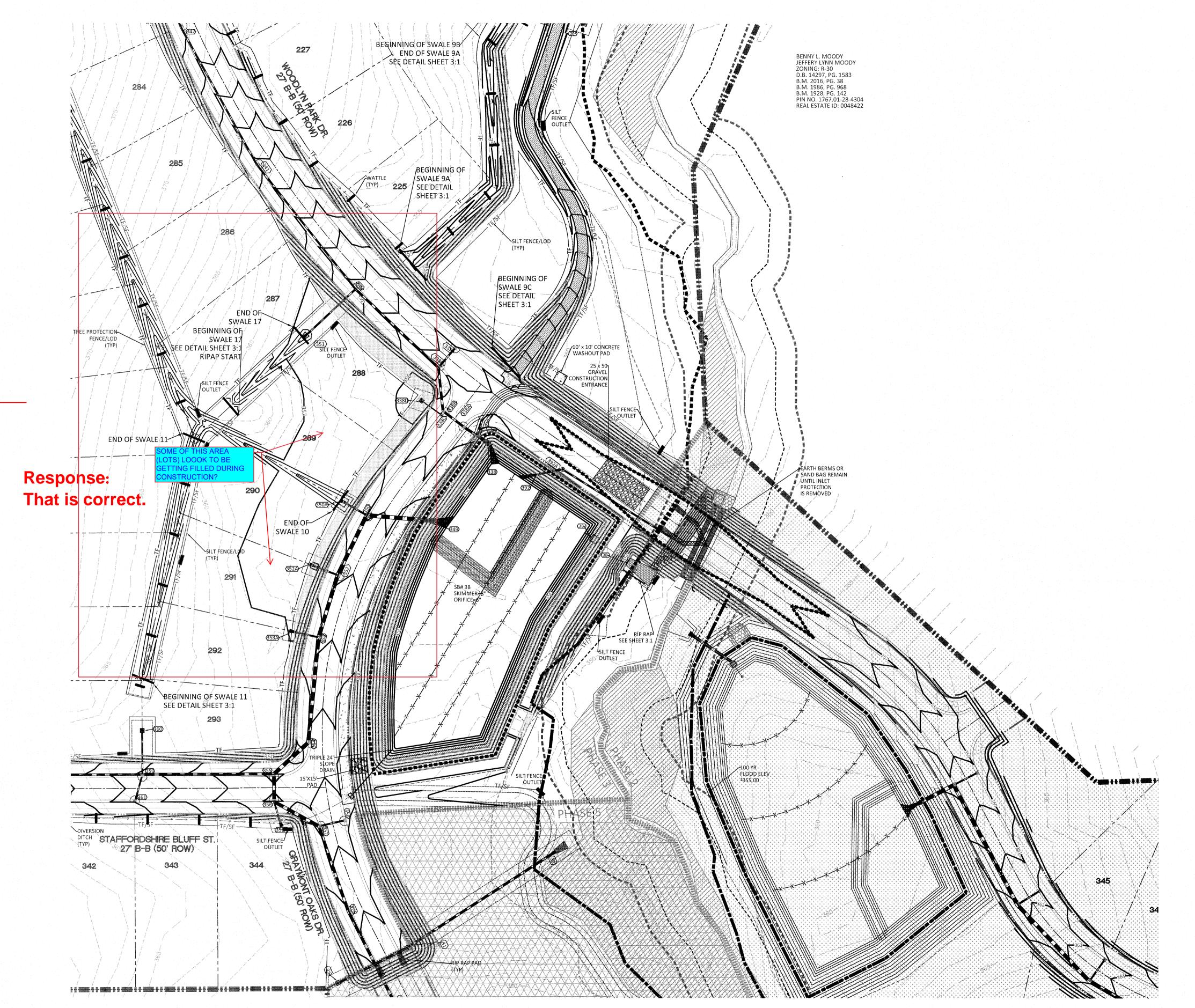


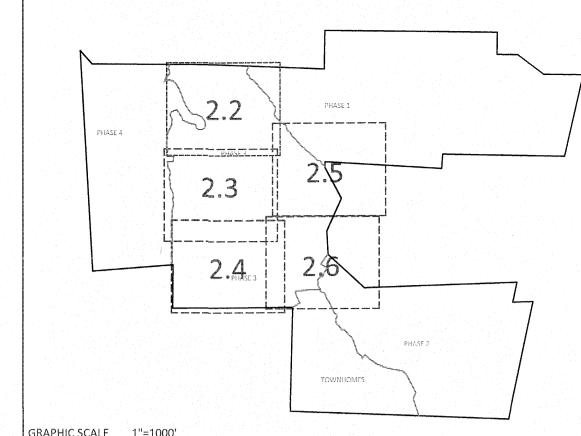




811 or 1-800-632-4949 Remote Ticket Entry

http://nc811.org/remoteticketentry.ht





EROSION CONTROL LEGEND 100 YEAR FLOOD EASEMENT EXISTING TOPOGRAPHY **EXISTING BOUNDARY EXISTING WETLANDS AREA** EXISTING 50' NEUSE RIPERIAN BUFFER **EXISTING BUFFER ZONES** PROPOSED LOT LINE **BUILDING RESTRICTION LINE** PROPOSED ROW PROPOSED SIDEWALK PROPOSED BOC PROPOSED EOP PROPOSED CENTERLINE PROPOSED GRADING PROPOSED EASEMENT PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE PROPOSED RIP RAP BASIN WEIR PROPOSED SEDIMENT BASIN PROPOSED INLET PROTECTION PROPOSED CHECK DAM PROPOSED SF LOW POINT GREENWAY TRAIL HATCH PROPOSED AREAS FOR 7 DAY STABILIZATION PROPOSED EROSION CONTROL BLANKET PROPOSED BASIN MAINTENANCE PAD PROPOSED WATTLE PROPOSED SILT FENCE —X—X—X—X—X— PROPOSED TREE PROTECTION FENCE PROPOSED SILT FENCE/LIMITS OF DISTURBANCE was districted to the state of PROPOSED DIVERSION DITCH PROPOSED SWALE -PROPOSED JUNCTION BOX PROPOSED CATCH BASIN PROPOSED YARD INLET PROPOSED DROP INLET PROPOSED STORM WATER

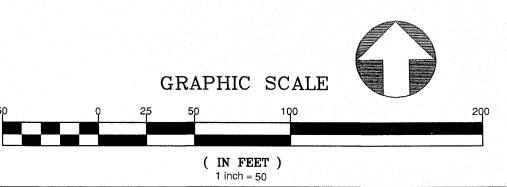
GENERAL NOTES:

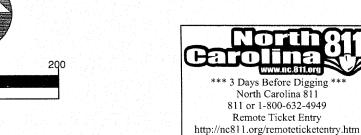
1. ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION. 2. WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.3. WHERE SILT FENCE IS LOCATED OUTSIDE OF TEMPORARY SILT DITCHES THE SILT FENCE

WILL BE THE LIMITS OF DISTURBANCE. 4. SEE SHEET 3.1 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES.

5.DIVERSION SWALE DESIGN, SEE SHEET 3.1 FOR DETAILS AND REFERENCE TABLE. 6.SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.

7.SEE SHEET 3.1 FOR RIP RAP PAD SIZES.





JOB NUMBER: CHECKED BY: DRAWN BY:

DATE: FEB 18, 2021 PHASE 3 **EROSION CONTROL** (50 SCALE)

9900

STIPULATION FOR REUSE

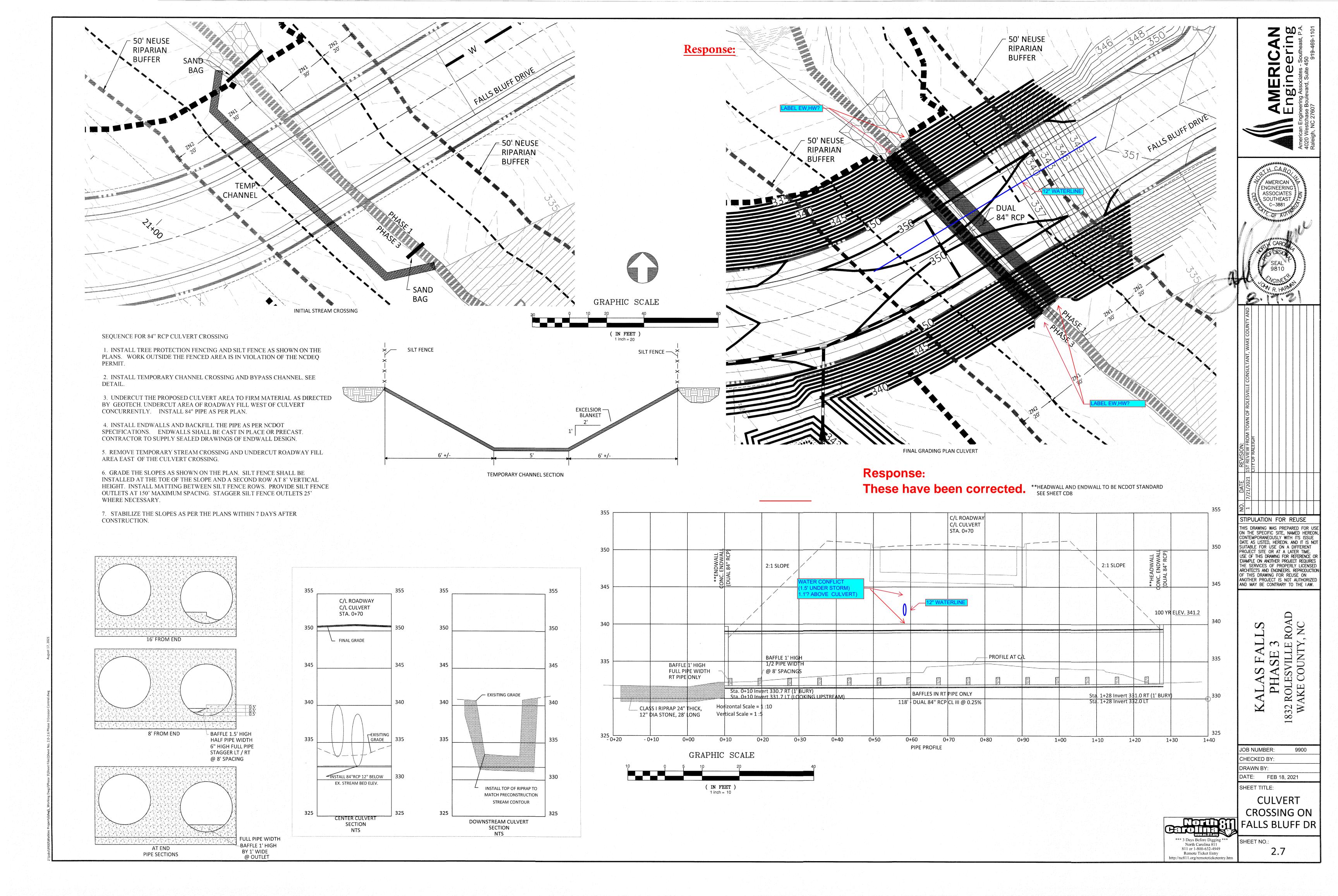
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

[°]AMERICAN

3/17/21

ENGINEERING ASSOCIATES SOUTHEAST

SHEET NO.:



Basin	Bottom	Top of	Top of	Spillway	Weir	Riser/	Ba	sin Dimensio	ns	Skimmer	Skimmer	Anti-
No.	Elev.	Dam Elev.	Riser Elev.	Elev.	Length	Barrel Size	At Top of Dam	At Emerg. Spillway	At Bott. of Basin	Size	Hole Size	Flotation Size*
SCM#3B	348.00	356.00	353.33	354.00	24'	6'x6'	**	**	**	8"	6"	7'x7'x17"
CM#3C	337.00	344.00	342.00	342.50	12'	4'x4'	**	**	**	6"	4"	5'x5'x7.5"
CM#4B	320.00	329.00	326.50	327.50	24'	5'x5'	**	**	** ,	6"	4.5"	6'x6'x37"
SB#403	356.00	361.00	N/A	359.50	10'	N/A	21'x40'	15'x34'	1'x20'	1.5"	0.5"	N/A
SB#404	347.00	352.00	N/A	350.50	12'	N/A	53'x105'	49'x99'	35'x84'	2.5"	2"	N/A
CM#4C	290.00	300.00	296.90	298.50	12'	4'x4'	**	**	**	8"	6"	5'x5'x9"
SB#406	308.00	313.00	N/A	311.50	10'	N/A	34'x64'	28'x58'	14'x44'	2"	1.25"	N/A
SCM#4E	277.00	286.00	284.00	285.00	12'	6'x6'	**	**	**	6"	5"	7'x7'x22.5"
CM#8A	354.00	362.00	360.50	361.00	12'	3'x3'	**	**	**	4"	3"	4'x4'x8"
	W-191											

Minimum slope requirement >0.5%

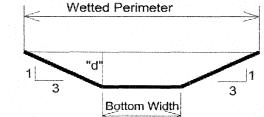
Response: These have been corrected.

Phase 3 Lot Areas

1				. nasc o co	Litteus	
LOT	<u>SQUARE</u>	LOT	<u>SQUARE</u>		<u>LOT</u>	<u>SQUARE</u>
<u>IMBER</u>	FOOTAGE(SF)	NUMBER	FOOTAGE(SF)		<u>NUMBER</u>	FOOTAGE(SF)
96	13,190	203	10,592		274	16,307
97	14,291	204	9,521		275	16,283
98	13,390	205	20,160		276	16,268
99	11,742	206	11,561		277	16,253
100	11,127	207	10,305		278	16,238
101	11,189	208	10,360		279	16,223
102	11,253	209	11,706		280	16,223
103	11,317	210	12,666		281	15,139
104	12,633	211	12,800		282	15,835
105	10,868	212	12,800		283	11,262
106	15,452	213	12,800		284	10,397
107	16,188	214	12,929		285	11,445
108	17,306	215	14,854		286	13,212
109	14,503	216	14,707	-	287	15,801
110	11,400	217	15,091		288	11,576
111	9,455	218	13,611		289	11,575
112	9,592	219	13,684		290	12,808
113	10,044	220	13,757		291	11,394
114	12,212	221	13,830		292	9,909
115	11,203	222	13,903		293	11,097
116	15,386	223	13,972		294	11,849
117	12,552	224	12,583		295	11,300
118	14,846	225	10,906	e de la companya de l	296	12,491
119	13,349	226	10,906		297	14,056
120	10,651	227	10,906		298	15,111
121	10,202	228	10,906	* . !	299	13,279
122	11,981	229	10,906		300	12,079
193	15,664	230	10,906	. * .	301	10,849
194	12,220	231	11,004		302	10,923
195	9,729	232	10,398		303	10,923
196	8,686	233	10,400		304	14,394
197	11,652	234	10,400		305	12,279
198	12,717	235	11,566	+ 1 - A	306	12,236
199	18,066	270	15,021		307	12,194
200	14,471	271	14,802		308	12,151
201	11,591	272	16,386		309	12,108
202	10,033	273	16,406		310	14,179

LOT	SQUARE
<u>NUMBER</u>	FOOTAGE(SF)
311	14,402
312	12,774
313	12,760
314	12,746
315	12,734
316	13,051
317	13,992
318	14,618
319	13,251
320	12,565
321	12,581
322	12,596
323	12,617
324	15,552
325	14,424
326	17,343
327	15,146
328	12,789
329	12,746
330	12,702
331	12,658
332	12,615
333	12,569
334	14,663
335	13,600
336	13,600
337	13,600
338	13,600
339	13,600
340	13,600
341	13,600
342	13,600
343	13,600
344	18,698

Wetted Perimeter



Ditch Section (For Bottom Width = 0)

Trapezoidal Ditch / Swale Section

																	R	IP-RAP PAI)S			
				TRAPE	ZOIDAI	SWALE	DRAINA	GF CH	ART-PHASE THREE	T :					-11			<u> </u>				
Ditch I.D.	D.A., Ac.	С	i10, in/hr	Q10, cfs	Left Side Slope, Z	Right Side Slope, Z	Avg. Ditch Slope, %	Bottom Width	Ditch Lining	Manning,	Q10 Flow Depth,	Flow Velocity	Calc.Shear Stress, psf		6/14/21 Vatkins Property		nedules\Rip-Rap Using	NYSDOT N	lethod			
DS 7A	0.20	0.45	7.22	0.65	Z:1	Z:1 3.00	1.7	0.00	Poinforced Mach/Cross	0.022	ft	V10, fps	0.24	OUTLET	PIPE DIA.	VELOCITY	ZONE	STONE	STONE	WIDTH	LENGTH	DEPTH
DS 7B	0.20	0.43	7.22	1.77	3.00	3.00	1.2	0.00	Reinforced Mesh(Grass) RipRap	0.022	0.32	2.08 4.29	0.24 2.77	NO. FES 30	(IN.) 24	(FPS) 9.36	2	SIZE 6"	CLASS B	(FT.)*	(FT.)	(IN.)
DS 7C	0.78	0.46	7.22	2.59	3.00	3.00	4.0	0.00	RipRap	0.037	0.52	3.12	1.30	FES 3B	48	9.69	3	13"	1	8 17.5	12 32	18
DS 7D	2.05	0.41	7.22	6.07	3.00	3.00	1.2	2.00	RipRap	0.037	0.55	3.04	0.41	FES 3C	18	6.54	1	3"	A	5.5	6	24 12
DS 9A	1.60	0.35	7.22	4.04	3.00	3.00	2.0	1.00	Reinforced Mesh(Grass)	0.022	0.33	3.95	0.55	11230	10	0.54	<u>+</u>	3		3.3	0	12
DS 9B	2.39	0.34	7.22	5.87	3.00	3.00	1.7	1.00	Reinforced Mesh(Grass)	0.022	0.54	4.10	0.58	FES 4B	30	6.76	3***	13"	1	11	20	24
DS 9C	0.68	0.35	7.22	1.72	3.00	3.00	1.0	0.00	Reinforced Mesh(Grass)	0.022	0.48	2.49	0.30	FES 4C	18	7.06	3***	13"	1	6.5	12	24
DS 9D	0.15	0.34	7.22	0.37	3.00	3.00	2.3	0.00	Reinforced Mesh(Grass)	0.022	0.23	2.49	0.33	FES 4E	24	5.55	3***	13"	1	8.75	16	24
DS 9E	0.78	0.34	7.22	1.80	3.00	3.00	1.5	0.00	Reinforced Mesh(Grass)	0.022	0.45	2.28	0.33			3.33	`	13	-	0.73	10	2-1
DS 9F	0.78	0.34	7.22	1.33	3.00	3.00	1.0	0.00	Reinforced Mesh(Grass)	0.022	0.44	2.33	0.42	FES 8A	18	5.01	1	3"	A	5.5	6	12
DS 9G	1.16	0.34	7.22	2.85	3.00	3.00				0.022	0.44	4.85	3.31	FES 17	15	7.41	1	3"	A	4.75	5	12
	 				+		12.0	0.00	RipRap		 		 	FES 19	15	8.34	2	6"	В	5	7.5	18
DS 9H	4.33	0.34	7.22	10.63	3.00	3.00	1.3	2.00	RipRap	0.037	0.82	2.93	0.68								7.5	
DS 91	0.26	0.34	7.22	0.64	3.00	3.00	6.6	0.00	Reinforced Mesh(Grass)	0.022	0.23	3.92	0.96	FES 21	15	4.52	1	3"	A	4.75	5	12
DS 9J	0.50	0.34	7.22	1.23	3.00	3.00	2.0	0.00	Reinforced Mesh(Grass)	0.022	0.37	2.96	0.46	FES 23	18	6.95	2	6"	В	6	9	18
DS 9K	0.83	0.34	7.22	2.04	3.00	3.00	8.4	0.00	RipRap	0.037	0.42	3.90	2.19						 			10
DS 9L	0.81	0.34	7.22	1.99	3.00	3.00	8.3	0.00	RipRap	0.037	0.42	3.86	2.15	SB#403	4	**	1	3"	Α	2	4	12
DS 9M	0.65	0.34	7.22	1.60	3.00	3.00	8.3	0.00	RipRap	0.037	0.38	3.65	1.98	SB#404	4	**	1	3"	A	2	4	12
DS 9N	0.80	0.34	7.22	1.96	3.00	3.00	9.5	0.00	RipRap	0.037	0.40	4.03	2.37	SB#406	4	**	1	3"	A	2	4	12
DS 10A	1.35	0.45	7.22	4.39	3.00	3.00	5.2	2.00	RipRap	0.037	0.37	3.76	1.21									
DS 10B	2.50	0.45	7.22	8.12	3.00	3.00	4.1	2.00	RipRap	0.037	0.54	4.11	1.39	FES 25	18	6.73	2	6"	В	6	9	18
DS 11	0.95	0.45	7.22	3.09	3.00	3.00	0.8	2.00	Reinforced Mesh(Grass)	0.022	0.39	2.53	0.19	FES 330	18	5.53	1	3"	A	5.5	6	12
DS 12	2.33	0.31	7.22	5.22	3.00	3.00	1.0	3.00	Reinforced Mesh(Grass)	0.022	0.41	3.05	0.25	FES 338	24	5.73	2	6"	В	8	12	18
DS 13	1.05	0.45	7.22	3.41	3.00	3.00	7.0	1.00	RipRap	0.037	0.40	4.16	1.75					-				10
DS 14A	0.76	0.50	7.22	2.74	3.00	3.00	7.0	1.00	RipRap	0.037	0.35	3.86	1.53	FES 349	42	5.77	2	6"	В	14	21	18
DS 14B	0.90	0.46	7.22	2.99	3.00	3.00	4.0	0.00	RipRap	0.037	0.55	3.24	1.37	FES 392	18	4.07	1	3"	A	5.5	6	12
DS 15A	0.05	0.20	7.22	0.07	3.00	3.00	1.5	0.00	Reinforced Mesh(Grass)	0.022	0.15	1.39	0.14	FES 401	24	7.55	2	6"	В	8	12	18
DS 15B	0.28	0.38	7.22	0.77	3.00	3.00	9.0	0.00	RipRap	0.037	0.30	3.23	1.68									
DS 15C	1.07	0.48	7.22	3.71	3.00	3.00	1.5	1.00	Reinforced Mesh(Grass)	0.022	0.46	3.50	0.43	FES 419	30	12.91	3	13"	1	11	20	24
DS 17	0.87	0.4	7.22	2.51	3.00	3.00	5.3	2.00	RipRap	0.037	0.28	3.21	0.91	FES 469	36	8.89	2	6"	В	12	18	18
DS 24A	0.34	0.49	7.22	1.20	3.00	3.00	6.9	2.00	Reinforced Mesh(Grass)	0.022	0.13	3.95	0.55	FES 800	18	8.76	2	6"	В	6	9	18
DS 24B	1.03	0.49	7.22	3.64	3.00	3.00	6.9	2.00	RipRap	0.037	0.31	3.93	1.35									
DS 25	0.69	0.49	7.22	2.44	3.00	3.00	2.1	2.00	Reinforced Mesh(Grass)	0.022	0.26	3.31	0.35	FES 815	15	6.13	1	3"	Α	4.75	5	12
DS 26A	0.20	0.49	7.22	0.71	3.00	3.00	4.0	2.00	Reinforced Mesh(Grass)	0.022	0.11	2.76	0.28									
DS 26B	0.90	0.49	7.22	3.18	3.00	3.00	2.0	2.00	RipRap	0.037	0.41	2.44	0.51									
DS 27	0.92	0.49	7.22	3.25	3.00	3.00	4.6	2.00	RipRap	0.037	0.33	3.30	0.95		Sediment b				shown by t	he perman	ent SCM nur	nber.
DS 34	0.53	0.4	7.22	1.53	3.00	3.00	6.0	2.00	Reinforced Mesh(Grass)	0.022	0.15	4.06	0.56		am width, u	The state of the s						
DS 34A	0.11	0.4	7.22	0.32	3.00	3.00	2.4	2.00	Reinforced Mesh(Grass)	0.022	0.08	1.77	0.12		ocity very sr	nall as it cor	mes throug	n max. 2" o	rifice only a	few inches	below the	
DS 34B	0.12	0.4	7.22	0.35	3.00	3.00	3.3	2.00	Reinforced Mesh(Grass)	0.022	0.08	2.02	0.16	surface.								
DS 34C	0.13	0.4	7.22	0.38	3.00	3.00	3.7	2.00	Reinforced Mesh(Grass)	0.022	0.08	2.16	0.18	***Next hi	gher zone d	ue to steep	ground slop	e				

				-					
CB 331	CB 334	18	62.09	1.60	350.64	351.42	342.45	343.44	6.98
CB 331	CB 332	15	73.93	0.50	350.64	350.10	342.45	342.82	3.82
CB 332	CB 332 A	15	9.00	1.00	350.10	350.09	343.02	343.11	3.07
CB 332 A	CB 333	15	41.00	1.00	350.09	350.09	343.31	343.72	2.77
CB 333	CB 333 A	15	9.00	1.00	350.09	350.10	343.92	344.01	2.12
CB 334	CB 335	18	108.80	1.25	351.42	351.67	343.64	345.00	4.46
CB 335	CB 336	18	45.96	0.50	351.67	350.19	345.20	345.43	3.66
CB 336	CB 337	15	27.00	0.52	350.19	350.19	345.62	345.76	3.05
CB 336	CB 336 A	15	9.00	0.50	350.19	350.60	345.83	345.88	1.73
CB 337	CB 337 A	15	9.00	2.78	350.19	350.60	345.75	346.00	1.44
CB 338 A	CB 338 B	24	27.00	0.40	356.51	356.51	351.78	351.89	4.43
							351.78	352.58	3.66
CB 338 B	CB 338 E	24	42.16	1.40	356.51	358.02			
CB 338 B	CB 338 C	15	4.00	0.45	356.51	356.57	352.64	352.66	2.13
CB 338 C	YI 338 D	15	22.54	0.50	356.57	355.75	352.76	352.87	1.95
CB 338 E	CB 340	24	111.08	0.50	358.02	360.18	352.68	353.24	3.94
CB 338 E	CB 339	18	27.05	0.50	358.02	358.01	353.26	353.40	1.71
CB 340	FES INLET 351	18	64.00	1.02	360.18	356.22	353.74	354.39	3.13
CB 340	CB 341	18	153.88	1.56	360.18	364.24	353.74	356.14	6.89
CB 341	CB 342	18	153.88	2.81	364.24	368.23	356.34	360.66	3.10
CB 342	CB 343	15	68.21	3.29	368.23	369.09	360.91	363.15	3.20
CB 343	CB 344	15	42.17	0.54	369.09	368.34	363.35	363.58	3.60
CB 344	CB 346	15	201.96	3.08	368.34	375.31	363.77	370.00	2.19
CB 344	CB 345	15	27.00	0.51	368.34	368.34	363.77	363.91	1.57
CB 346	CB 347	15	41.14	0.92	375.31	374.96	370.20	370.57	3.10
CB 347	CB 348	15	27.00	0.49	374.96	374.96	370.77	370.91	2.13
CB 350	FES INLET 350 A	18	24.00	0.43	358.36	355.66	353.79	353.91	1.72
CB 350	CB 352	42	64.32	0.48	358.36	359.29	351.99	352.38	5.21
CB 350	FES INLET 352 A	15	24.00	0.59	359.29	359.29	354.63	352.38	0.46
				ļ			354.63		
CB 352	CB 353	42	63.17	0.61	359.29	360.19		352.96	5.17
CB 353	FES INLET 353 A	15	24.00	1.21	360.19	357.00	355.21	355.50	0.86
CB 353	CB 354	42	102.76	1.20	360.19	361.68	353.16	354.39	5.19
CB 354	CB 355	42	45.16	0.50	361.68	361.28	354.59	354.82	5.57
CB 355	CB 359	30	127.82	1.00	361.28	363.86	355.82	357.10	4.14
CB 355	CB 356	36	26.94	1.13	361.28	361.28	355.32	355.62	5.09
CB 356	FES INLET356 A	15	20.86	1.00	361.28	359.25	357.37	357.58	1.08
CB 356	CB 357	36	49.57	0.61	361.28	362.85	355.72	356.02	4.69
CB 357	CB 374	36	87.91	1.78	362.85	364.11	356.12	357.69	4.83
CB 357	CB 358	15	27.10	1.26	362.85	362.85	357.08	357.43	0.46
CB 359	YI 360	15	42.66	0.77	363.86	361.55	357.15	357.48	0.51
CB 359	CB 362	24	130.78	3.52	363.86	366.99	357.80	362.40	4.87
CB 359	CB 361	15	28.03	0.65	363.86	364.01	357.15	357.33	0.82
CB 362	CB 364	24	43.13	0.63	366.99	367.90	362.60	362.87	4.53
CB 362	CB 363	15	45.61	2.67	366.99	368.43	363.00	364.22	1.51
CB 364	CB 365	24	27.00	0.69	367.90	367.90	363.07	363.26	3.85
CB 365	CB 369	18	145.69	0.73	367.90	369.29	363.76	364.83	4.89
CB 365	CB 366	18	43.13	5.30	367.90	370.95	363.76	366.04	1.90
CB 366		15		5.21			366.29	369.97	2.21
	CB 367		70.67	 	370.95	375.24			
CB 367	YI 368	15	28.00	5.81	375.24	375.30	370.17	371.80	2.25
CB 369	YI 369 A	15	82.77	8.88	369.29	377.00	365.13	372.48	2.16
CB 369	CB 369 A	18	9.00	0.40	369.29	368.88	365.03	365.06	3.66
CB 369 A	CB 370	18	180.08	2.01	368.88	373.39	365.26	368.88	3.67
CB 370	CB 371	15	44.69	1.35	373.39	374.52	369.08	369.68	4.11
CB 371	CB 372	15	27.00	0.99	374.52	374.52	369.88	370.15	3.61
CB 372	CB 373	15	44.43	0.90	374.52	376.95	370.35	370.75	1.81
CB 374	CB 374 A	30	100.60	0.90	364.11	365.58	358.19	359.10	7.38
CB 374 A	FES 374 B	24	70.90	0.51	365.58	362.00	359.60	359.95	0.88
CB 374 A	CB 375	30	100.00	1.49	365.58	367.06	359.30	360.79	5.96
CB 393	CB 394	15	27.00	0.50	355.69	355.69	351.98	352.12	3.31
CB 393	CB 393 A	15	7.91	0.50	355.69	355.69	351.83	351.87	1.15
CB 394	CB 394 A	15	7.91	0.56	355.69	355.69	352.21	352.25	1.65
CB 404	CB 406	24	53.56	6.48	307.96	309.06	298.20	301.67	5.01
CB 404	CB 405	15	57.26	0.75	307.96	306.23	298.75	299.18	2.07
CB 405	CB 405 A	15	8.00	1.71	306.23	306.23	299.38	299.52	2.27
CB 406	CB 407	24	39.46	3.62	309.06	310.07	301.87	303.30	4.12
CB 407	CB 407	24	105.43	2.60	310.07	312.90	303.50	306.24	4.12
CB 407	CB 409	24		 					
			160.14	2.50	312.90	316.92	306.44	310.44	4.09
CB 409	CB 410 A	24	160.00	3.37	316.92	322.42	310.64	316.04	4.34
CB 410	CB 410 A	18	76.13	4.23	322.42	325.70	316.54	319.76	4.34
CB 410 A	CB 411	18	69.57	4.24	325.70	328.63	319.96	322.91	4.64
CB 411	CB 411 A	15	68.03	3.79	328.63	331.49	323.16	325.74	4.88
CB 411 A	CB 412	15	66.18	3.79	331.49	334.39	325.94	328.45	3.92
CB 412	CB 413	15	44.23	6.30	334.39	338.12	328.65	331.44	3.41
CB 413	CB 414	15	41.00	0.71	338.12	338.12	331.64	331.93	2.10
CB 420	CB 422	30	88.97	4.99	315.51	322.99	305.63	310.07	16.24
CB 420	CB 421	15	38.65	4.58	315.51	313.46	304.00	305.77	0.76
CB 422	CB 423	30	83.20	5.00	322.99	329.75	316.23	320.39	16.21
CB 423	CB 423 A	30	27.00	0.49	329.75	329.75	322.25	322.38	5.39
CB 423 A	CB 424	30	56.34	5.02	329.75	331.49	322.58	325.41	5.24
CB 424	CB 439	24	43.96	0.50	331.49	331.44	325.91	326.13	3.09
CB 424	CB 425	24	67.56		FY RIM	332.00	325.91	326.25	6.54
		·			PROFILE				

PIPING & STRUCTURES SUMMARY-PHASE THREE

Downstream Upstream Downstream Upstream

Are all these structures built in this phase? Please identify the location of these structures on

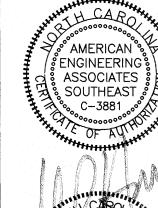
SEE DETAIL FOR ONLY (1) ROAD CULVERT CROSSING (SHEETS 2.7) NO EW/HW LABELS

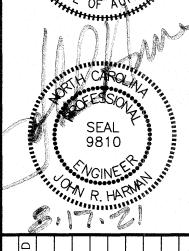
> Response: That is correct.

Downstream Structure	Upstream Structure	Pipe Size (in)	Length (ft)	Slope (%)	Downstream Rim Elev (ft)	Upstream Rim Elev (ft)	Invert (ft)	Invert (ft)	Downstr Velocity
CB 425	S INLET 425	15	15.55	5.00	332.00	330.25	327.20	327.98	0.49
CB 425	CB 426	24	108.27	1.72	332.00	334.64	326.45	328.32	5.12
CB 426 CB 427	CB 427 CB 428	24 24	38.89	3.51 2.33	334.64 336.48	336.48 336.62	328.52 330.08	329.88 330.71	5.39 5.23
CB 427	CB 428	24	27.00 62.00	1.00	336.62	337.88	330.08	331.53	4.70
CB 429	YI 429 A	15	159.50	4.55	337.88	348.37	332.28	339.53	0.81
CB 429	CB 430	24	70.00	1.00	337.88	339.38	331.73	332.43	4.70
CB 430 CB 431	CB 431 CB 438	24 15	50.10 27.03	1.50 1.74	339.38 340.49	340.49 340.49	332.63 334.13	333.38 334.60	4.92 0.85
CB 431	CB 432	24	63.60	1.50	340.49	340.40	333.58	334.53	4.39
CB 432	CB 433	18	47.32	0.69	340.40	340.80	335.03	335.36	5.47
CB 433 CB 434	CB 434 CB 435	18 18	29.17 46.09	4.70 1.50	340.80 341.38	341.38 342.29	335.56 337.13	336.93 337.82	4.65 4.85
CB 434 CB 435	CB 436	15	63.82	1.18	342.29	342.29	338.02	338.78	5.47
CB 436	YI 437	15	145.44	6.78	343.23	355.57	338.98	348.84	3.52
CB 439	CB 439 A	24	9.00	0.50	331.44	331.44	326.33	326.38	3.50
CB 439 A CB 439 B	CB 439 B CB 440	24 18	9.00 67.25	0.56 0.51	331.44 331.44	331.44 332.02	326.57 327.12	326.62 327.46	3.76 5.39
	S INLET 440		25.53	0.50	332.02	329.10	327.46	327.58	0.60
CB 440	CB 441	15	136.53	2.25	332.02	336.00	327.71	330.77	3.19
CB 441	CB 442	15	49.19	3.10	336.00	337.93	330.97	332.50	3.26
CB 442 CB 443	CB 443 CB 443 A	15 15	27.00 5.00	1.02 1.00	337.93 337.93	337.93 338.18	332.70 333.17	332.97 333.22	3.33 2.05
CB 470	CB 471	15	41.00	1.00	331.48	331.48	326.89	327.30	3.23
CB 470	CB 470 A	15	5.00	1.00	331.48	331.48	326.90	326.95	1.42
CB 471	CB 471 A	15	5.73	1.00	331.48	331.48	327.50	327.56	2.12
CB 472 CB 472	CB 473 CB 470	36 15	129.39 90.41	1.75 1.21	332.75 332.75	340.76 331.48	326.75 325.60	329.01 326.69	10.43 5.43
CB 473	CB 474	36	42.58	1.99	340.76	341.33	333.94	334.79	10.78
CB 474	CB 475	36	103.49	6.00	341.33	347.65	334.99	341.20	3.89
CB 475	YI 475 A	15 30	48.00 260.35	9.00 5.33	347.65	357.25	342.95	347.27 355.72	7.40 3.99
CB 475 CB 476	CB 476 CB 477	30 30	45.96	5.33 3.00	347.65 361.52	361.52 362.41	341.85 355.92	355.72 357.30	4.74
CB 477	CB 478	30	27.00	1.00	362.41	362.41	357.50	357.77	5.01
CB 477	CB 477 A	15	5.02	1.02	362.41	362.42	358.55	358.60	2.03
CB 478 CB 478	CB 481 CB 478 A	24 18	45.86 5.00	0.50 1.00	362.41 362.41	364.47 362.42	358.27 358.77	358.50 358.82	5.63 5.80
CB 478 A	CB 478 A	18	136.00	3.38	362.42	368.46	359.02	363.61	2.55
CB 479	CB 480	15	150.00	2.43	368.46	372.96	363.91	367.56	2.07
CB 481	CB 483	24	139.49	1.46	364.47	366.70	358.70	360.74	4.20
CB 481 CB 483	CB 482 YI 483-A	18 15	60.25 32.00	1.00 9.84	364.47 366.70	365.42 370.75	359.03 360.99	359.63 364.14	0.95 0.58
CB 483	CB 484	18	80.00	1.00	366.70	367.65	361.24	362.04	6.49
CB 484	CB 484 A	18	9.00	0.50	367.65	367.76	362.24	362.29	5.44
CB 484 A	CB 485	18	72.90	0.67	367.76	368.63	362.58	363.06	5.11
CB 485 CB 486	CB 486 CB 488	18 18	46.17 125.81	1.00 6.31	368.63 368.33	368.33 377.07	363.26 363.92	363.72 371.86	4.50 2.52
CB 486	CB 487	18	27.00	0.49	368.33	368.33	363.92	364.06	2.93
CB 487	CB 490	15	46.06	1.01	368.33	369.73	364.31	364.77	3.40
CB 488	YI 488-A	15	72.00	4.00	377.07	379.50	371.86	374.74	0.45 3.19
CB 488 CB 489	CB 489 YI 489-A	15 15	27.69 95.32	1.01 5.00	377.07 377.49	377.49 381.25	372.11 372.42	372.39 377.19	2.27
CB 490	CB 491	15	32.00	1.00	369.73	370.12	364.97	365.29	2.22
CB 801	CB 809	18	45.96	7.18	366.71	367.02	359.70	363.00	13.09
CB 801 CB 801	CB 804 CB 802	15	41.00	1.60	366.71	366.71	358.45 358.40	359.11 359.11	1.32 0.68
CB 801	CB 802	15 15	127.12 41.00	0.56 0.50	366.71 363.22	363.22 363.22	359.31	359.52	2.27
CB 804	CB 805	15	45.96	0.50	366.71	367.02	359.31	359.53	3.05
CB 805	CB 807	15	141.83	0.50	367.02	365.31	359.73	360.44	2.71
CB 805 CB 807	CB 806 CB 808	15 15	27.00 27.00	0.48	367.02 365.31	367.02 365.31	360.95 360.64	361.09 360.78	2.02
CB 809	CB 810	18	27.00	1.44	367.02	367.02	363.40	363.79	3.32
CB 810	CB 814	15	143.21	3.65	367.02	372.99	364.04	369.26	1.75
CB 810	CB 811	15 15	45.96	0.50	367.02	369.20	364.04	364.27	1.31
CB 811 EW 3	CB 813 HW 4	15 84	41.00 118.00	0.50 0.25	369.20 339.70	369.20 340.00	364.47	364.67 332.00	0.81
EW 5	HW 6	60	78.00	0.26	351.80	352.00	345.80	346.00	10.34
EW 7	HW 8	54	78.00	3.78	351.80	352.00	344.05	347.00	22.81
FFS 815	HW 2	84	118.00	0.25	339.70	340.00	330.70	331.00	10.16
FES SCM 8A	JB SCM 8A		66.55 155.99	1.50 0.52	359.00 357.00	360.00 361.00	357.50 352.94	358.50 353.75	6.13 3.62
FES 17	ES INLET 18		24.39	4.10	306.50	308.50	305.00	306.00	7.41
FES 19	ES INLET 20		26.23	5.72	326.50	328.50	324.40	325.90	8.34
FES 21	FES INLET 22 FES INLET 24	·	24.00	1.04	344.75	346.07	343.25	343.50 343.25	4.52
 	ES INLET 26		38.42 36.43	0.65 1.00	345.33 342.00	345.71 344.78	343.00 340.50	343.25 340.86	6.95 6.73
FES 30	JB 31	30	127.63	1.29	355.50	365.21	353.00	354.65	9.97
FES 330	CB 331	18	43.46	0.50	342.52	350.64	340.50	340.72	5.53
FES 338 FES 349	CB 338 A CB 350	24 42	20.97 58.98	0.40 0.50	353.44 355.00	356.51	351.50 351.50	351.58 351.79	5.73 5.77
FES 349 FES 392	JB 392 A	18	22.66	0.30	355.00	358.36 356.41	351.50	351.79	4.07
FES 401	YI 402	24	60.28	0.43	291.90	289.50	280.50	281.00	7.55
FES 419	YI 419 A	30	200.79	2.50	311.00	309.00	293.50	298.52	12.91
FES 469 FES 800	CB 472 CB 801	36 18	34.39 35.14	1.02	331.68 363.30	332.75 366.71	323.50 357.50	323.85 358.20	8.89 8.76
FES SCM 3B	OS SCM 3B		54.00	0.54	348.94	353.33	357.50	348.00	9.69
FES SCM 3C	OS SCM 3C		64.01	0.50	338.81	342.00	336.68	337.00	6.89
FES SCM 4B	OS SCM 4B		75.17	0.67	312.93	327.00	310.00	310.50	7.15
FES SCM 4C	OS SCM 4C		59.15	1.69	290.50	296.90	289.00	290.00	6.94
FES SCM 4E JB 31	OS SCM 4E YI 32	24 30	49.13 75.53	1.02 0.50	279.00 365.21	284.00 359.19	276.50 354.85	277.00 355.23	5.03 7.07
JB 392 A	CB 393	18	127.25	0.40	356.41	355.69	351.22	351.73	3.22
	OS SCM 8A	18	29.12	0.52	361.00	360.50	353.85	354.00	1.71
	YI 403	24	132.83	9.49	289.50	304.09	281.75	294.35	5.54
YI 402 YI 403	CB 404	24	38.88	8.87	304.09	307.96	294.55	298.00	5.38

PIPING & STRUCTURES SUMMARY-PHASE THREE

Downstream | Upstream | Pipe Size





STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

JOB NUMBER: 9900 CHECKED BY: DRAWN BY: DATE: FEB 18, 2021

SHEET TITLE: SCHEDULE PLAN

Carolina Carolina

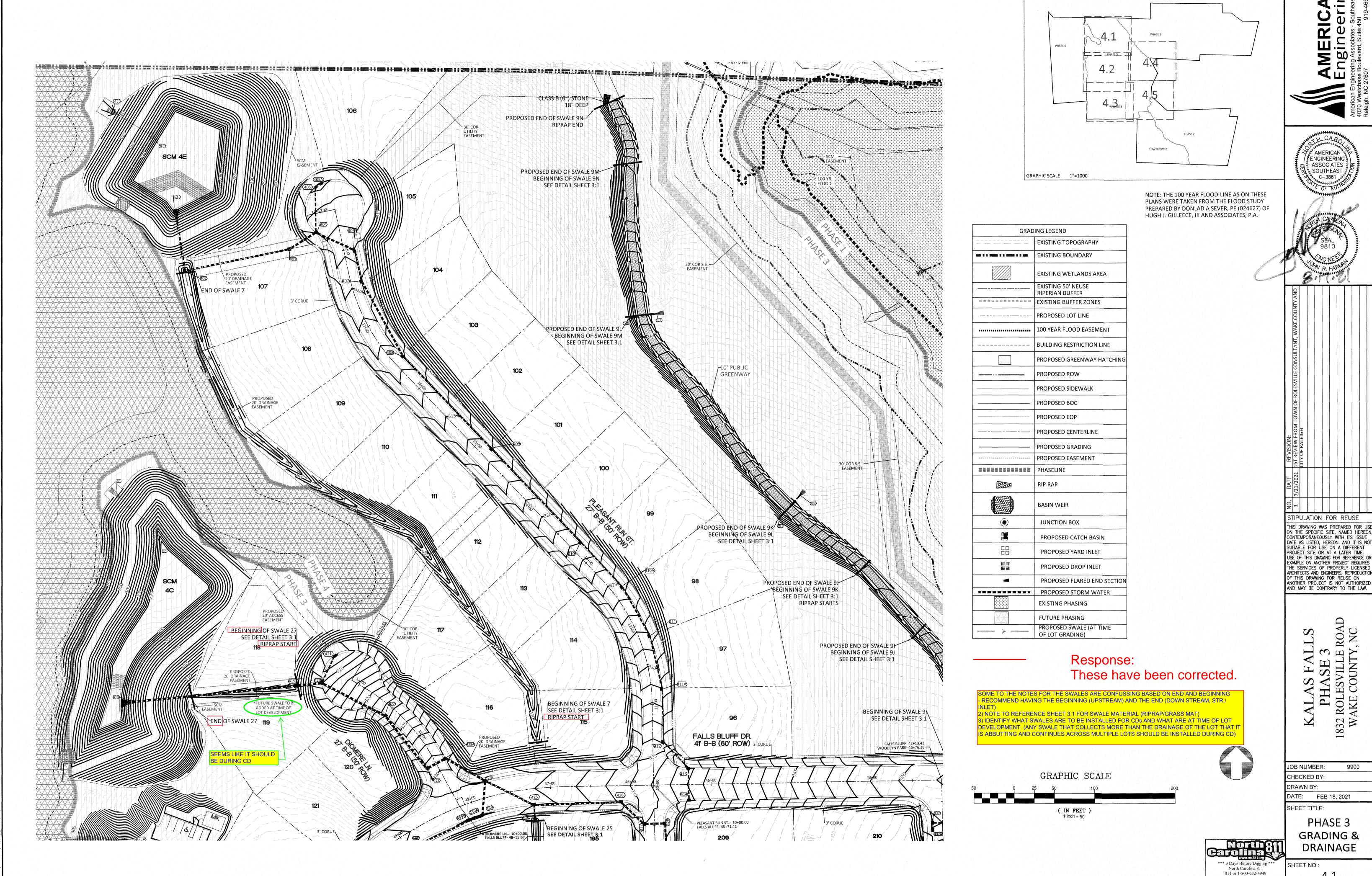
*** 3 Days Before Digging *** North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remoteticketentr

SHEET NO.: 3.1

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit #

The City of Raleigh consents to the connection and extension of the City's **Public Water System** as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Depretment Permit #

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _



ENGINEERIN ASSOCIATES

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION

9900 DATE: FEB 18, 2021

PHASE 3

GRADING & DRAINAGE

4.1

Remote Ticket Entry http://nc811.org/remoteticketentry.h

