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ASH POND CLOSURE AND SITE RESTORATION DESIGN CRISP COUNTY POWER COMMISSION - PLANT CRISP WARWICK, GEORGIA **APRIL 2020**

LIST OF DRAWINGS										
DRAWING NO.	DESCRIPTION									
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3	EXISTING SITE CONDITIONS									
4	ASH REMOVAL PLAN									
5	POST-ASH REMOVAL SITE RESTORATION									
6	FINAL RESTORATION GRADES									
7	EROSION AND SEDIMENT CONTROL DETAILS I									
8	EROSION AND SEDIMENT CONTROL DETAILS II									
9	EROSION AND SEDIMENT CONTROL DETAILS III									

PROJECT DESCRIPTION:

THE ASH POND AT PLANT CRISP, LOCATED IN WARWICK, GEORGIA, WAS CONSTRUCTED IN THE 1970'S AS A SIDE-HILL IMPOUNDMENT AND OPERATED AS AN UNLINED, WET POND. THE ASH POND RECEIVED ASH SLUICE WATER WITH COAL COMBUSTION RESIDUALS (CCR) FROM THE COAL PLANT OPERATION STORMWATER RUNOFF FROM THE COAL STOCKPILE, AND BLOWDOWN WATER FROM THE PLANT. THE CLOSURE OF THE ASH POND IS ASSOCIATED WITH THE REQUIREMENTS OF UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) 40 CFR 257, TITLED "DISPOSAL OF COAL COMBUSTION RESIDUALS FROM ELECTRIC UTILITIES" (USEPA CCR RULE) AND GEORGIA ENVIRONMENTAL PROTECTION DIVISION, SOLID WASTE MANAGEMENT, CHAPTER 391-3-4-.10 TITLED "COAL COMBUSTION RESIDUALS" (GA EPD CCR RULE). TO CLOSE THE ASH POND AND RESTORE THE SITE, THE PROJECT WILL INCLUDE REMOVAL OF CCR (I.E., ASH) AND A MINIMUM OF 6-INCH THICK LAYER OF NATIVE SOIL UNDERLYING T ASH; (II) TRANSPORTATION AND DISPOSAL OF THE REMOVED MATERIAL TO A PROPERLY LANDFILL; AND (III) SITE RESTORATION, INCLUDING REGRADING TO PROMOTE POSITIVE SELECTIVELY LOWERING, BREACHING, OR REMOVING THE ASH POND CONTAINMENT DIKES; AND SEEDING OF AREA TO ESTABLISH VEGETATION. EROSION AND SEDIMENT CONTROLS WILL BE PUT IN-PLACE AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT TO ENHANCE STORMWATER CONVEYANCE AND TO MINIMIZE EROSION.



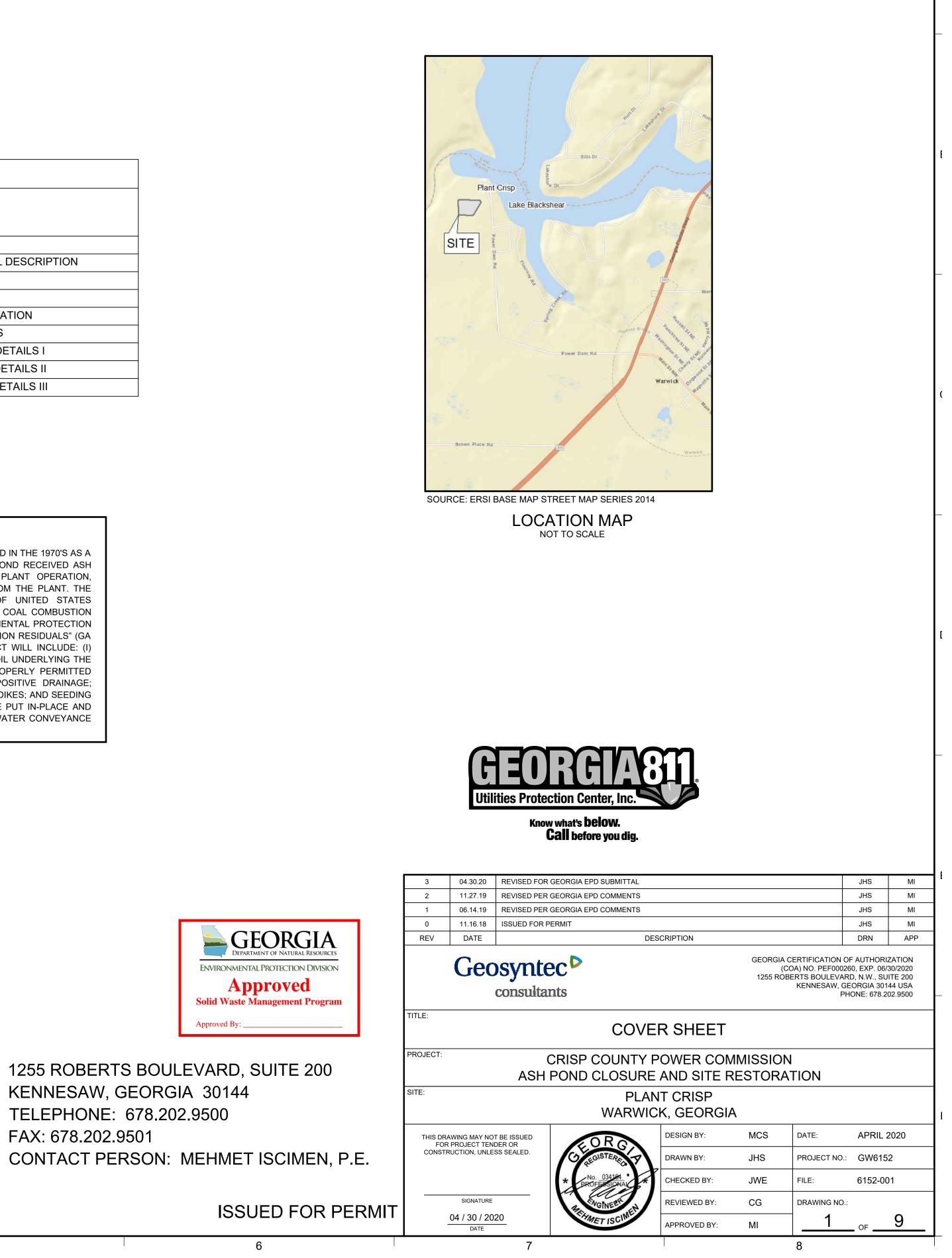
PREPARED BY:

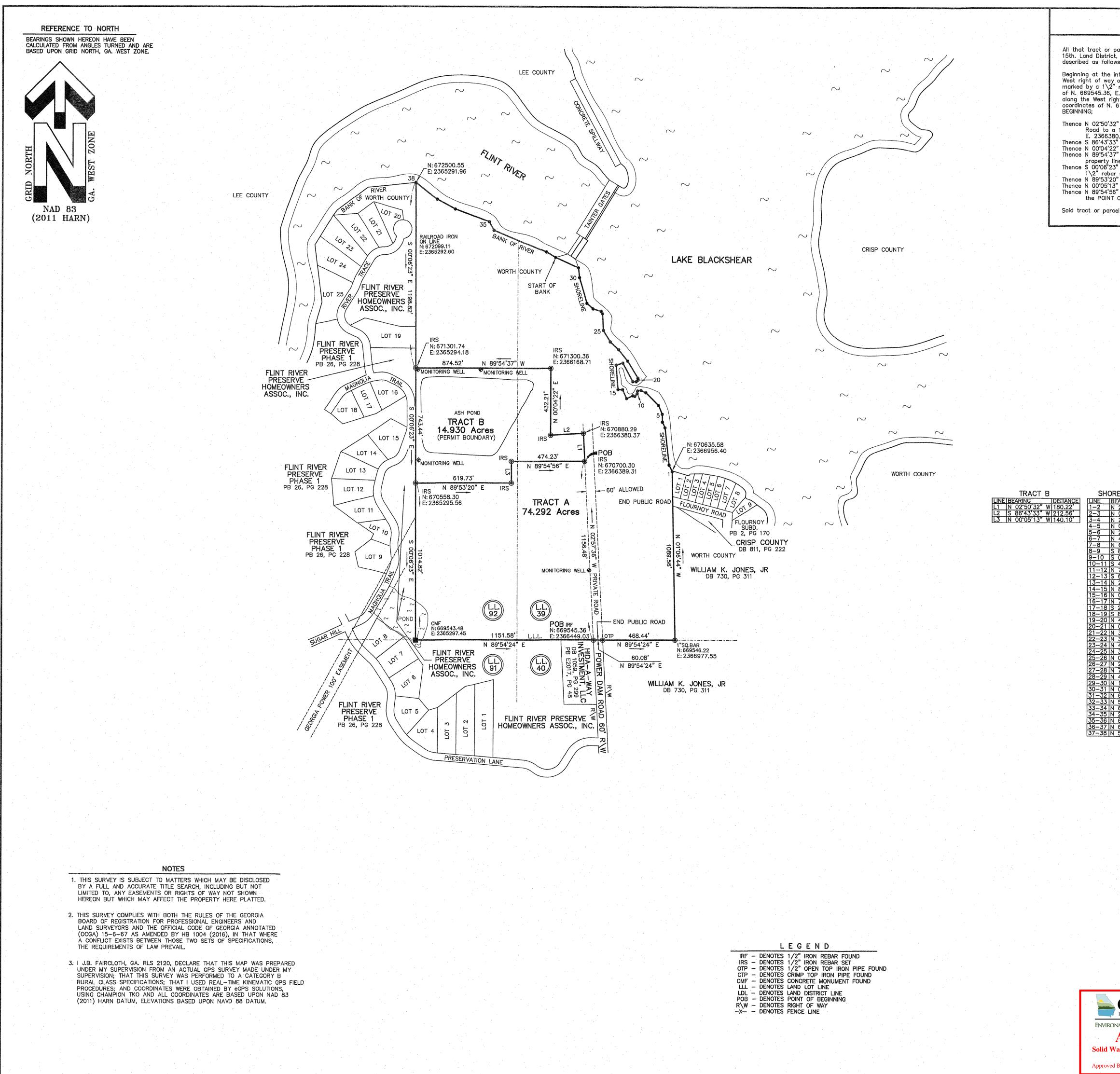


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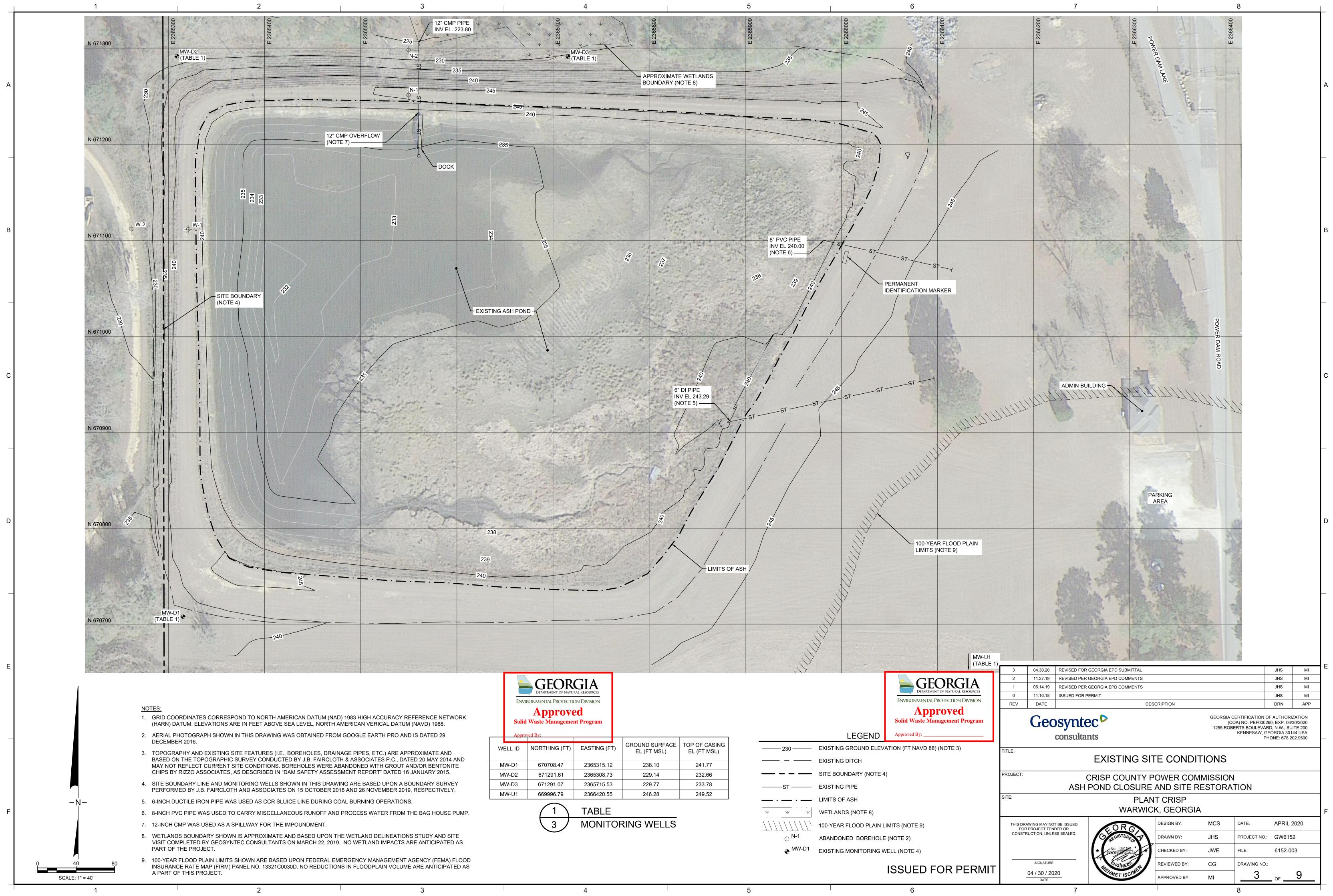
CONTACT PERSON: MEHMET ISCIMEN, P.E.

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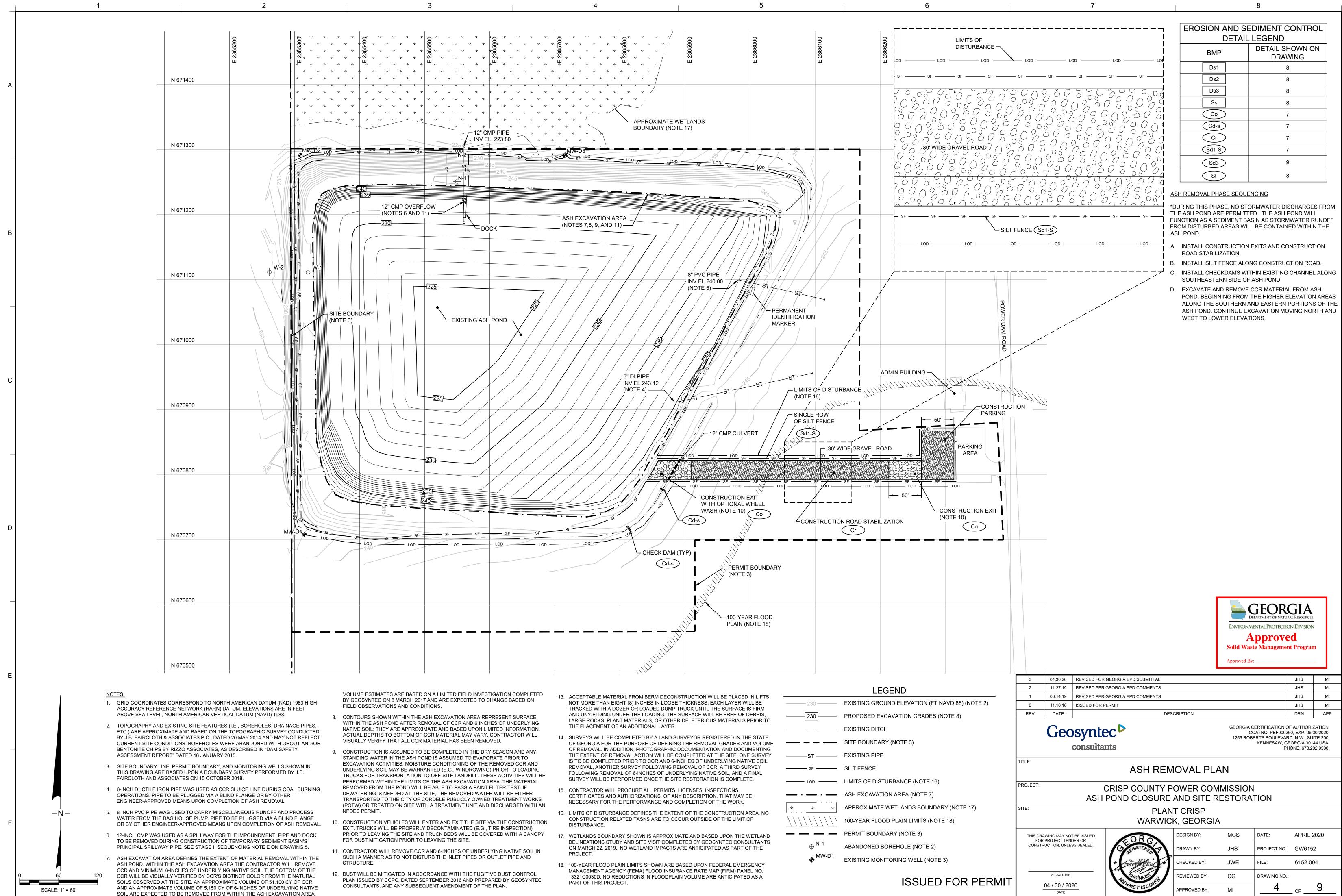




TRACT B (PERMIT BOUNDARY) LEGAL DESCRIPTION	TRACT A LEGAL DESCRIPTION
parcel of land lying in or being in Land Lots 39 and 92 ct, Worth County, Georgia, and being more particularly ows:	All that tract or parcel of land lying in or being in Land Lots 39 and 92, 15th. Land District, Worth County, Georgia, and being more particularly described as follows:
intersection of the South line Land Lot 39 and the y of Power Dam Road (60' R\W), said intersection being "rebar found and having Grid North, Ga. West Zone coordinates E. 2366449.03; Thence N 02°57'36" W s distance of 1156.48' ight of way of a Private Road, to a 1\2" rebar set, having grid 670700.30, E. 2366389.31, said rebar being the POINT OF	Beginning at the intersection of the South line of Land Lot 39 and the West right of way of Power Dam Road (60' R\W), said intersection being marked by a 1\2" rebar found and having Grid North Ga. West Zone coordinates of N. 669545.36, E. 2366449.03, and being the POINT OF BEGINNING; Thence N 89'54'24" E a distance of 60.08' along said Land Lot Line to a
32" W a distance of 180.22' along said right of way of said Private a 1/2" rebar set, having grid coordinates of N. 670880.29, 80.37; 33" W a distance of 212.56' to a 1/2" rebar set; 22" E a distance of 432.21' to a 1/2" rebar set; 37" W a distance of 874.52' to a 1/2" rebar set on the West line, having grid coordinates of N. 671301.74, E. 2365294.18; 23" E a distance of 743.44' along said West property line to a ar set, having grid coordinates of N. 670558.30, E. 2365295.56; 20" E a distance of 619.73' to a 1/2" rebar set; 3" W a distance of 140.10' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 6" E a distance of 474.23' to a 1/2" rebar set; 7" BEGINNING.	1\2" open top pipe, located on the East right of way of Power
	Thence N 89'32'12" W a distance of 29.50' along said shoreline to a point; Thence N 04'35'21' W a distance of 157.21' along said shoreline to a point; Thence S 29'12'28" E a distance of 133.67' along said shoreline to a point; Thence S 88'21'19" E a distance of 17.49' along said shoreline to a point; Thence N 47'59'03" E a distance of 17.49' along said shoreline to a point; Thence N 07'20'18" W a distance of 17.37' along said shoreline to a point; Thence N 31'56'44" W a distance of 72.737' along said shoreline to a point; Thence N 31'56'44" W a distance of 78.408' along said shoreline to a point; Thence N 31'02'19" W a distance of 78.408' along said shoreline to a point; Thence N 31'02'19" W a distance of 18.40' along said shoreline to a point; Thence N 31'02'19" W a distance of 18.40' along said shoreline to a point; Thence N 02'44'37" W a distance of 18.75' along said shoreline to a point; Thence N 13'02'19" W a distance of 54.52' along said shoreline to a point; Thence N 15'0'0' W a distance of 54.52' along said shoreline to a point; Thence N 16'10'06" W a distance of 64.16' along said shoreline to a point; Thence N 16'10'06" W a distance of 64.16' along said shoreline to a point; Thence N 65'35'14" W a distance of 68.60' along said shoreline to a point; Thence N 65'35'14" W a distance of 68.62' along said shoreline to a point; Thence N 65'35'14" W a distance of 68.62' along said bank to a point; Thence N 65'35'14" W a distance of 62.12' along said bank to a point; Thence N 61'36'00" W a distance of 175.39' along said bank to a point; Thence N 61'36'00" W a distance of 175.39' along said bank to a point; Thence N 61'36'00" W a distance of 175.39' along said bank to a point; Thence N 61'36'00" W a distance of 175.39' along said bank to a point; Thence N 61'36'00" W a distance of 175.39' along said bank to a point; Thence N 61'36'20" W a distance of 122' rebar set; Thence S 00'06'23" E a distance of 122' along said bank to a point; Thence S 00'06'23" E a distance of 122.5' to a 1\2"
RELINE TRACT A BEARING DISTANCE N 25'59'39" W47.07' N 06'22'56" W242.07' N 24'50'27" W40.49' N 01'17'53" W50.38' N 23'14'46" W63.15' N 44'55'14" W116.60' N 65'09'16" W34.29' S 81'48'39" W22.85' S 08'07'34" W18.06' S 43'26'21" W22.31' N 76'10'51" W13.14' S 66'01'54" W44.99' N 24'57'12" W29.50' N 04'35'21" W157.21' N 73'18'38" E E44.73' S 88'21'19" E E22.10' N 47'59'03" E 17.49' N 07'20'18" W11.13' N 31'56'44" W127.37' N 31'02'19" W 88.40' N N 02'44'37" W 107.10' N N 28'55'13' W 18.75' N N 74'02'01" W 54.52' N N 49'33'20' W 52.31' N N 65'05'19" W 68.66' N N 65'55'19" W 68.66' N N 65'55'19" W 68.66' N N	West property line; Thence S 00'06'23" E a distance of 1014.82' along said property line to a concrete monument found, located on the South line of Land Lot 92 and having grid coordinates of N. 669543.48, E. 2365297.45; Thence N 89'54'24" E a distance of 1151.58' along said Land Lot Line to the POINT OF BEGINNING. Said tract or parcel of land having an area of 74.292 Acres.
N 69'39'44" W 234.51' N 61'36'00" W 133.07' N 51'44'58" W 175.39'	
	GRAPHIC SCALE 300 0 150 300 600 1200 (IN FEET) 1 inch = 300 ft. ROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION CRISP COUNTY POWER COMMISSION
REFERENCE: DEED BOOK 45, PART OF LAND L SCALE: 1 INCH REPRESENTS	ND CLOSURE AND SITE RESTORATION - DRAWING 2 OF 9 PAGE 152 * SURVEY FOR * CRISP COUNTY POWER COMMISSION OTS 92 & 39, 15th. LAND DISTRICT, WORTH COUNTY, GEORGIA 300 FEET DATE OF SURVEY: OCT. 15, 2018 THIS PLAT HAS BEEN CALCULATED FOR COUNTY OF SURVEY: OCT. 15, 2018
ONE FOOT IN FEET AND WAS ADJUSTED USING T EQUIPMENT USED: SEE NOT PROJECT: C: \CARLSON PORJE DRAWN BY: SMK FILE NO. J.B. LAI	DATE OF PLAT: OCT. 25, 2018 I THIS PLAT IS BASED HAS A CLOSURE PRECISION OF AND AN ANGULAR ERROR OF PER ANGLE POINT, HE SEE NOTE no. 3 E no. 3 CTS\2017\CCPAshPond\CCPD Boundary Plat 2018.DWG

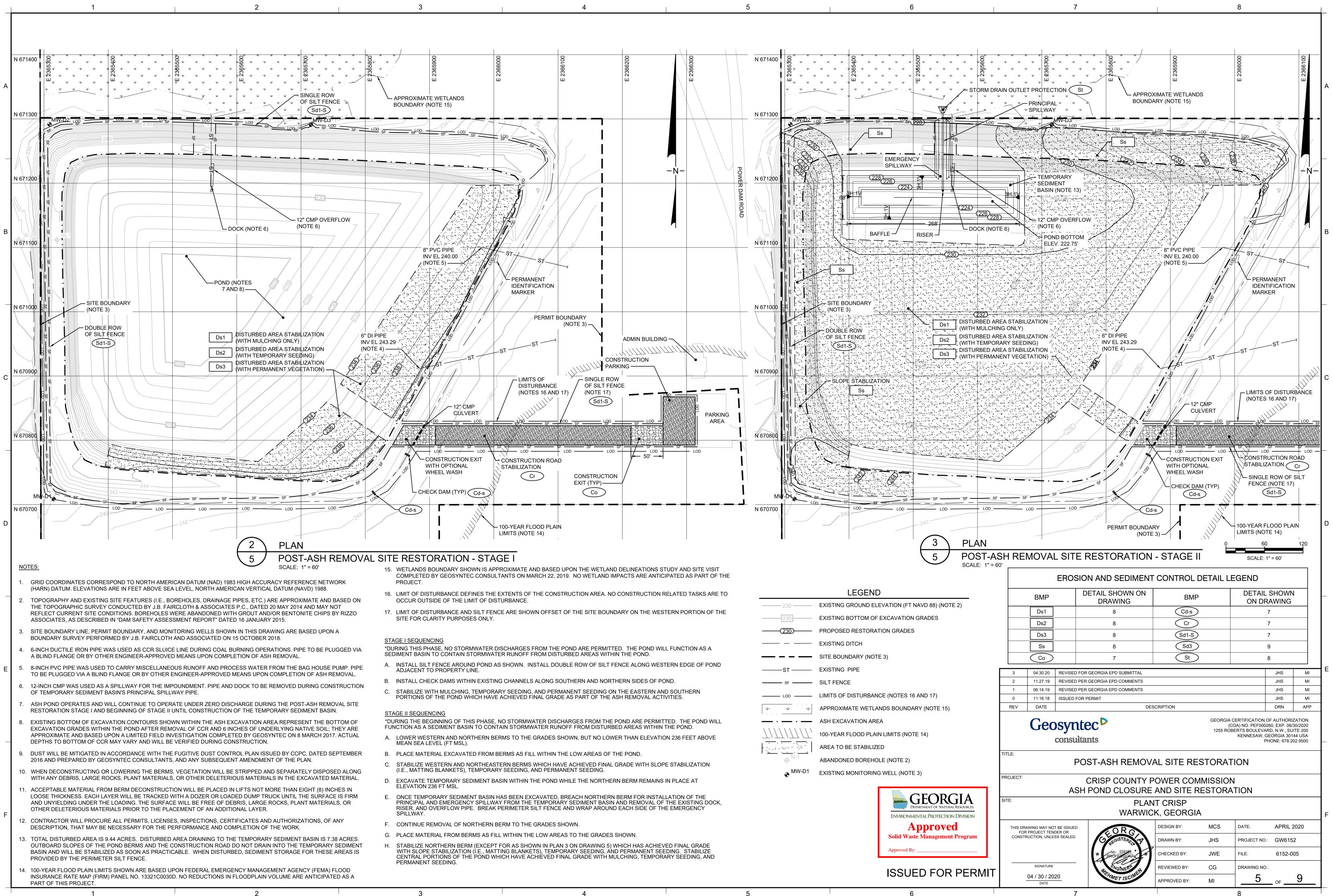


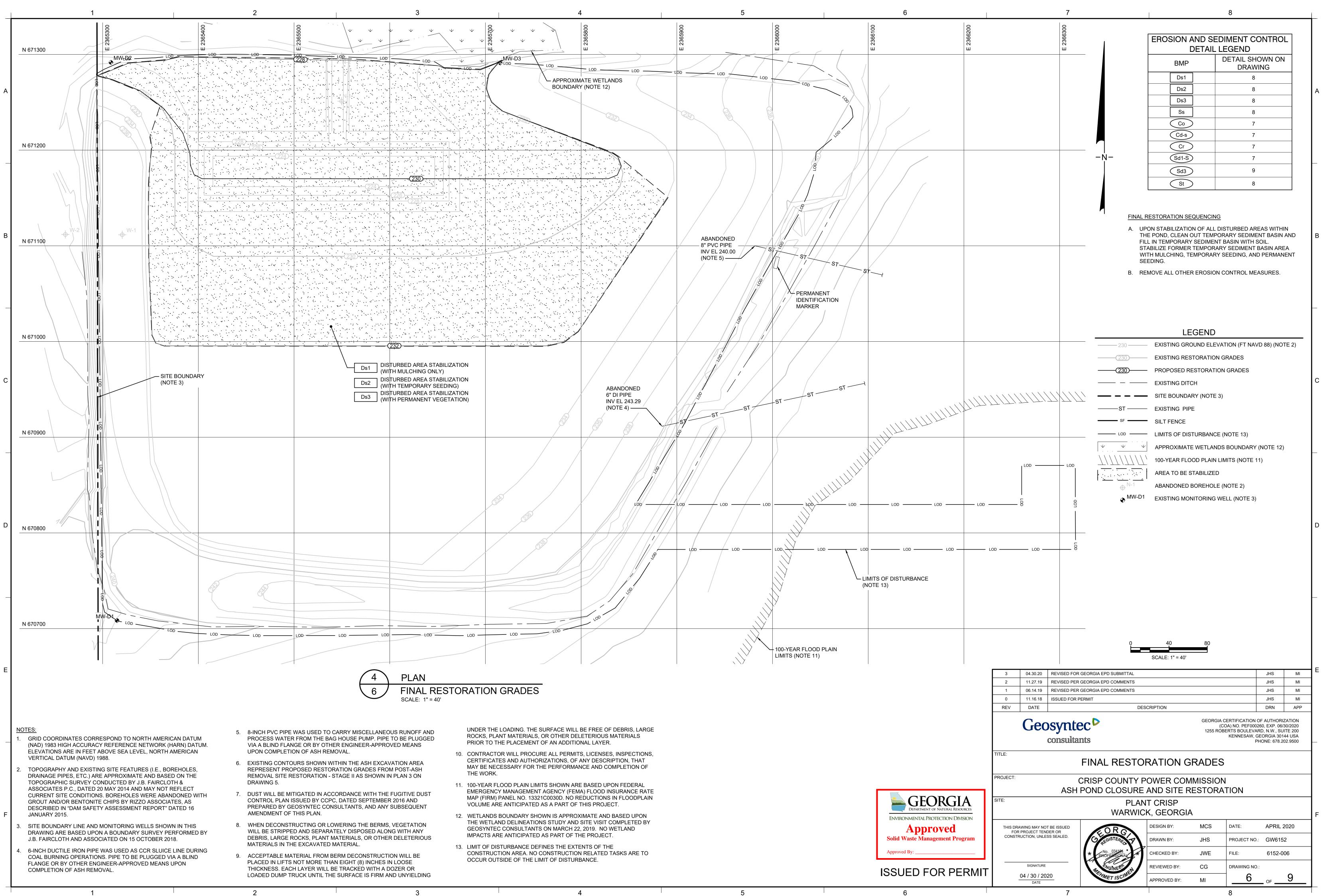
23	the set				LIMITS OF	= ASH			
TWORK		IRONMENTAL PROTECTION Approved Waste Management	ral Resources ON DIVISION						Envir
ND 14 AND WITE 5.	WELL ID MW-D1	NORTHING (FT) 670708.47	EASTING (FT) 2365315.12	GROUND SURFACE EL (FT MSL) 238.10	TOP OF CASING EL (FT MSL) 241.77		230	LEGEND EXISTING GROUND ELEV EXISTING DITCH	
S. RVEY ELY.	MW-D2 MW-D3 MW-U1	671291.61 671291.07 669996.79	2365308.73 2365715.53 2366420.55	229.14 229.77 246.28	232.66 233.78 249.52		ST	SITE BOUNDARY (NOTE 4 EXISTING PIPE LIMITS OF ASH	•)
SITE ED AS		$\begin{pmatrix} 1\\ 3 \end{pmatrix}$	TABLE MONITOI	RING WELLS				WETLANDS (NOTE 8) 100-YEAR FLOOD PLAIN L ABANDONED BOREHOLE EXISTING MONITORING W	E (NOTE 2
A) FLOOD ATED AS			4			5			ISSL

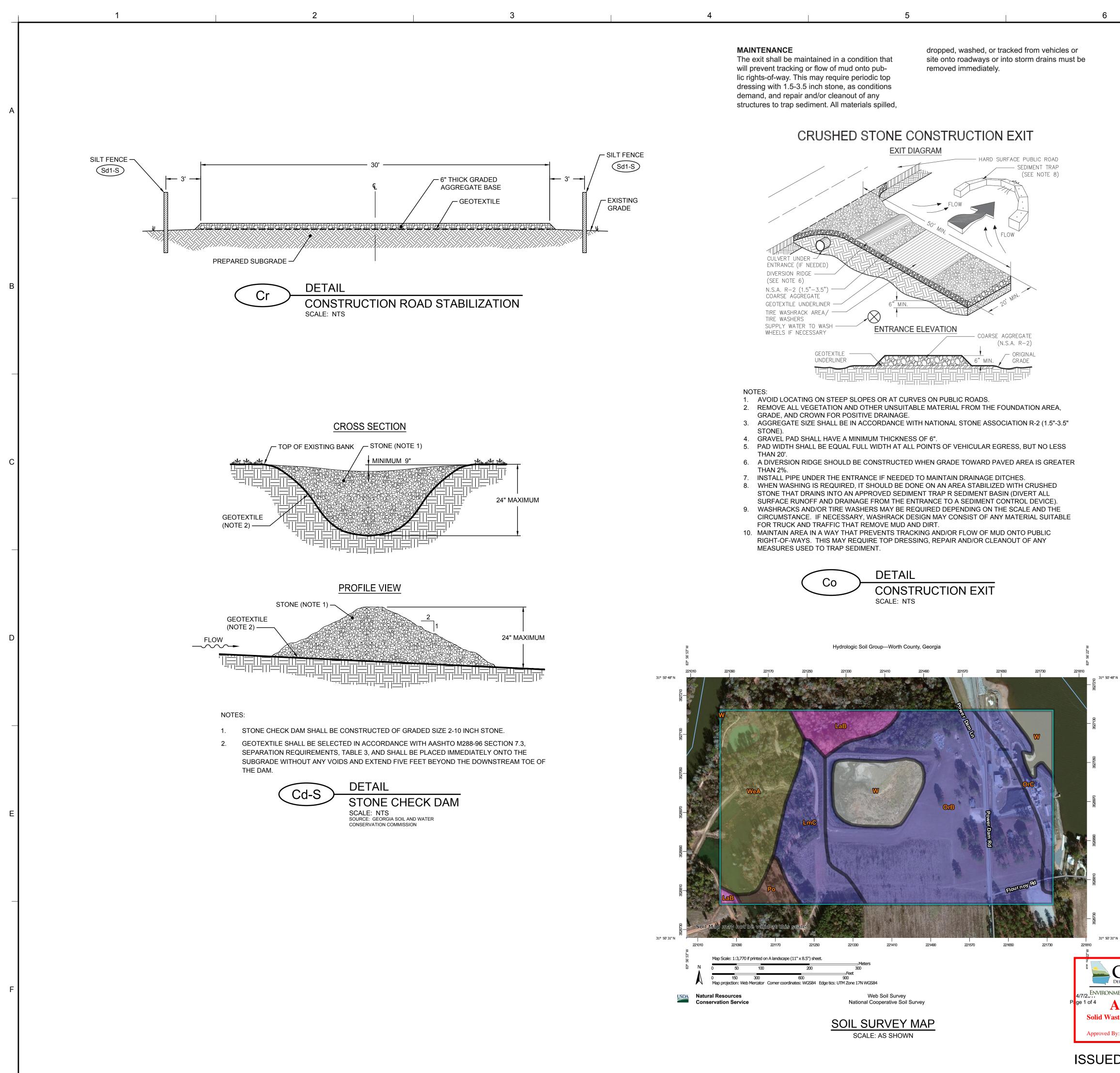




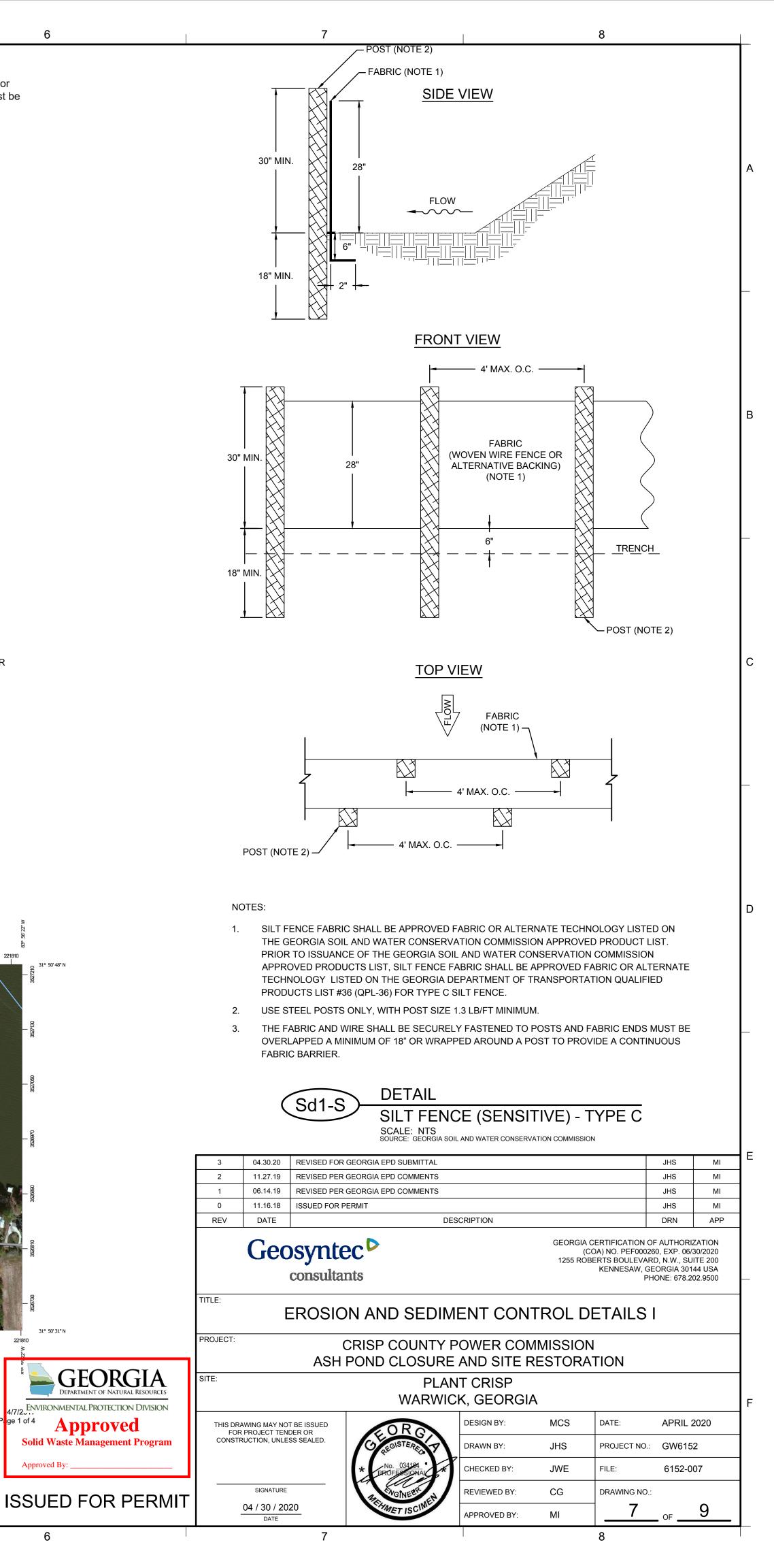












					Species	Broa	adcast Rate
							Pure Li (PLS) I
			WITH A MULCH BLOWER		LESPEDEZA, ANNUAL	Rate Per A	
MULCH BY HAN APPROXIMATE	ND, DIVIDE THE ARE	A TO BE MULCHED IN . AND PLACE 70-90 PC	OUNDS OF STRAW (1 1/2	ТО	Lespedeza striata alone	40 lbs	s 0.1
TO 2 TONS OF	STRAW PER ACRE.		TRIBUTION. THIS WILL B DPERATIONS A GREEN D PLICATION.		in mixture	10 lbs	s 0.1
ANCHORED IM	MEDIATELY AFTER	SPREADING. IT CAN E	Y BY WIND, IT MUST BE BE ANCHORED WITH A M	IULCH	LOVEGRASS, WEEPING Eragrostis curvula alone	3 4 lbs	0.
STRAIGHT AND ENOUGH TO CI) adding weight t Ut the straw. Dis	O THE DISK. THE DIS	FING THE DISK TO RUN IK SHOULD NOT BE SHAF NOT BE USED ON LAND		in mixture	2 lbs	
STEEP SLOPES	Rate Per A	cre	Notes		MILLET, PEARL Pennesetum glaucum	50 11	
Straw with	and (Per 1000 1 ½-2 tons		al ar machina: anghar uhar		alone	50 lbs	s 1.1
Seed Straw Alone	(70 lbs-90 lbs)	subject to blow	nd or machine; anchor wher ving. nd or machine; anchor wher		RYEGRASS, ANNUAL		
(no seed) Wood Chips	(115 lbs-160 lbs 5-6 tons	· •	-		Lolium temulentum alone	40 lbs	s 0.
WOOD FIBER F	REFERS TO SHORT (CELLULOSE FIBERS A	bs. nitrogen/ton. PPLIED AS A SLURRY IN EDER SLURRIES MAY BE				
TO TACK STRA			AREAS, AND WHERE HAP				
Ds1			A STABILIZAT			Ds2	2
		CHING ONLY					
					Species	Broadca	ast Rates
					0,000	Rate Per	Pure Liv
							Pure Liv Seed (PL Per 1000
					BERMUDA, COMMON Cynodon dactylon	Rate Per	Seed (PL
					BERMUDA, COMMON	Rate Per	Seed (PL
					BERMUDA, COMMON <i>Cynodon dactylon</i> Hulled seed alone with other perennials BERMUDA, COMMON	Rate Per Acre	Seed (PL Per 1000
					BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed	Rate Per Acre 10 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb
					BERMUDA, COMMON <i>Cynodon dactylon</i> Hulled seed alone with other perennials BERMUDA, COMMON <i>Cynodon dactylon</i>	Rate Per Acre	Seed (PL Per 1000
					BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover	Rate Per Acre 10 lbs 6 lbs 10 lbs	Seed (PL Per 1000 - 0.2 lb 0.2 lb
	I I	TILIZER REQUIR	[]		BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata	Rate Per Acre 10 lbs 6 lbs 10 lbs	Seed (PL Per 1000 - 0.2 lb 0.2 lb
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	TOP DRESSING RATE	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow	Rate Per Acre 10 lbs 6 lbs 10 lbs	Seed (PL Per 1000 - 0.2 lb 0.2 lb
	I I	ANALYSIS OR EQUIVALENT	[]	TOP DRESSING	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata	Rate Per Acre 10 lbs 6 lbs 10 lbs	Seed (PL Per 1000 - 0.2 lb 0.2 lb
 Cool season grasses Cool season grasses and 	YEAR First Second Maintenance First Second	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don)	Rate Per Acre 10 lbs 6 lbs 10 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb
 Cool season grasses Cool season grasses and legumes 	YEAR First Second Maintenance First Second Maintenance First	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 0-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1300 lbs./ac. 3/	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don)	Rate Per Acre 10 lbs 6 lbs 10 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb
 Cool season grasses Cool season grasses and legumes Ground covers 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 0-10-10 10-10-10 10-10-10 10-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified unscarified	Rate Per Acre 10 lbs 6 lbs 6 lbs 6 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb
 Cool season grasses Cool season grasses and legumes Ground covers 	YEAR First Second Maintenance First Second Maintenance First Second	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 0-10-10 10-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1300 lbs./ac. 3/ 1300 lbs./ac. 3/	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata LespeDEZA Ambro virgata LespeDEZA	Rate Per Acre 10 lbs 6 lbs 6 lbs 6 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb
 Cool season grasses Cool season grasses and 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 0-10-10 10-10-10 10-10-10 10-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 000 lbs./ac. 300 lbs./ac. 000 lbs./ac. 000 lbs./ac. 1000 lbs./ac. 000 lbs./ac. 000 lbs./ac. 100 lbs./ac. 000 lbs./ac. 000 lbs./ac. 000 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don)	Rate Per Acre	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb 1.7 lb
 Cool season grasses Cool season grasses and legumes Ground covers Ground covers Pine seedlings Shrub Lespedeza Temporary cover crops 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance First	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 0-10-10 10-10-10 10-10-10 10-10-10 10-10-10 20-10-5 0-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1300 lbs./ac. 1300 lbs./ac. 0ne 21-gram pellet per seedling placed in the closing hole 700 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30 0-50 lbs./ac. 1/ 	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow	Rate Per Acre 10 lbs 6 lbs 6 lbs 6 lbs 6 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb
 Cool season grasses Cool season grasses and legumes Ground covers Ground covers Pine seedlings Shrub Lespedeza Temporary cover crops seeded alone Warm season 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance First First Maintenance First	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 10-10-10 10-10-10 10-10-10 20-10-5 0-10-10 0-10-10 10-10-10 10-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 1300 lbs./ac. 1300 lbs./ac. 0ne 21-gram pellet per seedling placed in the closing hole 700 lbs./ac. 700 lbs./ac. 500 lbs./ac. 1500 lbs./ac. 1500 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30 0-50 lbs./ac. 1/ 30 lbs./ac. 5/ 50-100 lbs./ac. 2/6/	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don)	Rate Per Acre	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb 1.7 lb
 Cool season grasses Cool season grasses and legumes Ground covers Ground covers Pine seedlings Shrub Lespedeza Temporary cover crops seeded alone Warm season grasses 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance First First Maintenance First First Second Maintenance	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 10-10-10 10-10-10 10-10-10 20-10-5 0-10-10 0-10-10 10-10-10 10-10-10 6-12-12 6-12-12 6-12-12 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 1300 lbs./ac. 0ne 21-gram pellet per seedling placed in the closing hole 700 lbs./ac. 700 lbs./ac. 500 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 400 lbs./ac. 400 lbs./ac. 400 lbs./ac.	TOP DRESSING 50-100 lbs./ac. 1/2/ 30 0-50 lbs./ac. 1/	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified Lespedeza cuneata (Dumont) G. Don) scarified LovegRASS, WEEPING Eragrostis curvula	Rate Per Acre 10 lbs 6 lbs 6 lbs 6 lbs 6 lbs 6 lbs 60 lbs 75 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb 1.7 lb 1.7 lb
 Cool season grasses Cool season grasses and legumes Ground covers Ground covers Pine seedlings Shrub Lespedeza Temporary cover crops seeded alone Warm season 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance First First Maintenance First First Maintenance	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 10-10-10 10-10-10 10-10-10 20-10-5 0-10-10 0-10-10 10-10-10 10-10-10 10-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1300 lbs./ac. 1300 lbs./ac. 1300 lbs./ac. 0ne 21-gram pellet per seedling placed in the closing hole 700 lbs./ac. 700 lbs./ac. 500 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 800 lbs./ac.	TOP DRESSING RATE 50-100 lbs./ac. 1/2/ 30 0-50 lbs./ac. 1/ 30 lbs./ac. 5/ 50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified Lespedeza cuneata (Dumont) G. Don) scarified LovegRASS, WEEPING Eragrostis curvula alone	Rate Per Acre 10 lbs 6 lbs 6 lbs 60 lbs 75 lbs 60 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb 1.7 lb
 Cool season grasses Cool season grasses and legumes Ground covers Ground covers Pine seedlings Shrub Lespedeza Temporary cover crops seeded alone Warm season grasses Warm season grasses and 	YEAR First Second Maintenance First Second Maintenance First Second Maintenance First First Maintenance First Second First	ANALYSIS OR EQUIVALENT N-P-K 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10 10-10-10 10-10-10 10-10-10 20-10-5 0-10-10 0-10-10 10-10-10 10-10-10 6-12-12 6-12-12 10-10-10 6-12-12 0-10-10	RATE 1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1000 lbs./ac. 1300 lbs./ac. 1300 lbs./ac. 0ne 21-gram pellet per seedling placed in the closing hole 700 lbs./ac. 700 lbs./ac. 700 lbs./ac. 1500 lbs./ac. 1500 lbs./ac. 400 lbs./ac. 1500 lbs./ac.	TOP DRESSING 50-100 lbs./ac. 1/2/ 30 0-50 lbs./ac. 1/	BERMUDA, COMMON Cynodon dactylon Hulled seed alone with other perennials BERMUDA, COMMON Cynodon dactylon Unhulled seed with temporary cover with other perennials LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don) scarified Lespedeza cuneata (Dumont) G. Don) scarified LovegRASS, WEEPING Eragrostis curvula	Rate Per Acre 10 lbs 6 lbs 6 lbs 6 lbs 6 lbs 60 lbs 75 lbs 60 lbs	Seed (PL Per 1000 - 0.2 lb 0.7 lb 0.2 lb 0.1 lb 1.4 lb 1.7 lb 1.7 lb 0.1 lb

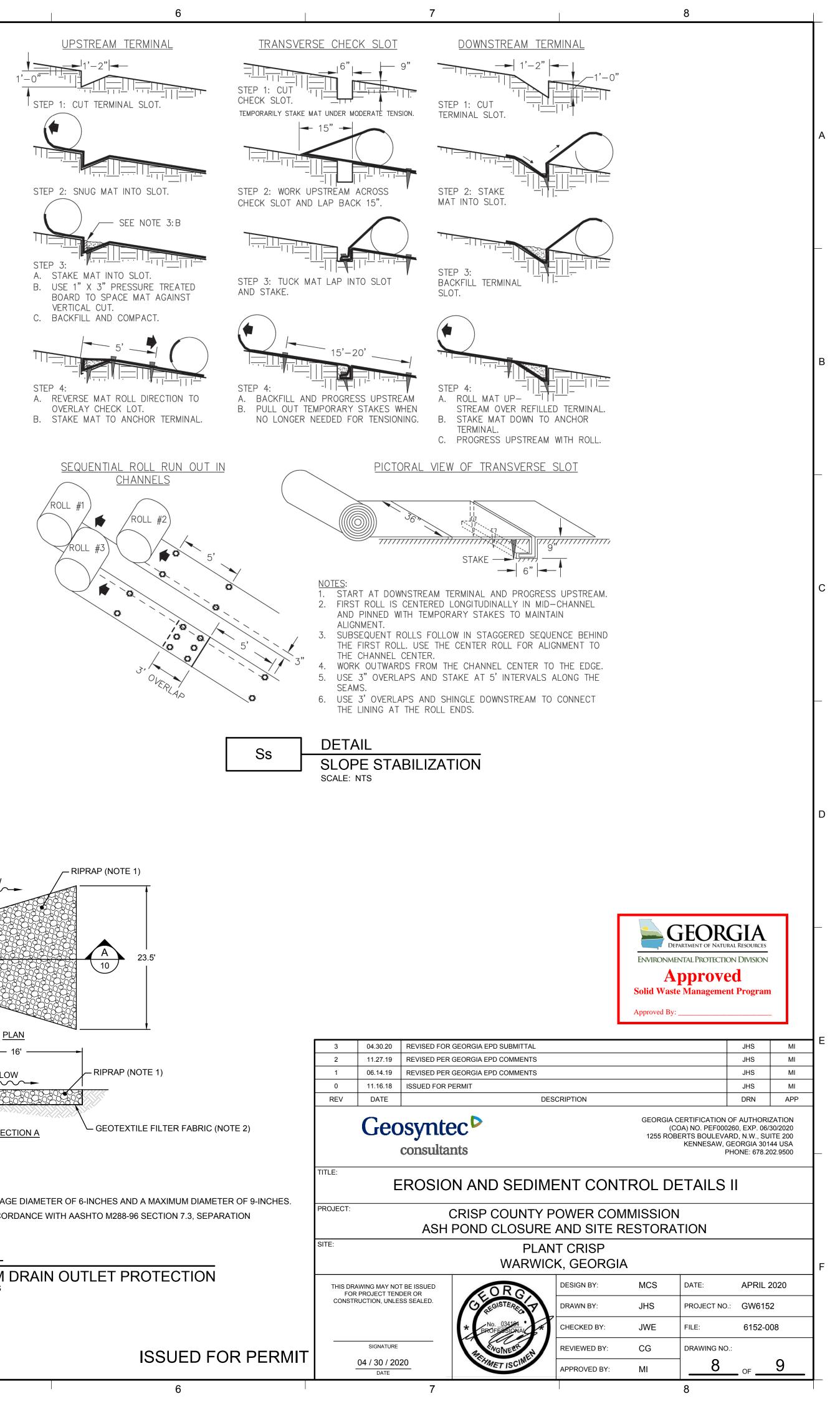
Rates	Resource Area	Sol	Planting Dates by Resource Area Solid lines indicate optimum dates, dotted lines indicate									Remarks		
Pure Live Seed (PLS) Per 1000 sqft		J	F	р М		ssible M		marg J		dates S		N	D	
0.0.1														
0.9 lb 0.2 lb	M-L P C													200,000 seed per pound. May volunteer for sev- eral years. Use inoculant EL.
0.1 lb 0.05 lb	M-L P C													1,500,000 seed per pound. May last for several years. Mix with <i>Sericea lespedeza.</i>
1.1 lbs	M-L P C													88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
0.9 lb	M-L P C													227,000 seed per pound. Dense cover. Very com- petitive and is <u>not</u> to be used in mixtures.

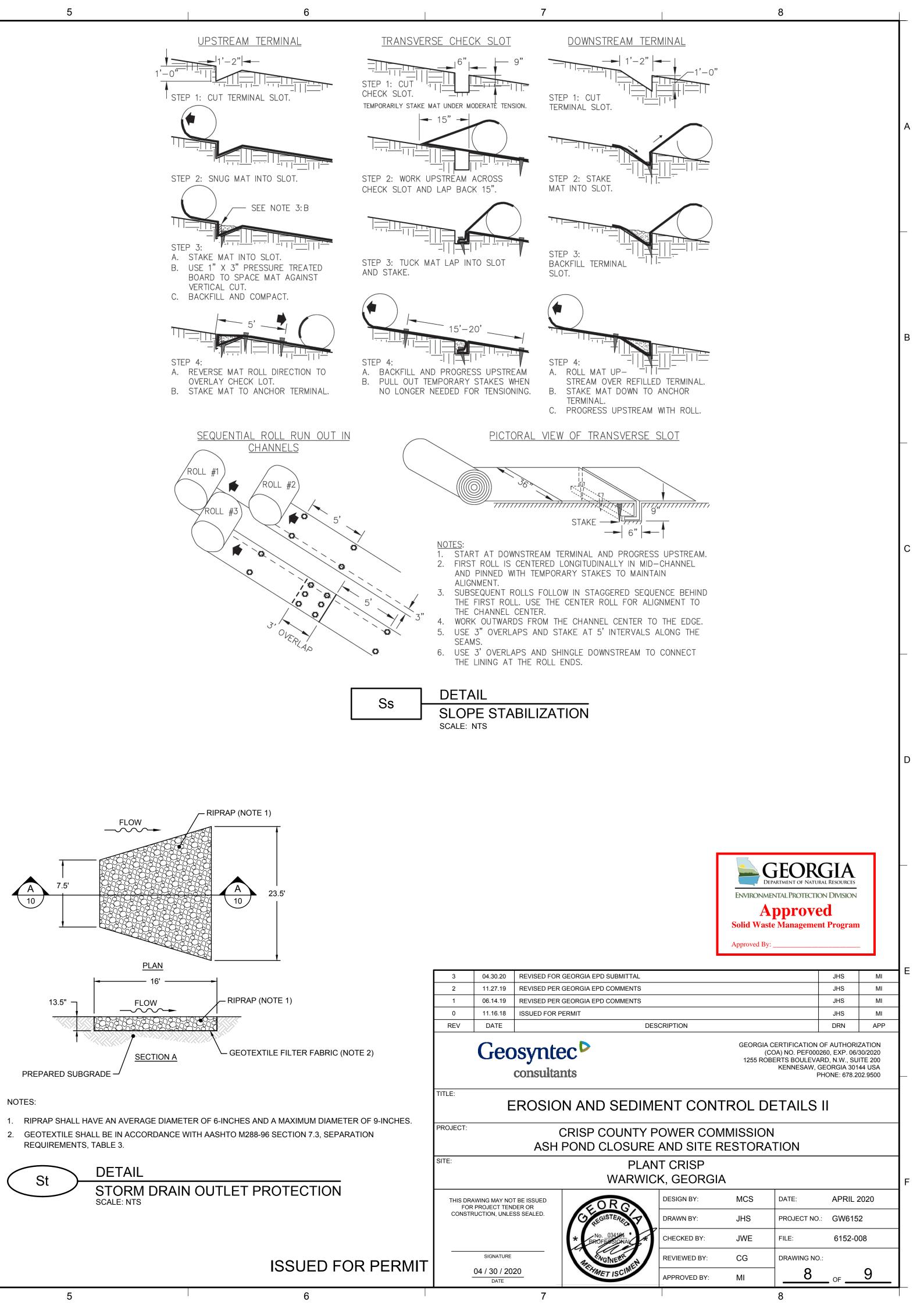
DETAIL

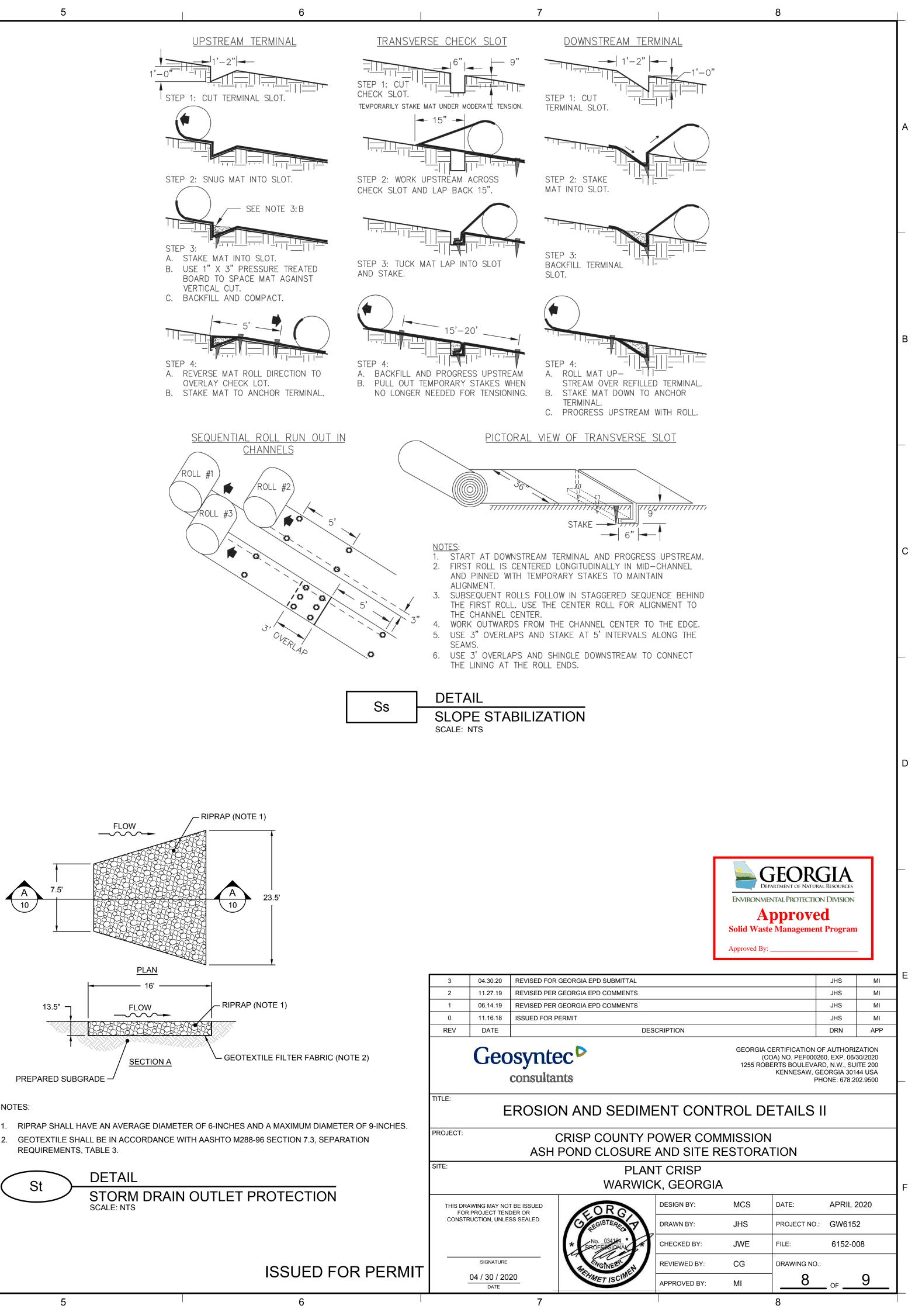
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)

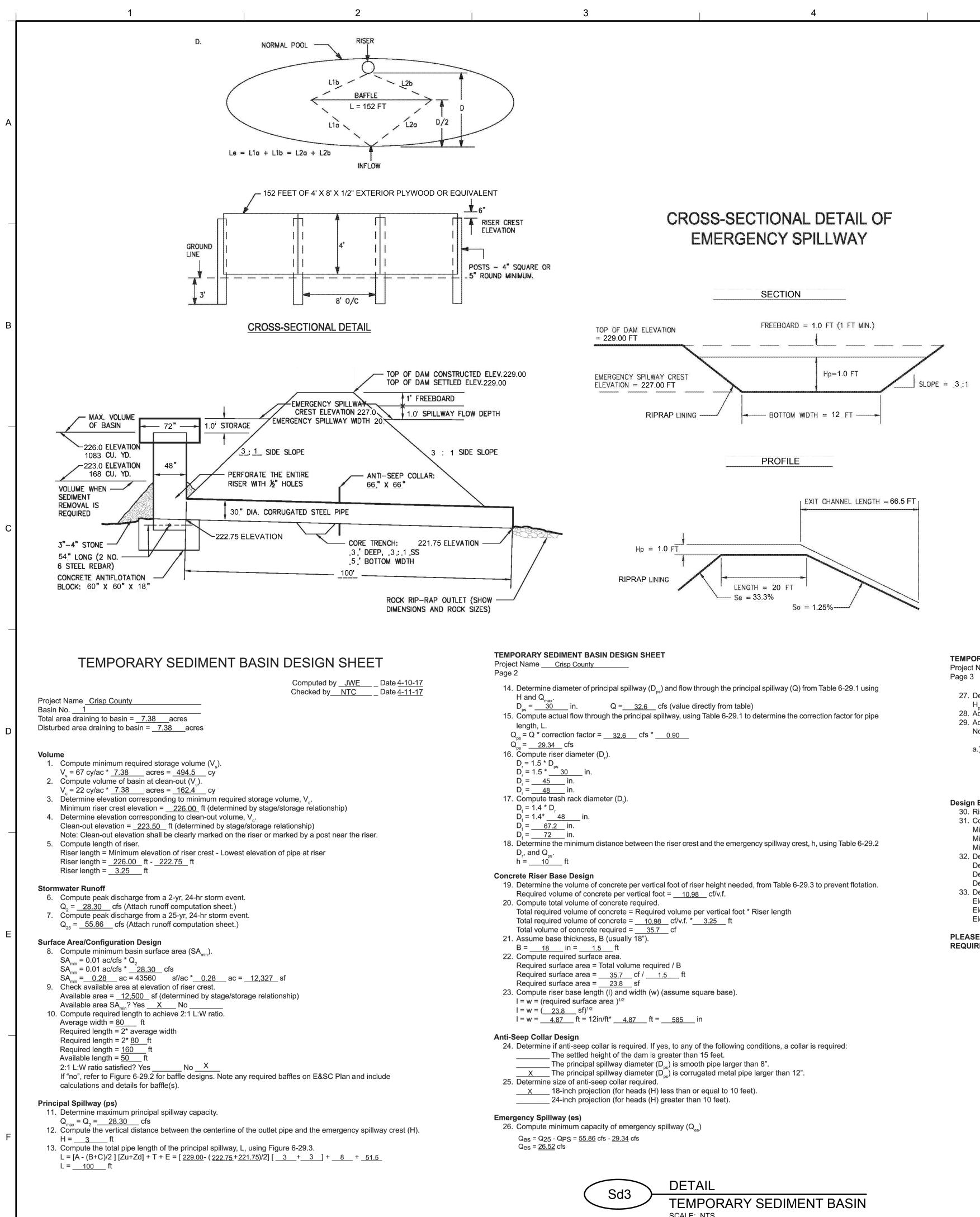
Resource Area													
	Planting Dates by Resource Area												Remarks
	Sol	Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.											
		F	M	Δ	м	1	1	Δ	v	0	N	D	
			141		141	0	•		0			0	
P C													1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fileds.
P C									0				Plant with winter annuals. Plant with Tall Fescue
M-L P C						_27						e	300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban ar- eas. Spreading-type growth. New growth has pronze coloration. Mix with weeping loveg-
M-L P C				••••						-			ass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea espedeza. Slow to develop solid stands. noculate seed with EL inoculant.
M-L P C		-				-						e	300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban ar- eas. Spreading-type growth. New growth has pronze coloration. Mix with weeping loveg-
M-L P C													rass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea espedeza. Slow to develop solid stands. noculate seed with EL inoculant.
M-L P		-				-							1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea
	C P C M-L P C M-L P C M-L P C M-L P C	P C P C P C M-L P C M-L P C M-L P C M-L P C M-L P C	J F P I I P I I P I I P I I P I I P I I P I I P I I P I I P I I P I I M-L I I	J F M P J F M P J F M P J F M P J F M P J F M P J F M P J F M P J F M P J F M P J F M M-L J F M P J F M M-L J F F M-L H F F M-L H F F M-L H F F M-L H F F M-L	M-L P C I I I I I I I I I I I I I I I I I I	J F M A M P J J J J M M P J J J J J M M P J </td <td>P M A M J P P P P P M-L M-L M-L M-L M-L M-L M-L </td> <td>P J F M A M J J P I</td> <td>P A A M J J A P <t< td=""><td>Permissible but marginal data J F M A M J J A S P </td><td>P J F M A M J J A S O P C </td><td>P J F M A M J J A S O N P </td><td>P M A M J J A S O N D P </td></t<></td>	P M A M J P P P P P M-L M-L M-L M-L M-L M-L M-L	P J F M A M J J P I	P A A M J J A P <t< td=""><td>Permissible but marginal data J F M A M J J A S P </td><td>P J F M A M J J A S O P C </td><td>P J F M A M J J A S O N P </td><td>P M A M J J A S O N D P </td></t<>	Permissible but marginal data J F M A M J J A S P	P J F M A M J J A S O P C	P J F M A M J J A S O N P	P M A M J J A S O N D P

MANENT VEGETATION)

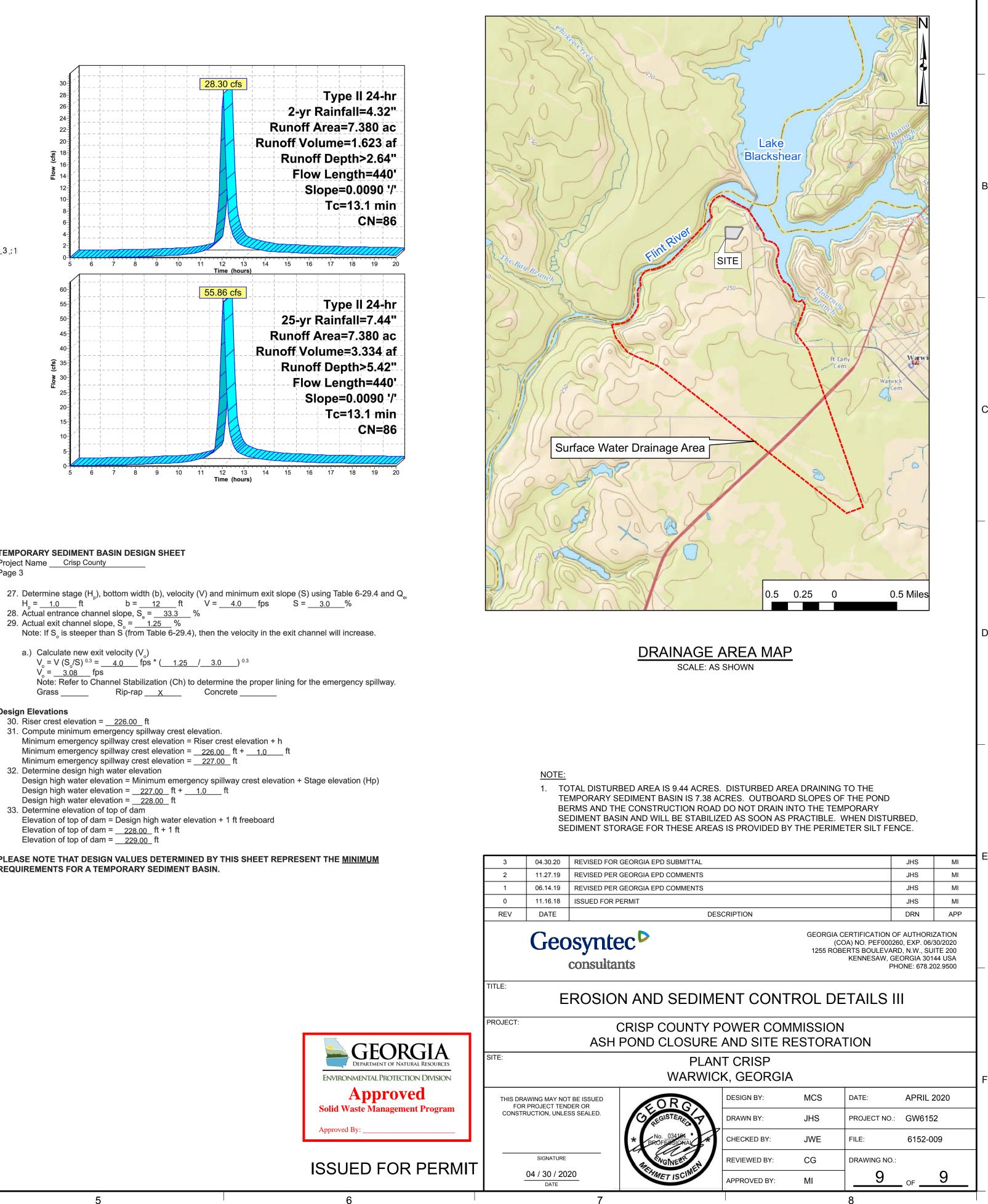








SCALE: NTS



TEMPORARY SEDIMENT BASIN DESIGN SHEET Project Name Crisp County

- $V_0 = 3.08$ fps

Design Elevations

- 30. Riser crest elevation = <u>226.00</u> ft

- 32. Determine design high water elevation
- Design high water elevation = 227.00 ft + 1.0 ft
- 33. Determine elevation of top of dam

PLEASE NOTE THAT DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE MINIMUM **REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.**

