

INACTIVE CCR LANDFILL NO. 3

GEORGIA POWER COMPANY

PLANT McINTOSH

EFFINGHAM, GEORGIA

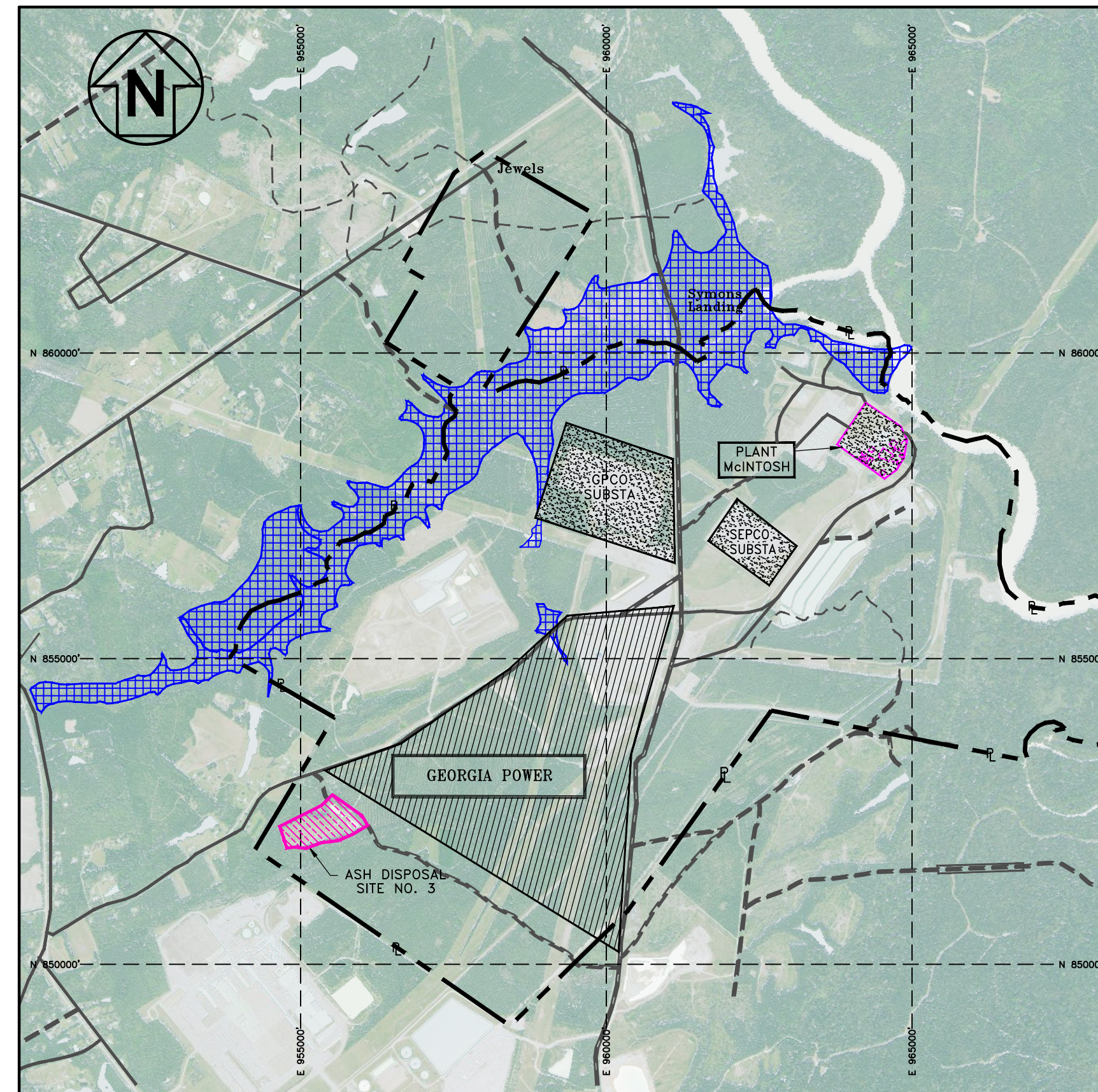
NOVEMBER 2018

OWNER/OPERATOR

GEORGIA POWER
608 EAST BAY STREET
SAVANNAH, GEORGIA 31402

RESPONSIBLE OFFICIAL

GENERAL MANAGER-ENVIRONMENTAL AFFAIRS
GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308
(404) 506-6505



PROJECT SITE LOCATION
NOT TO SCALE

REVISION HISTORY

DATE	SHEETS	REQUESTED BY

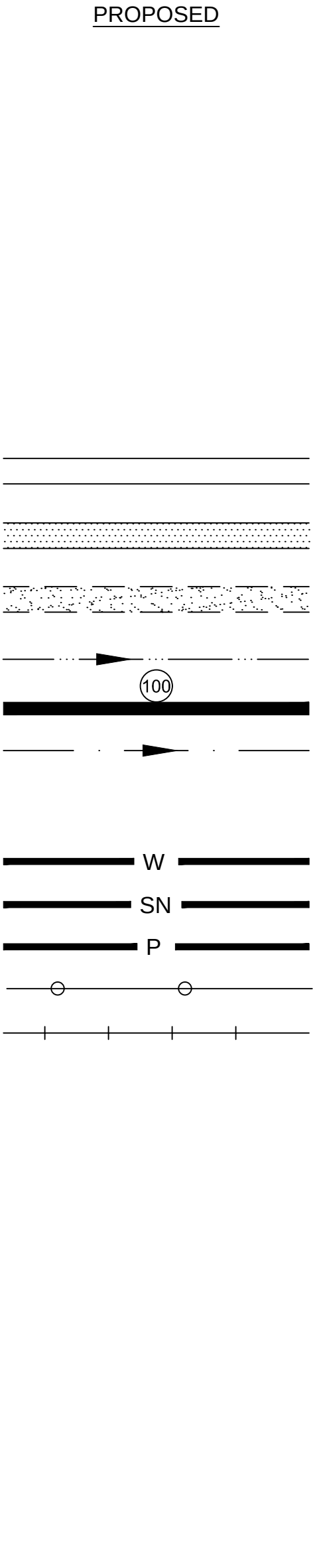
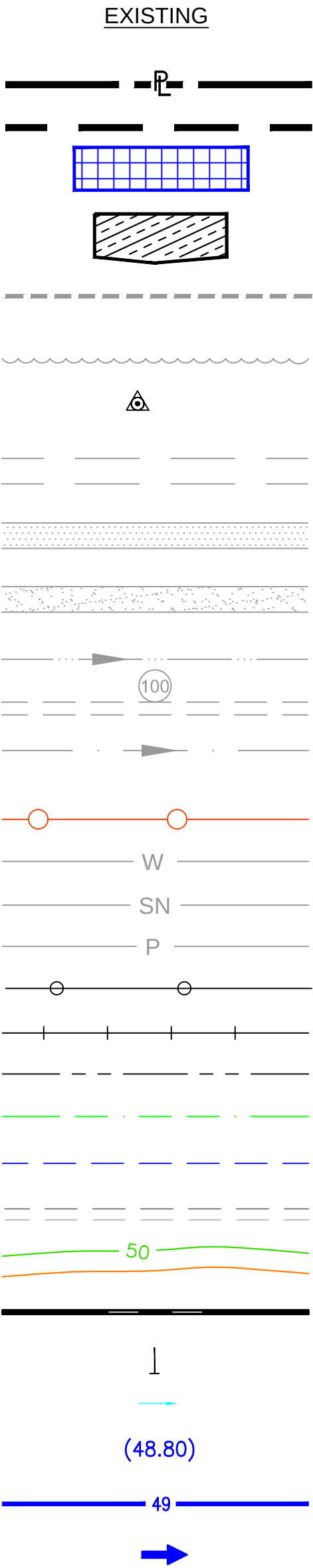


1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050

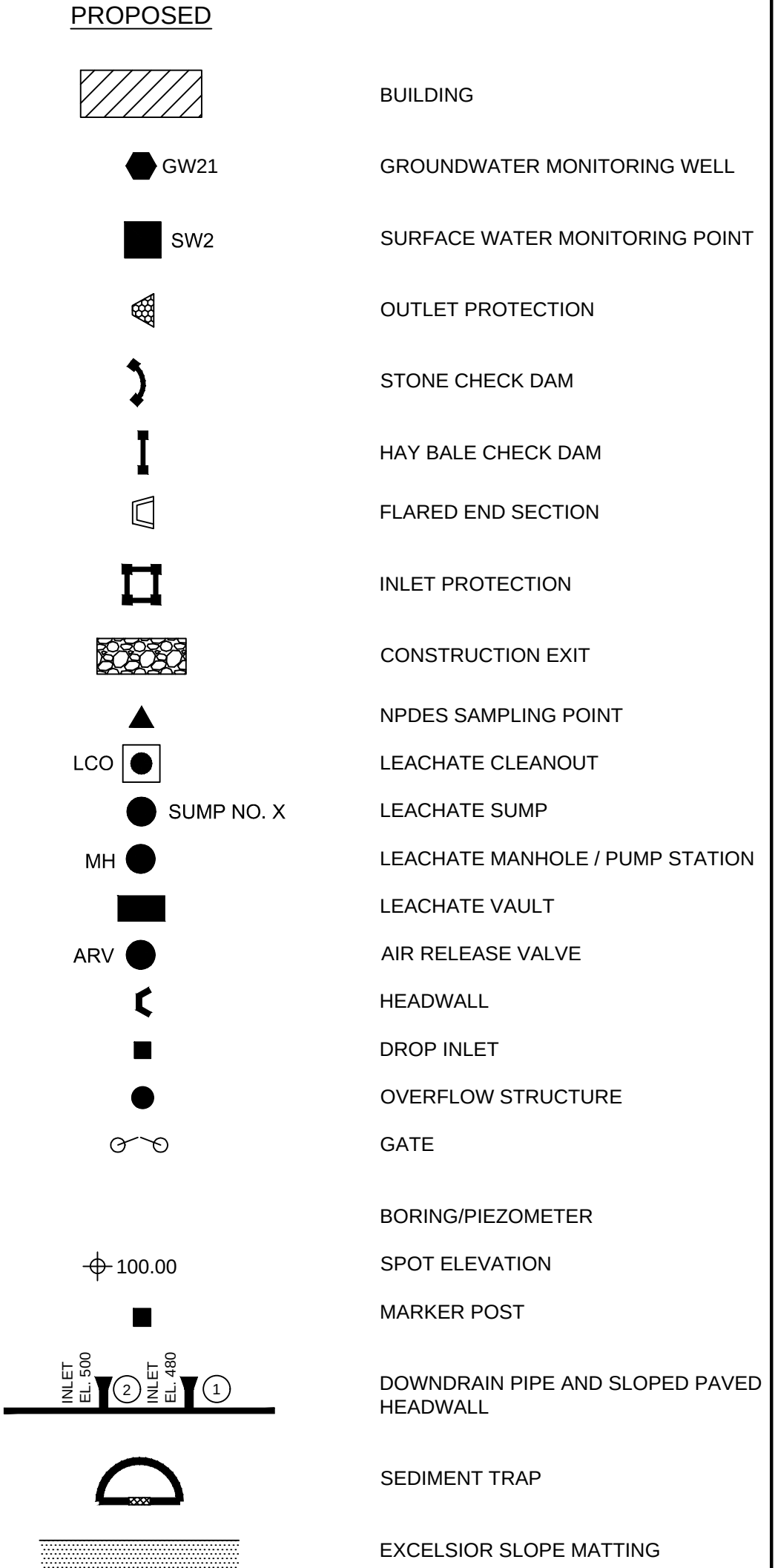
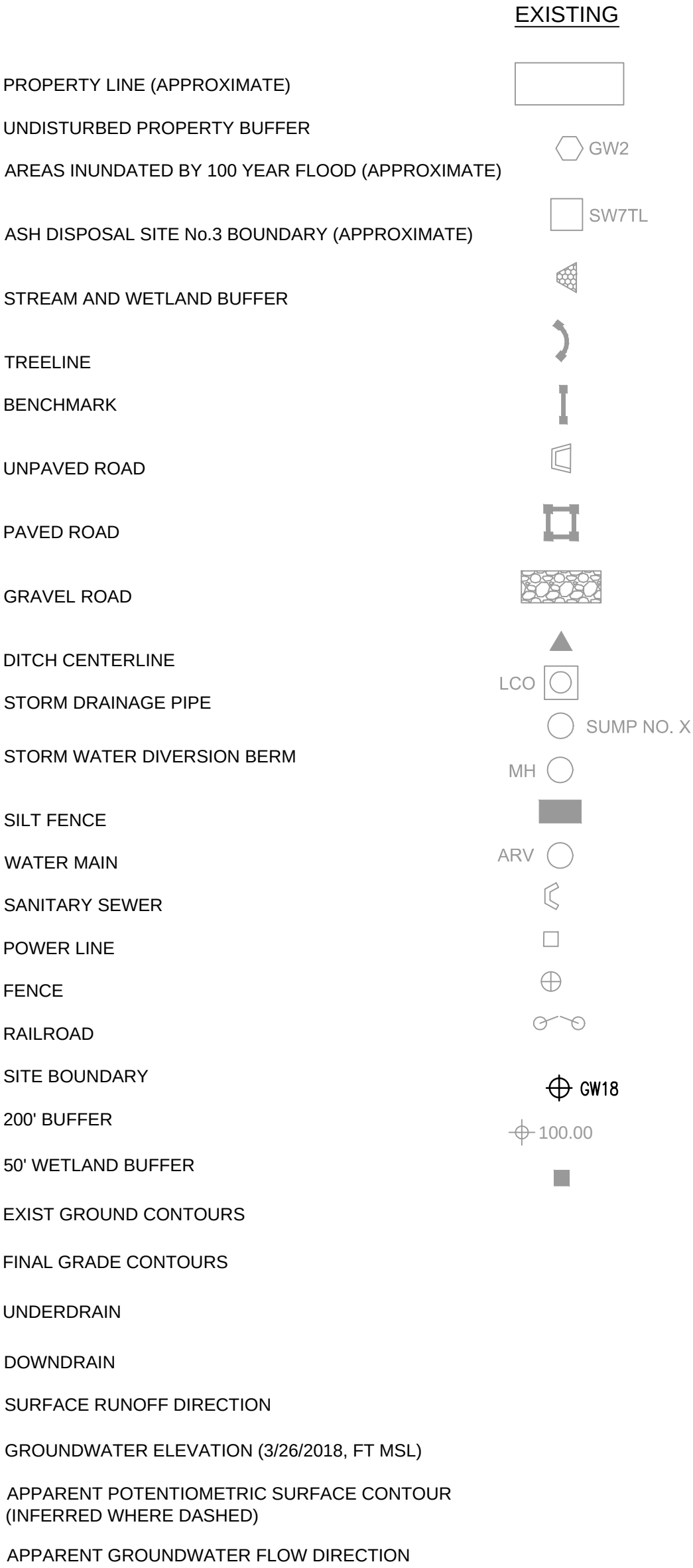


INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	COVER
1	INDEX AND LEGEND
2	EXISTING SITE TOPOGRAPHIC MAP MARCH 2018
3	LONGITUDINAL & TRANSVERSE SECTIONS A-A & B-B FOR PHASE 1 & PHASE 2
4	LONGITUDINAL & TRANSVERSE SECTIONS C-C, D-D & E-E FOR PHASE 1 & PHASE 2
5	SECTIONS & DETAILS
6	POTENTIOMETRIC MAP , MARCH 26, 2018
7	TOPOGRAPHIC & POTENTIOMETRIC CROSS SECTION A-A
8	TOPOGRAPHIC & POTENTIOMETRIC CROSS SECTION B-B
9	EROSION CONTROL SECTIONS AND DETAILS, SHEET 1
10	EROSION CONTROL SECTIONS AND DETAILS, SHEET 2
11	EROSION CONTROL SECTIONS AND DETAILS, SHEET 3



LEGEND

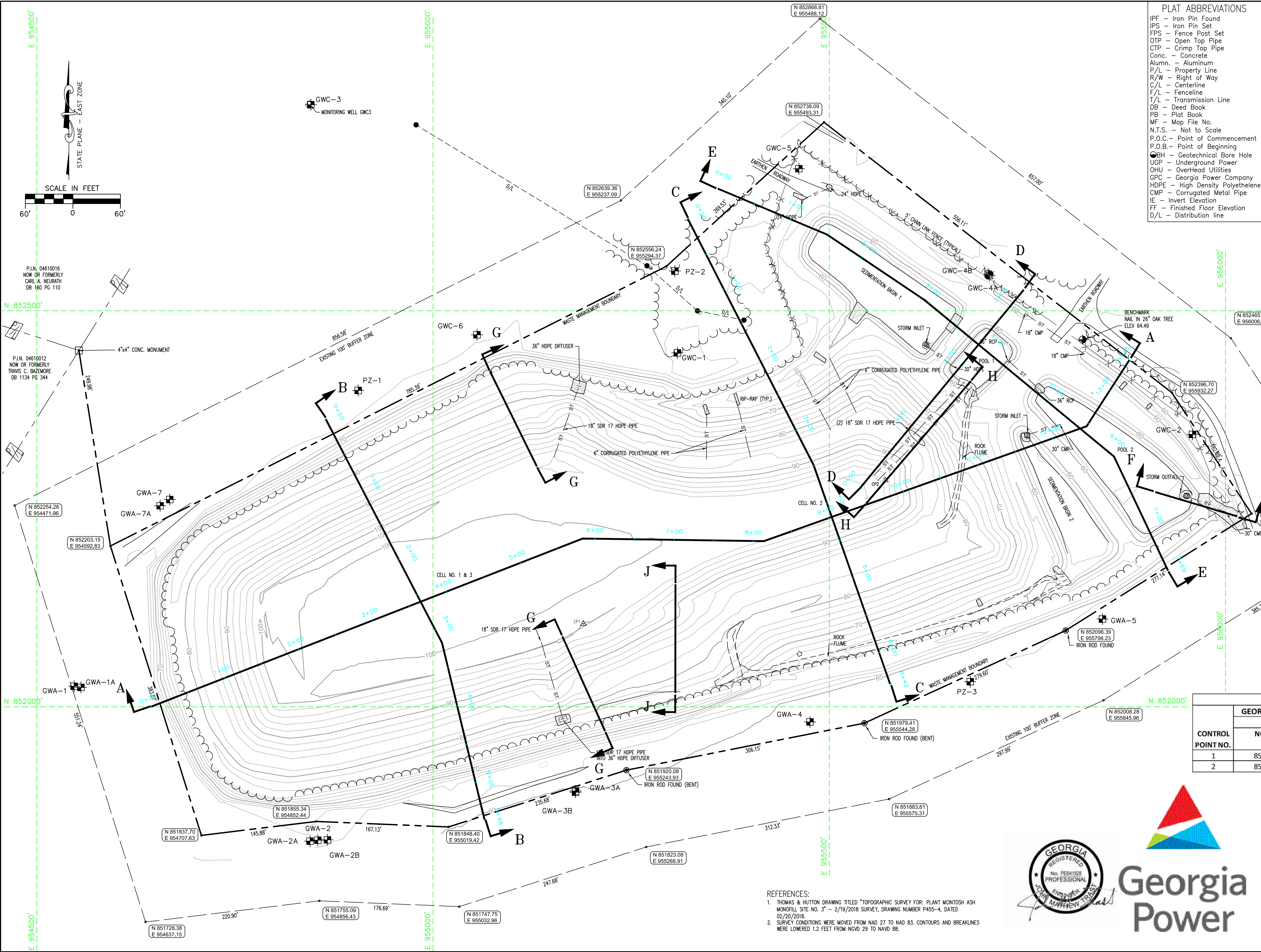


GENERAL NOTES:

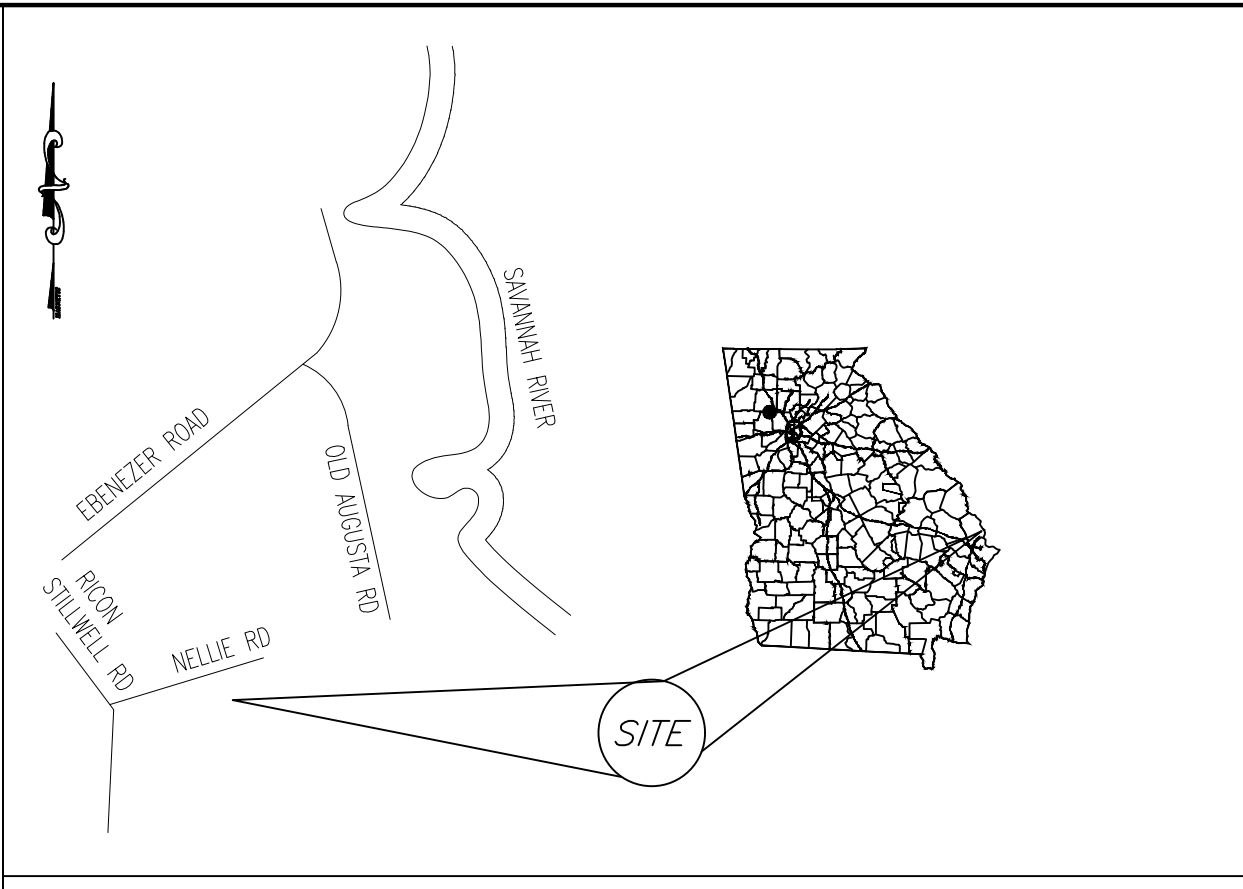
1. PROPERTY LINE IS APPROXIMATE.
2. GRID IS STATE PLANE GRID, NAD83, EAST ZONE. (APPROXIMATE).
3. AERIAL WAS DEVELOPED FROM 2017 NAIP USDA-FSA-APFO AERIAL PHOTOGRAPHY.
4. GEORGIA POWER COMPANY PROPERTY LINE DATA OBTAINED FROM ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY.
5. SOUTHERN COMPANY SERVICES, EPS-7017-4 SITE SA-1, LAYOUT.
6. SAVANNAH ELECTRIC, P121 MCINTOSH PLANT SITE.
7. FLOOD INSURANCE RATE MAP, EFFINGHAM COUNTY, GEORGIA, PANEL 100 OF 175, MARCH, 1987.
8. SEE SHEET 2 FOR GENERAL NOTES AND REFERENCES.



INDEX AND LEGEND		
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT MCINTOSH EFFINGHAM, GEORGIA		
GEI consultants (404) 592-0050 https://www.geiconsultants.com/ 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
PROJ. NO.	1702944	DWG. 1
SCALE	NONE	EDIT
DATE	NOVEMBER 2018	SHEET 1 OF 11



- PLAT ABBREVIATIONS**
- IPF - Iron Pin Found
 - IPS - Iron Pin Set
 - FPS - Fence Post Set
 - OTP - Open Top Pipe
 - CTP - Crimp Top Pipe
 - Conc. - Concrete
 - Alumn. - Aluminum
 - P/L - Property Line
 - R/W - Right of Way
 - C/L - Centerline
 - F/L - Fenceline
 - T/L - Transmission Line
 - DB - Deed Book
 - PB - Plat Book
 - MF - Map File No.
 - N.T.S. - Not to Scale
 - P.O.C. - Point of Commencement
 - P.O.B. - Point of Beginning
 - BH - Geotechnical Bore Hole
 - UGP - Underground Power
 - OHP - Overhead Utilities
 - GPC - Georgia Power Company
 - HDPE - High Density Polyethylene
 - CMP - Corrugated Metal Pipe
 - IE - Invert Elevation
 - FF - Finished Floor Elevation
 - D/L - Distribution line



- MONUMENTATION LEGEND**
- Iron Pin Set
 - Iron Pin Found
 - Monument Set
 - Monument Found
 - Computed Point
 - Control or Traverse Point
 - Geodetic Control Point
 - Benchmark or Temporary Benchmark (TBM)
- UTILITY LEGEND**
- Electric Manhole
 - Electric Meter
 - Gas Manhole
 - Gas Valve
 - Gas Meter
 - Sanitary Sewer Manhole
 - Sanitary Sewer Cleanout
 - Storm Sewer Manhole
 - Telephone Manhole
 - Water Manhole
 - Water Valve
 - Water Meter
 - Fire Hydrant
 - Well
 - Power Pole
 - Transmission Tower
 - Guy Wire
 - Drainage Inlet
 - Groundwater Monitoring Well
 - Storm Drainage Pipe

- LINE TYPE LEGEND**
- Fence
 - Woods Edge
- HATCHING LEGEND**
- Rock / Rip-Rap

EXISTING CONTROL MONUMENTS				
CONTROL POINT NO.	GEORGIA STATE PLANE SYSTEM - EAST		ELEVATION (feet, M.S.L.)	DESCRIPTION
	NORTHING (feet)	EASTING (feet)		
1	852,104.770	955,189.720	101.63	5/8" REBAR WITH T&H CAP CP 1
2	852,286.050	955,570.610	99.78	5/8" REBAR WITH T&H CAP CP 2

REFERENCES:

- THOMAS & HUTTON DRAWING TITLED "TOPOGRAPHIC SURVEY FOR: PLANT MCINTOSH ASH MONORILL SITE NO. 3" - 2/19/2018 SURVEY, DRAWING NUMBER P455-4, DATED 02/20/2018.
- SURVEY CONDITIONS WERE MOVED FROM NAD 27 TO NAD 83. CONTOURS AND BREAKLINES WERE LOWERED 1.2 FEET FROM NGVD 29 TO NAVD 88.



EXISTING SITE TOPOGRAPHIC MAP MARCH 2018

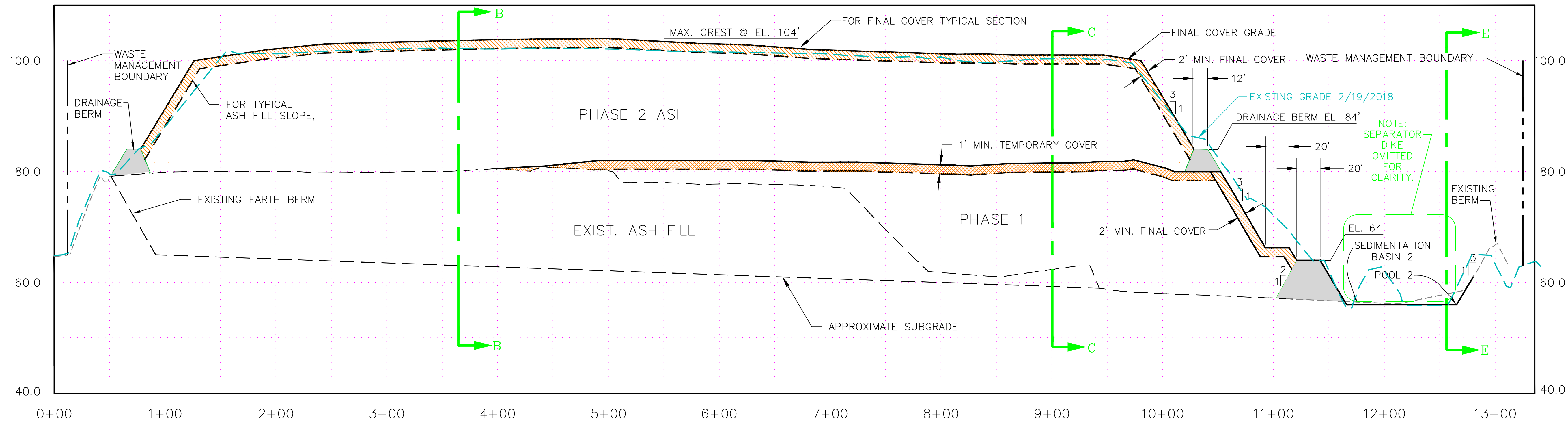
INACTIVE CCR LANDFILL NO. 3
GEORGIA POWER COMPANY
PLANT MCINTOSH
EFFINGHAM, GEORGIA

GEI Consultants

1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

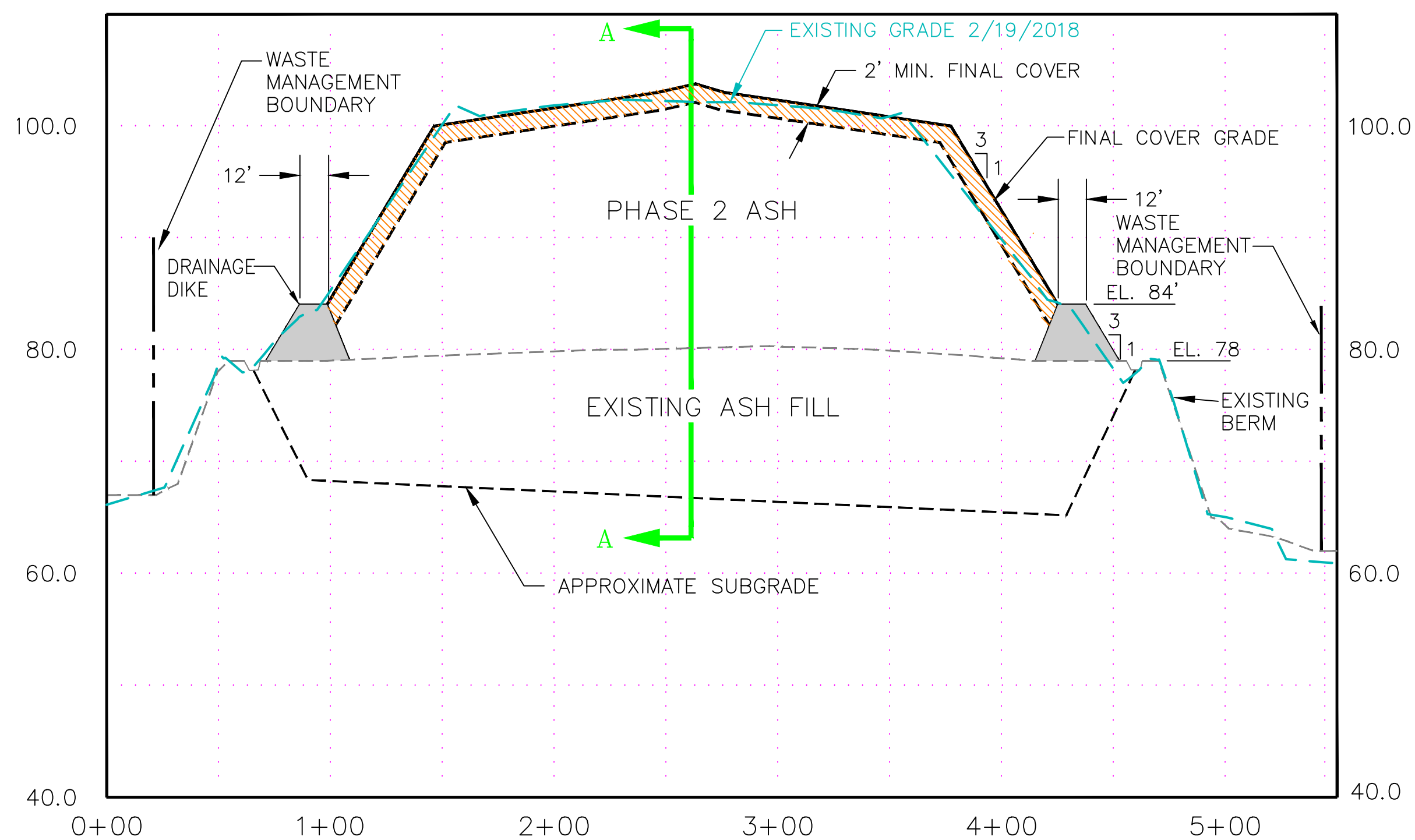
(404) 592-0050
<https://www.geiconsultants.com/>

PROJ. NO.	1702944	DWG.	2	EDIT
SCALE	1"=60'	SHEET 2 OF 11		
DATE	NOVEMBER 2018			



LONGITUDINAL SECTION A-A

HORIZ 1"=50'
VER 1"=10'

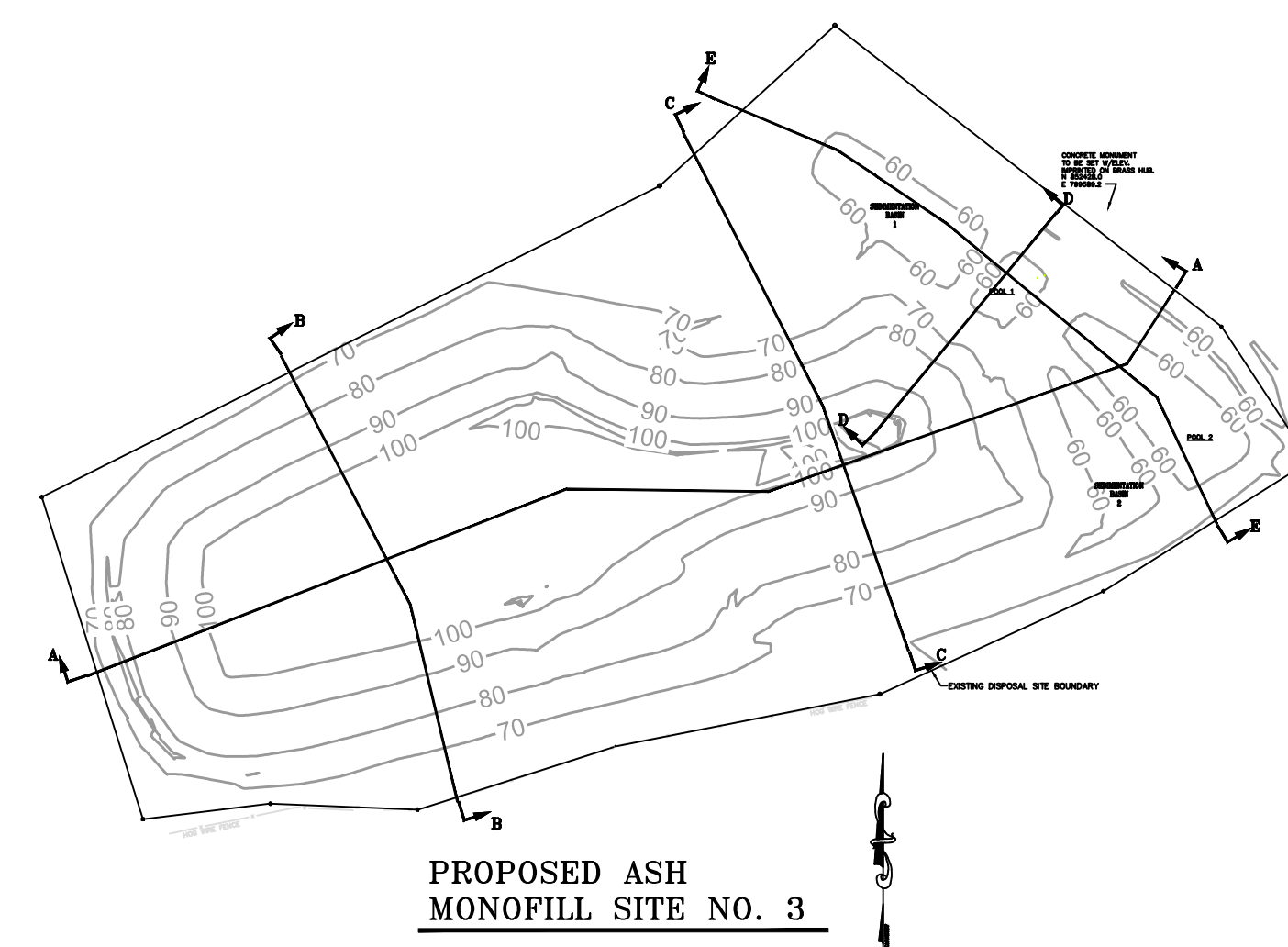


TRANVERSE SECTION B-B

HORIZ 1"=50'
VER 1"=10'

KEY PLAN:

REFERENCE PLAN FOR LONGITUDINAL & TRANSVERSE SECTIONS
(REFERENCE SHEET NO. 2)

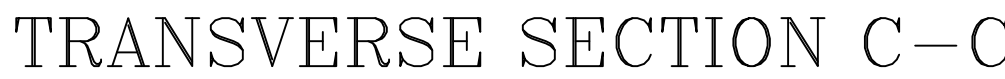


GENERAL NOTES:

1. FOR GENERAL NOTES SEE SHEET NO. 2.
2. FOR COMPLETE LIST OF DRAWING REFERENCES, SEE SHEET 1.



LONGITUDINAL & TRANSVERSE SECTIONS A-A & B-B FOR PHASE 1 & PHASE 2			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT MCINTOSH EFFINGHAM, GEORGIA			
 (404) 592-0050 https://www.geiconsultants.com/		1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
PROJ. NO.	1702944	DWG.	C-3
SCALE	HORIZ. 1"=50', VERT. 1"=10'	SHEET 3 OF 11	
DATE	NOVEMBER 2018		



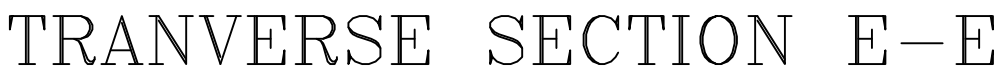
HORIZ 1"=50'
VER 1"=10'



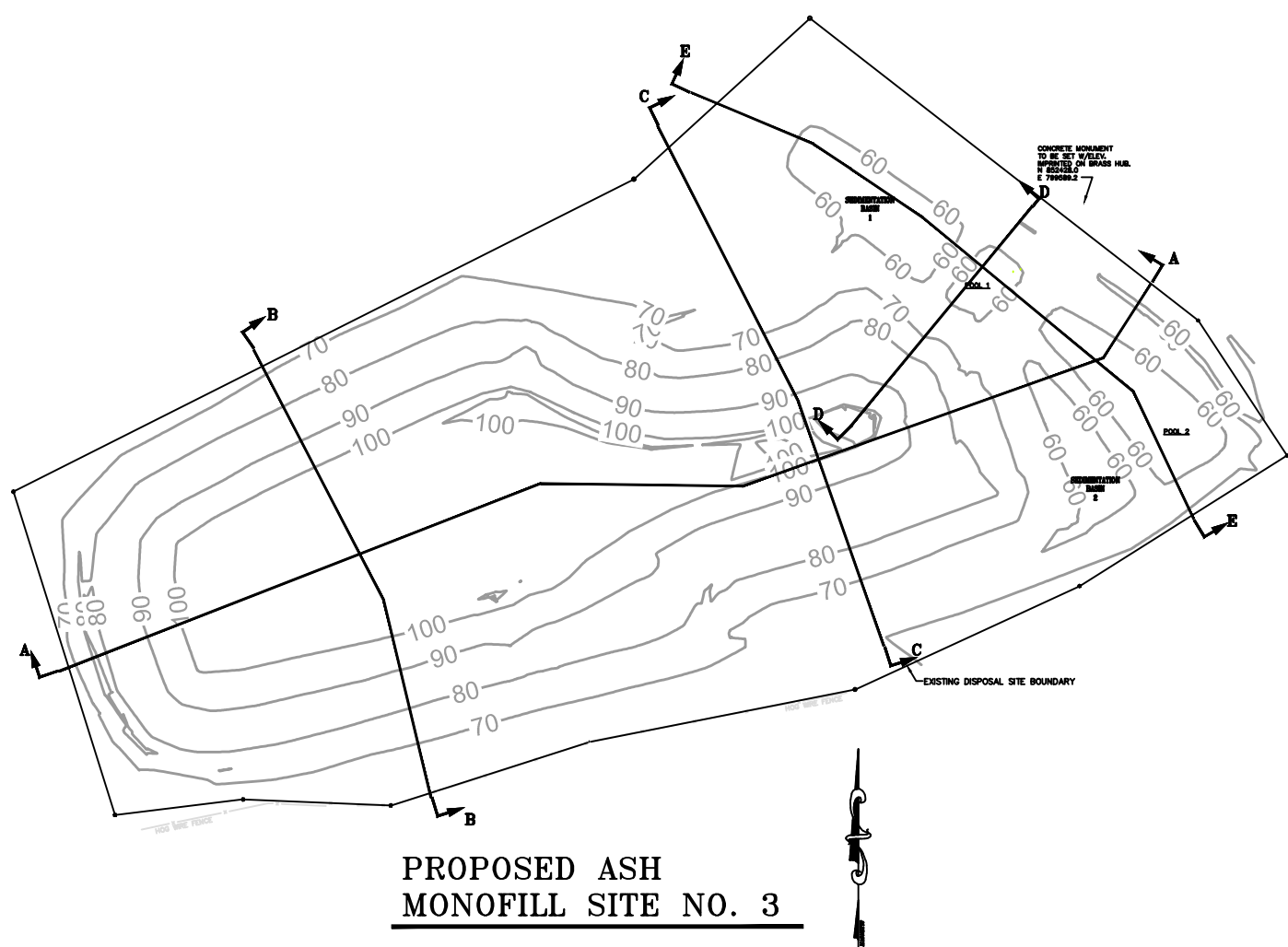
HORIZ 1"=50'
VER 1"=10'

KEY PLAN:

REFERENCE PLAN FOR LONGITUDINAL & TRANSVERSE SECTIONS
(REFERENCE SHEET NO. 2)



HORIZ 1"=50'
VER 1"=10'



PROPOSED ASH
MONOFILL SITE NO. 3

LONGITUDINAL & TRANSVERSE SECTIONS C-C, D-D & E-E FOR PHASE 1 & PHASE 2

INACTIVE CCR LANDFILL NO. 3
GEORGIA POWER COMPANY
PLANT McINTOSH
EFFINGHAM, GEORGIA



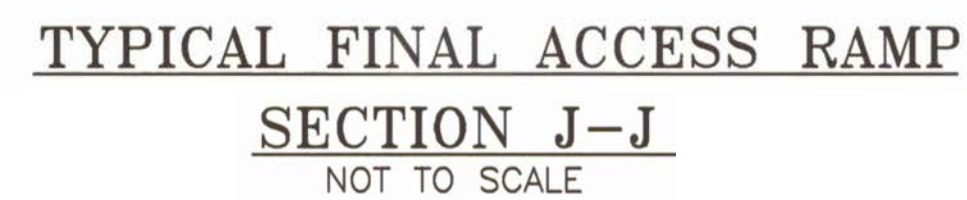
1375 PEACHTREE STREET NE, SUITE A1
ATLANTA, GEORGIA 30309

(404) 592-0050
<https://www.geiconsultants.com/>

PROJ. NO.	1702944	DWG.	4	EDIT
SCALE	HORIZ. 1"=50', VERT. 1"=10'	SHEET 4 OF 11		
DATE	NOVEMBER 2018			

GENERAL NOTES:

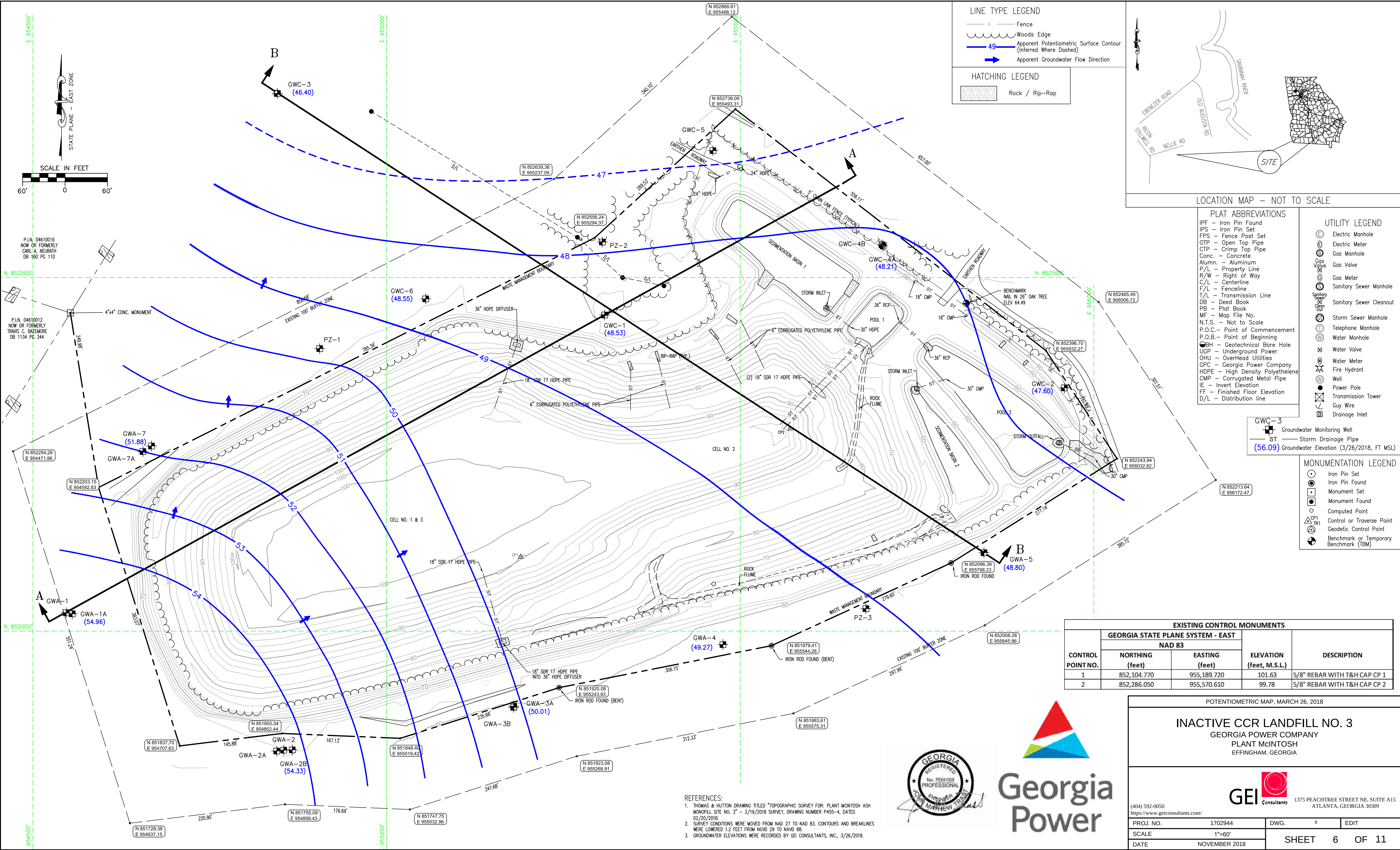
1. FOR GENERAL NOTES SEE SHEET NO. 2.
2. FOR COMPLETE LIST OF DRAWING REFERENCES, SEE SHEET 1.



GEORGIA
REGISTERED
No. PE041928
PROFESSIONAL
ENGINEER
JOHN MATTHEW TRAIST



SECTIONS & DETAILS			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT McIntOSH EFFINGHAM, GEORGIA			
 GEI Consultants 1375 PEACHTREE STREET NE, SUITE A100 ATLANTA, GEORGIA 30309			
(404) 592-0050 https://www.geiconsultants.com/			
PROJ. NO.	1702944	DWG.	5
SCALE	NONE	SHEET 5 OF 11	
DATE	NOVEMBER 2018		



EXISTING CONTROL MONUMENTS					
CONTROL POINT NO.	GEORGIA STATE PLANE SYSTEM - EAST		ELEVATION (feet, M.S.L.)	DESCRIPTION	
	NAD 83				
	NORTHING (feet)	EASTING (feet)			
1	852,104.770	955,189.720	101.63	5/8" REBAR WITH T&H CAP CP 1	
2	852,286.050	955,570.610	99.78	5/8" REBAR WITH T&H CAP CP 2	

POTENTIOMETRIC MAP, MARCH 26, 2018

INACTIVE CCR LANDFILL NO. 3
GEORGIA POWER COMPANY
PLANT MCINTOSH
EFFINGHAM, GEORGIA

GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

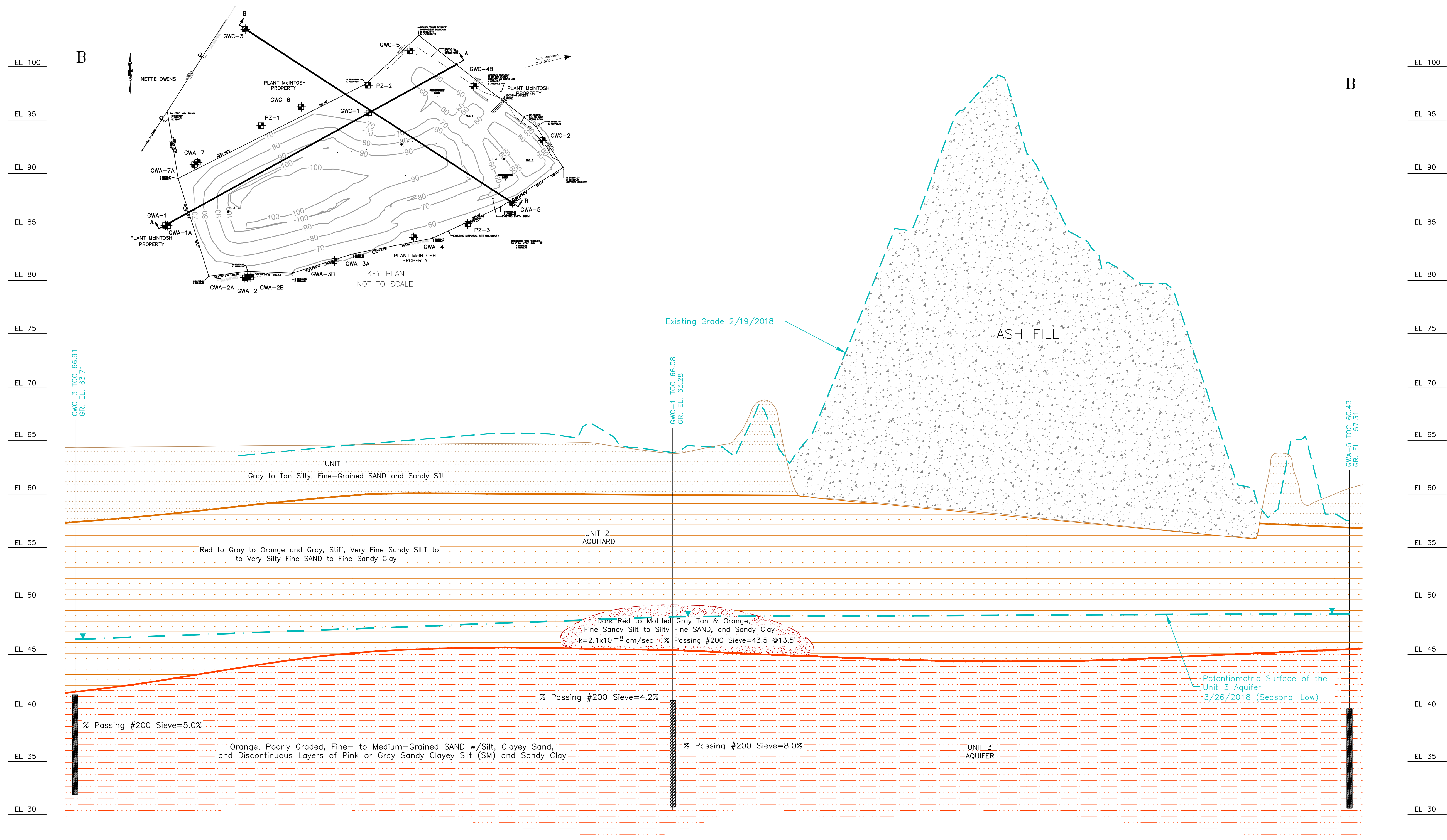
(404) 592-0050 https://www.geiconsultants.com/	PROJ. NO. 1702944	DWG. 6	EDIT
SCALE 1"=60'	SHEET 6 OF 11		
DATE NOVEMBER 2018			

REFERENCES:
1. THOMAS & HUTTON DRAWING TITLED "TOPOGRAPHIC SURVEY FOR: PLANT MCINTOSH ASH MONORILL SITE NO. 3" - 2/19/2018 SURVEY, DRAWING NUMBER P455-4, DATED 02/20/2018.
2. SURVEY CONDITIONS WERE MOVED FROM NAD 27 TO NAD 83. CONTOURS AND BREAKLINES WERE LOWERED 1.2 FEET FROM NGVD 29 TO NAVD 88.
3. GROUNDWATER ELEVATIONS WERE RECORDED BY GEI CONSULTANTS, INC., 3/26/2018.





TOPOGRAPHIC & POTENTIOMETRIC CROSS SECTION A-A				
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT McINTOSH EFFINGHAM, GEORGIA				
(404) 592-0050 https://www.geiconsultants.com/		GEI  1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
PROJ. NO.	1702944	DWG.	7	EDIT
SCALE	HORIZ. 1"=50'; VERT. 1"=5'		SHEET 7 OF 11	
DATE	NOVEMBER 2018			

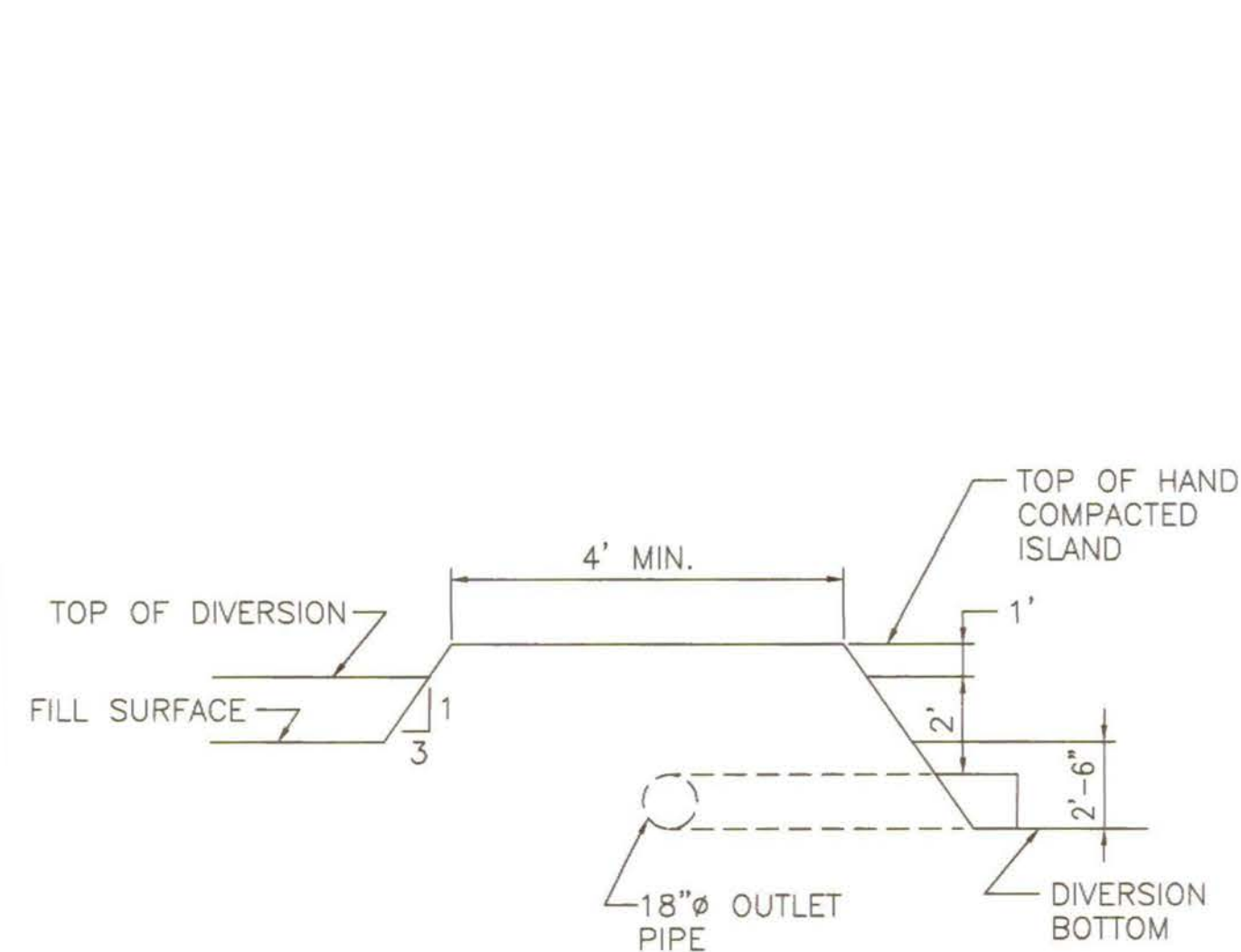


Note:
Soil stratigraphy and wells have been revised from local site datum to NAVD 88 per Donaldson Garrett & Associates, inc. 2/19/2018 survey. Soil stratigraphy and wells have been lowered 1.2' to show NAVD 88.

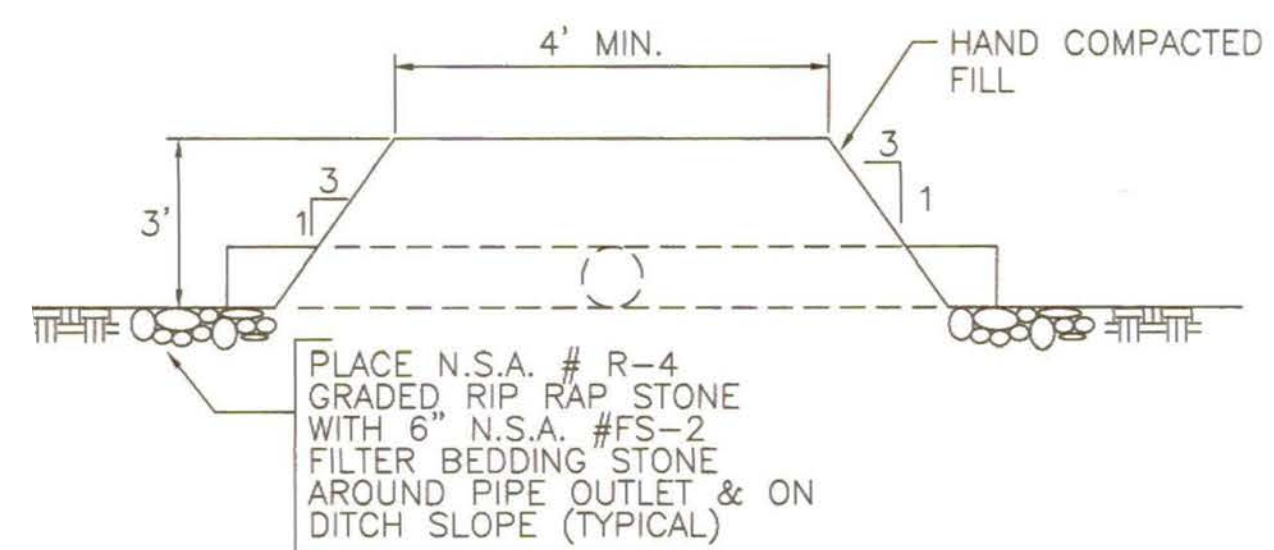
SECTION B-B'
Scale:Horizontal 1"=50'
Vertical 1"=5'



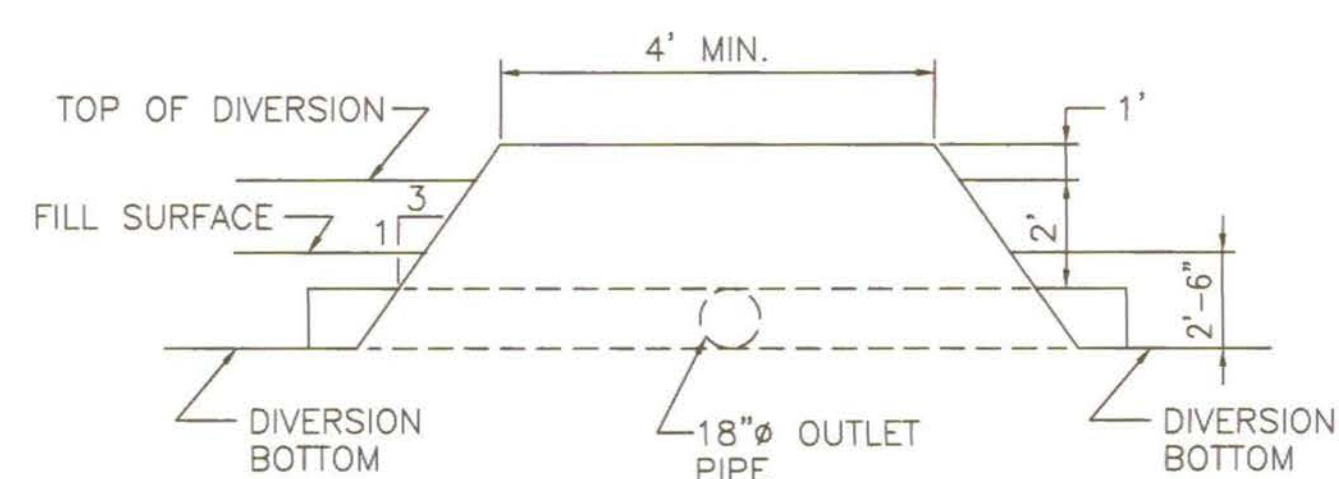
TOPOGRAPHIC & POTENTIOMETRIC CROSS SECTION B-B			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT MCINTOSH EFFINGHAM, GEORGIA			
GEI Consultants (404) 592-0050 https://www.geiconsultants.com/ 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309			
PROJ. NO.	1702944	DWG.	8
SCALE	HORIZ. 1"=50', VERT. 1"=5'	SHEET 8 OF 11	
DATE	NOVEMBER 2018		



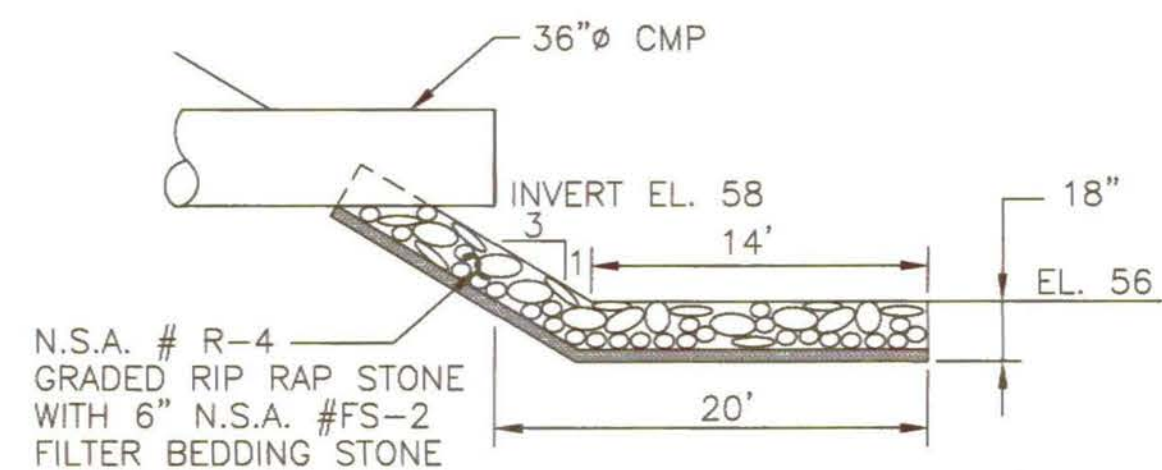
SECTION 1-1 (F7)
NOT TO SCALE



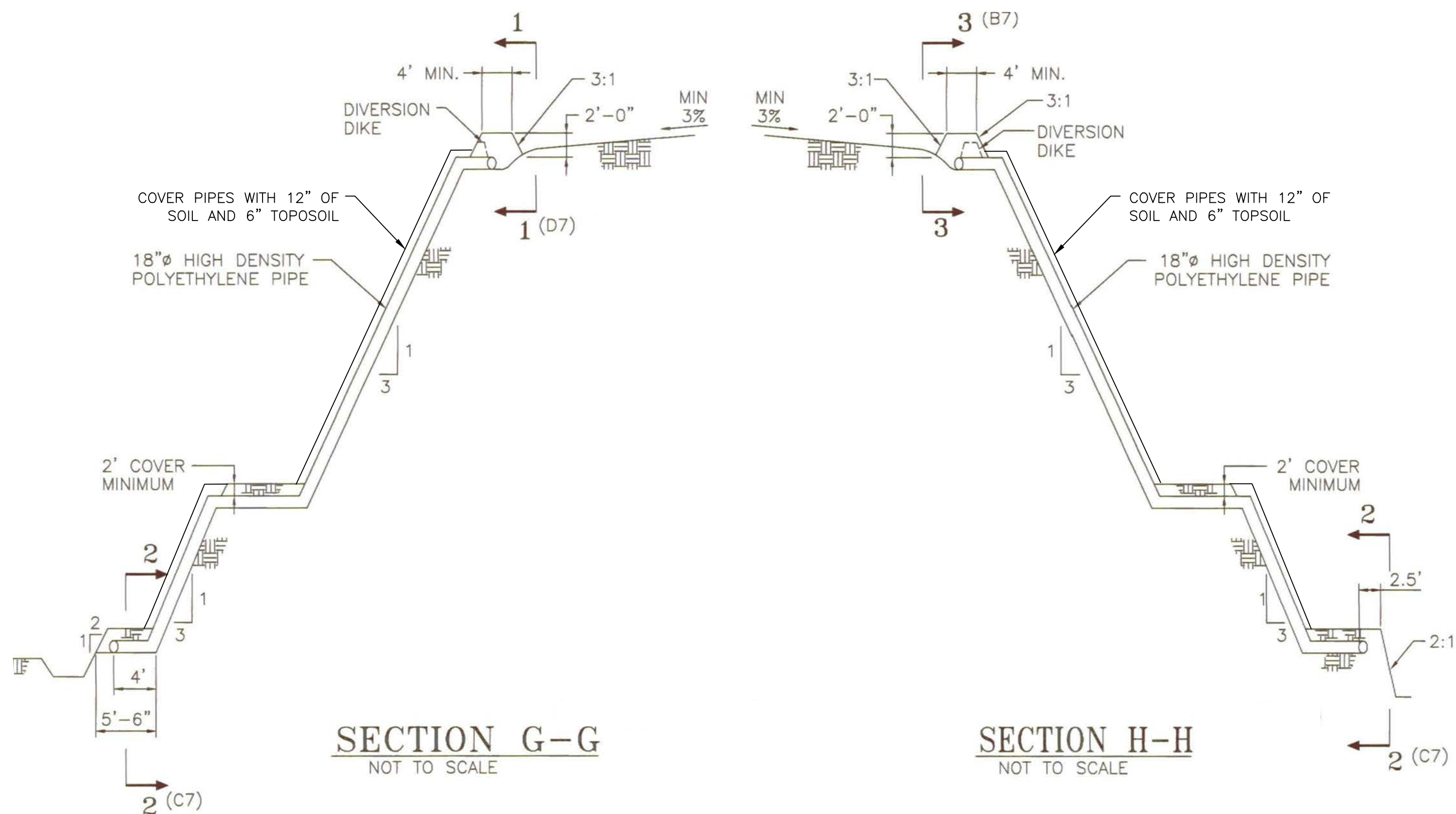
SECTION 2-2
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SECTION 3-3 (F6)
NOT TO SCALE

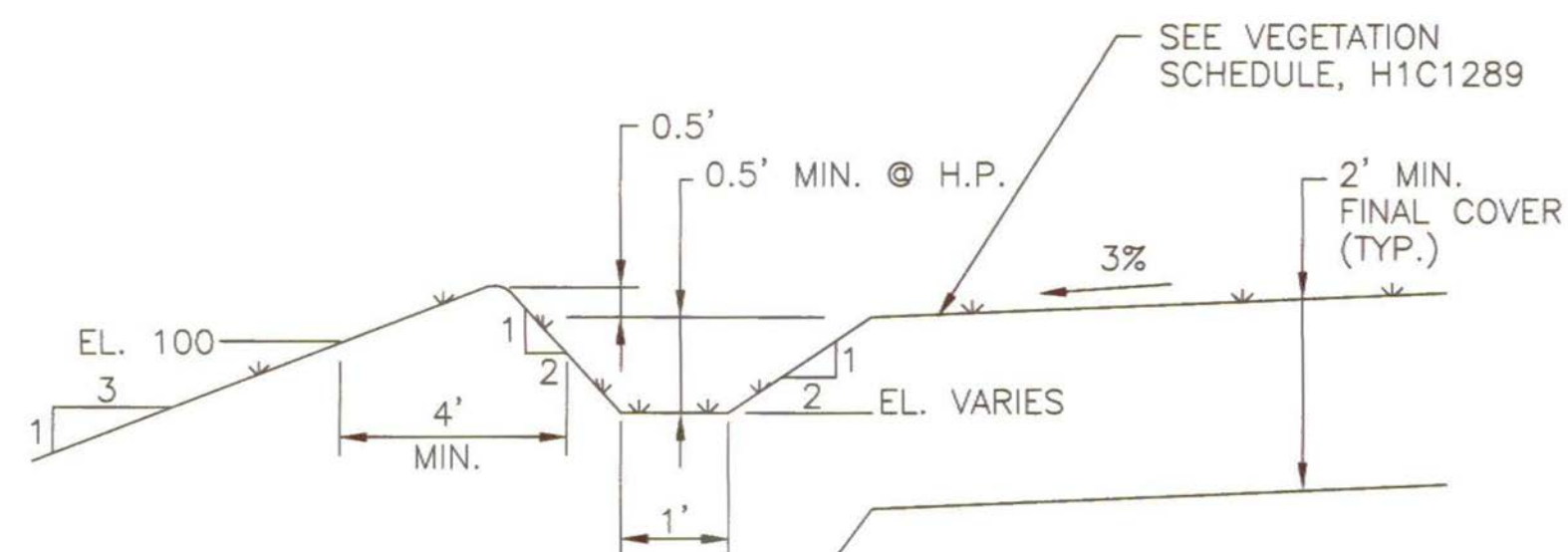


RIP RAP DETAIL B - SECTION 4-4 (F4)
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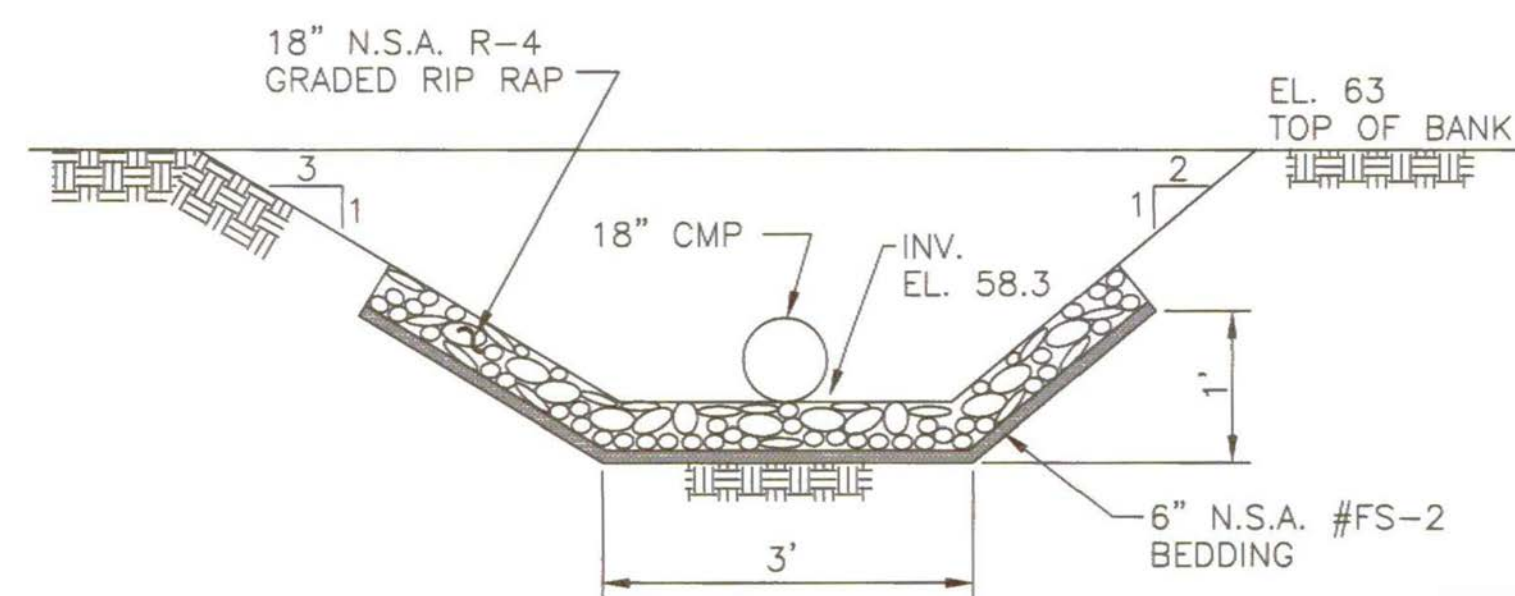


SECTION G-G
NOT TO SCALE

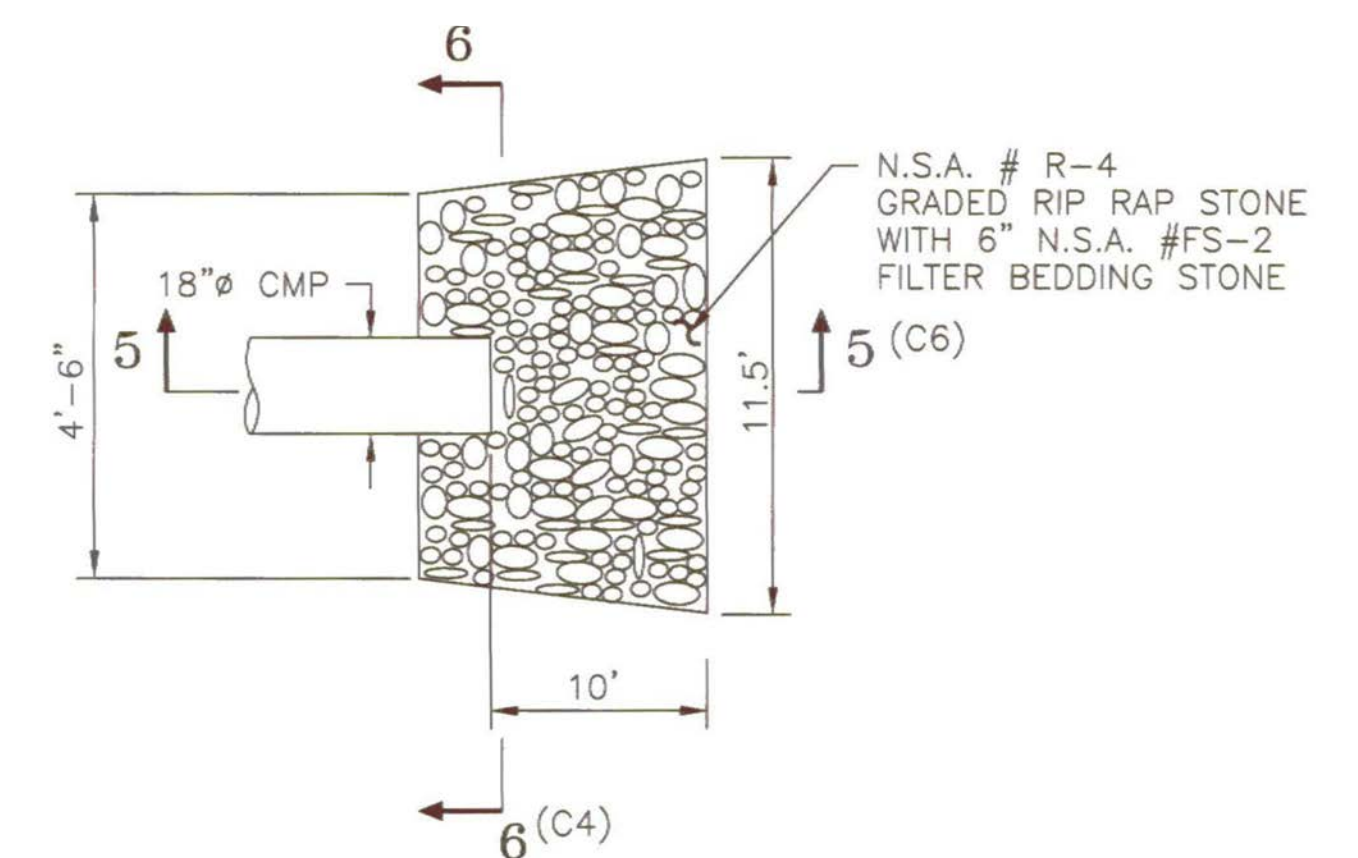
SECTION H-H
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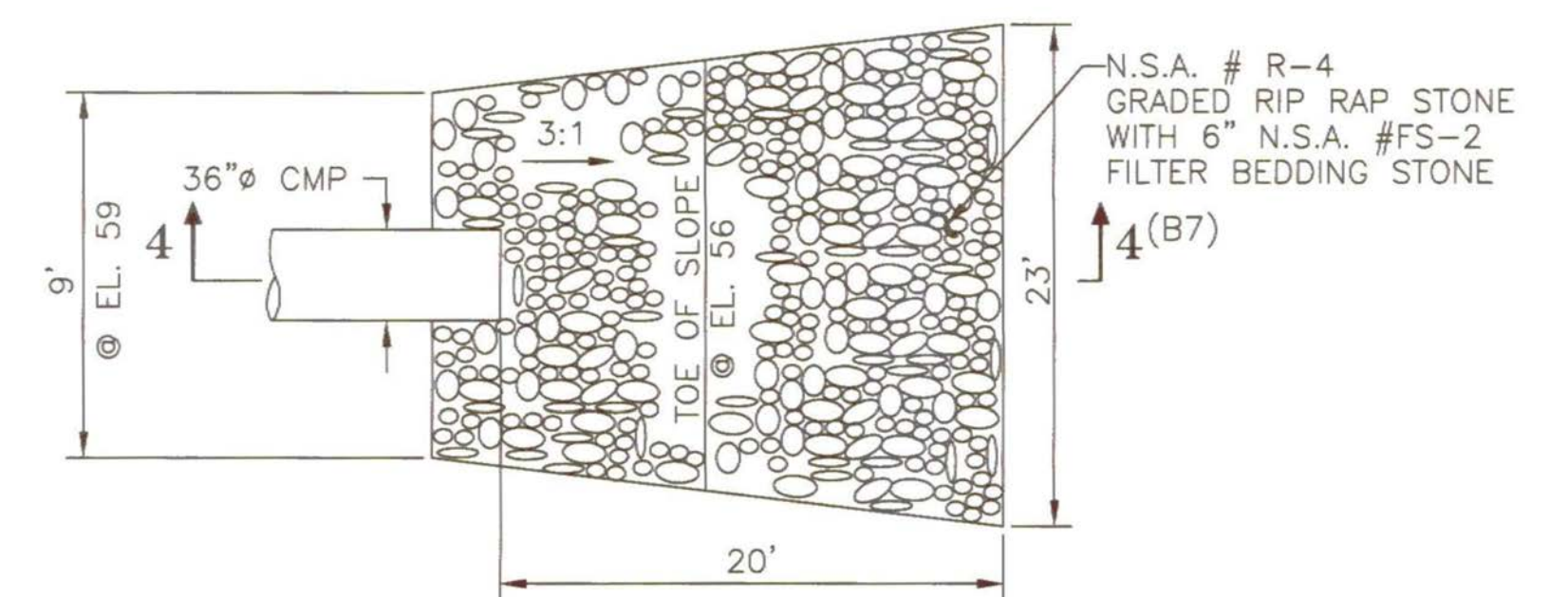
DIVERSION - TYPICAL DETAIL D
NOT TO SCALE



RIP RAP DETAIL A - SECTION 6-6 (F1)
NOT TO SCALE



RIP RAP - DETAIL A
NOT TO SCALE



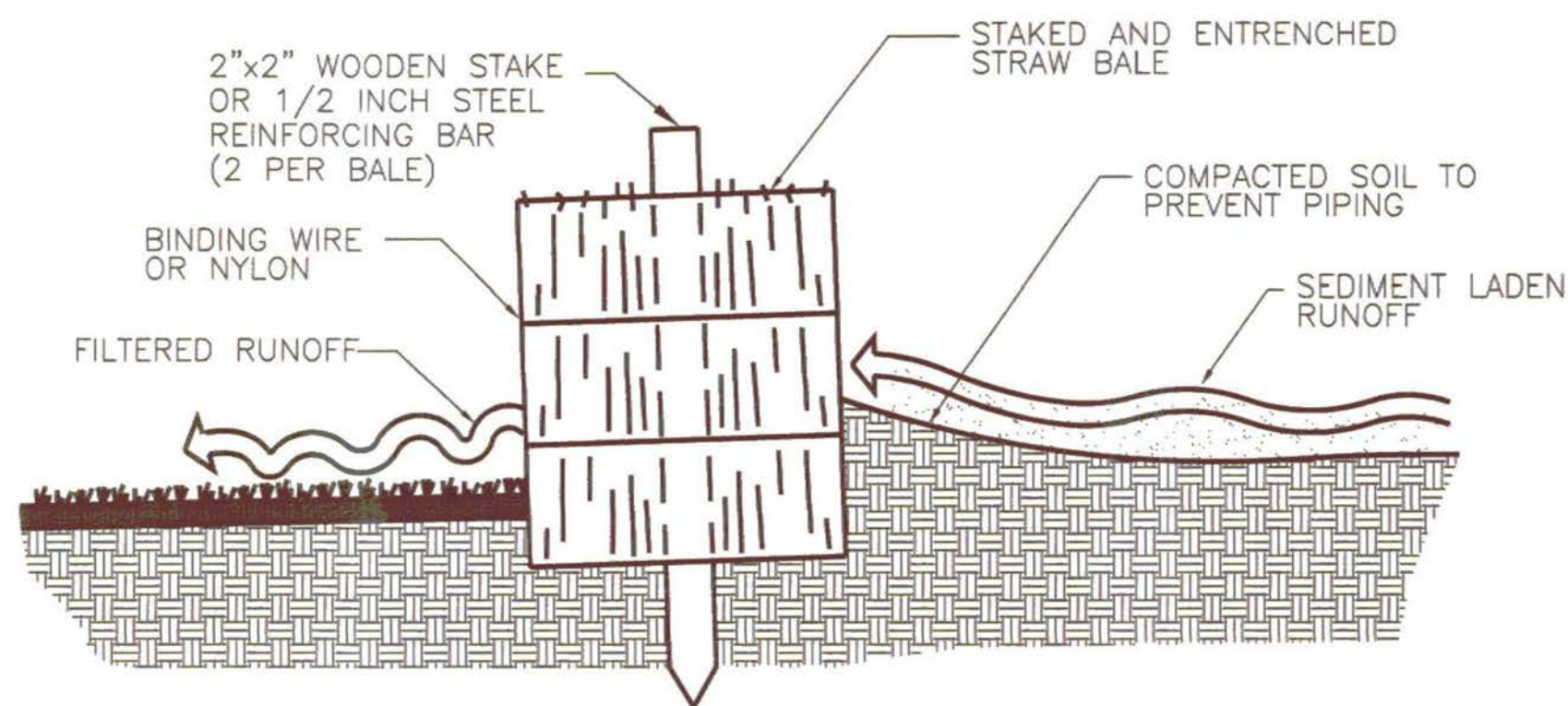
RIP RAP PLAN - DETAIL B
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR GENERAL NOTES SEE SHEET NO. 2.
3. FOR COMPLETE LIST OF DRAWING REFERENCES, SEE SHEET 1.

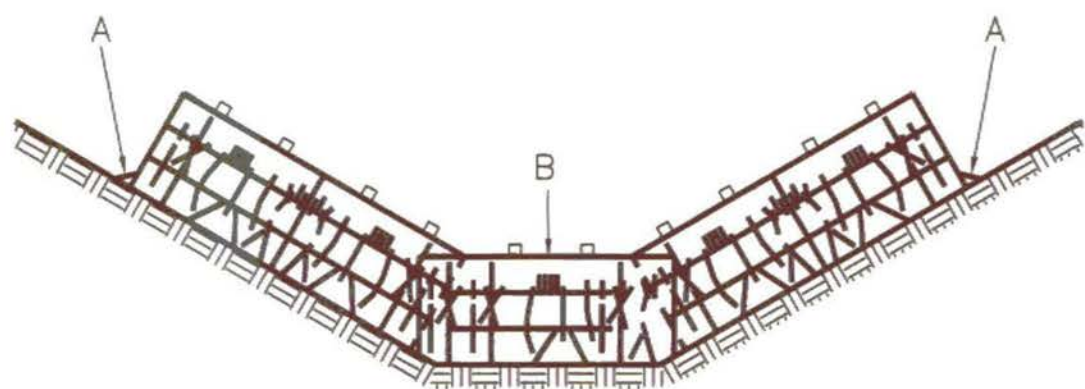


EROSION CONTROL DETAILS & SECTIONS, SHEET 1			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT McINTOSH EFFINGHAM, GEORGIA			
(404) 592-0050 https://www.geiconsultants.com/		GEI Consultants 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
PROJ. NO.	1702944	DWG.	9
SCALE	NONE	SHEET 9 OF 11	
DATE	NOVEMBER 2018		



NOTE: EMBED HAY BALE A MINIMUM OF 4 INCHES.

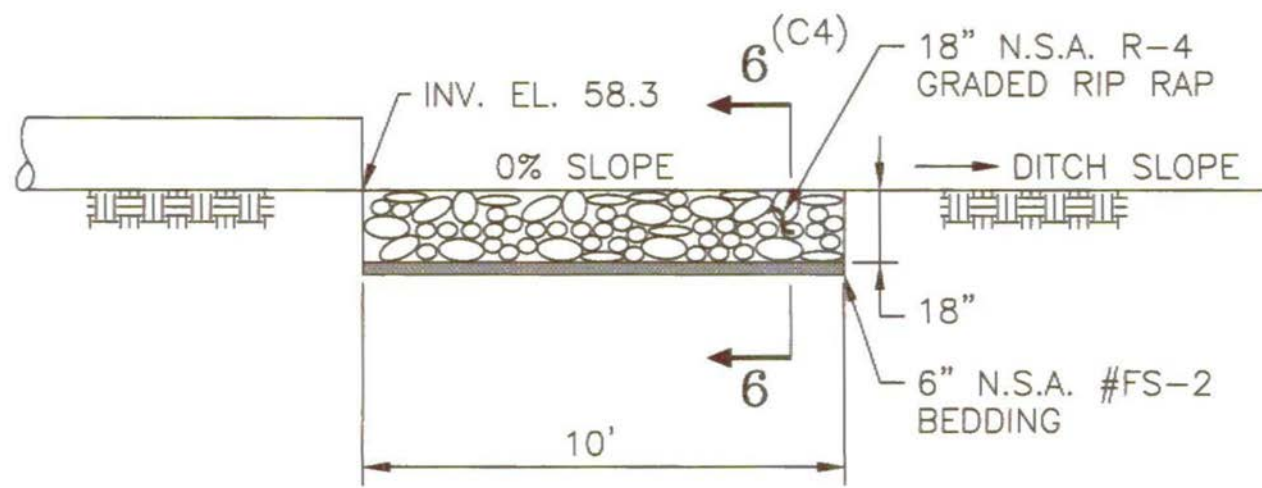
CROSS SECTION OF INSTALLED HAY BALE
NOT TO SCALE



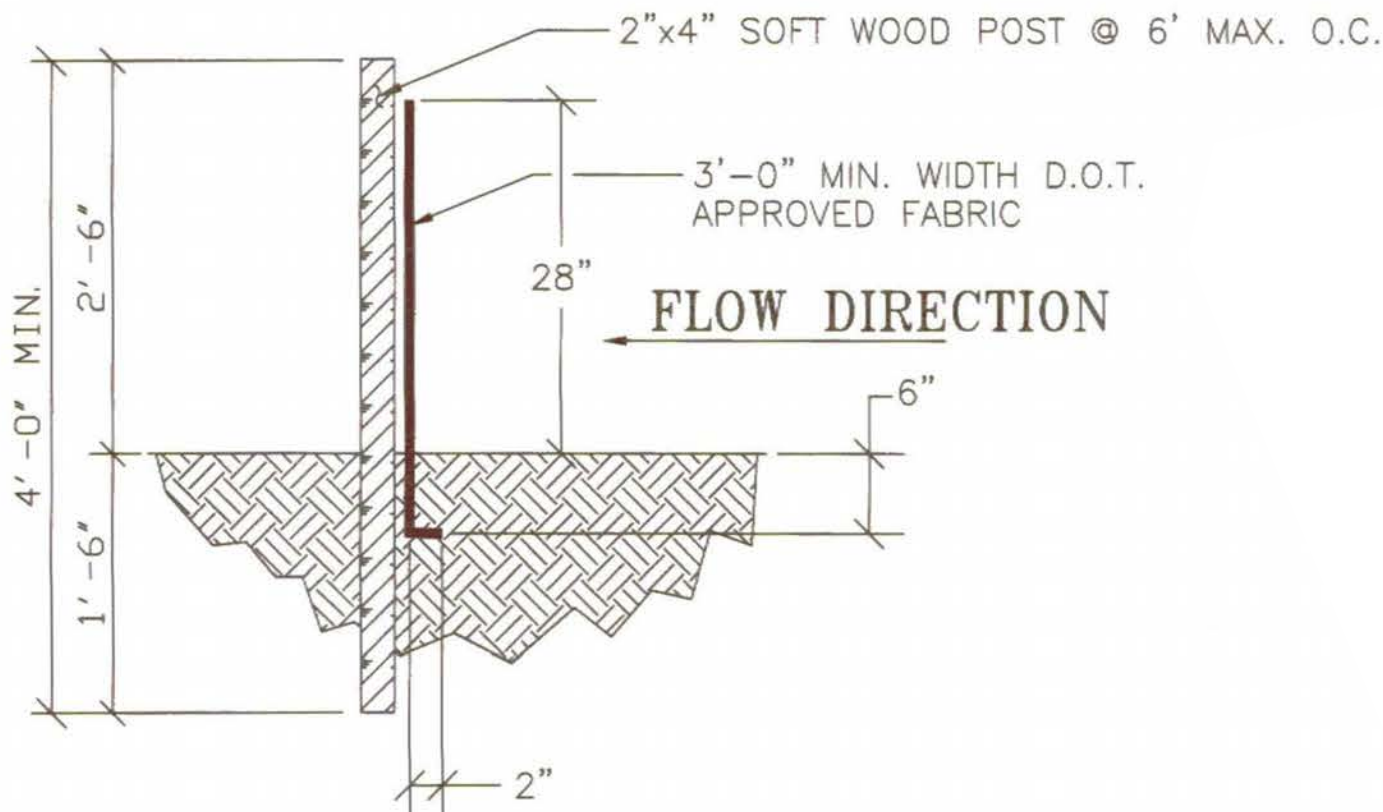
PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY
NOT TO SCALE

NOTES:

- POINTS "A" SHOULD BE HIGHER THAN POINT "B".
- EMBED HAY BALES A MINIMUM OF 4 INCHES.
- HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
- EACH BALE SHALL BE CONSTRAINED BY TWO 2"x2" WOODEN STAKES OR TWO 1/2"Ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
- HAY BALE CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED.
- SEDIMENT BEHIND CHECK DAM SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DEPTH OF CHECK DAM OR BEFORE.

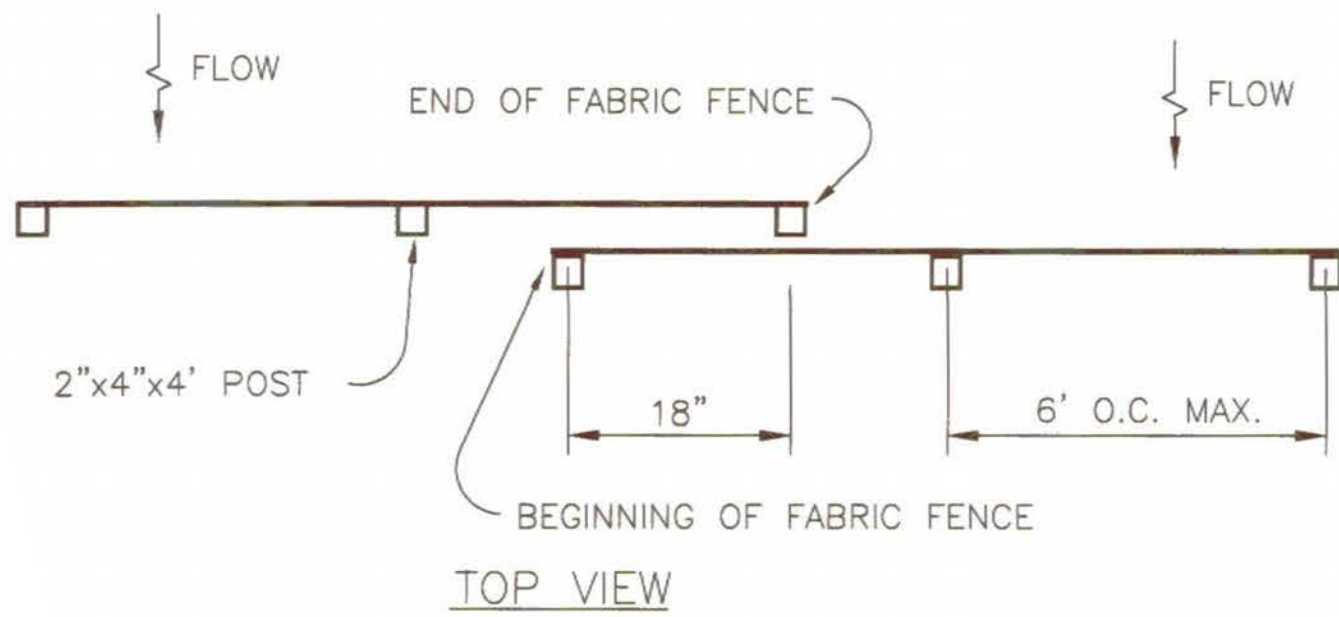


RIP RAP DETAIL A - SECTION 5-5 (E4)
NOT TO SCALE

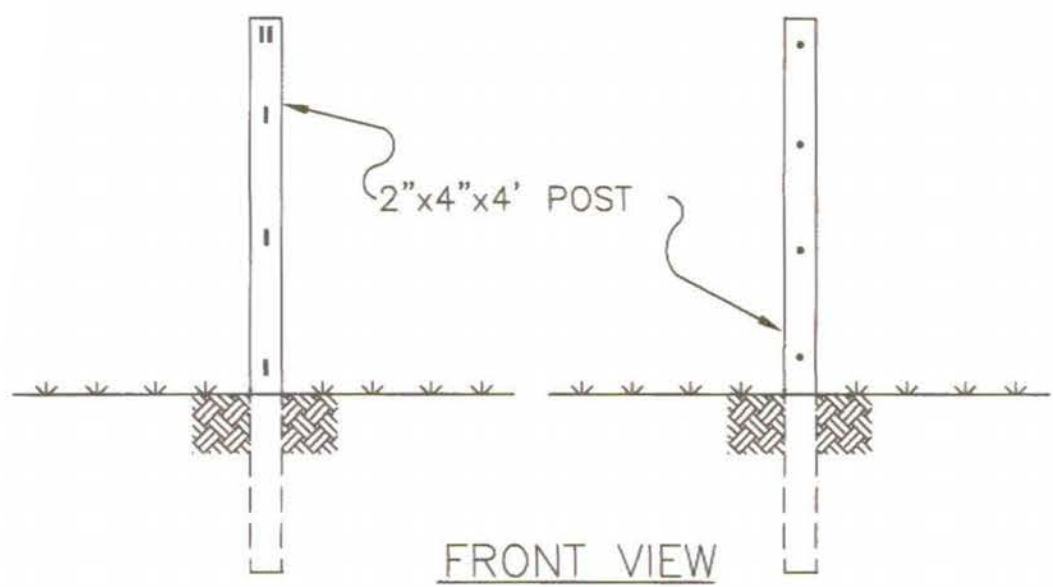


- THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC.
- REFERENCE GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL, CHAPTER 6, SECTION Sd1, 4TH ED., 1996.

ASH MONOFILL - TYP. SILT FENCE DETAIL - TYPE A
NO SCALE



TYPICAL SILT FENCE - OVERLAP DETAIL
NOT TO SCALE



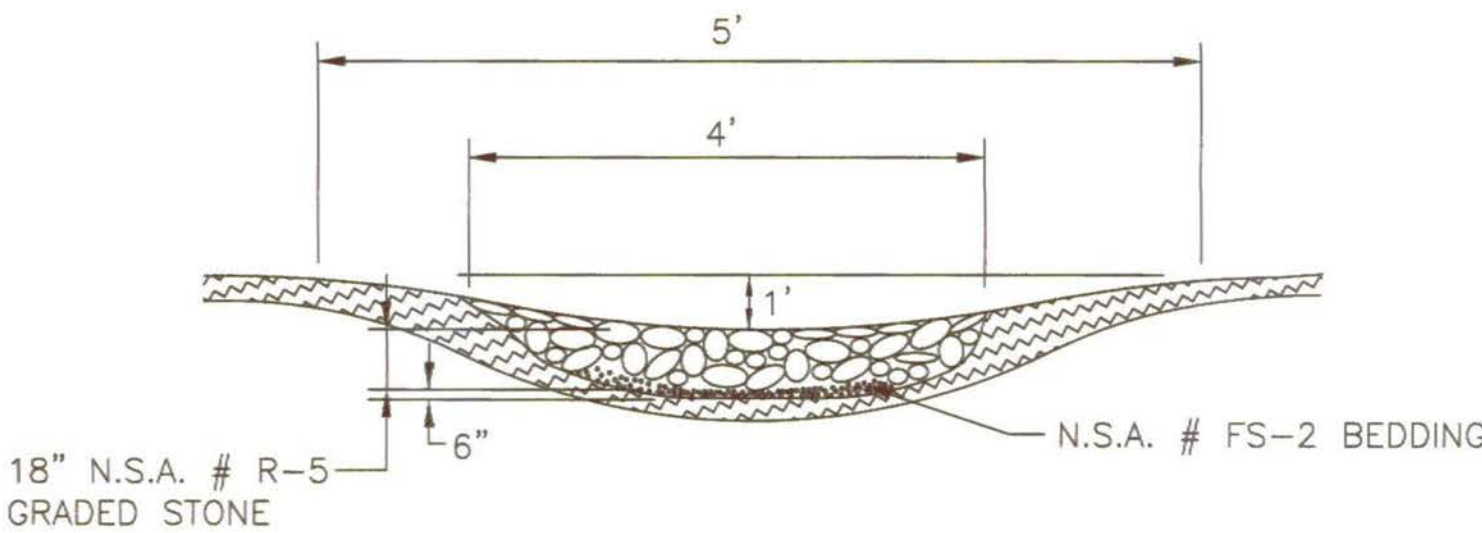
NOTES:

- FASTENERS FOR WOOD POSTS.

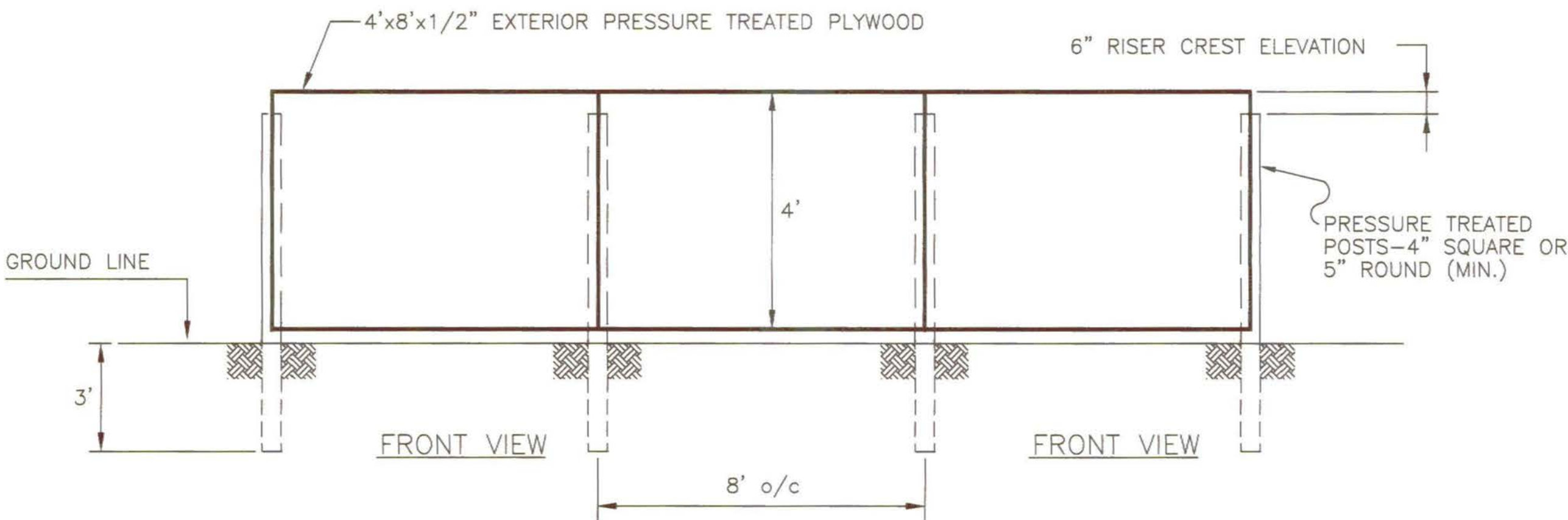
	GAUGE	CROWN	LEGS	STAPLES/POST
WIRE STAPLES	17 MIN.	3/4" WIRE	1/2" LONG	5 MIN.

	GAUGE	LENGTH	BUTTON HEADS	STAPLES/POST
NAILS	14 MIN.	1" WIRE	3/4"	5 MIN.

TYPICAL SILT FENCE - FASTENER DETAIL
NOT TO SCALE



WATERWAY WITH STONE CENTER - DETAIL C - TYPICAL
NOT TO SCALE



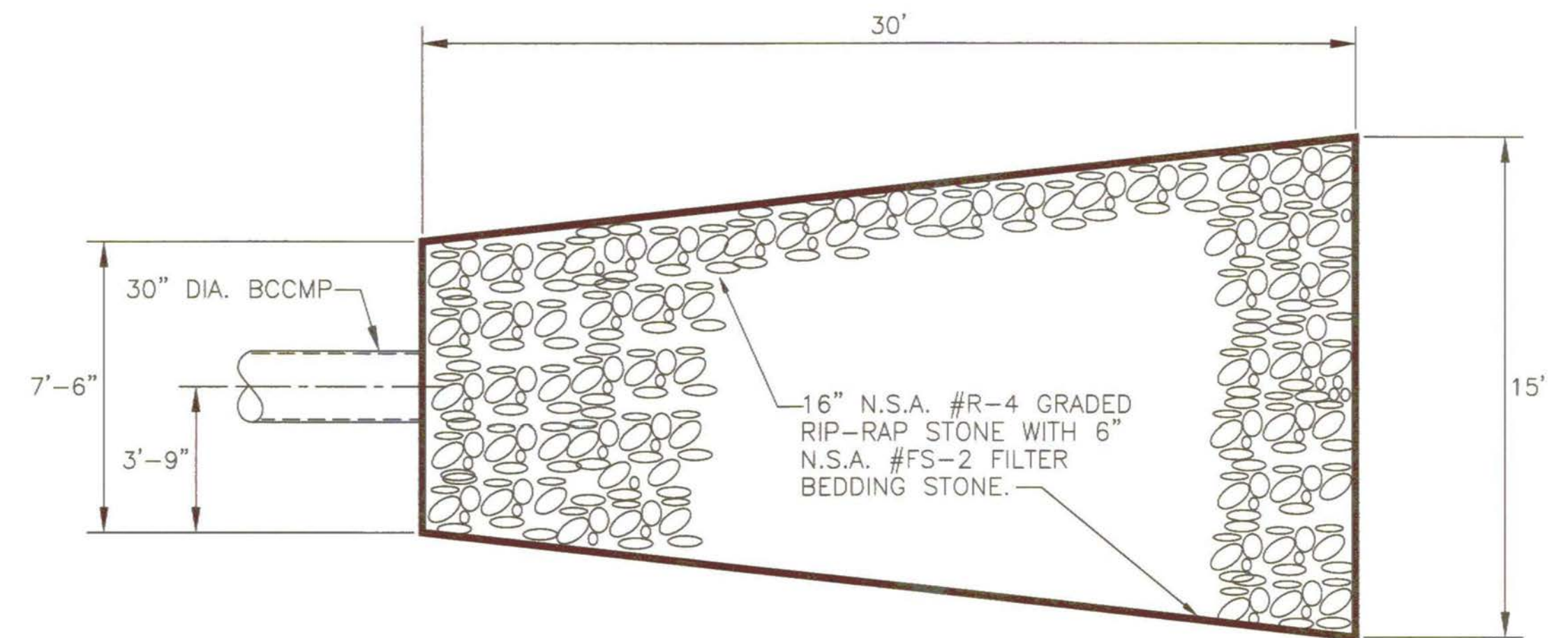
SEDIMENT BASIN BAFFLE PROFILE
NOT TO SCALE

REFERENCES:

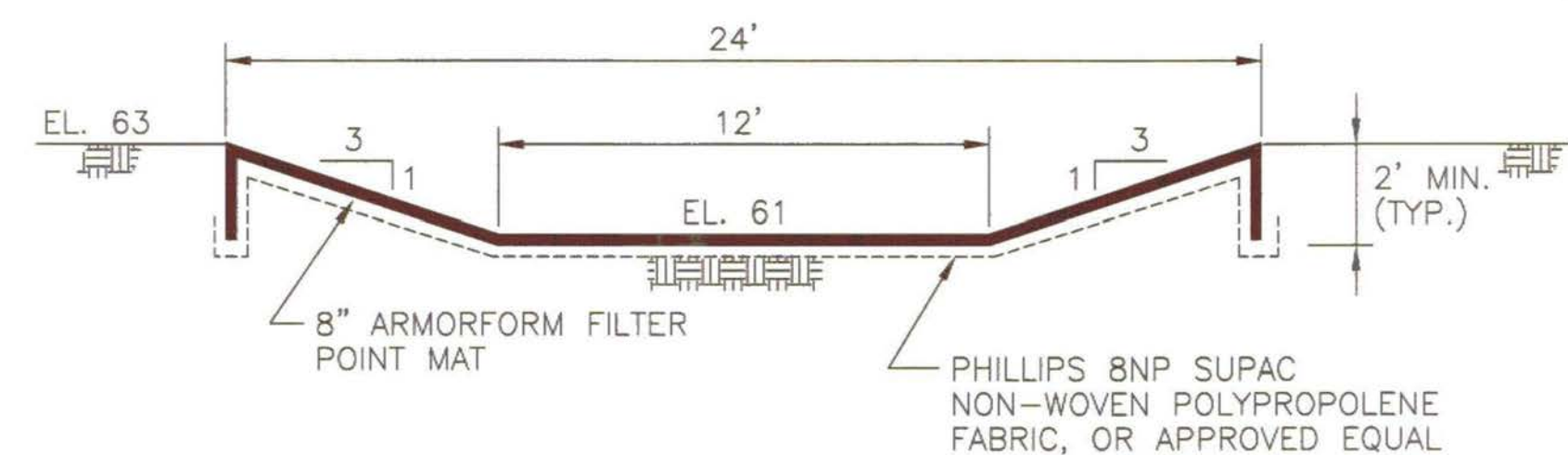
- MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- FOR GENERAL NOTES SEE SHEET NO. 2.
- FOR COMPLETE LIST OF DRAWING REFERENCES, SEE SHEET 1.



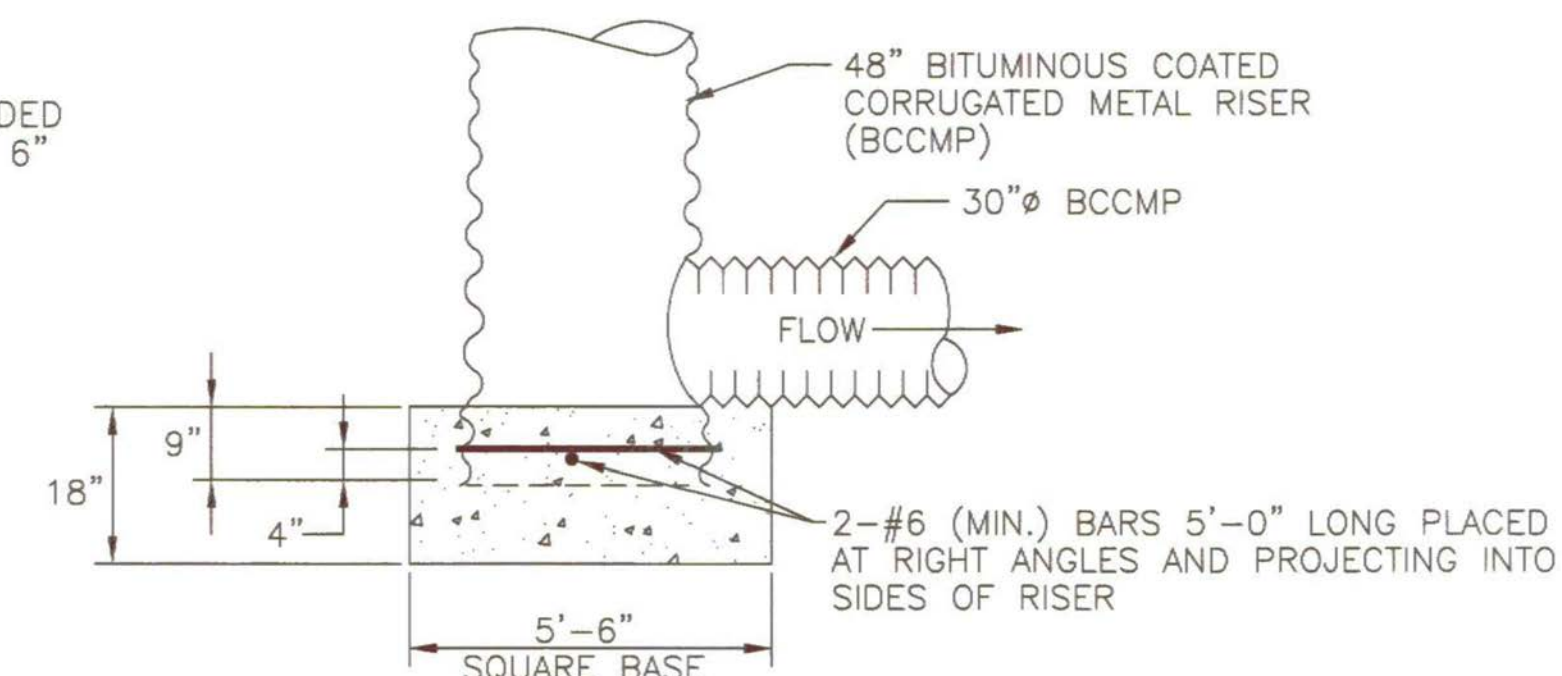
EROSION CONTROL DETAILS & SECTIONS, SHEET 2			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT McINTOSH EFFINGHAM, GEORGIA			
(404) 592-0050 https://www.geiconsultants.com/		GEI  1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
PROJ. NO.	1702944	DWG.	10
SCALE	NONE	SHEET 10 OF 11	
DATE	NOVEMBER 2018		



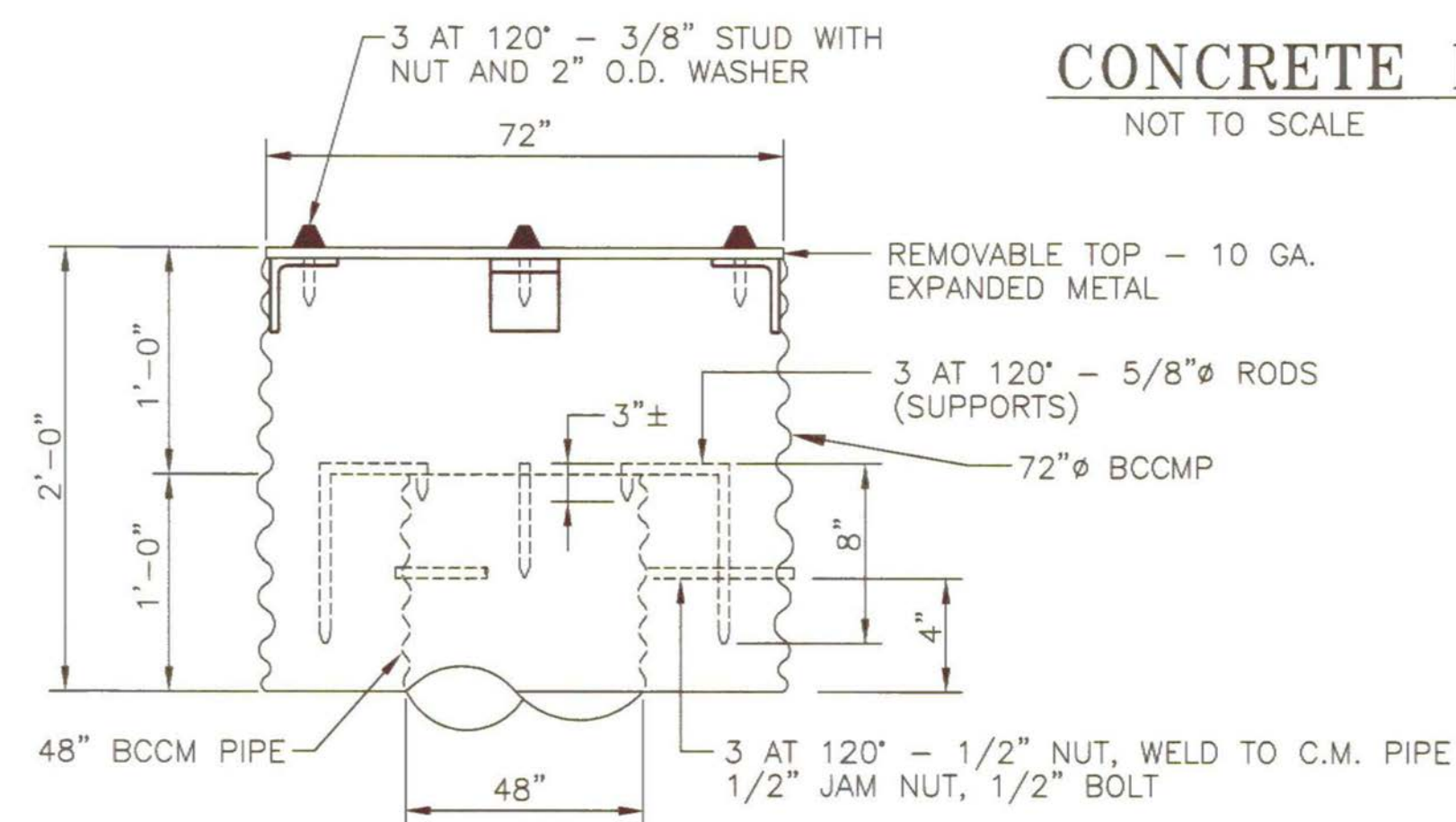
DETAIL B, SECTION K-K ^(B6)
NOT TO SCALE



DETAIL A^(D6)
NOT TO SCALE



CONCRETE RISER BASE DETAIL^(E2)



TRASH RACK (F2)
NOT TO SCALE



1. The existing embankment shall be excavated to lines and grades indicated for the removal of the existing PVC pipe.
2. The area to receive the new 30 inch pipe shall be hand compacted and any soft or unsuitable material removed, the area backfilled, and compacted.
3. The pipe and riser shall be placed on firm, smooth foundation.
4. The backfill material shall be clean soil free of roots, vegetation, oversized rocks, stones or other objectionable material. Material excavated for removal of existing pipe may be used if not mixed with ash. Otherwise, the fill material shall be obtained from an approved borrow source.
5. Areas on which fill is to be placed shall be scarified prior to fill placement.
6. Fill material shall be conditioned, placed and compacted in accordance with the Construction Quality Control/Quality Assurance Plan and the specifications for earth fill on drawing H1C1283.
7. The riser shall be securely attached to the pipe or stub by welding the full circumference making a watertight structural connection.
8. The connection between the riser and the riser base shall be watertight.
9. All connections between pipe sections shall be watertight, achieved by approved watertight band assemblies.
10. The fill material around the pipe shall be placed in 4 inch layers and hand compacted under and around the pipe to at least the same density as the adjacent fill material.
11. Care must be taken to not raise the pipe from firm contact with its foundation when compacting under the pipe haunches.
12. A minimum depth of 2 ft. of hand compacted fill shall be placed over the pipe before placing and compacting fill with construction equipment.
13. Trash rack nuts, bolts, threads and rods shall be bituminous coated after installation.
14. All disturbed soil areas shall be grassed upon reaching final grade in accordance with the Vegetation Schedule, drawing H1C1289.

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR GENERAL NOTES SEE SHEET NO. 2.
3. FOR COMPLETE LIST OF DRAWING REFERENCES, SEE SHEET 1.

EROSION CONTROL DETAILS & SECTIONS, SHEET 3			
INACTIVE CCR LANDFILL NO. 3 GEORGIA POWER COMPANY PLANT McINTOSH EFFINGHAM, GEORGIA			
		1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
(404) 592-0050 https://www.geiconsultants.com/			
PROJ. NO.	1702944	DWG.	11
SCALE	NONE	SHEET 11 OF 11	
DATE	NOVEMBER 2018		

