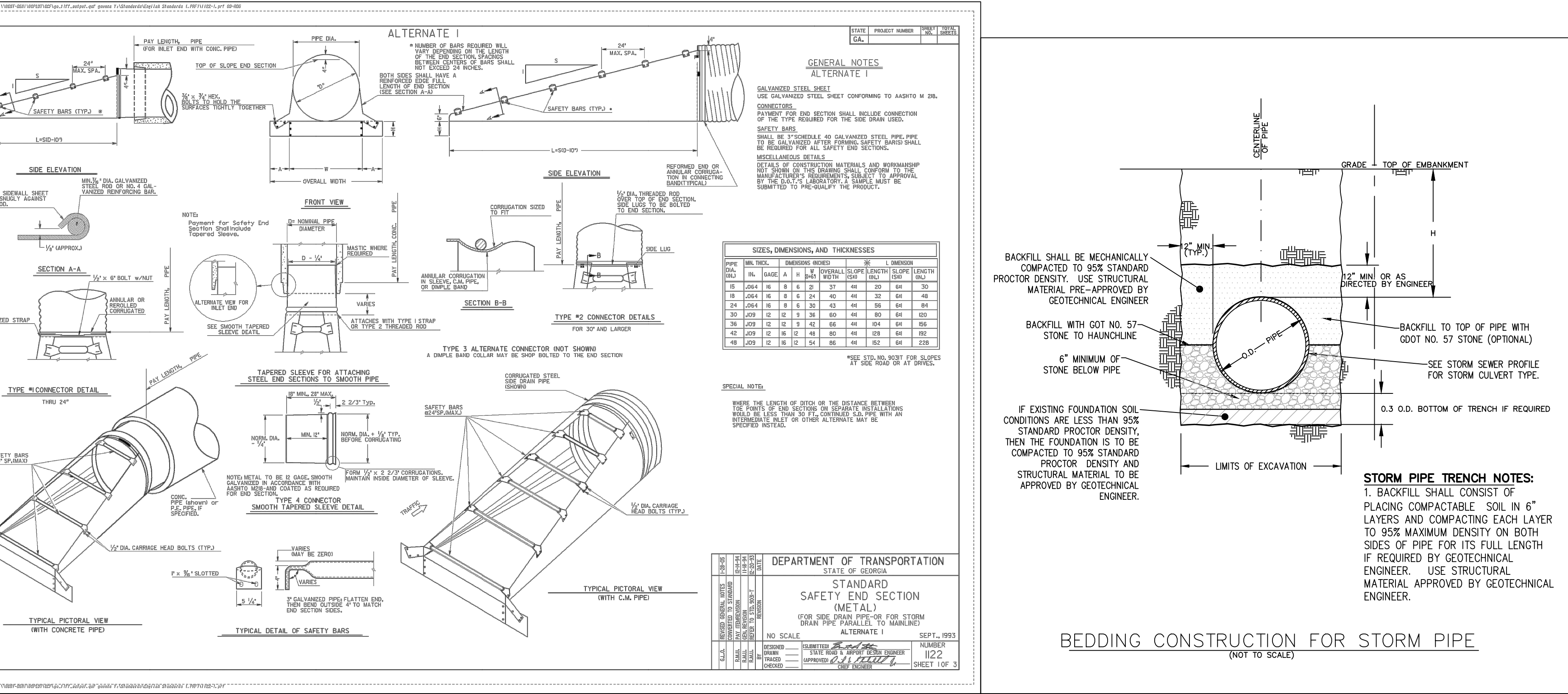
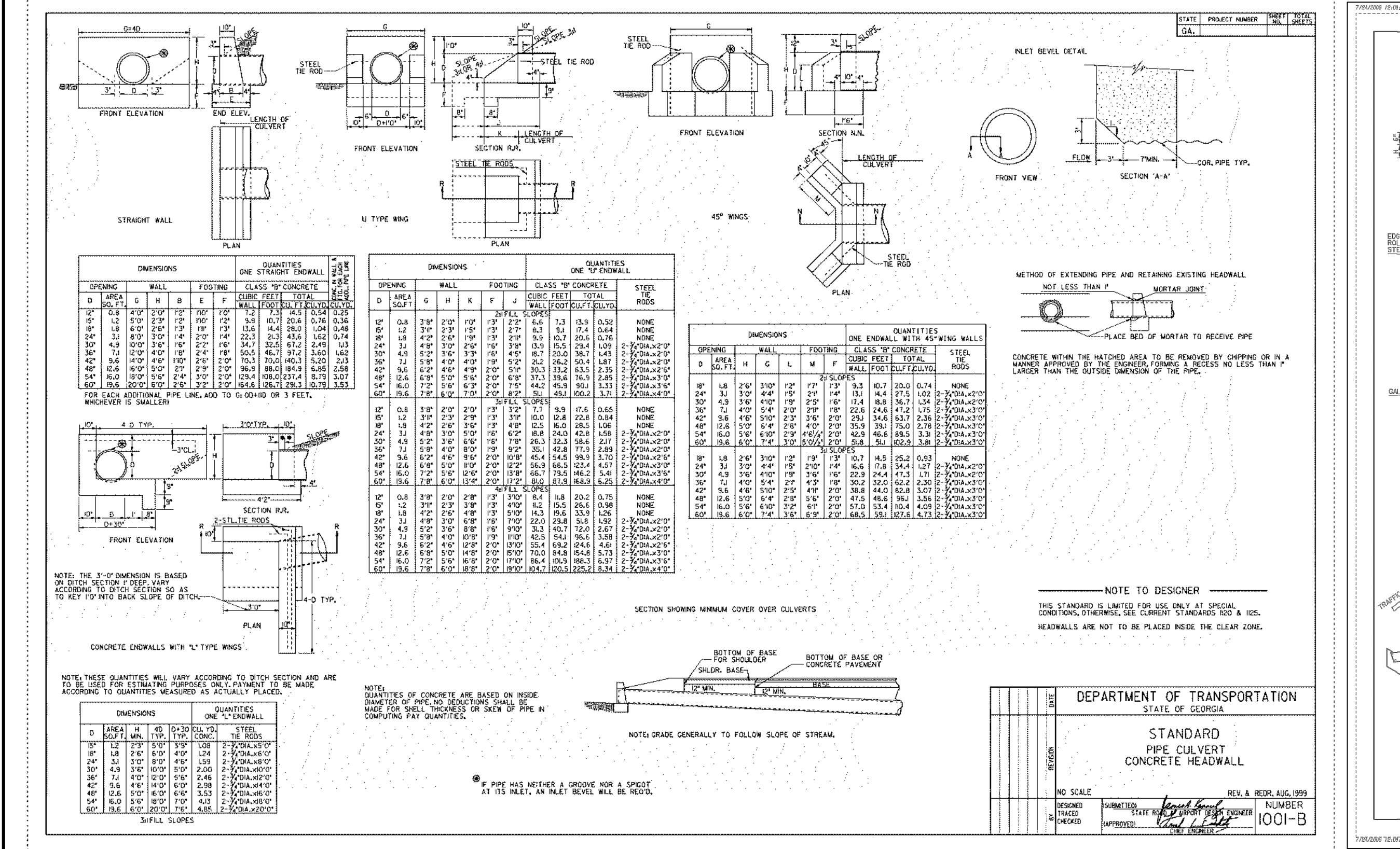
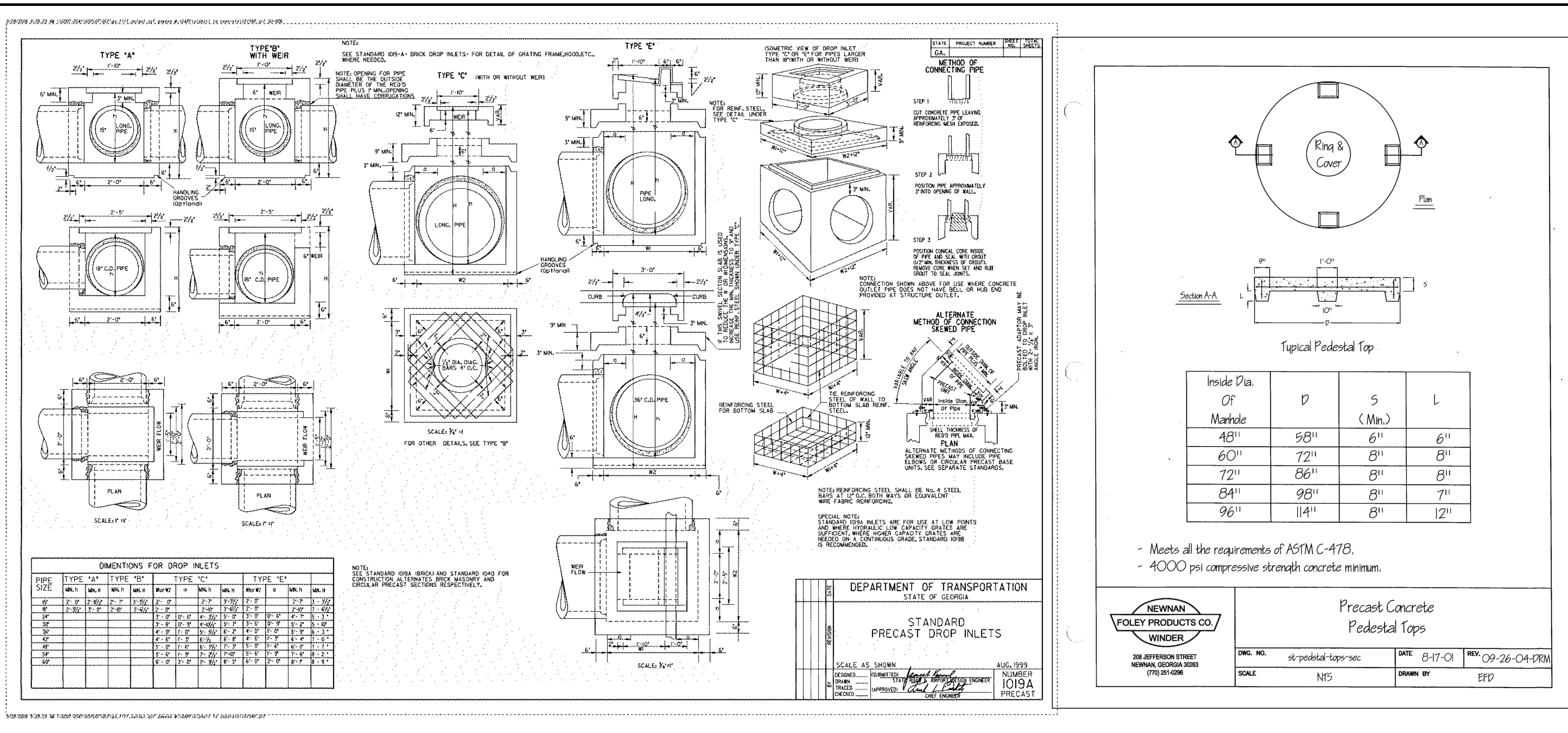
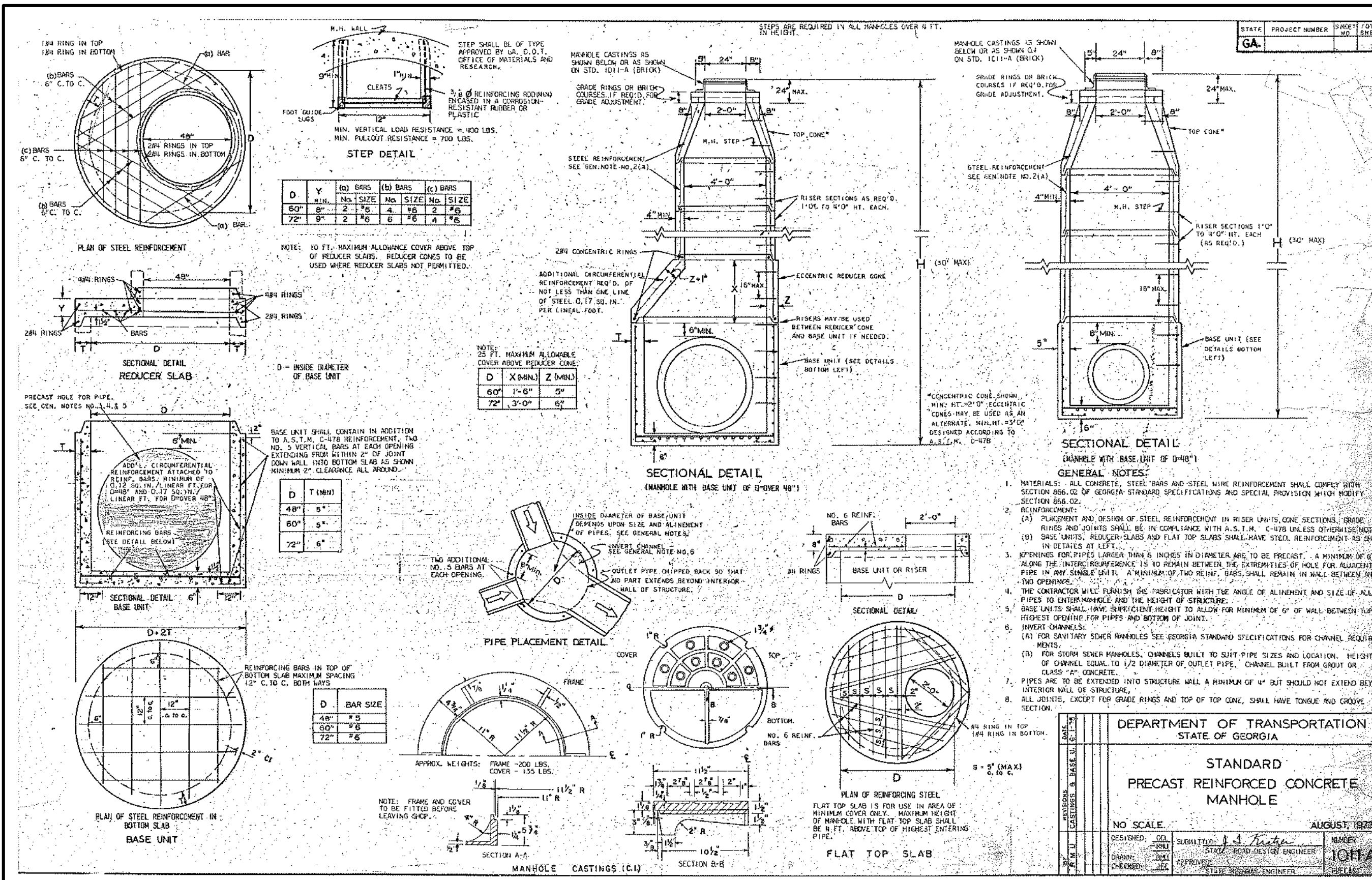
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 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
 CONTACT: MARK VAN DE WATER
 (770) 641-1942
 LEVEL II CERT. # 6960



AEC JOB # 18-4190.20 Dial 811 or Call 1-800-282-7411

4.0E/3/20		ADD DUMPSTER PAD AREA	REVISIONS	
3.0E/7/14/20		CMW MASTER SITE IMPROVEMENT SET		
2.0E/3/21/20		CMW REV. SEWER TIE IN LOCATION		
1.0E/7/13/19		MDV REV. SEWER TIE IN LOCATION		
NO.	DATE	BY		
APPROVALS		DR.	MDA	TR.
		DATE	CJW/MDV	
		SCALE	DATE 5/17/2019	
		DRAWING No.	SHEET No.	
			23 OF 30	

GEORGIA POWER CO., ATLANTA, GA.
 LAND DEPARTMENT
 GPC NOAHS ARK OPERATING HEADQUARTERS
 UTILITY DETAILS
 CLAYTON COUNTY, GEORGIA



OWNER
GEORGIA POWER COMPANY
241 RALPH MACCOL BOULEVARD NE
ATLANTA, GA 30308
CONTACT: BRYAN HARRIS (404) 506-2533

OPERATOR / 24 HOUR CONTACT
241 RALPH MACCOL BOULEVARD NE
BIN 10041
ATLANTA, GA 30308-3374
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ENGINEER
GEO. INC.
50 WARM SPRING CIRCLE
ROSWELL, GA 30075
CONTACT: MARK VAN DE WATER (770) 641-1842
LEVEL: 3 CERT. # 6960

GEORGIA811
Utilities Protection Center, Inc.
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REVISED

APPROVALS

DATE	BY	FOR

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
STANDARD PIPE CULVERT CONCRETE HEADWALL
NO SCALE
REV. 6/2008
1001-B

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
STANDARD PRECAST REINFORCED CONCRETE MANHOLE
NO SCALE
REV. 6/2008
1001-B

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
STANDARD PRECAST DROP INLETS
NO SCALE AS SHOWN
REV. 6/2008
1015-A

GPC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
GPC NOAH'S ARK OPERATING HEADQUARTERS
CLAYTON COUNTY, GEORGIA

STORM DETAILS

DR. MDA TR. CRK CJK/MDV
SCALE DATE 5/17/2019
DRAWING No. SHEET No. 24 OF 30

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:
TEMPORARY METHODS:

MULCHES: SEE STANDARD (Ds1) - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY. SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT BY BIND MULCH MATERIAL. REFER TO STANDARD (Toc) TACKIFIERS. RESINS SUCH AS CURASOL OR TERRATAK 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 (Toc) TACKIFIERS.

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 A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT

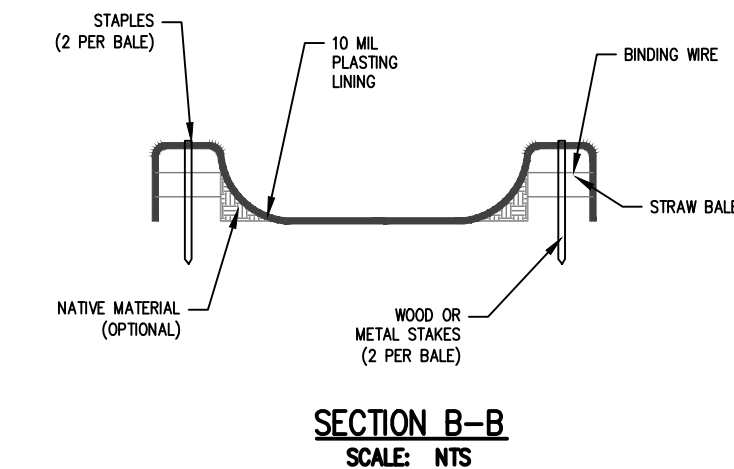
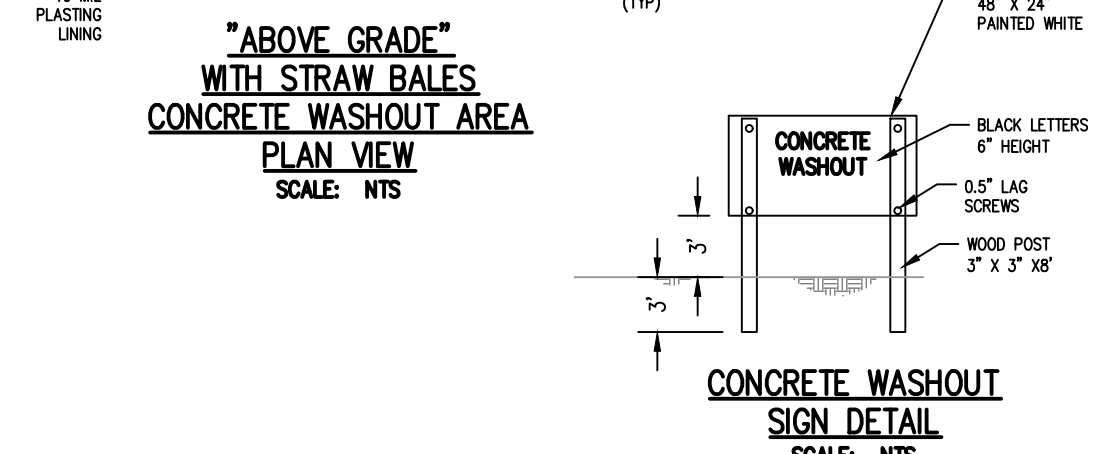
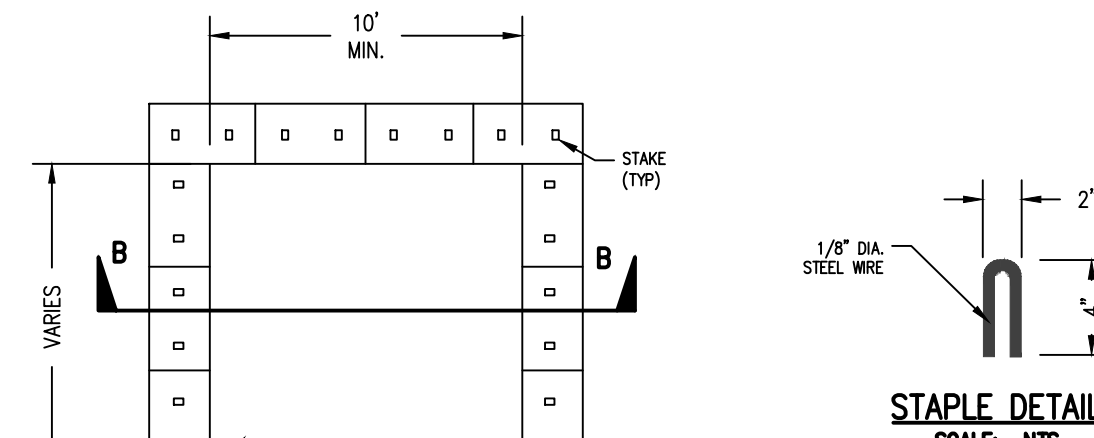
PERMANENT METHODS:

PERMANENT VEGETATION: SEE STANDARD (Ds3) - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOP SOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIIVE SOIL MATERIAL. SEE STANDARD Tp - TOP SOILING.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD Cr-CONSTRUCTION ROAD STABILIZATION.

Du DUST CONTROL ON DISTURBED AREAS



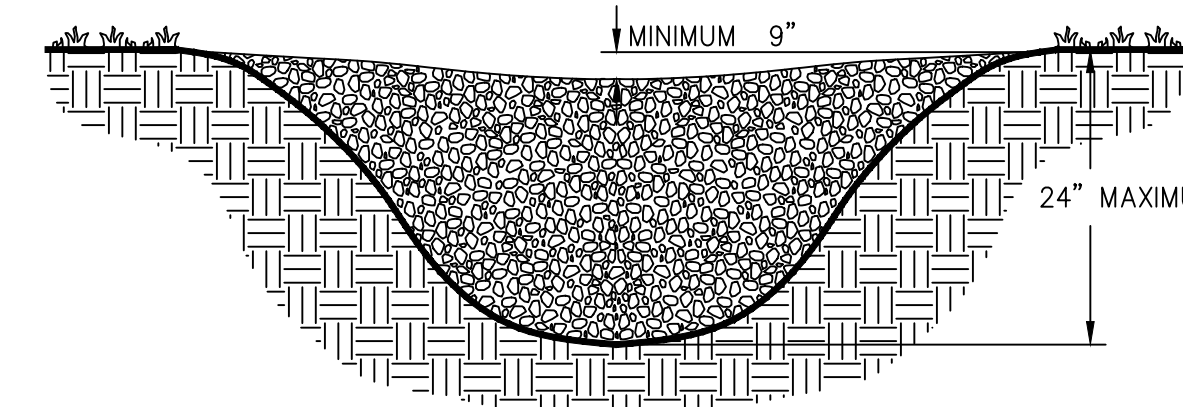
NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARD, THE CONCRETE SHOULD BE BROKE UP, REMOVED, AND DISPOSED OF PER THE MUNICIPALITIES REGULATIONS. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 INCHES FOR ABOVE GRADE FACILITIES AND 12 INCHES FLOW BELOW GRADE FACILITIES.
- HAYBALES MAY SUBSTITUTE WOOD FRAME (IF ALLOWED BY LOCAL GOVERNMENT AGENCY).
-

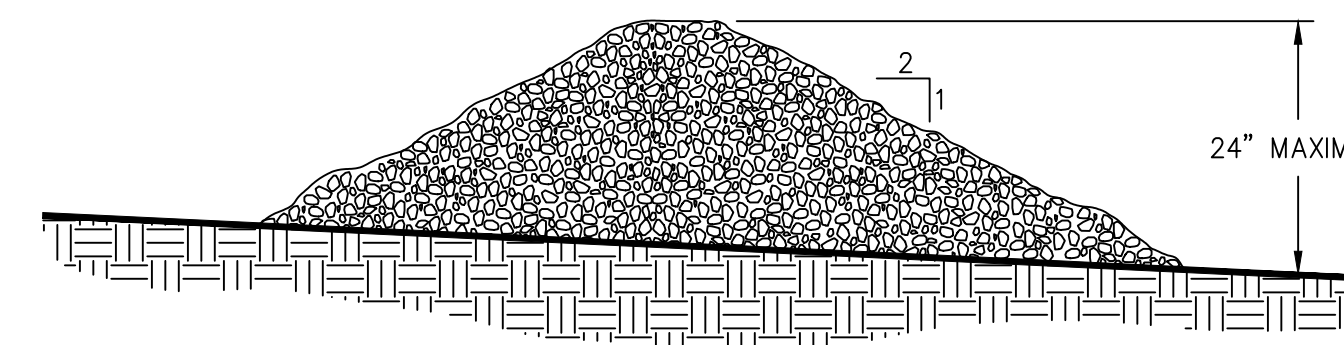
CONCRETE WASHOUT AREA DETAIL
NOT TO SCALE

STONE CHECK DAM

CROSS SECTION

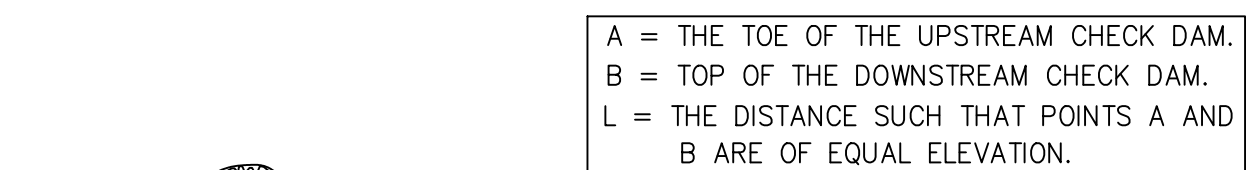


PROFILE VIEW



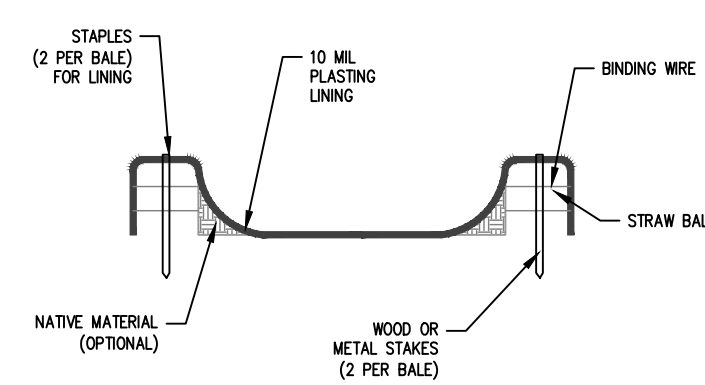
Cd-S STONE CHECK DAMS
NOT TO SCALE

SPACING BETWEEN CHECK DAMS



NOTES:

- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
- THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
- THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
- THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
- THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
- GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).



NOTES:

SPECIFIC PRODUCT PRACTICES:
Petroleum Products - All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. If petroleum products will be present at the site, they will be stored in tightly sealed containers, which are clearly labeled and placed in liquid-tight secondary containment equal to at least 110% of the volume of petroleum products being stored. An impermeable membrane shall be used as a liner if an in-ground pit is used as secondary containment for petroleum products.

SPILL CONTROL AND RESPONSE PRACTICES:

The owner or the site superintendent will designate a spill prevention and response team. In addition, the following practices will be followed for spill cleanup:

- Information - Manufacturers recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and the location of the information and cleanup supplies (MSDS Sheets).
- Equipment - Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the material stored on-site.
- Response - All spills will be cleaned up immediately upon discovery.
- Safety - The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Reporting - Spills of toxic or hazardous material (if present on site) will be reported to the appropriate state or local government agency, regardless of the size.
- Record keeping - The spill prevention plan will be modified to include measures to prevent this type of spill from recurring as well as improved methods for cleaning up future spills should they occur. A description of each spill, what caused it, and the cleanup measures used will be maintained with the plan.

INSPECTION AND MAINTENANCE:

- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- Dedicated fueling areas should be protected from stormwater runoff and should be located at least 50 feet away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.

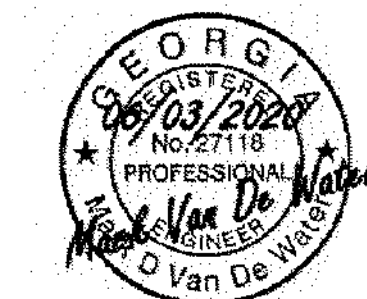
"ABOVE GRADE"
WITH STRAW BALES
FUELING AREA
PLAN VIEW
SCALE: NTS

FUELING AREA DETAIL
SCALE: NTS

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(770) 641-1942
LEVEL II CERT. # 6960



AEC JOB # 18-4190-20

Dial 811 or Call 1-800-282-7411

4.08/3/20		AW	ASBESTOS PAD AREA	REVISIONS	
3.04/7/20		AW	MASTER SITE IMPROVEMENT SET		
2.01/3/20		AW	REV. SEWER TIE IN LOCATION		
1.08/7/19		MDV	REV. SEWER TIE IN LOCATION		
NO.	DATE	BY			
APPROVALS					
		DR.	MDA	TR.	CRK
		SCALE		DATE	
		DRAWING No.		SHEET No.	
				26 OF 30	

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT

GPC NOAHS ARK OPERATING HEADQUARTERS

EROSION CONTROL DETAILS

CLAYTON COUNTY, GEORGIA

Ds1 MULCHING ONLY

MULCHING BY ITSELF MAY BE USED AS TEMPORARY STABILIZATION (MULCHING ONLY) WHEN SEED WILL NOT HAVE A SUITABLE GROWING SEASON. STABILIZATION MAY BE ACCOMPLISHED WITH: STRAW - 2 TONS/ACRE OR HAY-2.5 TONS/ACRE PROVIDED THAT THE APPROPRIATE DEPTH (2"-4") IS ACHIEVED. ALL HAY OR STRAW SHALL BE ANCHORED WITH A TACKIFIER (Tb) (EMULSIFIED ASPHALT, GRADE AE-5 OR SS-1, AT A RATE OF 100 GAL. OF EMULSIFIED ASPHALT AND 100 GAL. OF WATER PER TON OF MULCH), AND PROVIDED THAT A CONTINUOUS COVERAGE OF 90% OR GREATER OF THE SOIL SURFACE IS MAINTAINED. OTHER ACCEPTABLE MULCHES ARE WOOD WASTE, BARK, OR SAWDUST SPREAD 2"-3" DEEP. WHEN MULCH IS USED WITH SEED, FOLLOW THE SPECIFICATIONS FOR TEMPORARY SEEDING (Ds2) OR PERMANENT SEEDING (Ds3).

Ds2 TEMPORARY GRASSING

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. MULCH, LIME AND FERTILIZER MAY BE OMITTED UNLESS LOCAL CONDITIONS OR SOIL TESTS INDICATE OTHERWISE. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION. FOR ADDITIONAL OPTIONS OR IF THE AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION (Ds3) SHALL BE USED. REFER TO THE COMPANION PLANTING SCHEDULE UNDER PERMANENT GRASSING (Ds3).

Ds2 GRASSING SCHEDULE (FOR TEMPORARY)

SPECIES	PLS. RATE	DATES	LIME
RYEGRASS (ANNUAL)	40 LBS./AC.	8/15 - 4/1	1 TON/ACRE
WEeping LOVEGRASS (PERENNIAL)	4 LBS./AC.	3/15 - 6/15	1 TON/ACRE
SUDANGRASS	60 LBS./AC.	4/1 - 8/15	1 TON/ACRE

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUI-VALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST	6-12-12	1500 LBS PER ACRE	50-100 LBS PER ACRE 1- 2-
	SECOND MAINTENANCE	6-12-12 10-10-10	1000 LBS PER ACRE 400 LBS PER ACRE	
2. COOL SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS PER ACRE	0-50 LBS PER ACRE 1-
	SECOND MAINTENANCE	10-10-10	1000 LBS PER ACRE 400 LBS PER ACRE	
3. GROUND COVERS	FIRST	10-10-10	1300 LBS PER ACRE 3-	-
	SECOND MAINTENANCE	10-10-10	1300 LBS PER ACRE 3- 1100 LBS PER ACRE	
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
	SECOND MAINTENANCE	10-10-10	1100 LBS PER ACRE	-
5. SHRUB LESPEDEZA	FIRST	0-10-10	700 LBS PER ACRE	-
	SECOND MAINTENANCE	0-10-10	700 LBS PER ACRE 4-	
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS PER ACRE	30 LBS PER ACRE 5-
7. WARM SEASON GRASSES	FIRST	6-12-12	1500 LBS PER ACRE	50-100 LBS PER ACRE 2- 6-
	SECOND MAINTENANCE	6-12-12 10-10-10	800 LBS PER ACRE 400 LBS PER ACRE	
8. WARM SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS PER ACRE	50 LBS/ACRE 6-
	SECOND MAINTENANCE	6-12-12 10-10-10	800 LBS PER ACRE 400 LBS PER ACRE	

- 1- APPLY IN SPRING FOLLOWING SEEDING.
- 2- APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- 3- APPLY IN 3 SPLIT APPLICATIONS.
- 4- APPLY WHEN PLANTS ARE PRUNED.
- 5- APPLY TO GRASS SPECIES ONLY.
- 6- APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

Ds1 Ds2 Ds3 DISTURBED AREA STABILIZATION

GUIDE SPECIFICATION FOR PERMANENT SEEDING

Section 02936

PERMANENT HYDROSEEDING

- PART 1 GENERAL**
- 1.01 SUMMARY
- A. This section specifies a seed mix applied to an area requiring sustained vegetation.
- 1.02 SUBMITTALS
- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.
- 1.03 DELIVERY, STORAGE, AND HANDLING
- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from weather damage, excessive temperatures, rodents, and construction operations.
- PART 2 PRODUCTS**
- 2.01 ACCEPTABLE MANUFACTURER
- A. PENNINGTON SEED INC. SEED PRODUCTION - 1280 ATLANTA HWY - MADISON, GA 30650, 800-286-6100 (Fax:706-342-8071)
- 2.02 MATERIALS
- A. Mixed sustainable slope seed mixture: Slopemaster by Pennington Seed, Inc applied at a minimum rate of 50lbs (1.15lbs/1000 square feet) of the warm season mixture and 100lbs (2.25lbs/1000 square feet) of the cool season mixture with the following characteristics.
1. Material: Permanent and temporary seed varieties.
 2. Minimum: 5% Durana White Clover.
 3. Inert Material: Less than 1%.
 4. Other Crop Seed: Less than .5%.
 5. Weed Seed: Less than 1%.
 6. Coating: Inoculated with Germax Seed Treatment (Rhizokote XL and Apron XL) and MYCO Advantage coated.
 7. Packaging: 25lb Seatac bags.

GUIDE SPECIFICATION FOR PERMANENT SEEDING

- depth of the slurry mulch taking care not to super saturate or wash away the slurry and seed.
- B. After seed germination has occurred and plants are visible the frequency of irrigation should be cut back with heavier application rates still making sure not to super saturate or wash away the slurry and seed.
- C. Repair all seed washings and erosion.
- D. Future fertilization should occur whenever applicable at the recommended rate based on soil analysis with a low Nitrogen fertilizer.
- 3.04 CLEANING AND PROTECTION
- A. Wash hands after seeding to remove all seed treatment or additive residue that could be remaining.
- B. Advise owner or engineer of methods for protection of seeded areas.

END OF SECTION

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04/05/11

GUIDE SPECIFICATION FOR PERMANENT SEEDING

- B. Flexterra HP-FGM (Flexible Growth Medium) Fiber Mulch: Apply according to manufacturer recommendations. This product should be applied at a minimum rate of 3000 lbs per acre (70 lbs/1000 square feet).
- C. Soil Sampling: A soil sample should be obtained at a time as close to final grade as possible but at least a week prior to permanent seeding. The soil sample should be obtained by a representative of Pennington Seed, Inc. Contact Dusty Sweat 678-449-6632, 706-752-4287, dsweet@penningtonseed.com to schedule a site visit and soil sample.
- D. Fertilizer: A balanced professional grade fertilizer containing UMAXX, UFLEX, or Nitroform source of Nitrogen should be applied at a rate of 350 lbs per acre (8.0 lbs/1000 square feet) or according to soil sample results.
- E. Lime: The soil amendment Neutral Lime Dry should be applied hydraulically at a rate of 80 lbs per acre (1.85 lbs/1000 square feet) or according to soil sample results. Additionally, pelletized lime should be applied and incorporated into the soil at a rate of 2000 lbs per acre (46 lbs/100 square feet) during final grade or according to soil sample results.
- F. Soil Amendments:
1. The soil amendment JumpStart should be applied hydraulically at a rate of 1 gallon per acre (0.3 gal/1000 square feet) or according to soil sample results.
 2. The soil amendment BioPrime should be applied hydraulically at a rate of 40 pounds per acre (0.92 lbs/1000 square feet) or according to soil sample results.
- G. Equipment: Equipment shall be a hydroseeding machine and shall have a built in mechanical agitation system and operating capacity sufficient to agitate, suspend, and homogeneously mix a hydraulic slurry containing not less than 44lbs of organic mulching amendment plus fertilizer, additives, and solids for each 150 gallons of water.

PART 3 EXECUTION

- 3.01 SUBSTRATE PREPARATION
- A. Examine substrates and conditions where material will be applied. Ensure that an adequate seedbed has been prepared. If no seedbed has been prepared notify project manager and a representative from Pennington Seed, Inc. immediately and begin seedbed preparation by disking, tilling, dozer tracking, aerating, or aerating seeded to produce optimal seed to soil contact. Remove rocks, sticks, straw, dead grass, etc. to ensure seedbed is free of debris and will provide an ideal seedbed. Do not

GUIDE SPECIFICATION FOR PERMANENT SEEDING

- proceed with installation until unsatisfactory conditions are corrected. Only apply product to geotechnically stable slopes that have been designed and built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the face slope.
- B. All slope gradients should be prepared to agricultural standard recommended by the Department of Agricultural within the state where the work is being performed. Agricultural Lime or pelletized lime should be added during the slope preparation stage and tracked in at the rate recommended according to soil analysis. Apply agricultural lime or pellet lime at a rate of 2000lbs per acre or according to soil test results.
- C. Examine related work including irrigation and grading of surface before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work. All grading or tracking on slopes should be performed so that all cleats are running perpendicular to the flow of water down the hill.
- 3.02 INSTALLATION
- A. Strictly comply with manufacturer's installation instructions and recommendations.
- B. Mix the seed, soil amendments, and professional fertilizer with a full tank rate of the Flexible Growth Medium and apply along the areas to be vegetated being sure to apply seed and amendments at the specified rates. Slopemaster warm season seed mixture should be applied during the late spring and summer months at a minimum of 50lbs per acre (1.15lbs/1000 square feet). The cool season Slopemaster seed mixture should be applied during the fall and early spring at a minimum of 100lbs per acre (2.25lbs/1000 square feet). If assistance is needed with mixing, applying, or distribution of hydraulic slurry please contact Project Manager and a representative from Pennington Seed, Inc. for additional information. Mix and apply the Flexible Growth Medium at a rate of 50lbs per 150 gallons of water over freshly seeded areas. Hydromulch should be applied in multiple directions so that shadowing does not occur and to insure uniformity of the application. Confirm the loading rates with equipment manufacturers. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.
- D. Exercise special care to prevent any of the slurry from being sprayed onto any hardscape areas including concrete walks, fences, walls, buildings, etc. Remove all slurry sprayed onto these surfaces immediately.
- 3.03 MAINTENANCE
- A. Frequent light irrigation will need to be applied to seeded areas if no natural rain events have occurred within one week of hydroseeding. Water should be applied long enough to moisten the soil thoroughly to the

GPC Soil Stabilization and Vegetation Establishment Material

Standard Material (unless otherwise specified)

Material	Application Rate/Acre	Total Material
Slopemaster Cool Season Seed Mix (lbs)	100	25
Pelletized Lime (lbs)	2000	500
Neutalime (lbs)	80	20
19-19-19 Fertilizer (lbs)	400	100
Jumpstart (Gallons)	2.5	1
BioPrime (lbs)	40	10
Flexterra Hydraulic Mulch* (lbs)	3000	750

*Per Manufacturer Specification, depending on slope gradient

Flexterra Application Recommendations

Condition	Max Continuous Slope Length	Application Rate
3:1	75 ft.	3000 lbs.

WARM SEASON

25lb Slopemaster Coastal Summer Mix
20% Unhulled Sahara Bermuda
20% Hulled Mohawk Bermuda
25% Pensacola Bahia
10% Durana Clover
10% Browtop Millet
15% Weeping Lovegrass

Seeding Dates: April 15 - Sept 15
Seeding Rate: 50lbs/acre

COOL SEASON

25lb Slopemaster Coastal Winter Mix
40% Unhulled Sahara Bermuda
20% Pensacola Bahia
20% Greystone Fescue
10% Rye Grass
10% Durana Clover

Seeding Dates: Sept 15 - April 15
Seeding Rate: 100lbs/acre

25lb Slopemaster Summer Mx

55% Sahara/Mohawk Bermudagrass
20% Sericea Lespedeza
10% Durana Clover
10% Browtop Millet
5% Weeping Lovegrass

Seeding Dates: April 15 - Sept 1
Seeding Rate: 50lbs/acre

25lb Slopemaster Reclaim Winter Mx

65% GreystoneTail Fescue
10% Mohawk Bermuda
10% Unhulled Sahara Bermuda
10% Durana Clover
5% Small Grains

Seeding Dates: Sept 1 - April 15
Seeding Rate: 100lbs/acre

Standard summer and Reclaim winter mix should be used north of the Fall Line in the Piedmont and Mountain regions.

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Mark Van De Water

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LEVEL II CERT. # 6960



AEJ JOB # 18-4190-20
Dial 811 or Call 1-800-282-7411

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT

GPC NOAHS ARK OPERATING HEADQUARTERS

EROSION CONTROL DETAILS
CLAYTON COUNTY, GEORGIA

DR.	MDA	TR.	CRK
			CJW/MDV
SCALE		DATE	
		5/17/2019	
DRAWING No.		SHEET No.	
		27 OF 30	

CONSTRUCTION SPECIFICATIONS

TYPE NS SEDIMENT BARRIER (Sd1-NS)

NONSENSITIVE AREAS
SEDIMENT BARRIERS BEING USED AS TYPE NS SHALL HAVE A SUPPORT SPACING OF NO GREATER THAN 6 FEET, ON CENTER, WITH EACH DRIVEN INTO THE GROUND A MINIMUM OF 18 INCHES. TYPE NS SEDIMENT BARRIERS SHALL HAVE A P-FACTOR NO GREATER THAN 0.045. SEDIMENT BARRIER TYPES A AND B WILL BE CLASSIFIED AS NON-SENSITIVE.

TYPE S SEDIMENT BARRIER (Sd1-S)

SENSITIVE AREAS
SEDIMENT BARRIERS BEING USED AS TYPE S SHALL HAVE A SUPPORT SPACING OF NO GREATER THAN 4 FEET ON CENTER, WITH EACH DRIVEN INTO THE GROUND 18 INCHES. TYPE S SEDIMENT BARRIERS SHALL HAVE A P-FACTOR NO GREATER THAN 0.030. SEDIMENT BARRIER TYPE C WILL BE CLASSIFIED AS SENSITIVE.

INSTALLATION

TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED ACCORDING TO THE FOLLOWING SPECIFICATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE DESIGN PROFESSIONAL.

ALONG ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE USED. THE TWO ROWS TYPE S SHOULD BE PLACED A MINIMUM OF 36 INCHES APART.

FOR INSTALLATION OF THE BARRIERS, SEE FIGURES 6-27.1, 6-27.2, 6-27.3 AND 6-27.4, RESPECTIVELY. IT IS IMPORTANT TO REMEMBER THAT NOT ALL SEDIMENT BARRIERS NEED TO BE TRENCHED INTO THE GROUND BUT MOST TALLER SEDIMENT BARRIERS DO.

POST INSTALLATION SHALL START AT THE CENTER OF A LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED NO GREATER THAN 6 FEET APART FOR TYPE NS SEDIMENT BARRIERS AND NO GREATER THAN 4 FEET APART FOR TYPE S SEDIMENT BARRIERS. FOR POST SIZE REQUIREMENTS, SEE TABLE 6-27.2. FASTENERS FOR WOOD POSTS ARE LISTED IN TABLE 6-27.3.

FASTENERS FOR SILT FENCE

REFER TO FIGURE 6-27.5 AND TABLES 6-27.2 AND 6-27.3.

MAINTENANCE

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. THIS IS EXTREMELY IMPORTANT WHEN SELECTING BMPs WITH A LOWER PROFILE.

SEDIMENT BARRIERS SHALL BE REPLACED WHENEVER THEY HAVE DEGRADED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE PRODUCT IS REDUCED (APPROXIMATELY SIX MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT.

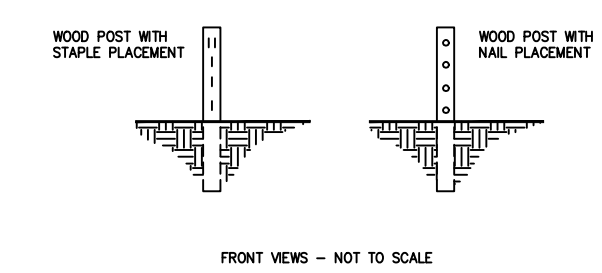
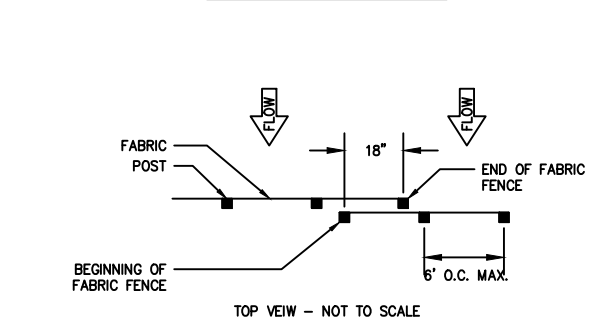
TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

PRODUCTS

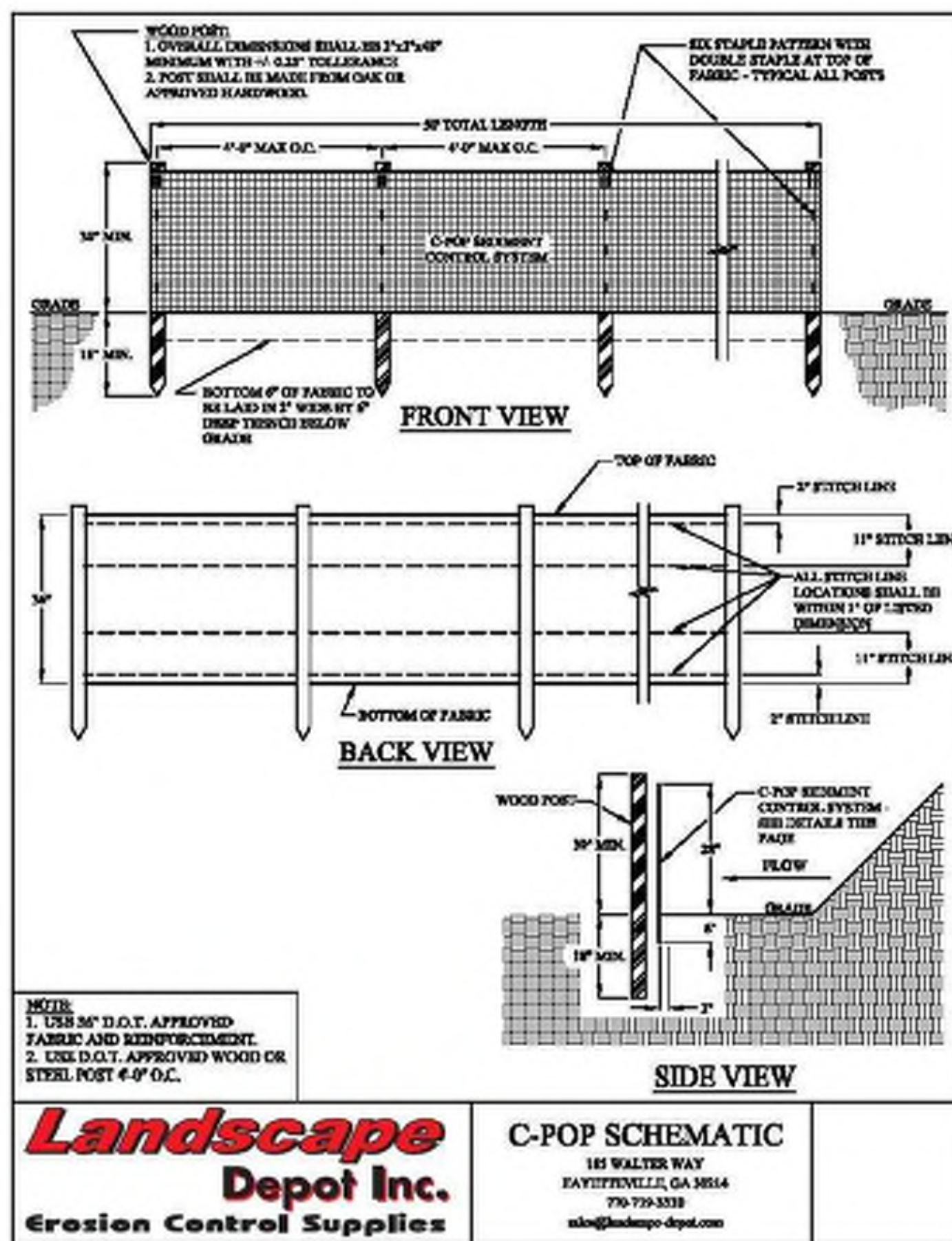
ALL ALLOWABLE PRODUCTS MUST BE ON THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S SEDIMENT BARRIERS APPROVED PRODUCTS LIST (APL).

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18\"/>



NOTES:
1. USE 3\"/>

Landscape Depot Inc.
Erosion Control Supplies

C-POP SCHEMATIC
185 WALTER WAY
KAYTETTVILLE, GA 30154
770-729-3318
info@landscape-depot.com

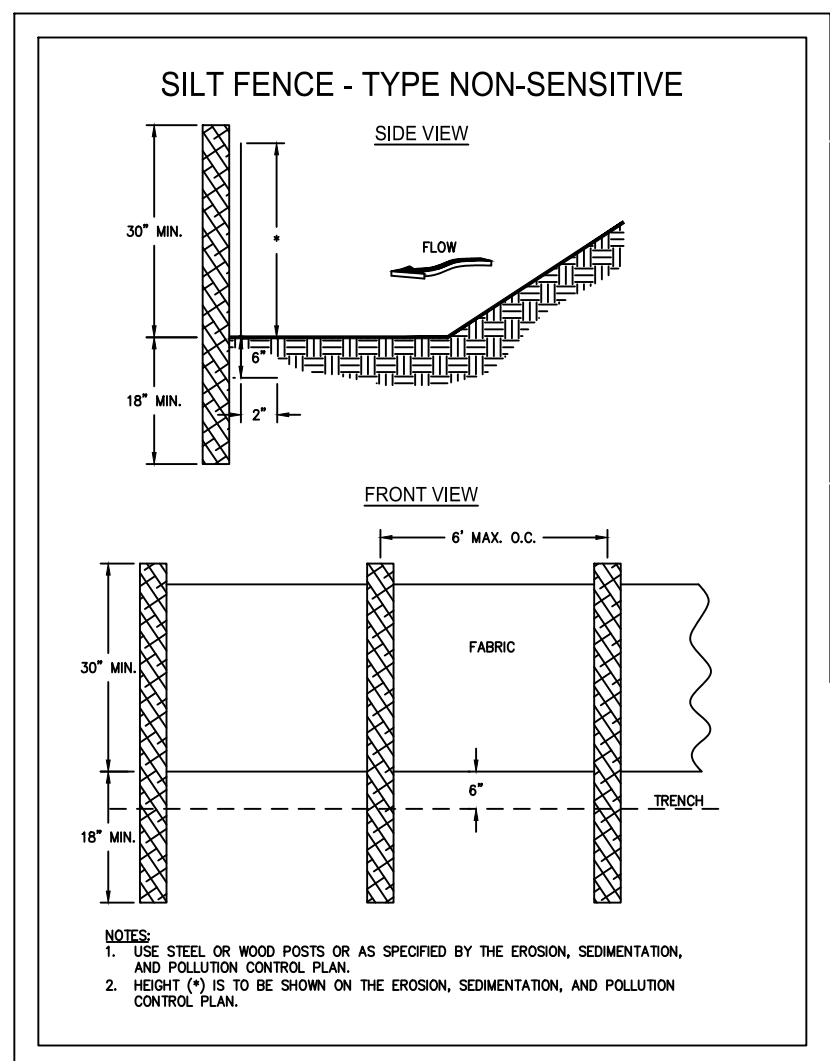


Table 6-27.2 Post Size

Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood Oak Steel	3\"/>
S	4'	Steel Oak	1.3lb./ft. min 2\"/>

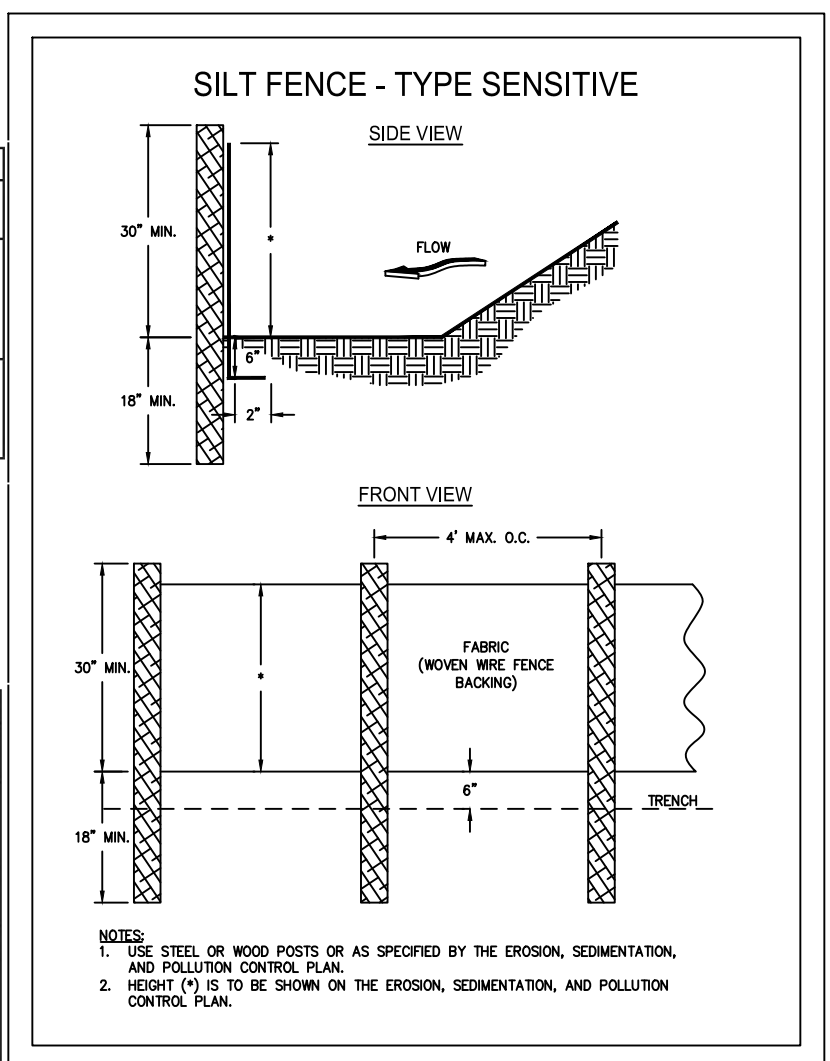


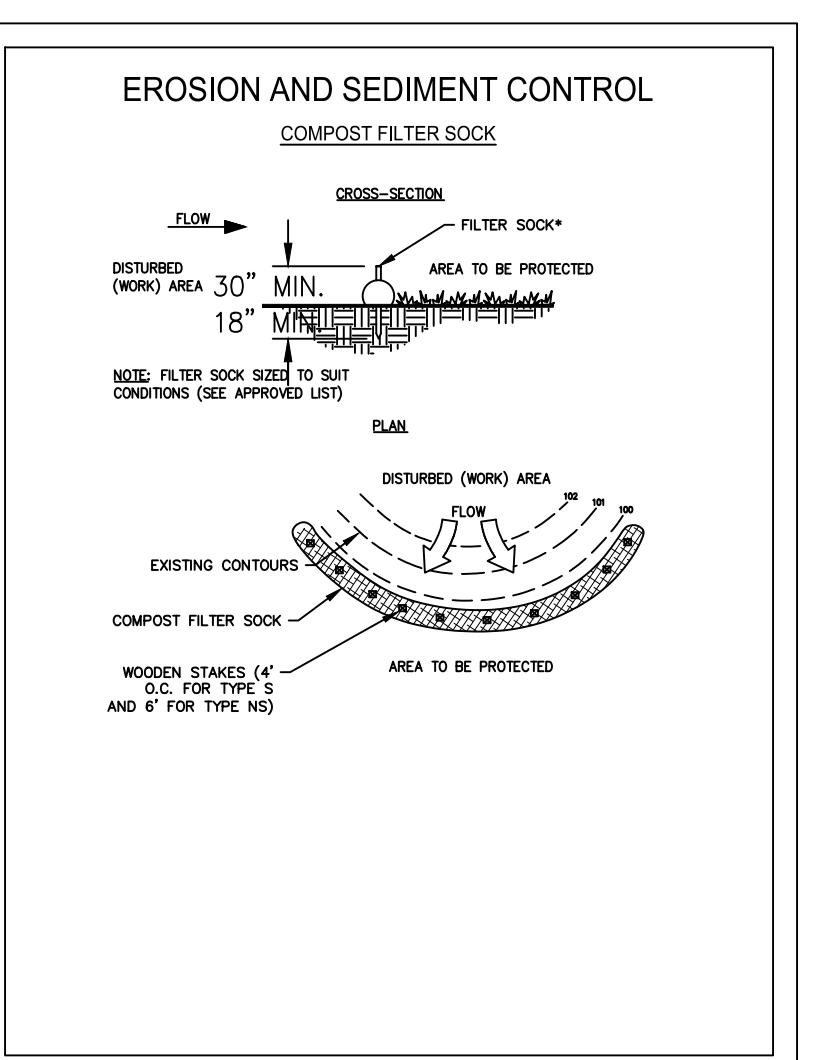
Table 6-27.3 Fasteners for Wood Posts

Wire	Guage	Crown	Legs	Staples / Post
Staples	17 min.	3/4\"/>		
Guage	Length	Button Heads	Nail/ Post	
Nails	14 min.	1\"/>		

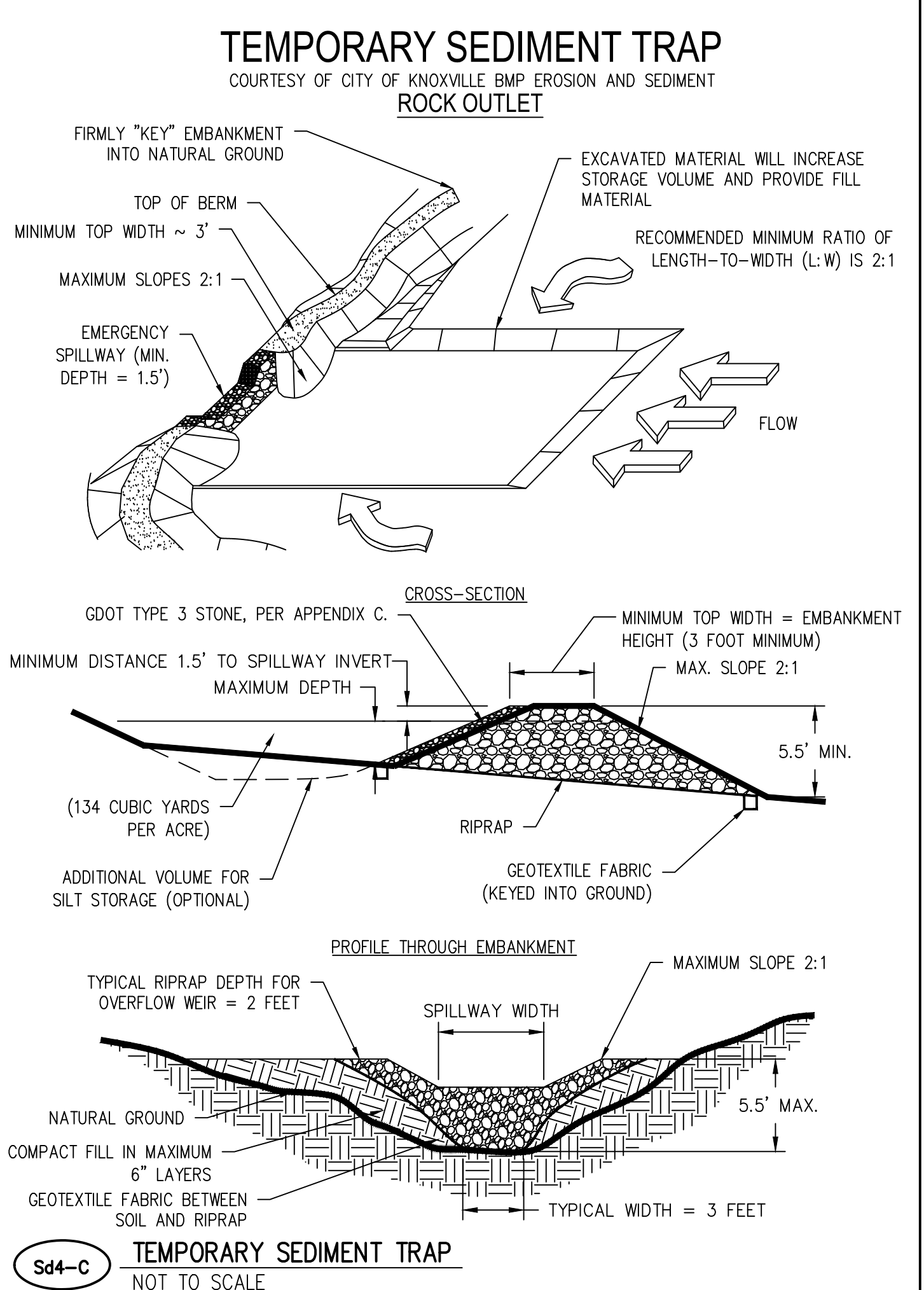
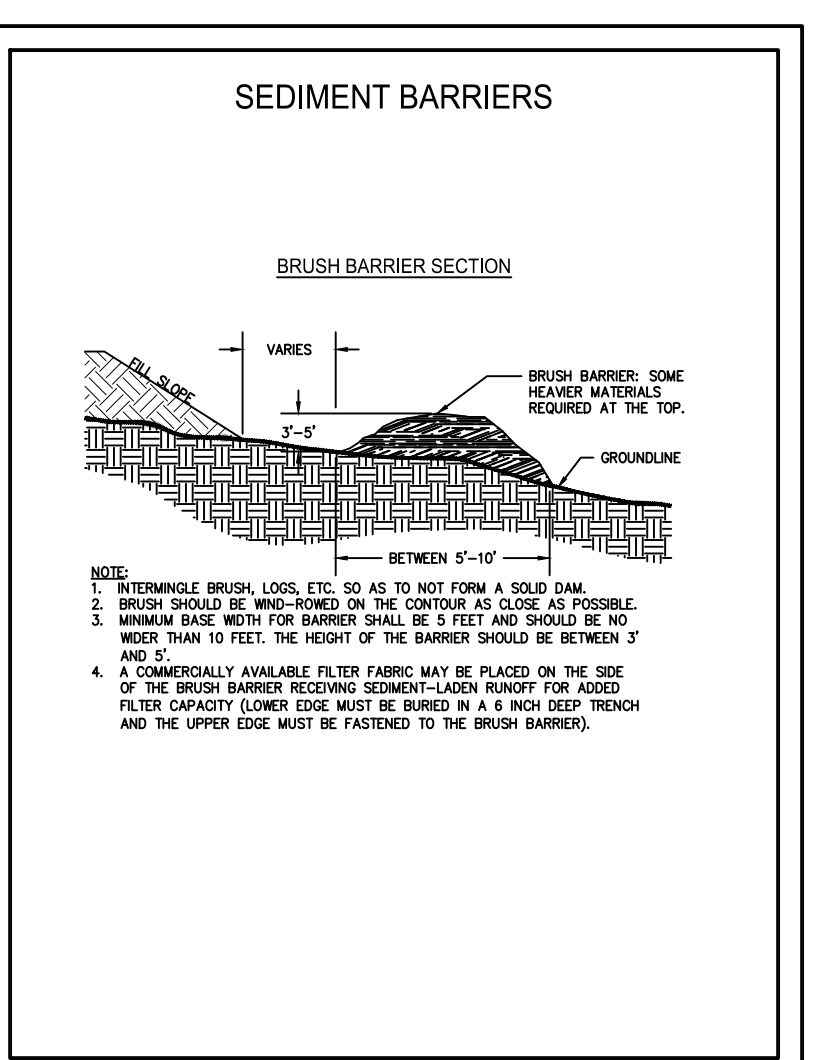
Note: Filter Fabric may also be attached to the post by wire, chors, and pockets or any other method provided minimum P-factor, as required by GSWCC, is met.

Sd1-NS Sd1-S

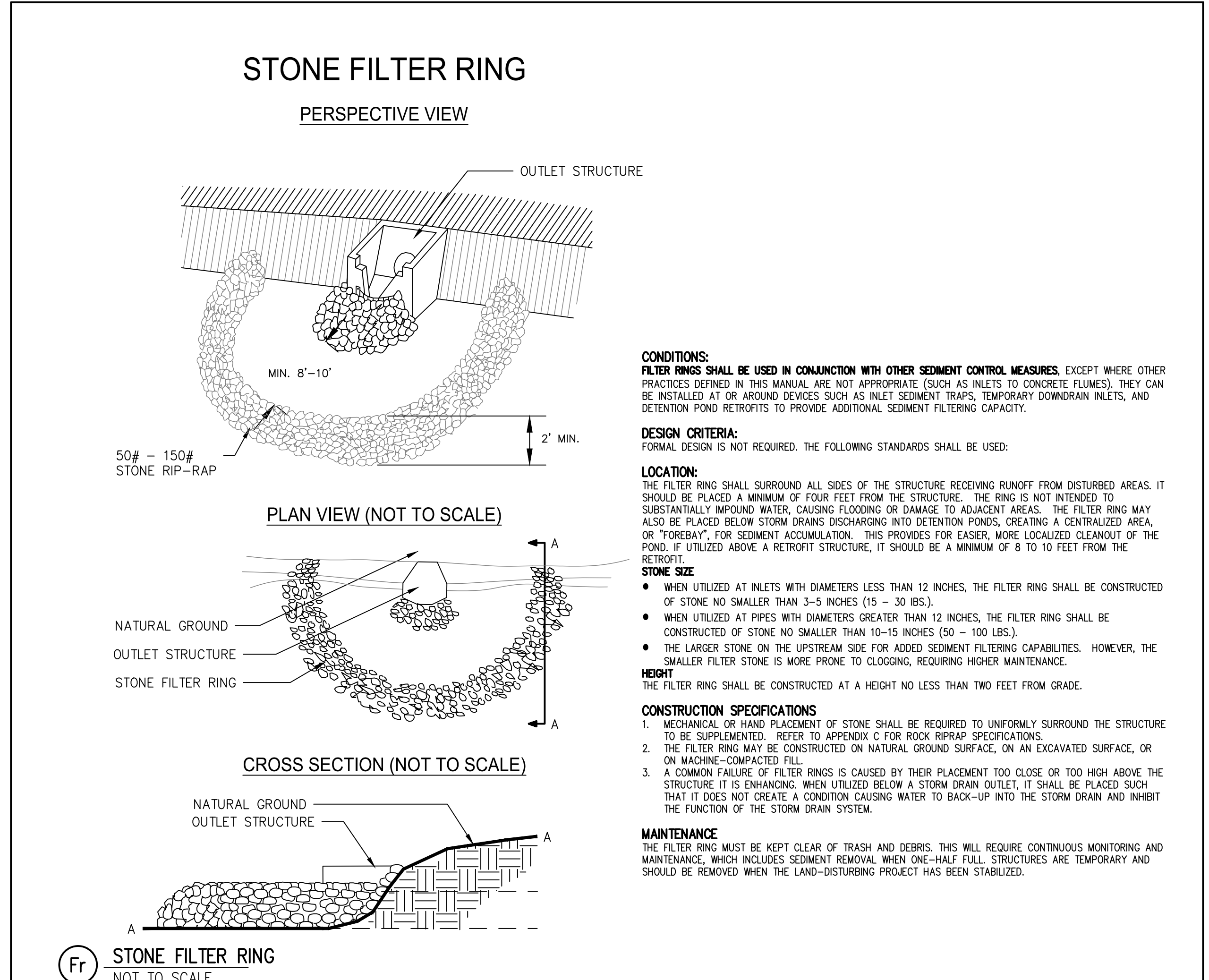
SILT FENCE SEDIMENT BARRIER
NOT TO SCALE



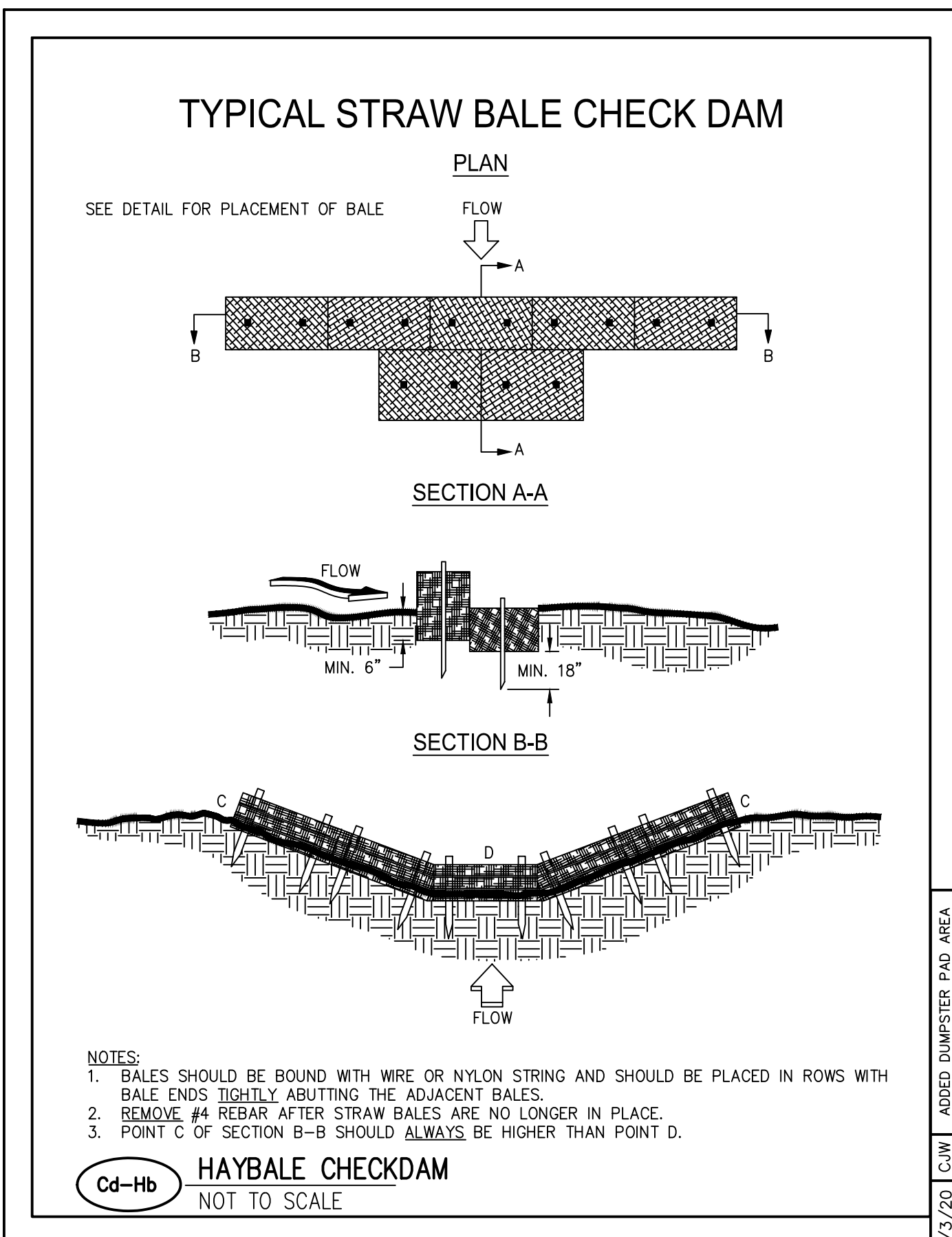
~ ADDITIONAL MEASURES ~



Sd4-C **TEMPORARY SEDIMENT TRAP**
NOT TO SCALE



Fr **STONE FILTER RING**
NOT TO SCALE



Cd-Hb **HAYBALE CHECKDAM**
NOT TO SCALE

OWNER:
GEORGIA POWER COMPANY
241 RALPH MAGILL BOULEVARD NE
BIN 10221
ATLANTA, GA 30308
CONTACT: BURNS WETHERINGTON
(404) 506-2533

OPERATOR / 24 HOUR CONTACT:
241 RALPH MAGILL BOULEVARD NE
BIN 10041
ATLANTA, GA 30308-3374
CONTACT: BRYAN HARRIS
(404) 506-4932

ENGINEER:
AEC, INC.
50 WARM SPRING CIRCLE
ROSWELL, GA 30075
CONTACT: MARK VAN DE WATER
(770) 641-1942
LEVEL II CERT. # 5960

PROFESSIONAL SEAL:
06/03/2028
No. 27118
Professional Seal
Mark Van De Water
Mark Van De Water

SILT FENCE INSTALLATION DETAIL (TYP)

AEC JOB # 18-4190.20

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT
GPC NOAHS ARK OPERATING HEADQUARTERS
CLAYTON COUNTY, GEORGIA

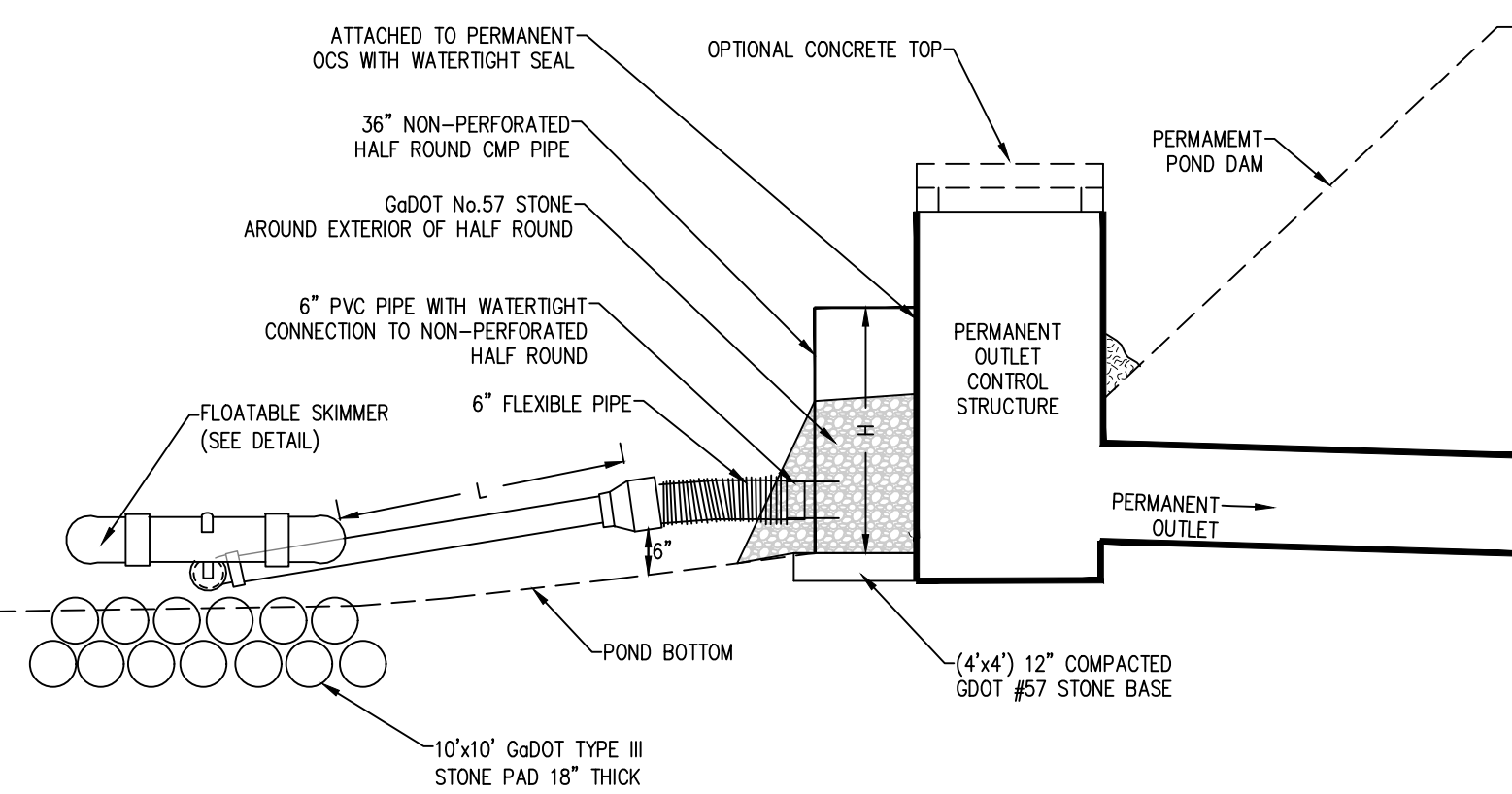
EROSION CONTROL DETAILS

APPROVALS:

DR.	MDA	TR.	CRK
			CJW/MDV
SCALE	DATE		5/17/2019
DRAWING No.	SHEET No.		28 OF 30

TEMPORARY SURFACE SKIMMER

CROSS-SECTIONAL DETAIL



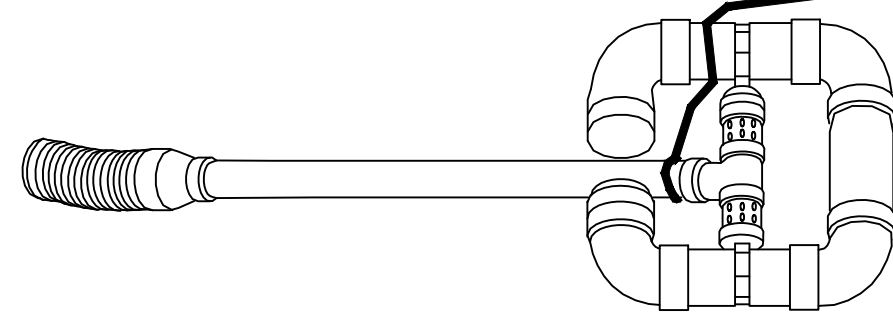
Sk TEMPORARY SURFACE SKIMMER NOT TO SCALE

When a FLOATING SURFACE SKIMMER is used, show the following information along with each sediment pond, trap or basin being used on the site:
 1. Pond, trap or basin size, length* (top and bottom) width* (top and bottom) and depth =
 Permanent Detention Pond
 Length: 215' top, 173' bottom
 Width: 137' top, 98' bottom
 Depth: 6 feet
 2. Time to Drain (hrs) = 24 hours
 3. Skimmer Dimensions (orifice and head size) = 5'-8" Skimmer size
 Marlee or other approved by engineer
 4. Manufacturer's name =
 5. Half Round Height (H) =
 6. Sediment storage required = 749.06 CY
 7. Sediment storage provided = 4768.90 CY
 8. Min. Length (L) = 1.5 x Height of dam 9.0'

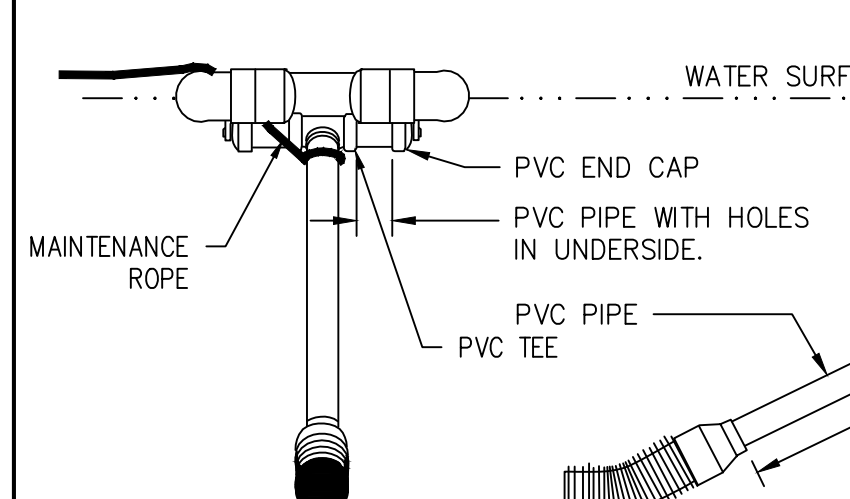
NOTE: MARLEE SKIMMER OR APPROVED EQUIVALENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED ALTERNATE FOR APPROVAL.

TEMPORARY SURFACE SKIMMER

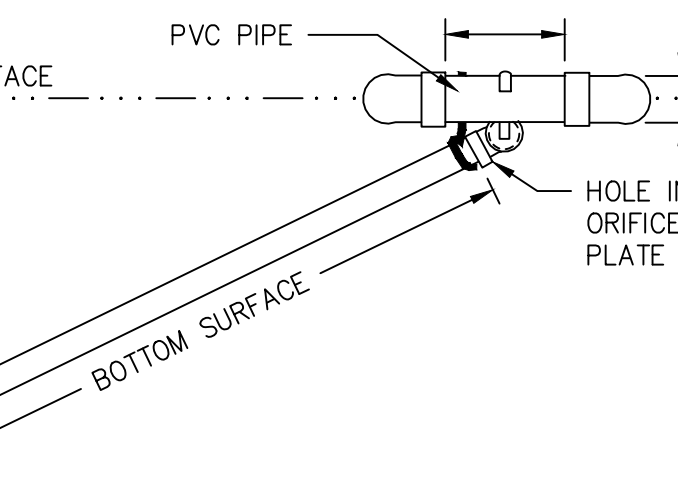
SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW



SKIMMER SIDE SECTION VIEW



Sk FLOATING SURFACE SKIMMER NOT TO SCALE

NOTE: MARLEE SKIMMER OR APPROVED EQUIVALENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED ALTERNATE FOR APPROVAL.

STORM DRAIN OUTLET PROTECTION

DESIGN CRITERIA:

STRUCTURALLY LINED APRONS AT THE OUTLETS OF PIPES AND PAVED CHANNEL SECTIONS SHALL BE DESIGNED ACCORDING TO THE FOLLOWING CRITERIA:
CAPACITY
 PEAK STORMFLOW FROM THE 25-YEAR, 24 HOUR FREQUENCY STORM OR THE STORM SPECIFIED IN THE TITLE 12-7-1 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED OR THE DESIGN DISCHARGE OF THE WATER CONVEYANCE STRUCTURE, WHICHEVER IS GREATER.

TAILWATER DEPTH

THE DEPTH OF THE TAILWATER IMMEDIATELY BELOW THE PIPE OUTLET MUST BE DETERMINED FOR THE DESIGN CAPACITY OF THE PIPE. MANNING'S EQUATION MAY BE USED TO DETERMINE TAILWATER DEPTH. IF THE TAILWATER DEPTH IS LESS THAN HALF THE DIAMETER OF THE OUTLET PIPE, IT SHALL BE CLASSIFIED AS A MINIMUM TAILWATER CONDITION. IF THE TAILWATER DEPTH IS GREATER THAN HALF THE PIPE DIAMETER, IT SHALL BE CLASSIFIED AS A MAXIMUM TAILWATER CONDITION. PIPES WHICH OUTLET ONTO FLAT AREAS WITH NO DEFINED CHANNEL MAY BE ASSUMED TO HAVE A MINIMUM TAILWATER CONDITION.

APRON WIDTH

IF THE PIPE DISCHARGES DIRECTLY INTO A WELL-DEFINED CHANNEL, THE APRON SHALL EXTEND ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION ONE FOOT ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS). IF THE PIPE DISCHARGES ONTO A FLAT AREA WITH NO DEFINED CHANNEL, THE WIDTH OF THE APRON SHALL BE DETERMINED AS FOLLOWS:
 A. THE UPSTREAM END OF THE APRON, ADJACENT TO THE PIPE, SHALL HAVE A WIDTH THREE TIMES THE DIAMETER OF THE OUTLET PIPE.
 B. FOR THE MINIMUM TAILWATER CONDITION, THE DOWNSTREAM END OF THE APRON SHALL HAVE A WIDTH EQUAL TO THE PIPE DIAMETER PLUS THE LENGTH OF THE APRON. REFER TO FIGURE 6-24.1.
 C. FOR A MAXIMUM TAILWATER CONDITION, THE DOWN STREAM END SHALL HAVE A WIDTH EQUAL TO THE PIPE DIAMETER PLUS 0.4 TIMES THE LENGTH OF THE APRON. REFER TO FIGURE 6-24.2.

BOTTOM GRADE

THE APRON SHALL BE CONSTRUCTED WITH NO SLOPE ALONG ITS LENGTH (0.0% GRADE). THE INVERT ELEVATION OF THE DOWNSTREAM END OF THE APRON SHALL BE EQUAL TO THE ELEVATION OF THE INVERT OF THE RECEIVING CHANNEL. THERE SHALL BE NO OVERFALL AT THE END OF THE APRON.

SIDE SLOPE

IF THE PIPE DISCHARGES INTO A WELL-DEFINED CHANNEL, THE SIDE SLOPES OF THE CHANNEL SHALL NOT BE STEEPER THAN 2:1.

ALIGNMENT

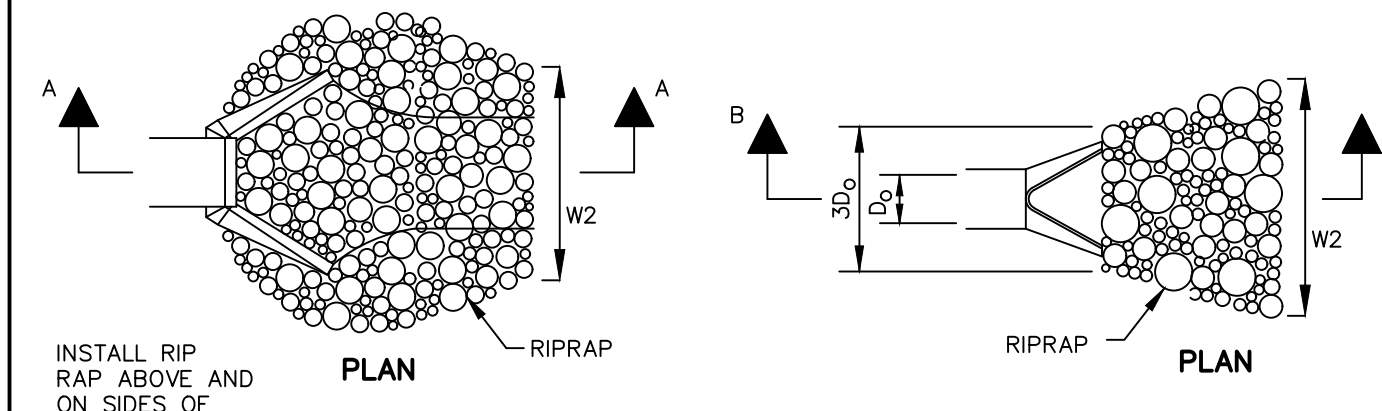
THE APRON SHALL BE LOCATED SO THAT THERE ARE NO BENDS IN THE HORIZONTAL ALIGNMENT.

GEOTEXTILE

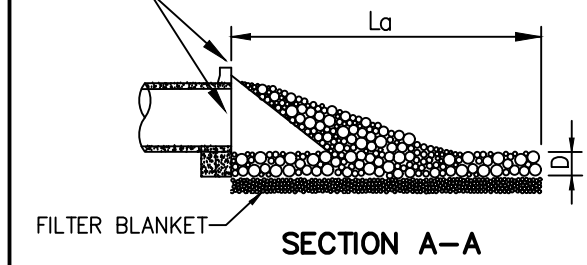
GEOTEXTILES SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE, THE SOIL BASE, AND THE ABUTMENTS. THE GEOTEXTILES WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SPECIFIED ON ACCORDANCE WITH AASHTO M288-96 SECTION 7.5, PERMANENT EROSION CONTROL RECOMMENDATIONS. THE GEOTEXTILE SHOULD BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

MATERIALS

THE APRON MAY BE LINED WITH RIPRAP, GROUTED RIPRAP, OR CONCRETE. THE MEDIAN SIZED STONE FOR RIPRAP, D50, SHALL BE DETERMINED FROM THE CURVES, FIGURE 6-24.1 AND 6-24.2, ACCORDING TO THE TAILWATER CONDITION. THE GRADATION, QUALITY AND PLACEMENT OF RIPRAP SHALL CONFORM TO APPENDIX C.



INSTALL RIP RAP ABOVE AND ON SIDES OF HEADWALL



PIPE OUTLET TO WELL-DEFINED CHANNEL: DESIGN SPECIFICATIONS TABLE

HW.I.D.	D ₀ (IN.)	Q ₁₅ (CFS)	V (FPS)	Min Tailwater?	L ₁ (FT.)	W ₁ (FT.)	W ₂ (FT.)	d ₅₀ (IN.)	D (IN.)
A1	42"	44.40	8.71	YES	26	12.0	30.0	12	27.0
B1	18"	11.11	6.94	YES	12	4.5	12.0	6	13.5
C1	42"	85.90	10.31	YES	32	12.0	30.0	12	27.0
D1	24"	9.72	5.41	YES	12	6.0	13.5	9	13.5
E1	18"	1.18	3.05	YES	12	4.5	13.5	6	13.5

PIPE OUTLET TO FLAT AREA - NO WELL-DEFINED CHANNEL: DESIGN SPECIFICATIONS TABLE

HW.I.D.	D ₀ (IN.)	Q ₁₅ (CFS)	V (FPS)	Min Tailwater?	L ₁ (FT.)	W ₁ (FT.)	W ₂ (FT.)	d ₅₀ (IN.)	D (IN.)
A1	42"	44.40	8.71	YES	26	12.0	30.0	12	27.0
B1	18"	11.11	6.94	YES	12	4.5	12.0	6	13.5
C1	42"	85.90	10.31	YES	32	12.0	30.0	12	27.0
D1	24"	9.72	5.41	YES	12	6.0	13.5	9	13.5
E1	18"	1.18	3.05	YES	12	4.5	13.5	6	13.5

CONSTRUCTION SPECIFICATIONS:

- ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
- THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
- GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
- RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
- THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
- CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
- ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
- IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.
- STONE QUALITY - SELECT STONE FOR RIPRAP FROM FIELD STONE OR QUARRY STONE. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHOULD BE AT LEAST 2.5.
- FILTER - INSTALL A FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIPRAP. THE FILTER SHOULD CONSIST OF A GRADED GRAVEL LAYER OR A SYNTHETIC FILTER CLOTH. SEE APPENDIX C, P. C-1.

MAINTENANCE:

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

NOTES:

- LENGTH (L₀) IS THE RIPRAP LENGTH (AS SHOWN IN THE CHART).
- DEPTH (D) IS THE RIPRAP DEPTH (1.5 TIMES THE MAXIMUM STONE DIAMETER, OR AS SHOWN ON DRAWINGS BUT NOT LESS THAN 12").
- INSTALL A 6" MINIMUM DEEP FILTER STONE BLANKET (#57 STONE) OR FILTER FABRIC (AASHTO M288-96 SECTION 7.5) BETWEEN RIPRAP AND SOIL FOUNDATION.
- 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.
- A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
- FOR VELOCITIES UP TO 6.5 FPS, USE GDOT TYPE 3 WITH #57 FILTER BEDDING STONE.
- FOR VELOCITIES OVER 6.5 FPS, CONSULT TABLE C-1.

TABLE C-1 GRADED RIP-RAP STONE

FLOW VELOCITY (FT./SEC.)	N.S.A. NO. ¹	SIZE INCHES (SQ. OPENING)			FILTER STONE N.S.A. NO. ¹
		MAX.	AVG. ²	MIN.	
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

TABLE C-2 FILTER BEDDING STONE

N.S.A. NO. ¹	SIZE INCHES (SQ. OPENING)	MAX.	AVG. ²	MIN. ³
FS-1	3/8	#30 MESH	#100 MESH	
FS-2	2	#4	#100 MESH	
FS-3	6 1/2	2 1/2	#16	

TABLE C-4 FILTER BEDDING STONE

G.D.O.T. NO. ⁴	NOMINAL SIZE (INCHES)
3	2" - 1"
4	1 1/2" - 3/4"
5	1" - 1/2"
6	3/4" - 3/8"
57	1" - No. 4

TABLE C-3 GRADED RIP-RAP STONE

G.D.O.T. NO.	SIZE INCHES (SQ. OPENING)			COMMON USES
	MAX.	AVG. ²	MIN. ³	
TYPE 3	12	9	5	CREEK BANKS, PIPE OUTLETS
TYPE 1	24	12	7	LAKES, SHORELINES, RIVERS

- NATIONAL STONE ASSOCIATION
- AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN LISTED SIZE.
- 85-100% OF THE INDIVIDUAL STONE PARTICLES MAYBE LESS THAN LISTED SIZE.
- GEORGIA DEPARTMENT OF TRANSPORTATION

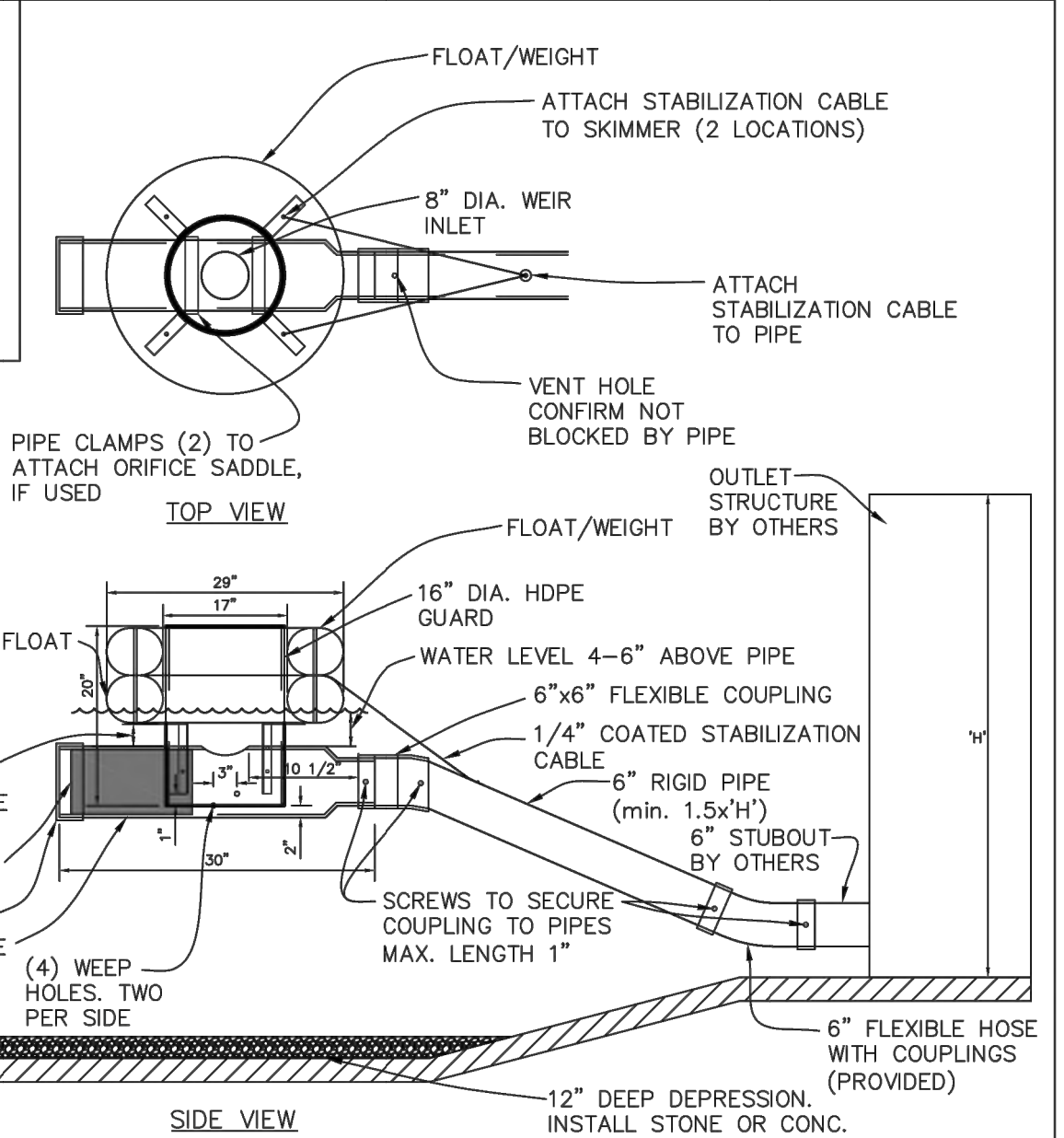
St STORM DRAIN OUTLET PROTECTION NOT TO SCALE

STANDARD NOTES:

- Rigid outlet pipe should be 1.5 to 2 times the height of outlet structure (H), (min. 8"). If over 14' long weight may need to be added to skimmer.
- Inlet Orifice size can be reduced with 5" and 6" saddles provided. User provides rigid outlet pipe. All other materials and parts included.
- Minimal assembly required. User provides rigid outlet pipe. All other materials and parts included.
- Total weight of skimmer ±116.0 lbs.

Water Depth ft.	8" Skimmer with No Saddle		with 6" Orifice Saddle		with 5" Orifice Saddle	
	cfs	cd	cfs	cd	cfs	cd
0.1	0.4007	34.617	0.3062	26.453	0.1665	14.382
0.3	0.4695	40.566	0.3732	32.248	0.2257	19.503
0.5	0.5500	47.516	0.4550	39.314	0.3064	26.473
1.0	0.6440	55.641	0.5349	47.939	0.4156	35.906
1.5	0.7065	61.053	0.5828	53.812	0.4567	42.914
2.0	0.7545	65.100	0.6263	58.432	0.5638	48.710
2.5	0.7940	68.598	0.6709	62.283	0.6219	53.735
3.0	0.8276	71.505	0.7094	65.614	0.6738	58.220
3.5	0.8572	74.006	0.7435	68.559	0.7213	62.321
4.0	0.8838	76.357	0.7743	71.216	0.7648	66.076
Avg (0.5'-4.0')	0.7522	64.900	0.6759	58.396	0.5725	49.294

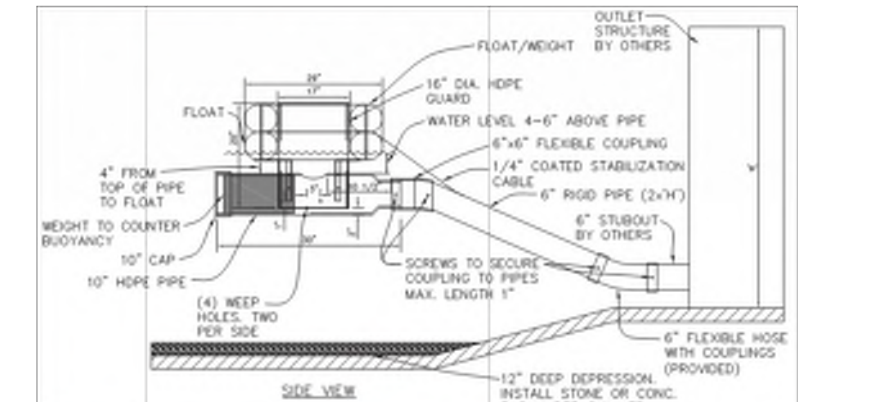
FLOW RATES BASED ON THIRD PARTY TESTING. FOR DESIGN PURPOSES ASSUME FLOW RATES REMAIN CONSTANT FOR DEPTHS GREATER THAN 4'.
 4" FROM TOP OF PIPE TO FLOAT
 WEIGHT TO COUNTER BUOYANCY
 10" CAP
 10" HDPE PIPE
 (4) WEEP HOLES, TWO PER SIDE
 6" FLEXIBLE HOSE WITH COUPLINGS (PROVIDED)
 12" DEEP DEPRESSION, INSTALL STONE OR CONC. PAD UNDER SKIMMER.



MODEL 3
 5" - 8" Marlee Float Skimmer Detail
 DEVELOPED BY RYMAR WATERWORKS INNOVATIONS, 08/10/18. VALID UNTIL 10/31/18. CHECK WEBSITE FOR UPDATES.
 RYMAR WATERWORKS INNOVATIONS
 WWW.RYMARWATERWORKS.COM
 PHONE # 1-855-697-9333
 SCALE N.T.S.
 DATE 08/19/18
 PROPERTY LOCATION
 County, State



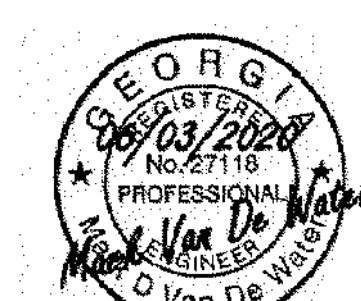
Model #3 | 5", 6" & 8" Marlee Float™ Skimmer Cut Sheet/Installation Instructions



- Model 3: 5" - 8" Marlee Float Skimmer is to be attached to a 6" rigid pipe (Schedule 40 PVC for construction/temporary applications or HDPE for permanent applications). Rigid pipe should be 1.5 times the height of the outlet structure - minimum of 8". For ponds requiring a pipe length greater than 14' additional weight may be required to counteract buoyancy.
- 6" Rigid pipe to be attached to 6" pipe stubbed out of outlet structure or through dam. Flexible pipe with couplings to attach 6" rigid pipe to 6" PVC or HDPE stub out is provided. If stubout is material other than Schedule 40 PVC or HDPE an alternate coupling may be required.
- When attaching rigid pipe to skimmer coupling make sure to leave at least 1" space in coupling between pipes to allow for sufficient flexibility.
- Basin should have a 12" depression (skimmer pit) to effectively drain pond. It is preferable to line bottom of skimmer pit with stone, riprap or concrete. Water may remain in bottom of skimmer pit. It is recommended to slope basin at minimum 1% grade to skimmer pit.
- Skimmer is shipped fully assembled. Top weight can be removed for ease of installation by removing wing nuts. Take care to replace rubber stoppers, washers and tighten wing nuts securely once installed. User attaches flexible couplings to rigid pipe and stubout from outlet structure. Securely tighten pipe clamps and install two screws (provided) through each connection to minimize twisting.
- During installation take care to position skimmer in upright position with floats level. Also verify that vent hole in flexible coupling is rotated to top of pipe.
- 5" and 6" Orifice saddle is provided to convert standard 8" orifice. Center hole in saddle over 8" hole and secure using two pipe clamps provided.
- Install stabilization kit per separate instructions included with kit.
- Add maintenance rope. Tie to skimmer and affix to outlet structure or post on bank. Insure sufficient rope so skimmer flotation is not restricted.
- Flow rates are provided with details. Design engineer to select skimmer size as required to meet local requirements. For technical support and/or assistance with installation, visit our website at www.rymarwaterworks.com or call 855.697.9333.

803 Roper Creek Drive Greenville, SC 29615
 855.697.9333 www.rymarwaterworks.com info@rymarwaterworks.com

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GEORGIA POWER COMPANY
 241 RALPH MCGILL BOULEVARD NE
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 ATLANTA, GA 30308
 CONTACT: BURNS WETHERINGTON
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 OPERATOR / 24 HOUR CONTACT
 241 RALPH MCGILL BOULEVARD NE
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 CONTACT: MARK VAN DE WATER
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 LEVEL II CERT. # 6960
 ENGINEER:
AES, INC.
 50 WARM SPRING CIRCLE
 ROSWELL, GA 30075
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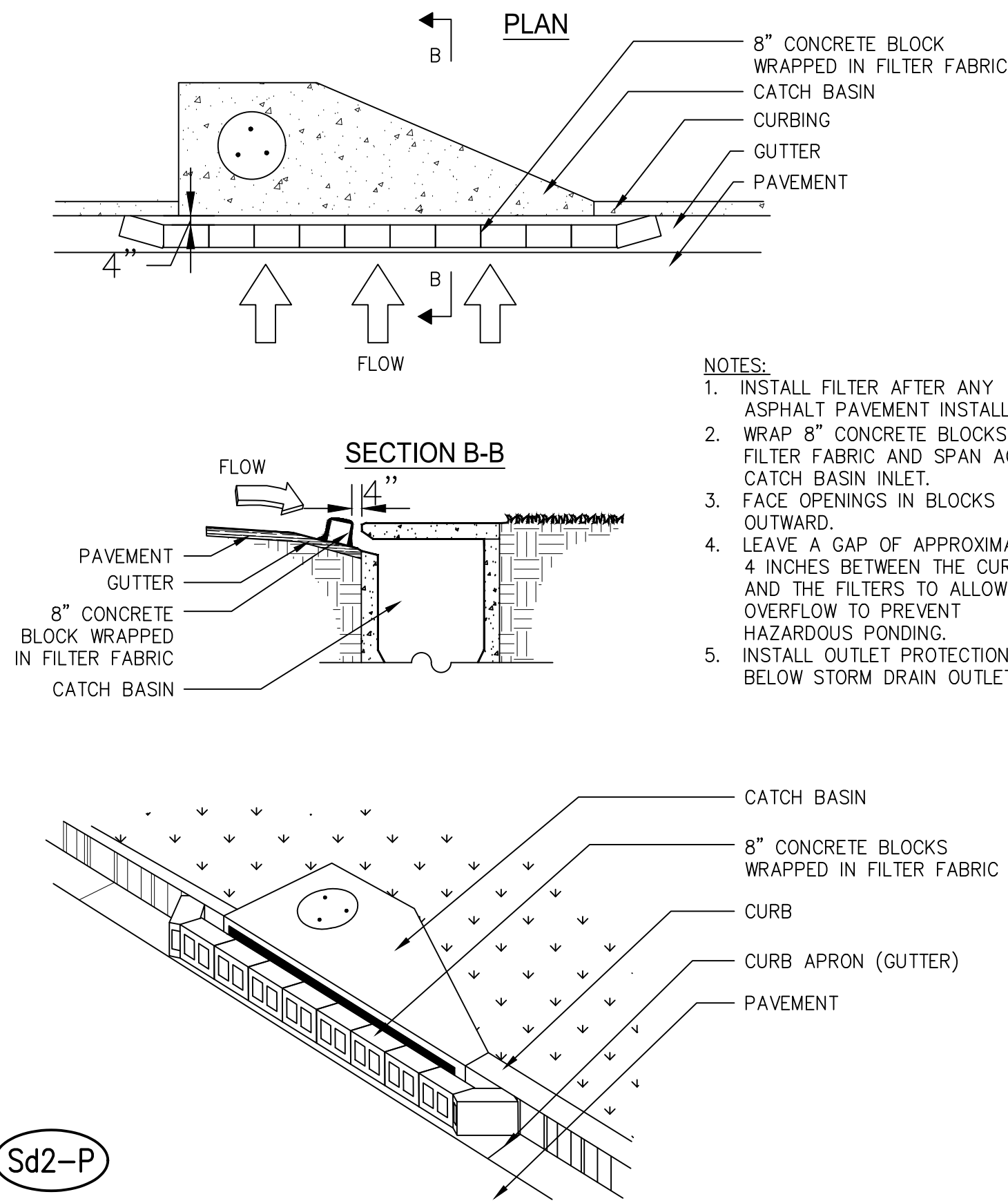


AEC JOB # 18-4190-20

REVISIONS NO. DATE BY 4.08/3/20 3.04/7/19/20 2.01/3/19/20 1.08/7/19/19	GEORGIA POWER CO., ATLANTA, GA. LAND DEPARTMENT GPC NOAHS ARK OPERATING HEADQUARTERS EROSION CONTROL DETAILS CLAYTON COUNTY, GEORGIA	
	DR. MDA TR. CJK/MDV	DATE 5/17/2019 SHEET No. 29 OF 30
	SCALE	DRAWING No.
	APPROVALS	

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CURB INLET FILTER "PIGS IN BLANKET"



Sd2-P
CURB INLET PROTECTION
NOT TO SCALE

DESIGN CRITERIA:

THROUGH TESTING THERE ARE TWO DIFFERENT CATEGORIES (HIGH RETENTION AND HIGH FLOW) SUPPORTED. IN AREAS WHERE BMPs ARE BEING USED ON PAVED SURFACES, OR SAFETY IS A CONCERN, THE POTENTIALLY NEGATIVE EFFECTS OF PONDING SHOULD BE TAKEN INTO ACCOUNT. IN SUCH CASES, A HIGH FLOW BMP IS PREFERRED.

ON UNPAVED AREAS WHERE PONDING WILL NOT CAUSE A SAFETY HAZARD, HIGH RETENTION SHALL BE TAKEN INTO ACCOUNT. IF HIGH RETENTION IS NOT USED IN THIS SITUATION A RATIONALE SHALL BE GIVEN ON THE PLAN AND AN UNPAVED APPLICATION SHOULD APPLY.

ON UNPAVED AREAS INLET SEDIMENT TRAPS SHALL MEET 90% SOIL RETENTION EFFICIENCY WITH A MINIMUM SEEPAGE EFFICIENCY OF 65%.

ON PAVED AREAS OR AREAS WHERE A SAFETY HAZARD IS A SEDIMENT TRAPS SHALL MEET 75% SOIL RETENTION EFFICIENCY WITH A MINIMUM SEEPAGE OF 85%.

SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD. THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

IF RUNOFF MAY BYPASS THE PROTECTED INLET, A TEMPORARY DIKE SHOULD BE CONSTRUCTED ON THE DOWN SLOPE SIDE OF THE STRUCTURE. ALSO, A STONE FILTER RING MAY BE USED ON THE UP SLOPE SIDE OF THE INLET TO SLOW RUNOFF AND FILTER LARGER SOIL PARTICLES. REFER TO FR-STONE FILTER RING.

CONSTRUCTION SPECIFICATIONS:

AN EXCAVATION MAY BE CREATED AROUND THE INLET SEDIMENT TRAP TO PROVIDE ADDITIONAL SEDIMENT STORAGE. THE TRAP SHALL BE SIZED TO PROVIDE A MINIMUM STORAGE CAPACITY CALCULATED AT THE RATE OF 67 CUBIC YARDS PER ACRE OF DRAINAGE AREA. A MINIMUM DEPTH OF 1.5 FEET FOR SEDIMENT STORAGE SHOULD BE PROVIDED. SIDE SLOPES SHALL NOT BE STEEPER THAN 2:1.

SEDIMENT TRAPS MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL, PROVIDED THEY HAVE A NON-ERODIBLE OUTLET.

FILTER FABRIC WITH SUPPORTING FRAME (Sd2-F)

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) AND SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS. SILT FENCE MATERIAL WITH WIRE REINFORCEMENT AND SUPPORTED BY STEEL POSTS SHOULD BE USED. THE STAKES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVEN INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP. THE FABRIC SHALL BE 36 INCHES TALL AND ENTRENCHED 12 INCHES AND BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. FABRIC AND WIRE SHALL BE SECURELY FASTENED TO THE POSTS, AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18 INCHES OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

MAINTENANCE:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN, AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.

SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION. SOD INLET PROTECTION SHALL BE MAINTAINED AS SPECIFIED IN D54 - DISTURBED AREA STABILIZATION (WITH SODDING).

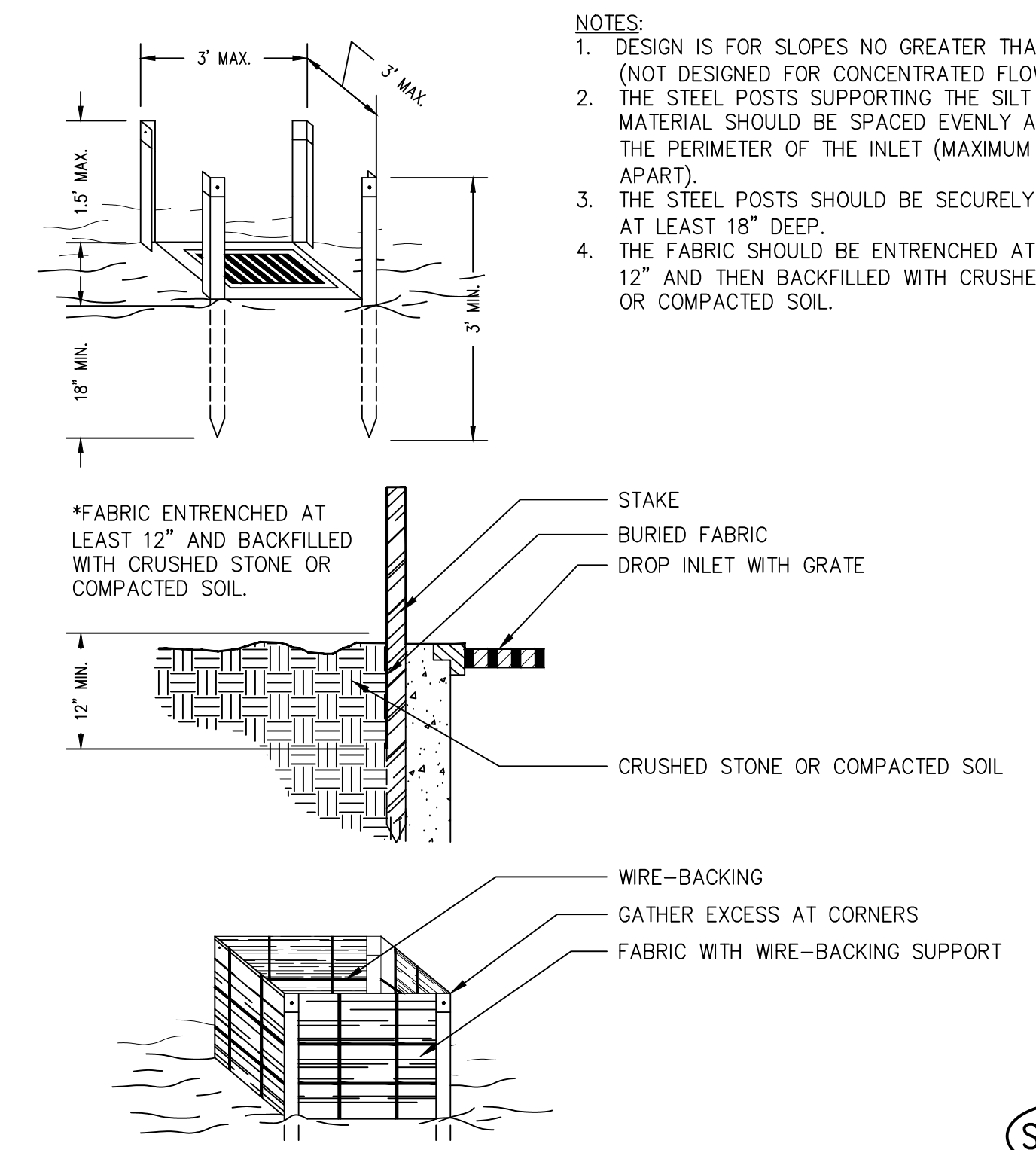
SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP, DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

Sd2 FILTER FABRIC WITH SUPPORTING FRAME
NOT TO SCALE

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



- NOTES:
- DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
 - THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
 - THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
 - THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Sd2-F

CONDITIONS

- THIS STANDARD APPLIES UNDER THE FOLLOWING CONDITIONS:
- SHALL NOT BE USED IN DETENTION BASINS ON LIVE STREAMS** OR IN BASINS WITH A TOTAL CONTRIBUTING DRAINAGE AREA OF 100 ACRES OR MORE.
 - THE POND MUST BE CAPABLE OF STORING THE REQUIRED VOLUME OF SEDIMENT IN ADDITION TO THE REQUIRED STORMWATER VOLUME. THE REQUIRED SEDIMENT STORAGE VOLUME SHALL BE ACHIEVED BY EITHER EXCAVATING THE BASIN OR RAISING THE OUTLET STRUCTURE'S INVERT TO ACHIEVE 67 CUBIC YARDS PER ACRE OF SEDIMENT STORAGE. REMOVE SEDIMENT WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY, NOT TOTAL POND CAPACITY, IS LOST TO SEDIMENT ACCUMULATION. THIS VOLUME SHALL BE MARKED ON THE RISER OR BY SETTING A MARKED POST NEAR THE RISER.
 - FOR EFFECTIVE TRAPPING EFFICIENCY, THE SEDIMENT DELIVERY INLETS SHOULD BE AT THE UPPER END OF THE BASIN.
 - FOR EFFECTIVE TRAPPING EFFICIENCY, THE LENGTH-WIDTH RATIO OF THE BASIN SHALL BE AT LEAST 2:1. IF THE LENGTH-WIDTH RATIO IS NOT AT LEAST 2:1, THE FLOW LENGTH SHALL BE INCREASED WITH THE USE OF BAFFLES INSTALLED WITHIN THE BASIN.

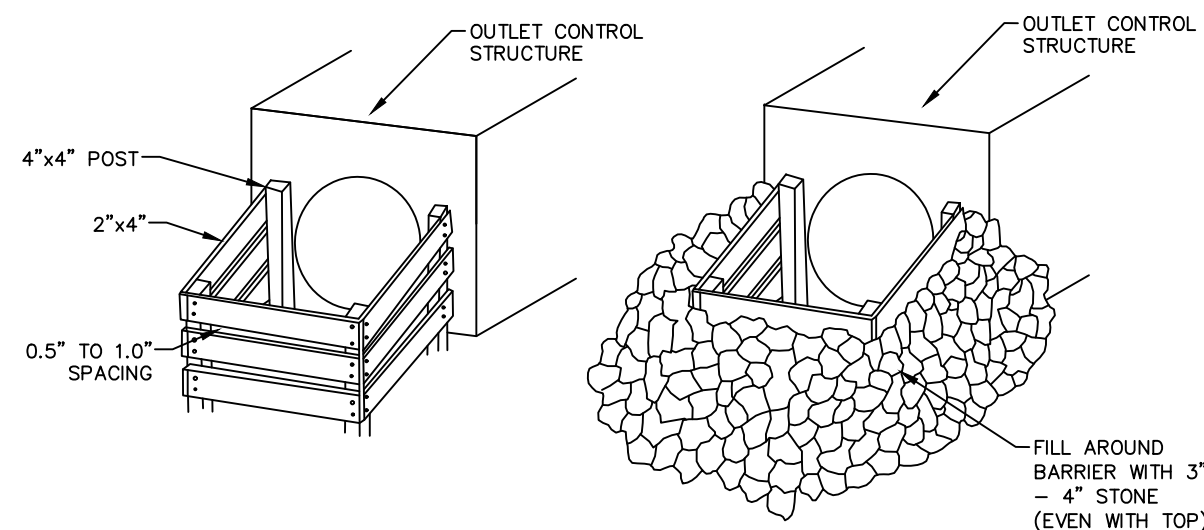
DESIGN CRITERIA

- THE HEIGHT OF THE RETROFIT SHOULD BE APPROXIMATELY ONE-HALF THE HEIGHT OF THE STORMWATER MANAGEMENT OUTLET STRUCTURE.
- THE POND MUST BE CAPABLE OF STORING THE REQUIRED VOLUME OF SEDIMENT IN ADDITION TO THE REQUIRED STORMWATER VOLUME. THE REQUIRED SEDIMENT STORAGE VOLUME SHALL BE ACHIEVED BY EITHER EXCAVATING THE BASIN OR RAISING THE OUTLET STRUCTURE'S INVERT TO ACHIEVE 67 CUBIC YARDS PER ACRE OF SEDIMENT STORAGE. REMOVE SEDIMENT WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY, NOT TOTAL POND CAPACITY, IS LOST TO SEDIMENT ACCUMULATION. THIS VOLUME SHALL BE MARKED ON THE RISER OR BY SETTING A MARKED POST NEAR THE RISER.
- FOR EFFECTIVE TRAPPING EFFICIENCY, THE SEDIMENT DELIVERY INLETS SHOULD BE AT THE UPPER END OF THE BASIN.
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CONSTRUCTION SPECIFICATIONS

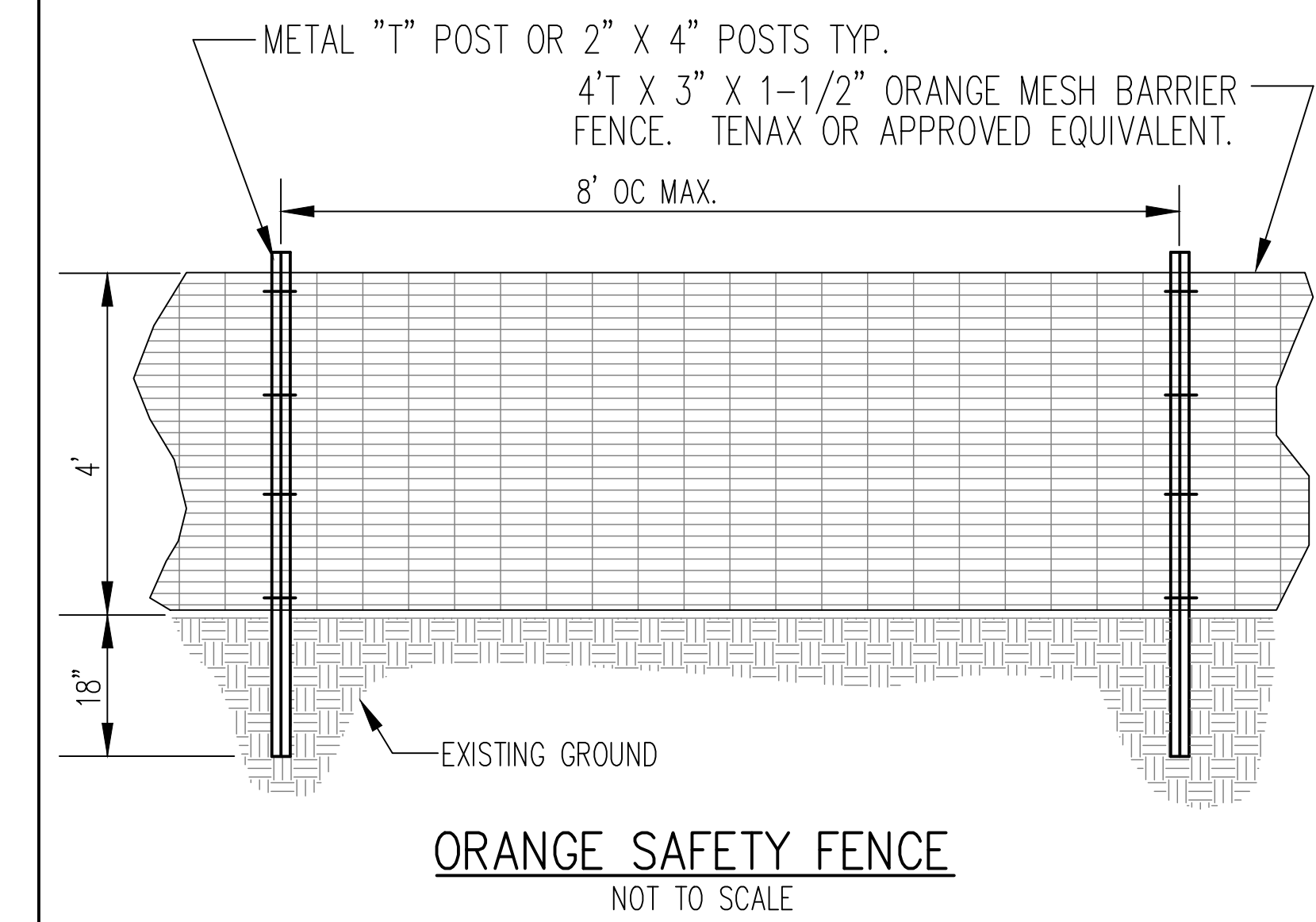
- CAN BE USED IN DETENTION PONDS WITH DRAINAGE AREAS UP TO 100 ACRES.
- CAN BE USED WITH OPEN END PIPE OUTLETS, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS.
- SHOULD BE INSTALLED WITH MINIMUM SIZE 4" X 4" INCH POSTS.
- BOARDS SHOULD HAVE 0.5"-1.0" INCH SPACE BETWEEN THEM.
- MINIMUM SIZE 3"-4" INCH STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.

ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION. REFER TO Ds3 AND Da4 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) AND DISTURBED AREA STABILIZATION (WITH SODDING) AND Mb - MATTING AND BLANKETS.



MAINTENANCE
RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST. STRUCTURES ARE TEMPORARY AND SHALL BE REMOVED WHEN DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

Rt SLOTTED BOARD DAM WITH STONE FILTER
NOT TO SCALE

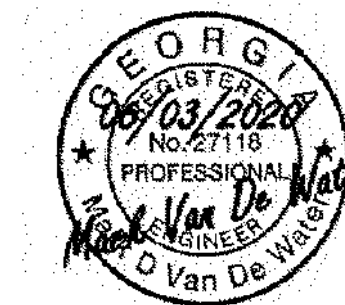


ORANGE SAFETY FENCE
NOT TO SCALE

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AEC JOB # 18-4190-20

4.08/3/20	ADD DUMPSTER PAD AREA	DR.	MDA	TR.	CRK	CJW/MDV
3.04/7/20	MASTER SITE IMPROVEMENT SET	SCALE		DATE		5/17/2019
2.01/31/20	REV. SEWER TIE IN LOCATION	DRAWING No.		SHEET No.		30 OF 30
1.08/7/19	REV. SEWER TIE IN LOCATION					
NO.	DATE	BY				

GEORGIA POWER CO., ATLANTA, GA.
LAND DEPARTMENT

GPC NOAHS ARK OPERATING HEADQUARTERS

EROSION CONTROL DETAILS

CLAYTON COUNTY, GEORGIA