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Sussex County DELAWARE sussexcountyde.gov

Memorandum

To: Sussex County Planning Commission Members

From: Jamie Whitehouse, Director, Department of Planning & Zoning; Lauren DeVore, Planner III; Jenny Norwood, Planner I, Christin Headley, Planner I, Nicholas Torrance, Planner I and Chase Philips, Planner I

CC: Vince Robertson, Assistant County Attorney

Date: May 21, 2020

RE: Other Business for May 28, 2020 Planning Commission Meeting

This memo is to provide background for the Planning Commission to consider as a part of the Other Business to be reviewed during the May 28, 2020 Planning Commission meeting.

Acadia Subdivision (2018-01)

KS

Final Subdivision Plan

This is a Final Subdivision Plan for a major subdivision to consist of 234 single-family dwellings, site improvements and open space, using the cluster development option. The site is a 117.21-acre parcel of land that is accessed from Dorman Road (S.C.R. 288A) and Robinsonville Road (S.C.R. 277). The Preliminary Subdivision Plan was approved by the Planning and Zoning Commission at its meeting of Thursday, May 24, 2018. The Final Subdivision Plan complies with the Sussex County Zoning and Subdivision Code and all conditions of approval. Tax Parcels: 234-11.00-60.00, 62.03 and 64.00. Zoning: AR-1 (Agricultural Residential Zoning District). Staff are in receipt of all agency approvals.

Lands of Michael W. & Mary E. Peterson (2019-26)

BM

Final Subdivision Plan

This is a Final Subdivision Plan for a for a major subdivision within the existing Layton Subdivision to consist of 6 lots on 2.0124 acres with Lots 6-8 having access off Jerry Drive and Lots 6a-8a having access off Railway Road (S.C.R. 350). The parcels are located on the north side of Railway Road (S.C.R. 350) and on the south side of Jerry Drive. The Preliminary Subdivision Plan was approved by the Planning and Zoning Commission at its meeting of Thursday, January 23, 2020. The Commission approved the Preliminary Subdivision subject to the receipt of a shared use maintenance agreement for Jerry Drive. A General Note has been added to the plans explaining this to address the Commission's earlier request. Tax Parcels: 134-8.00-29.00, 30.00 & 30.01. Zoning: GR (General Residential Zoning District.) Staff are in receipt of all agency approvals.

Wellesley Subdivision (2018-7)

BM

Final Amenities Plan

This is a Final Amenities Plan for the construction of a proposed two-story, 2,016 square foot clubhouse, pool and pool deck, 14 parking spaces and other site improvements located off of Clearview Drive in the existing Wellesley subdivision. The Final Subdivision Plan was approved by the Planning and Zoning Commission at its meeting of Thursday, June 27, 2019. The Final Amenities Plan complies with the Sussex County Zoning and Subdivision Code and all conditions of approval. Tax Parcels: 334-12.00-46.01 (a portion of) 113.00 (a portion of) 116.00. Zoning: AR-1



Planning & Zoning Commission Other Business Memo for 05.28.2020 P a g e | 2

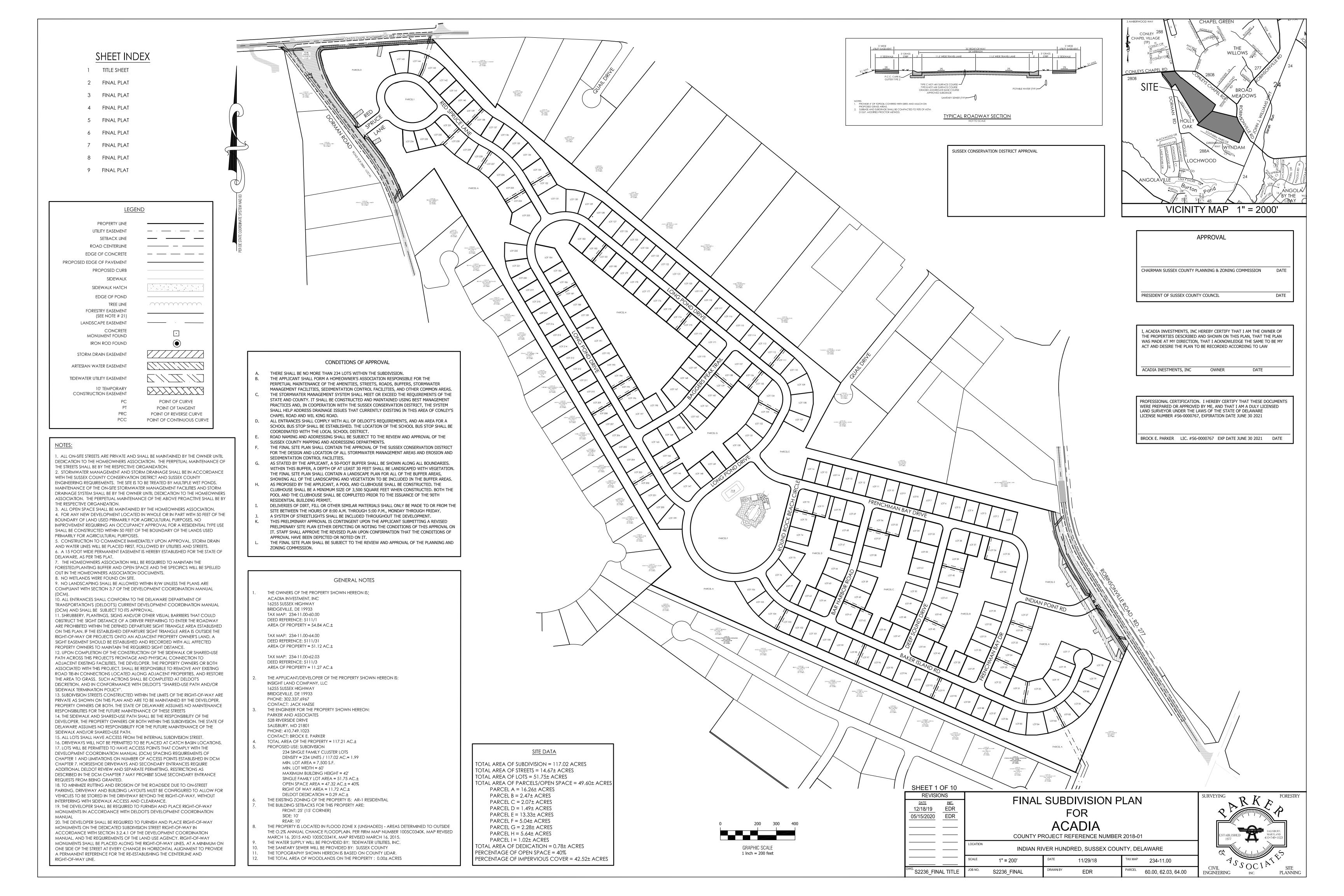
(Agricultural Residential Zoning District). Staff are in receipt of all agency approvals.

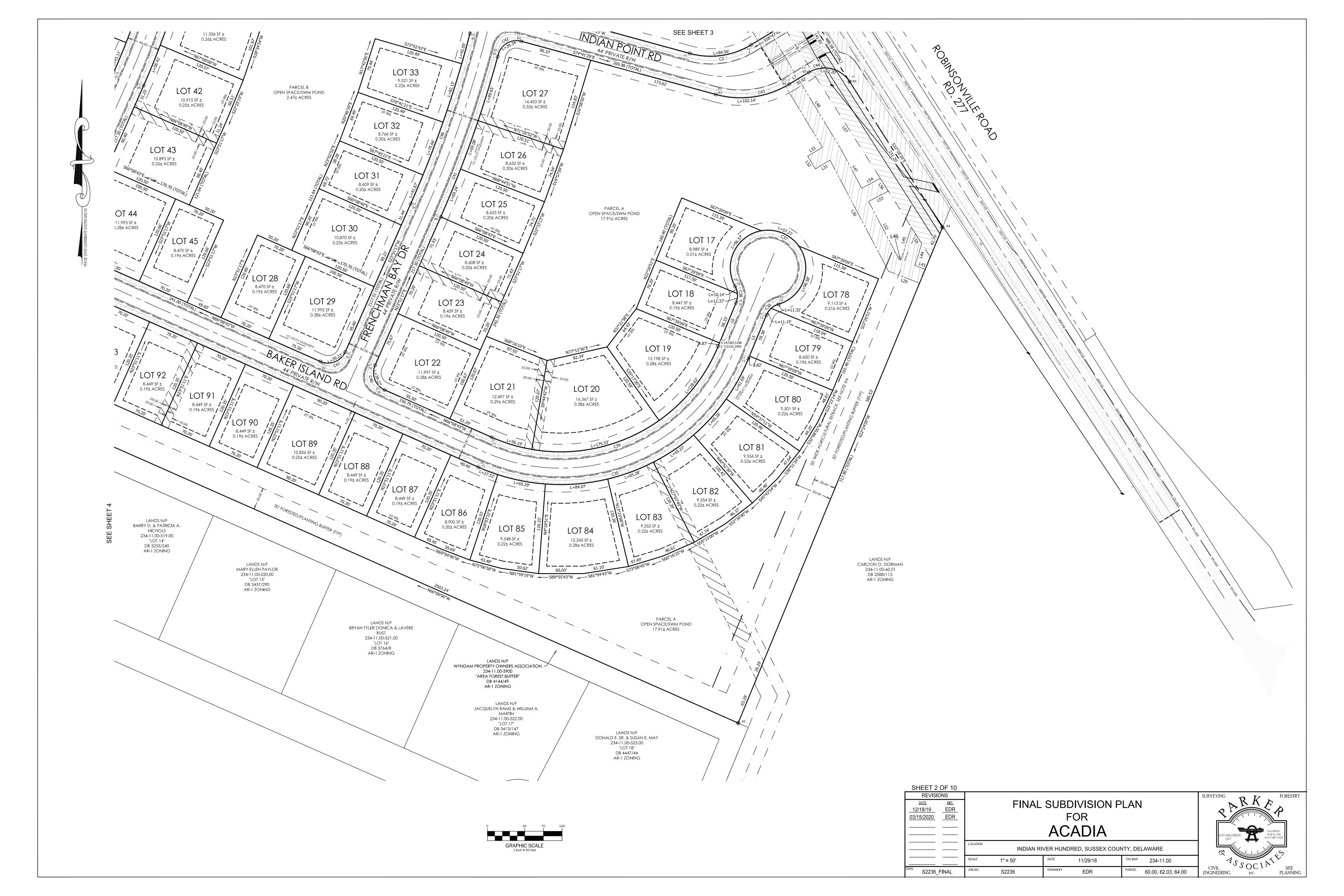
S-20-05 PJM Properties, LLC

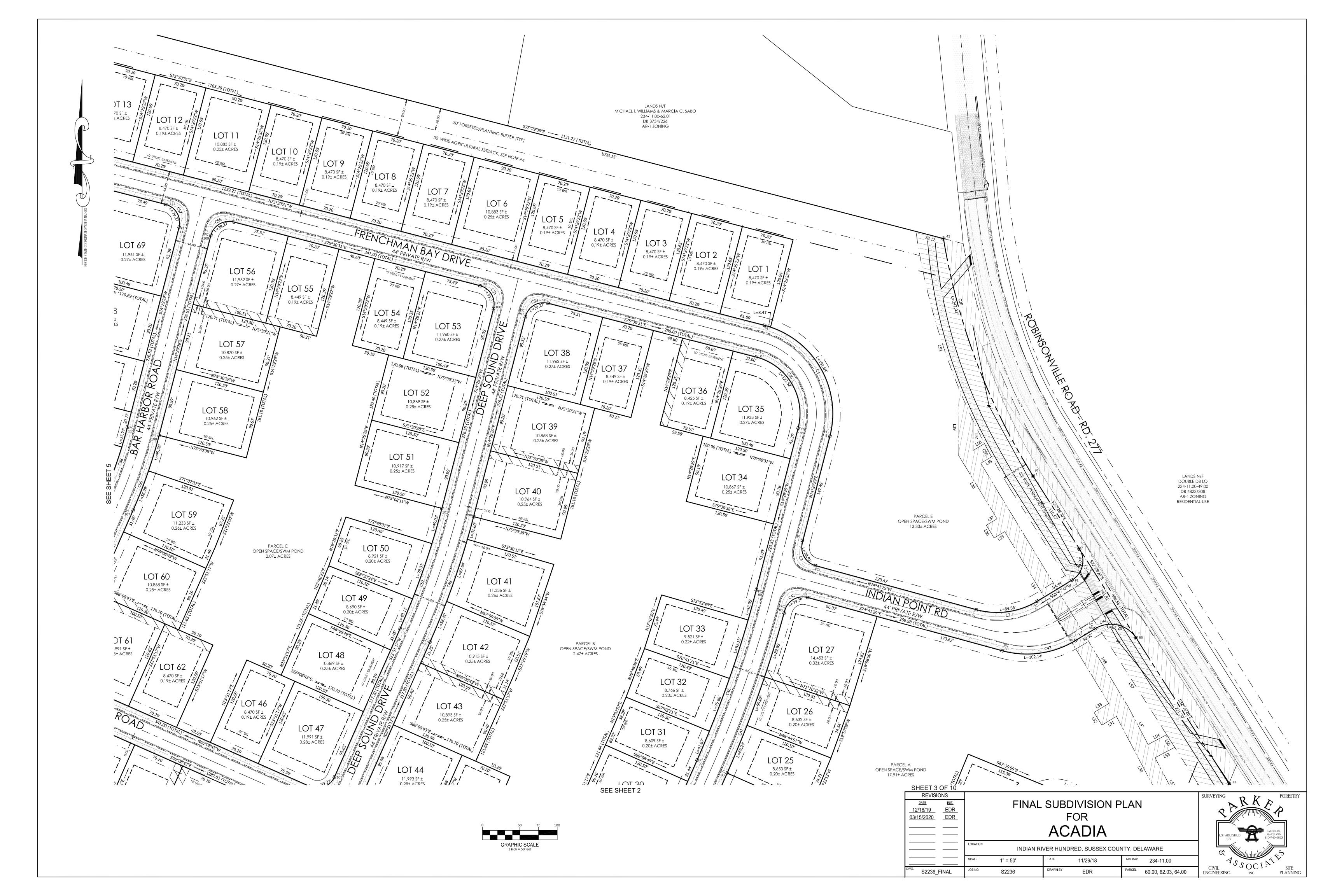
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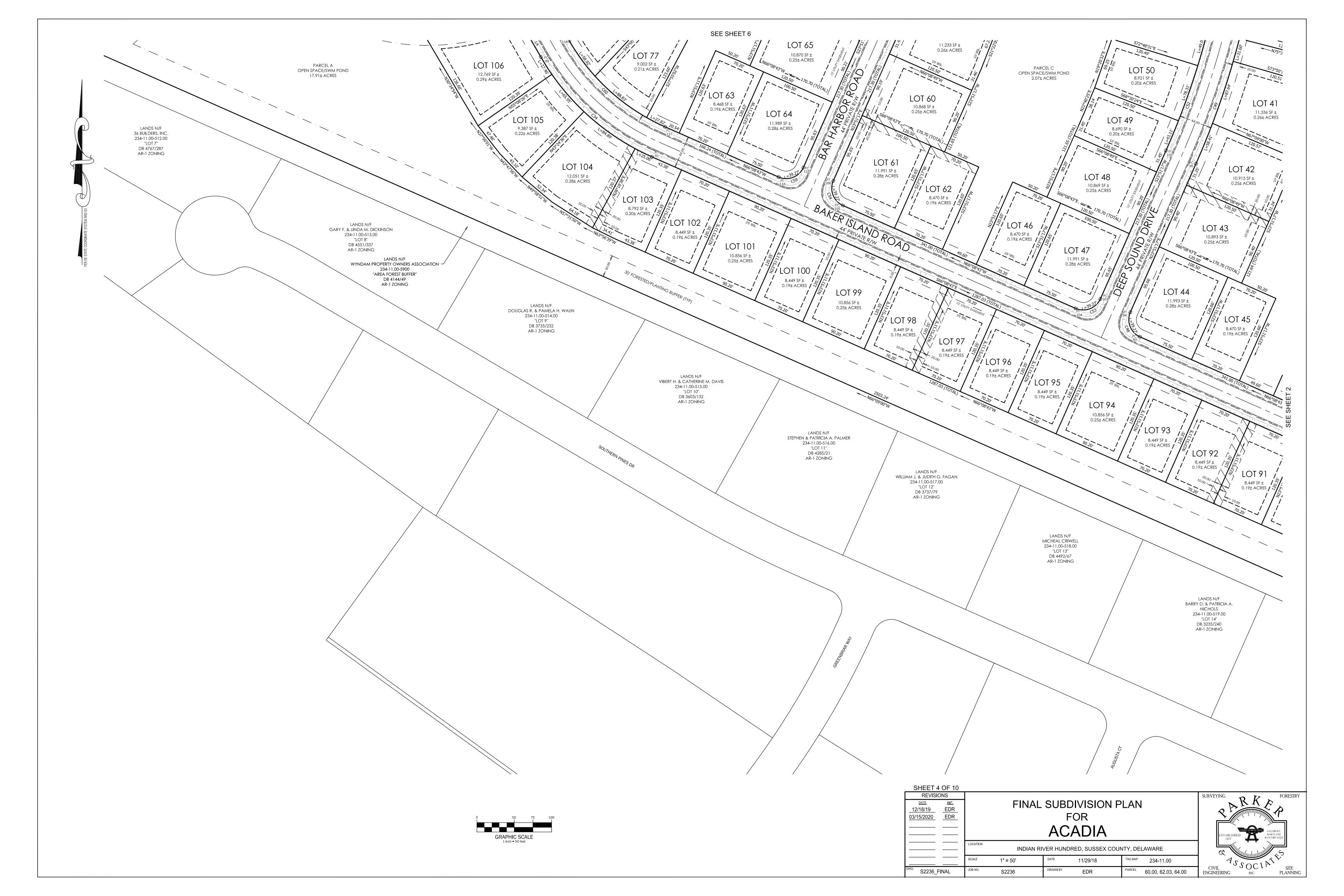
Revised Final Site Plan

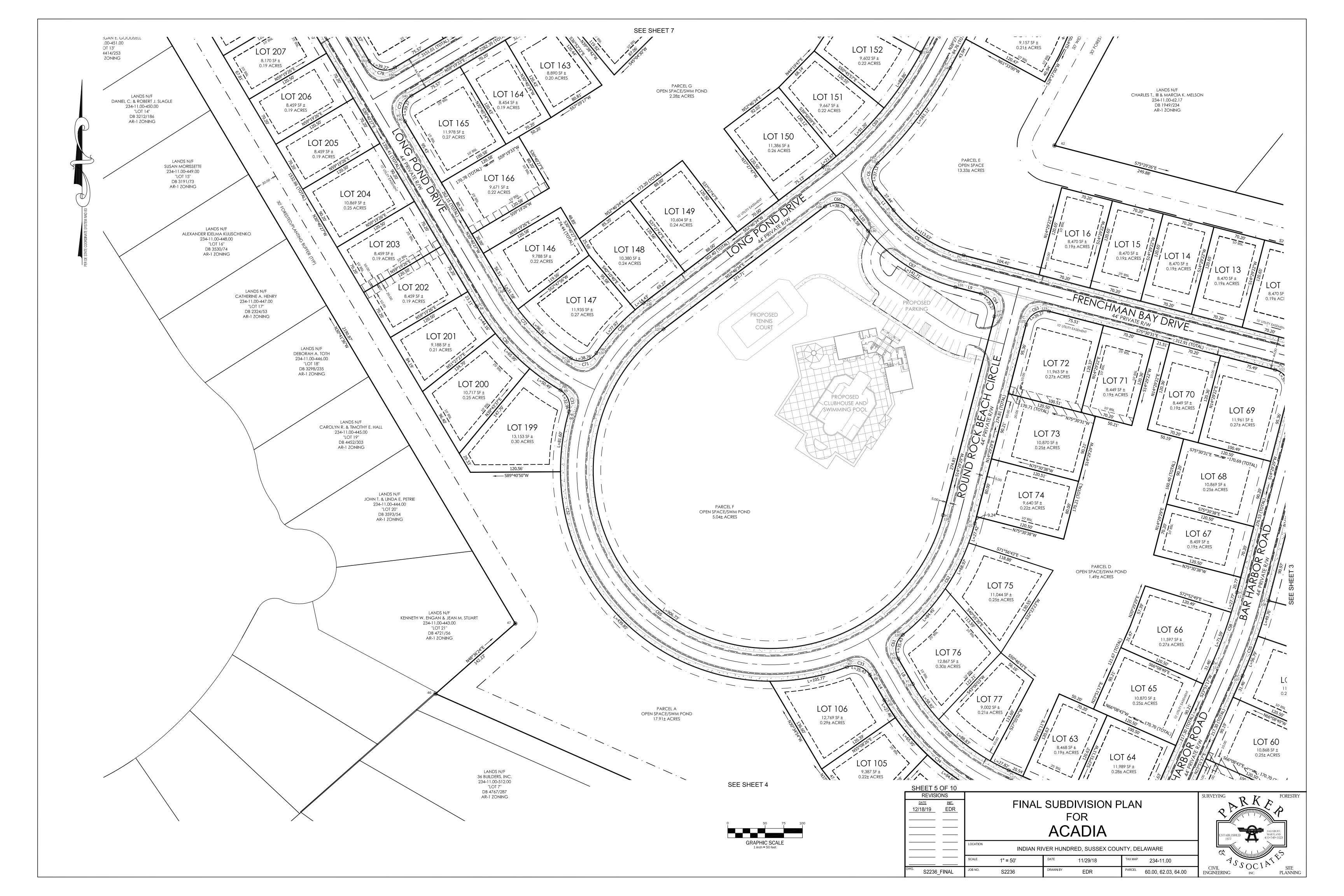
This is a Revised Final Site Plan for the construction of a 4,675 square foot storage building to be located at 35613 Williamsville Rd. The site is an existing boat repair and storage yard that possesses a Conditional Use No. 1106, which was approved by County Council on May 23, 1995. No new parking is proposed. The Revised Final Site Plan complies with the Sussex County Zoning Code. Tax Parcel: 533-19.00-287.02. Zoning: AR-1 (Agricultural Residential Zoning District). Staff are awaiting agency approvals.

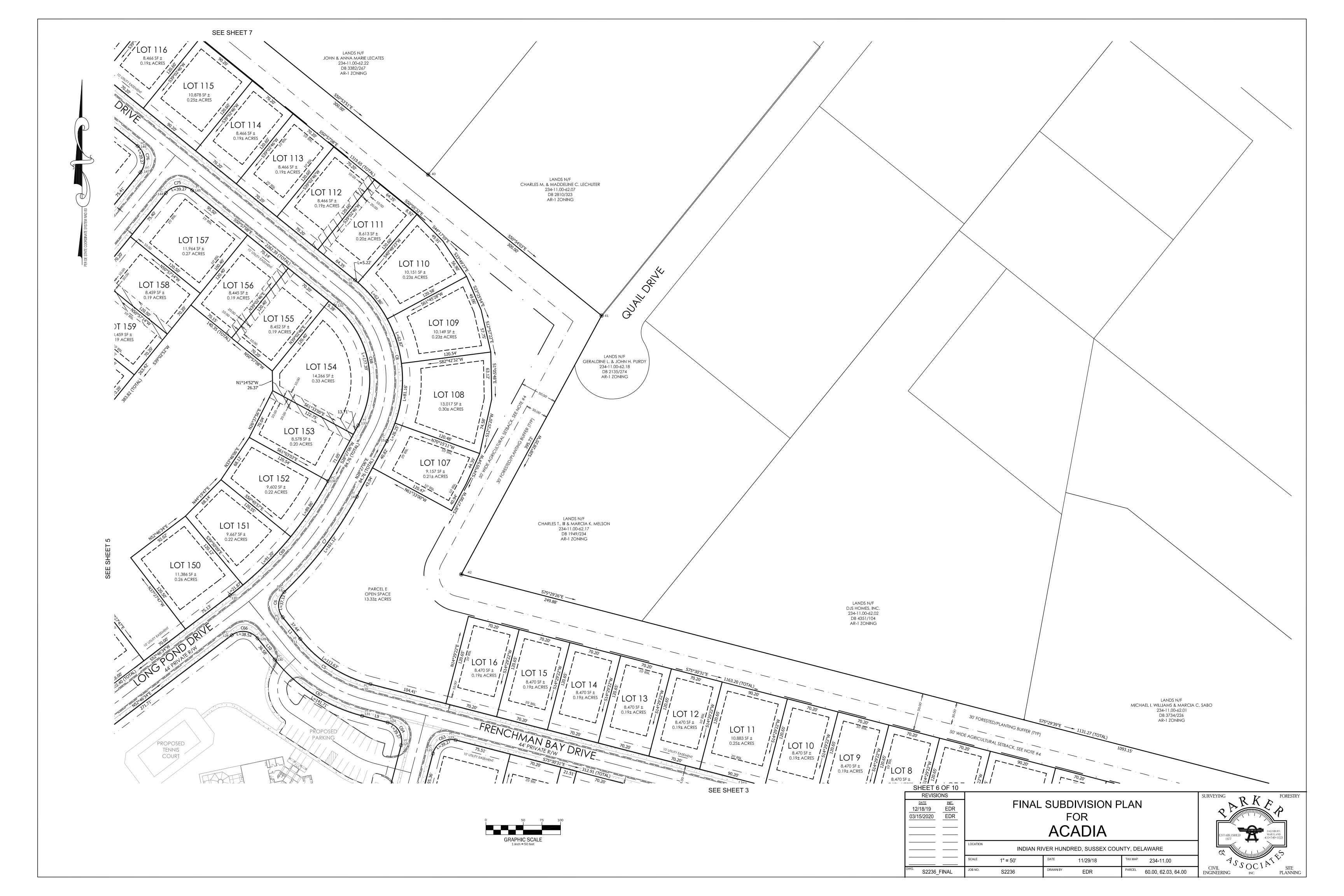


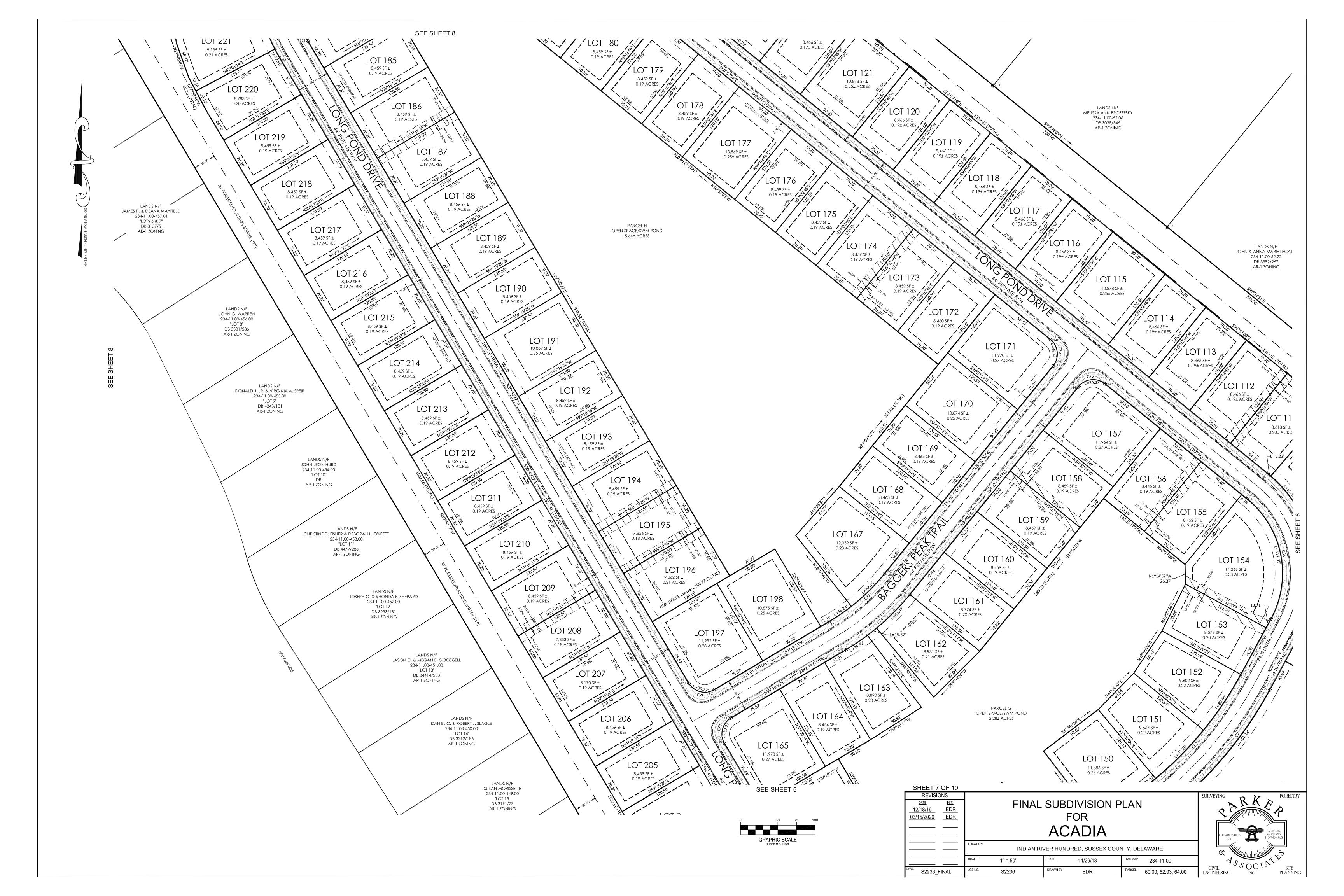


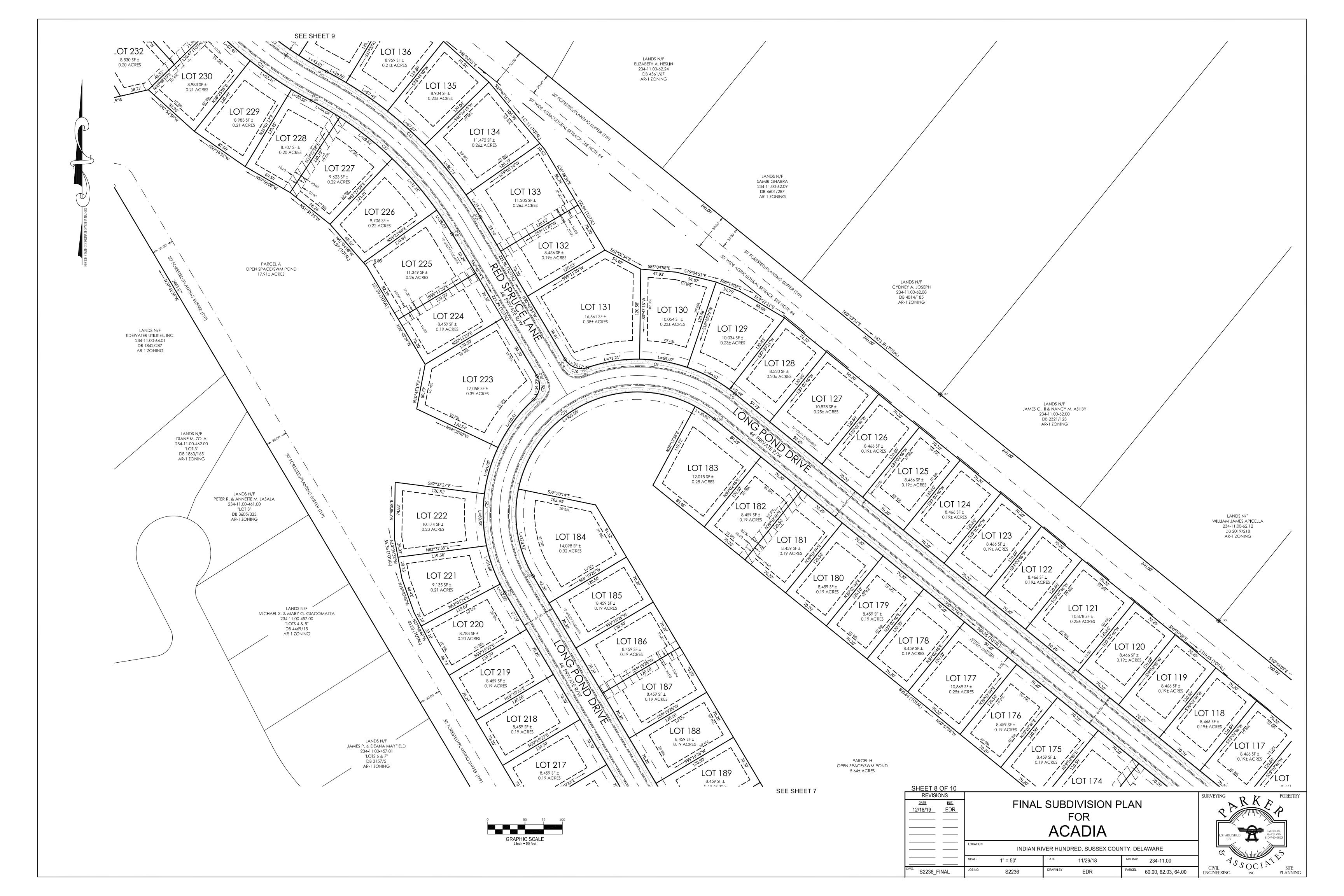


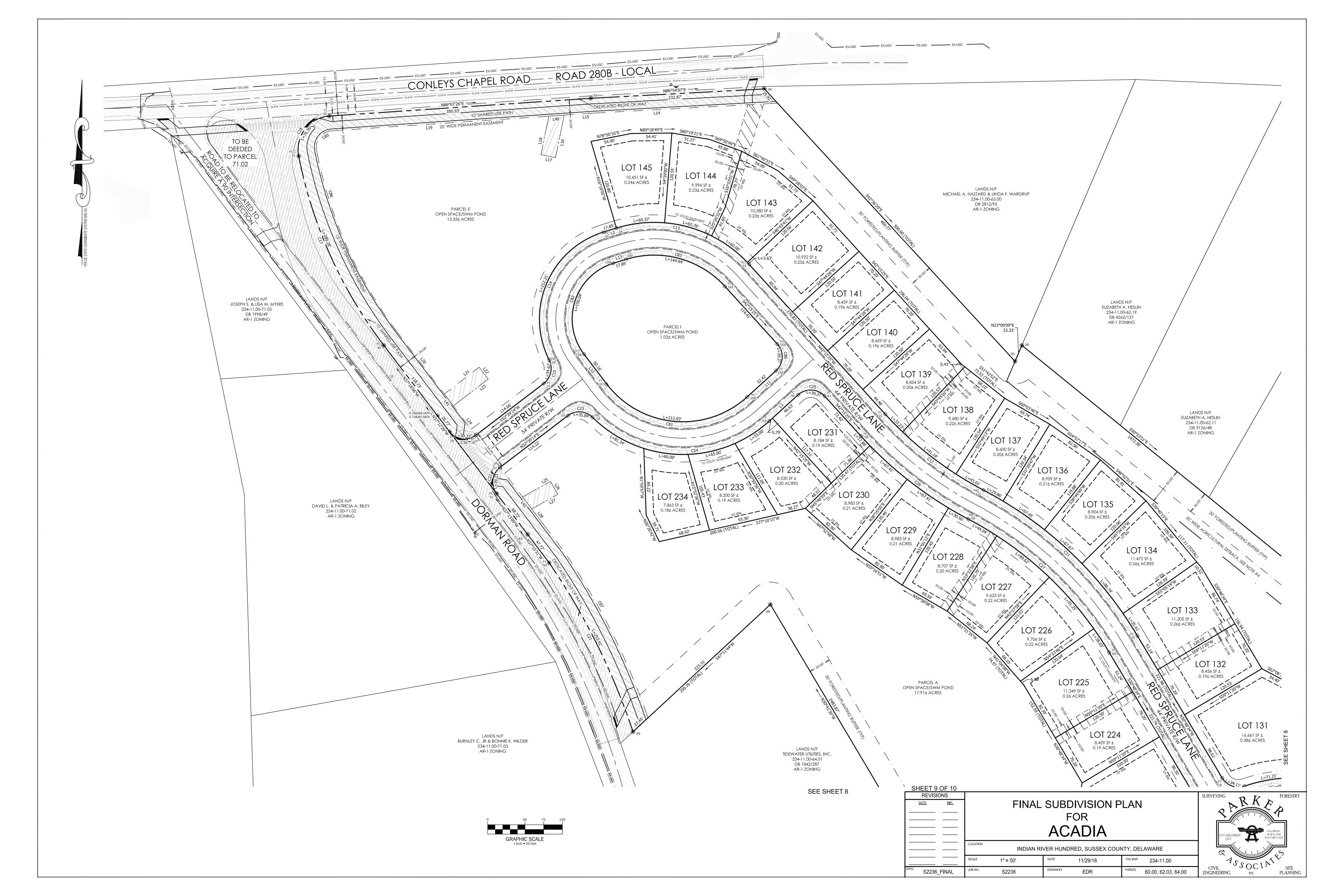










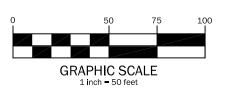




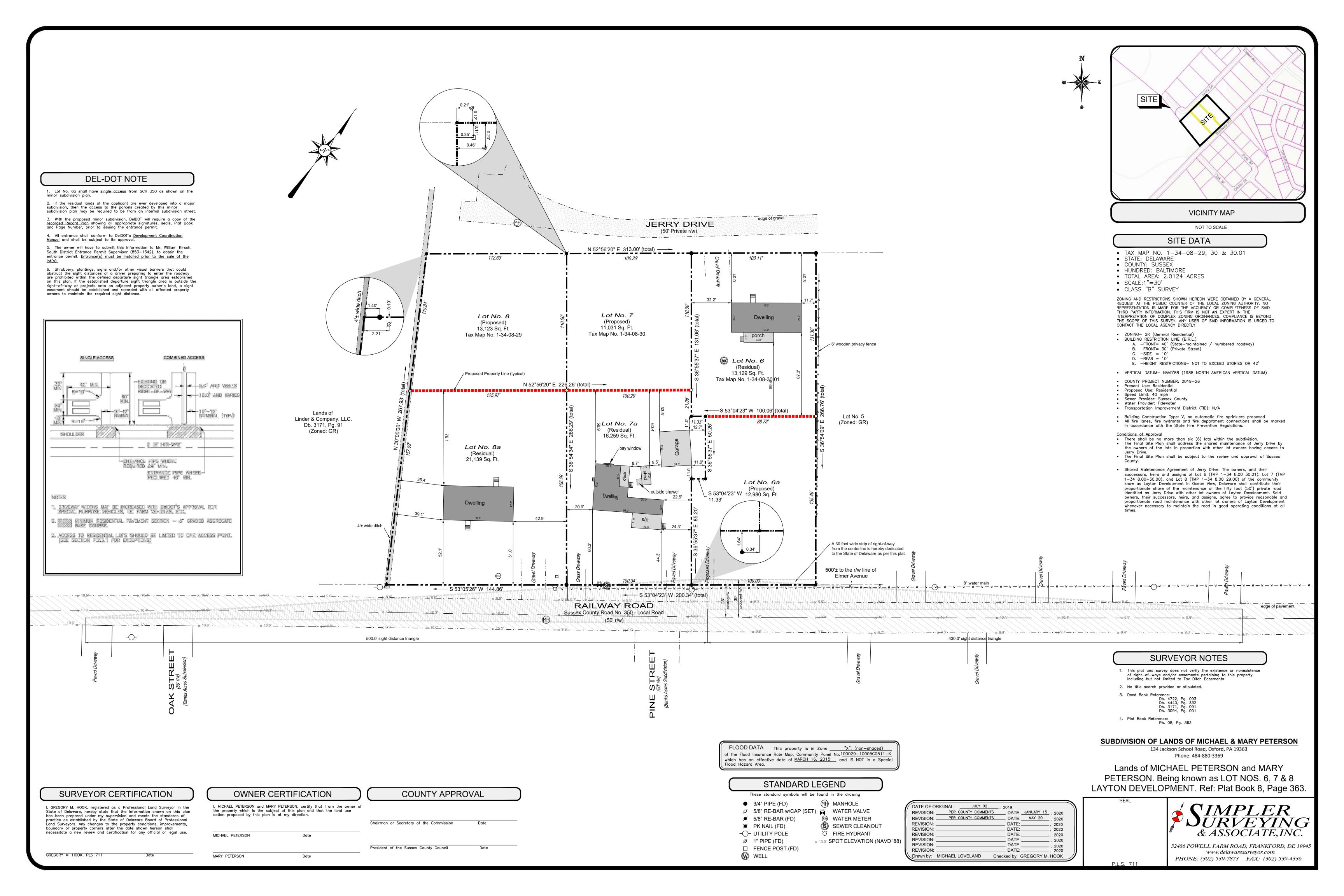
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	Line Table)		Line Table)	Line Table			
Line #	Direction	Length	Line #	Direction	Length	Line #	Direction	Length	
L1	N38°56'02"W	37.44	L20	N37°18'06"W	101.11	L39	N0°07'07"W	91.50	
L2	S72°51'55"W	17.85	L21	S52°21'56"W	58.78	L40	S86°07'26"W	20.73	
L3	N47°44'35"E	52.42	L22	N37°38'04"W	20.00	L41	N37°17'34"W	20.00	
L4	S29°57'39"E	39.00	L23	S52°21'56"W	58.90	L42	N37°13'40"W	20.20	
L5	N22°20'57"E	63.20	L24	N37°13'40"W	153.22	L43	S69°06'09"E	14.76	
L6	S22°20'57"W	63.20	L25	S60°49'38"W	42.76	L44	N17°26'18"E	30.56	
L7	N58°47'42"E	30.92	L26	N29°10'22"W	20.00	L45	N17°26'18"E	46.19	
L8	N29°57'39"W	39.00	L27	S60°49'38"W	39.93	L46	S69°06'09"E	2.67	
L9	S75°30'31"E	35.30	L28	N37°13'40"W	23.73	L47	S27°46'16"E	57.06	
L10	S38°56'02"E	36.58	L29	S69°06'09"E	44.48	L48	N31°11'01"W	381.26	
L11	S47°44'35"W	62.42	L30	S27°46'16"E	168.27	L49	N58°44'47"E	16.73	
L12	N37°20'46"W	50.16	L31	N58°41'10"E	22.79	L50	N58°44'47"E	17.80	
L13	N72°51'55"E	17.85	L32	S31°18'50"E	20.00	L51	N0°07'07"W	40.09	
L14	N86°54'07"E	249.26	L33	N58°41'10"E	23.04	L52	S27°46'16"E	87.61	
L15	N86°07'26"E	37.04	L34	N31°11'01"W	269.13	L53	N62°15'07"E	29.85	
L16	N11°22'10"E	58.13	L35	N58°47'42"E	16.66	L54	N62°15'07"E	28.21	
L17	N78°37'50"W	20.00	L36	N31°12'18"W	20.00	L55	N32°28'20"W	26.14	
L18	N11°22'10"E	52.68	L37	N58°47'42"E	16.66	L56	N32°28'20"W	20.07	
L19	N86°07'26"E	291.42	L38	N31°11'01"W	100.43	L57	S32°28'20"E	513.20	

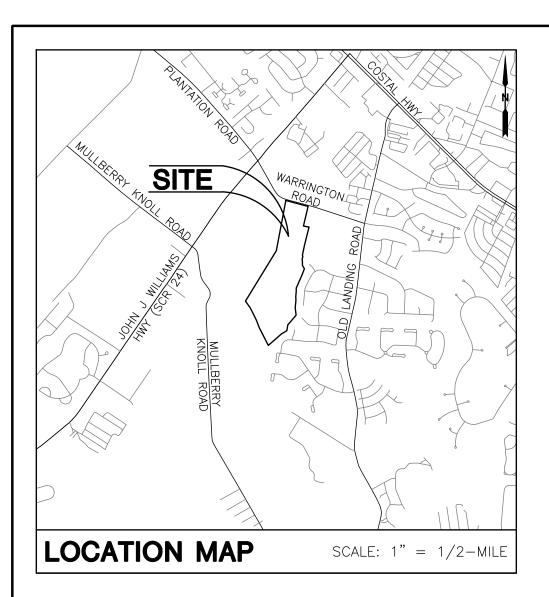
		Curve Table Curve Table								Cur	ve Table						
CURVE	LENGTH	RADIUS	CHORD	TANGENT	DELTA	CURVE	LENGTH	RADIUS	CHORD	TANGENT	DELTA	CURVE	LENGTH	RADIUS	CHORD	TANGENT	DELTA
C1	48.04	30.16	43.12	30.83	91°16'00"	C22	39.21	25.00	35.32	24.94	89°52'20"	C42	39.34	25.00	35.40	25.07	90°09'10"
C2	84.56	104.16	82.26	44.77	46°30'50"	C23	35.84	25.00	32.85	21.79	82°08'50"	C43	102.14	125.82	99.36	54.07	46°30'50"
C3	38.91	25.00	35.10	24.65	89°11'00"	C24	261.34	172.00	236.92	163.38	87°03'30"	C44	62.20	40.16	56.16	39.28	88°44'00"
C4	190.32	121.16	171.35	121.16	90°00'00"	C25	39.27	25.00	35.36	25.00	90°00'00"	C45	122.52	78.00	110.31	78.00	90°00'00"
C5	114.16	178.84	112.23	59.10	36°34'30"	C26	182.85	522.00	181.91	92.37	20°04'10"	C46	241.54	1478.00	241.27	121.04	9°21'50"
C6	37.12	25.00	33.80	22.94	85°04'20"	C27	262.94	478.00	259.64	134.89	31°31'00"	C47	39.27	25.00	35.36	25.00	90°00'00"
C7	161.12	522.00	160.48	81.21	17°41'10"	C28	34.23	25.00	31.62	20.40	78°26'30"	C48	39.27	25.00	35.36	25.00	90°00'00"
C8	238.37	172.00	219.75	142.81	79°24'10"	C29	282.91	207.00	261.40	168.55	78°18'20"	C49	177.64	1087.00	177.44	89.02	9°21'50"
C9	216.36	206.16	206.56	119.34	60°07'50"	C30	160.59	322.00	158.93	82.00	28°34'30"	C50	39.27	25.00	35.36	25.00	90°00'00"
C10	34.11	25.00	31.53	20.31	78°10'50"	C31	32.96	25.00	30.62	19.37	75°31'50"	C51	39.27	25.00	35.36	25.00	90°00'00"
C11	287.14	522.00	283.53	147.30	31°31'00"	C32	627.22	282.00	505.70	571.03	127°26'10"	C52	170.45	1043.00	170.26	85.42	9°21'50"
C12	167.43	478.00	166.58	84.58	20°04'10"	C33	35.43	25.00	32.54	21.43	81°11'40"	C53	39.27	25.00	35.36	25.00	90°00'00"
C13	194.76	172.00	184.52	109.32	64°52'40"	C34	203.35	322.00	199.99	105.20	36°11'00"	C54	39.27	25.00	35.36	25.00	90°00'00"
C14	212.21	122.00	186.45	144.52	99°39'30"	C35	434.40	272.00	389.69	279.24	91°30'20"	C55	106.55	652.00	106.43	53.39	9°21'50"
C15	34.67	25.00	31.95	20.77	79°26'50"	C36	22.51	25.00	21.76	12.08	51°35'30"	C56	39.27	25.00	35.36	25.00	90°00'00"
C16	39.33	25.00	35.40	25.06	90°08'30"	C37	250.35	50.65	62.94	40.16	283°11'00"	C57	39.27	25.00	35.36	25.00	90°00'00"
C17	280.28	613.00	277.84	142.63	26°11'50"	C38	22.51	25.00	21.76	12.08	51°35'30"	C58	99.36	608.00	99.25	49.79	9°21'50"
C18	76.36	45.00	67.52	51.07	97°13'40"	C39	364.13	228.00	326.65	234.07	91°30'20"	C59	39.27	25.00	35.36	25.00	90°00'00"
C20	342.03	862.99	339.80	173.29	22°42'30"	C40	39.27	25.00	35.36	25.00	90°00'00"	C60	175.57	278.00	172.66	90.82	36°11'00"
C21	253.41	909.86	252.60	127.53	15°57'30"	C41	231.05	1522.00	230.83	115.75	8°41'50"	C61	35.43	25.00	32.54	21.43	81°11'40"
			ve Table				<u> </u>		rve Table	T	<u> </u>	1					
CURVE	LENGTH	RADIUS	CHORD	TANGENT	DELTA	CURVE	LENGTH	RADIUS	CHORD	TANGENT	DELTA	1					
C62	180.84	282.00	177.75	93.65	36°44'30"	C82	150.04	78.00	127.95	111.83	110°12'40"	-					
C63	39.27	25.00	35.36	25.00	90°00'00"	C83	144.94	128.00	137.32	81.35	64°52'40"	4					
C64	39.27	25.00	35.36	25.00	90°00'00"	C85	37.23	22.00	32.94	24.84	96°56'50"	4					
C65	906.73	238.00	449.68	685.66	218°17'00"	C86	271.72	588.00	269.31	138.33	26°28'40"	4					
C66	38.52	25.00	34.82	24.26	88°17'20"	C87	249.53	934.86	248.79	125.51	15°17'30"	4					
C67	141.71	222.00	139.32	73.37	36°34'30"	C90	20.03	897.99	20.03	10.02	1°16'40"	4					
C68	177.39	128.00	163.53	106.28	79°24'10"	C91	371.30	897.99	368.66	188.34	23°41'30"	_					
C69	202.93	478.00	201.41	103.02	24°19'30"	4											
C70	92.36	282.00	91.95	46.60	18°45'50"	-											
C71	38.76	25.00	34.99	24.50	88°50'00"	-											
C72	128.49	278.00	127.35	65.41	26°28'50"	-											
C73	39.27	25.00	35.36	25.00	90°00'00"	-											
C74	113.96	322.00	113.37	57.58	20°16'40"	-											
C75	39.27	25.00	35.36	25.00	90°00'00"	1											
C76 C77	39.27 98.39	25.00	35.36	25.00 49.71	20°16'40"	1											
C77		278.00	97.88	49.71	90°00'00"	-											
C/8	39.27	25.00 163.00	35.36 320.91	25.00 911.48	159°43'20"	1											
C70		102.00	JZU.JI	211.40	132.43.70	1											
C79	454.39 39.27	25 00	35 36	25 00	ייחחיחחיחסיחם	1											
C79 C80 C81	39.27 212.03	25.00 128.00	35.36 188.61	25.00 139.47	90°00'00" 94°54'40"												

	Point Tabl	е		Point Tabl	е		Point Tabl	е
Point #	Northing	Easting	Point #	Northing	Easting	Point #	Northing	Easting
9	248056.1740	721839.0538	21	250169.6147	719029.0568	42	248520.6849	720733.5318
65	248192.8017	720071.8576	22	250271.5010	718897.2704	43	248174.7206	722070.6481
1	247856.8047	722190.6134	23	250471.9490	718715.1515	44	247444.6170	722452.9242
2	247759.3072	722252,6595	24	250520,6520	718537,1737	45	246780.8977	722179.3267
3	247717.3182	722242.8410	25	250515.3918	718520.1118	46	247786.5334	719904.6160
4	247689.1143	722196.2801	26	250344.5195	718446.7992	47	247880.5799	720011.3159
5	247677.7402	722114.8142	27	250312.5847	718439.9775	48	250016.4891	718743.4428
6	247736,7399	721899,2766	28	250243,1096	718348.8510	49	249846,1001	718559.4680
7								
	247767.1087	721881.6724	29	250247.8597	718313.7793	50	250072.3603	718447.1697
8	247909.9109	721918.5806	30	250363.6349	718225.6337	51	250165.0634	718376.7143
10	248373.6536	720611.8442	31	250617.0546	718111.7261	52	250200.0626	718381.4545
11	248434.1311	720517.9248	32	250670.6187	718152.8415	53	250269.3833	718472.2346
12	248463.2535	720494.3975	33	250694.3420	718502.9724	54	250266.7916	718505.4641
13	248496.9890	720496.5208	34	250706.9275	718735.5022	55	250261.9572	718741.8967
14	248624.6594	720593.7597	35	250342.0934	719071.0802	56	250297.2043	718780.6913
15	248699.1788	720634.1392	36	250363.5445	719080.2531	57	250295.5124	718816.0061
16	248914.7014	720591.2682	37	249737.0618	719851.0737	58	250241.9129	718864.7044
17	249738.2446	719576.0117	38	249434.3218	720223.5633	59	250130.6479	719008.6218
18	249773.2174	719378.2470	39	249245.1228	720456.3803	60	249952.1502	719197.1663
19	249784.0521	719348.6397	40	249055.8934	720689.1724	61	249761.6996	719310.7397
20	249974.6862	719234.9569	41	248867.1310	720921.4522	62	249730.4240	719306.1148
	Point Tabl		-	Point Tabl			Point Tabl	
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Point #	Northing	Easting	Point #	Northing	Easting	Point #	Northing	Easting
63	249471.8820	719267.5711	85	247652.4539	722274.1096	106	247611.9220	720897.4865
64	248305.2583	719959.5511	86	247637.6909	722323.7887	107	247810.6620	720985.3683
66	248164.3079	720083.0724	87	248015.9572	721819.9800	108	247911.1912	721020.3233
67	247822.2529	720455.5330	88	247920.9205	721875.9802	109	248178.9274	721089.5215
68	247811.4228	720486.2143	89	247704.4981	721820.0445	110	248196.8762	721119.9819
69	247777.6353	720505.6907	90	247476.6112	721740.8060	111	248220.3982	721028.9725
70	247643.9520	720654.4377	91	247277.8712	721652.9241	112	248189.9377	721046.9213
71	247123.4519	721831.5202	92	247265.1174	721619.9493	113	247922.2015	720977.7231
72	247268.7878	722193.0908	93	247403.0246	721308.0798	114	247828.4565	720945.1271
73	247327.2391	722217.1220	94	247435.9994	721295.3259	115	247629.7165	720857.2452
74	247341.7573	722233.3285	95	247634.7394	721383.2077	116	247616.9626	720824.2704
75	247365.6892	722175.1190	96	247802.3395	721303.2077	117	247684.1932	720672.2322
76		722175.1190	97	248070.0757	721510.6821	118	247799.6093	
	247343.9701							720543.8108
77	247163.6932	721849.3147	98	248088.0245	721541.1426	119	247833.3967	720524.3344
78	247227.1019	721705.9192	99	248111.5465	721450.1332	120	247865.3744	720530.3397
79	247260.0768	721693.1654	100	248081.0860	721468.0820	121	248014.6831	720626.7918
80	247458.8167	721781.0472	101	247813.3498	721398.8838	122	248280.7497	720695.5585
81	247673.4224	721857.3123	102	247652.5338	721342.9665	123	248298.6985	720726.0190
82	247693.9746	721888.8525	103	247453.7939	721255.0847	124	248322.2205	720635.0095
83	247622.6939	722149.2548	104	247441.0400	721222.1099	125	248291.7600	720652.9583
84	247636.4334	722247.6619	105	247578.9472	720910.2403	126	248025.6934	720584.1917
	Point Tabl	e — ———		Point Tabl	e — ——			
Point #	Northing	Easting	Point #	Northing	Easting	İ		
127	248274.7629	720209.7896	148	248780.4001	720077.7212			
128	248439.1274	720209.7890	149	248715.7062	720077.7212			
			-			l		
129	248434.9311	720460.7138	150	248625.2718	719849.9607			
130	248406.4804	720483.6985	151	248634.0200	719815.7048			
131	248331.0534	720600.8339	152	249494.3288	719305.4147			
132	248880.5301	720563.5496	153	249704.0733	719548.2931			
133	248720.1412	720595.4535	154	250365.0851	718752.7951			
134	248645.6219	720555.0741	155	250329.7703	718751.1031			
135	248492.7296	720423.9653	156	250294.5231	718712.3086			
136	248309.7991	720183.1726	157	250311.6120	718524.4759			
137	248242.9865	720120.0053	158	250351.4897	718494.0464			
138	248235.9666	720085.7233	159	250473.3448	718533.0750			
139	248327.7051	719997.3947	160	250478.6050	718550.1369			
140	248553.1723	719863.6594	161	250442.3608	718682.5855	1		
141	248587.4282	719872.4076	163	250110.3399	718418.2805			
142	248678.5851	720026.0909		I		J		
	248752.6815	720111.8925						
143	~ 10/JZ10013		ł					
143	240021 2402	720222 0270						
144	249031.3483	720337.9379						
144 145	249035.0145	720373.1026						
144								



SHEET 10 OF 10 REVISIONS	1						SURVEYING	- Tz	FORESTRY
DATE INIT. 12/18/19 EDR 03/15/2020 EDR 05/15/2020 EDR		FINA	L SUBE F AC		ESTABLISH 1977	ED MAI	ISBURY, 1YLAND 149-1023		
	LOCATION	INDIAN			ہے ج				
	SCALE	1" = 50'	DATE	11/29/18	TAX MAP	234-11.00] 4	25001	
DWG. S2236_FINAL	JOB NO.	S2236	DRAWN BY	EDR	PARCEL	60.00, 62.03, 64.00	CIVIL ENGINEERING	INC.	SITE PLANNING



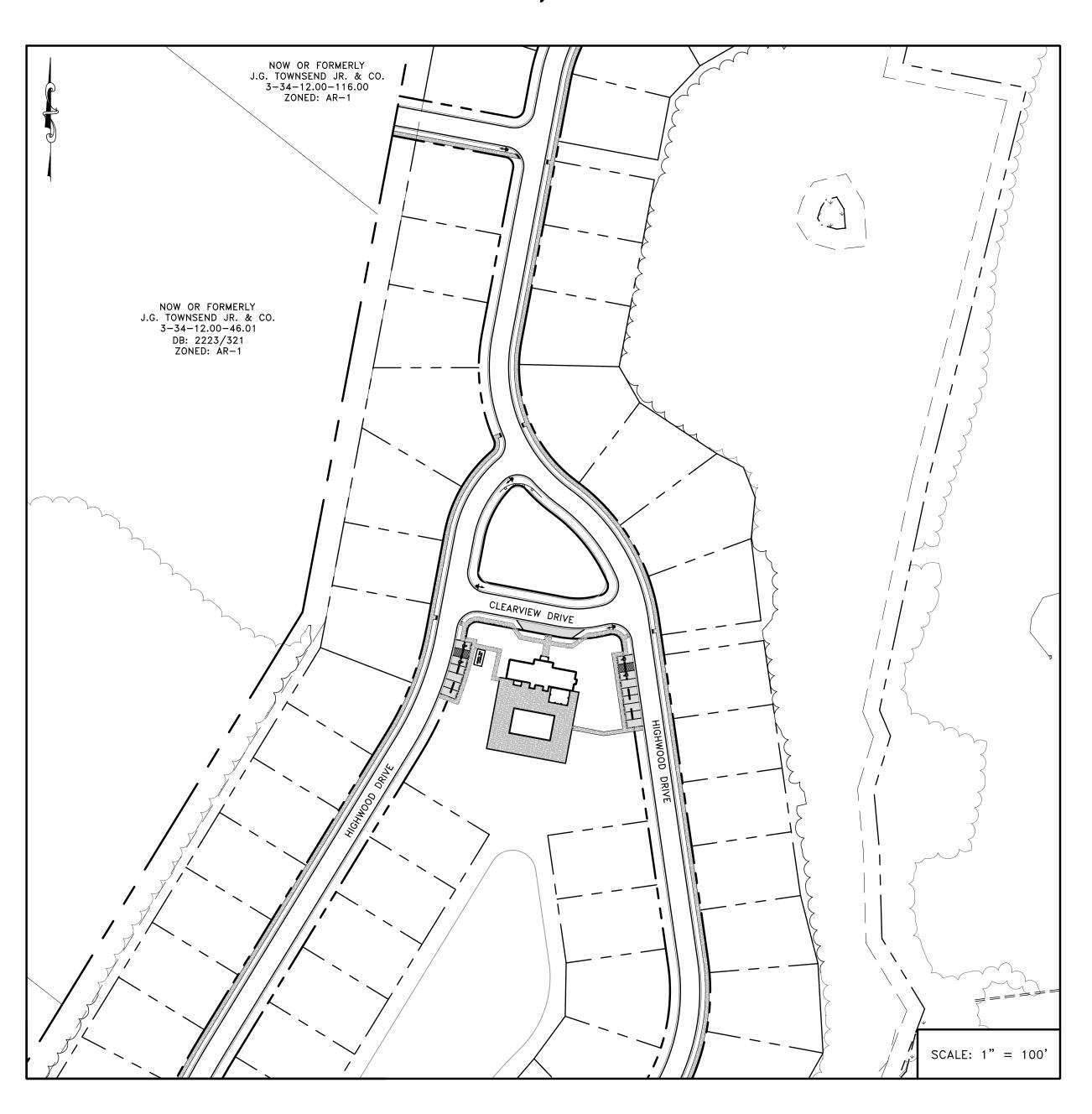


WELLESLEY

LEWES & REHOBOTH HUNDRED, SUSSEX COUNTY, DELAWARE

DBF # 2261J008 AMENITY CONSTRUCTION DOCUMENTS

SUSSEX COUNTY REFERENCE #: 2018-7
APRIL, 2020



SHEET INDEX	
AMENITY PLAN	
AMENITY - TITLE SHEET	C-600
AMENITY - SITE PLAN	C-601
AMENITY - GRADING PLAN	C-602
AMENITY - SSM DETAILS	C-603
AMENITY - DETAILS/PROFILES	C-604

LEGEND

PROPERTY LINE	
EASEMENT	++-
EXISTING CONTOUR ELEVATION AND LABEL	— — — 33— —
PROPOSED CONTOUR ELEVATION AND LABEL	33
	DI NUM (MH) NUM (P) NUM
CATCH BASIN, STORM PIPE, STORM MANHOLE, LABELS	
SANITARY SEWER IDENTIFICATION, MANHOLE, PIPE, FLOW ARROW, PIPE SIZE	
SANITARY SEWER LATERAL	
WATER MAIN, TEE W/ VALVES, PIPE SIZE	-
FIRE HYDRANT ASSEMBLY	<u>_</u> +
WATER LATERAL	o
SIGN	•
FENCE	<u> </u>
SWALE	××
PAVEMENT / FULL DEPTH TYPE I	
SIDEWALK	

DATA COLUMN

TAX MAP ID: 3-34-12.00-116.01

DATUM:
VERTICAL:
HORIZONTAL:
COORDINATES:
NAVD 88
NAD 83 (DE STATE PLANE)
(38.7153, -75.1404)

LAND USE
EXISTING:
PROPOSED:
AGRICULTURAL
RESIDENTIAL

ZONING:
AR-1 (AGRICULTURAL/RESIDENTIAL)

PROPOSED DEVELOPMENT:
1 AMENITY CENTER WITH CLUBHOUSE AND POOL
PARKING:
14 SPACES (INCLUDING 4 HANDICAP SPACES)

CLUSTER MINIMUM REQUIREMENTS

LOT AREA: 7,500 S.F. (0.17 AC)

LOT WIDTH: 60 FT.

FRONT SETBACK: 25 FT.

FRONT CORNER SETBACK: 15 FT.

SIDE SETBACK: 10 FT.

REAR SETBACK: 10 FT.

OPEN SPACE: 30%

<u>UTILITIES</u>

SEWER PROVIDER: PUBLIC (SUSSEX COUNTY)

WATER PROVIDER: PUBLIC (TIDEWATER UTILITIES, INC.)

WETLANDS — THIS PROPERTY IS IMPACTED BY WETLANDS. THIS PROJECT IS LOCATED INSIDE OF THE ENVIRONMENTALLY SENSITIVE DEVELOPMENT DISTRICT ZONE.

42 FT.

FLOODPLAIN — THE PROPERTY IS IMPACTED BY THE 100 YEAR FLOODPLAIN AS DETERMINED BY FEMA PANELS 10005C0332K & 10005C0334K DATED MARCH 16, 2015.

246 REHOBOTH AVE.
REHOBOTH BEACH, DE 19971
PHONE: 302-226-6631
CONTACT: NICK HAMMONDS

PROPERTY DEVELOPER:
WELLESLEY PARTNERS, LLC.
246 REHOBOTH AVE.
REHOBOTH BEACH, DE 19971
PHONE: 302-226-6631
CONTACT: NICK HAMMONDS

ENGINEER:
DAVIS, BOWEN, & FRIEDEL, INC.
RING LARDNER, P.E.
1 PARK AVENUE

MILFORD, DE 19963 PHONE: 302-424-1441 FAX: 302-424-0430

PROPERTY OWNER: WELLESLEY REHOBOTH, LP

GENERAL NOTES

- 1. THE DESIGNATED HOMEOWNERS ASSOCIATION ASSUMES RESPONSIBILITY FOR THE AMENITIES AT WELLESLEY.
- 2. REFER TO WELLESLEY CONSTRUCTION PLANS, SHEET C-002 FOR POTABLE WATER DISTRIBUTION GENERAL NOTES AND LEGEND.

FIRE PROTECTION NOTES

- 1. ALL FIRE LANES, HYDRANTS, EXITS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PREVENTION REGULATIONS (DSFPR, 705, CHAPTER 5).
- 2. WATER PROVIDER: TIDEWATER UTILITIES
- 3. PROPOSED BUILDING CONSTRUCTION: WOOD/CONCRETE BLOCK, TYPE V
- 4. INTENDED USE: CLUBHOUSE, POOL, AND POOL DECK
- 5. MAXIMUM HEIGHT OF BUILDING: 2 STORIES; 36 FEET
- 6. SITE MAY BE SERVED BY AN UNDERGROUND CLOSED PIPE NATURAL GAS OR PROPANE SYSTEM.
- 7. AUTOMATIC FIRE SPRINKLERS ARE NOT PROPOSED FOR THIS STRUCTURE.

OWNER'S CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION, AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING AT A DEPARTMENTAL SPONSORED OR APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT CONTROL BEFORE INITIATION OF THE PROJECT. I ACKNOWLEDGE THAT THE DEPARTMENT OR DELEGATED AGENCY HAS THE RIGHT TO CONDUCT ON—SITE INSPECTIONS.

WELLESLEY REHOBOTH, LP

246 REHOBOTH AVE
REHOBOTH BEACH, DE 19971
PHONE: 302-226-6631



DAVIS, BOWEN & FRIEDEL, INC.
ARCHITECTS, ENGINEERS & SURVEYORS

SALISBURY, MARYLAND (410) 543-9091 MILFORD, DELAWARE (302) 424-1441 EASTON, MARYLAND (410) 770-4744

ENGINEER'S STATEMENT

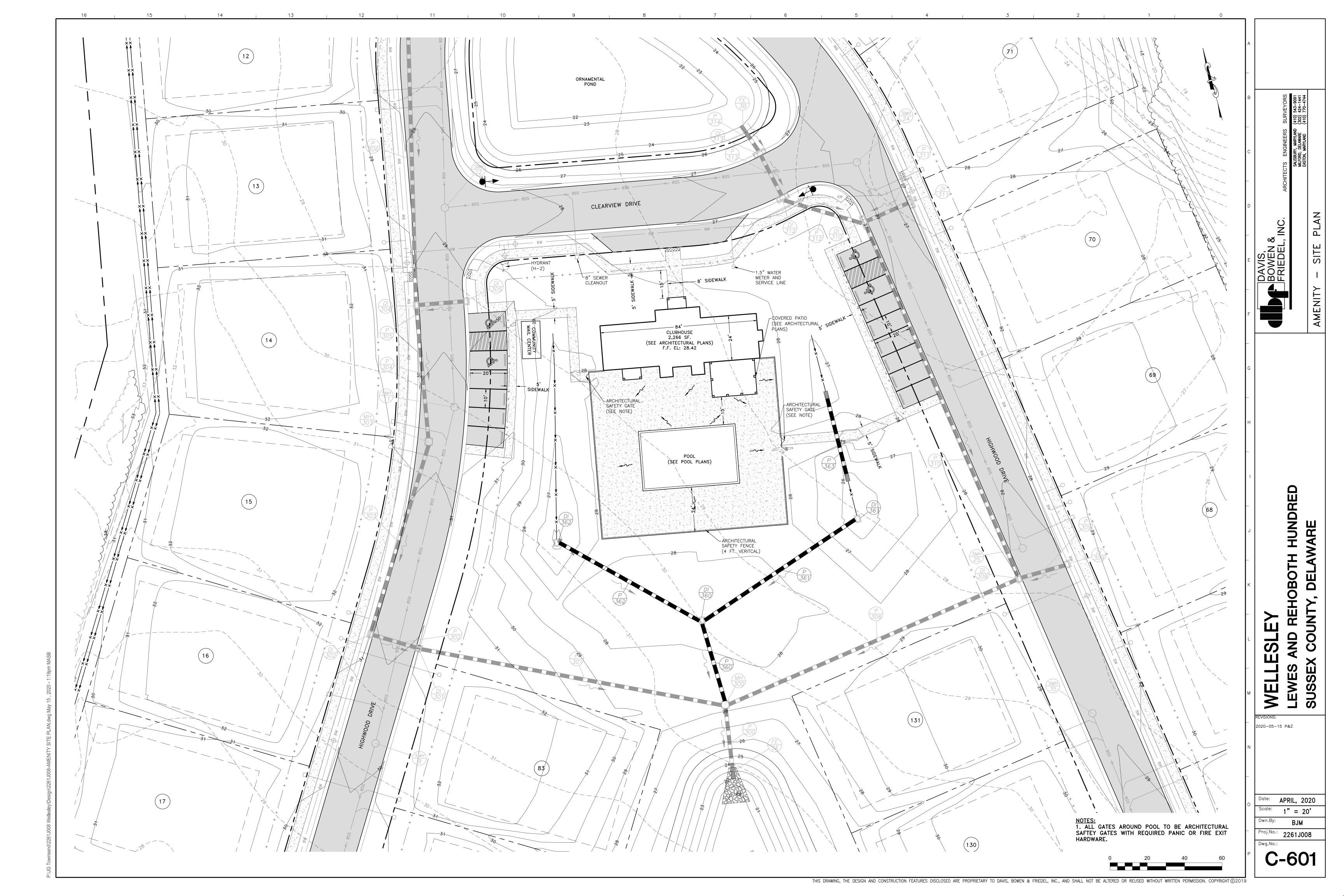
RING W. LARDNER, P.E.

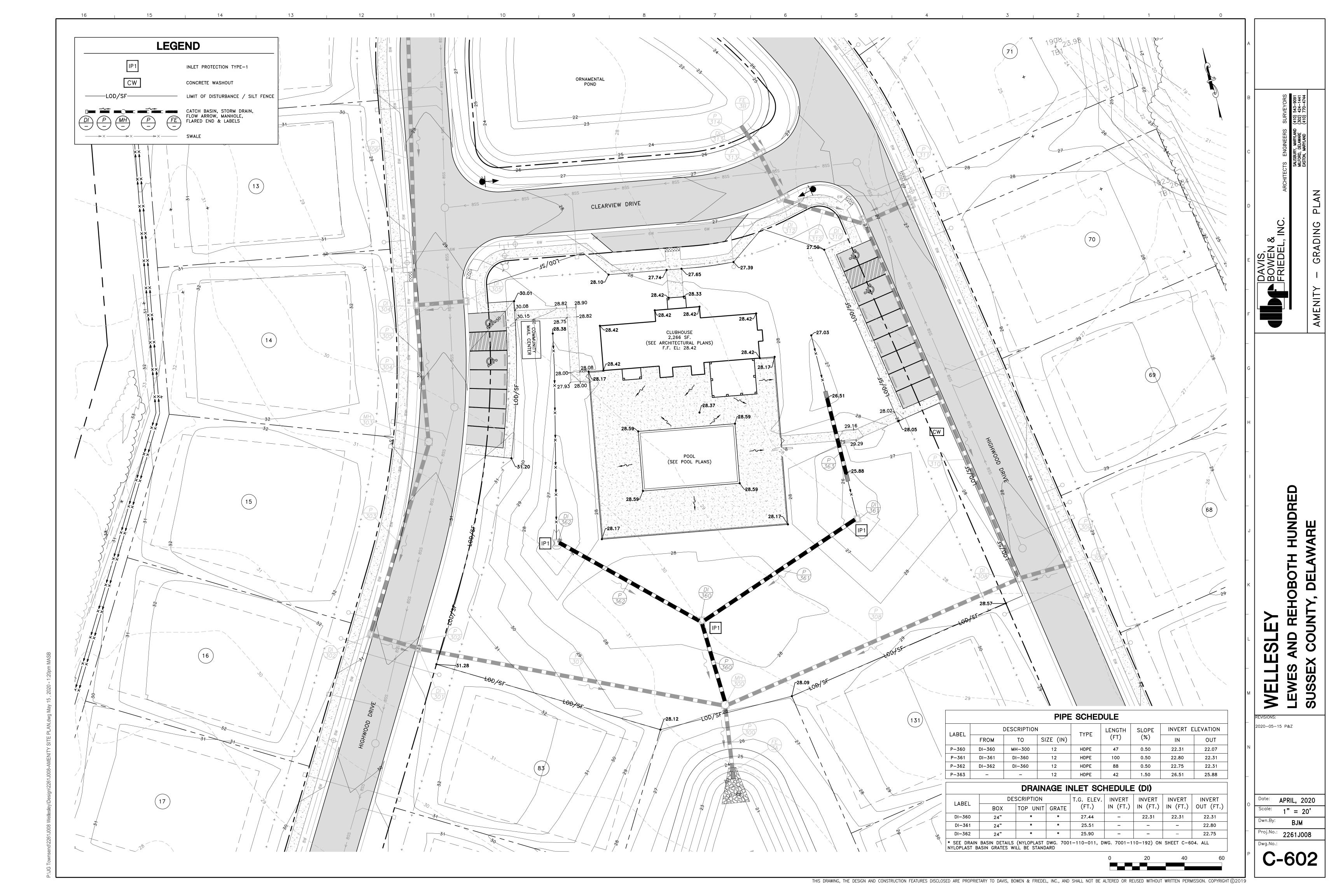
I, RING W. LARDNER, P.E., HEREBY STATE THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

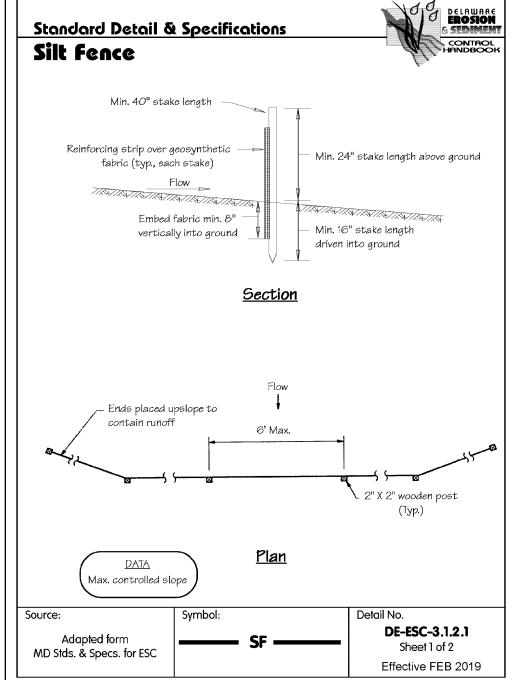
DAVIS, BOWEN & FRIEDEL, INC. DATE

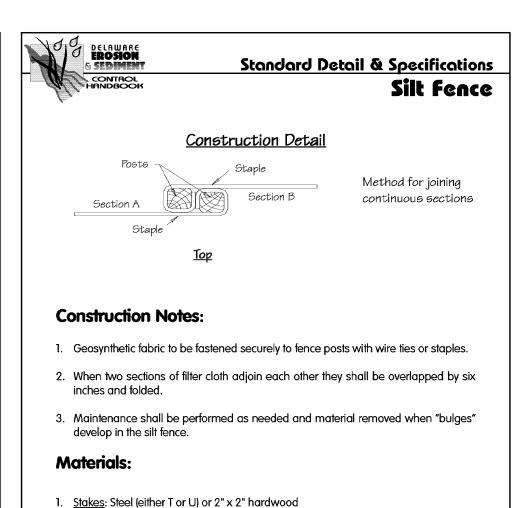
REVISIONS: 2020-05-15 P&Z

C-600









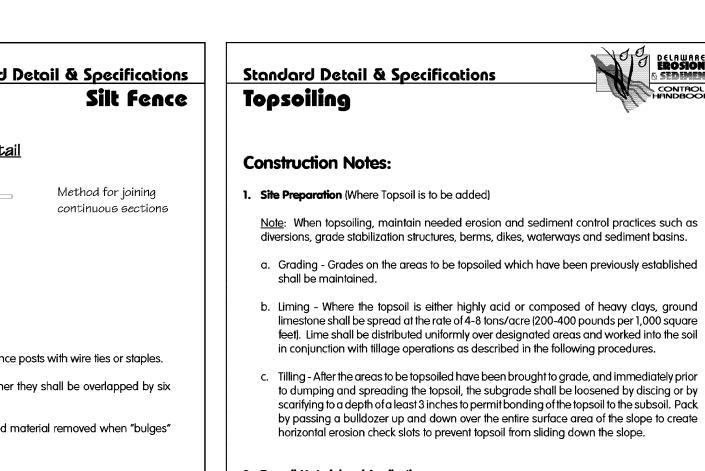
Geosynthetic Fabric: Type GD-I

Adapted from

MD Stds. & Specs. for ESC

3. Reinforcing strip: Wooden lath or plastic strip

Symbol



DE-ESC-3.1.2.1

Effective FEB 2019

Sheet 2 of 2

Effective FEB 2019

Sheet 2 of 2

Standard Detail & Specifications

Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins. a. Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained. b. Liming - Where the topsoil is either highly acid or composed of heavy clays, ground

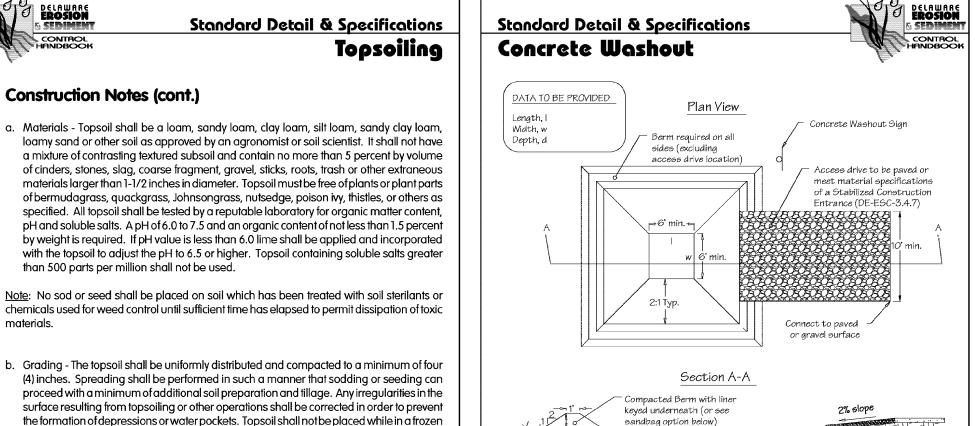
feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures. Tilling - After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of a least 3 inches to permit bonding of the topsoil to the subsoil. Pack

2. Topsoil Material and Application

USDA - NRCS

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Detail No.	Source:	Symbol:	Detail No.
DE-ESC-3.4.1			DE-ESC-3.4.1
Sheet 1 of 2	USDA - NRCS		Sheet 2 of 2
Effective FEB 2019			Effective FEB 2019



Source:

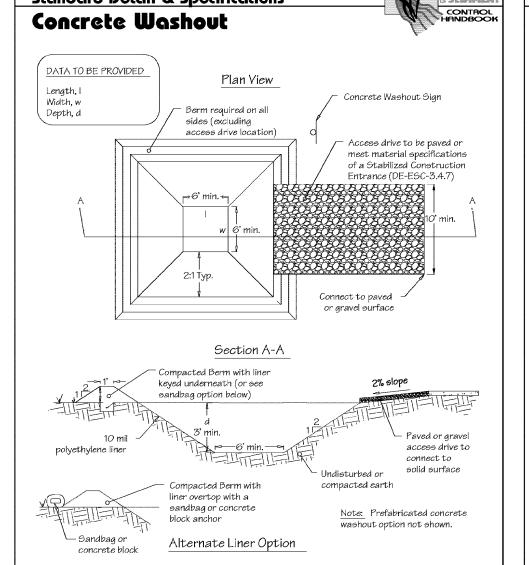
Adapted from

Colorado Urban Storm Drainage

Criteria Manual, Vol 3

Standard Detail & Specifications

Vegetative Stabilization



CW

connect to ed or solid surface d earth Prefabricated concrete out option not shown.	occorred
etail No.	Source:
DE-ESC-3.6.2 Sheet 1 of 2 Effective FEB 2019	Adap Colorado Urba Criteria M

Standard Detail & Specifications Concrete Washout

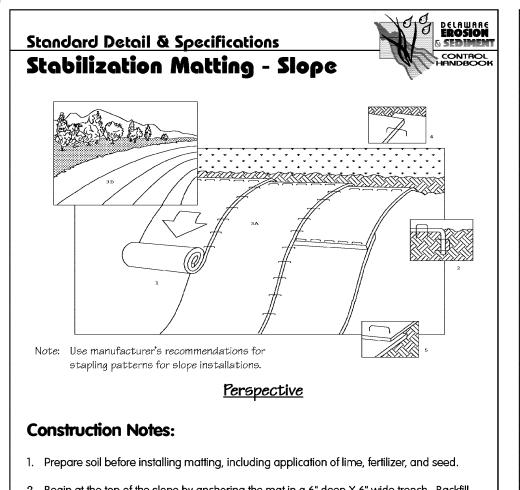
Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.

Construction Notes

high by 1 foot wide compacted fill berm.

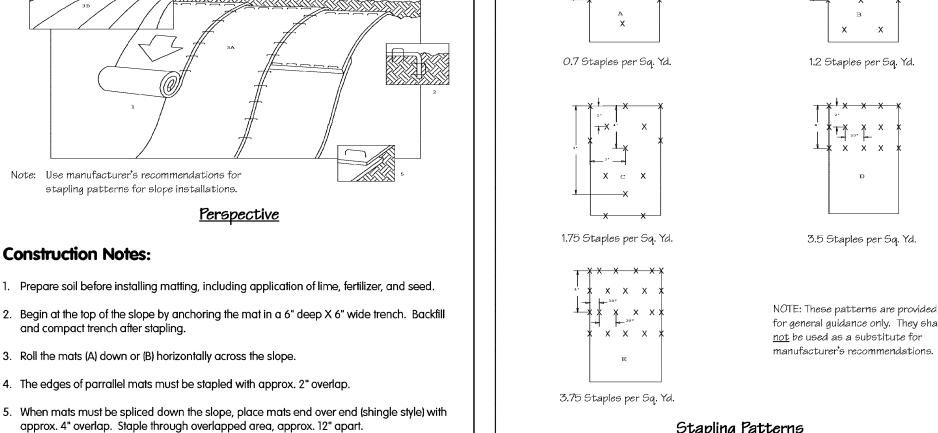
- Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental
- . Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot
- 4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overtop with sandbags or concrete blocks to hold in place.
- Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
- 6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
- Y. Apply a new liner before reusing the station for additional washouts after maintenance has

NUFCO:	Symbol:	Detail No.
ource: Adapted from orado Urban Storm Drainage Criteria Manual, Vol 3	·	DE-ESC-3.6.2 Sheet 2 of 2 Effective FEB 2019



Adapted from

North American Green, Inc.

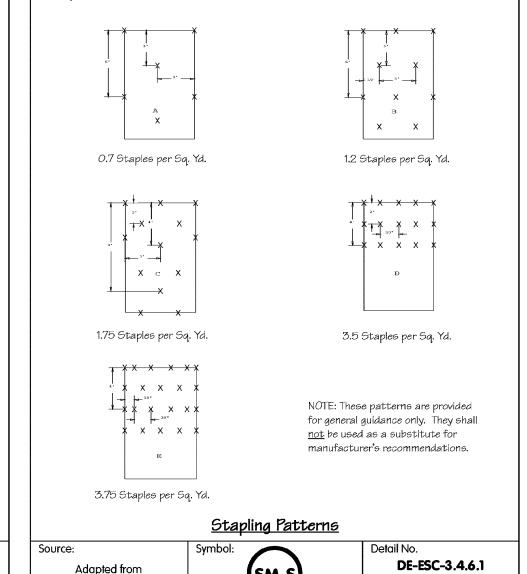


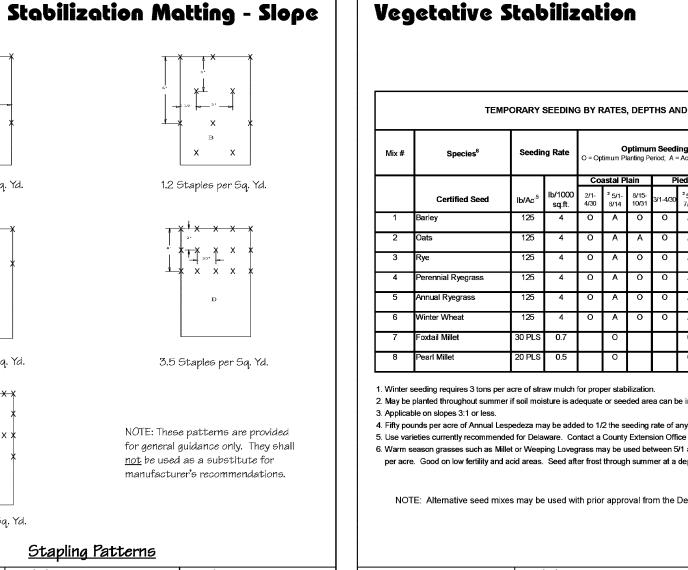
North American Green, Inc

DE-ESC-3.4.6.1

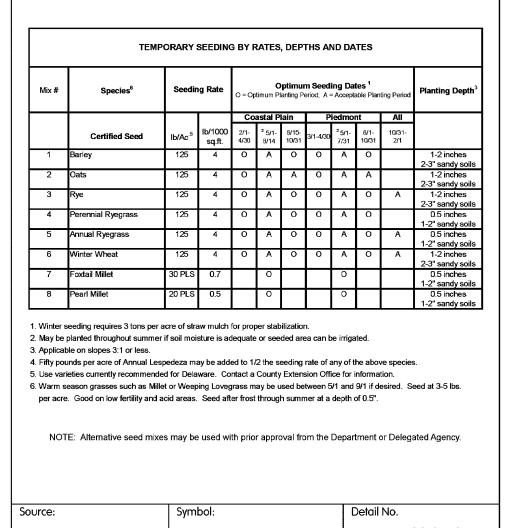
Sheet 1 of 2

Effective FEB 2019

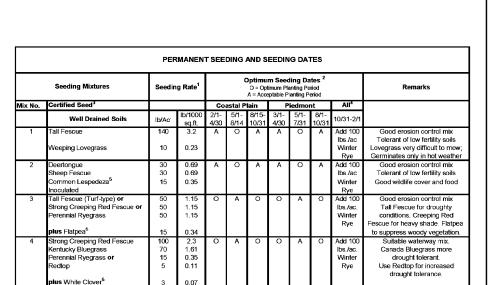




Standard Detail & Specifications



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elaware ESC Handbook		DE-ESC-3.4.3
		Sheet 1 of 4
		Effective FEB 2019



or muddy condition, when the subgrade is excessively wet, or in a condition that may

Note: Topsoil substitutes or amendments as approved by a qualified agronomist or soil

scientist, may be used in lieu of natural topsoil. Compost material used to improve the

Compost amendments that are intended to meet specific post-construction stormwater management

goals shall further meet the requirements of Appendix 3.06.2 Post Construction Stormwater

Standard Detail & Specifications

Vegetative Stabilization

otherwise be detrimental to proper grading and seedbed preparation.

Management BMP Standards and Specifications, Section 14.0 Soil Amendments.

percentage of organic matter shall be provided by a certified supplier.

										TOPE	Octiminates of by in not weather
2	Deertongue	30	0.69	Α	0	Α	Α	0	Α	Add 100	Good erosion control mix
	Sheep Fescue	30	0.69							lbs./ac	Tolerant of low fertility soils
	Common Lespedeza ⁵	15	0.35							Winter	Good wildlife cover and food
	Inoculated									Rye	
3	Tall Fescue (Turf-type) or	50	1.15	0	Α	0	0	Α	0	Add 100	Good erosion control mix
	Strong Creeping Red Fescue or	50	1.15							lbs./ac.	Tall Fescue for droughty
	Perennial Ryegrass	50	1.15							Winter	conditions. Creeping Red
										Rye	Fescue for heavy shade. Flatpea
	plus Flatpea⁵	15	0.34								to suppress woody vegetation.
4	Strong Creeping Red Fescue	100	2.3	0	Α	0	0	Α	0	Add 100	Suitable waterway mix.
	Kentucky Bluegrass	70	1.61							lbs./ac.	Canada Bluegrass more
	Perennial Ryegrass or	15	0.35							Winter	drought tolerant.
	Redtop	5	0.11							Rye	Use Redtop for increased
	_										drought tolerance.
	plus White Clover ⁵	3	0.07								
5	Switchgrass ^{6,7} or	10	0.23		0			0			Native warm-season mixture.
	Coastal Panicgrass	10	0.23								Tolerant of low fertility soils.
	Big Bluestem	5	0.11								Drought tolerant.
	Little Bluestem	5	0.11								Poor shade tolerance.
	Indian Grass	5	0.1								N fertilizer discouraged - weeds
6	Tall Fescue (turf-type)	150	3.5	0	Α	0	0	Α	0		Managed filter strip for
	(Blend of 3 cultivars)										nutrient uptake.
7	Tall Fescue	150	3.5	0	Α	0	0	Α	0		Three cultivars of Kentucky
	Ky. Bluegrass (Blend)	20	0.46								Bluegrass. Traffic tolerant.
	Perennial Ryegrass	20	0.46								
8	Big Bluestem ⁷	10	0.23	0	Α		0	Α			All species are native.
	Indian Grass ⁷	10	0.23								Indian Grass and Bluestem have
	Little Bluestem ⁷	8	0.18								fluffv seeds. Plant with a
	Creeping Red Fescue	30	0.69								specialized native seed drill.
	plus one of:										•
	Partridge Pea	5	0.11								Creeping Red Fescue will
	Bush Clover	3	0.07						1		provide erosion protection while
	Wild Indigo	3	0.07						1		the warm season grasses
	Showy Tick-Trefoil	2	0.05						1		get established.

ource:	Symbol:	Detail No

DE-ESC-3.4.3

Sheet 2 of 4

Effective FEB 2019

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Seeding Mixtures		Seedin	Optimum Seeding Dates ² O = Optimum Planting Period A = Acceptable Planting Period					Rema			
Mix No.	Certified Seed ³			Coastal Plain Piedmont			nt	Ali⁴			
	Poorly Drained Soils	lb/Ac	lb/1000 sq.ft.	2/1- 4/30	5/1- 8/14	8/15- 10/31	3/1- 4/30	5/1- 7/31	8/1- 10/31	10/31-2/1	
9	Redtop Creeping Bentgrass Sheep Fescue Rough Bluegrass	75 35 30 45	1.72 0.8 0.69 1	0	Α	0	0	А	0	Add 100 lbs./ac. Winter Rye	Quick stab disturbed sites
10	Reed Canarygrass ⁶	10	0.23	Α		0	Α		0	,-	Good erosion cover and wetla
	Residential Lawns										
11	Tall Fescue Perennial Ryegrass Kentucky Bluegrass Blend	100 25 30	2.3 0.57 0.69	0	А	0	0	A	0		High value, hig light traffic, irriga Well drained
12	Tall Fescue Perennial Ryegrass Sheep Fescue	100 25 25	2.3 0.57 0.57	0	Α	0	0	Α	0		Modera low mair traffic t
13	Creeping Red Fescue Chewings Fescue Rough Bluegrass Kentucky Bluegrass	50 50 20 20	1.15 1.15 0.4 0.4	0	Α	0	0	А	0		Shade t moderate tra moderate m
14	Creeping Red Fescue Rough Bluegrass or Chewings Fescue	50 90	1.15 2.1	0	Α	0	0	Α	0		Shade moisture
15	K-31 Tall Fescue	150	3.5	0	Α	0	0	Α	0		Monoculture, be alone in lawns

 Cool season species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated. All leguminous seed must be inoculated. Warm season grass mix and Reed Canary Grass cannot be mowed more than 4 times per year. Warm season grasses require a soil temperature of at least 50 degrees in order to germinate, and will remain dormant until then. 	maximum % of weed	seeds shall be in accordance with Section 1, Chapter 24, Title 3 of the Delaware Code.
6, Warm season grass mix and Reed Canary Grass cannot be mowed more than 4 times per year.	4. Cool season specie	es may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
	5. All leguminous see	d must be inoculated.
7. Warm season grasses require a soil temperature of at least 50 degrees in order to germinate, and will remain dormant until then.	6. Warm season gras	s mix and Reed Canary Grass cannot be mowed more than 4 times per year.
	7. Warm season gras	ses require a soil temperature of at least 50 degrees in order to germinate, and will remain dormant until then.
	g	

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

urce:	Symbol:	Detail No.	
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective FEB 2019	
		2,100,110 1 20 10	

Standard Detail & Specifications Vegetative Stabilization

Construction Notes:

a. Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins. b. Final grading and shaping is not necessary for temporary seedings.

. Seedbed Preparation

It is important to prepare a good seedbed to insure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted.

Soil Amendments

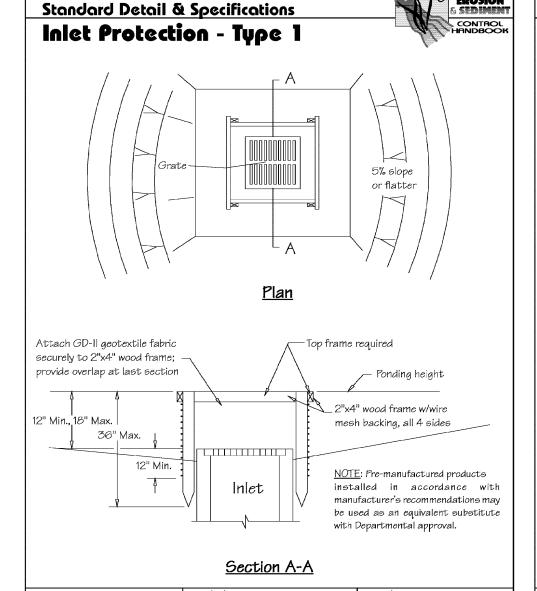
- a. Lime Apply liming materials based on the recommendations of a soil test in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil
- b. Fertilizer Apply fertilizer based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly of into the top 4 to 6 inches of soils.

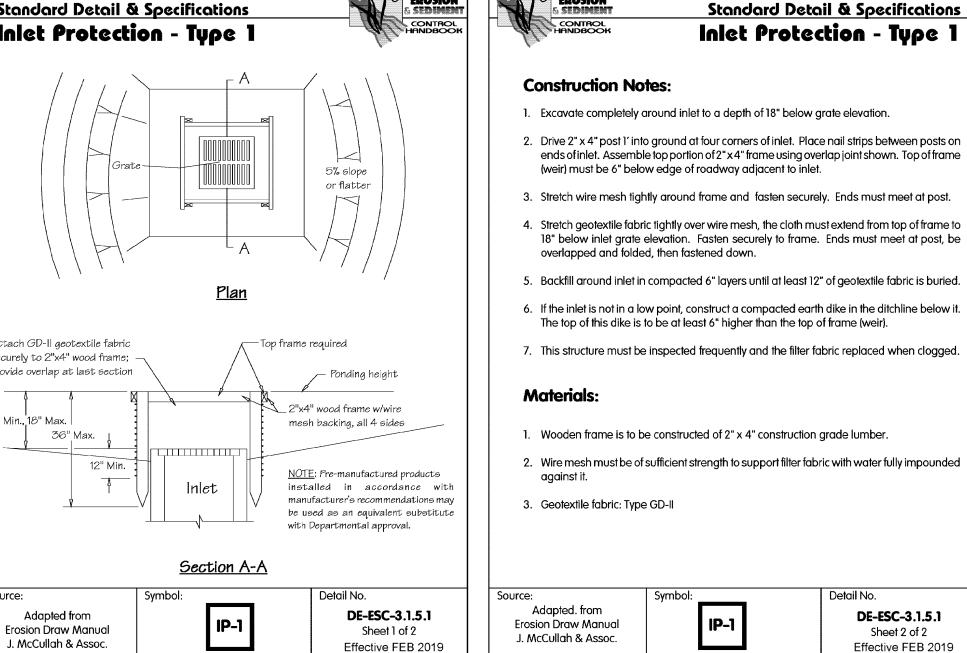
- a. For temporary stabilization, select a mixture from Sheet 1. For a permanent stabilization, select a mixture from **Sheet 2** or **Sheet 3** depending on the conditions. Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.
- b. Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth.
- c. Seed that has been broadcast should be covered by raking or dragging and then <u>lightly</u> tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without

Mulching

All mulching shall be done in accordance with detail **DE-ESC-3.4.5**.

Air moletning shall be done in accordance with detail DE-ESC-S.4.3 .				
Source:	Symbol:	Detail No.	ľ	_
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 4 of 4 Effective FEB 2019		K





Delaware ESC Handbook



Date: APRIL, 2020 Dwn.By:

2020-05-15 P&Z

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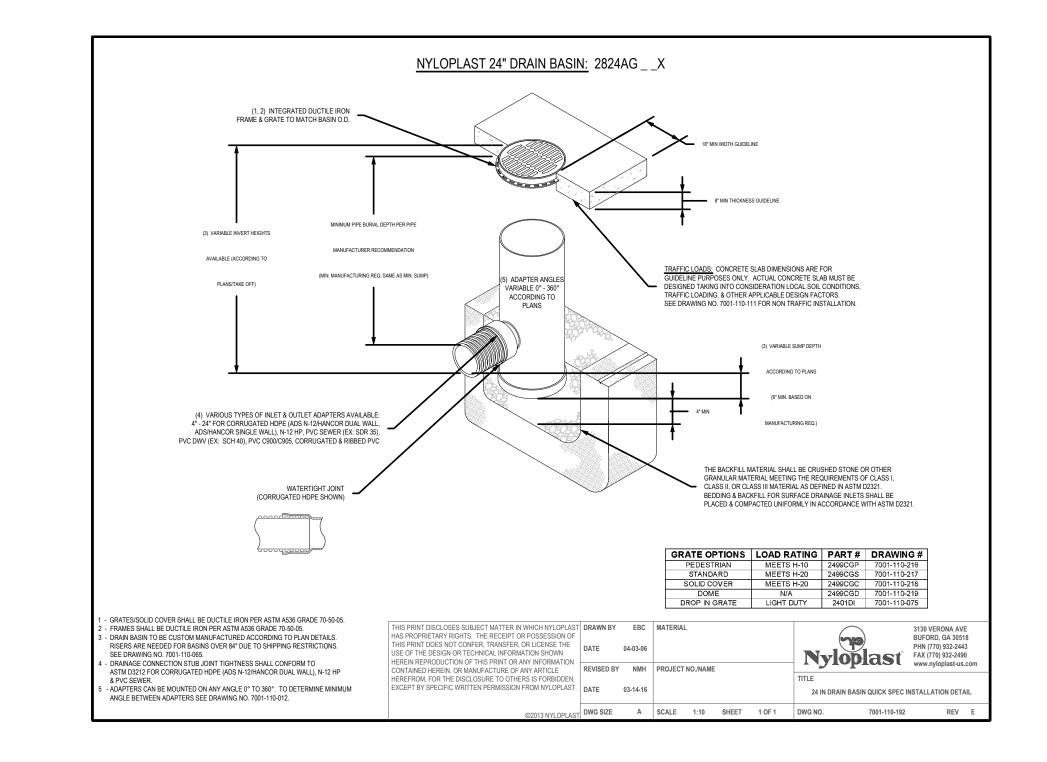
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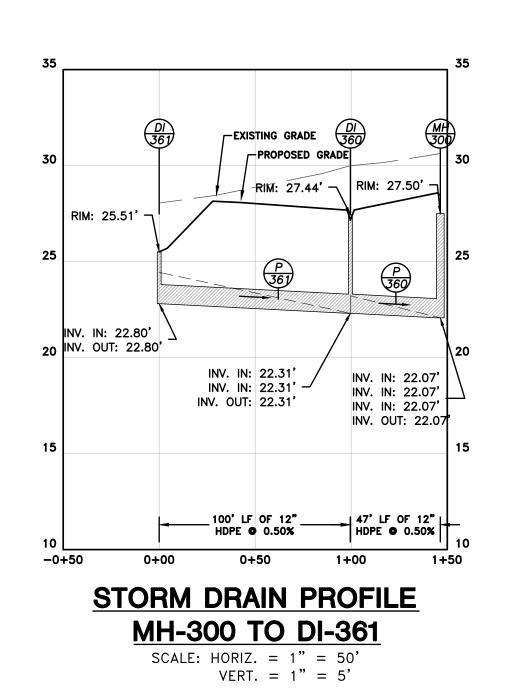
AWA

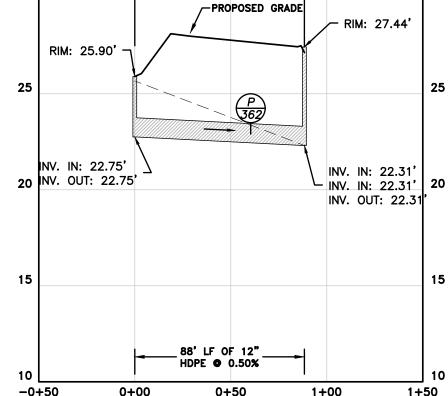
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2261J008

BJM







STORM DRAIN PROFILE DI-360 TO DI-362

SCALE: HORIZ. = 1" = 50' VERT. = 1" = 5'

DAVIS, BOWEN FRIEDEL

OBOTH HUNDRED, DELAWARE

REHOBOTH

SLE

2020-05-15 P&Z

APRIL, 2020

AS NOTED

BJM

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C-604

AND REHO COUNTY,

SUSSEX

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