

PERMIT DRAWINGS

GEORGIA POWER COMPANY

PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)

EXISTING LANDFILL NO. 4

EFFINGHAM, GEORGIA

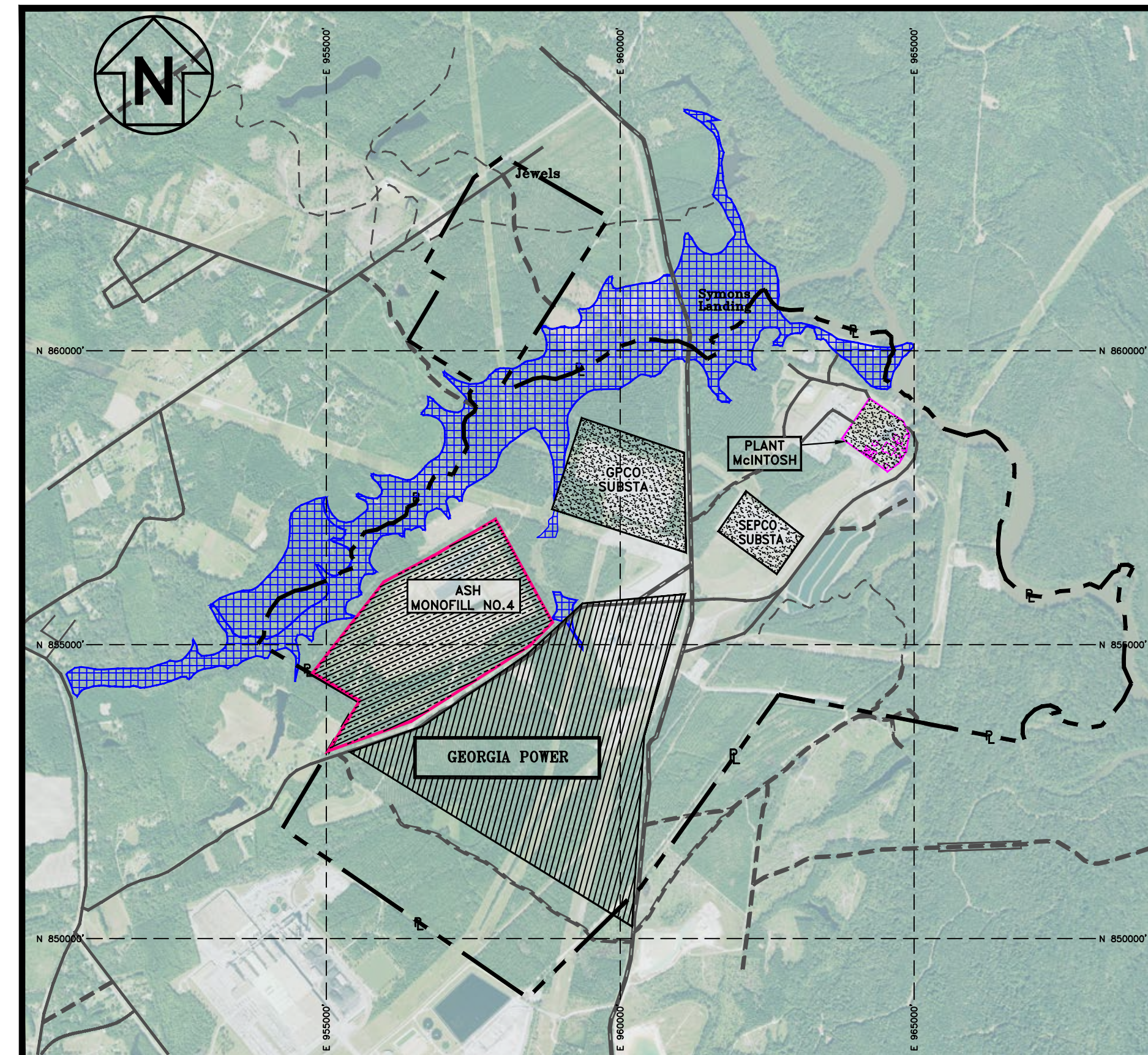
NOVEMBER 2018

OWNER/OPERATOR

GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308

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

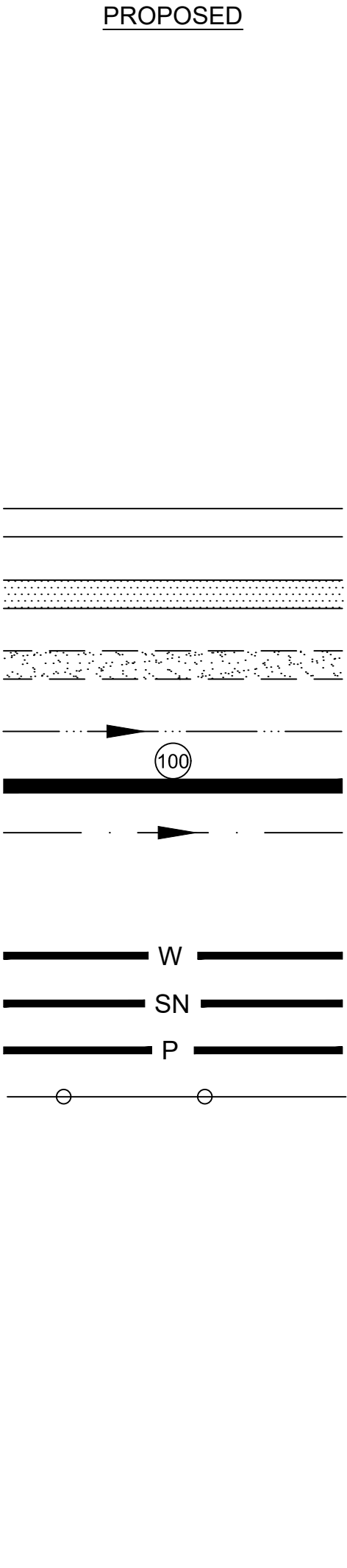
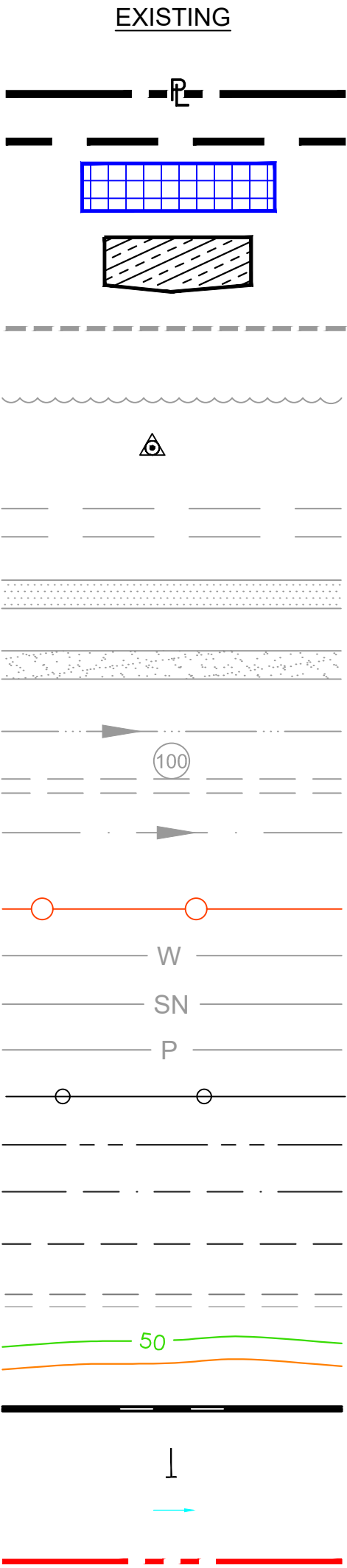


1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050

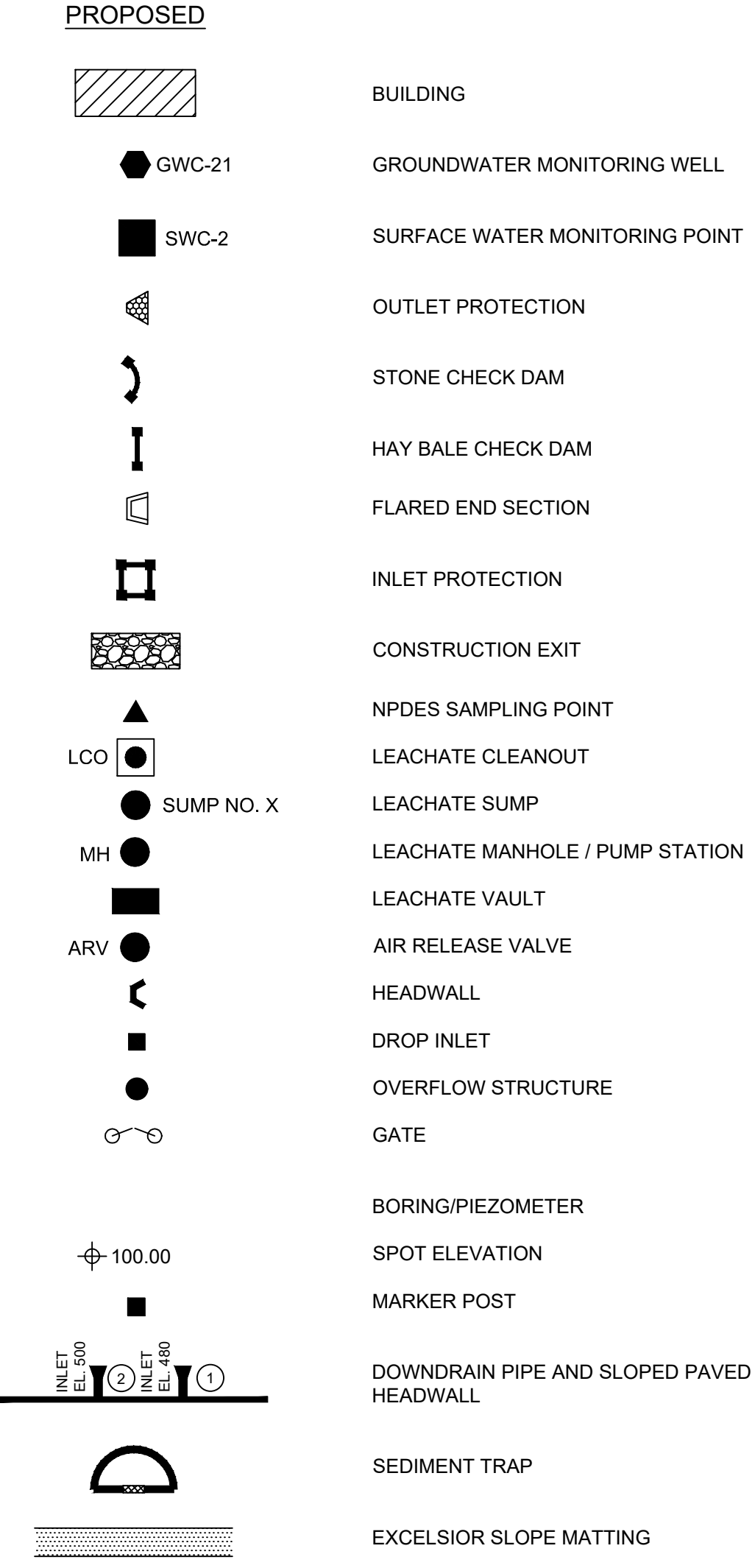


INDEX TO DRAWINGS

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3	GENERAL SITE DEVELOPMENT ASH CELL LAYOUT
4	CELL 2A SITE DEVELOPMENT PLAN
5	FINAL GRADING PLAN
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LEGEND

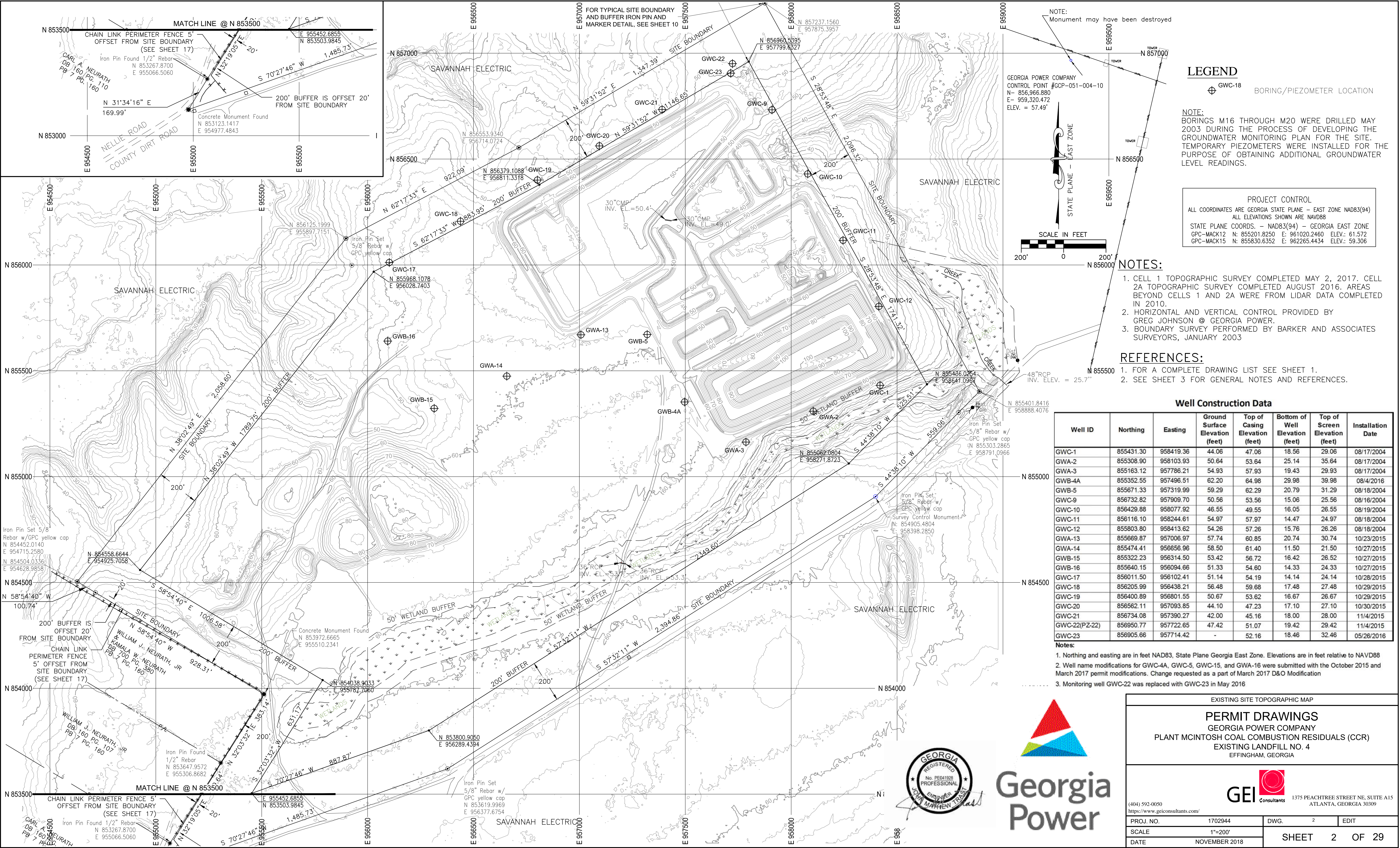


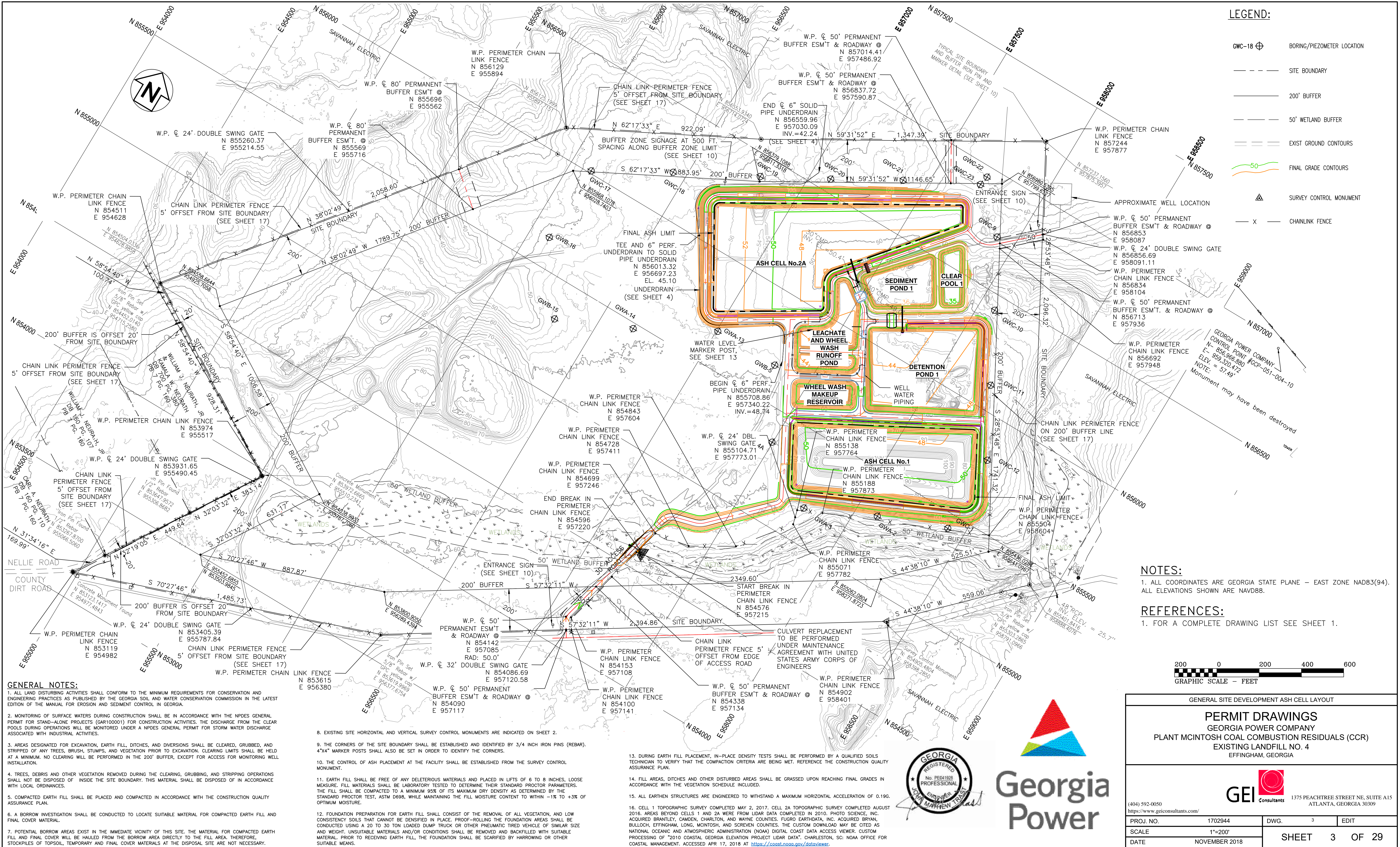
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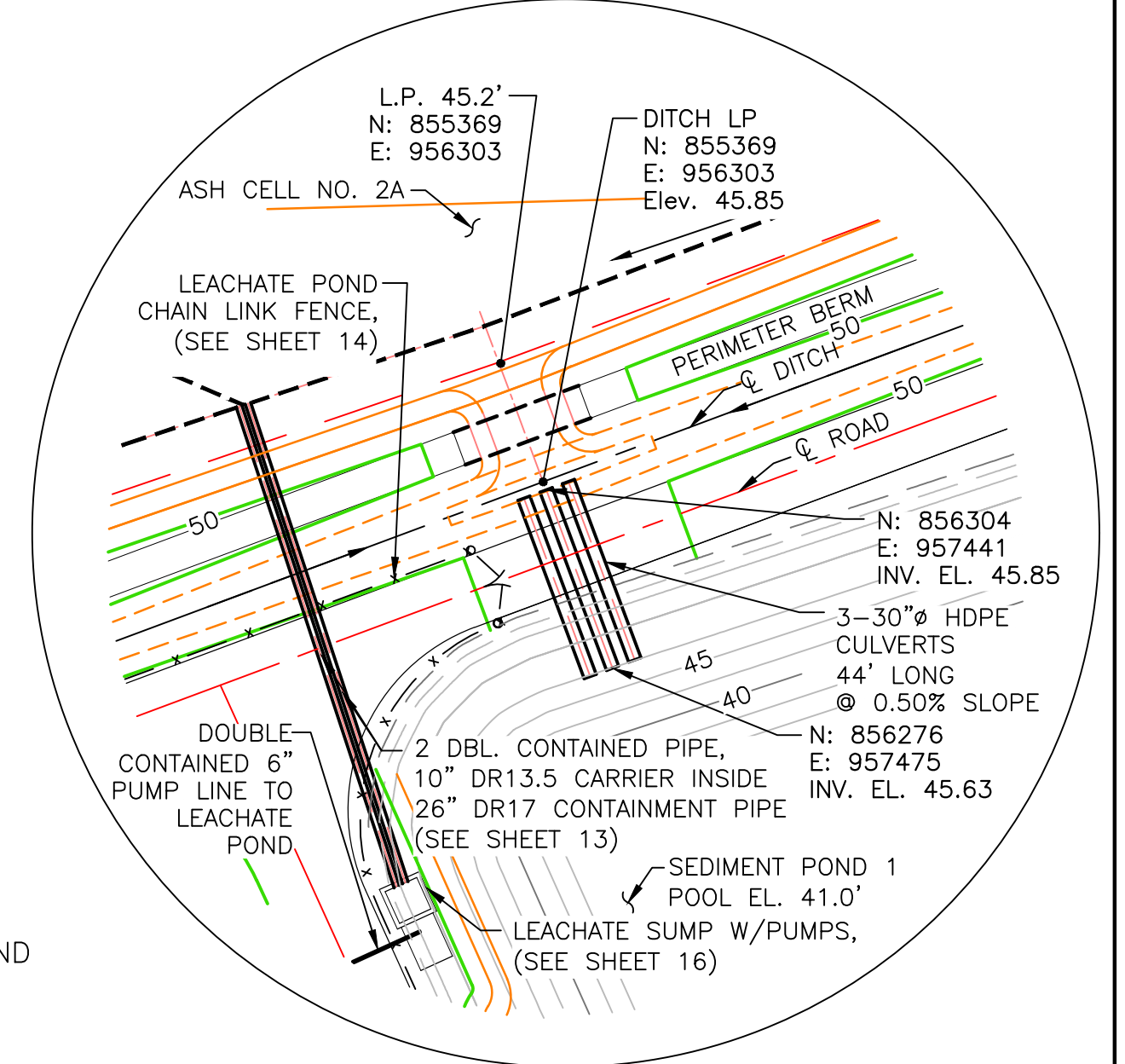
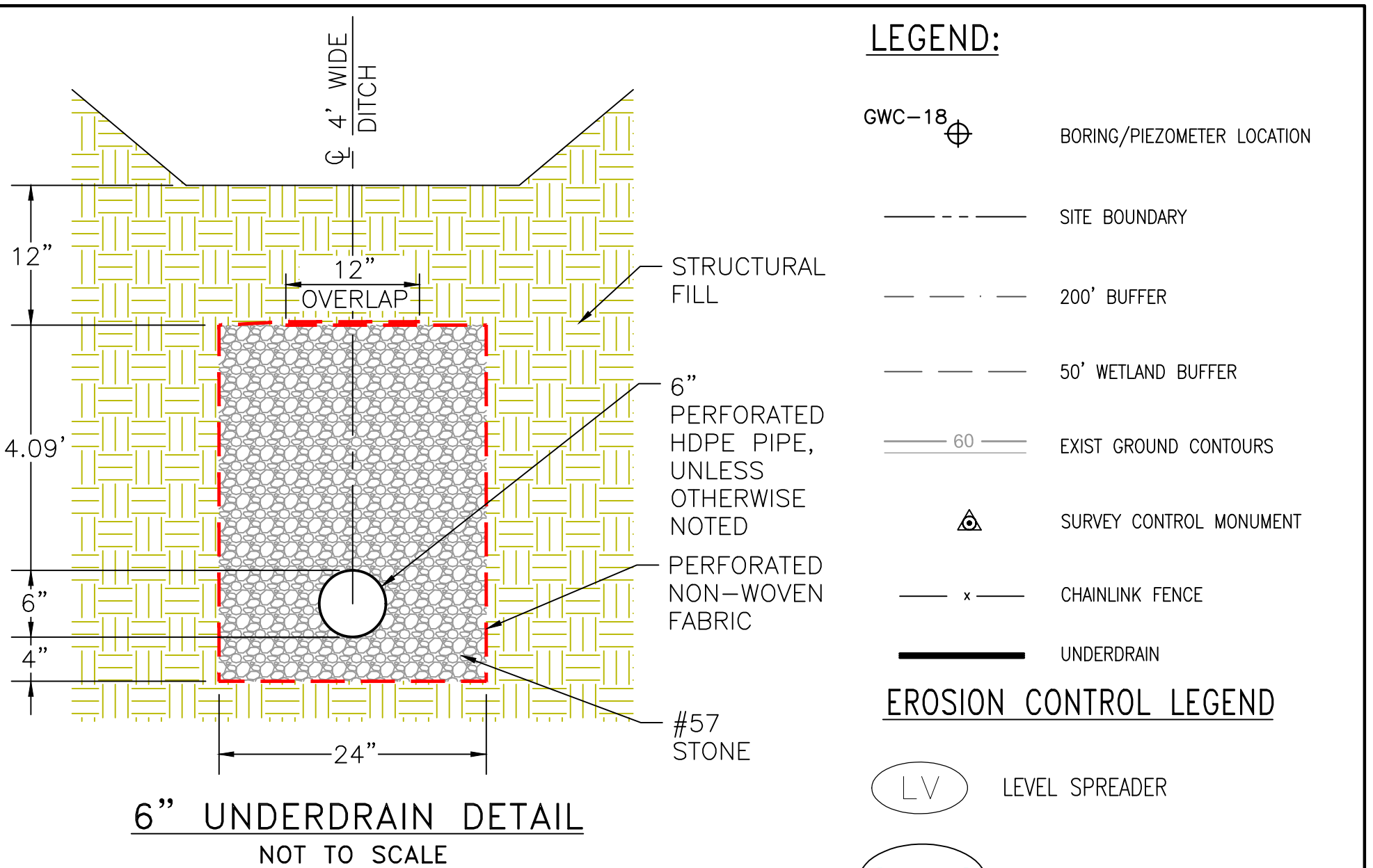
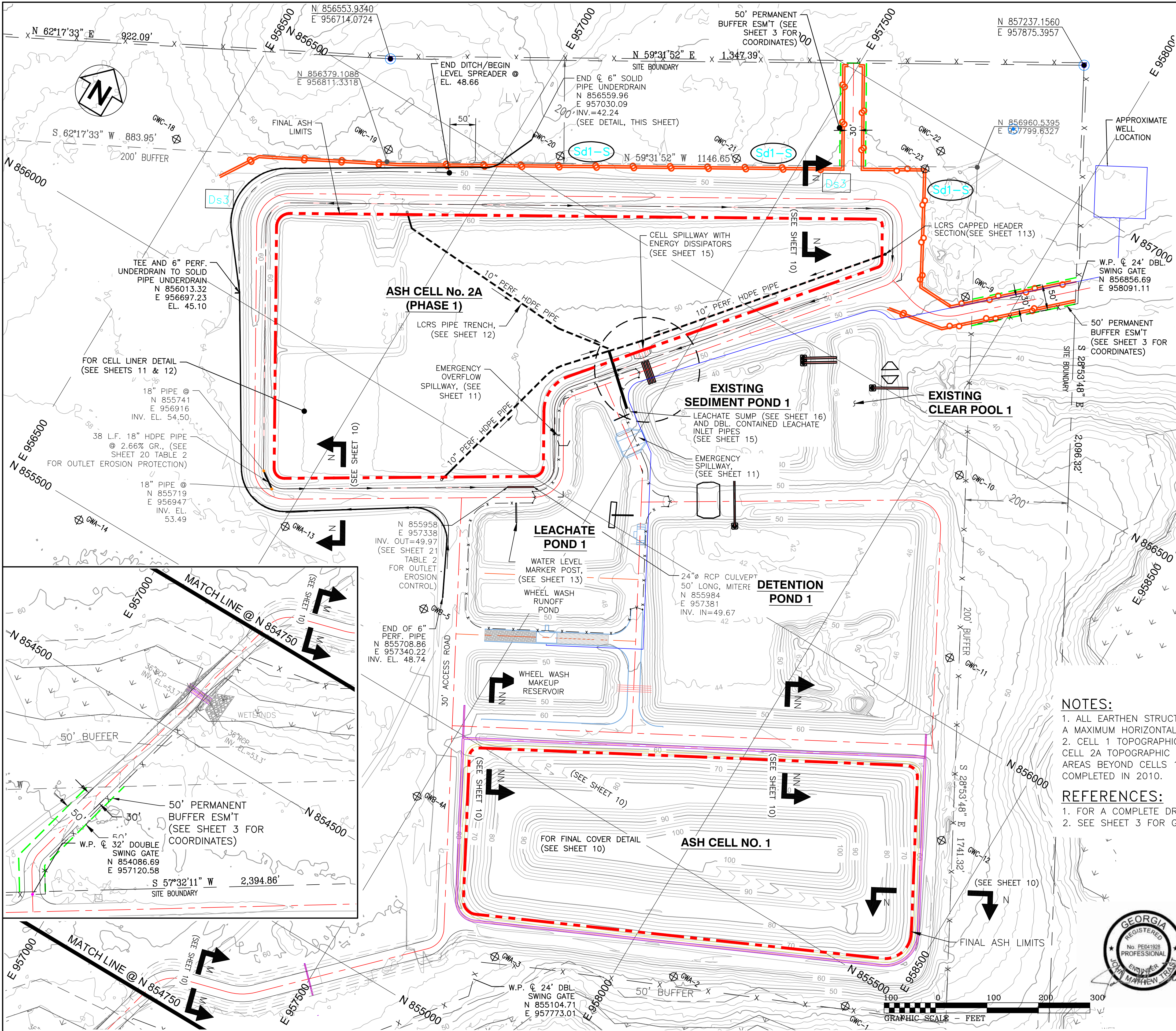
1. PROPERTY LINE IS APPROXIMATE.
2. GRID IS STATE PLANE GRID, NAD83, EAST ZONE. (APPROXIMATE)
3. AERIAL WAS DEVELOPED FROM 2017 NAIP USDA-FSA-APFO AERIAL PHOTOGRAPHY.
4. GEORGIA POWER COMPANY PROPERTY LINE DATA OBTAINED FROM ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, 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 3 FOR GENERAL NOTES AND REFERENCES.



INDEX AND LEGEND		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
<div><div><div>(404) 592-0050 https://www.geiconsultants.com/</div><div>PROJ. NO. 1702944</div><div>SCALE NONE</div><div>DATE NOVEMBER 2018</div></div><div><div><div>GEI Consultants</div><div>1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309</div></div><div>DWG. 1</div><div>EDIT</div></div></div>		
SHEET 1		OF 29








NOTES:

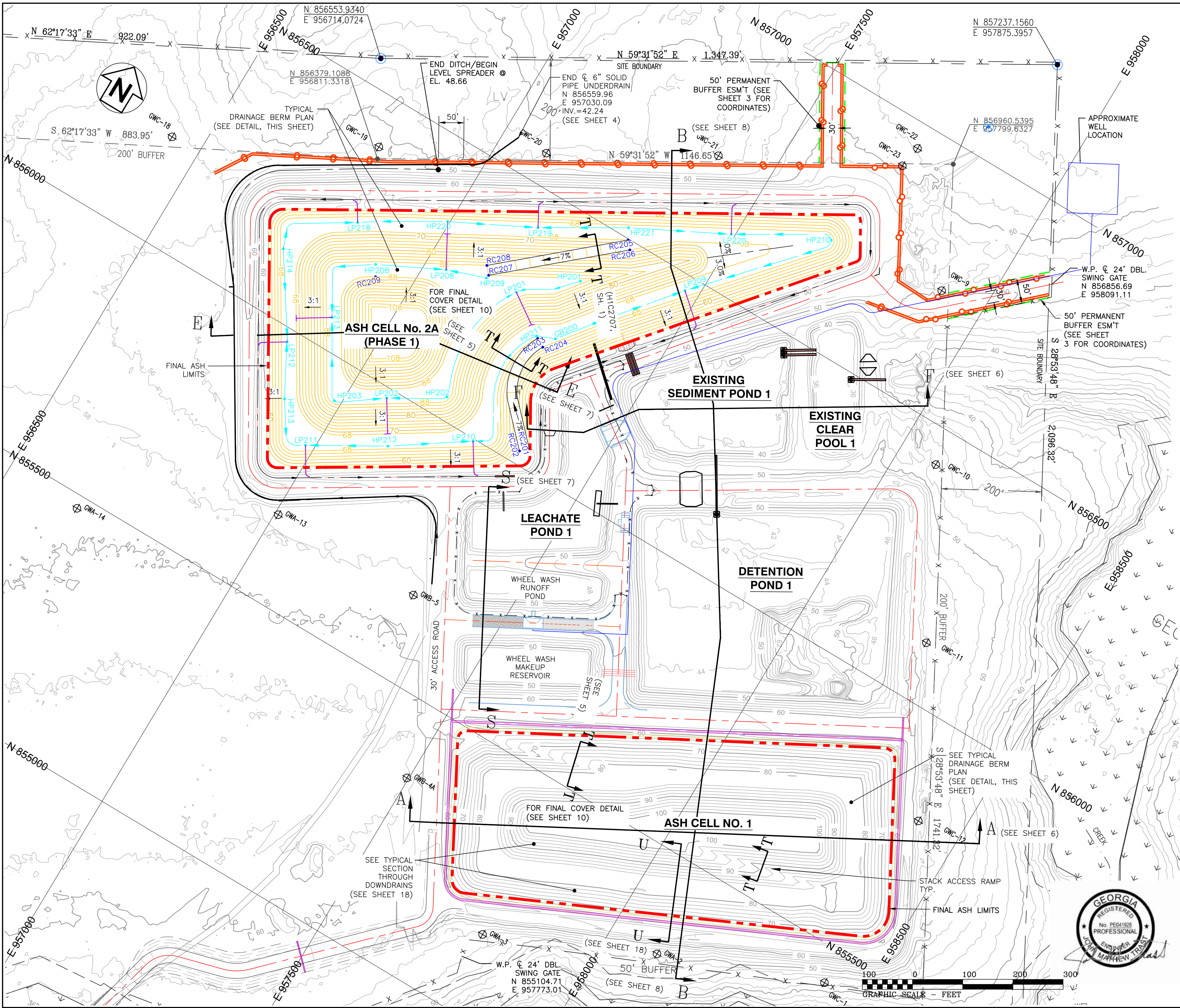
1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.19g.
2. CELL 1 TOPOGRAPHIC SURVEY COMPLETED MAY 2, 2017.
3. CELL 2A TOPOGRAPHIC SURVEY COMPLETED AUGUST 2016.
4. AREAS BEYOND CELLS 1 AND 2A WERE FROM LIDAR DATA COMPLETED IN 2010.

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



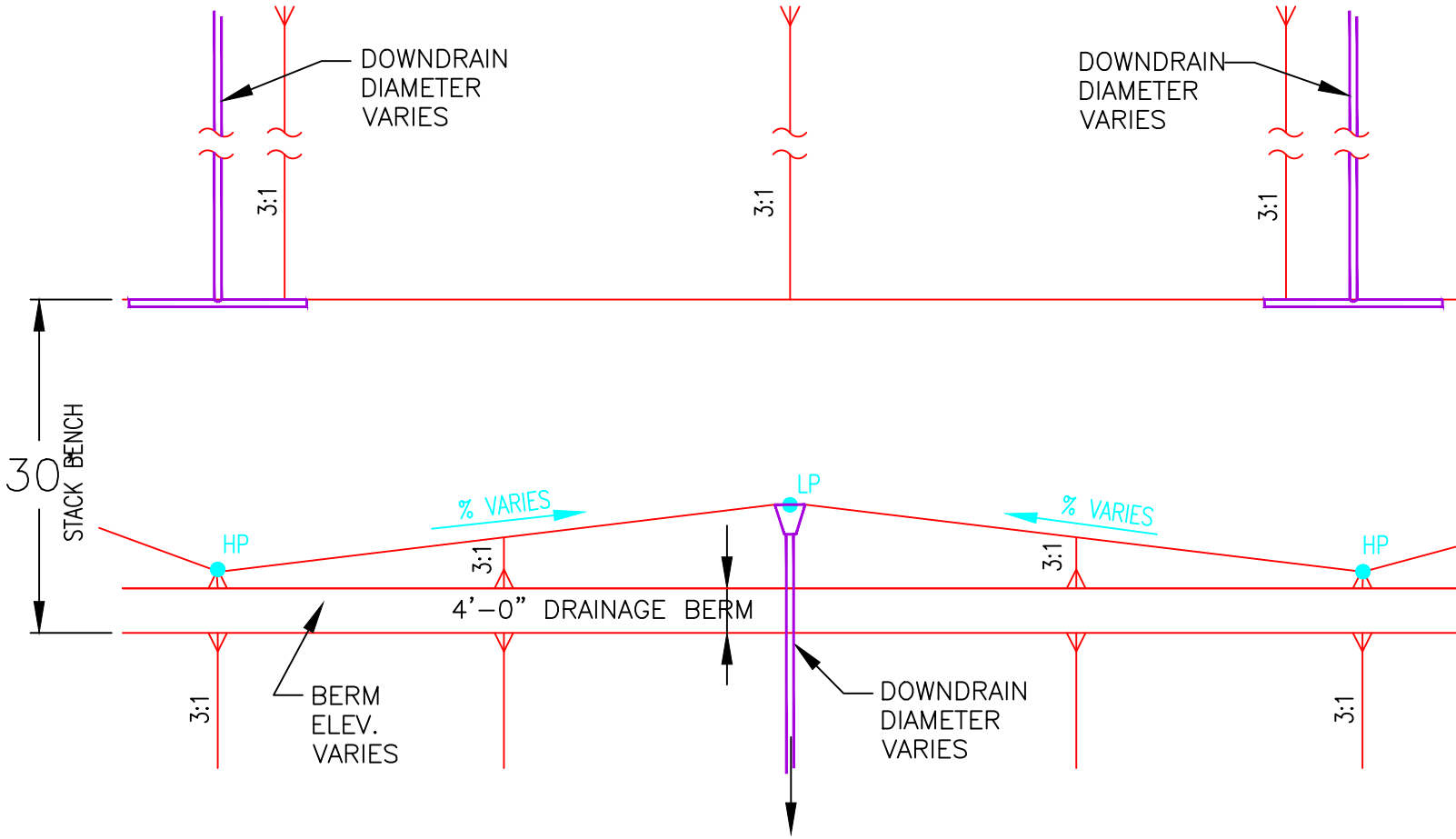
CELL 2A SITE DEVELOPMENT PLAN		
PERMIT DRAWINGS		
GEORGIA POWER COMPANY		
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)		
EXISTING LANDFILL NO. 4		
EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/	PROJ. NO. 1702944	DWG. 4
SCALE 1"=100'	DATE NOVEMBER 2018	EDIT
SHEET 4 OF 29		



CELL 2 - HIGH POINTS				LOW POINTS & GRADE BREAKS			
High Point	Northing	Easting	Elev.	Low Point	Northing	Easting	Elev.
HP201	856378.40	957283.00	87.5	LP201	856293.98	957185.10	85.5
HP202	856043.82	957174.07	87.5	LP202	855980.47	957072.31	85.5
HP203	855922.05	956985.86	87.5	LP203	855811.19	956799.89	85.5
HP208	856197.14	956916.52	87.5	LP204	855667.45	956531.78	85.5
HP209	856287.44	957119.29	87.5	LP205	855681.08	956319.78	85.5
HP210	856705.59	957669.26	87.5	LP206	855870.52	956408.17	85.5
HP211	856240.11	957264.57	87.5	LP207	856078.34	956738.78	85.5
HP212	855899.47	957123.84	87.5	LP208	856260.13	957042.23	85.5
HP213	855874.03	956898.93	87.5	LP209	856469.63	957471.39	85.5
HP214	856128.86	956742.98	87.5	LP210	855995.69	957263.90	85.5
HP220	856344.05	956995.60	87.5	LP211	855816.50	956982.25	85.5
HP221	856519.00	957310.47	87.5	LP212	855973.98	956844.79	85.5
				LP213	856061.87	956896.52	85.5
				LP218	856250.07	956842.87	85.5
				LP219	856426.28	957155.95	85.5
				LP220	856613.28	957492.50	85.5

CELL 2 - STACK ACCESS RAMPS			
Ramp Corner	Northing	Easting	Elev.
RC201	856039.98	957367.73	54.0
RC202	856026.06	957353.38	54.0
RC203	856236.94	957269.13	68.0
RC204	856227.21	957286.60	68.0
RC205	856497.58	957322.37	68.0
RC206	856482.54	957335.54	68.0
RC207	856294.41	957120.50	88.0
RC208	856309.46	957107.33	88.0


- LEGEND:**
- DOWNDRAIN (FOR DIAMETER SEE TABLE 3, SHEET 18)
 - SURFACE RUNOFF DIRECTION
 - HP423 HIGH POINT
 - LP423 LOW POINT
 - GB424 GRADE BREAK
 - RC211 ACCESS RAMP



TYPICAL DRAINAGE BERM PLAN ON 30' STACK BENCH

- NOTES:**
- ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.19g.
 - GRADE ELEVATIONS SHOWN ON THE DRAWINGS ARE THE FINISHED GRADE ELEVATIONS TO TOP OF CLAY LINER (CELLS AND LEACHATE PONDS), TO TOP OF GAB (ROADS), TO TOP OF 6" SOIL COVER (CELL STACKS), TO TOP OF CONCRETE (SPILLWAYS) OR STRUCTURAL FILL.
 - CELL 1 TOPOGRAPHIC SURVEY COMPLETED MAY 2, 2017. CELL 2A TOPOGRAPHIC SURVEY COMPLETED AUGUST 2016. AREAS BEYOND CELLS 1 AND 2A WERE FROM LIDAR DATA COMPLETED IN 2010.

- REFERENCES:**
- FOR A COMPLETE DRAWING LIST SEE SHEET 1.
 - SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



Georgia Power

FINAL GRADING PLAN

PERMIT DRAWINGS

GEORGIA POWER COMPANY

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EXISTING LANDFILL NO. 4

EFFINGHAM, GEORGIA

GEI Consultants

1375 PEACHTREE STREET NE, SUITE A15

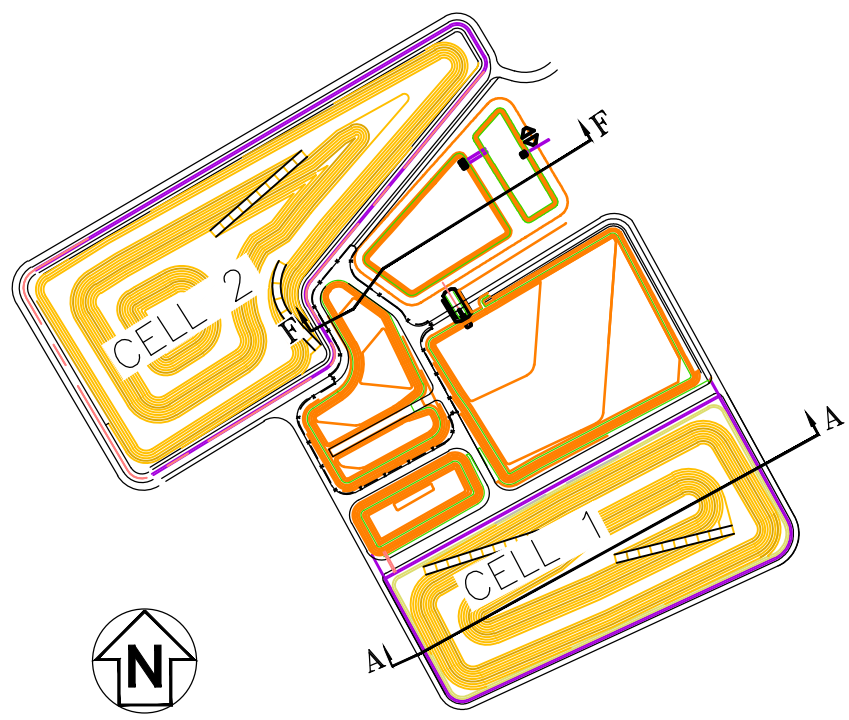
ATLANTA, GEORGIA 30309

(404) 592-0050

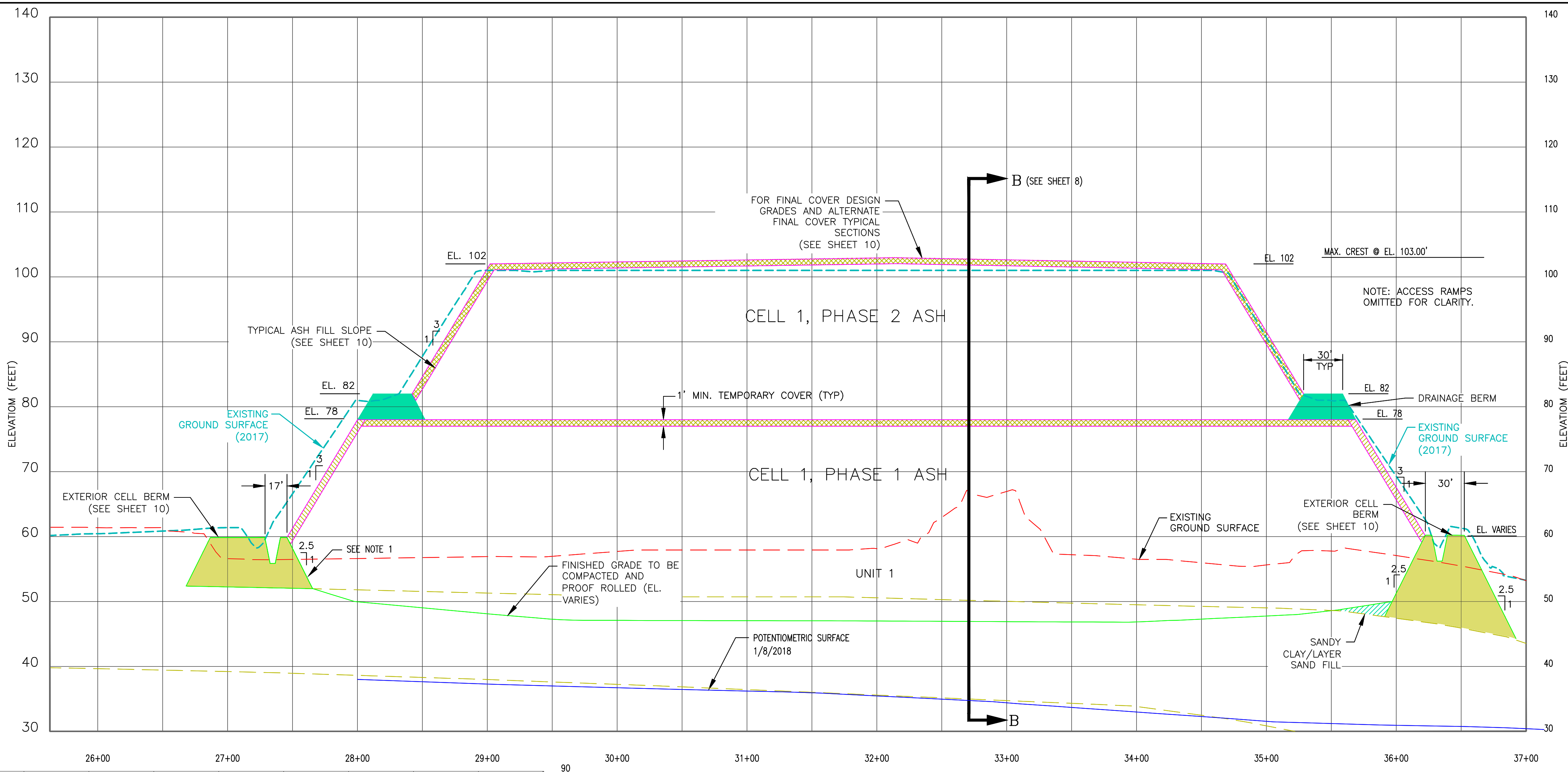
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PROJ. NO.	1702944	DWG.	5	EDIT
SCALE	1"=100'			
DATE	NOVEMBER 2018			

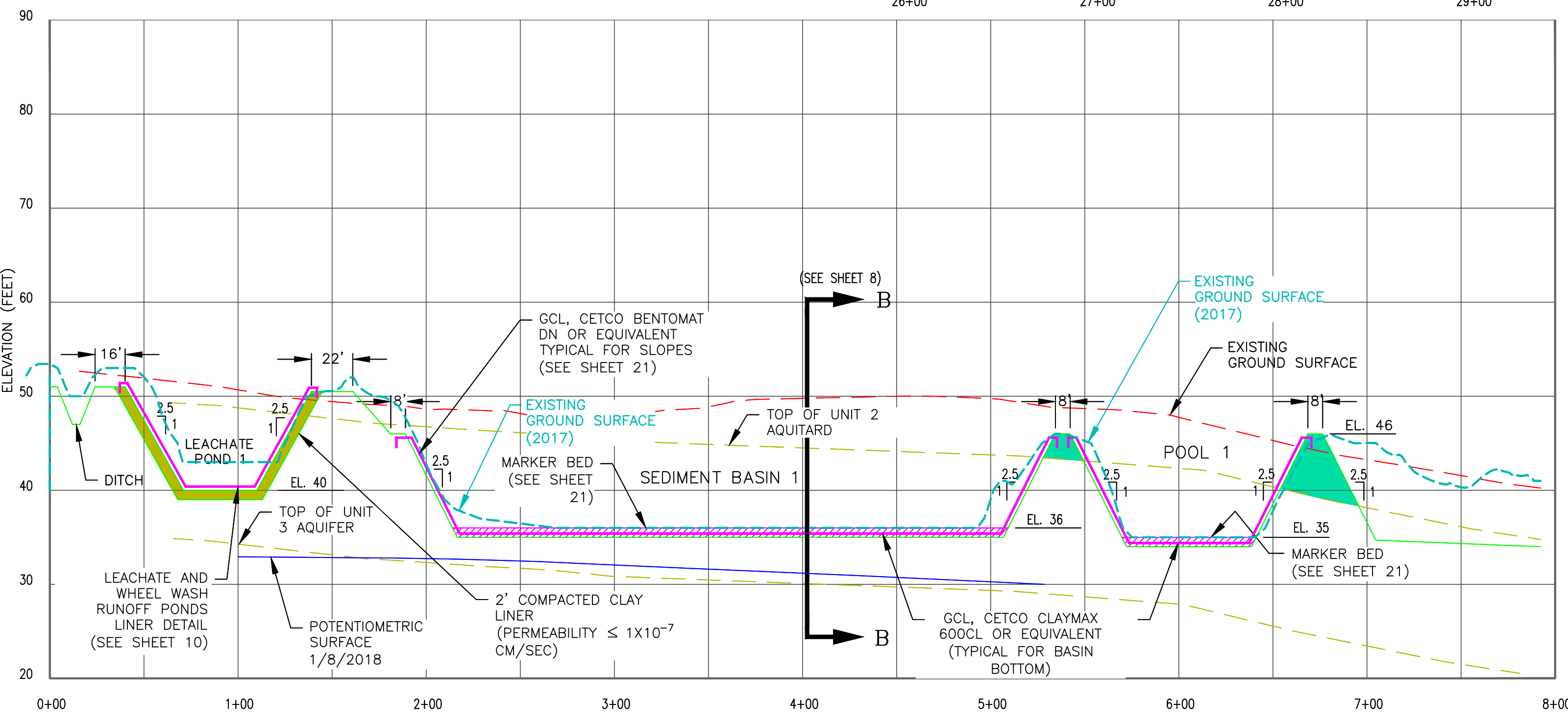
SHEET 5 OF 29



KEY PLAN
NOT TO SCALE



LONGITUDINAL SECTION A-A
SCALE H: 1"=50' V: 1"=10'



LONGITUDINAL SECTION F-F
SCALE H: 1"=50' V: 1"=10'


NOTES:

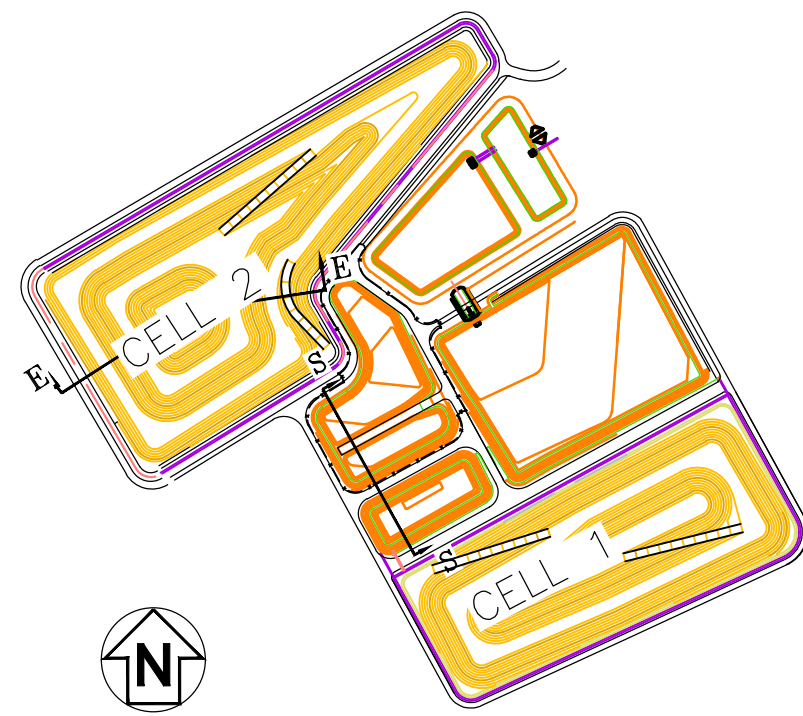
1. ALL PERIMETER DITCHES AND BERMS SHALL BE CONSTRUCTED OF APPROVED SANDY CLAY/CLAYEY SAND FILL OR NATURAL, IN-PLACE SOILS.
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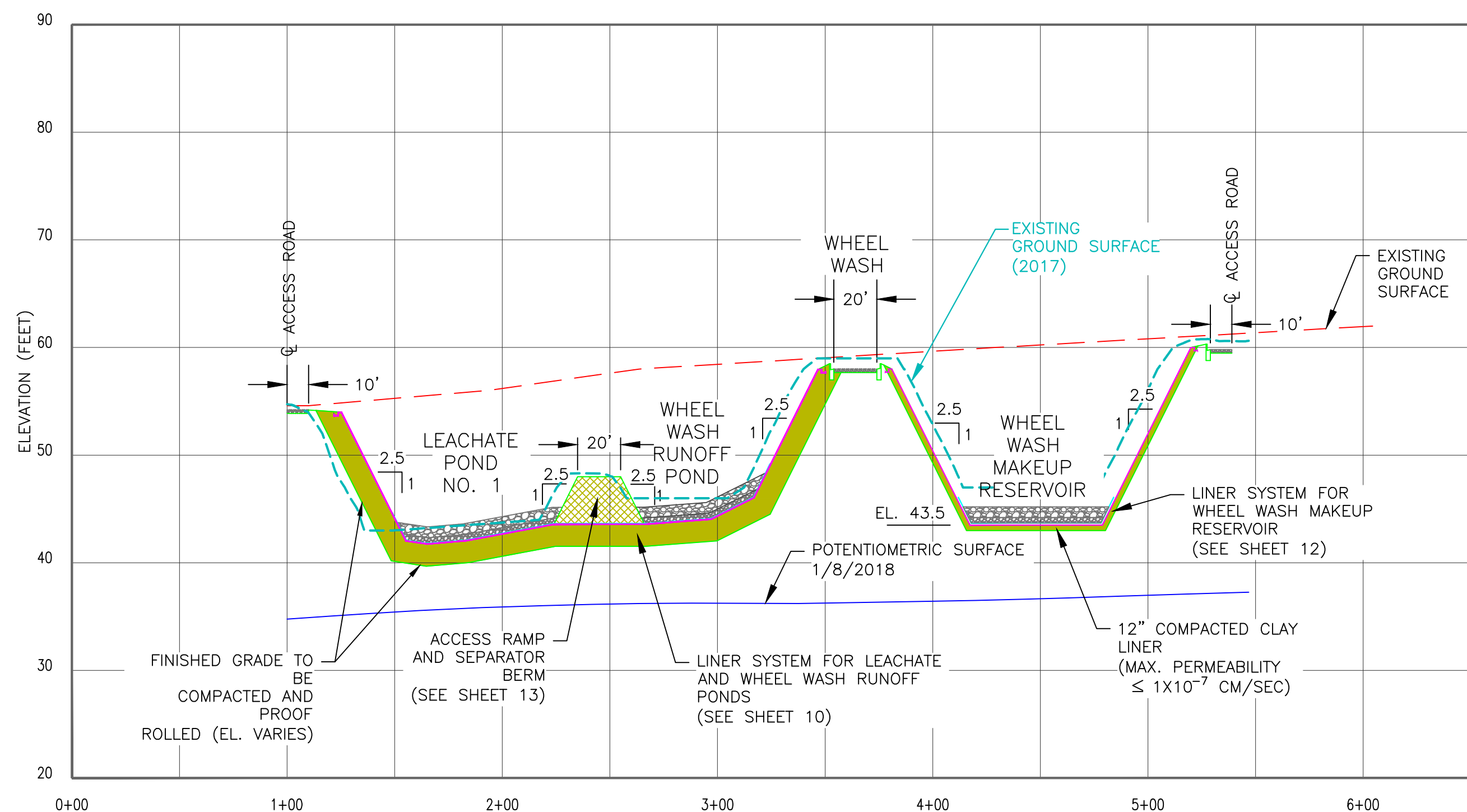
1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



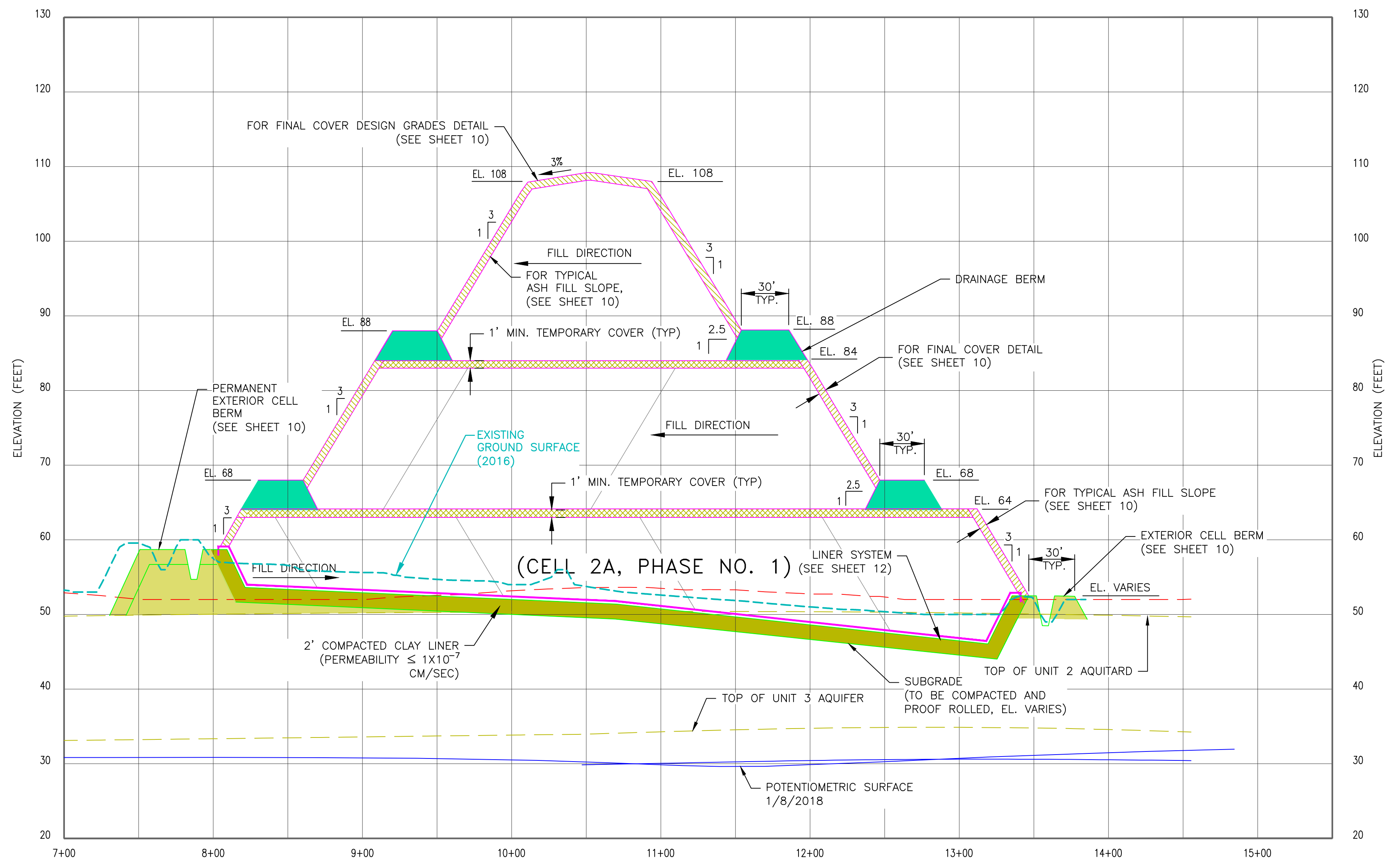
LONGITUDINAL & TRAVERSE SECTIONS		
PERMIT DRAWINGS		
GEORGIA POWER COMPANY		
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)		
EXISTING LANDFILL NO. 4		
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(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 6	EDIT
SCALE SEE ABOVE	SHEET 6 OF 29	
DATE NOVEMBER 2018		



KEY PLAN
NOT TO SCALE



LONGITUDINAL SECTION S-S
SCALE H: 1"=50' V: 1"=10'



LONGITUDINAL SECTION E-E
SCALE H: 1"=50' V: 1"=10'

NOTES:

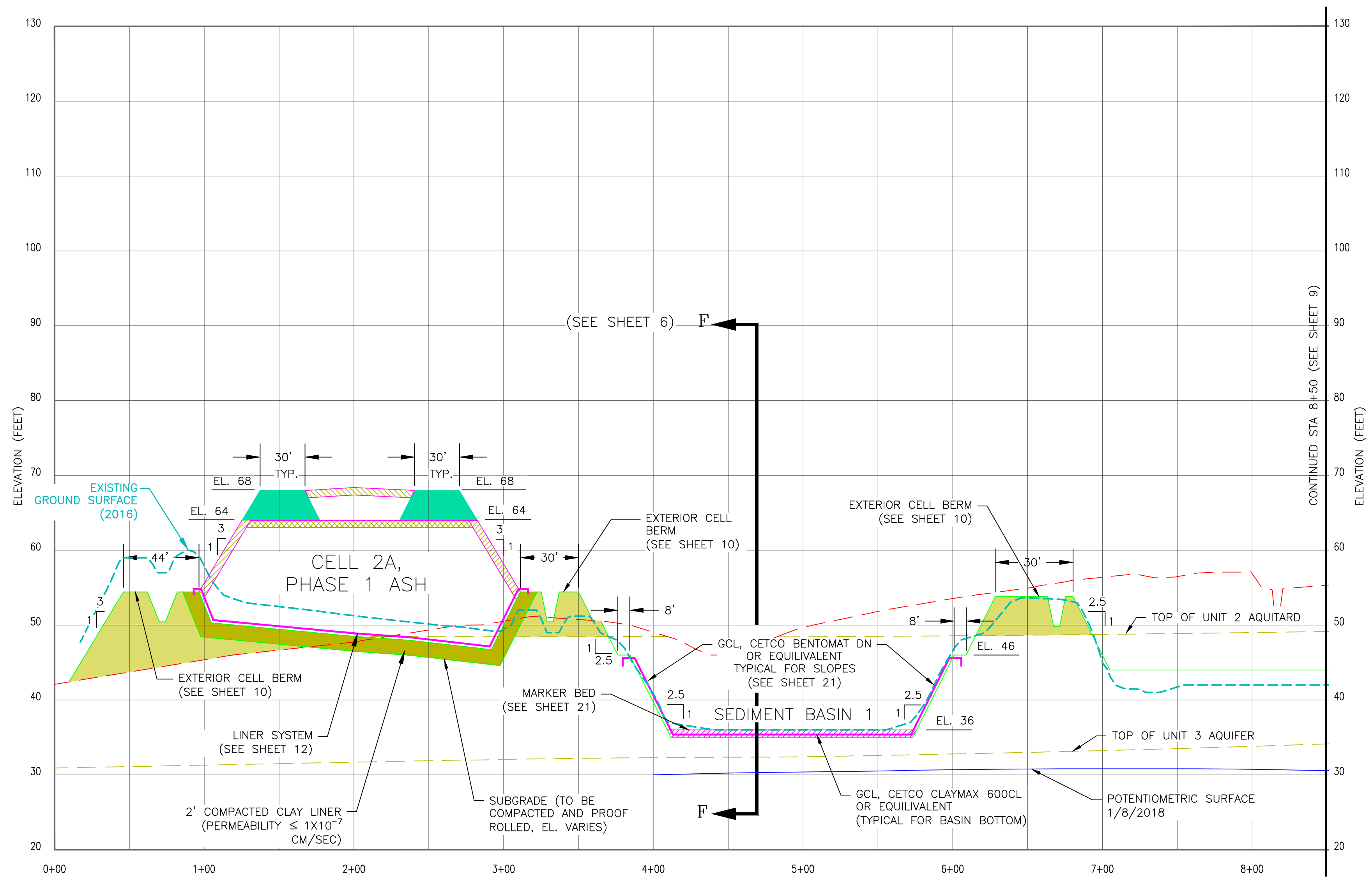
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2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



LONGITUDINAL & TRAVERSE SECTIONS		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 7	EDIT
SCALE SEE ABOVE	SHEET 7 OF 29	
DATE NOVEMBER 2018		



TRANSVERSE SECTION B-B

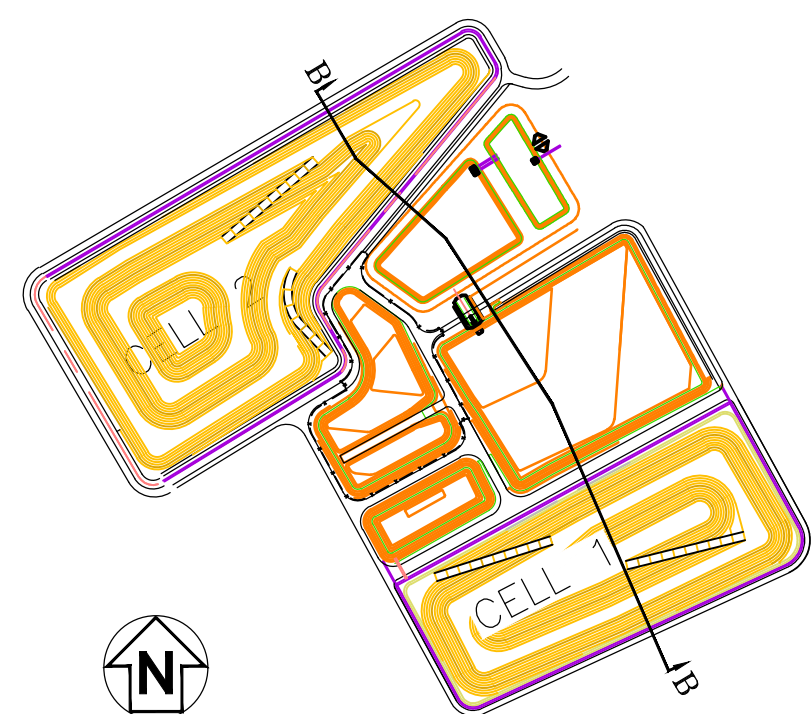
SCALE H: 1"=50' V: 1"=10'

NOTES:

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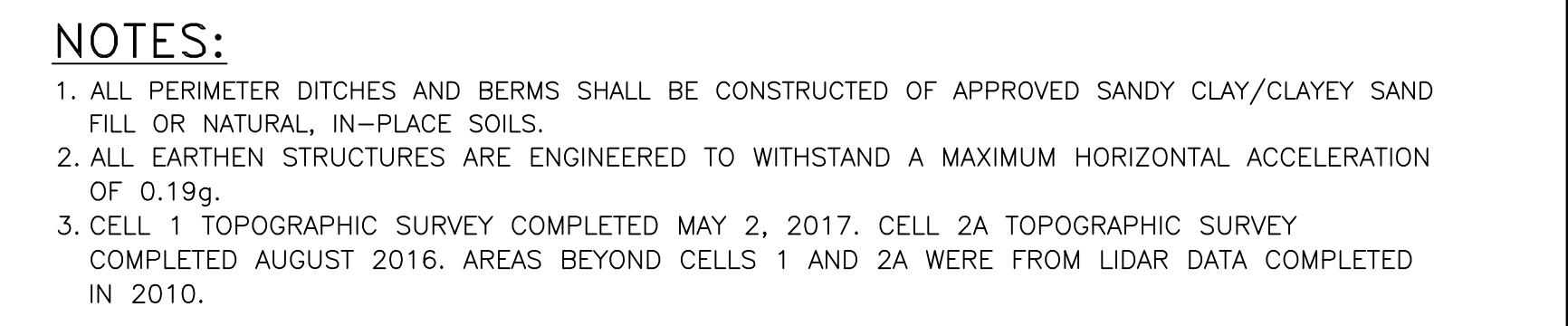
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2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



KEY PLAN
NOT TO SCALE



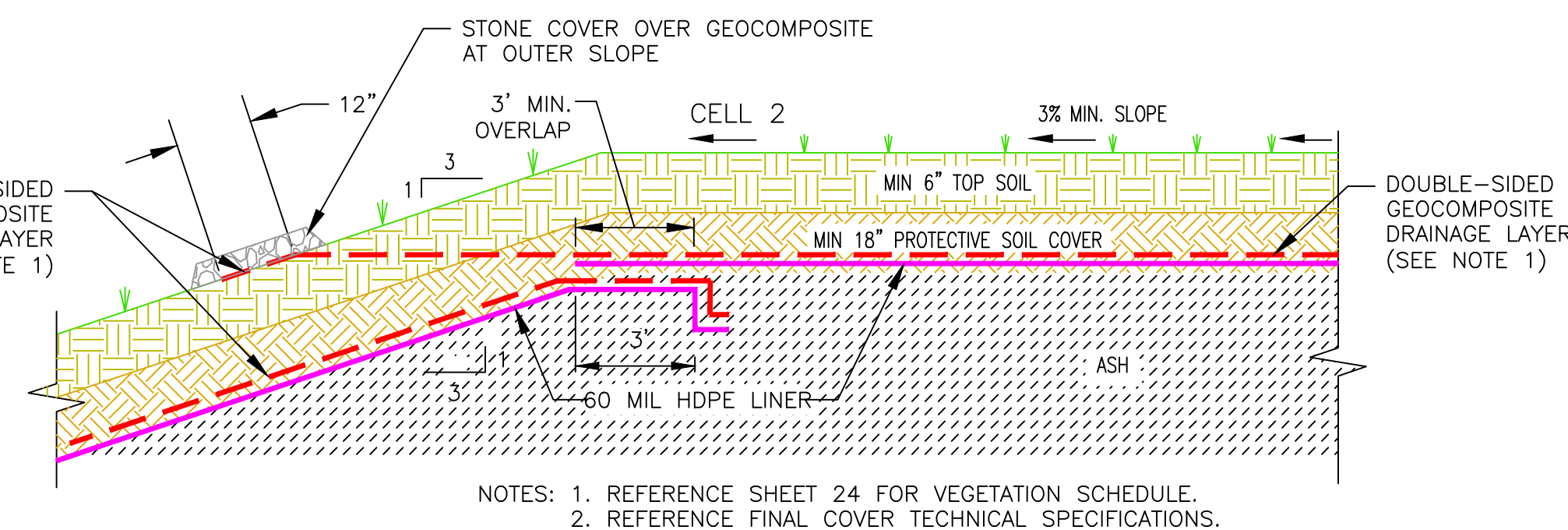
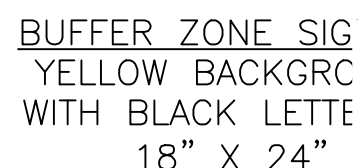
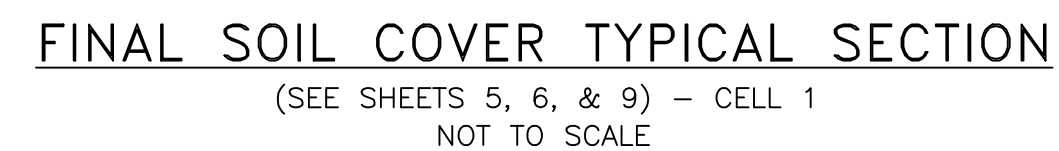
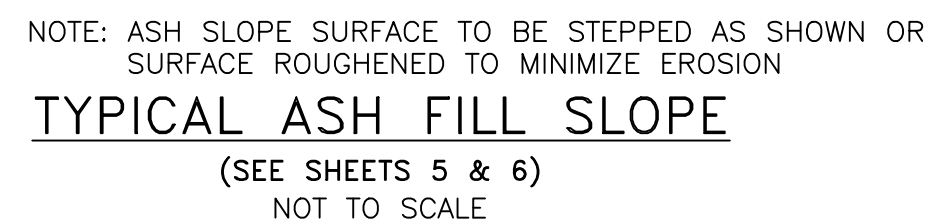
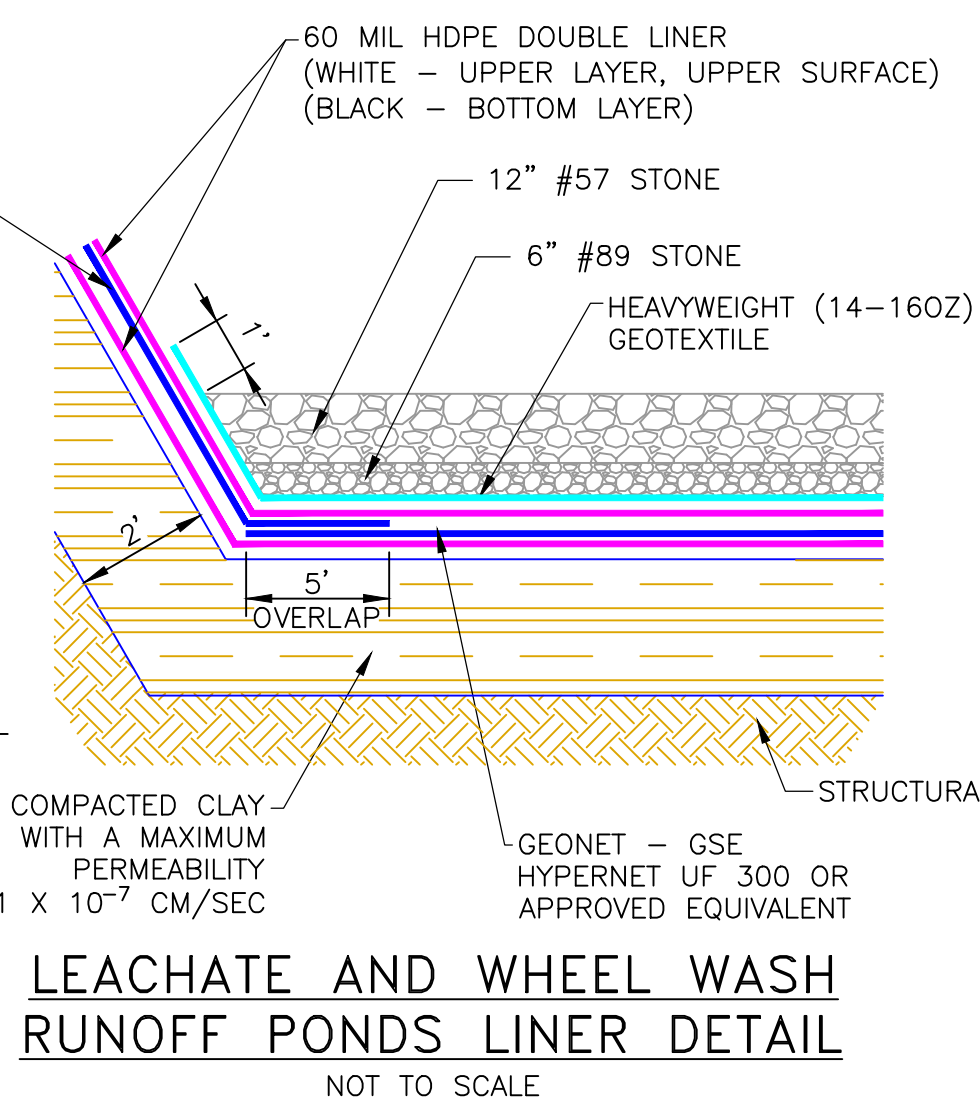
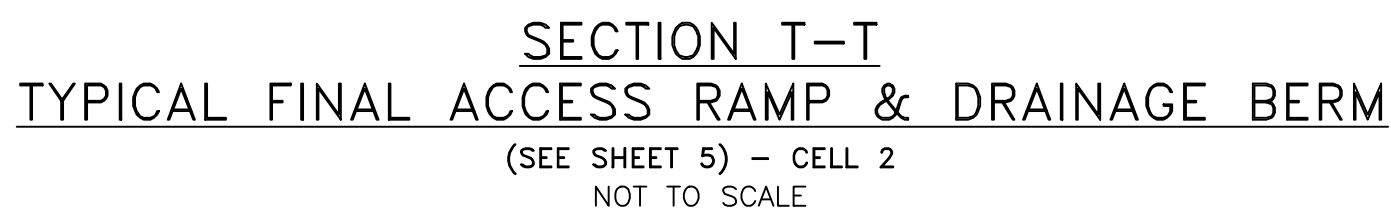
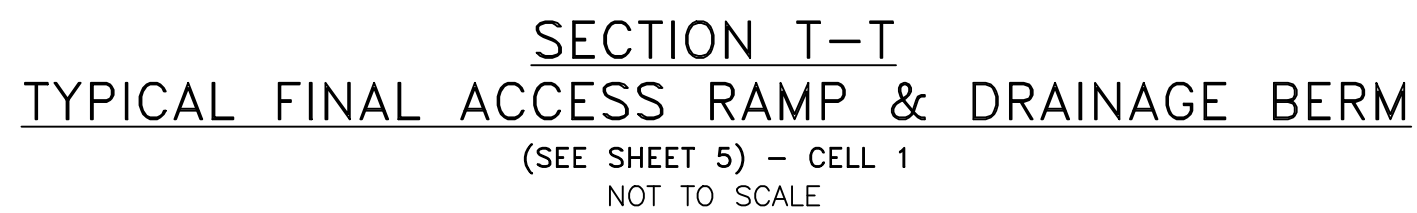
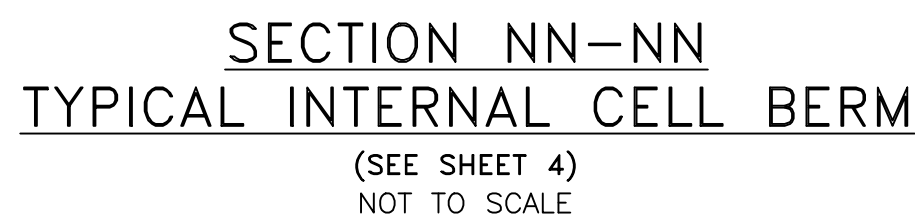
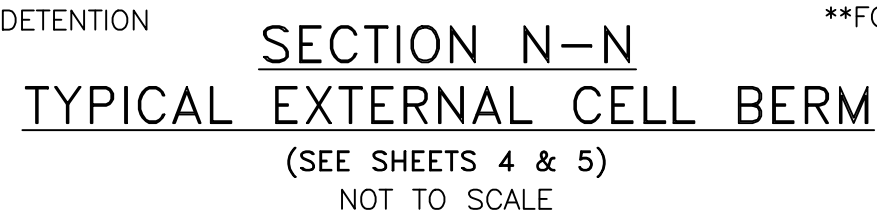
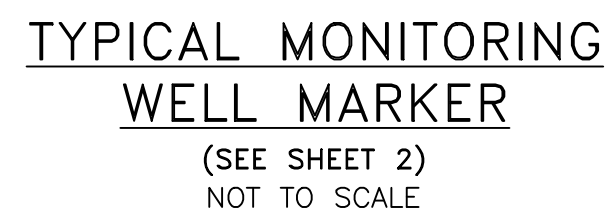
LONGITUDINAL & TRAVERSE SECTIONS		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
PROJ. NO.	1702944	DWG. 8
SCALE	SEE ABOVE	EDIT
DATE	NOVEMBER 2018	SHEET 8 OF 29




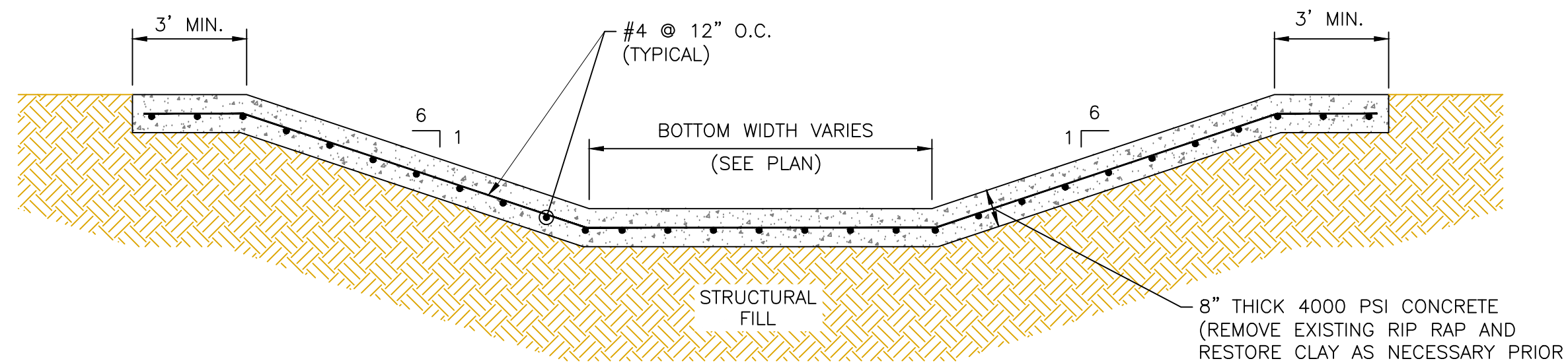
1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



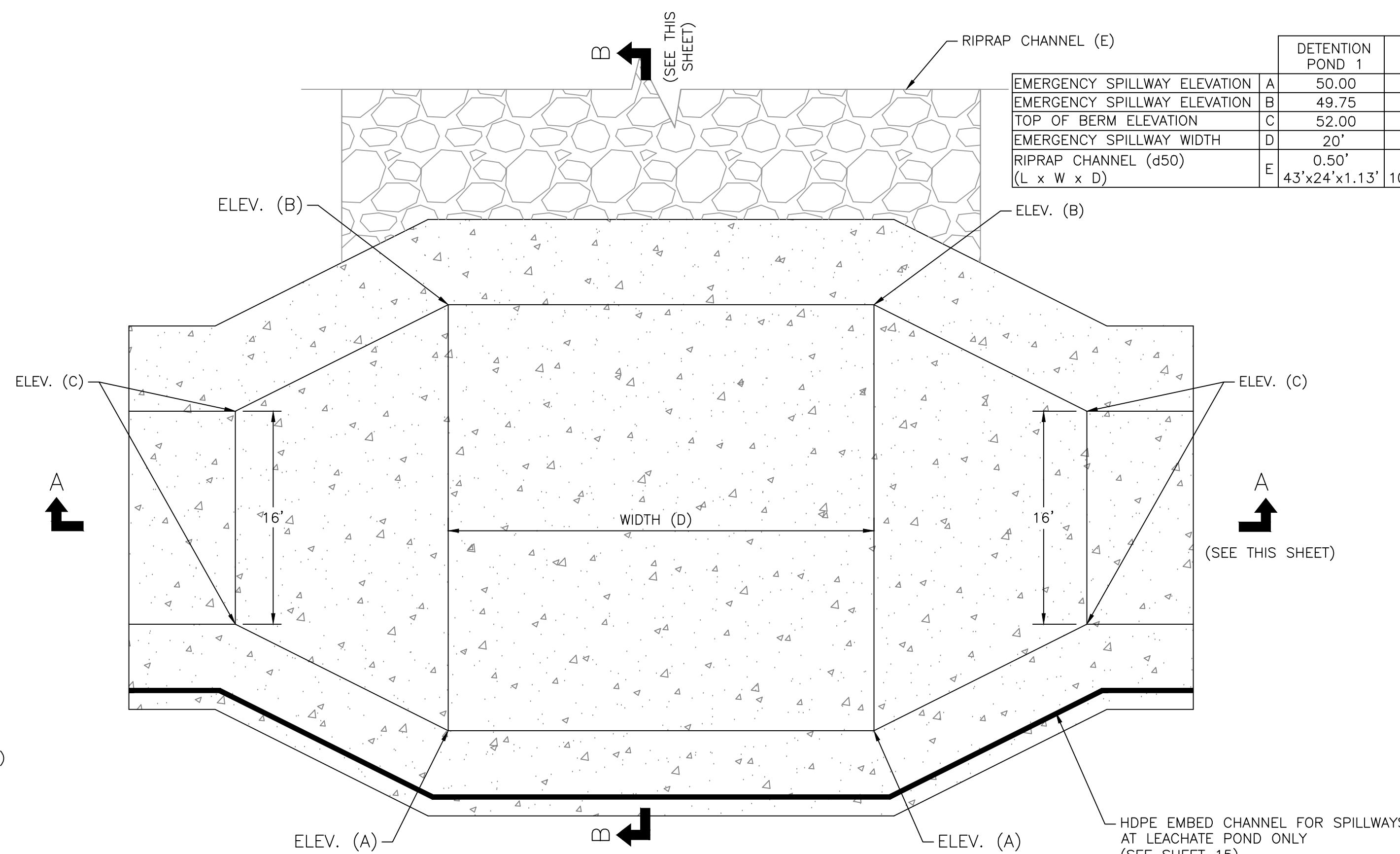
LONGITUDINAL & TRAVERSE SECTIONS			
<p align="center">PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA</p>			
<p>(404) 592-0050 https://www.geiconsultants.com/</p>			<p>1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309</p>
PROJ. NO.	1702944	DWG.	9
SCALE	SEE ABOVE	SHEET 9 OF 29	
DATE	NOVEMBER 2018		



<p>MISC. SECTIONS & DETAILS</p> <h1 style="margin: 0;">PERMIT DRAWINGS</h1> <p style="margin: 0;">GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA</p>		
		
(404) 592-0050 https://www.geiconsultants.com/		1375 PEACHTREE STREET NE, SUITE A1 ATLANTA, GEORGIA 30309
PROJ. NO.	1702944	DWG. 10
SCALE	NONE	EDIT
DATE	NOVEMBER 2018	SHEET 10 OF 29

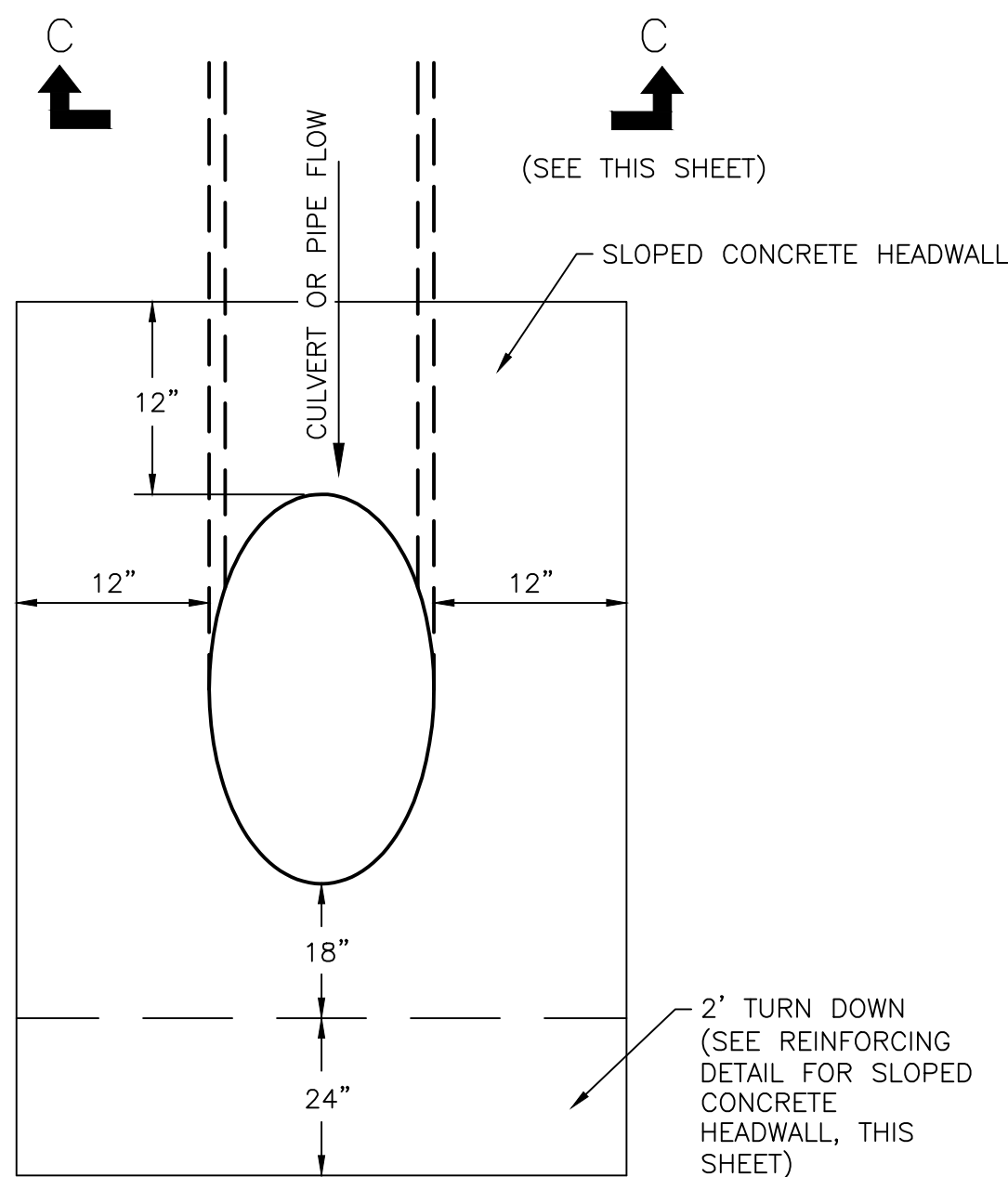


SECTION A-A
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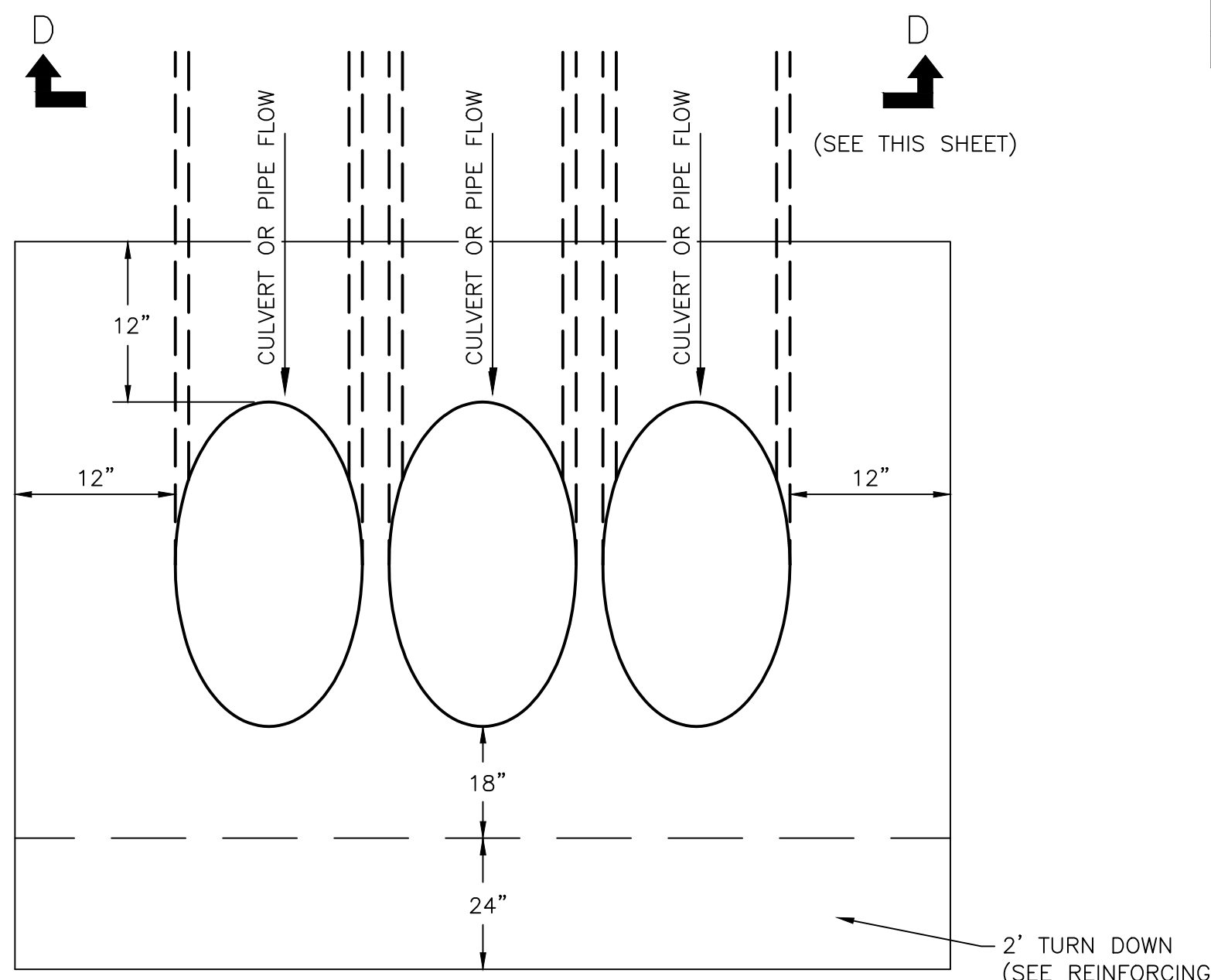


SPILLWAY DETAIL PLAN
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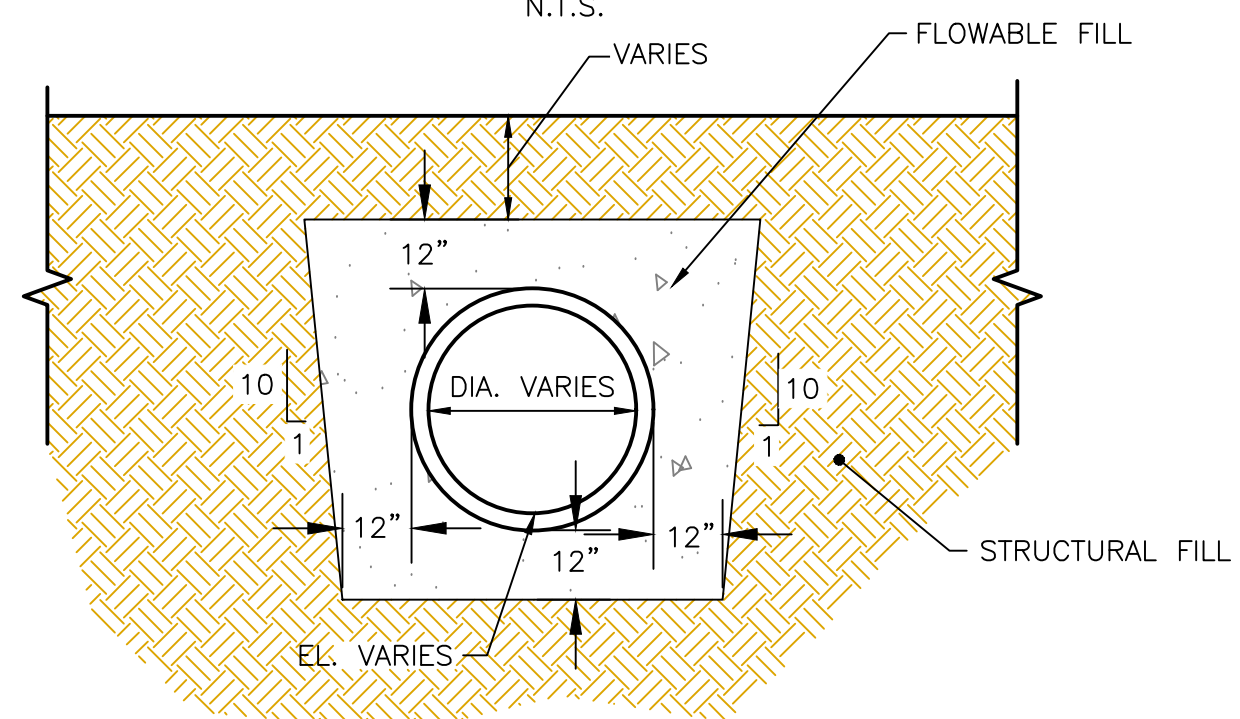
	DETENTION POND 1	CLEAR POOL 1	LEACHATE POND 1	SEDIMENT BASIN
EMERGENCY SPILLWAY ELEVATION	A 50.00	41.00	49.00	41.50
EMERGENCY SPILLWAY ELEVATION	B 49.75	40.75	48.75	41.25
TOP OF BERM ELEVATION	C 52.00	46.00	50.00	46.00
EMERGENCY SPILLWAY WIDTH	D 20'	20'	20'	20'
RIPRAP CHANNEL (d50)	E 0.50'	0.25'	0.25'	1.0'
(L x W x D)	43'x24'x1.13'	10'x24'x0.56'	4'x22'x0.56'	11'x24'x2.25'



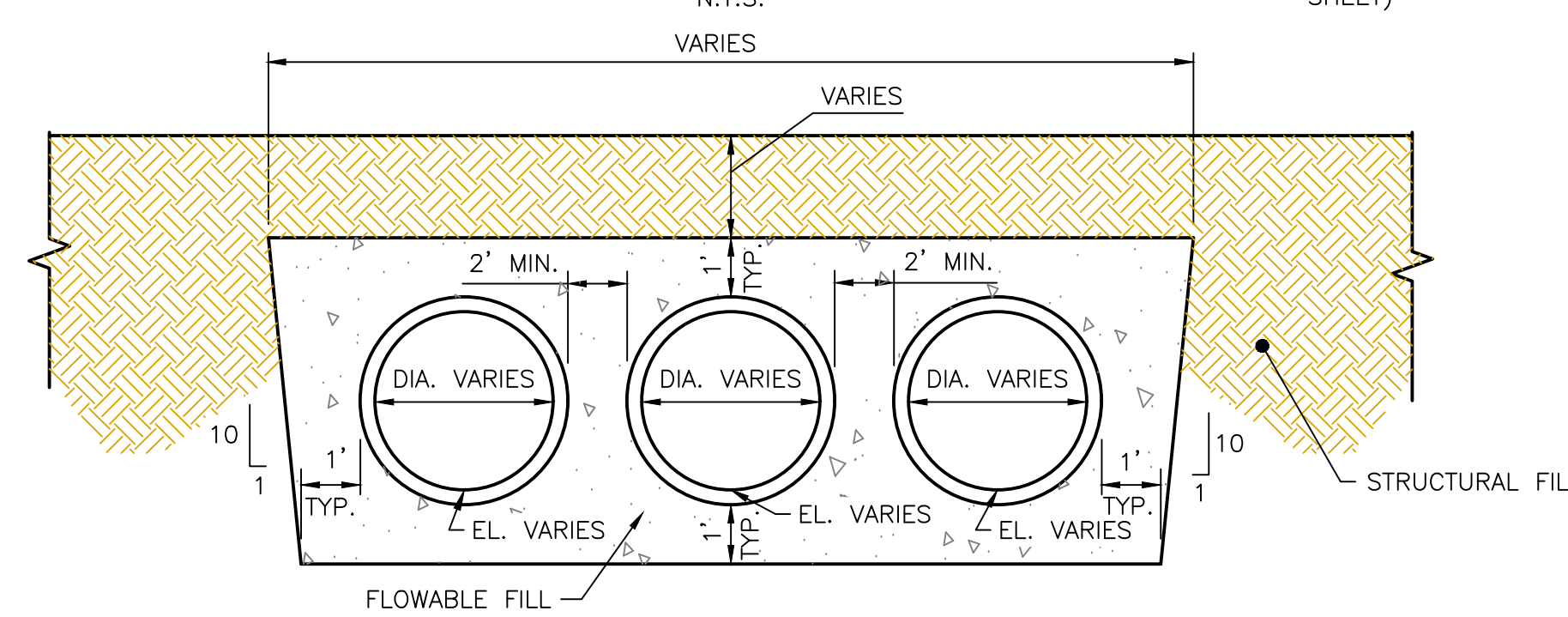
SINGLE PIPE CONCRETE HEADWALL PLAN
N.T.S.



MULTIPLE PIPE CONCRETE HEADWALL PLAN
N.T.S.

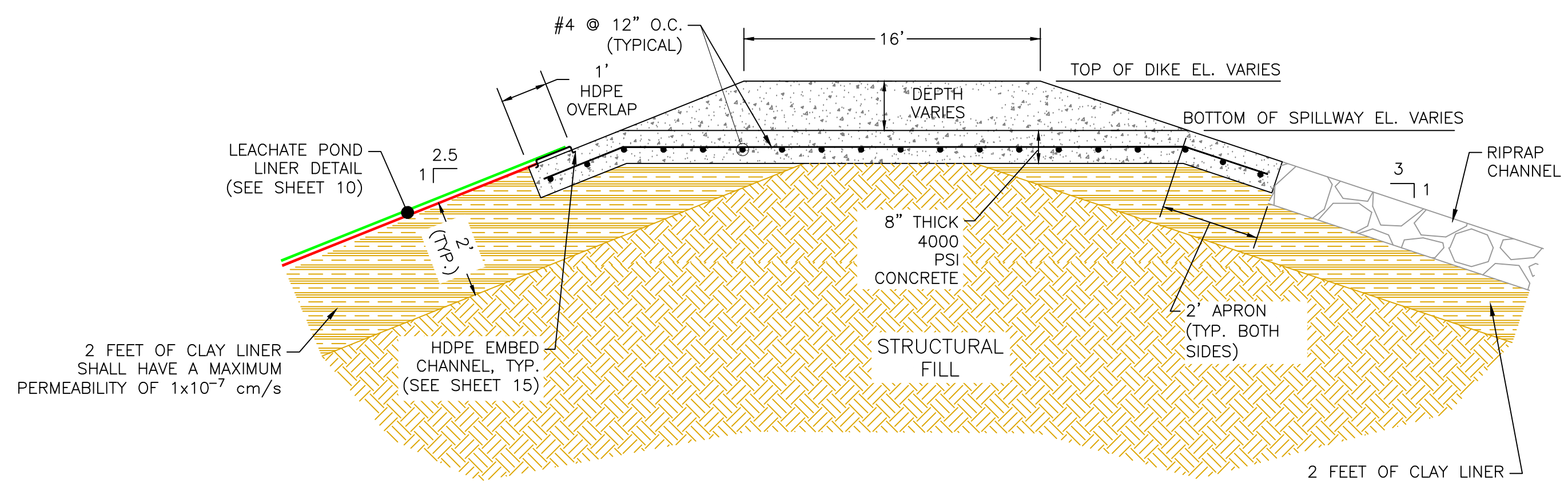


TYPICAL SINGLE PIPE SECTION C-C
N.T.S.



TYPICAL MULTIPLE PIPE SECTION D-D
N.T.S.

PIPE SECTIONS INSTALLED IN UNLINED PONDS
N.T.S.



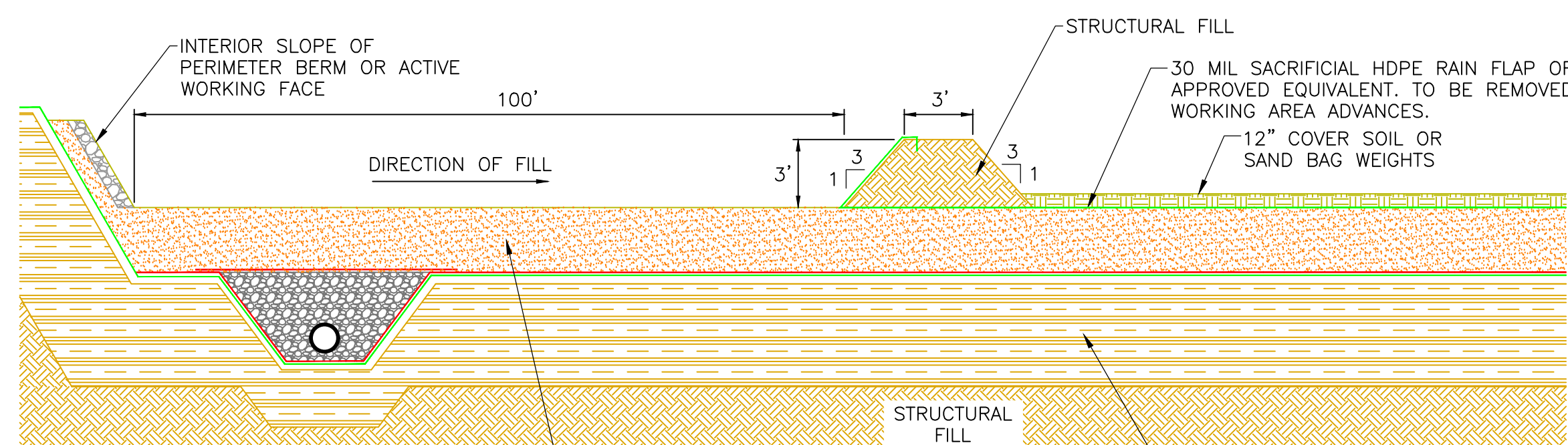
SECTION B-B
N.T.S.

REFERENCES:

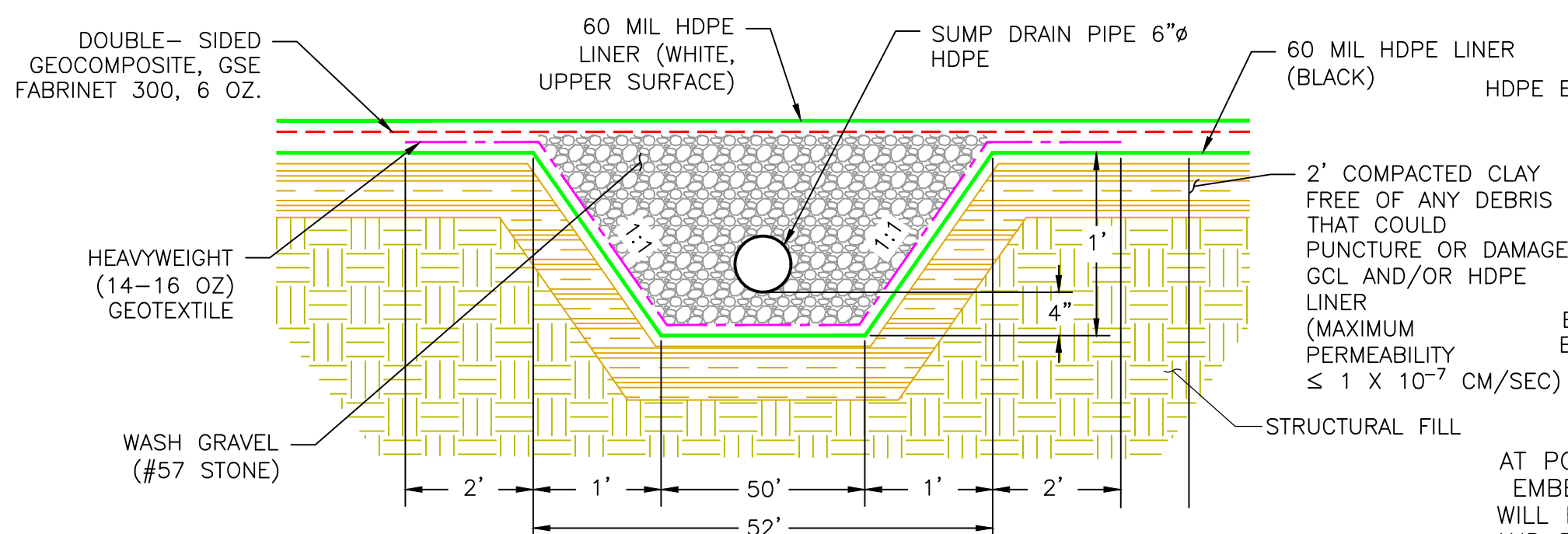
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
3. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



MISC. SECTIONS & DETAILS			
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA			
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309			
PROJ. NO.	1702944	DWG.	11
SCALE	NONE	SHEET	11 OF 29
DATE	NOVEMBER 2018		

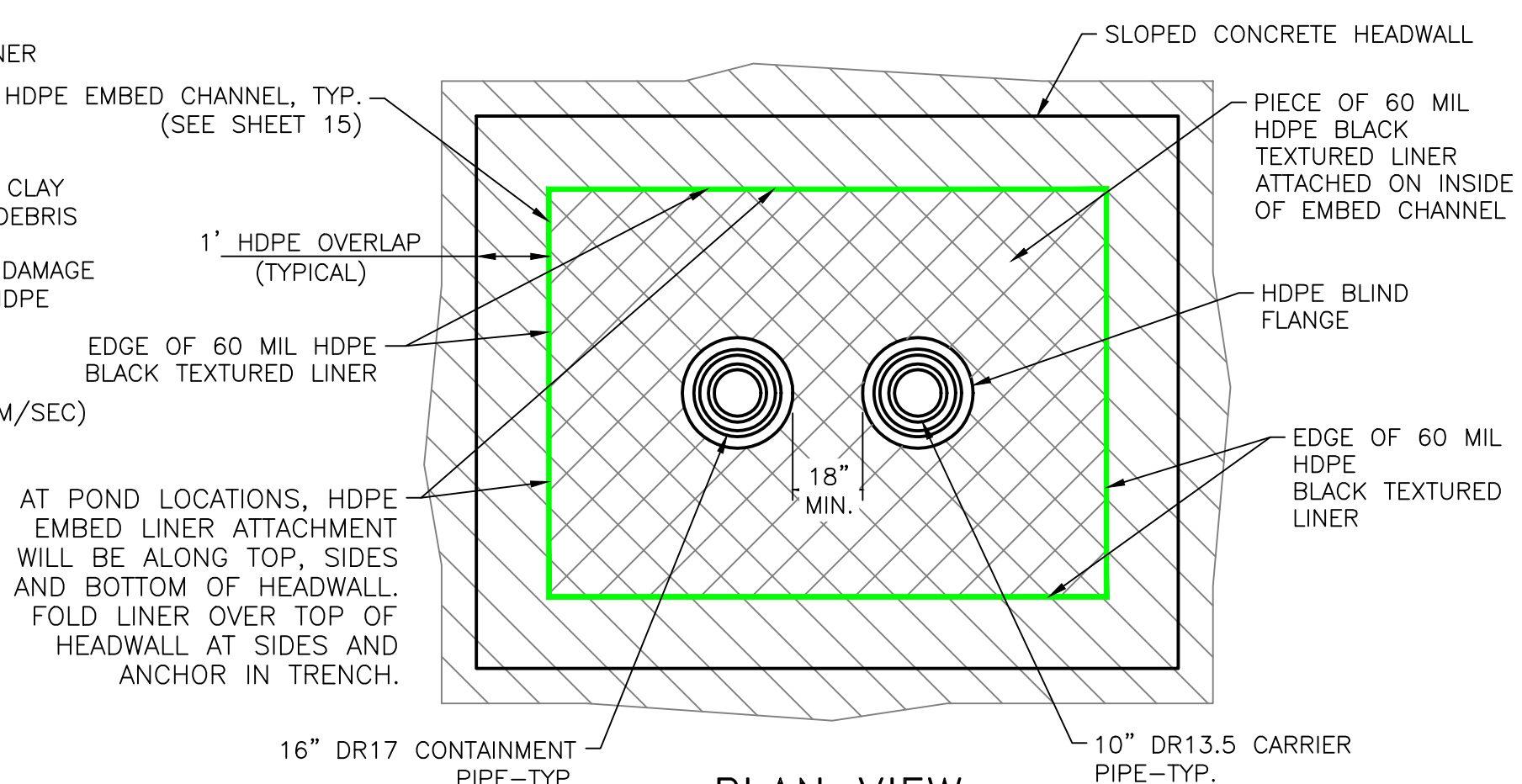


CELL FILL DETAIL
N.T.S.

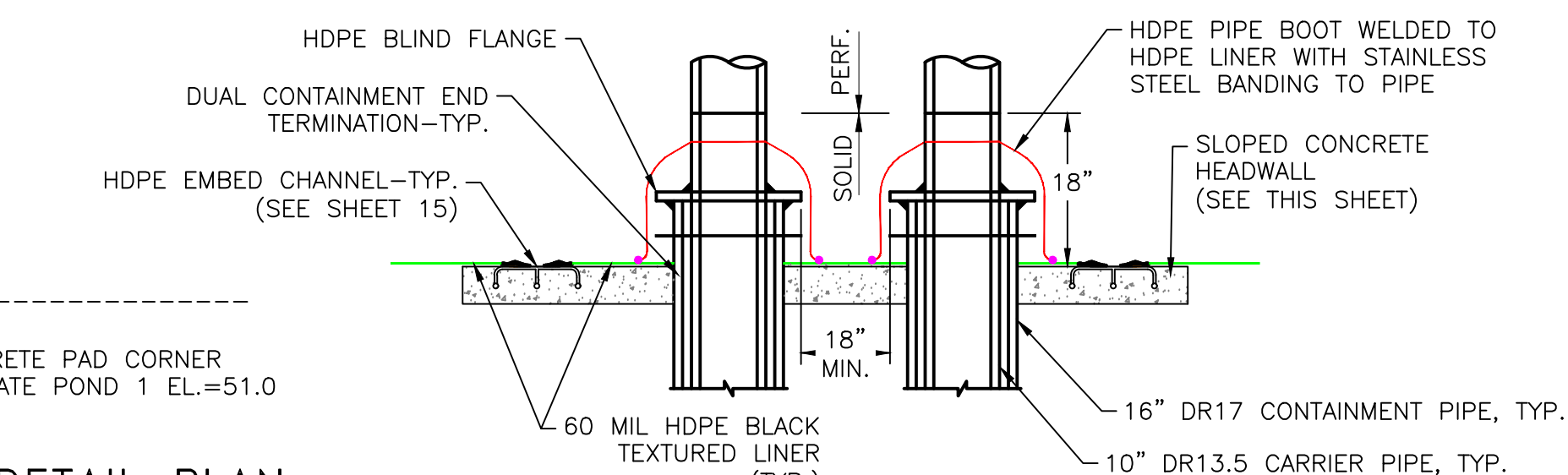


LEAK DETECTION SUMP DETAIL

NOT TO SCALE



PLAN VIEW



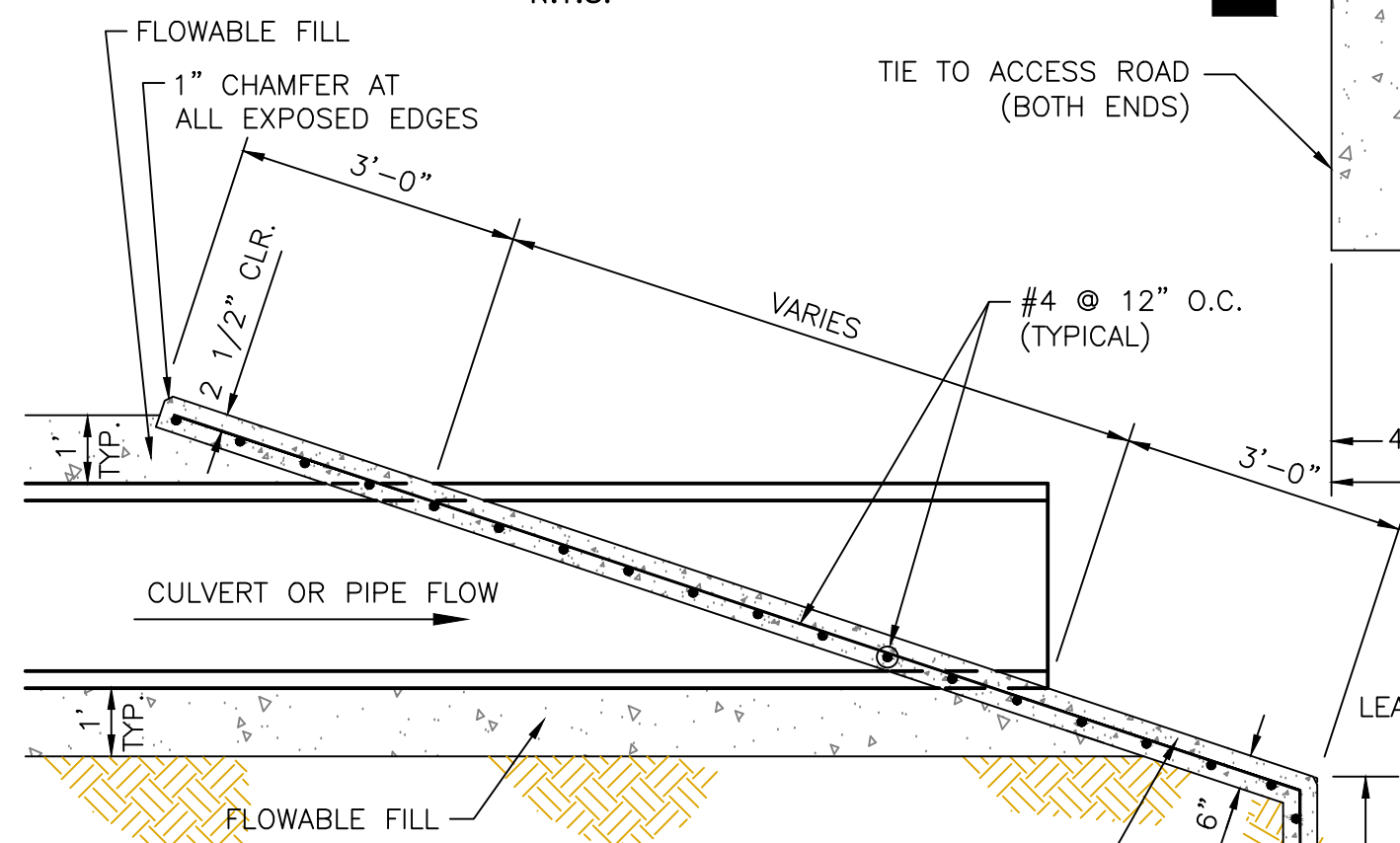
SECTION VIEW

LEACHATE COLLECTION PIPE HEADWALL DETAIL

N.T.S.

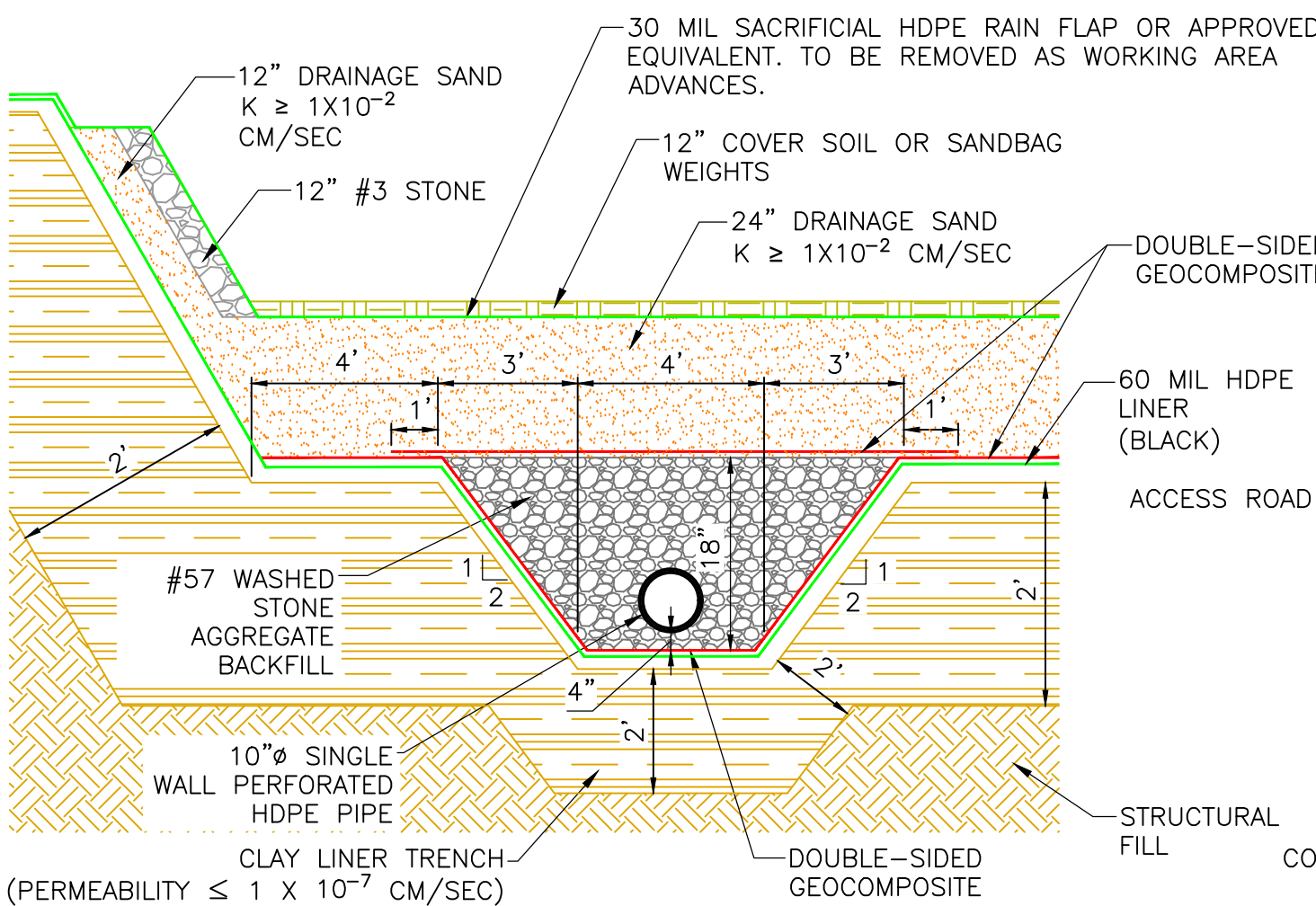
WHEEL WASH MAKEUP RESERVOIR LINER SYSTEM

N.T.S.



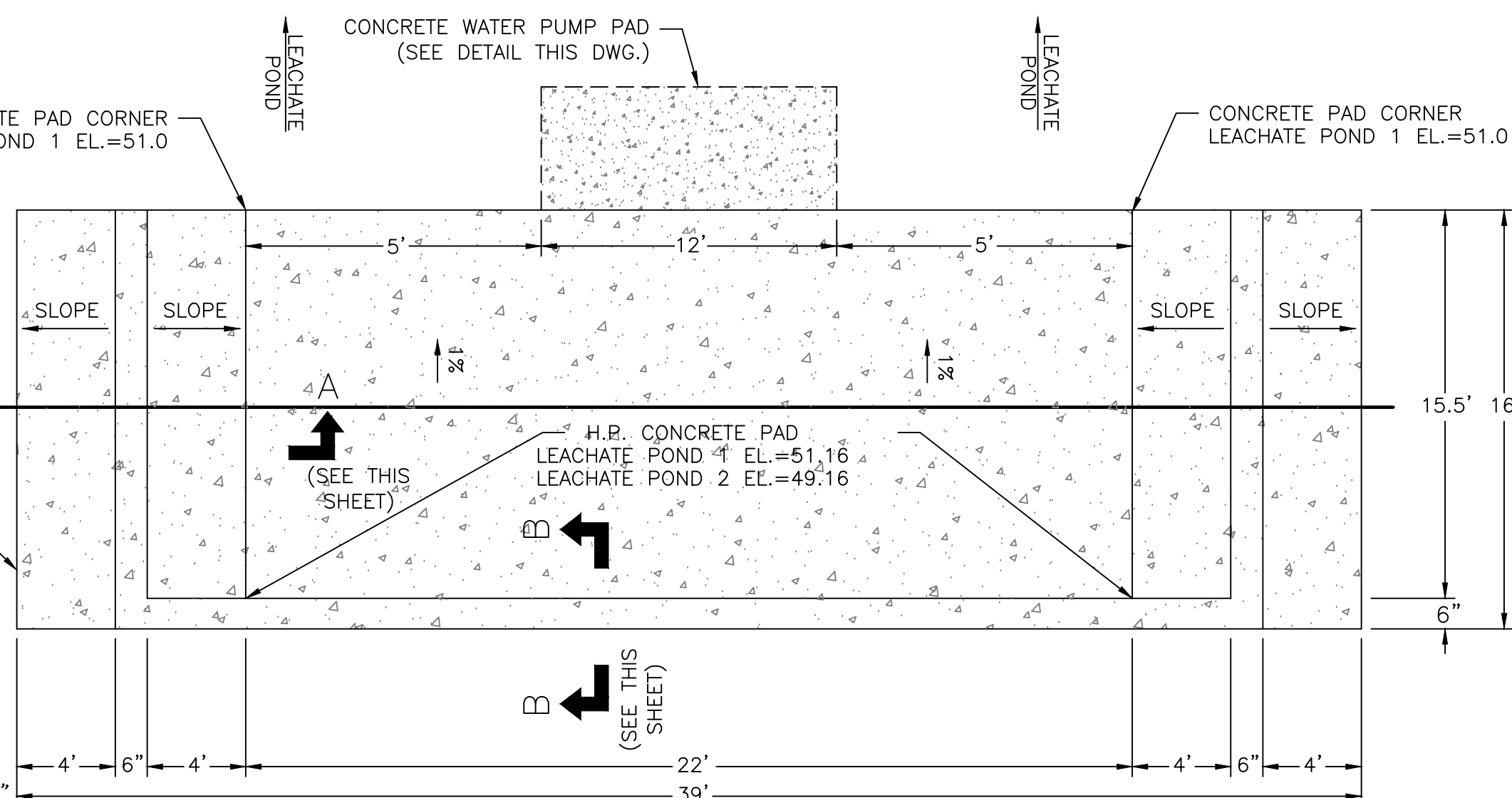
REINFORCING DETAIL FOR
SLOPED CONCRETE HEADWALL
IN UNLINED AREAS

N.T.S.



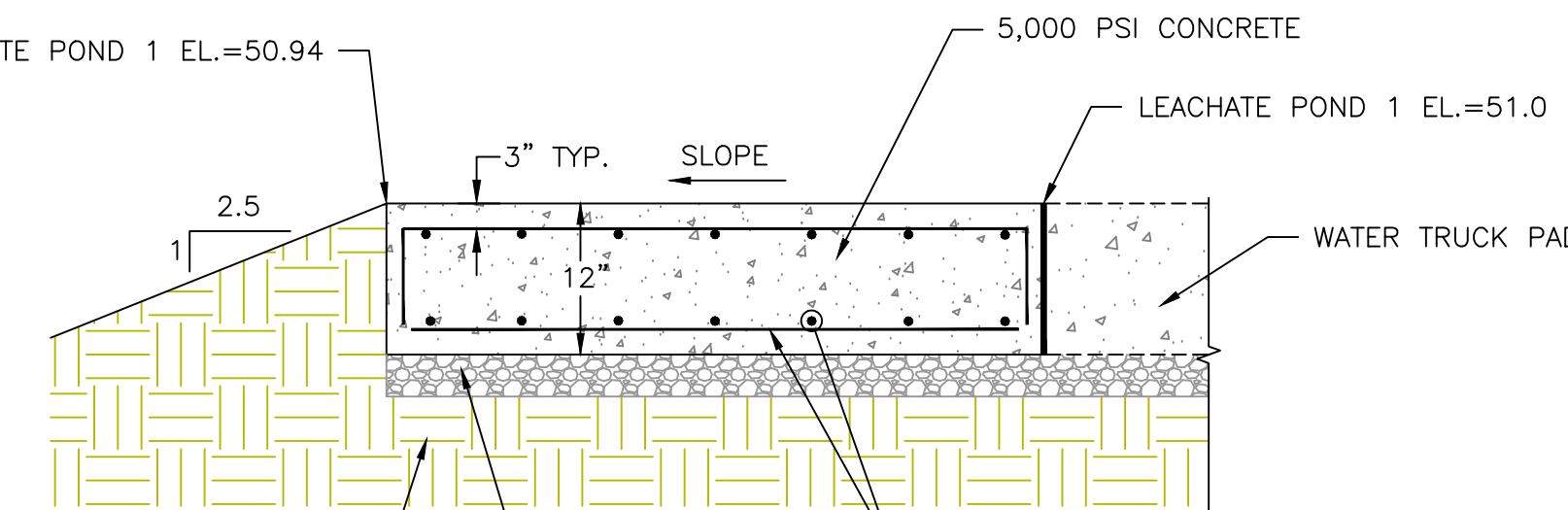
CELL 2 COMPOSITE LINER & LCRS TRENCH DETAIL

N.T.S.



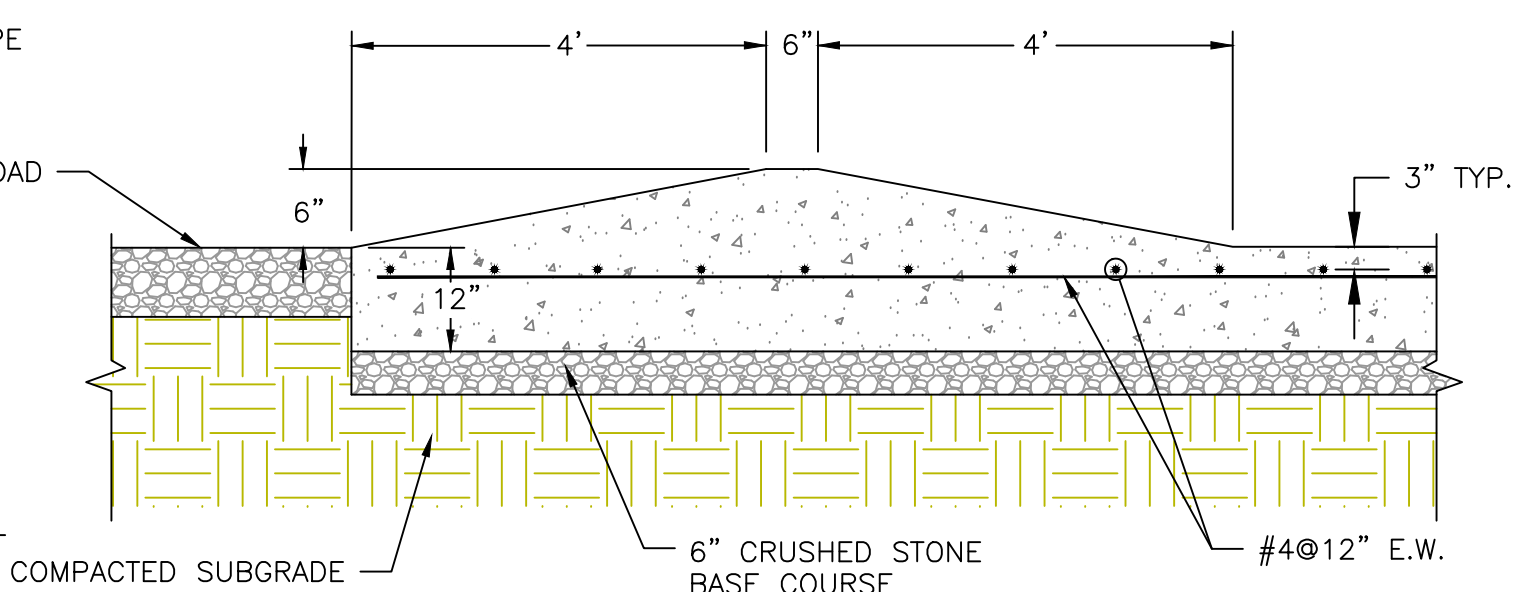
WATER TRUCK PAD DETAIL PLAN

NOT TO SCALE



SECTION C-C

NOT TO SCALE



SECTION A-A

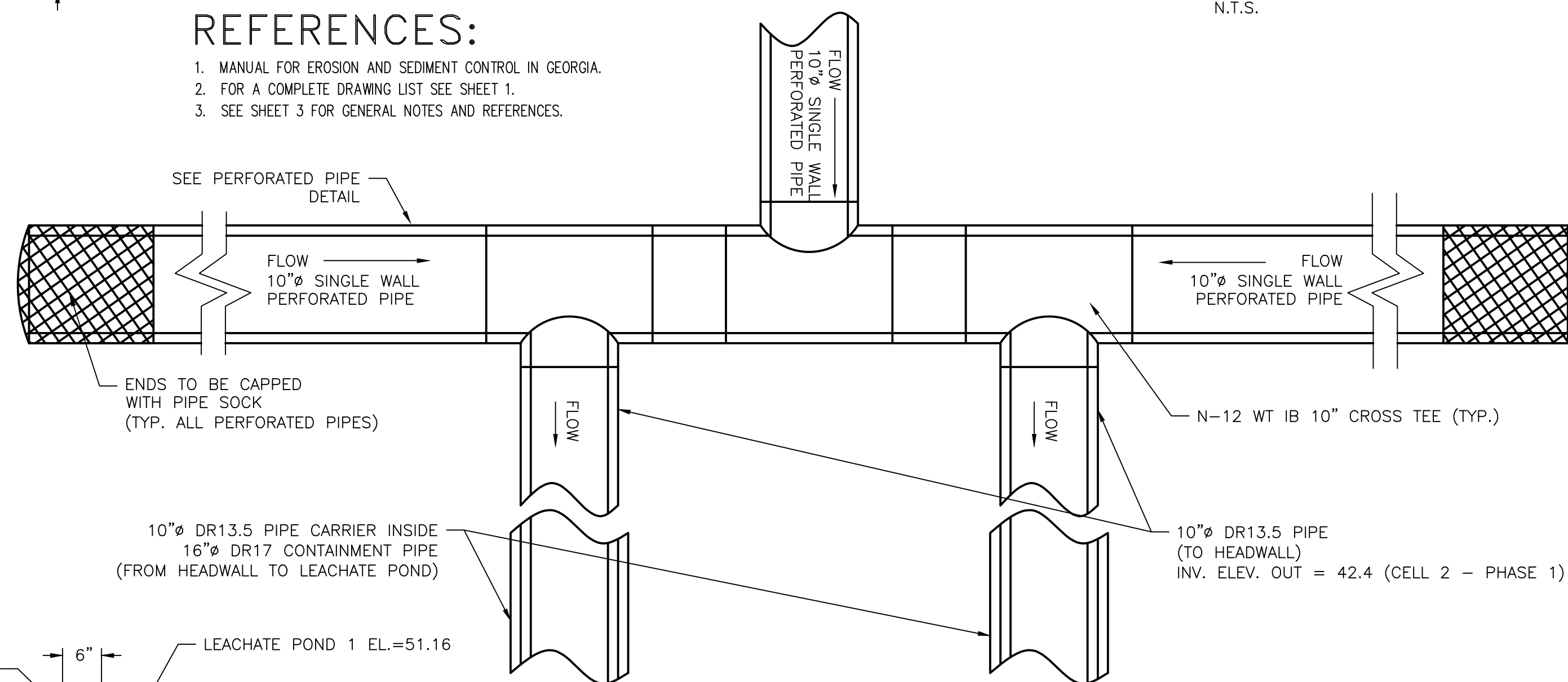
NOT TO SCALE

CONCRETE WATER PUMP PAD DETAIL PLAN

NOT TO SCALE

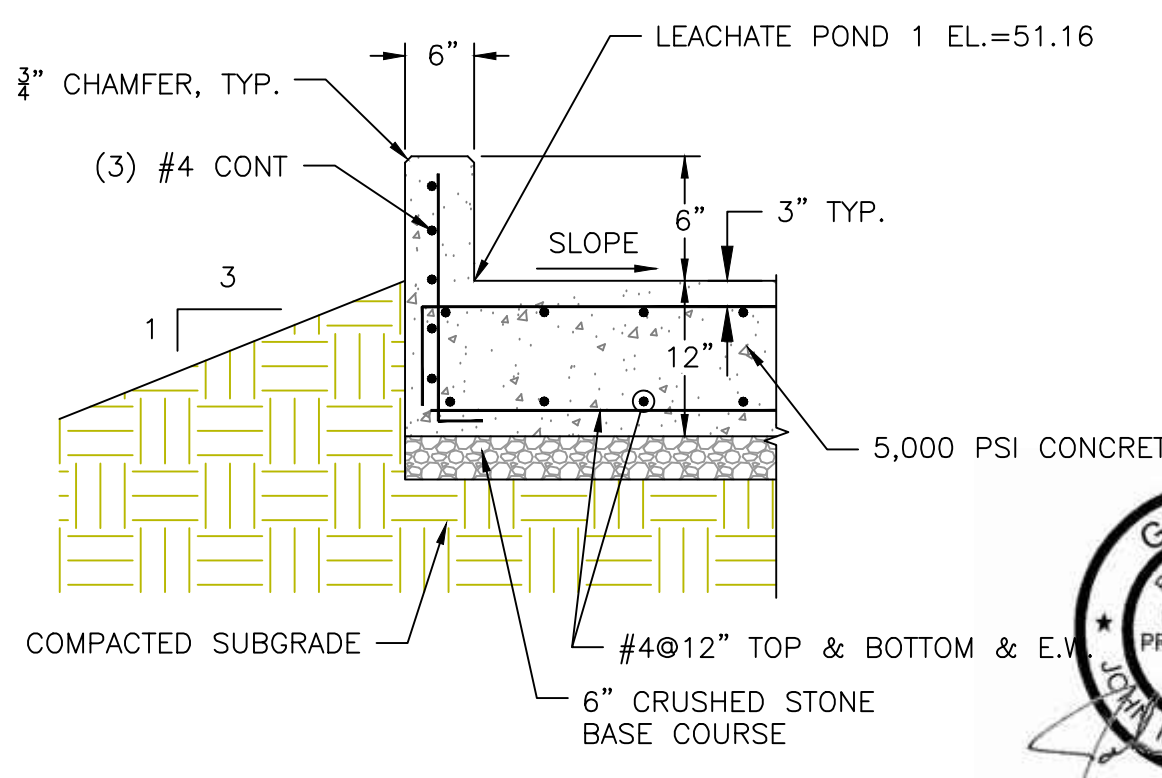
REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
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COLLECTOR PIPE JUNCTION DETAIL

NOT TO SCALE

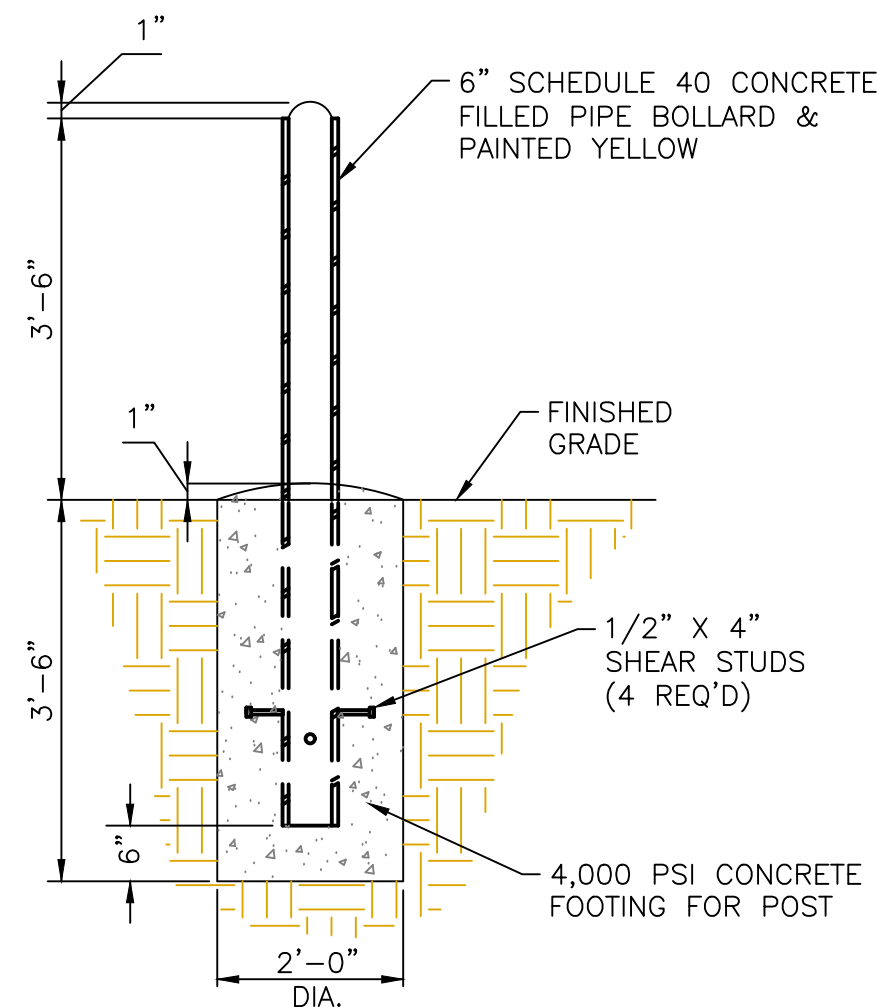


SECTION B-B

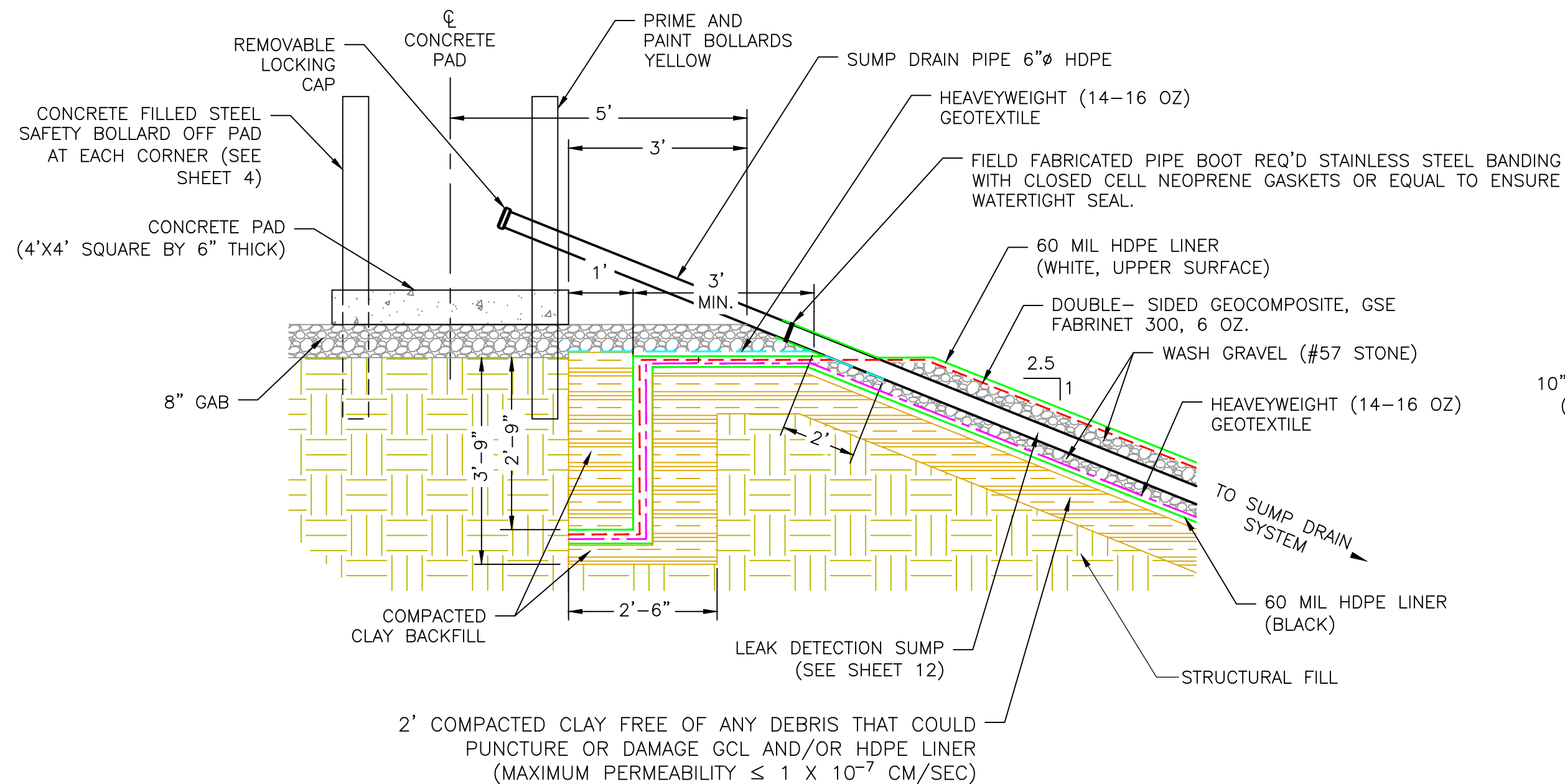
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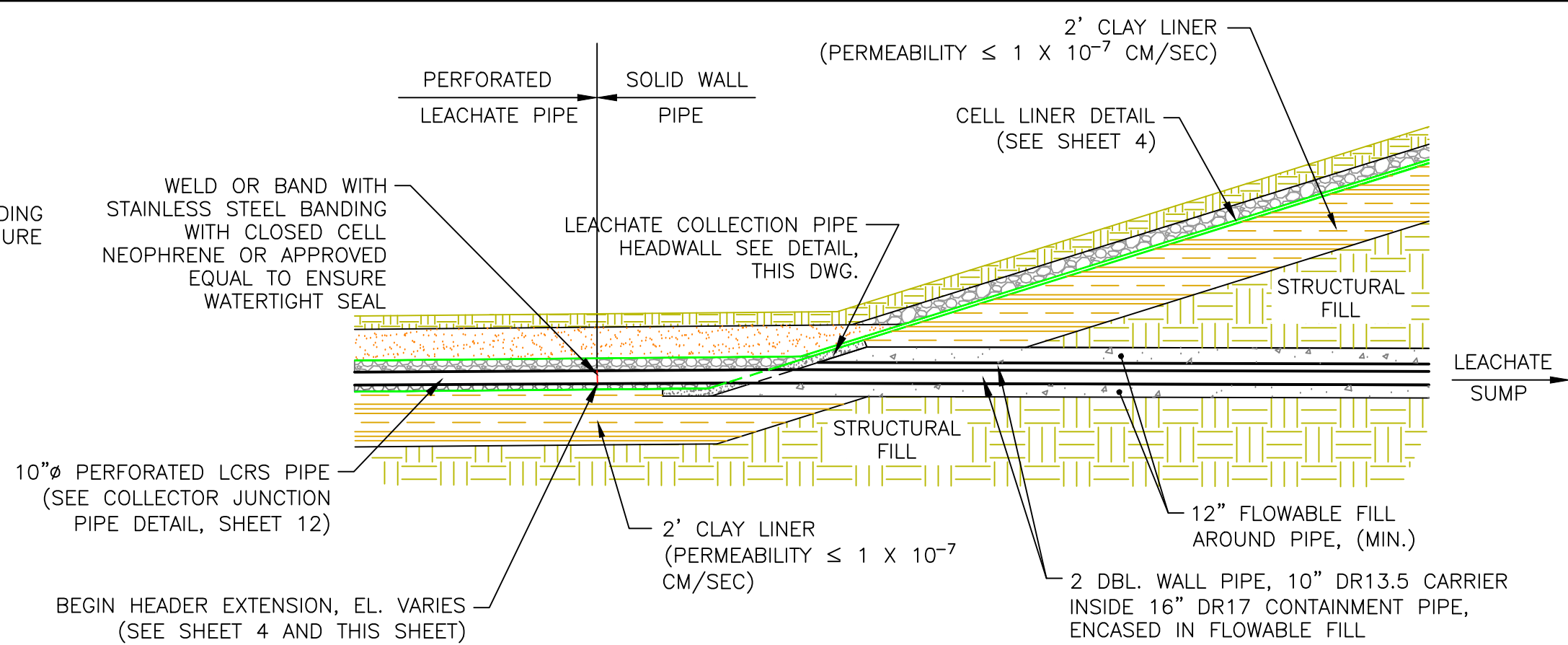
MISC. SECTIONS & DETAILS			
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA			
(404) 592-0050 https://www.geiconsultants.com/		1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
PROJ. NO.	1702944	DWG.	12
SCALE	NONE	SHEET	12 OF 29
DATE	NOVEMBER 2018		



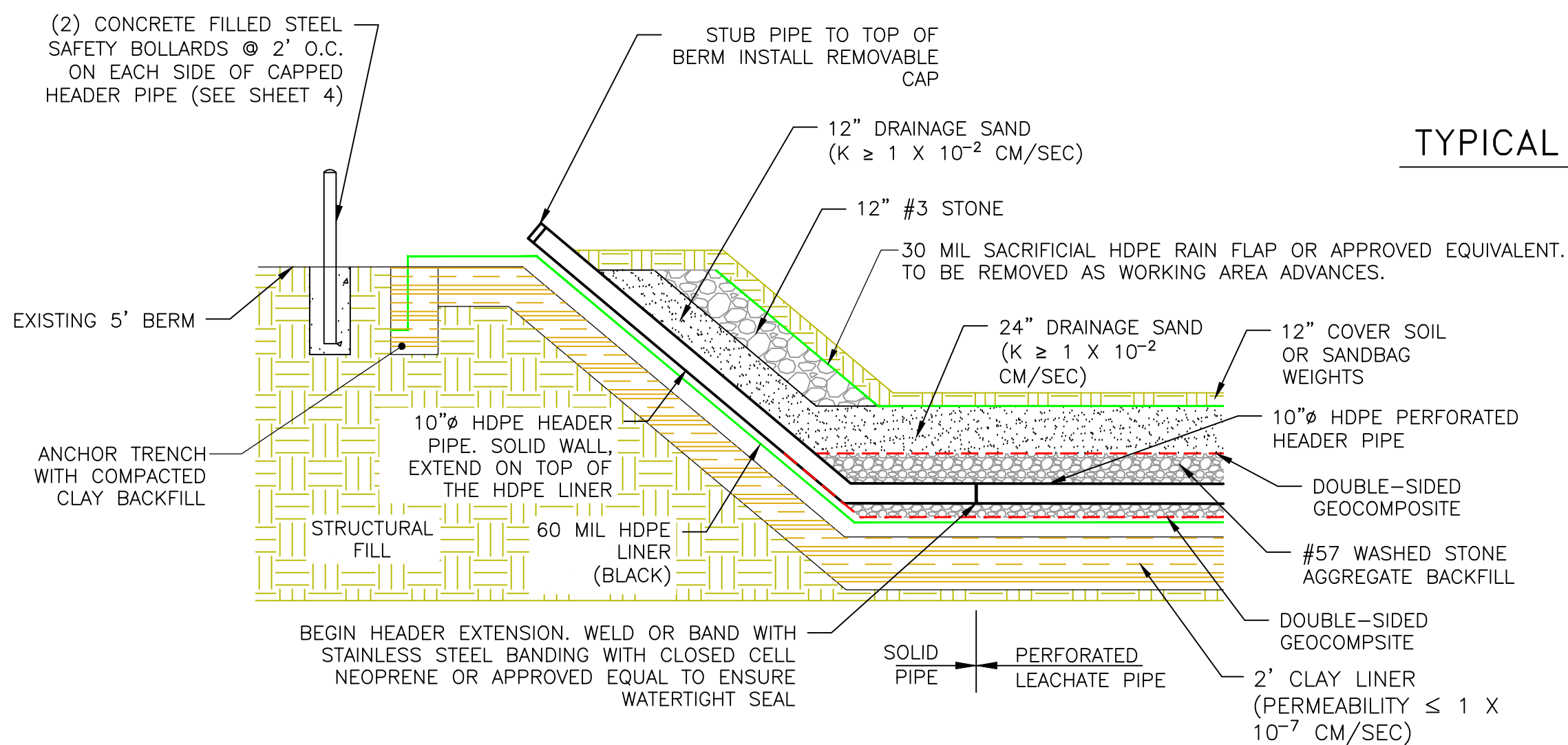
BOLLARD DETAIL
N.T.S.



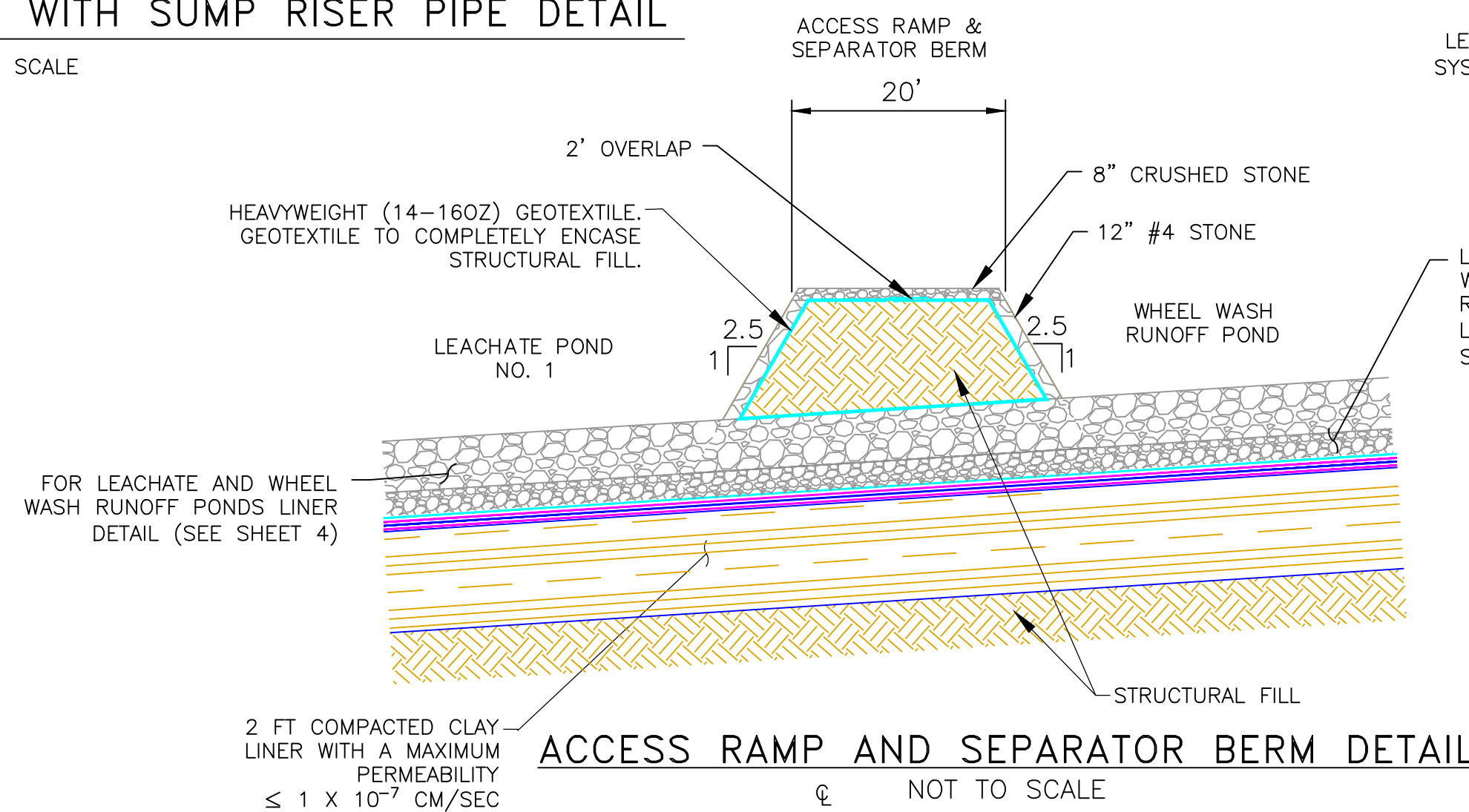
TYPICAL POND ANCHOR TRENCH WITH SUMP RISER PIPE DETAIL
NOT TO SCALE



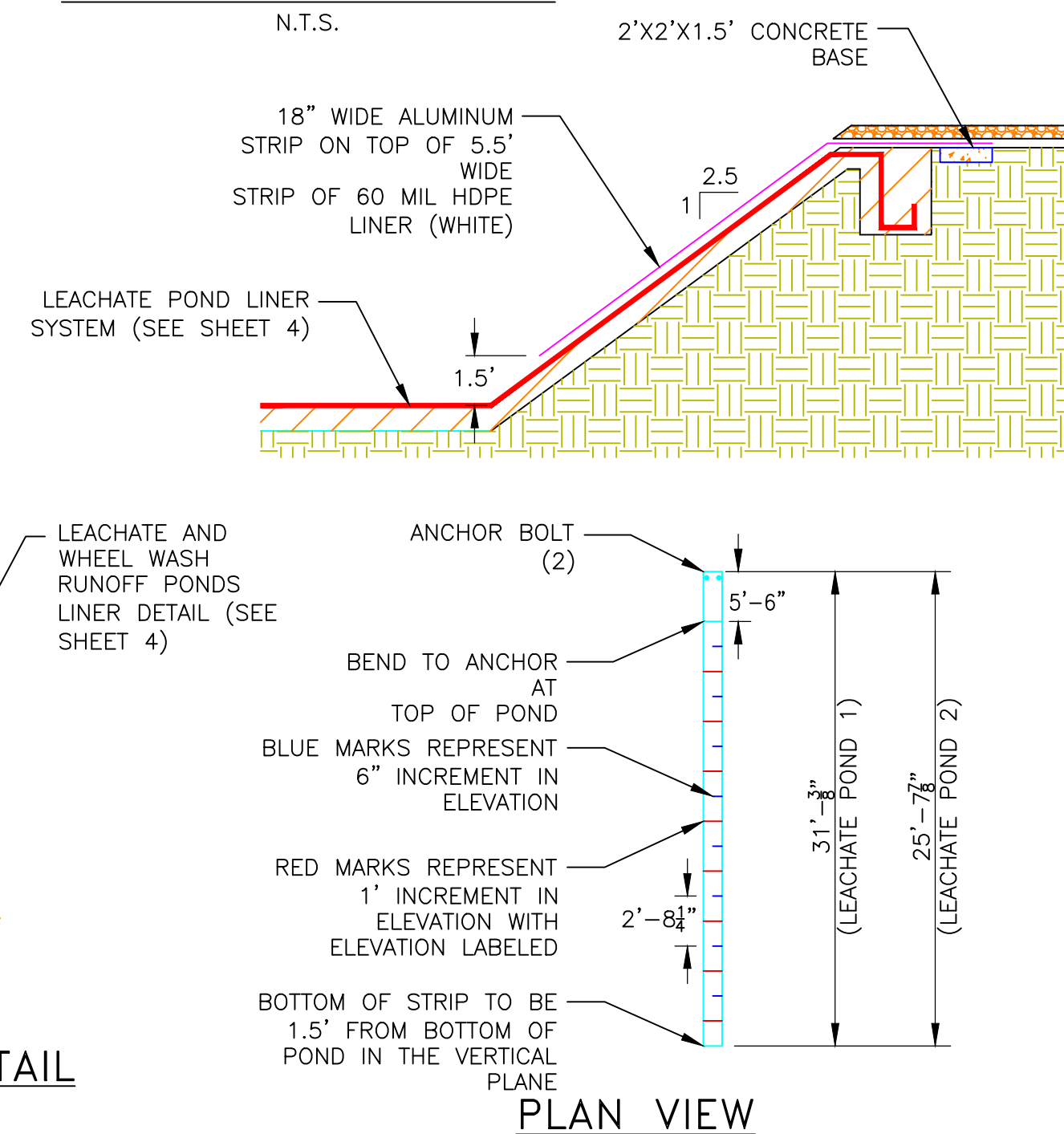
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
OUTLET PIPE SECTION
N.T.S.



LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
CAPPED HEADER SECTION DETAIL
NOT TO SCALE

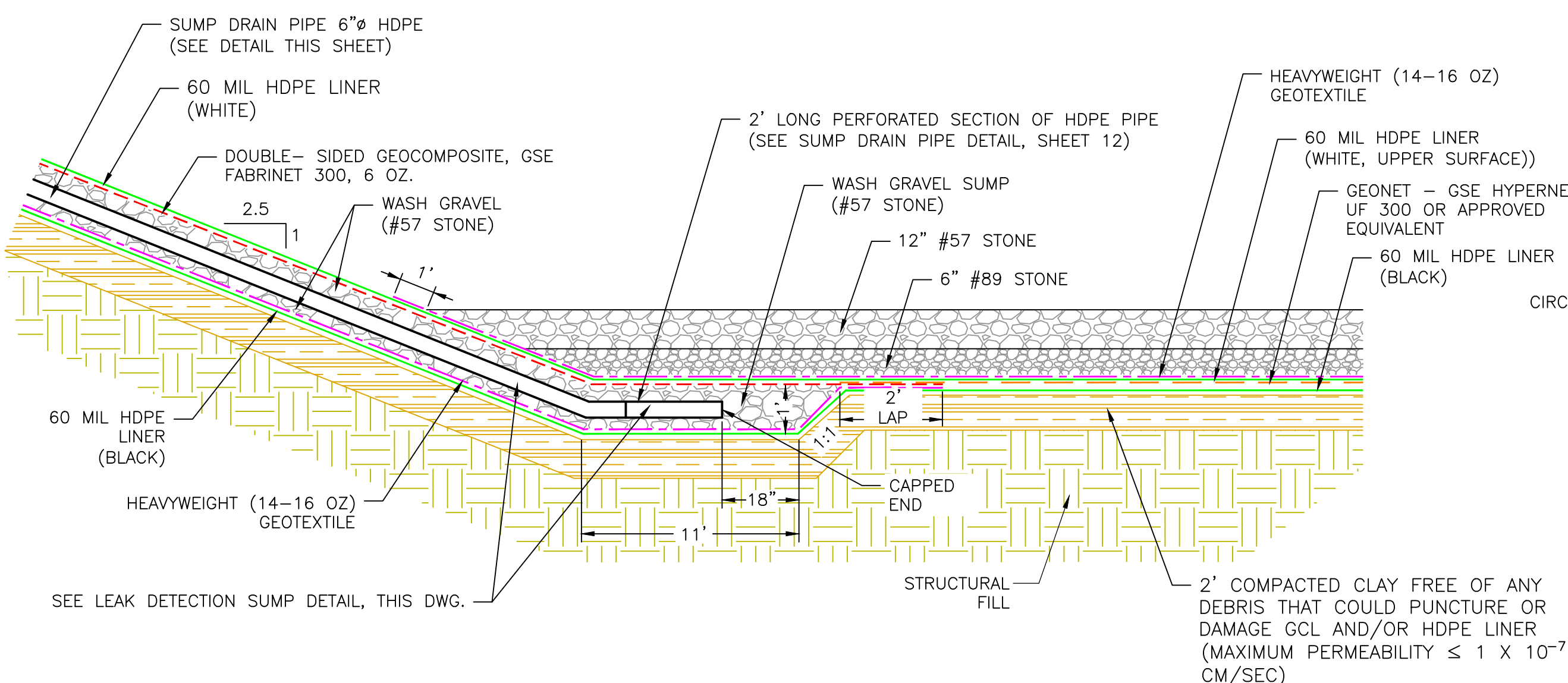


ACCESS RAMP AND SEPARATOR BERM DETAIL
NOT TO SCALE

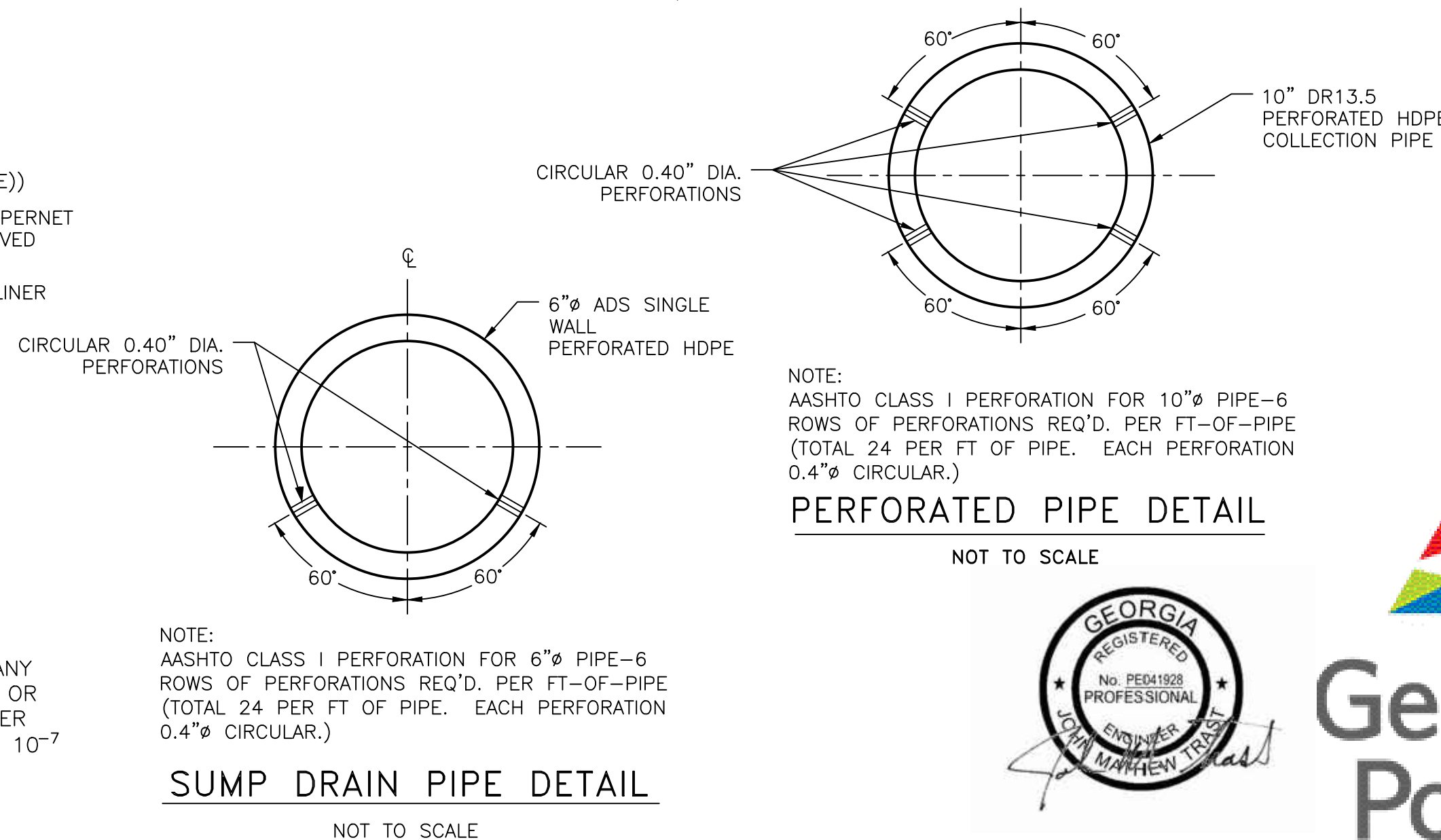


PLAN VIEW

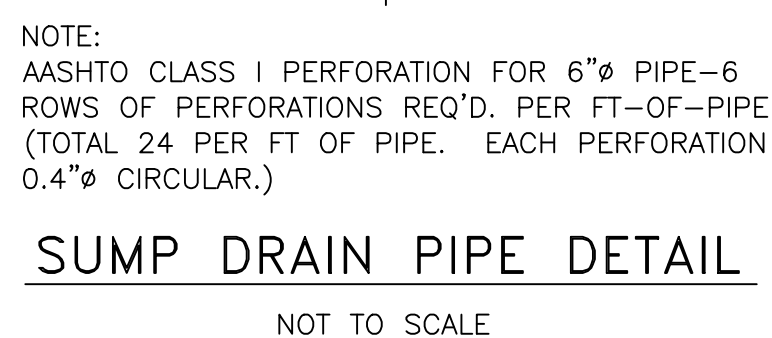
WATER LEVEL MARKER POST DETAIL
NOT TO SCALE



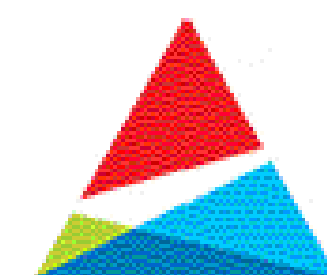
TYPICAL LEACHATE POND LEAKAGE DETECTION SUMP DETAIL
NOT TO SCALE



PERFORATED PIPE DETAIL
NOT TO SCALE




SUMP DRAIN PIPE DETAIL
NOT TO SCALE



Georgia
Power

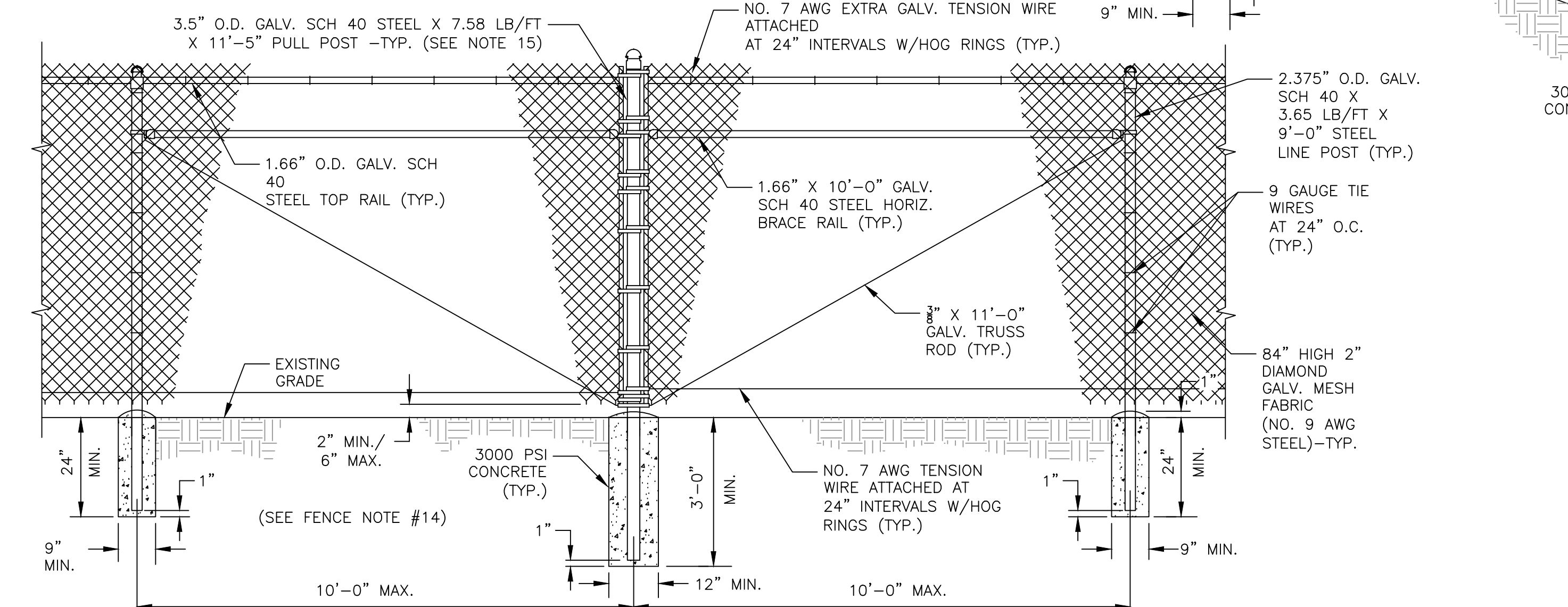
REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
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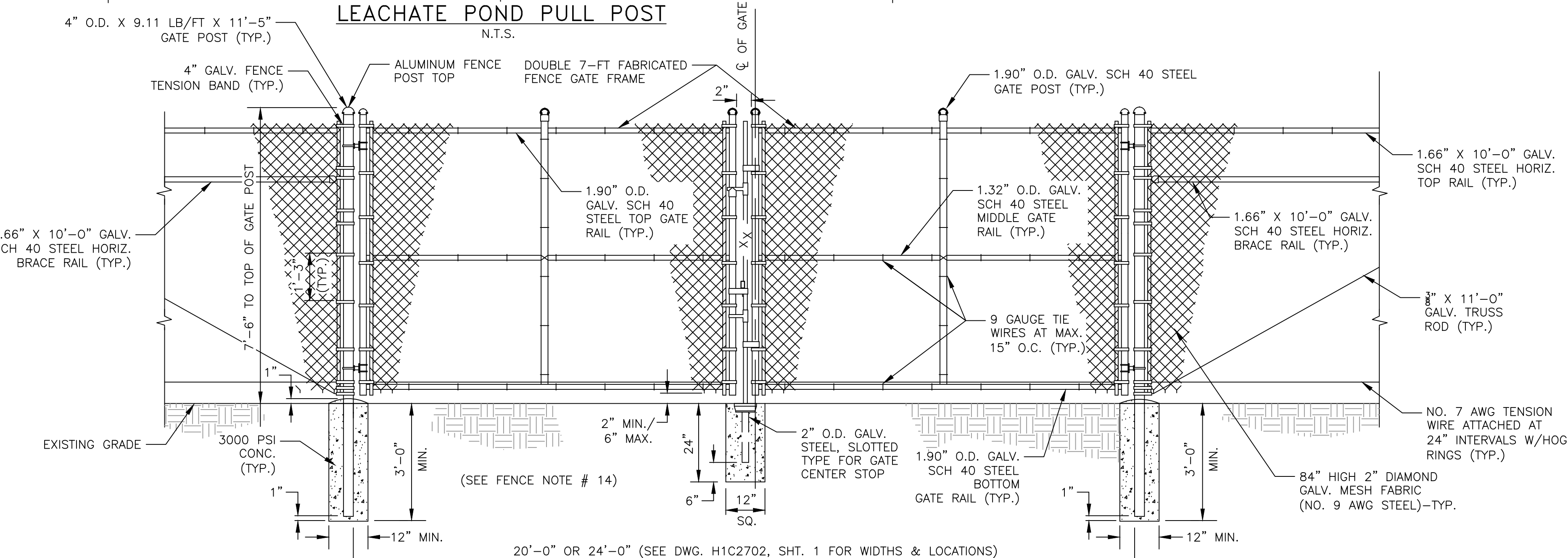
MISC. SECTIONS & DETAILS			
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 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309			
(404) 592-0050 https://www.geiconsultants.com/	PROJ. NO. 1702944	DWG. 13	EDIT
SCALE NONE	SHEET 13 OF 29		
DATE NOVEMBER 2018			

FENCE

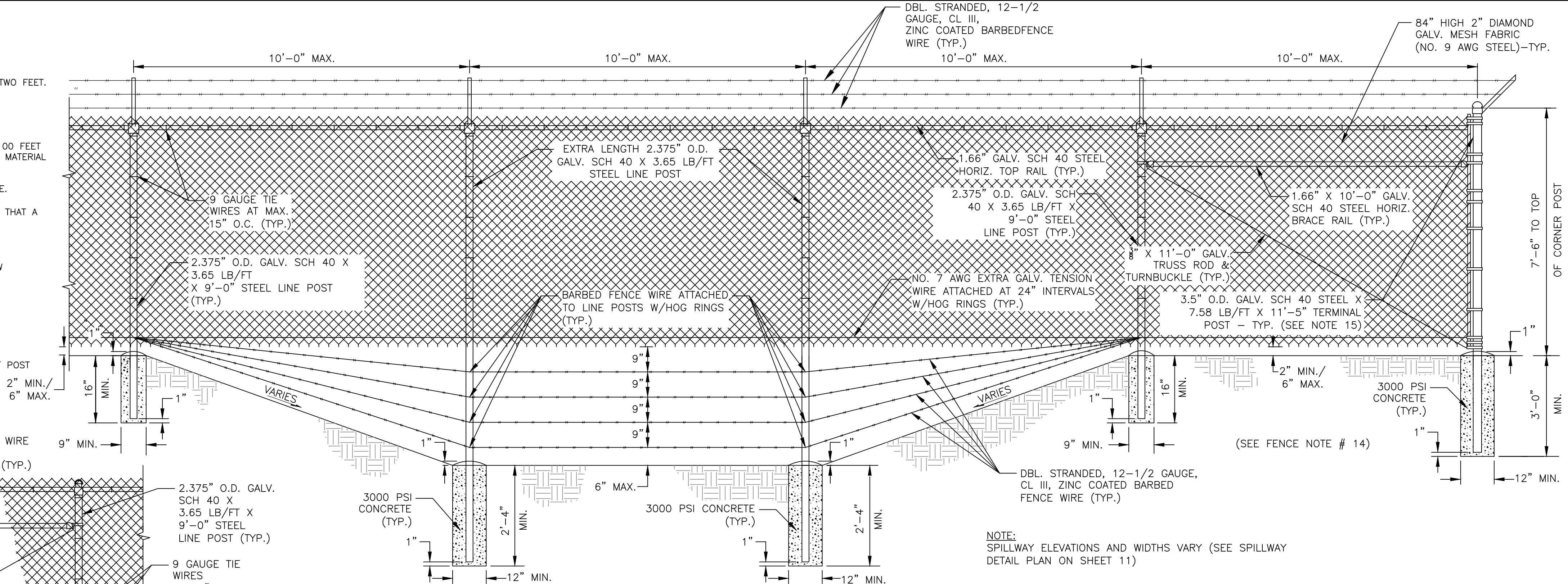
1. FENCE MATERIALS AND ERECTION SHALL BE IN ACCORDANCE WITH THE SOUTHERN COMPANY GENERAL PROVISIONS FOR CHAIN LINK FENCE SPECIFICATIONS 32 31 13.
2. TIE FENCE FABRIC TO SPIRALED TENSION WIRE BETWEEN POSTS WITH GALVANIZED STEEL HOG RINGS TOP AND BOTTOM AT INTERVALS OF TWO FEET.
3. LIMIT TENSION IN FABRIC AND WIRE TO PREVENT BENDING OF GATE POSTS AND CORNER POSTS.
4. WHEN GATE PANEL IS INSTALLED ON A CORNER POST, THE LATCH SHOULD BE INSTALLED ON THE OPPOSITE PANEL.
5. PULL POSTS WILL BE INSTALLED AT APPROXIMATELY MID-SPAN WHERE SPACING BETWEEN CORNER POSTS OR TERMINAL POSTS EXCEEDS 100 FEET TO PROVIDE FENCE GROUNDING POINT PER NECC, OR WHERE IT IS NECESSARY TO TERMINATE THE FENCE DUE TO A CHANGE IN GRADE. MATERIAL FOR PULL POSTS TO BE SAME AS CORNER POSTS.
6. HINGE TO BE INSTALLED WITH GALVANIZED STEEL BOLT WITH TWO NUTS OR PREFERRED SELF-LOCKING TYPE NUT TO LOCK BOLT IN PLACE.
7. CHAIN FOR GATE TO BE ONE PIECE: 1" GALVANIZED STEEL, WELDED, SIZE 5/0, INSERTED BETWEEN GATE FRAME AND TENSION BAR, SUCH THAT A TIGHT FIT IS OBTAINED WITH LOCK INSTALLED FROM OUTSIDE GATE, EXCESS LINKS SHOULD BE REMOVED.
8. FENCE FABRIC TO BE INSTALLED WITH TWIST SELVAGES AT BOTTOM.
9. GATE HINGE TO BE INSTALLED FOR $\frac{1}{2}$ " OR LESS GAP BETWEEN GATE POST AND FRAME TO PREVENT ACCESS WHEN CLOSED AND TO ALLOW APPROX. 180-DEGREES INWARD OPENING.
10. GATE KEEPER TO BE INSTALLED FOR EACH PANEL OF DOUBLE GATES AT MAXIMUM OPEN POSITION.
11. TRUSS RODS ARE NOT REQUIRED WHEN ONLY ONE LINE POST IS IN A CONTINUOUS SPAN OF FABRIC.
12. BOTTOM OF CHAIN LINK FABRIC TO BE INSTALLED A MINIMUM OF 2" TO A MAXIMUM OF 6" ABOVE FINISHED GRADE.
13. USE $\frac{3}{8}$ " O.D. X 11"-5" POST FOR CORNER AND PULL POSTS REQUIRING BARBED WIRE TO BE HELD BY 45-DEGREE ARMS, CUT 12" OFF POST FOR A HEIGHT OF 10'-5".
14. DOUBLE DRIVE GATES TO BE INSTALL TO MINIMIZE OPENING TO 2" MAXIMUM. (CHAIN SHOULD NOT BE SLACK.)
15. CONCRETE TO BE POURED WITH A 1" DOME TO PREVENT PUDDLING NEAR POST.



LEACHATE POND PULL POST



LEACHATE POND 20' OR 24' WIDE CHAIN LINK DOUBLE SWING SECURITY GATE

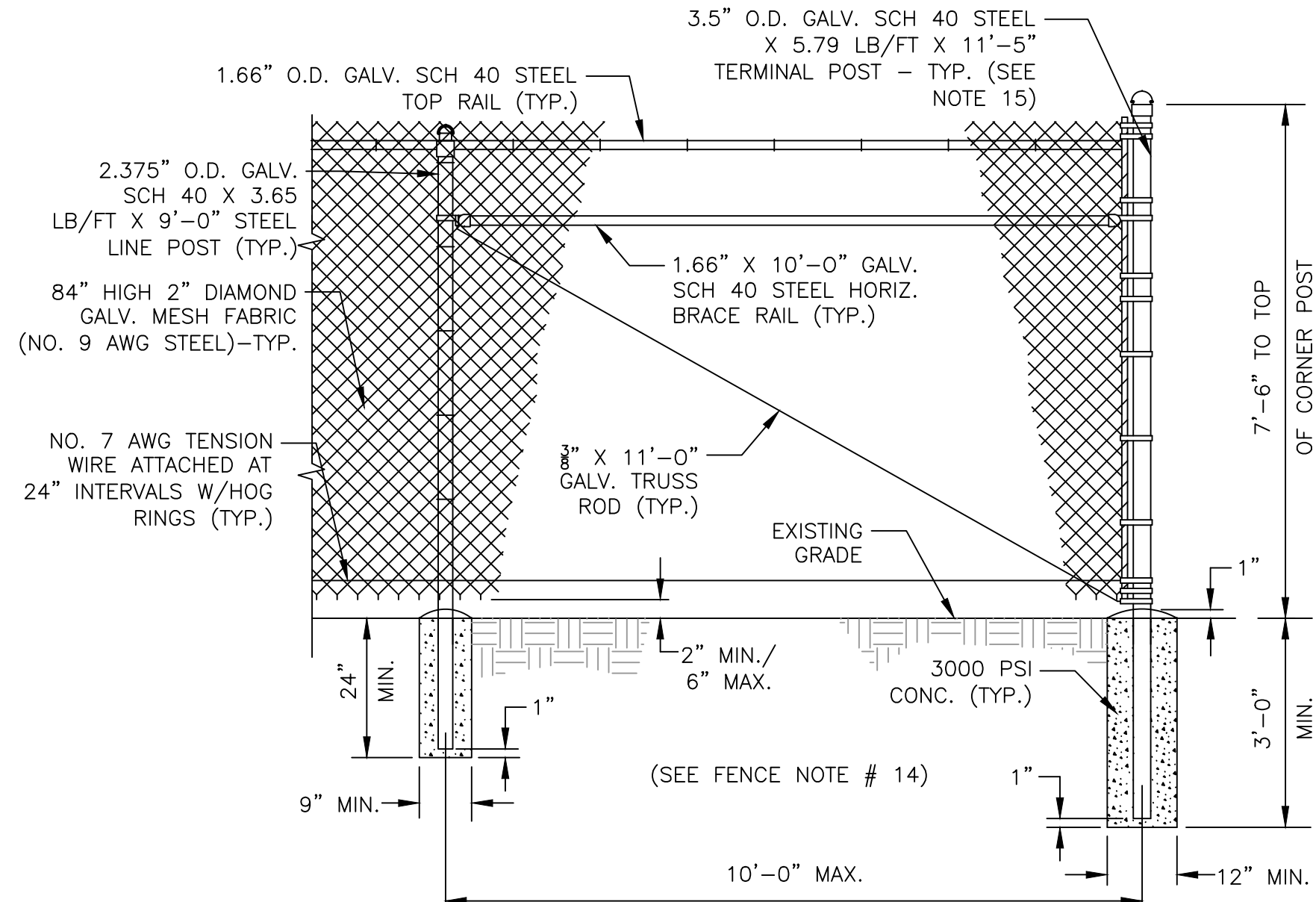


PERIMETER SECURITY FENCE DITCH CROSSING

N.T.S

REFERENCES

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
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LEACHATE POND TYPICAL CORNER

N.T.S.

MISC. SECTIONS & DETAILS

PERMIT DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)
EXISTING LANDFILL NO. 4
EFFINGHAM, GEORGIA



75 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

(404) 592-0050

<https://www.geiconsultants.com>

PROJ. NO.

1702944

G. 14

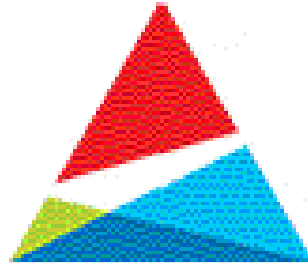
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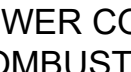
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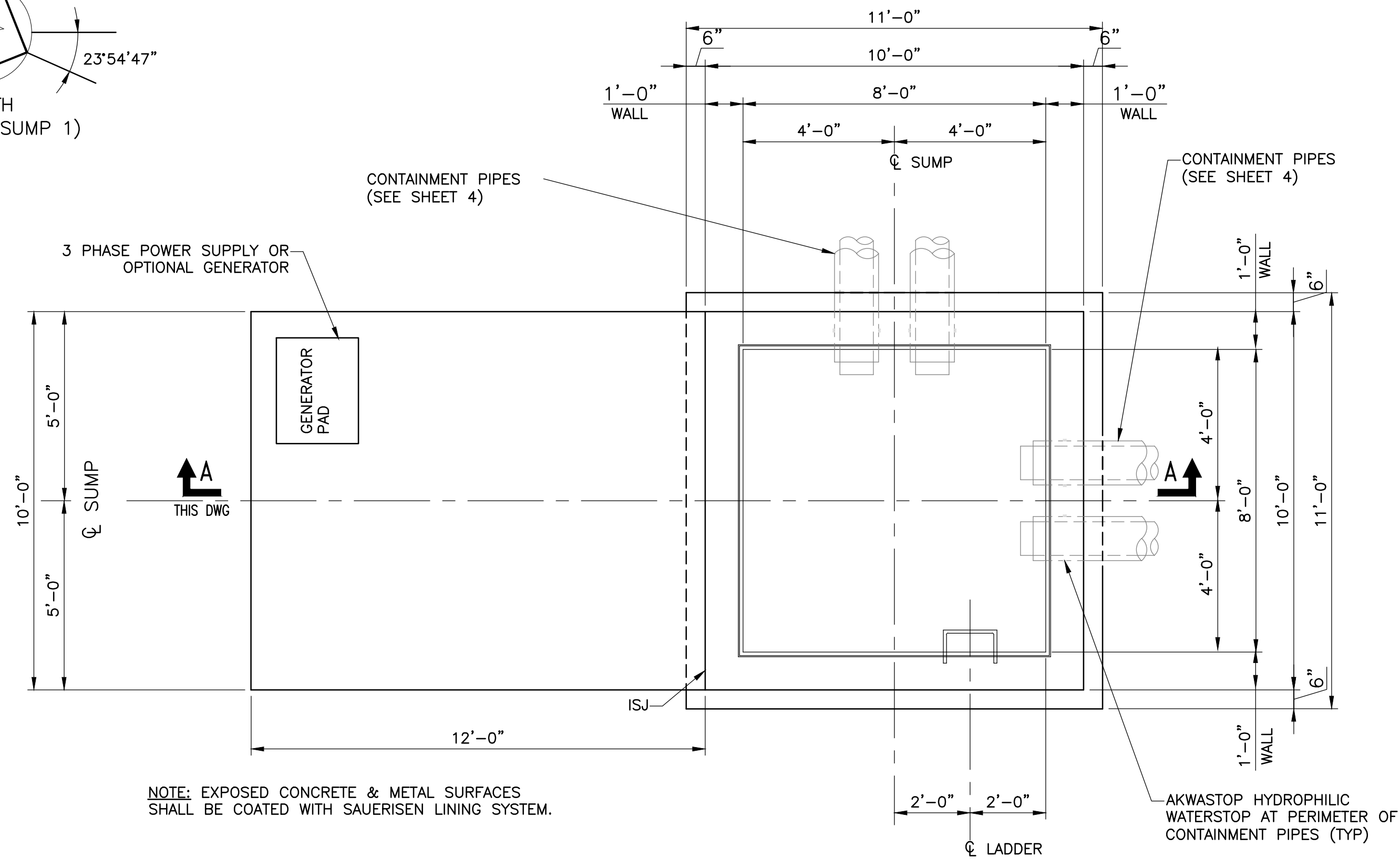
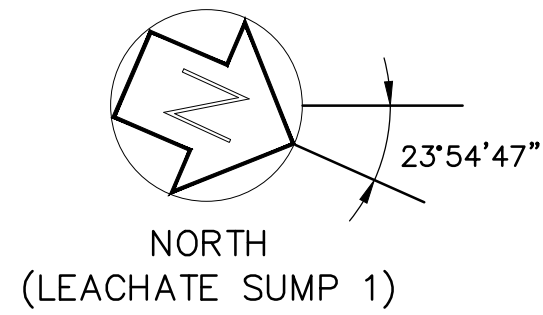
NOVEMBER 20

SHEET 1



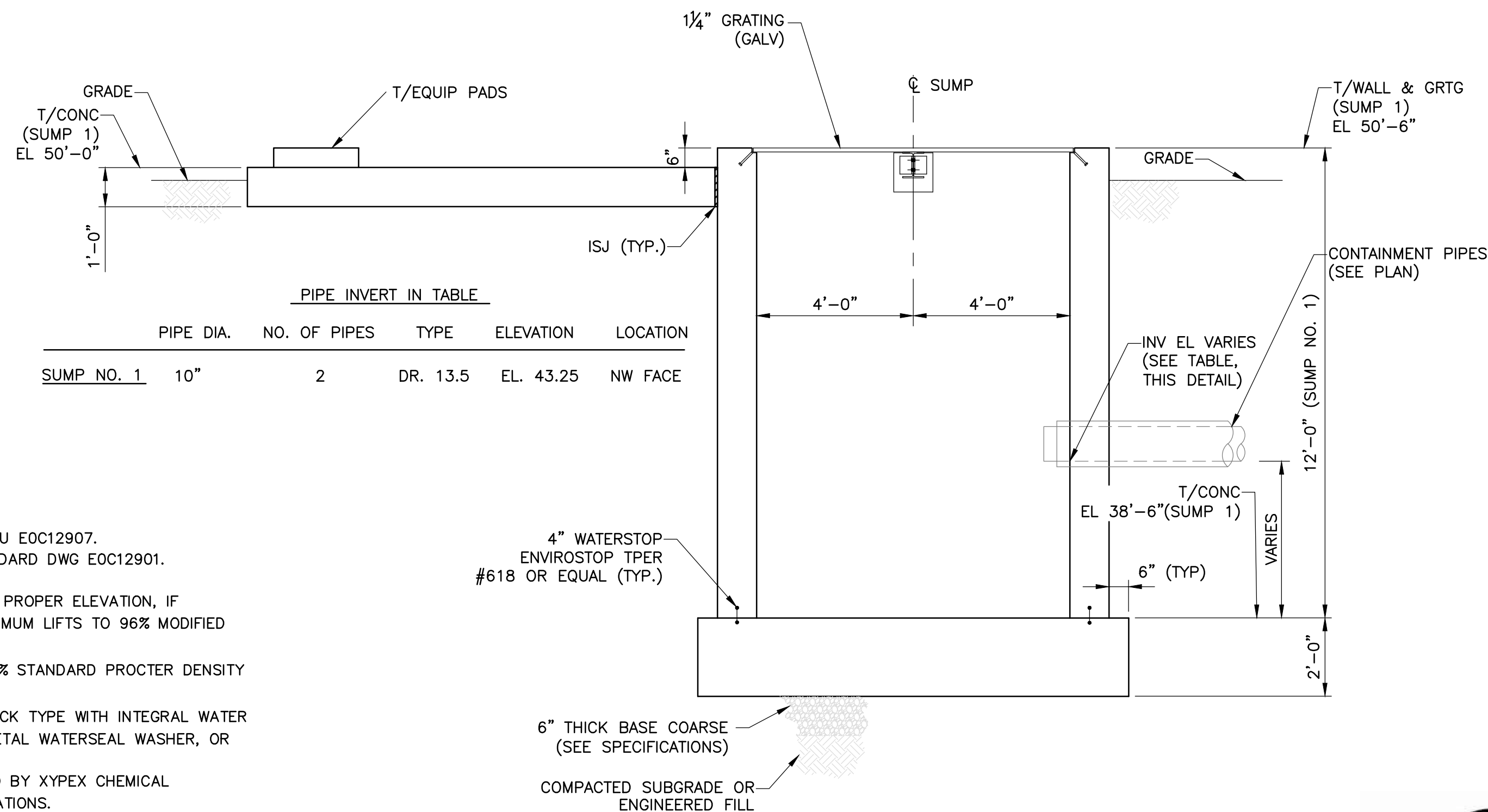
Georgia Power

MISC. SECTIONS & DETAILS <h2 style="margin: 0;">PERMIT DRAWINGS</h2> <p style="margin: 0;">GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA</p>		
<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;">  <p style="font-size: 2em; font-weight: bold; margin: 0;">GEI</p> <p style="font-weight: bold; margin: 0;">Consultants</p> </div> <div style="margin-left: 20px;"> <p>1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309</p> </div> </div>		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO.	1702944	DWG. 15
SCALE NONE		EDIT
DATE	NOVEMBER 2018	SHEET 15 OF 29



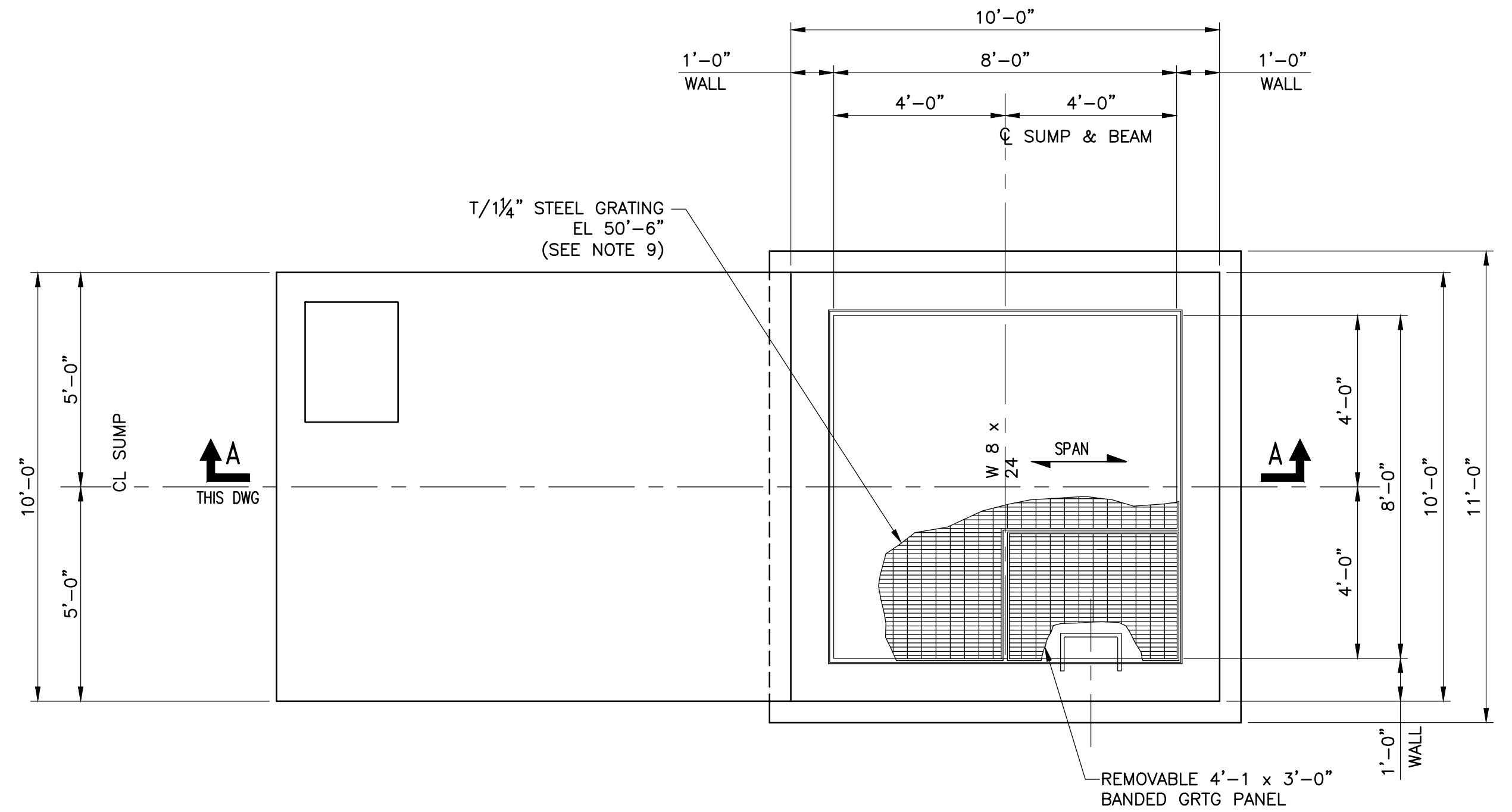
PLAN - SUMP TOP

SCALE: $\frac{3}{8}'' = 1'-0''$
(FOR SUMP LOCATION & ORIENTATION, SEE SHEET 4)



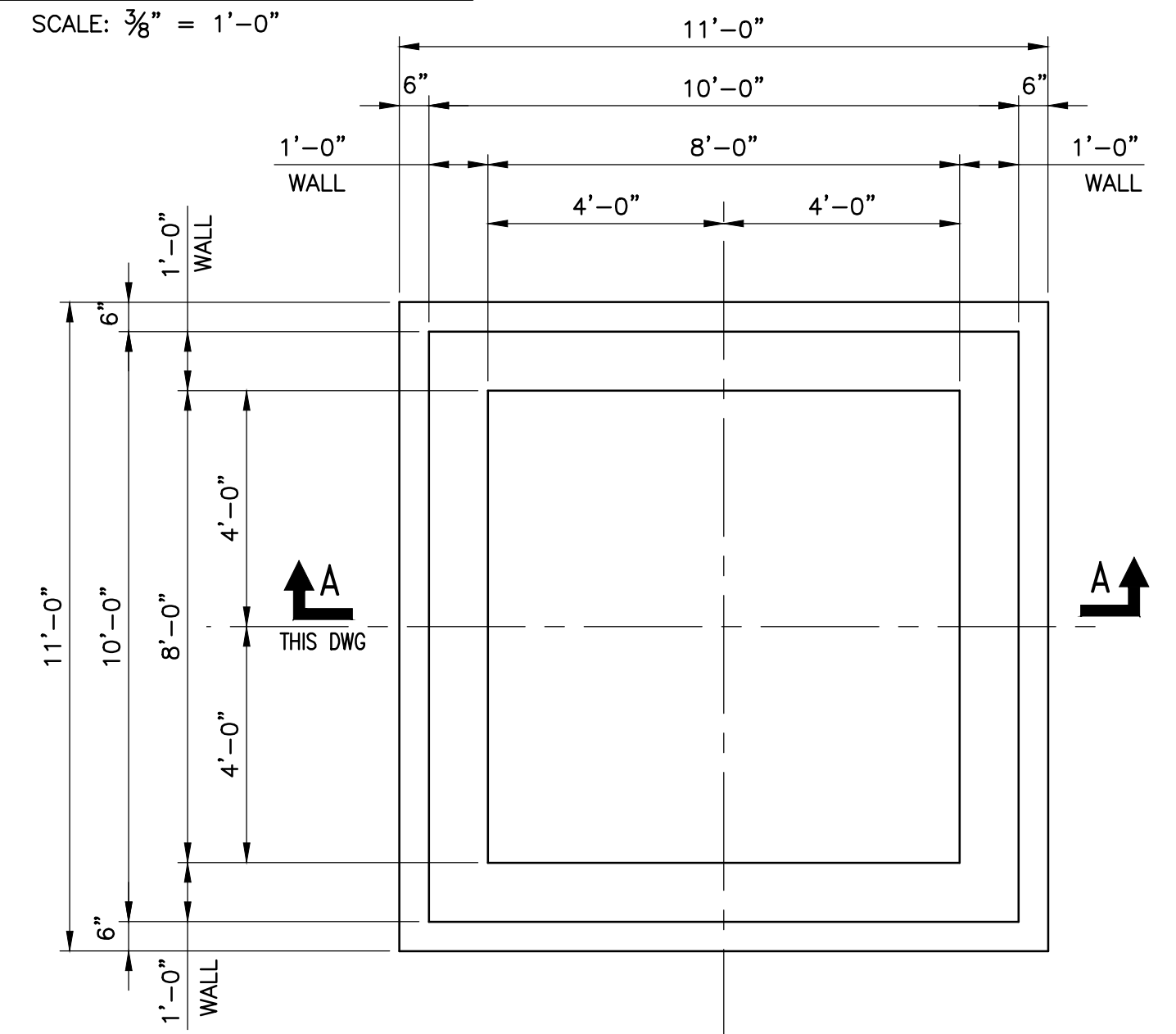
SECTION A-A

SCALE: $\frac{3}{8}'' = 1'-0''$



PLAN - STRUCTURAL STEEL

SCALE: $\frac{3}{8}'' = 1'-0''$



PLAN - SUMP BOTTOM

SCALE: $\frac{3}{8}'' = 1'-0''$


NOTES:

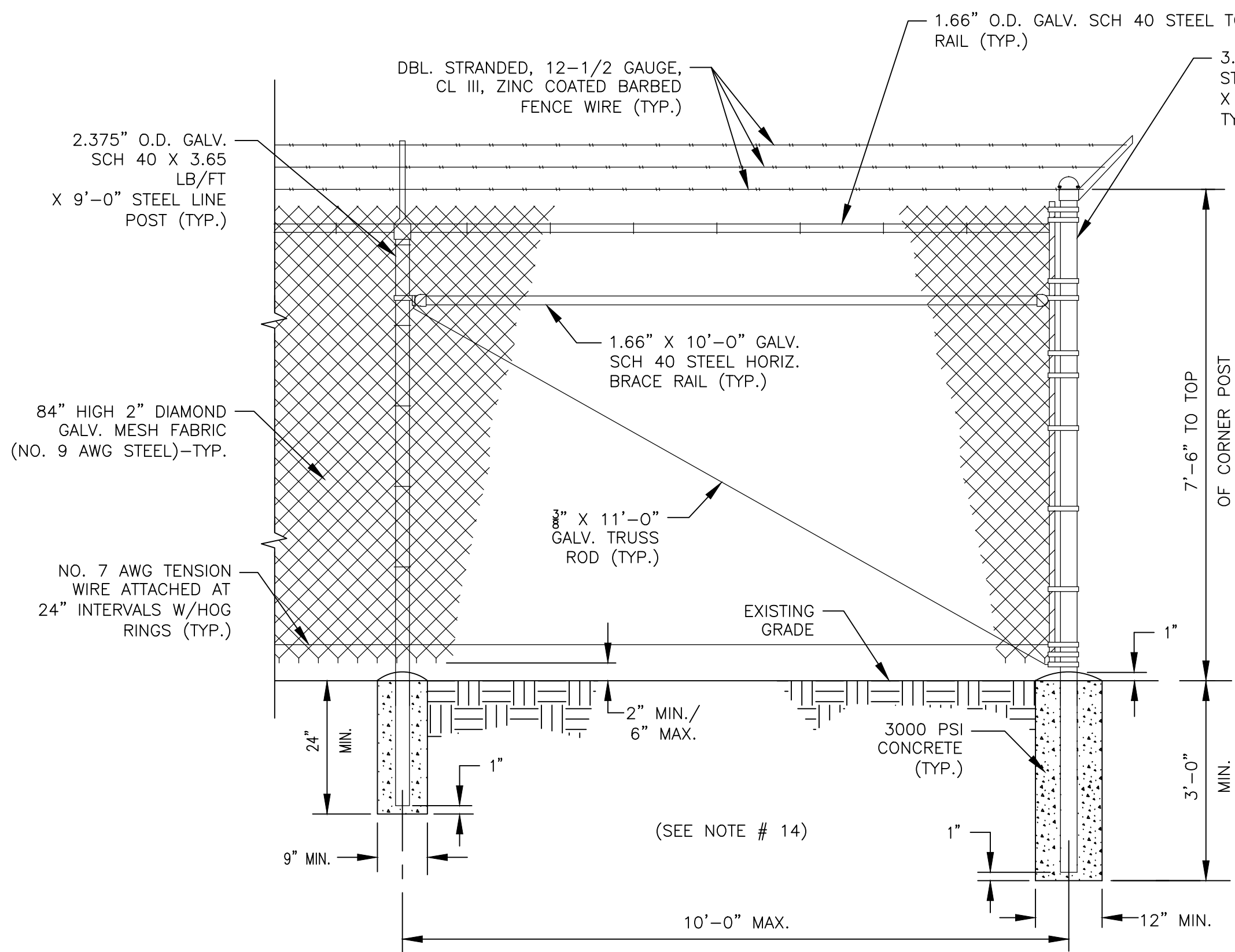
- FOR GENERAL CONCRETE NOTES SEE SCS STANDARD DWG EOC12901.
- FOR STANDARD CONCRETE DETAILS SEE SCS STANDARD DWGS EOC12901 THRU EOC12907.
- FOR STANDARD ANCHOR BOLT DETAILS AND MATERIAL NOTES SEE SCS STANDARD DWG EOC12901.
- REFERENCE SHEET 4 FOR AREA LAYOUT AND GRADING.
- EXISTING SOIL SHALL BE EXCAVATED TO SOUND MATERIAL AND BROUGHT TO PROPER ELEVATION, IF REQUIRED, WITH COARSE AGGREGATE BASE MATERIAL COMPACTED IN 8" MAXIMUM LIFTS TO 96% MODIFIED PROCTER DENSITY (ASTM D1557).
- BACKFILL AROUND SUMP SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO 90% STANDARD PROCTER DENSITY (ASTM D698).
- SUMP WALL FORM-TIES SHALL BE PREFABRICATED 1" DEEP CONE BREAK-BACK TYPE WITH INTEGRAL WATER BARRIER PLATE: DAYTON A-4 TIES WITH A-2 PLASTIC CONES AND A-8 METAL WATERSEAL WASHER, OR EQUAL. TIE HOLES SHALL BE PLUGGED IMMEDIATELY AFTER FORM REMOVAL.
- CONCRETE FOR SUMP WALLS AND BOTTOM SHALL HAVE XYPEX ADMIN C-500 BY XYPEX CHEMICAL CORPORATION. DOSAGE RATE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- STEEL BAR GRATING SHALL BE W-19-4 (1/4"x3/8" BEARING BARS) GALVANIZED STEEL GRATING.
- ALL EXPOSED CONCRETE & METAL SURFACES SHALL BE COATED WIT SAUERISEN LINING SYSTEM.

REFERENCES:

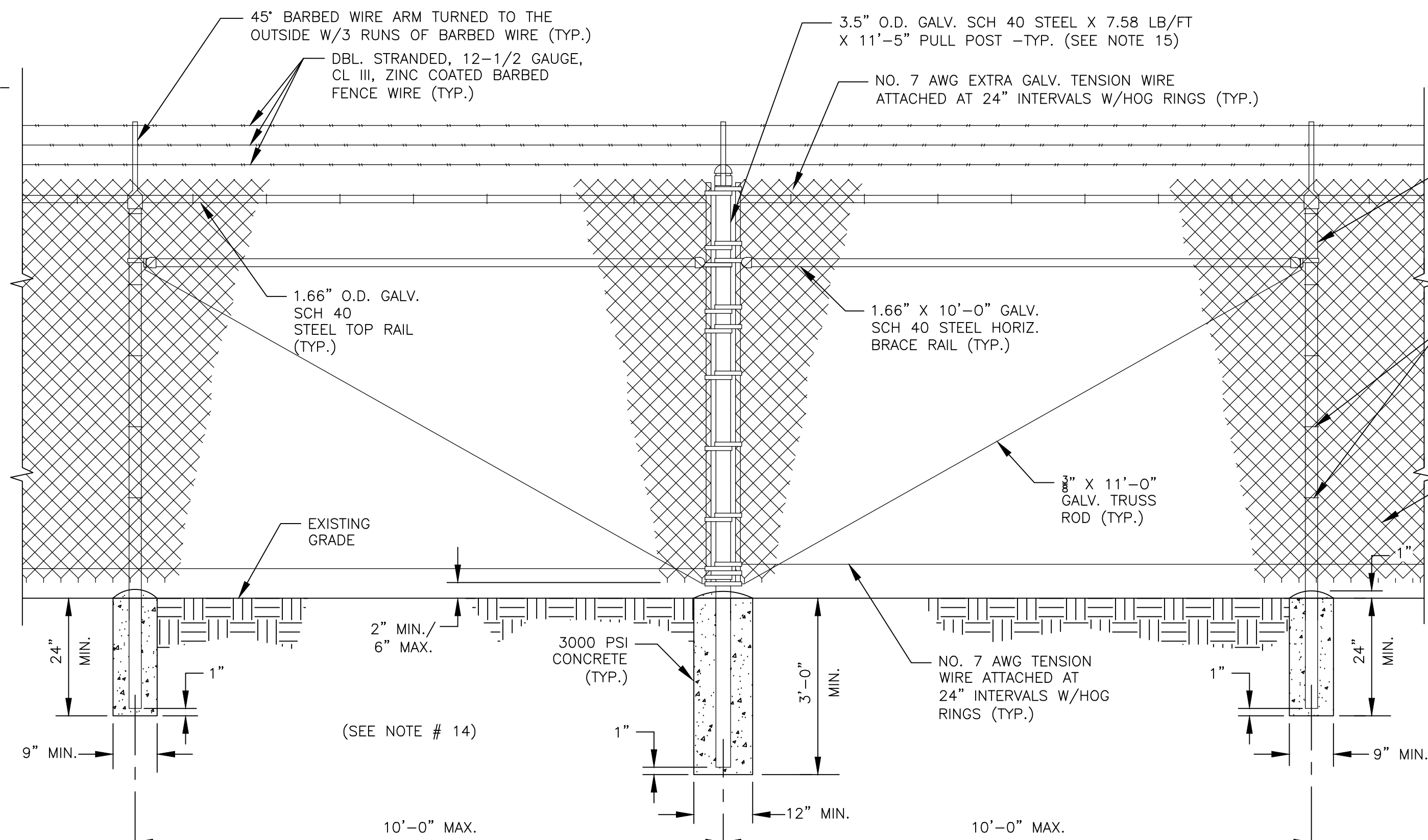
- MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
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MISC. SECTIONS & DETAILS		
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 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 16	EDIT
SCALE NONE	SHEET 16 OF 29	
DATE NOVEMBER 2018		



PERIMETER SECURITY FENCE TYPICAL CORNER



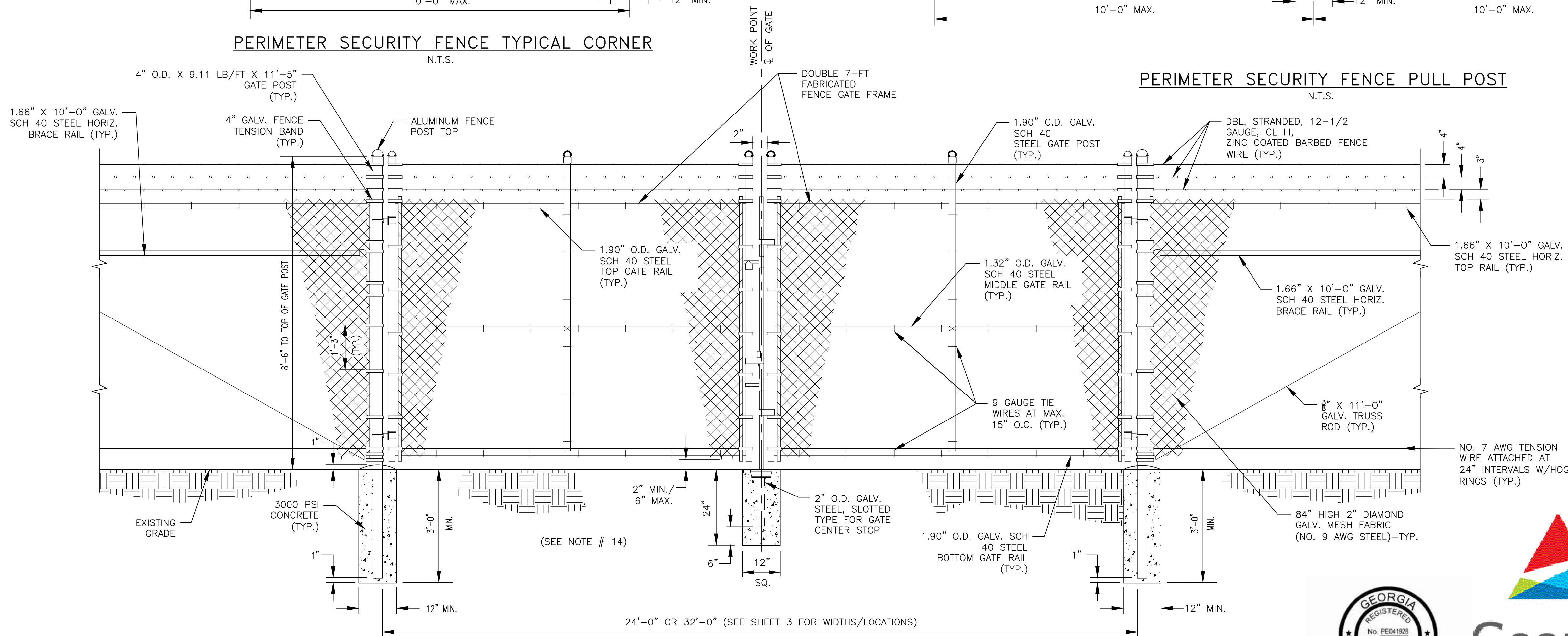
PERIMETER SECURITY FENCE PULL POST

REFERENCES:

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2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
3. SEE SHEET 2 FOR GENERAL NOTES AND REFERENCES.

FENCE


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3. LIMIT TENSION IN FABRIC AND WIRE TO PREVENT BENDING OF GATE POSTS AND CORNER POSTS.
4. WHEN GATE PANEL IS INSTALLED ON A CORNER POST, THE LATCH SHOULD BE INSTALLED ON THE OPPOSITE PANEL.
5. PULL POSTS WILL BE INSTALLED AT APPROXIMATELY MID-SPAN WHERE SPACING BETWEEN CORNER POSTS OR TERMINAL POSTS EXCEEDS 100 FEET TO PROVIDE FENCE GROUNDING POINT PER NESC, OR WHERE IT IS NECESSARY TO TERMINATE THE FENCE DUE TO A CHANGE IN GRADE. MATERIAL FOR PULL POSTS TO BE SAME AS CORNER POSTS.
6. HINGE TO BE INSTALLED WITH GALVANIZED STEEL BOLT WITH TWO NUTS OR PREFERRED SELF-LOCKING TYPE NUT TO LOCK BOLT IN PLACE.
7. CHAIN FOR GATE TO BE ONE PIECE: $\frac{1}{2}$ " GALVANIZED STEEL, WELDED, SIZE 5/0, INSERTED BETWEEN GATE FRAME AND TENSION BAR, SUCH THAT A TIGHT FIT IS OBTAINED WITH LOCK INSTALLED FROM OUTSIDE GATE, EXCESS LINKS SHOULD BE REMOVED.
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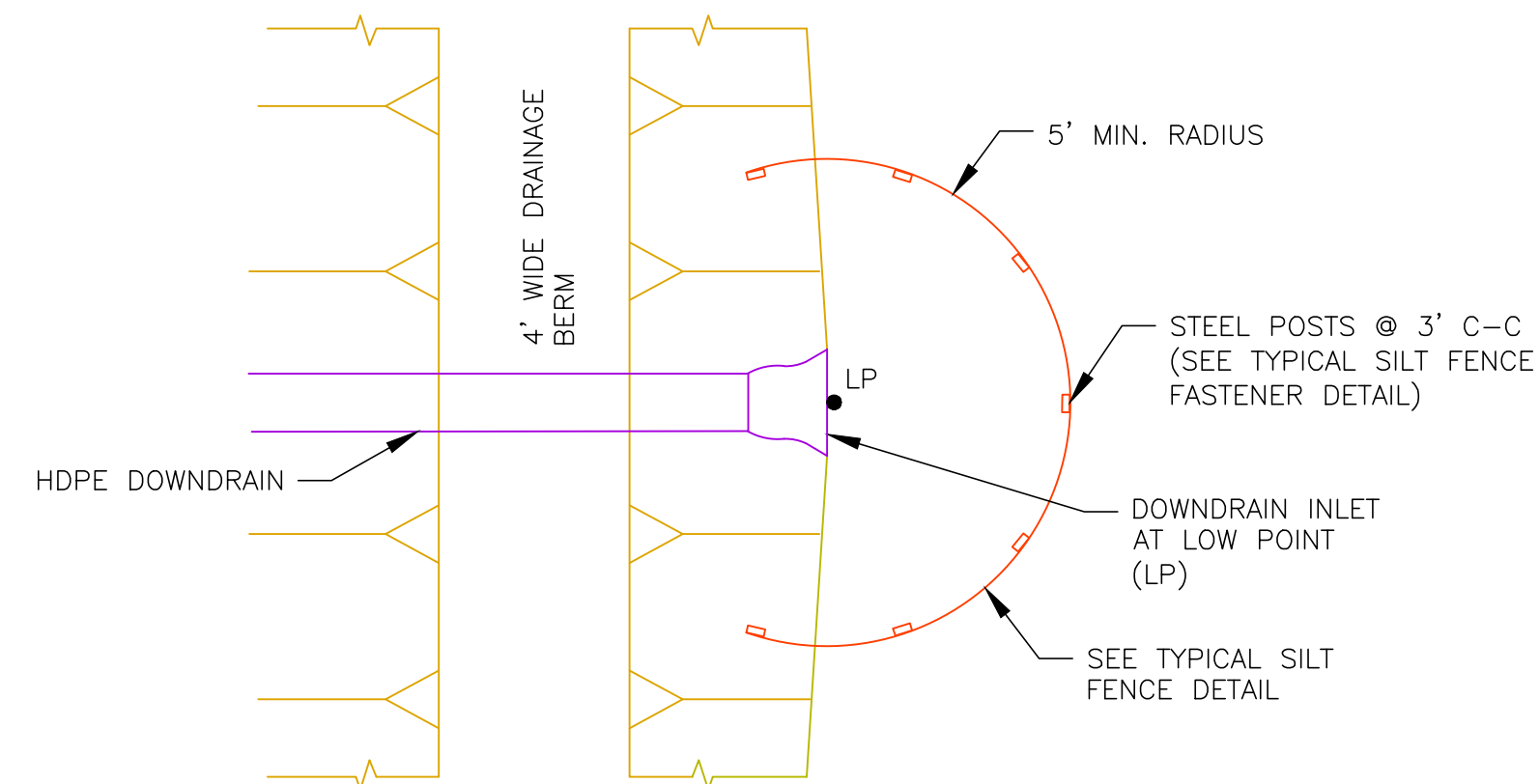


PERIMETER SECURITY FENCE 24' & 32' WIDE CHAINLINK DOUBLE SWING SECURITY GATE



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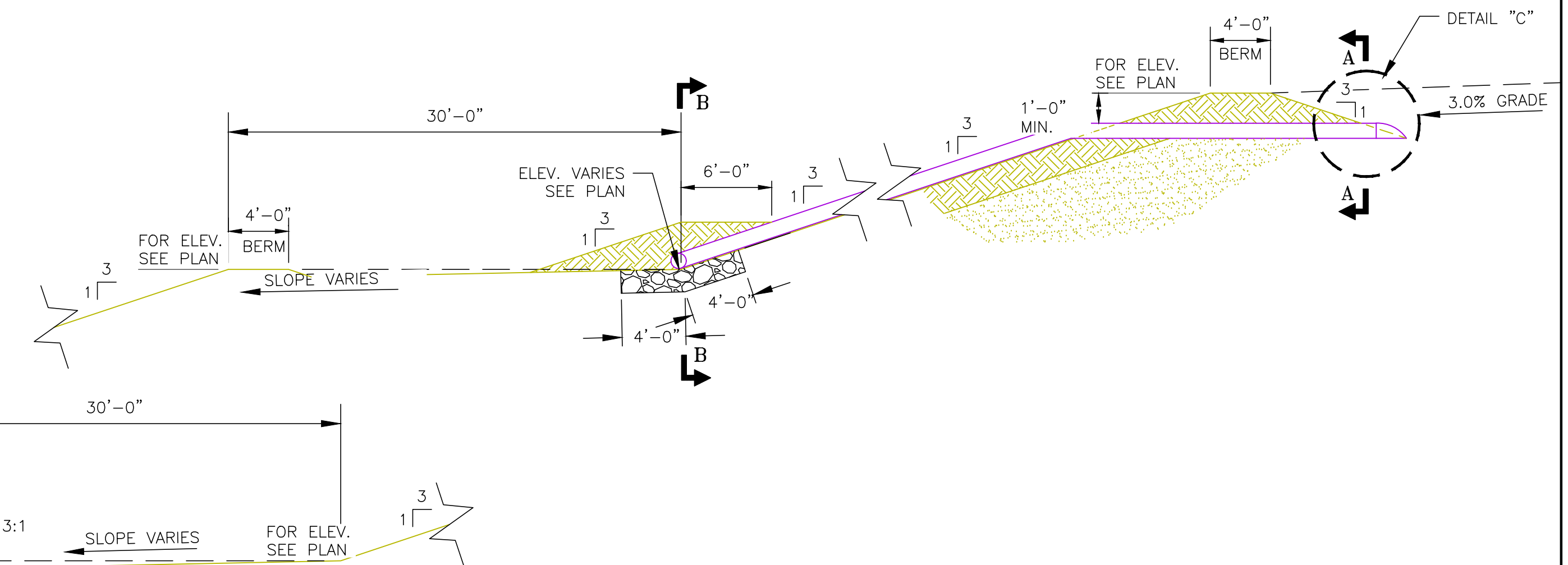
MISC. SECTIONS & DETAILS		
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(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 17	EDIT
SCALE NONE	SHEET 17 OF 29	
DATE NOVEMBER 2018		



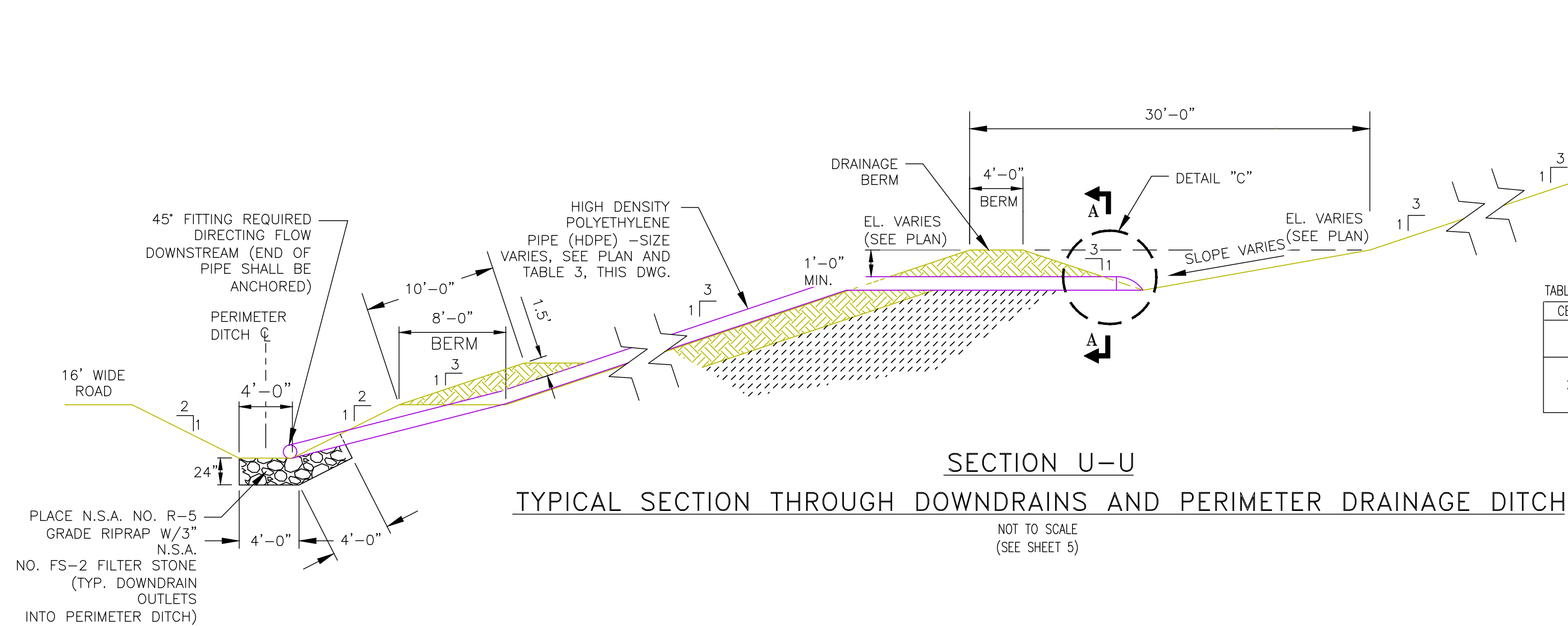
PIPE DIAMETER	A (1±)	B MAX	H (1±)	L (1/2±)	W (2±)
12"	6.5	10	6.5	25	29
15"	6.5	10	6.5	25	29

ALL DIMENSION ARE IN INCHES

END SECTION DIMENSIONS
NOT TO SCALE



CELL	LIFT	DIAMETER (IN.)
1	SECOND	N/A
	FIRST	15
2	THIRD	N/A
	SECOND	12
	FIRST	15



REFERENCES:

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EROSION CONTROL SECTIONS & DETAILS

PERMIT DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)
EXISTING LANDFILL NO. 4
EFFINGHAM, GEORGIA



1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

(404) 592-0050

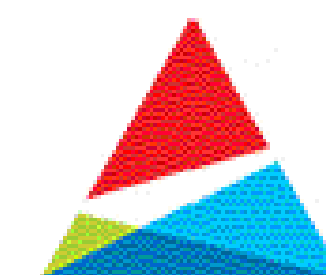
<https://www.geiconsultants.com/>

PROJ. NO.	1702944
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SCALE	NONE
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WG.	18	EDIT
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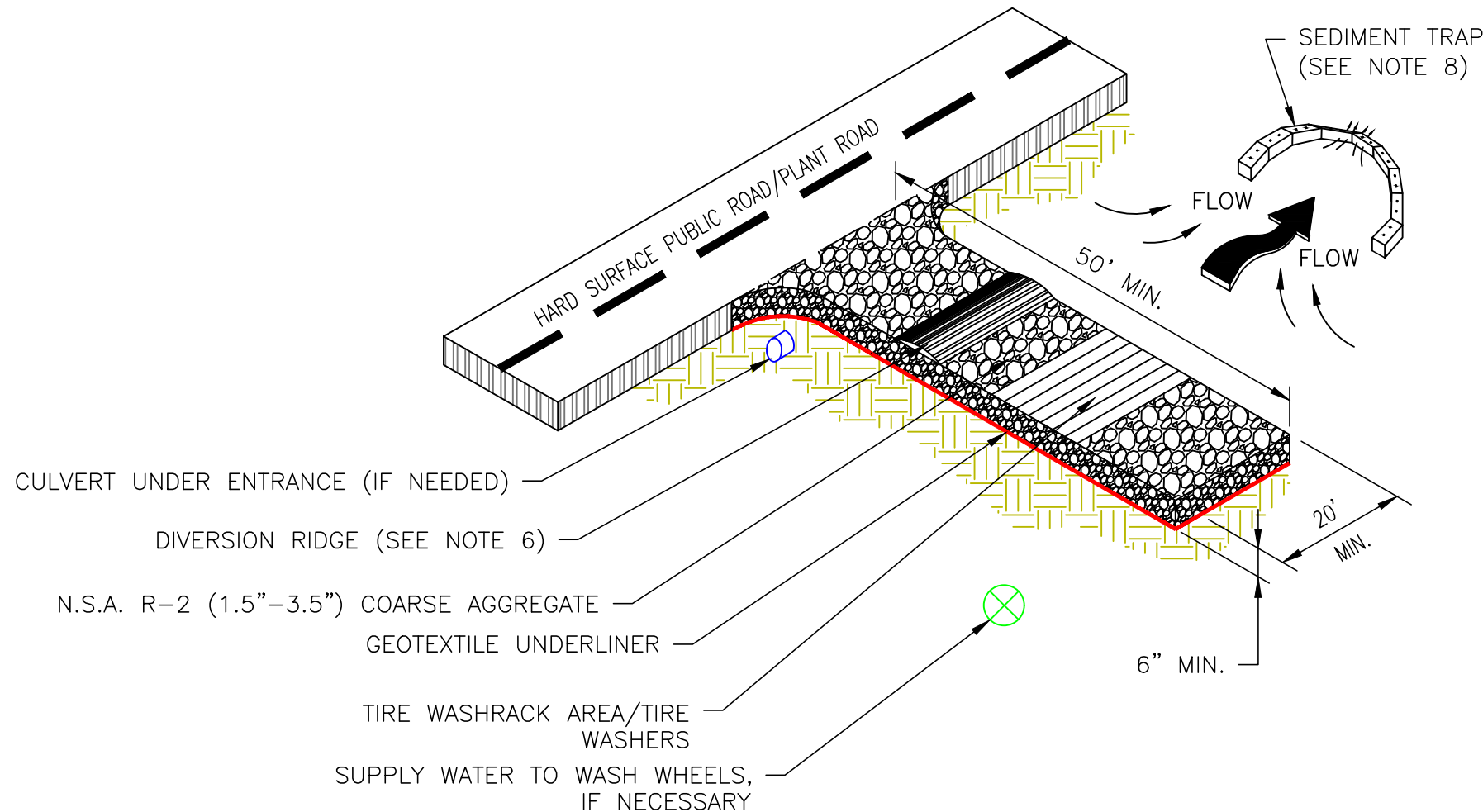
SHEET 18 OF 29



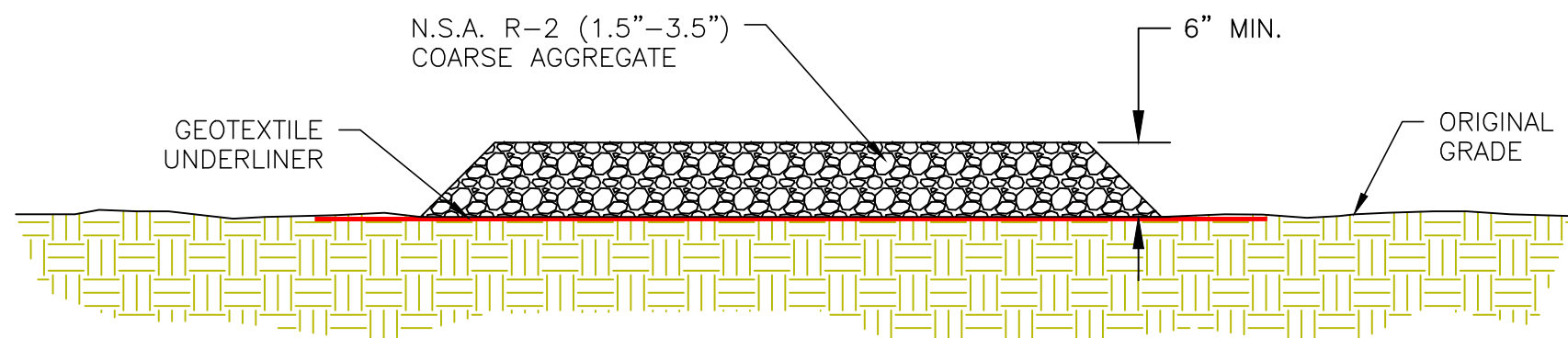
Georgia Power

NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



EXIT DIAGRAM



ENTRANCE ELEVATION

CRUSHED STONE CONSTRUCTION EXIT

N.T.S.

Co

DEFINITION

A TEMPORARY GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

CONDITIONS

THIS PRACTICE IS APPLICABLE FOR USE IN SMALL OPEN CHANNELS AND IS NOT TO BE USED IN A LIVE STREAM. SPECIFIC APPLICATIONS INCLUDE:

1. TEMPORARY OR PERMANENT SWALES OR DITCHES IN NEED OF PROTECTION DURING ESTABLISHMENT OF GRASS LININGS.
2. TEMPORARY OR PERMANENT SWALES OR DITCHES WHICH, DUE TO THEIR SHORT LENGTH OF SERVICE OR OTHER REASONS, CANNOT RECEIVE A PERMANENT NON-ERODIBLE LINING, FOR AN EXTENDED PERIOD OF TIME.
3. OTHER LOCATIONS WHERE SMALL LOCALIZED EROSION AND RESULTING SEDIMENTATION PROBLEMS EXIST.

SPECIFICATIONS:

THE FOLLOWING TYPES OF CHECK DAMS ARE USED FOR THIS STANDARD:

STONE CHECK DAM

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2-10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR

SWALE AND THAT CENTER OF THE DAM IS LOWER THAN THE EDGES. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.

SPACING:

TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

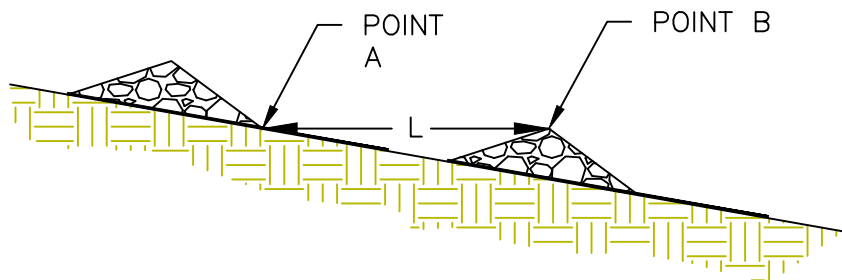
GEOTEXTILES:

A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.3, SEPARATION REQUIREMENTS, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

MAINTENANCE:

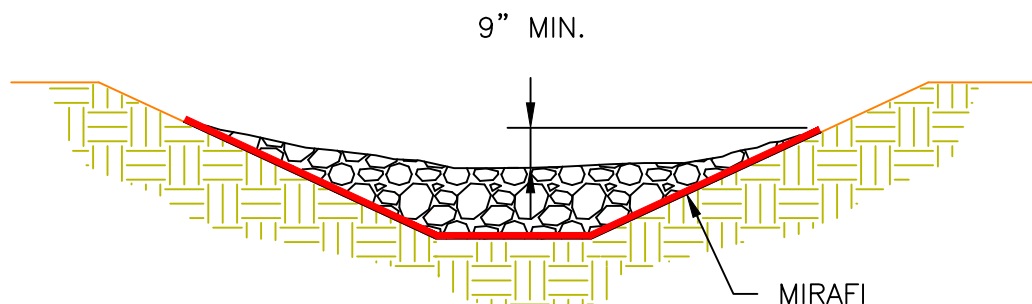
PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



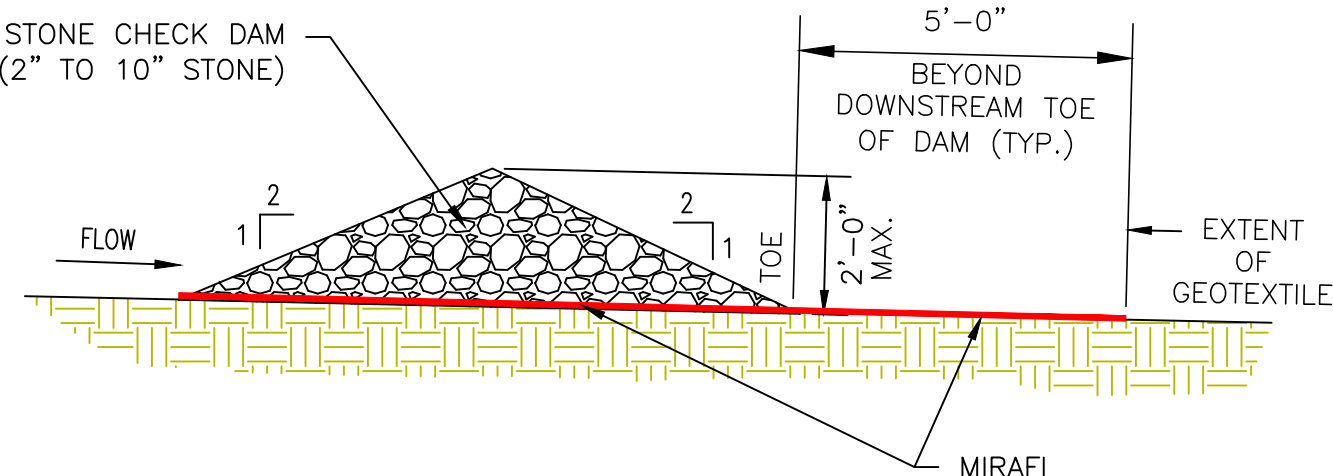
SPACING BETWEEN CHECK DAMS

N.T.S.



CROSS SECTION

N.T.S.



PROFILE VIEW

N.T.S.

CHECK DAM - STONE CHECK DAM

N.T.S.

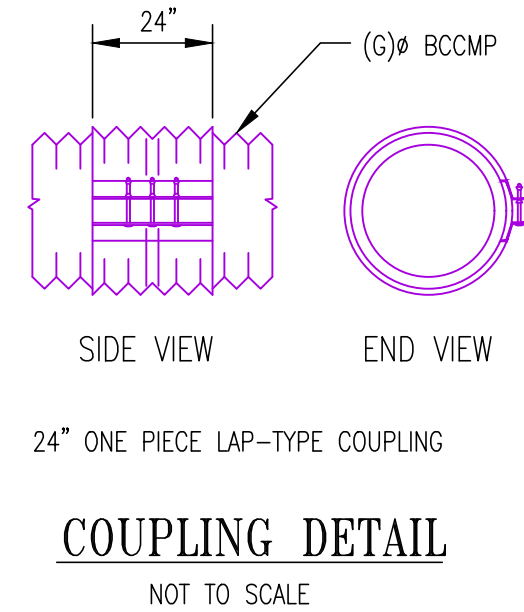
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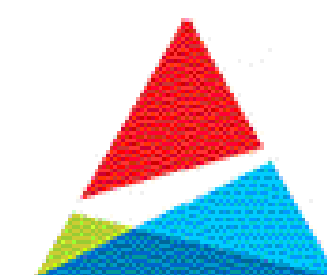
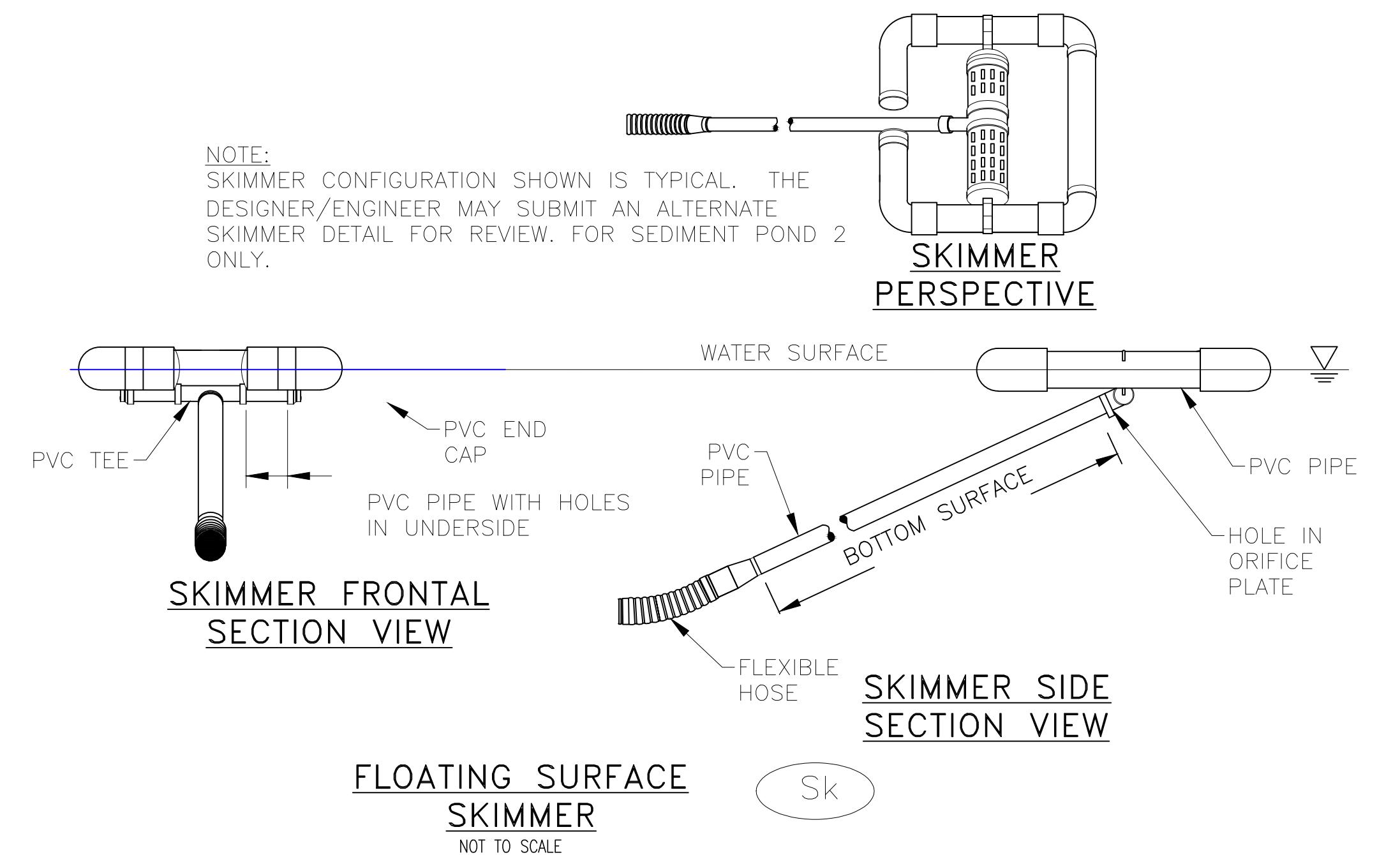
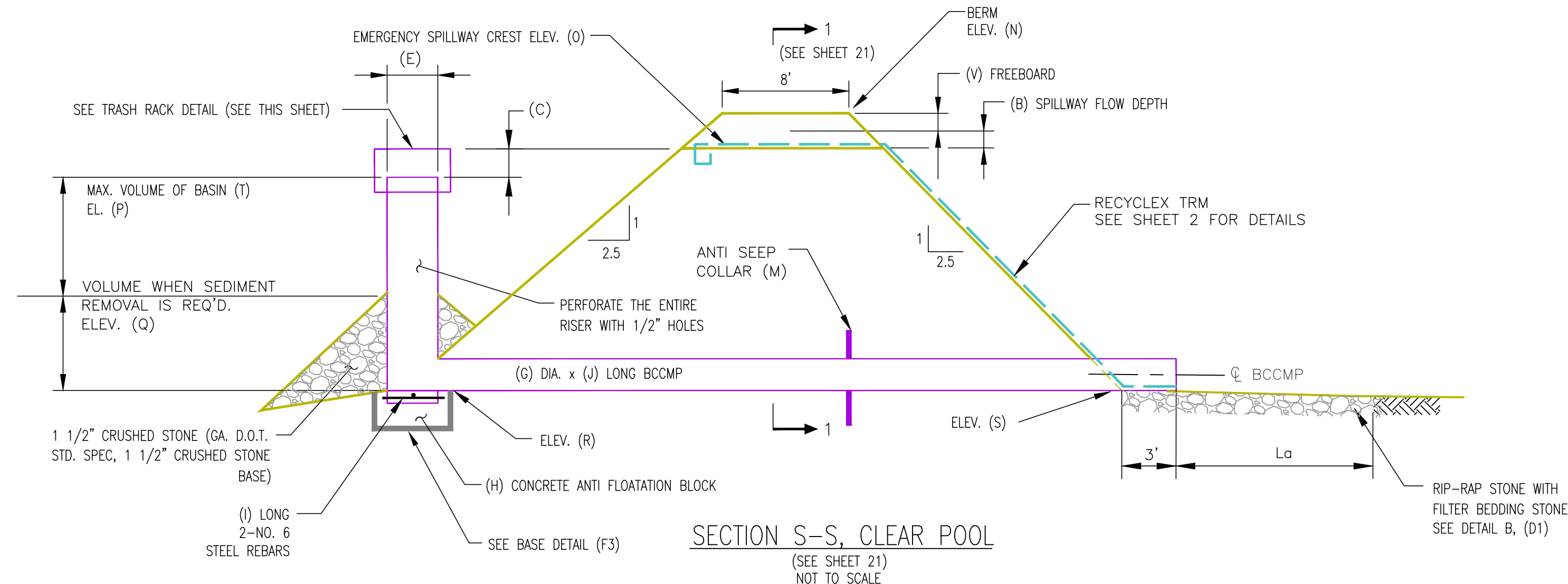
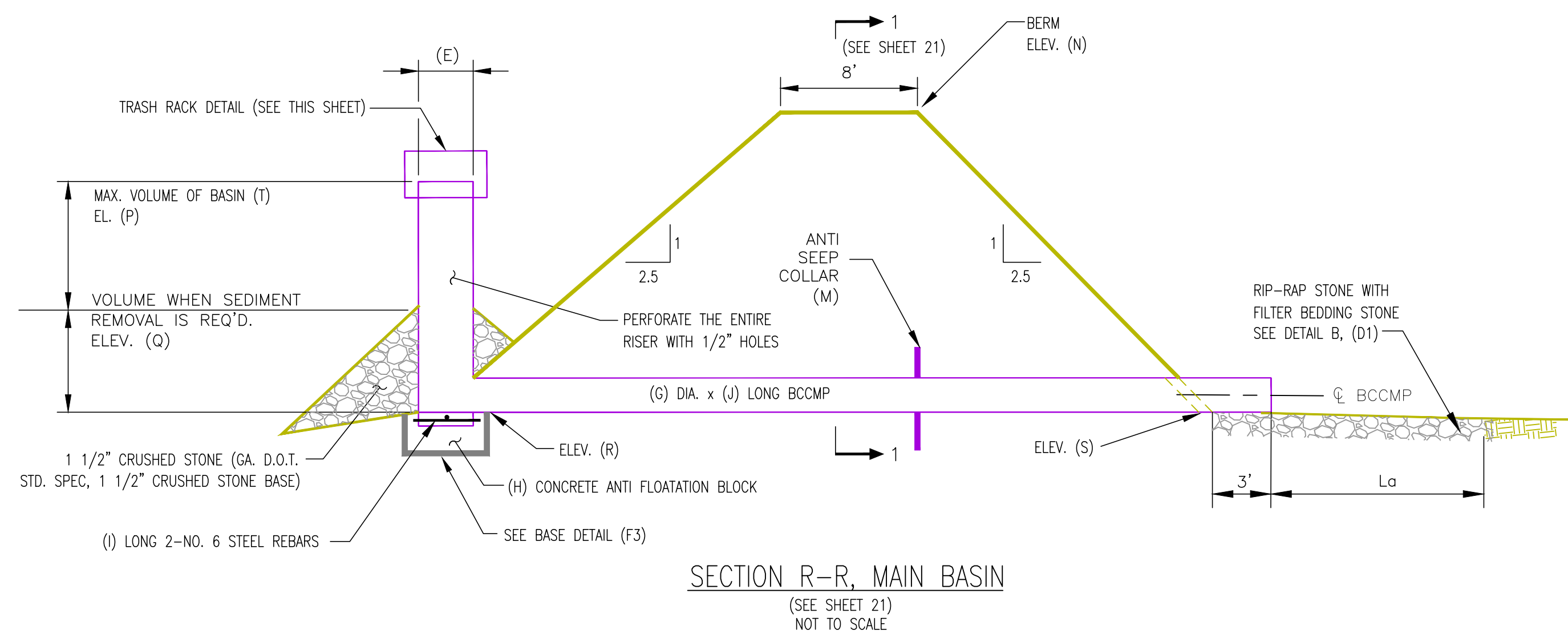
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
3. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.




EROSION CONTROL SECTIONS & DETAILS		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
GEI Consultants 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 19	EDIT
SCALE NONE	SHEET 19 OF 29	
DATE NOVEMBER 2018		



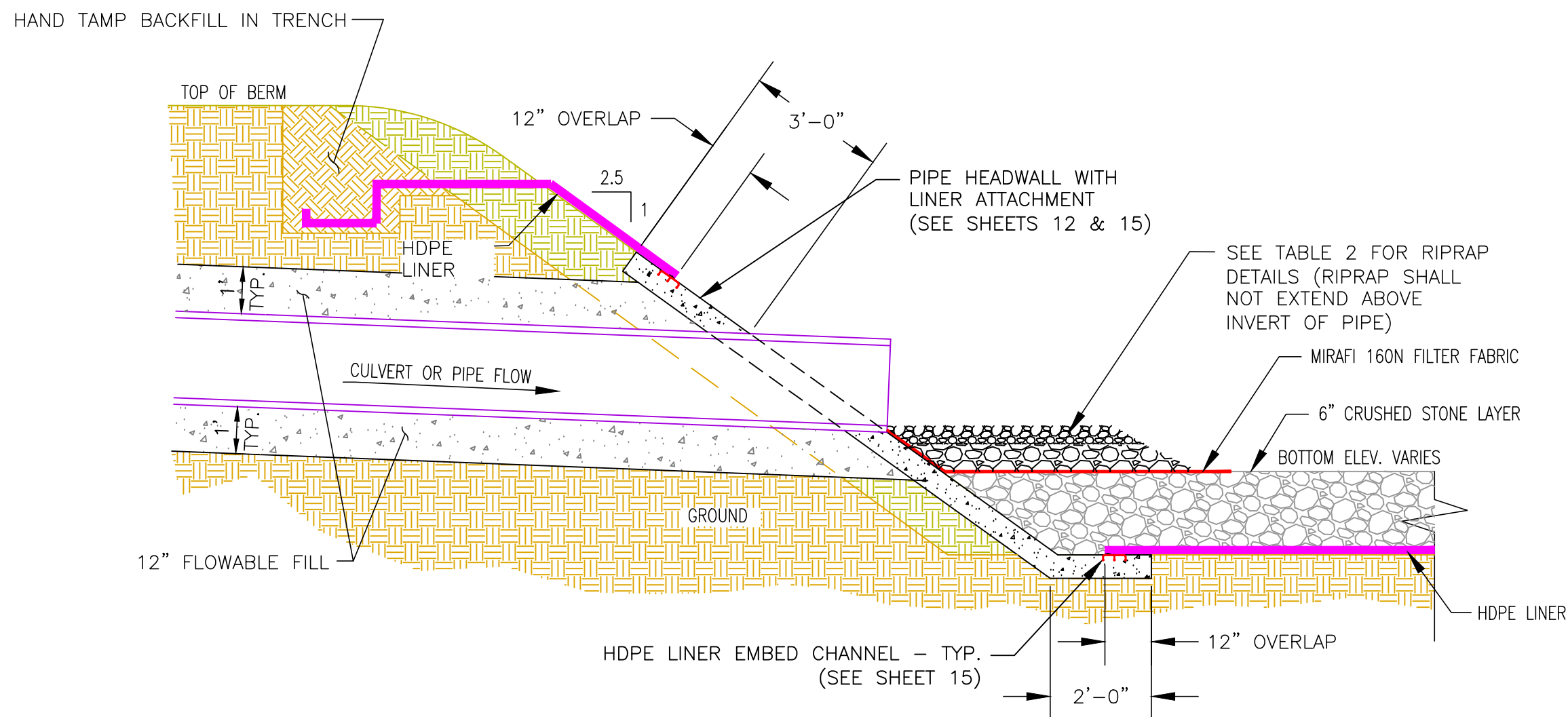
	Sediment Pond 1	Clear Pool 1	Detention Pond 1
Top Width of Berm	A 8'	8'	70'
Emergency Spillway Flow Depth	B NA	1.0'	1.0'
Storage Level – Difference Between Riser and Emer. Spillway	C NA	2.0'	2.0'
Trash Rack Diameter	D 96"	96"	72"
Riser Diameter	E 66"	66"	48"
Riser Length (Includes 9" into antifloatation block)	F 4'-9"	4'-9"	4'-0"
Principal Spillway Pipe Diameter	G 2'-4 1/2"		
Concrete Antifloatation Block	H 90" x 90" x 18"	90" x 90" x 18"	80" x 80" x 18"
Length of Riser Anchoring Bars (rebar)	I 84"	84"	74"
Length of Principal Spillway Pipe	J 61.8'	66.8'	115.0'
Emergency Spillway Bottom Width	K NA	20'	20'
Emergency Spillway Top Width	L NA	80'	44'
Antiseep Collar	M 78" x 78"	78" x 78"	18" x 18"
Elevation of Top of Berm, ft msl	N 46.0 ft msl	46.0 ft msl	52.0 ft msl
Elevation of Emergency Spillway Crest, ft msl	O NA	41.0 ft msl	50.0 ft msl
Elevation of Top of Riser, ft msl	P 40.0 ft msl	39.0 ft msl	46.0 ft msl
Elevation of Clean Out, ft msl	Q 37.0 ft msl	36.0 ft msl	42.5 ft msl
Elevation of Principal Spillway at Inlet, ft msl (Bottom Pond El.)	R 36.0 ft msl	35.0 ft msl	42.0 ft msl
Elevation of Principal Spillway at Outlet, ft msl	S 35.7 ft msl	34.7 ft msl	41.0 ft msl
Maximum Volume of Basin, cubic feet	T 7969	2986	1233
Clean Out Volume, cubic feet	U 1861	658	405
Freeboard	V 6'	4'	1'



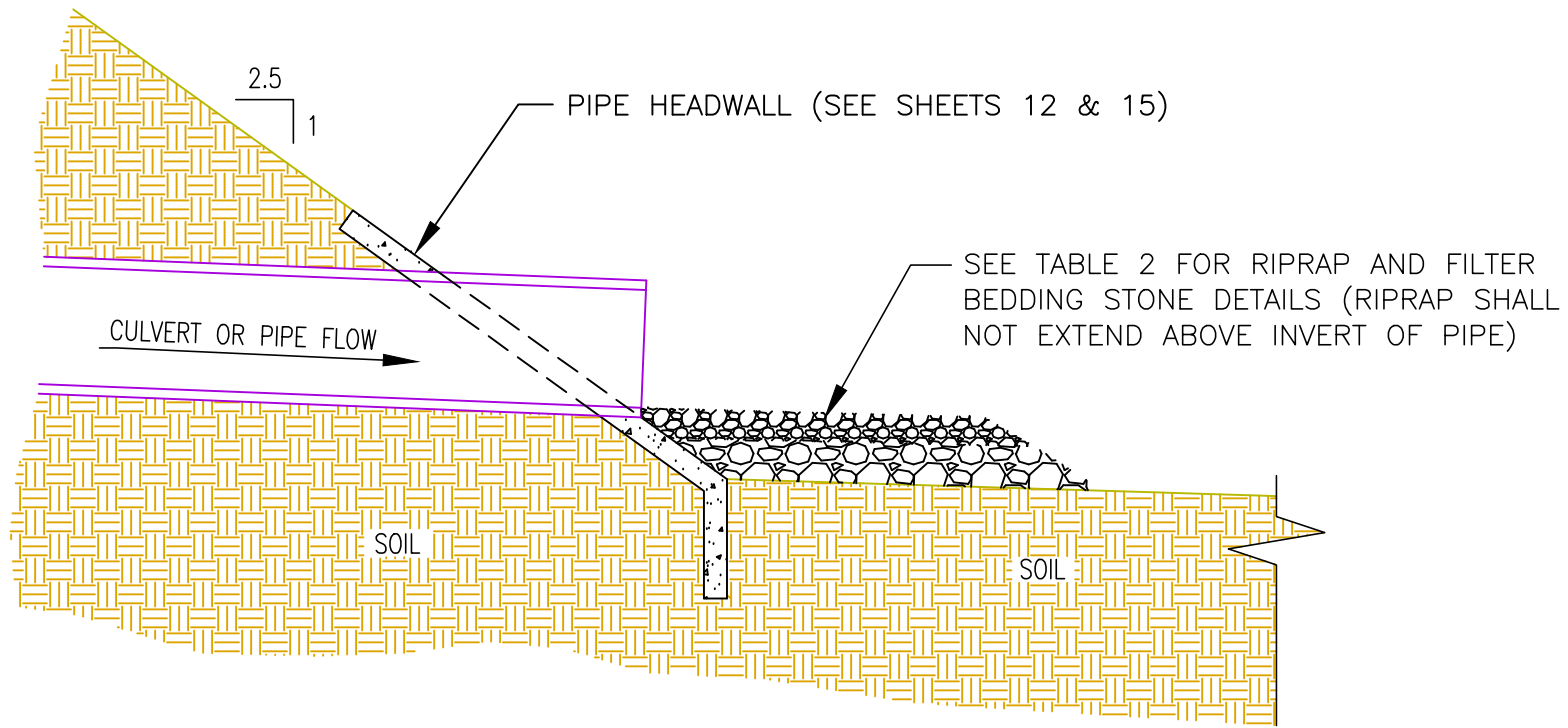
Georgia
Power

EROSION CONTROL SECTIONS & DETAILS		
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: left;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">GEI</p> <p style="font-size: 0.8em; margin: 0;">Consultants</p> </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p style="margin: 0;">1375 PEACHTREE STREET NE, SUITE A15</p> <p style="margin: 0;">ATLANTA, GEORGIA 30309</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div> <p>(404) 592-0050</p> <p>https://www.geiconsultants.com/</p> </div> </div>		

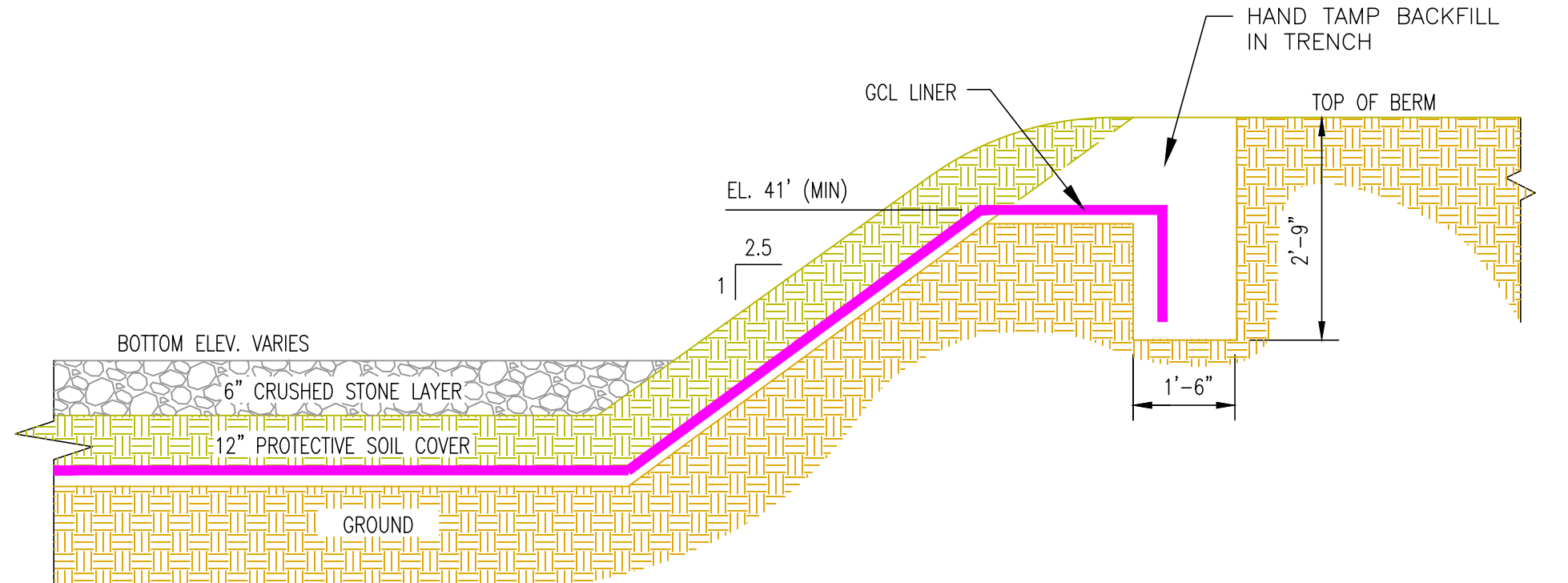
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DATE	NOVEMBER 2018			



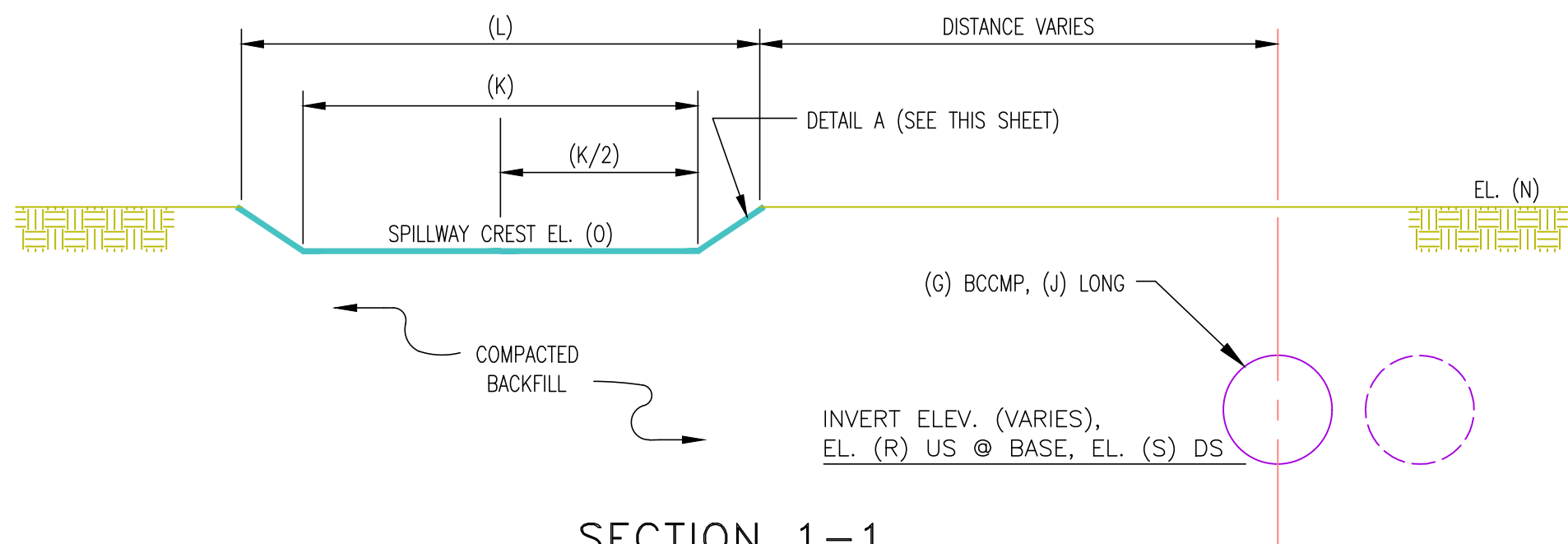
RIPRAP PLACEMENT
PIPE HEADWALL WITH LINER ATTACHMENT
SIDE VIEW
NOT TO SCALE



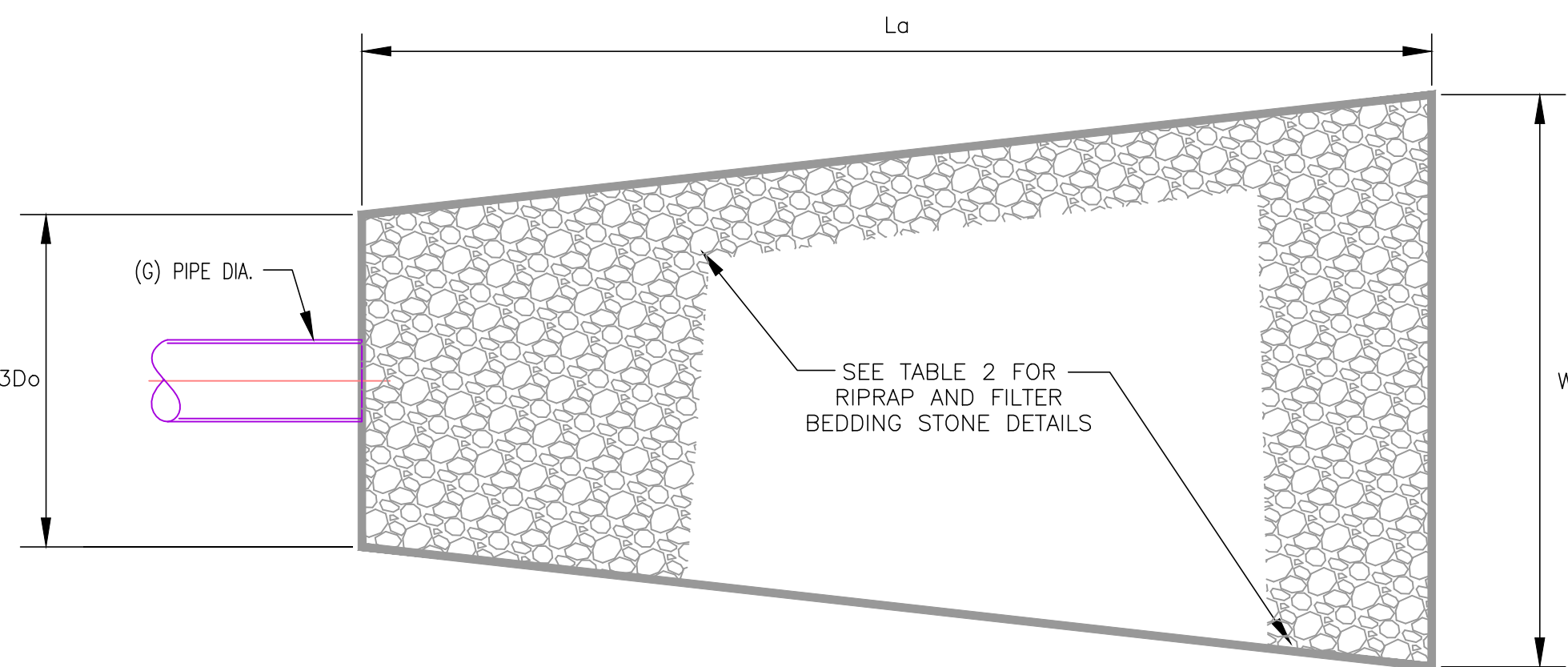
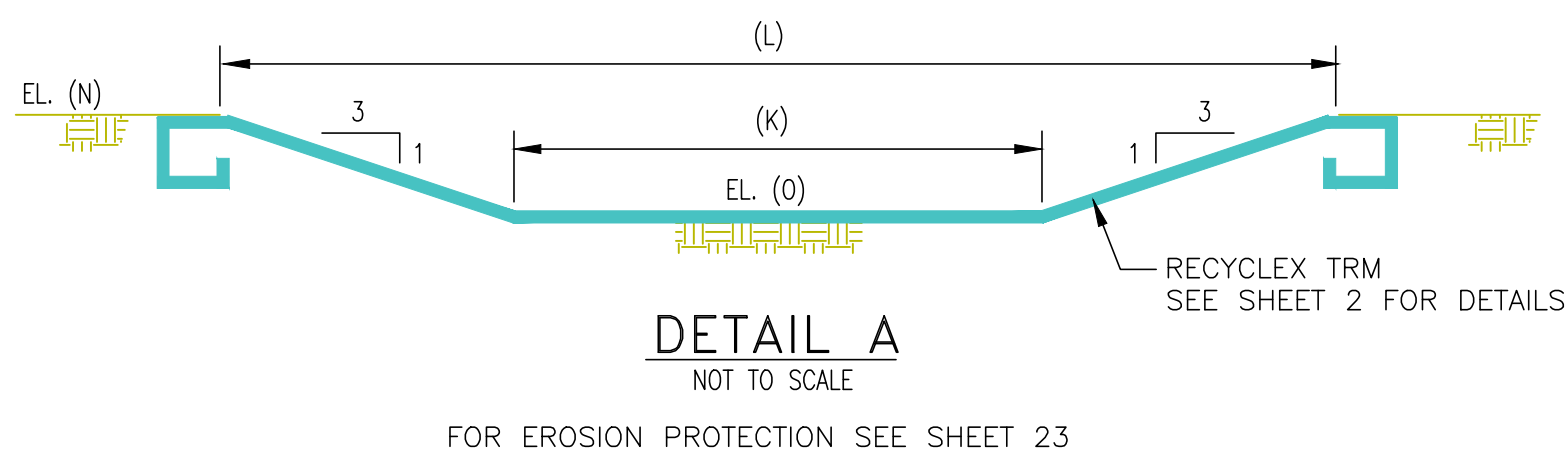
RIPRAP PLACEMENT IN UNLINED AREA
SIDE VIEW
NOT TO SCALE



SEDIMENTATION POND 1 AND CLEAR POOL 1
MARKER BED DETAIL
NOT TO SCALE
REFERENCE LINED POND 1



SECTION 1-1
(SEE SHEET 20)
NOT TO SCALE



DETAIL B, SECTION R-R, S-S
NOT TO SCALE

TABLE 2 - DETENTION POND, SEDIMENTATION POND AND CLEAR POOL RIPRAP DETAILS

	Pipe Dia.	La	3Do	W	Thickness	Riprap	Filter Bedding Stone
Detention Pond 1	30"	16'	7.5'	18.5'	13.6"	N.S.A. #R-4	N.S.A. #FS-2
Sediment Pond 1	2-42"	32'	10.5'	35.5'	45"	N.S.A. #R-7	N.S.A. #FS-3
Clear Pool 1	42"	23'	10.5'	26.5'	27"	N.S.A. #R-5	N.S.A. #FS-2
Wheel Wash Makeup Reservoir	4-24"	26'	16'	24'	27"	N.S.A. #R-5	N.S.A. #FS-2

CULVERT OUTLET RIPRAP DETAILS

Location	Pipe Dia.	Pipe Type	Inlet Invert El.	Outlet Invert El.	Pipe Length	La	3Do	W	Riprap	*Depth	Filter Bedding Stone
Access Rd Culv	24"	ADS N-12	61.00'	60.36'	64'	13'	6'	15'	N.S.A. #R-4	10.8"	N.S.A. #FS-2
Cell 1 Berm West Culv	24"	RCP	56.35'	55.81'	54'	13'	4'	7.2'	N.S.A. #R-2	9.6"	N.S.A. #FS-1
Cell 1 Berm East Culv	30"	RCP	56.33'	55.99'	46'	14'	4'	4'	N.S.A. #R-4	4.2"	N.S.A. #FS-2
Cell 2 (Phase 1) Perimeter Ditch to Sed. Pond	3-30"	ADS N-12	45.85'	45.63'	44'	16'	22.5'	26.7'	N.S.A. #R-3	13.6"	N.S.A. #FS-2
Cell 2 (Phase 2) Perimeter Ditch to Exterior Ditch	2-30"	ADS N-12	44.00'	43.51'	49'	16'	8'	8'	N.S.A. #R-3	13.6"	N.S.A. #FS-2
Cell 2 (Phase 2) Exterior Ditch to Sed. Pond	2-30"	ADS N-12	42.95'	42.00'	95'	16'	15'	17.8'	N.S.A. #R-4	13.6"	N.S.A. #FS-2
Cell 1 Stack Access Culvert	24"	RCP	56.77'	56.94'	28'	13'	4'	4'	N.S.A. #R-4	10.8"	N.S.A. #FS-2
Cell 2 Stack Access Culvert	24"	RCP	49.97'	49.67'	50'	13'	4'	4'	N.S.A. #R-4	10.8"	N.S.A. #FS-2

GENERAL NOTES:

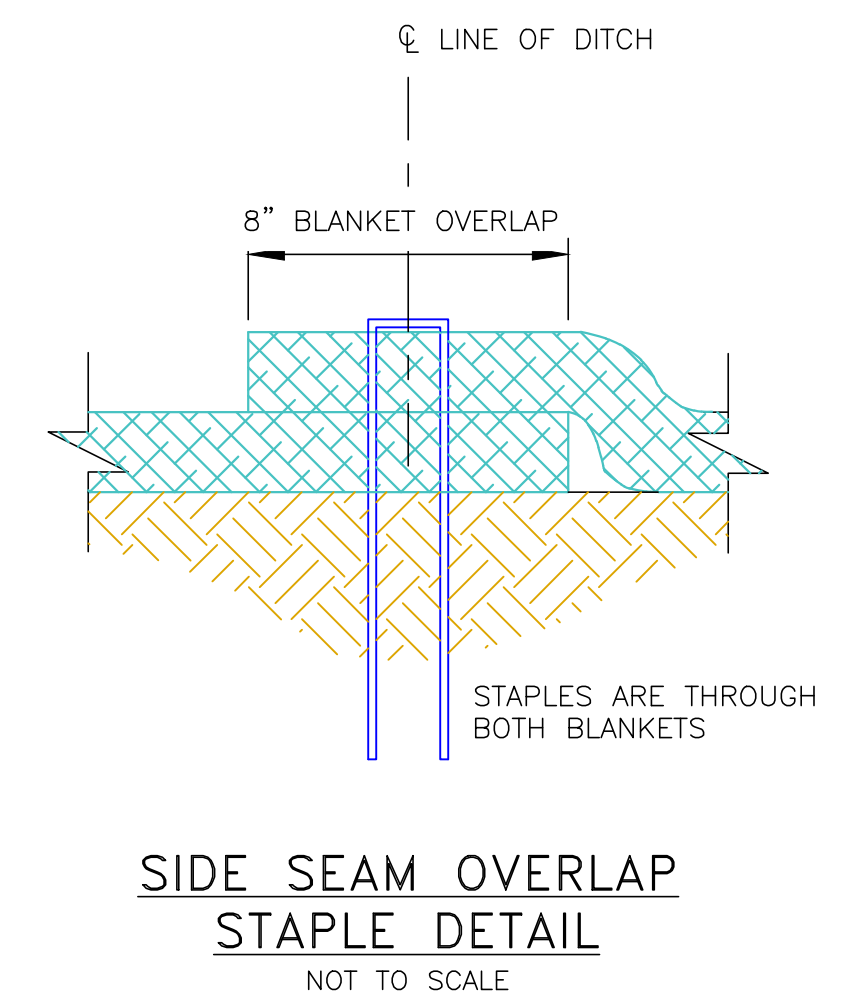
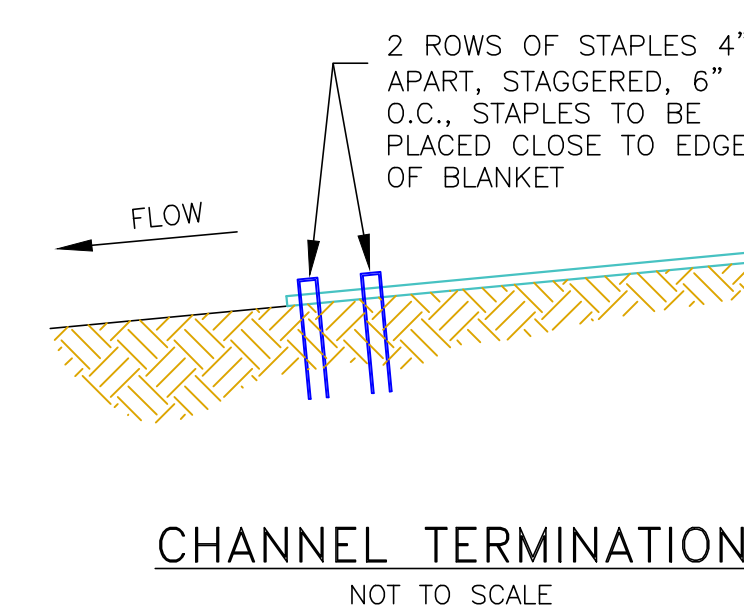
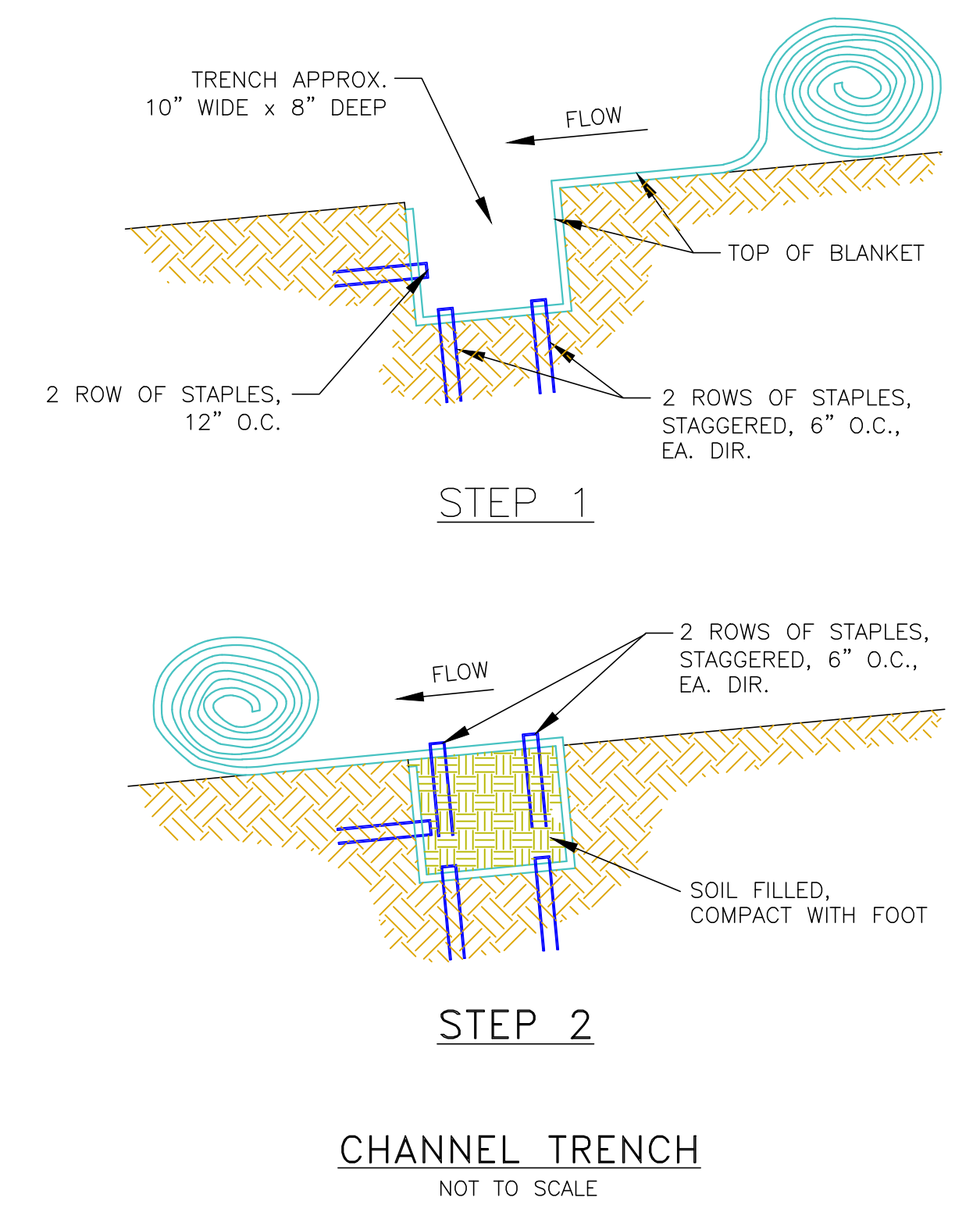
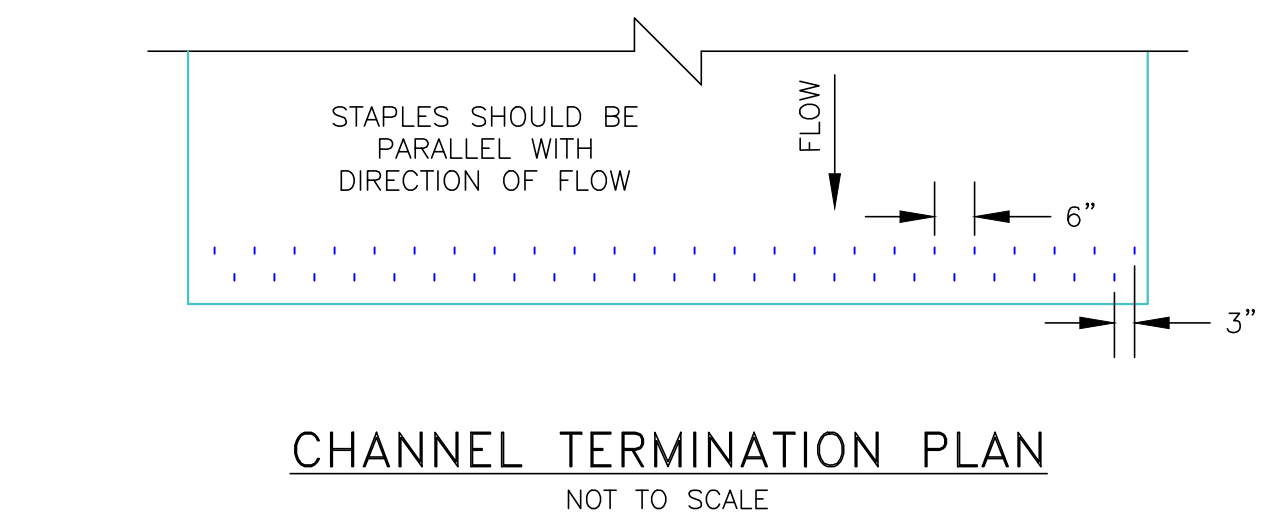
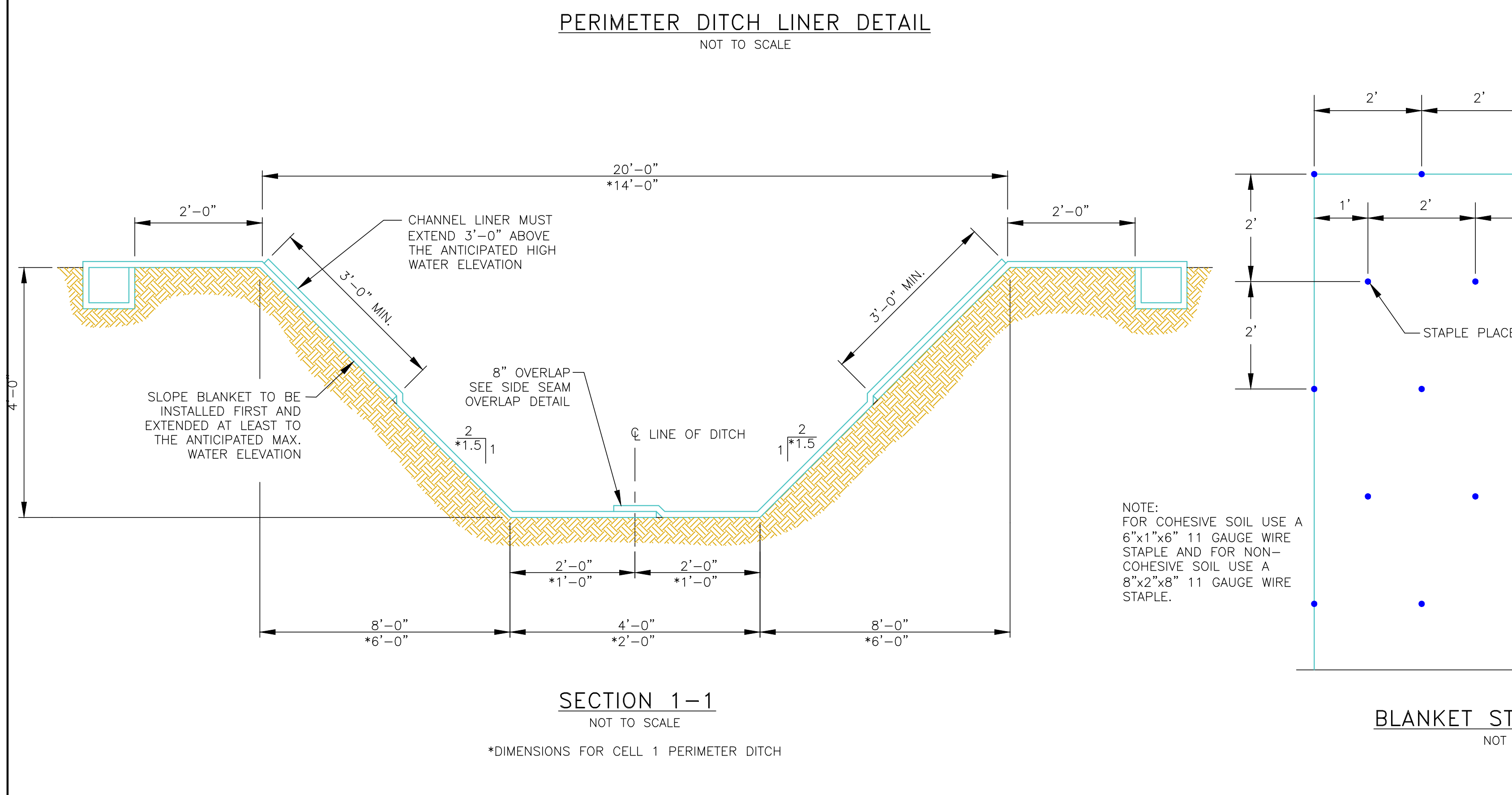
1. THE AREA TO RECEIVE THE PIPE SHALL BE HAND COMPACTED AND ANY SOFT OR UNSUITABLE MATERIAL REMOVED, THE AREA BACKFILLED, AND COMPACTED.
2. THE PIPE AND RISER SHALL BE PLACED ON FIRM, SMOOTH FOUNDATION.
3. THE BACKFILL MATERIAL SHALL BE CLEAN SOIL, FREE OF ROOTS, VEGETATION, OVERSIZED ROCKS, STONES OR OTHER OBJECTIONABLE MATERIAL.
4. AREAS ON WHICH FILL IS TO PLACED SHALL BE SCARIFIED PRIOR TO FILL PLACEMENT.
5. 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 H1C2700.
6. THE RISER SHALL BE SECURELY ATTACHED TO THE PIPE OR STUB BY WELDING THE FULL CIRCUMFERENCE MAKING A WATERTIGHT STRUCTURAL CONNECTION.
7. THE CONNECTION BETWEEN THE RISER AND THE RISER BASE SHALL BE WATERTIGHT.
8. ALL CONNECTIONS BETWEEN PIPE SECTIONS SHALL BE WATERTIGHT, ACHIEVED BY APPROVED WATERTIGHT BAND ASSEMBLIES.
9. 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.
10. CARE MUST BE TAKEN TO NOT RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.
11. A MINIMUM DEPTH OF 2 FT. OF HAND COMPACTED FILL SHALL BE PLACE DOVER THE PIPE BEFORE PLACING AND COMPACTING FILL WITH CONSTRUCTION EQUIPMENT.
12. TRASH RACK NUTS, BOLTS, THREADS AND RODS SHALL BE BITUMINOUS COATED AFTER INSTALLATION.
13. ALL DISTURBED SOIL AREAS SHALL BE GRASSED UPON REACHING FINAL GRADE IN ACCORDANCE WITH THE VEGETATION SCHEDULE, DRAWING H1C2709.

REFERENCES:

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 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 21	EDIT
SCALE NONE	SHEET 21 OF 29	
DATE NOVEMBER 2018		



- ## REFERENCES:
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EROSION CONTROL SECTIONS & DETAILS

PERMIT DRAWINGS

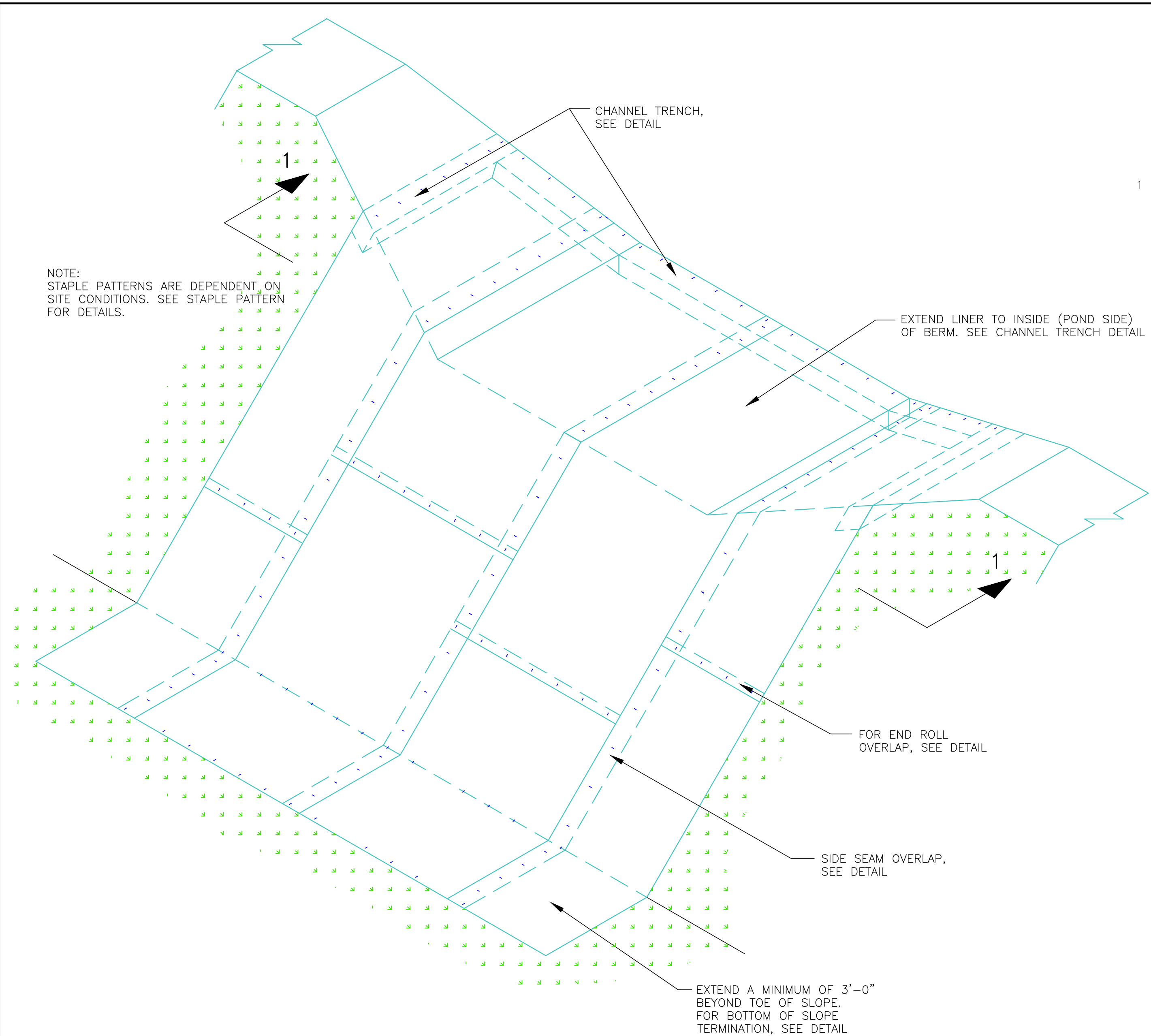
GEORGIA POWER COMPANY
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)
EXISTING LANDFILL NO. 4
EFFINGHAM, GEORGIA



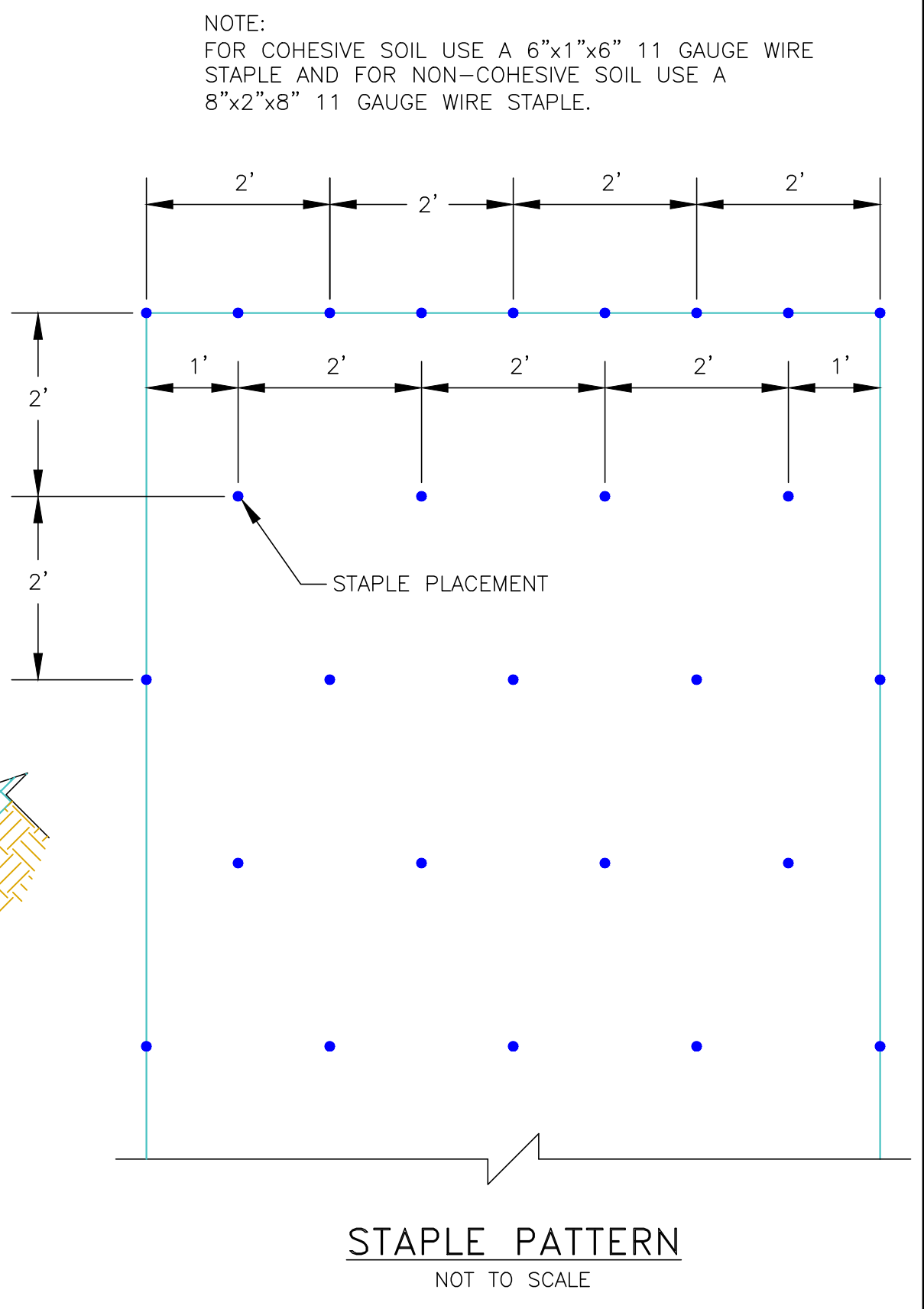
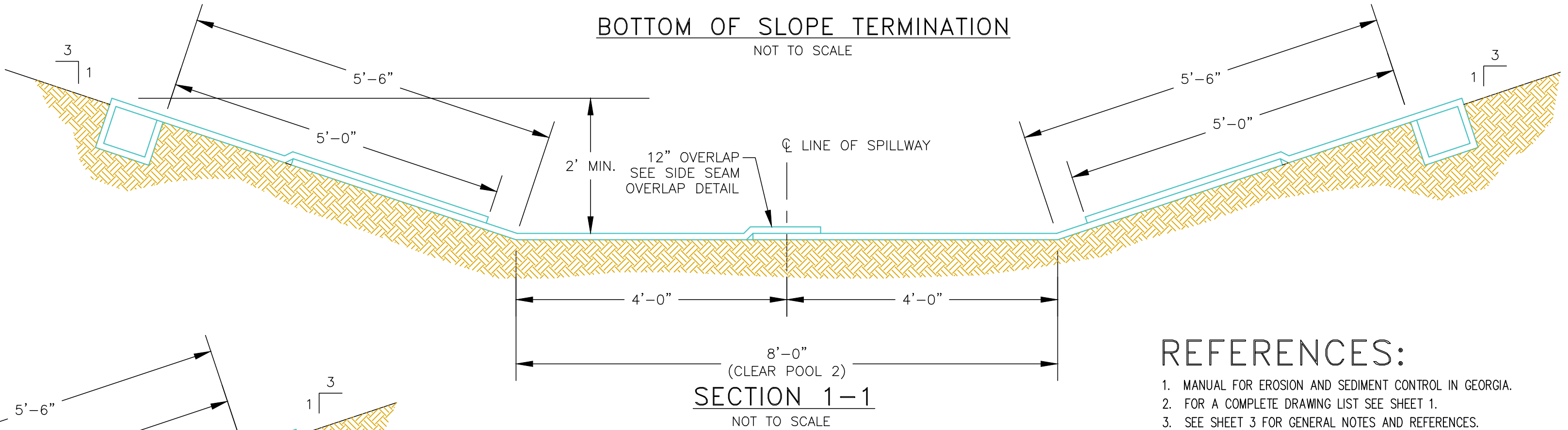
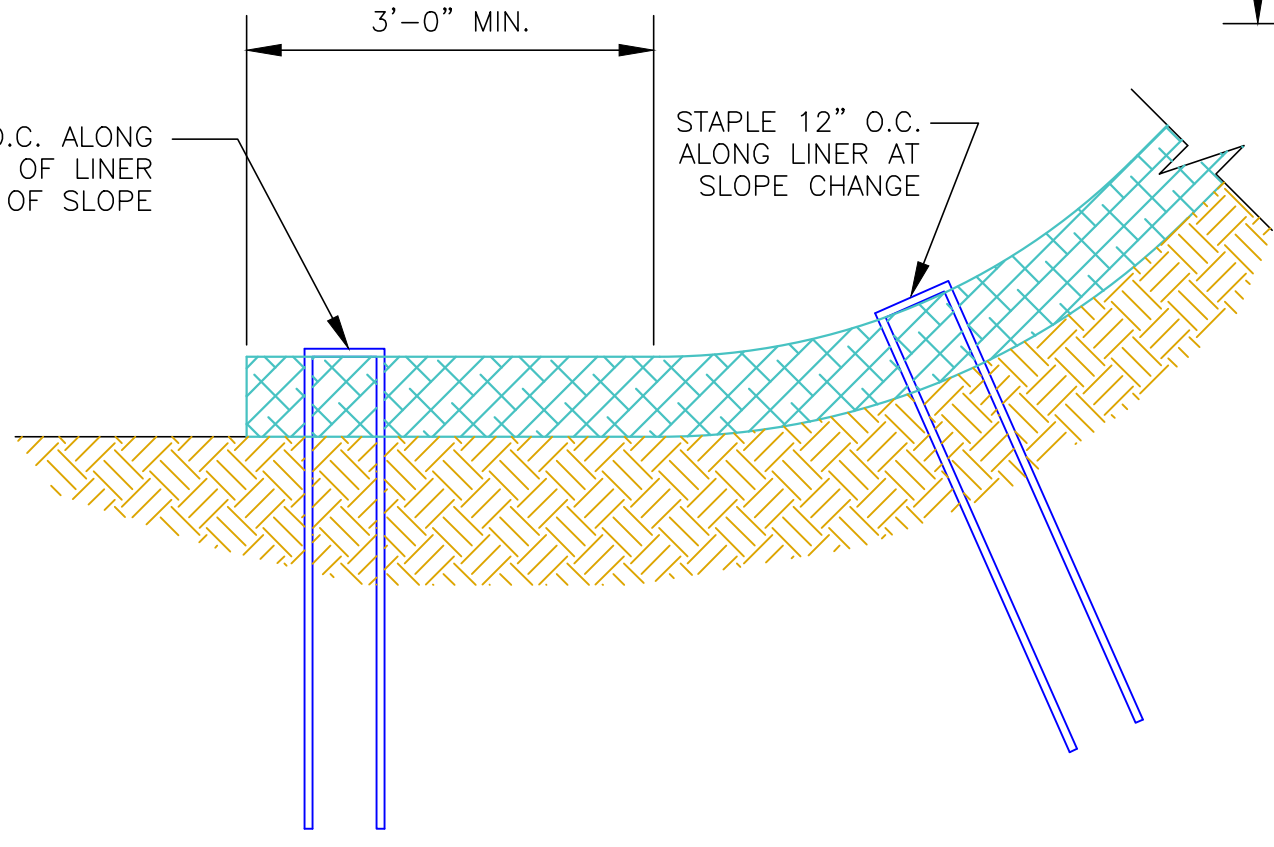
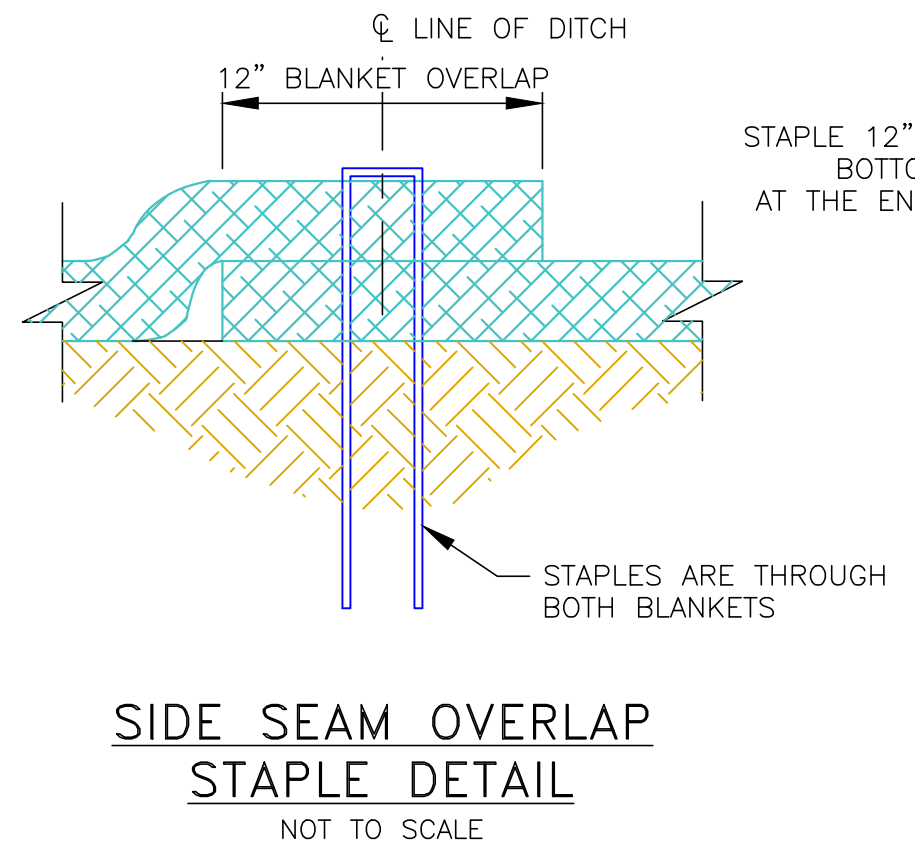
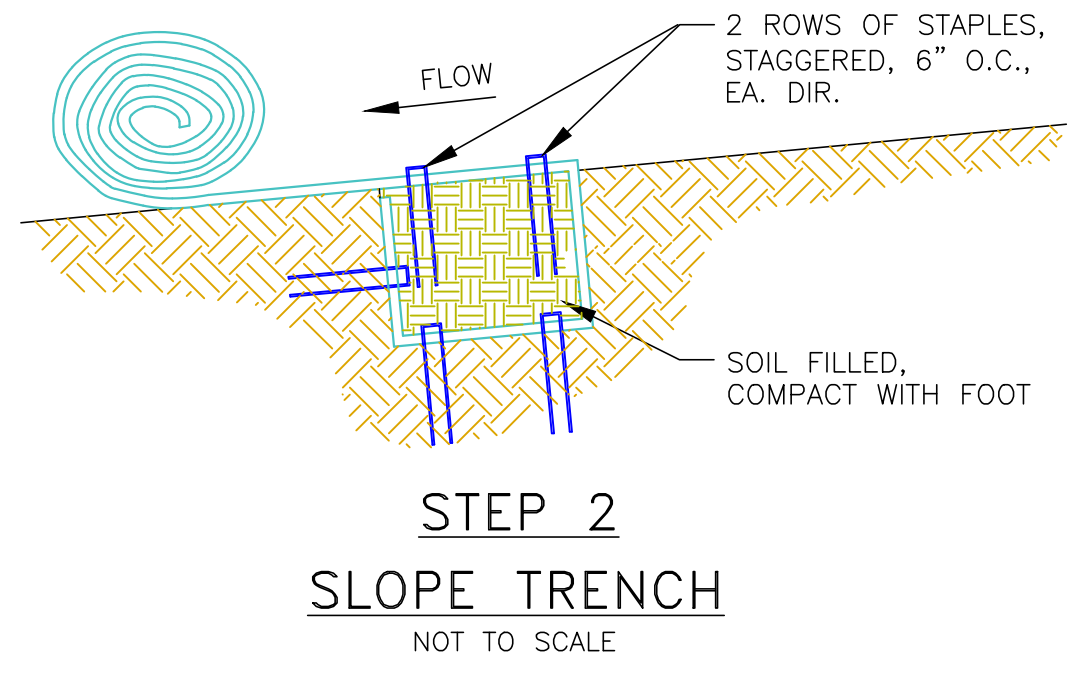
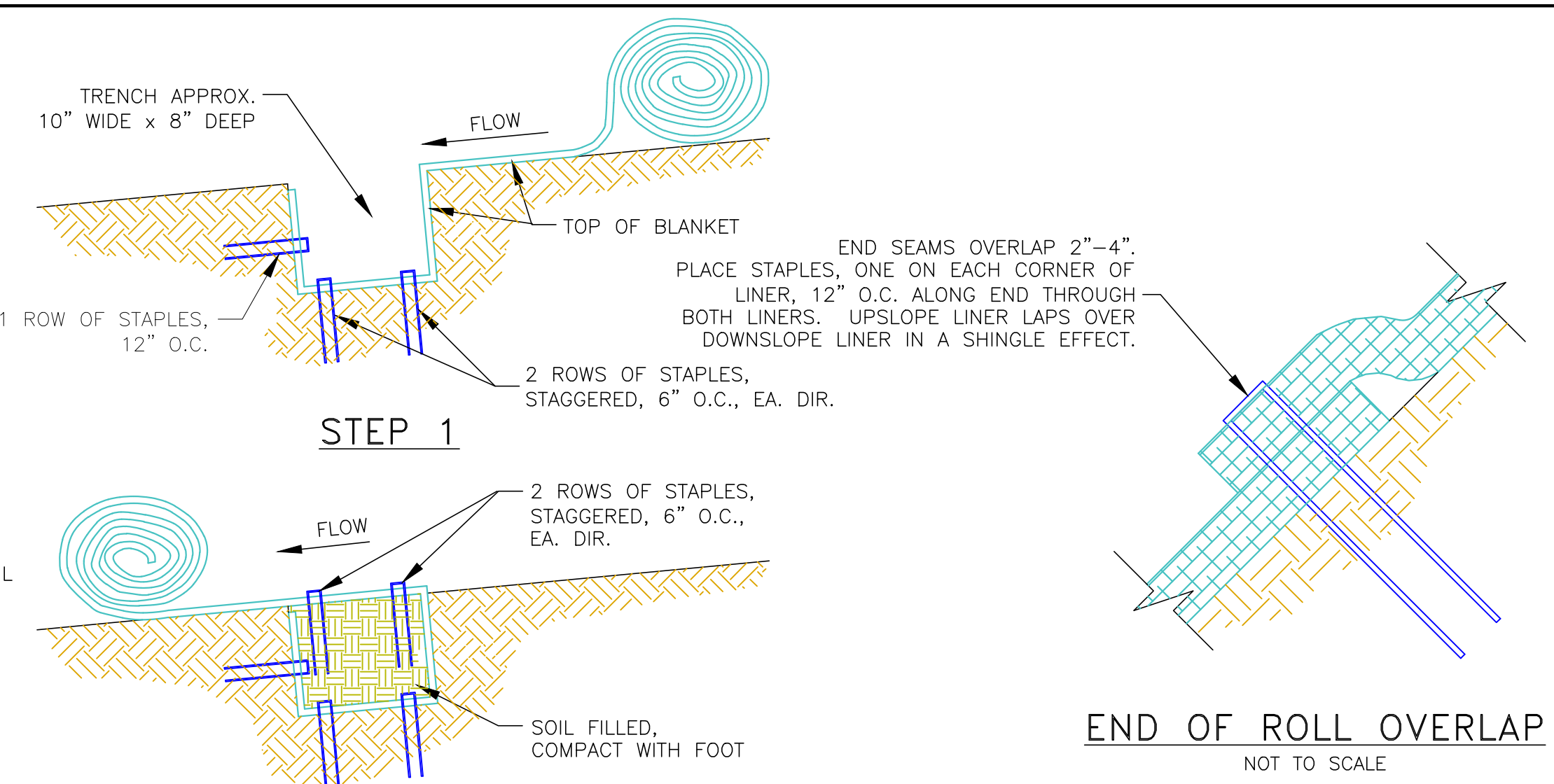
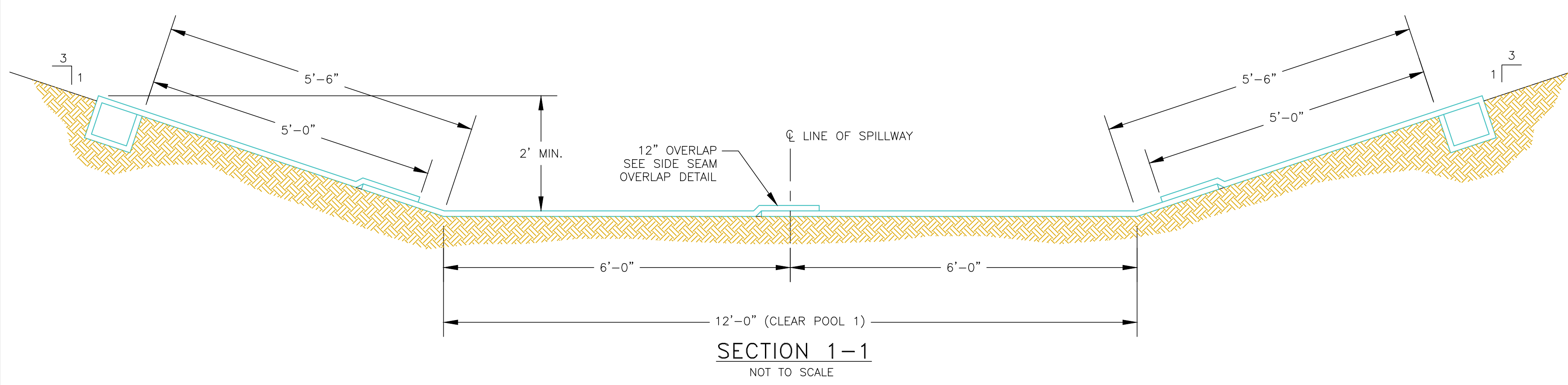
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1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

PROJ. NO.	1702944	DWG.	22	EDIT
SCALE	NONE	SHEET	22	OF 29
DATE	NOVEMBER 2018			




EMERGENCY SPILLWAY LINER DETAIL
NOT TO SCALE



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SCALE	NONE	SHEET 23 OF 29	
DATE	NOVEMBER 2018		

PLANT, PLANTING RATE & PLANTING DATE FOR PERMANENT COVER

SPECIES	BROADCAST RATES	PLANTING DATES												REMARKS
		J	F	M	A	M	J	J	A	S	O	N	D	
Pensacola Bahia alone or with temporary cover	60 lbs./ac													Low growing. Sod forming. Slow to establish. Plant with a companion crop. will spread into bermuda pastures and lawns. Mix with <i>Sericea Lespedeza</i> .
Wilmington Bahia with other perennials	30 lbs./ac													
Tall Fescue alone	50 lbs./ac													Use alone only on better sites. Mix with perennial lespedeza or Crownvetch. Apply top dressing in spring following fall plantings. <i>Nor for heavy use areas or athletic fields.</i>
Tall Fescue with other perennials	30 lbs./ac													
Reed Canary Grass alone	50 lbs./ac													Grows similar to Tall Fescue.
Reed Canary Grass with other perennials	30 lbs./ac													
Common Bermuda unhulled seed with temporary cover	10 lbs./ac													Plant with winter annuals
Common Bermuda unhulled seed w/other perennials	6 lbs./ac													Plant with Tall Fescue.

Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.

DEFINITION

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

CONDITIONS

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDEd AREAS.

SPECIFICATIONS

GRADING AND SHAPING
GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

SEEDBED PREPARATION
SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED (BUT IS STRONGLY RECOMMENDED FOR ANY SEEDING PROCESS, WHEN POSSIBLE). WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

- TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
- TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
- FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
- WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INNOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTI-PACKER-SEEDER, DRILL ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILLING SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

INDIVIDUAL PLANTS

SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS.

NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Ds3

FERTILIZER REQUIREMENTS

WARM SEASON GRASSES			
YEAR	EQUIVALENT N-P-K	ANALYSIS OR RATE	N TOP DRESSING RATE
First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.

COOL SEASON GRASSES			
YEAR	EQUIVALENT N-P-K	ANALYSIS OR RATE	N TOP DRESSING RATE
First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
Second	0-10-10	1000 lbs./ac.	-----
Maintenance	0-10-10	400 lbs./ac.	-----

WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL RECEIVE 75% TO 100% SOIL COVER. WHEN SELECTING A MULCH, DESIGN PROFESSIONALS SHOULD CONSIDER THE MULCH'S FUNCTIONAL LONGEVITY, VEGETATION ESTABLISHMENT ENHANCEMENT, AND EROSION CONTROL EFFECTIVENESS. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 1/4:1 OR STEEPER.
- SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
- BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS, SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED RIVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

- ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:
- HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
 - SYNTHETIC TACKIFIERS, FINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, FINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING. REFER TO TACKIFIERS-TAC IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION.
 - RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHED PER ACRE.
 - PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION

IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATION COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDEd AREAS.

CONDITIONS

TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES. (E.G. ANNUAL RYEGRASS). CONTACT NRCS OR THE LOCAL SWCD FOR MORE INFORMATION.

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LEDGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY pH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.

SEEDING SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, SULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND. SE TABLE 6-4.1 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION, 2014.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO Ds1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION, 2014.

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Ds2

SEEDING RATES FOR TEMPORARY SEEDING

BROADCAST		PLANTING DATES												COMMENTS
SPECIES	RATES	J	F	M	A	M	J	J	A	S	O	N	D	
Barley alone	144 lbs./ac													Winter hardy, use on productive soils
Barley in mixture	24 lbs./ac													
Lespedeza, Annual alone	40 lbs./ac													May volunteer for several years. Use inoculant EL.
Lespedeza, Annual in mixture	10 lbs./ac													
Lovegrass, Weeping alone	4 lbs./ac													May last for several years. Mix with Sericea Lespedeza.
Lovegrass, Weeping in mixture	2 lbs./ac													
Millet, Browntop alone	40 lbs./ac													Quick dense cover. Will provide too much competition in mixtures if seeded at high rates.
Millet, Browntop in mixture	10 lbs./ac													
Millet, Pearl alone	50 lbs./ac													Quick dense cover. May reach 5 feet in height. NOT recommended for mixtures.
Oats alone	128 lbs./ac													
Oats in mixture	32 lbs./ac													Use on productive soils. Not as winter hardy as rye or barley.
Rye alone	168 lbs./ac													
Rye in mixture	28 lbs./ac													Quick cover. Drought tolerant and winter hardy.
Ryegrass, Annual alone	40 lbs./ac													
Sudangrass alone	60 lbs./ac													Dense cover. Very competitive and NOT to be used in mixtures.
Triticale alone	144 lbs./ac													
Triticale in mixture	24 lbs./ac													Good on droughty sites. NOT recommended for mixtures.
Wheat alone	180 lbs./ac													
Wheat w/other perennials	30 lbs./ac													Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.

Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.

REFERENCES:

- MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- FOR A COMPLETE DRAWING LIST SEE SHEET 1.
- SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



EROSION CONTROL SECTIONS & DETAILS		
<p>PERMIT DRAWINGS</p> <p>GEORGIA POWER COMPANY</p> <p>PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)</p> <p>EXISTING LANDFILL NO. 4</p> <p>EFFINGHAM, GEORGIA</p>		
<p>GEI Consultants</p> <p>1375 PEACHTREE STREET NE, SUITE A15</p> <p>ATLANTA, GEORGIA 30309</p>		
(404) 592-0050	https://www.geiconsultants.com/	
PROJ. NO.	1702944	DWG. 24
SCALE	NONE	EDIT
DATE	NOVEMBER 2018	SHEET 24 OF 29

PURPOSE
TO MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEMS BY SLOWING STORM WATER RUNOFF AND CAUSING THE DEPOSITION AND/OR FILTRATION OF SEDIMENT AT THE STRUCTURE. THE BARRIERS RETAIN THE SOIL ON THE DISTURBED LAND UNTIL THE ACTIVITIES DISTURBING THE LAND ARE COMPLETED AND VEGETATION IS ESTABLISHED.

PERFORMANCE EVALUATION
FOR A PRODUCT OR PRACTICE TO BE APPROVED AS A SEDIMENT BARRIER, THAT PRODUCT OR PRACTICE MUST HAVE A DOCUMENTED P-FACTOR NO GREATER THAN 0.045 FOR NON-SENSITIVE AREAS OR A P-FACTOR NO GREATER THAN 0.030 FOR SENSITIVE AREAS, AS SPECIFIED BY GSWCC. FOR COMPLETE TEST PROCEDURES AND APPROVED PRODUCTS LIST PLEASE VISIT WWW.GASWCC.GEORGIA.GOV.

DESIGN CRITERIA
SEDIMENT BARRIERS ARE DESIGNED TO RETAIN SEDIMENT TRANSPORTED BY SHEET FLOW FROM DISTURBED AREAS. IT IS IMPORTANT FOR THE DESIGN PROFESSIONAL TO TAKE INTO ACCOUNT THE PROFILE OF THE PRODUCT FOR USE ON THE SITE. ALL SEDIMENT BARRIERS SHALL MEET THE REQUIRED P-FACTOR PERFORMANCE LEVEL. SUPPORTING INFORMATION ON TESTING CAN BE FOUND AT WWW.GASWCC.GEORGIA.GOV, UNDER, DOCUMENTS.

SEDIMENT BARRIERS SHOULD ALSO PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY OVERTOP THE SEDIMENT BARRIER. ENSURE THAT THE MAXIMUM HEIGHT OF THE BARRIER AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FOOT AND THAT THE SUPPORT SPACING DOES NOT EXCEED 4 FEET.

WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SEDIMENT BARRIER (WHERE NO STORM WATER DISPOSAL SYSTEM IS PRESENT), MAXIMUM CONTINUOUS SLOPE LENGTH BEHIND A SEDIMENT BARRIER SHALL NOT EXCEED THOSE SHOWN IN CRITERIA FOR SEDIMENT BARRIER TABLE. FOR LONGER SLOPE LENGTHS, SLOPE INTERRUPTERS MUST BE USED. THE DRAINAGE AREA SHALL NOT EXCEED 1/4 ACRE FOR EVERY 100 FEET OF SEDIMENT BARRIER.

PLACEMENT
WHEN USING A SEDIMENT BARRIER THE DESIGN PROFESSIONAL MUST DETERMINE TYPE NS OR TYPE S. SENSITIVE AREAS CAN BE DEFINED AS ANY AREA THAT NEEDS ADDITIONAL PROTECTION, THESE AREAS INCLUDE BUT ARE NOT LIMITED TO, STATE WATERS, WETLANDS, OR ANY AREA THE DESIGN PROFESSIONAL DESIGNATES AS SENSITIVE.

WHEN USING MULTIPLE TYPES OF SEDIMENT BARRIERS ON A SITE IN A SINGLE RUN THE BARRIERS MUST BE OVERLAPPED 18 INCHES OR AS SPECIFIED BY DESIGN PROFESSIONAL. SEE OVERLAP AT FABRIC ENDS DETAIL.

CONSTRUCTION SPECIFICATIONS

TYPE S SEDIMENT BARRIER
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.

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

FOR INSTALLATION OF THE BARRIERS, SEE DETAILS. 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 REQUIREMENT, SEE POST SIZE TABLE. FASTENERS FOR WOOD POSTS ARE LISTED IN FASTENERS FOR WOOD POSTS TABLE.

TRENCHING METHOD
TRENCHING MACHINES HAVE BEEN USED FOR OVER TWENTY-FIVE YEARS TO DIG A TRENCH FOR BURYING PART OF THE FILTER FABRIC UNDERGROUND. USUALLY THE TRENCH IS ABOUT 2"-6" WIDE WITH A 6" EXCAVATION. POST SETTING AND FABRIC INSTALLATION OFTEN PRECEDE COMPACTION, WHICH MAKE EFFECTIVE COMPACTION MORE DIFFICULT TO ACHIEVE. EPA SUPPORTED AN INDEPENDENT TECHNOLOGY EVALUATION (ASCE 2001), WHICH COMPARED THREE PROGRESSIVELY BETTER VARIATIONS OF THE TRENCHING METHOD WITH STATIC SLICING METHOD. THE STATIC SLICING METHOD PERFORMED BETTER THAN TWO LOWER PERFORMANCE LEVELS OF THE TRENCHING METHOD, AND WAS AS GOOD AS OR BETTER THAN THE TRENCHING METHOD'S HIGHEST PERFORMANCE LEVEL. THE BEST TRENCHING METHOD TYPICALLY REQUIRED NEARLY TRIPLE THE TIME AND EFFORT TO ACHIEVE RESULTS COMPARABLE TO THE STATIC SLICING METHOD.

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.

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 DETERIORATED 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.

FASTENERS FOR WOOD POSTS TABLE				
	GAUGE	CROWN	LEGS	STAPLES/POST
WIRE STAPLES	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.
	GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
NAILS	14 MIN.	1"	3/4"	4 MIN.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CHORDS, AND POCKETS OR ANY OTHER METHOD PROVIDED MINIMUM P-FACTOR, AS REQUIRED BY GSWCC, IS MET.

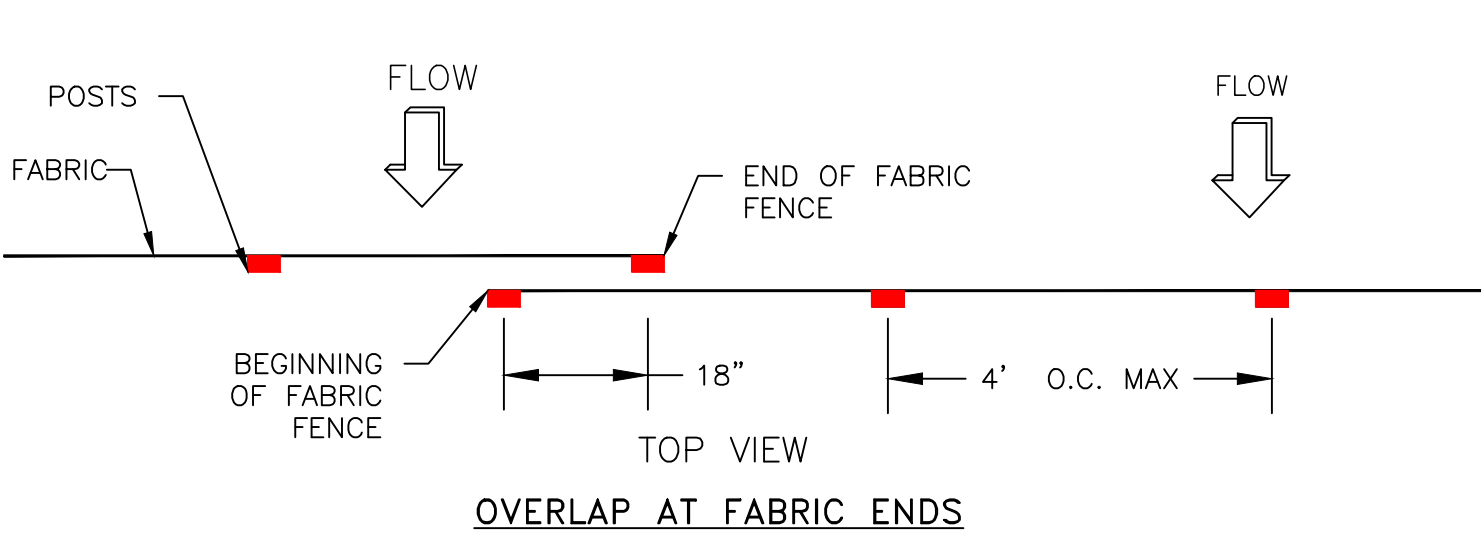
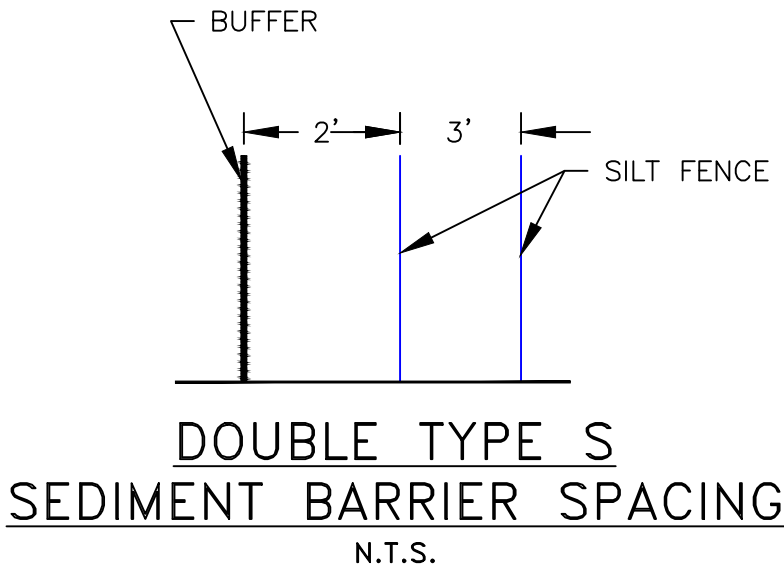
POST SIZE TABLE			
TYPE	MIN. LENGTH	TYPE OF POST	SIZE OF POST
NS	4'	SOFT WOOD OAK STEEL	3" DIA. OR 2X4 1.5" X 1.5" 1.3 LB./FT. MIN.
S	4'	STEEL OAK	1.3 LB./FT. MIN. 2" X 2"

NOTE:
THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS, AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

CRITERIA FOR SEDIMENT BARRIER

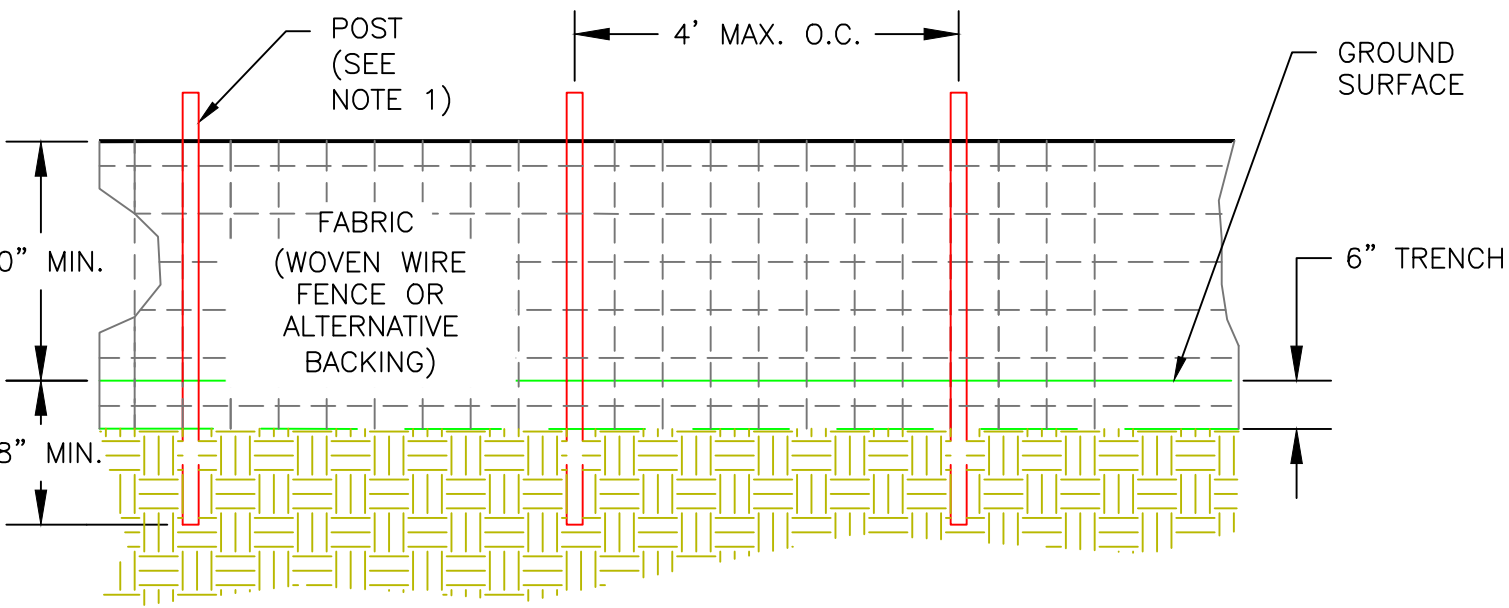
LAND SLOPE PERCENT	MAXIMUM SLOPE LENGTH ABOVE FENCE FEET
<2	100
2 TO 5	75
5 TO 10	50
10 TO 20	25
>20*	15

*IN AREAS WHERE THE SLOPE IS GREATER THAN 20%, A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF SLOPE TO THE BARRIER SHOULD BE PROVIDED.

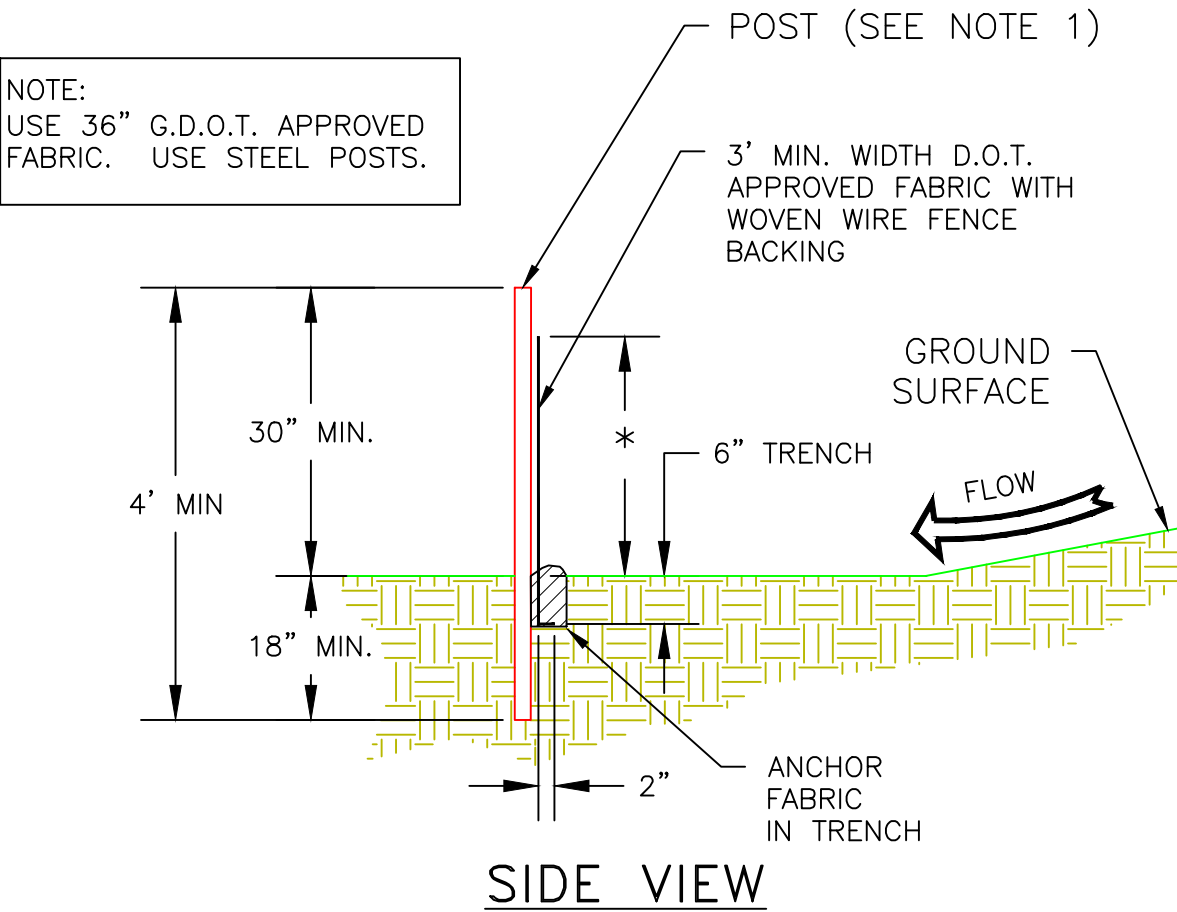
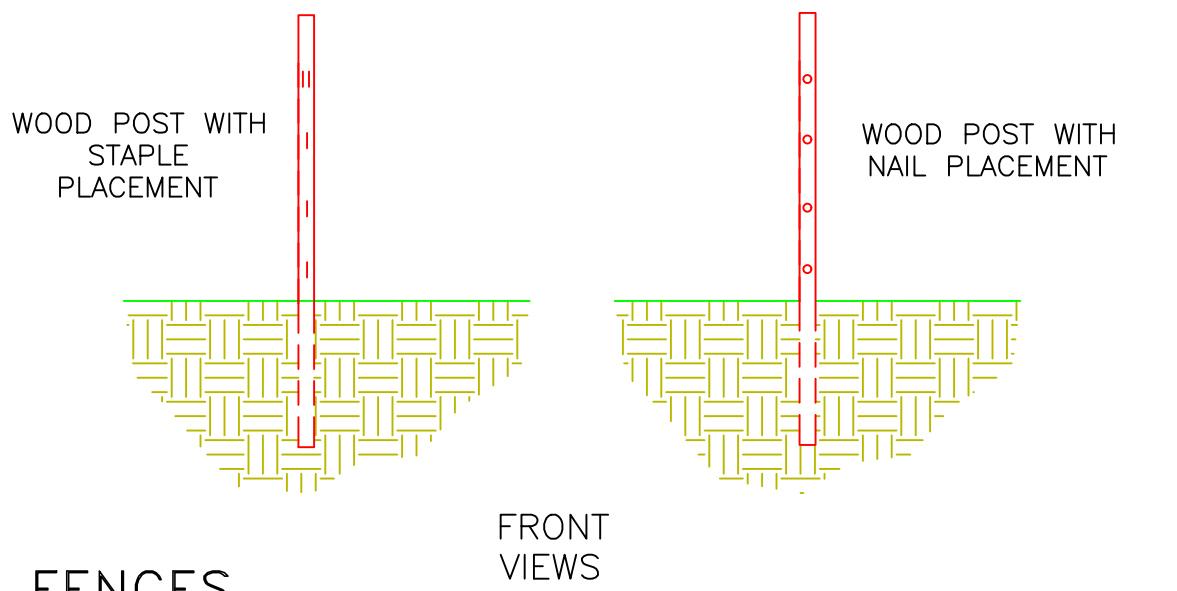


FASTENERS FOR SILT FENCES
N.T.S.

- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.



FRONT VIEW



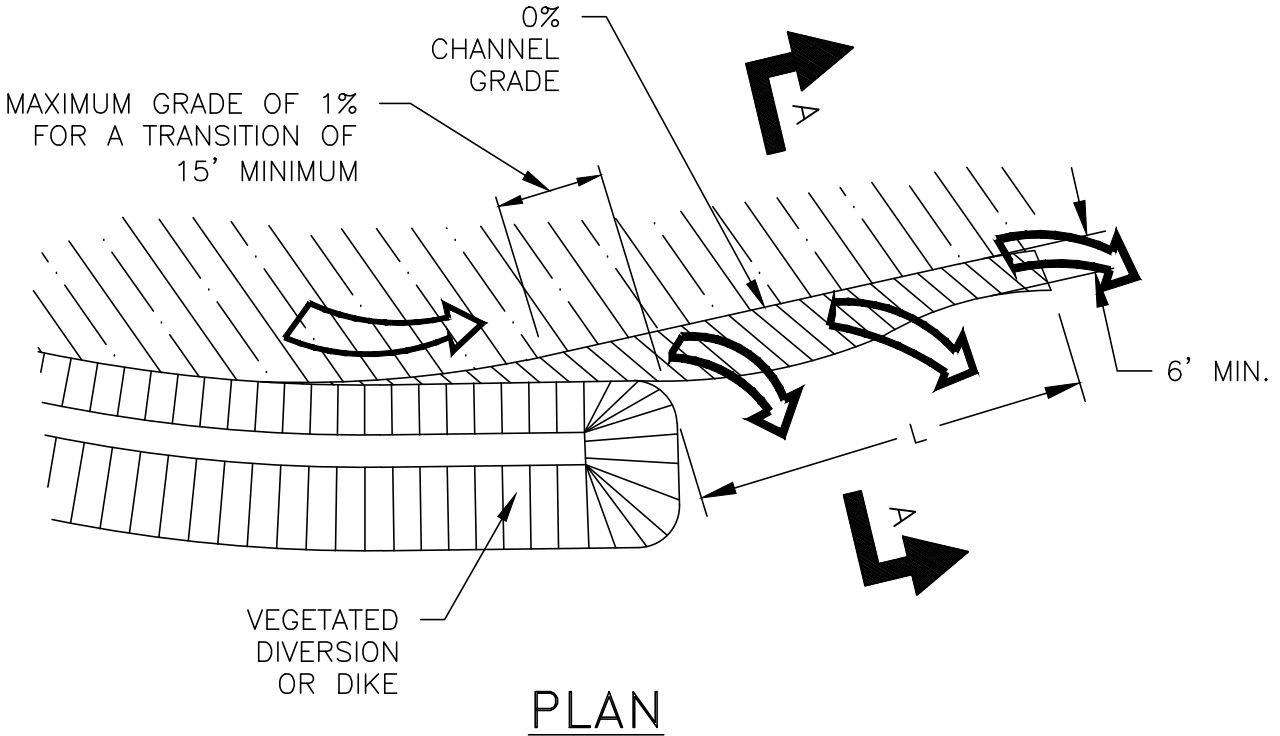
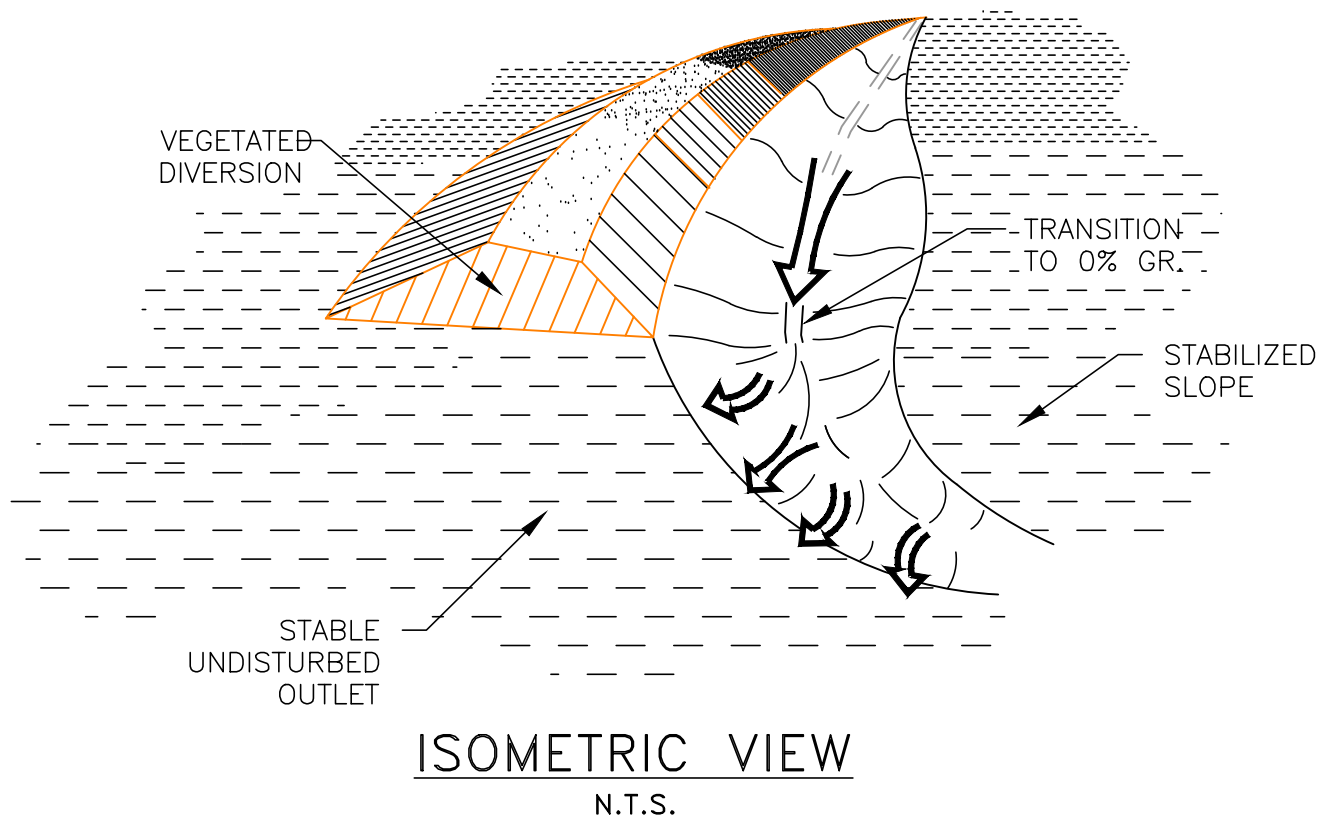
TYPE S SEDIMENT BARRIER
N.T.S.

- NOTES:
1. FINAL DISCHARGE WILL BE OVER THE LEVEL LIP ONTO AN UNDISTURBED, STABILIZED AREA. THE OUTLET SHALL BE GENERALLY SMOOTH TO CREATE UNIFORM SHEET FLOW.
 2. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
 3. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL (NOT ON FILL).
 4. STORM RUNOFF CONVERTED TO SHEET FLOW MUST DISCHARGE ONTO UNDISTURBED STABILIZED AREAS.

DESIGNED Q10/24 (cfs)	MINIMUM LENGTH "L" (feet)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50


REFERENCES:

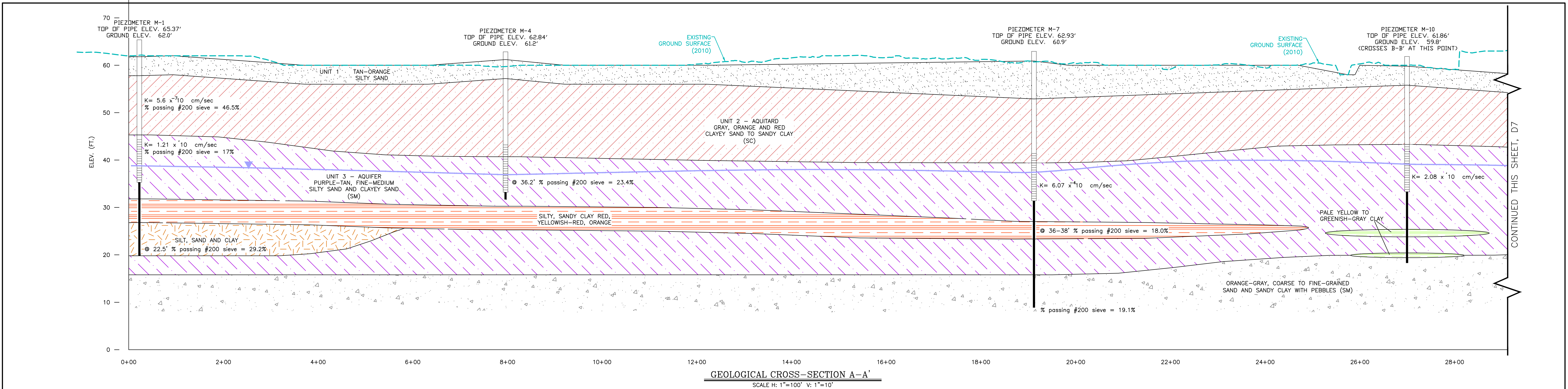
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
3. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



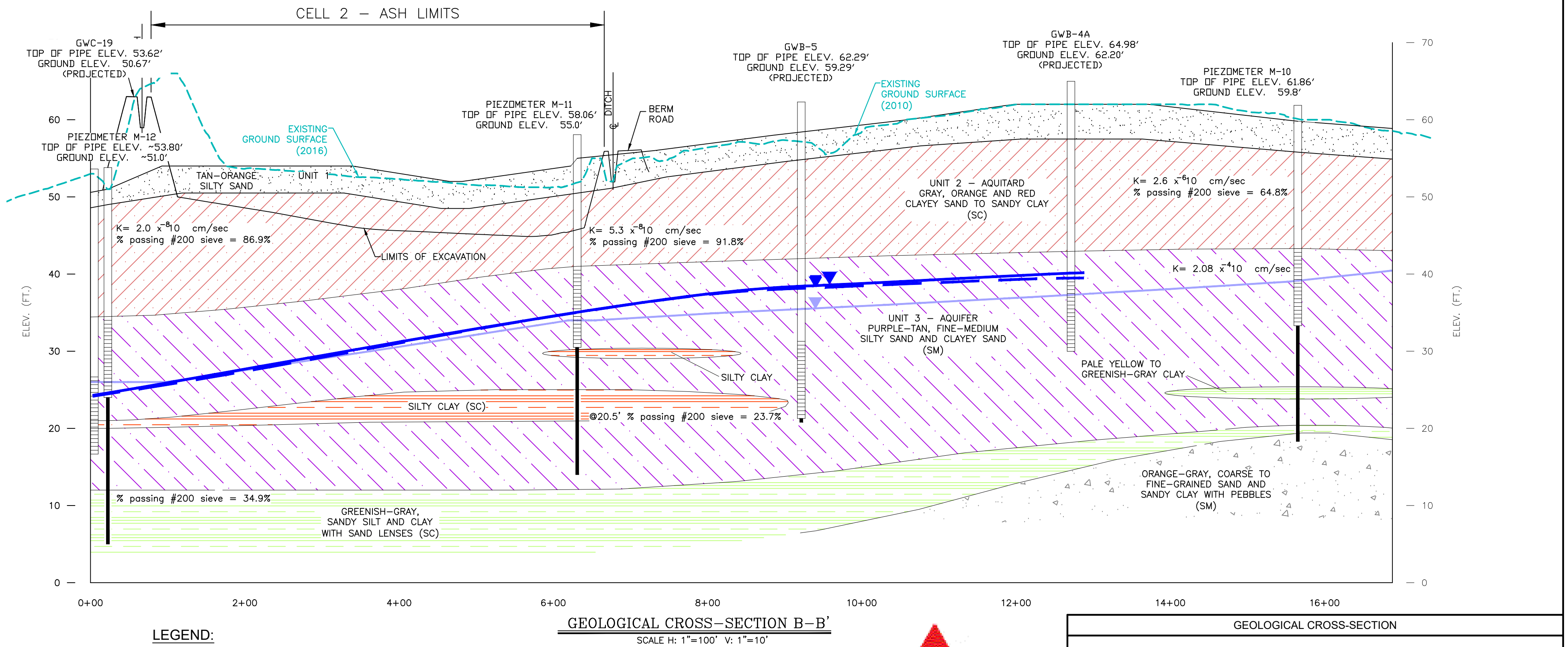
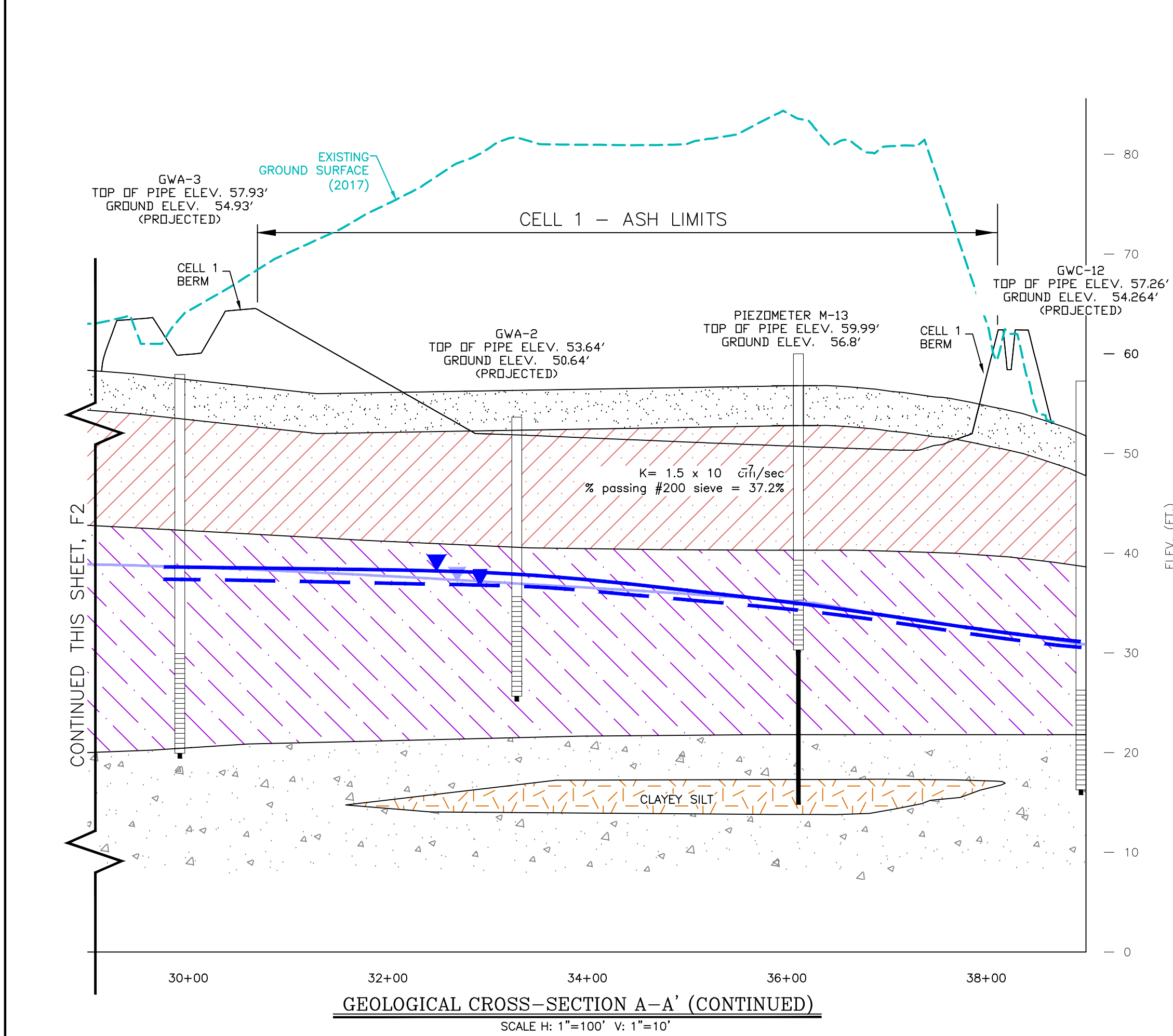
TYPICAL LEVEL SPREADER
N.T.S.



EROSION CONTROL SECTIONS & DETAILS		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO. 1702944	DWG. 25	EDIT
SCALE NONE	SHEET 25 OF 29	
DATE NOVEMBER 2018		



CONTINUED THIS SHEET, D7




LEGEND:

- WATER TABLE (2003)
- LOW WATER TABLE (1/8/2018)
- HIGH WATER TABLE (7/17/2017)

NOTES:

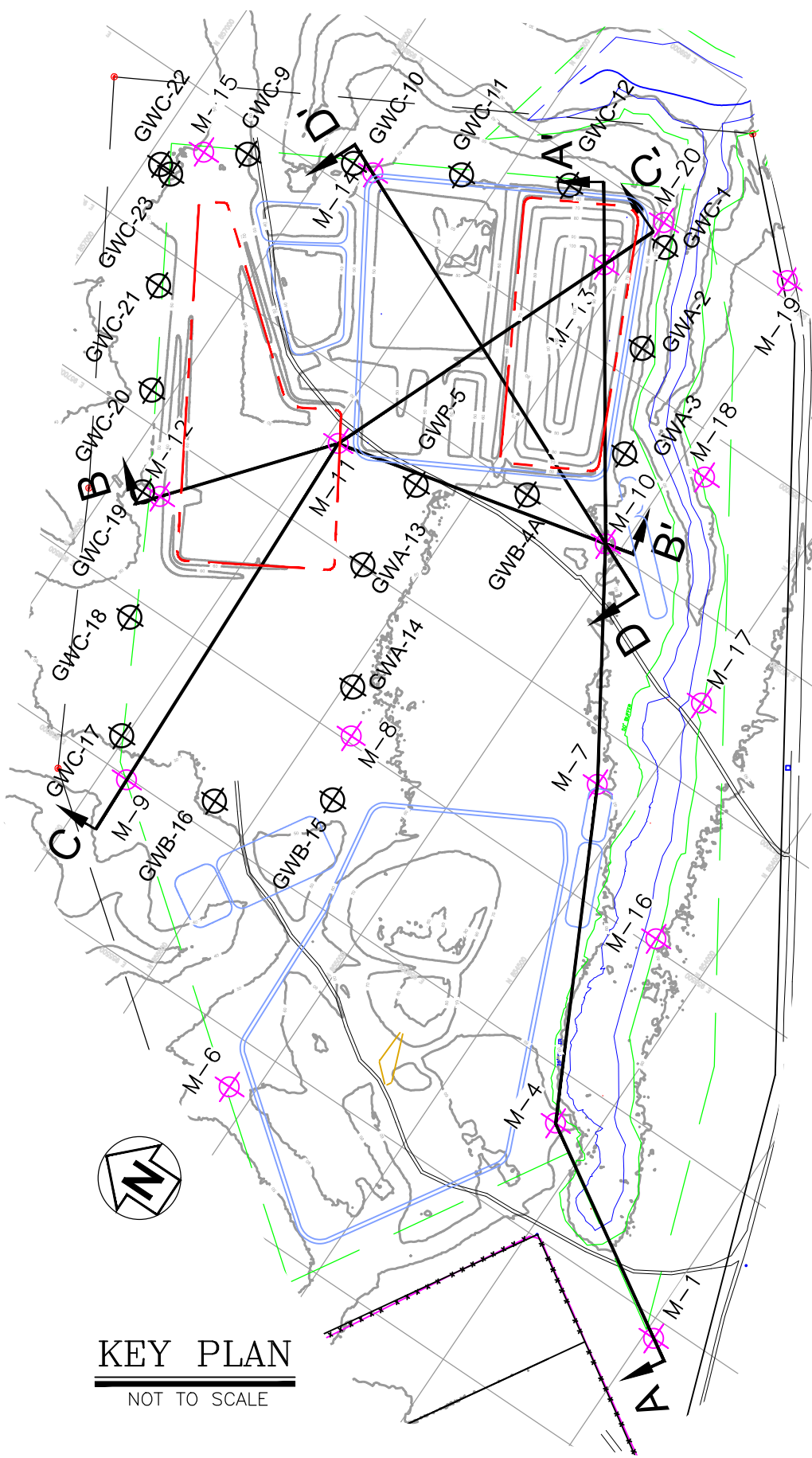
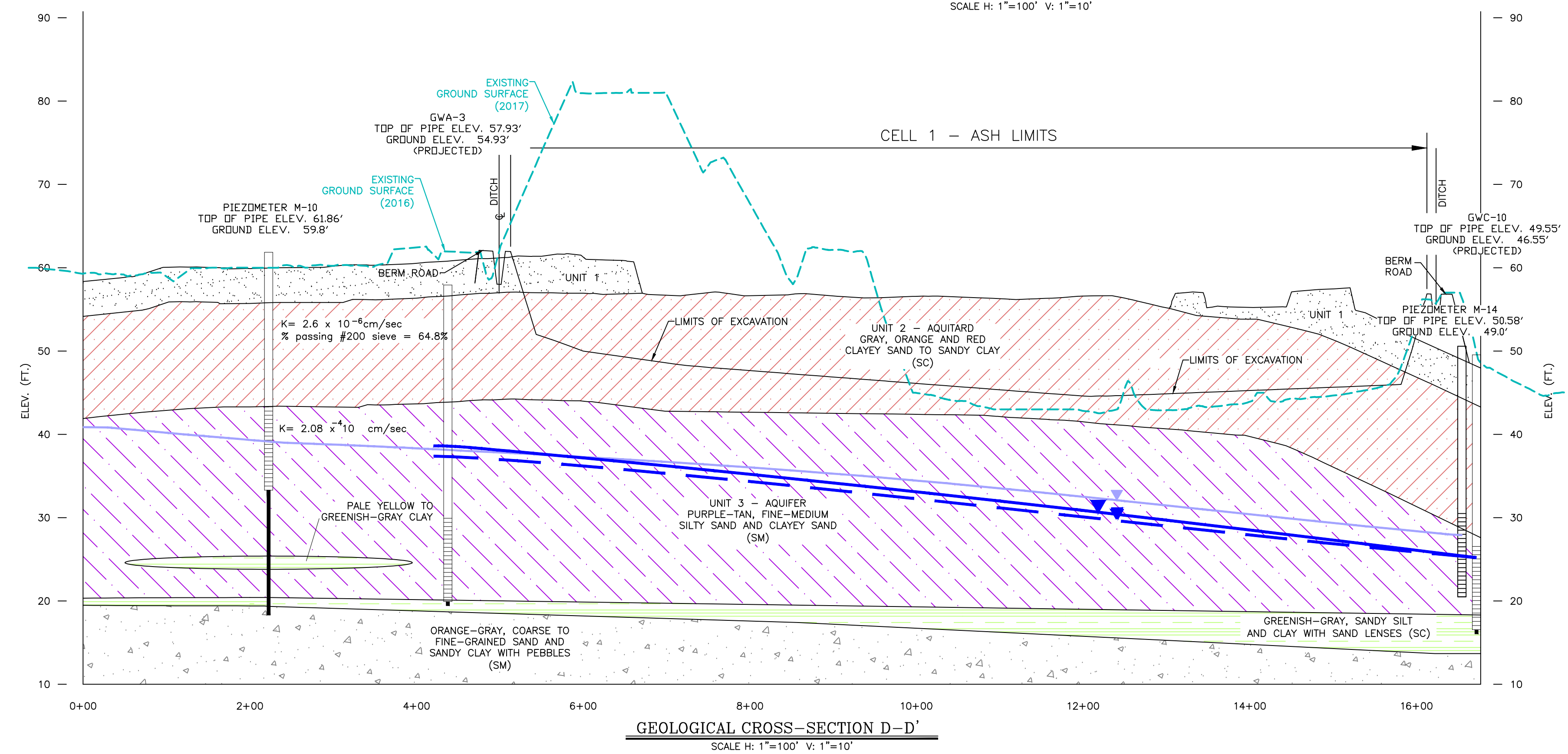
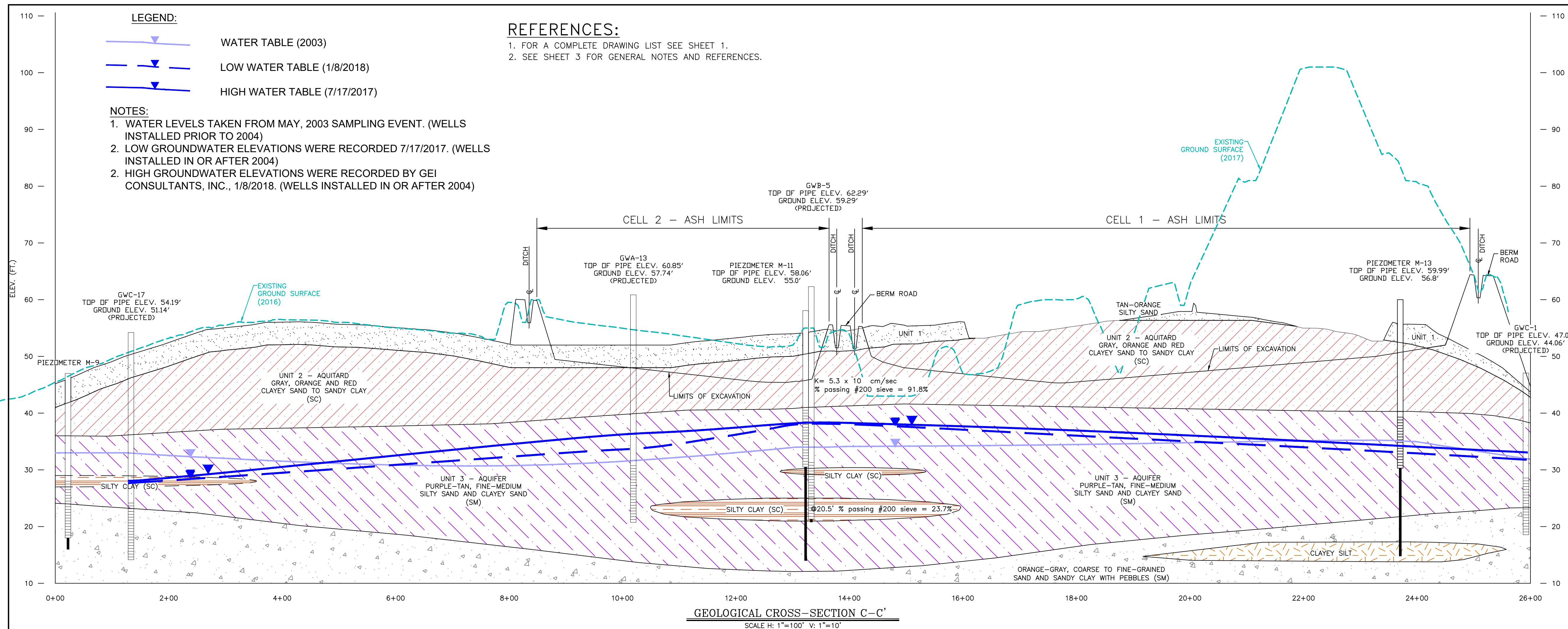
1. WATER LEVELS TAKEN FROM MAY, 2003 SAMPLING EVENT. (WELLS INSTALLED PRIOR TO 2004)
2. LOW GROUNDWATER ELEVATIONS WERE RECORDED 7/17/2017. (WELLS INSTALLED IN OR AFTER 2004)
3. HIGH GROUNDWATER ELEVATIONS WERE RECORDED BY GEI CONSULTANTS, INC., 1/8/2018. (WELLS INSTALLED IN OR AFTER 2004)




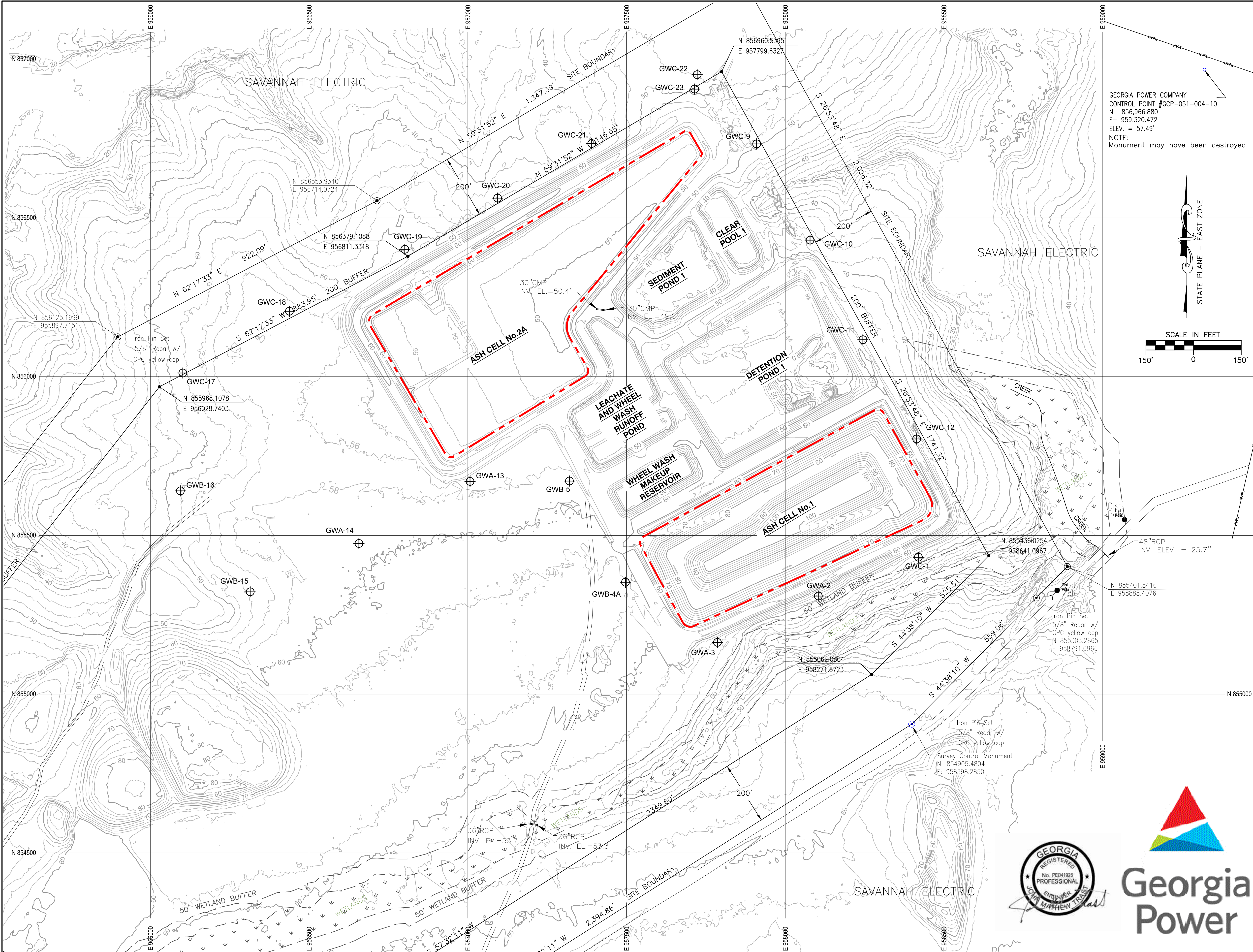
GEOLOGICAL CROSS-SECTION		
PERMIT DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR) EXISTING LANDFILL NO. 4 EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO.	1702944	DWG. 26
SCALE	SEE ABOVE	EDIT
DATE	NOVEMBER 2018	SHEET 26 OF 29

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.



GEOLOGICAL CROSS-SECTION		
PERMIT DRAWINGS		
GEORGIA POWER COMPANY		
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)		
EXISTING LANDFILL NO. 4		
EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
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PROJ. NO.	1702944	DWG. 27
SCALE	SEE ABOVE	EDIT
DATE	NOVEMBER 2018	SHEET 27 OF 29



LEGEND

⊕ GWC-18
MONITORING WELL/
PIEZOMETER LOCATION

NOTE:
BORINGS M16 THROUGH M20 WERE DRILLED MAY 2003 DURING THE PROCESS OF DEVELOPING THE GROUNDWATER MONITORING PLAN FOR THE SITE. TEMPORARY PIEZOMETERS WERE INSTALLED FOR THE PURPOSE OF OBTAINING ADDITIONAL GROUNDWATER LEVEL READINGS.

PROJECT CONTROL
ALL COORDINATES ARE GEORGIA STATE PLANE - EAST ZONE NAD83(94)
ALL ELEVATIONS SHOWN ARE NAVD88
STATE PLANE COORDS. - NAD83(94) - GEORGIA EAST ZONE
GPC-MACK12 N: 855201.8250 E: 961020.2460 ELEV.: 61.572
GPC-MACK15 N: 855830.6352 E: 962265.4434 ELEV.: 59.306

SCALE IN FEET
150' 0 150'

NOTES:

- CELL 1 TOPOGRAPHIC SURVEY COMPLETED MAY 2, 2017. CELL 2A TOPOGRAPHIC SURVEY COMPLETED AUGUST 2016. AREAS BEYOND CELLS 1 AND 2A WERE FROM LIDAR DATA COMPLETED IN 2010.
- HORIZONTAL AND VERTICAL CONTROL PROVIDED BY GREG JOHNSON @ GEORGIA POWER.
- BOUNDARY SURVEY PERFORMED BY BARKER AND ASSOCIATES SURVEYORS, JANUARY 2003

REFERENCES:

- FOR A COMPLETE DRAWING LIST SEE SHEET 1.
- SEE SHEET 3 FOR GENERAL NOTES AND REFERENCES.

LANDFILL NO. 4 COMPLIANCE MONITORING NETWORK

PERMIT DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH COAL COMBUSTION RESIDUALS (CCR)
EXISTING LANDFILL NO. 4
EFFINGHAM, GEORGIA



1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309

(404) 592-0050

<https://www.geiconsultants.com/>

PROJ. NO. 1702944

DWG. 28

EDIT

SCALE 1"=150'

SHEET 28 OF 29

DATE NOVEMBER 2018



