

# CURVE DATA

ВМ	COORDI	COORDINATES					
NAME	NORTH	EAST	ELEV.				
BM AI	1,473,646.4390	536,248.5630	87.56				
BM A2	1,473,604.0040	536,657.9480	86.12				
BM A3	1,473,143.9490	536,606.5010	84.99				
BM A4	1,472,953.1520	536,265.0020	83.25				
BM A5	1,473,242.8130	536,085.2000	86.65				
BM A6	1,473,264.2280	536,325.0180	86.50				
BM A7	1,473,492.4380	536,343.9620	87.36				
BM A8	1,474,037.7130	535,625.3110	92.05				
BM A9	1,474,530.9780	535,673.9880	92.47				
BM IA28	1,473,573.5150	535,860.6890	91.21				
BM IBI	1,473,543.5870	535,566.4000	90.52				
BM IB2	1,473,050.8690	535 <b>,</b> 486.9340	88.84				

BENCHMARK DATA

# CONTROL POINT DATA

WWDEE	COORDI	ELEV		
NUMBER	NORTH	EAST	ELEV.	
14-1	1,473,066.9720	536,490.8530	EXISTING	
14-2	1,473,306.8933	536,569.4776	87.30	
14-3	1,473,335.4562	536,576.1258	87.45	
14-4	1,473,356.0181	536,541.3174	87.90	
14-5	1,473,366.0918	536,531.8359	87.51	
14-6	1,473,365.6451	536,535.2458	88.01	
14-7	1,473,431.2523	536,547.6466	87.67	
14-8	1,473,441.2313	536,546.9991	87.77	
14-9	1,473,505.0970	536,542.8552	87.77	
14-10	1,473,513.0802	536,542.3372	87.77	
14-11	1,473,570.4710	536,438.4031	87.54	
14-12	1,473,567.8810	536,398.4870	87.74	
14-13	1,473,566.9098	536,383.5/85	87.76	
14-14	1,473,503.0441	536,387.6625	87.76	
14-15	1,473,504.0153	536,402.6310	87.77	
14-16	1,473,496.0324	536,403.1523	87.77	
14-17	1,473,495.0611	536,388.1838	87.76	
14-18	1,473,431.1952	536,392.3244	87.76	
14-19	1,473,432.1664	536,407.2929	87.77	
14-20	1,473,422.1874	536,407.9404	87.67	
14-21	1,473,421.2162	536,392.9719	87.76	
14-22	1,473,357.3507	536,397.1192	87.76	
14-23	1,473,358.3219	536,412.0877	87.61	
14-24	1,473,341.1532	536,317.3737	87.75	
14-25	1,473,350.8758	536,297.3290	87.50	
14-26	1,473,349.9045	536,282.3605	87.67	
14-27	NOT USED			
14-28	1,473,331.8366	536,266.4534	87.26	
14-29	1,473,323.5564	536,246.9487	87.17	
14-30	1,473,414.7413	536,293.1817	87.68	
14-31	1,473,413.7700	536,278.2132	87.67	
14-32	1,473,423.7490	536,277.5657	87.77	
14-33	1,473,424.7203	536,292.5342	87.79	
14-34	1,473,488.5862	536,288.3936	87.87	
14-35	1,473,487.6147	536,273.4218	87.89	
14-36	1,473,495.5979	536,272.9038	87.86	
14-37	1,473,496.5692	536,287.8723	87.87	
14-38	1,473,560.4349	536,283.7284	87.87	
14-39	1,473,559.4636	536,268.7598	87.86	
14-40	1,473,605.7958	536,174.9955	EXISTING	
14-41	1,473,601.2439	536,086.0986	EXISTING	
14-42	1,473,552.9887	536,168.9697	88.07	

CURVE	P.C. STATION P.I. STATION P.T. STATION COORDINATES COORDINATES COORDINATES		DELTA	TANGENT	LENGTH	RADIUS				
NAME	NORTH	EAST	NORTH	EAST	NORTH	EAST				
14-CI	1,473,072.8147	536,489.0070	1,473,087.3490	536,484.4149	1,473,102.3129	536,487.3165	28° 30' 29.16" RT	15.24'	29.85'	60.00'
14-C2	1,473,102.9147	536,522.2903	1,473,104.5975	536,522.3922	1,473,106.2394	536,522.7744	9° 38' II.77" RT	1.69'	3.36'	20.00'
14-C3	NOT USED	-								
14-C4	1,473,154.3624	536,493.1699	1,473,157.7469	536,493.1699	1,473,178.8030	536,496.0588	73° 01′ 30.20″ LT	21.25'	36.59'	28.71'
14-C5	1,473,245.7417	536,517.4048	1,473,288.9957	536,517.4048	1,473,286.1428	536,473.4376	104° 41′ 11.73″ LT	44.06'	62.12'	34.00'
14-C6	1,473,294.1600	536,525.1688	1,473,297.5163	536,525.1688	1,473,246.6293	536,515.3012	104° 41′ 11.73″ RT	51.83'	73.09'	40.00'
14-C7	1,473,326.1958	536,534.7345	1,473,327.1573	<i>536,549.5526</i>	1,473,341.6199	536,552.9189	73° II' 05.82" LT	14.85'	25.55'	20.00'
14-C8	1,473,386.2441	<i>536,533.5346</i>	1,473,386.0499	536,530.5409	1,473,383.0562	536,530.7352	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C9	1,473,411.4887	536,551.9387	1,473,411.2945	536 <b>,</b> 548.9450	1,473,414.2882	536,548.7507	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-CIO	1,473,361.9693	536,557.6553	1,473,388.2054	536,563.7619	1,473,386.4613	536,536.8810	106° 48′ 54.18″ LT	26.94'	37.29'	20.00'
I4-CII	1,473,430.1141	536,571.2079	1,473,412.6611	536,570.0075	1,473,411.5284	536,552.5500	82° 21' 10.63" RT	17.49'	28.75'	20.00'
14-C12	1,473,455.1406	536 <b>,</b> 595.2030	1,473,425.6424	536,597.1170	1,473,396.8517	536,590.4159	I6° 48′ 54.I8″ RT	29.56'	58.70'	200.00'
14-C13	1,473,441.4467	536,571.6212	1,473,462.8769	536,571.7118	1,473,461.4893	536,550.3263	93° 57′ 16.91″ LT	21.43'	32.80'	20.00'
14-C14	1,473,506.7160	536,567.8061	1,473,486.7580	536,569.1011	1,473,485.4630	536,549.1431	89° 59′ 59.08″ RT	20.00'	31.42'	20.00'
14-C15	1,473,488.1327	536,543.9559	1,473,485.1390	536,544.1502	1,473,485.3332	536,547.1439	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C16	1,473,458.1957	536,545.8984	1,473,461.1894	536,545.7042	1,473,461.3836	536,548.6979	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C17	1,473,533.2325	•	1,473,533.0383	536,541.0422	1,473,530.0446	536,541.2365	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C18	1,473,533.3622	•	1,473,534.6572	536,565.9931	1,473,514.6992	536,567.2881	90° 00' 00.00" RT	20.00'	31.42'	20.00'
14-C19	1,473,557.3119	536,544.4811	1,473,560.1608	536,588.3888	1,473,516.2532	536,591.2377	90° 00' 00.00" RT	44.00'	69.12'	44.00'
14-C20	1,473,553.5067	536,439.5038	1,473,550.5130	536,439.6981	1,473,550.7072	536,442.6917	89° 59′ 57.62″ LT	3.00'	4.71'	3.00'
14-C2I	1,473,523.7791	536,398.3423	1,473,523.9734	536,401.3360	1,473,520.9797	536,401.5302	90° 00′ 00.00″ RT	3.00'	4.71'	3.00'
14-C22	1,473,550.9167	536,399.5878	1,473,547.9230	536,399.7820	1,473,547.7288	536,396.7883	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C23	1,473,549.9455	536,384.6192	1,473,546.9518	536,384.8135	1,473,547.1460	536,387.8072	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C24	1,473,523.1964	536,389.3612	1,473,523.0021	536,386.3675	1,473,520.0084	536,386.5617	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C25	1,473,451.9302	536,403.0042	1,473,452.1245	536 <b>,</b> 405.9979	1,473,449.1308	536,406.1922	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C26	1,473,479.0680	536,404.2531	1,473,476.0743	536,404.4473	1,473,475.8801	536,401.4536	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C27	1,473,478.0968	536,389.2845	1,473,475.1031	536,389.4788	1,473,475.2973	536,392.4725	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C28	1,473,451.3475	536,394.0231	1,473,451.1532	536,391.0294	1,473,448.1595	536,391.2237	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C29	1,473,375.2863	536 <b>,</b> 410.9870	1,473,378.2800	536,410.7927	1,473,378.0857	536 <b>,</b> 407.7990	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C30	1,473,405.2233	536,409.0445	1,473,402.2296	536 <b>,</b> 409.2388	1,473,402.0354	536,406.2451	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C31	1,473,404.2521	536,394.0760	1,473,401.2584	536,394.2702	1,473,401.4526	536,397.2639	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C32	1,473,374.3150	536,396.0185	1,473,377.3088	536,395.8242	1,473,377.5030	536,398.8180	90° 00′ 02.38″ RT	3.00'	4.71'	3.00'
14-C33	1,473,315.5818	536,347.0566	1,473,314.2654	536,350.8649	1,473,314.5262	536,354.8858	22° 46′ 53.22″ LT	4.03'	7.95'	20.00'
14-C34	1,473,328.3115	536,305.7241	1,473,327.7651	536,311.8123	1,473,325.7680	536,317.5894	13° 56′ 23.65″ RT	6.11'	12.16'	50.00'
14-C35	1,473,370.6396	536,293.0404	1,473,370.8338	536,296.0341	1,473,367.8401	536,296.2283	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C36	1,473,397.7771	536,294.2858	1,473,394.7834	536,294.4801	1,473,394.5892	536,291.4864	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C37	1,473,396.8059	536,279.3173	1,473,393.8122	536,279.5116	1,473,394.0064	536,282.5053	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C38	1,473,366.8689	536,281.2598	1,473,369.8626	536,281.0655	1,473,370.0568	536,284.0593	90° 00′ 02.38″ RT	3.00'	4.71'	3.00'
14-C39	NOT USED									
14-C40	NOT USED						200 201 20 201 1 7		. =./	
14-C4I	1,473,443.9013		1,473,443.7071	536,276.2707	1,473,440.7134	536,276.4650	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C42	1,473,470.6504	· · · · · · · · · · · · · · · · · · ·	1,473,467.6567	536,274.7168	1,473,467.8509	536,277.7105	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C43	1,473,468.4339	536,286.6949	1,473,468.6282	536,289.6886	1,473,471.6219	536,289.4944	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C44	1,473,444.4841	536,288.2456	1,473,444.6783	536,291.2393	1,473,441.6846	536,291.4335	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C45	1,473,516.3330	536,283.5836	1,473,516.5272	536,286.5773	1,473,513.5335	536,286.7716	90° 00′ 00.00″ RT	3.00'	4.71'	3.00'
14-C46	1,473,540.2826	<u> </u>	1,473,540.4769	536,285.0233	1,473,543.4706	536,284.8291	90° 00' 00.00" LT 90° 00' 00.00" LT	3.00'	4.71' 4.71'	3.00'
14-C47	1,473,542.4993		1,473,539.5056	536,270.0548	1,473,539.6999	536,273.0485		3.00'		3.00'
14-C48	1,473,515.7502	536,274.6025	1,473,515.5560	536,271.6088	1,473,512.5623	536,271.8030	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C49 14-C50	1,473,605.7958	536,174.9955	1,473,603.3343	536,145.6609	1,473,573.9584	536,147.5670	88° 54′ 57.53″ LT	29.44'	46.56'	30.00'
14-C50	1,473,601.2439	536,086.0986	1,473,602.7383	536,115.6365	1,473,573.2247	536,117.5515	89° II' 01.58" RT	29.58'	46.70'	30.00'
14-C51 14-C52	1,473,508.5393 1,473,533.1154	536,168.3170 536,166.7223	1,473,509.3993	536,171.7980 536,170.2853	1,473,505.8211	536,172.0302	100° 09' 51.30" RT	3.59'	5.24'	3.00'
14-C52	<u> </u>	•	1,473,532.7125 1,473,534.9956	·	1,473,536.2906	536,470.0531 536,466.7223	100° 09' 51.30" LT 79° 50' 08.70" LT	3.59'	5.24'	
14-C53 14-C54	1,473,551.6937	536,149.0116 536,165.9511		536,150.0951 536,164.9247	1,473,533.1154	536,164.9959		16.73'	27.87'	20.00' 1.50'
14-C55	1,473,507.6179	•	1,473,507.2203		1,473,506.1220		72° 32′ 32.63″ LT   142° 16′ 13.98″ RT	1.10' 4.39'	1.90' 3.72'	1.50'
14-C56	1,473,500.2186	536,J56.6743 536,J68.3J70	1,473,503.8573	536,159.1302 536,152.0721	1,473,499.4765	536,159.4145 536,153.1556	79° 50′ 08.70″ LT	16.73'	27.87'	20.00'
14-056	1,473,508.5393	536,153.6736	1,473,504.5261	536,154.7570	1,473,487.8280	536,171.3843	79° 50′ 08.70″ LT	16.73'	27.87'	20.00'
14-058	1,473,479.8448 1,473,513.8535	536,106.3723	1,473,463.1467 1,473,514.8247	536,121.3408	1,473,461.2665 1,473,499.8562	536,171.3643	90° 00' 00.00" RT	15.00'	23.56'	15.00'
14-059	1,473,549.7512	536,120.3695	1,473,529.7932	536,120.3695	1,473,528.4982	536,100.4115	89° 59′ 59.54″ RT	20.00'	31.42'	20.00'
14-059	1,473,457.1673	536,125.0315	1,473,457.9443	536,125.0315	1,473,445.9695	536,125.8085	90° 00' 00.00" RT	12.00'	18.85'	12.00'
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TRANSPORTATIO	DN		ST	ATE OF FLORID	<u> </u>	CENTRAL F	LORIDA COMMUTER RA	AIL TRANSIT (C	FCRT) PHASE 2 S	SOUTH SHE

REVISIONS DATE BY

AECOM TECHNICAL SERVICES, Inc. 300 Colonial Center Pkwy, Suite 130 Lake Mary, FL. 32746 T 407.549.4200 F 407.549.4201 Certificate of Authorization No. 8115 DAVID S. BURWELL PE NO. 55853 www.aecom.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S ORANGE 423446-9-52-01

MEADOW WOODS STATION COORDINATE DATA

4:40:48 PM Q:\4234469520|\roadway\C|4-008 - coord data.dgn

SHEET NO.

CURVE DATA

	CONTROL P	OINT DATA	
BER	COORDI	NATES	
	NORTH	EAST	
13	1,473,489.1230	536,173.1136	8
14	1,473,481.1398	536,173.6316	ε
<b>1</b> 5	1,473,417.2741	536 <sub>9</sub> 177.7756	ε
16	1,473,407.2951	536,178.4231	ε
<i>1</i> 7	1,473,343.4296	536,182.5703	8

	COORDI	5.5.	
NUMBER	NORTH	EAST	ELEV.
14-43	1,473,489.1230	536,173.1136	88.16
14-44	1,473,481.1398	536,173.6316	88.18
14-45	1,473,417.2741	536,177.7756	87.86
14-46	1,473,407.2951	536,178.4231	87.82
14-47	1,473,343.4296	536,182.5703	87.96
14-48	1,473,327.6279	536,201.5898	87.40
14-49		·	
	1,473,319.3476	536,182.0851	87.51
14-50	1,473,323.4192	536,136.7262	87.82
14-51	1,473,391.0468	536,//3.3385	88.26
14-52	1,473,387.8741	536,064.4414	88.33
14-53	1,473,410.6583	536,044.9252	88.35
14-54	1,473,405.2108	536,037.0948	88.35
14-55	1,473,400.6868	536,022.5238	89.63
14-56	1,473,408.6700	536,022.0058	89.70
14-57	1,473,455.6444	536 <b>,</b> 027.8098	88.85
<i>14-58</i>	1,473,468.5365	536 <b>,</b> 041.1697	88.35
14-59	1,473,497.6433	536,057.3 <i>19</i> 0	88.33
14-60	1,473,500.8807	536,107.2140	88.26
14-61	1,473,523.7068	536,026.5668	88.5/
14-62	1,473,563.8470	536,161.2504	88.28
14-63	1,473,583.4122	536,178.4314	88.02
14-64	1,473,595.4828	536,171.6356	EXISTING
14-65	1,473,590.4167	536,093.5577	EXISTING
14-66	1,473,097.2960	536,521.9500	EXISTING
14-67	1,473,583.8567	535,813.3282	EXISTING
14-68	1,473,579.0175	535,729.4929	EXISTING
14-69	1,473,551.5774	535,743.2824	90.98
14-70		·	90.78
14-71	1,473,518.3827	535,787.5074	
	1,473,494.4064	535,804.0946	90.55
14-72	1,473,571.4769	535,804.4588	EXISTING
14-73	1,473,567.3425	535,740.7400	EXISTING
14-74	1,473,487.5811	535,745.4/34	90.20
14-75	1,473,414.5743	535,809.2746	90.74
14-76	1,473,379.7939	536,066.0389	88.80
14-77	1,473,374.8379	536,082.3230	88.80
14-78	1,473,388.6555	535,795.9248	90.51
14-79	1,473,378.6651	535,796.5730	91.05
14-80	1,473,387.7909	535,751.8883	90.20
14-81	1,473,368.6861	535 <b>,</b> 797.2205	91.27
14-82	1,473,353.8623	535 <b>,</b> 754.0898	90.34
14-83	1,473,274.0302	535 <b>,</b> 759.2698	90.34
14-84	1,473,346.8998	535,816.6720	90.89
14-85	1,473,289.0215	535,820.4274	91.05
14-86	1,473,272.6704	535,738.3138	90.52
14-87	1,473,268.5265	535,674.4481	90.42
14-88	NOT USED		
14-89	NOT USED		
14-90	1,473,267.1020	535,652.4943	90.48
14-91	1,473,262.9580	535,588.6286	91.00
14-92	1,473,356.0600	535,602.6297	91.39
14-93	1,473,342.7902	535,583.4486	91.02
14-94	1,473,346.9341	·	90.44
		535,647.3143	
14-95	1,473,357.6139	535,626.5793	91.15
14-96	1,473,367.5930	535,625.9318	91.10
14-97	1,473,380.8628	535,645.1129	90.40
14-98	1,473,376.7188	535,581.2472	90.95
14-99	1,473,366.0390	535,601.9822	91.32
14-100	1,473,456.5509	535,576.0672	90.79
14-101	1,473,470.6739	535,639.2854	90.40
14-102	1,473,543.1600	535,6/3.5552	90.51
14-103	1,473,472.0984	535,661.2393	90.40

CURVE	P.C. STAT COORDINA	TION TES	P.I. STAT COORDINAT		P.T. ST COORDII		DELTA	TANGENT	LENGTH	RADIUS
NAME	NORTH	EAST	NORTH	EAST	NORTH	EAST				
14-C6I	1,473,468.0129	536 <b>,</b> 158.7640	1,473,464.7221	536,161.6696	1,473,469.1028	536 <b>,</b> 161.3853	142° 16′ 13.98″ LT	4.39'	3.72'	1.50'
14-C62	1,473,461.8745	536 <b>,</b> 168.9191	1,473,462.1360	536,167.8500	1,473,463.2344	536 <b>,</b> 167.7787	72° 32′ 32.63″ RT	1.10'	1.90'	1.50'
14-C63	1,473,435.7689	536,170.6130	1,473,435.3714	536,/69.5866	1,473,434.2730	536,169.6579	72° 32′ 32.63″ LT	1.10'	1.90'	1.50'
14-C64	1,473,461.2665	536,171.3843	1,473,460.8636	536,174.9473	1,473,464.4417	536,174.7151	100° 09′ 51.30″ LT	3.59'	5.24'	3.00'
14-C65	1,473,436.6904	536,172.9789	1,473,437.5504	536,176.4599	1,473,433.9722	536,176.6921	100° 09′ 51.30″ RT	3.59'	5.24'	3.00'
14-C66	1,473,428.3696	536,161.3363	1,473,432.0084	536,/63.7922	1,473,427.6276	536,164.0764	142° 16' 13.98" RT	4.39'	3.72'	1.50'
14-C67	1,473,436.6904	536,172.9789	1,473,432.6772	536,156.7341	1,473,415.9791	536,157.8175	79° 50′ 08.70″ LT	16.73'	27.87'	20.00'
14-C68	1,473,409.0263	536,128.2899	1,473,407.7272	536,128.2899 536,159.5485	1,473,395.0765	536,129.1107	80° 24' 21.36" RT 79° 50' 08.70" LT	12.68' 16.73'	21.05' 27.87'	15.00'
14-C69 14-C70	1,473,406.0001 1,473,394.1682	536,158.4650 536,163.5555	1,473,389.3020 1,473,390.8774	536,166.4610	1,473,387.4218 1,473,395.2581	536,176.1757 536,166.1767	142° 16′ 13.98″ LT	4.39'	3.72'	20.00' 1.50'
14-C71	1,473,388.0297	536,173.7106	1,473,388.2913	536,172.6414	1,473,389.3897	536,172.5701	72° 32' 32.63" RT	1.10'	1.90'	1.50'
14-C72	1,473,363.1934	536,178.2817	1,473,363.3876	536,181.2753	1,473,360.3939	536,181.4696	89° 59′ 58.07″ RT	3.00'	4.71'	3.00'
14-C73	1,473,387.4218	536,176.1757	1,473,387.0188	536,179.7387	1,473,390.5970	536,179.5065	100° 09′ 51.30″ LT	3.59'	5.24'	3.00'
14-C74	1,473,409.0263	536,112.1483	1,473,409.3901	536,112.1483	1,473,405.8479	536,112.3782	99° 35′ 38.64″ LT	3.55'	5.2I'	3.00'
14-C75	1,473,411.6295	536,062.8874	1,473,411.8237	536,062.8874	1,473,408.8300	536,063.0816	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C76	1,473,472.6957	536,059.1321	1,473,469.7000	536,059.1321	1,473,469.5077	536,056.1362	90° 02' 17.56" RT	3.00'	4.71'	3.00'
14-C77	1,473,456.0666	536,084.1176	1,473,455.2896	536,084.1176	1,473,443.3148	536,084.8946	90° 00' 00.00" LT	12.00'	18.85'	12.00'
14-C78	1,473,443.3148	536,085.6715	1,473,431.3400	536,085.6715	1,473,432.1169	536,097.6464	90° 00' 00.00" LT	12.00'	18.85'	12.00'
14-C79	1,473,445.9695	536,126.5855	1,473,433.9947	536,126.5855	1,473,433.2177	536,114.6107	90° 00' 00.00" RT	12.00'	18.85'	12.00'
14-C80	1,473,481.6408	536,108.5409	1,473,480.4318	536,108.5409	1,473,484.2967	536,108.2901	104° 28′ 41.45″ RT	3.87'	5.47'	3.00'
14-C8I	1,473,523.3183	536,020.5794	1,473,521.3758	535,990.6424	1,473,491.4388	535,992.5849	90° 00' 00.00" LT	30.00'	47.12'	30.00'
14-C82	1,473,509.9038	536,045.5003	1,473,507.9613	536,015.5633	1,473,478.0242	536,017.5057	90° 00' 00.00" LT	30.00'	47.12'	30.00'
14-C83	1,473,398.1921	536,022.6857	1,473,368.2551	536,024.6281	1,473,370.1975	536,054.5652	90° 00' 00.00" LT	30.00'	47.12'	30.00'
14-C84	1,473,381.6696	535,999.7073	1,473,351.7327	536,001.6497	1,473,353.6750	536,031.5867	89° 59′ 59.24″ LT	30.00'	47.12'	30.00'
14-C85	1,473,249.6036	535,521.5653	1,473,251.0392	535,520.2476	1,473,249.1316	535,519.8497	125° 40′ 11.28″ LT	1.95'	2.19'	1.00'
14-C86	1,473,257.1214	535 <b>,</b> 515.5109	1,473,256.7375	535 <b>,</b> 515.9881	1,473,256.1381	535 <b>,</b> 515.8630	62° 57′ 51.51" RT	0.61'	1.10'	1.00'
14-C87	1,473,210.3532	535 <b>,</b> 513.4080	1,473,209.4610	535 <b>,</b> 511.5751	1,473,211.4565	535,511.9914	127° 44′ 21.30″ RT	2.04'	2.23'	1.00'
14-C88	1,473,205.7921	535 <b>,</b> 504.8045	1,473,205.9532	535,505.3953	1,473,206.5526	535,505.5204	62° 57′ 51.51″ LT	0.61'	1.10'	1.00'
14-C89	1,473,496.8625	536,122.5063	1,473,481.8939	536,123.4775	1,473,480.9227	536,108.5090	90° 00' 00.00" RT	15.00'	23.56'	15.00'
14-C90	1,473,208.7518	535,510.5566	1,473,219.4069	535,531.6139	1,473,225.1704	535,554.4989	12° 42' 14.03" RT	23.60'	47.01'	212.00'
14-C9I	1,473,374.1500	536,115.4791	1,473,375.1603	536,/30.4030	1,473,390.0869	536 <b>,</b> 129.4345	89° 50′ 21.84″ LT	14.96'	23.52'	15.00'
14-C92	NOT USED									
14-C93 14-C94	NOT USED									
14-C95	1,473,317.7953	536,123.4788	1,473,315.1389	536,117.2215	1,473,314.6988	536,110.4379	19° 17' 24.17" RT	6.80'	13.47'	40.00'
14-C95 14-C96	1,473,242.9046	536,127.8201	1,473,271.7341	536,127.8201	1,473,273.7530	536,158.9352	63° 53′ 45.99″ RT	31.18'	55.76'	50.00'
14-C97	1,473,270.2663	536,091.4700	1,473,278.7778	536,097.3782	1,473,278.1069	536,087.0389	128° 28′ 42.94″ LT	10.36'	11.21'	5.00'
14-C98	1,473,255.9280	536,083.4500	1,473,263.4865	536,086.7639	1,473,270.2663	536,091.4700	II° 05' 29.32" RT	8.25'	16.45'	85.00'
14-C99	1,473,276.9205	536,068.7530	1,473,278.4966	536,093.3450	1,473,255.9280	536,083.4500	242° 39′ 29.58″ LT	24.64'	63.53'	15.00'
14-C100	1,473,311.8488	536,148.4877	1,473,317.1025	536,148.4877	1,473,241.8740	536 115.5044	242° 39′ 29.58″ LT	82.14'	211.76'	50.00'
14-CIOI	1,473,551.9768	535,785.3276	1,473,581.9198	535,783.3847	1,473,583.8567	535,813.3282	90° 00' 41.44" RT	30.01'	47.13'	30.00'
14-C102	1,473,551.0208	535,761.3392	1,473,580.9246	535,759.3988	1,473,579.0175	535,729.4929	89° 56′ 10.75″ LT	29.97'	47.09'	30.00'
14-C103	1,473,547.7523	535,761.5512	1,473,532.8051	535,762.5211	1,473,531.8139	535,747.5753	89° 55′ 05.53″ RT	14.98'	23.54'	15.00'
14-C104	1,473,507.5391	535,764.0765	1,473,508.8341	535,764.0765	1,473,488.8761	535,765.3714	90° 00' 00.00" RT	20.00'	31.42'	20.00'
14-C105	1,473,531.8139	535,747.5753	1,473,531.6151	535,744.5776	1,473,534.6131	535,744.3831	90° 04′ 54.47" RT	3.00'	4.72'	3.00'
14-C106	1,473,481.8908	535 <b>,</b> 766.0189	1,473,478.8971	535 <b>,</b> 766.0189	1,473,478.7028	535,763.0252	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C107	1,473,386.0922	535 <b>,</b> 772.0406	1,473,389.0859	535,771.8464	1,473,388.8917	535 <b>,</b> 768.8527	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C108	1,473,358.1510	<i>535,773.8536</i>	1,473,355.1573	535,774.0478	1,473,354.9630	535,771.0541	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C109	1,473,271.7828	535,779.1431	1,473,275.3458	535 <b>,</b> 779.5460	1,473,275.1136	<i>535,</i> 775.9678	100° 09′ 51.30″ LT	3.59'	5.24'	3.00'
I4-CIIO	1,473,276.8791	535 <b>,</b> 803.1774	1,473,232.9715	535,806.0264	1,473,230.1225	535,762.1187	90° 00' 00.00" RT	44.00'	69.12'	44.00'
I4-CIII	1,473,271.7828	535 <b>,</b> 779.1431	1,473,255.1556	535,777.2628	1,473,254.0721	535,760.5647	79° 50′ 08.70″ RT	16.73'	27.87'	20.00'
14-C112	1,473,288.0503	535,802.4652	1,473,287.8560	535,802.4652	1,473,284.8623	535,802.6594	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C113	1,473,267.8738	535,718.8975	1,473,251.6289	535,722.9107	1,473,252.7124	535,739.6088	79° 50′ 08.70″ LT	16.73'	27.87'	20.00'
14-C114	1,473,293.0398	535,802.1414	1,473,292.8455	535,802.1414	1,473,289.8518	535,802.3357	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C115	1,473,266.2791	535,694.32/5	1,473,249.6519	535,692.4412	1,473,248.5684	535,675.7431	79° 50′ 08.78″ RT	16.73'	27.87'	20.00'
14-C116	1,473,267.8738	535,718.8975	1,473,271.3548	535,718.0376	1,473,271.5870	535,721.6157	100° 09' 51.30" RT	3.59'	5.24'	3.00'
14-C117	1,473,266.2791	535,694.3215	1,473,269.8421	535,694.7244	1,473,269.6099	535,691.1462	100° 09′ 51.22″ LT	3.59'	5.24'	3.00'
14-C118 14-C119	NOT USED									+
14-C120	1,473,262.3053	535,633.0780	1,473,246.0605	535,637.0912	1,473,247.1440	535,653.7893	79° 50′ 08.78″ LT	16.73'	27.87'	20.00'
17 0120	1971 39202.3033	2229022.0100	1971 39270.0003	JJJ9UJI .UJIZ	ודדוו ודבופע ודפו	223022.1022	13 30 00.10 LT	10.13	21.01	20.00

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1					

TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 300 Colonial Center Pkwy, Suite 130 Lake Mary, FL. 32746 T 407.549.4200 F 407.549.4201 Certificate of Authorization No. 8115 DAVID S. BURWELL PE NO. 55853 www.aecom.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY FINANCIAL PROJECT ID ROAD NO. CFRC P2S 423446-9-52-01 ORANGE

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION COORDINATE DATA

SHEET NO.

1465

4:40:48 PM Q:\4234469520I\roadway\CI4-008 - coord data.dgn

# CURVE DATA

WWD50	COORDI	COORDINATES						
NUMBER	NORTH	EAST	ELEV.					
14-104	1,473,476.2423	535 <b>,</b> 725.1050	90.40					
14-105	1,473,377.1111	535,772.6234	90.89					
14-106	1,473,373.1614	535,711.7514	91.10					
14-107	1,473,386.4312	535,730.9324	90.40					
14-108	1,473,367.1321	535,773.2709	91.03					
14-109	1,473,363.1824	535,712.3989	91.18					
14-110	1,473,352.5025	535,733.1339	90.48					
14-111	1,473,382.2873	535,667.0667	90.50					
14-112	1,473,371.6074	535,687.8017	91.27					
14-113	1,473,348.3586	535,669.2682	90.58					
14-114	1,473,361.6284	535,688.4492	91.35					
14-115	1,473,284.3944	535 <b>,</b> 527.0346	EXISTING					
14-116	1,473,176.1978	535,504.4803	EXISTING					
14-117	1,473,301.8972	535,518.4272	EXISTING					
14-118	1,473,163.6080	535,489.5825	EXISTING					
14-L1	1,473,438.9329	536,511.5770						
14-L2	1,473,429.6660	536,523.1981						
14-L3	1,473,436.3430	536,471.6609						
14-L4	1,473,427.0760	<i>536,483.2820</i>						
14-L5	1,473,433.7530	536,431.7449						
14-L6	1,473,424.4860	536 <b>,</b> 443.3659						
14-L7	1,473,428.8968	536,356.9023						
14-L8	1,473,419.6298	536,368.5233						
14-L9	1,473,426.3068	536 <b>,</b> 316.9862						
14-L10	1,473,417.0399	<i>536,328.6072</i>						
I4-LII	1,473,421.4507	536,242.1436						
14-L12	1,473,412.1837	<i>536,253.764</i> 6						
14-L13	1,473,418.8607	<i>536,202.22</i> 75						
14-L14	1,473,409.5937	536,213.8486						

CONTROL POINT DATA

CURVE	P.C. STAT COORDINA		P.I. STAT COORDINA		P.T. ST COORDI		DELTA	TANGENT	LENGTH	RADIUS
NAME	NORTH	EAST	NORTH	EAST	NORTH	EAST				
14-C121	1,473,260.7108	535,606.6238	1,473,244.0836	535,606.6238	1,473,243.0001	535,589.9257	79° 50′ 08.78″ RT	16.73'	27.87'	20000'
14-C122	1,473,262.3053	535,633.0780	1,473,265.7864	535,632.2180	1,473,266.0185	535,635.7962	100° 09′ 51.22″ RT	3.59'	5.24'	3.00'
14-C123	1,473,260.7108	535,608.9070	1,473,264.2738	535,608.9070	1,473,264.0416	535,605.3288	100° 09′ 51.22″ LT	3.59'	5.24'	3.00'
14-C124	1,473,347.0789	535,603.2124	344.0851, 473ء	535,603.4067	1,473,343.8909	535,600.4130	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C125	1,473,348.6328	535 <b>,</b> 627.1621	345.6391 و473	535,627.3563	1,473,345.8334	535,630.3500	90° 00′ 00.00″ LT	3.00'	4.71'	3.00'
14-C126	1,473,379.7620	535 <b>,</b> 628.1485	379.5678 و473	535,625.1548	1,473,376.5741	535,625.3491	90° 00′ 00.00" LT	3.00'	4.71'	3.00'
14-C127	1,473,377.8196	535,598.2115	1,473,378.0138	535,601.2052	1,473,375.0201	535,601.3995	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C128	1,473,450.8606	535,596.6728	1,473,447.8669	535,596.6728	1,473,447.6727	535,593.6791	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C129	1,473,516.9603	535 <b>,</b> 613.7829	502.8068و 473و1	535,593.1080	1,473,477.8040	535,594.7303	59° 19' 04.55" LT	25.06'	45.55'	44.00'
14-C130	1,473,472.3726	535,619.3274	1,473,469.3789	535,619.3274	1,473,469.5732	535,622.3211	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C131	1,473,500.6110	535,617.3849	1,473,499.3160	535,617.3849	1,473,479.3579	535,618.6799	90° 00' 00.00" LT	20.00'	31.42'	20.00'
14-C132	1,473,516.9603	535,613.7829	1,473,517.9253	535,615.1925	1,473,519.6300	535,615.0819	59° 19' 04.55" LT	1.71'	3.11'	3.00'
14-C133	1,473,502.0354	535,679.2548	1,473,503.3304		1,473,483.3724	535,680.5498	90° 00' 00.00" RT	20.00'	31.42'	20.00'
14-C134	1,473,506.1794	535,703.2045	1,473,504.8844	535,703.2045	1,473,484.9264	535,704.4995	90° 00' 00.00" LT	20.00'	31.42'	20.00'
14-C135	1,473,475.1416	535,705.1469	1,473,474.9474	535,705.1469	1,473,477.9411	535,704.9527	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C136	1,473,476.3871	535,681.1973	1,473,473.3934	535,681.1973	1,473,473.1991	535,678.2036	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C137	1,473,385.3305	535,713.9681	1,473,385.1362	535,710.9744	1,473,382.1425	535,711.1686	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C138	1,473,383.3880	535,684.0310	1,473,383.5822	535,687.0247	1,473,380.5885	535,687.2190	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C139	1,473,354.2013	535,712.9816	1,473,351.2076	535,713.1759	1,473,351.4018	535,716.1696	90° 00' 00.00" LT	3.00'	4.71'	3.00'
14-C140	1,473,352.6473	535,689.0320	1,473,349.6536	535,689.2262	1,473,349.4593	535,686.2325	90° 00' 00.00" RT	3.00'	4.71'	3.00'
14-C14I	1,473,301.8972	535,518.4272	1,473,237.4850	535,504.9281	1,473,241.7463	535,570.60/5	105° 32' 55.57" LT	65.81'	92.11'	50.00'
14-C142	1,473,231.0132	535,554.3938	1,473,228.3175	535,566.9948	1,473,225.1704	535,554.4989	153° 47' 20.07" RT	12.89'	8.05'	3.00'
14-C143	1,473,198.0445	535,515.9745	1,473,216.5205	535,552.4879	1,473,219.1702	535,593.3237	23° 07' 37.96" RT	40.92'	80.73'	200.00'
14-C144	1,473,256.6089	535,516.2101	1,473,236.1904	535,530.1936	1,473,231.0132	535,554.3938	43° 31′ 10.79″ LT	24.75'	47.09'	62.00'
14-C145	1,473,256.6089	535,516.2101	1,473,262.4138	535,512.2347	1,473,255.5264	535,510.7981	133° 48' 46.92" LT	7.04'	7.01'	3.00'
14-C146	1,473,205.9827	535,505.6510	1,473,202.2481	535,499.6852	1,473,209.1381	535,501.1223	133° 49' 45.05" RT	7.04'	7.01'	3.00'
14-C147	1,473,198.0445	535,515.9745	1,473,187.1754	535,494.4942	1,473,163.6054	535,489.5954	51° 25′ 09.21″ LT	24.07'	44.87'	50.00'
14-C148	1,474,334.3827	535,707.7423	1,474,595.8334	535,730.7554	1,474,333.9145	535,747.6239	171° 17' 05.20" RT	262.46'	59.79'	20.00'
14-C149	1,473,844.6698	535,646.8596	1,473,858.1686	535,645.9902	1,473,871.5053	535,648.2501	13° 18' 09.00" RT	13.53'	26.93'	116.00'
14-C150	1,473,679.1061	535,677.8118	1,473,677.5548	535,657.6224	1,473,697.7619	535,656.3210	90° 42' 31.04" RT	20.25'	31.66'	20.00'
14-C151	1,473,707.3811	535,787.9749	1,473,687.6678	535,789.2445	1,473,686.1545	535,769.5484	89° 17' 28.96" RT	19.75'	31.17'	20.00'
14-C152	1,473,265.7046	536,131.7444	1,473,263.9719	536,131.7444	1,473,239.4648	536,120.9994	62° 36′ 46.38″ LT	26.76'	48.08'	44.00'
14-C153	1,473,239.4648	536,102.1638	1,473,196.5044	536,102.1638	1,473,207.5160	536,056.5665	79° 54′ 07.59″ RT	46.91'	78.10'	56.00'
14-C154	1,473,207.5160	536,056.5665	1,473,212.9350	536,034.1273	1,473,189.8985	536,035.6109	107° 15′ 42.25″ LT	23.08'	31.83'	17.00'
14-C155	1,473,137.5256	536,038.9839	1,473,110.6075	536,040.7175	1,473,113.3294	536,067.5537	92° 06' 23.24" LT	26.97'	41.80'	26.00'
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		REVI	SIONS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TRANSPORTATION
AECOM TECHNICAL SERVICES, Inc.
300 Colonial Center Pkwy, Suite 130
Lake Mary, FL. 32746
T 407.549.4200 F 407.549.4201
Certificate of Authorization No. 8115
DAVID S, BURWELL PE NO. 55853 www.aecom.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

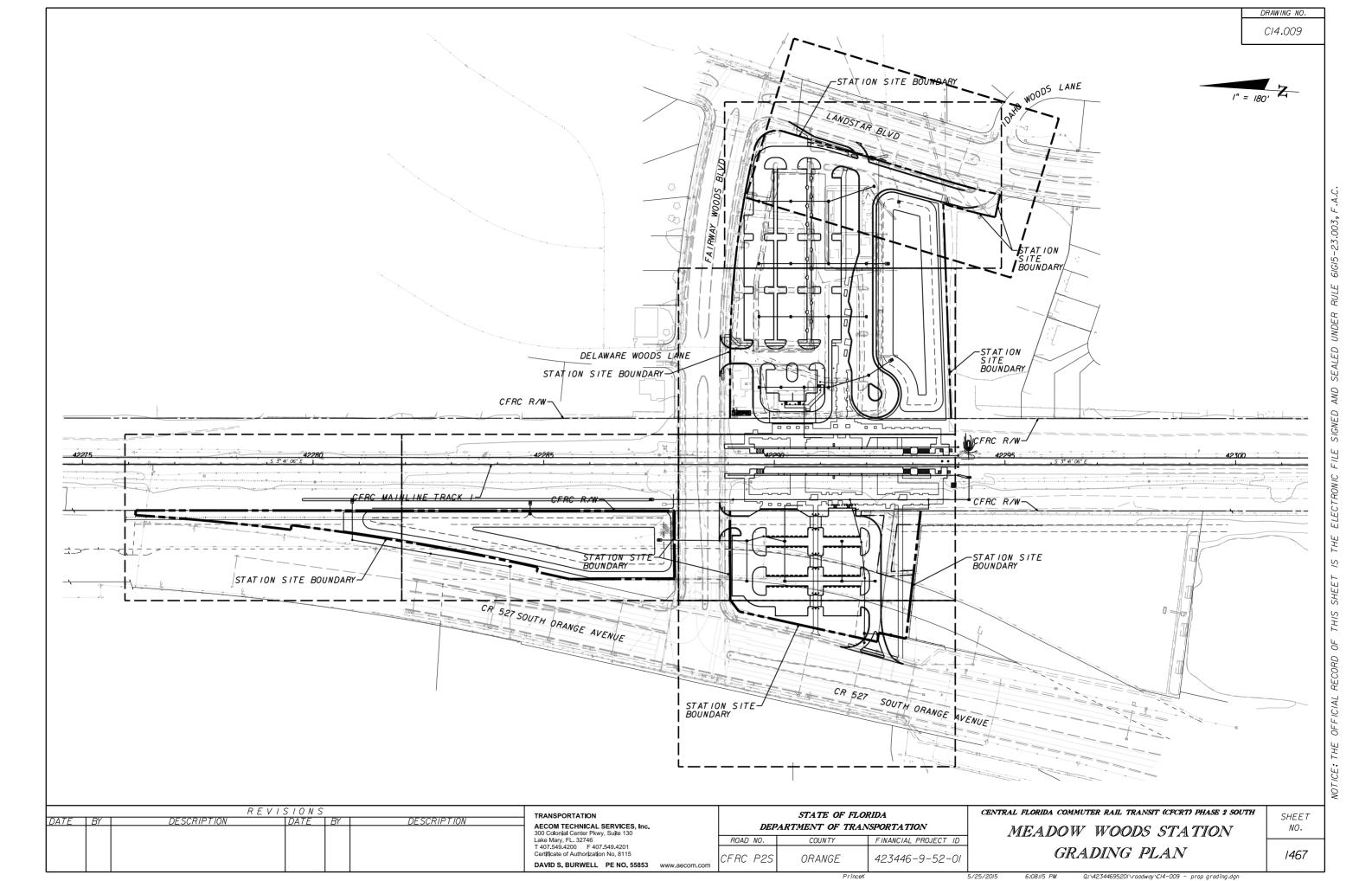
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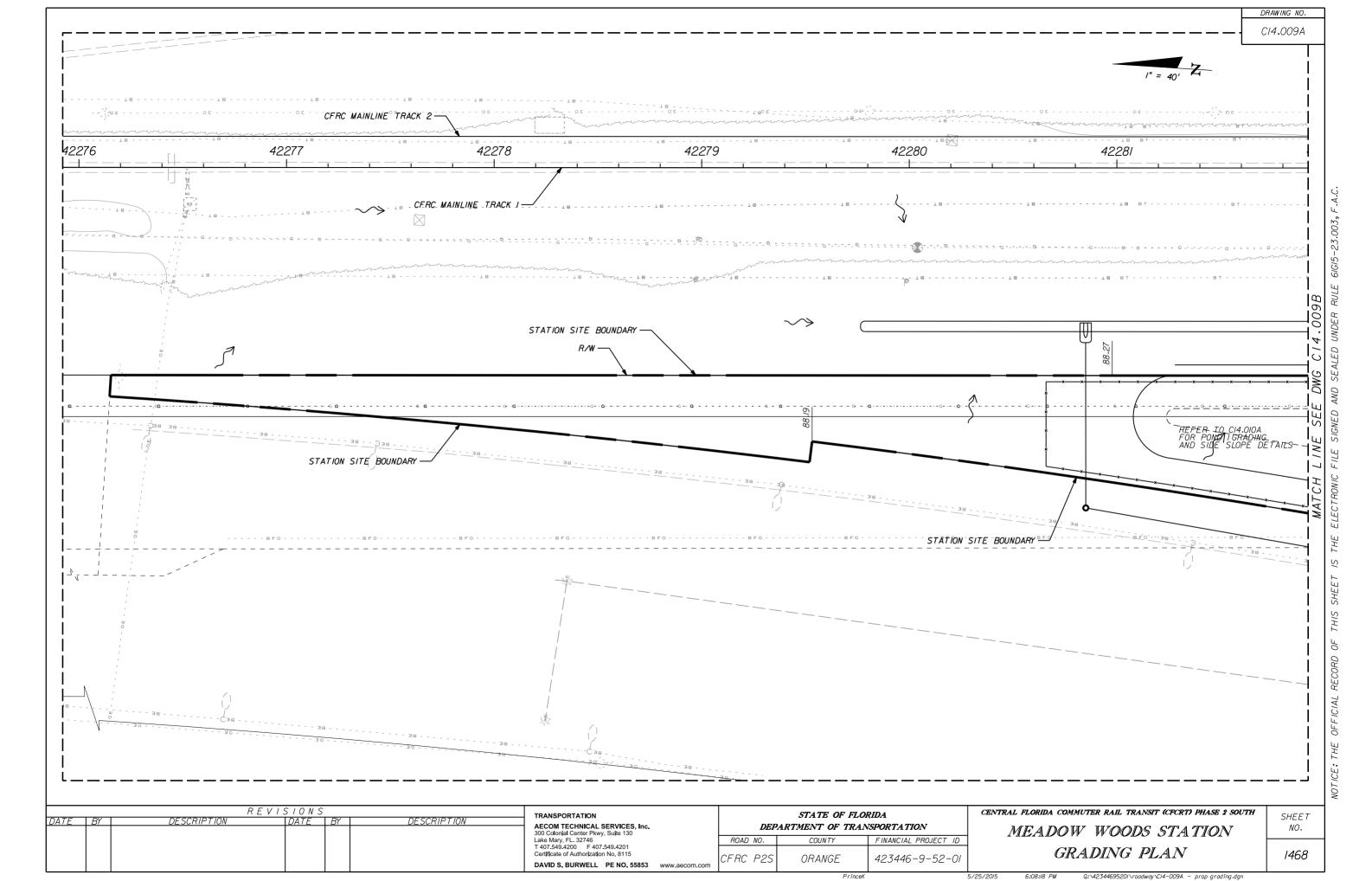
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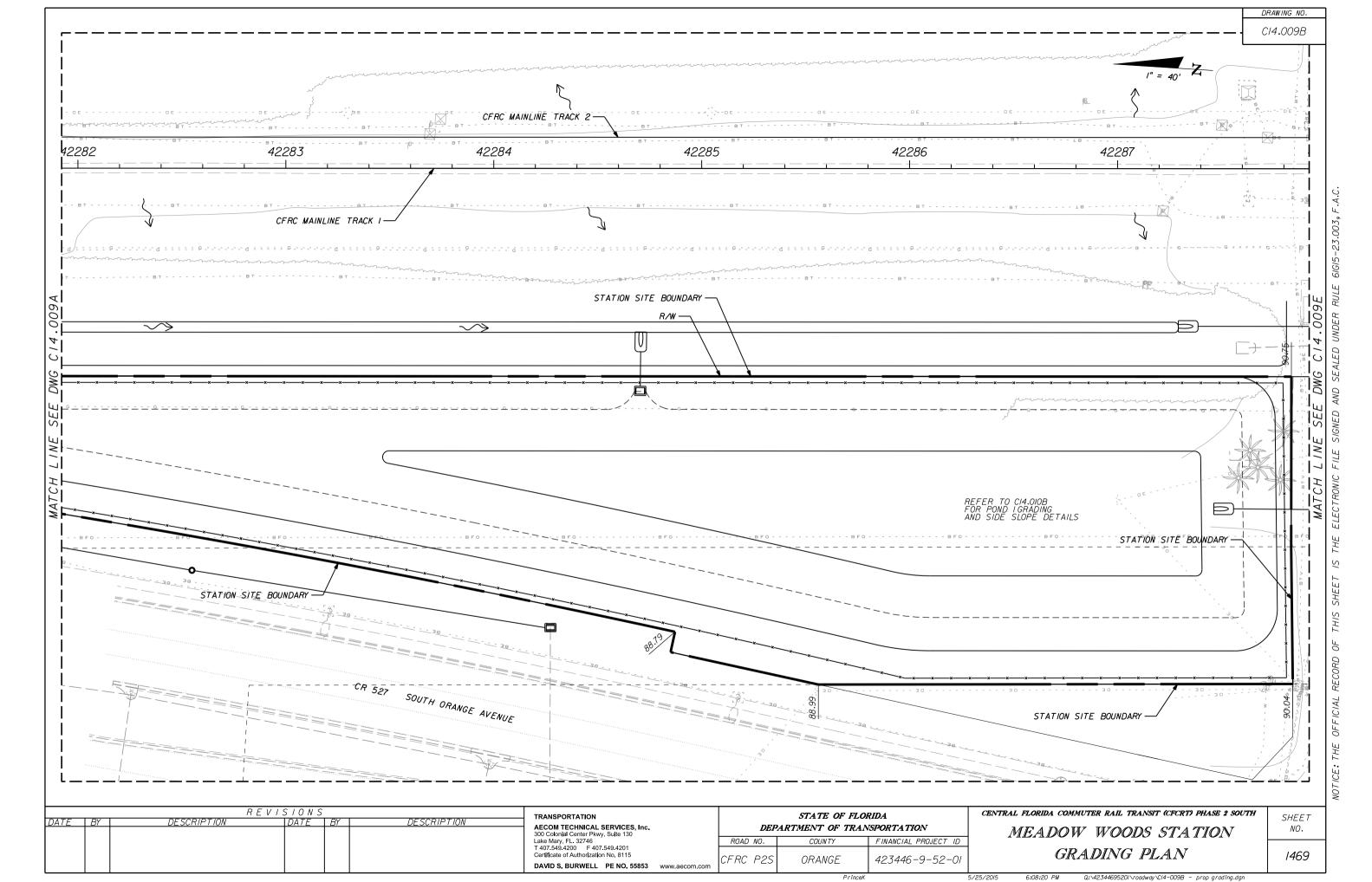
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COORDINATE DATA

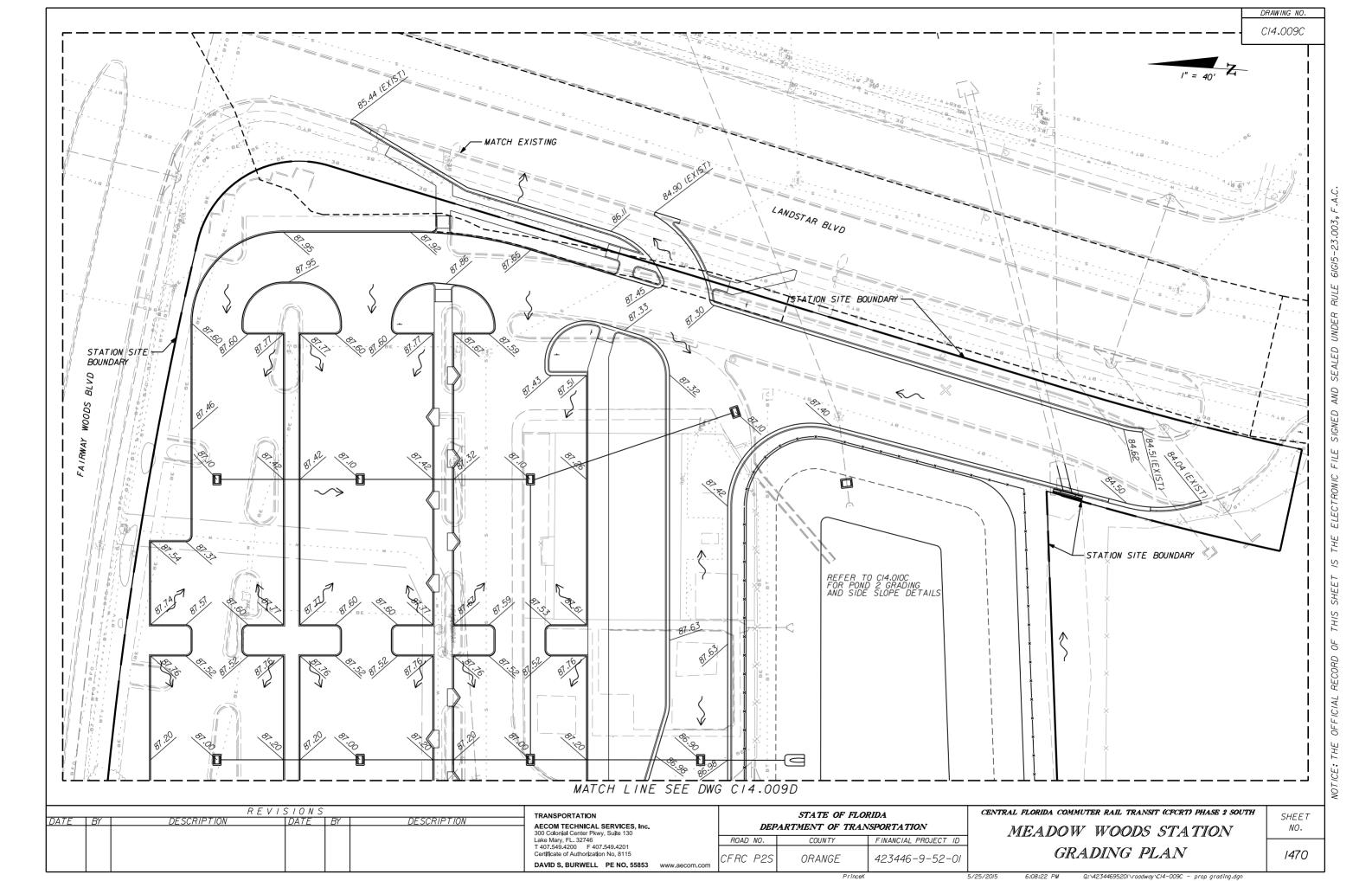
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

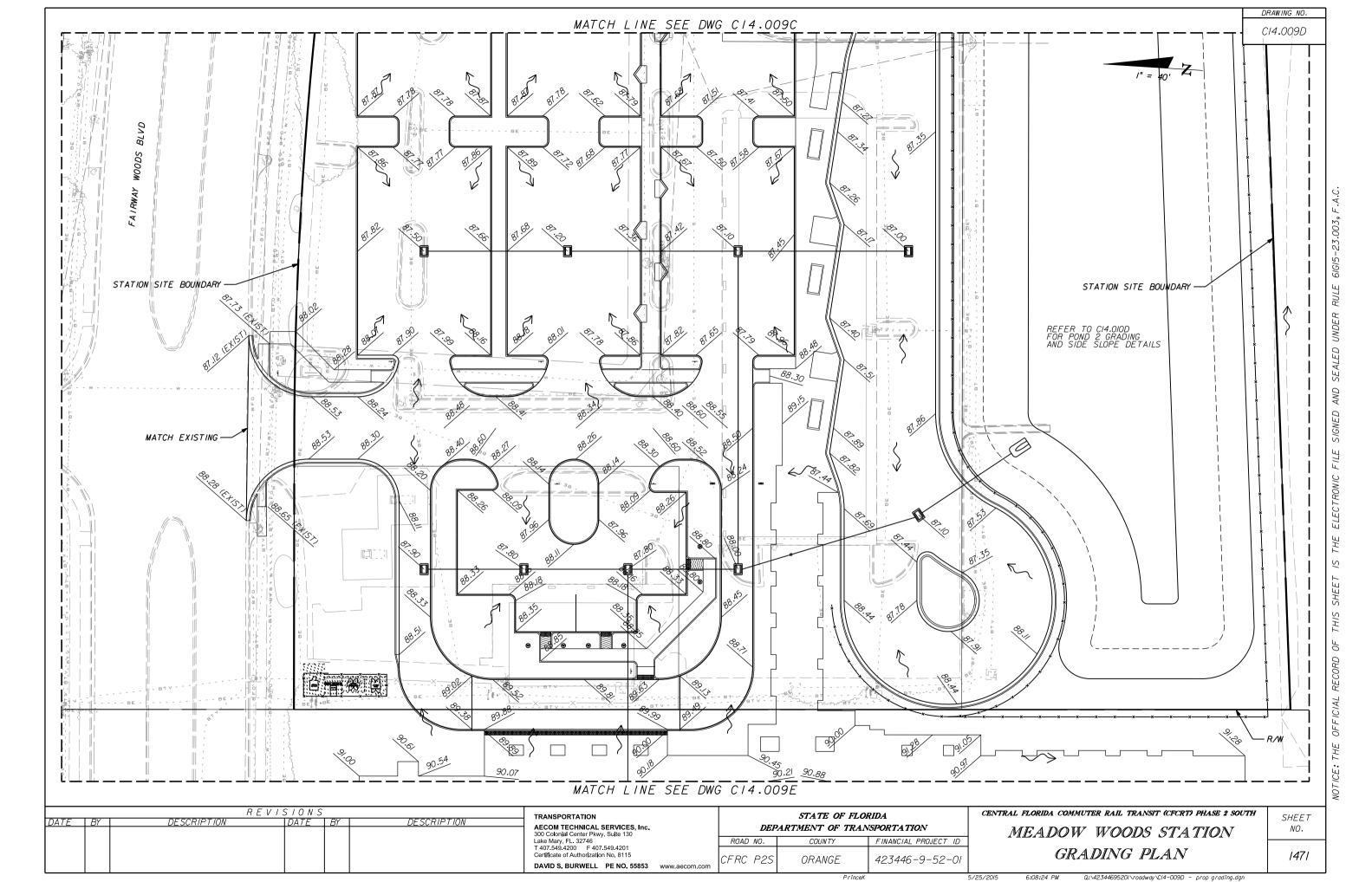
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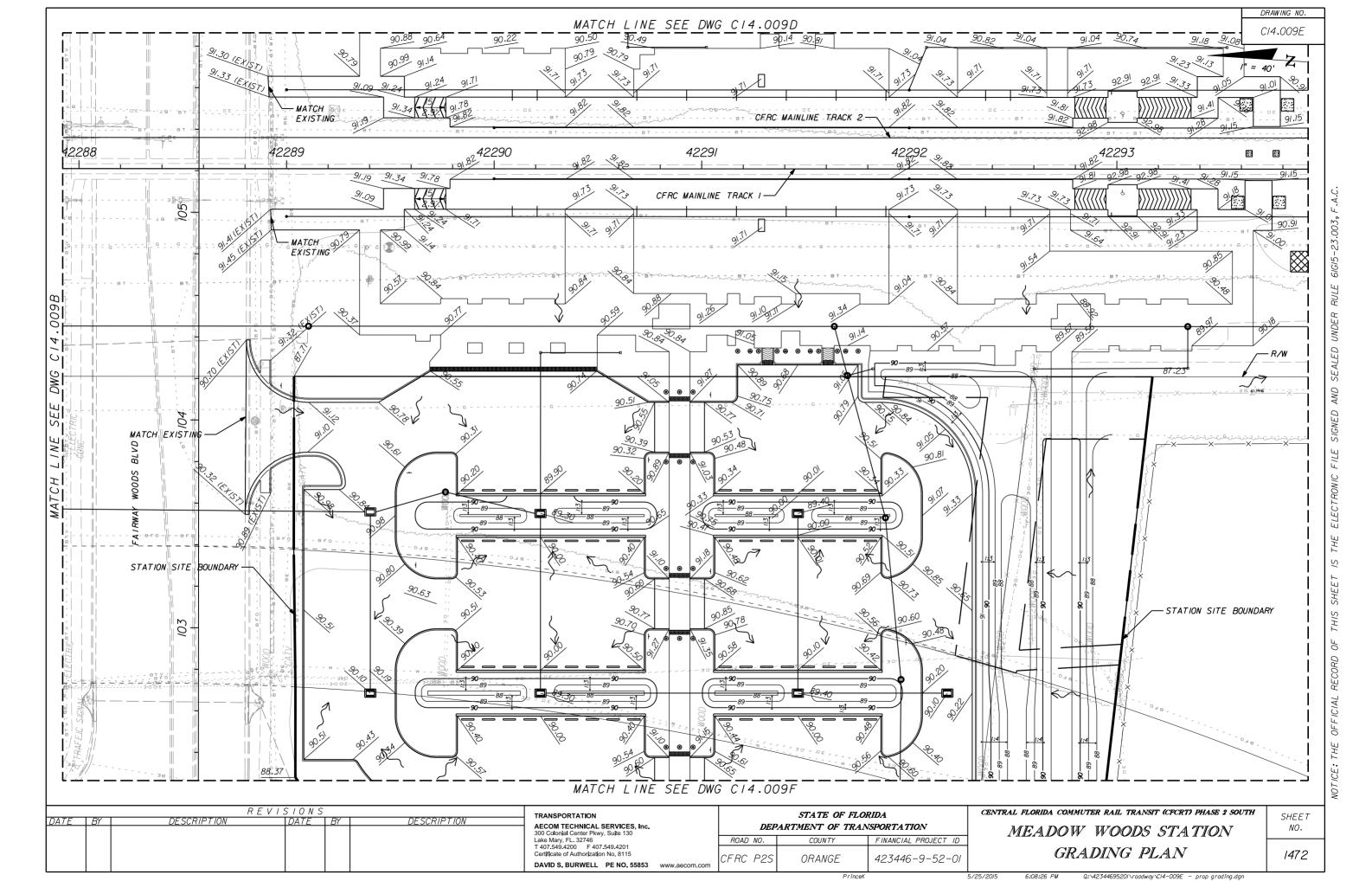


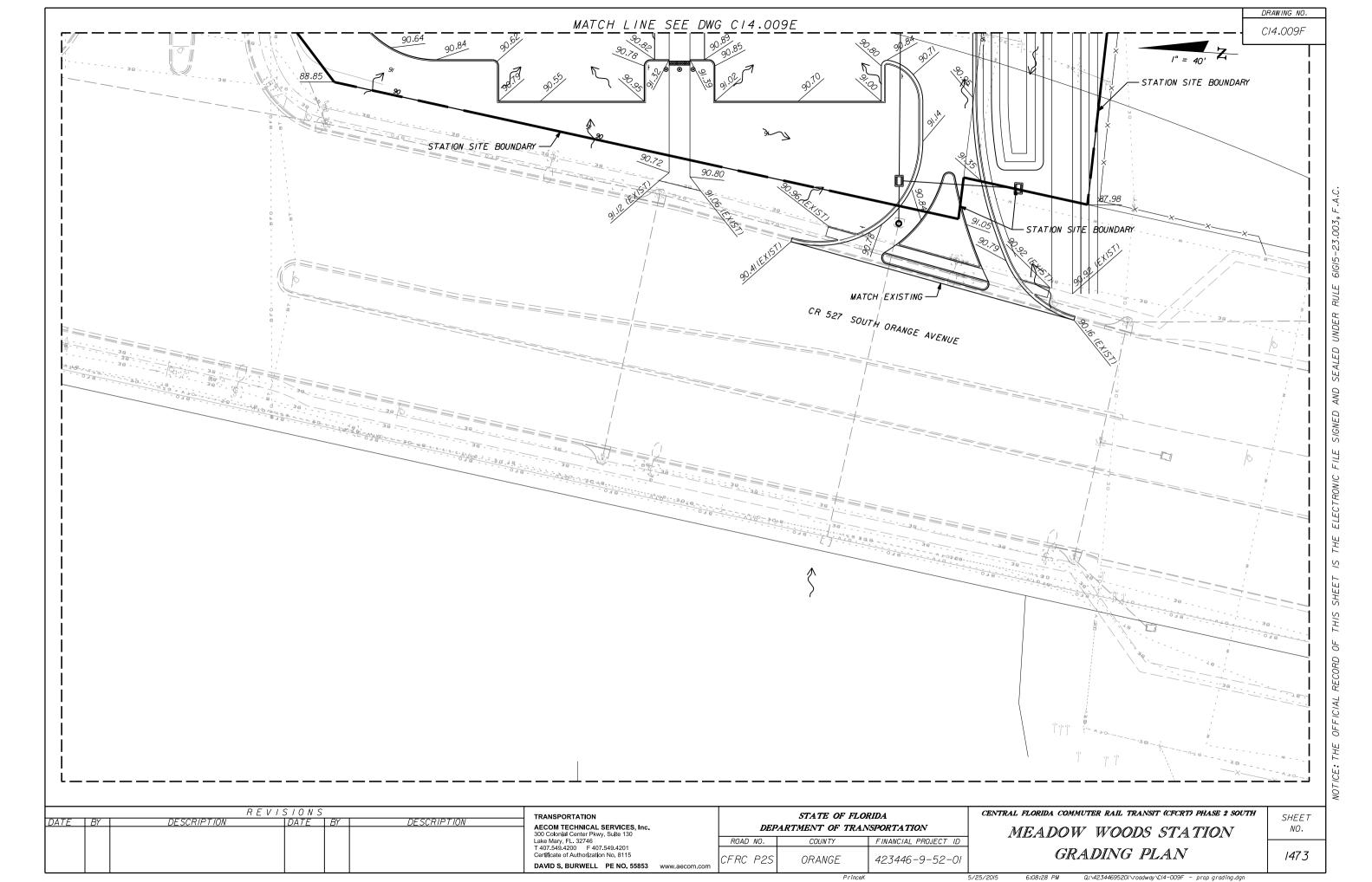


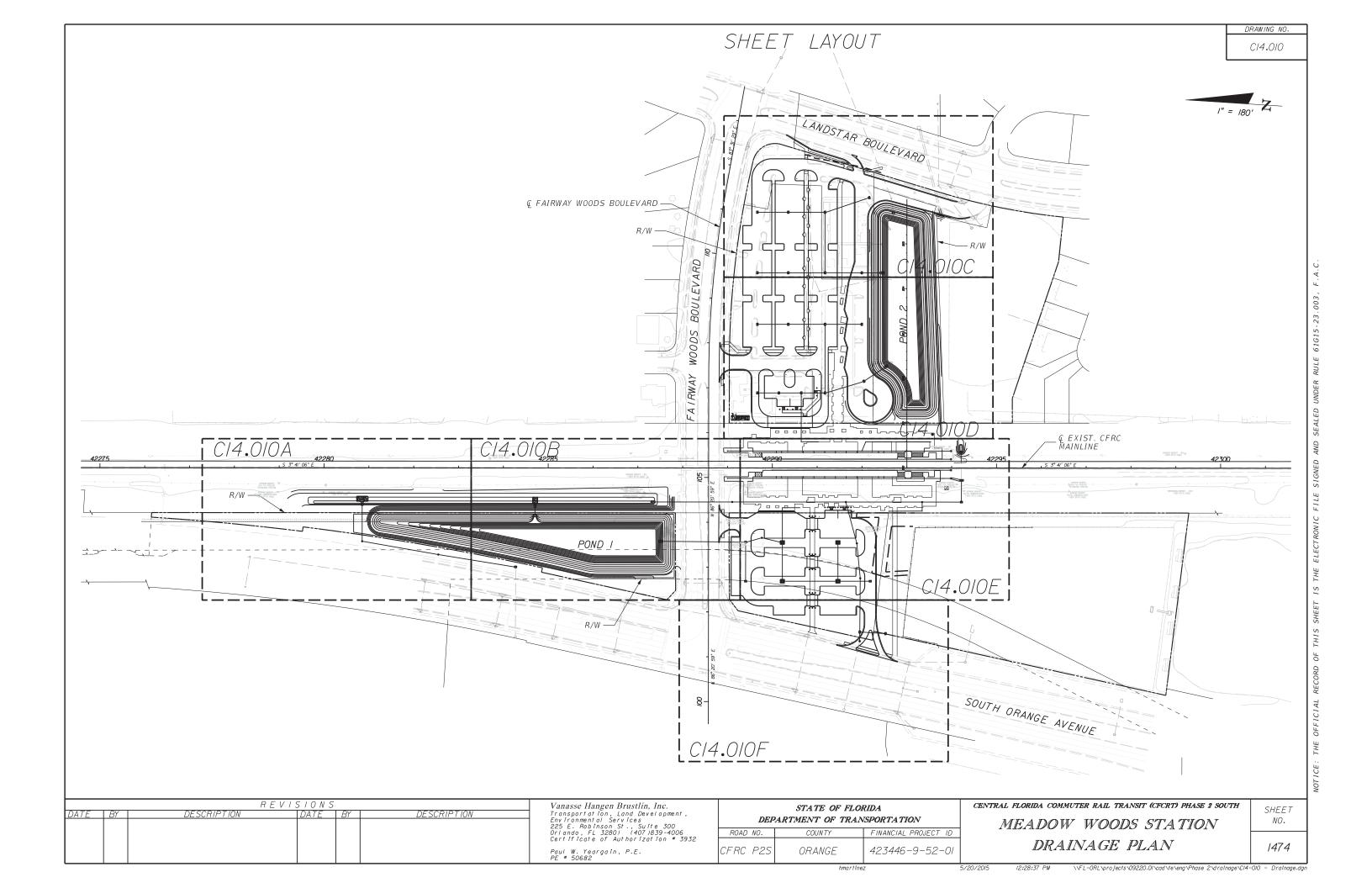


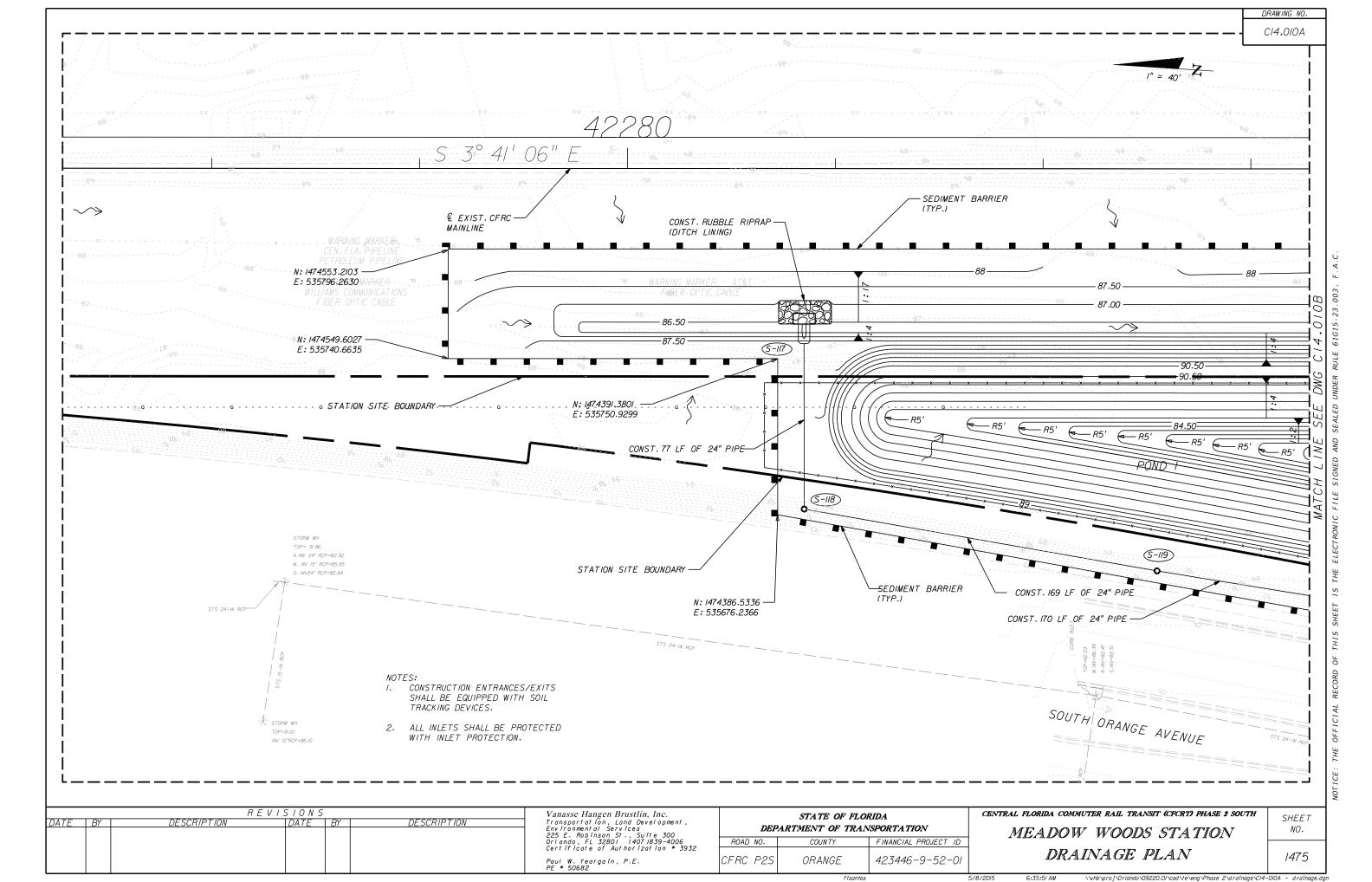


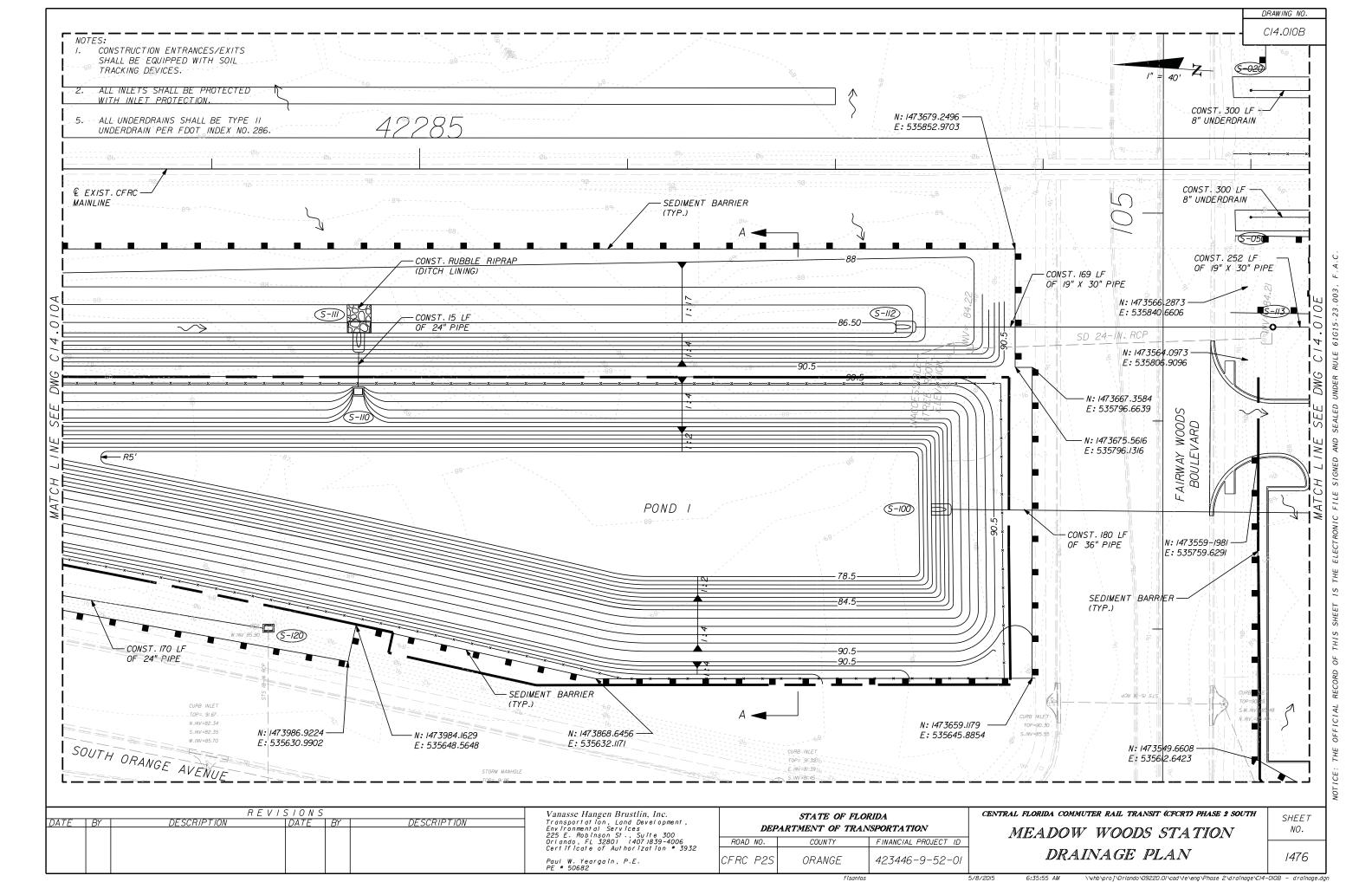


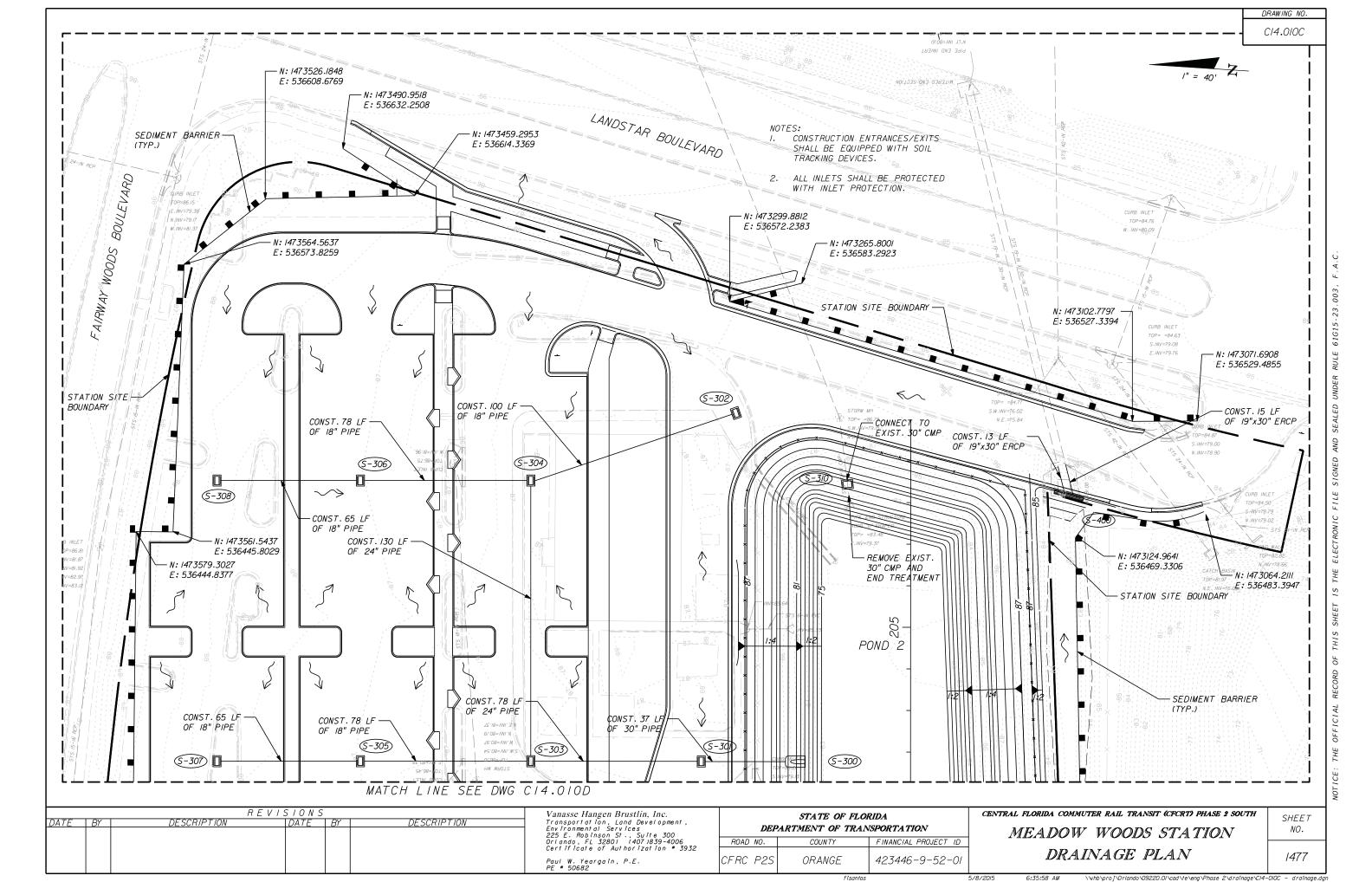


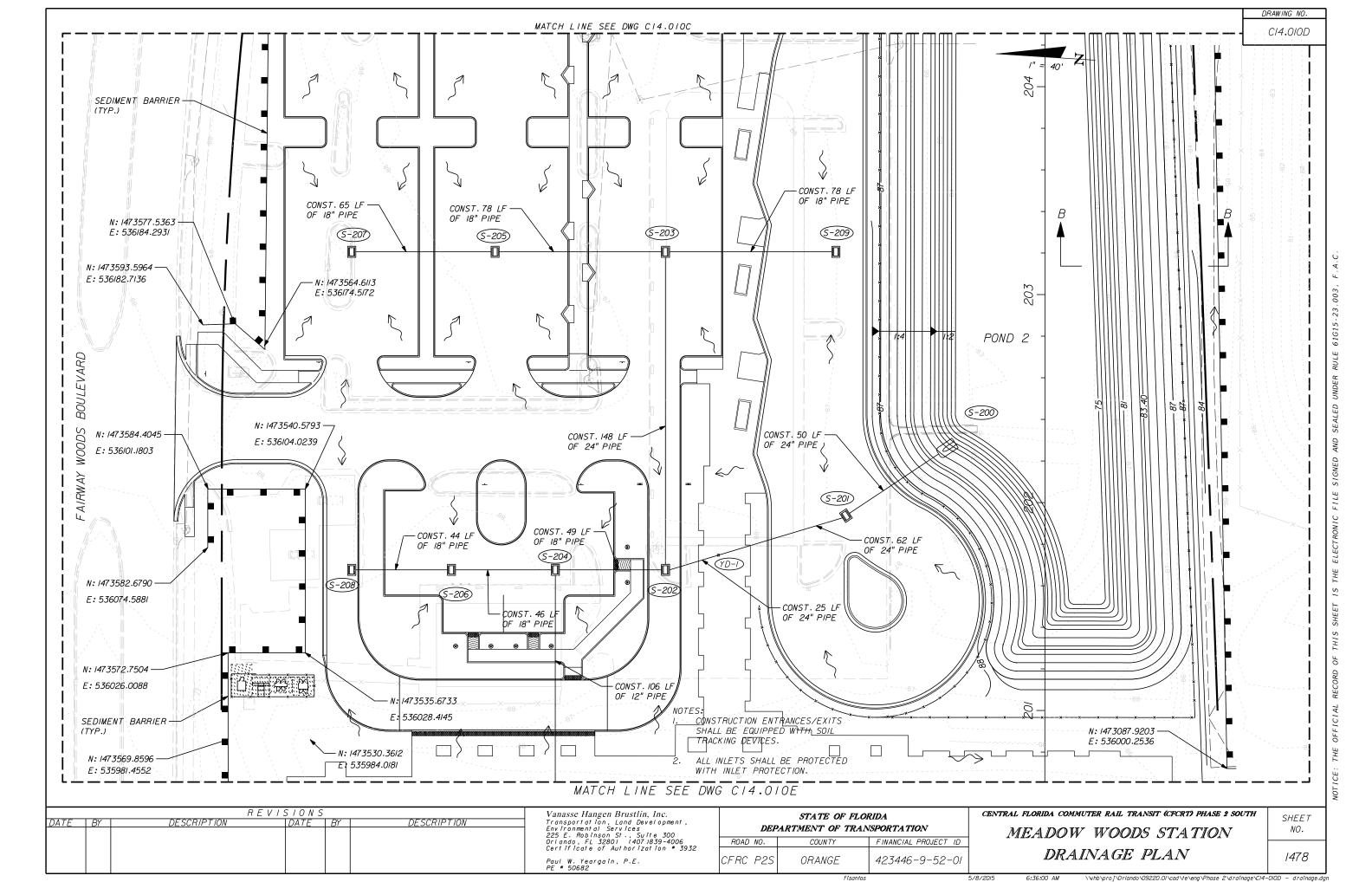


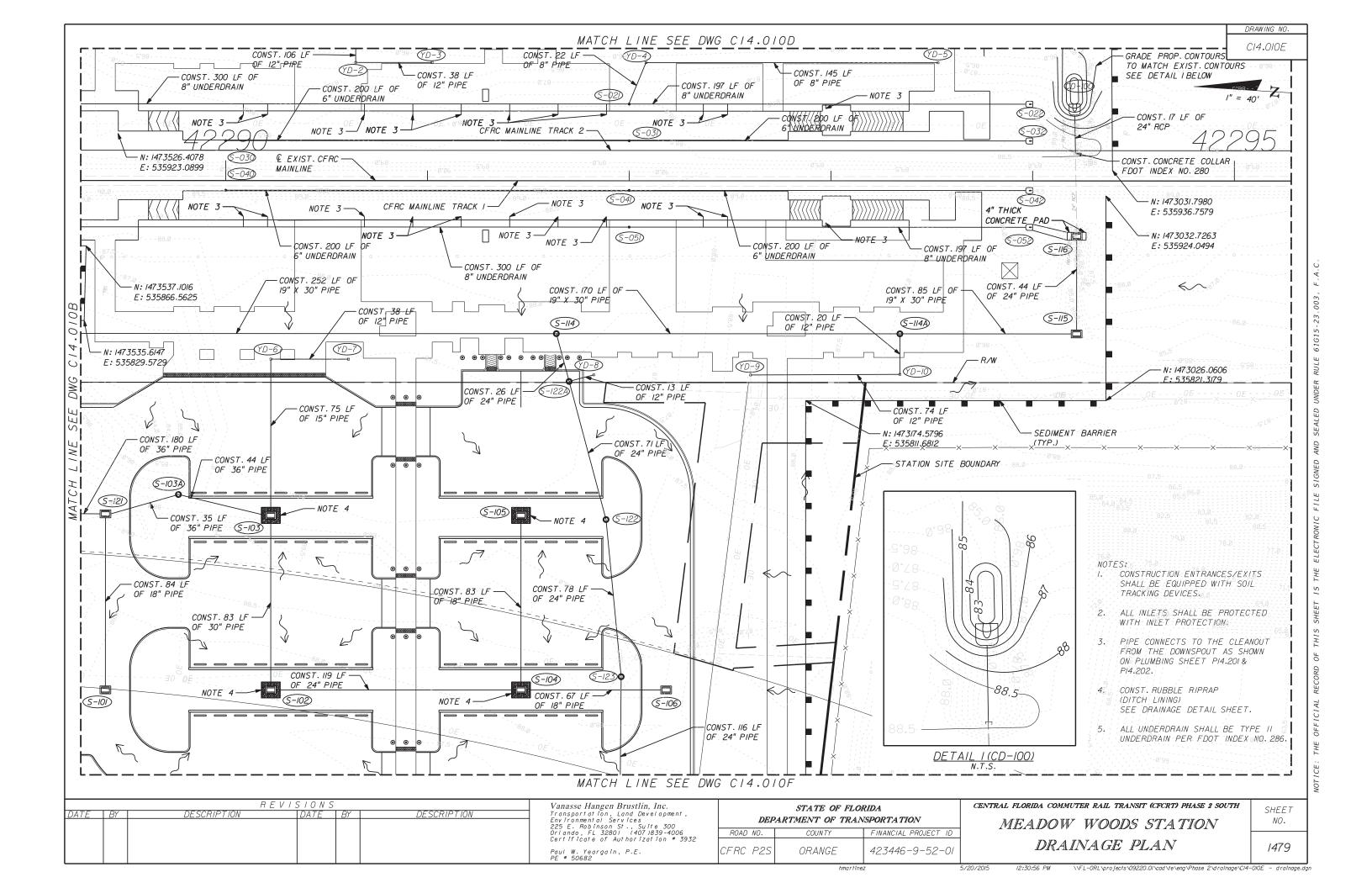


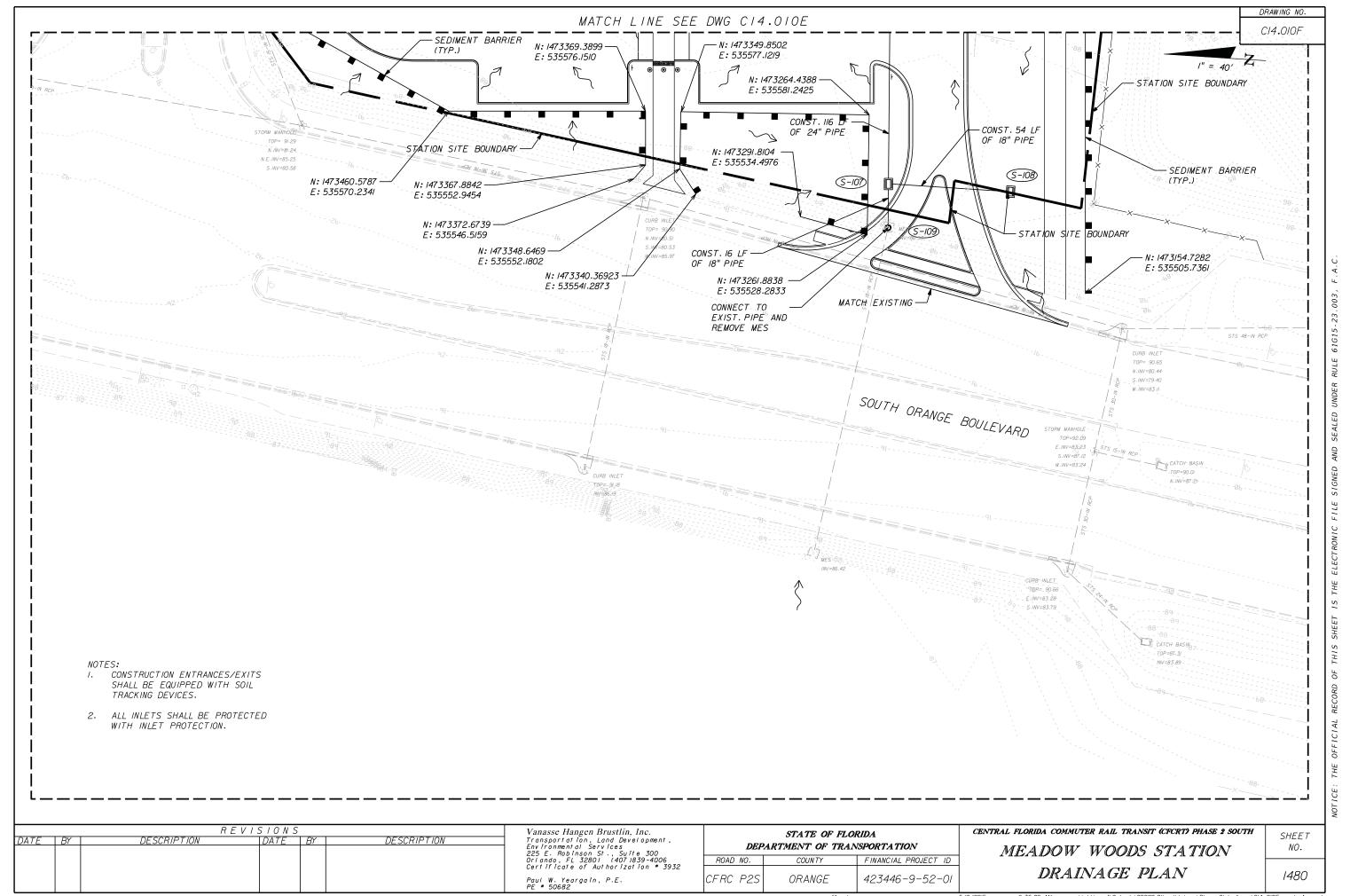


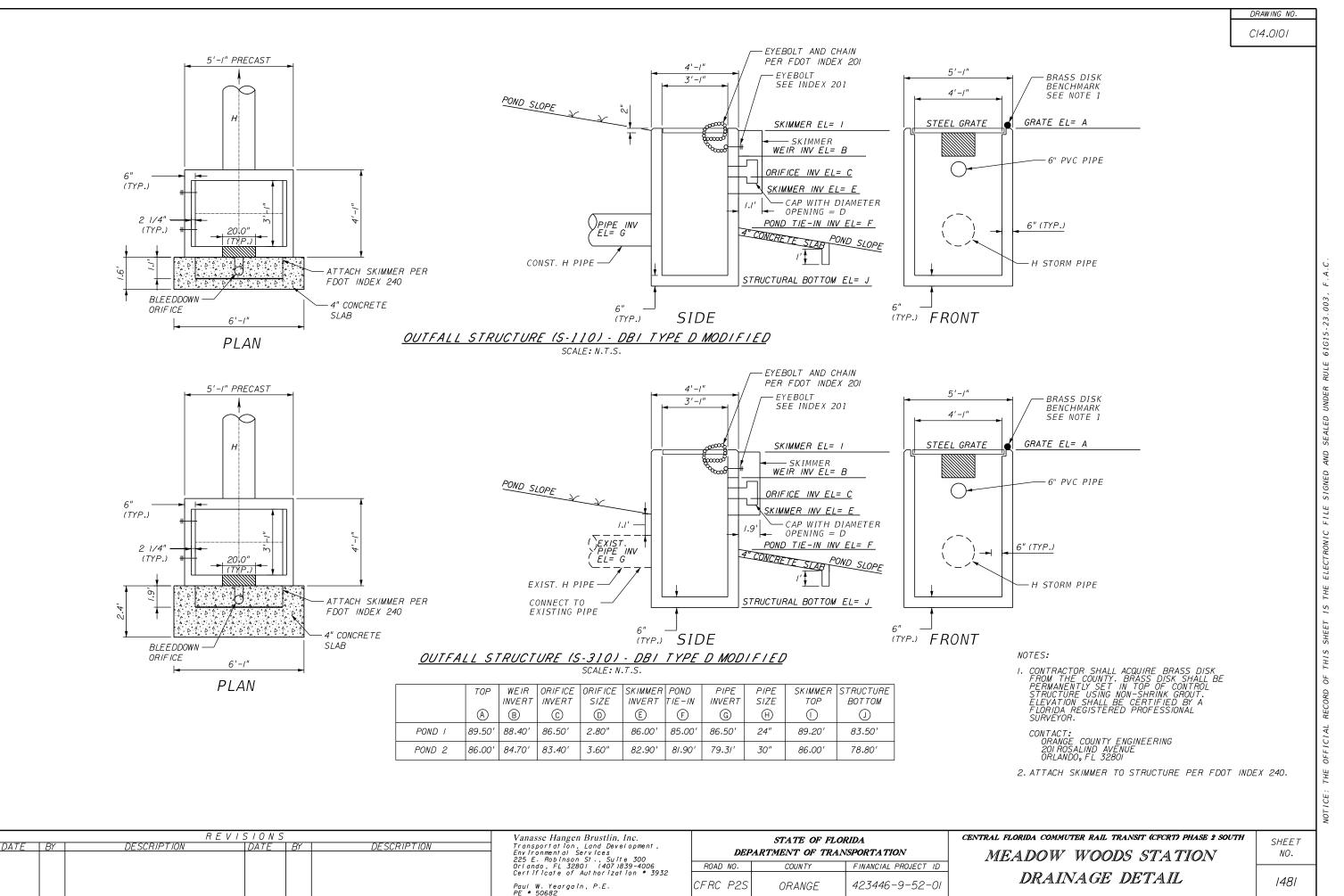




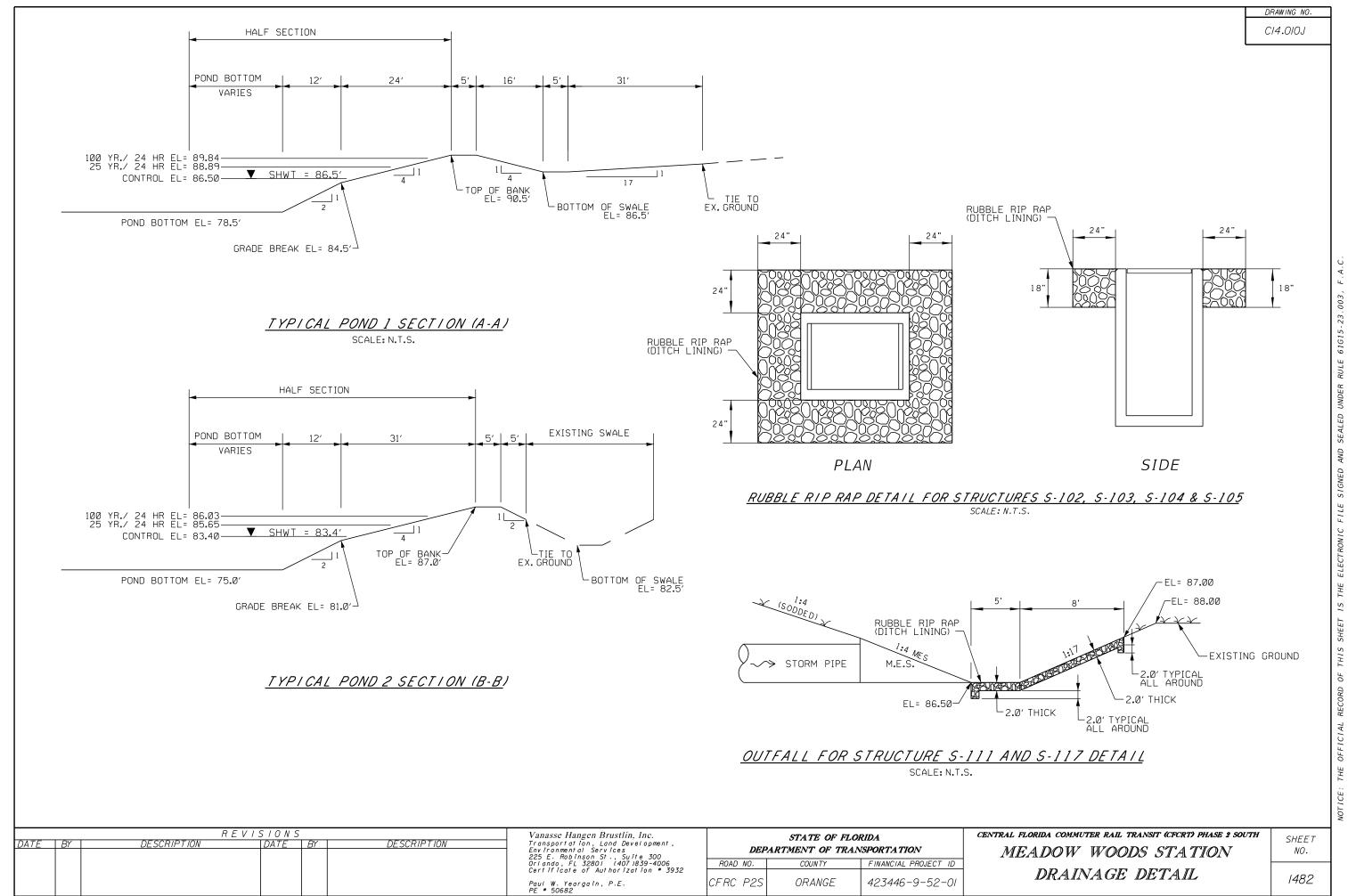








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CI4.OIOK

(S-100) N: 1473705.7016 E: 535724.2459 CONST. MES (1:2) (36") INDEX NO. 272 FL. 81.50

(5-101) N: 1473573,2980 E: 535647.5429 CONST. DBI TYPE F CONST. DBI TTPE F INDEX NO. 201, 233 TOP EL. 90.10 FL. 83.40 (E) (5-102) N: 1473431.4701 E: 535652.8523 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 89.30 FL. 84.00 (S) FL. 84.00 (E)

N: 1473437.0709 E: 535739.1708 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 89.30 FL. 81.75 (W) FL. 83.50 (W) FL. 83.50 (E)

(S-103A) N: 1473483.4228 E: 535746.5332 CONST. MH TYPE J-8 INDEX NO. 200, 201 TOP EL. 90.10 FL. 81.70 (N) FL. 81.70 (S)

(\$-104) N: 1473307.7303 E: 535660.8812 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 89.40 FL. 84.15 (N) FL. 86.95 (S) FL. 85.80 (E)

(5-105) N: 1473313.3319 E: 535747.2000 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 89.4Ó FL. 86.00 (W) FL. 86.00 (SE)

(5-106) N: 1473235.8814 E: 535665.5432 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 90.10 FL. 87.10 (N) (5-107) N: 1473251.8771 E: 535550.9912 CONST. DBI TYPE F
CONST. CONCRETE COLLAR
INDEX NO. 201, 233, 280
TOP EL. 90.10
FL. 83.80 (E)
FL. 83.80 (S)

(\$-108) N: 1473194.3928 E: 535551.1094 CONST. DBI TYPE F

(\$-109) N: 1473250.7313 E: 535530.5315 CONST. MH TYPE P-8 TOP EL. 90.80 FL. MATCH EXIST, 86.53 (W) FL. 83.85 (E)

(5-110) N: 1473991.6770 E: 535762.5426 CONST. MODIFIED DBI TYPE D SEE DRAINAGE DETAIL SHEET INDEX NO. 201, 232 TOP EL. 89.50 FL. 86.50 (E)

(5-119)

(5-111) N: 1473992.7972 E: 535783.7929 CONST. MES (1:4) (24") INDEX NO. 272 FL. 86.45

(5-112) N: 1473728.4101 E: 535810.7134 CONST. MES (1:4) (19" X 30") INDEX NO.272 FL. 86.50

(5-113) (5-114) N: 1473301.6352 E: 535838.1994 CONST. MH TYPE P-8 N: 1473554.4265 E: 535821.9186 CONST. MH TYPE P-8 INDEX NO. 200, 201 INDEX NO. 200, 201 TOP EL. 88.30 FL. 83.80 (N) TOP EL. 91.06 FL. 83.48 (N) FL. 83.48 (W) FL. 83.80 (S) FL. 83.48 (S)

(S-114A) N: 1473131.7071 E: 535849.1435 CONST. MH TYPE P-8 INDEX NO. 200, 201 TOP EL. 90.46 FL. 83.30 (N) FL. 83.30 (W) FL. 83.30 (S)

(5-115) N: 1473044.2689 E: 535854.7749 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.70 FL. 83.20 (E) FL. 83.20 (N) (S-116) N: 1473047.3785 E: 535903.0563 CONST. DBI TYPE F CONST. 12" WIDE SLOT EL. 84.99 (N)& EL. 84.57 (S) INDEX NO. 200, 233 TOP EL. 86.50 FL. 83.12 (E) FL. 83.12 (W)

(5-117) N: 1474377.9602 E: 535762.9948 CONST. MES (1:4)(24") INDEX NO. 272 FL. 85.45

N: 1474372.5733 E: 535681.1411

CONST. MH TYPE P-8 INDEX NO. 200, 201 TOP EL. 90.05 FL. 85.55 (E) FL. 85.55 (S)

(\$-120) N: 1474201.2198 E: 535662.4815 CONST. MH TYPE P-8 INDEX NO. 200, 201 TOP EL. 90.30 FL. 85.80 (N) FL. 85.80 (S)

(5-121) N: 1474027.3813 N: 1473518.9069 E: 535734.6179 E: 535646.1433 REMOVE EXIST. MES CONST. DBI TYPE F CONST. DBI TYPE F INDEX NO. 201, 233 INDEX NO. 201, 233 TOP EL. 90.92 TOP EL. 90.40 FL. 81.67 (N) FL. 86.00 (N) FL. 81.67 (S) FL. 85.90 (W) (MATCH EXIST.) FL. 83.17 (W)

(5-122) N: 1473271.1108 E: 535747.8575 CONST. MH TYPE P-8 INDEX\_NO. 200, 201 TOP EL. 90.40 FL. 83.58 (E) FL. 83.58 (W)

N: 1473293.7881 E: 535814.9746 CONST, MH TYPE P-8 INDEX NO. 200, 201 TOP EL. 90.05 FL. 83.51(E) FL. 83.51(W) FL. 83.80 (S)

N: 1473258.5767 E: 535670.6204 CONST. MH TYPE P-8 CONST. MH TYPE P INDEX NO. 200, 201 TOP EL. 90.40 FL. 83.67 (E) FL. 83.67 (W)

(5-200) N: 1473234.1802 E: 536143.6915 CONST. MES (1:2) (24") INDEX NO. 272 FL. 79.40

(\$-20) N: 1473278.7446 E: 536109.7139 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.10 FL. 79.50 (S) FL. 81.70 (N) (5-202) N: 147 336 3.7089 N: 1473363.7089 E: 536078.0909 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 88.00 FL. 83.85 (E) FL. 84.00 (N) FL. 81.80 (S)

N: 1473373.6117

E: 536230.7121 CONST. DBI TYPE F INDEX\_NO. 201, 233 TOP EL. 87.10 FL. 84.10 (W) FL. 84.10 (N) FL. 84.30 (S)

**(**5-204) N: 1473416.5960 E: 536074.6593 CONST. DBI TYPE CONST. DBT TYPE F INDEX NO. 201, 233 TOP EL. 87.80 FL. 84.10 (S) FL. 84.10 (N)

N: 1473455.4397 N: 1473455.4397 E: 536225.4027 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.20 FL. 84.25 (N) FL. 84.25 (S)

N: 1473466.4911 E: 536071.4218 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.80 FL. 84.20 (S) FL. 84.20 (N)

(5-207) N: 1473524.2949 E: 536220.9350 CONST. DB/ TYPE F INDEX NO. 201, 233 TOP EL. 87.50 FL. 84.35 (S)

(5-208) N: 1473514.3920 E: 536068.3137 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.90 FL. 84.30 (S)

**(**-209) N: 1473291.7822 E: 536236.0217 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.00 FL. 84.45 (N) **(5-300)** N: 1473256.3319 E: 536353.3685 CONST. MES (1:2) (30") INDEX NO. 272 FL. 79.40

(5-30) N: 1473299.1411 E: 536536.8662 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 86.90 FL. 79.50 (S) FL. 81.50 (N)

N: 1473293.4265 E: 536518.9558 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 87.10 FL. 84.20 (N)

N: 1473389.7993 E: 536480.1908 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.00 FL. 83.35 (N) FL. 81.60 (S) FL. 81.60 (E)

N: 1473409.5886

E: 535965.8756

INDEX NO. 282

TOP EL FLUSH WITH SURFACE

FL. 84.43 (E)

FL. 84.43 (S)

CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE

N: 1473462.8861 E: 536340.1647 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.10 FL. 81.75 (W) FL. 84.00 (N) FL. 84.00 (S)

(S-305) N: 1473471.6272 E: 536474.8814 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 87.00 FL. 83.50 (N) FL. 83.50 (S)

(5-306) N: 1473531.7413 E: 536335.6970 CONST. DBI TYPE INDEX\_NO. 201, 233 TOP EL. 87.10 FL. 84.15 (N) FL. 84.15 (S)

(5-307) N: 1473540.4824 E: 536470.4137 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 87.00 FL. 83.60 (S)

(5-308) N: 1473299.2202 E: 536350.6552 CONST. DBI TYPE INDEX\_NO. 201, 233 TOP EL. 87.10 FL. 84.25 (S)

(5-310) N: 1473237.5802 E: 536488.2161 CONST. MODIFIED TYPE D SEE DRAINAGE DETAIL SHEET INDEX NO. 201, 232 TOP EL. 86.00 FL. 79.30 (E) (MATCH EXISTING)

(S-400) N: 1473131.0043 E: 536489.6545 CONST. HEADWALL CONST. CONCRETE COLLAR INDEX NO. 250, 280 FL. 81.20

N: 1473338.7815 E: 536086.7661 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE AND P-BOTTOM INDEX NO. 200, 282 TOP EL. FLUSH WITH SURFACE FL. 81.80 (N) FL. 81.80 (S)

(S-020) N: 1473572.3508

(YD-3) N: 1473371.8136 E: 535968.3085 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 84.56 (N)

(YD-4)N: 1473266.0179 E: 535975.1221 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 85.93 (S) FL. 85.93 (W)

(YD-5)N: 1473121.5187 E: 535984.4285 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 86.37 (N)

(YD-6) N: 1473442.0489 E: 535816.4500 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 85.00 (S) FL. 85.00 (W)

(YD-7)N: 1473403.6849 E: 5358/8.9208 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 86.00 (N)

(YD-8) N: 147.3281.81.34 N: 1473281.8134 E: 535819.0205 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 83.85 (NW) (YD-9) N: 1473204,2544 E: 535824.0156 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL, FLUSH WITH SURFACE FL. 83.60 (S)

N: 1473130,4158 E: 535829.0939 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE INDEX NO. 282 TOP EL. FLUSH WITH SURFACE FL. 83.40 (E) FL. 83.40 (N)

N: 1413512.3508 E: 535934.8101 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 86.25

N: 1473272.9711 E: 535954.0909 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 FIDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 85.80 (S) FL. 85.80 (N)

(5-022) N: 1473075.0788 E: 535966.8360 CONST. UNDERDRAIN FES (8") FDOT INDEX NO. 270 FL. 85.50

(S-030) N: 1473471.3866 N:1413411.3000 E:535923.0549 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 86.10 (5-031) N: 1473271.8001 N: 14732/1.8001 E: 535935.9090 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 85.80 (5-032) N: 1473073.9078 E: 535948.6541 CONST. UNDERDRAIN OUTLET (6") FDOT INDEX NO. 287

REVISIONSDESCRIPTION DATE BY

Vanasse Hangen Brustlin, Inc. Transportation, Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S 423446-9-52-01 ORANGE

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION DRAINAGE STRUCTURES SUMMARY

SHEET

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DRAWING NO. CI4.OIOL

(5-040)

N: 1473469.8081 E: 535898.5456 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 287 TOP EL. MATCH PROPOSED GRADE FL. 86.25

(5-041) N: 1473270.2216 E: 535911.3998 CONST. UNDERDRAIN CLEANOUT (8")
FDOT INDEX NO. 286
TOP EL. MATCH PROPOSED GRADE
FL. 85.80 (5-042) N: 1473072.3293 E: 535924.1449 CONST. UNDERDRAIN OUTLET (6")
FOOT INDEX NO. 287 FL. 85.50

(S-050) N: 1473568.4303 E: 535873.9362 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 86.25 (S-051) N: 1473269.0507 E: 535893.2180 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 85.80 (\$-052) N: 1473071.1551 E: 535905.9628 CONST. UNDERDRAIN FES (8") FDOT INDEX NO. 270 FL. 85.50

N: 1473052.3381 E: 535964.7988 CONST. MES 1:2 (24") FDOT INDEX NO. 272 FL. 83.19

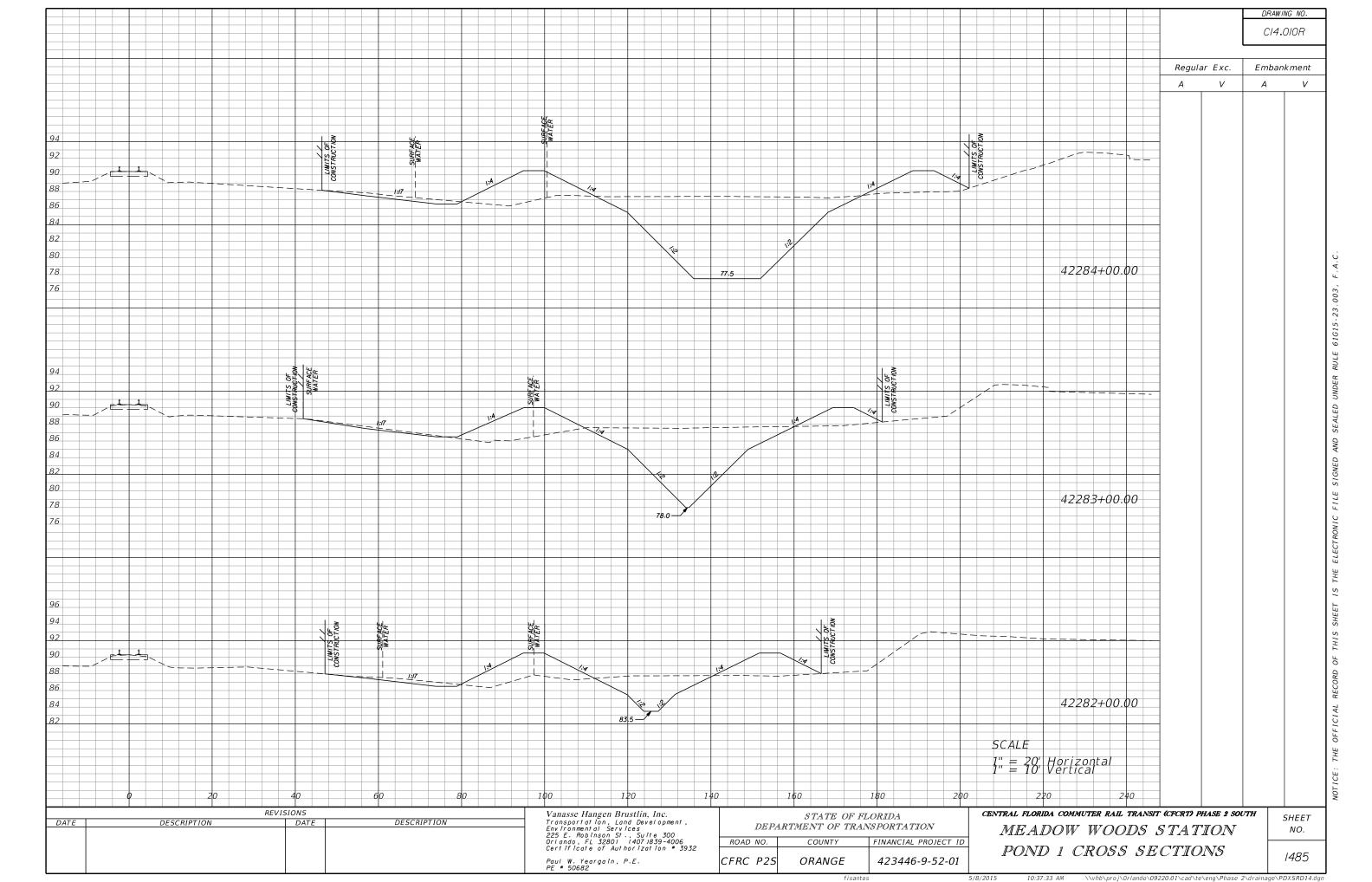
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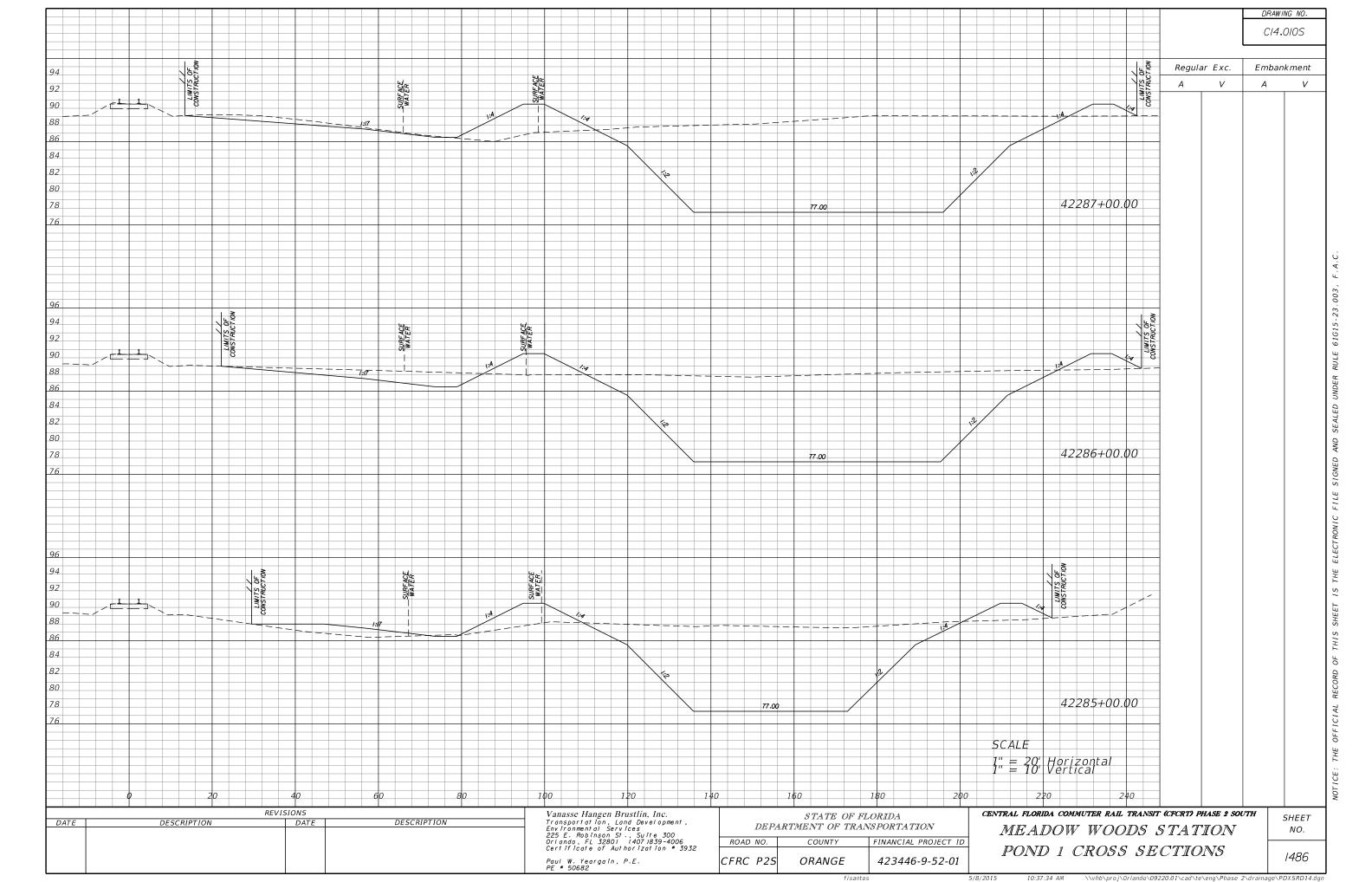
Vanasse Hangen Brustlin, Inc.
Fransportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Priando, FL 32801 (407)839-4006
Periificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

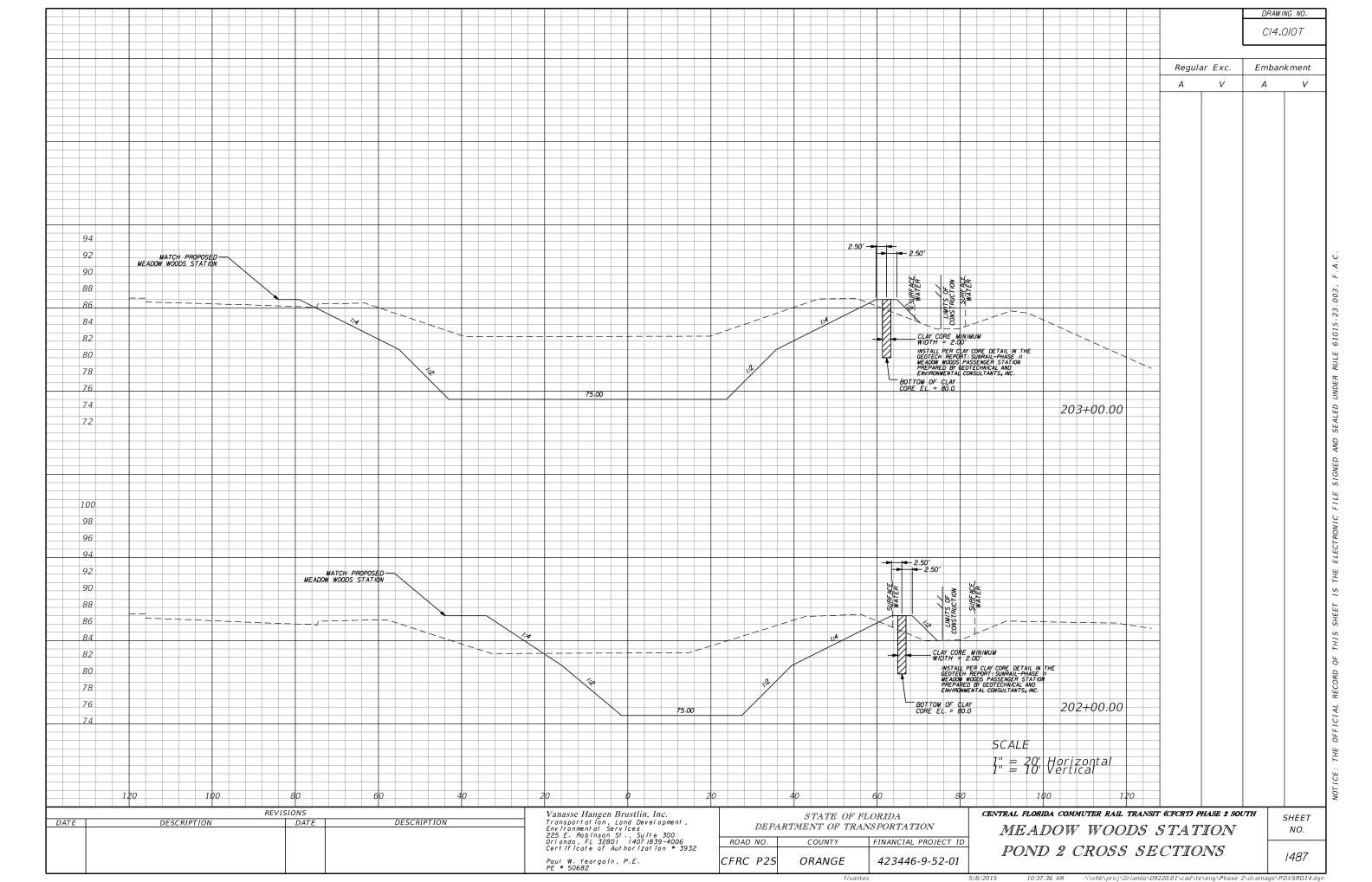
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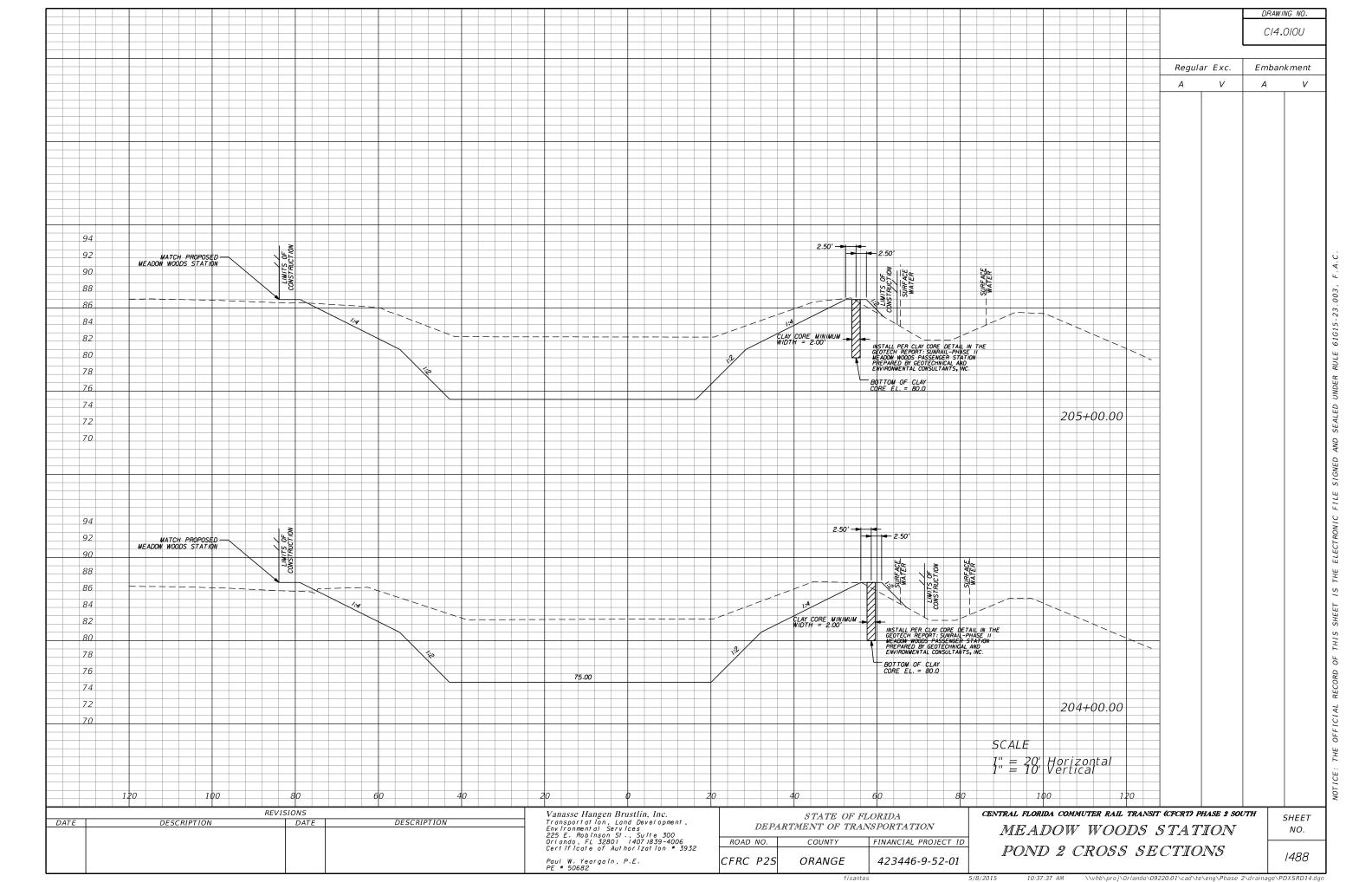
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION DRAINAGE STRUCTURES SUMMARY SHEET NO. 1484

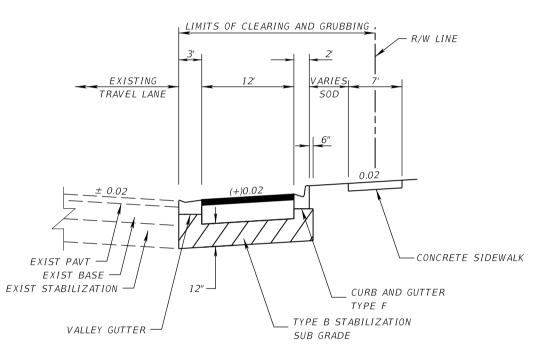
\whb\proj\Orlando\O9220.0I\cad\te\eng\Phase 2\drainage\Cl4-OlOL - Drain Struct.dgn











# TYPICAL SECTION 1 LANDSTAR BLVD RIGHT TURN LANE WIDENING STA. 16+84.00 TO STA. 18+63.86

#### WIDENING

OPTIONAL BASE GROUP 6 WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

	REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E		
						GA.		
						618		
						OR.		
						CEI		

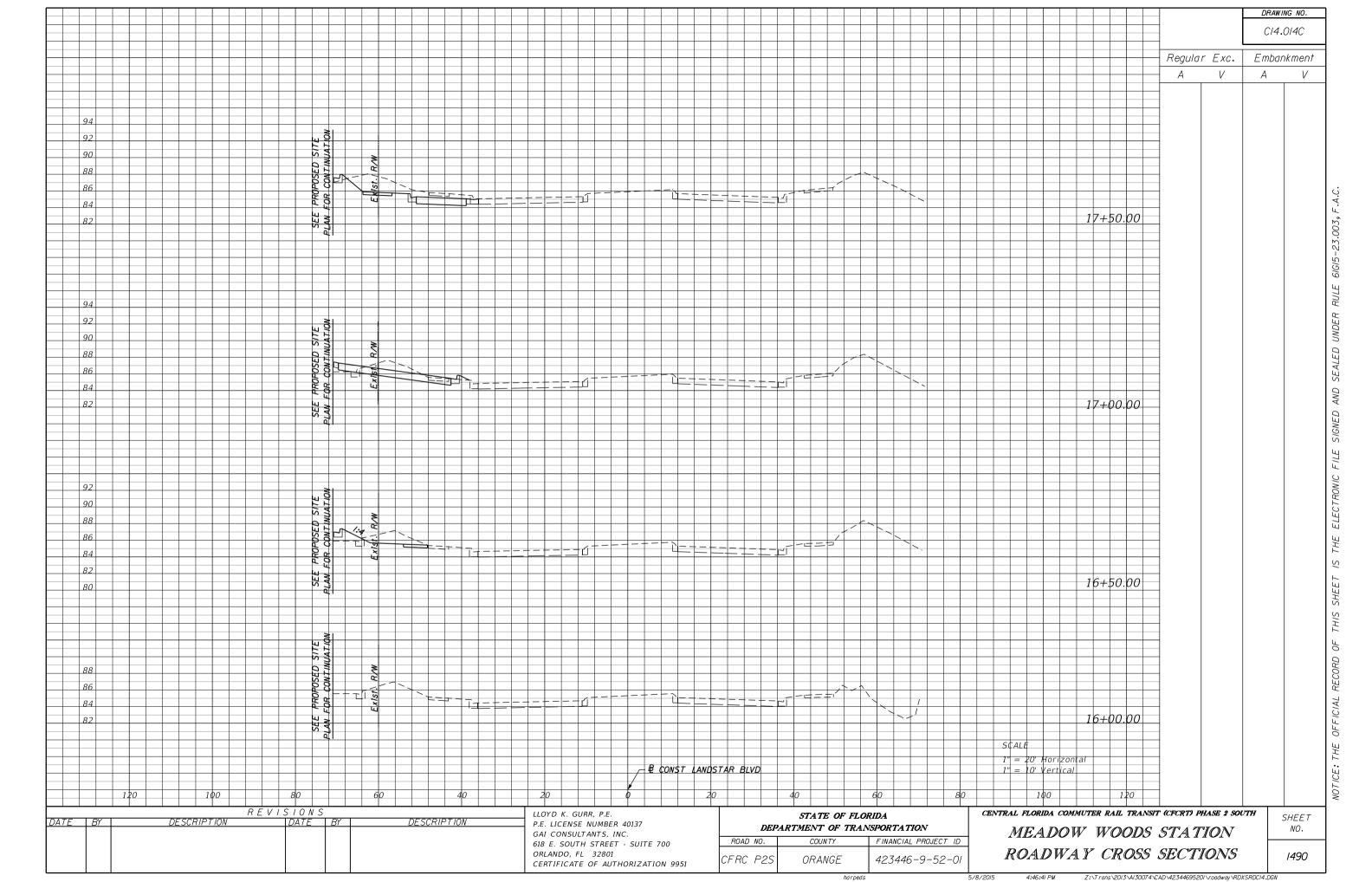
LOYD K. GURR, P.E. E. LICENSE NUMBER 40137 GAI CONSULTANTS, INC. 18 E. SOUTH STREET - SUITE 700 RLANDO, FL 32801 ERTIFICATE OF AUTHORIZATION 9951

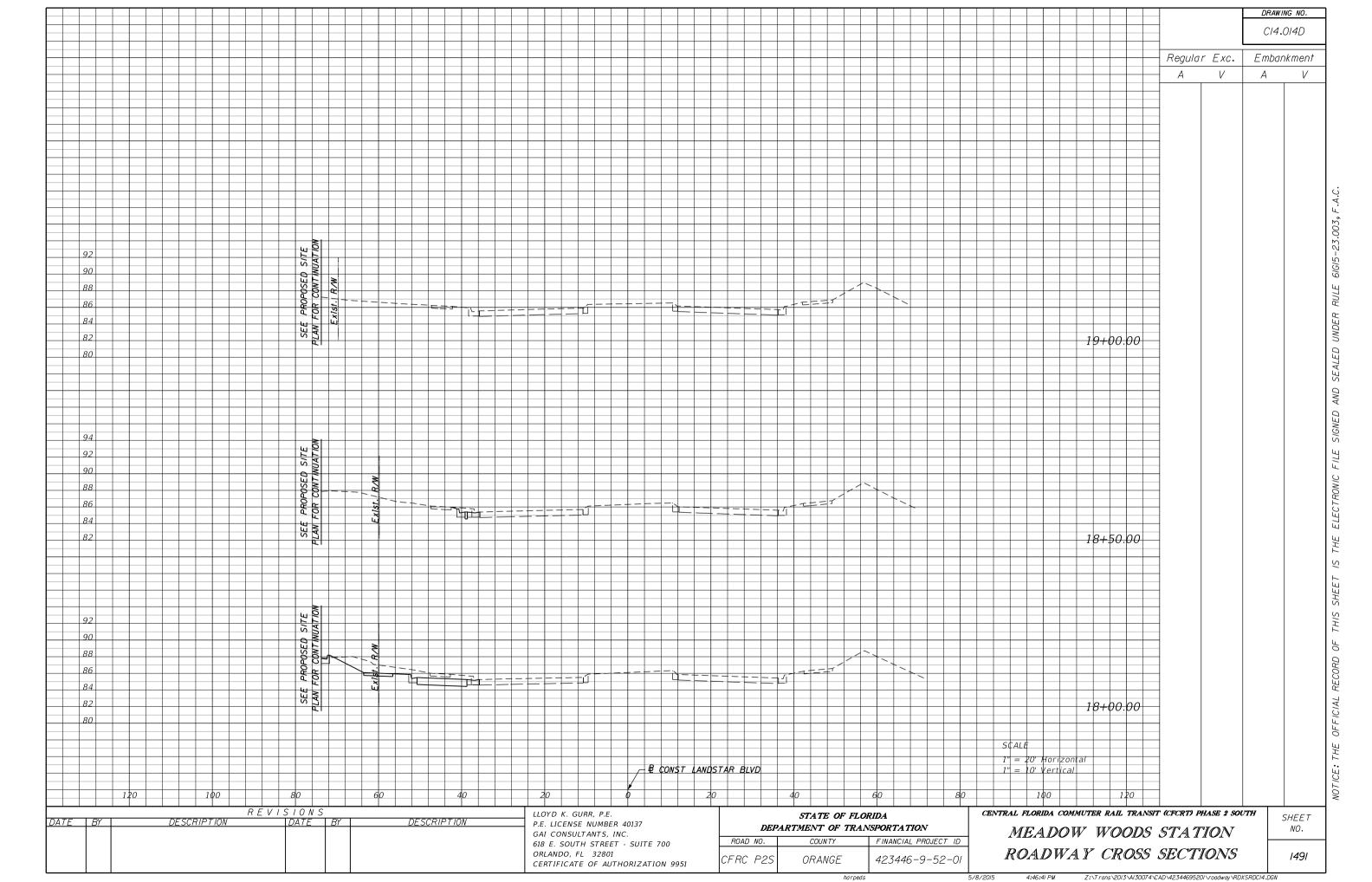
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S ORANGE 423446-9-52-01

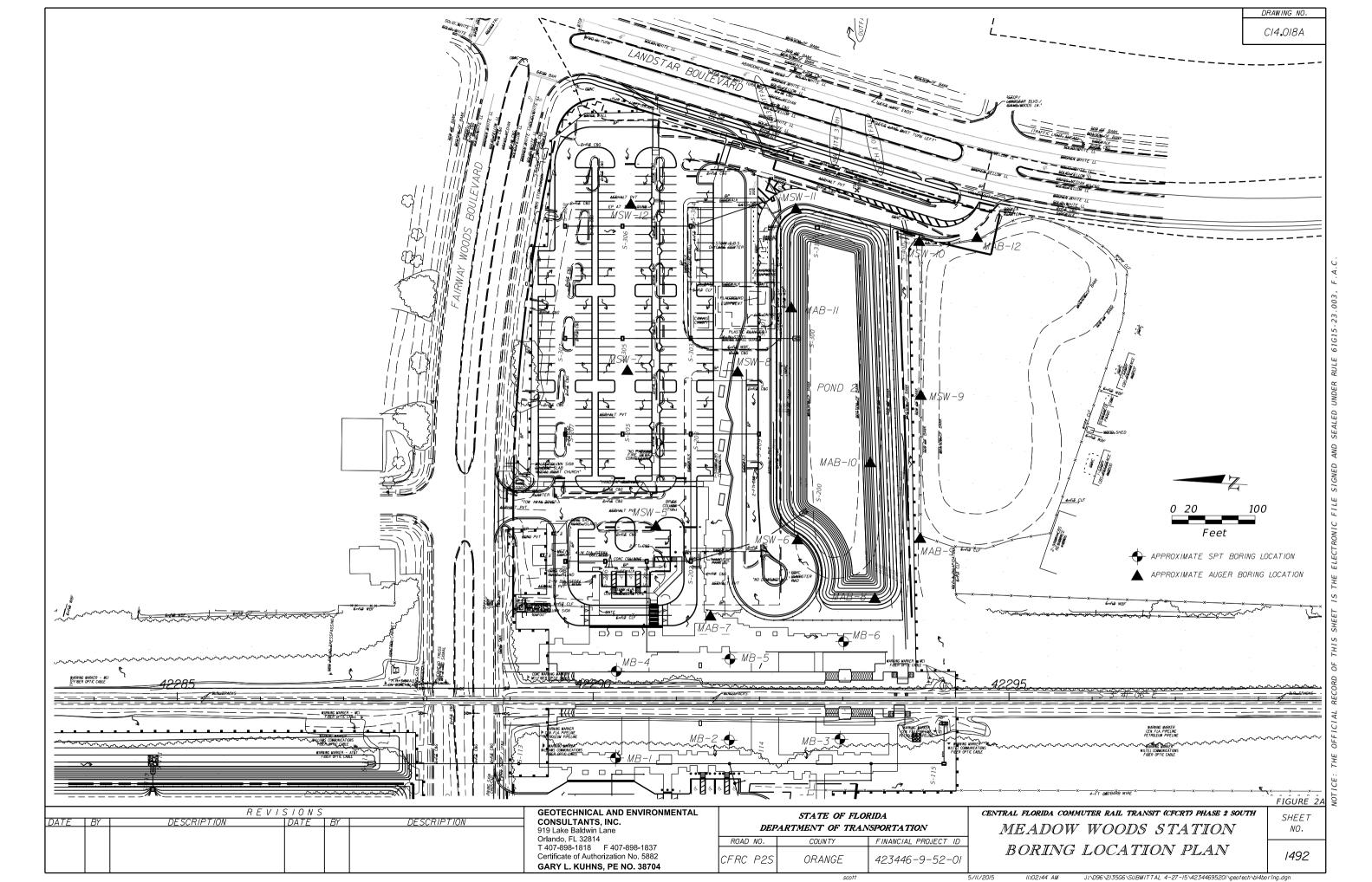
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

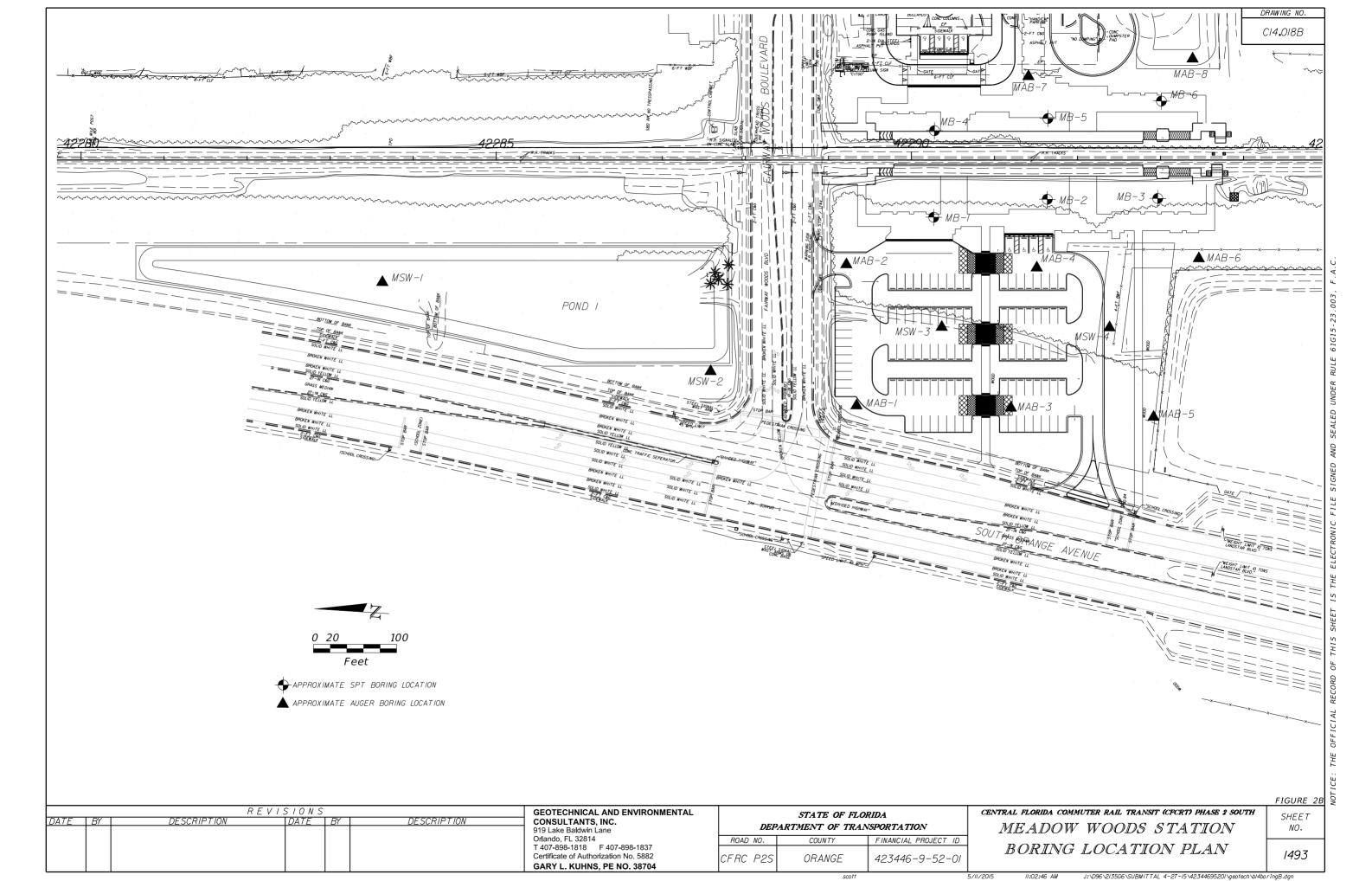
MEADOW WOODS STATION TYPICAL SECTION

SHEET NO.









STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS AND RESEARCH

DATE OF SURVEY: JUNE 2011

SURVEY MADE BY: T. ROBINSON, S. ROBINSON, D. HALL

REVISIONS

DATE BY

SUBMITTED BY: GARY L. KUHNS. P.E.

PROJECT NAME: CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT)

PHASE 2 SOUTH

MEADOW WOODS STATION

FINANCIAL PROJECT ID: 423446-9-52-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF PASSENGER STATION

DISTRICT: FIVE ROAD NO.: CFRC P2S COUNTY: ORANGE

	ORG. CONT	ANIC <u>ENT</u>	MOIS CON	TURE TENT				YSIS RES GE PAS				TERBER IMITS (>		SOIL CLASSIFICATION			CORROS IO	N TEST RE	<u>ESULTS</u>	
STRATUM NO.	NO. OF TESTS	%. ORGANIC	NO. OF TESTS	%. MOISTURE	NO. OF TESTS	IO MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO <u>GROUP</u>	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohms cm	CHLORIDE ppm	SULFATES ppm	ρH 
1	3	3-5	3	19-27	<i>1</i> 5	100-97	99-96	95-91	51-58	7-10	0	-	-	A-3	LIGHT GRAY TO BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS	5	16,000-34,000	<i>15-75</i>	<5-32	5.2-7.0
2	0	-	0	-	7	100	99	94-96	57-63	15-21	0	-	-	A-2-4	LIGHT BROWN TO DARK BROWN TO ORANGE FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND CEMENTED SANDS	4	11,000-54,000	45-75	<5-25	4.9-6.4
3	1	6	1	18	1	100	99	95	60	13	0	-	-	A-8	BROWN TO DARK BROWN MUCKY FINE SAND	0	-	_	-	_

I. SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.

2. WATER TABLE SHOWN AS 🔻 WHERE ENCOUNTERED AT TIME OF SURVEY. GNE DENOTES GROUNDWATER NOT ENCOUNTERED. ESTIMATED SEASONAL HIGH GROUNDWATER LEVELS SHOWN AS 🔽.

3. SOIL PARAMETER NOT TESTED DENOTED AS "-" ABOVE.

DESCRIPTION

4. STRATUM NOS. I AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505.

5. STRATUM NO. 2 WILL RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.

6. STRATUM NO. 3 SHALL BE TREATED AS MUCK (M) IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505, EXCEPT WHERE MARKED "TO REMAIN" ON BORING PROFILES.

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919 Lake
Orlando,
T 407 90

GEOTECHNICAL AND ENVIRONMENTAL JLTANTS, INC. Baldwin Lane , FL 32814 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 GARY L. KUHNS, PE NO. 38704

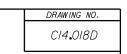
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S ORANGE 423446-9-52-01

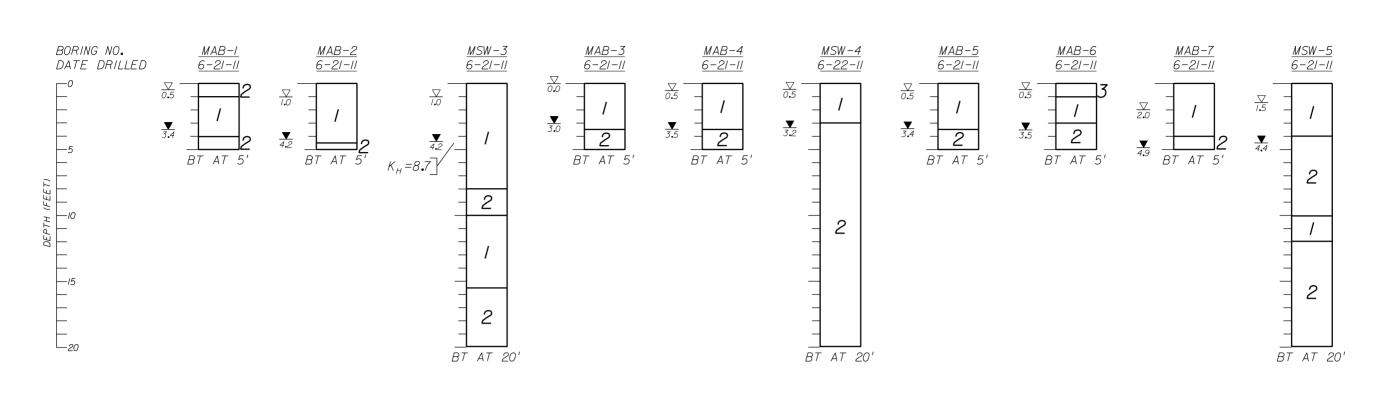
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION SOIL SURVEY

SHEET NO.

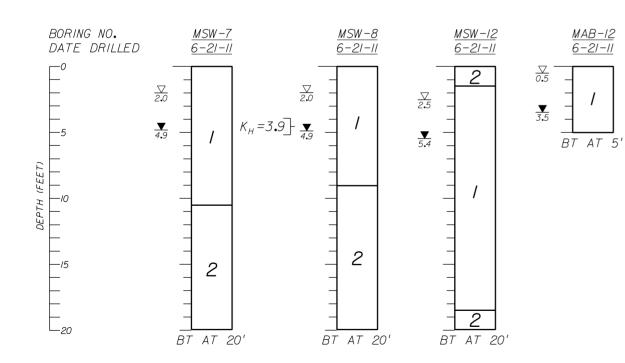
FIGURE .

1494



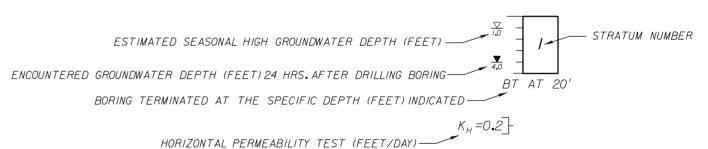


GARY L. KUHNS, PE NO. 38704



REVISIONS

# BORING LEGEND



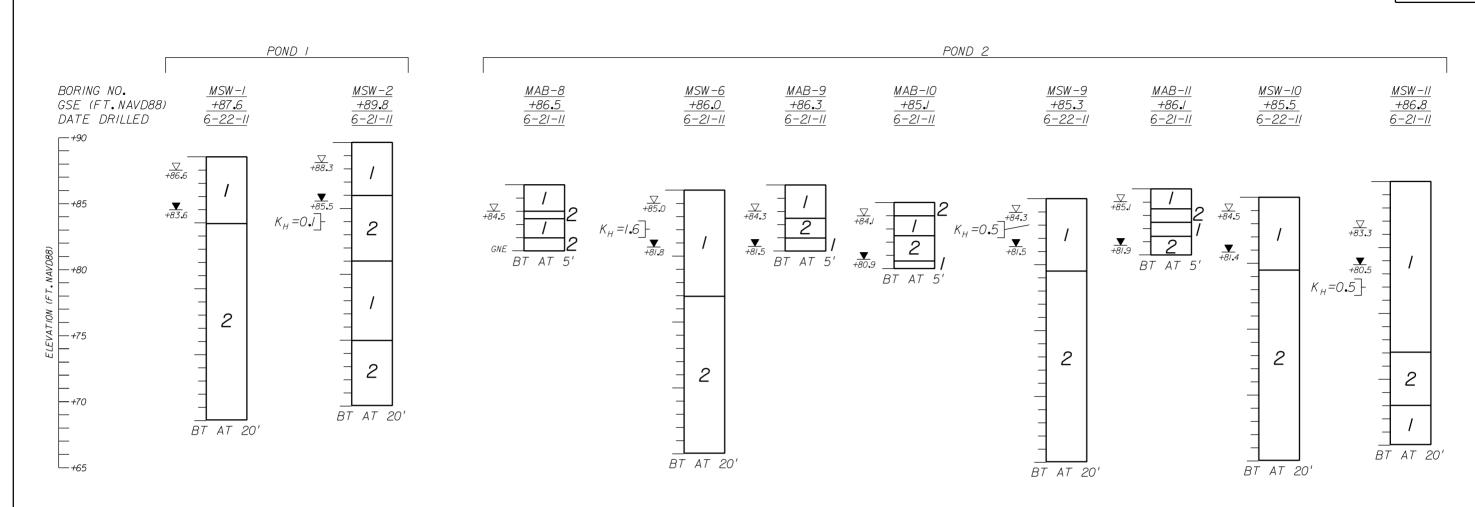
STRATUM NO.	AASHTO CLASSIFICATION	DESCRIPTION
1	A-3	LIGHT GRAY TO BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS
2	A-2-4	LIGHT BROWN TO DARK BROWN TO ORANGE FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND CEMENTED SANDS
3	A-8	BROWN TO DARK BROWN MUCKY FINE SAND

TER	RAII.	TRANSIT (CFCRT) PHASE 2 SOUTH		_
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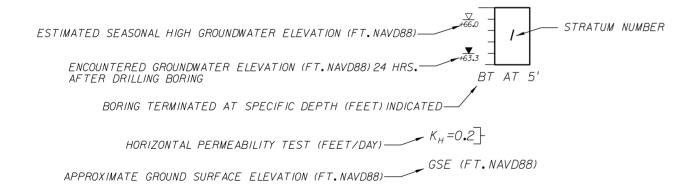
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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 Lake Baldwin Lane	DEF	STATE OF FLO PARTMENT OF TRAN		CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH	
Orlando, FL 32814	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	MEADOW WOODS STATION	
T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882	CFRC P2S	ORANGE	423446-9-52-01	ROADWAY AUGER BORING RESULTS	

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## BORING LEGEND



STRATUM NO.	AASHTO CLASSIFICATION	DESCRIPTION
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3	A-8	BROWN TO DARK BROWN MUCKY FINE SAND

FIGURE 5

SHEET

NO.

REVISIONS GEOTECHNICAL AND ENVIRONMENTAL CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH STATE OF FLORIDA CONSULTANTS, INC. DEPARTMENT OF TRANSPORTATION 919 Lake Baldwin Lane Orlando, FL 32814 MEADOW WOODS STATION ROAD NO. COUNTY FINANCIAL PROJECT ID T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 POND AUGER BORING RESULTS CFRC P2S ORANGE 423446-9-52-01

GARY L. KUHNS, PE NO. 38704

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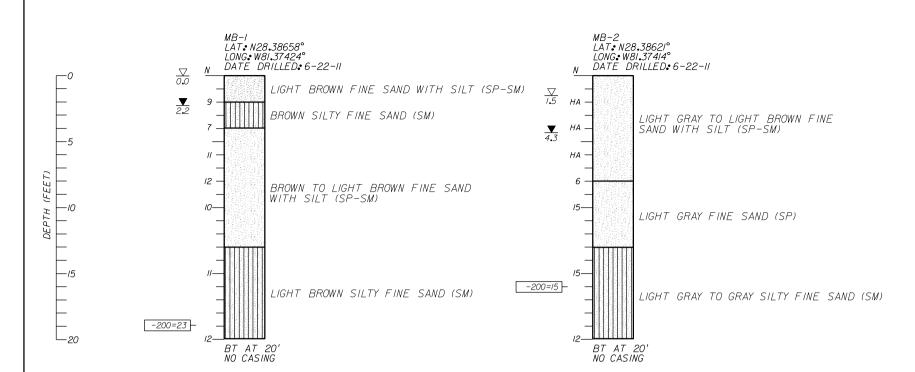
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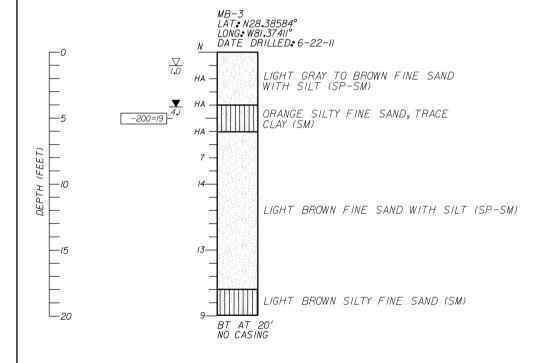
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SOILS LEGEND

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SAND AND SILT





REVISIONS

DATE BY

LEGEND

 $\frac{\nabla}{1.5}$  ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FEET)

 $\P$  ENCOUNTERED GROUNDWATER DEPTH (FEET) 24 HRS. AFTER 4.3 DRILLING BORING

N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT

HA HAND AUGERED FOR UTILITY CLEARANCE

(SP) UNIFIED SOIL CLASSIFICATION SYMBOL

BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED

-200 = PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)

## GENERAL NOTES

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORING ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

BORING LOCATIONS WERE NOT SURVEYED. BORINGS WERE LOCATED BY GPS SUB-METER ACCURACY UNITS (TRIMBLE GEOXT 2005 SERIES).

BASED ON A REVIEW OF THE U.S. GEOLOGICAL SURVEY MAP ENTITLED "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND VICINITY, FLORIDA, SEPTEMBER 2008" FOR THE PROJECT AREA, THE MAXIMUM ELEVATION OF THE ARTESIAN HEAD IS ESTIMATED TO BE APPROXIMATELY +54 FT. NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +54 FT. NGVD.

SPLIT SPOON SAMPLER: INSIDE DIAMETER: 1.375 IN. OUTSIDE DIAMETER: 2.0 IN. AVERAGE HAMMER DROP: 30 IN. HAMMER WEIGHT: 140 LBS. HAMMER TYPE: SAFETY (MANUAL)

SECTION: 24 TOWNSHIP: 24 SOUTH RANGE: 29 EAST

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

WITH RELATIVE DENSITY AND CONSISTENCY OF SUIL							
GRANULAR SOILS	N-VALUE (blows per foot)	RELATIVE DENSITY					
SANDS	0-4 4-10 10-30 30-50 OVER 50	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE					
NON-GRANULAR SOILS	N-VALUE (blows per foot)	CONSISTENCY					
SILTS, CLAYS, MUCK, PEAT	0-2 2-4 4-8 8-15 15-30 0VER 30	VERY SOFT SOFT FIRM STIFF VERY STIFF HARD					

F IGURE

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION PLATFORM SPT BORING RESULTS

SHEET NO. 1497

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S ORANGE 423446-9-52-01

GEOTECHNICAL AND ENVIRONMENTAL

CONSULTANTS, INC.

Orlando, FL 32814 T 407-898-1818 F 407-898-1837

Certificate of Authorization No. 5882

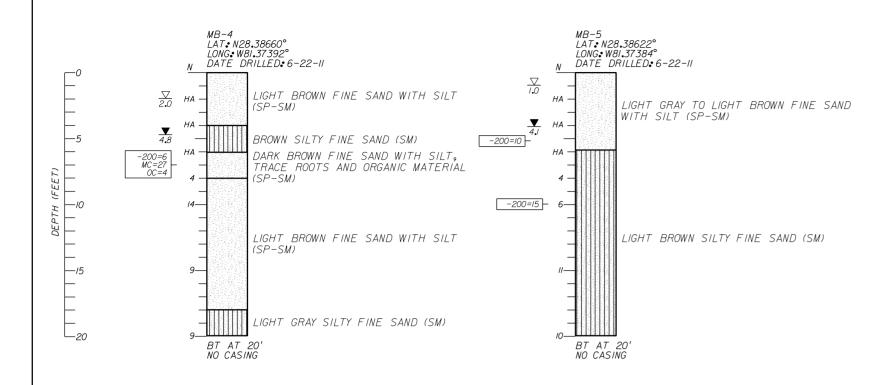
GARY L. KUHNS, PE NO. 38704

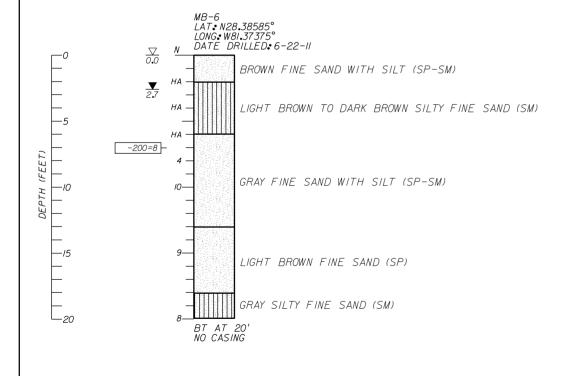
919 Lake Baldwin Lane

SOILS LEGEND

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REVISIONS

DATE BY

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 $\frac{\nabla}{2.0}$  ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FEET)

▼ ENCOUNTERED GROUNDWATER DEPTH (FEET) 24 HRS. AFTER 4.8 DRILLING BORING

N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT

HA HAND AUGERED FOR UTILITY CLEARANCE

(SP) UNIFIED SOIL CLASSIFICATION SYMBOL

BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED

-200 = PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)

MC= PERCENT NATURAL MOISTURE CONTENT (FM 1-T 265)

OC = PERCENT ORGANIC CONTENT (FM I-T 267)

## GENERAL NOTES

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FIGURE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

CFRC P2S ORANGE 423446-9-52-01

GEOTECHNICAL AND ENVIRONMENTAL

CONSULTANTS, INC.

T 407-898-1818 F 407-898-1837

Certificate of Authorization No. 5882

GARY L. KUHNS, PE NO. 38704

919 Lake Baldwin Lane

Orlando, FL 32814

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

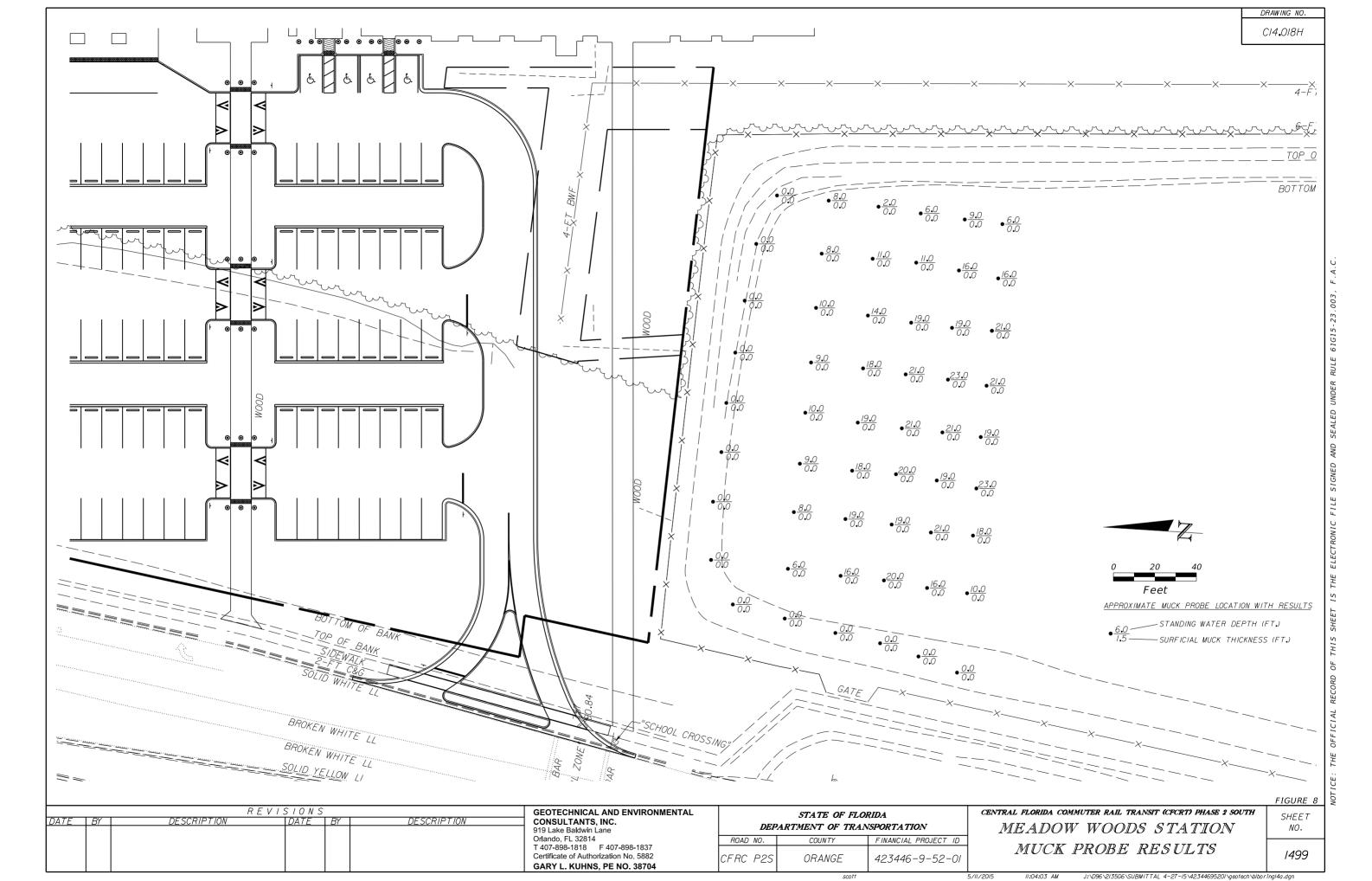
MEADOW WOODS STATION
PLATFORM SPT BORING RESULTS

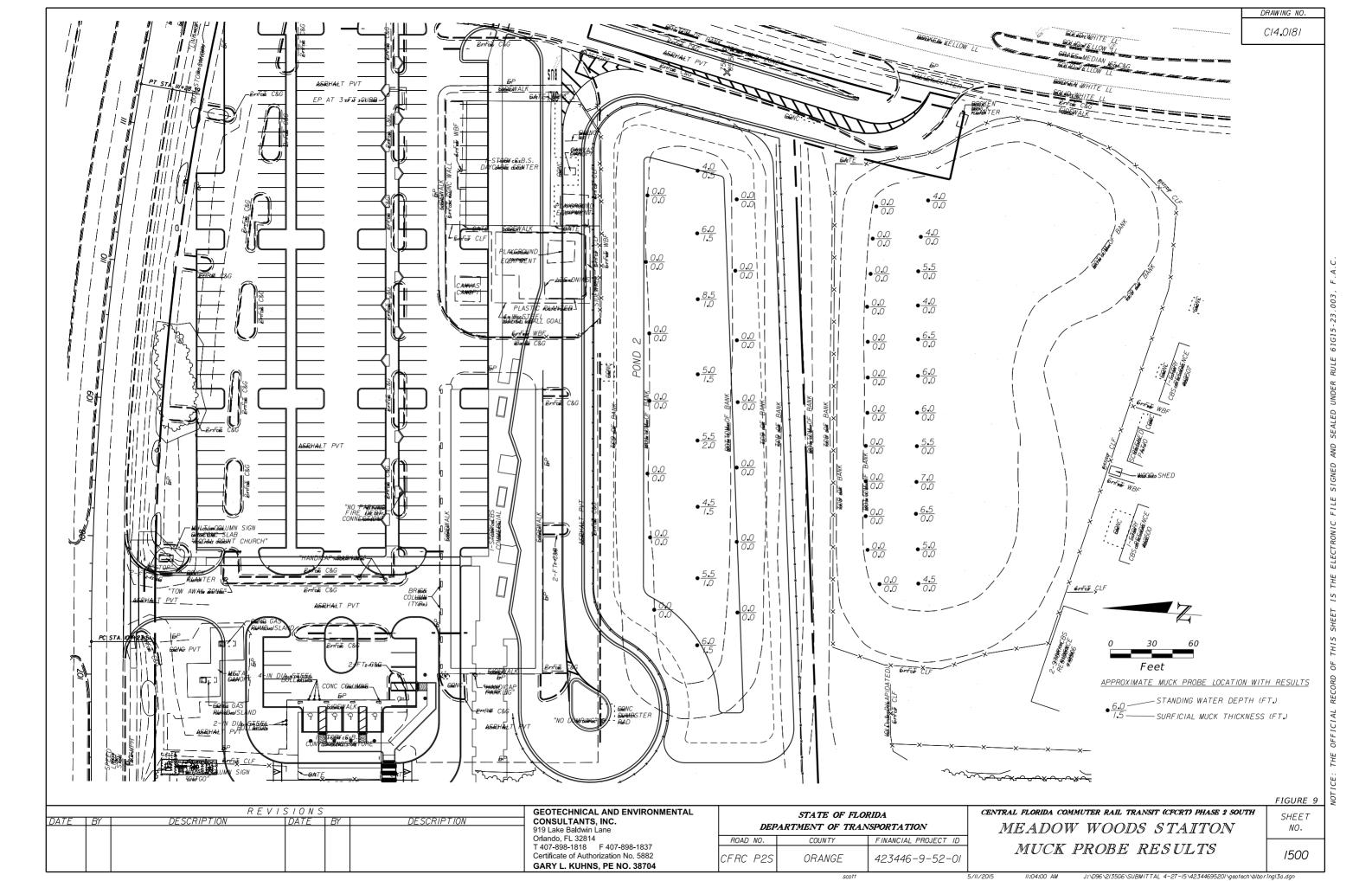
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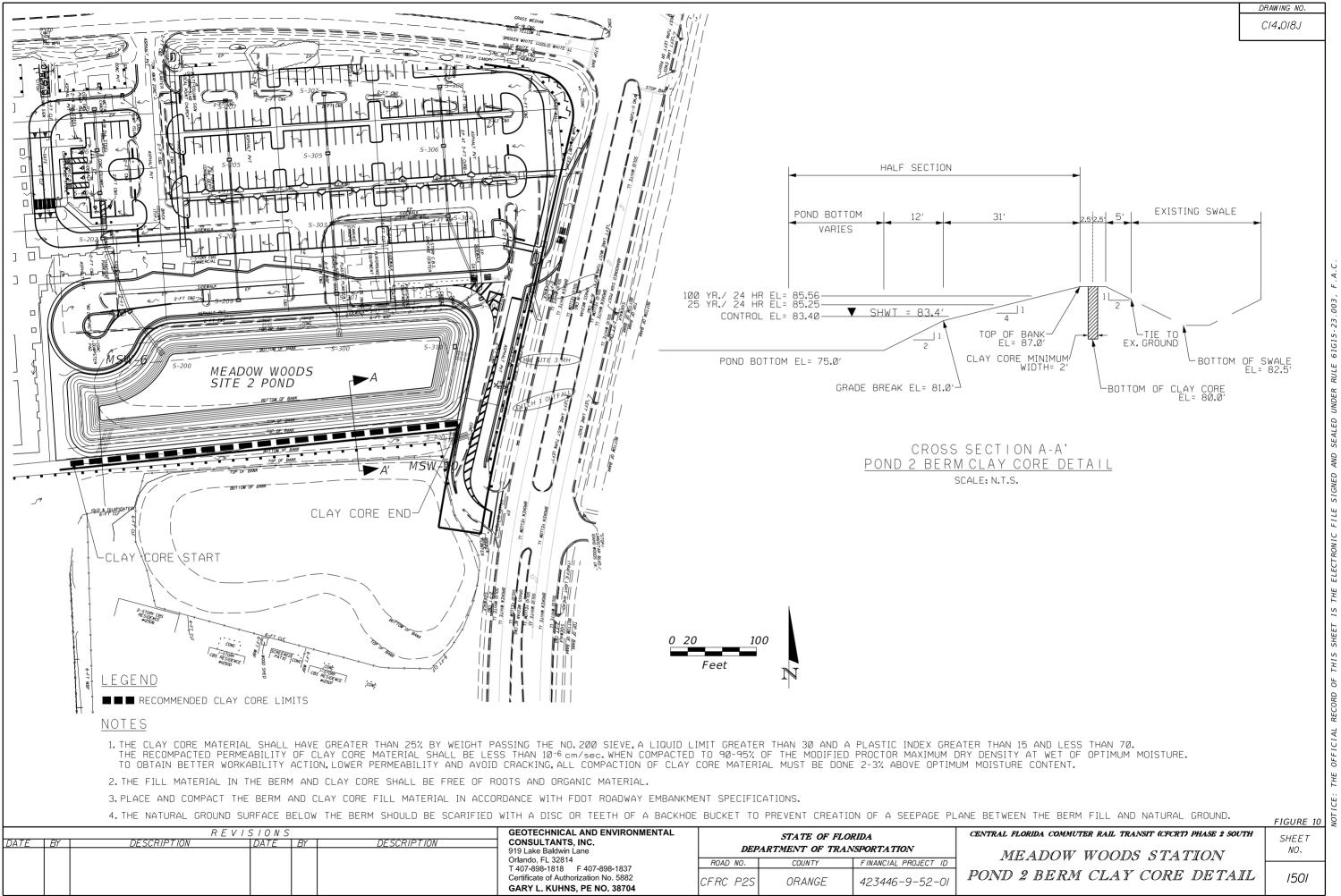
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# STORM WATER POLLUTION PREVENTION PLAN: COMMUTER RAIL TRANSIT MEADOW WOODS STATION ORANGE COUNTY, FLORIDA

- I. SITE DESCRIPTION:
- (I) NATURE OF CONSTRUCTION ACTIVITY:
  THE PROJECT IS LOCATED WITHIN ORANGE COUNTY, FLORIDA. THIS PROJECT INVOLVES
  THE NEW CONSTRUCTION OF A COMMUTER RAIL TRANSIT STATION IN THE SOUTHEAST
  QUADRANT OF THE INTERSECTION OF FAIRWAY WOODS BLVD & LANDSTAR BLVD.
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
  THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A
  DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE
  SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
  THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL
  VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER. APPLICABLE
  EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD
  INDEXES. THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR
  ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION
  OF ALL ADDITIONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR.
- (3) GENERAL NOTES:
  - (a) ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
  - (b) INSTALL STAKED SILT FENCE WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED AND DITCH BLOCKS DURING CONSTRUCTION.
  - (c) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
  - (d) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
  - (e) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EYENTS.
  - (f) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS ESTABLISHED.
- (4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 20.81 ACRES (PROJECT AREA = ROADWAY R/W). THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 20.81 ACRES (DISTURBED PROJECT AREA = DISTURBED ROADWAY R/W).

- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE
  THE SOILS WITHIN THE PROJECT LIMITS INCLUDE BAYSINGER FINE SAND DEPRESSIONAL, POMELLO FINE SAND,
  ST JOHNS FINE SAND, SMYRNA FINE SAND, BASINGER FINE SAND DEPRESSIONAL IS CHARACTERIZED AS
  VERY POORLY DRAINED AND IS GENERALLY CLASSIFIED AS A-3 OR A-2-4 SELECT MATERIAL. POMELLO FINE SAND
  IS CHARACTERIZED AS MODERATELY WELL DRAINED AND IS GENERALLY CLASSIFIED AS A-3 SELECT MATERIAL.
  ST JOHNS FINE SAND IS CHARACTERIZED AS POORLY DRAINED AND IS GENERALLY CLASSIFIED AS A-3 SELECT
  MATERIAL. SMYRNA FINE SAND IS CHARACTERIZED AS POORLY DRAINED AND IS GENERALLY
  CLASSIFIED AS A-3 OR A-2-4 SELECT MATERIAL.

- (7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:
  BASIN
  POND I
  9.09AC
  0.102%
  POND 2
  11.72AC
  0.620%
  (a) SITE MAP: INCLUDED WITH THE ROADWAY SHEETS
  - (b) DRAINAGE MAP: INCLUDED WITH THE ROADWAY SHEETS
- (8) RECEIVING WATERS: SWALES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE TRACT AS TEMPORARY SEDIMENT BASINS. THE OUTFALL STRUCTURES ARE TO BE PLUGGED.
  - (a) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.
  - (b) THE ON-SITE RUNOFF IS CONVEYED THROUGH PROPOSED TRACK SIDE SWALES TO TWO PROPOSED STORMWATER PONDS AND WILL DISCHARGE TO AN EXISTING STORM SEWER SYSTEM ALONG LANDSTAR BLVD. WHICH DRAINS TO AN EXISTING STORMWATER SYSTEM.
  - (c) THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAY.
- (9) THE ONLY OUTFALL THAT IS 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS IS THE SHINGLE CREEK RIVER.
- (10) THERE ARE NO WETLAND IMPACTS FOR THIS PROJECT.
- (II) AREAS SHOWN FOR WETLAND AND OSW INCLUDE AREAS WITHIN ROW, CONSTRUCTION IMPACTS AND TEMPORARY CONSTRUCTION IMPACTS AND MAY INCLUDE AREAS OUTSIDE ROW. TEMPORARY CONSTRUCTION IMPACT AREAS LOCATED SOLELY OUTSIDE ROW ARE IDENTIFIED AS TEMPORARY IMPACT AREAS WITH NO ADDITIONAL INFORMATION.
- (12) DESCRIPTION OF STORM WATER MANAGEMENT: (EXISTING/PROPOSED)
  - (a) PRESENTLY, THE EXISTING DRAINAGE PATTERNS ARE TYPICALLY OVERLAND FLOW AND IT THEN DRAINS INTO EXISTING ONSITE CONVEYANCE SWALES THAT ARE ROUTED TO AN ADJACENT OFFSITE WETLAND. FOR PROPOSED CONDITIONS, ON-SITE FLOWS ARE MANAGED BY TWO WET DETENTION PONDS. THE EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED WITH BYPASS SECONDARY STORMWATER SYSTEMS TO THE ADJACENT OFFSITE WETLAND.
  - (b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
  - (c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.
  - (d) THE STORM WATER SHALL BE CONVEYED TO ONE OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES.

		R E V	Vanasse Hangen Brustlin, Inc.			
ΤΕ	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Transportation, Land Development,
						Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization * 3932
						Paul W. Yeargain, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID							
CFRC P2S	ORANGE	423446-9-52-01							

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

MEADOW WOODS STATION

SWPPP PLAN

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EROSION AND SEDIMENT CONTROLS

- (I) WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE PROJECT ENGINEER UPON THE OBSERVATION THAT THE WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS SHALL BE DESIGNATED BY THE ENGINEER. THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29NTU'S ABOVE BACKGROUND). MONITORING OF WATER QUALITY SHALL BE CONDUCTED A MINIMUM OF TWICE DAILY FOR ANY EARTHWORK ACTIVITIES WITHIN THE IMPROVEMENT AREA. MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM THE CENTER OF THE STREAM, ONE (I) UPSTREAM OF THE ACTIVITY AND ONE (I) DOWNSTREAM OF THE EROSION CONTROL DEVICES, BUT WITHIN THE PROJECT RIGHT-OF-WAY. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES REEVALUATED BY THE FDOT REPRESENTATIVE PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29NTU'S ABOVE BACKGROUND). WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- (2) STABILIZATION PRACTICES STABILIZATION MEASURES, SUCH AS PERFORMANCE SODDING OR SEEDING OF SIDE SLOPES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE SHALL THE TIME BE GREATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES.
- (3) STRUCTURAL PRACTICES INCLUDE:
  - (a) SEDIMENT BARRIERS
  - (b) STAKED TURBIDITY BARRIERS
  - (c) FLOATING TURBIDITY BARRIERS
  - (d) SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
  - (e) INLET PROTECTION SYSTEMS
- (4) SILT FENCE LOCATIONS:
  - (a) SILT FENCE SHALL BE USED ALONG THE PERIMETER OF THE PROJECT WHERE THE EXISTING GROUND SLOPES AWAY FROM THE RIGHT-OF-WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. SILT FENCES SHALL BE INSTALLED AS DITCH BLOCKS TO AVOID DOWNSTREAM SILTATION. SILT FENCES SHOULD ONLY BE USED IF:
    - (I) WETLANDS OR WATERS OF THE U.S. ARE INVOLVED
  - (2) IF UNDISTURBED VEGETATION OUTSIDE LIMITS OF CONSTRUCTION ARE NOT ADEQUATE TO FILTER RUNOFF.
    (b) STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.

  - (c) SILT FENCE SHALL BE USED AROUND PROPOSED DITCH BOTTOM INLETS.
- (5) INLET PROTECTION LOCATIONS:

GENERALLY, INLET PROTECTION SHALL BE INSTALLED FOR THE PURPOSE OF CONTROLLING SILTATION AT CURB AND GUTTER INLETS WHERE ONE CAN NOT DRIVE A STAKE.

(6) CONSTRUCTION ENTRANCES/EXITS:

SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED FOR BOTH ON-SITE AND OFF-SITE LOCATIONS OF STOCKPILED OR EXCAVATED MATERIAL. IF IMMEDIATELY ADJACENT TO A PUBLIC ROADWAY. THE ENGINEER SHALL BE RESPONSIBLE FOR MODIFYING THE SYSTEM OR PROCEDURES AS NEEDED.

- (7) TURBIDITY BARRIER LOCATION:
  - (a) STAKED TURBIDITY BARRIER IS TO BE USED AT ALL OF THE EXISITING CROSS DRAINS OUTFALLS; AND AREAS WHERE PERMANENT WATER BODIES ARE LESS THAN 3 FEET DEEP.
  - (b) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS.
  - (c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF SOILS HAVE BEEN ACHIEVED

III. OTHER CONTROLS:

DRAWING NO.

C14.012B

(I) WASTE DISPOSAL

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON-SITE.

(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

- (2) OFF-SITE VEHICLE TRACKING WILL BE CONTROLLED BY THE FOLLOWING METHODS:
  - (A) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES
  - EXCESS DIRT ON ROAD WILL BE REMOVED DAILY

(3) FEDERAL, STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

ARMY CORPS OF ENGINEERS, SOUTH FLORIDA WATER MANAGEMENT DISTRICT (ERP), FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (NPDES), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (ERP).

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE THE FDOT WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT DISTRICT FIVE HAZARDOUS MATERIAL COORDINATOR AT (386) 943-5000.

### IV. MAINTENANCE

- (1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED.
- (2) THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED IMMEDIATELY.
- (3) STRUCTURAL PRACTICES BUILT UP SEDIMENT WILL BE REMOVED FROM STAKED SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE-HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. ROCK BAGS SHALL BE REPLACED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STAKED SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

## V. INSPECTION:

- (I) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.
- (2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAY'S AND WITHIN TWENTY FOUR (24) HOURS OF THE END OF A STORM EVENT OF AT LEAST 0.5 INCHES OR GREATER

## VI. TRACKING AND REPORTING:

- (I) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.
- (3) THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT(# 650-040-03), FOR DAILY INSPECTIONS.

REVISIONSVanasse Hangen Brustlin, Inc. Transportation, Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization \* 3932 DATE BY DESCRIPTION Paul W. Yeargain, P.E. PE \* 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S 423446-9-52-01 ORANGE

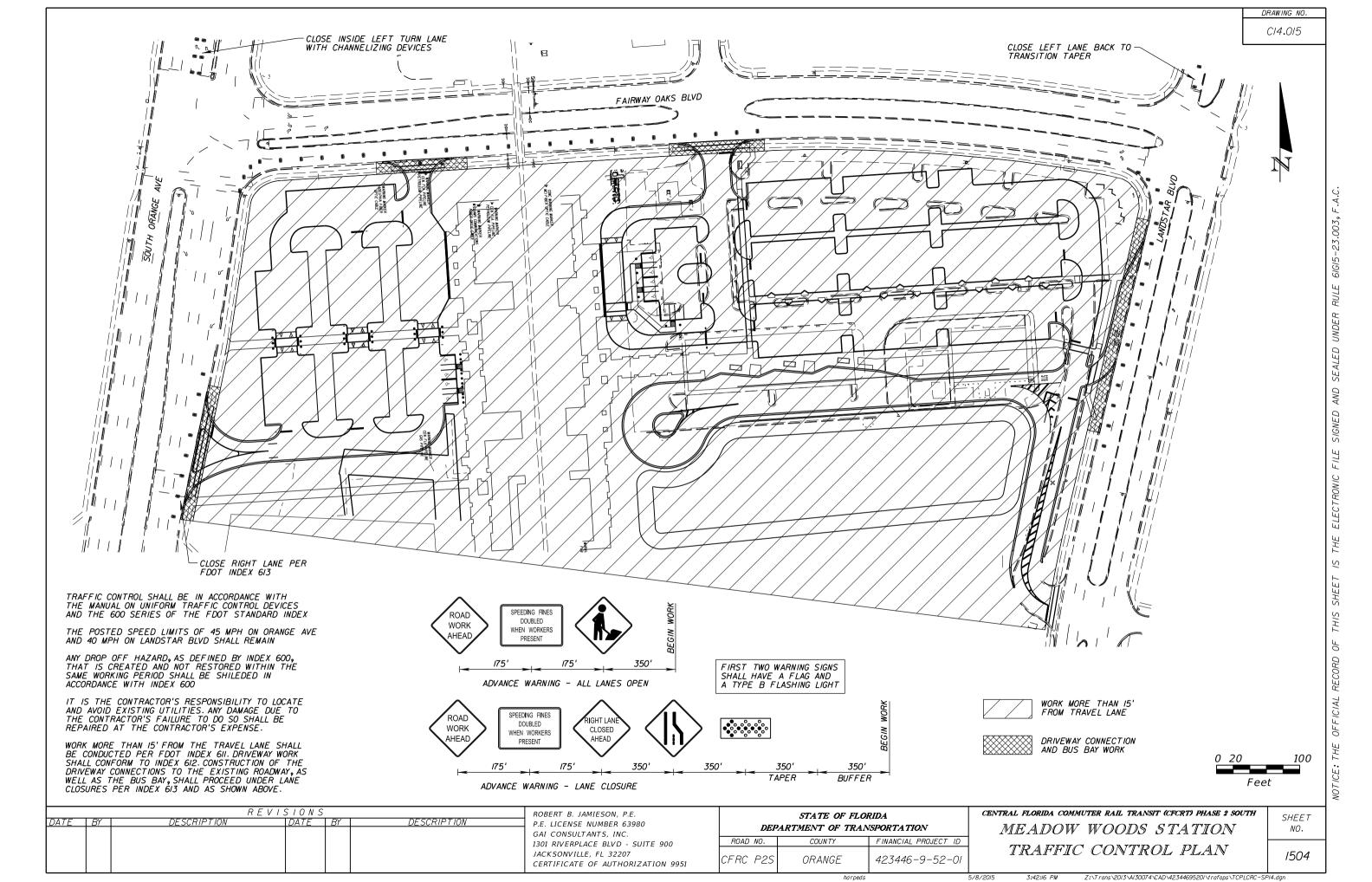
MEADOW WOODS STATION SWPPP PLAN

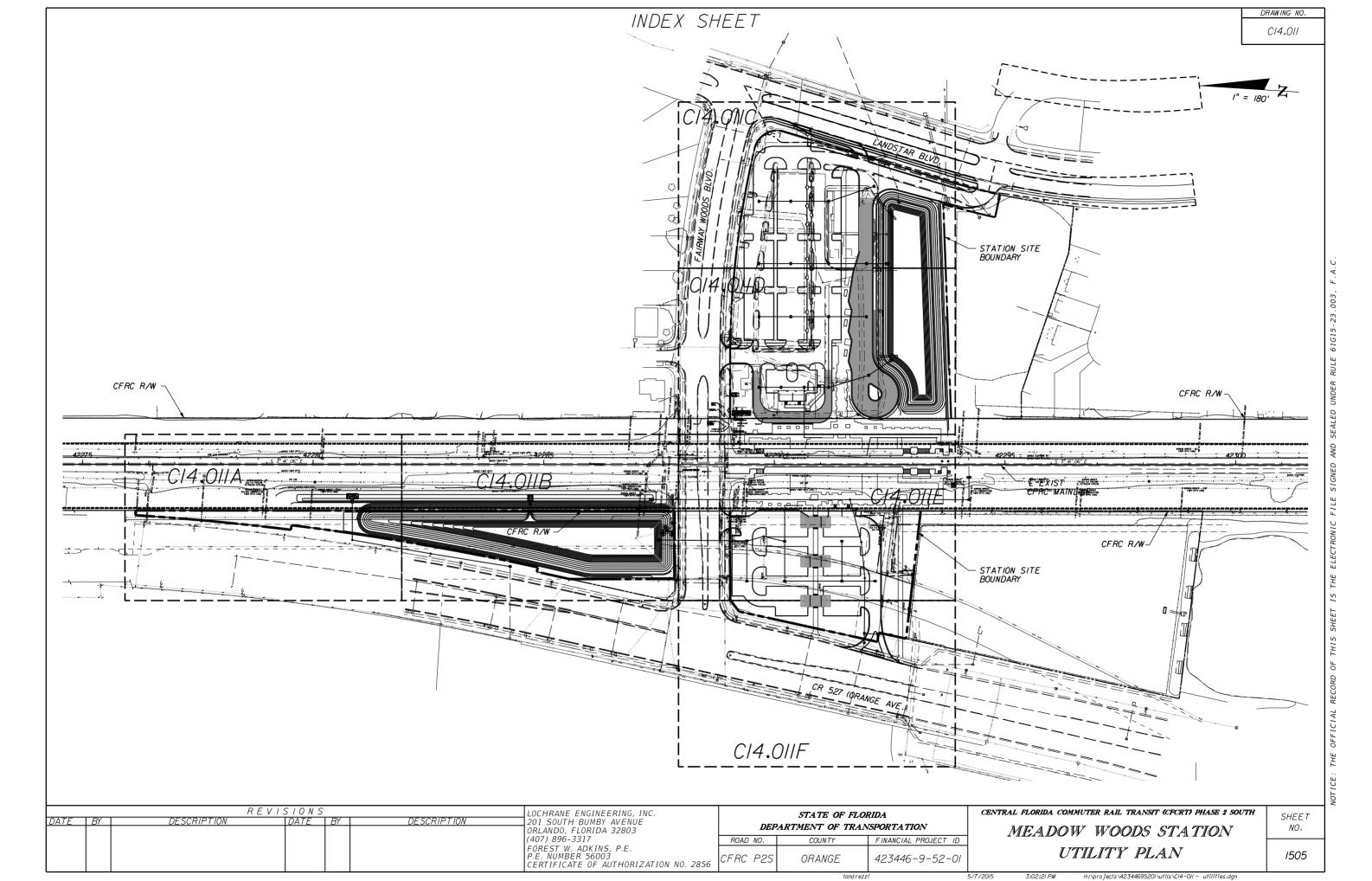
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

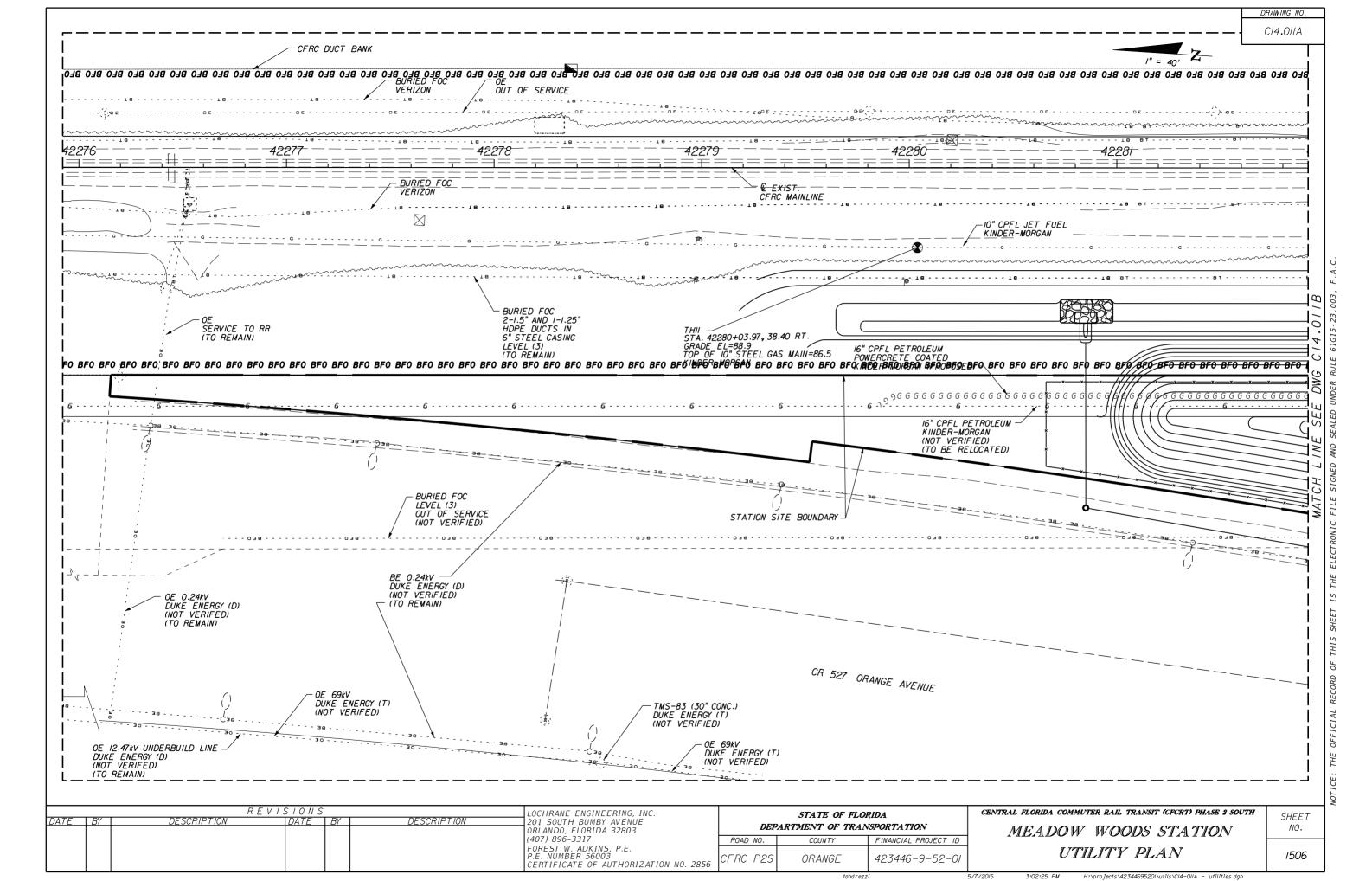
SHEET NO.

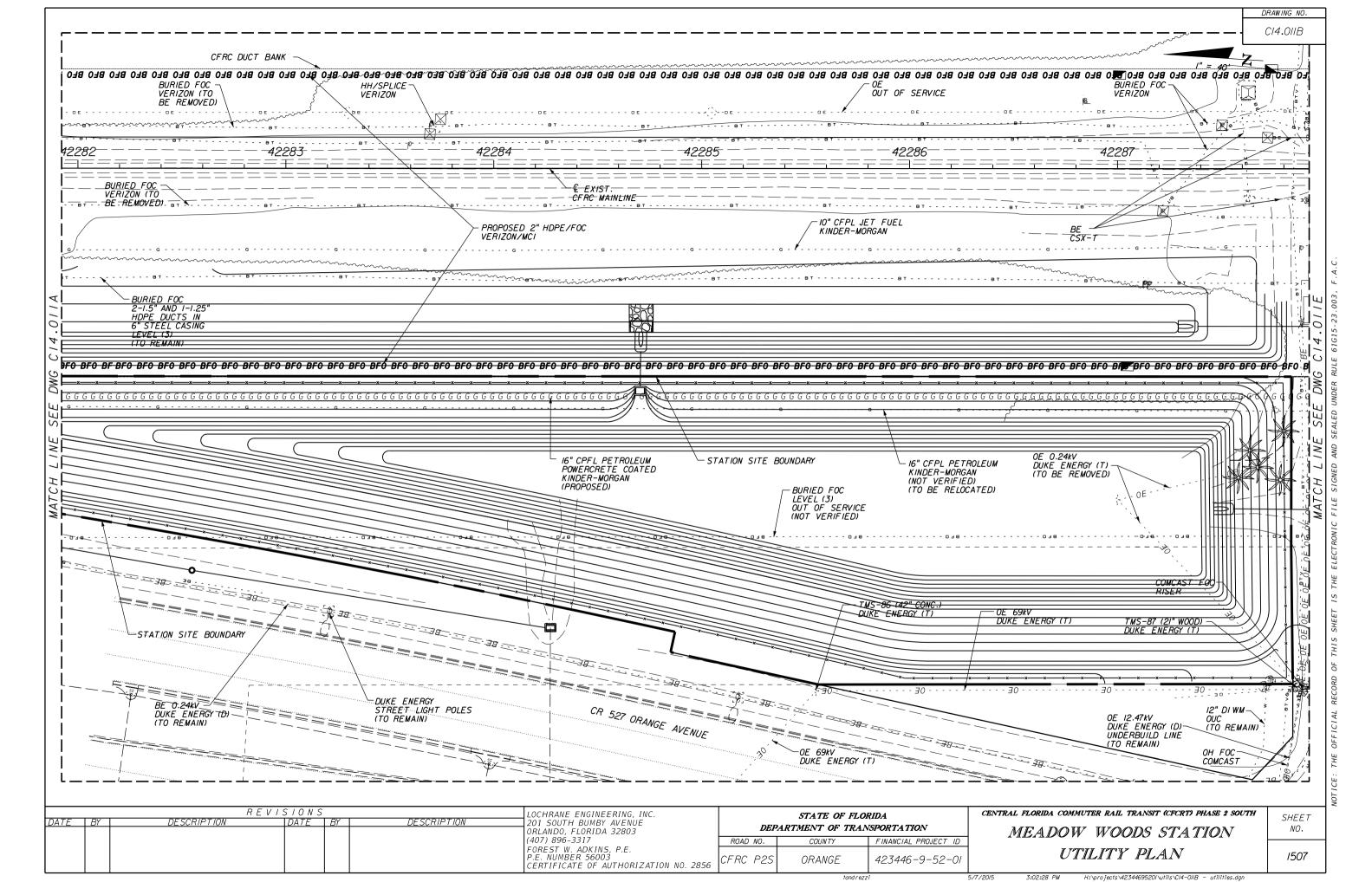
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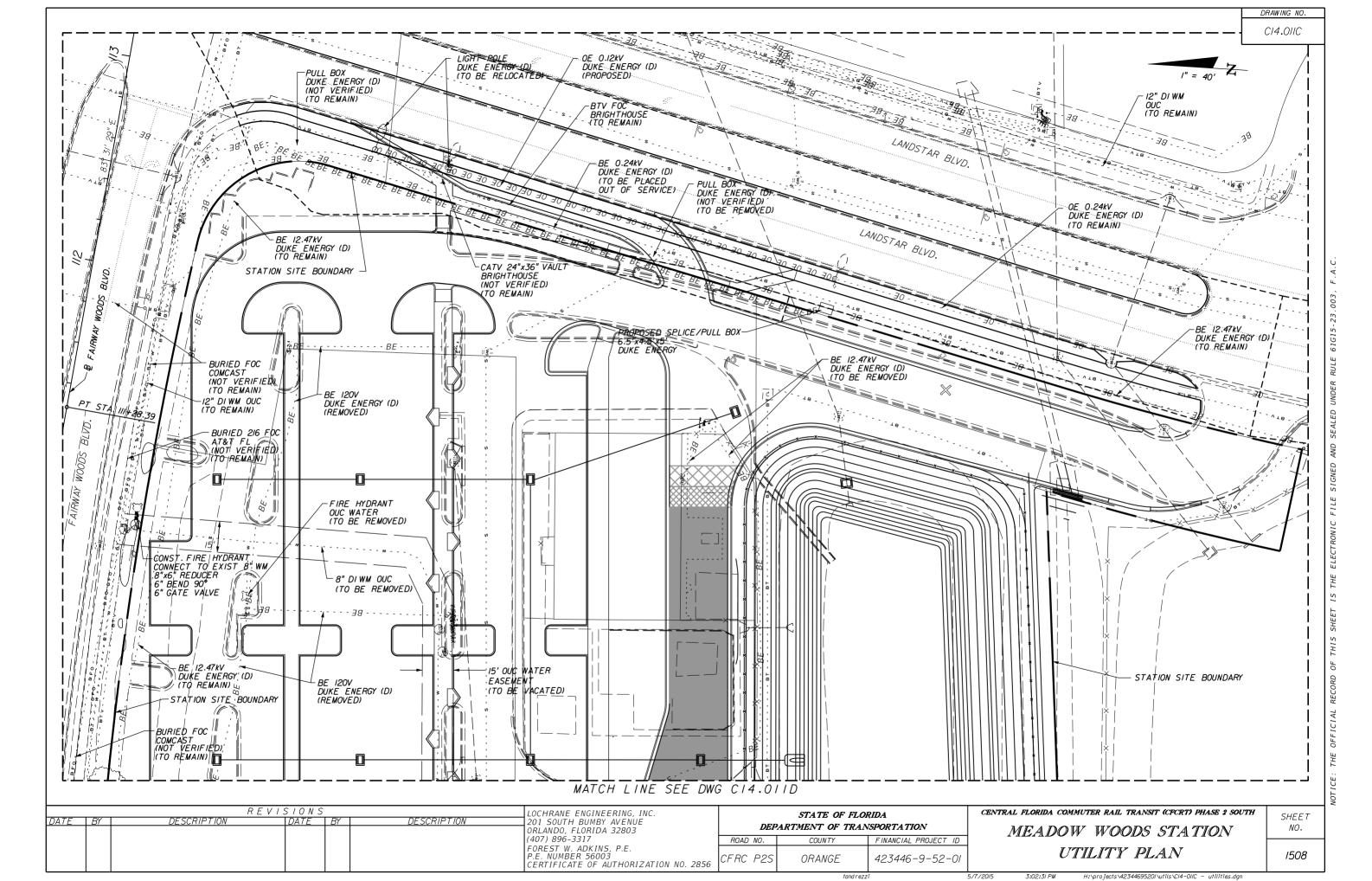
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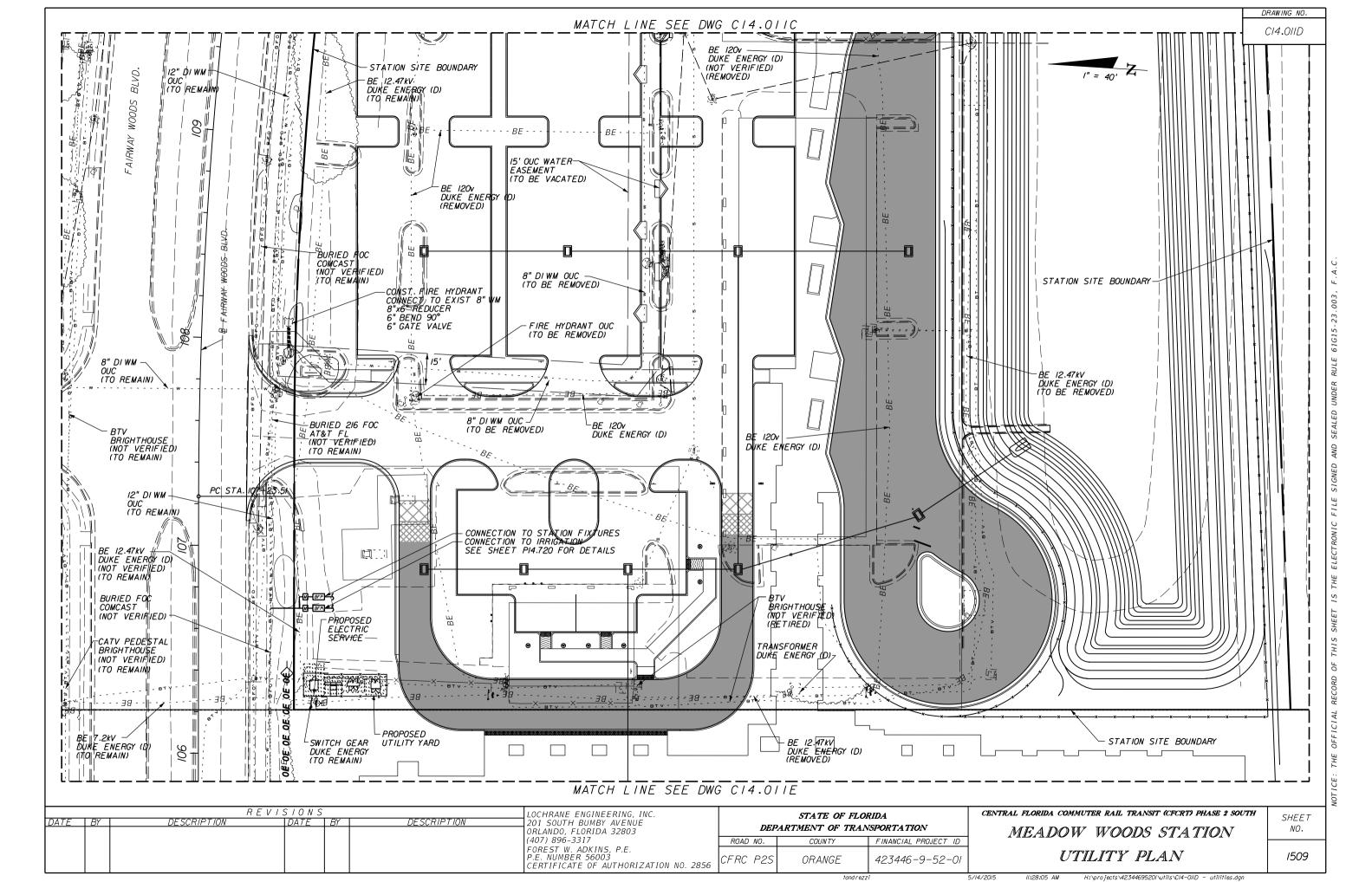


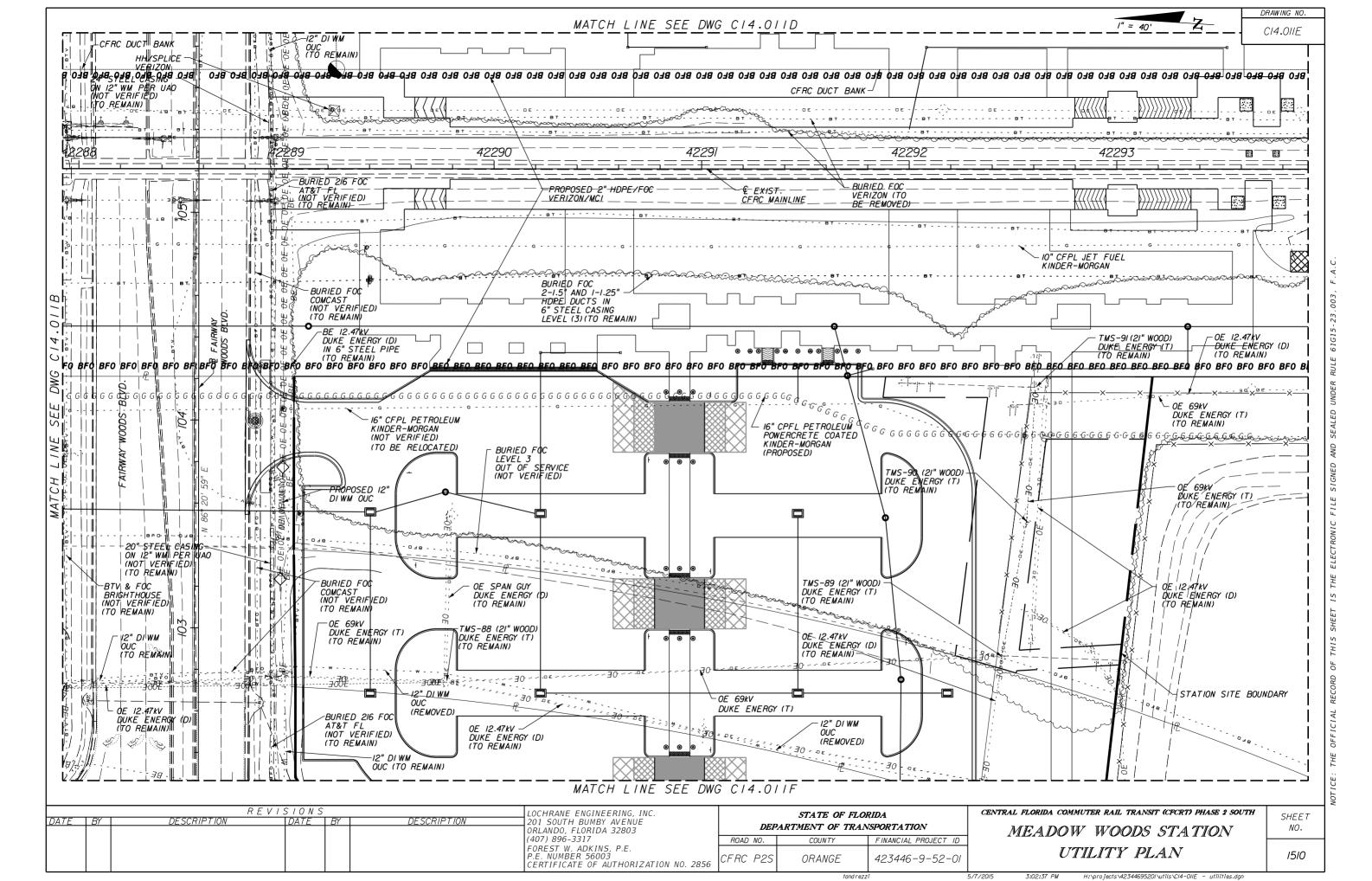


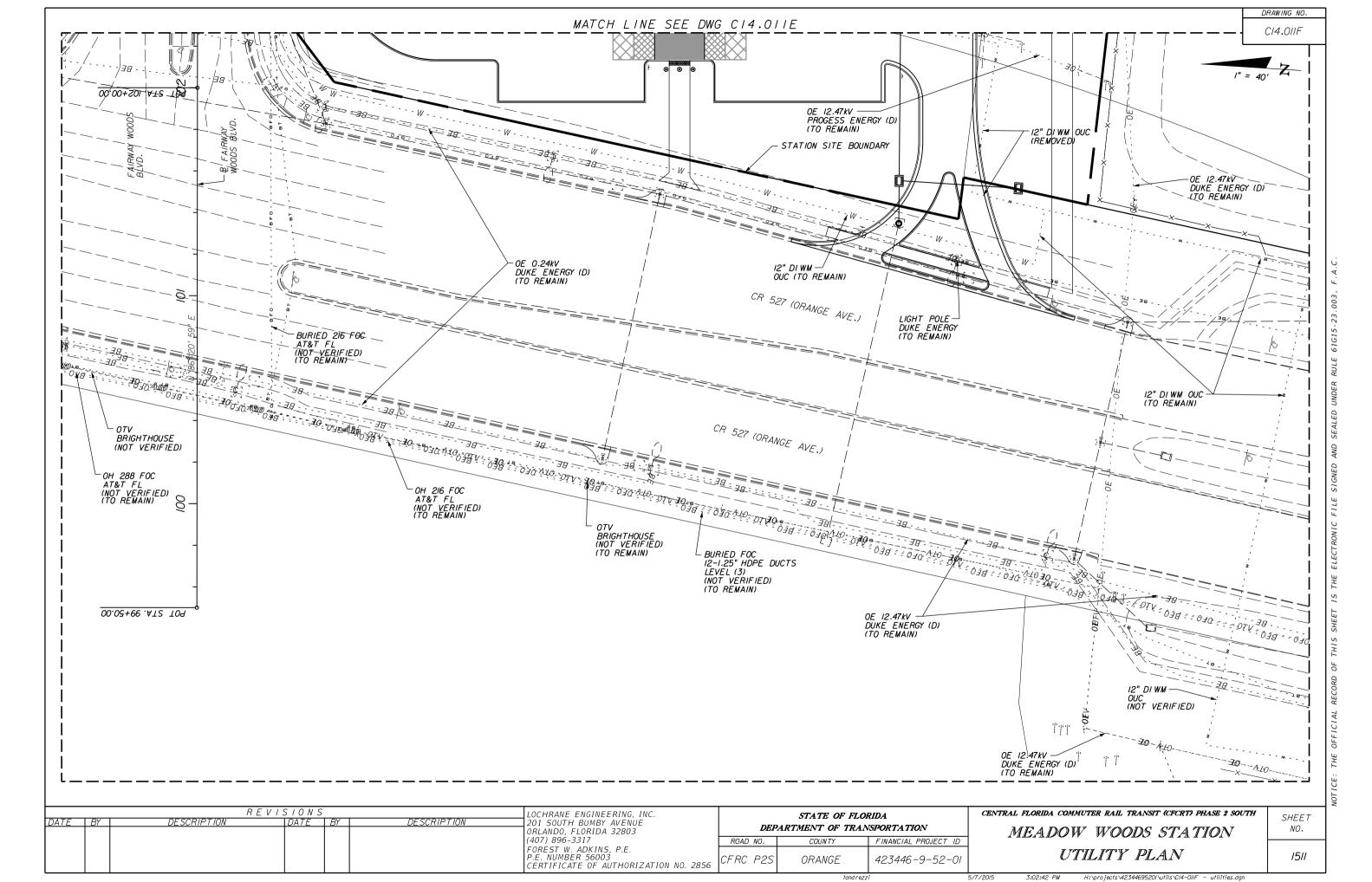


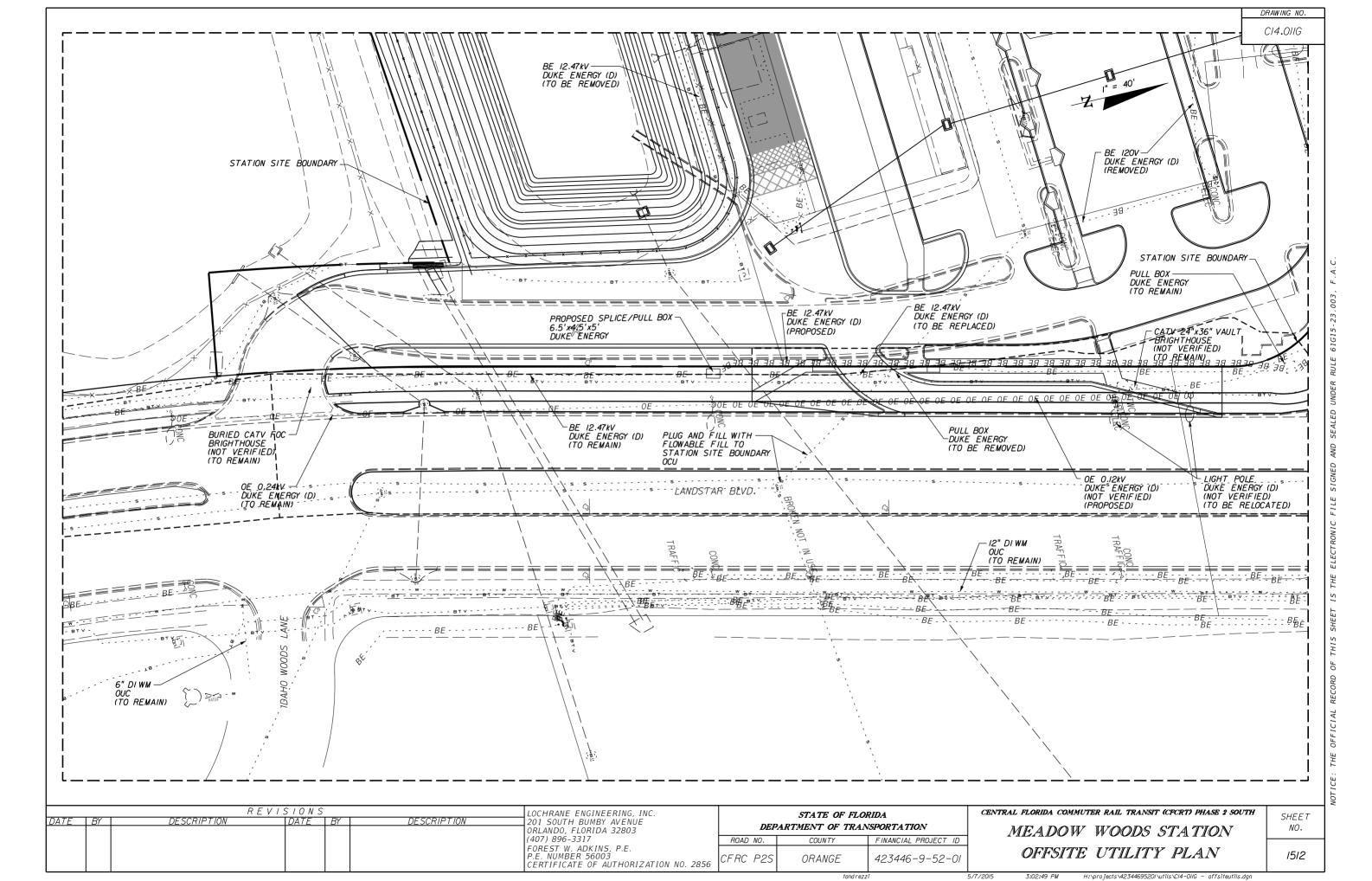


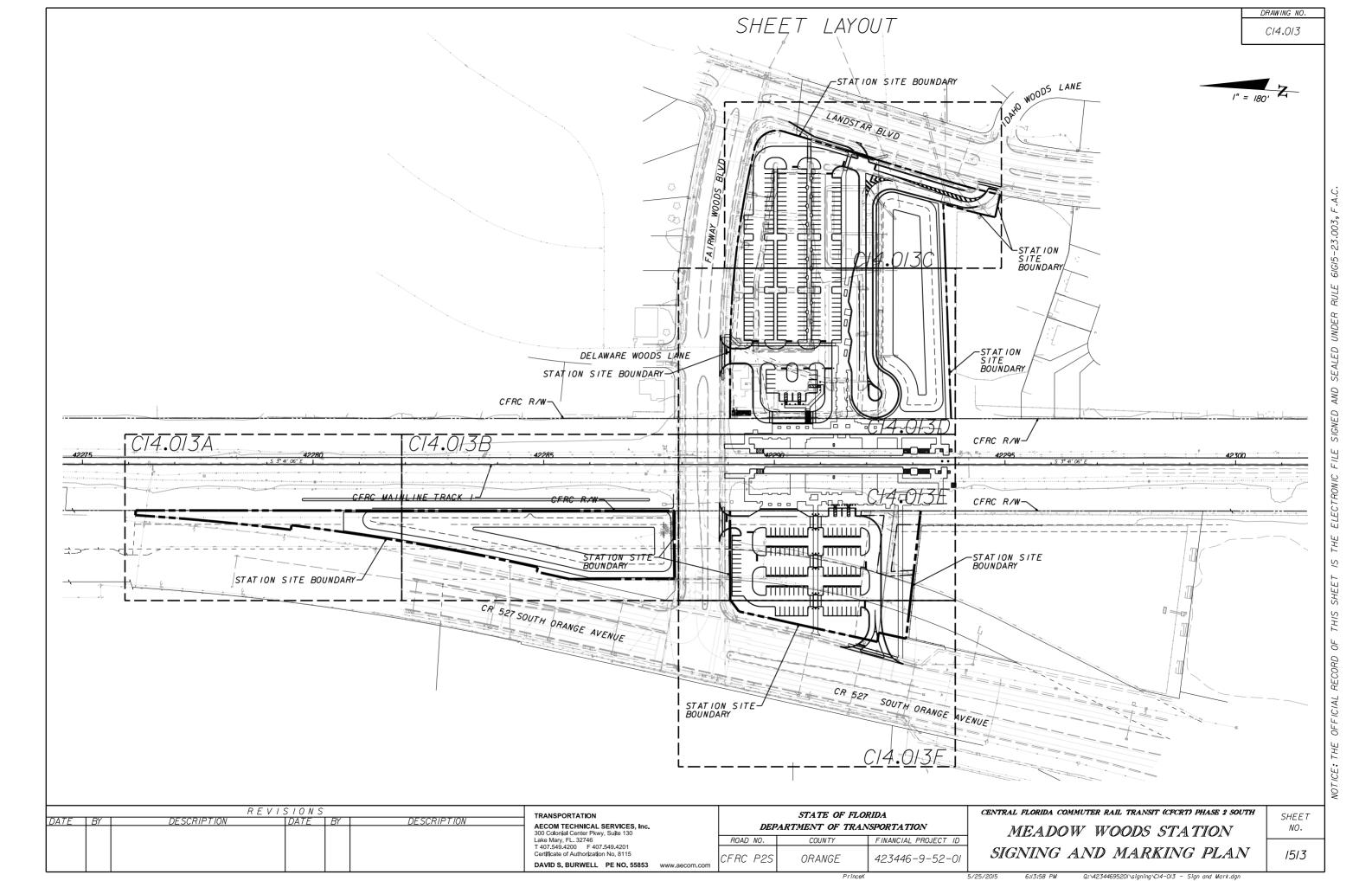


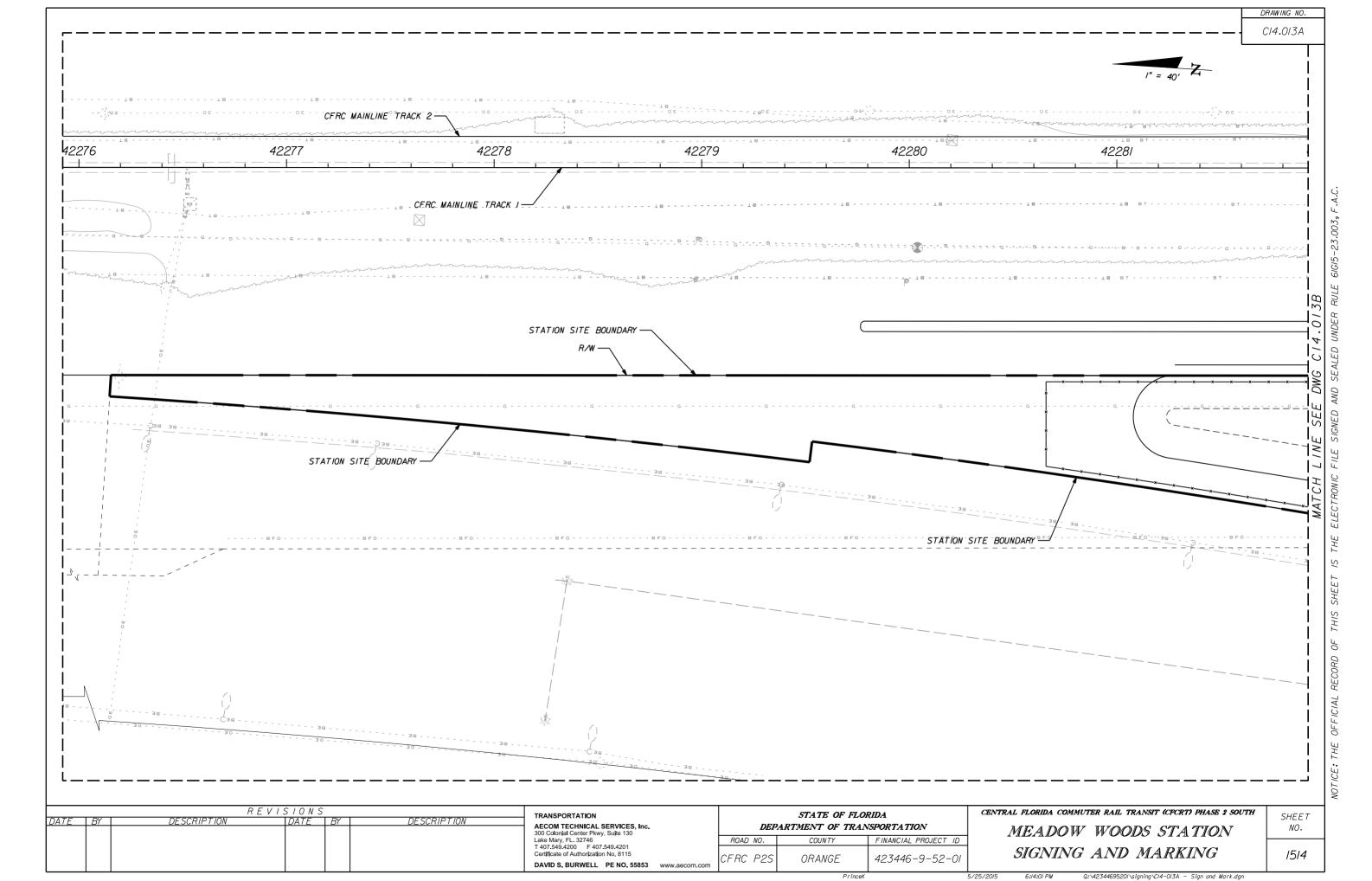


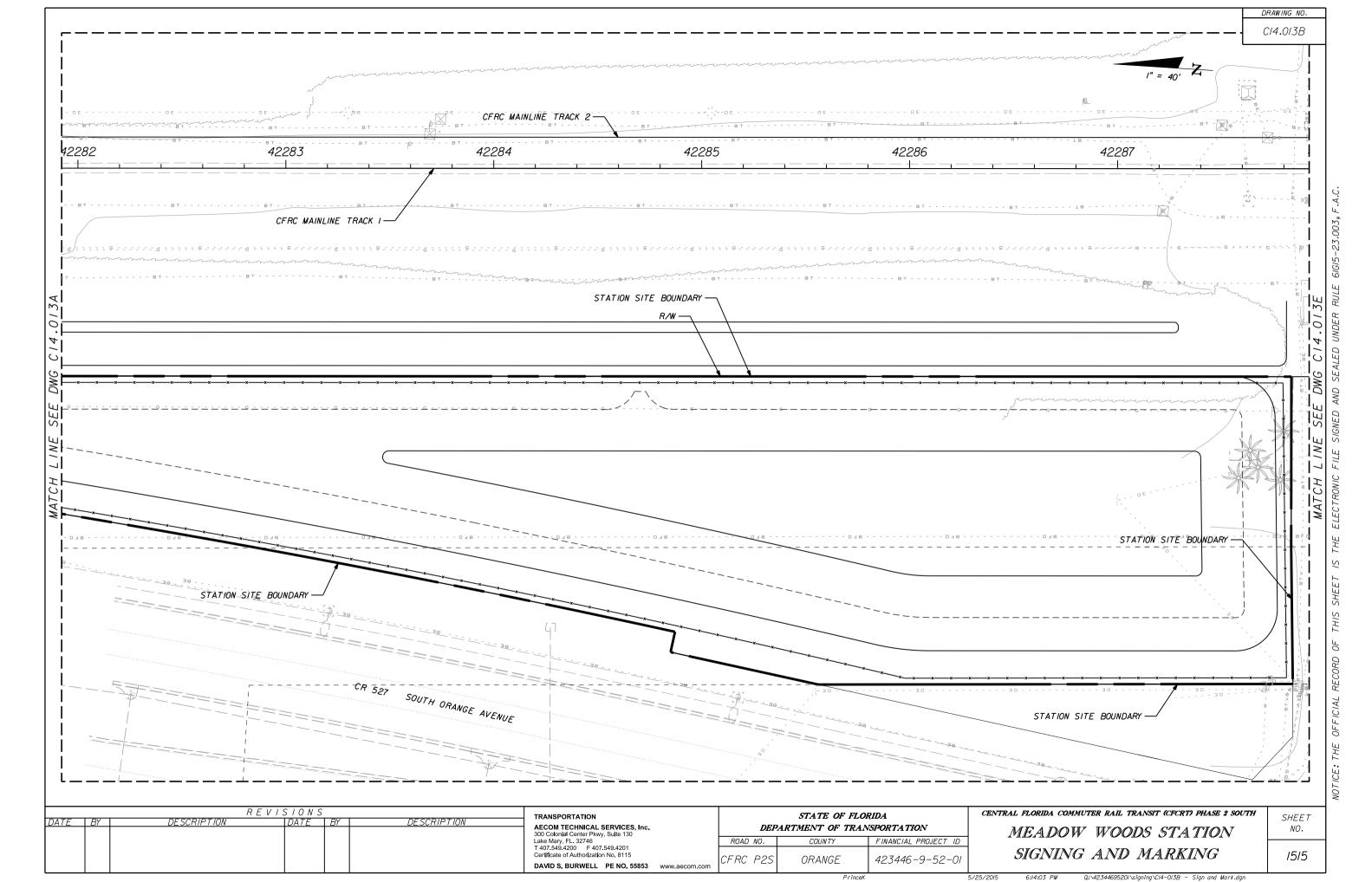


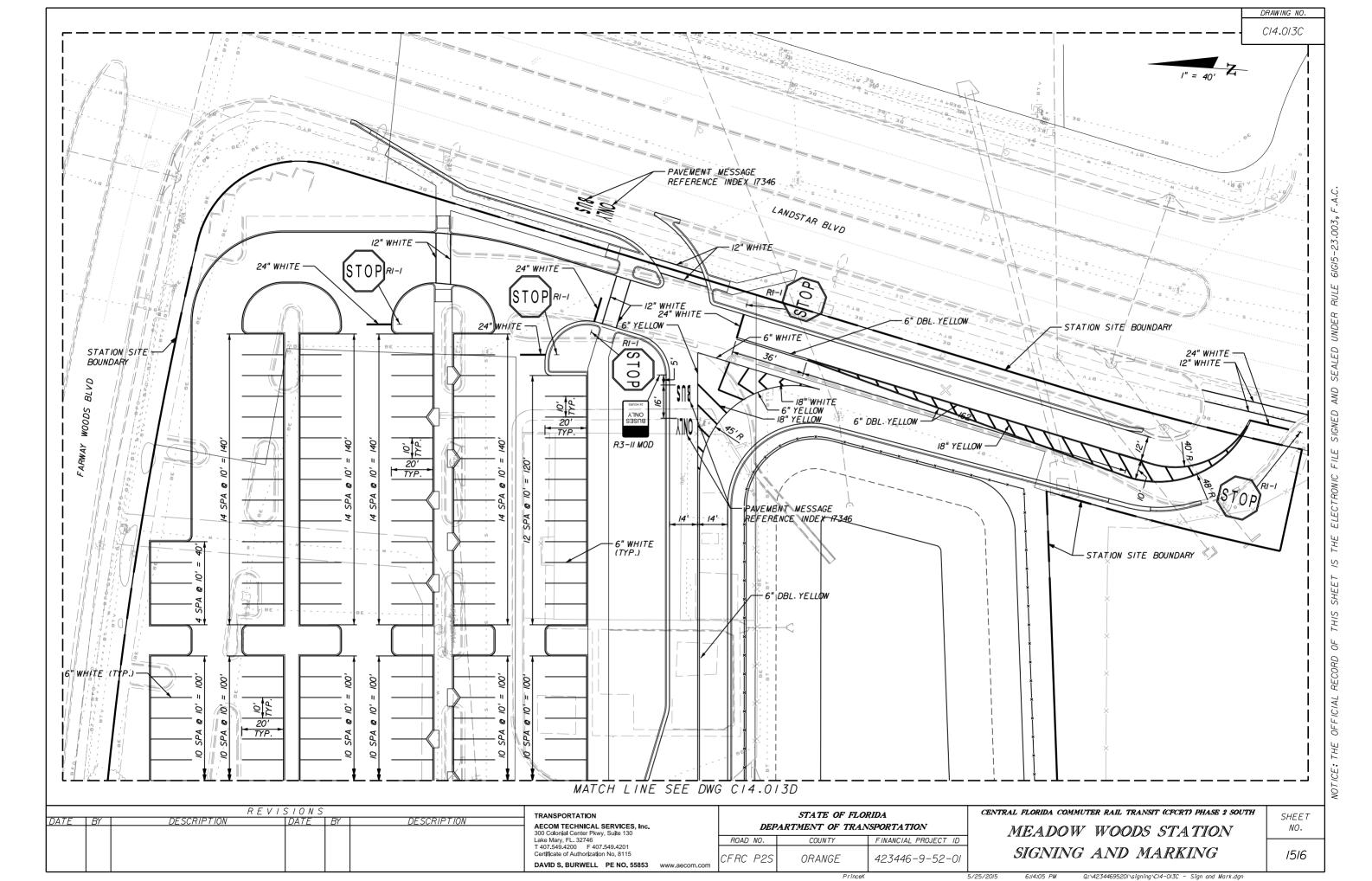


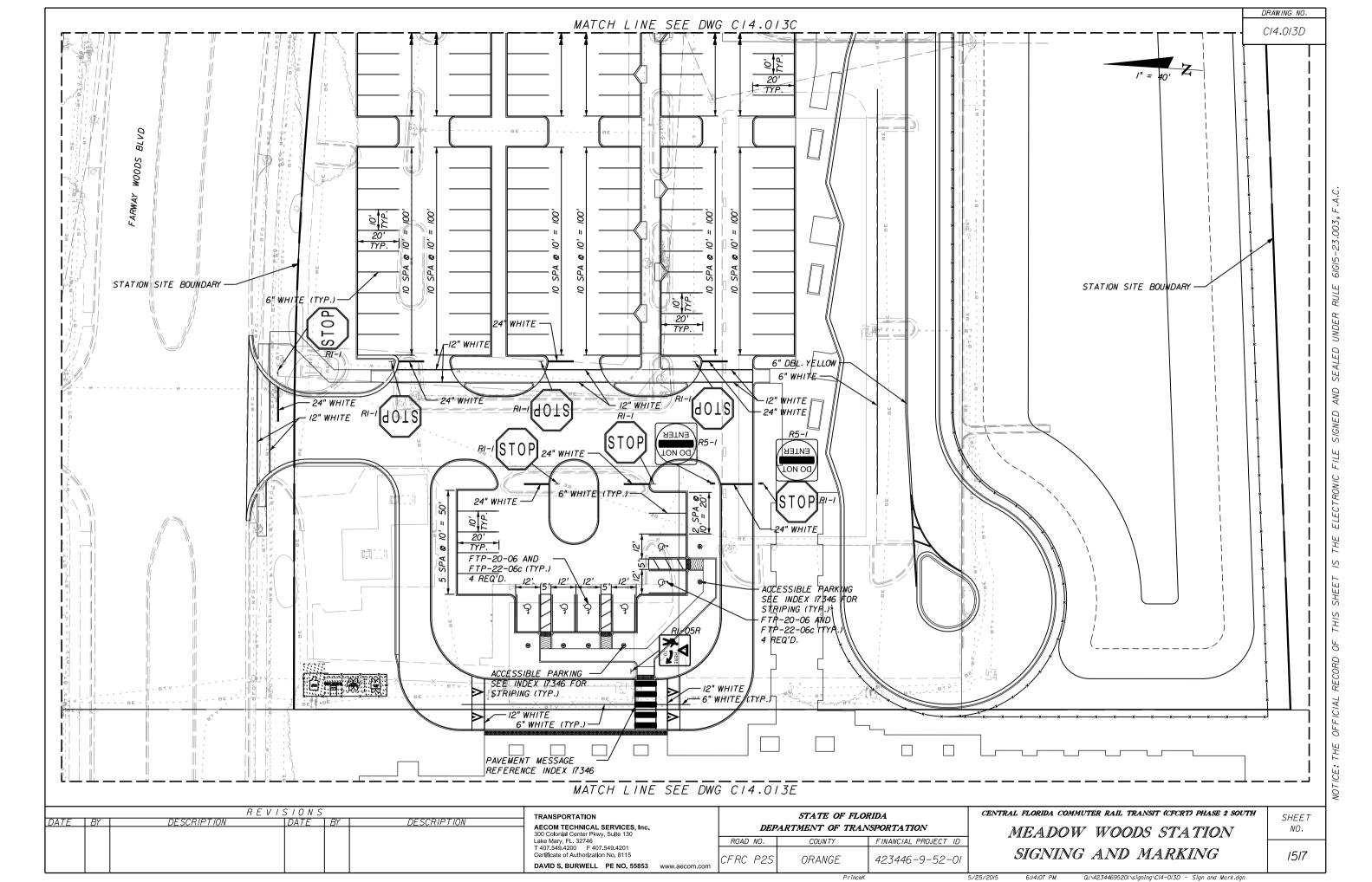


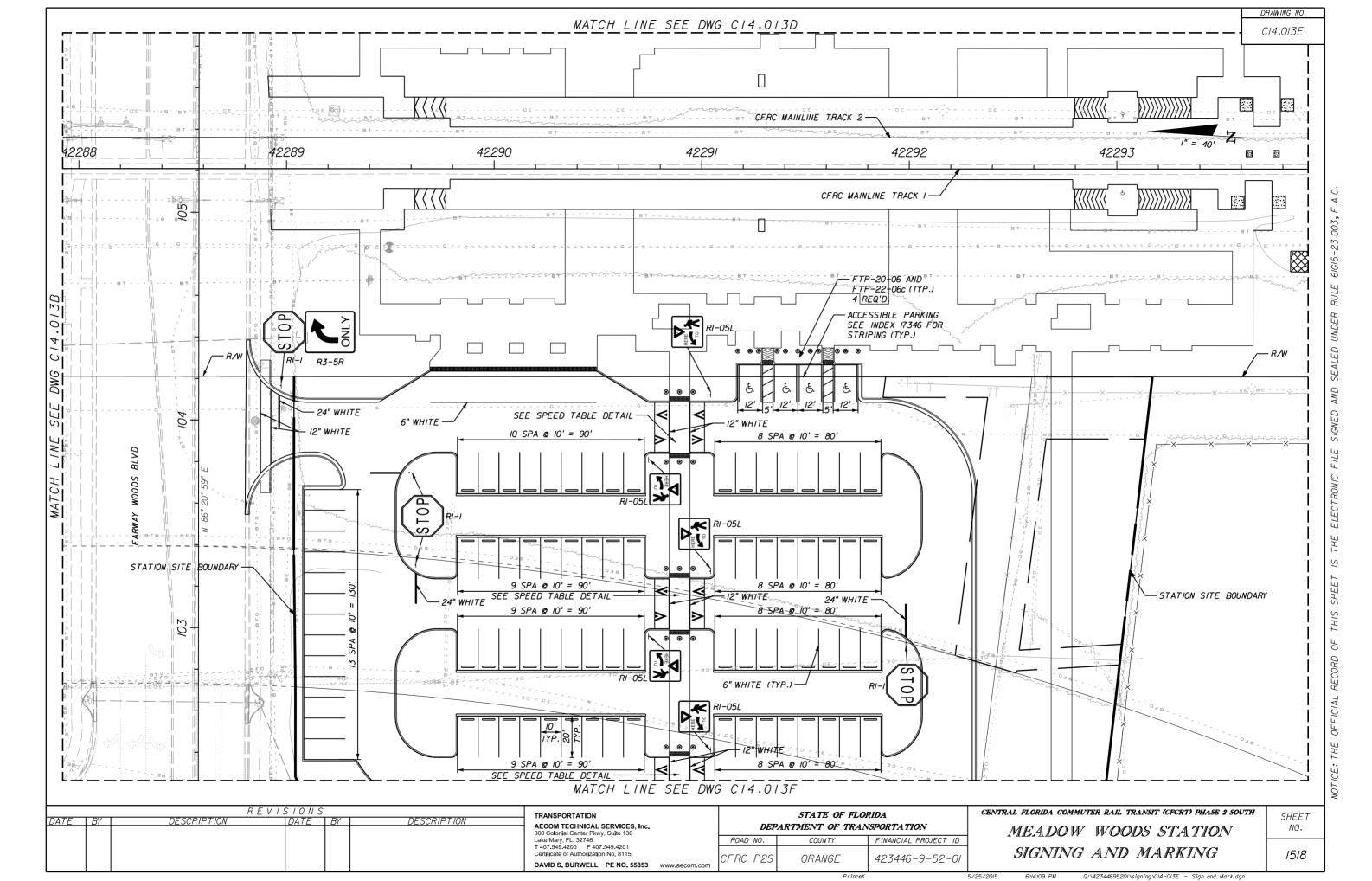


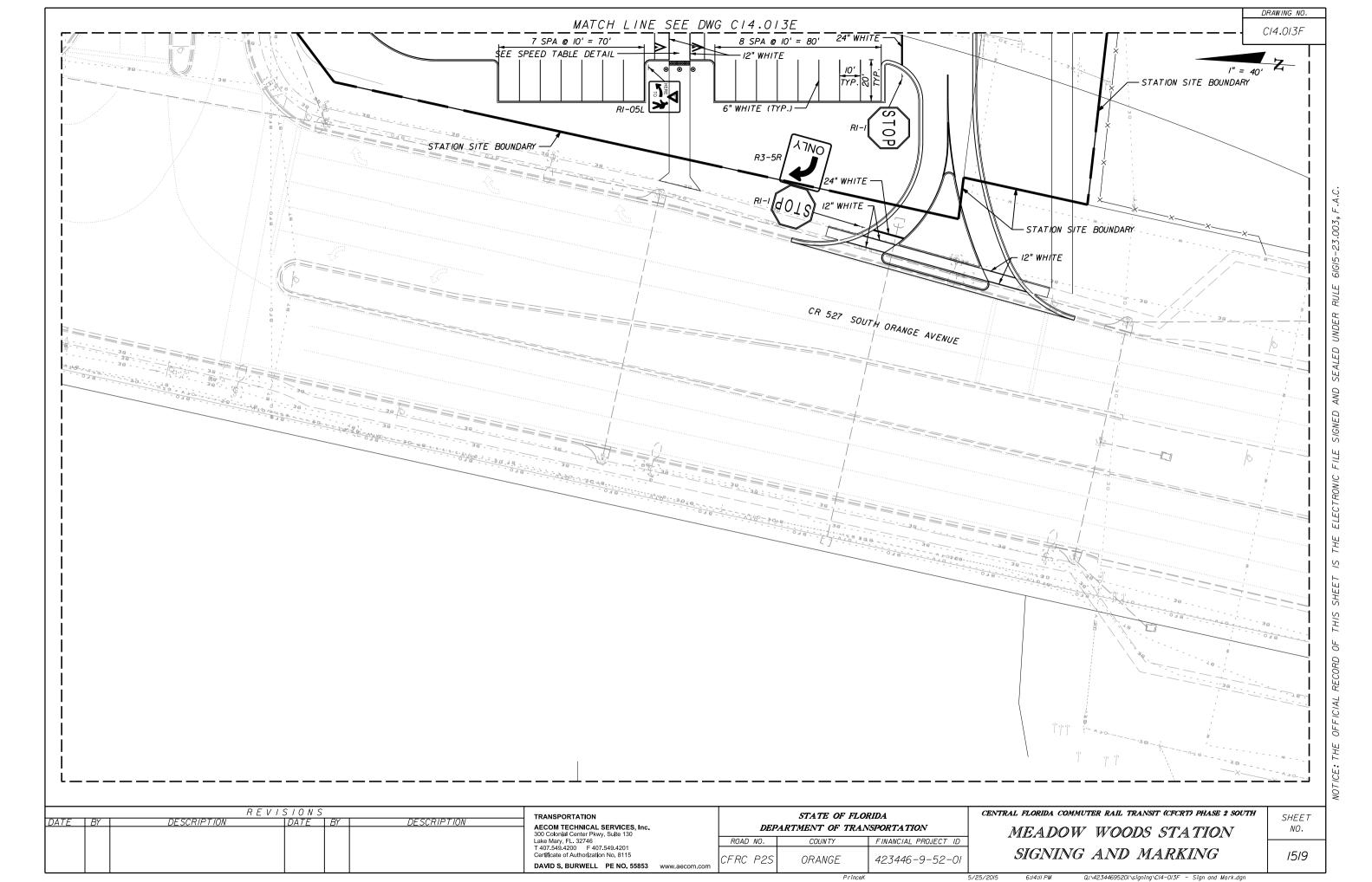


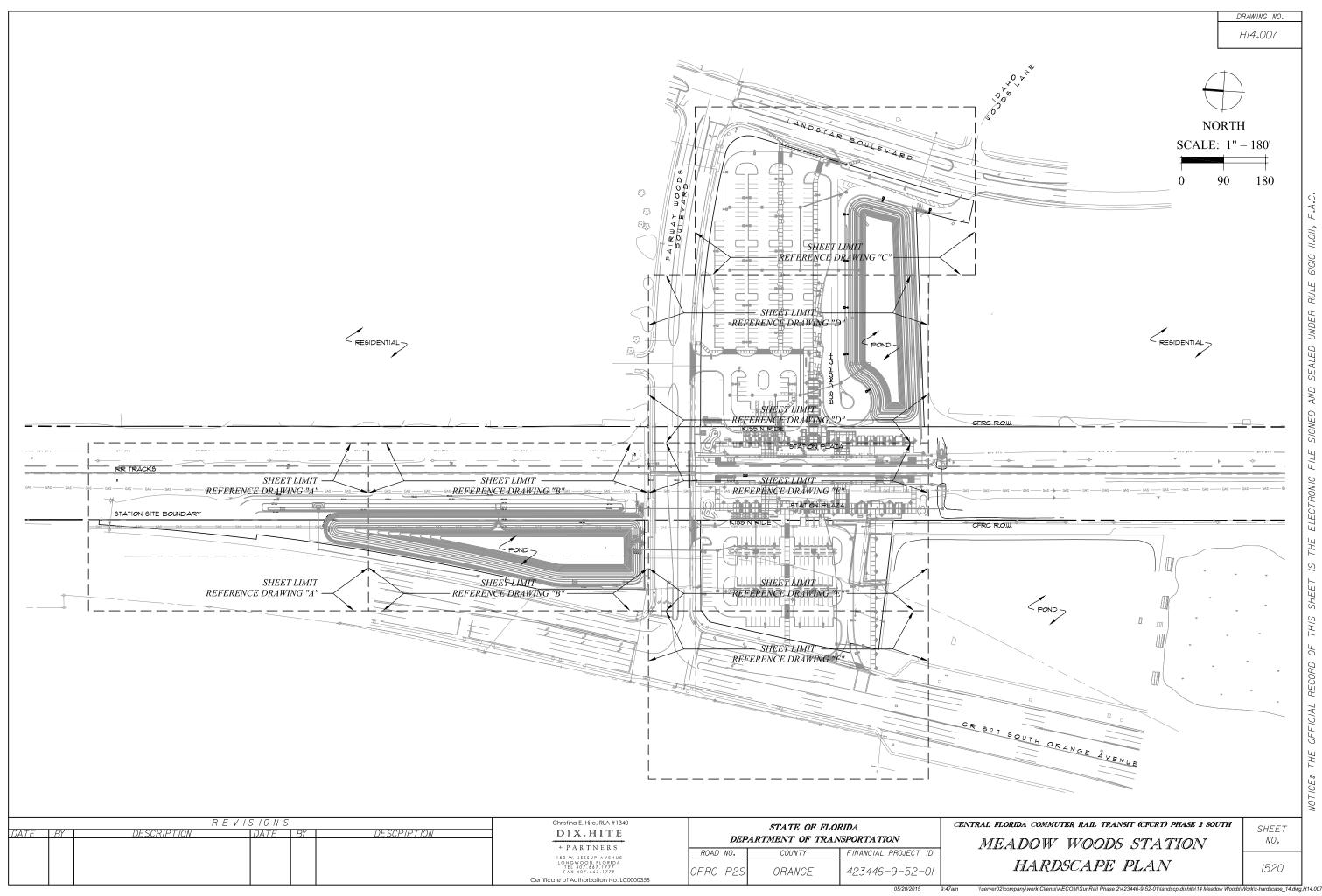


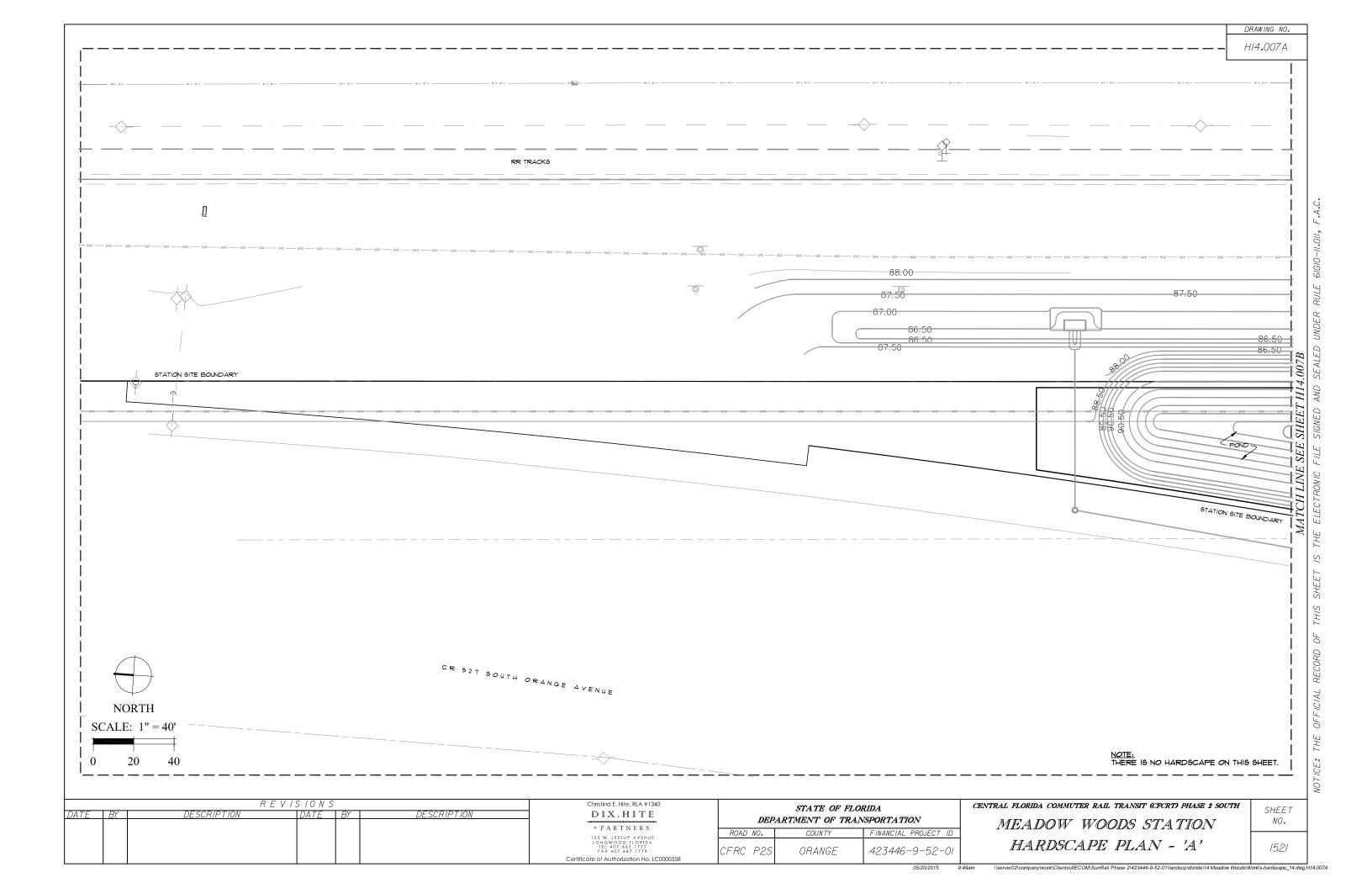


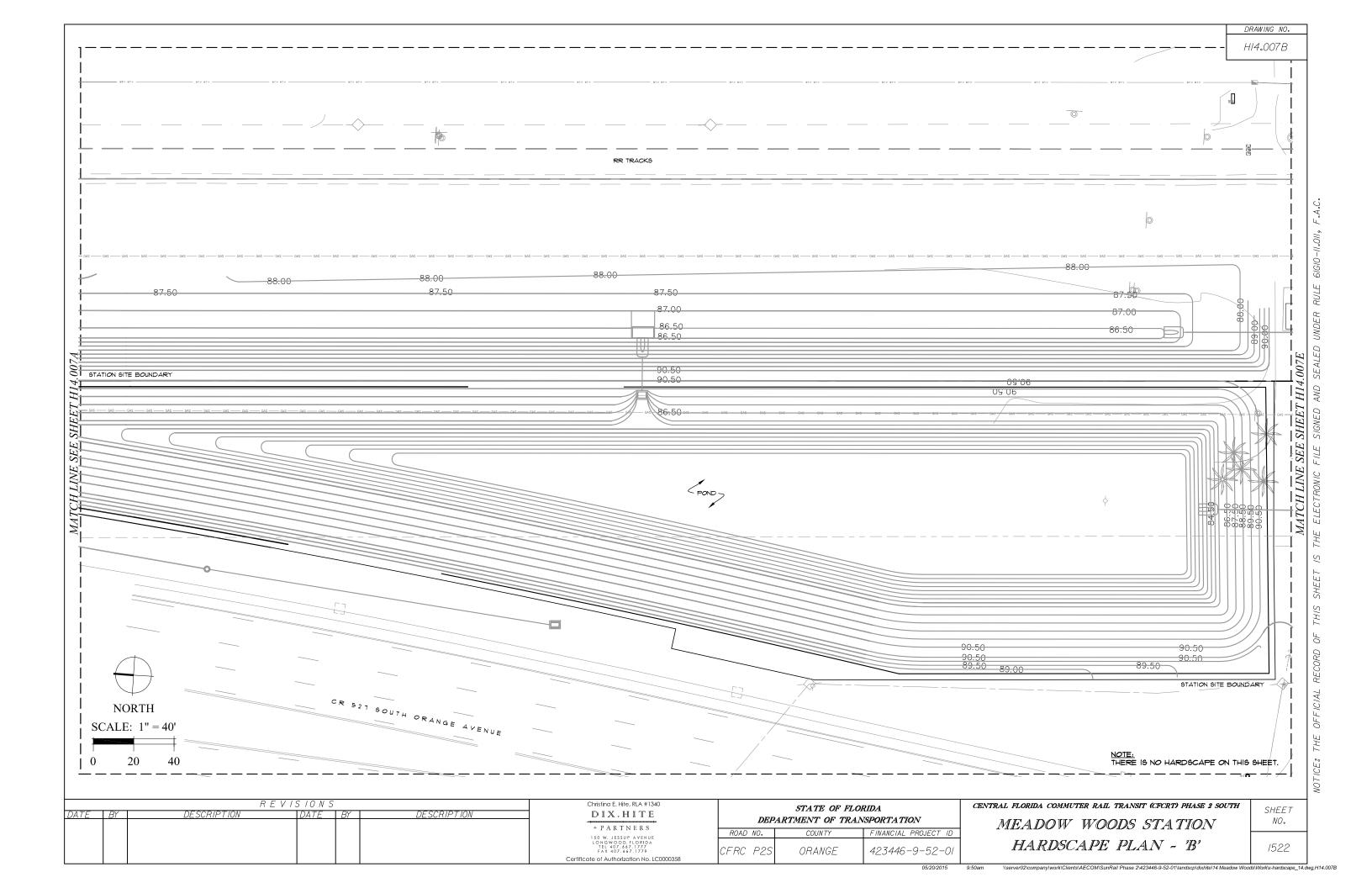


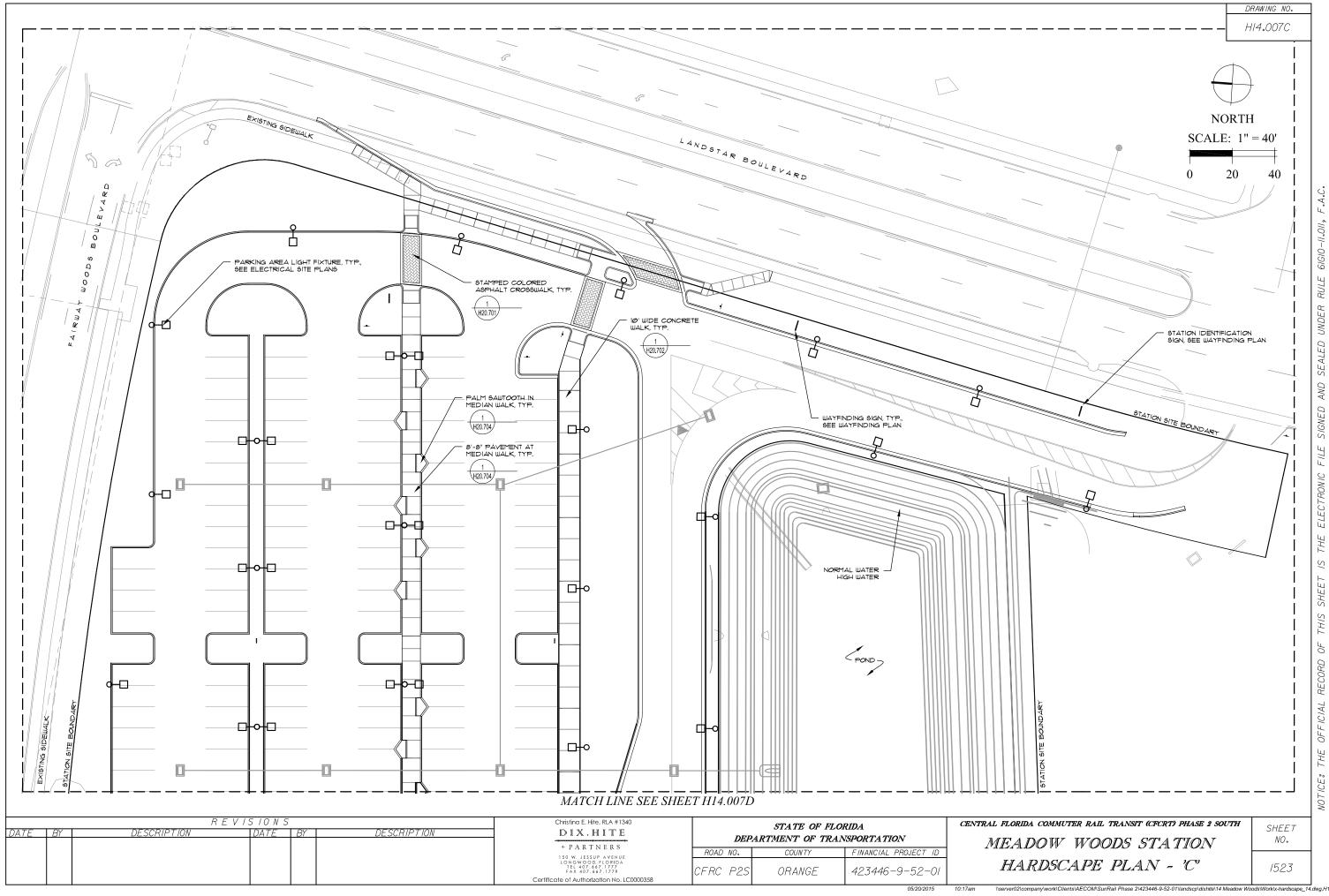


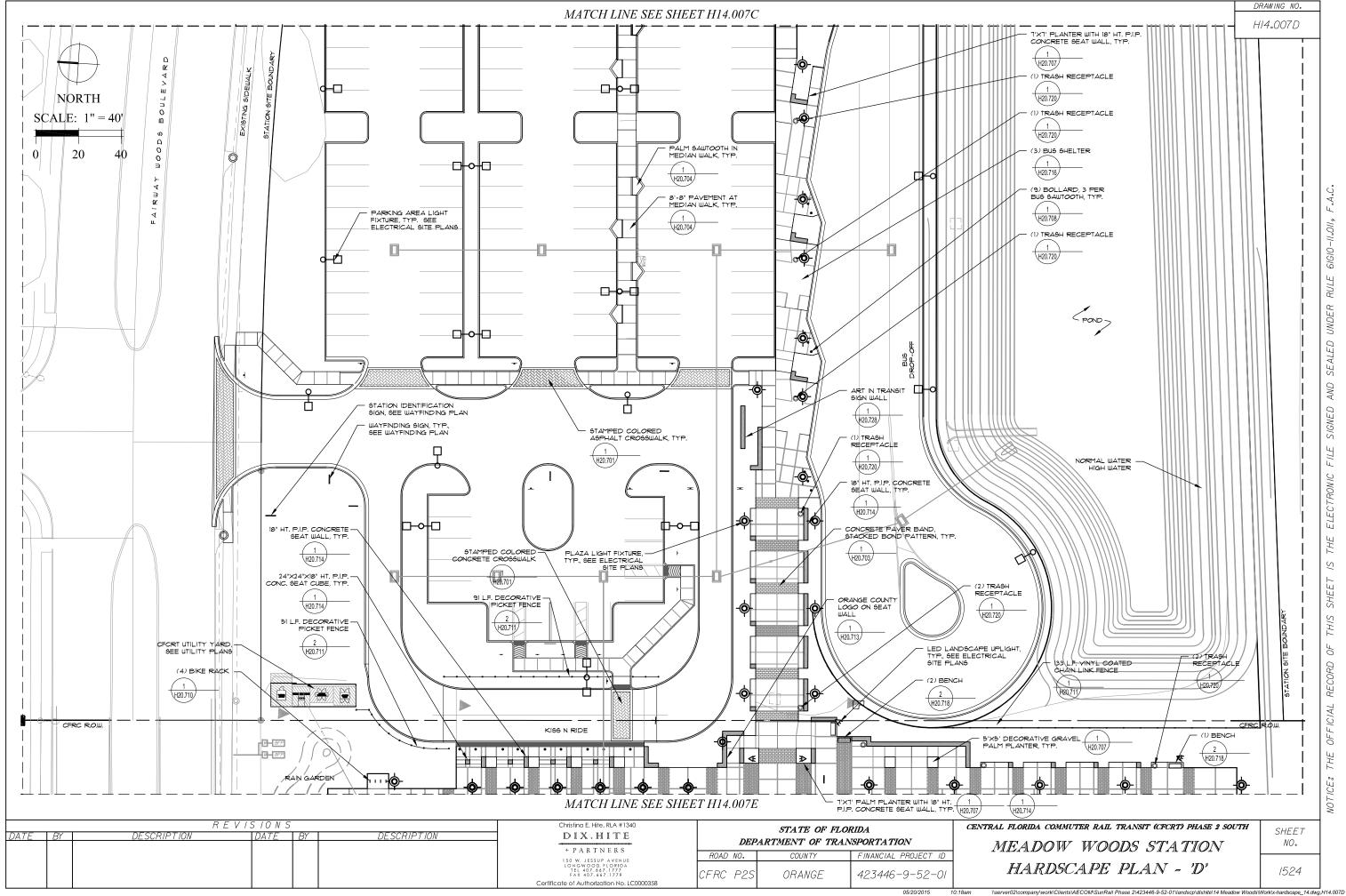


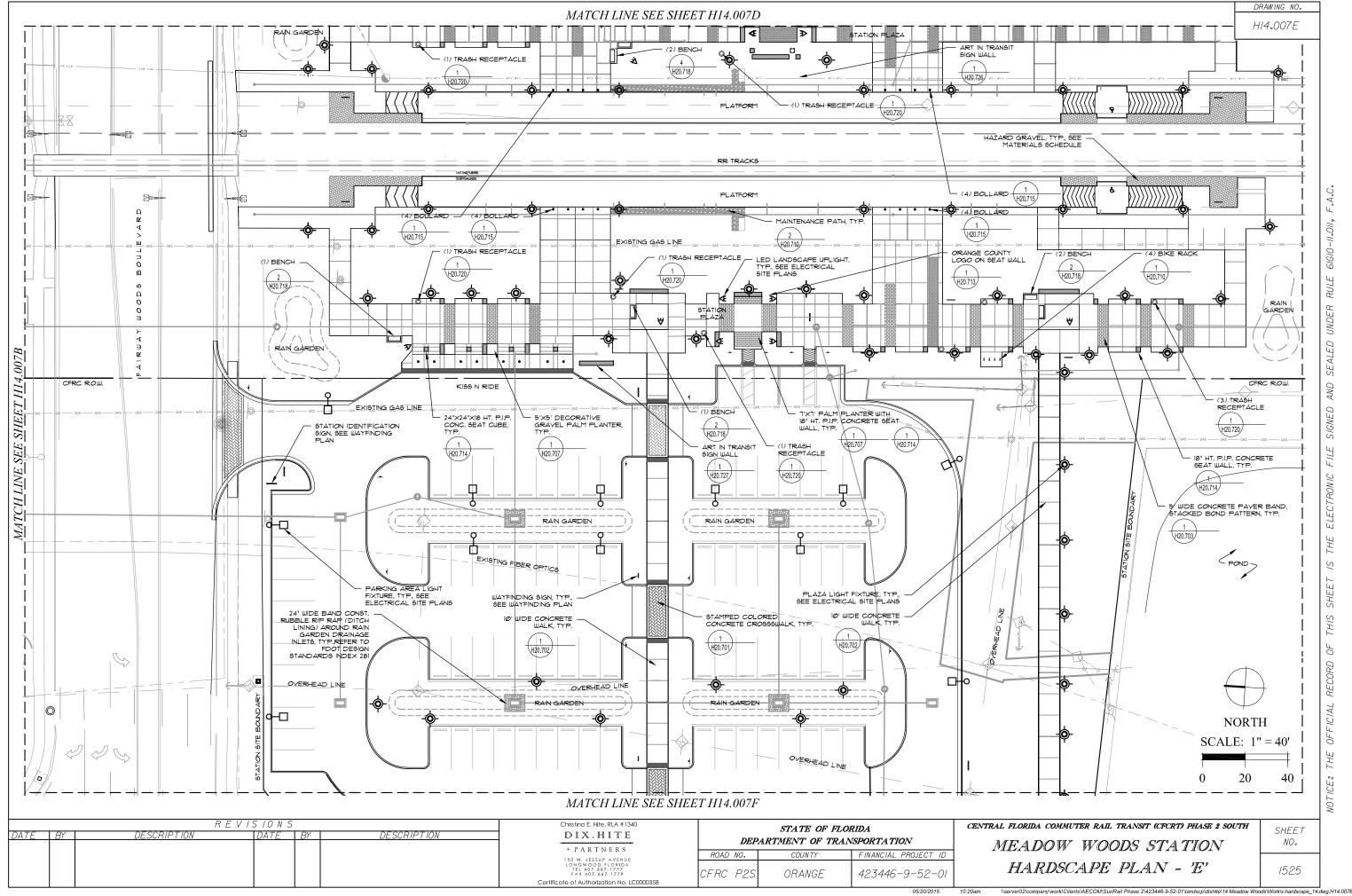


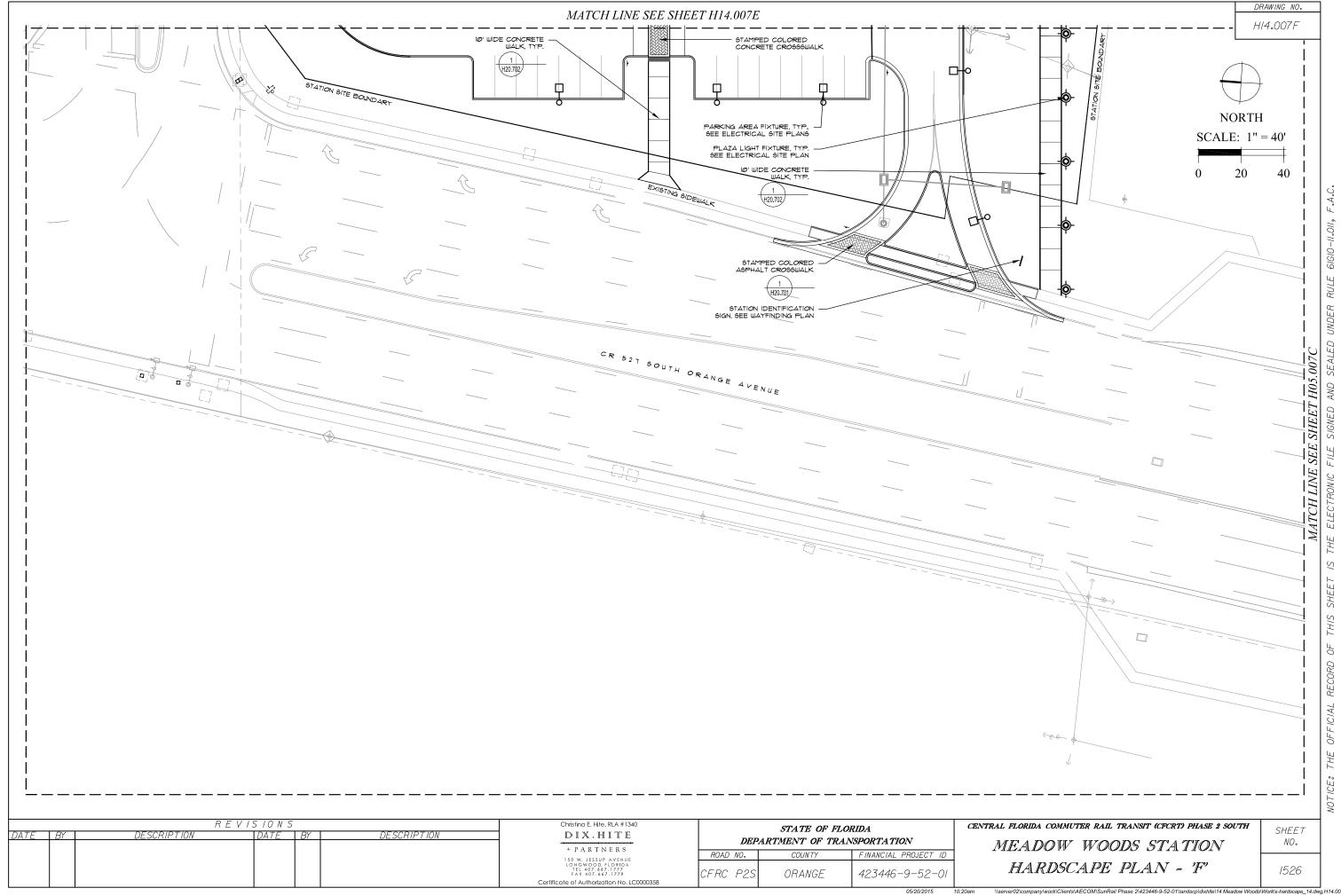


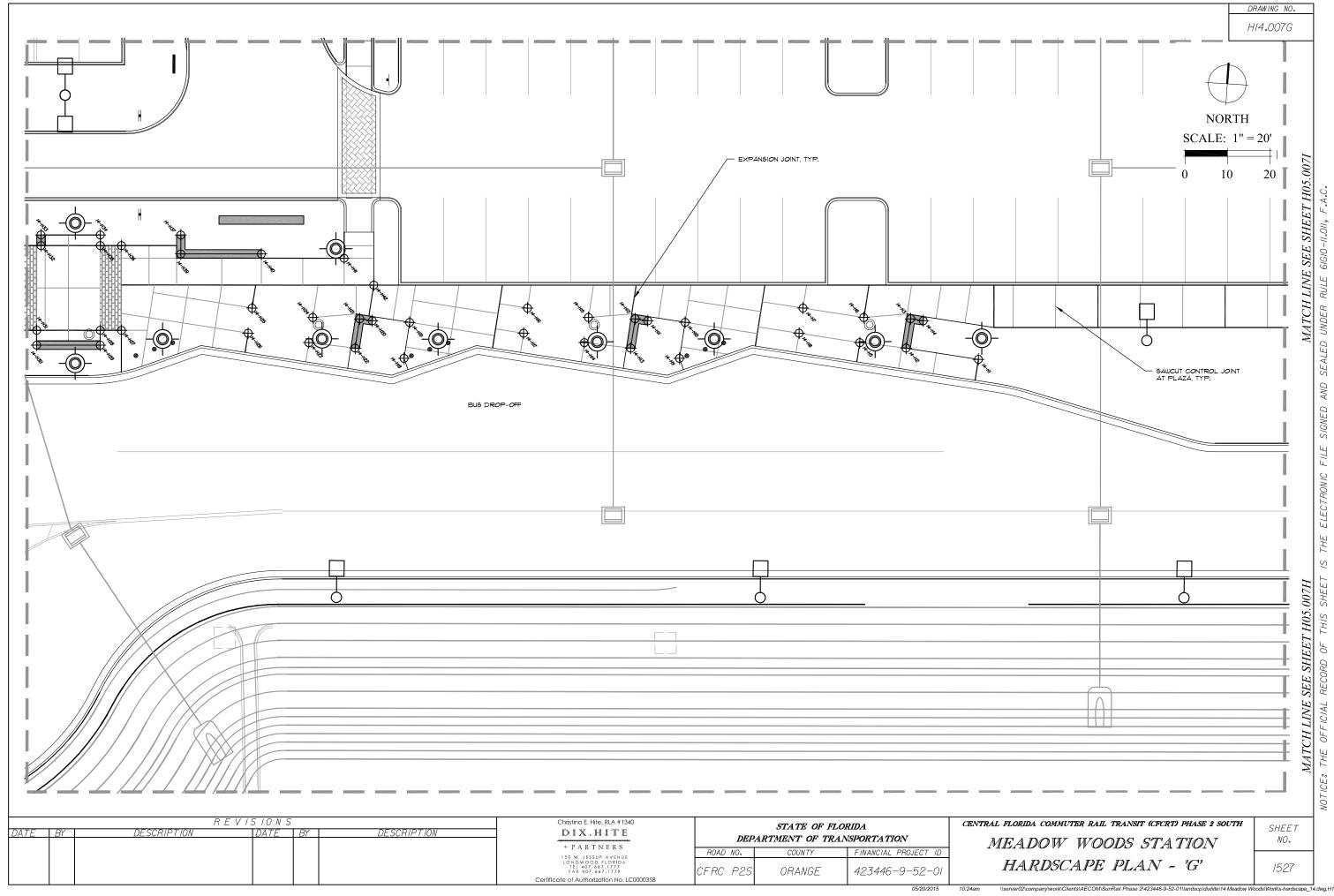


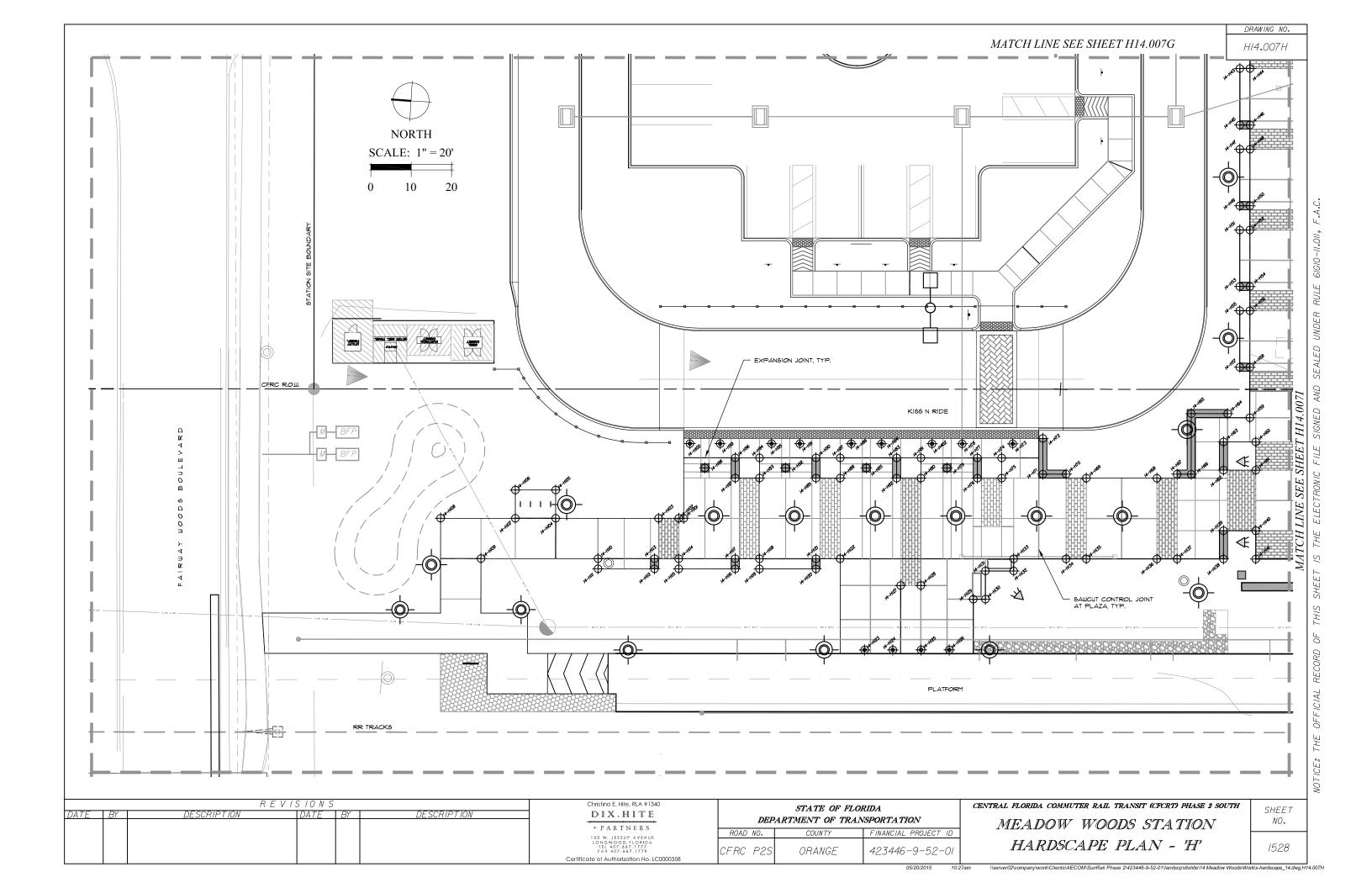


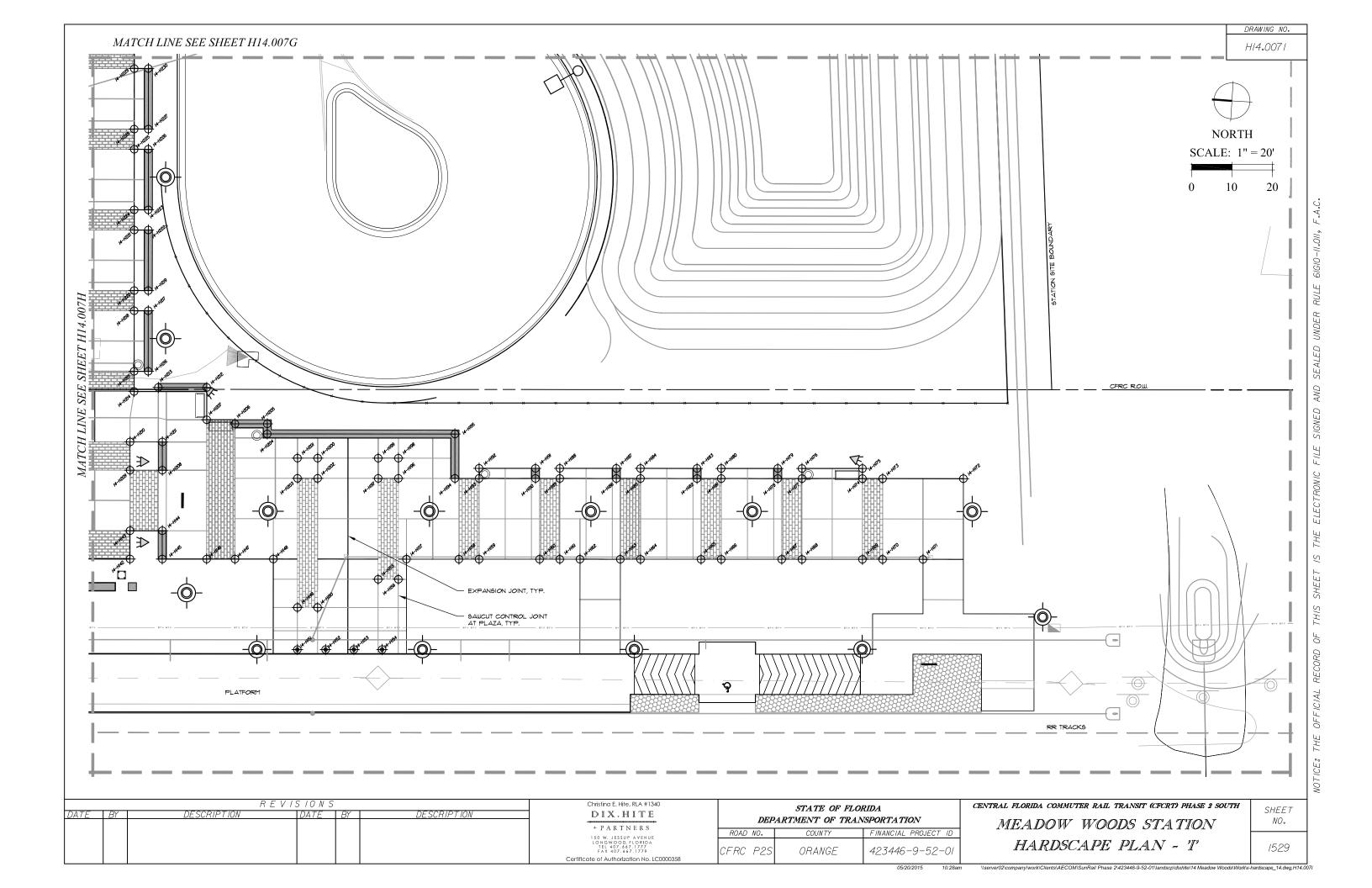


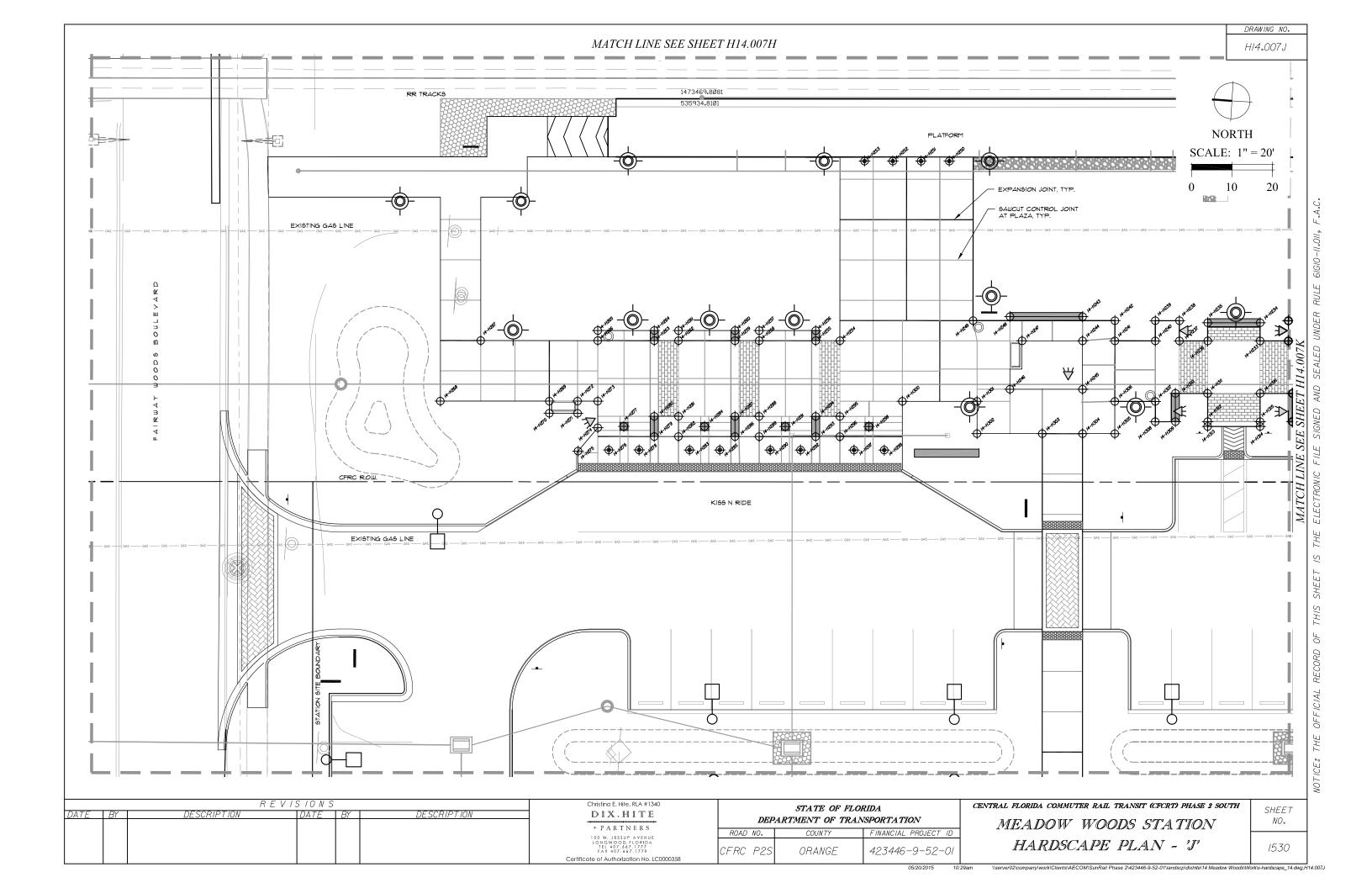


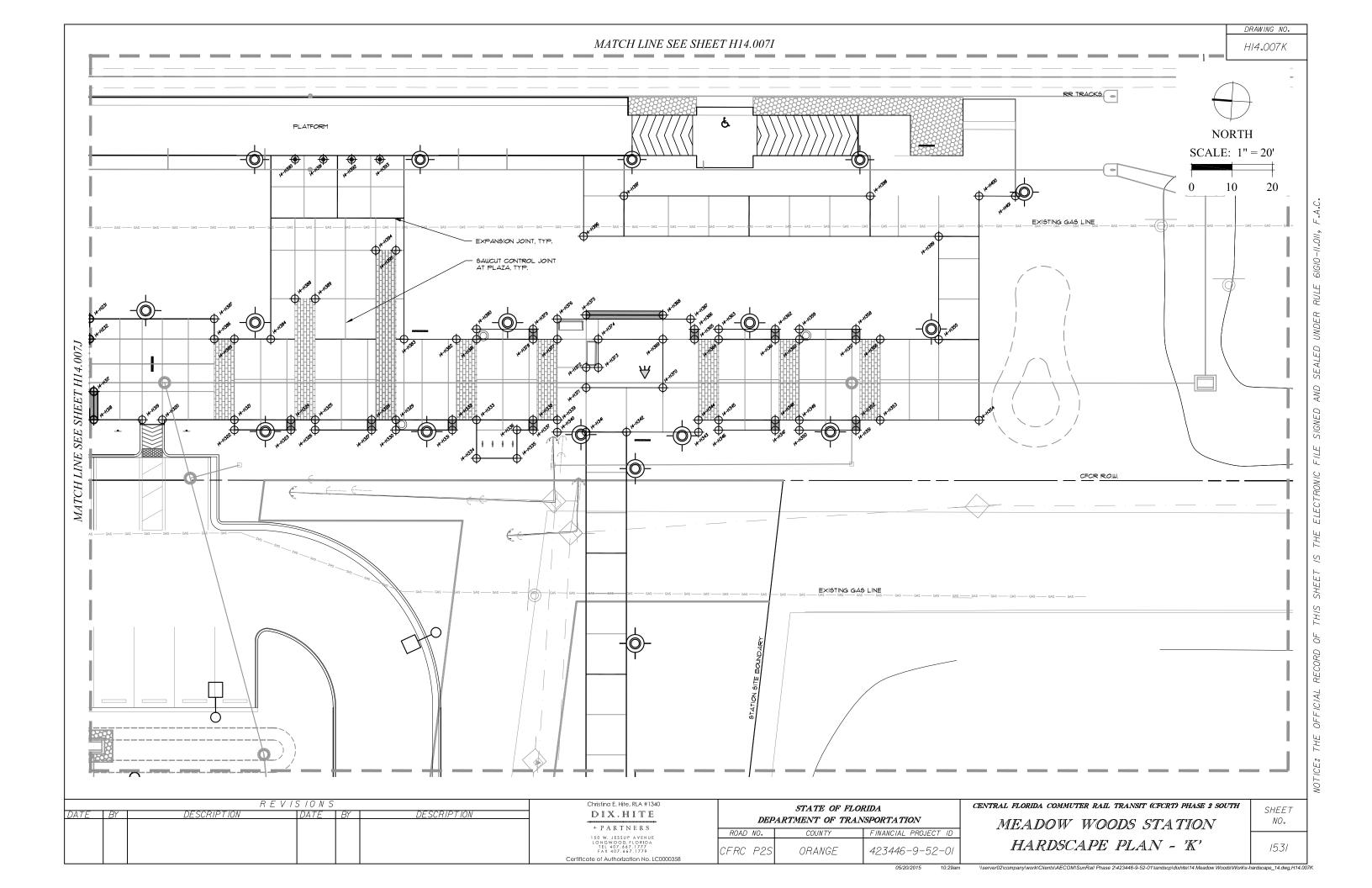












# COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H1	1473334.0915	536319.6289	End Point
14-H2	1473335.6347	536302.4373	Center Point
14-H3	1473342.6067	536303.0632	Center Point
14-H4	1473342.3385	536306.0512	Center Point
14-H5	1473336.2207	536291.4457	End Point
14-H6	1473342.1975	536291.9822	End Point
14-H7	1473343.4948	536277.5401	End Point
14-H8	1473337.5170	536277.0036	End Point
14-H9	1473329.7761	536249.2301	End Point
14-H10	1473338.3327	536250.0022	End Point
14-H11	1473338.1298	536241.1876	Center Point
14-H12	1473338.3980	536238.1996	Center Point
14-H13	1473331.4260	536237.5737	<b>Center Point</b>
14-H14	1473332.0128	536226.5822	End Point
14-H15	1473337.9970	536227.1748	End Point
14-H16	1473339.2852	536212.6765	End Point
14-H17	1473333.3092	536212.1400	End Point
14-H18	1473325.5674	536184.3665	End Point
14-H19	1473334.1240	536185.1386	End Point
14-H20	1473333.9211	536176.3240	Center Point
14-H21	1473334.1893	536173.3360	Center Point
14-H22	1473327.2173	536172.7101	Center Point
14-H23	1473327.8041	536161.7186	End Point
14-H24	1473333.7801	536162.2550	End Point
14-H25	1473335.0765	536147.8129	End Point
14-H26	1473329.1005	536147.2764	End Point
14-H27	1473327.8368	536117.4007	End Point
14-H28	1473327.5155	536112.4102	End Point
14-H29	1473324.0228	536112.6359	Center Point
14-H30	1473323.0589	536097.6669	Center Point
14-H31	1473326.5517	536097.4420	End Point
14-H32	1473346.5749	536097.1548	Center Point
14-H33	1473349.0702	536096.9941	Center Point
14-H34	1473349.9690	536110.9644	End Point
14-H35	1473347.4742	536111.1259	End Point

DOINT NAME	NORTHING	FACTING	DECCRIPTION
POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H36	1473347.7982	536116.1154	End Point
14-H37	1473351.1898	536129.9251	Center Point
14-H38	n/a	n/a	n/a
14-H39	1473346.7374	536130.2125	Center Point
14-H40	1473347.9616	536149.1771	Center Point
14-H41	1473348.2181	536168.7239	End Point
14-H42	1473342.3434	536176.1238	End Point
14-H43	1473348.6839	536091.0066	End Point
14-H44	1473346.1890	536091.1664	End Point
14-H45	1473347.7843	536077.0355	Center Point
14-H46	1473345.2894	536077.1961	Center Point
14-H47	1473347.3987	536071.0472	End Point
14-H48	1473344.9039	536071.2086	End Point
14-H49	1473346.4991	536057.0768	Center Point
14-H50	1473344.0043	536057.2375	Center Point
14-H51	1473346.1137	536051.0892	End Point
14-H52	1473343.6189	536051.2520	End Point
14-H53	1473345.2140	536037.1182	Center Point
14-H54	1473342.7191	536037.2788	Center Point
14-H55	1473344.8285	536031.1306	End Point
14-H56	1473342.3337	536031.2914	End Point
14-H57	1473343.9288	536017.1595	Center Point
14-H58	1473341.4340	536017.3201	Center Point
14-H59	1473340.6307	536004.8454	End Point
14-H60	1473338.7524	535998.9545	End Point
14-H61	1473338.2984	535991.9692	End Point
14-H62	1473346.2826	535991.4551	Center Point
14-H63	1473346.7324	535998.4411	Center Point
14-H64	1473346.1843	536005.4904	Center Point
14-H65	1473355.1644	536004.9127	Center Point
14-H66	1473354.2012	535989.9428	Center Point
14-H67	1473357.6941	535989.7179	Center Point
14-H68	1473362.6193	535988.3983	End Point
14-H69	1473380.0832	535987.2745	End Point
14-H70	1473385.1370	535987.9501	Center Point

	R E		Christina E. Hite, RLA #1340	
A <i>TE BY</i>	DESCRIPTION	DATE BY	DESCRIPTION	
				+ PARTNERS
				150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
				Certificate of Authorization No. LC00

Christina E. Hite, RLA #1340  DIX. HITE  + PARTNERS	DEP	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
T PARTNERS	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779	CFRC P2S	ORANGE	423446-9-52-01			

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH	
MEADOW WOODS STATION	
HARDSCAPE PLAN = 'L'	

SHEET NO.

#### H14.007M

# COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H71	1473390.9090	535987.5784	Center Point
14-H72	1473391.4769	535996.3982	Center Point
14-H73	1473398.8339	535994.5851	Center Point
14-H74	1473401.3548	535990.9186	End Point
14-H75	1473401.0309	535985.9257	End Point
14-H76	1473407.0183	535985.5372	Center Point
14-H77	1473407.3398	535990.5303	Center Point
14-H78	1473411.3082	535993.7841	Center Point
14-H79	1473414.6996	535987.5507	Center Point
14-H80	1473420.9892	535984.6406	End Point
14-H81	1473421.3133	535989.6301	End Point
14-H82	1473426.9792	535984.2519	Center Point
14-H83	1473427.2984	535989.2452	Center Point
14-H84	1473431.2669	535992.4989	Center Point
14-H85	1473434.6583	535986.2656	Center Point
14-H86	1473438.7513	535992.0154	Center Point
14-H87	1473441.2719	535988.3449	End Point
14-H88	1473440.9482	535983.3554	End Point
14-H89	1473446.9358	535982.9698	Center Point
14-H90	1473447.2571	535987.9595	Center Point
14-H91	1473451.4763	535991.1975	Center Point
14-H92	1473454.6170	535984.9808	Center Point
14-H93	1473460.9069	535982.0702	End Point
14-H94	1473461.2281	535987.0599	End Point
14-H95	1473458.4618	535990.7463	Center Point
14-H96	1473467.2158	535986.6749	Center Point
14-H97	1473466.8965	535981.6816	Center Point
14-H98	1473474.5756	535983.6953	Center Point
14-H99	1473471.1842	535989.9286	Center Point
14-H100	1473478.6664	535989.4468	Center Point
14-H101	1473479.0078	535970.8871	End Point
14-H102	1473480.2232	535970.8091	End Point
14-H103	1473485.2126	535970.4840	End Point
14-H104	1473510.6598	535968.8459	End Point
14-H105	1473511.1099	535975.8309	End Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H106	1473521.0895	535975.1887	End Point
14-H107	1473520.6397	535968.2032	End Point
14-H108	1473539.1101	535967.0136	End Point
14-H109	1473528.4869	535957.6771	End Point
14-H110	1473499.5390	535959.5413	End Point
14-H111	1473499.3783	535957.0457	End Point
14-H112	1473485.4073	535957.9460	Center Point
14-H113	1473485.5680	535960.4409	Center Point
14-H114	1473479.5804	535960.8264	End Point
14-H115	1473479.4116	535958.3316	End Point
14-H116	1473465.4487	535959.2312	Center Point
14-H117	1473465.6093	535961.7260	Center Point
14-H118	1473459.6217	535962.1116	End Point
14-H119	1473459.4610	535959.6162	End Point
14-H120	1473445.4900	535960.5163	Center Point
14-H121	1473445.6506	535963.0112	Center Point
14-H122	1473439.6630	535963.3967	End Point
14-H123	1473432.1683	535941.2506	Center Point
14-H124	1473425.1832	535941.7073	Center Point
14-H125	1473418.1982	535942.1657	Center Point
14-H126	1473411.2133	535942.6241	Center Point
14-H127	1473424.2689	535957.7640	End Point
14-H128	1473419.2793	535958.0854	End Point
14-H129	1473406.0887	535955.5379	End Point
14-H130	1473403.0949	535955.7307	End Point
14-H131	1473403.5447	535962.7162	End Point
14-H132	1473396.5591	535963.1660	End Point
14-H133	1473396.7519	535966.1598	End Point
14-H134	1473383.7877	535966.9946	End Point
14-H135	1473378.7980	535967.3159	End Point
14-H136	1473361.3342	535968.4398	End Point
14-H137	1473356.3445	535968.7611	End Point
14-H138	1473344.8689	535969.5006	Center Point
14-H139	1473345.3187	535976.4861	Center Point
14-H140	1473337.3350	535977.0002	End Point

			REVISIONS			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
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					!	
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Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD	NO.	COUNTY	FINANCIAL PROJECT ID	
CERC	P25	ORANGE	423446-9-52-01	

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUT
MEADOW WOODS STATION
HARDSCAPE PLAN = 'M'

SHEET NO.	
1533	_

:30am \\sei

#### H14.007N

# COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H141	1473336.8855	535970.0147	End Point
14-H142	1473319.4219	535971.1391	End Point
14-H143	1473319.8717	535978.1247	End Point
14-H144	1473311.8882	535978.6387	Center Point
14-H145	1473311.4384	535971.6532	Center Point
14-H146	1473300.4604	535972.3596	End Point
14-H147	1473293.4749	535972.8099	End Point
14-H148	1473283.9854	535973.4209	End Point
14-H149	1473277.2353	535961.8307	End Point
14-H150	1473272.2456	535962.1521	End Point
14-H151	1473276.5840	535951.4207	Center Point
14-H152	1473269.5989	535951.8774	Center Point
14-H153	1473262.6139	535952.3358	Center Point
14-H154	1473255.6290	535952.7942	Center Point
14-H155	1473257.7266	535970.1014	End Point
14-H156	1473252.7369	535970.4227	End Point
14-H157	1473251.0538	535975.5409	End Point
14-H158	1473238.0894	535976.3762	End Point
14-H159	1473233.0998	535976.6972	End Point
14-H160	1473218.1308	535977.6613	End Point
14-H161	1473213.1411	535977.9826	End Point
14-H162	1473208.1518	535978.3037	End Point
14-H163	1473198.1725	535978.9473	End Point
14-H164	1473193.1824	535979.2678	End Point
14-H165	1473178.2134	535980.2317	End Point
14-H166	1473173.2238	535980.5529	End Point
14-H167	1473158.2548	535981.5170	End Point
14-H168	1473153.2651	535981.8383	End Point
14-H169	1473138.2961	535982.8018	End Point
14-H170	1473133.3065	535983.1235	End Point
14-H171	1473123.3189	535983.7666	End Point
14-H172	1473114.6246	536004.3677	End Point
14-H173	1473134.5916	536003.0819	End Point
14-H174	1473139.5812	536002.7601	End Point
14-H175	1473139.7419	536005.2549	End Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H176	1473154.7109	536004.2916	End Point
14-H177	1473154.5503	536001.7968	End Point
14-H178	1473160.5379	536001.4112	Center Point
14-H179	1473160.6985	536003.9061	Center Point
14-H180	1473174.6696	536003.0064	End Point
14-H181	1473174.5089	536000.5116	End Point
14-H182	1473180.4965	536000.1261	Center Point
14-H183	1473180.6572	536002.6209	Center Point
14-H184	1473194.6282	536001.7213	End Point
14-H185	1473194.4676	535999.2264	End Point
14-H186	1473200.4552	535998.8409	Center Point
14-H187	1473200.6158	536001.3357	Center Point
14-H188	1473214.5869	536000.4356	End Point
14-H189	1473214.4263	535997.9413	End Point
14-H190	1473220.4487	535997.5535	Center Point
14-H191	1473220.6093	536000.0484	Center Point
14-H192	1473234.5456	535999.1510	End Point
14-H193	1473234.3852	535996.6561	End Point
14-H194	1473240.3725	535996.2706	Center Point
14-H195	1473241.0794	536007.2479	Center Point
14-H196	1473254.3434	535995.3710	End Point
14-H197	1473259.3306	535995.0474	End Point
14-H198	1473254.6650	536000.3631	End Point
14-H199	1473259.6545	536000.0394	End Point
14-H200	1473274.6260	535999.0754	End Point
14-H201	1473279.6132	535998.7542	End Point
14-H202	1473274.3023	535994.0858	End Point
14-H203	1473279.2895	535993.7647	End Point
14-H204	1473287.4833	536004.2599	Center Point
14-H205	1473287.6437	536006.7509	Center Point
14-H206	1473295.6271	536006.2369	Center Point
14-H207	1473302.6767	536006.7812	End Point
14-H208	1473312.8521	535993.6072	Center Point
14-H209	1473320.8318	535993.0895	End Point
14-H210	1473321.2854	536000.0792	End Point

Christina E. Hite		S 10 N S	REVIS		
	DESCRIPTION	DATE BY	DESCRIPTION	BY	ATE
+ PARTN					
150 W. JESSUP LONGWOOD, TEL 407.66 FAX 407.66					
Certificate of Authoriza					

Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION						
ROAD NO.		COUNTY	FINANCIAL PROJECT ID			
CFRC	P2S	ORANGE	423446-9-52-01			

NIKAL PLOKIDA COMMUI	EK KAIL TKANS	II (CFCRI) PHASE	2 300
MEADOW	WOODS	STATIO	N
HARDSC	APE PL	4N - 'N'	

SHEET NO.	
1534	_

## COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H211	1473313.3019	536000.5933	Center Point
14-H212	1473303.1914	536014.7754	<b>Center Point</b>
14-H213	1473315.1675	536014.0043	Center Point
14-H214	1473321.0898	536012.6162	End Point
14-H215	1473321.4111	536017.6074	End Point
14-H216	1473317.9183	536017.8323	Center Point
14-H217	1473318.8822	536032.8013	Center Point
14-H218	1473322.3749	536032.5764	End Point
14-H219	1473319.2034	536037.7909	Center Point
14-H220	1473322.6962	536037.5660	End Point
14-H221	1473323.6602	536052.5343	End Point
14-H222	1473320.1673	536052.7599	Center Point
14-H223	1473320.4886	536057.7496	Center Point
14-H224	1473323.9815	536057.5247	End Point
14-H225	1473324.9453	536072.4930	End Point
14-H226	1473321.4525	536072.7186	Center Point
14-H227	1473321.7737	536077.7083	Center Point
14-H228	1473325.2665	536077.4834	End Point
14-H229	1473326.2304	536092.4524	End Point
14-H230	1473322.7376	536092.6773	Center Point
14-H231	1473321.1759	535852.7698	End Point
14-H232	1473320.8548	535847.7799	End Point
14-H233	1473327.8401	535847.3303	End Point
14-H234	1473328.1293	535851.8210	Center Point
14-H235	1473341.1025	535850.9857	Center Point
14-H236	1473340.8153	535846.4948	End Point
14-H237	1473347.7988	535846.0451	End Point
14-H238	1473348.1201	535851.0348	End Point
14-H239	1473354.0997	535850.6499	End Point
14-H240	1473353.7784	535845.6602	End Point
14-H241	1473363.7632	535845.0172	End Point
14-H242	1473364.0845	535850.0070	End Point
14-H243	1473372.1323	535850.4910	Center Point
14-H244	1473371.7497	535844.5032	End Point

535832.5282

POINT NAME         NORTHING         EASTING         DESCRIPTION           14-H246         1473388.9383         535831.3715         End Point           14-H247         1473386.7156         535843.5395         End Point           14-H248         1473390.0950         535843.5395         End Point           14-H249         1473399.1481         535847.7495         End Point           14-H250         1473407.5909         535886.7966         Center Point           14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535880.6348         Center Point           14-H255         1473437.7459         535840.6345         End Point           14-H256         1473437.7065         535841.8440         End Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.6756				
14-H247         1473386.7156         535843.5395         End Point           14-H248         1473390.0950         535849.3344         Center Point           14-H249         1473399.1481         535847.7495         End Point           14-H250         1473407.5909         535886.7966         Center Point           14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.7459         535840.2488         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         5358840.5589         End Point           14-H260         1473471.8363         535840.5589         End Point           14-H261         1473471.6756         535838.0641         End Point           14-H262         1473471.6756	POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H248         1473390.0950         535849.3344         Center Point           14-H249         1473399.1481         535847.7495         End Point           14-H250         1473407.5909         535886.7966         Center Point           14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473431.7575         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535883.9637         Center Point           14-H260         1473471.8363         535841.4585         Center Point           14-H261         1473471.8363         535841.4585         Center Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632	14-H246	1473388.9383	535831.3715	End Point
14-H249         1473399.1481         535847.7495         End Point           14-H250         1473407.5909         535886.7966         Center Point           14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         147347.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473451.7169         535839.3492         End Point           14-H259         1473451.7045         535838.9637         Center Point           14-H260         1473471.8363         535840.5589         End Point           14-H261         1473471.6756         535838.0641         End Point           14-H262         1473477.8239         535840.5785         Center Point           14-H263         1473477.8239	14-H247	1473386.7156	535843.5395	End Point
14-H250         1473407.5909         535886.7966         Center Point           14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.6345         End Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535839.933         Center Point           14-H260         1473471.8363         535840.5589         End Point           14-H261         1473471.6756         535838.0641         End Point           14-H262         1473477.6632         535837.6785         Center Point           14-H263         1473477.8239         535840.1733         Center Point           14-H264         1473491.7949	14-H248	1473390.0950	535849.3344	Center Point
14-H251         1473414.5765         535886.3485         Center Point           14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.6345         535839.2737         End Point           14-H266         1473491.6345	14-H249	1473399.1481	535847.7495	End Point
14-H252         1473421.5622         535885.9005         Center Point           14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.6345         535836.7829         End Point           14-H266         1473491.6345         535834.9192         End Point           14-H267         1473520.5831	14-H250	1473407.5909	535886.7966	Center Point
14-H253         1473428.5477         535885.4506         Center Point           14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.6345         535839.2737         End Point           14-H266         1473491.6345         535831.93273         End Point           14-H267         1473520.5831         535831.93076         End Point           14-H268         1473529.5989	14-H251	1473414.5765	535886.3485	Center Point
14-H254         1473431.7575         535840.6345         End Point           14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473520.5831         535821.0434         End Point           14-H270         1473502.4526	14-H252	1473421.5622	535885.9005	Center Point
14-H255         1473437.7459         535840.2488         Center Point           14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473520.5831         535831.9376         End Point           14-H270         1473502.4526         535818.0493         End Point           14-H271         1473495.6593	14-H253	1473428.5477	535885.4506	Center Point
14-H256         1473437.9065         535842.7437         Center Point           14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473520.5831         535831.9376         End Point           14-H270         1473502.4526         535818.0493         End Point           14-H271         1473495.6593         535818.4992         End Point           14-H272         1473495.6593         535	14-H254	1473431.7575	535840.6345	End Point
14-H257         1473451.8776         535841.8440         End Point           14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473520.5831         5358319.3076         End Point           14-H269         1473502.6454         535821.0434         End Point           14-H270         1473502.6456         535818.0493         End Point           14-H271         1473495.6593         535821.4930         End Point           14-H272         1473490.6702         53582	14-H255	1473437.7459	535840.2488	Center Point
14-H258         1473451.7169         535839.3492         End Point           14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473520.5831         5358319.3076         End Point           14-H269         1473502.6454         535821.0434         End Point           14-H270         1473502.6456         535818.0493         End Point           14-H271         1473495.6593         535821.4930         End Point           14-H272         1473490.6702         535815.2435         End Point           14-H273         1473494.7346         53580	14-H256	1473437.9065	535842.7437	Center Point
14-H259         1473457.7045         535838.9637         Center Point           14-H260         1473457.8652         535841.4585         Center Point           14-H261         1473471.8363         535840.5589         End Point           14-H262         1473471.6756         535838.0641         End Point           14-H263         1473477.6632         535837.6785         Center Point           14-H264         1473477.8239         535840.1733         Center Point           14-H265         1473491.7949         535839.2737         End Point           14-H266         1473491.6345         535836.7829         End Point           14-H267         1473520.5831         535834.9192         End Point           14-H268         1473529.5989         535819.3076         End Point           14-H269         1473502.6454         535821.0434         End Point           14-H270         1473502.4526         535818.0493         End Point           14-H271         1473495.6593         535821.4930         End Point           14-H272         1473495.6593         535821.8145         End Point           14-H273         1473490.6702         535815.2435         End Point           14-H275         1473494.7346         535809	14-H257	1473451.8776	535841.8440	End Point
14-H260       1473457.8652       535841.4585       Center Point         14-H261       1473471.8363       535840.5589       End Point         14-H262       1473471.6756       535838.0641       End Point         14-H263       1473477.6632       535837.6785       Center Point         14-H264       1473477.8239       535840.1733       Center Point         14-H265       1473491.7949       535839.2737       End Point         14-H266       1473491.6345       535836.7829       End Point         14-H267       1473520.5831       535834.9192       End Point         14-H268       1473529.5989       535819.3076       End Point         14-H269       1473502.6454       535821.0434       End Point         14-H270       1473502.4526       535818.0493       End Point         14-H271       1473495.6593       535818.4992       End Point         14-H272       1473495.6593       535821.8145       End Point         14-H273       1473490.6702       535815.2435       End Point         14-H274       1473490.2470       535815.2435       End Point         14-H275       1473487.1483       535809.9284       Center Point         14-H276       1473487.1483	14-H258	1473451.7169	535839.3492	End Point
14-H261       1473471.8363       535840.5589       End Point         14-H262       1473471.6756       535838.0641       End Point         14-H263       1473477.6632       535837.6785       Center Point         14-H264       1473477.8239       535840.1733       Center Point         14-H265       1473491.7949       535839.2737       End Point         14-H266       1473491.6345       535836.7829       End Point         14-H267       1473520.5831       535834.9192       End Point         14-H268       1473529.5989       535819.3076       End Point         14-H269       1473502.6454       535821.0434       End Point         14-H270       1473502.4526       535818.0493       End Point         14-H271       1473495.4670       535818.4992       End Point         14-H272       1473495.6593       535821.4930       End Point         14-H273       1473490.6702       535821.8145       End Point         14-H274       1473490.2470       535815.2435       End Point         14-H275       1473494.7346       535809.9284       Center Point         14-H276       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640	14-H259	1473457.7045	535838.9637	Center Point
14-H262       1473471.6756       535838.0641       End Point         14-H263       1473477.6632       535837.6785       Center Point         14-H264       1473477.8239       535840.1733       Center Point         14-H265       1473491.7949       535839.2737       End Point         14-H266       1473491.6345       535836.7829       End Point         14-H267       1473520.5831       535834.9192       End Point         14-H268       1473529.5989       535819.3076       End Point         14-H269       1473502.6454       535821.0434       End Point         14-H270       1473502.4526       535818.0493       End Point         14-H271       1473495.4670       535818.4992       End Point         14-H272       1473495.6593       535821.4930       End Point         14-H273       1473490.6702       535821.8145       End Point         14-H274       1473490.2470       535815.2435       End Point         14-H275       1473494.7346       535809.1461       End Point         14-H276       1473487.1483       535809.9284       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365	14-H260	1473457.8652	535841.4585	Center Point
14-H263       1473477.6632       535837.6785       Center Point         14-H264       1473477.8239       535840.1733       Center Point         14-H265       1473491.7949       535839.2737       End Point         14-H266       1473491.6345       535836.7829       End Point         14-H267       1473520.5831       535834.9192       End Point         14-H268       1473529.5989       535819.3076       End Point         14-H269       1473502.6454       535821.0434       End Point         14-H270       1473502.4526       535818.0493       End Point         14-H271       1473495.4670       535818.4992       End Point         14-H272       1473495.6593       535821.4930       End Point         14-H273       1473490.6702       535821.8145       End Point         14-H274       1473490.2470       535815.2435       End Point         14-H275       1473494.7346       535809.1461       End Point         14-H276       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H261	1473471.8363	535840.5589	End Point
14-H2641473477.8239535840.1733Center Point14-H2651473491.7949535839.2737End Point14-H2661473491.6345535836.7829End Point14-H2671473520.5831535834.9192End Point14-H2681473529.5989535819.3076End Point14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H262	1473471.6756	535838.0641	End Point
14-H2651473491.7949535839.2737End Point14-H2661473491.6345535836.7829End Point14-H2671473520.5831535834.9192End Point14-H2681473529.5989535819.3076End Point14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H263	1473477.6632	535837.6785	Center Point
14-H2661473491.6345535836.7829End Point14-H2671473520.5831535834.9192End Point14-H2681473529.5989535819.3076End Point14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H264	1473477.8239	535840.1733	Center Point
14-H2671473520.5831535834.9192End Point14-H2681473529.5989535819.3076End Point14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H265	1473491.7949	535839.2737	End Point
14-H2681473529.5989535819.3076End Point14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H266	1473491.6345	535836.7829	End Point
14-H2691473502.6454535821.0434End Point14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H267	1473520.5831	535834.9192	End Point
14-H2701473502.4526535818.0493End Point14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473483.8182535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H268	1473529.5989	535819.3076	End Point
14-H2711473495.4670535818.4992End Point14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H269	1473502.6454	535821.0434	End Point
14-H2721473495.6593535821.4930End Point14-H2731473490.6702535821.8145End Point14-H2741473490.2470535815.2435End Point14-H2751473494.7346535809.1461End Point14-H2761473487.1483535809.9284Center Point14-H2771473483.8182535815.9881Center Point14-H2781473479.6640535810.4135Center Point14-H2791473476.1365535813.9776Center Point	14-H270	1473502.4526	535818.0493	End Point
14-H273       1473490.6702       535821.8145       End Point         14-H274       1473490.2470       535815.2435       End Point         14-H275       1473494.7346       535809.1461       End Point         14-H276       1473487.1483       535809.9284       Center Point         14-H277       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H271	1473495.4670	535818.4992	End Point
14-H274       1473490.2470       535815.2435       End Point         14-H275       1473494.7346       535809.1461       End Point         14-H276       1473487.1483       535809.9284       Center Point         14-H277       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H272	1473495.6593	535821.4930	End Point
14-H275       1473494.7346       535809.1461       End Point         14-H276       1473487.1483       535809.9284       Center Point         14-H277       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H273	1473490.6702	535821.8145	End Point
14-H276       1473487.1483       535809.9284       Center Point         14-H277       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H274	1473490.2470	535815.2435	End Point
14-H277       1473483.8182       535815.9881       Center Point         14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H275	1473494.7346	535809.1461	End Point
14-H278       1473479.6640       535810.4135       Center Point         14-H279       1473476.1365       535813.9776       Center Point	14-H276	1473487.1483	535809.9284	Center Point
14-H279 1473476.1365 535813.9776 Center Point	14-H277	1473483.8182	535815.9881	Center Point
	14-H278	1473479.6640	535810.4135	Center Point
14-H280 1473476.4579 535818.9678 Center Point	14-H279	1473476.1365	535813.9776	Center Point
	14-H280	1473476.4579	535818.9678	Center Point

		R E V	15 10 N S			Christina E. Hite, RLA #1340
4 <i>TE</i>	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						+ PARTNERS
						150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
						Certificate of Authorization No. LC00

1473370.9755

14-H245

Christina E. Hite, RLA #1340	
+ PARTNERS	
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779	

**End Point** 

	DEP	STATE OF FLOR PARTMENT OF TRAN	
ROAD	NO.	COUNTY	FINANCIAL PROJECT ID
CERC	P25	ORANGE	423446-9-52-01

NIKAL PLORIDA COMMUI	BR RAIL TRANS	II (CFCRI) I	HASE Z SUU
MEADOW	WOODS	STAT	ION
HARDSC	APE PL	AN -	<i>'O'</i>

SHEET NO.
/535

# COORDINATE DATA CHART (STATE PLANE C

ATE DATA CHART		
COORDINATE SYSTEM)		

POINT NAME         NORTHING         EASTING         DESCRIPTION           14-H281         1473470,4702         535819,3528         End Point           14-H282         1473470,1489         535814,3632         End Point           14-H283         1473467,1896         535811,2136         Center Point           14-H284         1473458,596         535817,2733         Center Point           14-H285         1473456,1779         535815,2628         Center Point           14-H287         1473456,4992         535820,2529         Center Point           14-H288         1473450,5142         535820,6413         End Point           14-H289         1473450,1903         535815,6483         End Point           14-H290         1473447,2310         535812,4987         Center Point           14-H291         1473443,9009         535818,5585         Center Point           14-H291         1473433,97467         535821,2939         Center Point           14-H292         1473436,5405         535821,5381         Center Point           14-H293         1473436,5405         535821,5381         Center Point           14-H295         1473430,5299         535821,5381         Center Point           14-H296         1473430,2316				
14-H282         1473470.1489         535814.3632         End Point           14-H283         1473467.1896         535811.2136         Center Point           14-H284         1473463.8596         535817.2733         Center Point           14-H285         1473459.7053         535811.6987         Center Point           14-H286         1473456.1779         535815.2628         Center Point           14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.5142         535820.6413         End Point           14-H289         1473450.51903         535815.6483         End Point           14-H290         1473447.2310         535812.4987         Center Point           14-H291         1473443.9009         535818.5585         Center Point           14-H292         147343.6.2190         535812.9839         Center Point           14-H293         1473436.5405         535821.5381         Center Point           14-H294         1473436.5405         535821.5381         Center Point           14-H295         1473430.5529         535821.9231         End Point           14-H296         1473430.2316         535816.9335         End Point           14-H297         1473426.5331 <td>POINT NAME</td> <td>NORTHING</td> <td>EASTING</td> <td>DESCRIPTION</td>	POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H283         1473467.1896         535811.2136         Center Point           14-H284         1473463.8596         535817.2733         Center Point           14-H285         1473459.7053         535811.6987         Center Point           14-H286         1473456.1779         535815.2628         Center Point           14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.5142         535820.6413         End Point           14-H289         1473450.51003         535815.6483         End Point           14-H290         1473447.2310         535812.4987         Center Point           14-H291         1473443.9009         535818.5585         Center Point           14-H292         1473433.62190         535816.5450         Center Point           14-H293         1473436.5405         535821.5381         Center Point           14-H294         1473430.5529         535821.9231         End Point           14-H295         1473430.2316         535816.9335         End Point           14-H296         1473430.2316         535819.8912         Center Point           14-H298         1473423.2031         535819.8912         Center Point           14-H300         1473415.3488<	14-H281	1473470.4702	535819.3528	End Point
14-H284         1473463.8596         535817.2733         Center Point           14-H285         1473459.7053         535811.6987         Center Point           14-H286         1473456.1779         535815.2628         Center Point           14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.1903         535815.6483         End Point           14-H289         14734450.1903         535815.6483         End Point           14-H290         1473443.9009         535812.4987         Center Point           14-H291         1473443.9009         535812.9839         Center Point           14-H292         1473430.7467         535812.9839         Center Point           14-H293         1473436.2190         535816.5450         Center Point           14-H294         1473436.5405         535821.5381         Center Point           14-H295         1473430.2316         535816.9335         End Point           14-H296         1473430.2316         535816.9335         End Point           14-H297         1473426.5331         535818.98912         Center Point           14-H298         1473419.0488         535814.3166         Center Point           14-H300         1473415.3488<	14-H282	1473470.1489	535814.3632	End Point
14-H285         1473459.7053         535811.6987         Center Point           14-H286         1473456.1779         535815.2628         Center Point           14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.5142         535820.6413         End Point           14-H289         1473450.1903         535815.6483         End Point           14-H290         1473443.9009         535812.4987         Center Point           14-H291         1473439.7467         535812.9839         Center Point           14-H292         1473439.7467         535812.9839         Center Point           14-H293         1473436.2190         535816.5450         Center Point           14-H294         1473436.5405         535821.9231         End Point           14-H295         1473430.5529         535821.9231         End Point           14-H296         1473430.2316         535816.9335         End Point           14-H297         1473423.2031         535813.8315         Center Point           14-H298         1473423.2031         535813.8315         Center Point           14-H300         1473415.3488         535826.6644         End Point           14-H300         1473396.8733	14-H283	1473467.1896	535811.2136	Center Point
14-H286         1473456.1779         535815.2628         Center Point           14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.5142         535820.6413         End Point           14-H289         1473450.1903         535815.6483         End Point           14-H290         1473447.2310         535812.4987         Center Point           14-H291         1473443.9009         535818.5585         Center Point           14-H292         1473439.7467         535812.9839         Center Point           14-H293         1473436.5190         535816.5450         Center Point           14-H294         1473436.5405         535821.5381         Center Point           14-H295         1473430.2316         535816.9335         End Point           14-H296         1473430.2316         535816.9335         End Point           14-H297         1473423.2031         535819.8912         Center Point           14-H298         1473423.2031         535814.3166         Center Point           14-H300         1473419.0488         535814.3166         Center Point           14-H300         1473396.8733         535827.8539         End Point           14-H302         1473396.3592	14-H284	1473463.8596	535817.2733	Center Point
14-H287         1473456.4992         535820.2529         Center Point           14-H288         1473450.5142         535820.6413         End Point           14-H289         1473450.1903         535815.6483         End Point           14-H290         1473447.2310         535812.4987         Center Point           14-H291         1473443.9009         535818.5585         Center Point           14-H292         1473439.7467         535812.9839         Center Point           14-H293         1473436.2190         535816.5450         Center Point           14-H294         1473436.5405         535821.5381         Center Point           14-H295         1473430.5529         535821.9231         End Point           14-H296         1473430.2316         535816.9335         End Point           14-H297         1473426.5331         535813.8315         Center Point           14-H298         1473423.2031         535819.8912         Center Point           14-H299         1473419.0488         535814.3166         Center Point           14-H300         1473415.3488         535826.6644         End Point           14-H301         1473396.8733         535827.8539         End Point           14-H302         1473396.3592	14-H285	1473459.7053	535811.6987	Center Point
14-H288       1473450.5142       535820.6413       End Point         14-H289       1473450.1903       535815.6483       End Point         14-H290       1473447.2310       535812.4987       Center Point         14-H291       1473439.009       535818.5585       Center Point         14-H292       1473439.7467       535812.9839       Center Point         14-H293       1473436.2190       535816.5450       Center Point         14-H294       1473430.5529       535821.5381       Center Point         14-H295       1473430.2316       535816.9335       End Point         14-H296       1473426.5331       535813.8315       Center Point         14-H297       1473426.5331       535819.8912       Center Point         14-H298       147347342.0331       535819.8912       Center Point         14-H309       1473415.3488       535826.6644       End Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.3592       535819.8704       End Point         14-H302       1473396.3592       535821.5510       End Point         14-H303       1473362.2847       535820.0645       End Point         14-H306       1473362.7987 <td>14-H286</td> <td>1473456.1779</td> <td>535815.2628</td> <td>Center Point</td>	14-H286	1473456.1779	535815.2628	Center Point
14-H289       1473450.1903       535815.6483       End Point         14-H290       1473447.2310       535812.4987       Center Point         14-H291       1473443.9009       535818.5585       Center Point         14-H292       1473439.7467       535812.9839       Center Point         14-H293       1473436.2190       535816.5450       Center Point         14-H294       1473430.5529       535821.5381       Center Point         14-H295       1473430.2316       535816.9335       End Point         14-H296       1473426.5331       535813.8315       Center Point         14-H297       1473426.5331       535819.8912       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H309       1473415.3488       535826.6644       End Point         14-H300       1473396.8733       535827.8539       End Point         14-H301       1473396.3592       535819.8704       End Point         14-H302       1473396.3592       535820.9088       End Point         14-H303       1473370.2642       535821.5510       End Point         14-H304       14733730.2642       535820.6045       End Point         14-H306       1473362.7987 <td>14-H287</td> <td>1473456.4992</td> <td>535820.2529</td> <td>Center Point</td>	14-H287	1473456.4992	535820.2529	Center Point
14-H290       1473447.2310       535812.4987       Center Point         14-H291       1473443.9009       535818.5585       Center Point         14-H292       1473439.7467       535812.9839       Center Point         14-H293       1473436.2190       535816.5450       Center Point         14-H294       1473436.5405       535821.5381       Center Point         14-H295       1473430.5529       535821.9231       End Point         14-H296       1473430.2316       535816.9335       End Point         14-H297       1473426.5331       535813.8315       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.3592       535819.8704       End Point         14-H302       1473396.3592       535820.9088       End Point         14-H303       1473370.2642       535821.5510       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535830.0480       End Point         14-H306       1473352.8143 <td>14-H288</td> <td>1473450.5142</td> <td>535820.6413</td> <td>End Point</td>	14-H288	1473450.5142	535820.6413	End Point
14-H291       1473443.9009       535818.5585       Center Point         14-H292       1473439.7467       535812.9839       Center Point         14-H293       1473436.2190       535816.5450       Center Point         14-H294       1473436.5405       535821.5381       Center Point         14-H295       1473430.5529       535821.9231       End Point         14-H296       1473430.2316       535816.9335       End Point         14-H297       1473426.5331       535813.8315       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.8733       535827.8539       End Point         14-H302       1473396.3592       535819.8704       End Point         14-H303       1473380.2329       535820.9088       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535820.0480       End Point         14-H306       1473352.8143       535830.0480       End Point         14-H308       1473352.4939	14-H289	1473450.1903	535815.6483	End Point
14-H2921473439.7467535812.9839Center Point14-H2931473436.2190535816.5450Center Point14-H2941473436.5405535821.5381Center Point14-H2951473430.5529535821.9231End Point14-H2961473430.2316535816.9335End Point14-H2971473426.5331535813.8315Center Point14-H2981473423.2031535819.8912Center Point14-H2991473419.0488535814.3166Center Point14-H3001473415.3488535826.6644End Point14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H290	1473447.2310	535812.4987	Center Point
14-H2931473436.2190535816.5450Center Point14-H2941473436.5405535821.5381Center Point14-H2951473430.5529535821.9231End Point14-H2961473430.2316535816.9335End Point14-H2971473426.5331535813.8315Center Point14-H2981473423.2031535819.8912Center Point14-H2991473419.0488535814.3166Center Point14-H3001473415.3488535826.6644End Point14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3091473352.8143535830.6909End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535826.5363End Point14-H3141473326.4761535826.1810End Point	14-H291	1473443.9009	535818.5585	Center Point
14-H294       1473436.5405       535821.5381       Center Point         14-H295       1473430.5529       535821.9231       End Point         14-H296       1473430.2316       535816.9335       End Point         14-H297       1473426.5331       535813.8315       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.8733       535827.8539       End Point         14-H302       1473396.3592       535819.8704       End Point         14-H303       1473380.2329       535820.9088       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535822.0645       End Point         14-H306       1473362.7987       535830.0480       End Point         14-H309       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.5192       End Point         14-H311       1473339.5276       535826.5363       End Point         14-H312       1473339.5276       <	14-H292	1473439.7467	535812.9839	Center Point
14-H295       1473430.5529       535821.9231       End Point         14-H296       1473430.2316       535816.9335       End Point         14-H297       1473426.5331       535813.8315       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.8733       535827.8539       End Point         14-H302       1473396.3592       535819.8704       End Point         14-H303       1473380.2329       535820.9088       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535822.0645       End Point         14-H306       1473362.7987       535830.0480       End Point         14-H307       1473352.8143       535830.6909       End Point         14-H308       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.5192       End Point         14-H311       1473339.5276       535826.5363       End Point         14-H313       1473339.4508	14-H293	1473436.2190	535816.5450	Center Point
14-H2961473430.2316535816.9335End Point14-H2971473426.5331535813.8315Center Point14-H2981473423.2031535819.8912Center Point14-H2991473419.0488535814.3166Center Point14-H3001473415.3488535826.6644End Point14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.9609535833.0078Center Point14-H3101473347.9609535833.0078Center Point14-H3111473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H294	1473436.5405	535821.5381	Center Point
14-H297       1473426.5331       535813.8315       Center Point         14-H298       1473423.2031       535819.8912       Center Point         14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.8733       535827.8539       End Point         14-H302       1473396.3592       535819.8704       End Point         14-H303       1473380.2329       535820.9088       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535822.0645       End Point         14-H306       1473362.7987       535830.0480       End Point         14-H307       1473352.8143       535830.6909       End Point         14-H308       1473352.4939       535825.7021       End Point         14-H309       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.0078       Center Point         14-H311       1473339.5276       535826.5363       End Point         14-H312       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       <	14-H295	1473430.5529	535821.9231	End Point
14-H2981473423.2031535819.8912Center Point14-H2991473419.0488535814.3166Center Point14-H3001473415.3488535826.6644End Point14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H296	1473430.2316	535816.9335	End Point
14-H299       1473419.0488       535814.3166       Center Point         14-H300       1473415.3488       535826.6644       End Point         14-H301       1473396.8733       535827.8539       End Point         14-H302       1473396.3592       535819.8704       End Point         14-H303       1473380.2329       535820.9088       End Point         14-H304       1473370.2642       535821.5510       End Point         14-H305       1473362.2847       535822.0645       End Point         14-H306       1473362.7987       535830.0480       End Point         14-H307       1473352.8143       535830.6909       End Point         14-H308       1473352.4939       535825.7021       End Point         14-H309       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.0078       Center Point         14-H311       1473339.5276       535826.5363       End Point         14-H312       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H297	1473426.5331	535813.8315	Center Point
14-H3001473415.3488535826.6644End Point14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.9609535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535826.5363End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H298	1473423.2031	535819.8912	Center Point
14-H3011473396.8733535827.8539End Point14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H299	1473419.0488	535814.3166	Center Point
14-H3021473396.3592535819.8704End Point14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H300	1473415.3488	535826.6644	End Point
14-H3031473380.2329535820.9088End Point14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H301	1473396.8733	535827.8539	End Point
14-H3041473370.2642535821.5510End Point14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H302	1473396.3592	535819.8704	End Point
14-H3051473362.2847535822.0645End Point14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H303	1473380.2329	535820.9088	End Point
14-H3061473362.7987535830.0480End Point14-H3071473352.8143535830.6909End Point14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H304	1473370.2642	535821.5510	End Point
14-H307       1473352.8143       535830.6909       End Point         14-H308       1473352.4939       535825.7021       End Point         14-H309       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.0078       Center Point         14-H311       1473340.0191       535833.5192       End Point         14-H312       1473339.5276       535826.5363       End Point         14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H305	1473362.2847	535822.0645	End Point
14-H3081473352.4939535825.7021End Point14-H3091473347.5111535826.0223Center Point14-H3101473347.9609535833.0078Center Point14-H3111473340.0191535833.5192End Point14-H3121473339.5276535826.5363End Point14-H3131473339.4508535825.3391End Point14-H3141473326.4761535826.1810End Point	14-H306	1473362.7987	535830.0480	End Point
14-H309       1473347.5111       535826.0223       Center Point         14-H310       1473347.9609       535833.0078       Center Point         14-H311       1473340.0191       535833.5192       End Point         14-H312       1473339.5276       535826.5363       End Point         14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H307	1473352.8143	535830.6909	End Point
14-H310       1473347.9609       535833.0078       Center Point         14-H311       1473340.0191       535833.5192       End Point         14-H312       1473339.5276       535826.5363       End Point         14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H308	1473352.4939	535825.7021	End Point
14-H311       1473340.0191       535833.5192       End Point         14-H312       1473339.5276       535826.5363       End Point         14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H309	1473347.5111	535826.0223	Center Point
14-H312       1473339.5276       535826.5363       End Point         14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H310	1473347.9609	535833.0078	Center Point
14-H313       1473339.4508       535825.3391       End Point         14-H314       1473326.4761       535826.1810       End Point	14-H311	1473340.0191	535833.5192	End Point
14-H314 1473326.4761 535826.1810 End Point	14-H312	1473339.5276	535826.5363	End Point
	14-H313	1473339.4508	535825.3391	End Point
14-H315 1473326.5528 535827.3718 End Point	14-H314	1473326.4761	535826.1810	End Point
	14-H315	1473326.5528	535827.3718	End Point

POINT NAME         NORTHING         EASTING         DESCRIPTION           14-H316         1473327.0026         535834.3573         End Point           14-H317         1473319.0205         535834.8713         Center Point           14-H318         1473318.5707         535827.8858         Center Point           14-H319         1473306.5899         535828.6542         End Point           14-H320         1473301.6002         535828.9750         End Point           14-H321         1473283.7856         535830.1256         End Point           14-H322         1473283.6245         535827.6231         End Point           14-H322         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.8663         535828.9159         End Point           14-H327         1473249.6952         535832.3104         Center Point           14-H328         1473249.6952         535832.3104         Center Point           14-H330         1473243.8683         535802.011         End Point           14-H331         1473229.7366         5358				
14-H317         1473319.0205         535834.8713         Center Point           14-H318         1473318.5707         535827.8858         Center Point           14-H319         1473306.5899         535828.6542         End Point           14-H320         1473301.6002         535828.9750         End Point           14-H321         1473283.7856         535830.1256         End Point           14-H322         1473283.6245         535827.6231         End Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535828.9159         End Point           14-H326         1473263.8269         535829.8155         Center Point           14-H327         1473249.8559         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H330         1473243.8683         535832.3104         Center Point           14-H331         1473229.8972         535833.5955         Center Point           14-H331         1473229.8972         535833.5955         Center Point           14-H333         1473223.995	POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H318         1473318.5707         535827.8858         Center Point           14-H319         1473306.5899         535828.6542         End Point           14-H320         1473301.6002         535828.9750         End Point           14-H321         1473283.7856         535828.9750         End Point           14-H322         1473283.6245         535828.5304         Center Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.8269         535831.4109         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.0001         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.9808         End Point           14-H333         1473223.2995         535824.5007         End Point           14-H334         1473223.3198         <	14-H316	1473327.0026	535834.3573	End Point
14-H319         1473306.5899         535828.6542         End Point           14-H320         1473301.6002         535828.9750         End Point           14-H321         1473283.7856         535830.1256         End Point           14-H322         1473283.6245         535827.6231         End Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473223.2995         535832.5807         End Point           14-H333         1473223.2995         535824.5007         End Point           14-H334         14732203.7567         53	14-H317	1473319.0205	535834.8713	Center Point
14-H320         1473301.6002         535828.9750         End Point           14-H321         1473283.7856         535830.1256         End Point           14-H322         1473283.6245         535827.6231         End Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.9955         Center Point           14-H333         1473223.2995         535824.5007         End Point           14-H334         1473223.2995         535832.1288         End Point           14-H335         1473213.7696	14-H318	1473318.5707	535827.8858	Center Point
14-H321         1473283.7856         535830.1256         End Point           14-H322         1473283.6245         535827.6231         End Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.5955         Center Point           14-H333         1473223.9096         535833.9808         End Point           14-H334         1473223.995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.7696         5	14-H319	1473306.5899	535828.6542	End Point
14-H322         1473283.6245         535827.6231         End Point           14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473249.6952         535828.9159         End Point           14-H327         1473249.8559         535832.3104         Center Point           14-H328         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.9808         End Point           14-H333         1473223.9996         535833.9808         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.7696         535832.1288         End Point           14-H336         1473213.7696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H340         1473203.9509         535	14-H320	1473301.6002	535828.9750	End Point
14-H323         1473269.6539         535828.5304         Center Point           14-H324         1473269.8145         535831.0252         Center Point           14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473223.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.5955         Center Point           14-H333         1473223.9096         535833.9088         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.7696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H338         1473203.9509         <	14-H321	1473283.7856	535830.1256	End Point
14-H324       1473269.8145       535831.0252       Center Point         14-H325       1473263.8269       535831.4109       End Point         14-H326       1473263.6663       535828.9159       End Point         14-H327       1473249.6952       535829.8155       Center Point         14-H328       1473249.8559       535832.3104       Center Point         14-H329       1473243.8683       535832.6960       End Point         14-H330       1473229.7366       535830.2011       End Point         14-H331       1473229.7366       535831.1007       Center Point         14-H332       1473229.8972       535833.5955       Center Point         14-H333       1473223.2995       535832.9808       End Point         14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H338       1473209.7779       535832.3858       Center Point         14-H340       1473203.7567       535832.2726       End Point         14-H340       1473203.7567       535832.7404       End Point         14-H342       1473168.8310	14-H322	1473283.6245	535827.6231	End Point
14-H325         1473263.8269         535831.4109         End Point           14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.7076         535830.2011         End Point           14-H330         1473229.7366         535831.1007         Center Point           14-H331         1473229.8972         535833.5955         Center Point           14-H332         1473223.9096         535833.9808         End Point           14-H333         1473223.2995         535824.5007         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.7696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H338         1473203.9509         535832.2726         End Point           14-H340         1473203.7567         535832.27404         End Point           14-H341         1473166.6243         53	14-H323	1473269.6539	535828.5304	Center Point
14-H326         1473263.6663         535828.9159         End Point           14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.5955         Center Point           14-H333         1473223.9996         535833.9808         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.37696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H338         1473209.9385         535832.2726         End Point           14-H340         1473203.7567         535832.2726         End Point           14-H341         1473196.6243         535832.7404         End Point           14-H342         1473168.8310         53	14-H324	1473269.8145	535831.0252	Center Point
14-H327         1473249.6952         535829.8155         Center Point           14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.5955         Center Point           14-H333         1473223.9096         535833.9808         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.7696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H338         1473209.9385         535835.2662         End Point           14-H339         1473203.7567         535832.2726         End Point           14-H340         1473203.7567         535832.2726         End Point           14-H342         1473166.6418         535833.3829         End Point           14-H343         1473168.8310         535	14-H325	1473263.8269	535831.4109	End Point
14-H328         1473249.8559         535832.3104         Center Point           14-H329         1473243.8683         535832.6960         End Point           14-H330         1473243.7076         535830.2011         End Point           14-H331         1473229.7366         535831.1007         Center Point           14-H332         1473229.8972         535833.5955         Center Point           14-H333         1473223.9096         535833.9808         End Point           14-H334         1473223.2995         535824.5007         End Point           14-H335         1473213.3198         535825.1433         End Point           14-H336         1473213.7696         535832.1288         End Point           14-H337         1473209.7779         535832.3858         Center Point           14-H338         1473209.9385         535835.2662         End Point           14-H340         1473203.7567         535832.2726         End Point           14-H341         1473196.6243         535832.7404         End Point           14-H342         1473168.8310         535833.3829         End Point           14-H343         1473169.0237         535833.3829         End Point           14-H344         1473169.0237         535837	14-H326	1473263.6663	535828.9159	End Point
14-H329       1473243.8683       535832.6960       End Point         14-H330       1473243.7076       535830.2011       End Point         14-H331       1473229.7366       535831.1007       Center Point         14-H332       1473229.8972       535833.5955       Center Point         14-H333       1473223.9096       535833.9808       End Point         14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473209.9385       535834.8807       Center Point         14-H339       1473203.9509       535835.2662       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473166.6243       535833.3829       End Point         14-H342       1473168.8310       535837.5150       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.5365       End Point         14-H346       1473163.8734	14-H327	1473249.6952	535829.8155	Center Point
14-H330       1473243.7076       535830.2011       End Point         14-H331       1473229.7366       535831.1007       Center Point         14-H332       1473229.8972       535833.5955       Center Point         14-H333       1473223.9096       535833.9808       End Point         14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473209.9385       535834.8807       Center Point         14-H349       1473203.7567       535832.2726       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473196.6243       535832.7404       End Point         14-H342       1473186.6418       535833.3829       End Point         14-H343       1473168.8310       535837.5150       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019	14-H328	1473249.8559	535832.3104	Center Point
14-H331       1473229.7366       535831.1007       Center Point         14-H332       1473229.8972       535833.5955       Center Point         14-H333       1473223.9096       535833.9808       End Point         14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473203.9509       535835.2662       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473196.6243       535832.7404       End Point         14-H342       1473186.6418       535833.3829       End Point         14-H343       1473168.8310       535834.5300       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625	14-H329	1473243.8683	535832.6960	End Point
14-H332       1473229.8972       535833.5955       Center Point         14-H333       1473223.9096       535833.9808       End Point         14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473209.9385       535834.8807       Center Point         14-H339       1473203.9509       535835.2662       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473196.6243       535832.7404       End Point         14-H342       1473186.6418       535833.3829       End Point         14-H343       1473168.8310       535834.5300       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473144.0754	14-H330	1473243.7076	535830.2011	End Point
14-H3331473223.9096535833.9808End Point14-H3341473223.2995535824.5007End Point14-H3351473213.3198535825.1433End Point14-H3361473213.7696535832.1288End Point14-H3371473209.7779535832.3858Center Point14-H3381473209.9385535834.8807Center Point14-H3391473203.9509535835.2662End Point14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H331	1473229.7366	535831.1007	Center Point
14-H334       1473223.2995       535824.5007       End Point         14-H335       1473213.3198       535825.1433       End Point         14-H336       1473213.7696       535832.1288       End Point         14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473209.9385       535834.8807       Center Point         14-H339       1473203.9509       535835.2662       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473196.6243       535832.7404       End Point         14-H342       1473186.6418       535833.3829       End Point         14-H343       1473168.8310       535834.5300       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H332	1473229.8972	535833.5955	Center Point
14-H3351473213.3198535825.1433End Point14-H3361473213.7696535832.1288End Point14-H3371473209.7779535832.3858Center Point14-H3381473209.9385535834.8807Center Point14-H3391473203.9509535835.2662End Point14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H333	1473223.9096	535833.9808	End Point
14-H3361473213.7696535832.1288End Point14-H3371473209.7779535832.3858Center Point14-H3381473209.9385535834.8807Center Point14-H3391473203.9509535835.2662End Point14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H334	1473223.2995	535824.5007	End Point
14-H337       1473209.7779       535832.3858       Center Point         14-H338       1473209.9385       535834.8807       Center Point         14-H339       1473203.9509       535835.2662       End Point         14-H340       1473203.7567       535832.2726       End Point         14-H341       1473196.6243       535832.7404       End Point         14-H342       1473186.6418       535833.3829       End Point         14-H343       1473168.8310       535834.5300       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H335	1473213.3198	535825.1433	End Point
14-H3381473209.9385535834.8807Center Point14-H3391473203.9509535835.2662End Point14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H336	1473213.7696	535832.1288	End Point
14-H3391473203.9509535835.2662End Point14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H337	1473209.7779	535832.3858	Center Point
14-H3401473203.7567535832.2726End Point14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H338	1473209.9385	535834.8807	Center Point
14-H3411473196.6243535832.7404End Point14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H339	1473203.9509	535835.2662	End Point
14-H3421473186.6418535833.3829End Point14-H3431473168.8310535834.5300End Point14-H3441473169.0237535837.5150End Point14-H3451473164.0331535837.8365End Point14-H3461473163.8734535835.3414End Point14-H3471473149.9019535836.2413Center Point14-H3481473150.0625535838.7361Center Point14-H3491473144.0754535839.1216End Point	14-H340	1473203.7567	535832.2726	End Point
14-H343       1473168.8310       535834.5300       End Point         14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H341	1473196.6243	535832.7404	End Point
14-H344       1473169.0237       535837.5150       End Point         14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H342	1473186.6418	535833.3829	End Point
14-H345       1473164.0331       535837.8365       End Point         14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H343	1473168.8310	535834.5300	End Point
14-H346       1473163.8734       535835.3414       End Point         14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H344	1473169.0237	535837.5150	End Point
14-H347       1473149.9019       535836.2413       Center Point         14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H345	1473164.0331	535837.8365	End Point
14-H348       1473150.0625       535838.7361       Center Point         14-H349       1473144.0754       535839.1216       End Point	14-H346	1473163.8734	535835.3414	End Point
14-H349 1473144.0754 535839.1216 End Point	14-H347	1473149.9019	535836.2413	Center Point
	14-H348	1473150.0625	535838.7361	Center Point
14-H350 1473143.9147 535836.6266 End Point	14-H349	1473144.0754	535839.1216	End Point
	14-H350	1473143.9147	535836.6266	End Point

Christina E. Hite, RLA #134			EVISIONS			
	DESCRIPTION	BY	DATE	DESCRIPTION	BY	ATE
+ PARTNERS						
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779						
Certificate of Authorization No. 1		l				

na E. Hite, RLA #1340	DE	STATE OF FLO PARTMENT OF TRAN	
	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
ARTNERS  W. JESSUP AVENUE GWOOD FLORIDA L 407.667.1777 X 407.667.1777 Authorization No. I C0000358	CFRC P2S	ORANGE	423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION HARDSCAPE PLAN - 'P'

SHEET NO. 1536

#### HI4.007Q

## COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H351	1473129.9432	535837.5264	Center Point
14-H352	1473130.1039	535840.0213	Center Point
14-H353	1473124.1163	535840.4068	End Point
14-H354	1473099.6580	535841.9815	End Point
14-H355	1473110.9225	535861.2978	End Point
14-H356	1473125.4014	535860.3655	End Point
14-H357	1473131.3896	535859.9799	Center Point
14-H358	1473131.5502	535862.4747	Center Point
14-H359	1473145.5213	535861.5751	End Point
14-H360	1473145.3606	535859.0803	End Point
14-H361	1473151.3482	535858.6948	Center Point
14-H362	1473151.5089	535861.1896	Center Point
14-H363	1473165.4799	535860.2900	End Point
14-H364	1473165.3193	535857.7949	End Point
14-H365	1473171.3069	535857.4096	Center Point
14-H366	1473171.4675	535859.9044	Center Point
14-H367	1473172.6265	535862.3351	End Point
14-H368	1473179.5239	535862.8931	Center Point
14-H369	1473179.1385	535856.9082	End Point
14-H370	1473178.3674	535844.9330	End Point
14-H371	1473197.3282	535843.7121	End Point
14-H372	1473197.6495	535848.7018	End Point
14-H373	1473194.6557	535848.8946	End Point
14-H374	1473195.1055	535855.8801	End Point
14-H375	1473198.4846	535861.6722	Center Point
14-H376	1473205.5583	535860.2146	End Point
14-H377	1473205.2370	535855.2248	End Point
14-H378	1473211.2242	535854.8393	<b>Center Point</b>
14-H379	1473211.3849	535857.3341	Center Point
14-H380	1473225.3559	535856.4345	End Point
14-H381	1473225.1956	535853.9394	End Point
14-H382	1473230.1850	535853.6184	End Point
14-H383	1473243.1491	535852.7833	End Point
14-H384	1473276.0809	535850.6631	End Point
14-H385	1473285.0713	535850.0842	End Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
14-H386	1473290.0610	535849.7629	End Point
14-H387	1473290.3823	535854.7526	End Point
14-H388	1473270.7453	535861.0274	End Point
14-H389	1473265.7556	535861.3488	End Point
14-H390	1473272.9532	535895.4716	Center Point
14-H391	1473265.9676	535895.9214	Center Point
14-H392	1473258.9820	535896.3695	Center Point
14-H393	1473251.9963	535896.8175	Center Point
14-H394	1473251.5579	535874.2877	End Point
14-H395	1473246.5682	535874.6091	End Point
14-H396	1473200.3794	535881.1060	End Point
14-H397	1473191.0427	535891.7280	End Point
14-H398	1473130.1689	535895.6486	End Point
14-H399	1473112.5615	535886.7618	End Point
14-H400	1473103.2261	535897.3838	End Point
14-H401	1473094.2433	535897.9623	End Point
14-H402	1473418.7926	535993.3005	Center Point

		R F V	1S 10 N S			Christina E. Hite, RLA #1340
ATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						+ PARTNERS
						150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
						Certificate of Authorization No. LC00003

DEP	STATE OF FLOR ARTMENT OF TRAN	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S ORANGE		423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION HARDSCAPE PLAN - 'Q'

SHEET NO.

1537

H20.722

	MEADOW WOODS STATION MATERIALS SCHEDULE							
ITEM #	ITEM	COLOR(S)	DESCRIPTION	DETAIL REFERENCE				
01	Plaza Bench (B-2)	Federal Standard Color - 1(Gloss)-7(Silver)	67" Length, Steel With Optional Center Armrest, Surface Mount; See Hardscape Drawings For Locations.	2/H20.718				
02	Platform Bench (B-1)	Federal Standard Color - 1(Gloss)-7(Silver)	72" Length, Steel With Optional Center Armrest, Surface Mount; See Architectural Drawings For Locations.	1/H20.718				
03	Trash Receptacle (TR-2)	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	30 Gallon, Side Unloading With Fixed Top, Surface Mount; See Architectural and Hardscape Drawings For Locations.	H20.720				
04	Bike Rack (BR-1)	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	Double Bike Hitch, In-Ground Mount; See Hardscape Drawings For Locations.	1/H20.721				
05	Stamped Colored Asphalt Crosswalks	Dark Red Or Approved Equal	Field: 45 Degree Herringbone 4"x8" Brick Pattern; Header: Single 8" Brick Pattern Header; See Hardscape Details.	H20.701				
06	Stamped Colored Concrete Crosswalks	Brick Red Color Hardener, Deep Charcoal Release Or Approved Equal	Pattern: 45 Degree Herringbone with a Soldier Border; Semi Gloss Seal; See Hardscape Details.	H20.701				
07	Paver Banding at Plaza	Autumn Blend Or Approved Equal	4" x 8" Concrete Paver, 15 Rows Wide, Running Bond Pattern; See Hardscape Details.	H20.703				
08	Platform Paver	Match Architect Sample (Autumn Blend) Or Approved Equal	See Architectural Drawings For Specified Pattern.	A20.401				
09	Tree Planter Gravel	Buff Or Approved Equal	1/8" - 1/2" Gravel, 3" Depth Layer Mixed With Concrete; See Hardscape Details; See Specification For Proportions.	H20.705				
10	Hazard Gravel	Gray Or Approved Equal	6" -10" Granite Rip-Rap Or Approved Equal; Stones Are Rough and Angular; See Hardscape Drawings For Locations.					
11	Vinyl Coated Chain Link Fence	Federal Standard Color - 2(Semi-Gloss)-7(Black)	Steel Galvanized Round End And Line Posts, 8' O.C. Spacing. 2" Galvanized Chain Link Mesh With PVC Coating And Top Rail.	1/H20.711				
12	Decorative Picket Fence	Federal Standard Color - 2(Semi-Gloss)-7(Black)	Fusion Welded Steel Construction, Manufacturer's Inline Electodeposition Coating.	2/H20.711				
13	Steel Bollard	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	Embedded; Rounded Concrete Top Shall Receive High Performance Painted Finish.	1/H20.715				
14	Canopy Steel Structure	Match Architect Sample (Constellation 44GR) RGB 208,209,210	Painted, High Performance Coating.	A20.501				
15	Structural Metal Deck	Match Architect Sample (White 00WH) RGB 248,253,254	Painted, High Performance Coating.	A20.501				
16	Standing Seam Roof	Match Architect Sample (Everglade) RGB 55,78,69	16.5" Rib Spacing, 1" Profile; Painted, High Performance Coating.	A20.501				
17	Handrails/Guardrails (R-1)	Federal Standard Color - 2(Semi-Gloss)-7(Black)	Steel Fabricated Railing; See Architectural Details.	A20.790, A20.791				
18	ADA Water Fountain	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	Steel Drinking Fountain With Textured Powder Coated Finish; See Architectural Drawings For Locations.	P15.204				
19	12' Plaza/Platform Light	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	See Electrical Drawings For Locations.	E14.001				
20	24' Parking Light	Federal Standard Color - 2(Semi-Gloss)-7(Silver)	See Electrical Drawings For Locations.	E14.001				

$R \ E \ V \ I S \ IO \ N \ S$							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		

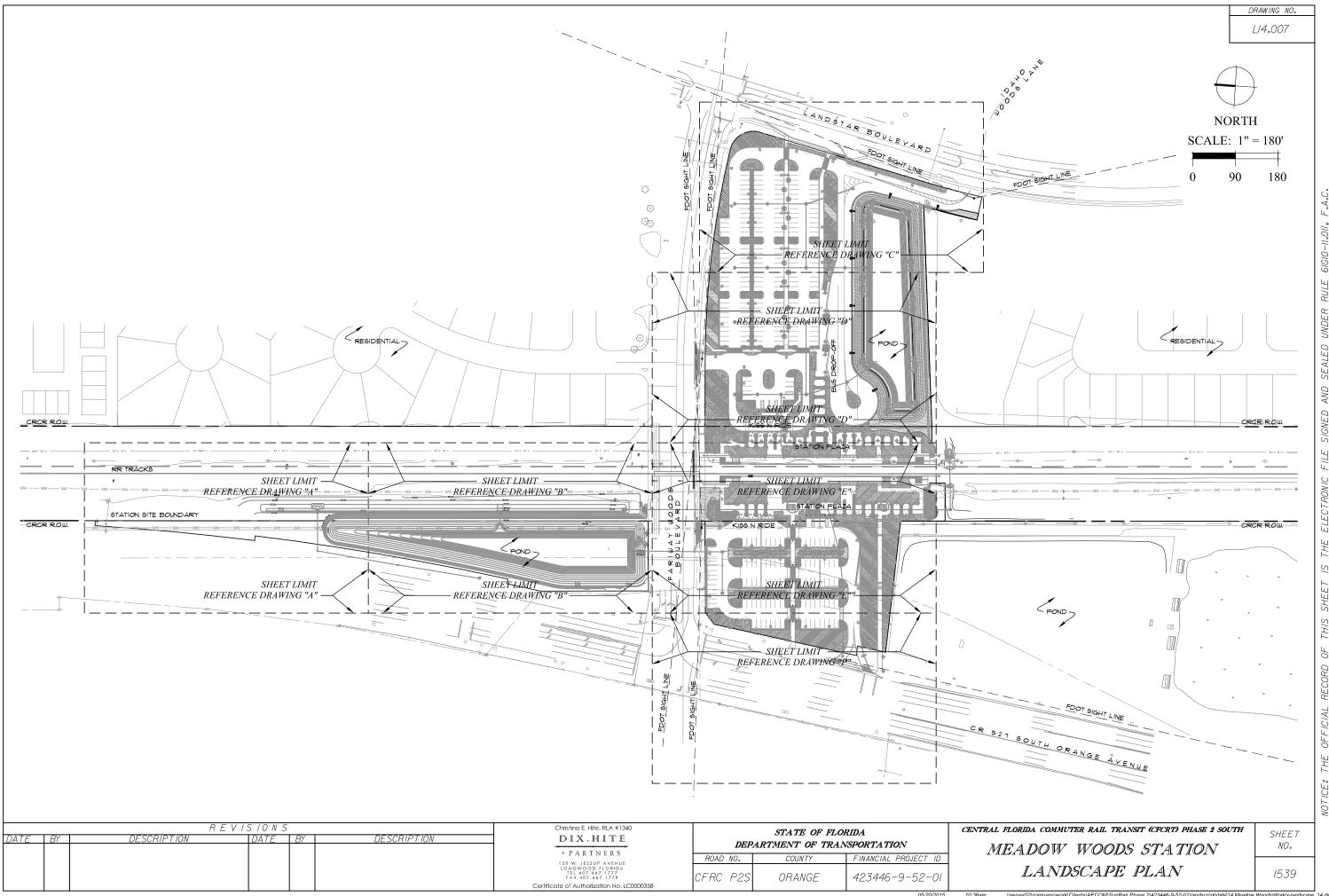
Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
Certificate of Authorization No. LC00003

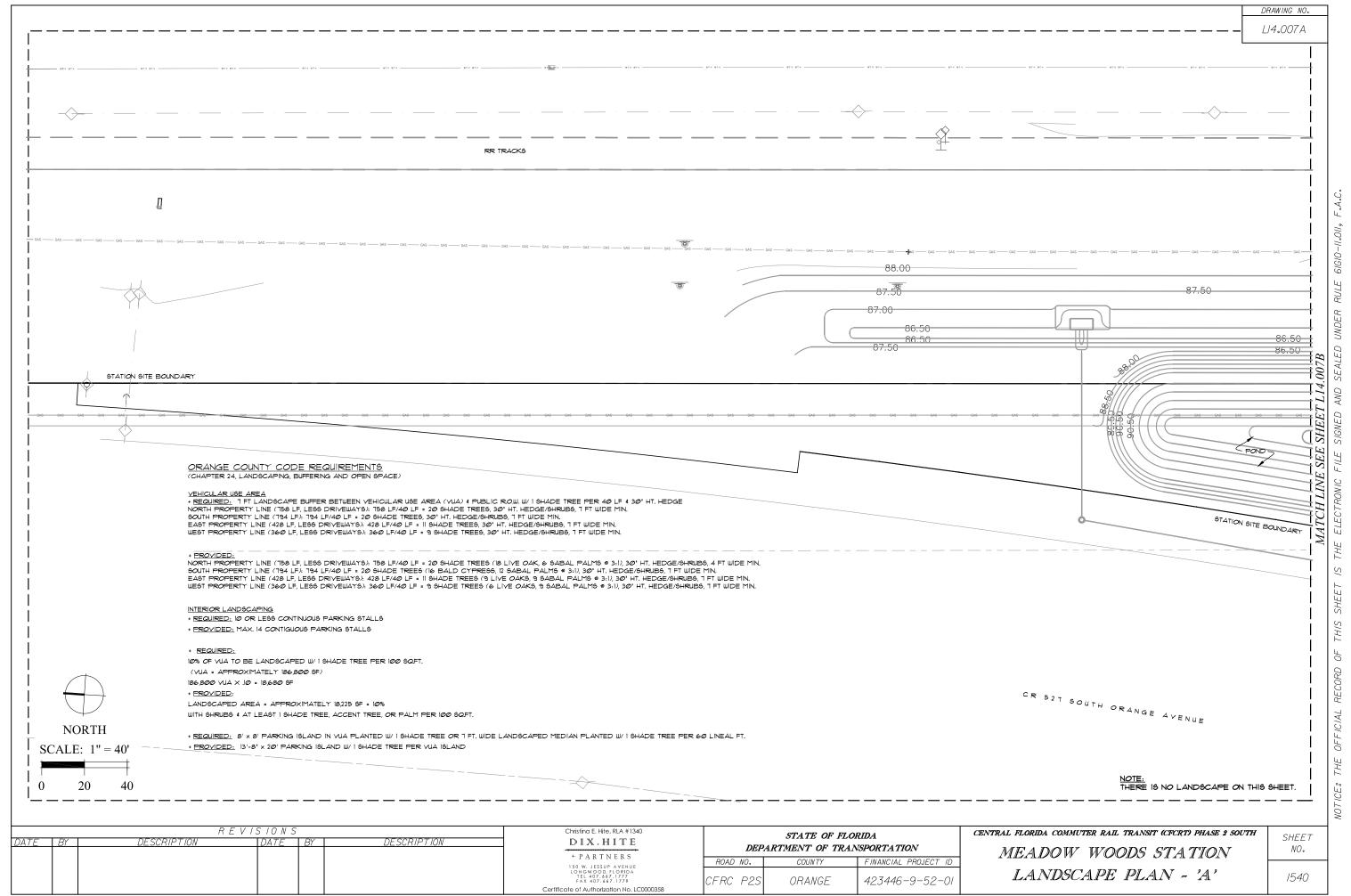
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ROAD NO.	COUNTY	FINANCIAL PROJECT I					
SERC P2S	ORANGE	423446-9-52-0					

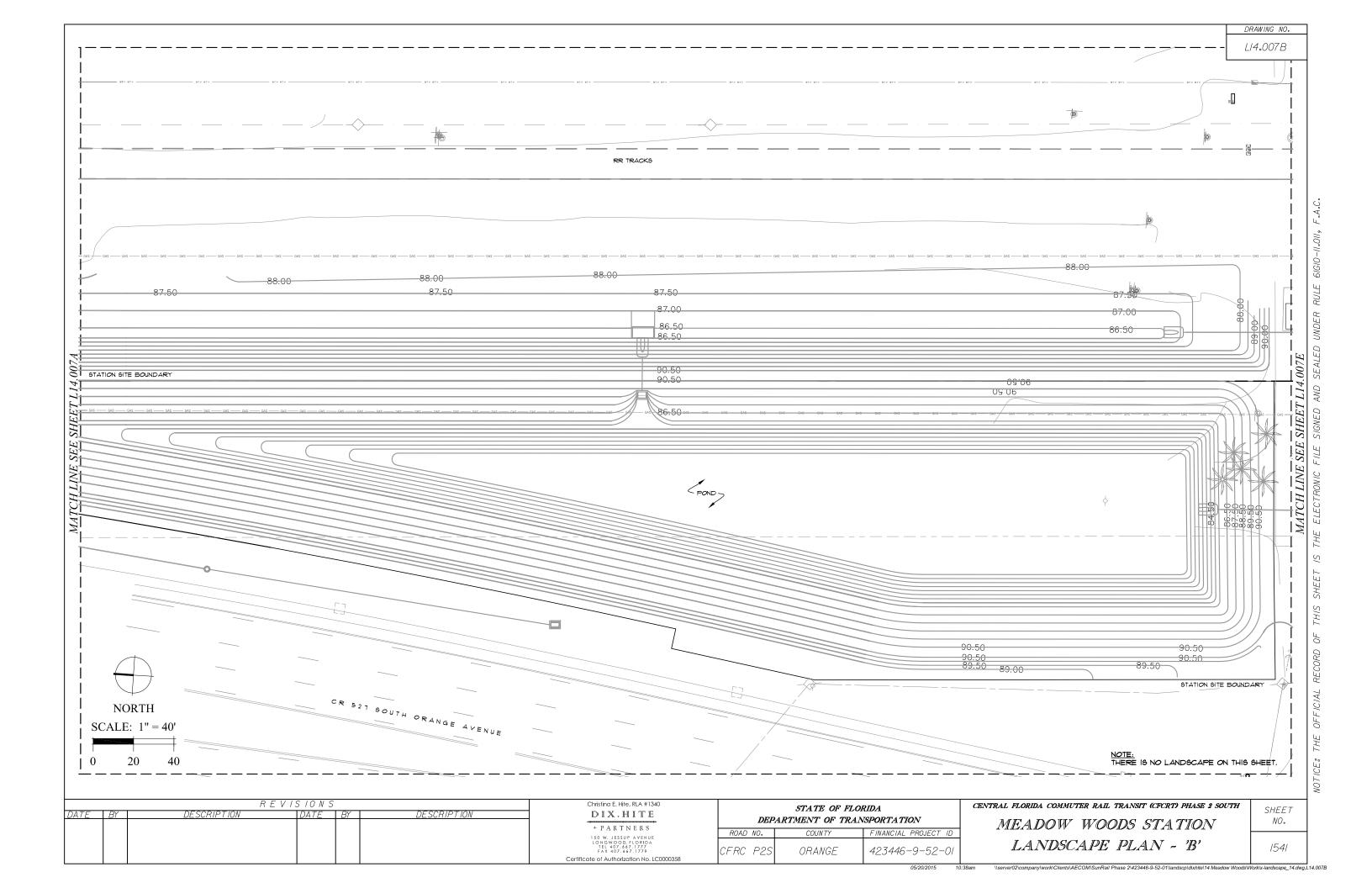
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

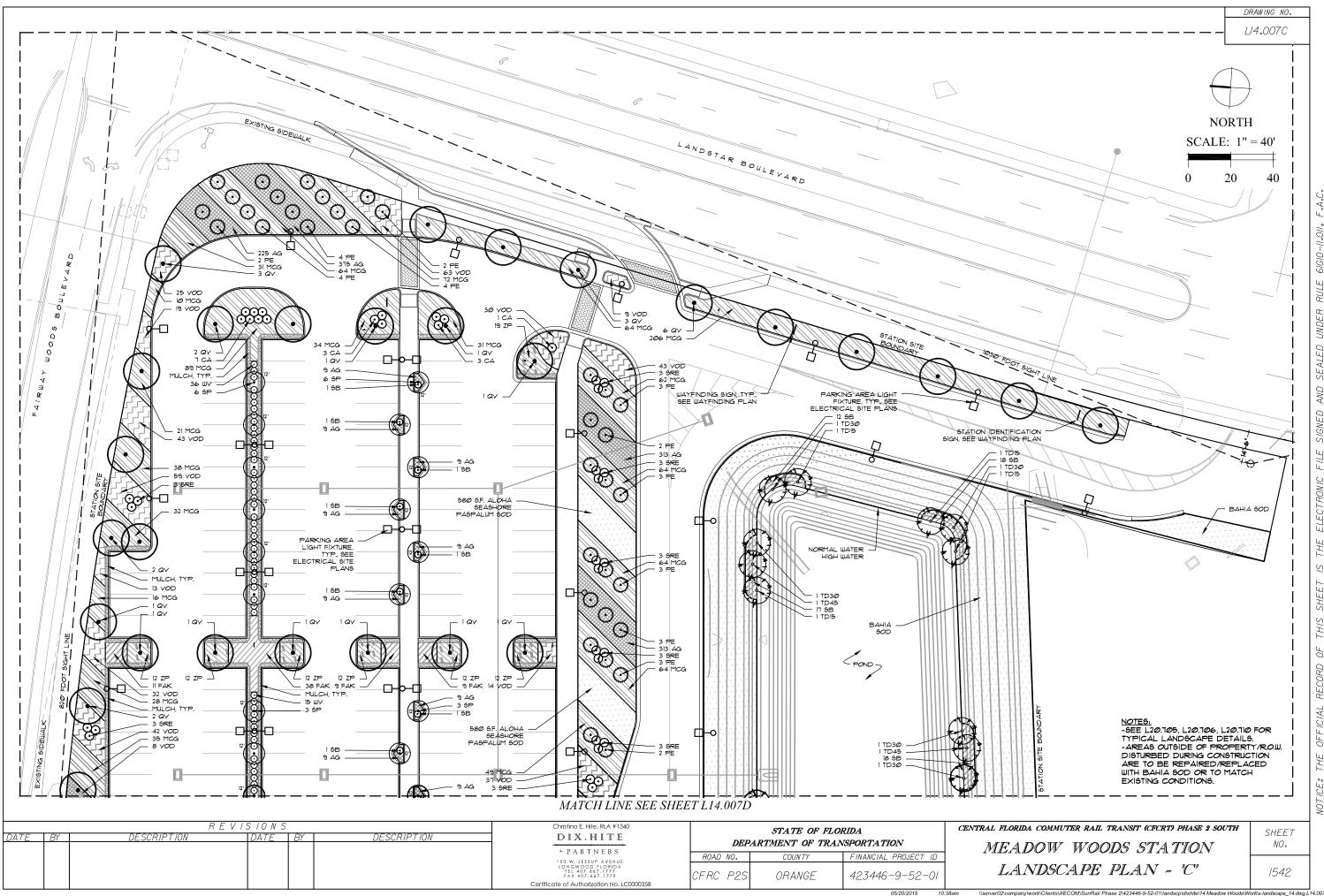
HARDSCAPE DETAILS MATERIALS SCHEDULE

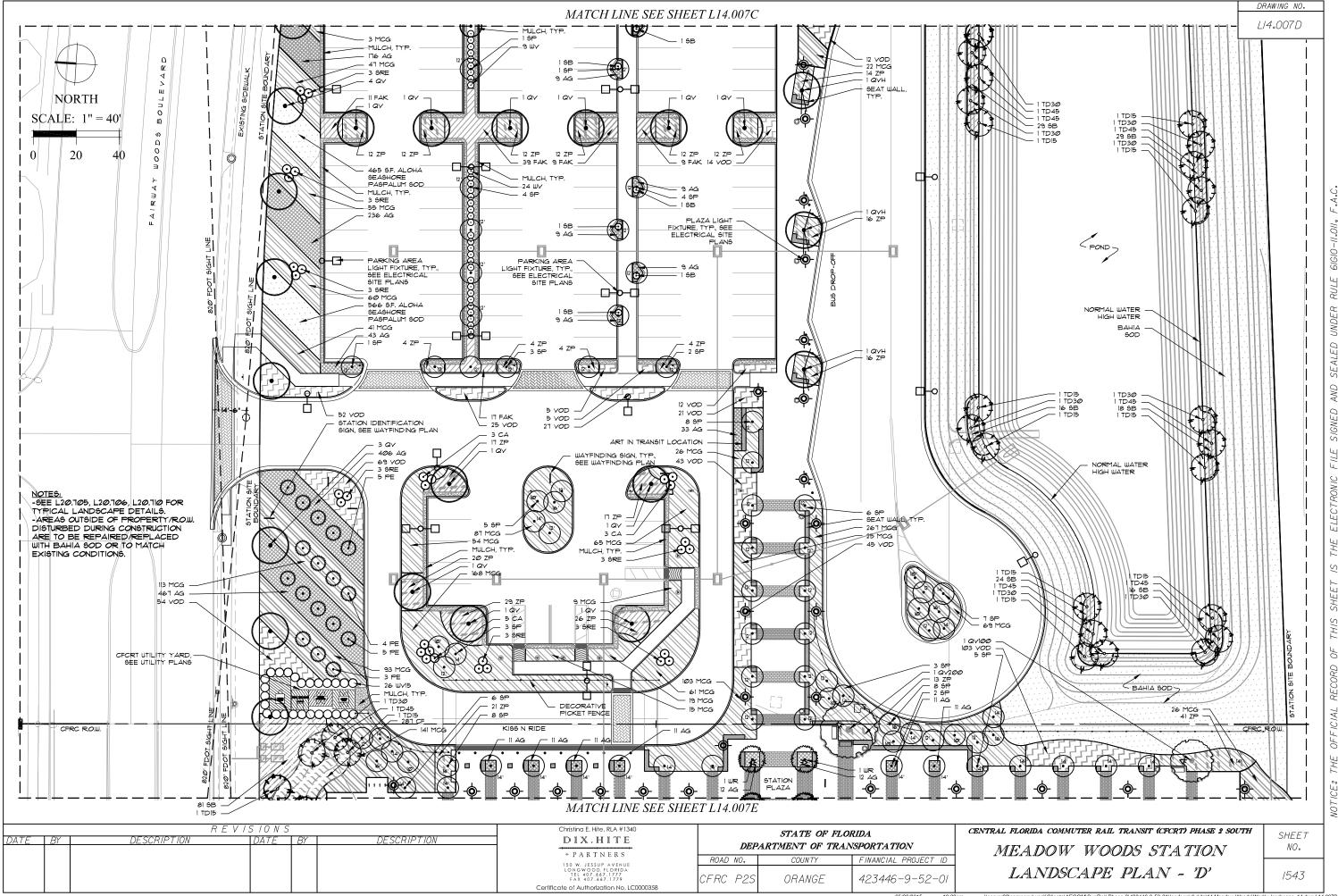
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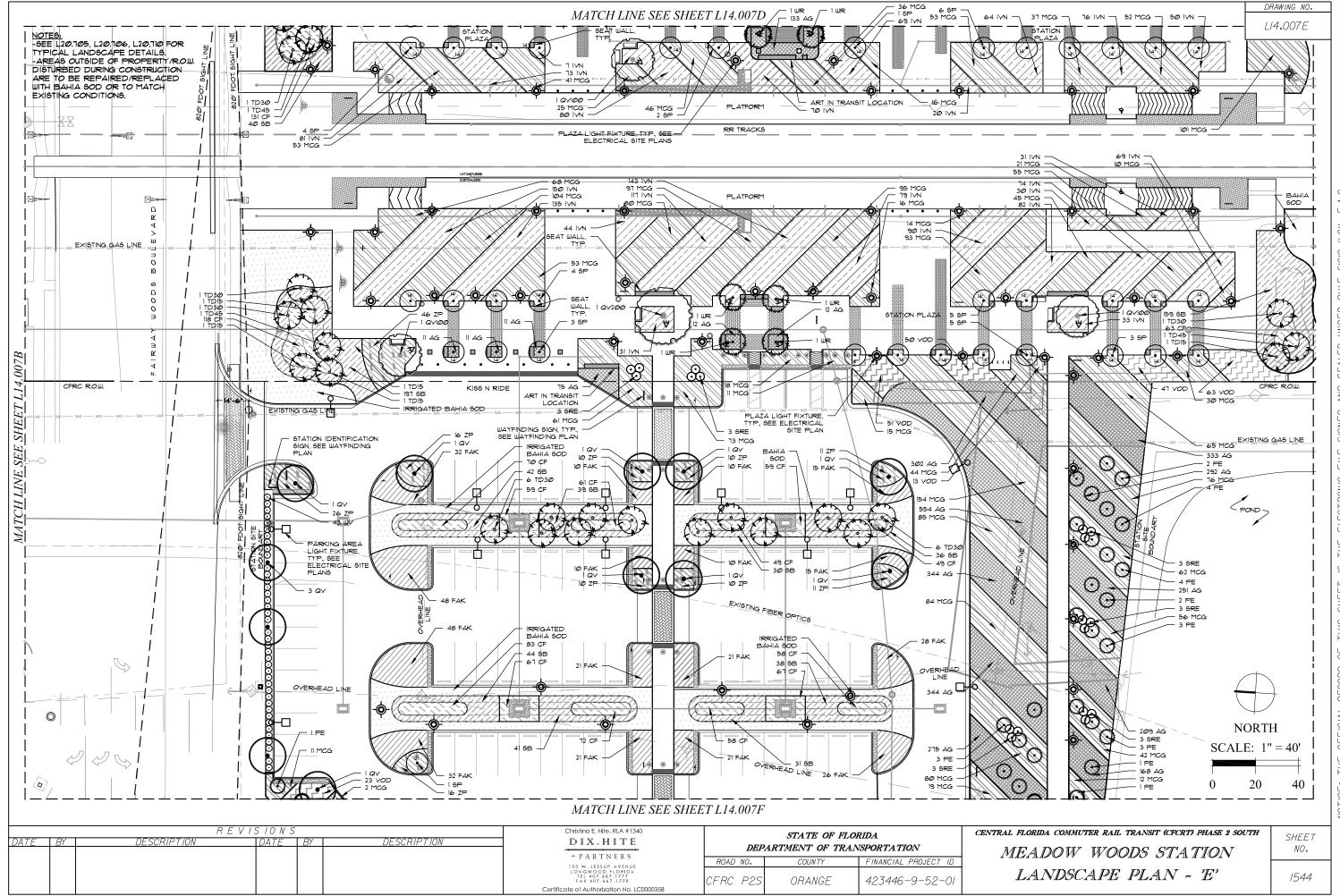


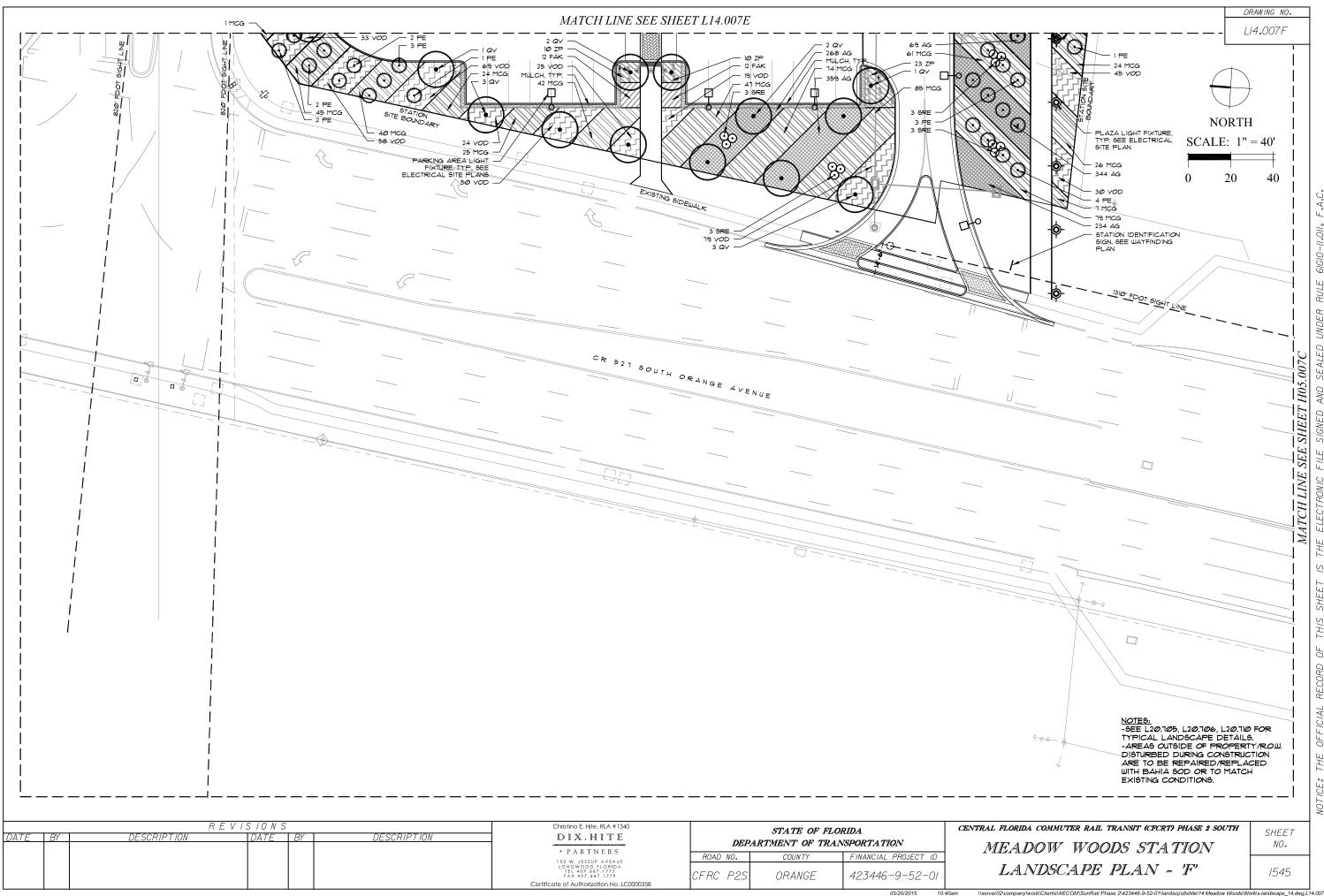












Qty		Symbol	Botanical Name	Common Name	Size & Specification
	<u> </u>				
rees/Pa			D: 10:10:	<u> </u>	
102	ea.	PE	Pinus elliottii	Slash Pine	16' Ht. F.G., Matched
70	ea.	QV	Quercus virginiana	Live Oak	65 Gal., 14'-15' Ht. x 6'-8' Spd., 3"-3 1/2" Cal., 80" C.T.
4	ea.	QV100	Quercus virginiana	Live Oak	100 Gal., 16'-18' Ht. x 8'-9' Spd., 4" Cal., 80" C.T.
2	ea.	QV200	Quercus virginiana	Live Oak	200 Gal., 19'-20' Ht. x 10'-12' Spd., 5" Cal., 80" C.T.
3	ea.	QVH	Quercus virginiana 'Highrise'	Highrise Oak	100 Gal., 14'-16' Ht. x 8' Spd., 4" Cal., 80" C.T.
129	ea.	SP	Sabal palmetto	Cabbage Palm	Not Hurricane Cut, 5-7 Leaves Minimum, 10'-16' C.T. See
					Plans For Sizes, 36" Minimum Diameter Regenerated Roof
					Ball, Clean Trunks, 12"-15" Minimum Dia. Trunk, Boots
					Saved 3' Below Crown
19	ea.	TD15	Taxodium distichum	Bald Cypress	15 Gal., 6'-8' Ht. x 3'-4' Spd., 1 1/2" Cal.
30	ea.	TD30	Taxodium distichum	Bald Cypress	30 Gal., 8'-10' Ht. x 5'-6' Spd., 2"-3" Cal.
12	ea.	TD45	Taxodium distichum	Bald Cypress	45 Gal., 10'-12' Ht. x 7'-8' Spd., 3"-4" Cal.
8	ea.	WR	Washingtonia robusta	Washington Palm	30' CT, Matched
Shrubs/	Groui	ndcover			
7,414	ea.	AG	Arachis glabrata	Perennial Peanut	1 Gal., 12" Spd., 18" O.C.
25	ea.	CA	Callicarpa americana	Beautyberry	7 Gal., 3'-4' Ht. x 3' Spd., Full, 48" O.C.
1,395	ea.	CF	Canna flaccida	Yellow Canna Lily	1 Gal., 2'-3' Ht., Full, 18" O.C.
1,698	ea.	IVN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 Gal., 12" Ht. x 12" Spd., 30" O.C.
5,434	ea.	MCG	Muhlenbergia capillaris	Muhly Grass	3 Gal., 24" Ht., Full, Lush, 36" O.C.
945	ea.	SB	Spartina bakeri	Sand Cordgrass	1 Gal., 24" Ht., Full, 36" O.C.
75	ea.	\$RE	Serenoa repens 'Silver Form'	Silver Saw Palmetto	7 Gal., 24" Ht. x 24" Spd., Full, 48" O.C.
544	ea.	FAK	Tripsacum floridanum	Dwarf Fakahatchee Grass	3 Gal., 24" Ht., Full, 36" O.C.
127	ea.	WV	Vibumum obovatum	Walter's Viburnum	3 Gal., 18" Ht. x 16" Spd., 36" O.C.
26	ea.	WV15	Viburnum obovatum	Walter's Viburnum	15 Gal., 4' Ht. Min. x 3' Spd., 48" O.C.
1,603	ea.	VOD	Vibumum obovatum 'Densa' or 'Mrs. Shillers Delight'	Dwarf Walter's Viburnum	3 Gal., 16" Ht. x 16" Spd., Full, 30" O.C.
618	ea.	ZP	Zamia pumila	Coontie	7 Gal., 18"-24" Ht. x 18"-24" Spd., Full Spread, 36" O.C.
Viscella	neou	ıs			
42,626		-	Bahia Sod		Not irrigated unless indicated otherwide on plans
2,160	SF.		Aloha Seashore Paspalum Sod		Irrigated
1,108	CY		Mulch	Eucalyptus	3" Depth (All much areas unless noted otherwise)
124,706			Irrigation		= = specify in material should shill be a shill made
Allow	LS		Soil Ammendment		
, AIION			Con / Millionanion		
			Note: Containerized Oaks may	<u> </u>	

Christina E. Hite,	REVISIONS					
	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE
+ PARTN						
150 W. JESSUP LONGWOOD, F TEL 407.667 FAX 407.667						
Certificate of Authorizat						1

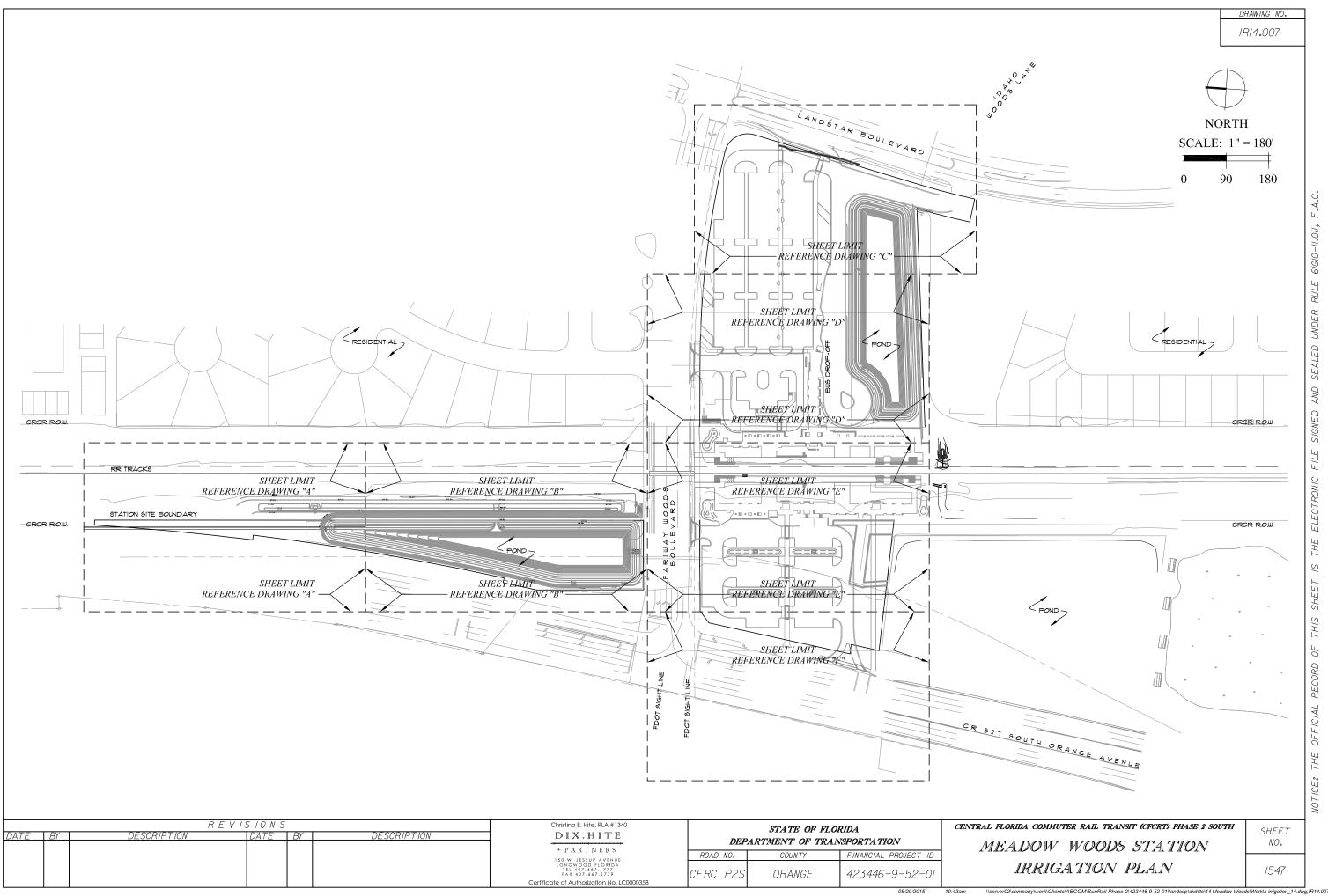
Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

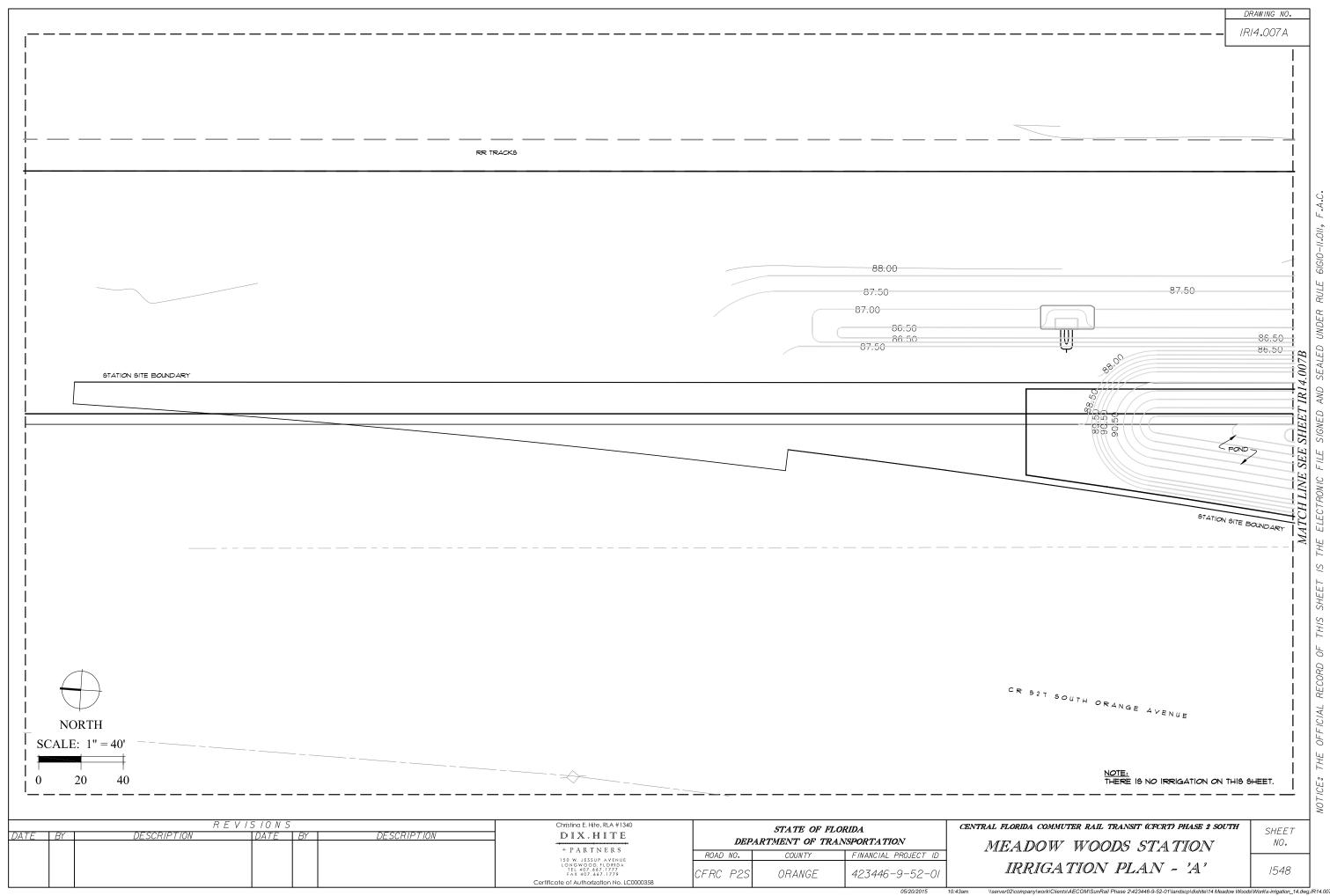
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
FRC P2S	ORANGE	423446-9-52-01				

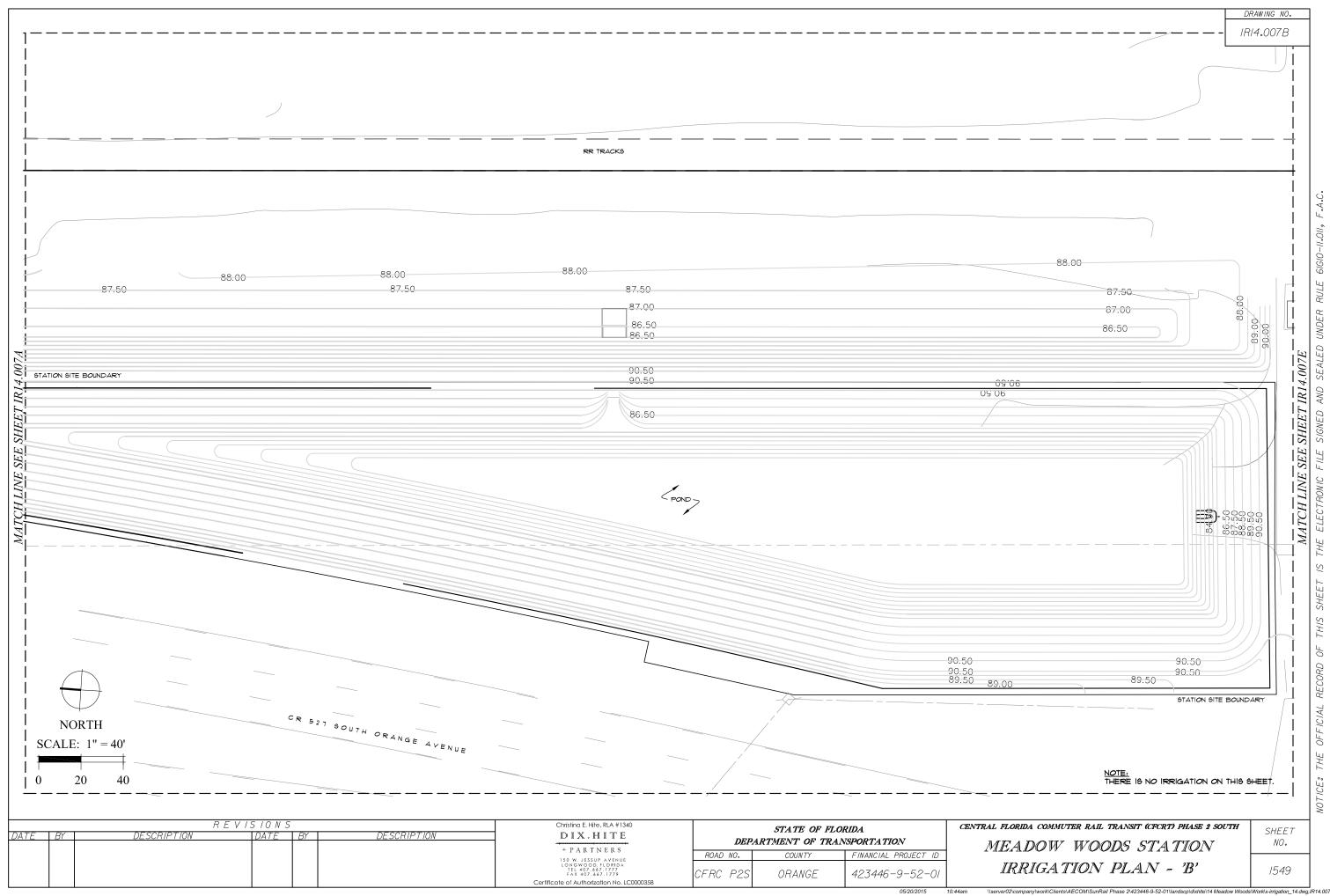
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION MASTER PLANT LIST

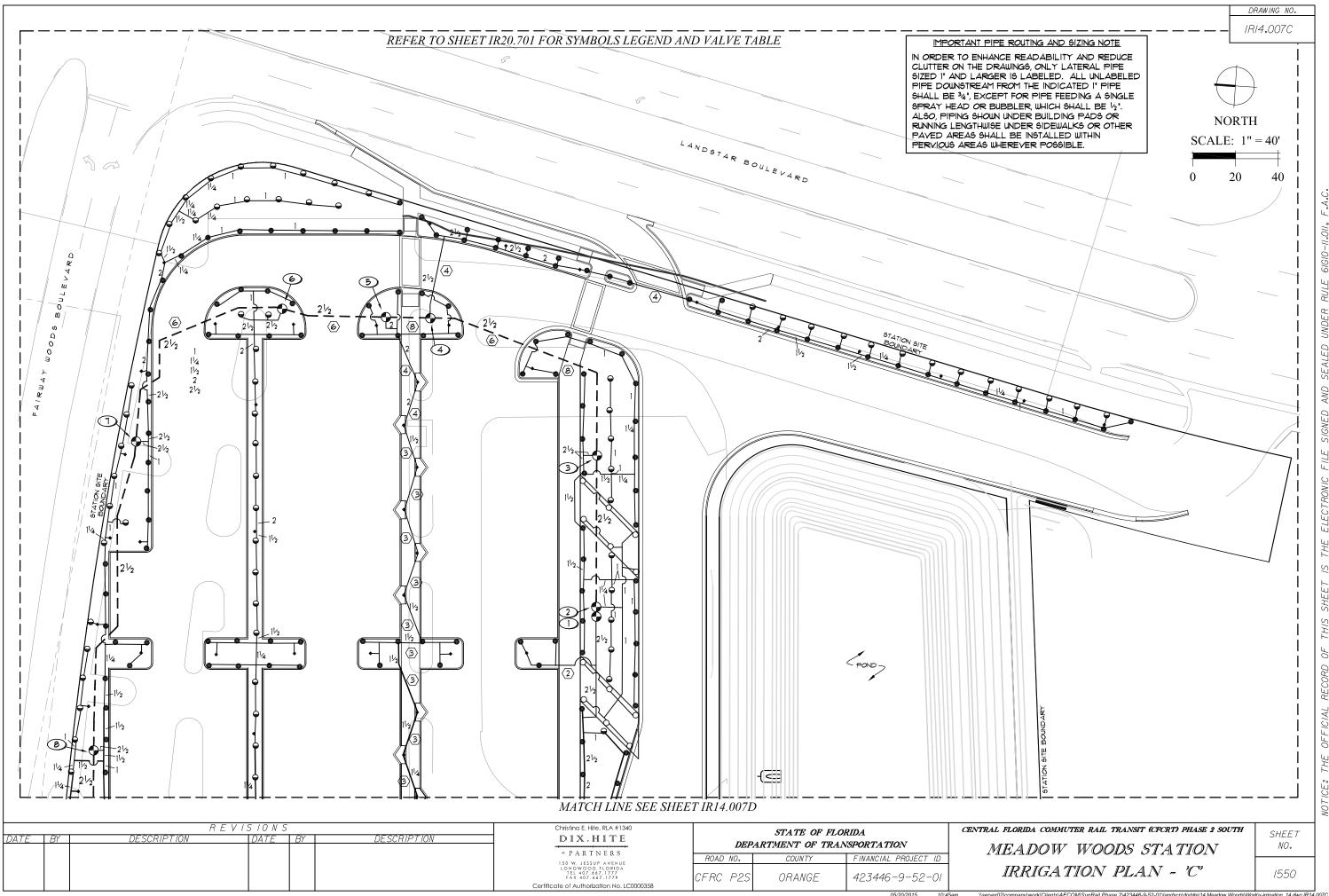
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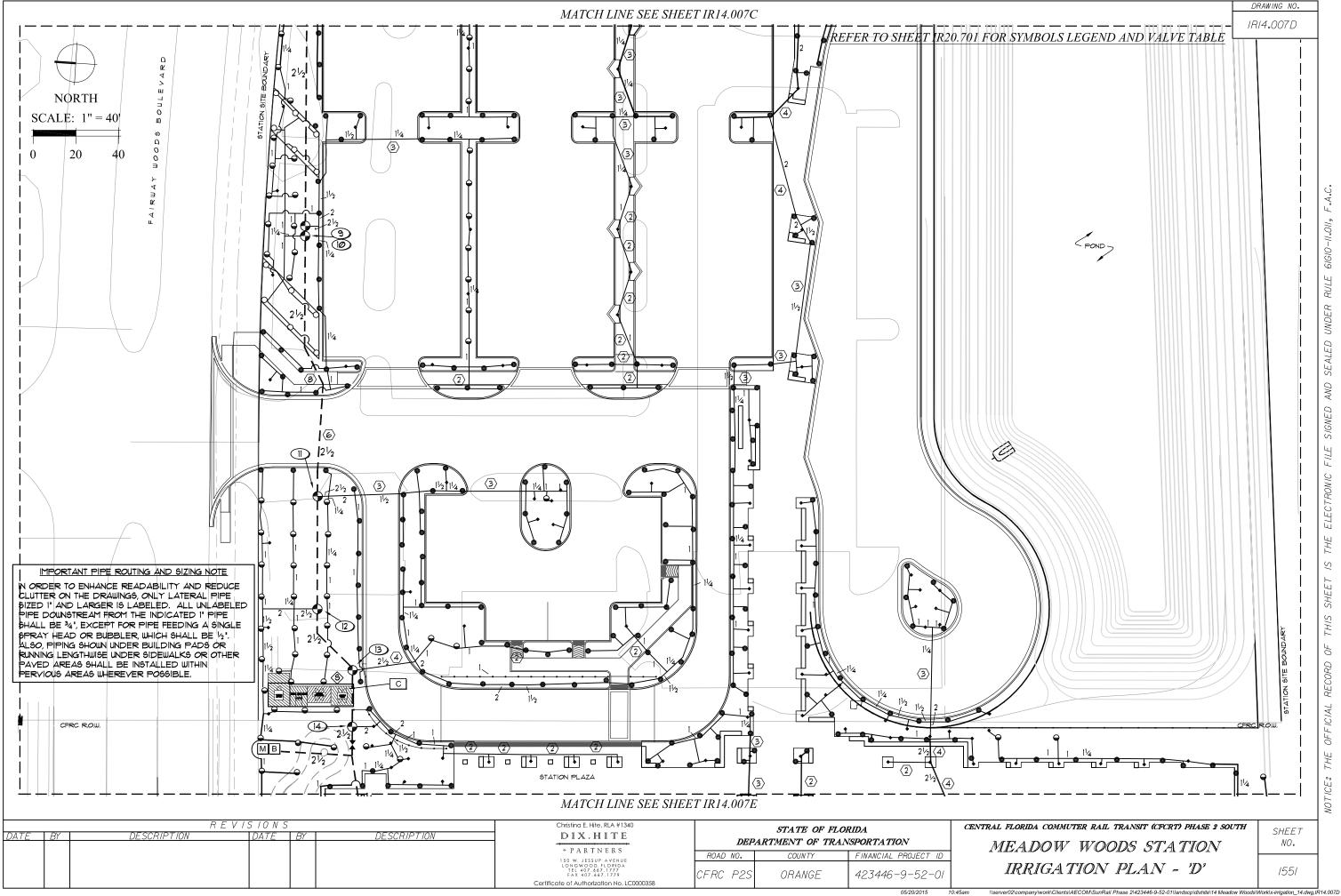
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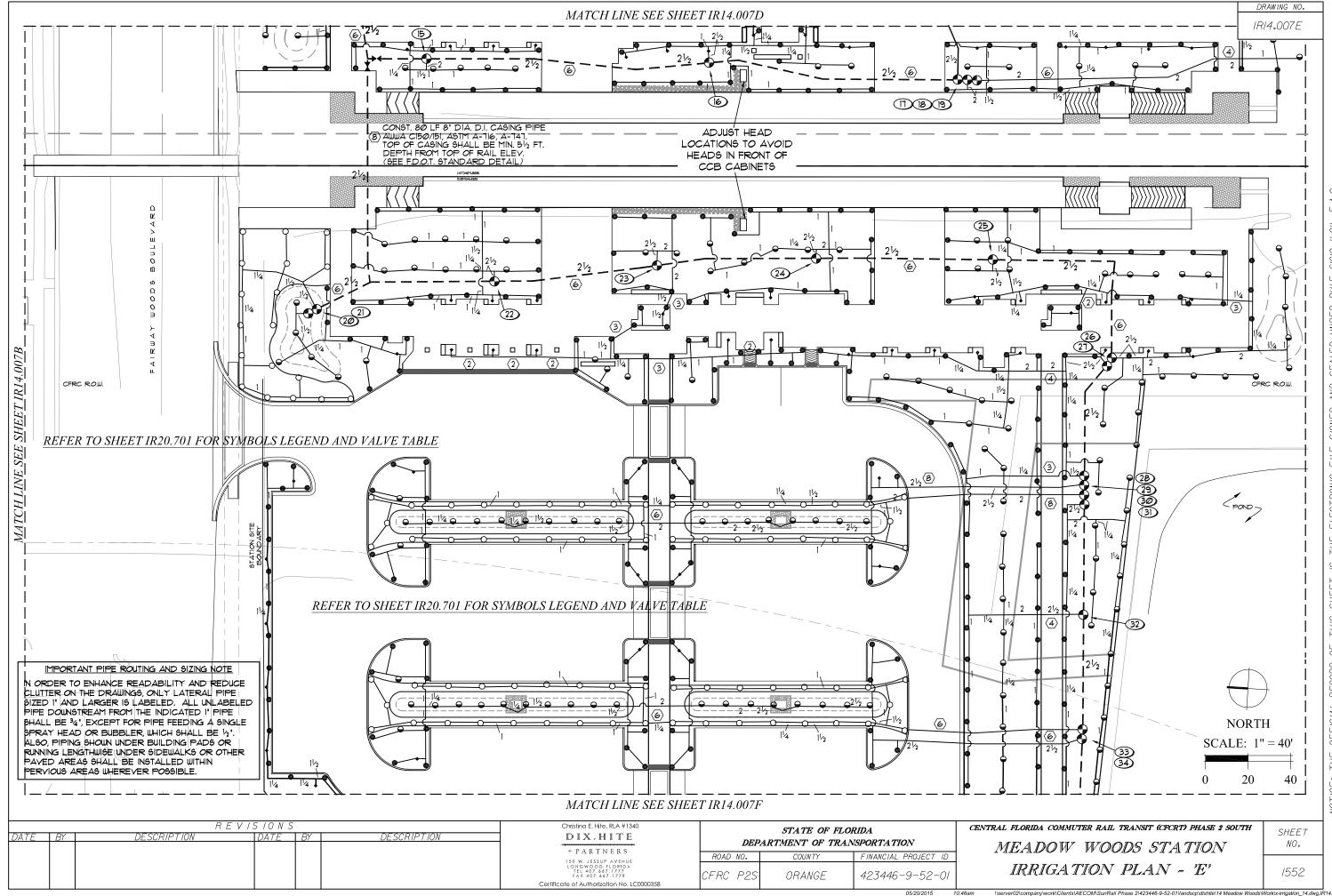


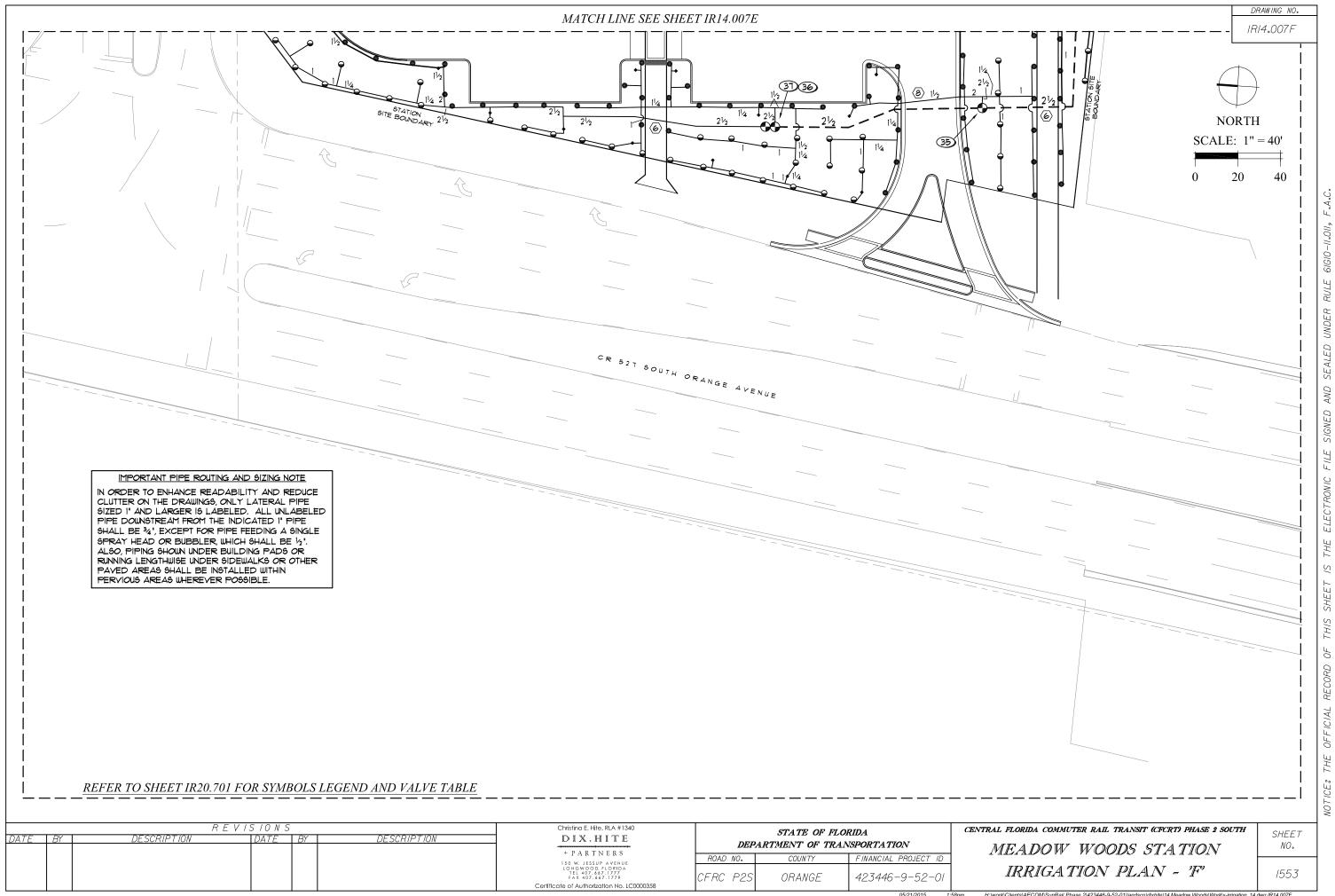












IR20.701

# VALVE/ZONE INFORMATION

#### 8 $S_{N}$ 72x SHRUB SPRAY 65 160 TURF SPRAY 1.60 16 3 SHRUB SPRAY 1.60 66 SHRUB SPRAY 160 1/2/ SHRUB SPRAY 1.60 SHRUB SPRAY 1.60 SHRUB SPRAY 64 1.60 2" 65 SHRUB SPRAY 1.60 SHRUB SPRAY 1.60 TURF SPRAY 160 16 2" 69 SHRUB SPRAY 1.60 SHRUB SPRAY 1.60 66 SHRUB SPRAY 160 SHRUB SPRAY 1.60 1/2 ' 36 SHRUB SPRAY 1.60 SHRUB SPRAY 66 1.60 2" 66 SHRUB SPRAY 1.60 1/2/ SHRUB SPRAY 1.60 11/2 ' SHRUB SPRAY 1.60 20 1/2 1 SHRUB SPRAY 1.60 11/2 TURF SPRAY 30 1.60 SHRUB SPRAY 1.60 23 2" SHRUB SPRAY 1.60 24 SHRUB SPRAY 56 1.60 25 SHRUB SPRAY 160 26 2" 66 SHRUB SPRAY 1.60 27 SHRUB SPRAY 1.60 28 11/2 SHRUB SPRAY 1.60 SHRUB SPRAY 1.60 64 30 1/2 TURF SPRAY 1.60 31 SHRUB SPRAY 1.60 32 2" SHRUB SPRAY 65 1.60 33 TURF SPRAY 1/2/ 1.60 34 SHRUB SPRAY 160 35 2" 63 SHRUB SPRAY 1.60 36 SHRUB SPRAY 1.60 SHRUB SPRAY 64 1.60

### IRRIGATION SYMBOLS LEGEND

- COMMERCIAL 12" HI-POP SPRAY HEAD, W/CHECK YALVE \$ 30-PSI REGULATION
- COMMERCIAL SHRUB SPRAY HEAD, W/30-PSI REGULATION
- · 1.0-GPM BUBBLER HEAD, PRESSURE-COMPENSATING
- 24-YAC ELECTRIC YALVE, SIZE AS NOTED, W/FLOW CONTROL # ANTI-CLOG PORTING
- M 21/2" THD, BRASS GATE VALVE, AMERICAN-MADE
- © 42-STA, SOLID-STATE ELECTRIC CONTROLLER
- ® WIRELESS RAIN SENSOR, MATCHED TO CONTROLLER
- SCH.40 PVC PAVEMENT SLEEVE (EXCEPT AS NOTED)
- M 2" DOMESIC IRRIGATION METER (REFER TO CIVIL DWGS.)
- B APPROVED BACKFLOW PREVENTER (REFER TO CIVIL DWGS.)

---- PRIGO PYC S.W. MAINLINE PIPING

PRIGO PYC S.W. LATERAL PIPING

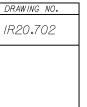
	R E V I S I O N S					Christina E. Hite, RLA #1340
4 <i>TE</i>	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						+ PARTNERS
						150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
						Certificate of Authorization No. LC00

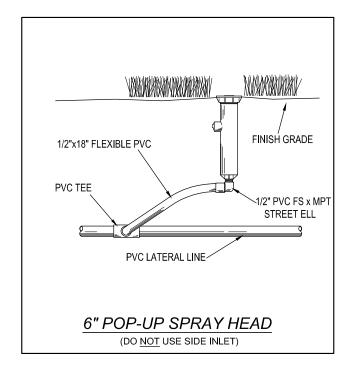
Christina E. Hite, RLA #1340
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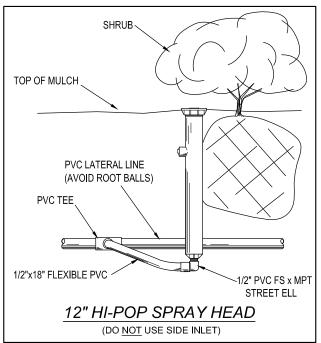
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ROAD NO.		COUNTY	FINANCIAL PROJECT ID				
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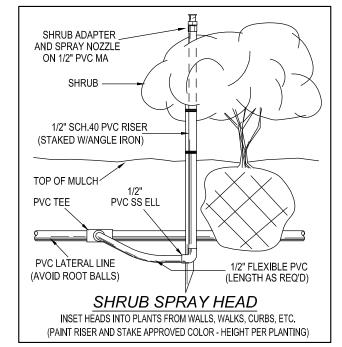
ENTRAL FLORIDA	A COMMUTER	RAIL	TRANSIT	(CFCRT)	PHASE 2	SOU
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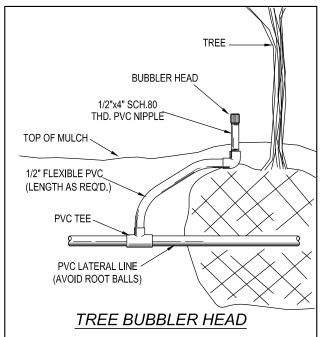




F	ATTERN	GPM @ 30-psi	RADIUS @ 30-ps			
15F	FULL	3.70	15'			
15TQ	THREE QUARTER	2.78	15'			
15TT	TWO THIRD	2.48	15' 15'			
15H	HALF	1.85				
15T	THIRD	1.23	15'			
15Q	QUARTER	.93	15'			
15EST	END STRIP	.61	4'x15'			
15CST	CENTER STRIP	1.21	4'x30'			
15SST	SIDE STRIP	1.21	4'x30'			
12F	FULL	2.60	12'			
12TQ	THREE QUARTER	1.95	12'			
12TT	TWO THIRD	1.74	12'			
12H	HALF	1.30	12'			
12T	THIRD	.87	12'			
12Q	QUARTER	.65	12'			
10F-LA	FULL	1.57	10'			
10H-LA	HALF	.79	10'			
10T-LA	THIRD	.52	10'			
10Q-LA	QUARTER	.39	10'			
8F-FLT	FULL	1.57	8'			
8H-FLT	HALF	.79	8'			
8T-FLT	THIRD	.52	8'			
8Q-FLT	QUARTER	.39	8'			

### **SPRAYHEAD** NOZZLE PERFORMANCE CHART

THE INSTALLER SHALL SELECT THE NOZZLE PATTERNS WHICH BEST SUIT THE LOCATION OF THE HEADS, WHILE MINIMIZING OVERSPRAY ONTO WALLS OR PAVEMENT AREAS



THIS DETAIL HAS INTENTIONALLY BEEN LEFT BLANK, AS THE PREVAILING REQUIREMENTS FOR INSTALLATION OF BACKFLOW PREVENTERS VARY OFTEN AND BY SPECIFIC JURISDICTION. THE INSTALLER SHALL BE EXPECTED TO VERIFY AND FULLY COMPLY WITH ANY AND ALL REQUIREMENTS OF THE GOVERNING AUTHORITIES AND WATER PURVEYOR IN EFFECT AT THE TIME OF INSTALLATION. BACKFLOW PREVENTER INSTALLATION

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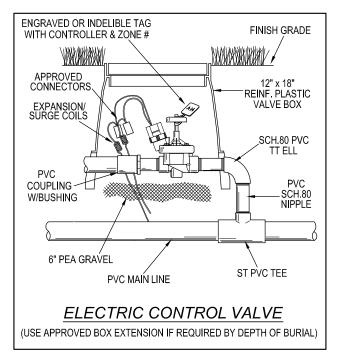
Christina E. Hite, RLA #1340 DIX.HITE + PARTNERS Certificate of Authorization No. LC0000358

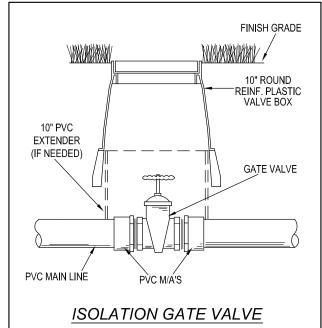
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S ORANGE 423446-9-52-01

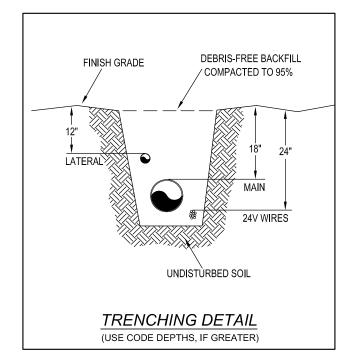
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION

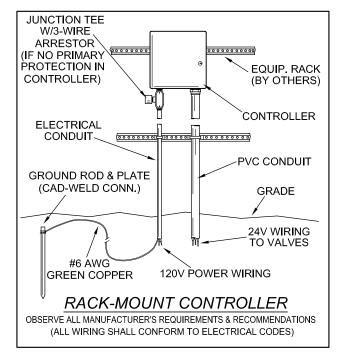
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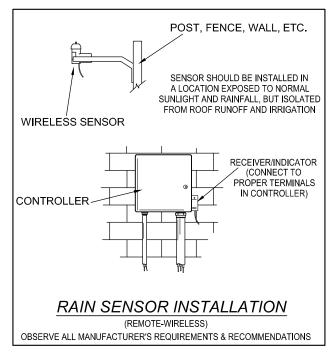
IRRIGATION DETAILS 1555

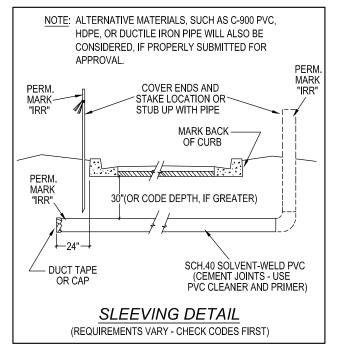












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Christina E. Hite, RLA #1340 DIX.HITE + PARTNERS Certificate of Authorization No. LC0000358

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S ORANGE 423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION IRRIGATION DETAILS

SHEET NO. 1556

### GENERAL NOTES

- I. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AS IT MAY NOT HAVE BEEN POSSIBLE TO ACCURATELY DEPICT THE EXACT LOCATIONS FOR ALL MATERIAL, OR ALL JOBSITE ELEMENTS. THE INSTALLER SHALL BE EXPECTED TO MAKE MINOR ADJUSTMENTS ON THE SITE AS NEEDED, IN ORDER TO MAINTAIN COMPLETE AND ACCURATE COVERAGE, AND MAINTAIN THE INTENT OF THE DESIGN. MODIFICATIONS WHICH INCREASE THE SPACING OF HEADS, OR DECREASE THE SIZING OF PIPE, SHALL NOT BE MADE WITHOUT PRIOR CONSENT OF THE PROJECT MANAGER. THE FINAL LOCATIONS FOR ALL MAJOR EQUIPMENT, INCLUDING CONTROLLERS, VALVES, SUPPLY CONNECTIONS, MAINLINES, ETC. SHALL BE DETERMINED IN THE FIELD, STAKED OUT BY THE CONTRACTOR, USING THE DRAWINGS AS A GUIDE, AND APPROVED PRIOR TO INSTALLATION.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS. ALTHOUGH DUE DILIGENCE HAS BEEN EXERCISED IN THE PREPARATION OF THE DOCUMENTS TO AVOID CONFLICTS, IT SHALL REMAIN THE RESPONSIBILITY OF THE INSTALLER FOR VERIFICATION AND CONFORMANCE TO THE PARTICULAR CODES FOR THIS LOCATION. THE INSTALLER SHALL OBTAIN ANY NECESSARY PERMITS, LOCATES, AND INSPECTIONS.
- 3. ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. THE INSTALLATION SHALL BE COORDINATED WITH ALL NEW AND EXISTING IMPROVEMENTS, AND WITH THE ACTUAL INSTALLED BEDLINES, SOD LIMITS, AND PLANT LOCATIONS.
- 4. THE INSTALLER SHALL BE FAMILIAR WITH ALL APPLICABLE DOCUMENTS, INCLUDING ANY WRITTEN SPECIFICATIONS THAT MAY HAVE BEEN ISSUED. ANY CONFLICT FOUND BETWEEN THE VARIOUS DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE PROJECT MANAGER FOR DETERMINATION.
- 5. ALL MATERIAL AND LABOR NECESSARY TO PROVIDE A COMPLETE, FULLY OPERATIONAL, AND GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS. THIS SHALL INCLUDE CONFORMANCE TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE VARIOUS MANUFACTURERS OF THE EQUIPMENT, AND TO APPLICABLE TRAINING AND CERTIFICATION OF INSTALLATION PERSONNEL.
- 6. UNLESS SPECIFICALLY STATED TO THE CONTRARY, PIPING AND WIRING PASSING UNDER PAVED OR OTHER IMPERVIOUS SURFACES SHALL BE INSTALLED IN SLEEVING OF ADEQUATE SIZE AND STRENGTH. SIDEWALKS AND DECKS AND TURF PAVERS SHALL REQUIRE SLEEVING, EVEN IF NOT SHOWN ON THE DRAWINGS. CONTROL WIRING MAY BE RUN WITHIN A LARGER SLEEVE WITH MAINLINE PIPING, BUT ONLY IF PROTECTED BY A SMALLER CONDUIT. WIRE MAY NOT BE TAPED TO THE MAINLINE IN LIEU OF THIS CONDUIT, AS ABRASION OF THE WIRE JACKET IS LIKELY TO OCCUR.
- 1. SLEEVES UNDER PARKING AND DRIVEWAYS MAY BE THE RESPONSIBILITY OF OTHER THAN THE IRRIGATION CONTRACTOR (SUCH AS THE PAVING OR SITE CIVIL CONTRACTOR). CONSULT OTHER DOCUMENTS FOR ADDITIONAL INFORMATION. ANY NEEDED SLEEVE WHICH EITHER CANNOT BE FOUND OR IS DAMAGED BEYOND PRACTICAL USE SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY, ALONG WITH RECOMMENDATIONS FOR CORRECTIVE ACTION. SLEEVES UNDER SIDEWALKS, DECKS, ETC. ARE NORMALLY INSTALLED BY THE IRRIGATION CONTRACTOR.
- 8. CONTROL WIRING SHALL BE ROUTED WITH THE MAINLINE WHENEVER POSSIBLE. OTHERWISE, WIRING SHALL BE PROTECTED WITH PVC CONDUIT OF SUITABLE SIZE, AND PULL BOXES AT RECOMMENDED INTERVALS. LOW VOLTAGE WIRING SHALL BE TYPE "UF", WITH PVC JACKET. MULTI-CONDUCTOR OR NON-PVC JACKETS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE PROJECT MANAGER. UNLESS STATED TO THE CONTRARY, ZONE "HOT" WIRES SHALL BE SIZE 14-1, COLORED RED. SPARE WIRES, A MINIMUM OF TWO OF WHICH SHALL BE RUN FROM THE CONTROLLER TO THE FARTHEST ZONE VALVE IN EACH DIRECTION, SHALL BE 14-1, BLUE IN COLOR. VALVE COMMON WIRES SHALL BE 12-1, WHITE IN COLOR. WIRE SPLICES FOR ELECTRIC VALVES SHALL BE OF APPROVED TYPE. THE INSTALLER SHALL INSTALL ALL WIRING WITH ADEQUATE SLACK, SNAKED IN TRENCHES, BUNDLED AT TEN FOOT INTERVALS, AND WITH SURGE/EXPANSION COILS AT THE VALVES AND THE CONTROLLER LOCATION.
- 9. ALL SPRINKLER HEADS SHALL BE OF THE PROPER SIZE AND TYPE FOR THE LOCATION AND PLANT

MATERIAL. HEADS SHALL BE INSTALLED IN THE PRESCRIBED MANNER, PLUMB, AND WITH THE PROPER HEIGHT WITH RESPECT TO GRADE AND/OR PLANT MATERIAL. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCES FROM ALL PAVING, CURBS, SIDEWALKS, WALLS, AND OTHER OBSTACLES, SO THAT DAMAGE TO EQUIPMENT DOES NOT OCCUR DURING NORMAL LANDSCAPE MAINTENANCE OPERATIONS. ALL SPRINKLERS SHALL BE ADJUSTED TO OBTAIN OPTIMAL COVERAGE OF PLANT MATERIAL, WHILE MINIMIZING OVERSPRAY ONTO WINDOWS, WALLS PAVING OR OTHER IMPERVIOUS SURFACES, PARTICULARLY WOODWORK AND/OR TRIM. THE INSTALLER SHALL UTILIZE THE PROPER SPRAY NOZZLE PATTERN FOR THE LOCATION, AS WELL AS PRESSURE-COMPENSATING HEADS OR SCREENS, AND ADJUSTABLE-PATTERN NOZZLES WHERE A FIXED PATTERN IS NOT SUITABLE TO CONTROL COVERAGE OR OVERSPRAY.

- IO. RISER-MOUNTED HEADS SHALL BE INSTALLED WITHIN THE FIRST ROW OF PLANT MATERIAL, SO THAT THE HEAD IS PROTECTED AND CONCEALED BY THE MATERIAL. IT MAY BE REQUIRED TO RELOCATE HEADS NOT CONFORMING TO THIS STIPULATION AFTER PLANTS ARE INSTALLED. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. RISERS SHALL BE STAKED AS SHOWN IN THE DETAILS, AND PAINTED A DURABLE FLAT COLOR, TO BE AGREED UPON BY THE PARTIES.
- II. THE CONTROLLER SHALL REQUIRE A STANDARD 120-VAC POWER FEED, WHICH SHALL BE COORDINATED BY THE INSTALLER, AND HOOKED UP BY A LICENSED ELECTRICIAN. IT IS PREFERRED THAT A DEDICATED CIRCUIT BE PROVIDED FOR THIS CONNECTION. A 3-WIRE POWER INPUT SURGE ARRESTOR SHALL BE PROVIDED ON THE POWER FEED, AND A DEDICATED GROUND ROD/PLATE NETWORK (SEE DETAIL) SHALL BE INSTALLED, HAVING A MEASURED EARTH GROUND RESISTANCE OF NOT GREATER THAN TEN (10) OHMS.
- 12. THE CONTROLLER SHALL BE EQUIPPED WITH A PROPERLY LOCATED AND INSTALLED RAIN SHUTOFF SENSOR DEVICE, AS REQUIRED BY FLORIDA LAW. THE SENSOR SHALL BE LOCATED IN SUCH A MANNER SO THAT IT IS UNOBSTRUCTED AND DIRECTLY EXPOSED TO NATURAL RAINFALL AND SUNLIGHT FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM ROOFS, ETC.
- 13. THE MINIMUM SUPPLY REQUIREMENT FOR THE SYSTEM AS DESIGNED IS 15-GPM AT 60-PSI.
- 14. THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE, AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.
- 15. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A FUNCTIONING, FULLY-INSTALLED AND GUARANTEED SYSTEM, AND SHALL SUPPORT ALL PRODUCTS WITH EXTENDED MANUFACTURERS' WARRANTIES.

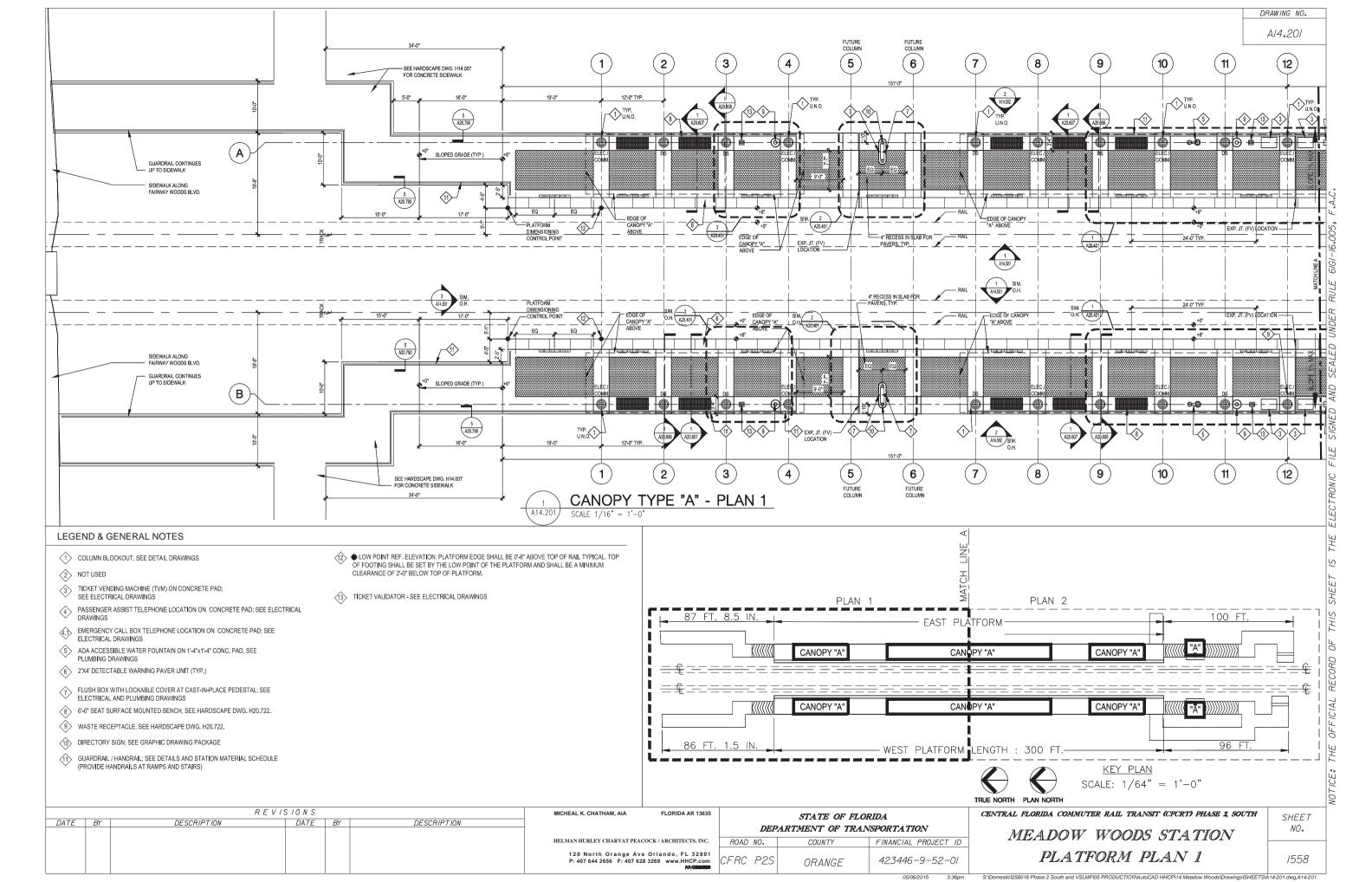
R E V IS IO N S						Christina E. Hite, RLA #1340		STATE OF FLO	PID4	
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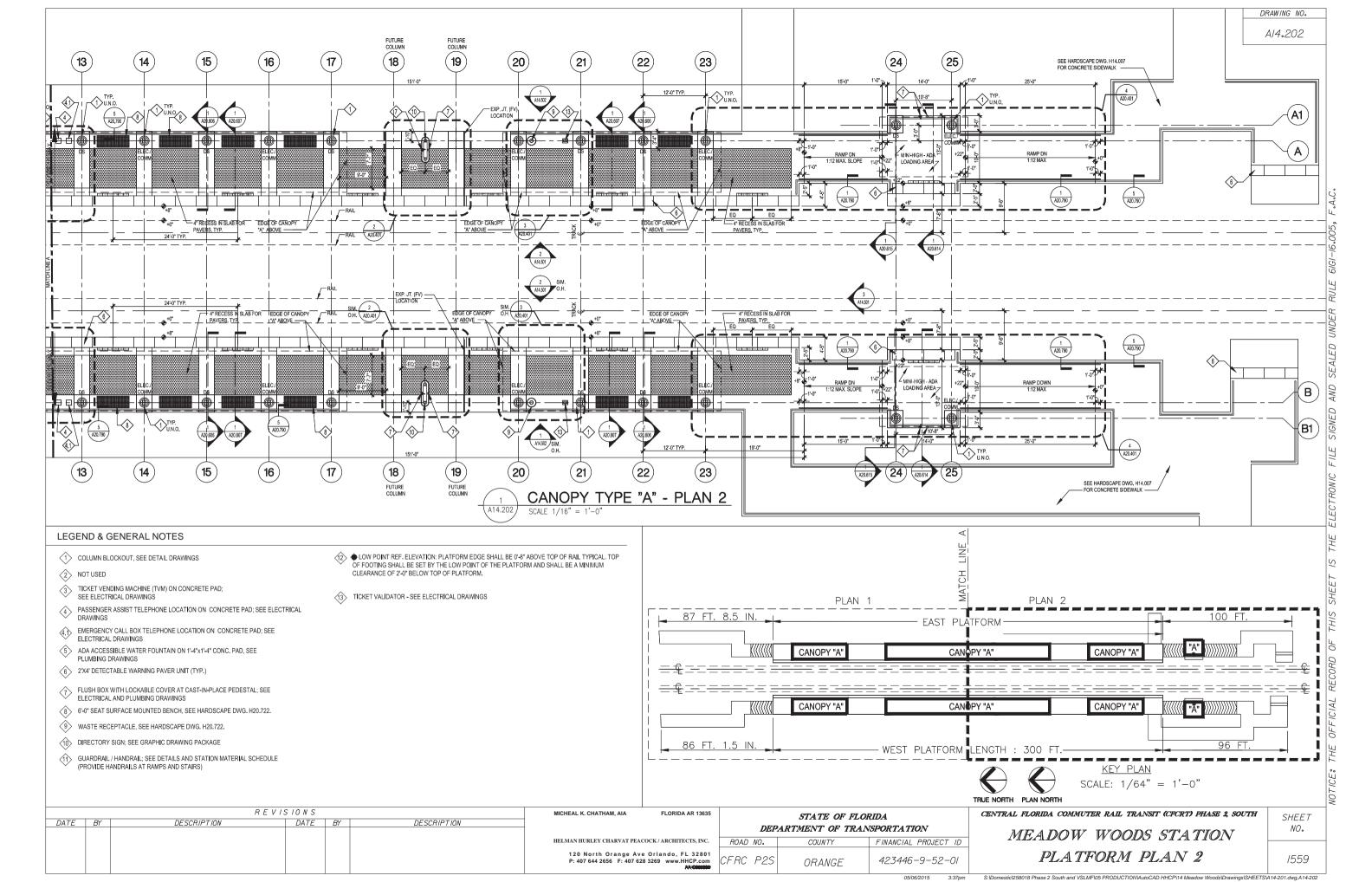
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

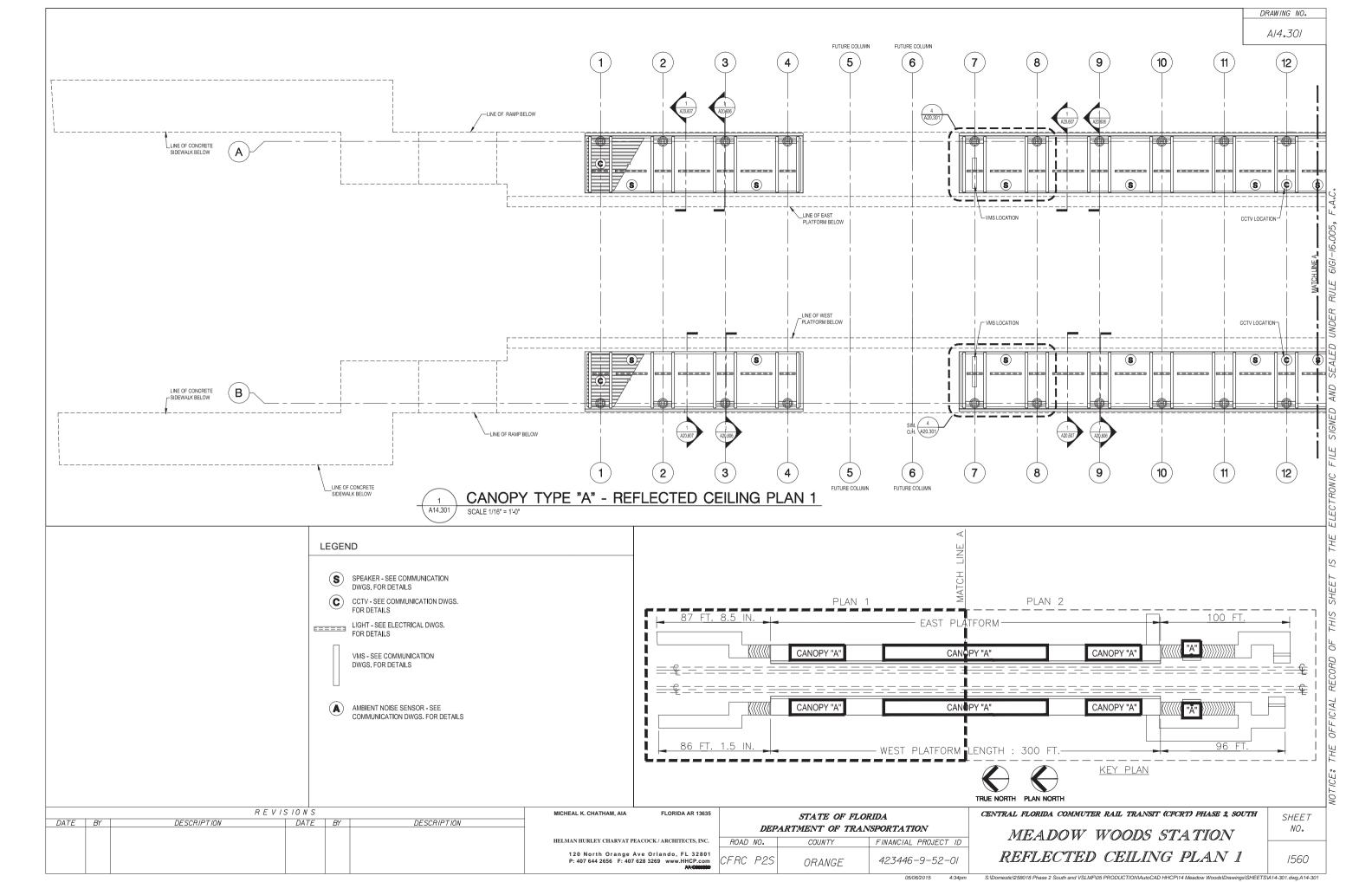
MEADOW WOODS STATION

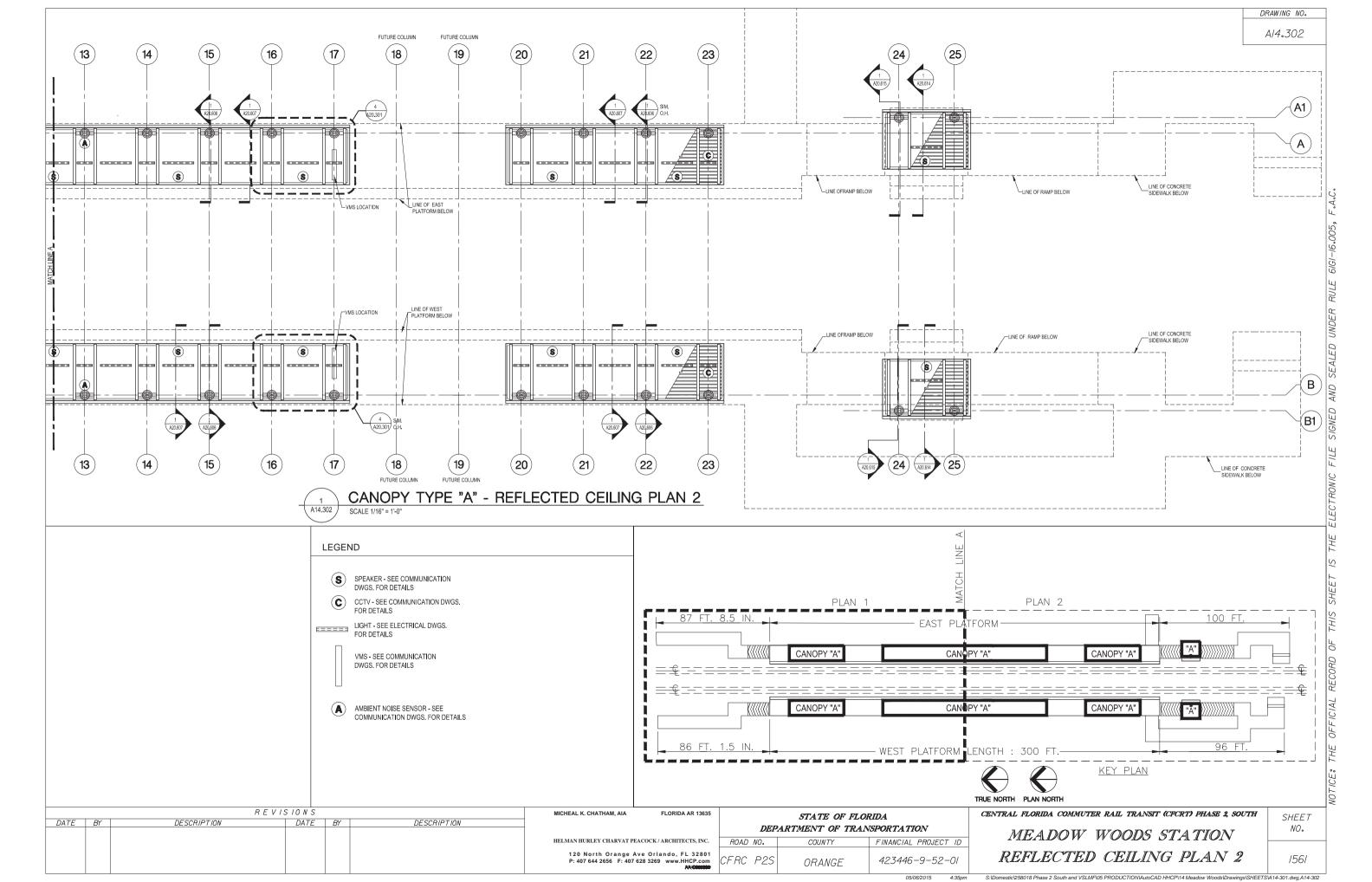
IRRIGATION DETAILS

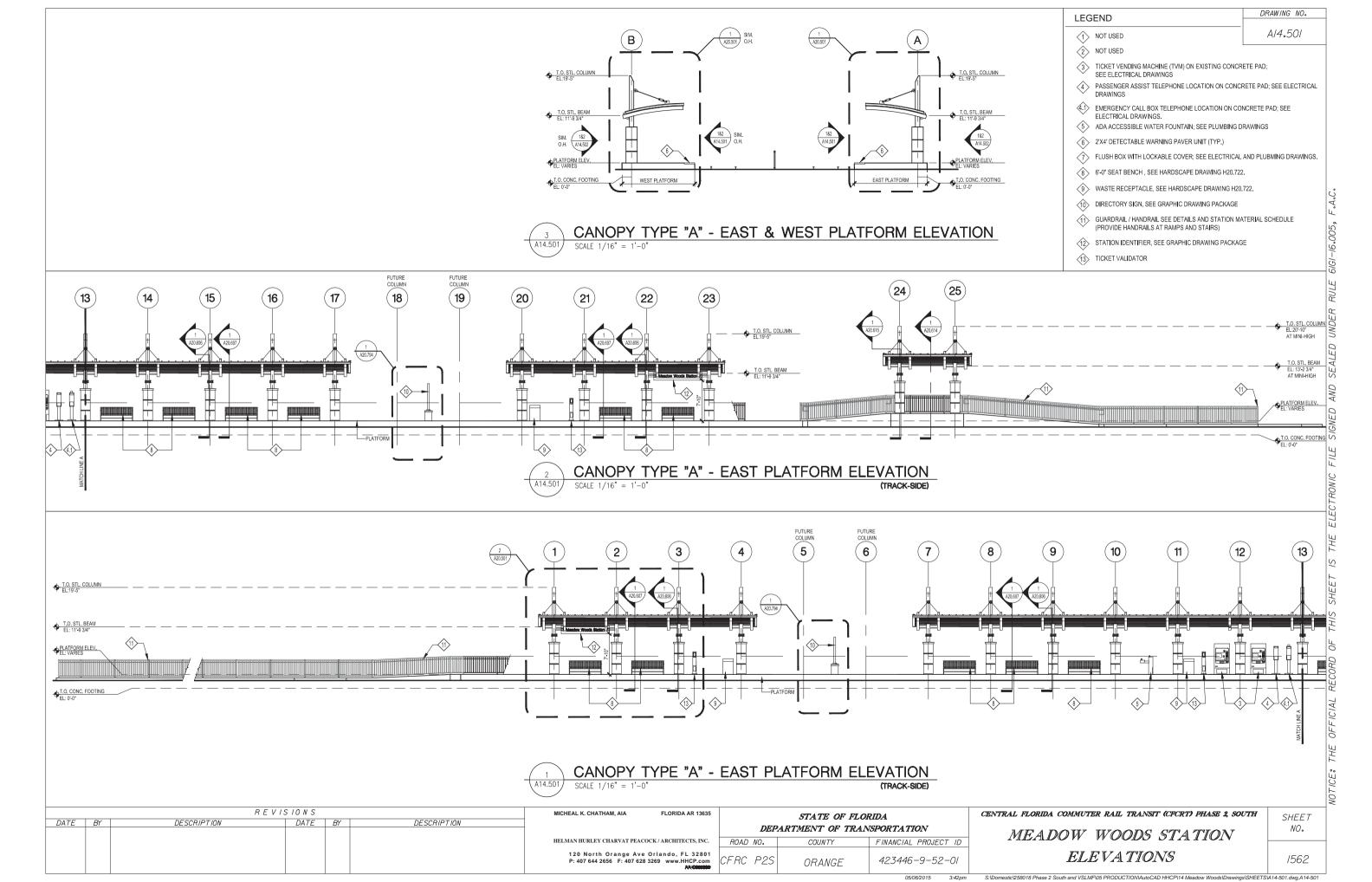
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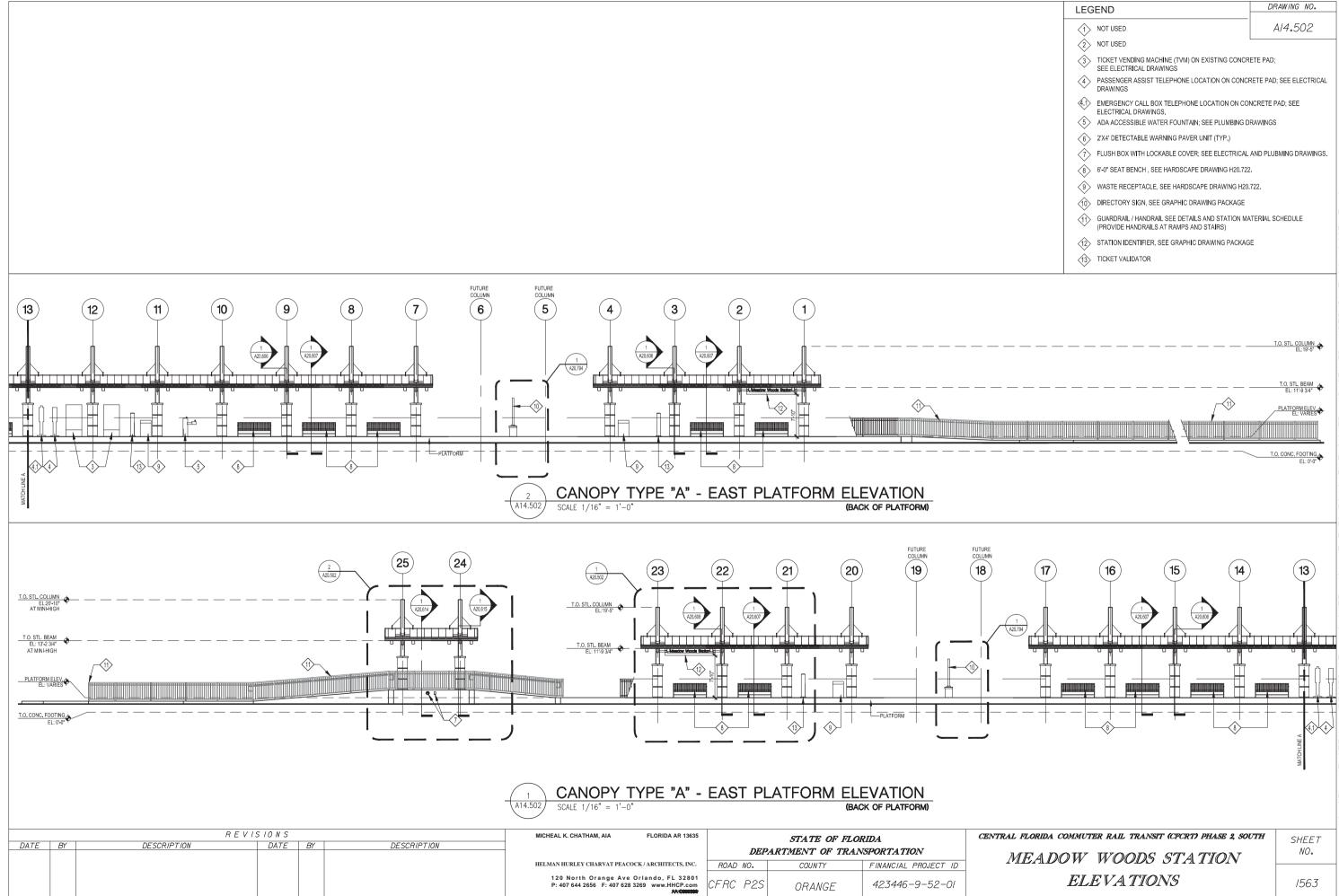






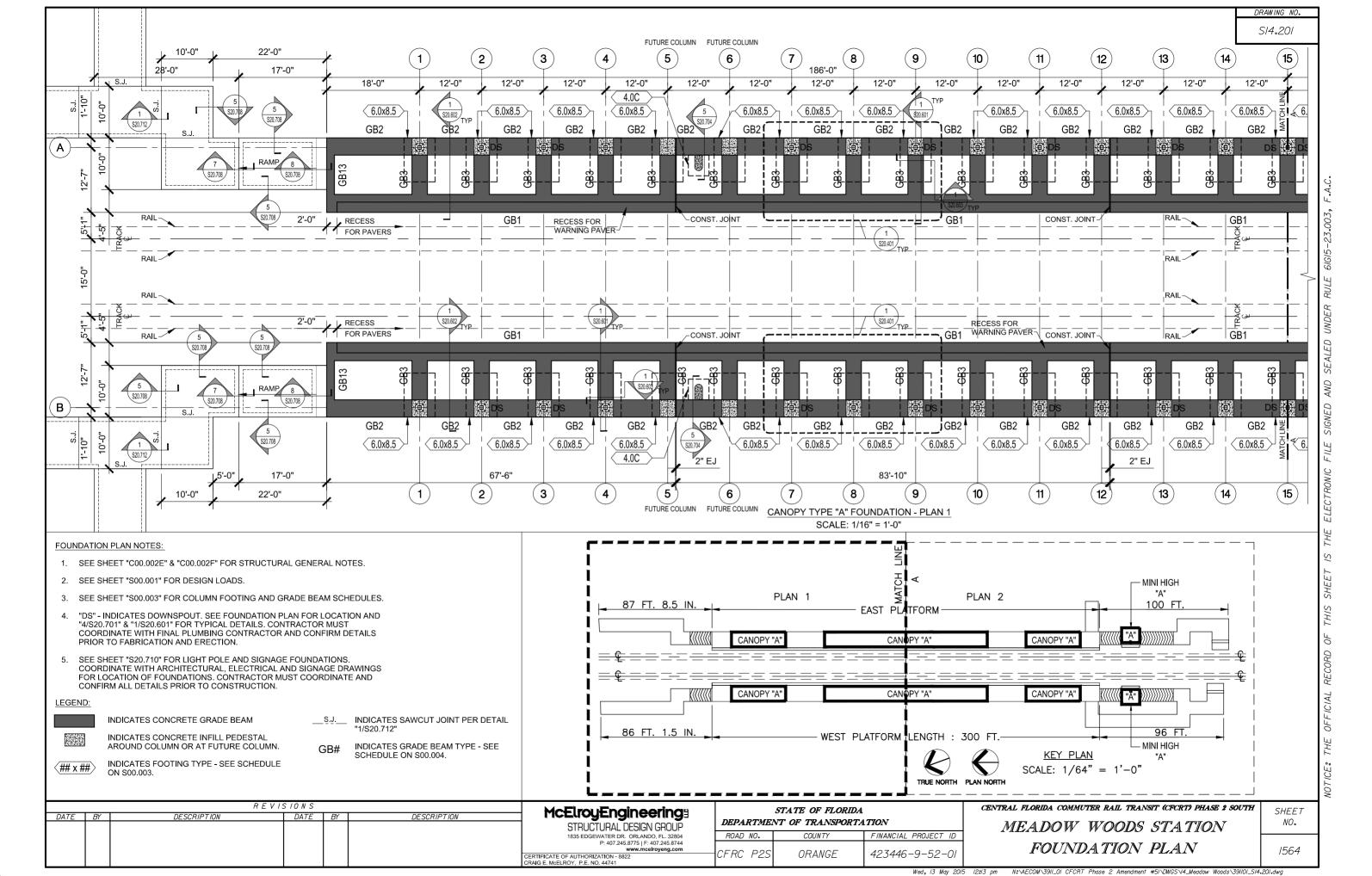


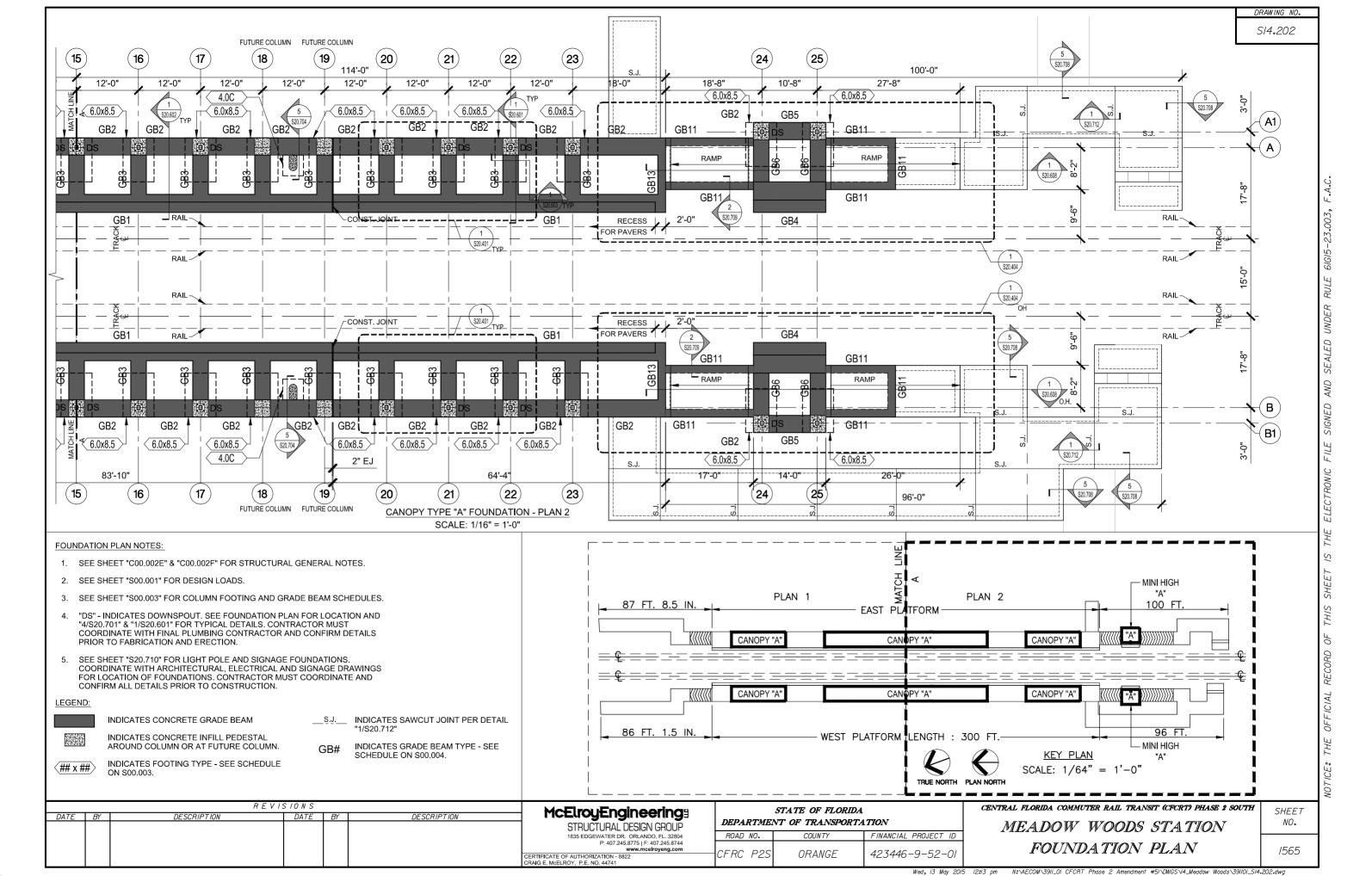


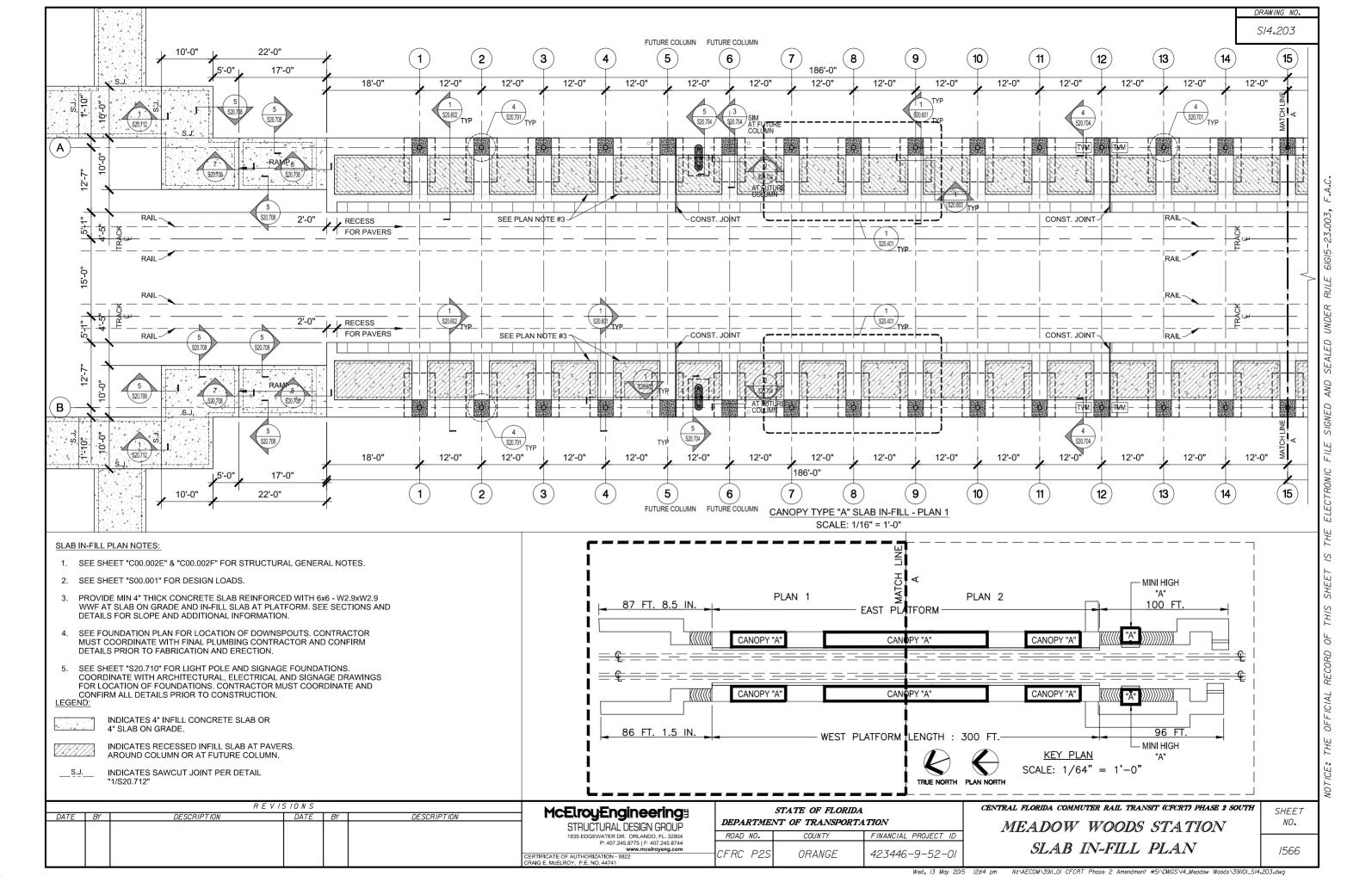


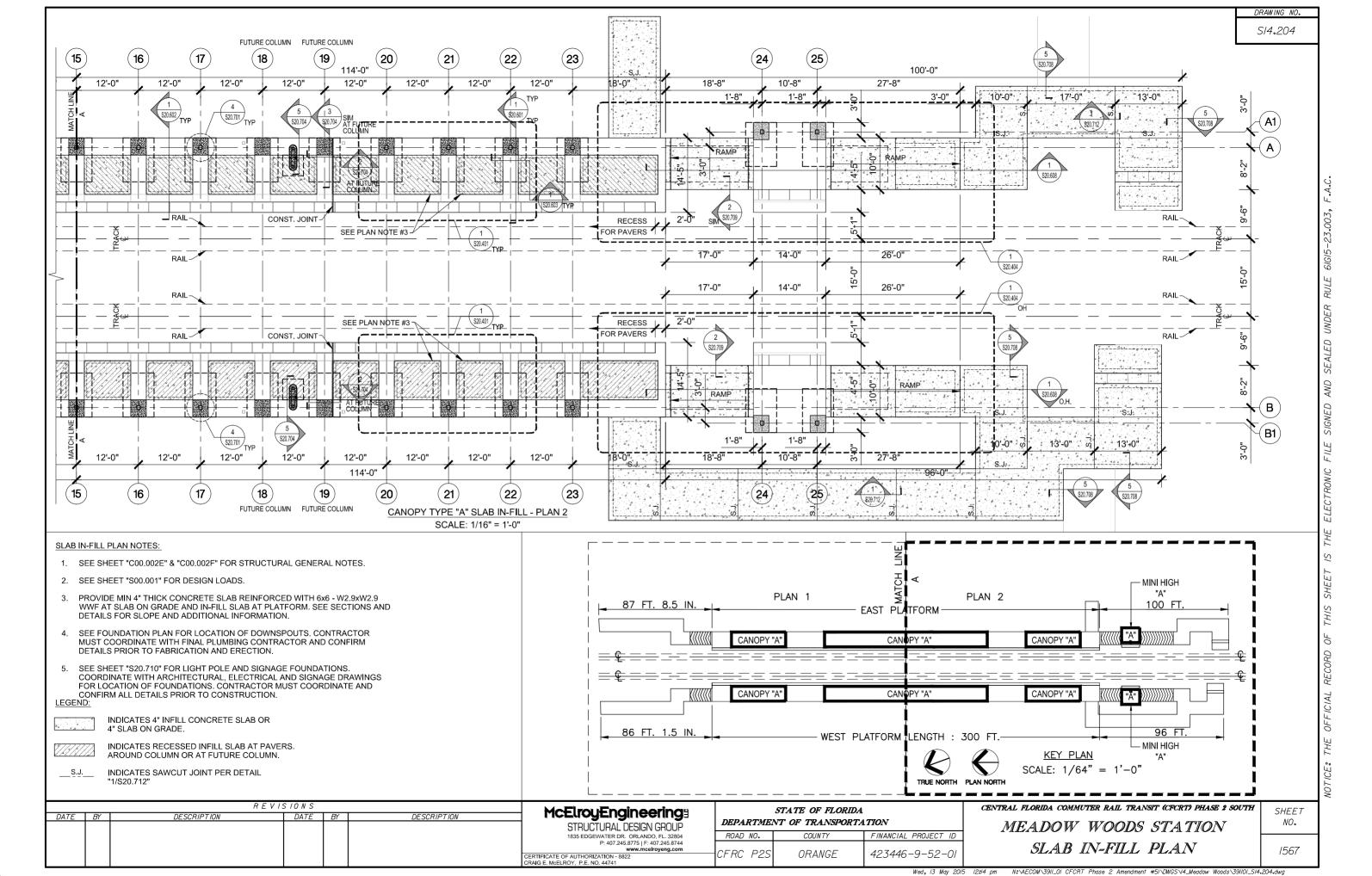
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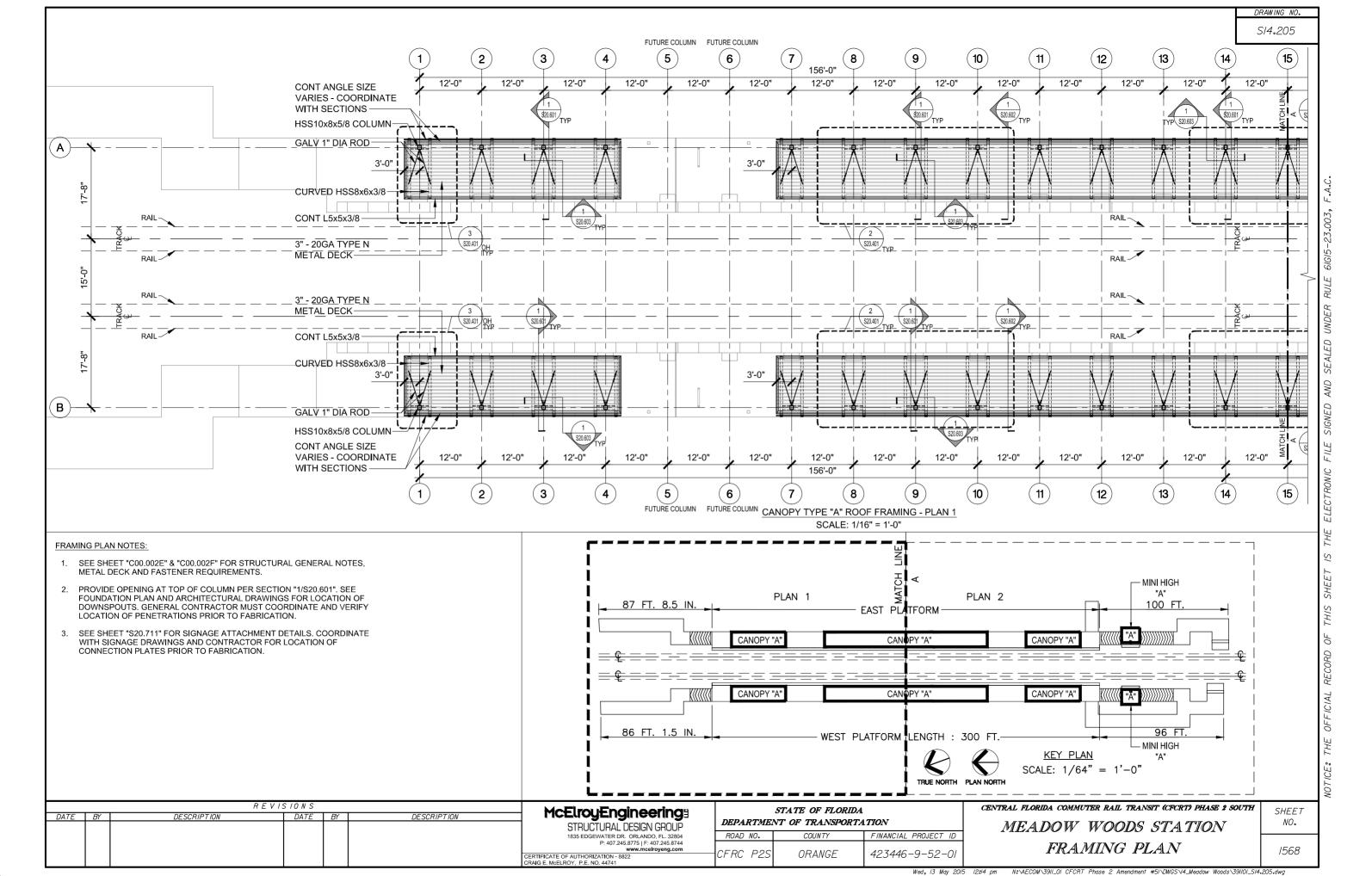
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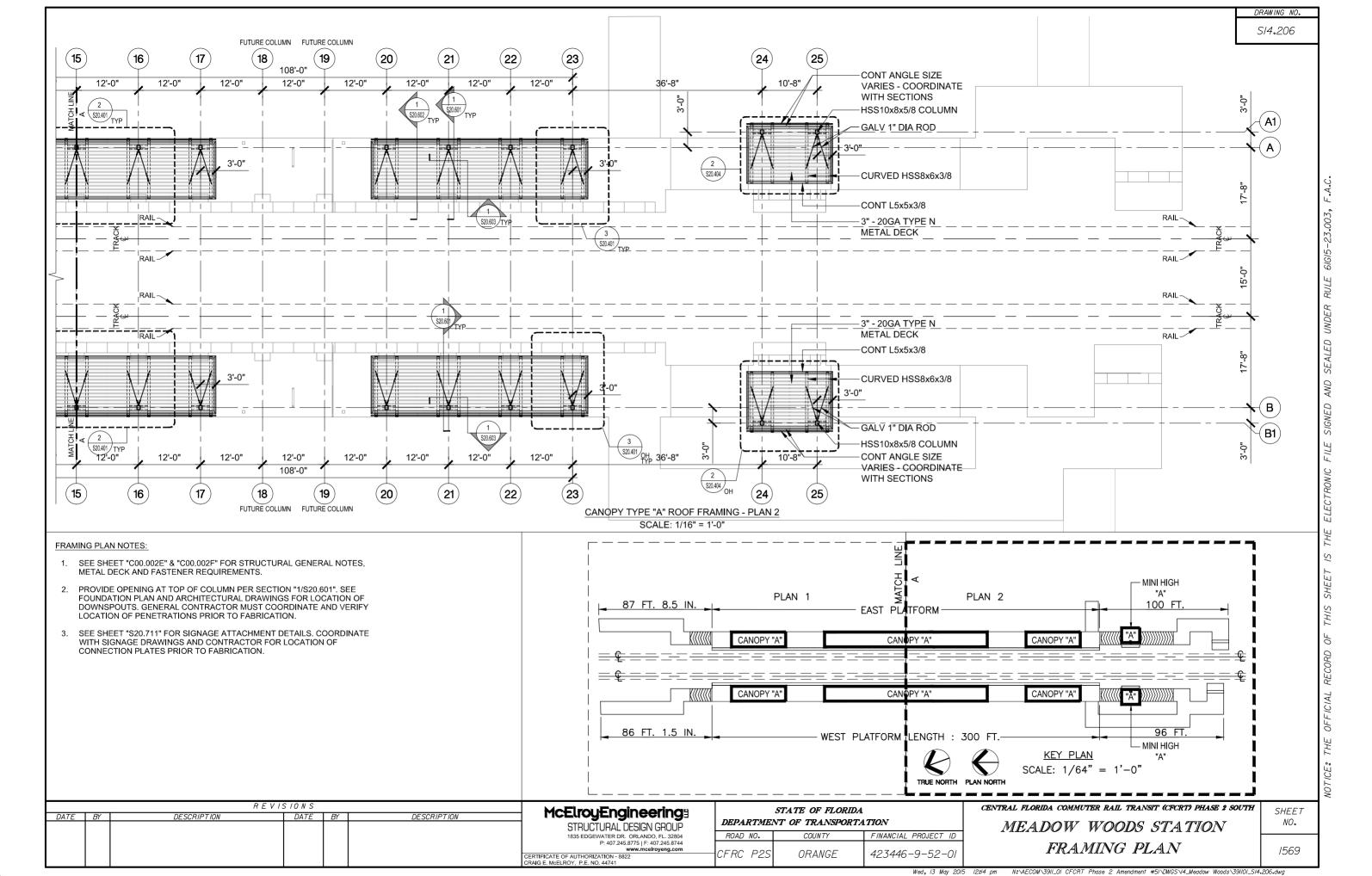












	LIGHTING FIXTURE SCHEDULE									
SYMB TYPE DESCRIPTION			VOLT	# Lamps	LAMP TYPE	MOUNTING	REMARKS/LOCATION			
	A4	4'-0" EXTRUDED ALUMINUM SURFACE MOUNTED LINEAR LED LIGHT FIXTURE. 400K, 80x80 BEAM PATTERN, MINIMUM 3200 DELIVERED LUMENS, VANDAL RESISTANT HOUSING UL LISTED FOR WET LOCATION.	120	N/A	LED	SURFACE	STANDARD 'A' & 'F' CANOPIES			
Q	B1	COLUMN MOUNTED UPLIGHT WITH SOLID CUTOFF VISOR, ASYMETRIC DISTRIBUTION WITH AIMING ADJUSTMENT. 14000 LUMEN OUTPUT, UL LISTED FOR WET LOCATION	120	1	LED	COLUMN/ SURFACE	STANDARD 'A' CANOPIES			
<b>•</b>	С	19" POST TOP MOUNTED LED FIXTURE, 12000 LUMEN OUTPUT, POLE FINISH TO MATCH FIXTURE, 5" DIAMETER & 12' HIGH ROUND ALUMINUM WITH POWDER COAT FINISH.	120	1	LED	POLE	RAMP AND SIDEWALKS			

CRITERIA FOR VARIOUS ARE	AS AS FOLLOWS:
AREA	AVERAGE MAINTAINED FC LEVEL
FARE VENDING AREAS	20
PLATFORM UNDER CANOPY	10
PLATFORM BEYOND ENDS OF CANOPY	5
ANCILLARY SPACES	20
SERVICE AND UTILITY	10
ENTRANCE PLAZA	10
BUS PLATFORMS	5
BUS LOOP	2
KISS AND RIDE AREAS	5
PARK AND RIDE AREAS	2
PEDESTRIAN WALKWAYS	3
ENTRANCE AND EXIT ROADWAYS	2

	SITE LIGHTING FIXTURE SCHEDULE									
SYMB	TYPE	DESCRIPTION	VOLT	# Lamps	LAMP Type	MOUNTING	REMARKS/LOCATION			
<b>₽</b>	SA1	OUTDOOR PARKING LOT FULL CUT OFF LIGHTING FIXTURE WITH DIE CAST ALUMINUM HOUSING. TYPE III DISTRIBUTION, 18000 LUMEN OUTPUT.	240	1	LED	POLE	24 FOOT POLE			
<b>□</b>	SA2	SIMILAR TO TYPE SA1 WITH TWO HEADS AT 180 DEGREES OFFSET, DIE CAST ALUMINUM HOUSING, TYPE III DIST, 18000 LUMEN OUTPUT PER HEAD.	240	2	LED	POLE	24 FOOT POLE			
۳	LD1	LED LANDSCAPE LIGHT, FULL ENCLOSED AND GASKETED HOUSING, UL LISTED FOR WET LOCATION.	120	1	LED	POST				

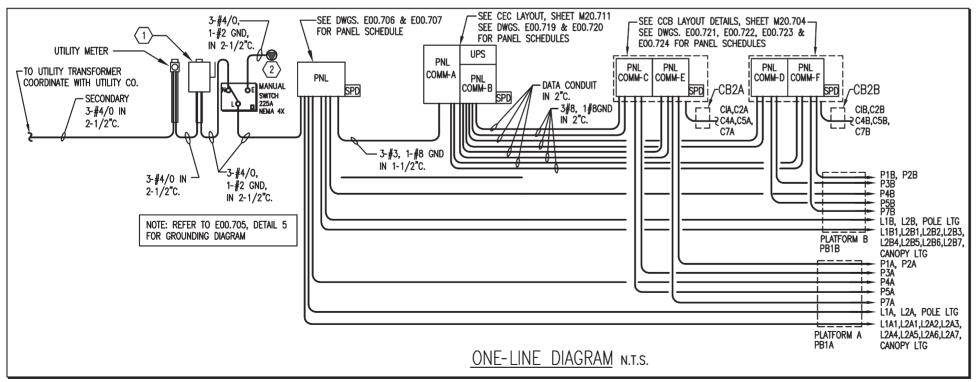
## LIGHTING FIXTURE SCHEDULE NOTES:

- 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. EMERGENCY LIGHTING ON DRAWINGS REQUIRE A CENTRAL INVERTER OR LOCAL BATTERY PER SPECIFICATIONS.

### RISER NOTES:

- (1) RAIN TIGHT 400A, 2-POLE SOLID NEUTRAL FUSIBLE DISCONNECT SWITCH WITH 225A FUSES, 100KAIC RATING. DISCONNECT HOUSING TO BE LOCKABLE.
- $\fbox{2}$  Generator receptacle: 400a, 125/250v,1ø,3W circuit breaking receptacle, Nema 4 enclosure.

NOTE: ALL CONDUITS TO BE SEALED TO PREVENT WATER INTRUSION (TYP).



PLAN DESIGN  L2A1  L2A2  L2A3  L2A4  L2A5  L2A6  L2A7  L2B1  L2B2  L2B3  L2B4  L2B5  L2B4  L2B5  L2B6  L2B7	ATFORM CONNECTI CIRCUITING  PNL-5  PNL-7  PNL-13  PNL-15  PNL-17  PNL-19  PNL-21  PNL-9  PNL-11  PNL-10  PNL-12	DESCRIPTION  CANOPY LIGHTING PLATFORM A  CANOPY LIGHTING PLATFORM A	BRANCH CIRCUIT WIRING & CONDUIT  2#12, 1#12G - 1"C.  2#12, 1#12G - 1"C.	PT PT PT PT
L2A2 L2A3 L2A4 L2A5 L2A6 L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-7 PNL-13 PNL-15 PNL-17 PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C.	PT PT PT
L2A2 L2A3 L2A4 L2A5 L2A6 L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-7 PNL-13 PNL-15 PNL-17 PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C.	PT PT PT
L2A3	PNL-13 PNL-15 PNL-17 PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C.	PT PT
L2A4 L2A5 L2A6 L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-15 PNL-17 PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1°C. 2#12, 1#12G - 1°C. 2#12, 1#12G - 1°C.	PT
L2A5 L2A6 L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-17 PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C.	-
L2A6 L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-19 PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A CANOPY LIGHTING PLATFORM A	2#12, 1#12G - 1"C.	1 [
L2A7 L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-21 PNL-9 PNL-11 PNL-10	CANOPY LIGHTING PLATFORM A		+
L2B1 L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-9 PNL-11 PNL-10			PT
L2B2 L2B3 L2B4 L2B5 L2B6 L2B7	PNL-11 PNL-10		2#12, 1#12G - 1"C. 2#12, 1#12G - 1"C.	P1   P1
L2B3 L2B4 L2B5 L2B6 L2B7	PNL-10	CANOPY LIGHTING PLATFORM B		+-
L2B4 L2B5 L2B6 L2B7		CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	PI
L2B5 L2B6 L2B7	PNI-17	CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	P1
L2B6 L2B7		CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	PI
L2B7	PNL-14	CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	PI
	PNL-16	CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	PI
P1A, P2A	PNL-18	CANOPY LIGHTING PLATFORM B	2#12, 1#12G - 1"C.	P1
	PNL-COMM-E	TICKET VENDING PLATFORM A	2#12, 1#12G - 1"C. EACH CKT	
P1B, P2B	PNL-COMM-F	TICKET VENDING PLATFORM B	2#12, 1#12G - 1"C. EACH CKT	Т
P3A	PNL-COMM-C	VARIABLE MESSAGE SIGN PLATFORM A	2#12, 1#12G - 1"C.	Т
P3B	PNL-COMM-D	VARIABLE MESSAGE SIGN PLATFORM B	2#12, 1#12G - 1"C.	T
P4A	PNL-6	RECEPTACLES PLATFORM A	2#12, 1#12G - 1"C.	$\top$
	PNL-8	RECEPTACLES PLATFORM B	2#12, 1#12G - 1"C.	+
	PNL-COMM-C	ASSISTANCE TELEPHONE PLATFORM A	2#12, 1#12G - 1"C.	+
	PNL-COMM-D	ASSISTANCE TELEPHONE PLATFORM B	2#12, 1#12G - 1"C.	+
	PNL-COMM-E. F	TICKET VALIDATOR	2#12, 1#12G - 1 °C. EACH CKT	+
			# · #	╁
	PNL-71	IRRIGATION CONTROL	2#12, 1#12G - 3/4°C.	π
	RACEWAY ONLY	TICKET VENDING MACHINE PLATFORM A	1*C. WITH PULLSTRING	$\perp$
	RACEWAY ONLY	TICKET VENDING MACHINE PLATFORM B	1°C. WITH PULLSTRING	╄
C2A	RACEWAY ONLY	SECURITY CAMERA PLATFORM A	1°C. WITH PULLSTRING	┸
C2B	RACEWAY ONLY	SECURITY CAMERA PLATFORM B	1°C. WITH PULLSTRING	┸
C3A	RACEWAY ONLY	VARIABLE MESSAGE SIGN PLATFORM A	1°C. WITH PULLSTRING	
C3B	RACEWAY ONLY	VARIABLE MESSAGE SIGN PLATFORM B	1°C. WITH PULLSTRING	
C4A	RACEWAY ONLY	PUBLIC ADDRESS PLATFORM A	1°C. WITH PULLSTRING	Т
C4B	RACEWAY ONLY	PUBLIC ADDRESS PLATFORM B	1°C. WITH PULLSTRING	Т
C5A	RACEWAY ONLY	PAT / ECB PLATFORM A	1*C. WITH PULLSTRING	Т
C5B	RACEWAY ONLY	PAT / ECB PLATFORM B	1°C. WITH PULLSTRING	T
C7A, C7B	RACEWAY ONLY	TICKET VALIDATOR	1°C. WITH PULLSTRING EACH	$\top$
,		LENGTH OF TYPE "C" COMMUNICATION CABLE		
151152153	PNL-25,27,29	SITE LIGHTING LS1 2#12, 1#12G - 3/4°C.		P
	PNL-31,33,35	SITE LIGHTING LS3 2#10, 1#10G - 3/4"C.	2#8, 1#10G - 1"C. EACH CKT	PI
	PNL-22:24	SITE LIGHTING	* "	PF
		SITE LIGHTING SITE LIGHTING	2#12, 1#12G - 3/4°C.	+
	PNL-26:28		2#12, 1#12G - 3/4°C.	P1
	PNL-30:32	SITE LIGHTING	2#10, 1#10G - 3/4°C.	P1
	PNL-34:36	SITE LIGHTING	2#12, 1#12G - 3/4°C.	PI
	PNL-44:46	SITE LIGHTING	2#10, 1#10G - 3/4°C.	PI
	PNL-48:50	SITE LIGHTING	2#8, 1#10G - 1"C.	PF
	PNL-52:54	SITE LIGHTING	2#10, 1#10G - 3/4°C.	PF
LS14	PNL-49:51	SITE LIGHTING	2#10, 1#10G - 3/4°C.	P1
LS15	PNL-53:55	SITE LIGHTING	2#10, 1#10G - 3/4°C.	P
LS16	PNL-57:59	SITE LIGHTING	2#10, 1#10G - 3/4°C.	P1
LS17	PNL-61:63	SITE LIGHTING	2#10, 1#10G - 3/4°C.	PF
LS18	PNL-65:67	SITE LIGHTING	2#10, 1#10G - 3/4°C.	Pī
LS19	PNL-60:62	SITE LIGHTING	2#10, 1#10G - 3/4°C.	PF
	PNL-64,66,68	SITE LIGHTING	2#10, 1#10G - 3/4"C. EACH CKT	PI
	PNL-70,72,74	SITE LIGHTING	2#10, 1#10G - 3/4"C. EACH CKT	P
	PNL-43	SITE LIGHTING	2#8, 1#10G - 1"C.	PI
	PNL-45	SITE LIGHTING	2#8, 1#10G - 1"C.	PI
	PNL-37	SITE LIGHTING	2#8, 1#10G - 1°C.	PF
				PF
_	PNL-47	SITE LIGHTING	2#8, 1#10G - 1*C.	-
	PNL-76	SITE LIGHTING SITE LIGHTING	2#8, 1#10G - 1°C. 2#12, 1#12G - 3/4°C.	P1
	PNI-78			1 00

PT - PHOTOCELL ON - TIMECLOCK OFF

LIGHTING CONTROL DESIGNATION

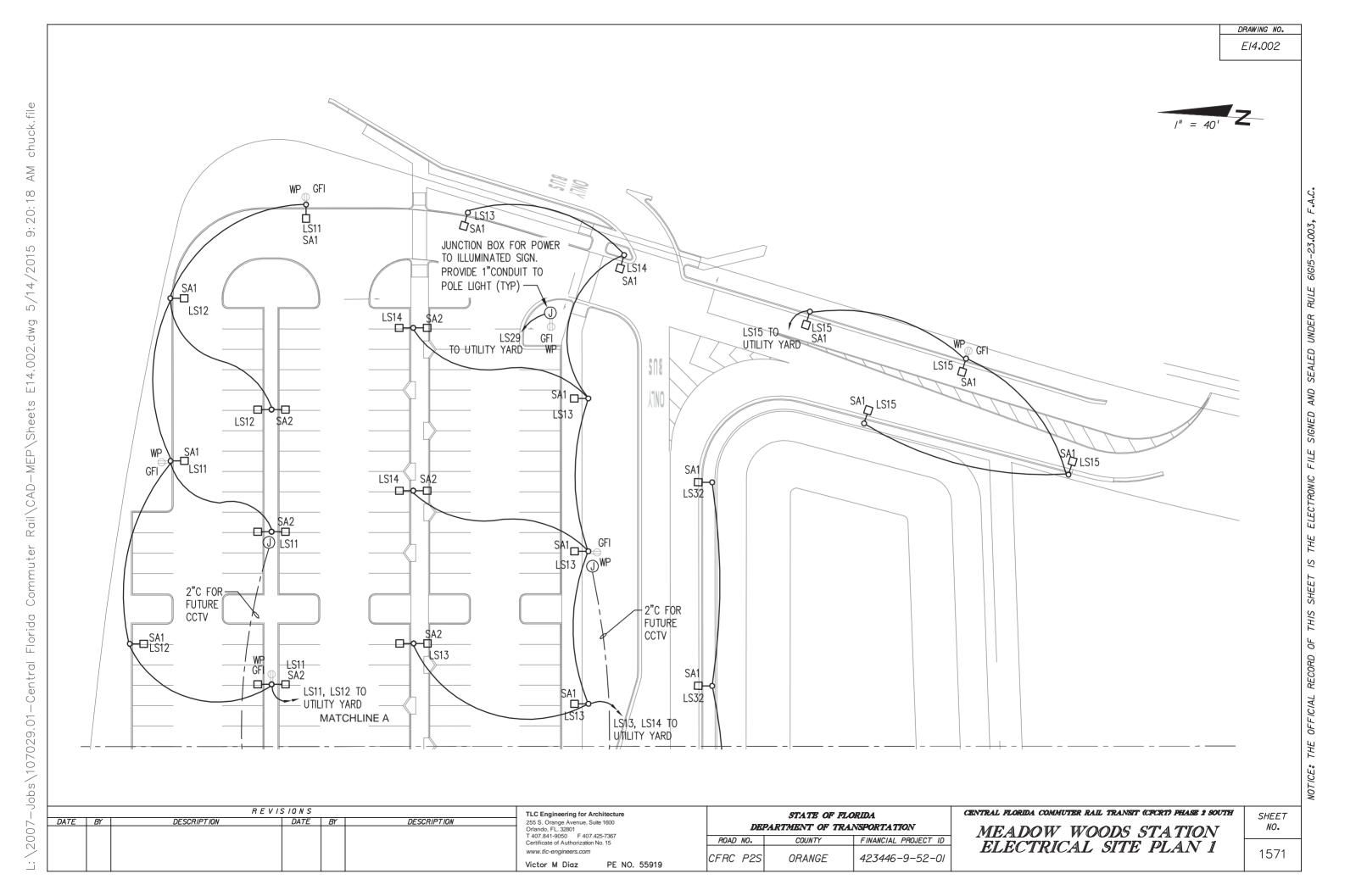
					TLC Engineering for Arc	chitecture		STATE OF FLO	ORTDA	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	255 S. Orange Avenue, Suit	ite 1600	D.		-
						Orlando, FL. 32801	05 7007	DE	PARTMENT OF TRA	NSPORTATION
1						T 407.841-9050 F 407.42 Certificate of Authorization N		ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						www.tlc-engineers.com		CFRC P2S	ORANGE	423446-9-52-01
						Violor M Diaz	PE NO. 55919	0, 1,0 1 20	0,1,1,10	'20' '10' 0' 02' 0'

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION ONE-LINE DIAGRAM & **SCHEDULES** 

NO.

SHEET 1570

DRAWING NO. E14.001



chuck.file

 $\mathbb{A}$ 

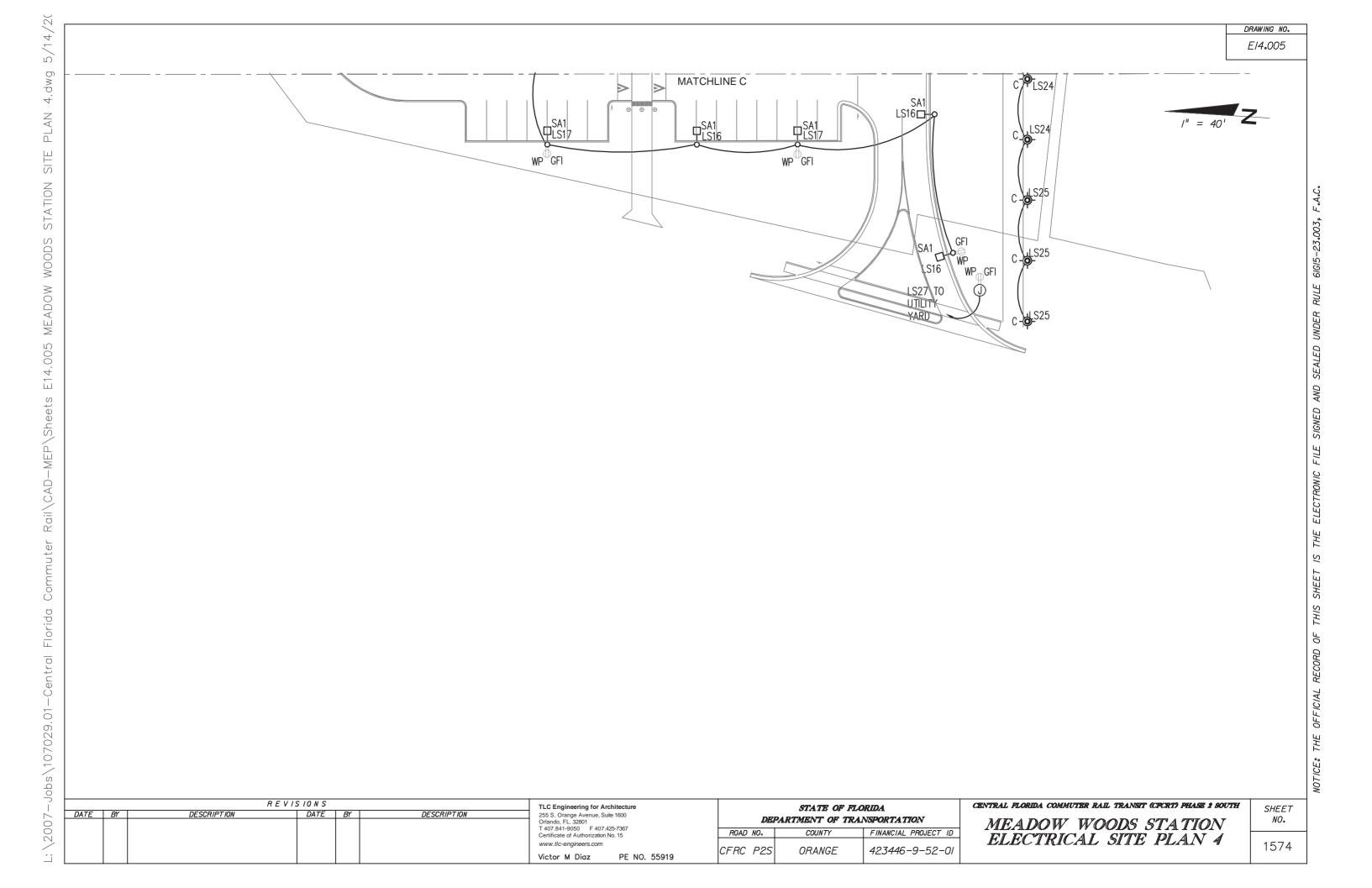
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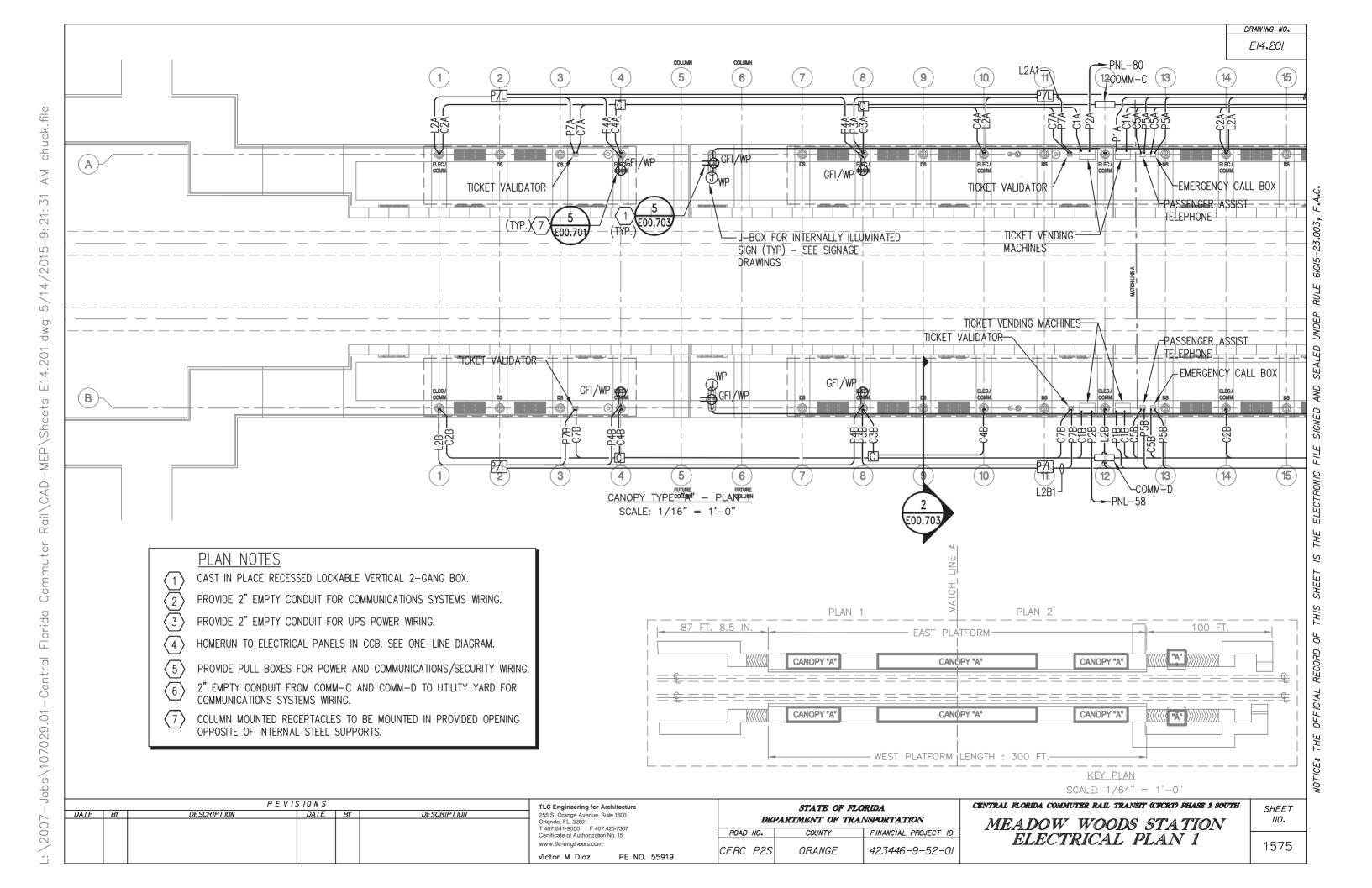
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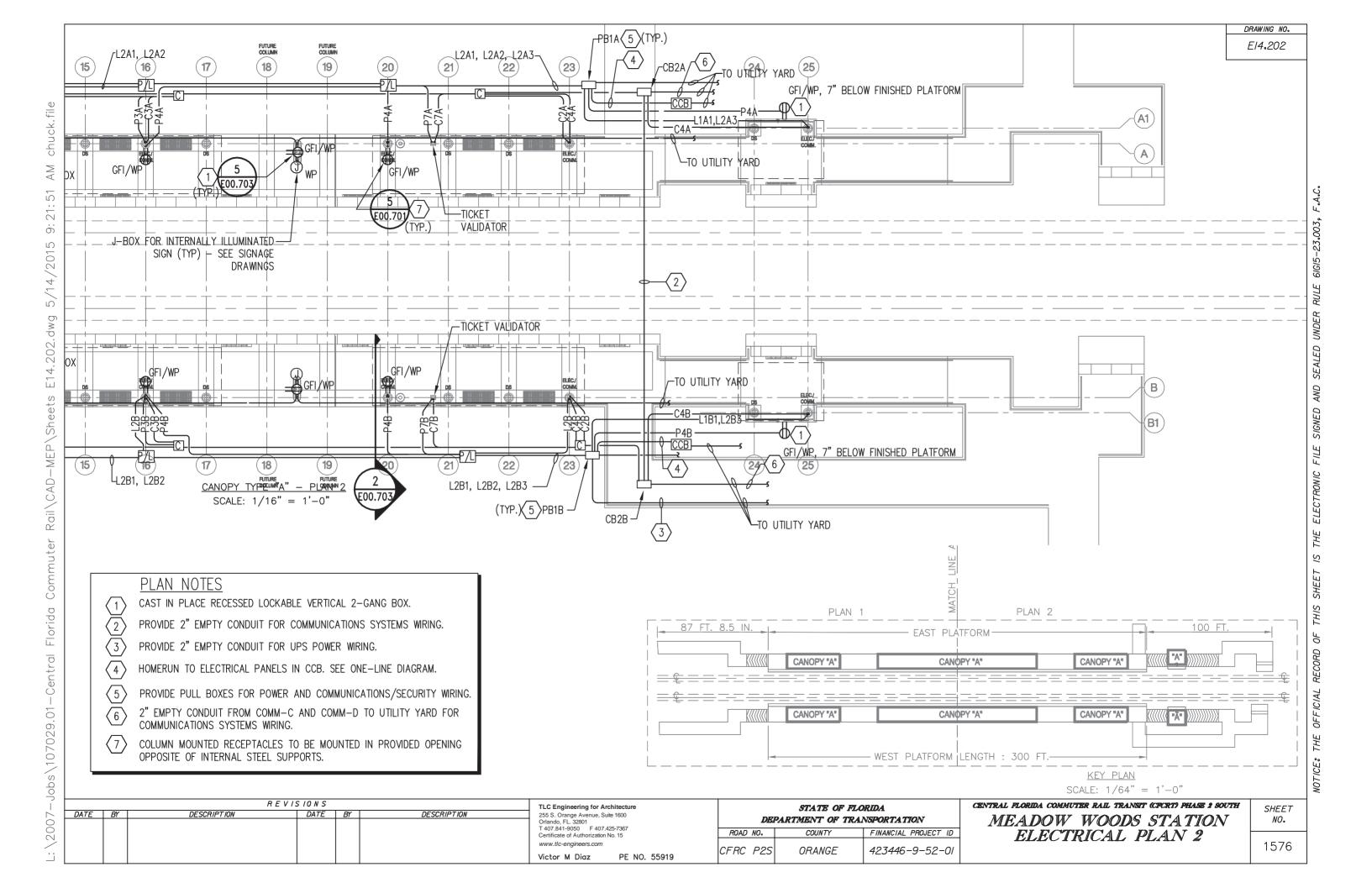
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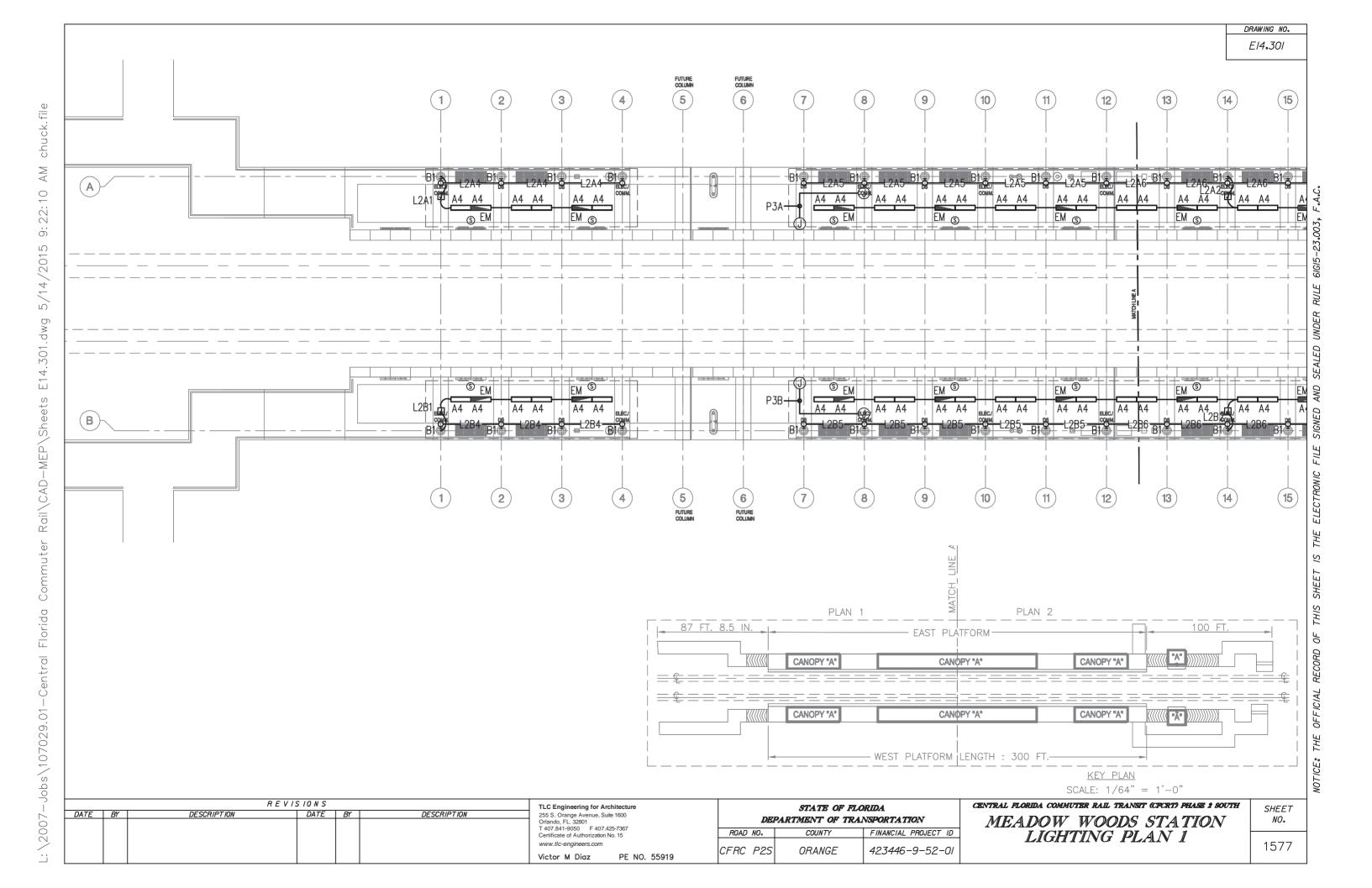
chuck.file  $\stackrel{\forall}{\sim}$ 9:20:55 5/14/2015 E14.004.dwg Rail\CAD-MEP\Sheets Florida -Central -Jobs/107029.01 \2007-

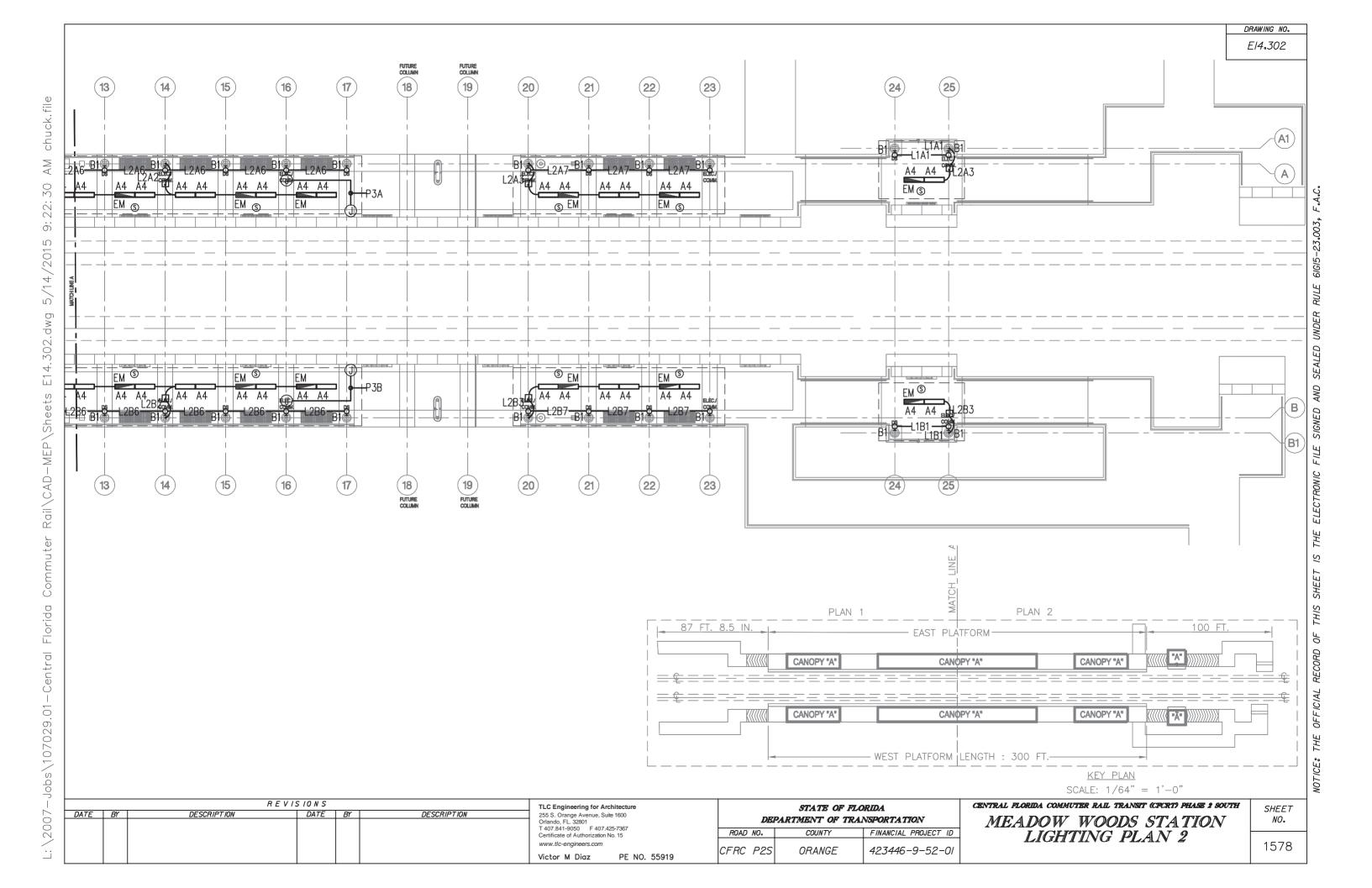
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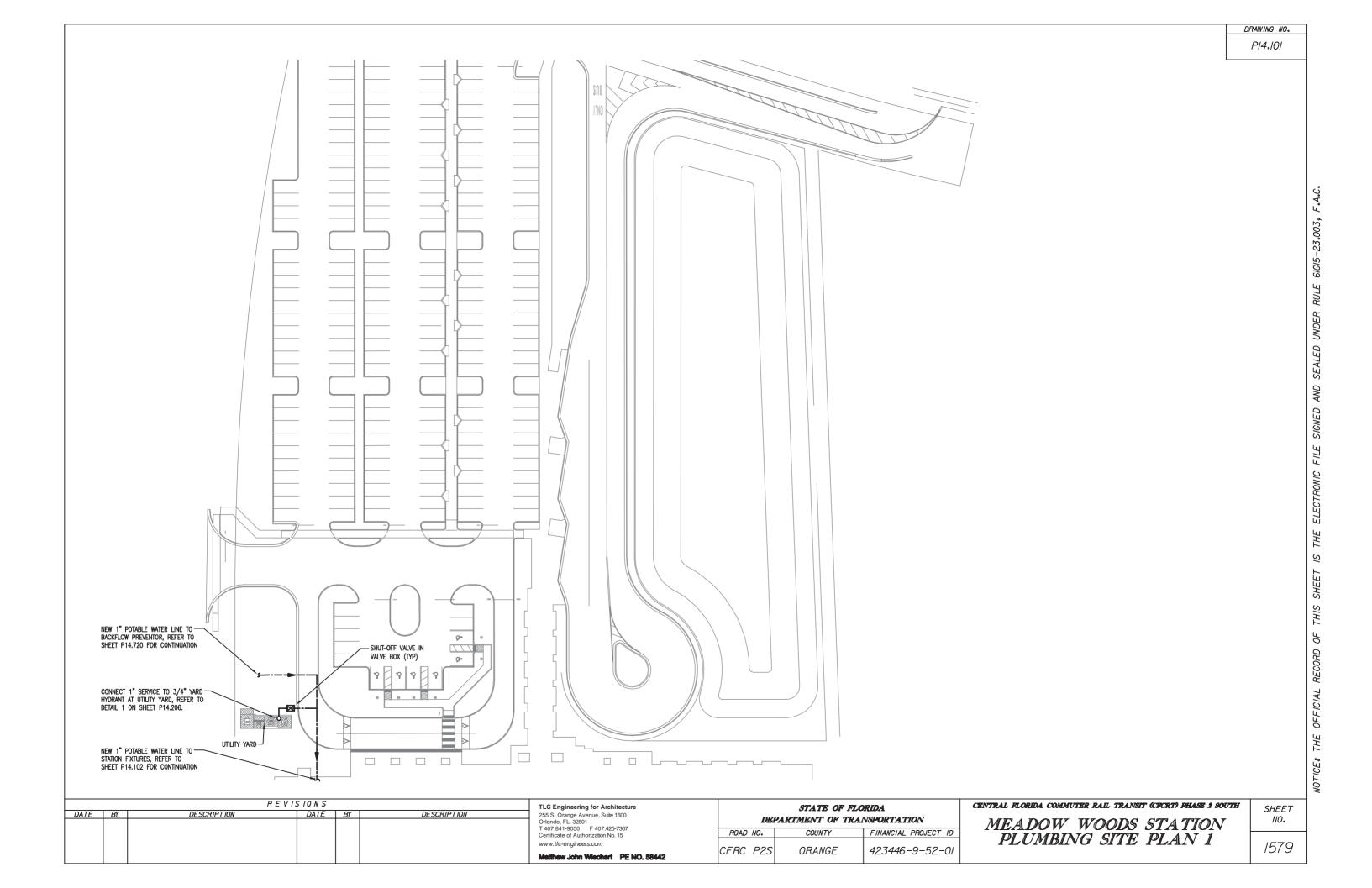


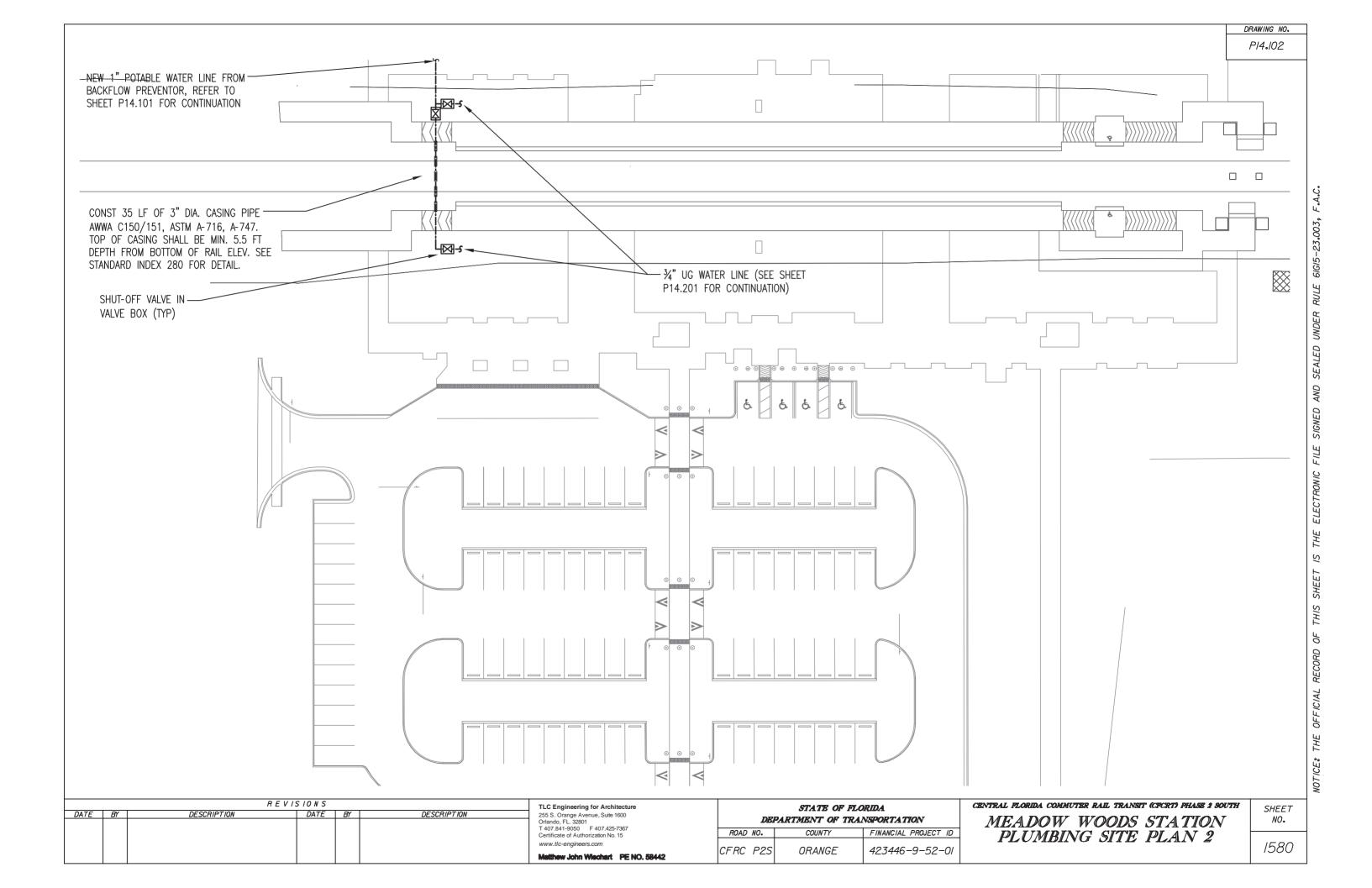


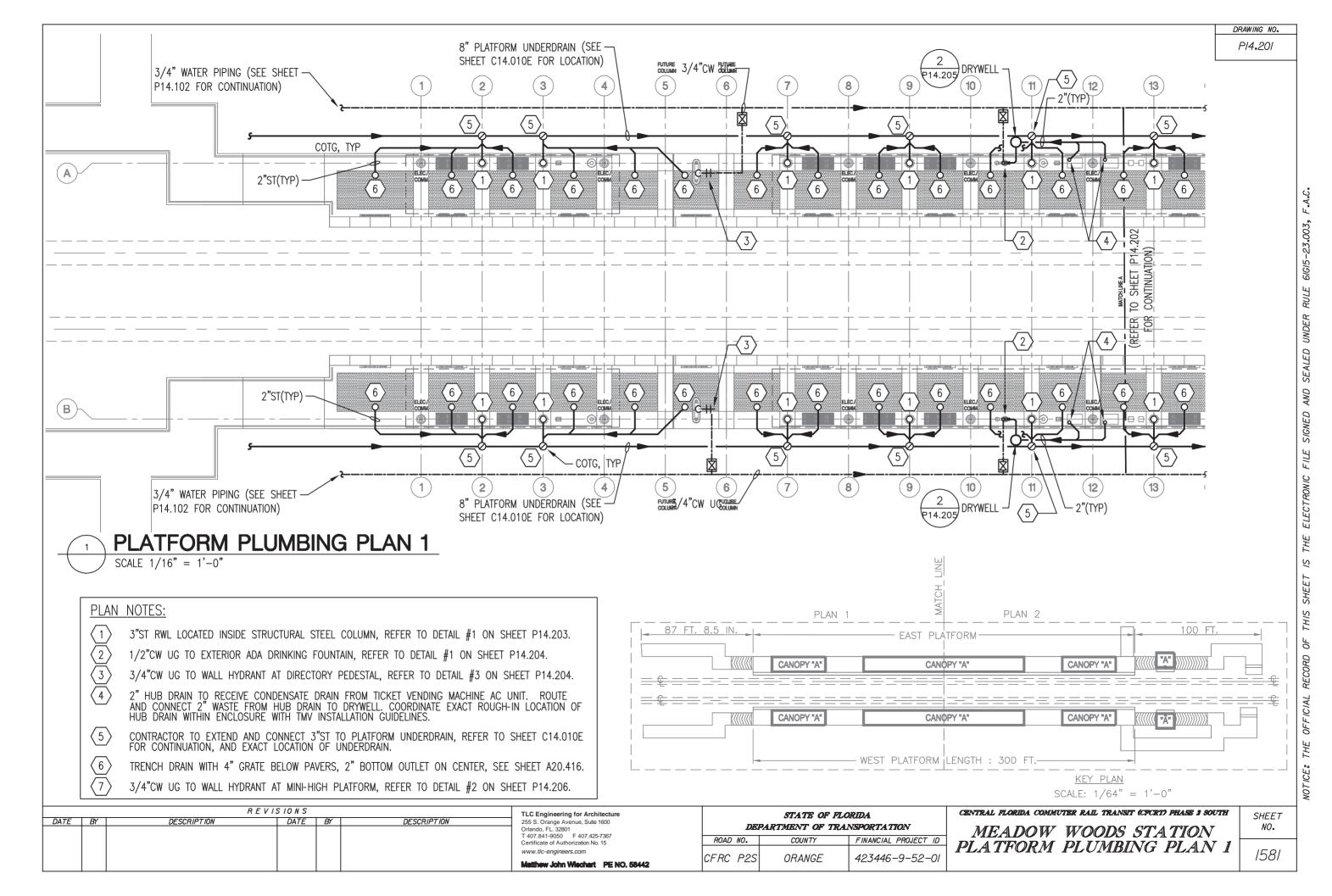


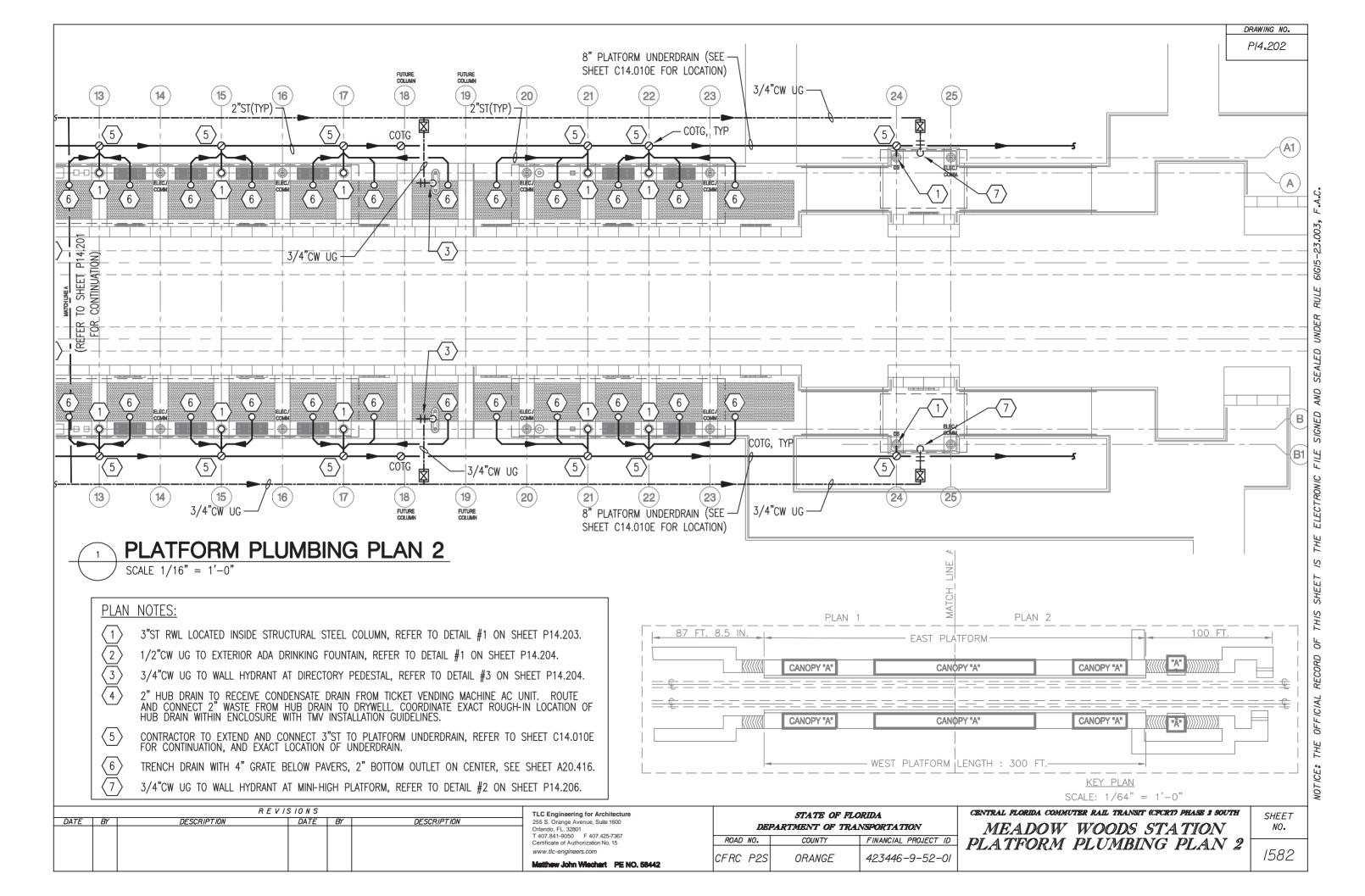


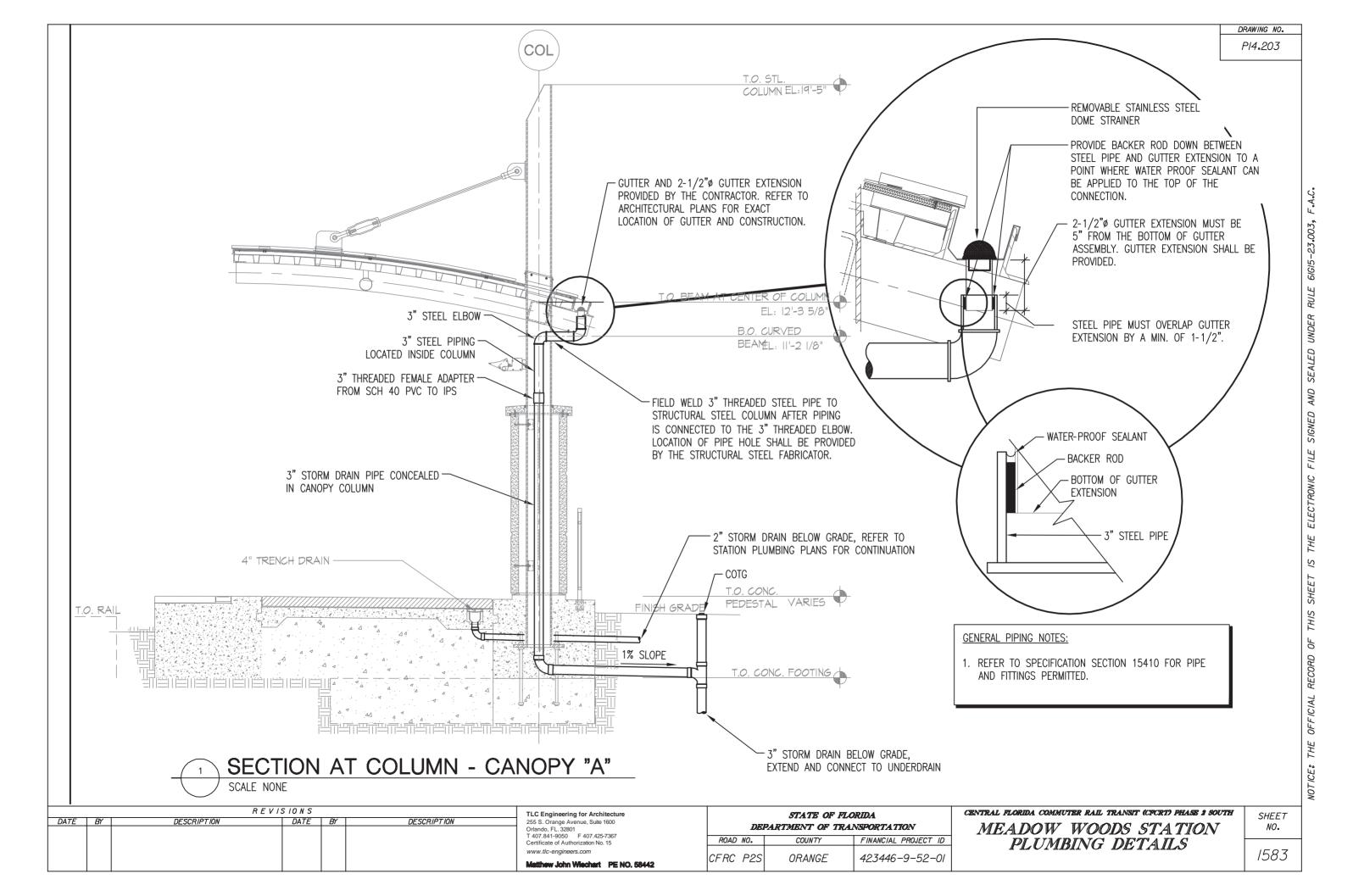




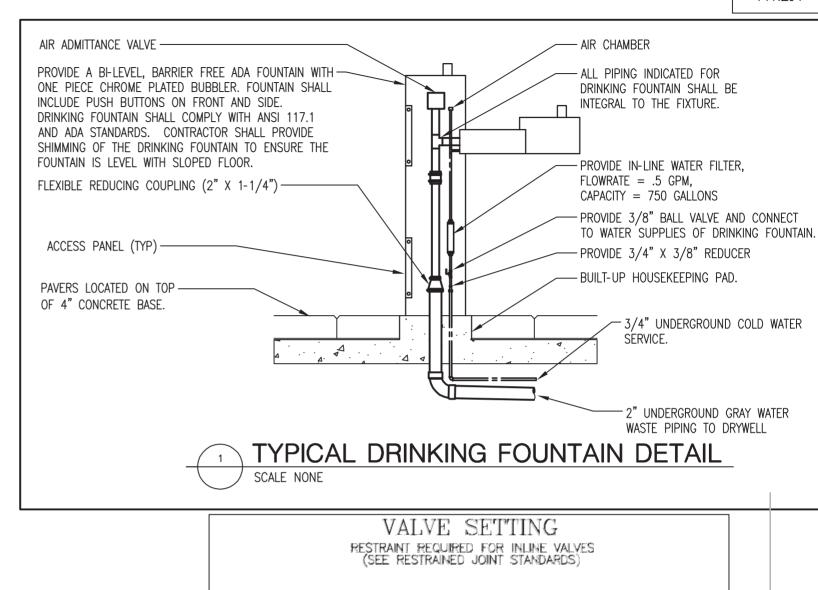


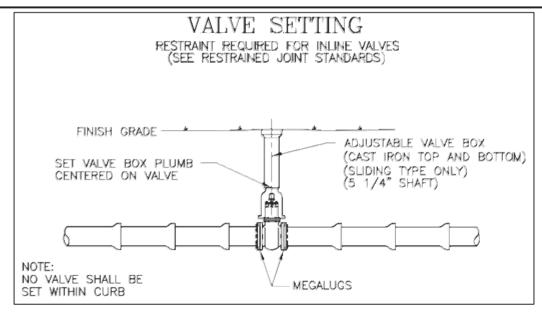




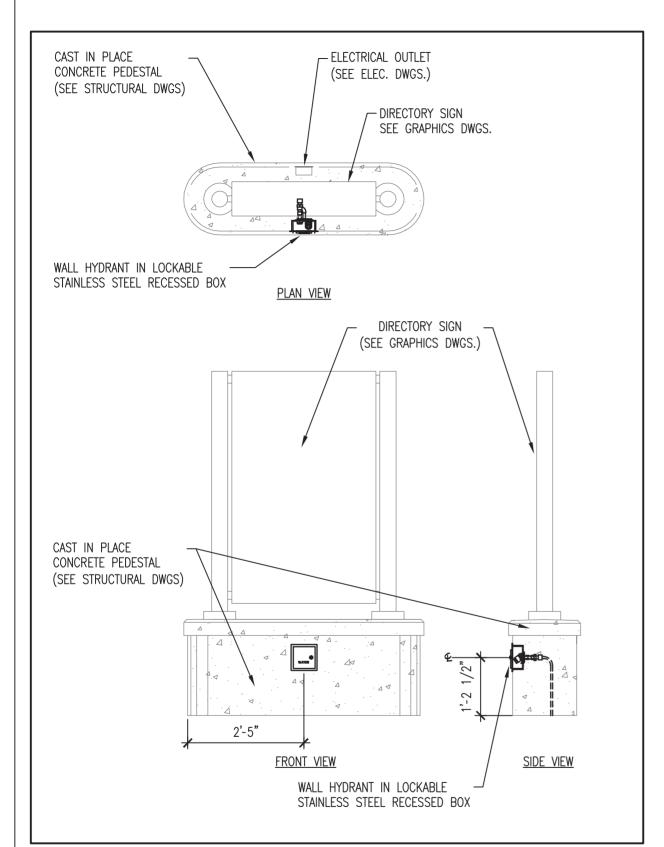












WALL HYDRANT AT DIRECTORY PEDESTAL

SCALE: NONE

		REVIS	TLC Engineering for Architecture			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	255 S. Orange Avenue, Suite 1600 Orlando, Fl. 32801 T 407.841-9050 F 407.425-7367 Certificate of Authorization No. 15 www.tlc-engineers.com Matthew John Wiechert PE NO. 58442

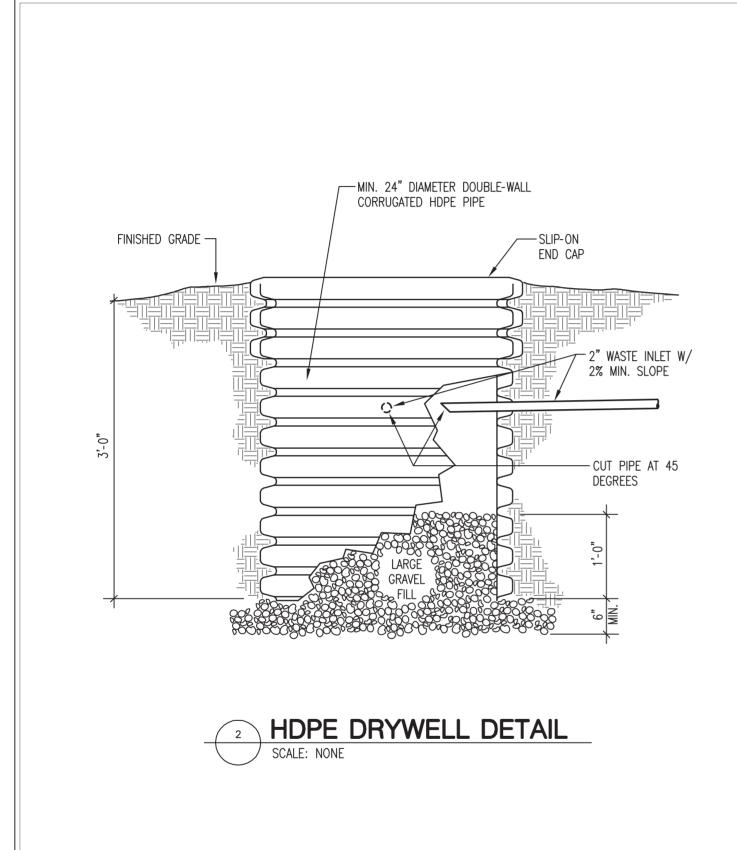
DE	DEPARTMENT OF TRANSPORTATION						
ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
CFRC P2S	ORANGE	423446-9-52-01					

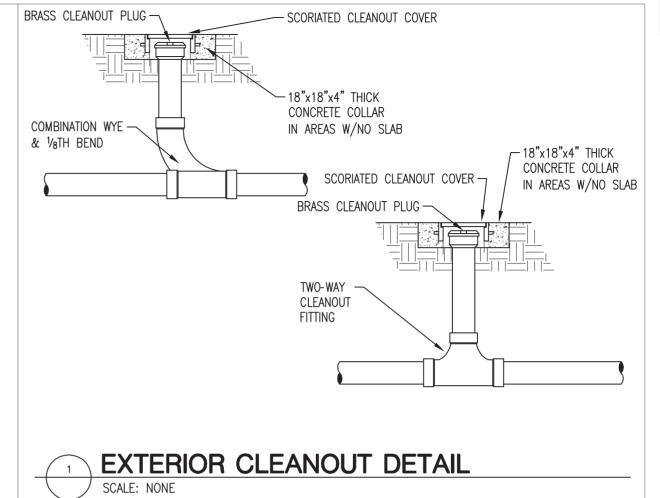
STATE OF PLODINA

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CPCRT) PHASE 2 SOUTH MEADOW WOODS STATION PLUMBING DETAILS

SHEET NO.

1584





R E V I S I O N S

DATE BY DESCRIPTION DATE BY DESCRIPTION 255 S. Orange Avenue, Suite 1600 Orlando, FL. 32801 T407.841-9050 F 407.425-7367 Certificate of Authorization No. 15 www.tlc-engineers.com

Matthew John Wiechert PE NO. 58442

	DE	STATE OF FLO PARTMENT OF TRAI	TRANSPORTATION					
ROAD	NO.	COUNTY	FINANCIAL PROJECT ID					
FRC	P2S	ORANGE	423446-9-52-01					

CENTRAL PLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

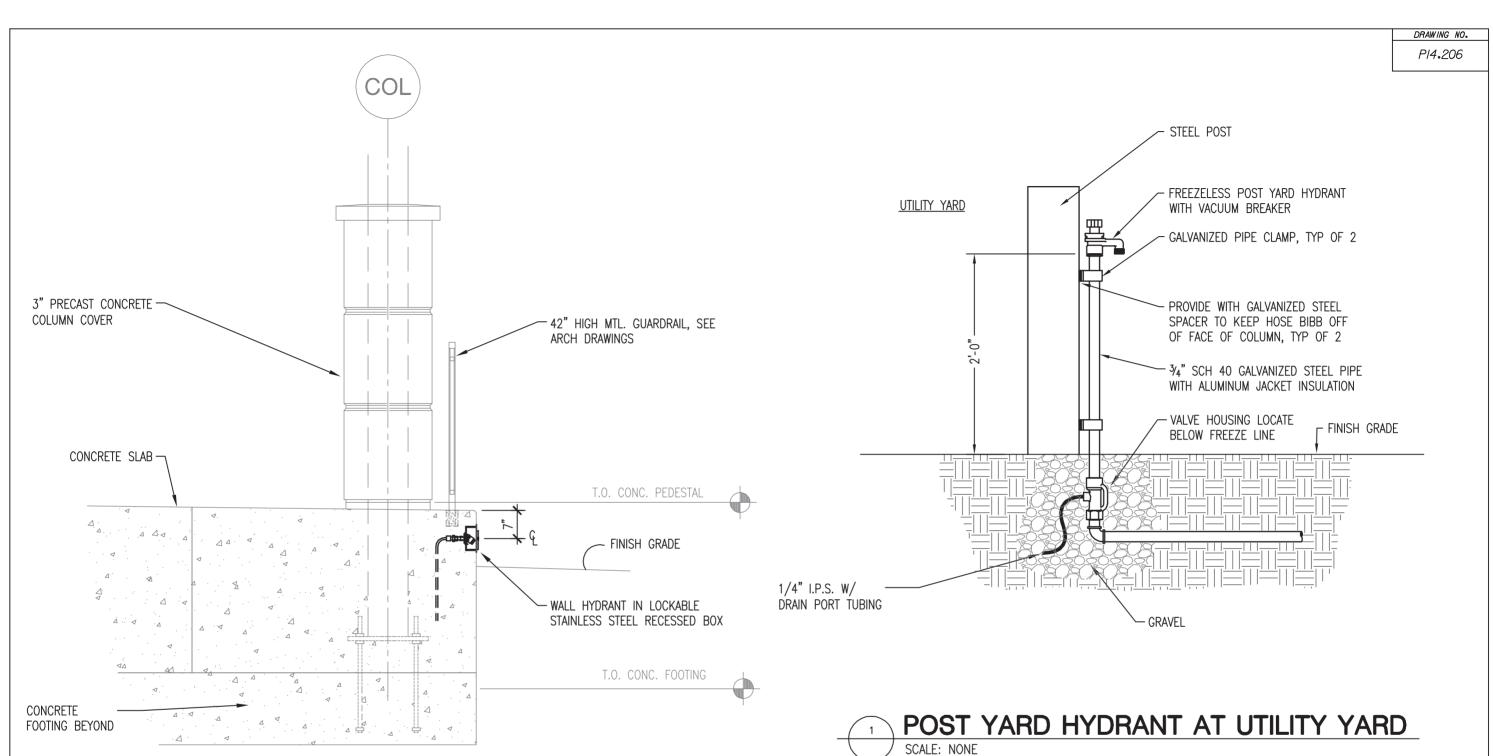
MEADOW WOODS STATION
PLUMBING DETAILS

SHEET NO.

1585

DRAWING NO.

P14.205



# WALL HYDRANT AT MINI-HIGH PLATFORM SCALE: NONE

L	REVISIONS						TLC Engineering for Architecture				
I	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	255 S. Orange Avenue, Suite 1600				
Ι							Orlando, FL. 32801				
ı							T 407.841-9050 F 407.425-7367				
ı							Certificate of Authorization No. 15				
ı							www.tlc-engineers.com				
١							Matthew John Wischart PE NO. 58442				

	STATE OF FLORIDA						
DEPARTMENT OF TRANSPORTATION							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
CFRC P2S	ORANGE	423446-9-52-01					

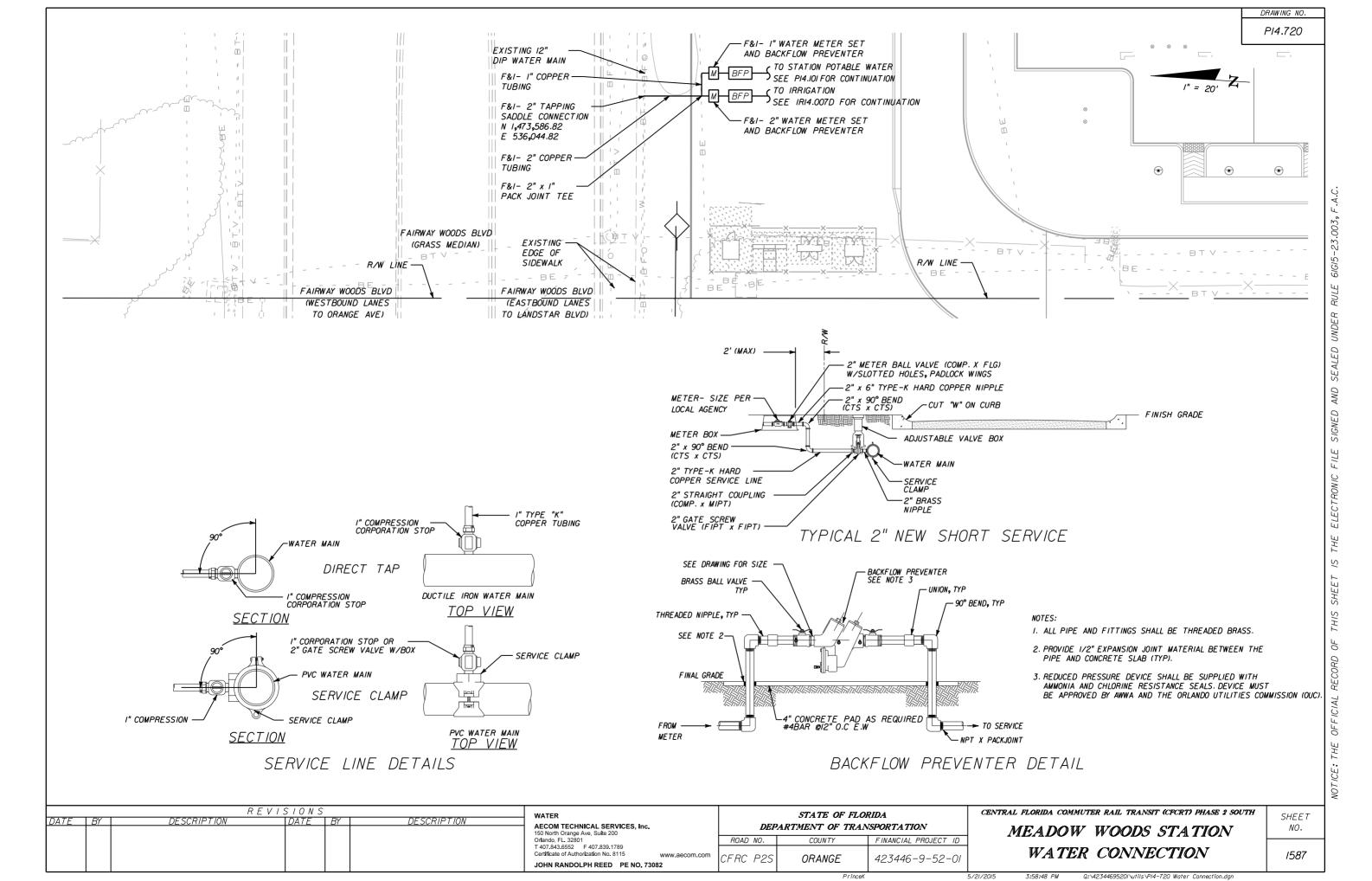
CENTRAL PLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

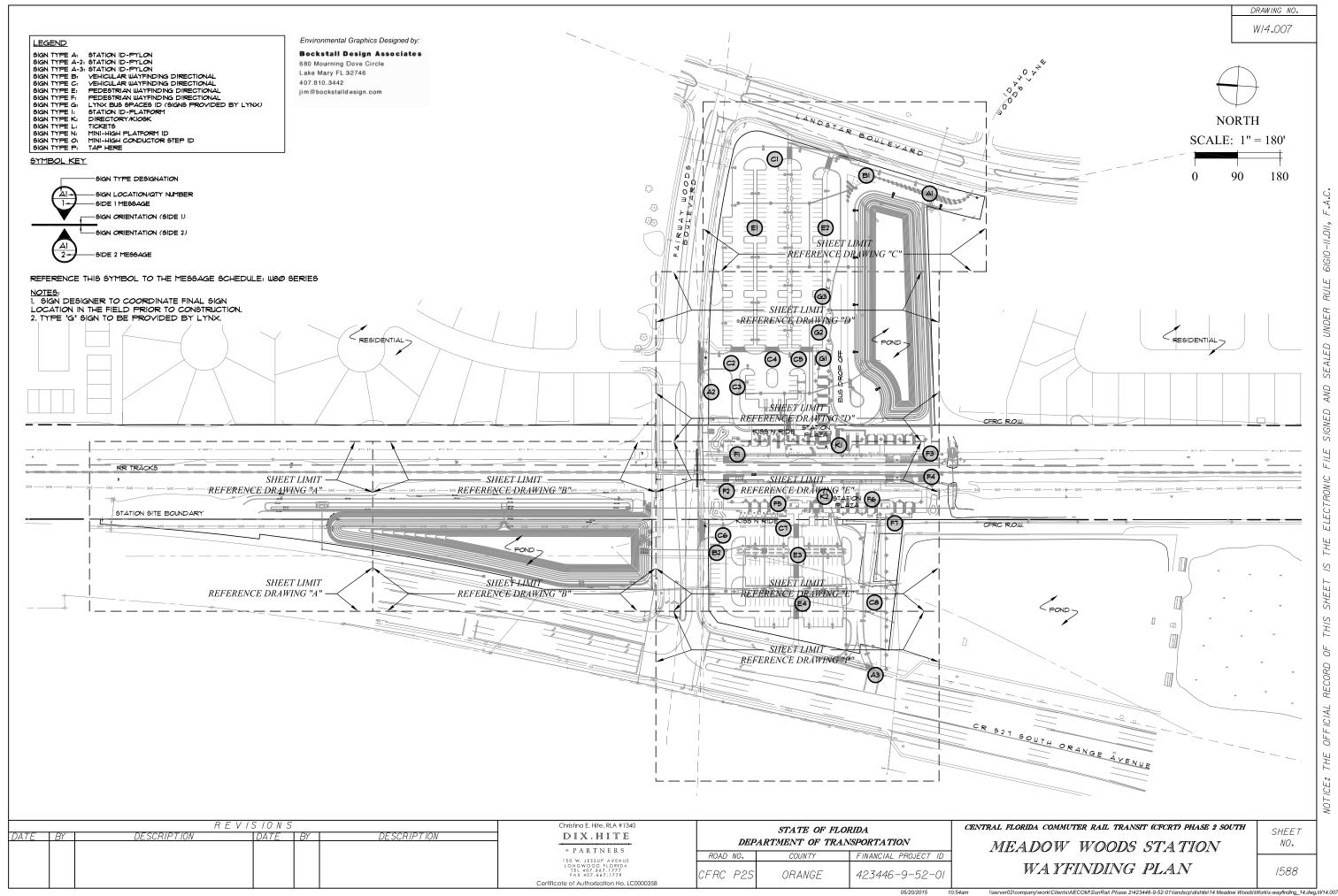
MEADOW WOODS STATION
PLUMBING DETAILS

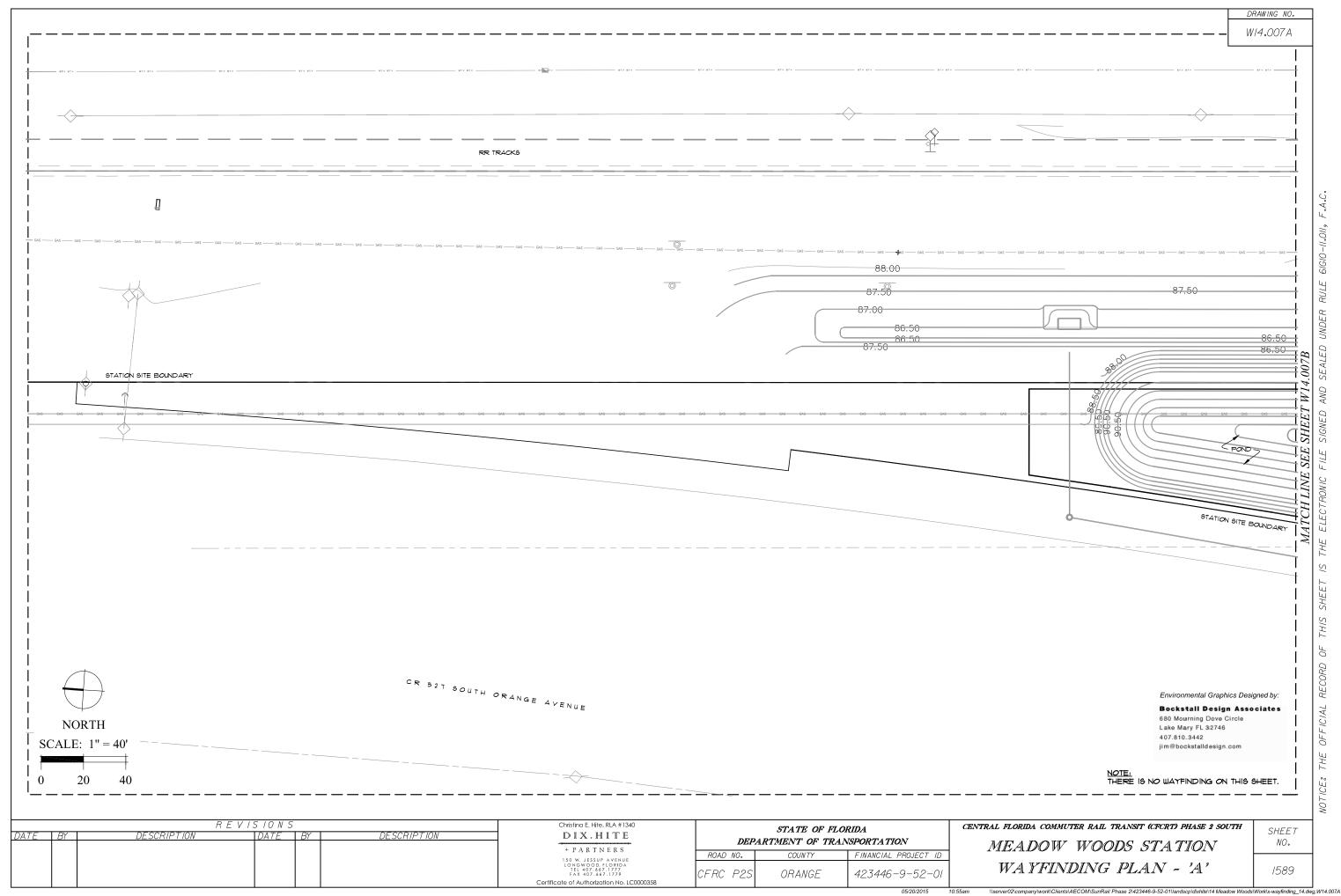
HEET NO.	

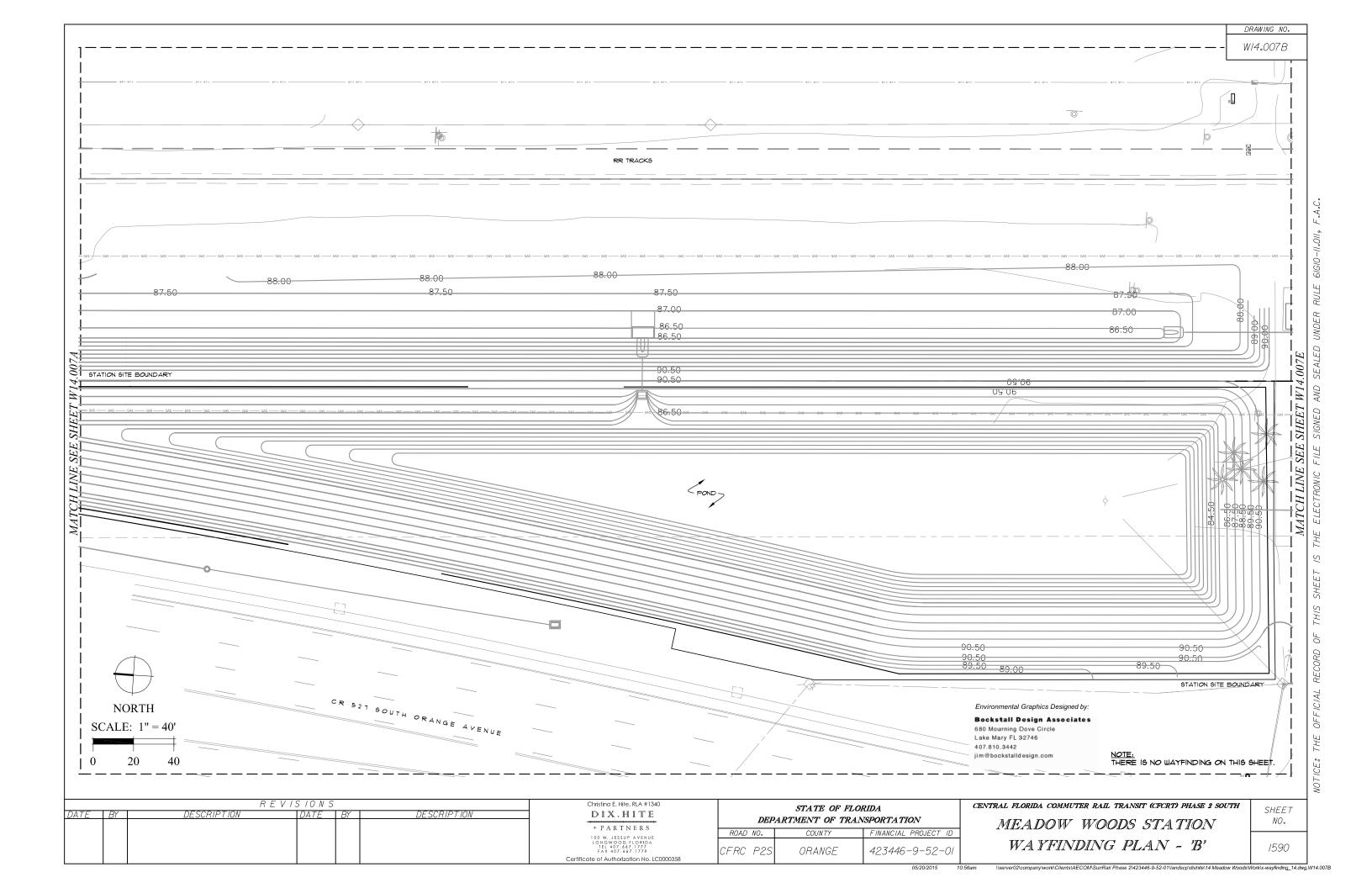
1586

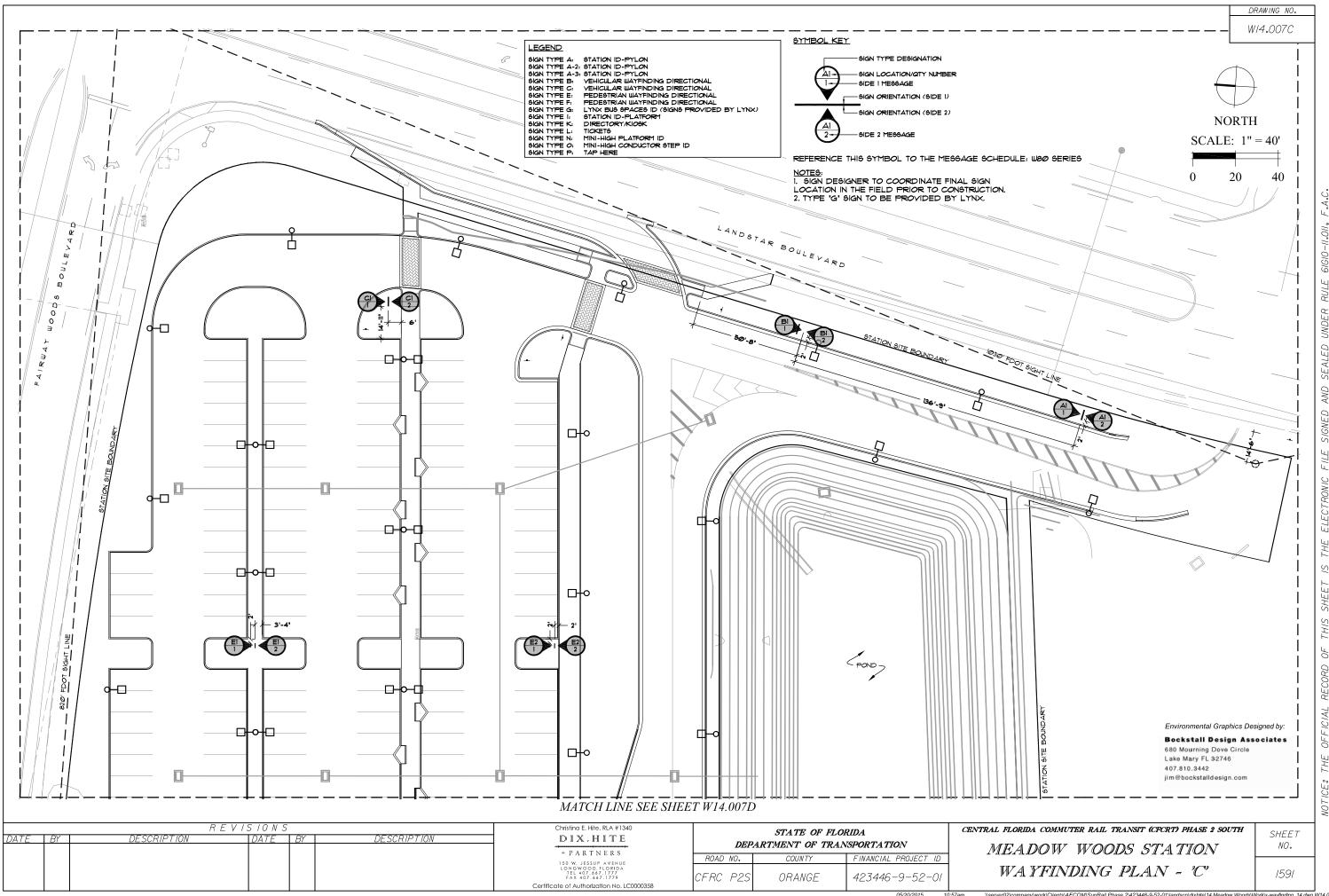
TICE THE OFFICIAL RECORD OF THIS SHEFT IS THE FLECTBONIC FILE SIGNED AN

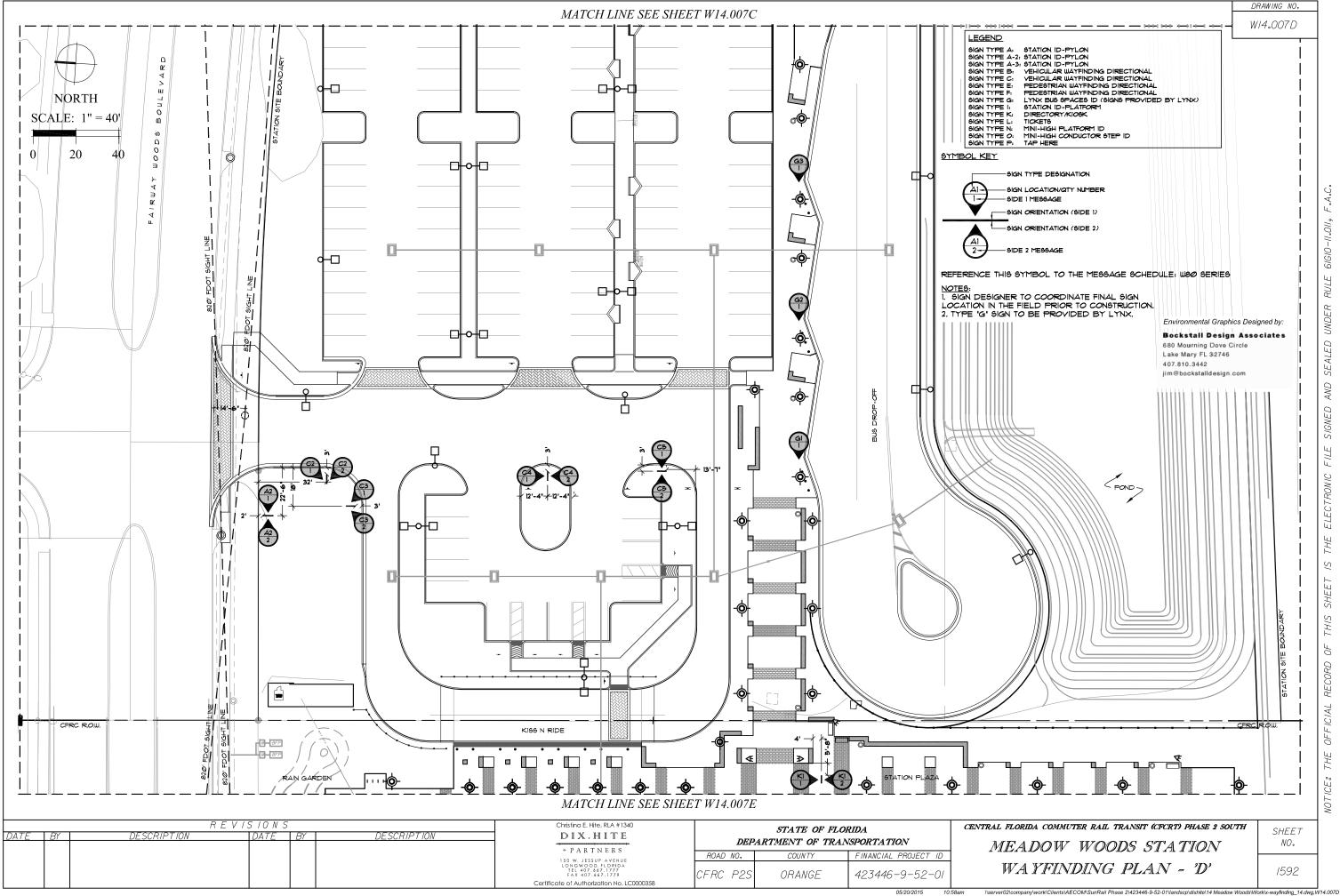


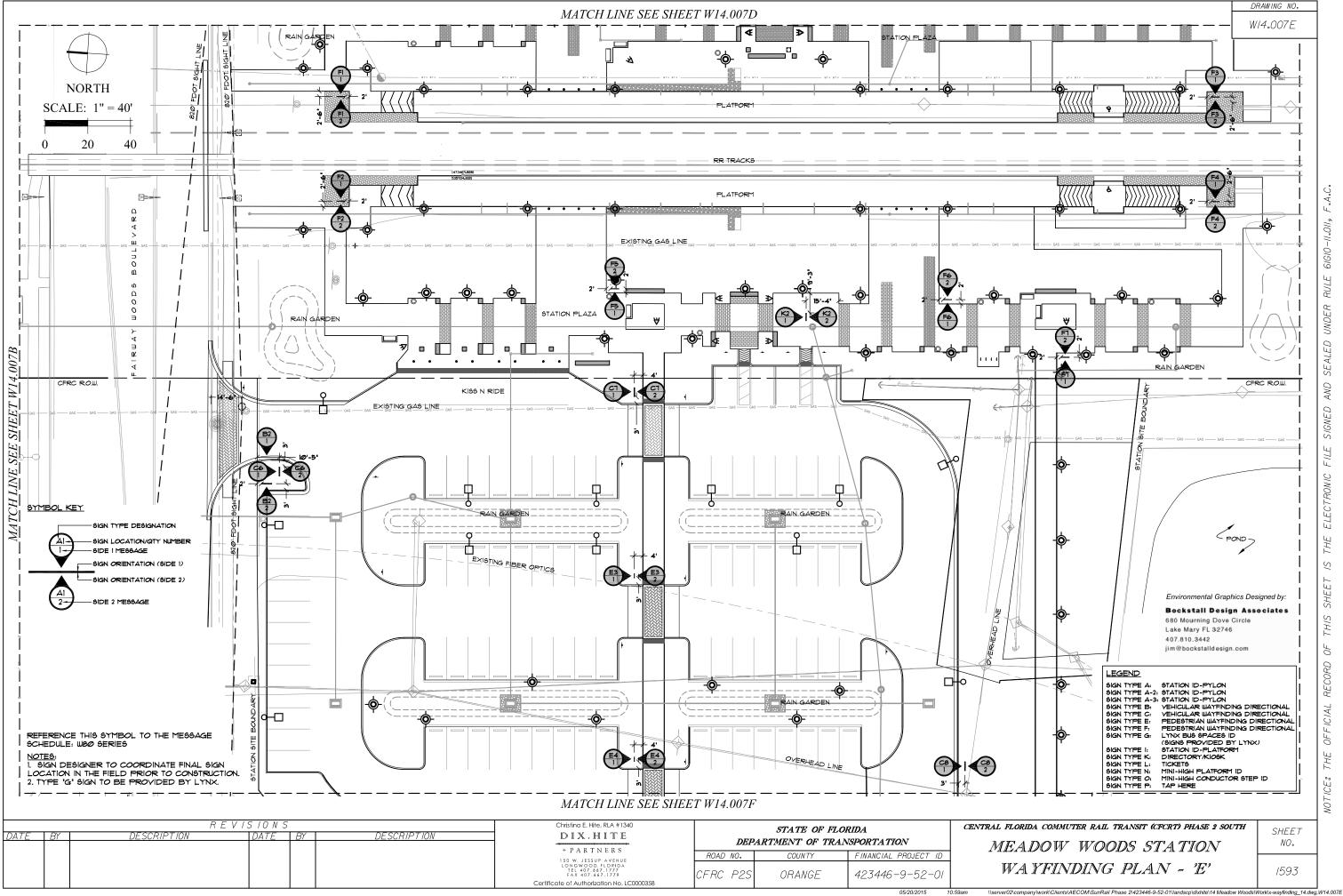


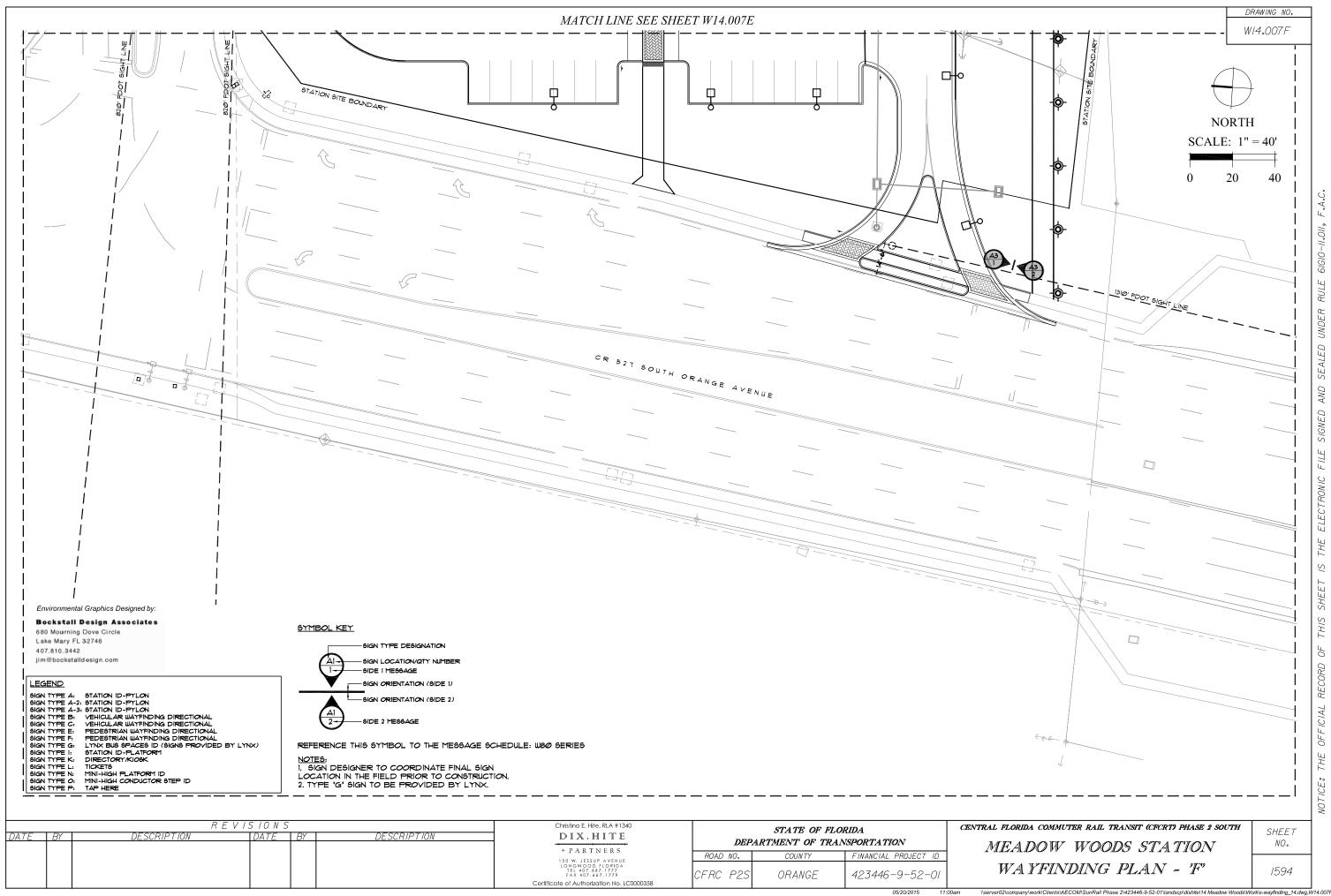


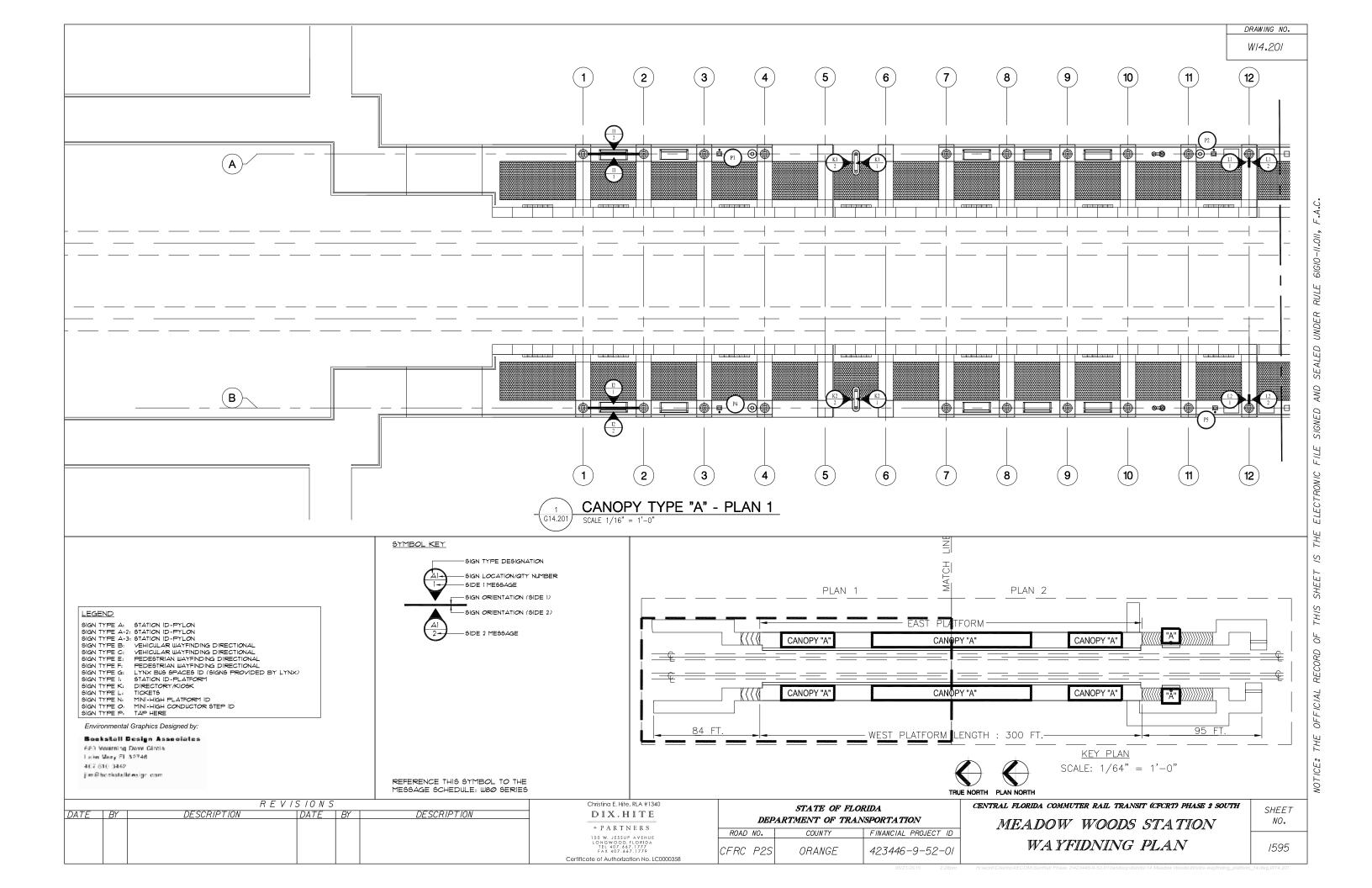


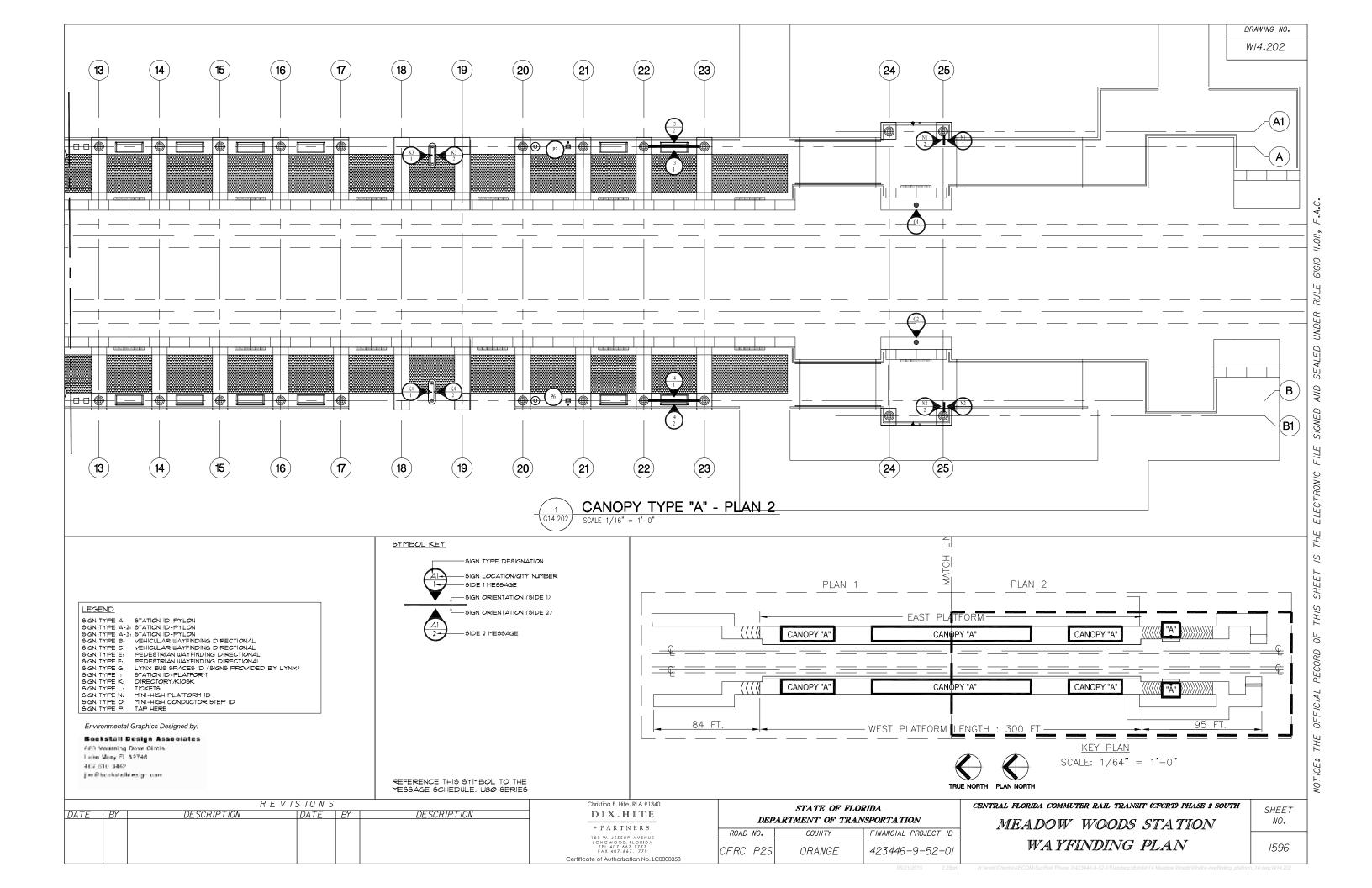












# Sign Type A

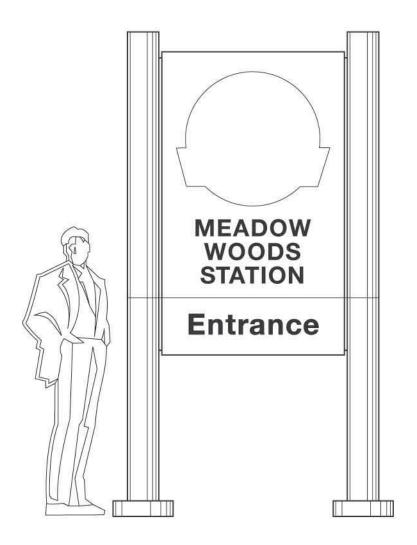


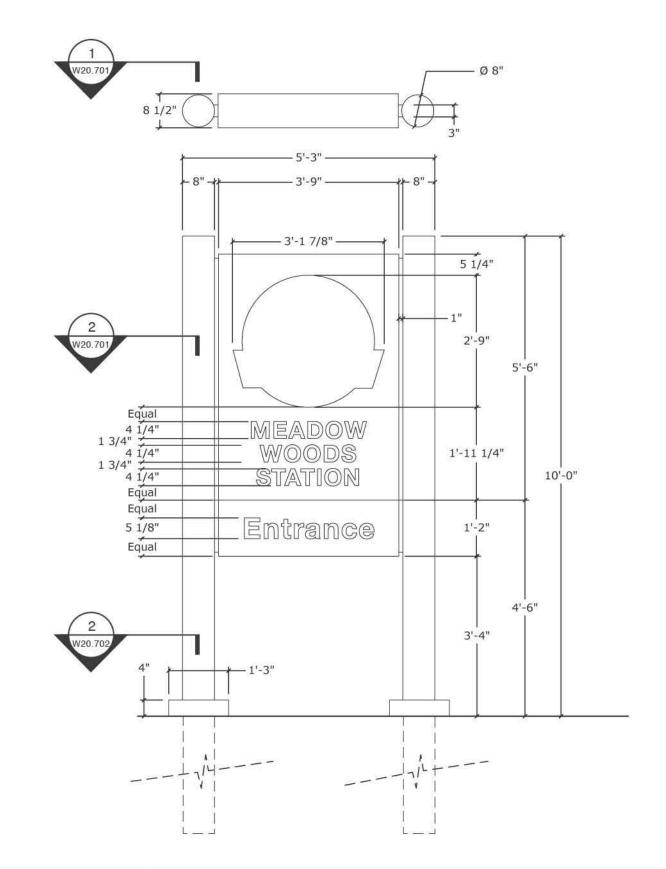


# Meadow Woods Station ID - Pylon

Fabricated aluminum cabinet & posts. Double-faced. Internal Illumination.

Scale: 1/2"=1'-0"





Environmental Graphics Designed by:

#### **Bockstall Design Associates**

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		

1	Christina E. Hite, RLA #1340
	+ PARTNERS
	150 W. JESSUP AVENUE
	TEL 407.667.1777 FAX 407.667.1779
Southfloor	ate of Authorization No. LCO

DEPAI	STATE OF FL RTMENT OF TRA	ORIDA ANSPORTATION
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S	ORANGE	423446-9-52-01

Т	CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH
	MEADOW WOODS STATION
į.	GRAPHICS DETAILS

SHEET NO.	
1597	

# Sign Type B

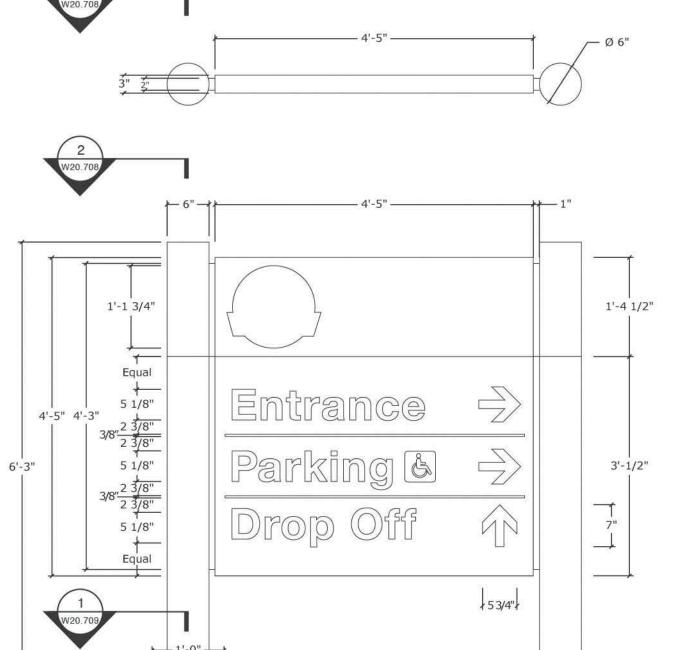


Vehicular Wayfinding Directional

Fabricated aluminum panel & posts. Double-faced. Non-illuminated Reflective vinyl graphics.

Scale: 3/4"=1'-0"





Environmental Graphics Designed by:

#### **Bockstall Design Associates**

680 Mourning Dove Circle Lake Mary FL 32746 jim@bockstalldesign.com

Christina E. Hite, RL	REVISIONS					
DIX.HI	DESCRIPTION	BY	DATE	DESCRIPTION	BY	TE
+ PARTNE						
150 W. JESSUP AV LONGWOOD, FLO TEL 407.667.17 FAX 407.667.13						
Certificate of Authorization		1 1				

Т	Christina E. Hite, RLA #1340
	DIX.HITE
	+ PARTNERS
	150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

DEPAI	STATE OF FL RTMENT OF TRA	ORIDA ANSPORTATION
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S	ORANGE	423446-9-52-01

3 1/2"

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION GRAPHICS DETAILS

SHEET NO.	
1598	

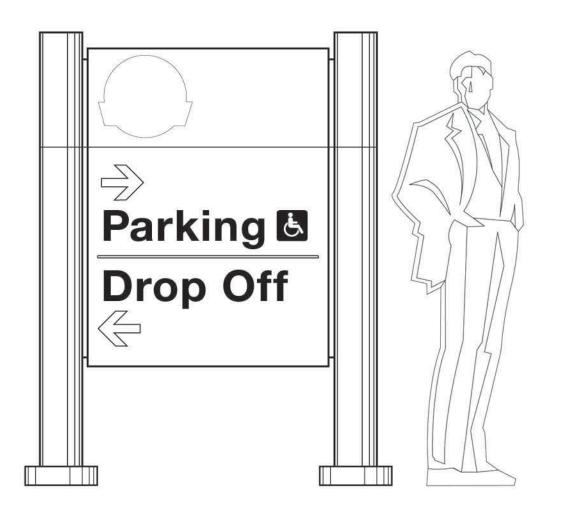
# Sign Type C

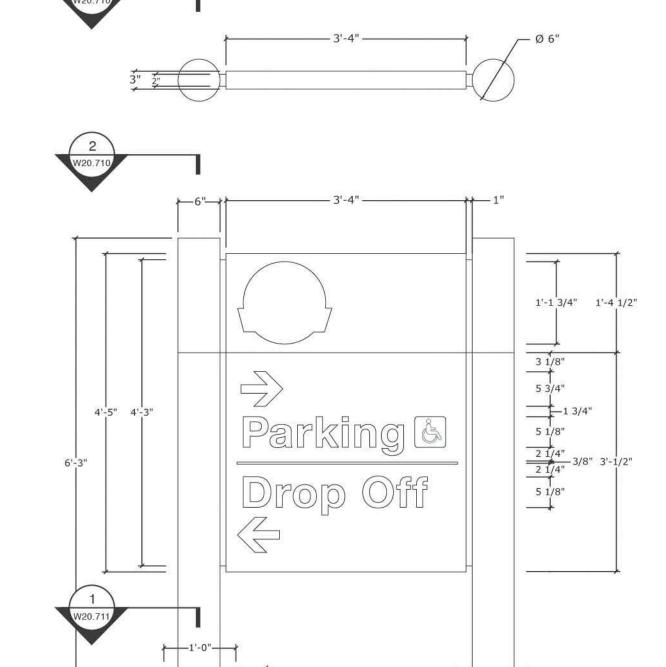


# Vehicular Wayfinding Directional

Fabricated aluminum panel & posts. Double-faced. Non-illuminated Reflective vinyl graphics.

Scale: 3/4"=1'-0"





Environmental Graphics Designed by:

#### **Bockstall Design Associates**

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

REVISIONS			Christina E. Hite, RLA #1340		
E BY	DESCRIPTION	DATE	BY	DESCRIPTION	DIX.HITE
					+ PARTNERS
					150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407-667-1777 FAX 407-667-1779
					Certificate of Authorization No. LC00

Christina E. Hite, RLA #1340  DIX. HITE
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

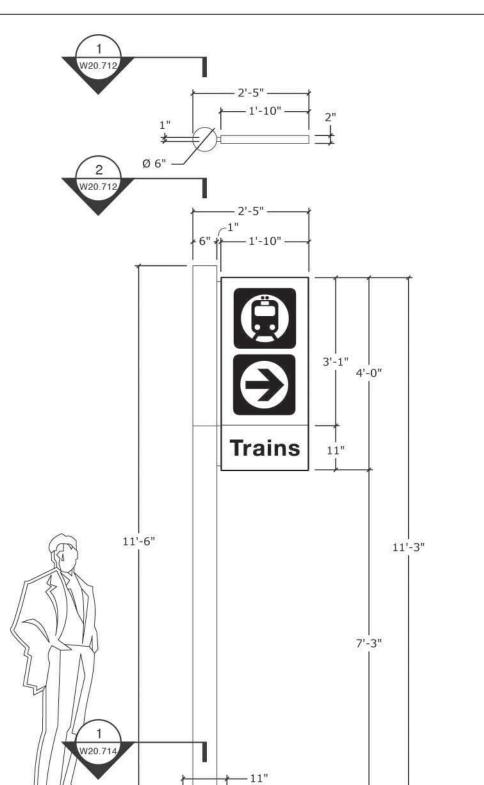
DEPAR	STATE OF FL RTMENT OF TRA	ORIDA ANSPORTATION
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S	ORANGE	423446-9-52-01

3 1/2"

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH
MEADOW WOODS STATION
GRAPHICS DETAILS

	NO.	
SHEET	NO.	

W14.703

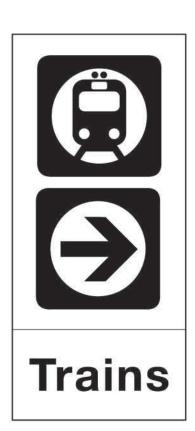


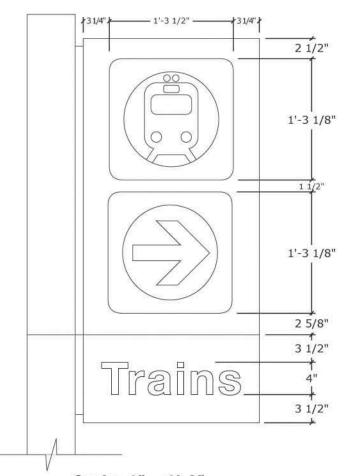
Sign Type E



# **Pedestrian Wayfinding Directional**

Fabricated aluminum panel & post. Double-faced. Non-illuminated Reflective vinyl graphics.





Scale: 1" = 1'-0"

Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

Sca	le:	1/	2"	=	1'	-0"

Street Side --->

		R E	VISIONS			Christina E. Hite, RLA #1340
TE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DIX.HITE
						+ PARTNERS
						150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
						Certificate of Authorization No. LC0

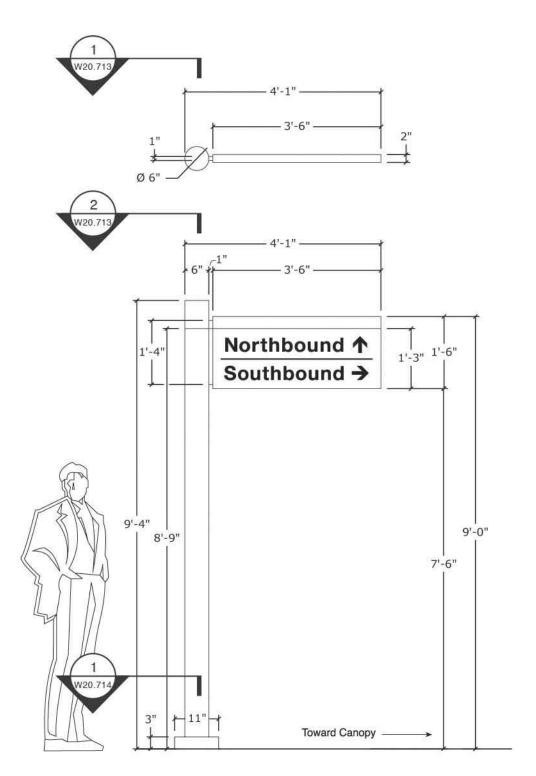
	Christina E. Hite, RLA #1340  DIX, HITE
	+ PARTNERS
	150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407, 667, 1777 FAX 407, 667, 1779
CAND	anta of Authorization No LCCCCC

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
CFRC P2S	ORANGE	423446-9-52-01		

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH
MEADOW WOODS STATION
GRAPHICS DETAILS

SHEET NO. 1600

W14.704



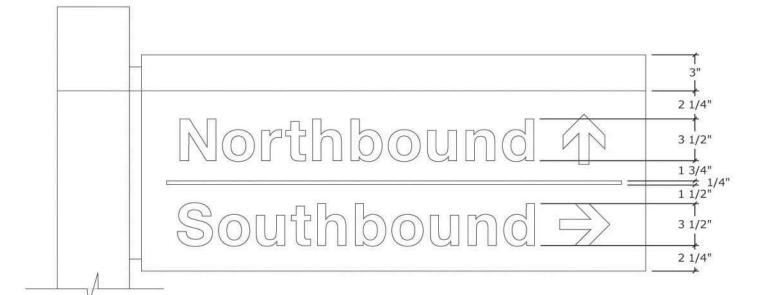
Sign Type F





### **Pedestrian Wayfinding Directional**

Fabricated aluminum panel & post. Double-faced. Non-illuminated Reflective vinyl graphics.



Scale: 1/2"=1'-0"

Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

	REVISIONS						
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DIX.HI7	
						+ PARTNEI	
						150 W. JESSUP AV LONGWOOD, FLOR TEL 407.667.17: FAX 407.667.17	
						Certificate of Authorization	

	Christina E. Hite, RLA #1340	
	DIX.HITE	
	+ PARTNERS	
	150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407, 667, 1777 FAX 407, 667, 1779	
Septim.	agte of Authorization No. 100000	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
CFRC P2S	ORANGE	423446-9-52-01					

Scale: 1 1/2" = 1'-0"

CENTRAL FLORIDA COMMUT	ER RAIL TRANSIT (CFCRT) PHASE	2 SOUTH
MEADOW	WOODS STATION	V
GRAP	HICS DETAILS	

, d	NO.
	1601

W14.705

1 W14.705

# Meadow Woods Station

NORTHBOUND TO SAND LAKE STATION

East Platform sign

# Meadow Woods Station

SOUTHBOUND TO TUPPERWARE STATION

West Platform sign

Sign Type I

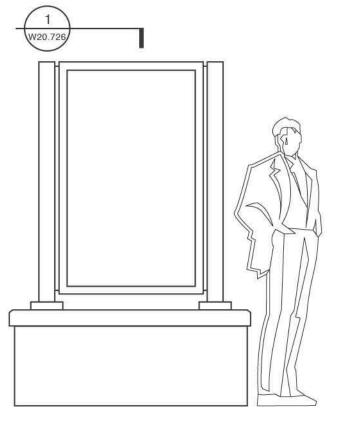


1 Me

**Meadow Woods Station ID - Platform** 

Fabricated aluminum panel with reflective vinyl. Double-faced. Non-illuminated.

Scale: 1/2"=1'-0"



Sign Type K

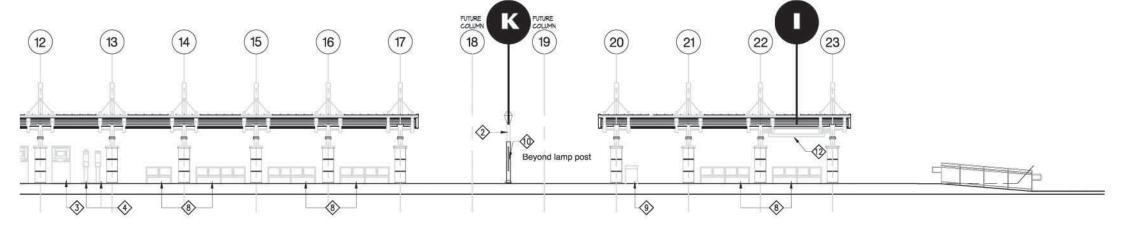




Meadow Woods Station Directory/Kiosk

Freestanding aluminum extrusion frame system. Double-faced. Internal illumination.

Scale: 1/2"=1'-0"



Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com PARTIAL ELEVATION - FOR REFERENCE ONLY

SCALE 1/16" = 1'-

	AND CARROLL IN									≥
REVISIONS				Christina E. Hite, RLA #1340	STATE OF FLORIDA		OPID 4	CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH		
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	DIX.HITE	DEPA	RTMENT OF TRA		MEADAIL IIVAADO CELAMIAN	SHEET	
				+ PARTNERS	0040 40	COUNTY	FINANCIAL PROJECT ID	MEADOW WOODS STATION	700.	
				150 W. JESSUP AVENUE	HUALI NU.	COUNTY	FINANCIAL PROJECT ID			
				150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407, 667, 1777 FAX 407, 667, 1779	CFRC P2S	ORANGE	423446-9-52-01	GRAPHICS DETAILS	1602	
				Certificate of Authorization No. LC0000358	DSD 0032882 524 P0000		ADVISED NOTICE OF SACH SERVER OF SACH			

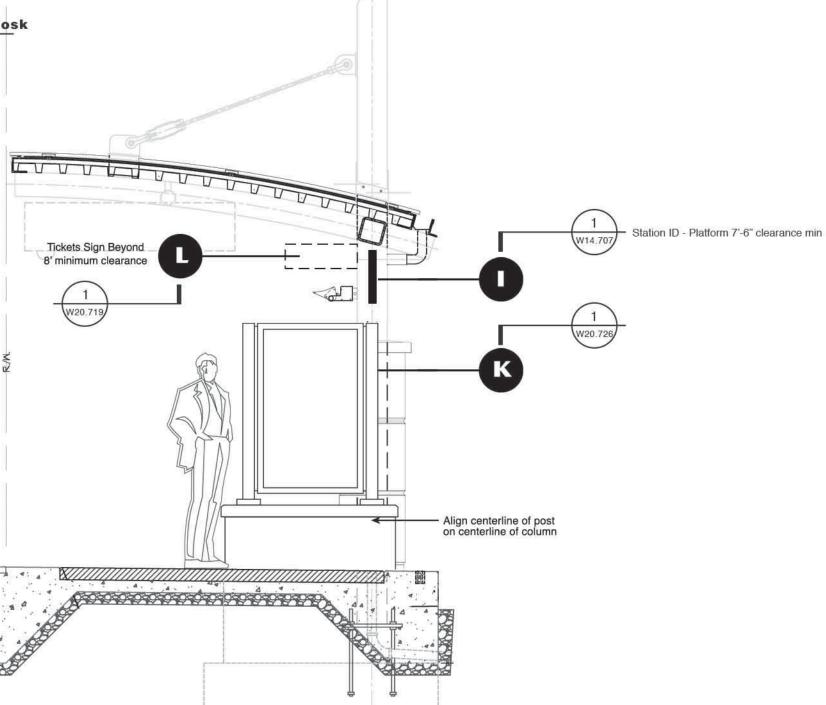






Meadow Woods Station Directory/Kiosk

Freestanding aluminum extrusion frame system. Double-faced. Internal illumination.



Environmental Graphics Designed by:

**Bockstall Design Associates** 

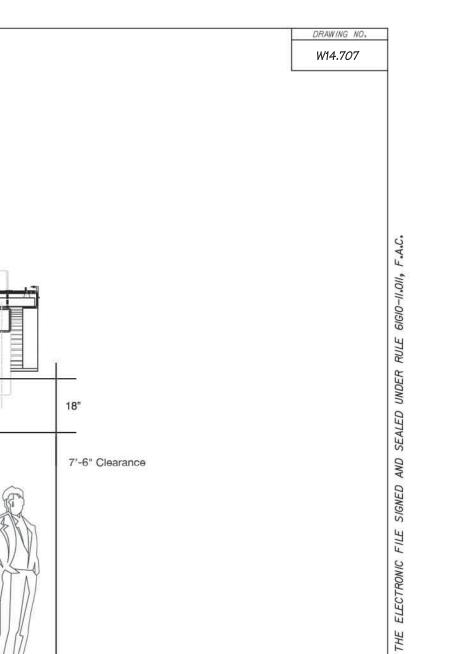
680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

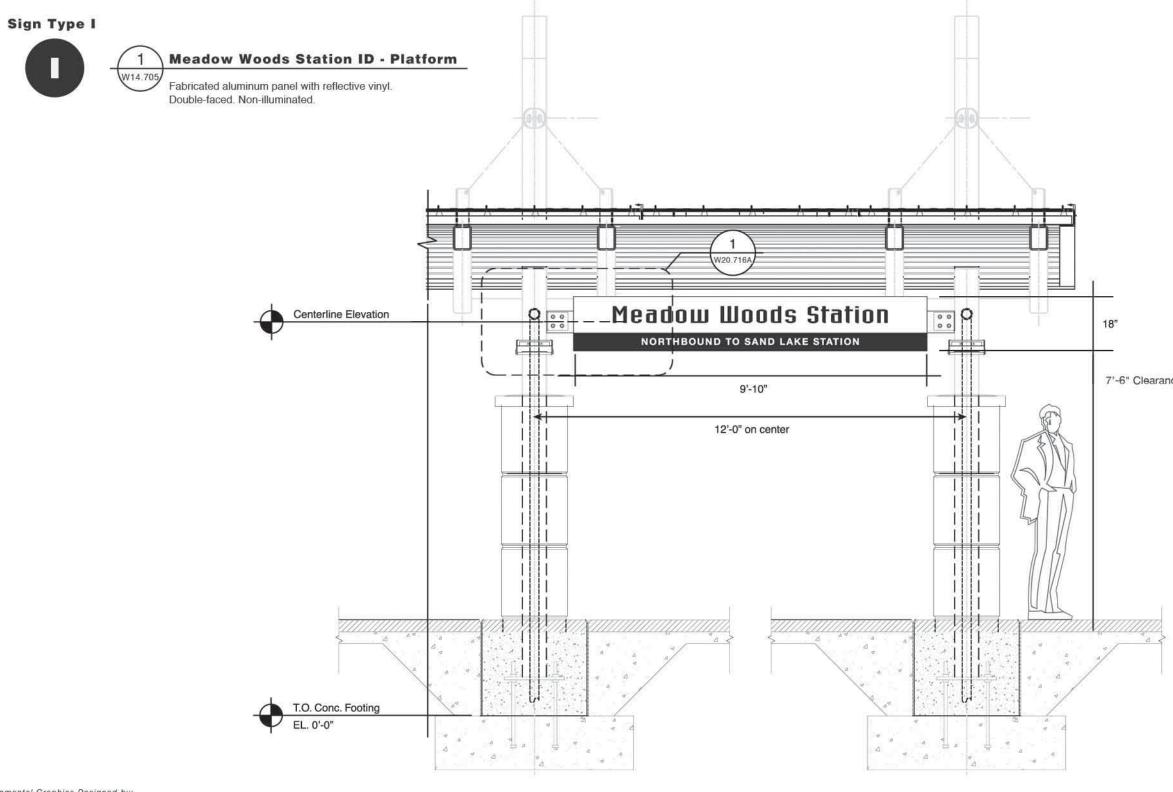
**SECTION - FOR REFERENCE ONLY** 

		R	EVISIONS	3		Christina E. Hite, RLA #1340	STATE OF FLORIDA			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DIX.HITE	DEPARTMENT OF TRANSPORTATION			
					+ PARTNERS					
						ISO W. JESSUP AVENUE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						150 W. JESSUP, AVENUE LONG WOOD, FLORIDA. TEL 407.467.1777 FAX 407.467.1777 Certificate of Authorization No. LC0000358	CFRC P2S	ORANGE	423446-9-52-01	

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION GRAPHICS DETAILS

SHEET NO.





Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com SECTION - FOR REFERENCE ONLY

SCALE 3/8" = 1'-0"

	REVISIONS				Christina E. Hite, RLA #1340	STATE OF FLORIDA			CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH	SHEET
DATE	BY	DESCRIPTION	DATE B	Y DESCRIPTION	DIX.HITE	DEPARTMENT OF TRANSPORTATION			MEADOW WOODS STATION	NO.
					POAD NO COUNTY FINANCIAL PROJECT ID	TO THE PROPERTY OF THE PROPERT				
		150 W. JESSUP. AVENUE LONGWOOD. ELOPIDA TEL 407.667.1777 FAX 407.667.1779  Certificate of Authorization No. LC0000358	CFRC P2S	ORANGE	423446-9-52-01	GRAPHICS DETAILS	1604			

W14.708

### Sign Type N

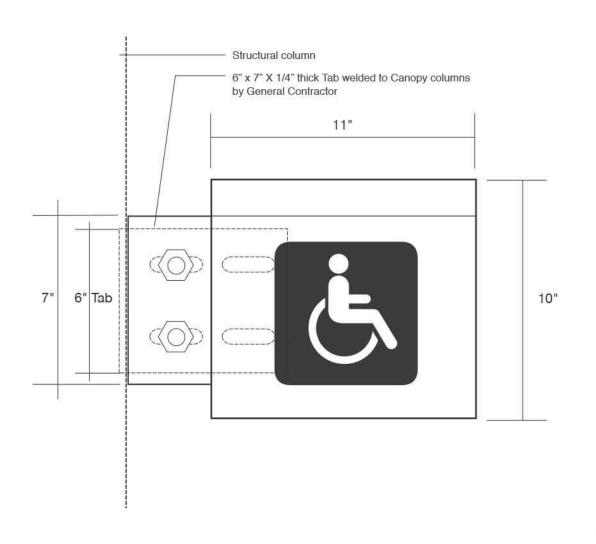


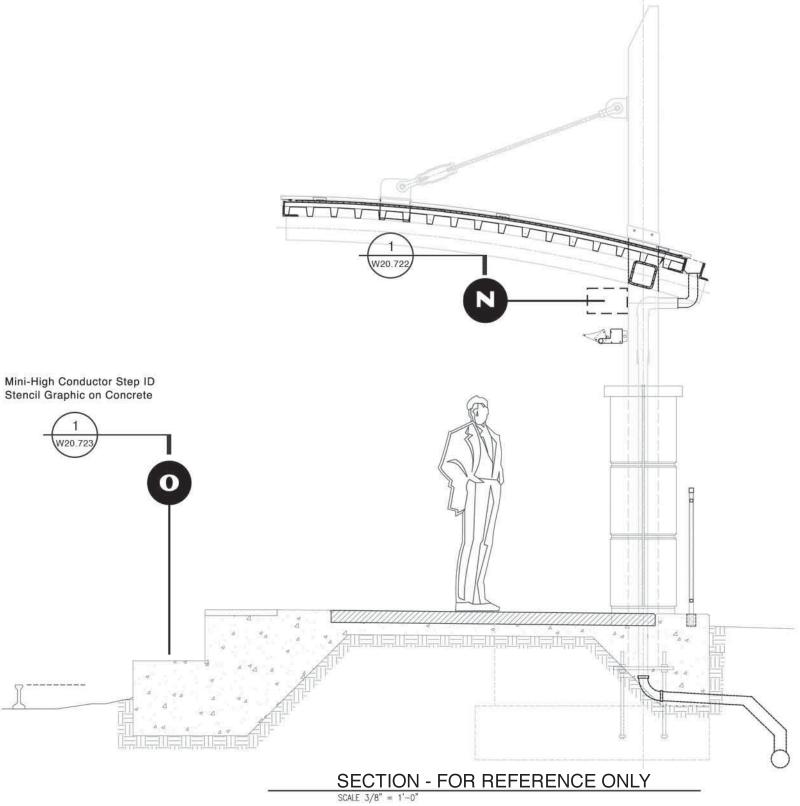


### Mini-High Platform ID

Flag-mounted aluminum panel with reflective vinyl. Double-faced. Non-illuminated.

Scale: 1/4"=1"





Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

	REVISIONS							
- 1	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE		

	Christina E. Hite, RLA #1340
	DIX.HITE
	+ PARTNERS
	150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407, 667, 1777 FAX 407, 667, 1779
Section.	nate of Authorization No. LCCC

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION								
ROAD NO.	COUNTY	FINANCIAL PROJECT ID						
FRC P2S	ORANGE	423446-9-52-01						

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

MEADOW WOODS STATION

GRAPHICS DETAILS

SHEET NO.

MIN ALMOSTRES THE OFFICE OF THE SUPERIOR SHOWN

### W20.805A

#### Message Sign Type Message Sign Type Sign Type Message MEADOW WOODS STATION W14.007D C3-1 Drop Off [up arrow] W14.007C A1-1 W14.007C E2-1 Trains [train symbol] [right arrow] Entrance W14.007D C3-2 W14.007C A1-2 MEADOW WOODS STATION W14.007C E2-2 Trains [train symbol] [left arrow] No message Entrance W14.007D C4-1 MEADOW WOODS STATION W14.007D A2-1 Parking [with Handicap Symbol] [right arrow] W14.007E E3-1 Trains [train symbol] [left arrow] Entrance W14.007D C4-2 W14.007D A2-2 MEADOW WOODS STATION Parking [with Handicap Symbol] [left arrow] W14.007E E3-2 Trains [train symbol] [right arrow] Entrance W14.007D C5-1 MEADOW WOODS STATION W14.007F A3-1 Parking [with Handicap Symbol] [right arrow] W14.007E E4-1 Trains [train symbol] [left arrow] Entrance Drop Off [right arrow] MEADOW WOODS STATION W14.007D C5-2 W14.007F A3-2 W14.007E E4-2 Exit [left arrow] Trains [train symbol] [right arrow] Entrance Exit [up arrow] W14.007E C6-1 W14.007C B1-1 Parking [with Handicap Symbol] [up arrow] W14.007E F1-1 Northbound [left arrow] Southbound [right arrow] Drop Off [right arrow] Entrance [up arrow] W14.007E C6-2 W14.007C B1-2 Exit [up arrow] W14.007E F1-2 Northbound [right arrow] Parking [up arrow] Exit [up arrow] Drop Off [up arrow] W14.007E C7-1 Entrance [left arrow] W14.007E B2-1 W14.007E F2-1 Parking [with Handicap Symbol] [up arrow] Southbound [left arrow] Parking [with Handicap Symbol] [left arrow] Trains [left arrow] Exit [up arrow] Drop Off [left arrow] Entrance [right arrow] W14.007E C7-2 W14.007E B2-2 Drop Off [right arrow] W14.007E F2-2 Northbound [left arrow] Parking [with Handicap Symbol] [right arrow] Southbound [right arrow] Exit [up arrow] Drop Off [right arrow] Parking [with Handicap Symbol] [right arrow] W14.007F C8-1 W14.007C C1-1 Parking [with Handicap Symbol] [left arrow] W14.007E F3-1 Northbound [right arrow] Exit [up arrow] Drop Off [left arrow] Southbound [up arrow] W14.007F C8-2 W14.007C C1-2 Drop Off [up arrow] Trains [right arrow] W14.007E F3-2 Northbound [left arrow] Parking [with Handicap Symbol] [left arrow] Exit [left arrow] Drop Off [right arrow] W14.007C E1-1 W14.007D C2-1 Trains [train symbol] [right arrow] W14.007E F4-1 Southbound [right arrow] Parking [with Handicap Symbol] [up arrow] Drop Off [left arrow] W14.007C E1-2 W14.007D C2-2 W14.007E F4-2 Trains [train symbol] [left arrow] Northbound [up arrow] Exit [up arrow] Southbound [left arrow] Environmental Graphics Designed by:

**Bockstall Design Associates** 

680 Mourning Dove Circle Lake Mary FL 32746 407.810.3442 jim@bockstalldesign.com

	Christina E. Hite, RLA #1340				
ATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	DIX.HITE
					+ PARTNERS
					150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407-667-1777 FAX 407-667-1779
					Certificate of Authorization No. LC00

Message Schedule [case-sensitive]

+ PARTNERS
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA

DEPAR	STATE OF FL RTMENT OF TRA	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S	ORANGE	423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION MESSAGE SCHEDULE

SHEET NO.

W20.805B

## Message Schedule [case-sensitive]

	Sign Type	Message	Sign Type	Message
12	W14.007E F5-1	Northbound [left arrow] Southbound [up arrow]	W14.202 O1 & O2	NO STANDING
	W14.007E F5-2	No messsage	W14.201-202 P1-P6	TAP HERE
	W14.007E F6-1	Northbound [right arrow] Southbound [up arrow]	W14.201-202 Q1-Q8	MEADOW WOODS STATION + Braille [attached to Sign Type P Directory/Kiosk]
	W14.007E F6-2	No messsage		
	W14.007E F7-1	Northbound [right arrow] Southbound [left arrow]		
	W14.007E F7-2	No messsage		
	W14.201 I1-1 & W14.201 I1-2	Meadow Woods Station NORTHBOUND TO SAND LAKE STATION		
	W14.201  2-1 & W14.201  2-2	Meadow Woods Station SOUTHBOUND TO TUPPERWARE STATION		
	W14.202  3-1 & W14.202  3-2	Meadow Woods Station NORTHBOUND TO SAND LAKE STATION		
	W14.202   14-1 & W14.202   14-2	Meadow Woods Station SOUTHBOUND TO TUPPERWARE STATION		
	W14.201 K1 & K2	Content not a part of this scope		
	W14.202 K3 & K4	Content not a part of this scope		
	W14.201 L1 & L2	Tickets [with tickets symbol]		
ē	W14.202 N1 & N2	[Handicap Symbol]		
Environmental Grap	TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER			
Bockstall Design	Associates	·		1

680 Mourning Dove Circle Lake Mary FL 32746 jim@bockstalldesign.com

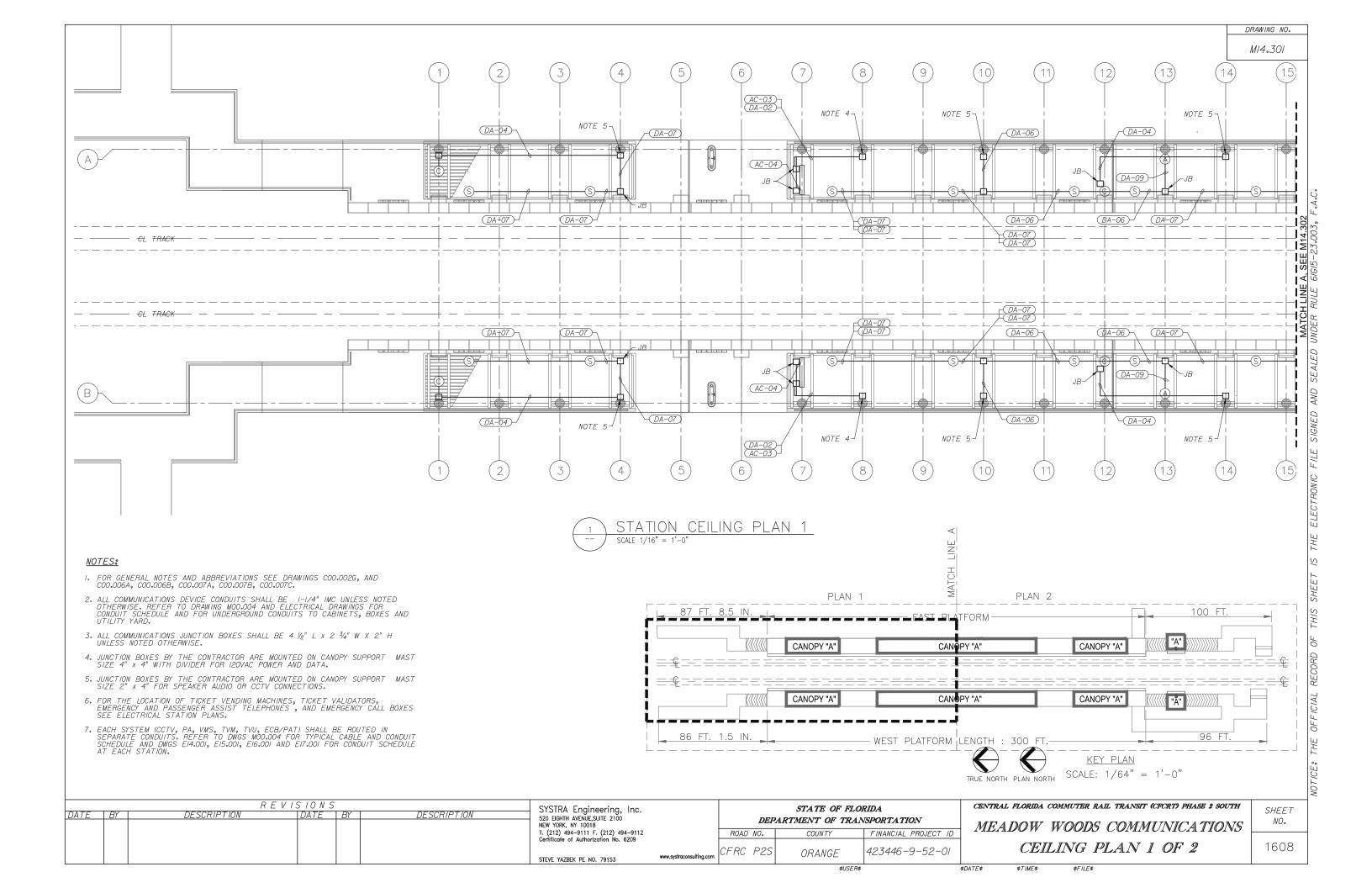
Christina E. Hite,		Ö	VISIONS	R E		
DIX.H	DESCRIPTION	BY	DATE	DESCRIPTION	BY	ATE
+ PARTN						
150 W. JESSUP LONGWOOD, F TEL 407.667 FAX 407.667						
Certificate of Authorizat		1 1			1 1	

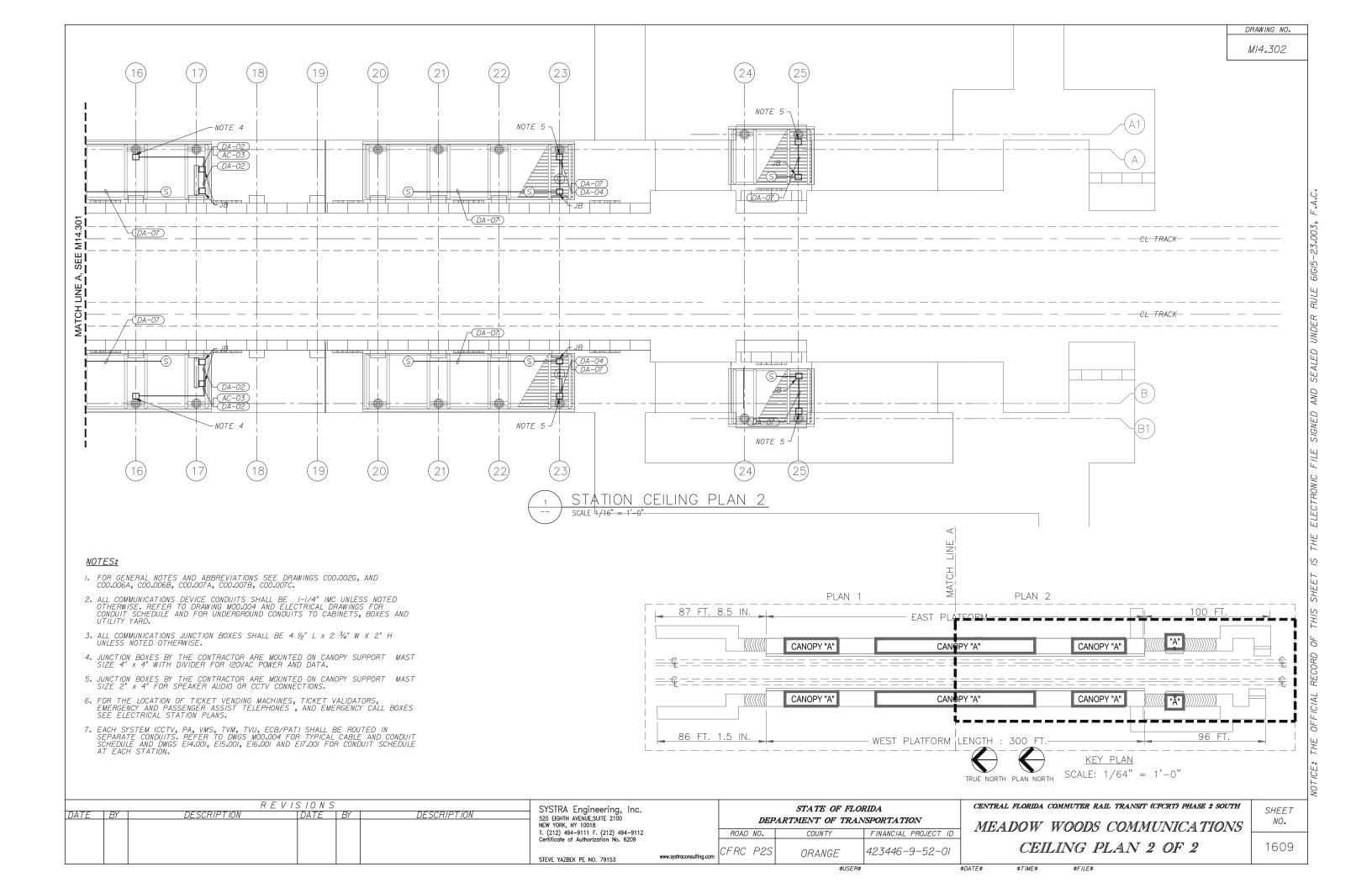
Chri	stina E. Hite, RLA	#1340
D	IX.HIT	E
+	PARTNER	S
LC	W. JESSUP AVE NGWOOD, FLORI TEL 407.667.177 FAX 407.667.177	DA:

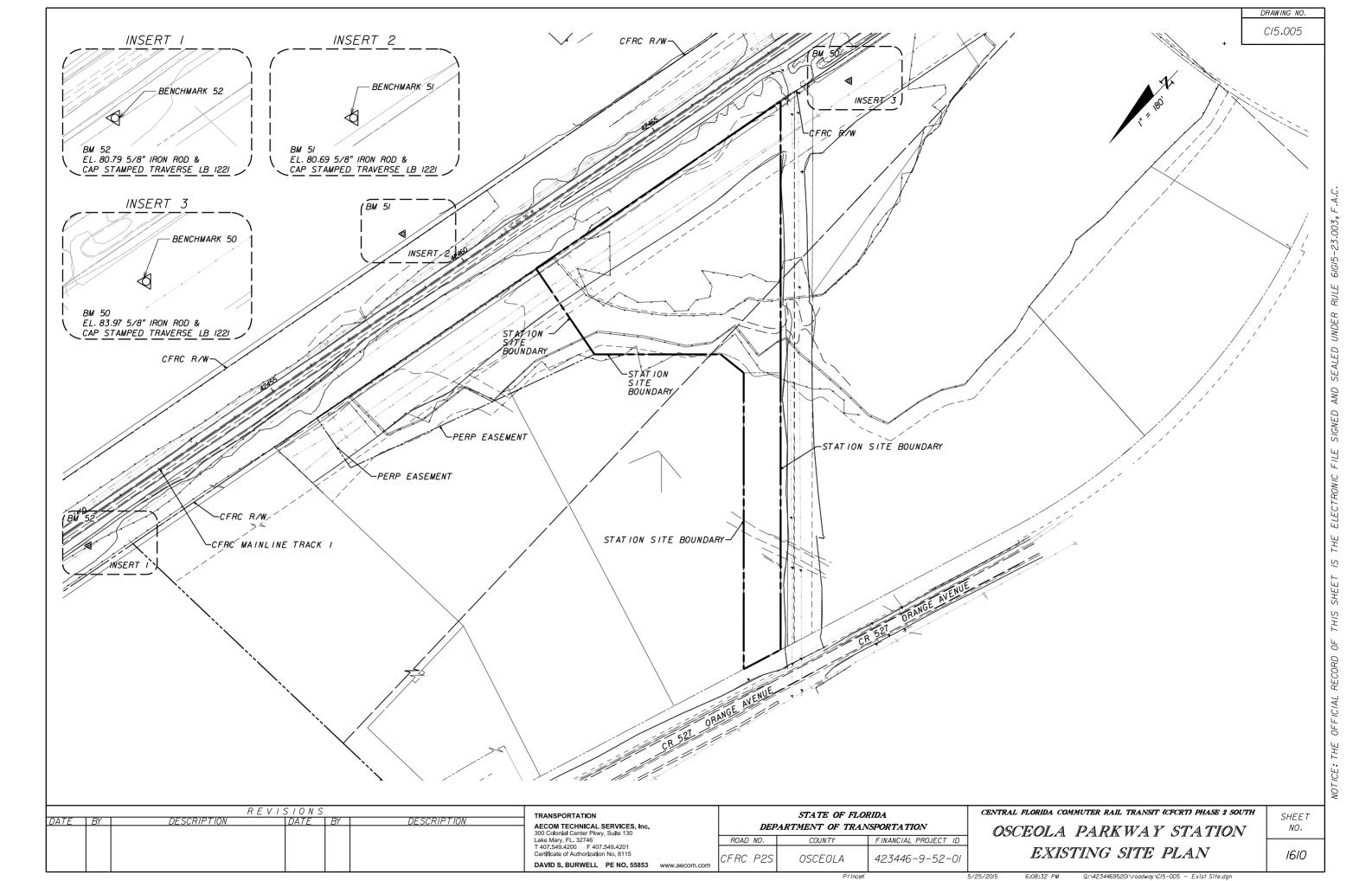
DEPAR	STATE OF FL TMENT OF TRA	ORIDA ANSPORTATION
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
FRC P2S	ORANGE	423446-9-52-01

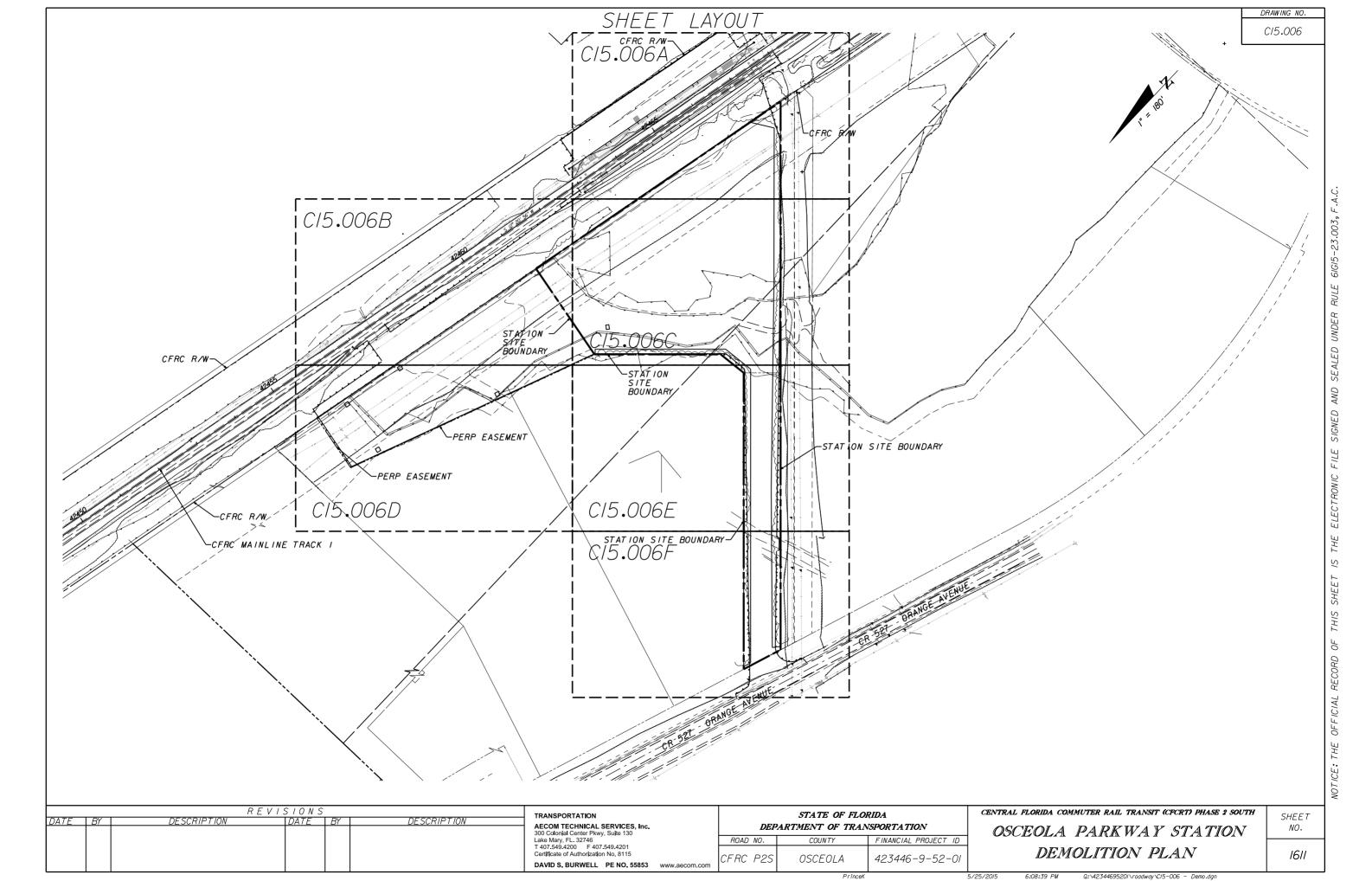
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH MEADOW WOODS STATION MESSAGE SCHEDULE

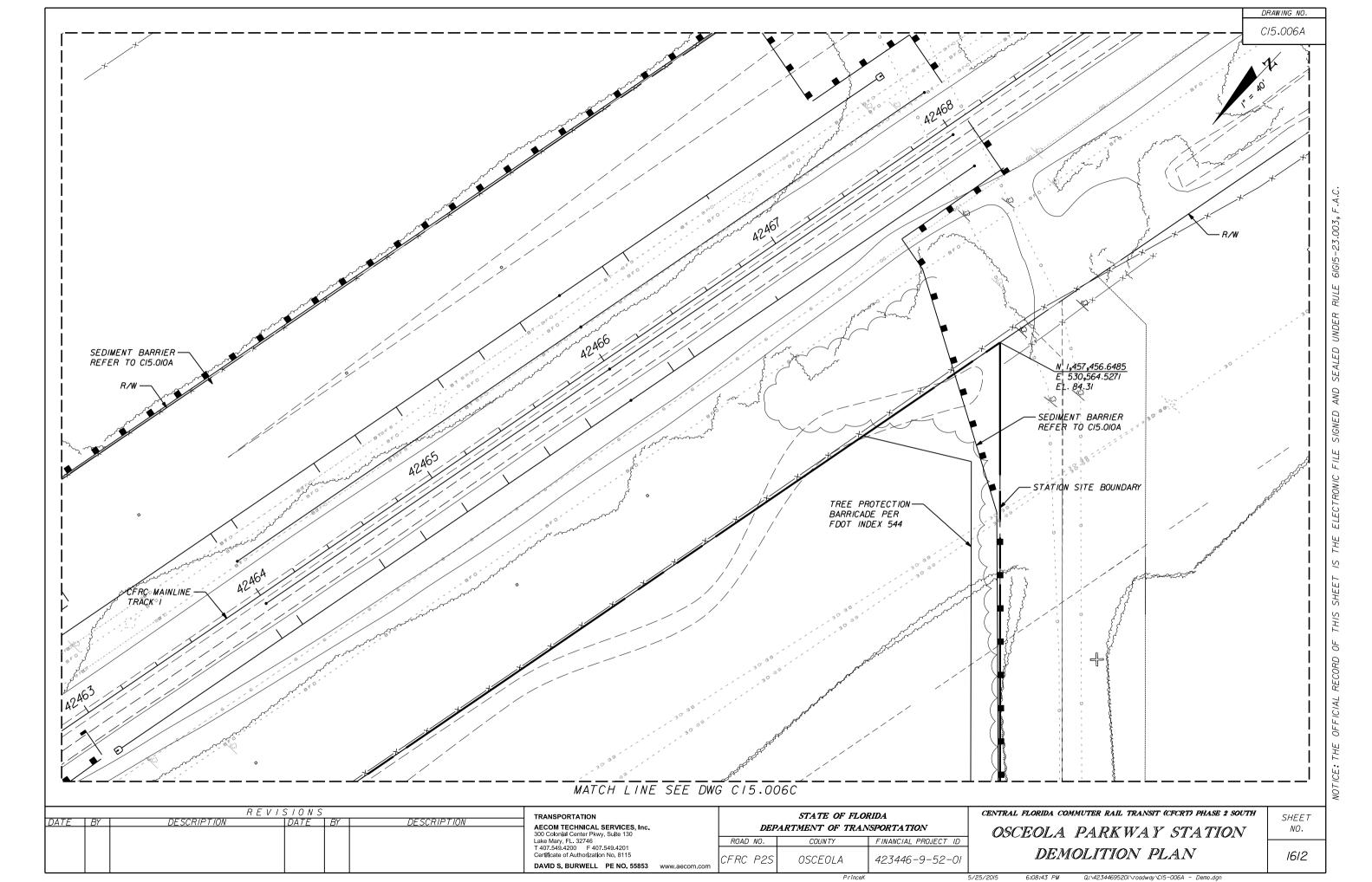
SHEET NO.

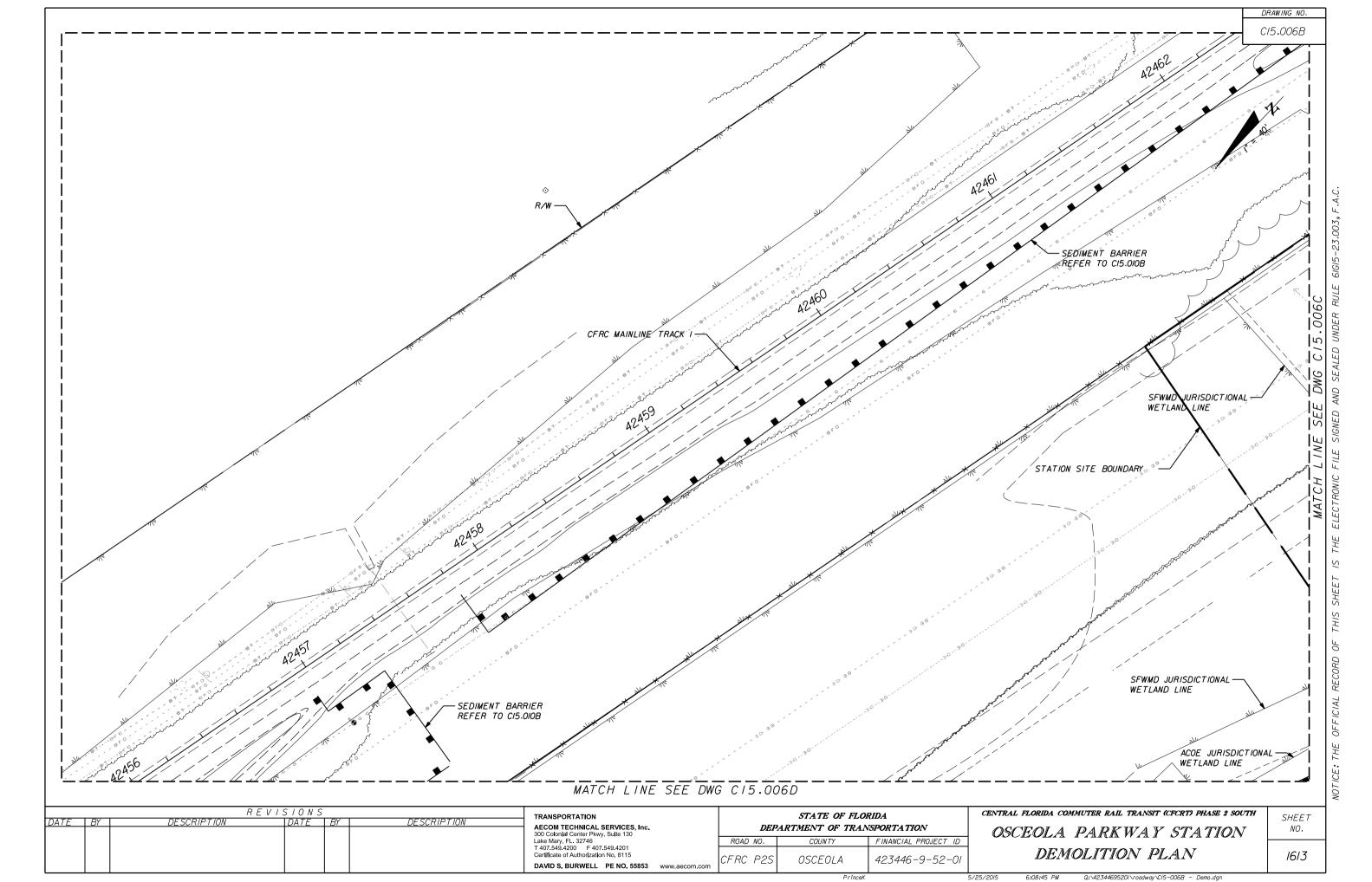


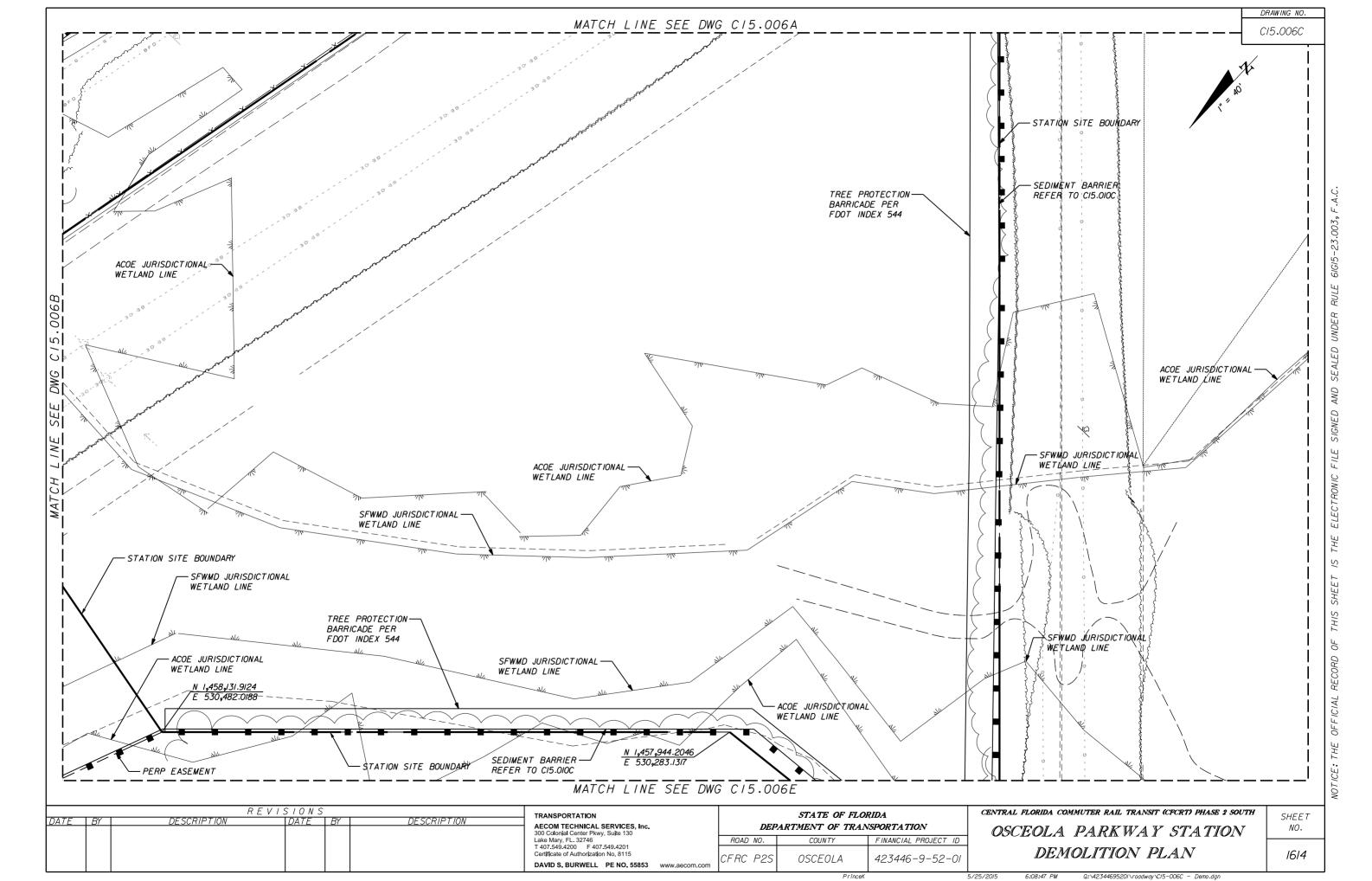


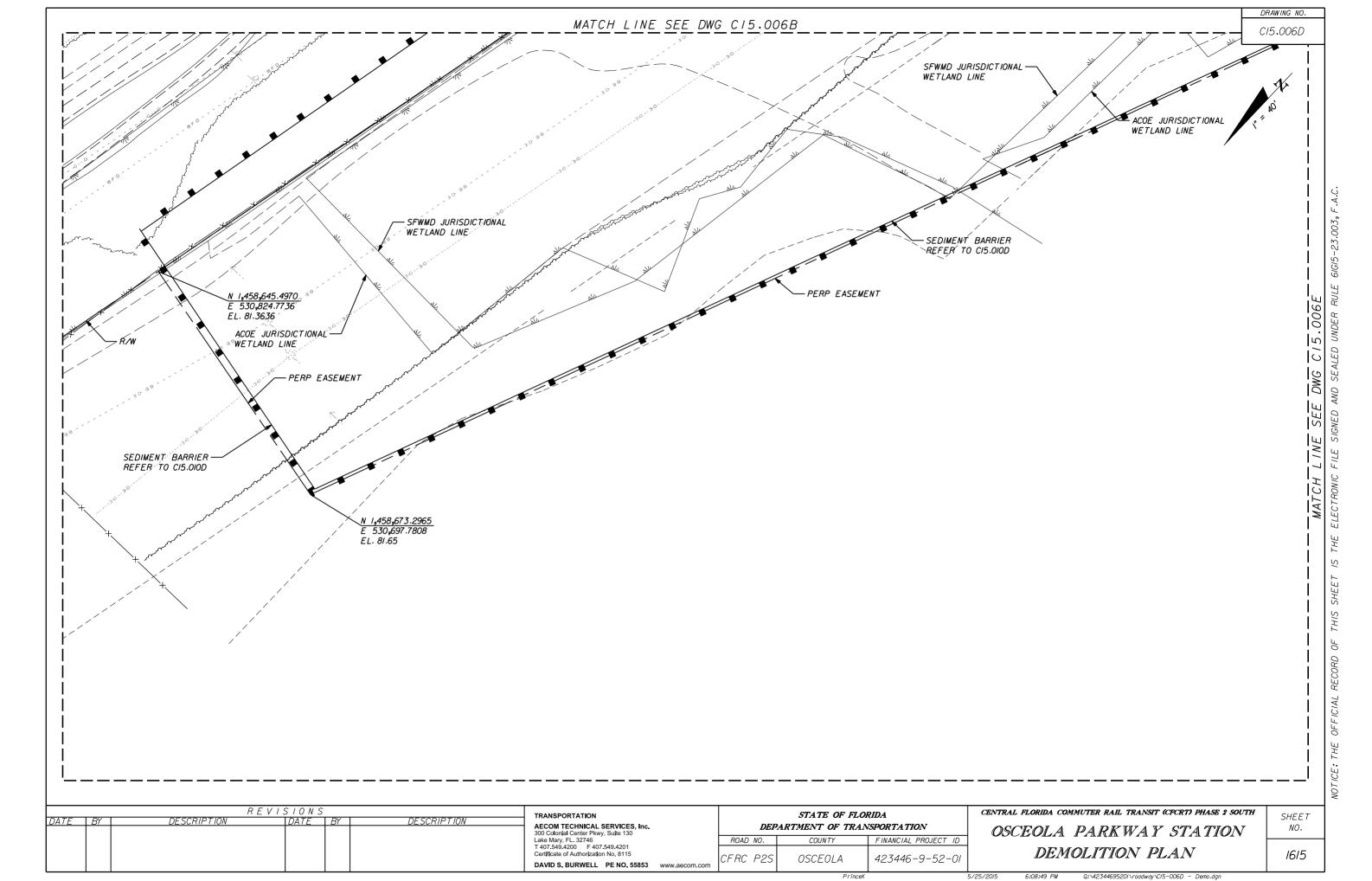


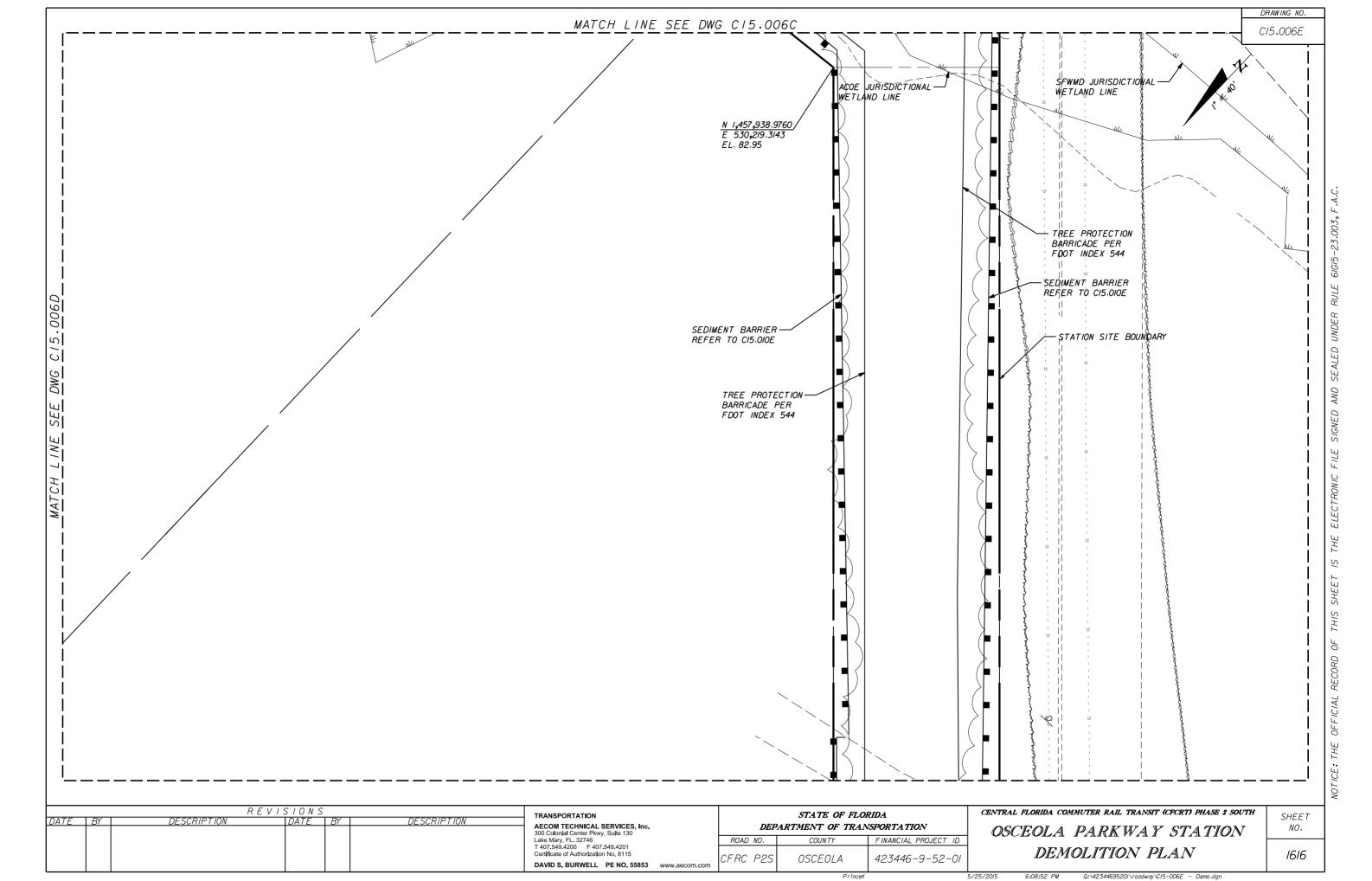


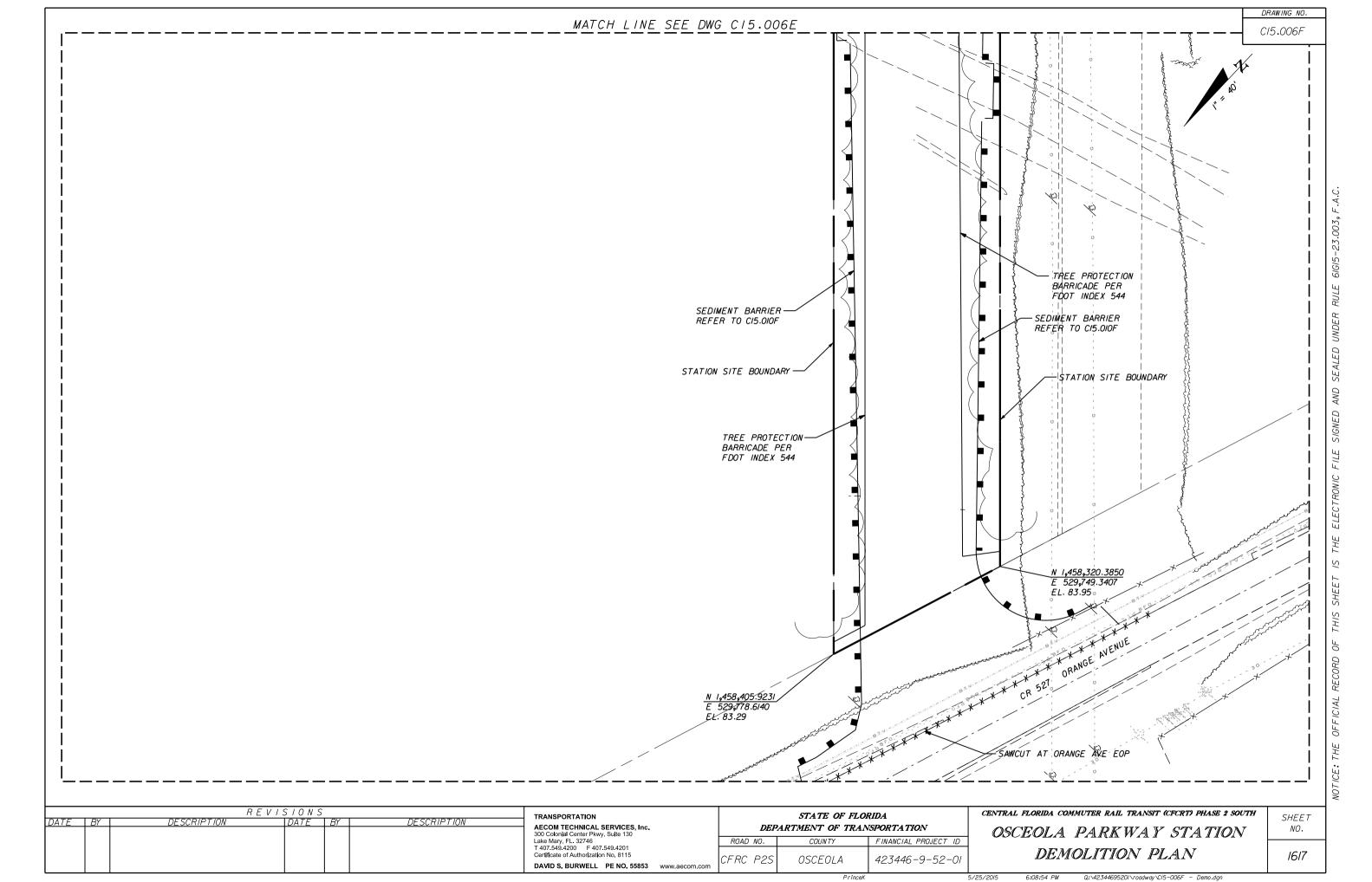


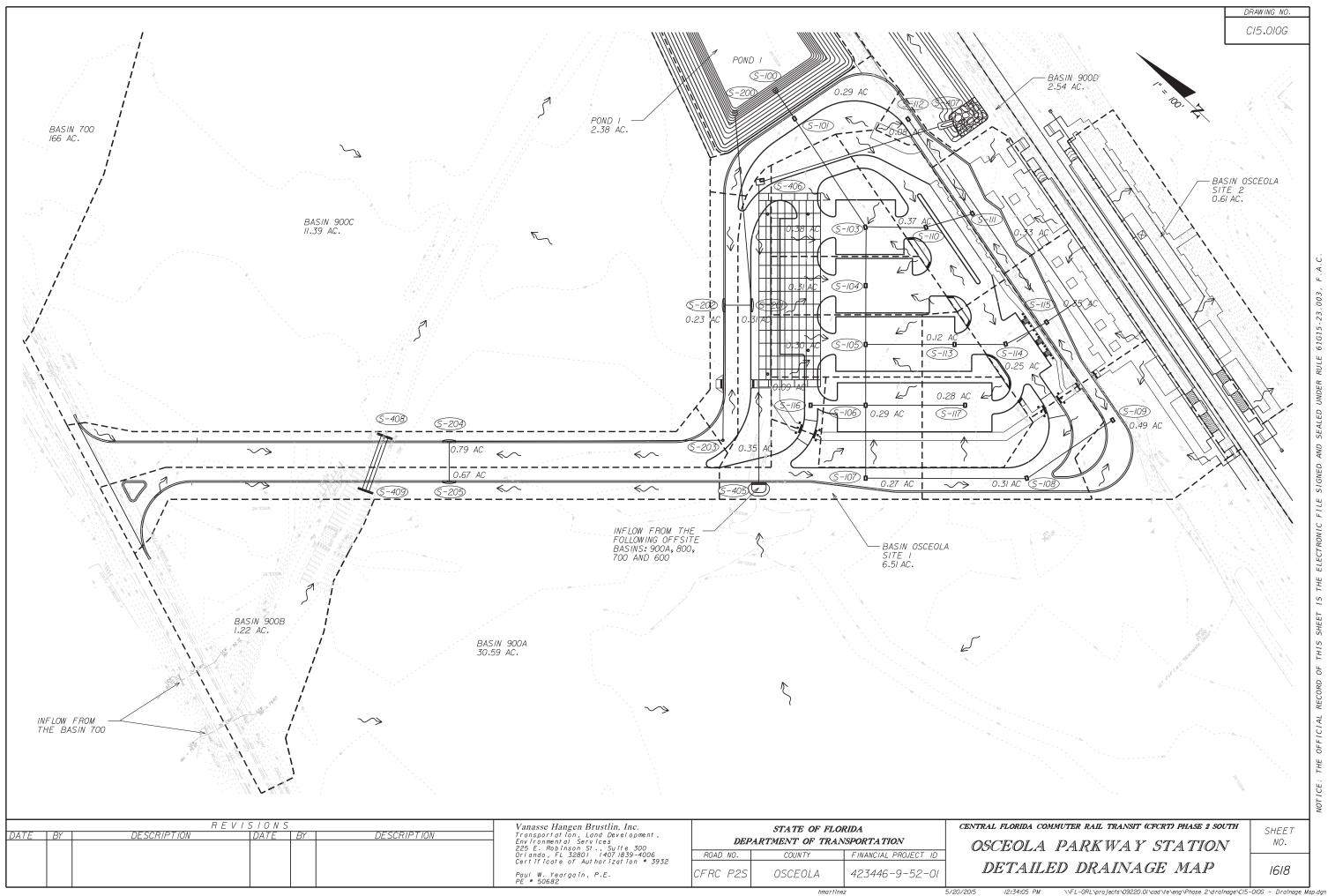


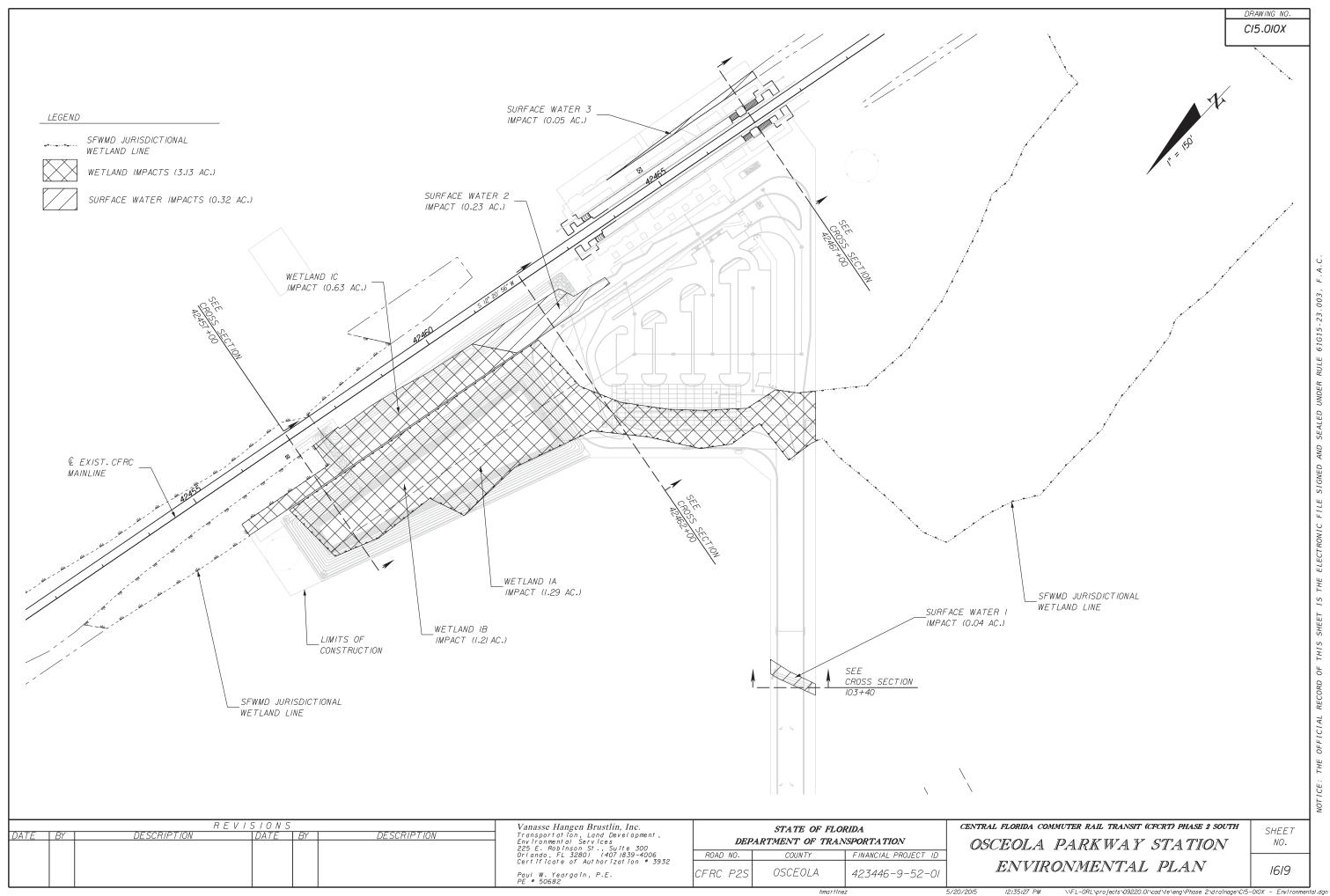












STR. NO.	NORTHING	FACTING	DESCRIPTION	RELS	PI	PE		М	ANHOL	ES	12" YARD	DITCH INL	BOTTOM FTS	CURB INLETS	CLEANOUT	Т	CROSS D MES	RAIN	HE	ADWALL		FES	CLASS CONC.	RIPRAP	DRAWING NO.
NO.	NORTHING	EASTING	DESCRIPTION	I ~ I	OPTION   18"   24"   30"	AL PIPE	'8"   IQ" Y 3	P-8	J-BOT	TOP	DRAIN	F	F J-B0T	P-6 <10'	8" TO 19.9"	24" 30"		29" X 45" 48"	19" X 30"	24" X 38	" 48"	8" 12	+	TN	REMARKS
P S-100	1458129.6595	530592.5018	MES	1	10 24 30	30 4	0 13 X 3	0 24 X 30 VIO	170			(10	0 007	(10		1									
P S-101	1458091.1195	530583.9936	Inlet, Pipe	1	33							1									#				
P S-103	1457942.0746	530548.2588	Inlet, Pîpe	1	148							1									#				
P S-104	1457894.5848	530498.3039	Inlet, Pipe	1	64							1									<u></u>	廿			
P S-105	1457846.8932	530447.7720	Inlet, Pipe	1	64							1									$\perp$				
P S-106	1457797.5734	530395.5/48	Inlet, Pîpe	1	67							1									$\perp$				
P S-107	1457738.4650	530332.8861	Inlet, Pîpe	1	81							1									士				
F S-108	1457600.1400	530463.4358	Inlet, Pipe	1	186							1									$\pm$	$\perp \perp$			
F S-109	1457573.2947	530583.0/50	Inlet, Pipe	1	118							1									$\perp$				
F S-110	1457890.1647	530597.3454	Inlet, Pipe	1	68							1									$\perp$				
F S-III	1457861.4048	530646.8305	Inlet, Pîpe	1	54							1									$\perp$				
F   S-112	1457993.2022	530675.6939	Inlet, Pipe	1	/30						$oxed{\bot}$	1									$\pm \overline{}$				
F S-113	I457770.5559	5305/9.8/85	Inlet, Pîpe	1	101							1									-				
F S-114	1457726.9886	530561.6018	Inlet, Pîpe	1	56						$\vdash$	1									<del>-</del>				
F S-115	1457709.5396	5306/3.572/	Inlet, Pîpe	1	51						$\blacksquare$	1									$\vdash$				
F S-116	1457844.9204	530350.8292	Inlet, Pîpe		61							1									_				
F S-117	1457712.1646	530476.1228	Inlet, Pîpe		114							1									=				
F S-200	1458143.7859	530537.8983	MES	,												1					1				SINGLE MES
F S-201	1457977.6214	530388.1688		,	224									1							#				SINGLE MES
F S-202			Inlet, Pipe	,																	#	世			
F	1457999.4389	530367.5776	Inlet, Pipe	1	32									1							#				
P S-203		530249.6375	Manhole, Pipe	1	158			1													士				
F	1458125.1998	530025.6825	Inlet, Pîpe	1	322									1							<u></u>	$\perp \perp$			
P S-205	1458094.3130	529992.9562	Inlet, Pipe	1	47									1							$\perp$				
P S-310 F	1458448.7217	530737.9961	Inlet, Pîpe	<i>I</i>		24						1									$\pm$		3.8		
P S-311 F	1458439.2200	530786.3753	MES	2													1				-			80.5	DOUBLE MES
P S-312 F	1458425.9327	530854.2031	MES	1														1			1				DOUBLE MES
P S-400	1458341.9269	530568.7675	Headwall, Pipe	2				4			$\blacksquare$									3.55	$\vdash$				DOUBLE HEADWALL
P S-401	1458339.0885	530575.8894	Manhole, Pipe	2				552	1		#										<del></del>				
P S-402	1458604.1184	530.681.5138	Manhole, Pipe	2				220	1												#	#			
P S-403	1458578.6969	530797.6047	Manhole, Pipe	2				260	1												#				
P S-404	1458442.8321	530767.8863	Manhole, Pipe	2				30	1												#				
P S-405	1457825.9833	530241.8491	Headwall, Pipe	1		11.	3														8.15				
F S-406	1458069.2205	530504.7979	Inlet, Pipe	1		22	24				$\perp \perp \perp$		1								#				
SHEE	T TOTALS		AN QUANTITY NAL QUANTITY																		_				
		FIN	REVISIONS					Vanasse Hanger	   Brustl	in, Inc	; <u>.                                    </u>			STA	TE OF FLO	ORIDA		CENTRAL	L FLORIDA	A COMMU	TER R	AIL TR	ANSIT (CFC	RT) PHASE	2 SOUTH SHEET
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			Transportation, Environmental S 225 E. Robinson Orlando, FL 328	Land D Services St., S	evelop uite 3	ment, 300			PARTMEN	VT OF TRA	NSPORTA			CEOL					TA TI	ON NO.
								cerriricare or	AUTTIOT	201 1011	4006 # 3932		DAD NO.		COLA		AL PROJECT		<i> </i>				Y OF	אינו מוץ זו	1620
								Paul W. Yeargai PE # 50682	n, P.E.			L'F F	RC P2S	USC	CEOLA hmartir		16-9-52 	-()  	DRA 12:38:46					URES	2\drainage\CI5-0I0Y - SUMDROI.a

ITY				57		0.7.0.4	_				14.4	NUOLE	F.C.	12" L	отсн і	воттом	CURB	CLEANOUT		CROSS DRA	AIN UE	ADW ALL	FES	CLASS I	I RIP	DRAWING NO.
NO.	NORTHING	EASTING	DESCRIPTION	RREI		PIPI						NHOLE		YARD	INL		INLETS			MES	""			CONC.		C15.010Z
NO.				TYPE II UNDE	RDRAIN   12"   15"	18" 24	OPTIC	ONAL PIPE 36" 48"	19" X 30"	24" X 38"	P-8	J-B0T <10'	TOP	DRAIN		F J-B0T	P-6 <10'	8" TO 19.9"	24"	30" 24" X 38"	48"   19" X 30"	24" X 38" 48" CY CY	8" 12	" CY	TN L	REMARKS
P S-407	1457959.3166	530696.3412	MES	1																	1	0. 0.			125.2	
P S-408	1458185.6400	529979.0078	Headwall	3																	3.22					TRIPLE HEADWALL
F   P   S-409	1458158.0114	529916.2359	Headwall, Pipe	3					201												3.22					TRIPLE HEADWALL
F P S-410	1458002.0833	5305/3.0428											1													
F			Manhole Top	,																						
P S-411	1457891.6594	530396.0243	Manhole Top	1									/													
P S-412	1458036.8680	530480.2431	Manhole Top	1									1													
P S-413	1457907.1525	530342.7840	Manhole Top	1									1													
P YD-I	1457801.2017	530808.8730	Inlet, Pipe	1	121									1												
F P YD-2	1457683.0012	530782.9955	Inlet, Pîpe		90									1												
F																										
P YD-3 F	1457594.9471	530763.7179	Inlet, Pipe	1	31									1												
P YD-4	1457849.2700	530686.0592	Inlet, Pîpe	1	152									1												
P YD-5	1457700.7868	530653.55/9	Inlet, Pîpe	1	39									1											#	
P YD-6	1457626.5451	530637.2982	Inlet, Pîpe	1	76									1											#	
F   P   S-161	1457878.6988	530798.2857	FES, Pipe	1	297														1				1		+	
F P S-162	1457585.6400	530734.1260	Cleanout, Pipe		197													1							+	12" CLEANOUT
F				,	151													,								12 CLEANOOT
P S-162a	1457401.8089	530693.8801	FES	1																			/			
P S-163	1457784.9091	530759.1008	Cleanout, Pipe	1 200														1								8" CLEANOUT
P S-164	1457589.5364	530716.3281	Cleanout, Pipe	1 200														1								8" CLEANOUT
P S-164a	1457394.1633	530673.5552	Cleanout	1														1								8" CLEANOUT
F P S-165	1457790.1616	530735.1090	Cleanout, Pipe	1 200														1								8" CLEANOUT
F P S-166																										
F	1457594.7889	530692.3363	Cleanout, Pipe	1 200														1								8" CLEANOUT
P S-166a	1457399.4158	530649.5634	Cleanout	1														1								8" CLEANOUT
P S-167	1457891.7434	530738.6967	FES, Pipe	1 297																			1			
P S-168	1457598.6855	530674.5378	Cleanout, Pipe	1 200														1							1	
F S-169	1457403.3124	530631.7649	Cleanout	1														1								8" CLEANOUT
F																										
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SHEET	TOTALS	- <u>FI</u> I	NAL QUANTITY	,																					+	
			REVISIONS					Vanasse H	langen Bri	ıstlin, Inc.					STAT	TE OF FL	LORIDA	1		CENTRAL I	FLORIDA COMM	UTER RAIL TR.	ANSIT (C	FCRT) PHA	SE 2 SOUT	SHEET
DATE E	37	DESCRIPTION	DATE	BY	DESCRIPTION		$\dashv$	Transporta Environmen 225 E. Rob Orlando, F Certificat	ntion, Lan ntal Servi ninson St	d Developi ces	ment, OO			DEPAI			ANSPORT	A TION		OSC.	EOLA I	PARKW	AY	STA 7	[ION	NO.
								Orlando, F Cert if icat	EL 32801 e of Auth	(407)839-4 orization	4006 # 3932	F	ROAD	NO.	COL	UNTY	FINAN	CIAL PROJECT	T ID	]		MMAR.				
								Paul W. Ye PE # 50682					CFRC	P2S	OSCE	EOLA	423	446-9-52	-0/		DRAINA	GE STI	RUC	TURE	S	1621
								_ 30002								hmar	tinez			5/21/2015	//://:34 AM	\VFL=ORL\projects	·\00220 0I\	and to ann Ph	ann Oldrainas	

### GENERAL NOTES

- The Contractor may use any of the optional pipe materials tabulated for a given structure. Only the material options tabulated for a given structure
- Adjustment to the bid quantities, prices and payment will not be allowed due to increase or decrease in structure size, shape, length, width, depth or accessory construction necessary to accommodate the use of an optional pipe material other than the "plotted" option; likewise there will be no added or reduced compensation for structure alterations required to relieve utility conflicts which arise from the use of an optional material other than the "plotted" option.
- Adjustment to the bid quantities, prices and payment will not be allowed due to increased or decreased excavation, bedding, borrow, backfilling, compaction, special installation requirements or disposal of excess materials due to use of any of the pipe optional materials. Likewise, adjustment in the quantities, prices and payment will not be allowed due to differences in end treatment size or types, pipe length, alternate jointing and connecting materials, saddles, cradles, filter fabrics, shoring or similar features due to the use of an optional material other than the "plotted" option.
- If adjustments are required due to plan errors or omissions or authorized field changes, the "plotted" material and not the material elected by the Contractor would be used to establish new pay quantities.
- The Contractor shall notify the Department in writing as to which optional pipe material he chooses to use at the preconstruction conference. Once identified the contactor may not change pipe material selected without the approval of the Engineer.
- Pipe sizes other than round (Ellipitical/Arch) are summarized and paid for using equivalent round pipe diameter.

STRUCTURE	SIZE (Inches)	MATERIAL	PLOTTED	AS BUILT	REMARKS
	18	RCP CLASS I	Х		
		NRCP CLASS I			
		SRAP, 16 GA.			
		SRASP, 16 GA.			
EXCEPTION S-113, S-114		HDPE, CLASS II			
EXCEPTION S-113, S-114		PVC, ASTM T-949			
		SRSP, 16 GA.			
EXCEPTION S-113, S-114		HDPE, CLASS I			
	2.4	DCD CLACC I	V		
	24	RCP CLASS I	Х		
		NRCP CLASS I			
		SRAP, 16 GA.			
		SRASP, 16 GA.			
		HDPE, CLASS II			
		PVC, ASTM T-949			
		SRSP, 16 GA.			
		HDPE, CLASS I			
	10 × 30	RCP HE II			
	19 X 30	RCP HE II	X		
	21 V 20	RCP HE II	Х		
	24 / 30	RCF IIL II	^		
	36	RCP CLASS I	Х		
	30	NRCP CLASS I	^		
		SRASP, 16 GA.			
		SRSP , 16 GA.			
		31.31 , 10 071.			
	48	RCP CLASS I	Х		
EXCEPTION S-407		SRAP, 16 GA.			
		SRASP, 16 GA.			
		HDPE, CLASS II			
		PVC, ASTM T-949			
		SRSP, 16 GA.			
		HDPE, CLASS I			

REVISIONS DESCRIPTION DATE BY DESCRIPTION

Vanasse Hangen Brustlin, Inc. Transportation, Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

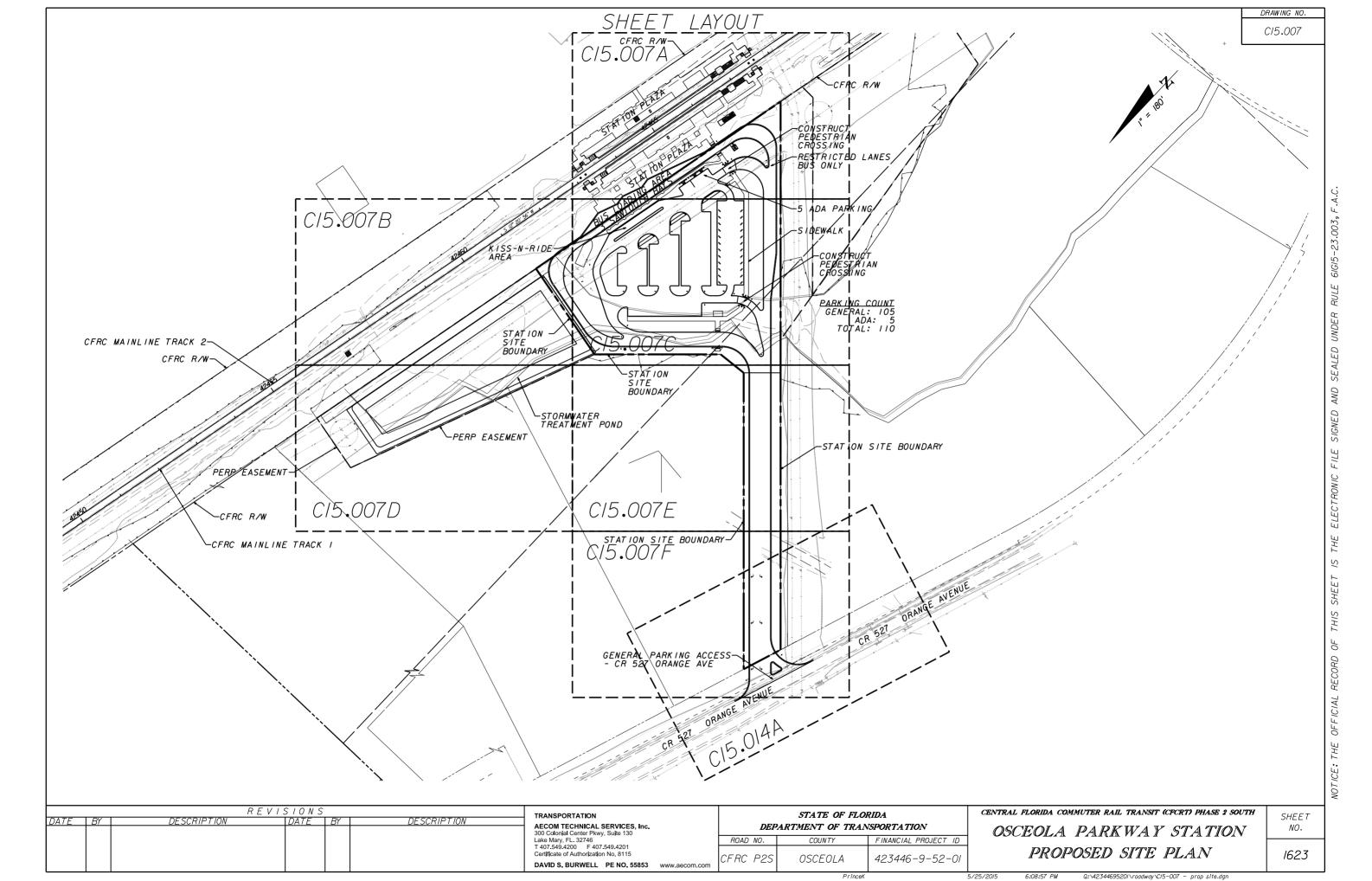
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. FINANCIAL PROJECT ID COUNTY CFRC P2S OSCEOLA 423446-9-52-01

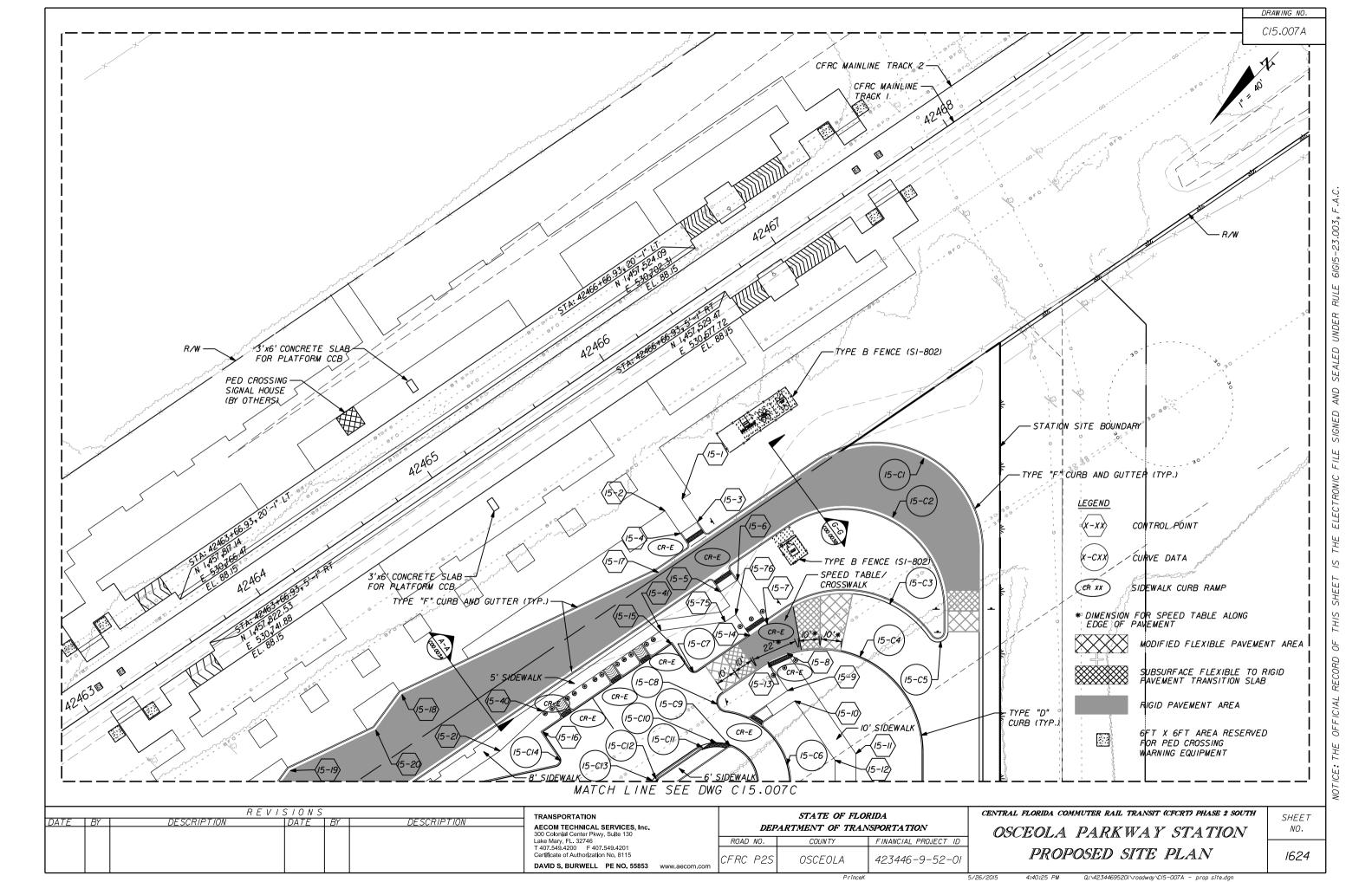
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION OPTIONAL MATERIALS TABULATION

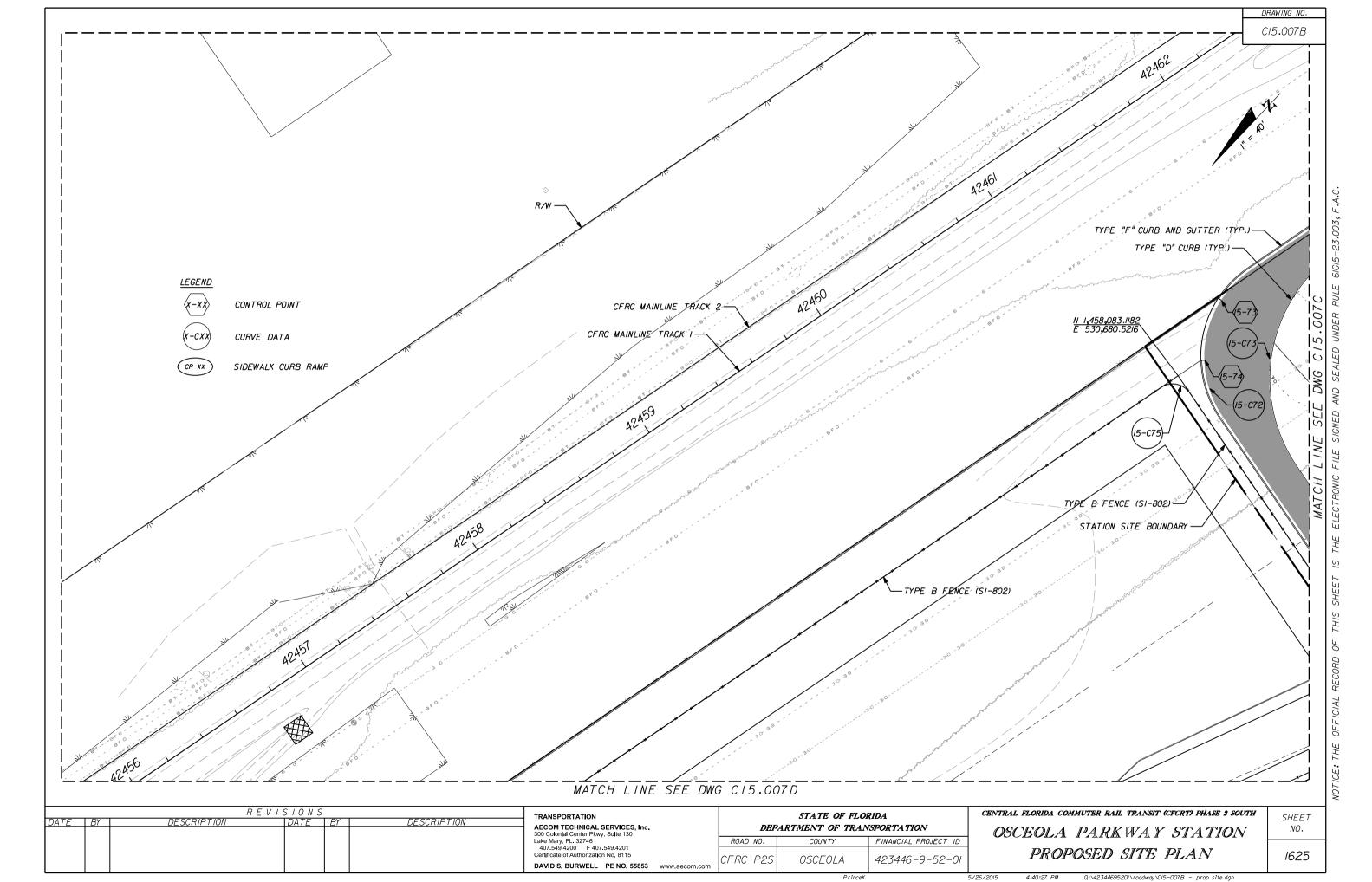
SHEET

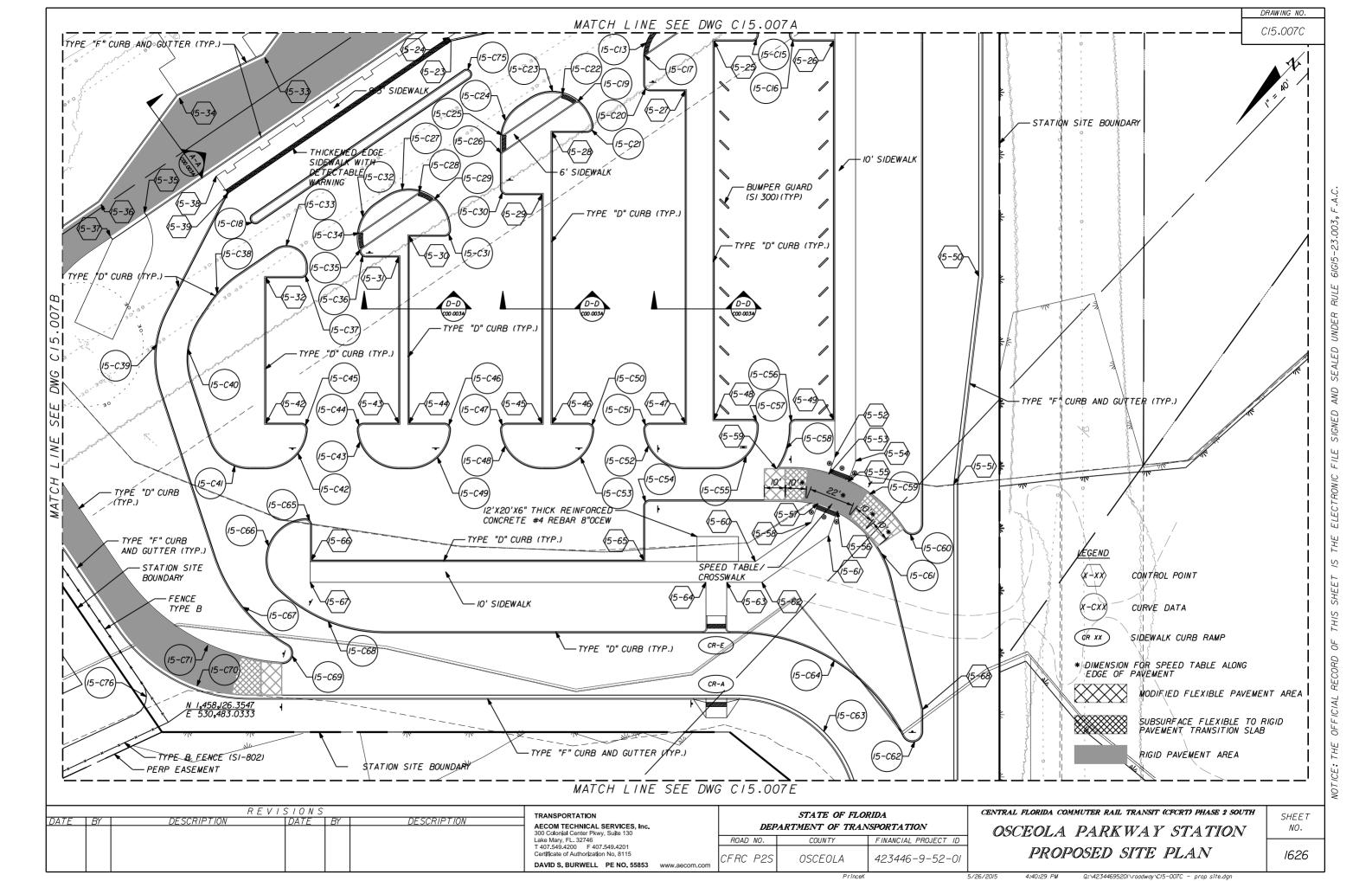
1622

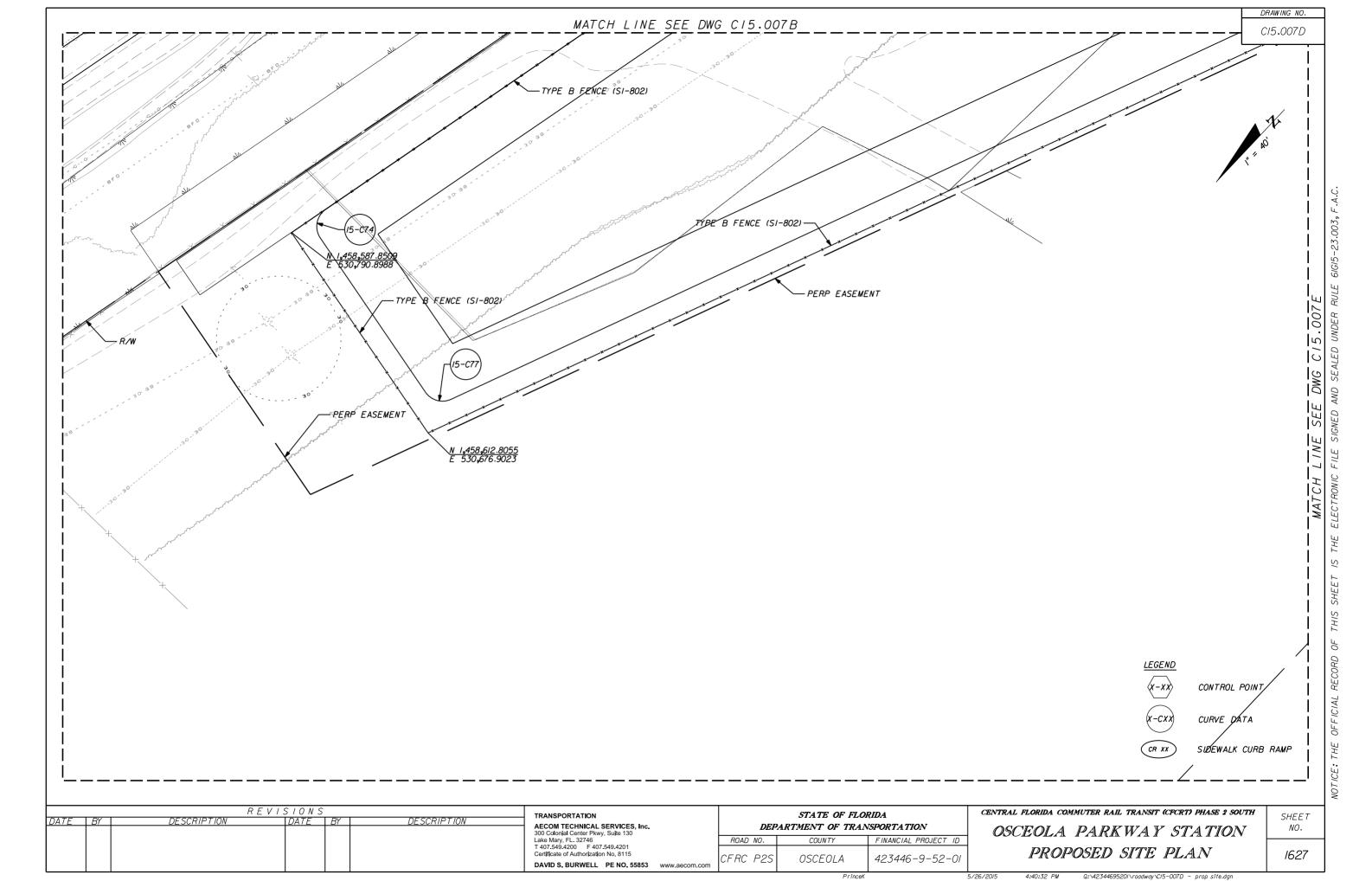
\whb\proj\Orlando\O9220.0I\cad\te\eng\Phase 2\drainage\Cl5-OlOAA - Optional Material Tabulatio

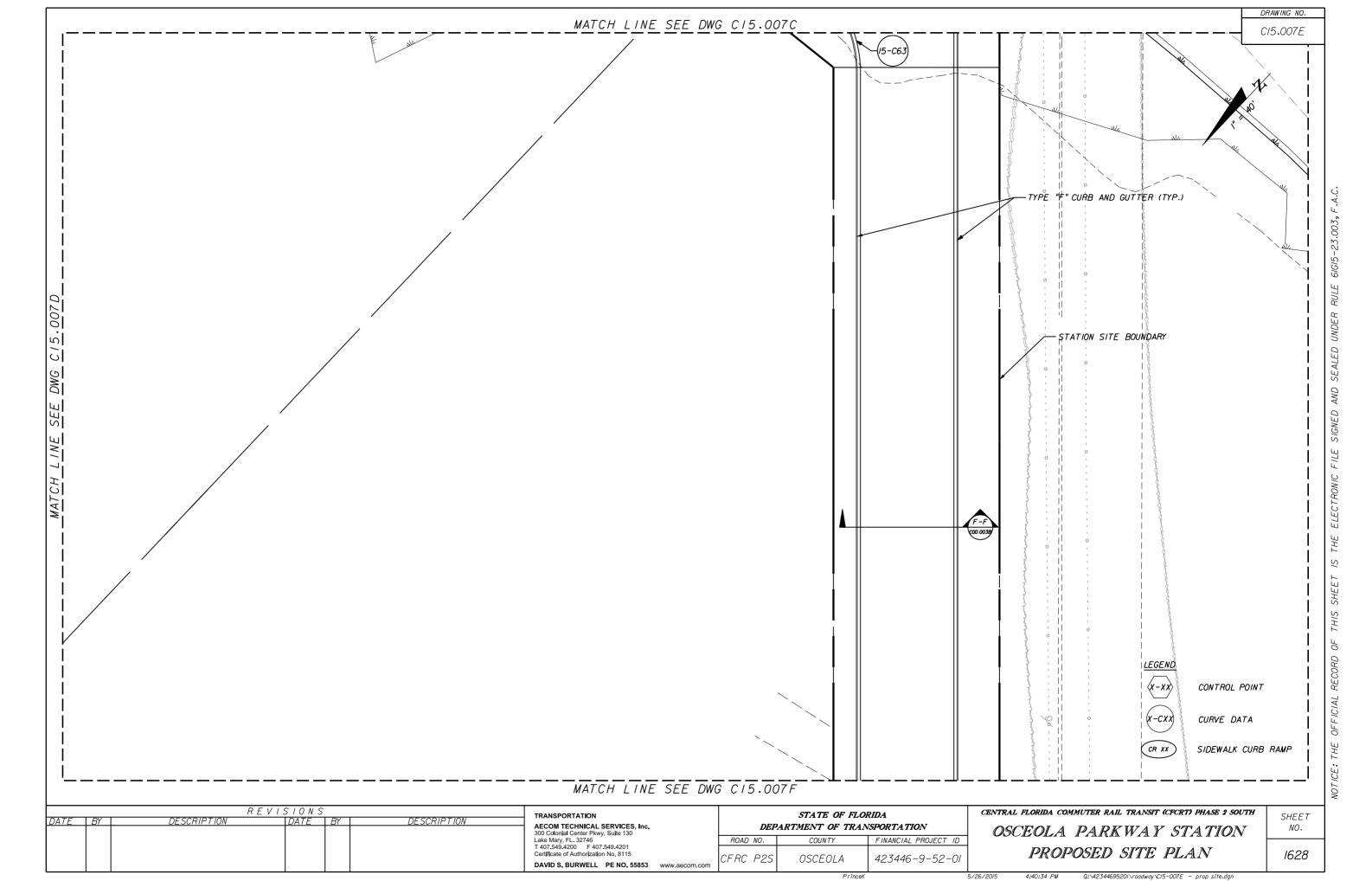


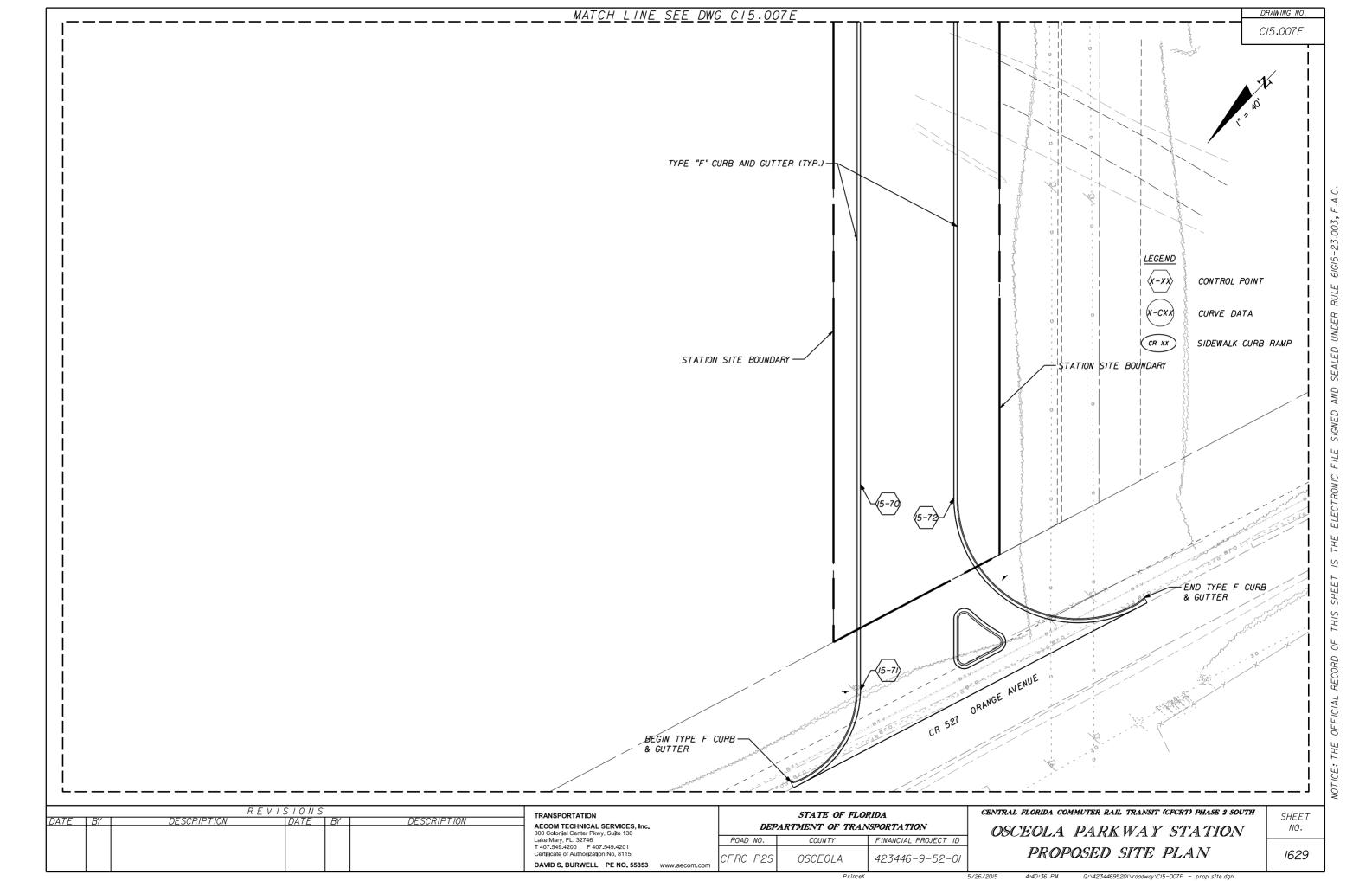


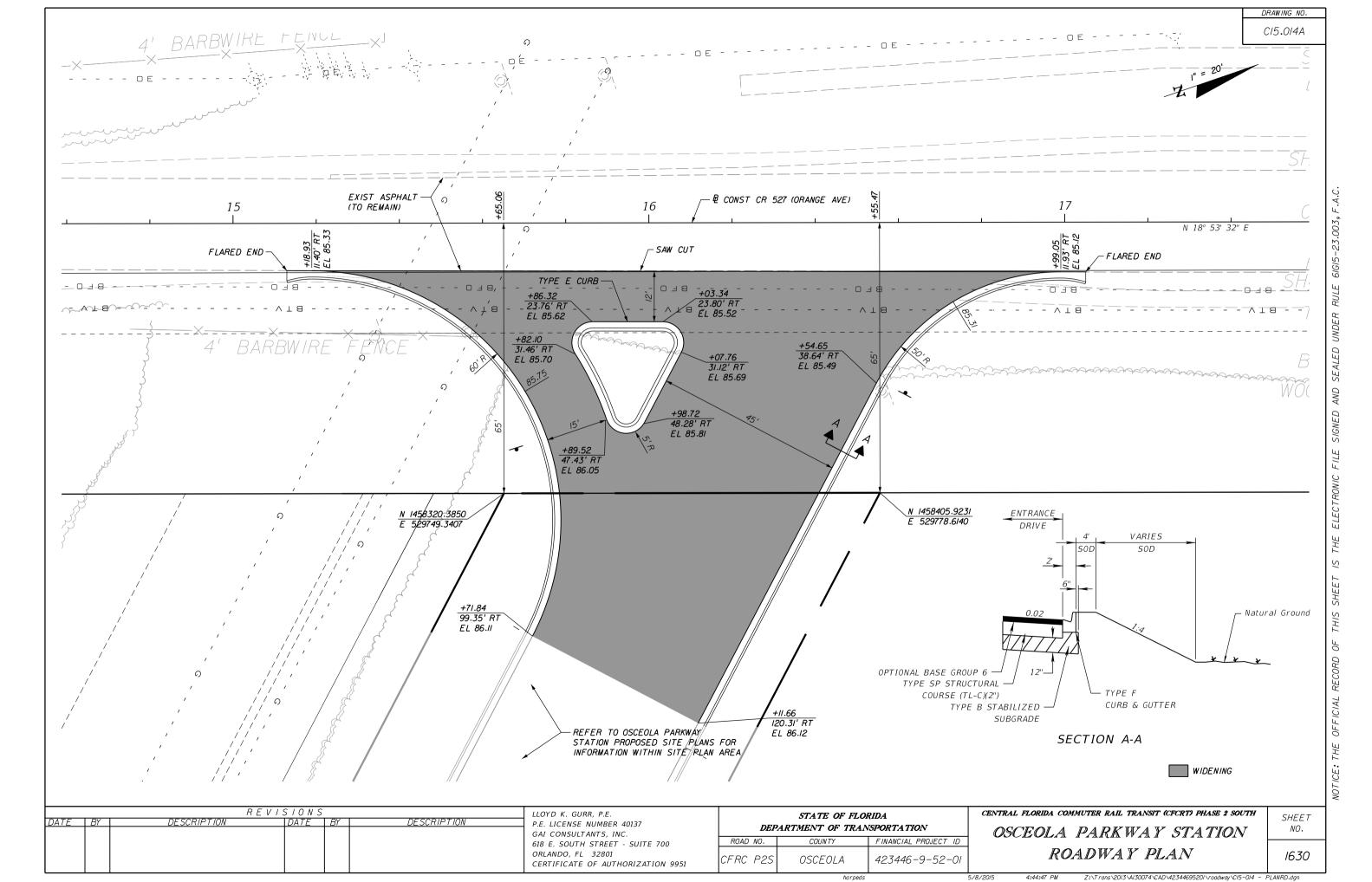












### CURVE DATA

ВМ	COORD	INATES	ELEV.
NAME	NORTH	EAST	ELEV.
BM 50	1,457,321.7250	530,486.7578	83.99
BM 51	1,458,227.0409	530,963.0067	80.69
BM 52	1,459,185.5287	530,994.8448	80.79

BENCHMARK DATA

### CONTROL POINT DATA

NUMBER	COORDI	NATES	ELEV.
NUMBER	NORTH	EAST	LLEV.
15-1	1,457,618.6196	530,613.6229	87.12
15-2	1,457,628.3875	530,615.7651	87.08
15-3	1,457,619.1545	530,611.1808	86.96
15-4	1,457,628.9230	530,613.3201	86.90
<i>1</i> 5-5	1,457,636.1965	530,580.1072	86.72
<i>15-6</i>	1,457,628.7813	530,567.2226	86.78
15-7	1,457,631.8832	530,553.0582	86.56
<i>15-8</i>	1,457,635.5301	530,536.4059	86.45
15-9	1,457,648.4975	530,523.9384	86.40
15-10	1,457,649.7810	530,518.0773	86.45
15-11	1,457,648.0546	530,479.2161	86.10
15-12	1,457,657.1628	530,484.3702	85.98
15-13	1,457,644.8978	530,540.3754	86.31
15-14	1,457,641.6517	530,555.1975	86.39
15-15	1,457,658.8903	530,579.4468	85.87
15-16	1,457,715.5476	530,591.8546	85.74
15-17	1,457,649.7778	530,608.1621	86.12
- 15-18	1,457,777.1599	530,657.5563	86.97
15-19	1,457,840.6551	530,671.4617	86.32
15-20	1,457,798.1944	530,654.9970	86.78
15-21	1,457,768.6841	530,605.5389	86.10
15-22	NOT USED	555,555.555	
15-23	1,457,775.2874	530,589.5821	85.79
15-24	1,457,764.2317	530,582.0424	85.79
15-25	1,457,707.3797	530,516.8565	85.31
15-26	1,457,667.9602	530,475.0965	85.34
. <u>5 23</u> 15-27	1,457,734.3788	530,510.6256	85.28
. <u>5 -28</u>	1,457,792.8516	530,543.4422	85.42
15-29	1,457,818.1010	530,526.4872	85.47
15-30	1,457,876.5738	530,559.3038	85.26
15-31	1,457,887.2782	530,556.0764	85.22
.5 -32	1,457,938.4785	530,595.7567	85.12
15-33	1,457,861.6896	530,668.9024	86.17
15-34	1,457,904.1503	530,685.3671	86.40
. <u>.                                   </u>	1,457,955.8100	530,659.8273	86.02
15-36	1,457,967.2538	530,677.6890	85.74
. <u>5 30</u> 15-37	1,457,975.3469	530,664.1059	85.68
. <u>5 3.</u> 15-38	1,457,919.3508	530,646.7243	85.43
15-39	1,457,921.3646	530,636.9284	85.33
15- <b>4</b> 0	1,457,736.4254	530,602.7397	86.29
15-41	1,457,669.2804	530,588.0350	86.45
15-42	1,457,989.3860	530,547.7106	86.32
15-43	1,457,945.4582	530,501.1666	86.32
15-44	1,457,942.0263	530,497.5303	86.32
15- <b>4</b> 5	1,457,898.0985	530,450.9863	86.32
15-46	1,457,894.6667	530,447.3501	86.32
15-47	1,457,850.7388	530,400.8060	86.32
15 <del>-1</del> 1 15-48	1,457,839.8025	530,391.8770	86.32
15 <del>40</del> 15-49	1,457,800.3866	530,350.1136	86.30
	. y . 5. y 550 15000	3309330.1130	85.67

CURVE	P.C. STAT COORDINA		P.I. STAT COORDINA		P.T. ST COORDI		DELTA	TANGENT	LENGTH	RADIUS
NAME	NORTH	EAST	NORTH	EAST	NORTH	EAST				
15-CI	1,457,536.1490	530,503.2458	1,457,467.3216	530,568.2044	1,457,559.7711	530 <b>,</b> 588.4507	124° 18′ 13.26″ LT	94.64'	108.48'	50.00'
15-C2	1,457,567.0927	530,494.6669	1,457,498.2654	530 <b>,</b> 559.6256	1,457,590.7149	530 <b>,</b> 579.8719	124° 18′ 13.26″ LT	94.64'	108.48'	50.00'
15-C3	1,457,583.2389	530,491.9287	1,457,573.3573	530,540.2411	1,457,621.5283	530,550.7905	89° 12' 24.78" LT	49.31'	77.85'	50.00'
15-C4 15-C5	1,457,648.9245 1,457,583.2389	530,541.4348 530,491.9287	1,457,556.4749	530,521.1884 530,476.4380	1,457,625.3023	530,456.2298 530,487.2905	124° 18' 13.26" RT   144° 54' 11.52" LT	94.64' 15.81'	108.48' 12.65'	50.00' 5.00'
15-C5 15-C6	1,457,676.3816	530,491.9281	1,457,586.4073 1,457,658.2769	530,476.4380	1,457,574.9085 1,457,680.3593	530,487.2905	82° 22′ 32.46″ RT	30.63'	50.32'	35.00
15-C7	1,457,671.4458	530,562.3642	1,457,674.3764	530,562.3642	1,457,673.7346	530,565.2947	90° 00' 00.00" RT	3.00'	4.71'	3.00'
15-C8	1,457,676.3816	530,538.4905	1,457,684.2016	530,549.1604	1,457,671.2791	530,546.3304	138° 35' 25.36" RT	13.23'	12.09'	5.00'
15-C9	1,457,685.9706	530,524.5736	1,457,686.5347	530,526.1263	1,457,688.1485	530,526.4797	57° 40′ 46.51″ LT	1.65'	3.02'	3.00'
15-C10	1,457,700.3331	530,537.3377	1,457,664.2291	530,529.4310	1,457,690.5970	530,503.5322	123° 09′ 41.47″ RT	36.96'	42.99'	20.00'
15-CII	1,457,696.8375	530,536.0469	1,457,689.4867	530,532.9150	1,457,697.2919	530,534.6243	169° 16′ 31.17″ RT	7.99'	2.22'	0.75'
15-C12	1,457,722.0383	530,541.5659	1,457,730.0253	530,541.7929	1,457,722.2201	530,540.0835	169° 16' 31.18" LT	7.99'	2.22'	0.75'
15-C13	1,457,736.3293	530,536.2856	1,457,728.6449	530,543.5380	1,457,718.3232	530,541.2775	55° 41' 47.14" RT	10.57'	19.44'	20.00'
15-CI4 15-CI5	1,457,751.5320 1,457,694.8809	530,577.3972 530,503.6/34	1,457,747.8616 1,457,692.7804	530,577.3972 530,501.3877	1,457,746.9112 1,457,690.5970	530,581.7371 530,503.5322	III° 56′ 24.86″ LT   9I° 08′ 31.79″ LT	4.44' 3.06'	5.86' 4.77'	3.00' 3.00'
15-C16	1,457,680.3593	530,492.5653	1,457,682.5029	530,490.5053	1,457,680.4623	530,488.3432	89° 28' 53.83" LT	2.97'	4.69'	3.00'
15-C17	1,457,736.6435	530,535.7598	1,457,735.4909	530,536.8476	1,457,733.9426	530,536.5086	55° 41' 46.74" RT	1.58'	2.92'	3.00'
15-C18	1,457,921.7591	530,616.5408	, y 101 y 100 1 1000	000,000.0	1,457,920.6894	530,621.4250	180° 00' 00.00" RT		7.85'	2.50'
15-C19	1,457,773.1697	530,543.5///	1,457,773.1866	530,545.1030	1,457,774.7417	530,545.4435	77° 02' 18.01" LT	1.59'	2.69'	2.00'
15-C20	1,457,745.9245	530,527.2297	1,457,748.1062	530,525.1706	1,457,746.0471	530,522.9888	90° 00' 00.00" LT	3.00'	4.71'	3.00'
15-C2I	1,457,776.7773	530,531.6058	1,457,778.9005	530,528.6601	1,457,781.3927	530,531.3008	100° 52′ 21.99″ RT	3.63'	5.28'	3.00'
15-C22	1,457,776.0549	530,553.6036	1,457,774.8413	530,551.6075	1,457,777.1233	530,552.1073	133° 39' 04.06" RT	2.34'	2.33'	1.00'
15-C23	1,457,776.7773	530,531.6058	1,457,758.9636	530,556.3/99	1,457,788.7233	530,562.8373	113° 25' 51.28" LT	30.46'	39.59'	20.00'
15-C24	1,457,812.6420	530,559.1402	1,457,804.9577	530,566.3926	1,457,794.6360	530,564.1321	55° 41′ 47.21″ RT	10.57'	19.44'	20.00'
15-C25 15-C26	1,457,810.0042 1,457,817.8544	530,561.0385 530,553.9916	1,457,811.9409 1,457,817.0860	530,559.7323 530,554.7169	1,457,809.6590 1,457,816.0538	530,559.2326 530,554.4908	133° 39' 04.06" LT 55° 41' 46.74" RT	2.34' 1.06'	2.33' 1.94'	1.00' 2.00'
15-C27	1,457,860.6303	530,546.8541	1,457,834.0693	530,572.7680	1,457,870.3184	530,580.7065	123° 21′ 13.97″ LT	37.II'	43.06'	20.00'
15-C28	1,457,857.6499	530,571.4729	1,457,856.4364	530,569.4768	1,457,858.7183	530,569.9765	133° 39' 04.06" RT	2.34'	2.33'	1.00'
15-C29	1,457,854.7648	530,561.3803	1,457,854.7817	530,562.9722	1,457,856.3368	530,563.3/28	77° 02' 18.01" LT	1.59'	2.69'	2.00'
15-C30	1,457,829.6467	530,543.0914	1,457,831.8284	530,541.0323	1,457,829.7693	530,538.8505	90° 00' 00.00" LT	3.00'	4.71'	3.00'
15-C31	1,457,860.6303	530,546.8541	1,457,862.8135	530,544.7241	1,457,864.9071	530,546.9423	90° 56′ 59.29″ RT	3.05'	4.76'	3.00'
15-C32	1,457,876.2311	530,582.0014	1,457,891.9038	530 <b>,</b> 585.4337	1,457,898.6536	530 <b>,</b> 570.8785	77° 28′ 24.51″ LT	16.04'	27.04'	20.00'
15-C33	1,457,925.5001	530,602.0045	1,457,907.0103	530,597.9552	1,457,920.7757	530,584.9636	124° 18′ 12.23″ RT	18.93'	21.70'	10.00'
15-C34	1,457,891.5992	530,578.9077	1,457,893.5360	530,577.60/5	1,457,891.2540	530,577.1018	133° 39' 04.06" LT	2.34'	2.33'	1.00'
15-C35	1,457,898.4385	530,570.9448	1,457,897.7578	530,572.3839	1,457,896.2027	530,572.0434	77° 02' 18.01" RT	1.59'	2.69'	2.00'
15-C36 15-C37	1,457,898.6536 1,457,926.8102	530,570.8785 530,583.3934	1,457,899.5085 1,457,924.7510	530,569.035 <i>i</i> 530,581.2117	1,457,898.1138 1,457,922.5693	530,567.5573 530,583.2708	68° 13' 22.22" LT	2.03' 3.00'	3.57' 4.71'	3.00' 3.00'
15-C38	1,457,965.6916	530,607.1455	1,457,956.1931	530,608.7263	1,457,946.7869	530,606.6663	21° 48' 05.07" RT	9.63'	19.03'	50.00'
15-C39	1,458,012.8736	530,613.3490	1,458,002.9023	530,613.3490	1,457,982.8146	530,619.1580	45° 23' 27.25" RT	20.91'	39.61'	50.00'
15-C40	1,457,999.6889	530,587.8160	1,457,991.5359	530,602.8444	1,457,974.6703	530,605.65/3	52° 04' 15.94" RT	17.10'	31.81'	35.00'
15-C4I	1,458,010.8191	530,538.4415	1,458,020.7604	530,548.9749	1,458,013.8537	530,561.7060	71° 49′ 25.35″ RT	14.48'	25.07'	20.00'
15-C42	1,458,005.3486	530,532.6453	1,457,992.4450	530,518.9731	978.0014,457	530,531.0070	86° 27′ 22.92″ LT	18.80'	30.18'	20.00'
15-C43	1,457,961.4208	530,486.1012	1,457,974.3244	530,499.7734	1,457,961.4760	530,513.4974	86° 27' 22.92" RT	18.80'	30.18'	20.00'
15-C44	1,457,961.4760	530,5/3.4974	1,457,959.2948	530,515.8272	1,457,957.1042	530,5/3.5062	93° 32′ 37.08″ RT	3.19'	4.90'	3.00'
15-C45	1,457,978.0014	530,531.0070	1,457,975.5494	530,533.0500	1,457,977.7400	530,535.3710	93° 32′ 37.08″ LT	3.19'	4.90'	3.00'
15-C46 15-C47	1,457,930.6417 1,457,914.1163	530,480.8267 530,463.3171	1,457,928.1898 1,457,911.9351	530,482.8697 530,465.6470	1,457,930.3803 1,457,909.7445	530 <b>,</b> 485.1907 530 <b>,</b> 463.3259	93° 32′ 37.08″ LT 93° 32′ 37.08″ RT	3.19' 3.19'	4.90' 4.90'	3.00' 3.00'
15-C48	1,457,914.0611	530,435.9210	1,457,926.9648	530,449.5931	1,457,914.1163	530,463.3171	86° 27′ 22.89″ RT		30.18'	20.00'
15-C49	1,457,930.6417	530,480.8267	1,457,945.0853	530,468.7928	1,457,957.9889	530,482.4650	86° 27' 22.92" RT	18.80'	30.18'	20.00'
15-C50	1,457,883.2821	530,430.6465	1,457,880.8301	530,432.6894	1,457,883.0206	530,435.0104	93° 32′ 37.08″ LT	3.19'	4.90'	3.00'
15-C5I	1,457,866.7566	530,413.1368	1,457,864.5754	530,415.4667	1,457,862.3849	530,413.1456	93° 32′ 37.08″ RT	3.19'	4.90'	3.00'
15-C52	1,457,866.7566	530,413.1368	1,457,879.6051	530,399.4128	1,457,866.7014	530,385.7407	86° 27′ 22.92″ LT	18.80'	30.18'	20.00'
15-C53	1,457,883.2821	530 <b>,</b> 430.6465	1,457,897.7256	530 <b>,</b> 418.6126	1,457,910.6293	530,432.2847	86° 27′ 22.92″ RT	18.80'	30.18'	20.00'
15-C54	1,457,893.5/94	530,387.9310	1,457,891.3377	530,389.9901	1,457,889.2785	530,387.8083	90° 00' 00.00" RT	3.00'	4.71'	3.00'
/5-C55	1,457,856.2595	530,374.6769	1,457,842.5321	530,360.1318	1,457,827.9871	530,373.8593	90° 00' 00.00" LT	20.00'	31.42'	20.00'
15-C56	1,457,817.1780	530,363.4452	1,457,814.9946	530,365.5916	1,457,812.8931	530,363.3649	91° 10' 01.97" RT	3.06'	4.77'	3.00'
/5-C57 /5-C58	NOT USED 1,457,817.1780	530,363.4452	1,457,825.2918	530,355.4687	1,457,836.5450	530,353.7882	36° 01' 01.63" RT	11.38'	22.00'	35.00'
15-C59	1,457,815.9028	530,288.9755	1,457,807.6715	530,323.1953	1,457,831.8291	530,348.7914	56° 52' 07.82" LT	35.20'	64.52'	65.00'
15-C60	1,457,815.9028	530,288.9755	1,457,819.8339	530,272.6327	1,457,807.6096	530,284.1699	146° 52′ 07.03″ LT	16.81'	12.82'	5.00'
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TRANSPORTATIO	ON		ST	ATE OF FLORID		CENTRAL F	LORIDA COMMUTER RA	AIL TRANSIT (C.	FCRT) PHASE 2 S	SHE SHE

REVISIONS DATE BY

TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 300 Colonial Center Pkwy, Suite 130 Lake Mary, FL. 32746 T 407.549.4201 Certificate of Authorization No. 8115 DAVID S. BURWELL PE NO. 55853 www.aecom.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S OSCEOLA 423446-9-52-01

OSCEOLA PARKWAY STATION COORDINATE DATA

SHEET NO.

4:33:42 PM Q:\4234469520I\roadway\CI5-008 - coord data.dgn

### CURVE DATA

	COORDI	5,5,4			
NUMBER	NORTH	EAST	- ELEV.		
<i>15-51</i>	1,457,783.2088	530,286.5735	85.42		
<i>15-52</i>	1,457,813.2004	530,337.1035	87.42		
<i>15-53</i>	1,457,821.1727	530,333.6628	87.50		
<i>15-54</i>	6190. 807 و457 457	530,328.6207	87.32		
<i>1</i> 5-55	1,457,817.3352	530,324.4275	87.40		
<i>15-56</i>	1,457,831.1812	530,318.4519	87.40		
<i>15-57</i>	1,457,834.9810	530,327.7036	87.50		
<i>15-58</i>	1,457,843.8787	530,323.8636	87.40		
<i>15-59</i>	1,457,836.5450	530,353.7882	87.00		
<i>15-60</i>	1,457,875.9690	530,330.4837	86.95		
<i>15-61</i>	ااا842.8، 457م	530,313.4328	87.32		
<i>15-62</i>	1,457,881.0774	530,321.3270	87.00		
<i>15-63</i>	1,457,892.7304	530,333.6740	86.75		
<i>15-64</i>	1,457,899.5941	530,340.9465	86.80		
<i>15-65</i>	1,457,912.4279	530,370.0853	87.50		
<i>15-66</i>	1,458,022.2475	530,486.4454	87.50		
<i>15-67</i>	1,458,030.4624	530,479.6089	87.80		
<i>15-68</i>	1,473,579.0175	535,729.4929	86.43		
<i>15-69</i>	1,458,135.2890	530,016.1604	84.69		
15-70	1,458,341.7353	529,821.3183	84.70		
15-71	1,458,413.6852	529 <b>,</b> 753.4I27	84.71		
15-72	1,458,315.6788	529,784.0333	84.72		
<i>15-73</i>	1,458,042.3895	530,690.1840	85.20		
<i>15-74</i>	1,458,068.8376	530,676.2896	84.75		
<i>15-75</i>	1,457,645.0686	530,568.4861	86.50		
15-76	1,457,639.0311	530,567.1639	86.55		

CONTROL POINT DATA

CURVE	P.C. STAT COORDINA	TION TES	P.I. STAT	TION TES	P.T. ST COORDI		DELTA	TANGENT	LENGTH	RADIUS
NAME	NORTH	EAST	NORTH	EAST	NORTH	EAST		774102111		717.0.03
15-C6I	1,457,837.2432	530,276.8276	1,457,815.6809	530,309.8277	1,457,842.7378	530,338.4958	76° 30' 16.15" LT	39.42'	66.76'	50.00'
15-C62	1,457,888.3395	530,221.0045	1,457,895.6404	530,201.0873	1,457,880.2131	530,215.6474	153° 28' 28.73" LT		13.39'	5.00'
15-C63	1,457,931.6587	530,208.3447	1,457,888.0239	530,249.5271	1,457,929.2061	530,293.1620	89° 59' 59.54" LT	60.00'	94.25'	60.00'
15-C64	1,457,907.3882	530,313.7526	1,457,869.1811	530,273.2695	1,457,888.3395	530,221.0045	63° 28' 27.14" RT	55.67'	99.71'	90.00'
15-C65	1,458,009.9078	530,498.0915	1,458,007.5870	530,500.2818	1,458,009.9164	530,502.4630	93° 32' 17.25" LT	3.19'	4.90'	3.00'
15-C66	1,458,043.5865	530,487.8635	1,458,043.5880		1,458,009.9164	530,502.4630	133° 07' 12.42" RT	46.13'	46.47'	20.00'
15-C67	1,458,052.8750	530,521.2344	1,458,066.8335		1,458,059.6722	530,467.1221	42° 38′ 27.29″ LT	29.27'	55.82'	75.00'
15-C68	1,458,043.5865	<i>530,487.8635</i>	1,458,043.5855	530,458.0615	1,458,023.1302	530,436.3879	43° 20′ 30.69″ LT	29.80'	56.73'	75.00'
15-C69	1,458,068.3463	530 <b>,</b> 446.0511			1,458,059.6722	530 <b>,4</b> 67.1221	154° 05′ 07.85″ LT		13.45'	5.00'
15-C70	1,458,108.6848	530,531.0119	1 <b>,</b> 458,117.1583	530,492.3080	1,458,089.9639	530,463.4940	55° 41′ 33.50″ LT	39.62'	72.90'	75.00'
15-C71	1,458,089.5127	530 <b>,</b> 548.4459	1,458,100.0418	530,500.3525	1,458,068.3463	530 <b>,</b> 462.6799	52° 25′ 27.59″ LT	49.23'	91.50'	100.00'
15-C72	1,458,022.7254	530 <b>,</b> 689.8372	1,458,071.5710	530 <b>,</b> 700.5344	1,458,082.2650	530,651.6881	90° 00′ 13.23″ LT	50.00'	78.54'	50.00'
15-C73	1,458,076.1672	530 <b>,</b> 609.4031	1,458,060.1262	530 <sub>9</sub> 682.6725	1,457,986.8578	530,666.6268	90° 00′ 13.23″ RT	75.00'	117.81'	75.00'
15-C74	1,458,396.9677	530,691.3936	1,458,386.2888	530,740.2399	1,458,337.4425	530 <b>,</b> 729.5610	90° 00' 00.00" RT	50.00'	78.54'	50.00'
15-C75	1,457,801.4931	530,590.2026			1,457,800.4234	530,595.0869	180° 00' 00.00" LT		7.85'	2.50'
15-C76	1,458,112.4330	530,588.2432	1,458,123.1119	530,539.3969	1,458,171.9582	530,550.0758	90° 00' 00.00" RT	50.00'	78.54'	50.00'
15-C77	1,458,367.3434	530,592.7914	1,458,416.1897	530,603.4703	1,458,405.5108	530,652.3166	90° 00' 00.00" RT	50.00'	78.54'	50.00'

REVISIONS						
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
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TRANSPORTATION
AECOM TECHNICAL SERVICES, Inc.
300 Colonial Center Pkwy, Suite 130
Lake Mary, FL. 32746
T 407.549.4200 F 407.549.4201
Certificate of Authorization No. 8115
DAVID S, BURWELL PE NO. 55853 www.aecom.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

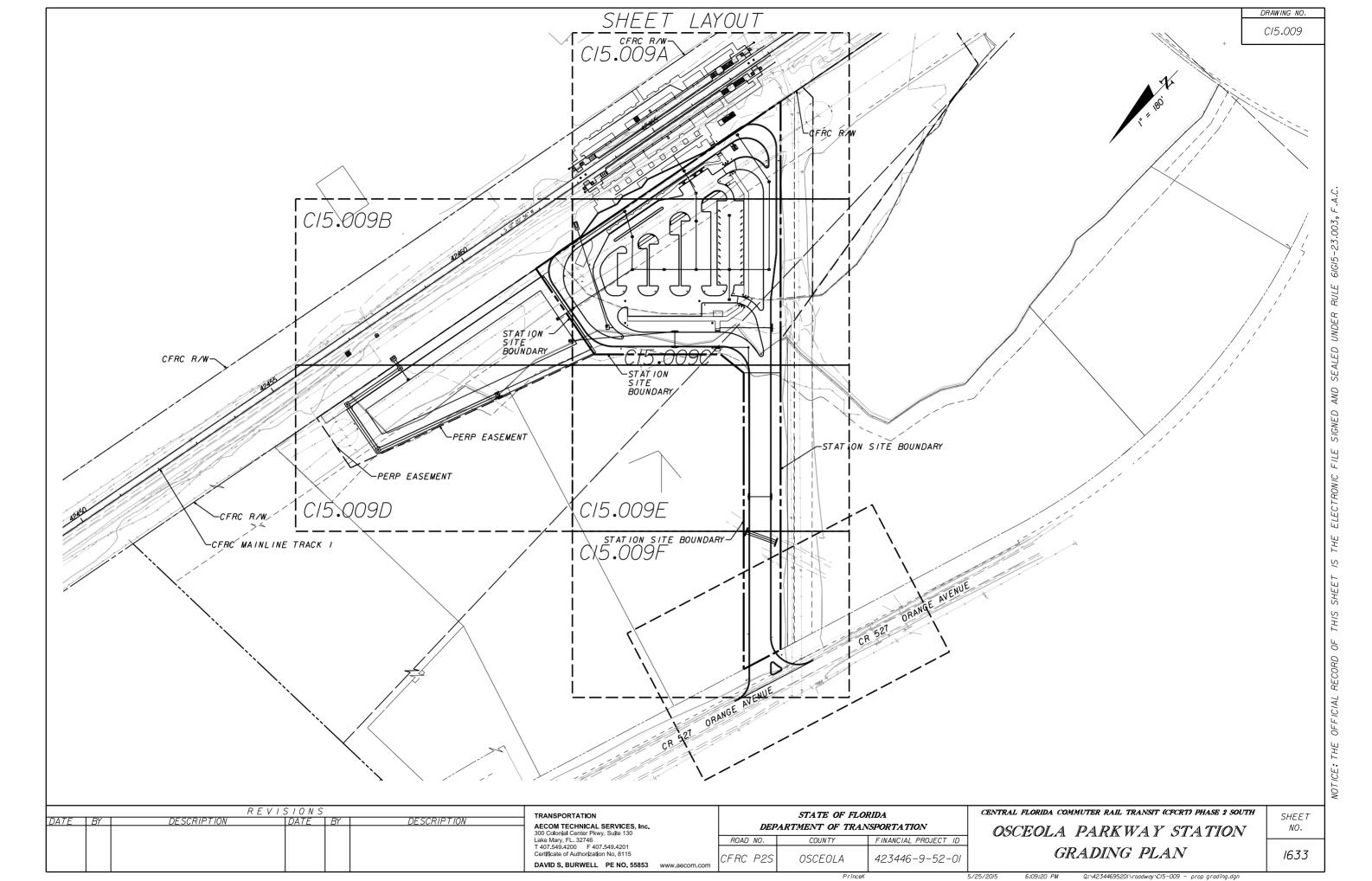
ROAD NO. COUNTY FINANCIAL PROJECT ID

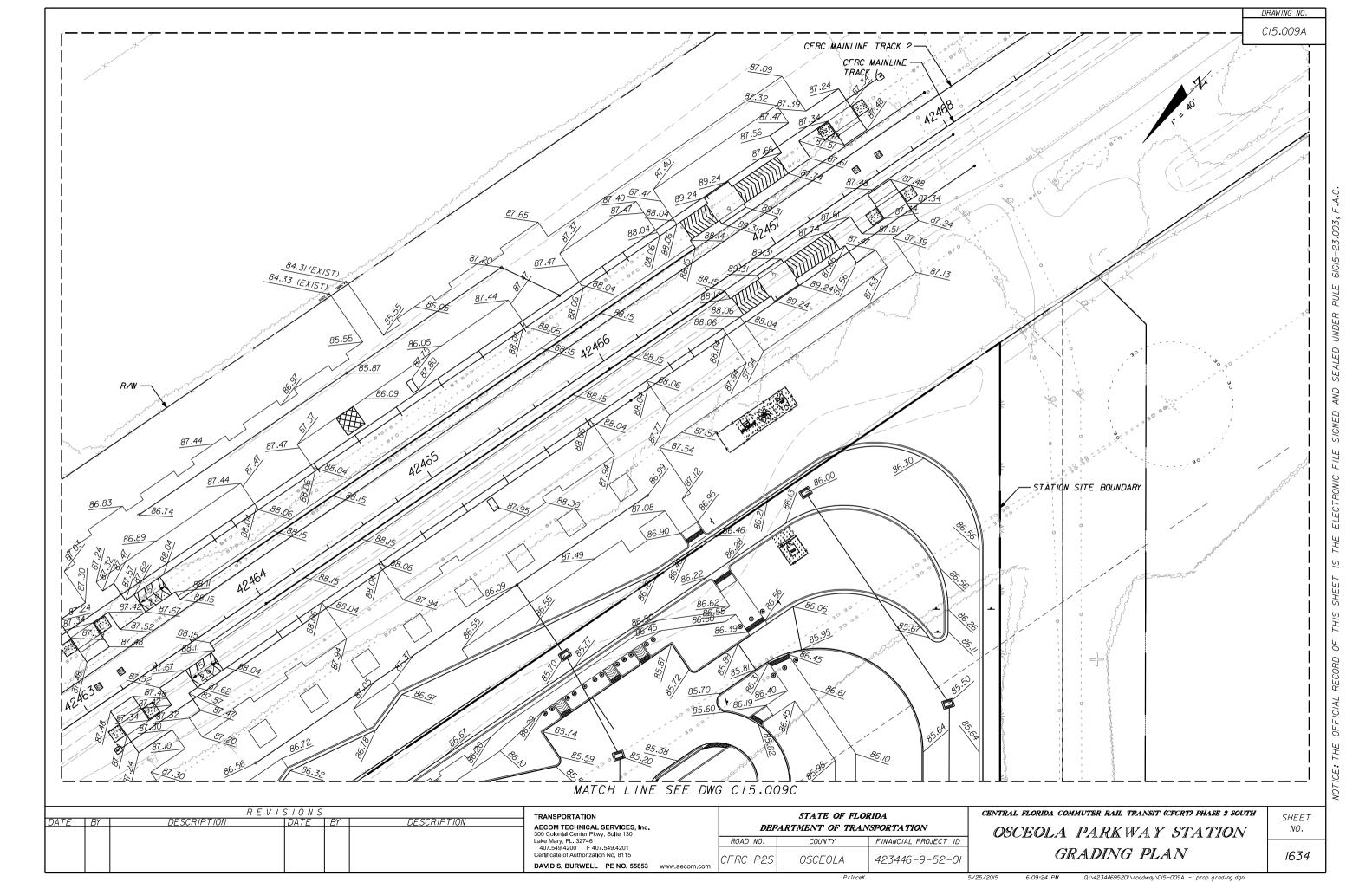
CFRC P2S OSCEOLA 423446-9-52-01

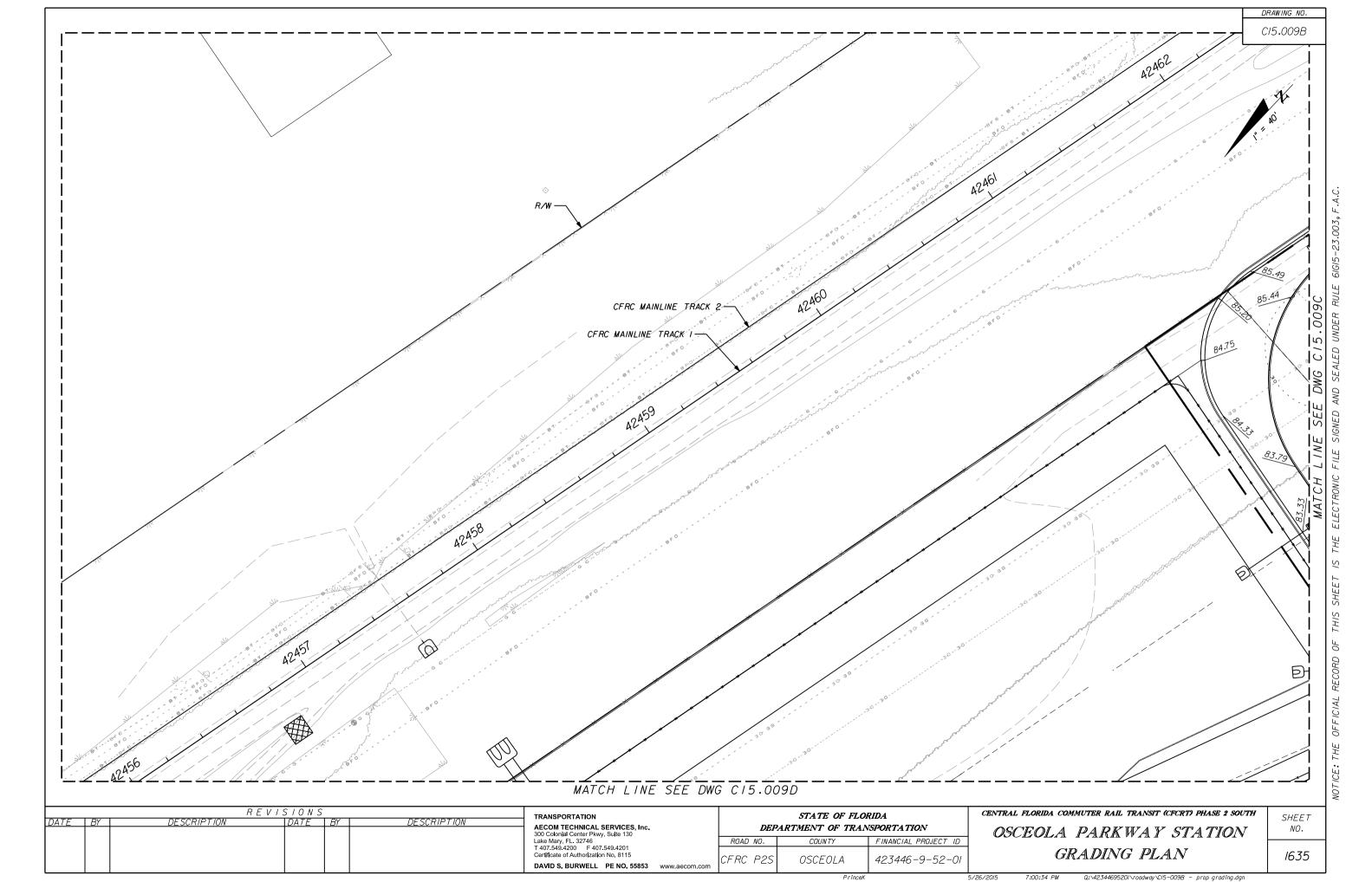
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

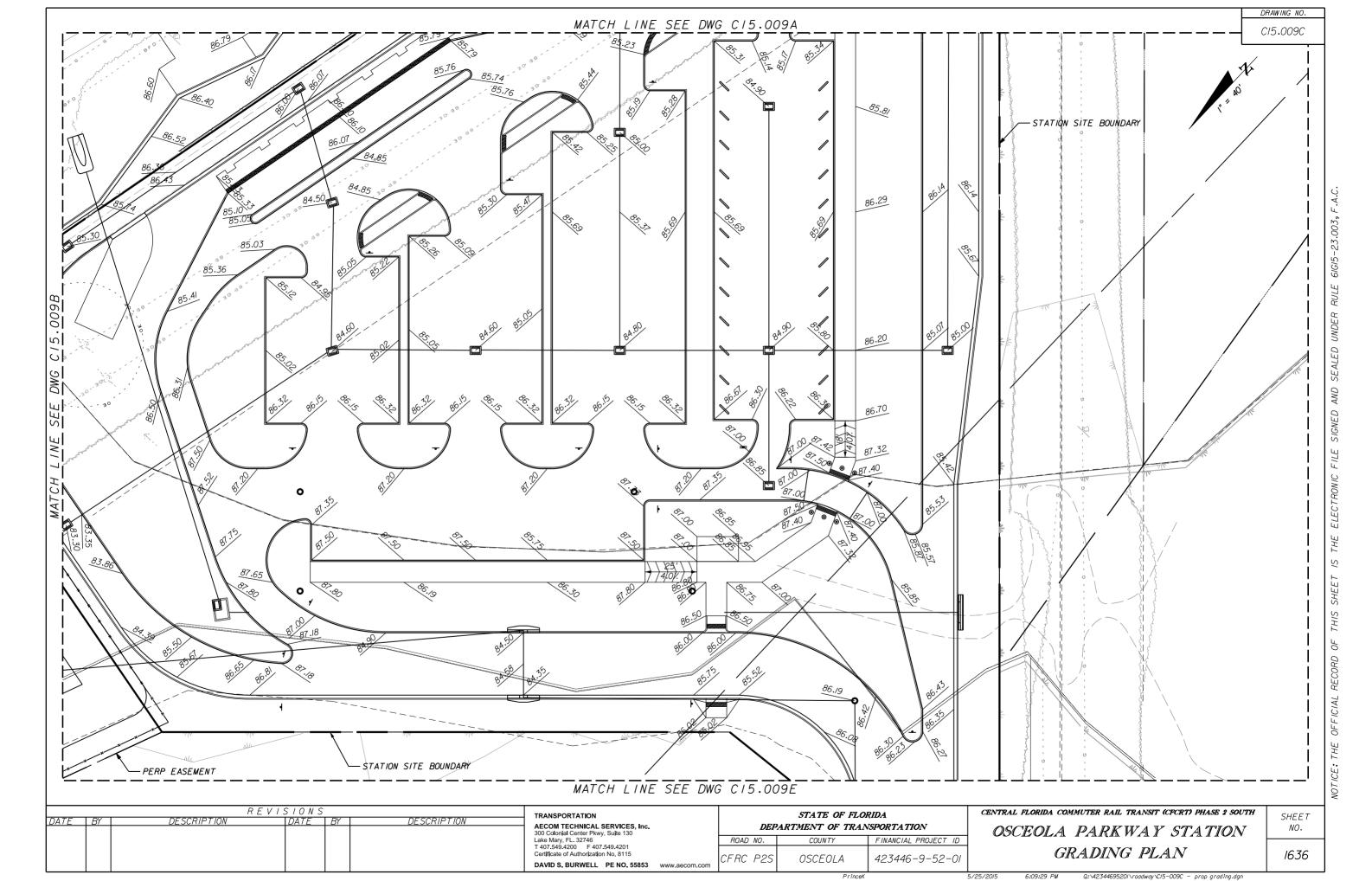
OSCEOLA PARKWAY STATION
COORDINATE DATA

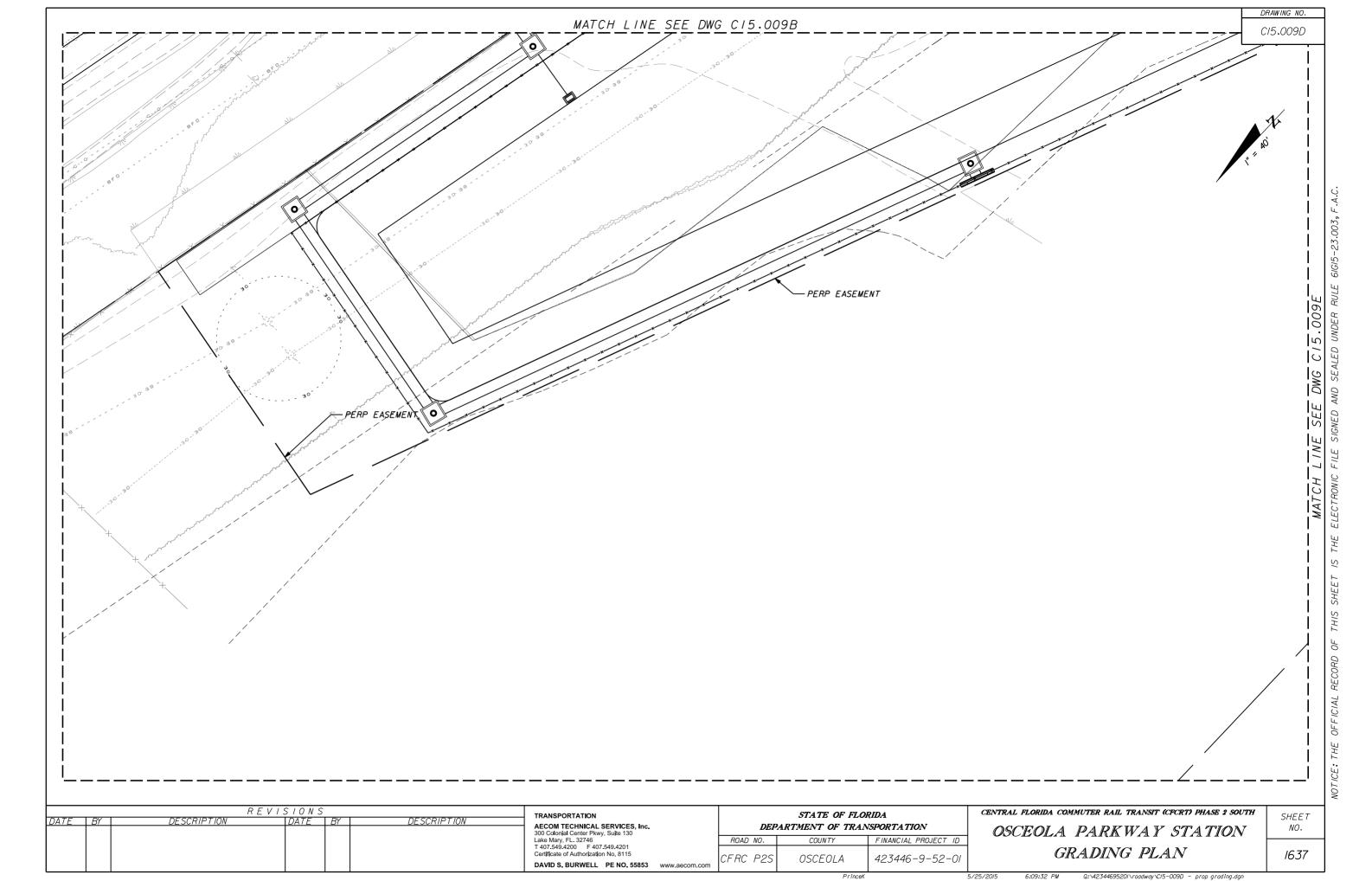
SHEET NO.

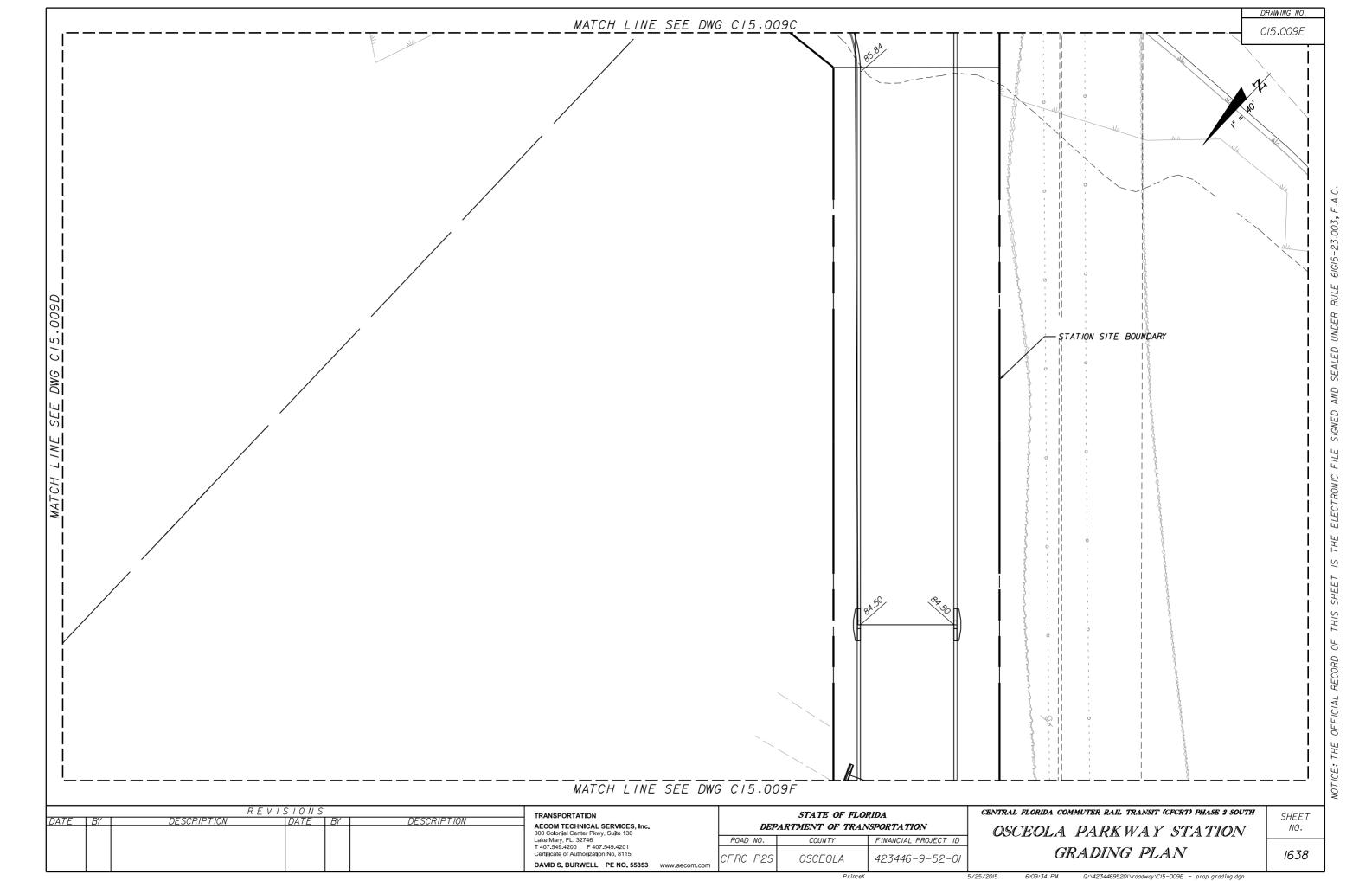


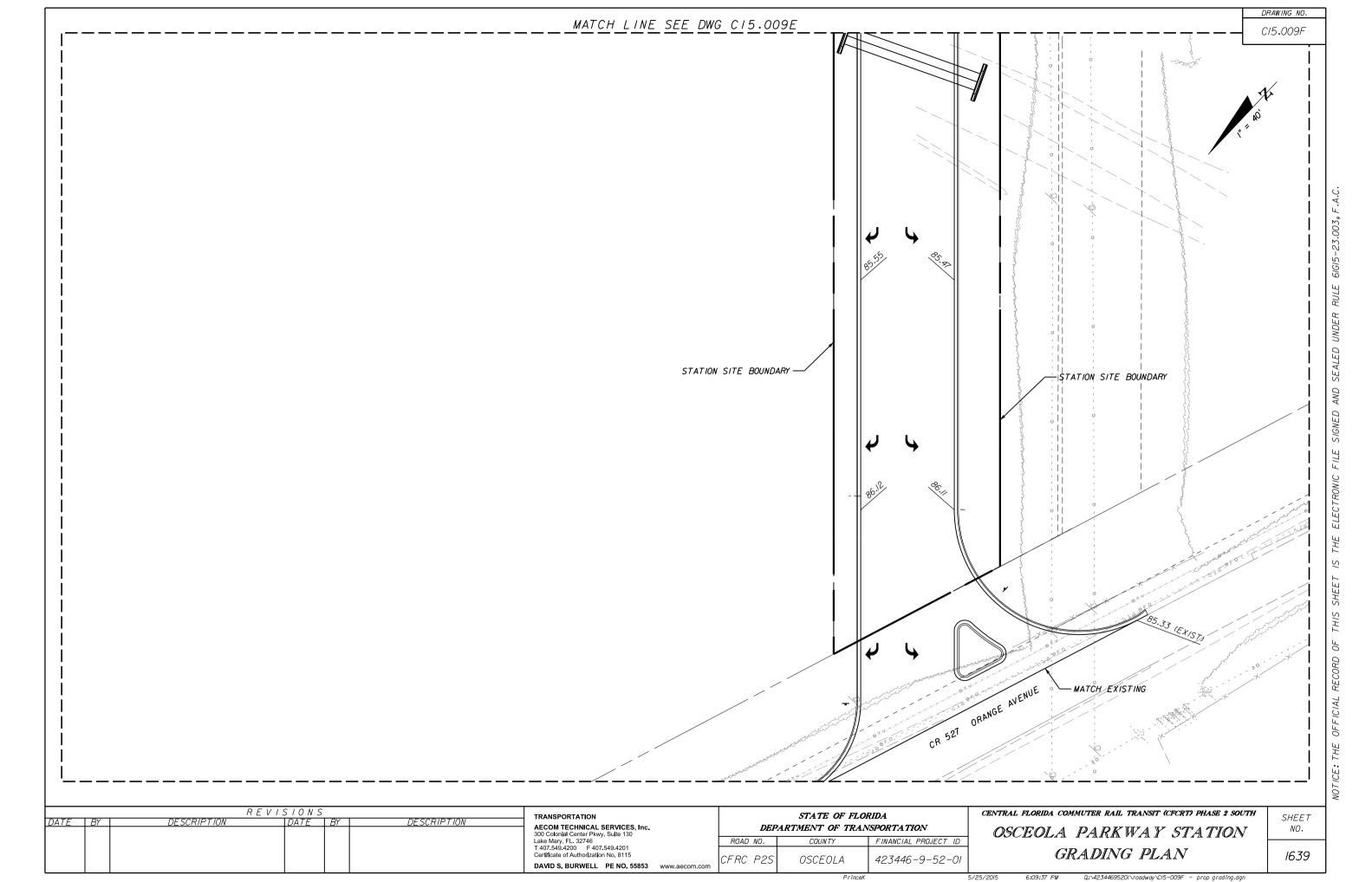


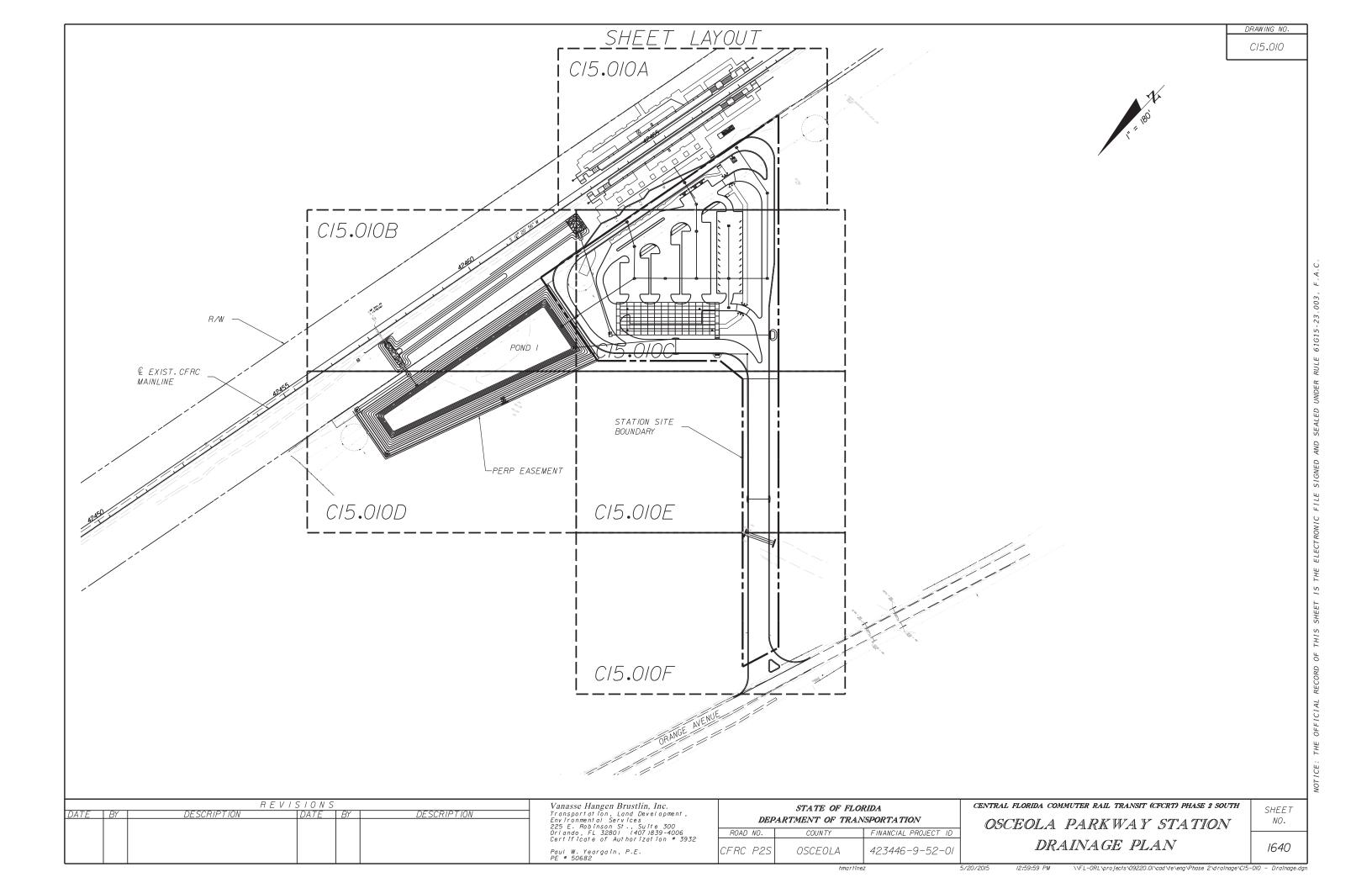


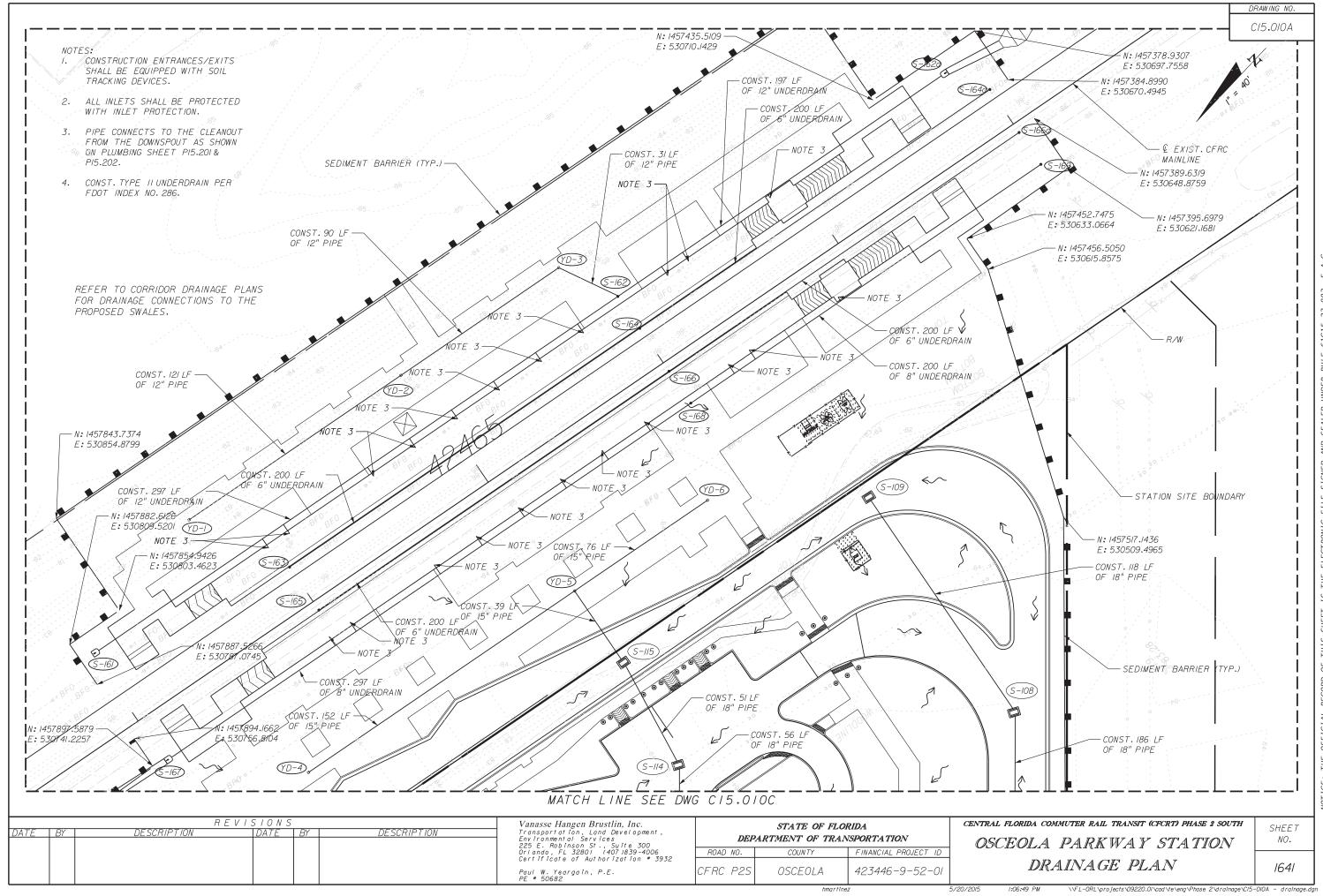


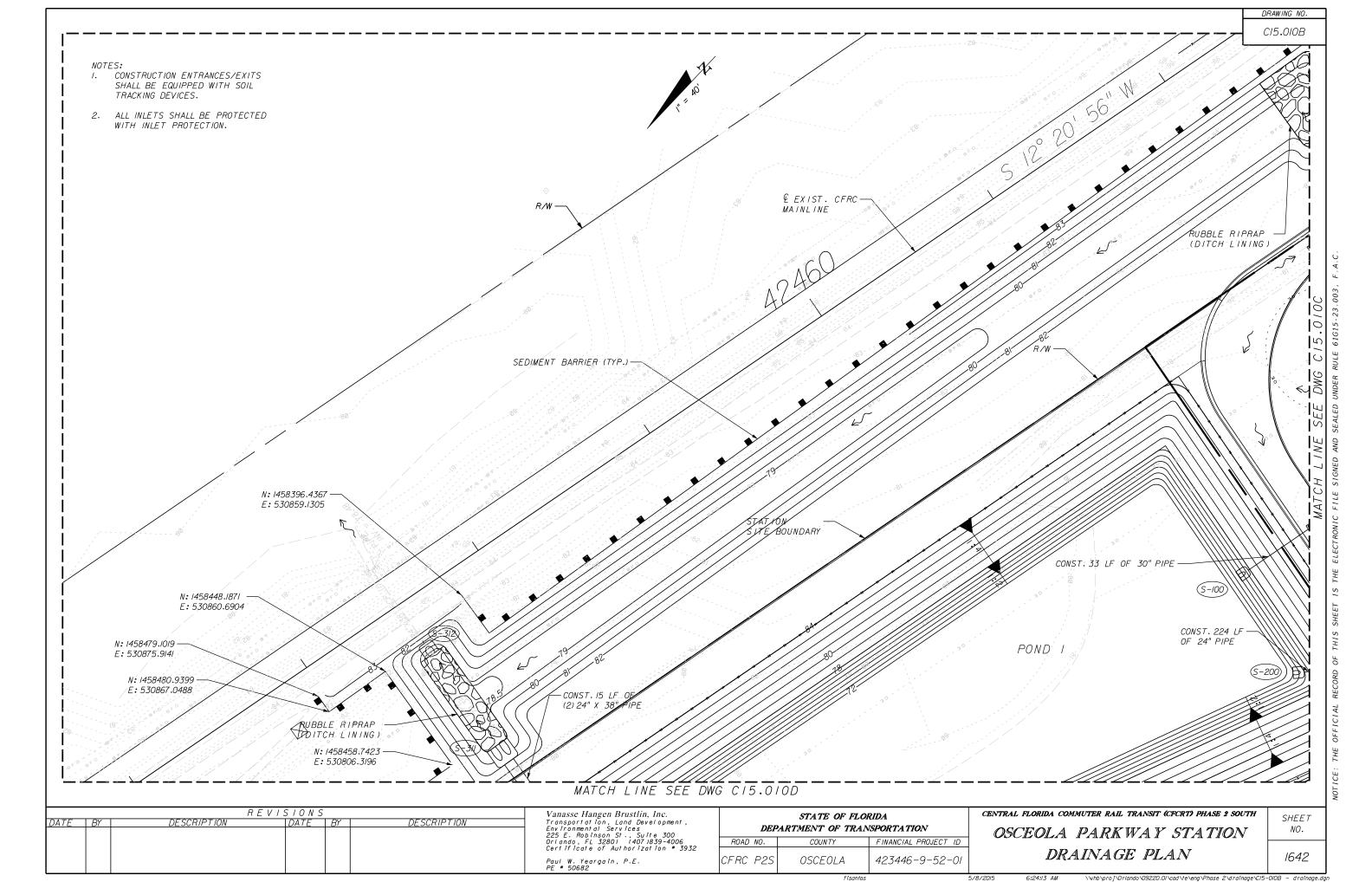


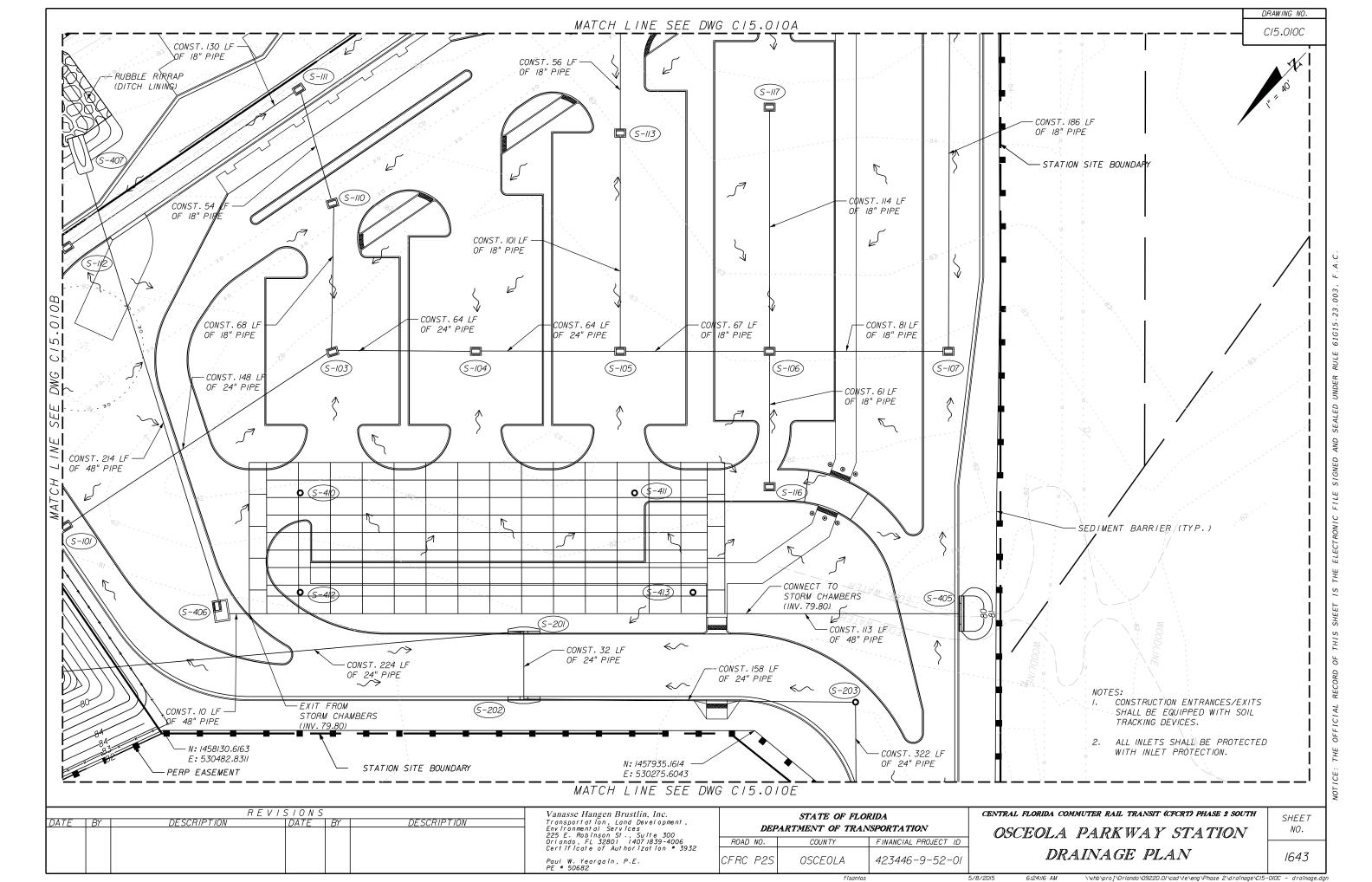


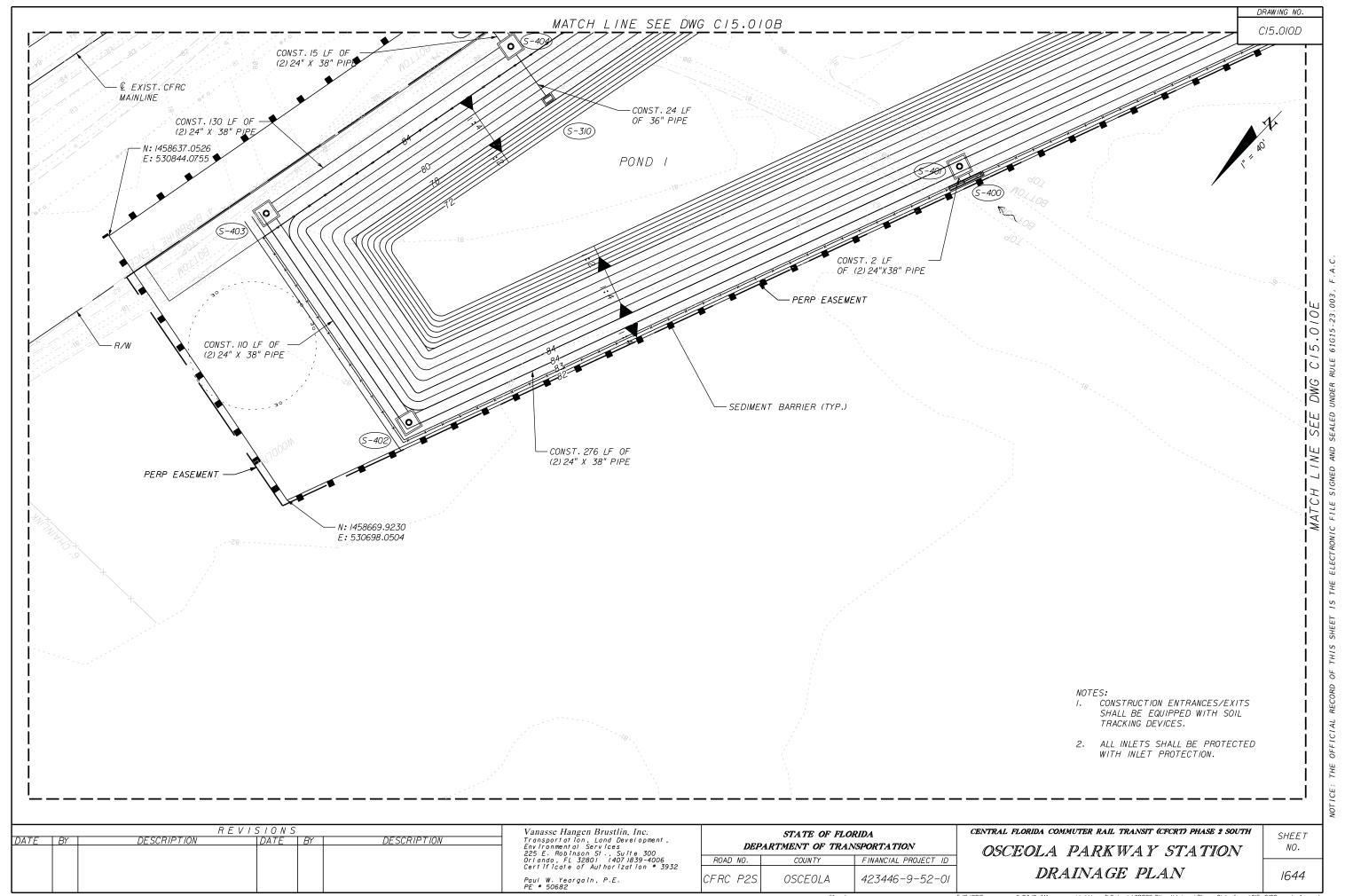


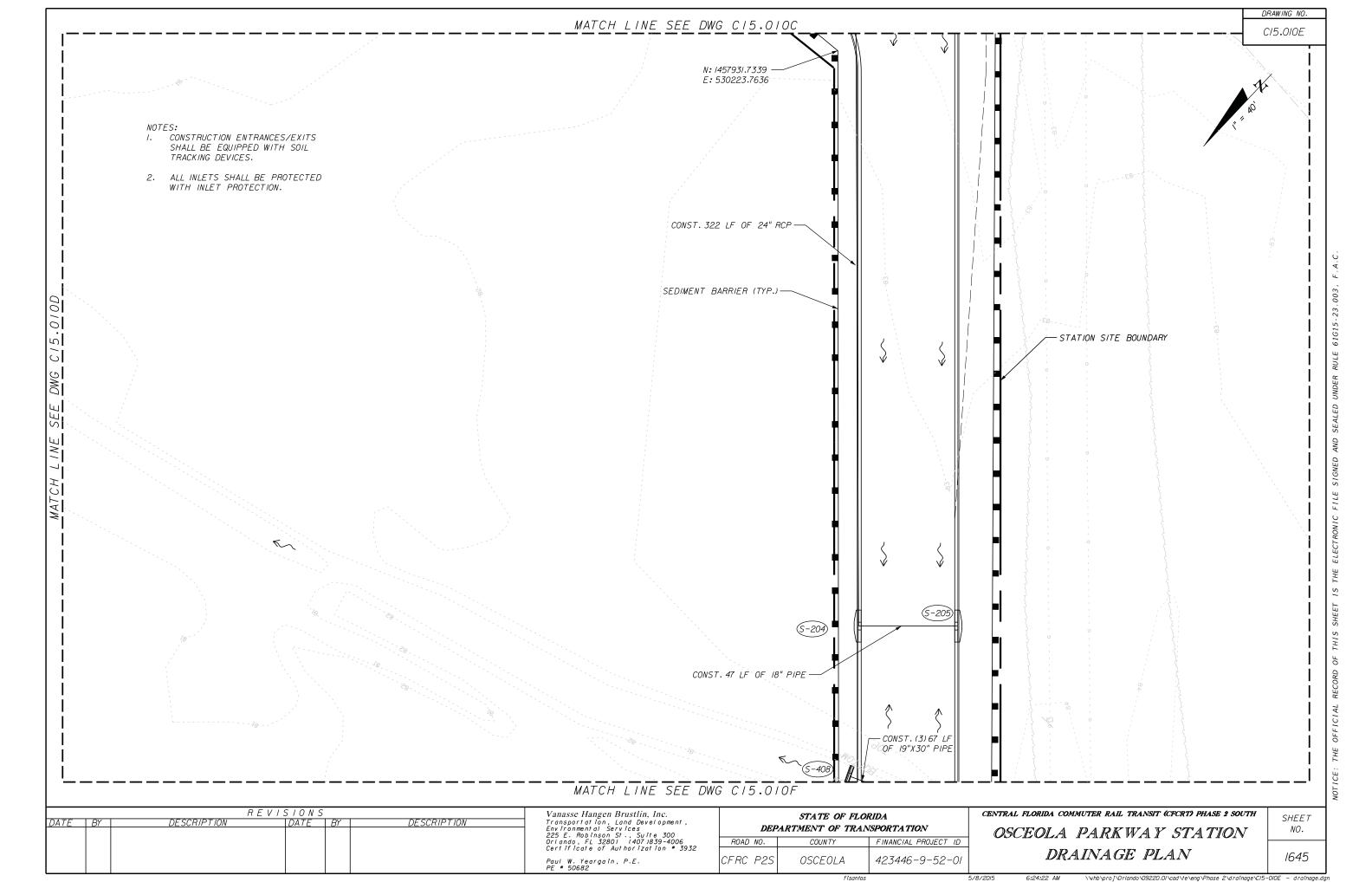


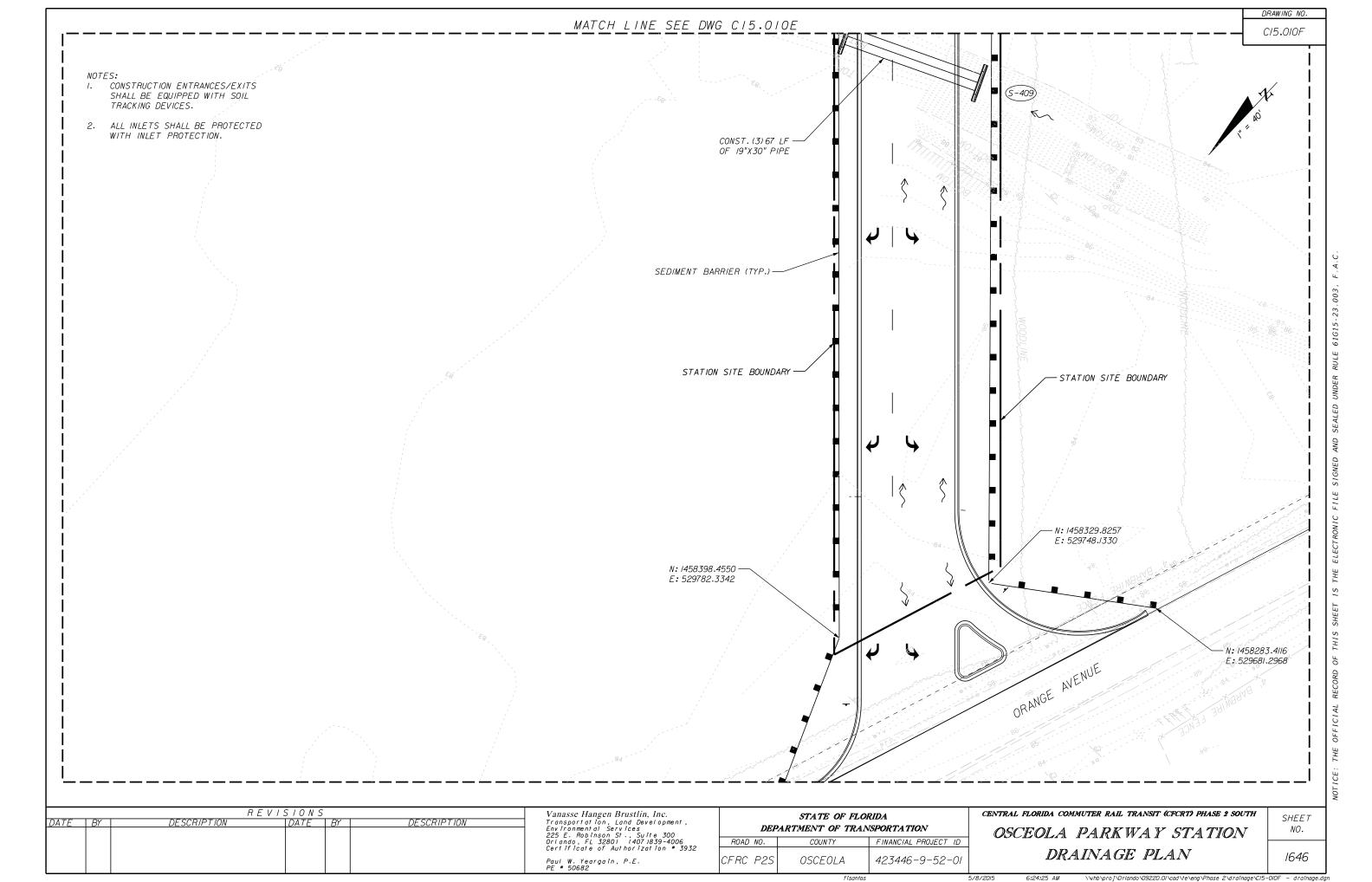


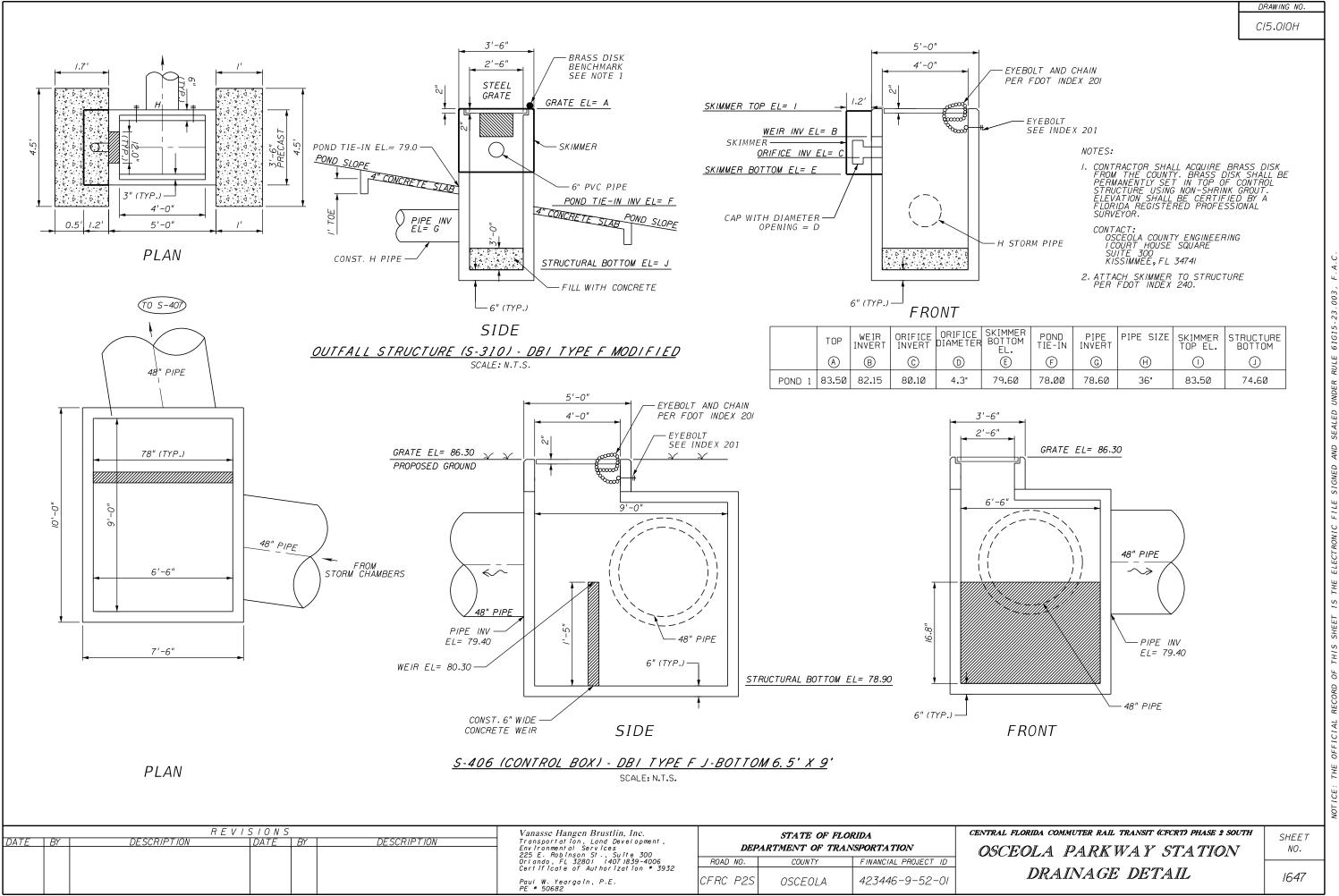






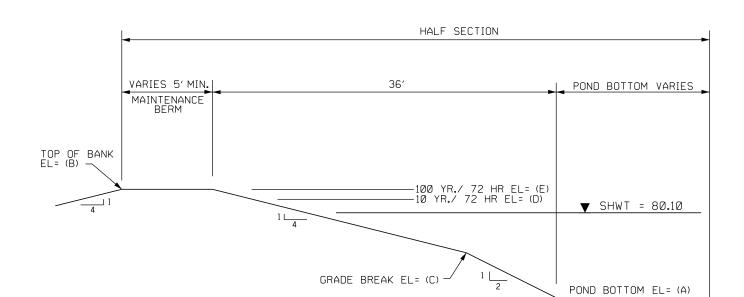






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10 YR/72HR DESIGN STAGE

82.46

100 YR/72 HR DESIGN STAGE

E

83.86

POND TABLE

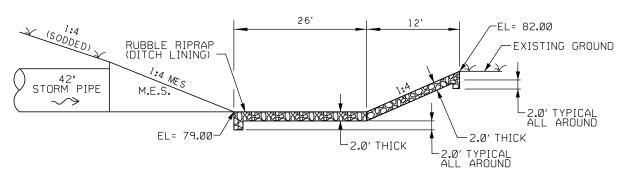
POND TOP OF GRADE BOTTOM BANK BREAK

84.0

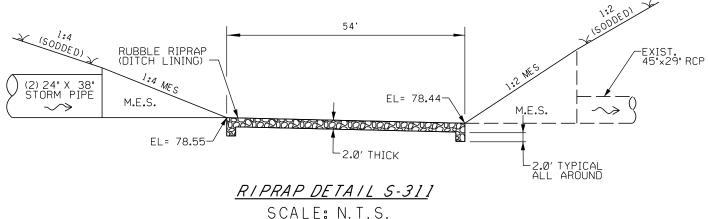
78.0

72.0

REVISIONS



RIPRAP DETAIL S-406 SCALE: N.T.S.



Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932
Paul W. Yeargain, P.E.
PE \* 50682

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

CFRC P2S OSCEOLA 423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

OSCEOLA PARKWAY STATION

DRAINAGE DETAIL

SHEET NO.

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5/8/2015

n/Phase 2/drainage/Ci5-0i0i - Drain L

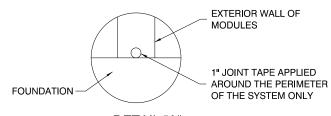
### STORM WATER DETENTION MODULE INSTALLATION SPECIFICATION

- MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS
  APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER. THE SHOP DRAWINGS SHALL
  INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE OPENINGS.
- MODULES SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-09, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
- A. SPECIFICATIONS ON THE ENGINEER'S DRAWINGS SHALL TAKE PRECEDENCE.
- B. MODULES SHALL BE PLACED ON LEVEL FOUNDATION (SEE SHEET 3.1) WITH A 1'-0' OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR.
- C. THE MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4\*. IF THE SPACE EXCEEDS 3/4\*, THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
- D. THE PERIMETER HORIZONTAL JOINT OF THE MODULES SHALL BE SEALED TO THE FOUNDATION WITH PREFORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891-09, 8.8 AND 8.12. SEE DETAIL "A".
- E. ALL EXTERIOR JOINTS BETWEEN ADJACENT MODULES SHALL BE SEALED WITH PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN BONDED TO A WOVEN HIGHLY PUNCTURE RESISTANT POLYMER WRAP CONFORMING TO ASTM C891-09 THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
  - 1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
  - A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE
    THE ADHESIVE TAPE (BUTYL SIDE DOWN) AROUND THE STRUCTURE, REMOVING
    THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE
    MODULE SURFACE WHEN APPLYING.

F. THE FILL PLACED AROUND THE MODULE UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR OTHERWISE SPECIFIED BY ENGINEER. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES BOUNDING OR WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGE ACTION. (REFERENCE ARTICLE 502.10 I.D.O.T. S.S.R.B.C.) CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL SHALL BE CLEAN, CRUSHED, ANGULAR NO.5 (AASHTO M43) AGGREGATE.

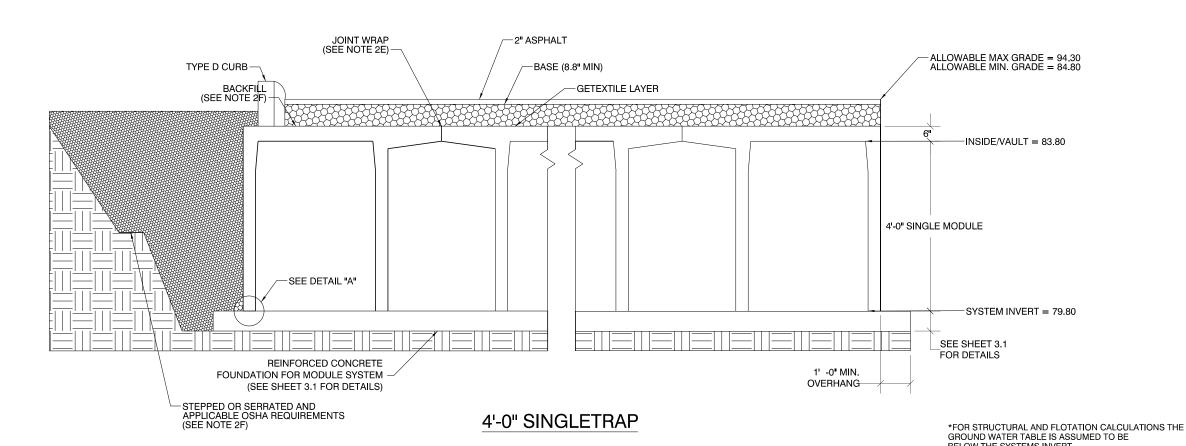
### STORM WATER DETENTION MODULE SPECIFICATION

- 1. TOTAL COVER: MIN. .50' MAX. 10.00'
- CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 3000 PSF.
- 3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO MODULE INSTALLATION.
- 4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW THE SYSTEMS INVERT.
- FOR STRUCTURAL CALCULATIONS THE SOIL DENSITY IS ASSUMED TO BE 120 PCF.
   FOR FLOTATION CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW THE SYSTEMS INVERT.
- MODULES ARE NOT WATERTIGHT, WATERTIGHT APPLICATION TO BE PROVIDED BY OTHERS.



DETAIL "A"

JOINT TAPE INSTALLATION



DATE BY DESCRIPTION DATE BY DESCRIPTION

Vanasse Hangen Brustlin, Inc.
Transport at ion. Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932
Paul W. Yeargain, P.E.
PE \* 50682

 STATE OF FLORIDA

 DEPARTMENT OF TRANSPORTATION

 ROAD NO.
 COUNTY
 FINANCIAL PROJECT ID

 CFRC P2S
 OSCEOLA
 423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

OSCEOLA PARKWAY STATION

DRAINAGE DETAIL

SHEET NO.

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### **RECOMMENDED** ACCESS OPENING SPECIFICATION

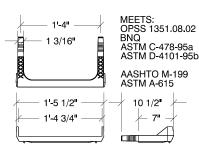
- TYPICAL ACCESS OPENINGS FOR THE MODULE SYSTEM ARE 2'-0' IN DIAMETER. ALL OPENINGS MUST RETAIN AT LEAST 1'-0' OF CLEARANCE IN ALL DIRECTIONS FROM THE EDGE OF THE MODULE UNITS.
- 2. PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PS3-PFC (SEE DETAIL TO THE RIGHT) ARE PROVIDED INSIDE ANY UNIT WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE UNIT IS TO BE PLACED A DISTANCE OF 1-0" FROM THE INSIDE EDGE OF THE MODULE UNITS. ALL ENSUING STEPS SHALL BE PLACED WITH A MAXIMUM DISTANCE OF 1-4" BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE UNIT.
- 3. MODULE LIFTING INSERTS MAY BE RELOCATED TO COINCIDE WITH THE ACCESS OPENING OR THE CENTER OF GRAVITY OF THE UNIT AS NEEDED.
- 4. MODULE ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
- 5. ACCESS OPENINGS SHOULD BE LOCATED IN ORDER MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS.
- 6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE.

### **RECOMMENDED** PIPE OPENING SPECIFICATION

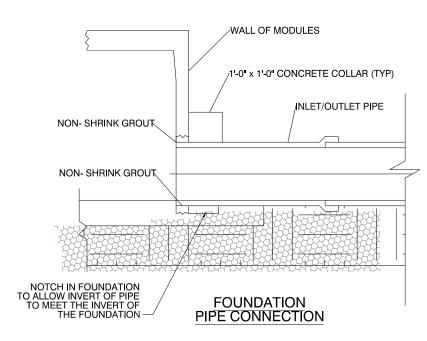
- 1. PIPE OPENINGS SHALL MAINTAIN A MINIMUM 1'-0" OF CLEARANCE FROM A VERTICAL EDGE OF THE MODULE UNIT.
- 2 MAXIMUM OPENING SIZE TO BE DETERMINED BY UNIT HEIGHT. PREFERRED OPENING SIZE
- 3. CONNECTING PIPES SHALL BE INSTALLED WITH A 1<sup>1</sup>-0" CONCRETE COLLAR, AND A AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH, AS SHOWN. A STRUCTURAL GRADE CONCRETE OR GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
- 4. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH

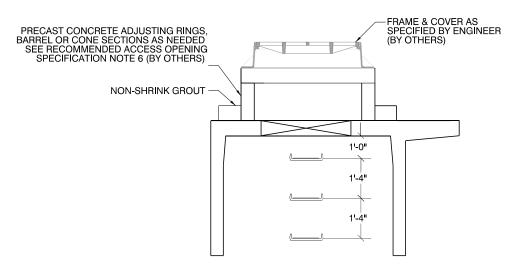
### RECOMMENDED PIPE **INSTALLATION INSTRUCTIONS**

- 1. CLEAN AND LIGHTLY LUBRICATE ALL OF PIPE TO BE INSERTED INTO MODULES.
- 2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
- 3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING



STEP DETAIL





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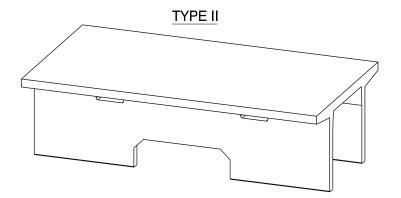
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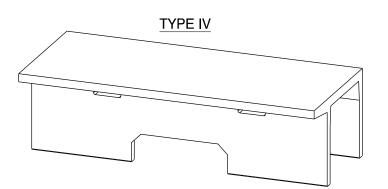
nasse Hangen Brustlin, Inc. massertation, Land Development, vironmental Services 5 E. Robinson St., Suite 300 lando, FL 32801 (407)839-4006 rtificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

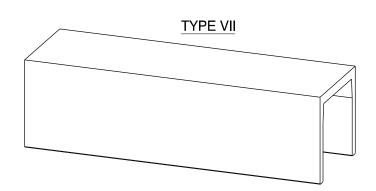
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S OSCEOLA 423446-9-52-01

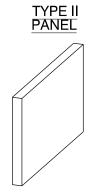
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

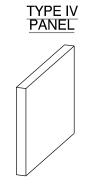
SHEET NO.

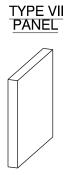












### NOTES:

OPENING LOCATIONS AND SHAPES MAY VARY. SP - INDICATES A UNIT WITH MODIFICATIONS. P - INDICATES A UNIT WITH A PANEL ATTACHMENT. POCKET WINDOW OPENINGS ARE OPTIONAL.

	$R \ E \ V \ I \ S \ I \ O \ N \ S$										
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
1				1							

Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE # 50682

DEF	STATE OF FLOI PARTMENT OF TRAN	
ROAD NO.	COUNTY	FINANCIAL PROJECT IL
CERC P2S	OSCEOLA	423446-9-52-0

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

SHEET NO.

DRAWING NO. C15.010M

FOUNDATION DETAILS

IV

		SEE SHEET	Γ 1.0													
1		IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	
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### DESIGN CRITERIA

ALLOWABLE MAX GRADE = 94.30 ALLOWABLE MIN GRADE = 84.80 INSIDE HEIGHT ELEVATION = 83.80 SYSTEM INVERT = 79.80 MODULE VOLUME = 59,218.31 C.F. / 1.36 A.F.

- DIMENSION OF MODULE SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH UNIT.
   ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
   SEE SHEET 2 FOR INSTALLATION SPECIFICATIONS.
   SP INDICATES A UNIT WITH MODIFICATIONS.
   P INDICATES A UNIT WITH A PANEL ATTACHMENT

# **DETAIL LAYOUT**

### SYSTEM DIMENSIONS

L= 228 FT - 10.25 IN

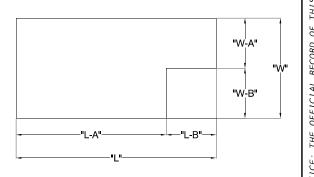
W = 72 FT - 8 IN

L-A=0

L-B=0

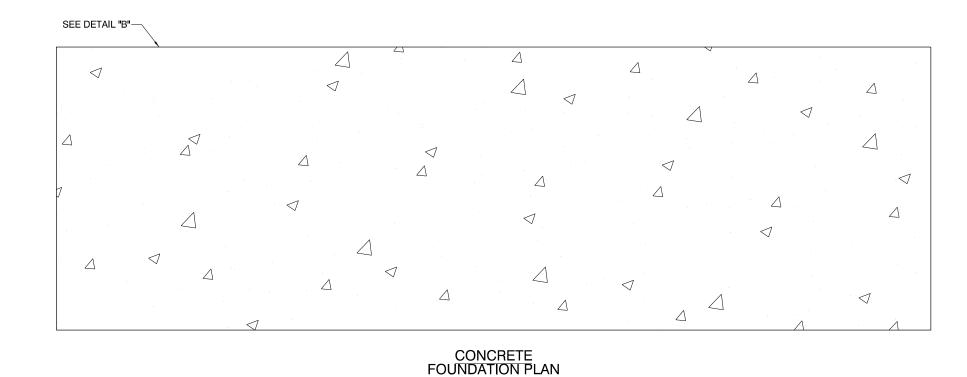
W-A=0

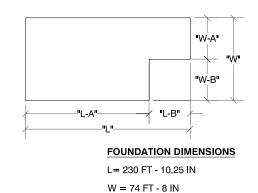
W-B=0



		R E	EVISIONS		Vanasse Hangen Brustlin, Inc.		STATE OF FL	LORIDA	CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH	CHEET
DATE	BY	DESCRIPTION	DATE BY	DESCRIPTION	Transportation, Land Development, Environmental Services 225 E. Robinson St Suite 300	DEP	ARTMENT OF TR		OSCEOLA PARKWAY STATION	NO.
					Orlando, Fl. 32801 (407)839-4006 Certificate of Authorization * 3932	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DRAINAGE DETAIL	
					Paul W. Yeargain, P.E.	CFRC P2S	OSCEOLA	423446-9-52-01		1652

\whb\proj\Orlando\O9220.0I\cad\te\eng\Phase 2\drainage\Ci5-OIOM-Drainage Detail.dgn





L-A = 0

L-B = 0W-A = 0

W-B=0

### TOP OF FOUNDATION-REBAR PLACED IN CENTER OF SLAB SLAB THICKNESS DETAIL "B"

STORM WATER DETENTION MODULE FOUNDATION

### NOTES:

- CONCRETE STRENGTH @ 28 DAYS, 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.

  NET ALLOWABLE SOIL PRESSURE GREATER THAN OR EQUAL TO 3000 PSF.

  SOIL CONDITIONS TO BE VERIFIED ON SITE BY CONTRACTOR.

  1'-0" OVERHANG AROUND OUTSIDE OF SYSTEM.

  REBAR: ASTM A-615 GRADE 60. BLACK BAR.

  DIMENSION OF FOUNDATION MUST HAVE 1'-0" OVERHANG BEYOND EXTERNAL FACE OF UNITS.

  DIMENSION OF STORM WATER DETENTION MODULE ALLOW FOR A 3/4" GAP BETWEEN EACH UNIT.

  ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY CONTRACTOR,

  SEE C15.010J AND C15.010K FOR INSTALLATION SPECIFICATIONS.

  THE CONTROL JOINTS CAN BE 16'-0" TO 24'-0" MAX APART.

	MAXIMUM SYSTEM COVER	SLAB THICKNESS	CONCRETE STRENGTH	REINFORCEMENT (BOTH DIRECTIONS)
Ī	6 <b>"</b> - 1'-0"	8"	4000 psi	#4 @ 18" o.c.
	1'-1" - 2'-0"	8"	4000 psi	#4 @ 16" o.c.
Γ	2'-1" - 3'-0"	8"	4000 psi	#4 @ 12" o.c.
Γ	3'-1" - 4'-0"	8"	4000 psi	#4 @ 12" o.c.
Γ	4'-1" - 5'-0"	8"	4000 psi	#5 @ 18" o.c.
Γ	5'-1" - 6'-0"	8"	4000 psi	#5 @ 16" o.c.
Γ	6'-1 <b>"</b> - 7'-0 <b>"</b>	8"	4000 psi	#5 @ 16" o.c.
Ī	7'-1" - 8'-0 <b>"</b>	7'-1" - 8'-0" 9"		#5 @ 12" o.c.
ſ	8'-1" - 9'-0" 10"		4000 psi	#5 @ 12" o.c.
Γ	9'-1" - 10'-0"	10"	4500 psi	#5 @ 12" o.c.

		R E V I .	SIONS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

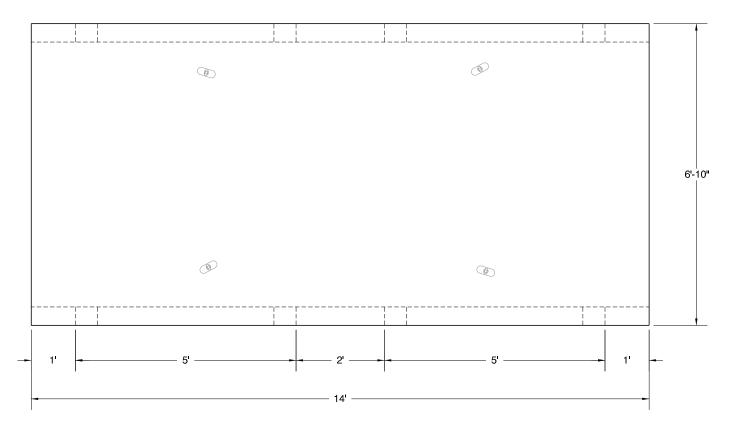
Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. FINANCIAL PROJECT ID COUNTY OSCEOLA CFRC P2S 423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

SHEET NO.

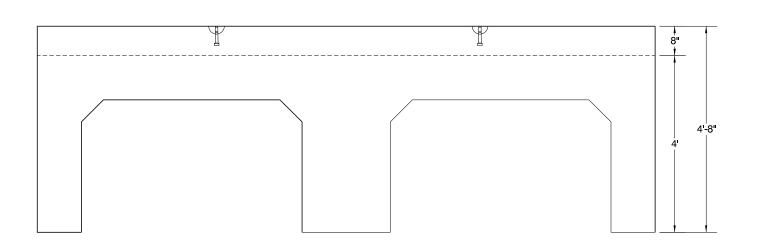


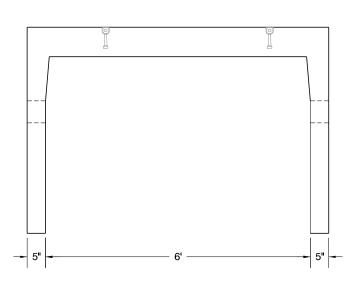


# TYPE I UNITS

UNIT HEIGHT (in.)	CUBIC STORAGE (C.F.)	WEIGHT (lbs.)
48	359.5	13055

# **PLAN VIEW**





# **ELEVATION VIEW**

REVISIONS DATE BY

# Vanasse Hangen Brustlin, Inc. Transport of ion, Land Development,

Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006
Cert if icate of Authorization # 3932
Paul W. Yeargain, P.E. PE * 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION								
ROAD NO.	ROAD NO. COUNTY FINANCIAL PROJECT							

OSCEOLA

CFRC P2S

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

OSCEOLA PARKWAY STATION

DRAINAGE DETAIL

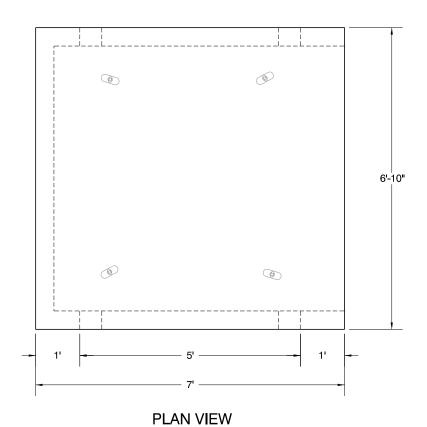
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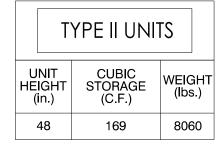
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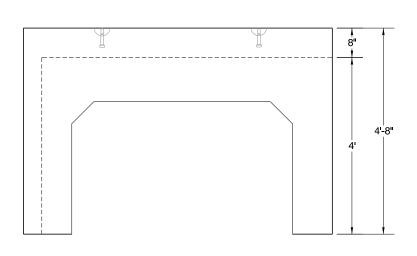
SIDE VIEW

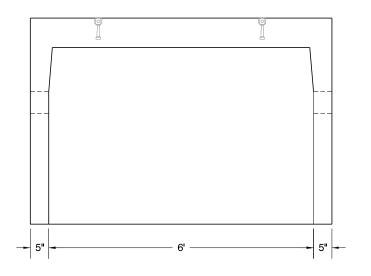
5 6:2

CI5.010P









**ELEVATION VIEW** 

SIDE VIEW

		R E	VISIONS			Van
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Van Tran Envi
						Cert Paul

Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932
Paul W. Yeargain, P.E.
PE \* 50682

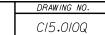
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID							
CERC P2S	OSCEOLA	123446-9-52-01							

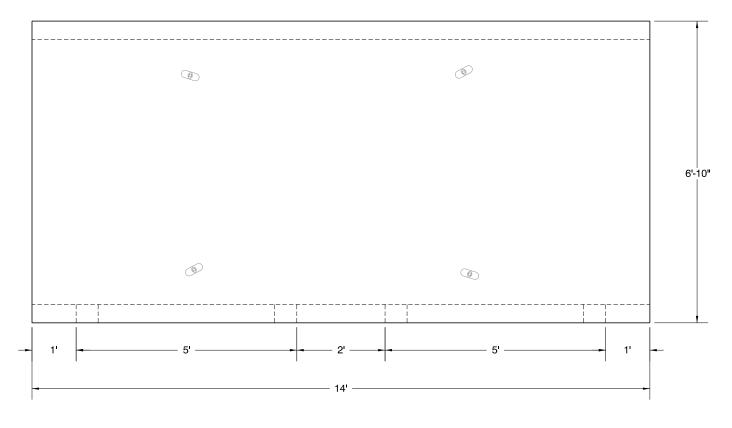
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

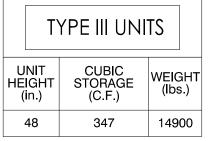
OSCEOLA PARKWAY STATION

DRAINAGE DETAIL

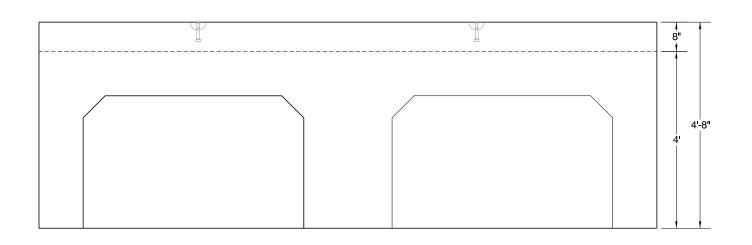
SHEET NO.

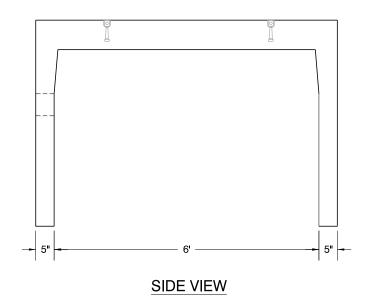






# **PLAN VIEW**





**ELEVATION VIEW** 

15
BY DESCRIPTION

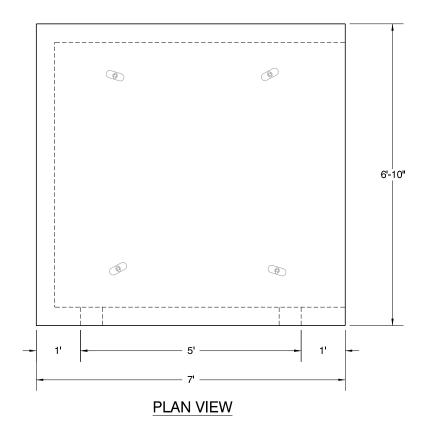
Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE # 50682

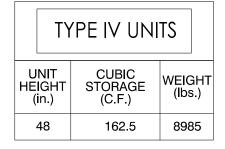
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S OSCEOLA 423446-9-52-01

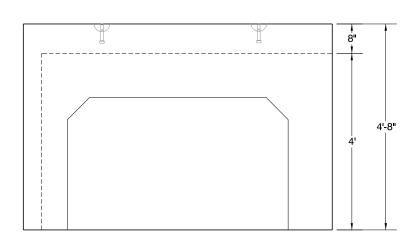
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

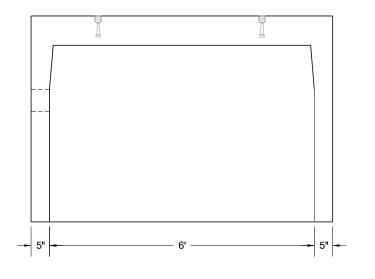
SHEET NO.

DRAWING NO. C15.010R









ELEVATION VIEW INSIDE WALL

SIDE VIEW

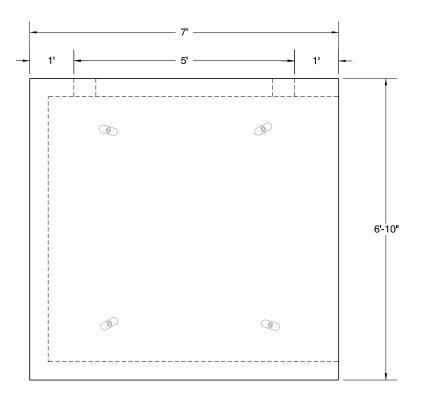
		R E V	/ 1 S 1 O N S		Vanasse Hangen Brustlin, Inc.
DATE	BY	DESCRIPTION	DATE BY	DESCRIPTION	Transportation. Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization * 393, Paul W. Yeargain, P.E.
					PE # 50682

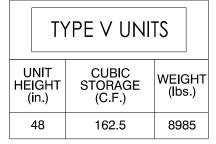
Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Paul W. Yeargain, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID							
CERC P2S	OSCEOLA	423446-9-52-01							

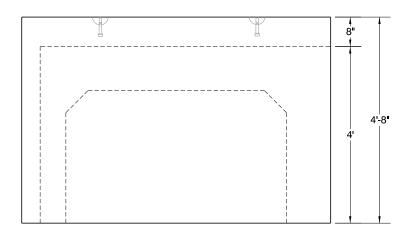
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

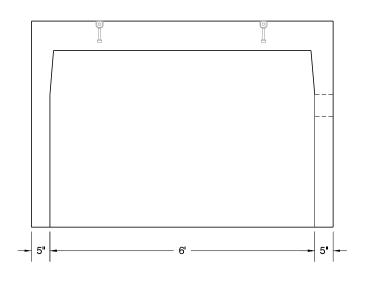
SHEET NO. 1657





# **PLAN VIEW**





ELEVATION VIEW OUTSIDE WALL

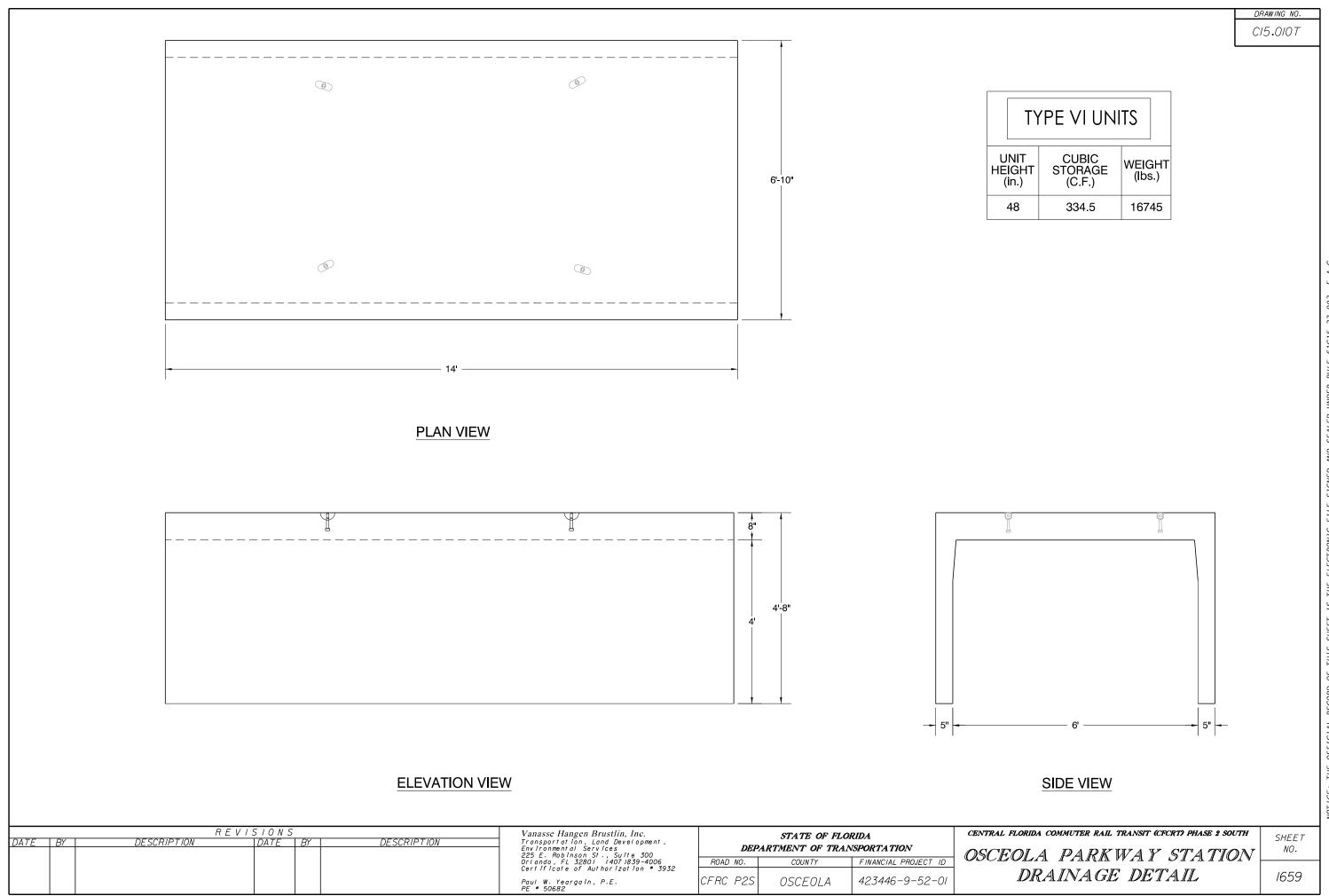
SIDE VIEW

		REVISIONS		Vanasse Hangen Brustlin, Inc.
DATE B	DESCRIPTION	DATE BY	DESCRIPTION	Transportation, Land Developmen Environmental Services
				225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-400 Certificate of Authorization *
				Paul W. Yeargain, P.E. PE * 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S OSCEOLA 423446-9-52-01

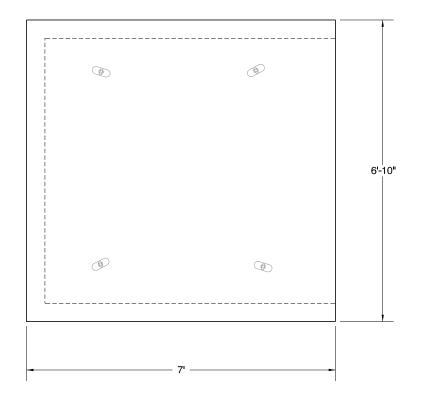
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

SHEET NO. 1658



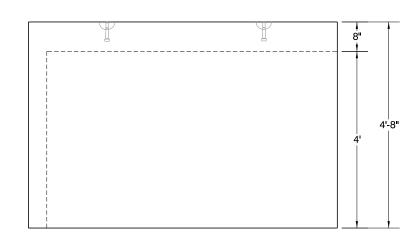
i:45 AM \whb\proj\Orlando\09220.0I\cad\te\eng\Phase 2\drainage\Cl5-0IOT-Drainage Detail

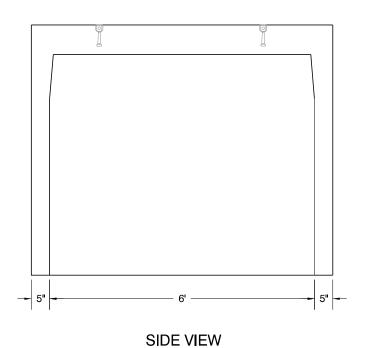
DRAWING NO. C15.010U



TYPE VII UNITS UNIT HEIGHT (in.) CUBIC STORAGE (C.F.) WEIGHT (lbs.) 156.5 9905

### PLAN VIEW





# **ELEVATION VIEW**

DESCRIPTION

REVISIONS DATE BY

Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization * 3932
Paul W. Yeargain, P.E. PE * 50682

DE	STATE OF FLO PARTMENT OF TRAN	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CFRC P2S	OSCEOLA	423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE DETAIL

SHEET NO.

CI5.OIOV

S-108) N: 1457600.1400 E: 530463.4358 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 85.50 FL. 80.80 (E) FL. 80.80 (NW)

(S-117) N: 1457712.1646 E: 530476.1228 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 84.90 FL. 81.00 (NW)

S-312 N: 1458425.9327 E: 530854.2031 CONST. SINGLE MES (1:2) (29" x 45") INDEX NO. 272 FL EL. 78.44

N: 1457738.4650 E: 530332.8861 CONST. DBI TYPE F INDEX\_NO. 201, 233 TOP EL. 85.00 FL. 80.50 (NE) FL. 80.50 (SE)

(S-116) N: 1457844.9204 E: 530350.8292 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 85.40 FL. 81.00 (SW)

(5-107)

(S-311) CONST. MODIFIED TYPE F SEE DRAINAGE DETAIL SHEET INDEX NO. 201, 233 TOP EL. 83.50

N: 1458439.2200 E: 530786.3753 CONST. DOUBLE MES (1:4)(24" X 38") INDEX NO. 272 FL EL. 78.55

(5-101) N: 1458091.1195 E: 530583.9936 CONST. DBI TYPE

INDEX NO. 201, 233 TOP EL. 83.30 FL. 74.95 (N) FL. 74.95 (S)

(5-110)

(S-20)

(S-401)

(5-409)

19" X 30"

HEADWALL

FL. 81.50

N: 1457890.1647

E: 530597.3454

N: 1457977.6214

E: 530388.1688

EOP EL. 84.50 FL. 73.20 (NE)

FL. 78.85 (NW)

N: 1458339.0885

E: 530575.8894

INDEX 200, 201

TOP EL. 84.00 FL. 79.45 (NW)

FL. 79.45 (NE)

N: 1458158.0114

E: 529916.2359

CONST. DOUBLE

INDEX NO. 250

CONST. MH TYPE J-8

(J-BOTTOM 6' X 8')

CONST. INLET TYPE P-6

INDEX NO. 200, 201, 210

CONST. DBI TYPE

INDEX NO. 201, 233 TOP EL. 84.50 FL. 75.30 (SE) FL. 75.30 (NW)

S-102) NOT USED

(5-111)

(S-202)

(5-402)

N: 1457861.4048

TOP EL. 86.00 FL. 75.40 (N)

FL. 75.40 (NW)

N: 1457999.4389

E: 530367.5776

EOP EL. 84.35

FL. 78.95 (SE)

FL. 78.95 (SW)

N: 1458604.1184

E: 530681.5138

INDEX 200, 201

TOP EL. 84.00

FL, 79,30 (SW)

FL. 79.30 (SE)

N: 1458002.0833

E: 530513.0428

CONST. MH TOP

TOP FL. 85.30

INDEX NO. 200, 201

TYPE P-8

(5-410)

CONST. MH TYPE J-8

(J-BOTTOM 8' X 8')

CONST. INLET TYPE P-6

INDEX NO. 200, 201, 210

E: 530646.8305

CONST. DBI TYPE F

INDEX NO. 201, 233

(5-103) N: 1457942.0746 E: 530548.2588 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 84.40 FL. 75.10 (N) FL. 75.10 (SE) FL. 81.05 (SW)

E: 530675.6939

FL. 75.60 (S)

N: 1457891.8458

E: 530249.6375

INDEX 200, 201 TOP EL. 86.19 FL. 79.20 (NW)

FL. 79.20 (NE)

N: 14588578,6969

(J-BUTTOM 6 A INDEX 200, 201 TOP EL. 84.00 FL. 79.25 (NW) FL. 79.25 (SW)

N: 1457891.6594

E: 530396.0243

CONST. MH TOP

TOP FL. 85.25

INDEX NO. 200, 201

TYPE P-8

E: 530797.6047 CONST. MH TYPE J-8

(J-BOTTOM 8' X 8')

CONST. MH TYPE P-8

(5-112)

**(**-203)

(S-403)

(S-411)

(S-113) N: 1457770.5559 N: 1457993.2022 E: 530519.8185 CONST. DBI TYPE CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 85.30

(\$-104)

N: 1457894.5848

TOP EL. 84.50 FL. 80.10 (NE)

FL. 80.10 (SW)

E: 530498.3039 CONST. DBI TYPE F INDEX NO. 201, 233

(S-114) N: 1457726.9886 E: 530561.6018 CONST. DBI TYPE INDEX NO. 201, 233 TOP EL. 85.00 FL. 81.50 (NW) FL. 81.50 (SE) INDEX NO. 201, 233 TOP EL. 85.10 FL. 81.60 (NW) FL. 81.60 (SE)

> C-205 N: 1458094.3130 E: 529992.9562 CONST. INLET TYPE P-6 INDEX NO. 200, 201, 210 EOP EL 84.50 FL 80.30 (NE)

(5-106)

(5-115)

S-310

<u>(S-406)</u>

N: 1457797.5734

FL. 80.80 (SE) FL. 80.90 (NW)

N: 1457709.5396

CONST. DBI TYPE F

INDEX NO. 201, 233 TOP EL. 85.70 FL. 81.70 (NW)

E: 530613.5721

FL. 81.70 (E)

N: 158448.7217

E: 530737.9961

FL. 79.40 (SE)

N: 1458069.2205

FL. 79.40 (SW)

N: 1458069.2205 E: 530504.7979 CONST. DBI TYPE F J-BOTTOM (6' X 9') INDEX NO. 201, 233 TOP EL. 86.30 FL. 79.40 (SE)

N: 145/79/.5/34 E: 530395.5148 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL. 84.90 FL. 80.35 (NE) FL. 80.35 (SW)

(5-405) N: 1457825.9833 E: 530241.8491 CONST. SINGLE 48" HEADWALL INDEX NO. 250 FL. 79.90

(5-413) N: 1457907.1525 E: 530342.7840

CONST. MH TOP TYPE P-8 INDEX NO. 200, 201 TOP FL. 86.30

(YD-6)

(5-105)

N: 1457846.8932 E: 530447.7720 CONST. DBI TYPE F INDEX NO. 201, 233 TOP EL 84.80

FL. 80.20 (NE)

FL. 80.20 (SE)

FL. 81.30 (SW)

(5-204) N: 1458125.1998 E: 530025.6825 CONST. INLET TYPE P-6
INDEX NO. 200, 201, 210

EOP EL. 84.50 FL. 80.20 (SW) FL. 79.70 (SE)

(5-404) N: 1458442.8321 E: 530767.8863 CONST. MH TYPF J-8 (J-BOTTOM 8' X 8') (J-BUTTOM 8 X INDEX 200, 201 TOP EL. 84.00 FL. 79.15 (NE) FL. 78.60 (SE) FL. 78.60 (NW)

(5-412) N: 1458036.8680 E: 530480.2431 CONST. MH TOP TYPE P-8 INDEX NO. 200, 201 TOP FL. 86.00

(YD-5) N: 1457700.7868 E: 530653.5519 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE TOP EL. FLUSH WITH SURFACE FL. 84.00 (N)

FL. 84.00 (S) FL. 84.00 (W)

N: 1457626.5451 E: 530637.2982 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE TOP EL. 87.10 FL. 84.50 (N)

E: 529979.0078 CONST. DOUBLE 19" X 30" HEADWALL INDEX NO. 250 FL. 81.50

(5-100)

(5-109)

(S-200)

(5-400)

N: 1458129.6595

E: 530592.5018

INDEX NO. 272

N: 1457573.2947

E: 530583.0/50

TOP EL. 86.0Ó

N: 1458143.7859

E: 530537.8983

FL EL. 72.95

N: 1458341.9269

E: 530568.7675 CONST. DOUBLE 24" X 38"

INDEX NO. 250

N: 1458185.6400

HEADWALL

FL. 79.50

(5-408)

(5-161)

DATE BY

CONST. MES (1:2)(24") INDEX NO. 272

FL. 81.00 (W)

CONST. DBI TYPE F

INDEX NO. 201, 233

FL EL. 74.90

CONST. MES (1:2) (30")

(YD-I) N: 1457801.2017 N: 1457683.0012 E: 530808.8730 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE E: 530782.9955 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE TOP EL. FLUSH TOP EL. FLUSH WITH SURFACE WITH SURFACE FL. 82.82 (N) FL. 82.82 (S) FL. 82.45 (N) FL. 82.45 (S)

YD-3N: 1457594.9471 E: 530763.7179 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE TOP EL. FLUSH WITH SURFACE FL. 82.18 (N) FL. 82.18 (S)

(YD-4) N: 1457849.2700 W: H37164-2700 E: 530686.0592 CONST. 12" YARD DRAIN W/ PEDESTRIAN GRATE TOP EL. 87.00 FL. 84.50 (S)

(\$-1620) N: 1457401.8089 E: 530693.8801 CONST. UNDERDRAIN FES (12") FDOT INDEX NO. 270 FL. 82.30

(S-163) N: 1457784.9091 E: 530759.1008 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 81.70

(S-164) N: 1457589.5364 E: 530716.3281 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.00

(\$-1640) N: 1457394.1633 E: 530673.5552 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL MATCH PROPOSED GRADE FL. 82.30

N: 1457878.6988 E: 530798.2857 CONST. UNDERDRAIN FES (12") FDOT INDEX NO. 270 FL. 81.65

N: 1457585.6400 E: 530734.1260 CONST. UNDERDRAIN CLEANOUT (12") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.10 (E) FL. 82.10 (S)

> Vanasse Hangen Brustlin, Inc. Paul W. Yeargain, P.E. PE \* 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S 423446-9-52-01 OSCEOLA

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE STRUCTURES SUMMARY

1661

SHEET

NO.

(5-407) N: 1457959.3166 E: 530696.3412 CONST. MES (1:4) (48") INDEX NO. 272 FL EL. 79.25

REVISIONS

Transportation, Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization \* 3932

DRAWING NO. C15.010W

(5-165)

N: 1457790.1616 E: 530735.1090 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 287 TOP EL. MATCH PROPOSED GRADE FL. 81.70

<u>(S-166)</u> N: 1457594.7889 E: 530692.3363 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.00

(S-166a) N: 1457399.4158 E: 530649.5634 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.30 (S-167) N: 1457891.7434 E: 530738.6967 CONST. UNDERDRAIN FES (8") FDOT INDEX NO. 287 FL. 81.65 N: 1457598.6855 E: 530674.5378 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.00

N: 1457403.3124 E: 530631.7649 CONST. UNDERDRAIN CLEANOUT (8") FDOT INDEX NO. 286 TOP EL. MATCH PROPOSED GRADE FL. 82.30

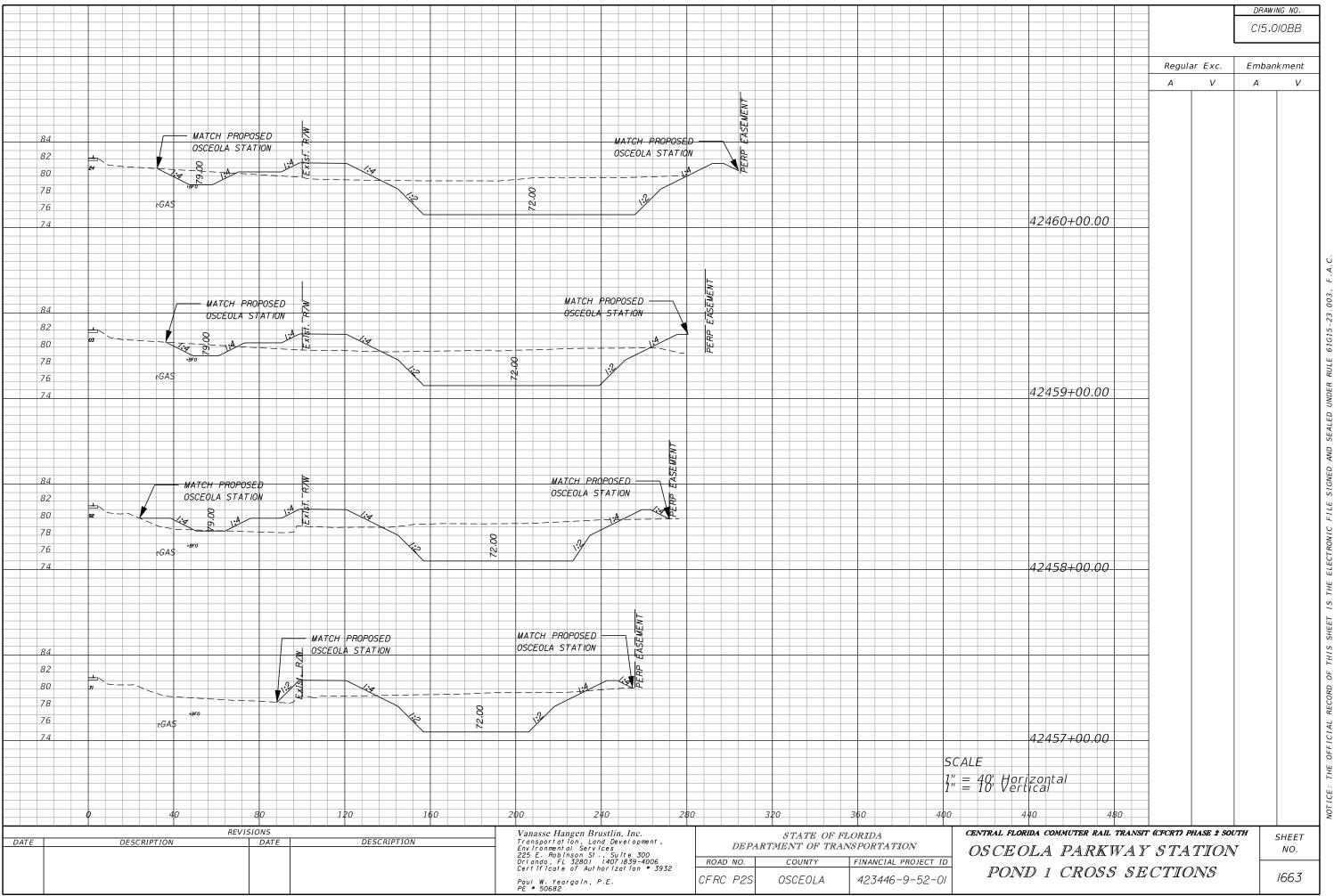
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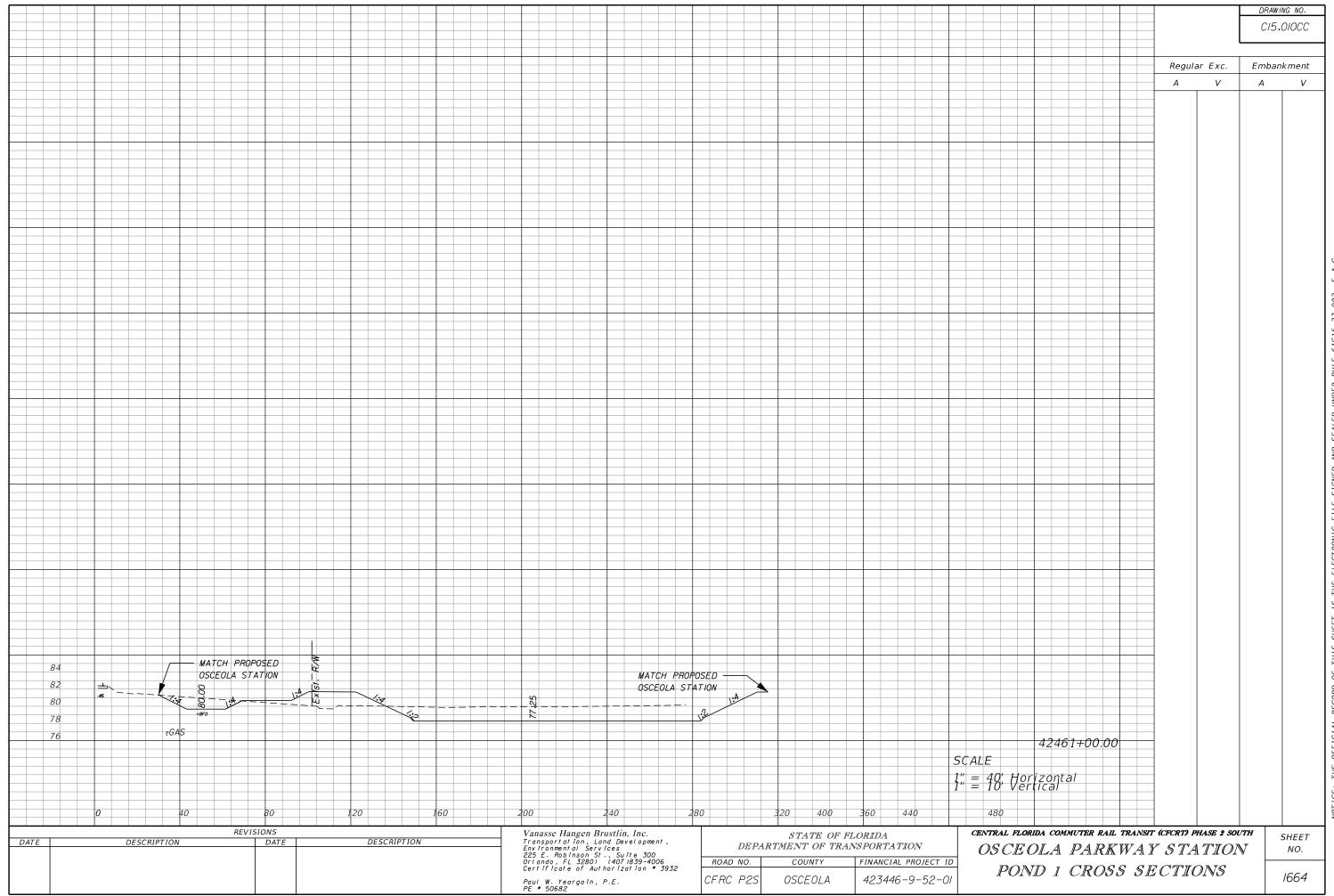
Vanasse Hangen Brustlin, Inc.
Transportation, Land Development,
Environmental Services
225 E. Robinson St., Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE # 50682

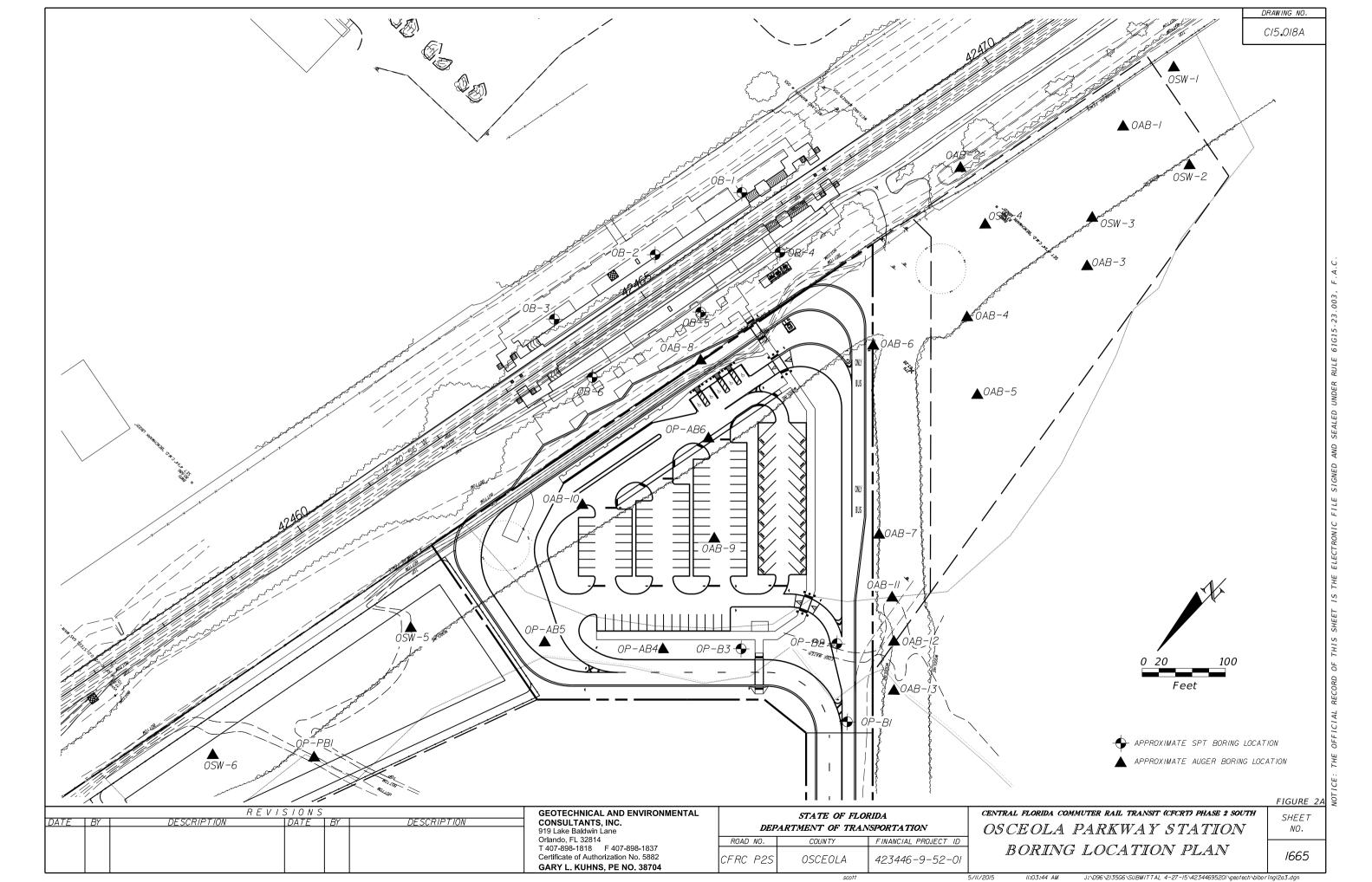
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S 423446-9-52-01 OSCEOLA

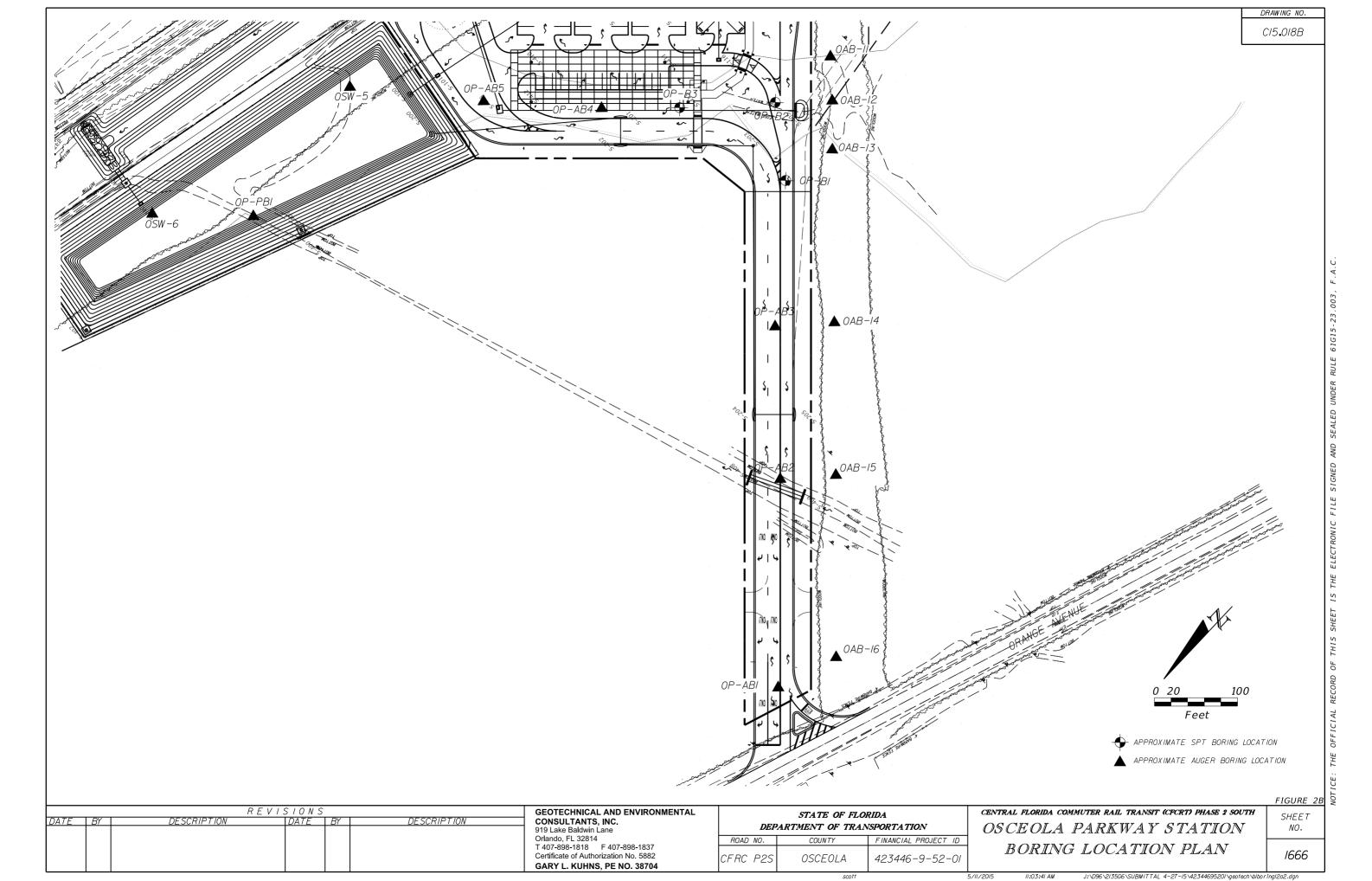
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION DRAINAGE STRUCTURES SUMMARY SHEET NO. 1662

\whb\proj\Orlando\O9220.0I\cad\te\eng\Phase 2\drainage\Cl5-0IOW - Drain Struct.dgn









STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

MATERIALS AND RESEARCH

DATE OF SURVEY: JUNE - AUGUST 2011, FEBRUARY 2013 SURVEY MADE BY: T. ROBINSON, S. ROBINSON, D. HALL

SUBMITTED BY: GARY L. KUHNS, P.E.

PROJECT NAME: CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT)

PHASE 2 SOUTH

OSCEOLA PARKWAY STATION

FINANCIAL PROJECT ID: 423446-9-52-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF PASSENGER STATION

DISTRICT: FIVE ROAD NO .: CFRC P2S COUNTY: OSCEOLA

	ORG CONT	ANIC TENT	MOIS? CON?	TURE TENT			EVE ANAL PERCENTA					TERBER IMITS (%		SOIL CLASSIFICATION			CORROS IO	N TEST RE	SULTS	
STRATUM NO.	NO. OF TESTS	%. ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO <u>GROUP</u>	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohms cm	CHLORIDE ppm	SULFATES ppm	рН 
1	1	4	1	22	5	100	98-100	90-91	57-60	5-10	0	-	-	A-3	LIGHT GRAY TO BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS	1	23 <sub>5</sub> 000	<i>4</i> 5	<5	7.3
2	1	3	1	21	8	100	98-100	89-92	58-66	10-21	0	-	-	A-2-4	LIGHT BROWN TO DARK BROWN TO GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND CEMENTED SANDS	4	19,000-71,000	30-105	<5-50	7.0-7.4
3	2	II-I3	2	66-43	0	-	-	-	-	-	0	-	-	A-8	BROWN TO DARK BROWN MUCKY FINE SAND	0	-	-	-	-
4	0	-	1	23	I	100	99	92	65	26	1	32	15	A-2-6	GRAY CLAYEY FINE SAND	0	-	-	-	-
5	0	-	1	33	1	100	99	94	84	74	1	77	61	A-7-6	GRAY TO GREENISH ORANGE TO GREEN SANDY CLAY TO CLAY	1	1,000	75	<b>&lt;</b> 5	7.1

8. STRATUM NO. 5 SHALL BE TREATED AS HIGH PLASTIC (H) IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505.

		R E	VISIONS			GEOTECHNICAL AND ENVIRONMENTAL		STATE OF FLO	DID 4	CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	CONSULTANTS, INC. 919 Lake Baldwin Lane Orlando. FL 32814	DEPA	ARTMENT OF TRAN		OSCEOLA PARKWAY STATION
						T 407-898-1818 F 407-898-1837	CFRC P2S	OSCEOLA	423446-9-52-01	SOIL SURVEY

F IGURE

SHEET NO. 1667

5/11/2015

I. SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY, ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.

<sup>2.</sup> WATER TABLE SHOWN AS 🔻 WHERE ENCOUNTERED AT TIME OF SURVEY. GNE DENOTES GROUNDWATER NOT ENCOUNTERED. ESTIMATED SEASONAL HIGH GROUNDWATER LEVELS SHOWN AS 🔽. ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE IS SHOWN AS

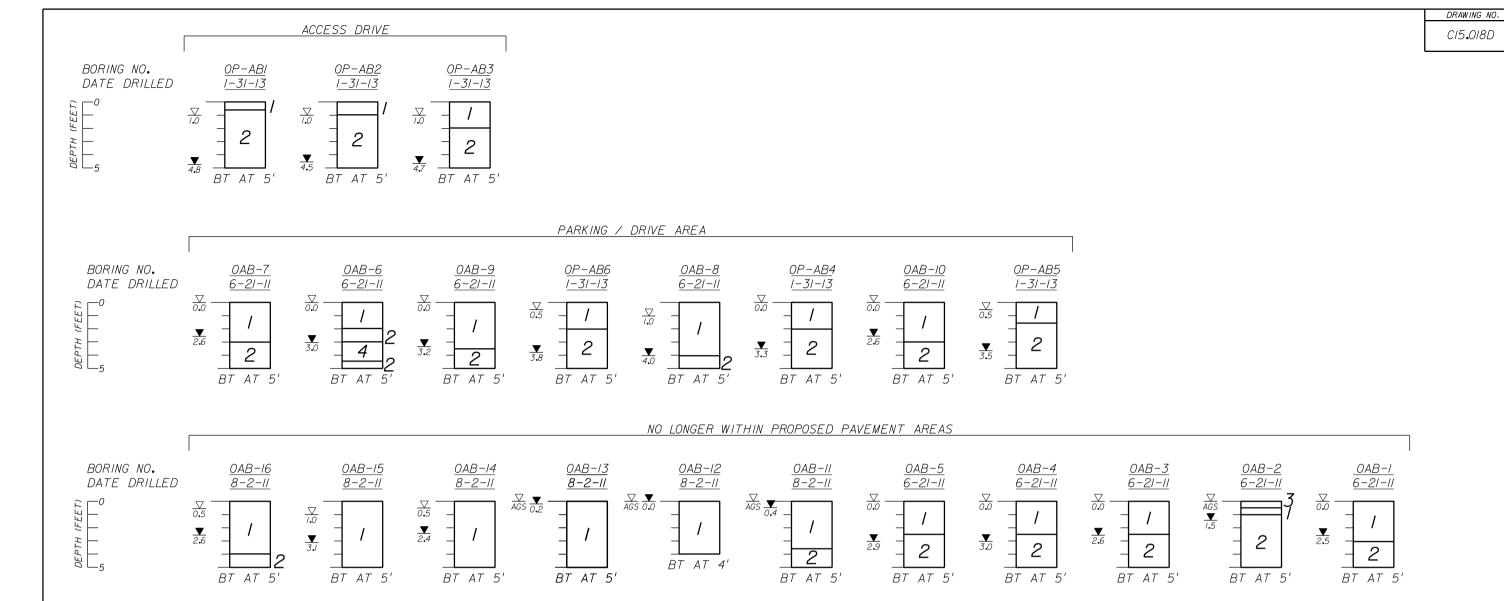
<sup>3.</sup> SOIL PARAMETER NOT TESTED DENOTED AS "-" ABOVE.

<sup>4.</sup> STRATUM NOS. I AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505.

<sup>5.</sup> STRATUM NO. 2 WILL RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.

<sup>6.</sup> STRATUM NO. 3 SHALL BE TREATED AS MUCK (M) IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505, EXCEPT WHERE MARKED "TO REMAIN" ON BORING PROFILES.

<sup>7.</sup> STRATUM NO. 4 SHALL BE TREATED AS PLASTIC (P) IN ACCORDANCE WITH FDOT INDEX 500 AND INDEX 505.



GEOTECHNICAL AND ENVIRONMENTAL

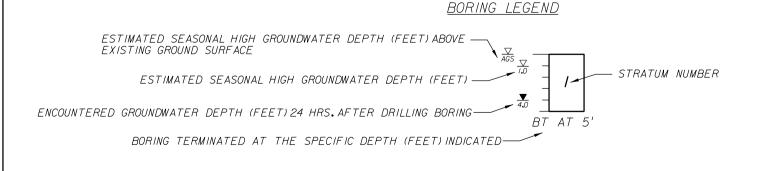
CONSULTANTS, INC.

Orlando, FL 32814 T 407-898-1818 F 407-898-1837

Certificate of Authorization No. 5882

GARY L. KUHNS, PE NO. 38704

919 Lake Baldwin Lane



REVISIONS

STRATUM NO.	AASHTO CLASSIFICATION	DESCRIPTION
/	A-3	LIGHT GRAY TO BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS
2	A-2-4	LIGHT BROWN TO DARK BROWN TO GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND CEMENTED SANDS
3	A-8	BROWN TO DARK BROWN MUCKY FINE SAND
4	A-2-6	GRAY CLAYEY FINE SAND
5	A-7-6	GRAY TO GREENISH ORANGE TO GREEN SANDY CLAY TO CLAY

CENTRAL FLORIDA COMMUTER RAIL TRA	NSIT (CFCRT) PHASE 2 SOUTH
	WE CLERK A FIRST ON Y

OSCEOLA PARKWAY STATION

SHEET NO. 1668

**FIGURE** 

FINANCIAL PROJECT ID ROADWAY AUGER BORING RESULTS 423446-9-52-01

J:\D96\2I35G6\SUBMITTAL 4-27-I5\4234469520I\geotech\rdgeo0I.dgn

ROAD NO.

CFRC P2S

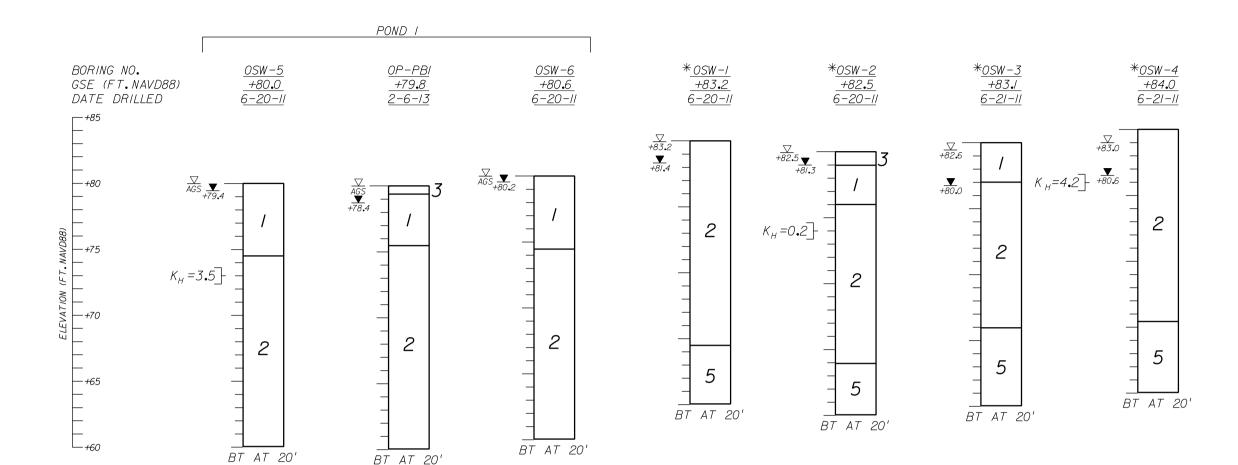
STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

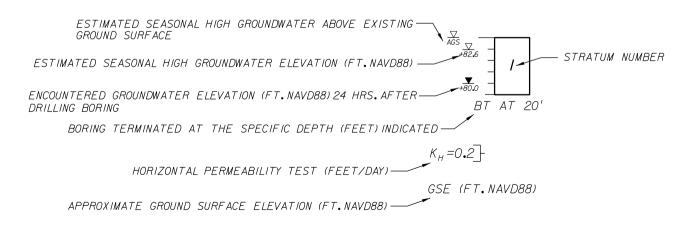
COUNTY

OSCEOLA

DRAWING NO. C15.018E



### BORING LEGEND



STRATUM NO.	AASHTO CLASSIFICATION	DESCRIPTION			
/	A-3	LIGHT GRAY TO BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS			
2	A-2-4	LIGHT BROWN TO DARK BROWN TO GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND CEMENTED SANDS			
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4	A-2-6	GRAY CLAYEY FINE SAND			
5	A-7-6	GRAY TO GREENISH ORANGE TO GREEN SANDY CLAY TO CLAY			

* RORING	LOCATION	MO	LONGER	WITHIN	PROPOSED	POND	FOOTPRINT	

						_
		R E V	ISIONS			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
l				1		

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 GARY L. KUHNS, PE NO. 38704

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S OSCEOLA 423446-9-52-01

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

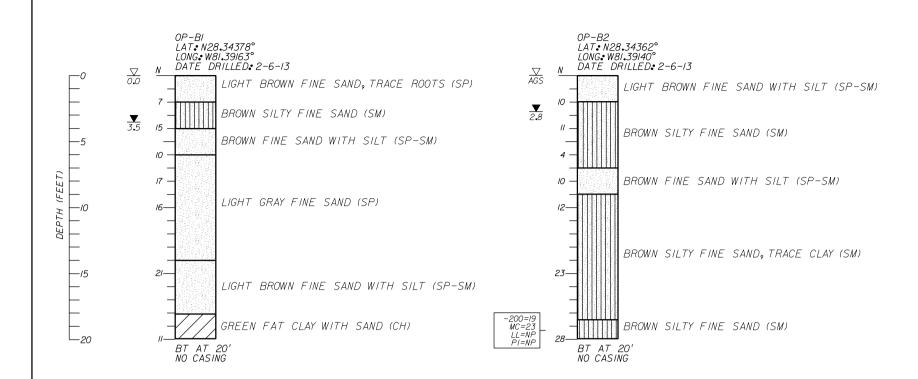
OSCEOLA PARKWAY STATION POND AUGER BORING RESULTS SHEET NO. 1669

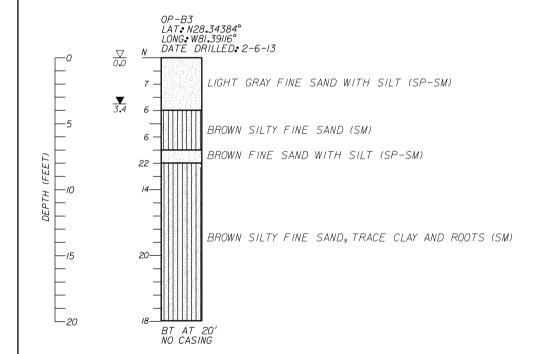
FIGURE 5

SOILS LEGEND

SAND

SAND AND SILT





DATE BY

I FGFND

 $\frac{\nabla}{\Delta GS}$  ESTIMATED SEASONAL HIGH GROUNDWATER ABOVE EXISTING GROUND SURFACE

 $\frac{\nabla}{0.0}$  ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FEET)

N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT

(SP) UNIFIED SOIL CLASSIFICATION SYMBOL

BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED

-200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)

MC = PERCENT NATURAL MOISTURE CONTENT (FM I-T 265)

LL= LIQUID LIMIT (FM I-T 089)

PI= PLASTICITY INDEX (FM I-T 090)

NP= DENOTES NON-PLASTIC

#### GENERAL NOTES

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORING ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

BORING LOCATIONS WERE NOT SURVEYED. BORINGS WERE LOCATED BY GPS SUB-METER ACCURACY UNITS (TRIMBLE GEOXT 2005 SERIES).

BASED ON A REVIEW OF THE U.S. GEOLOGICAL SURVEY MAP ENTITLED "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND VICINITY, FLORIDA, SEPTEMBER 2008" FOR THE PROJECT AREA, THE MAXIMUM ELEVATION OF THE ARTESIAN HEAD IS ESTIMATED TO BE APPROXIMATELY +55 FT. NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +55 FT. NGVD.

SPLIT SPOON SAMPLER: INSIDE DIAMETER: 1.375 IN. OUTSIDE DIAMETER: 2.0 IN. AVERAGE HAMMER DROP: 30 IN. HAMMER WEIGHT: 140 LBS. HAMMER TYPE: SAFETY (MANUAL)

SECTION: 2 TOWNSHIP: 25 SOUTH RANGE: 28 EAST

### CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

WITH RELATIVE DENSITY AND CONSISTENCY OF SUIL					
GRANULAR SOILS	N-VALUE (blows per foot)	RELATIVE DENSITY			
SANDS	0-4 4-10 10-30 30-50 OVER 50	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE			
NON-GRANULAR SOILS	N-VALUE (blows per foot)	CONSISTENCY			
SILTS, CLAYS, MUCK, PEAT	0-2 2-4 4-8 8-15 15-30 OVER 30	VERY SOFT SOFT FIRM STIFF VERY STIFF HARD			

FIGURE CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

1670

SHEET

NO.

REVISIONSGEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 GARY L. KUHNS, PE NO. 38704

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID OSCEOLA CFRC P2S 423446-9-52-01

OSCEOLA PARKWAY STATION ROADWAY SPT BORING RESULTS

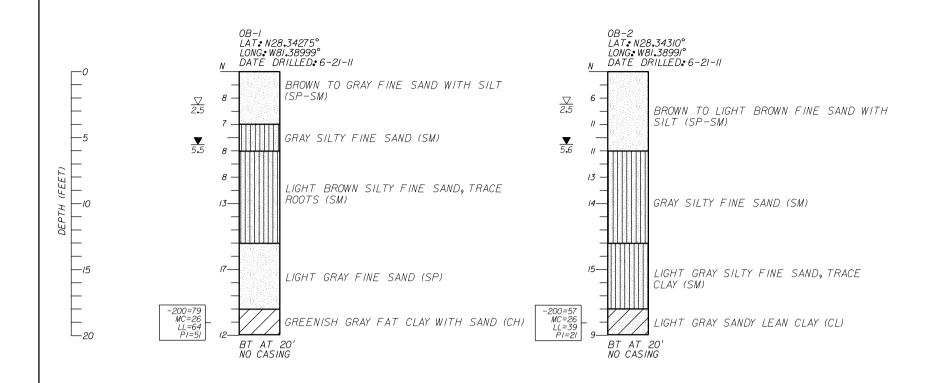
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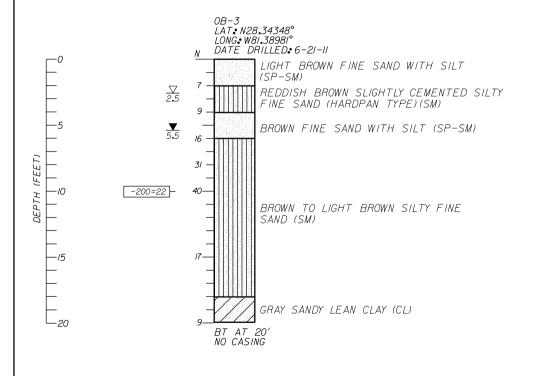
SOILS LEGEND

SAND

SAND AND SILT

AND AND CLAY





LEGEND

 $\frac{\nabla}{25}$  ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FEET)

 $_{\overline{\bf 5.6}}$  ENCOUNTERED GROUNDWATER DEPTH (FEET) 24 HRS. AFTER 5.6 DRILLING BORING

N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT

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LL= LIQUID LIMIT (FM I-T 089)

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OUTSIDE DIAMETER: 2.0 IN.
AVERAGE HAMMER DROP: 30 IN.
HAMMER WEIGHT: 140 LBS.
HAMMER TYPE: SAFETY (MANUAL)

SECTION: 2 TOWNSHIP: 25 SOUTH RANGE: 28 EAST

CORRELATION OF STANDARD PENETRATION RESISTANCE
WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL					
GRANULAR SOILS	N-VALUE (blows per foot)	RELATIVE DENSITY			
SANDS	0-4 4-10 10-30 30-50 OVER 50	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE			
NON-GRANULAR SOILS	N-VALUE (blows per foot)	CONSISTENCY			
SILTS, CLAYS, MUCK, PEAT	0-2 2-4 4-8 8-15 15-30 OVER 30	VERY SOFT SOFT FIRM STIFF VERY STIFF HARD			

FIGURE

OSCEOLA PARKWAY STATION
PLATFORM SPT BORING RESULTS

SHEET NO.

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

SHEL

1671

REVISIONS

DATE BY DESCRIPTION DATE BY DESCRIPTION

GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS, INC.
919 Lake Baldwin Lane
Orlando, FL 32814
T 407-898-1818 F 407-898-1837
Certificate of Authorization No. 5882
GARY L. KUHNS, PE NO. 38704

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

CFRC P2S OSCEOLA 423446-9-52-01

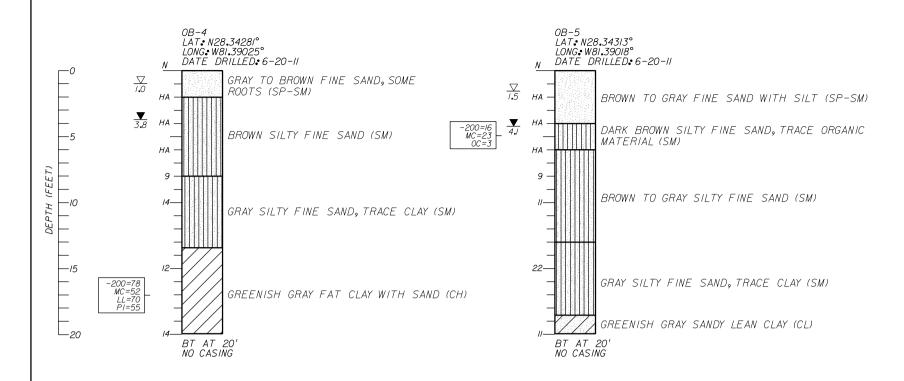
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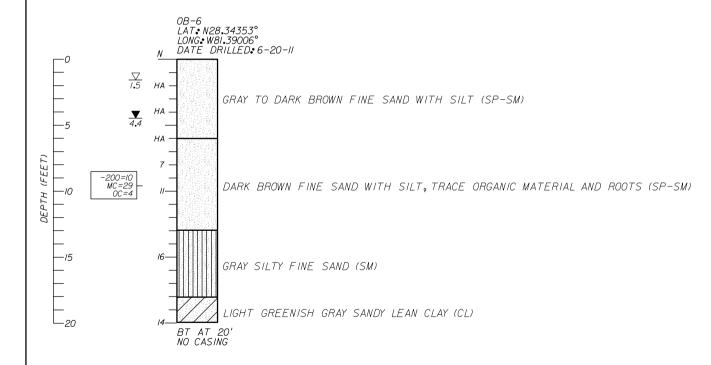
SOILS LEGEND

SAND

SAND AND SILT

SAND AND CLAY





REVISIONS

DATE BY

LEGEND

 $\frac{\nabla}{1.5}$  ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FEET)

▼ ENCOUNTERED GROUNDWATER DEPTH (FEET) 24 HRS. AFTER 4. DRILLING BORING

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SILTS, CLAYS, MUCK, PEAT	0-2 2-4 4-8 8-15 15-30 0VER 30	VERY SOFT SOFT FIRM STIFF VERY STIFF HARD			

F IGURE

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CFRC P2S OSCEOLA 423446-9-52-01

GEOTECHNICAL AND ENVIRONMENTAL

CONSULTANTS, INC.

T 407-898-1818 F 407-898-1837

Certificate of Authorization No. 5882

GARY L. KUHNS, PE NO. 38704

919 Lake Baldwin Lane

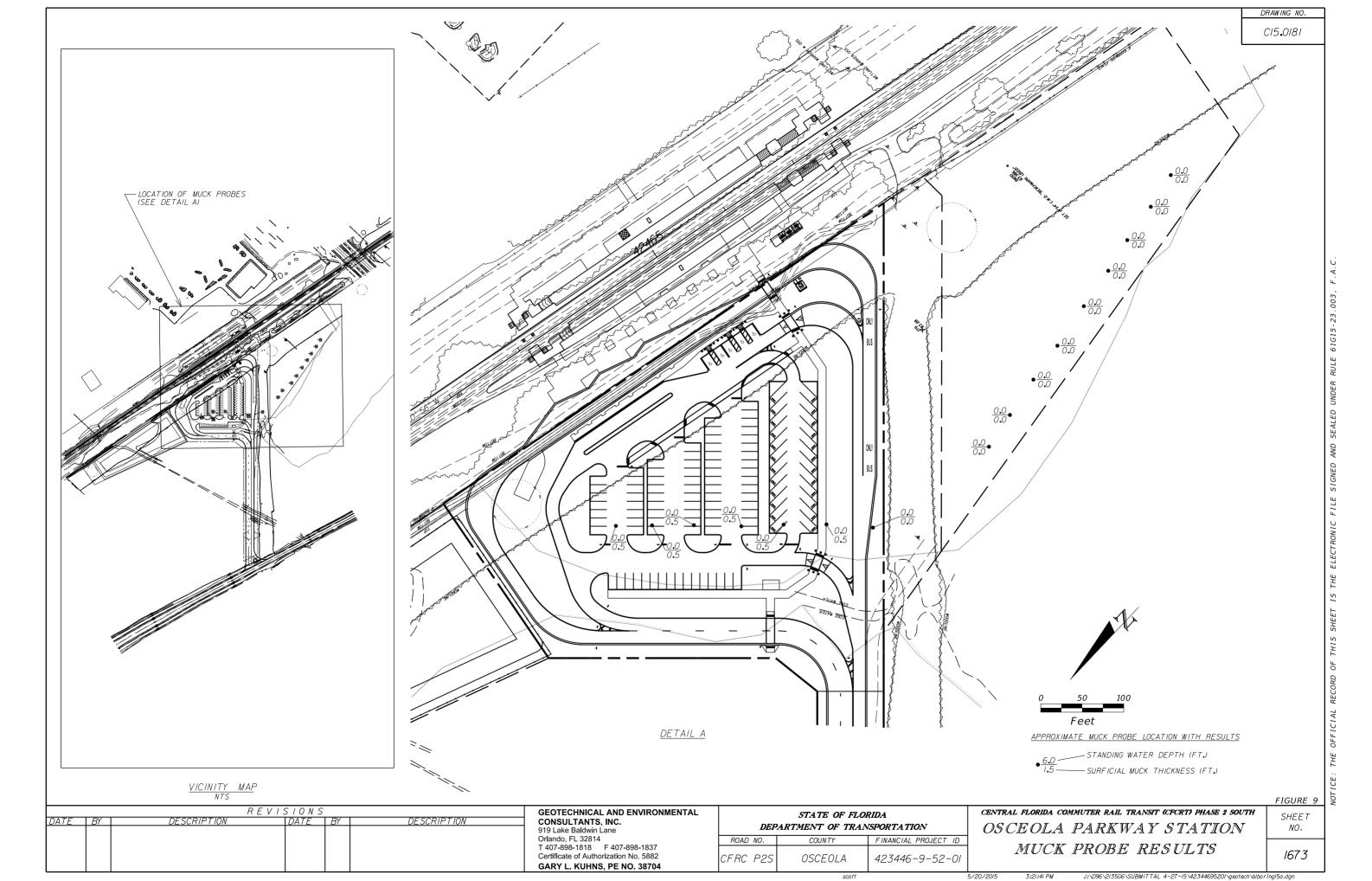
Orlando, FL 32814

OSCEOLA PARKWAY STATION

SHEET NO. 1672

PLATFORM SPT BORING RESULTS

11:03:06 AM



C15.012A

#### STORM WATER POLLUTION PREVENTION PLAN: COMMUTER RAIL TRANSIT OSCEOLA PARKWAY STATION OSCEOLA COUNTY. FLORIDA

#### I. SITE DESCRIPTION:

- (I) NATURE OF CONSTRUCTION ACTIVITY: THE PROJECT IS LOCATED WITHIN THE CITY OF KISSIMMEE, FLORIDA. THIS PROJECT INVOLVES THE NEW CONSTRUCTION OF A COMMUTER RAIL TRANSIT STATION NEAR THE INTERSECTION OF OLD DIXIE HIGHWAY & EAST OSCEOLA PARKWAY .
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER. APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES. THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR.
- (3) GENERAL NOTES:
  - (a) ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
  - (b) INSTALL STAKED SILT FENCE WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED AND DITCH BLOCKS DURING CONSTRUCTION.
  - (c) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
  - (d) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED
  - (e) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER
  - (f) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS ESTABLISHED.
- (4) PROJECT AREAS:
  - THE ESTIMATED TOTAL PROJECT AREA IS 10.43 ACRES (PROJECT AREA = ROADWAY R/W). THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 10.43 ACRES (DISTURBED PROJECT AREA = DISTURBED ROADWAY R/W).
- (5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION: RUNOFF COEFFICIENT FOR: GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20 IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95 DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40 WEIGHTED RUNOFF COEFFICIENT: BEFORE: Cw(B) = 0.20DUR/NG: Cw(D) = 0.50AFTER: THE RUNOFF COEFFICIENT DURING CONSTRUCTION, CW(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION, AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.
- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE THE SOILS WITHIN THE PROJECT LIMITS INCLUDE MYAKKA FINE SAND, BASINGER FINE SAND, BASINGER FINE SAND DEPRESSIONAL, AND SMYRNA FINE SAND. MYAKKA FINE SAND IS CHARACTERIZED AS NEARLY LEVEL TO GENTLY SLOPING AND MODERATELY WELL DRAINED AND IS CLASSIFIED AS A-3 SELECT MATERIAL. BASINGER FINE SAND IS CHARACTERIZED AS NEARLY LEVEL AND POORLY DRAINED AND IS GENERALLY CLASSIFIED AS A-3 OR A-2-4 SELECT MATERIAL. BASINGER FINE SAND DEPRESSIONAL IS CHARACTERIZED AS NEARLY LEVEL AND POORLY WELL DRAINED AND IS GENERALLY CLASSIFIED AS A-3 OR A-2-4 SELECT MATERIAL. SMYRNA FINE SAND IS CHARACTERIZED AS NEARLY LEVEL AND POORLY DRAINED AND IS GENERALLY CLASSIFIED AS A-3 SELECT MATERIAL.

- (7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL: BASIN ARFA SLOPE POND I 8.89AC 0.059%
  - (a) SITE MAP: INCLUDED WITH THE ROADWAY SHEETS (b) DRAINAGE MAP: INCLUDED WITH THE ROADWAY SHEETS
- (8) RECEIVING WATERS: IN THE EXISTING CONDITION THE SITE DRAINS TO AN EXISTING CROSS DRAIN UNDER THE RAILWAY. THE OUTFALL STRUCTURES ARE TO BE PROTECTED WITH SEDIMENT
  - (A) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.
  - (B) THE ON-SITE RUNOFF IS CONVEYED THROUGH A PROPOSED STORMWATER SYSTEM TO ONE PROPOSED STORMWATER POND AND WILL DISCHARGE TO A PROPOSED STORM SWALE PRIOR TO DISCHARGING TO THE CROSS DRAIN UNDER THE RAILWAY
  - (C) THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAY.
- (9) THE ONLY OUTFALL THAT IS 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS IS MILLS SLOUGH.
- (10) THERE ARE WETLAND AND SURFACE WATER IMPACTS FOR THIS PROJECT.
- (II) AREAS SHOWN FOR WETLAND AND OSW INCLUDE AREAS WITHIN ROW, CONSTRUCTION IMPACTS AND TEMPORARY CONSTRUCTION IMPACTS AND MAY INCLUDE AREAS OUTSIDE ROW. TEMPORARY CONSTRUCTION IMPACT AREAS LOCATED SOLELY OUTSIDE ROW ARE IDENTIFIED AS TEMPORARY IMPACT AREAS WITH NO ADDITIONAL INFORMATION.
- (12) DESCRIPTION OF STORM WATER MANAGEMENT: (EXISTING/PROPOSED)
  (a) PRESENTLY, THE EXISTING DRAINAGE PATTERNS ARE TYPICALLY OVERLAND FLOW AND DRAINS INTO A CROSS DRAIN UNDER THE RAIL AND THEN DRAINS TO AN ADJACENT OFFSITE WETLAND. FOR PROPOSED CONDITIONS, ON-SITE FLOWS ARE MANAGED BY CHAMBER ONE WET DETENTION POND. THE EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED WITH BY PASS STORMWATER SYSTEM TO THE ADJACENT OFFSITE WETLAND.
  - (b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT
  - (c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.
  - (d) THE STORM WATER SHALL BE CONVEYED TO ONE OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES.

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	R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	

Vanasse Hangen Brustlin, Inc. Transportation, Land Development, Environmental Services 225 E. Robinson St., Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization \* 3932 Paul W. Yeargain, P.E. PE \* 50682

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S 423446-9-52-01 OSCEOLA

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH

OSCEOLA PARKWAY STATION SWPPP PLAN

SHEET NO.

II. CONTROLS:

EROSION AND SEDIMENT CONTROLS

- (I) WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE PROJECT ENGINEER UPON THE OBSERVATION THAT THE WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS SHALL BE DESIGNATED BY THE ENGINEER. THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29NTU'S ABOVE BACKGROUND). MONITORING OF WATER QUALITY SHALL BE CONDUCTED A MINIMUM OF TWICE DAILY FOR ANY EARTHWORK ACTIVITIES WITHIN THE IMPROVEMENT AREA. MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM THE CENTER OF THE STREAM, ONE (I) UPSTREAM OF THE ACTIVITY AND ONE (I) DOWNSTREAM OF THE EROSION CONTROL DEVICES, BUT WITHIN THE PROJECT RIGHT-OF-WAY. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES REEVALUATED BY THE FDOT REPRESENTATIVE PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29NTU'S ABOVE BACKGROUND). WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- (2) STABILIZATION PRACTICES STABILIZATION FRACTICES
  STABILIZATION MEASURES, SUCH AS PERFORMANCE SODDING OR SEEDING OF SIDE SLOPES SHALL BE INITIATED
  AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE
  TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE SHALL THE TIME BE GREATER THAN
  7 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES.
- (3) STRUCTURAL PRACTICES INCLUDE:
  - (a) SILT FENCES

  - SYNTHETIC BALES
  - (d) SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
  - (e) TURBIDITY BARRIER
- (4) SILT FENCE LOCATIONS:
  - (a) SILT FENCE SHALL BE USED ALONG THE PERIMETER OF THE PROJECT WHERE THE EXISTING GROUND SLOPES AWAY FROM THE RIGHT-OF-WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. SILT FENCES SHALL BE INSTALLED AS DITCH BLOCKS TO AVOID DOWNSTREAM SILTATION. SILT FENCES SHOULD ONLY BE USED IF: (I) WETLANDS OR WATERS OF THE U.S. ARE INVOLVED
  - (2) IF UNDISTURBED VEGETATION OUTSIDE LIMITS OF CONSTRUCTION ARE NOT ADEQUATE TO FILTER RUNOFF.
  - (b) STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER (c) SILT FENCE SHALL BE USED AROUND PROPOSED DITCH BOTTOM INLETS.
- (5) ROCK BAG LOCATIONS:

GENERALLY, ROCK BAGS SHALL BE INSTALLED FOR THE PURPOSE OF CONTROLLING SILTATION AT CURB AND GUTTER INLETS WHERE ONE CAN NOT DRIVE A STAKE.

(6) SYNTHETIC BALES LOCATIONS:

GENERALLY, SYNTHETIC BALES SHALL BE INSTALLED FOR THE PURPOSE OF CONTROLLING SILTATION AT DITCH BOTTOM INLETS.

(6) CONSTRUCTION ENTRANCES/EXITS:

SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED FOR BOTH ON-SITE AND OFF-SITE LOCATIONS OF STOCKPILED OR EXCAVATED MATERIAL. IF IMMEDIATELY ADJACENT TO A PUBLIC ROADWAY. THE ENGINEER SHALL BE RESPONSIBLE FOR MODIFYING THE SYSTEM OR

- (7) TURBIDITY BARRIER LOCATION:
  - (a) STAKED TURBIDITY BARRIER IS TO BE USED AT ALL OF THE EXISITING CROSS DRAINS OUTFALLS; AND AREAS WHERE PERMANENT WATER BODIES ARE LESS THAN 3 FEET DEEP.
  - (b) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS.
  - (c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF SOILS HAVE BEEN ACHIEVED.

#### III. OTHER CONTROLS:

- (I) WASTE DISPOSAL
  - (a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
  - (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
  - (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON-SITE.
  - (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.
- (2) OFF-SITE VEHICLE TRACKING WILL BE CONTROLLED BY THE FOLLOWING METHODS:
  - (A) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES
  - (B) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY
- (3) FEDERAL, STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

ARMY CORPS OF ENGINEERS, SOUTH FLORIDA WATER MANAGEMENT DISTRICT (ERP), FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (NPDES), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (ERP).

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE THE FDOT WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL. LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT DISTRICT FIVE HAZARDOUS MATERIAL COORDINATOR AT (386) 943-5000.

- (I) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED
- THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: GENERAL ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED
- STRUCTURAL PRACTICES BUILT UP SEDIMENT WILL BE REMOVED FROM STAKED SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE-HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. ROCK BAGS SHALL BE REPLACED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STAKED SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

#### V. INSPECTION:

- THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.
- (2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAY'S AND WITHIN TWENTY FOUR (24) HOURS OF THE END OF A STORM EVENT OF AT LEAST 0.5 INCHES OR

#### VI. TRACKING AND REPORTING:

- (I) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.
- (3) THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT(\* 650-040-03), FOR DAILY INSPECTIONS.

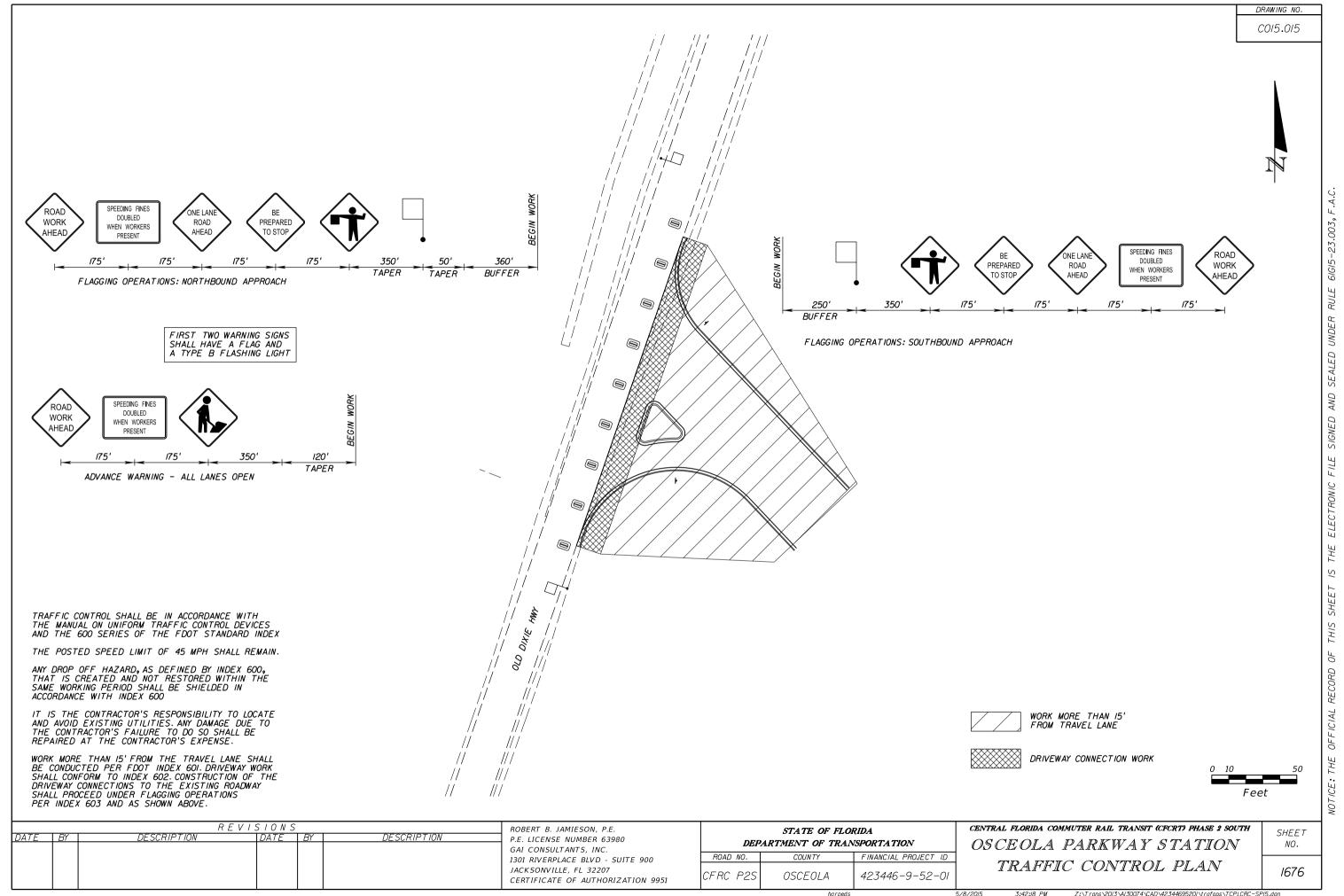
	Vanasse Hangen Brustlin		
DATE BY DESCRIPTION	DATE BY	DESCRIPTION	Transportation, Land De Environmental Services 225 E. Robinson St., Su Orlando, FL 32801 (407 Certificate of Authoriz Paul W. Yeargain, P.E. PF * 50682

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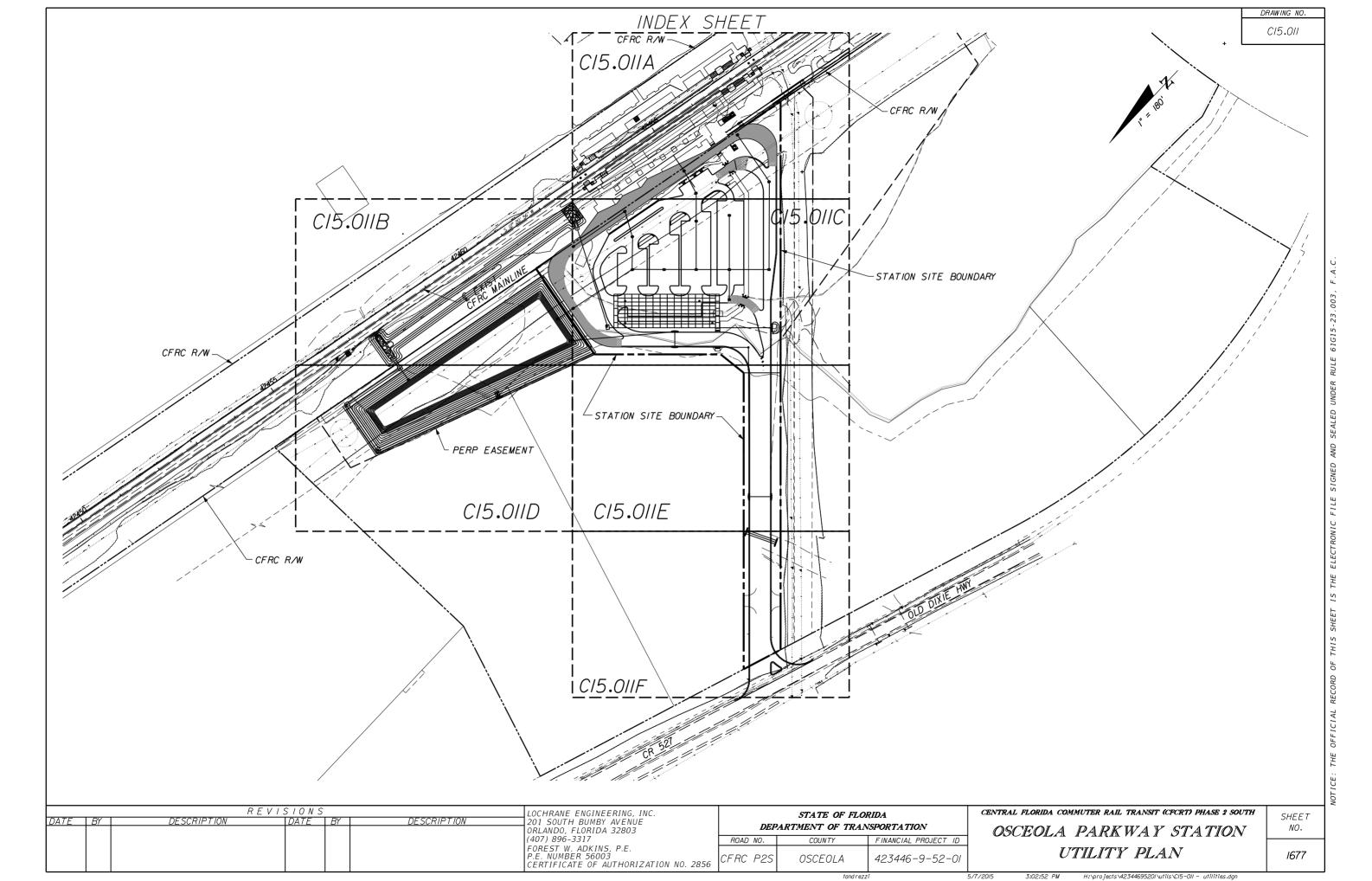
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY CFRC P2S 423446-9-52-01 OSCEOLA

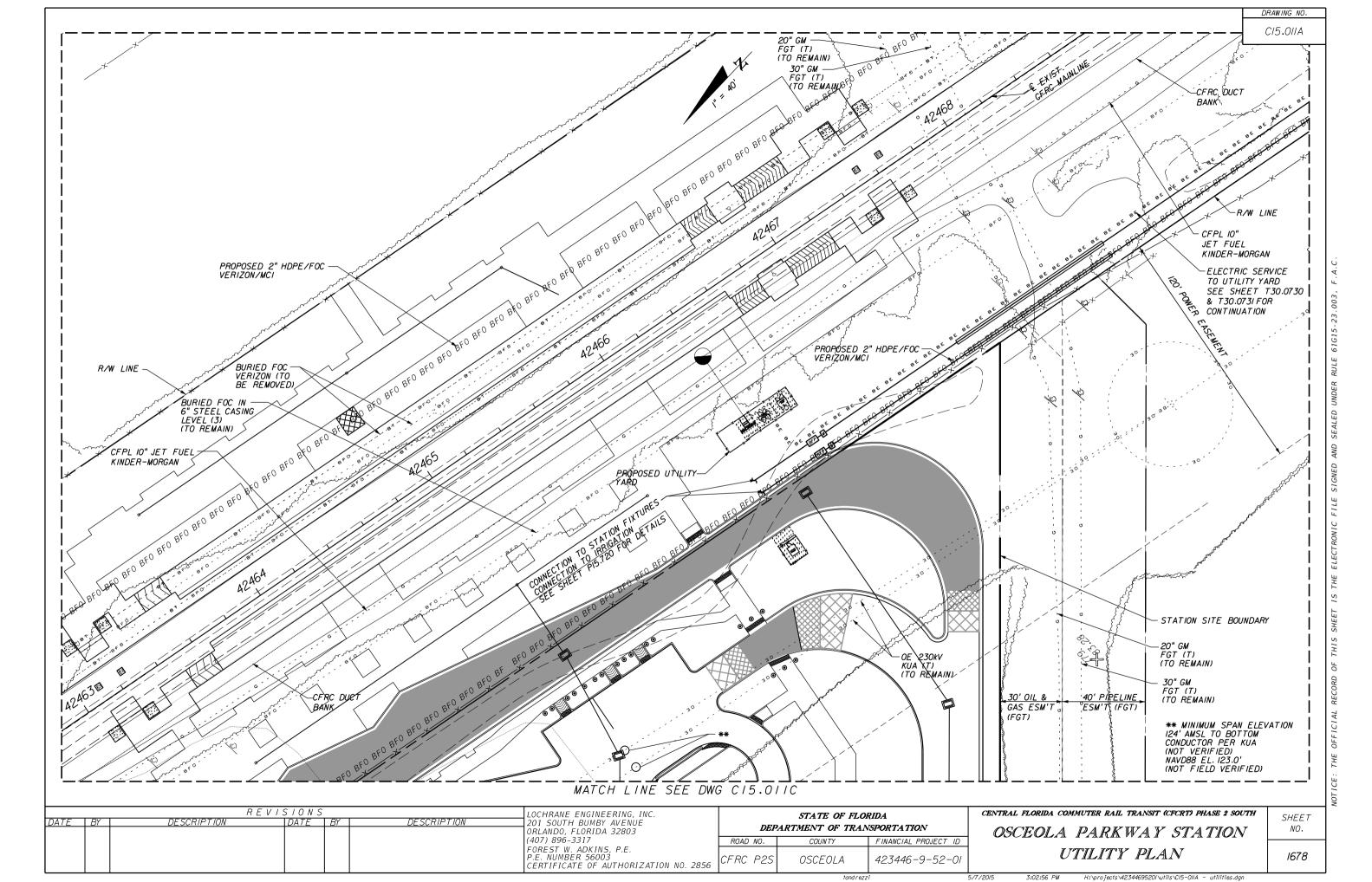
CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION SWPPP PLAN

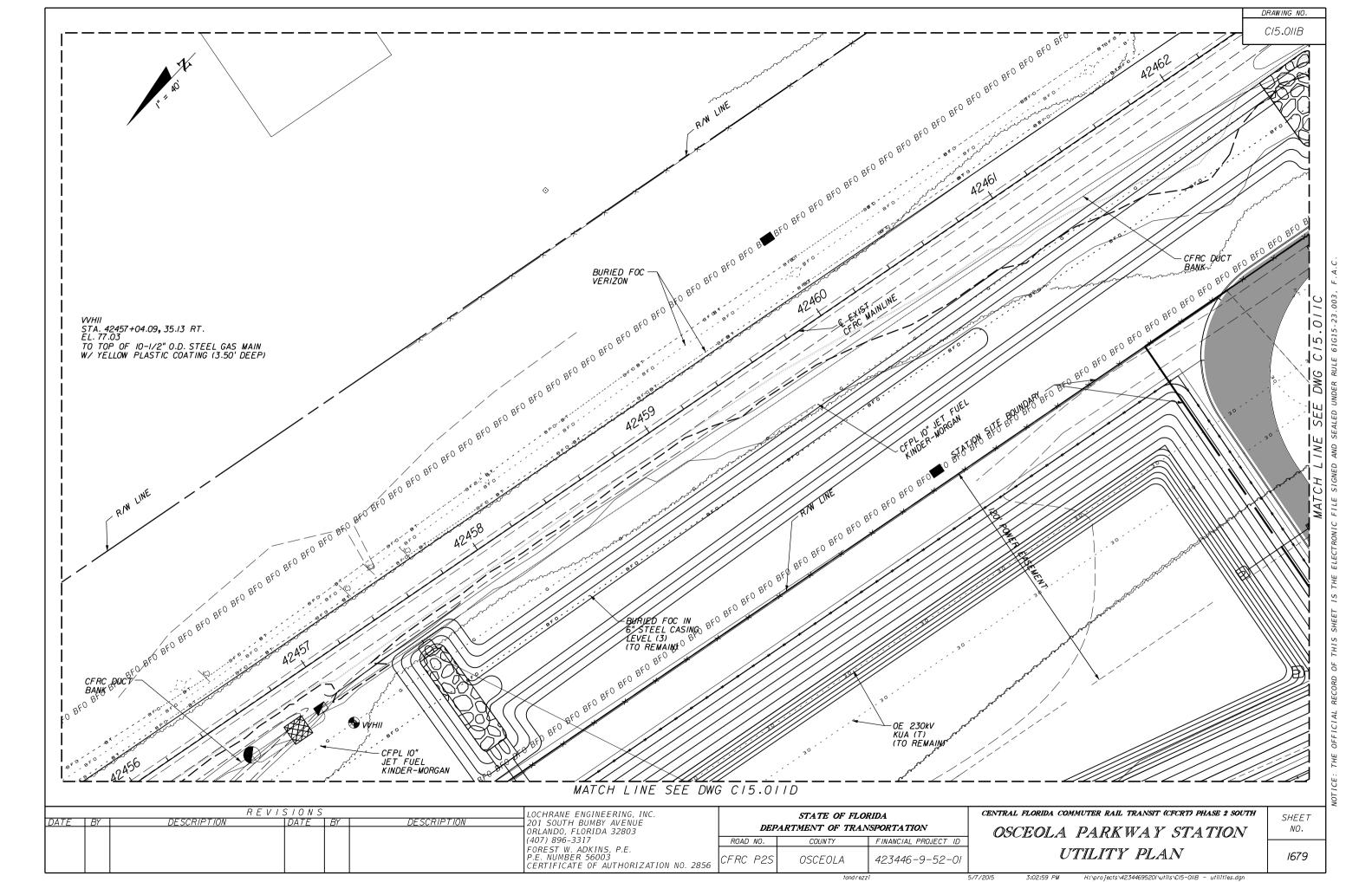
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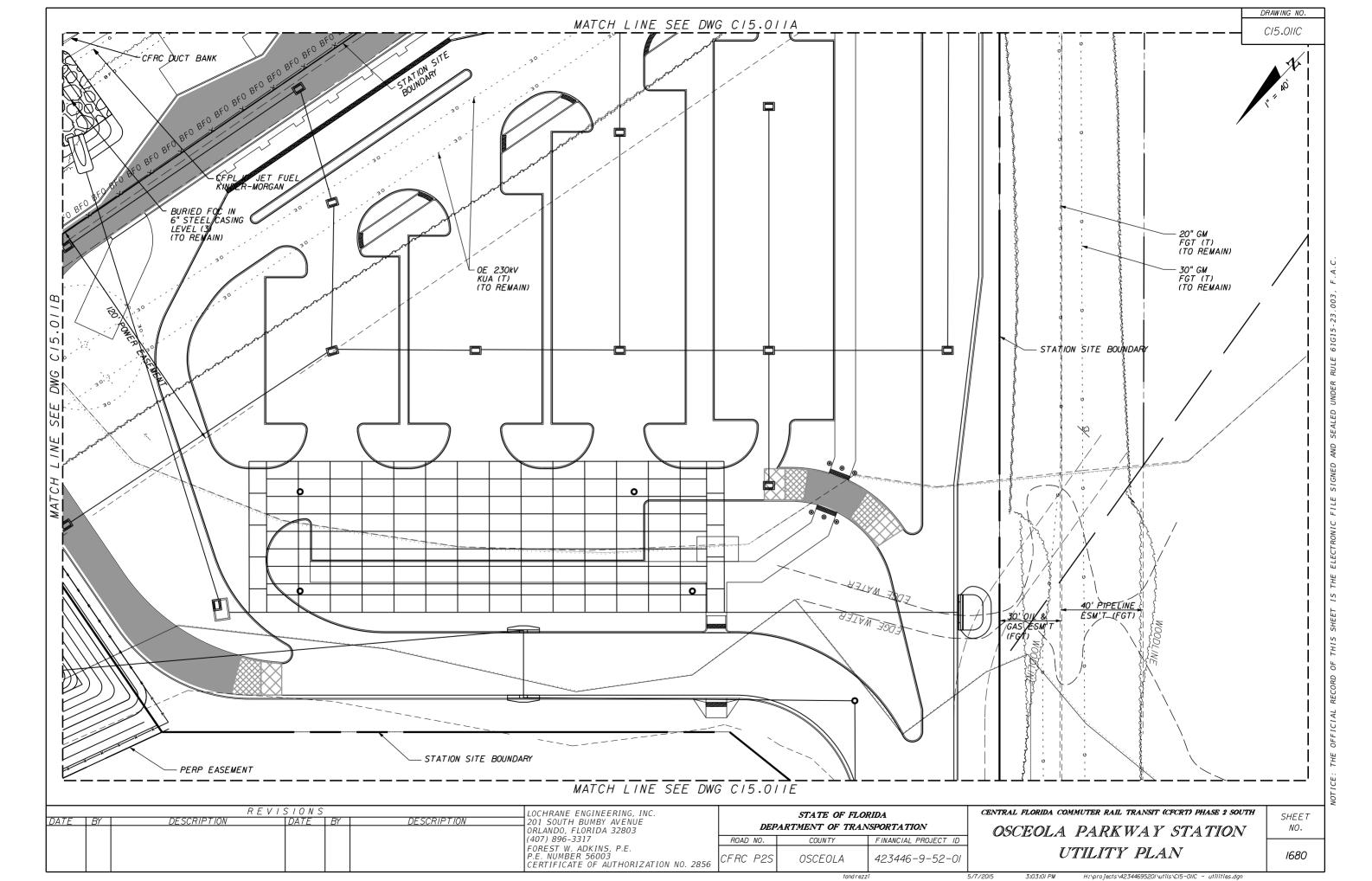


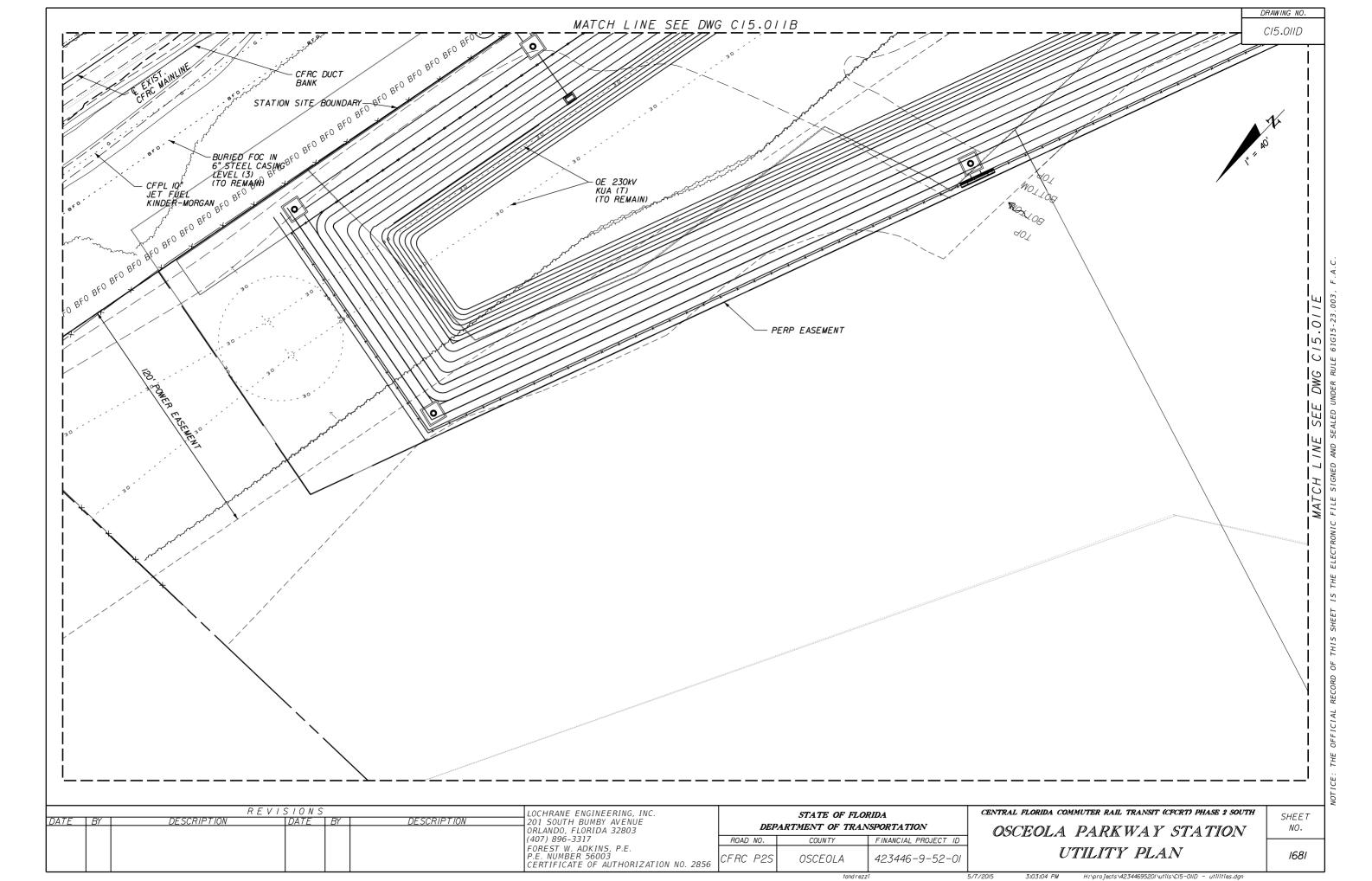
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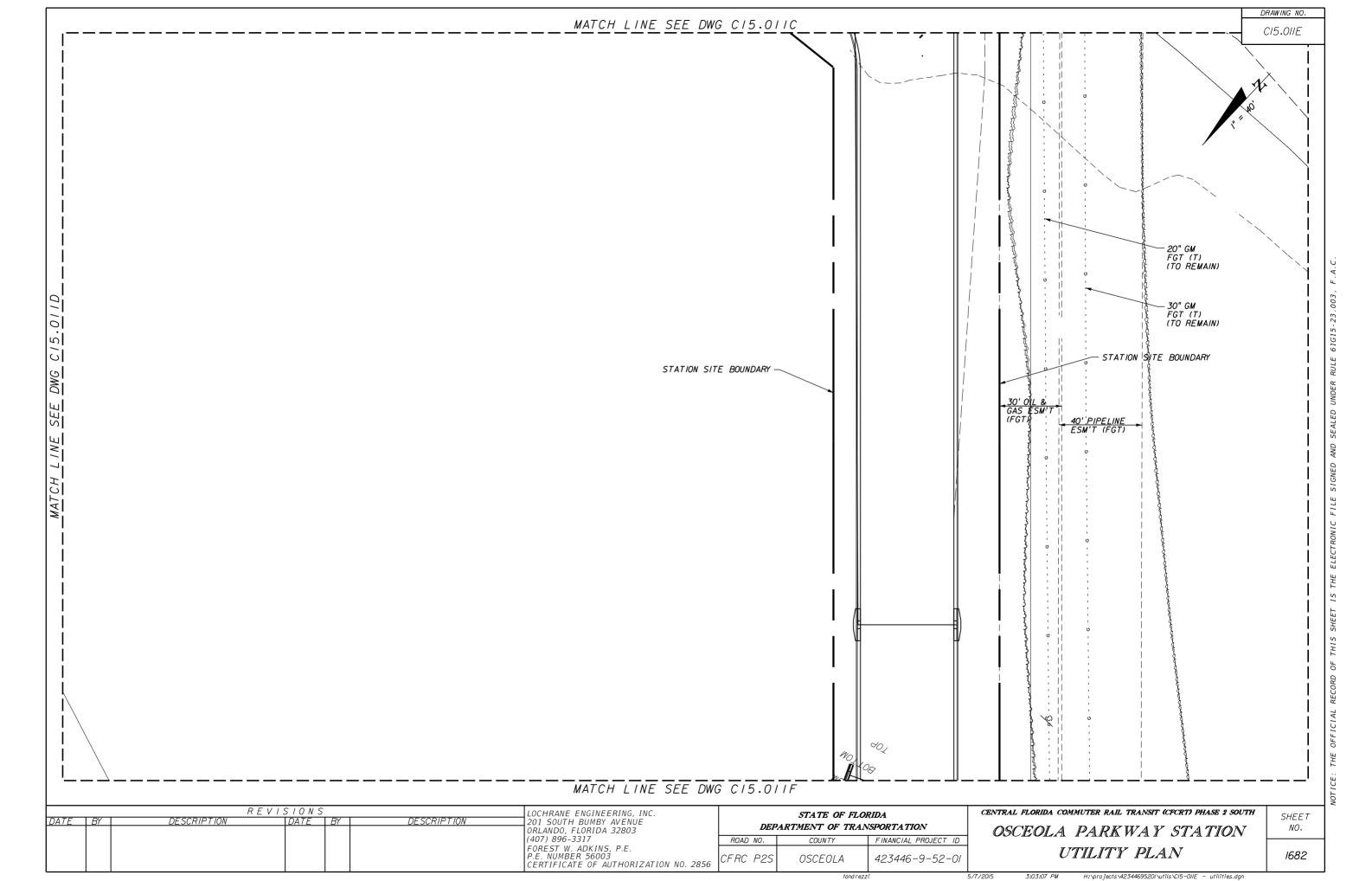


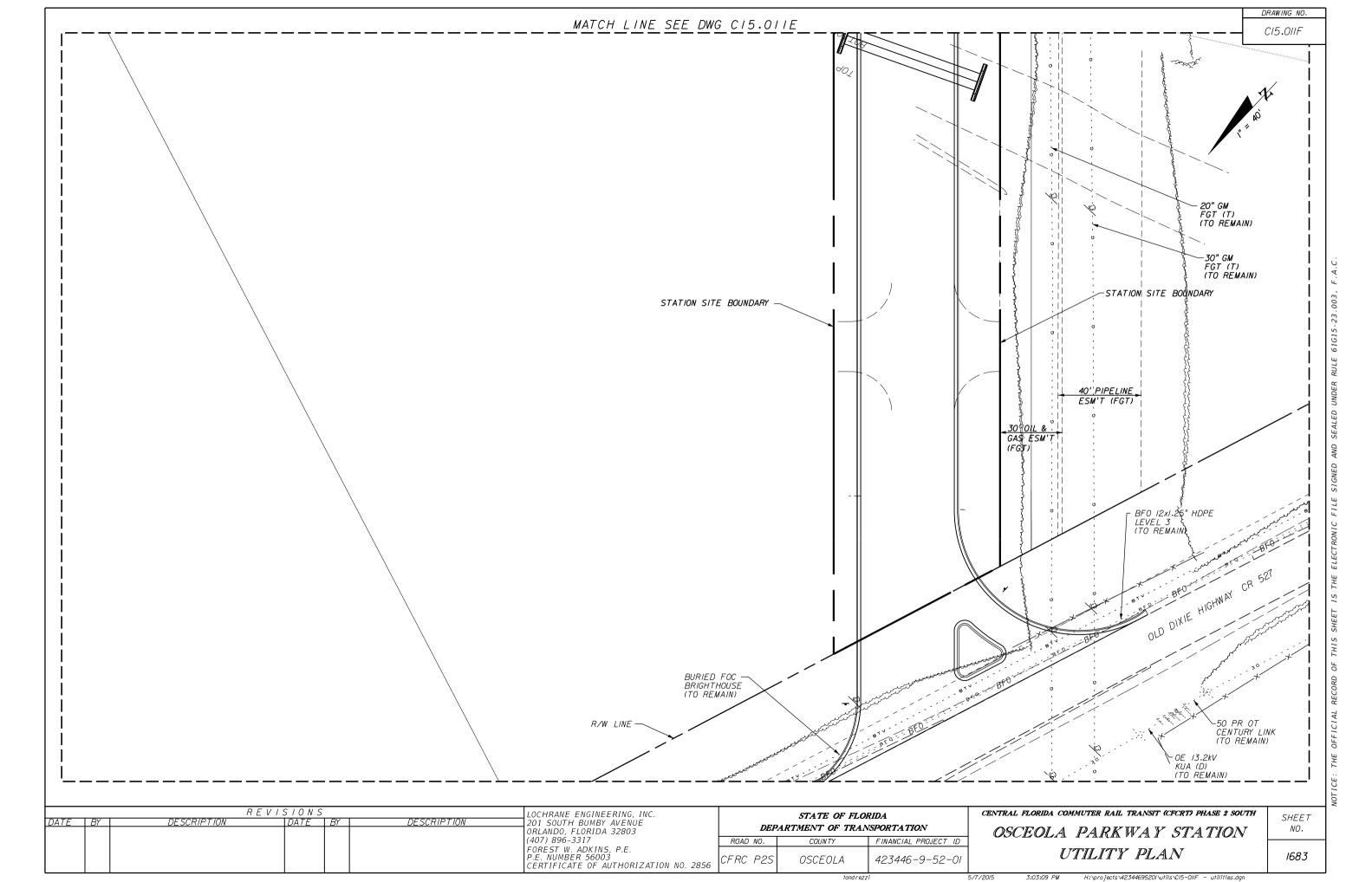


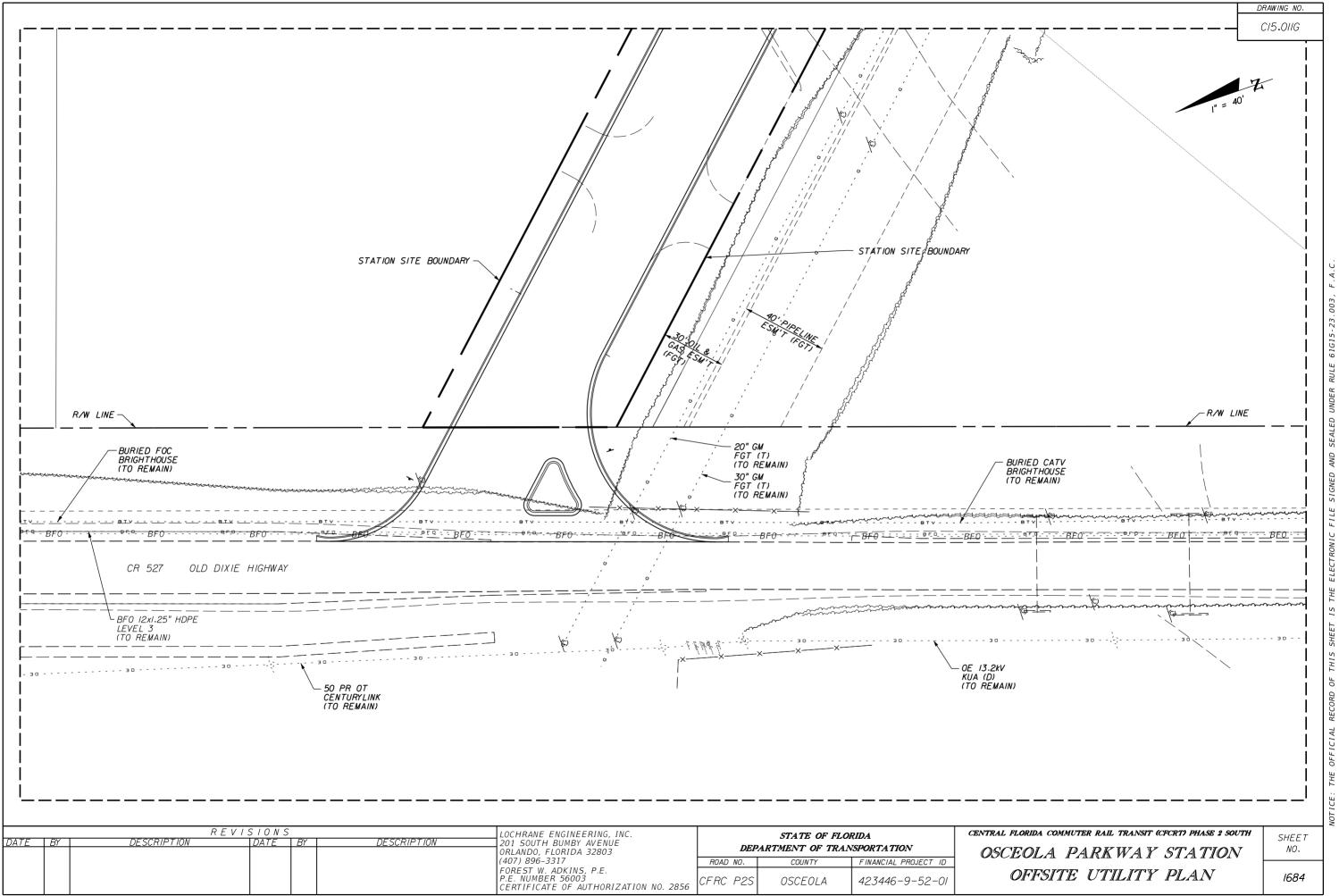


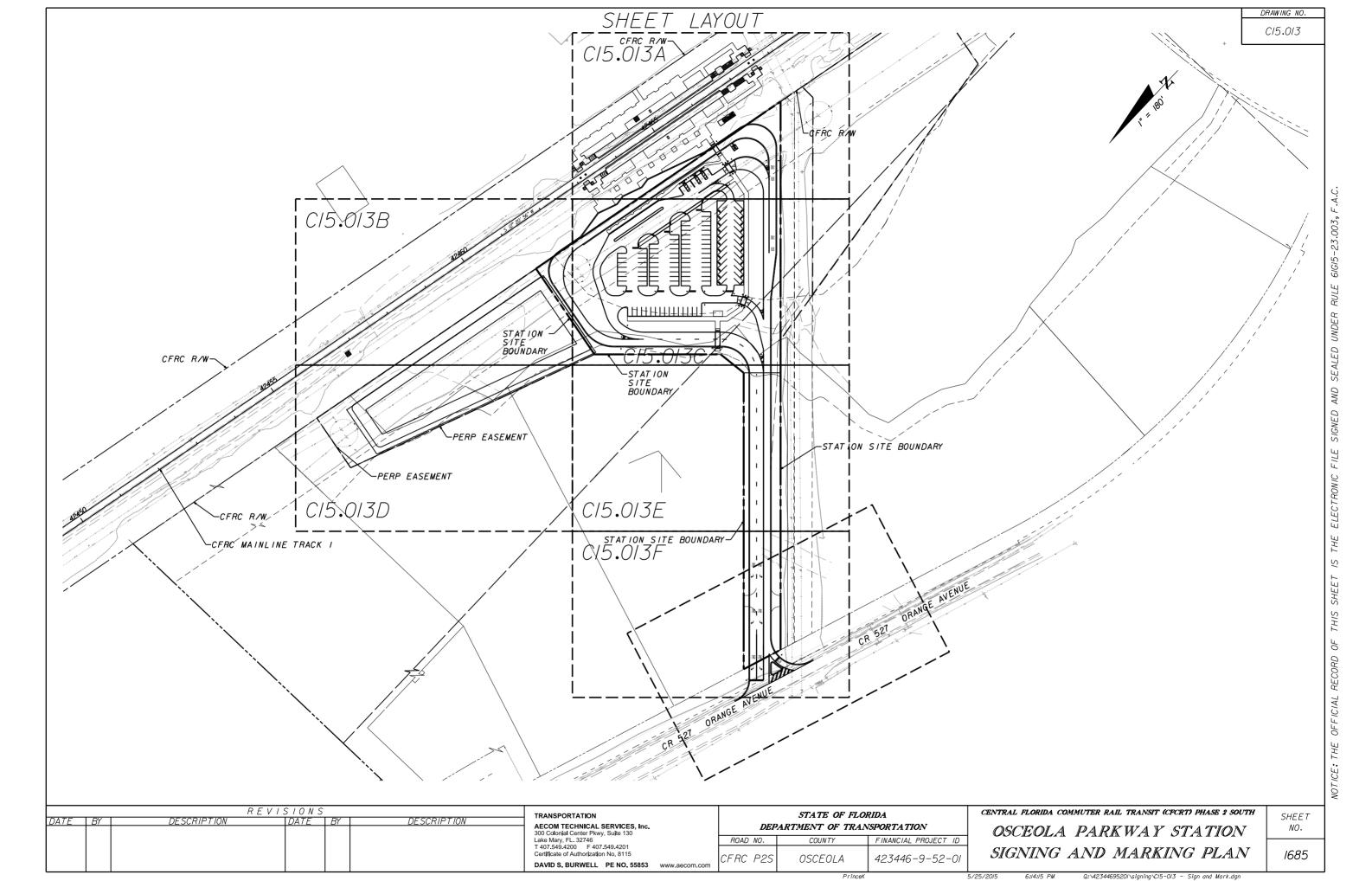


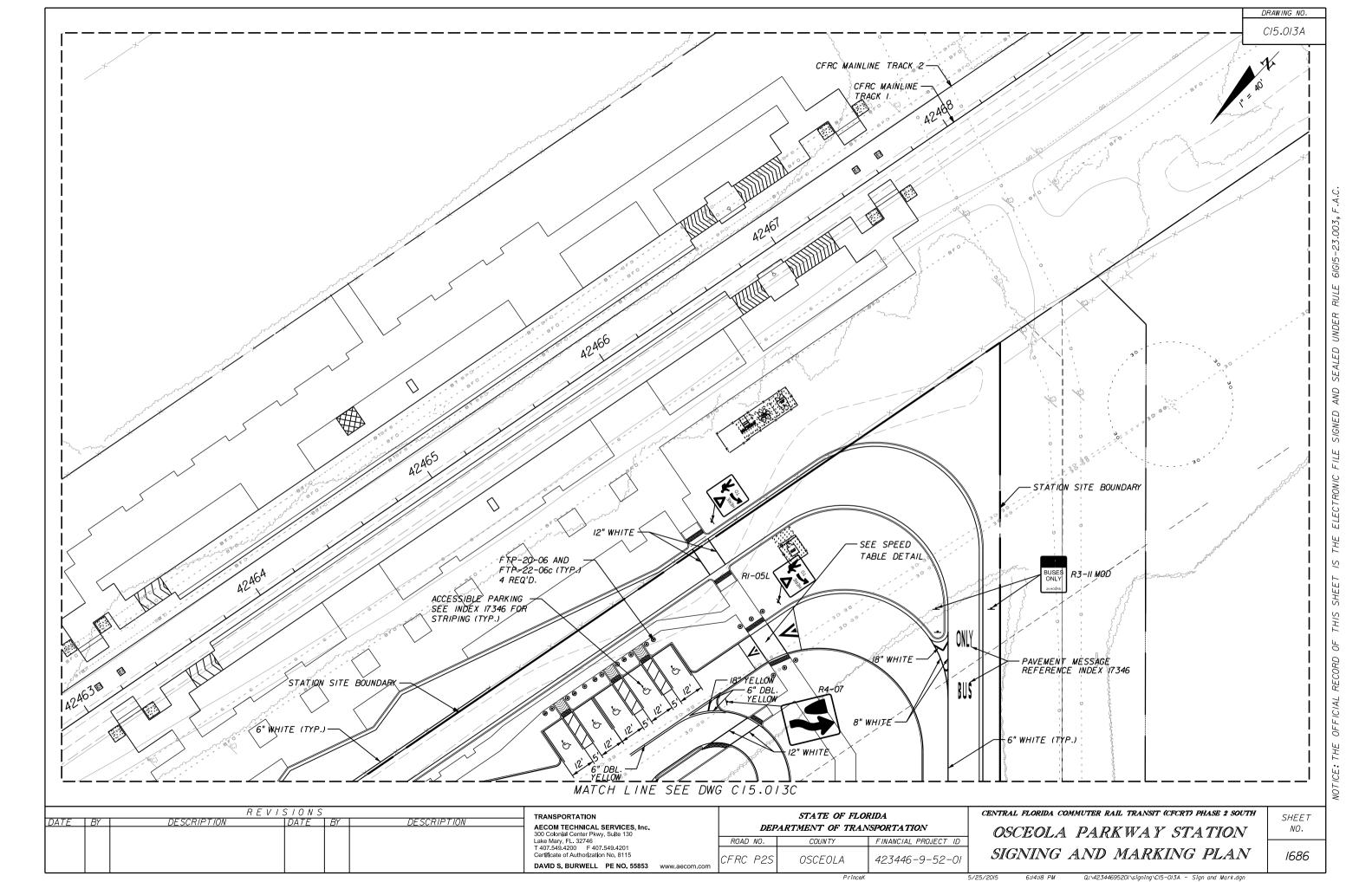


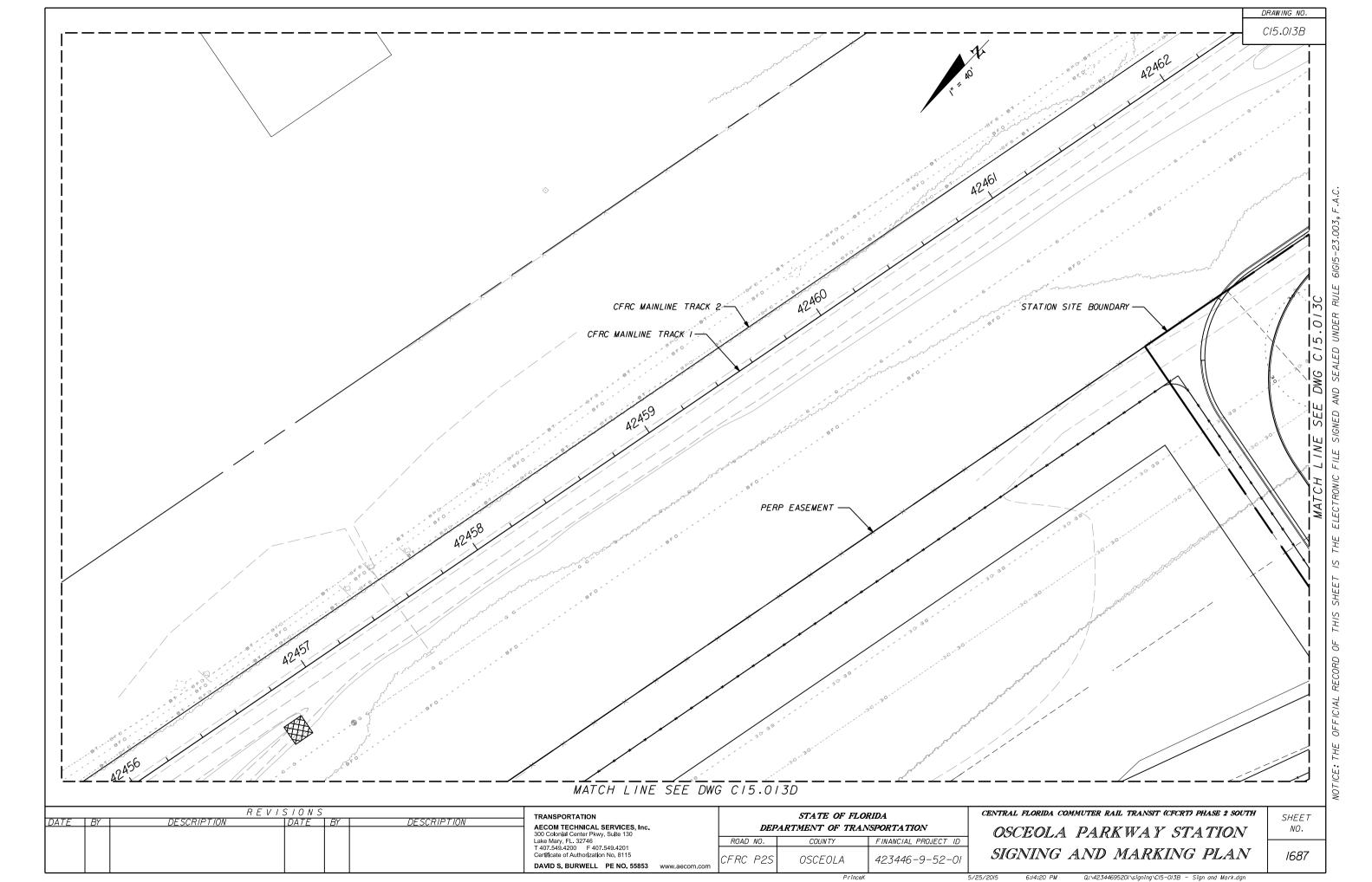


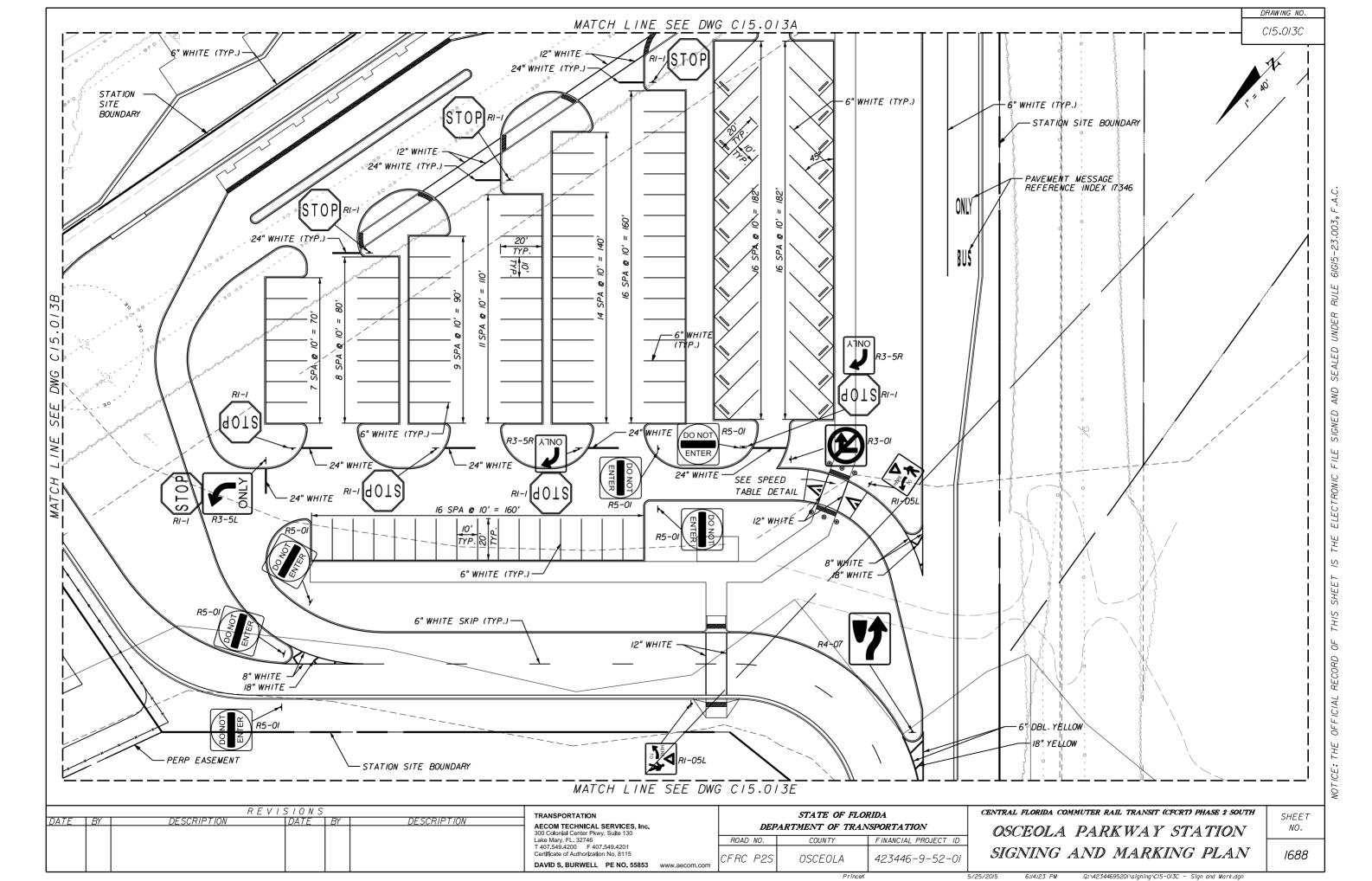


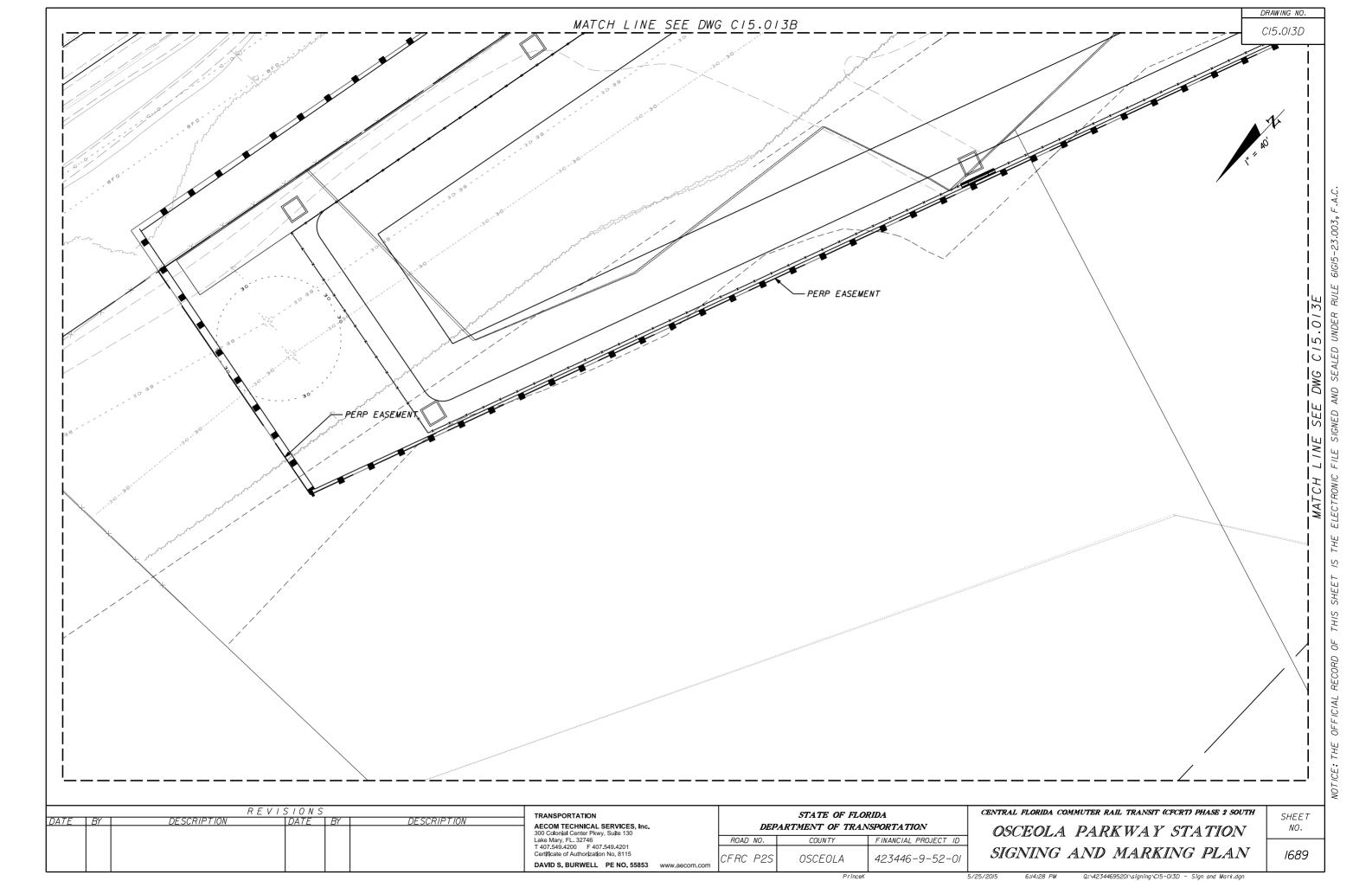


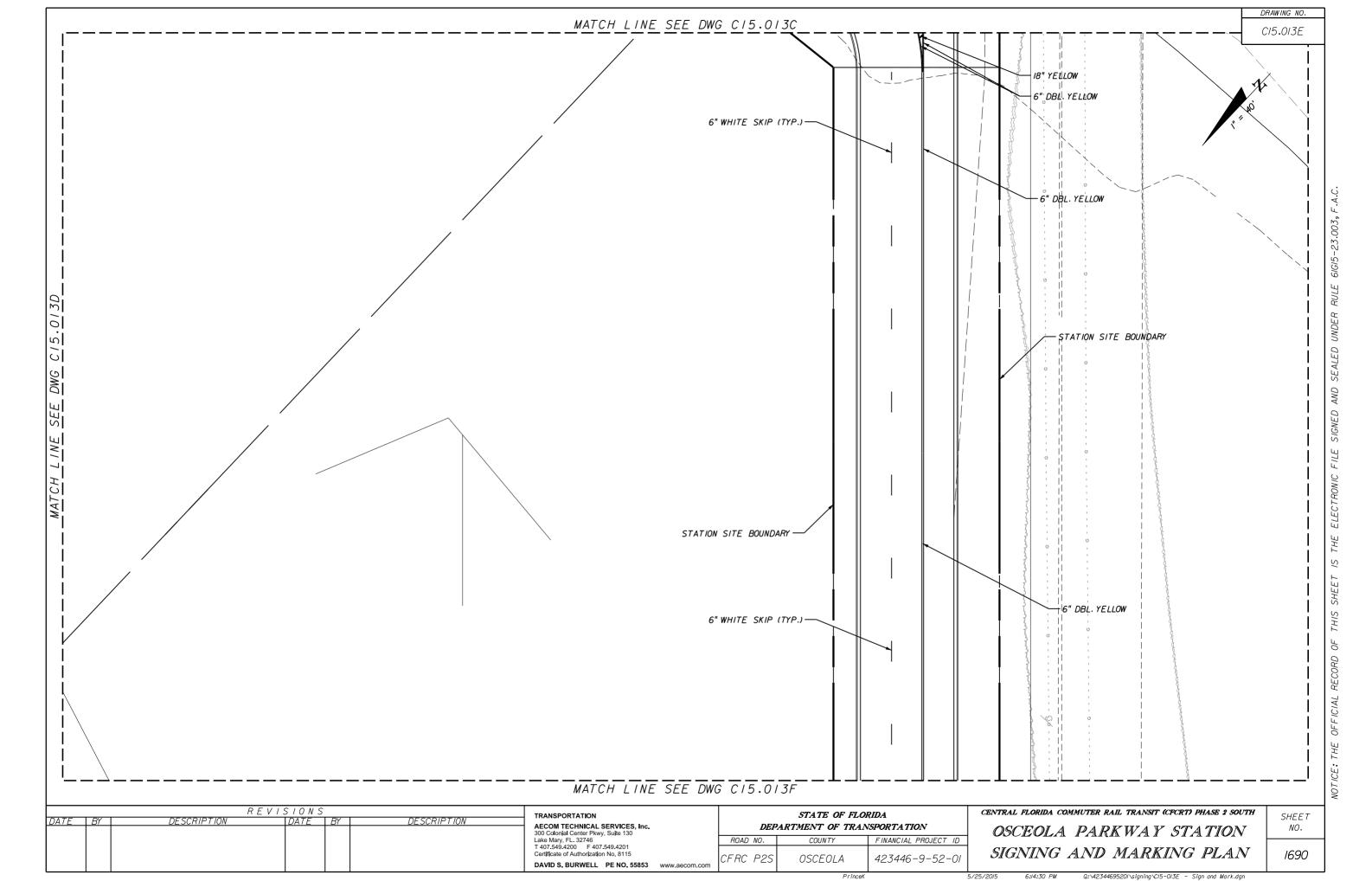


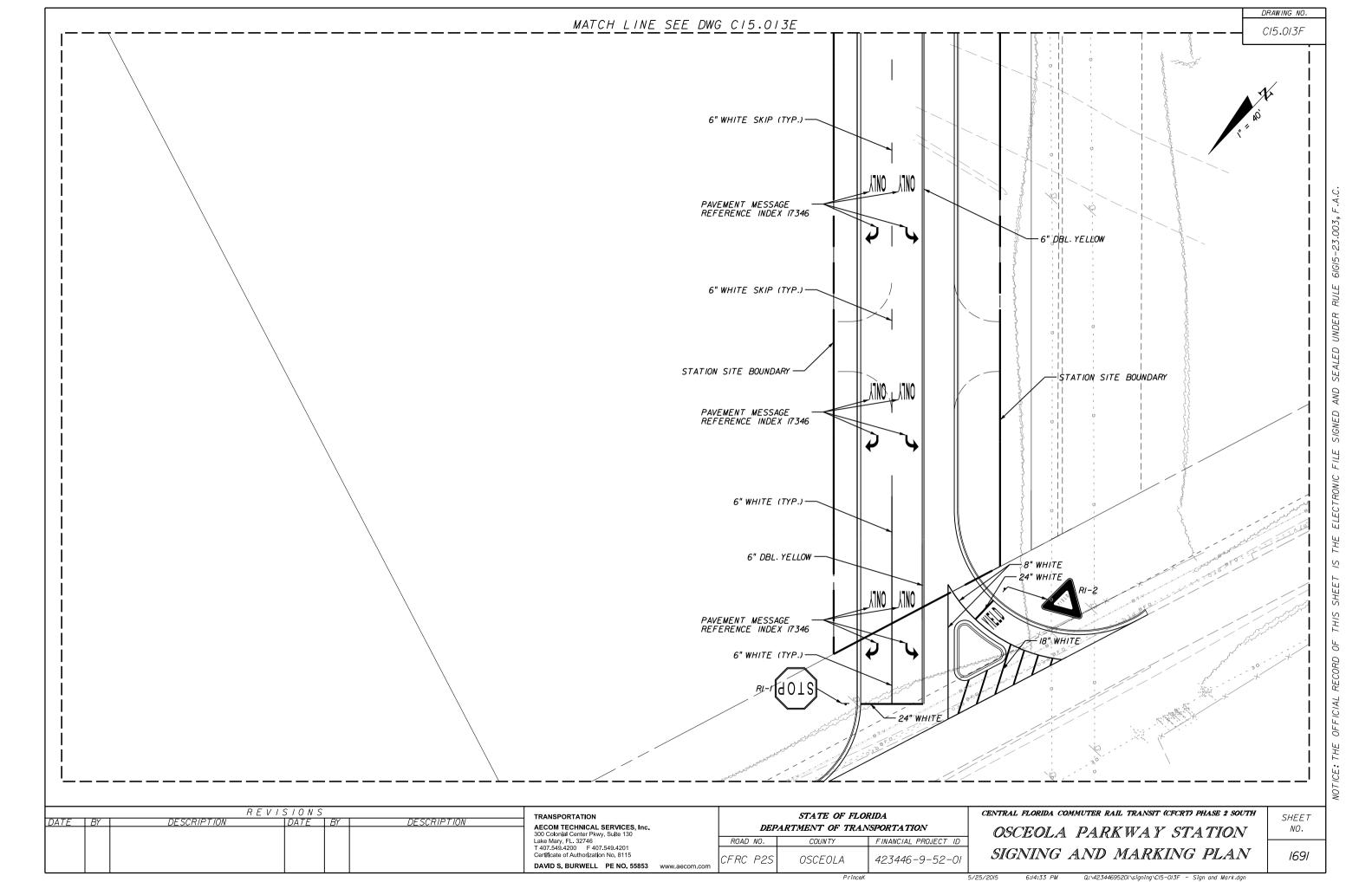


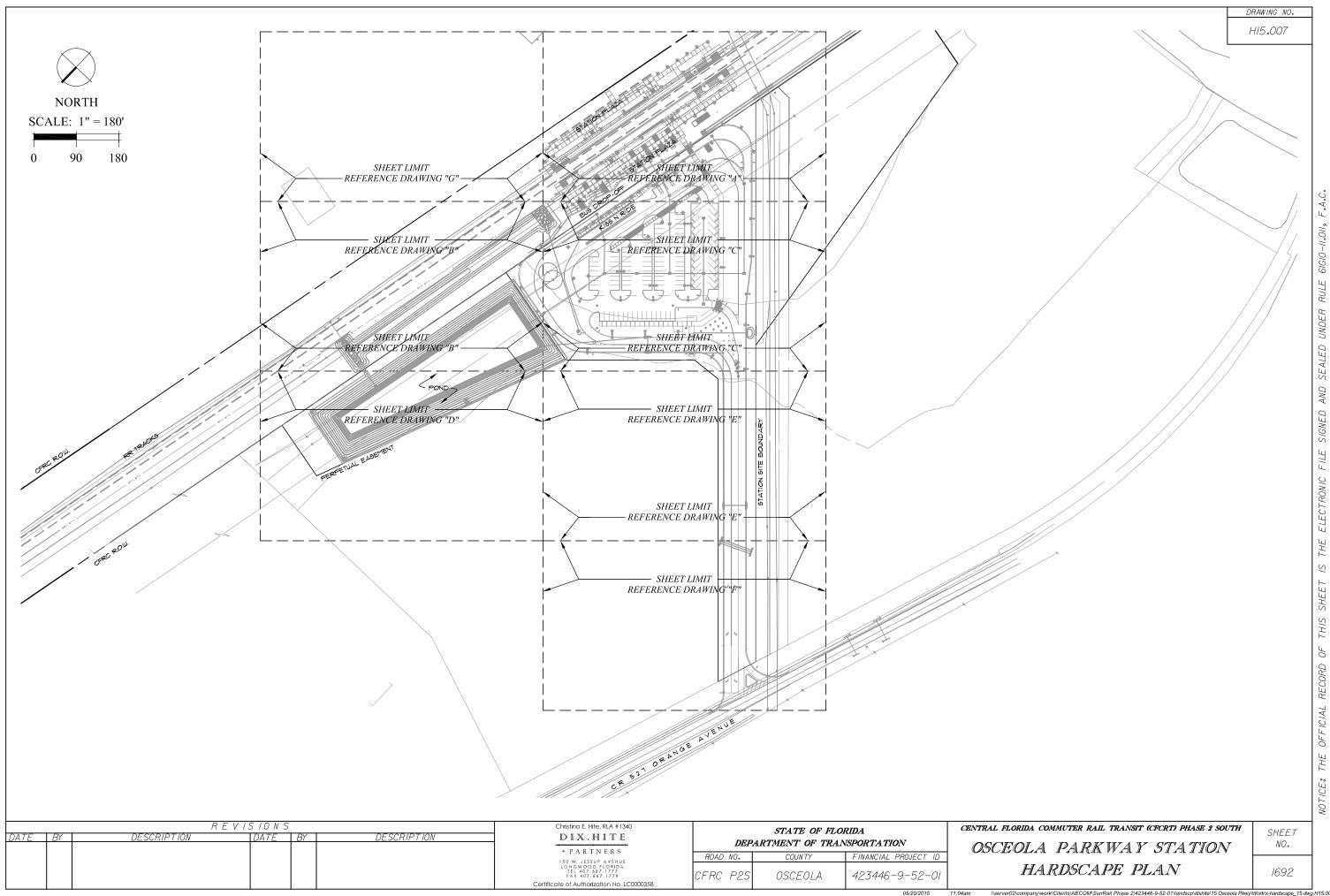


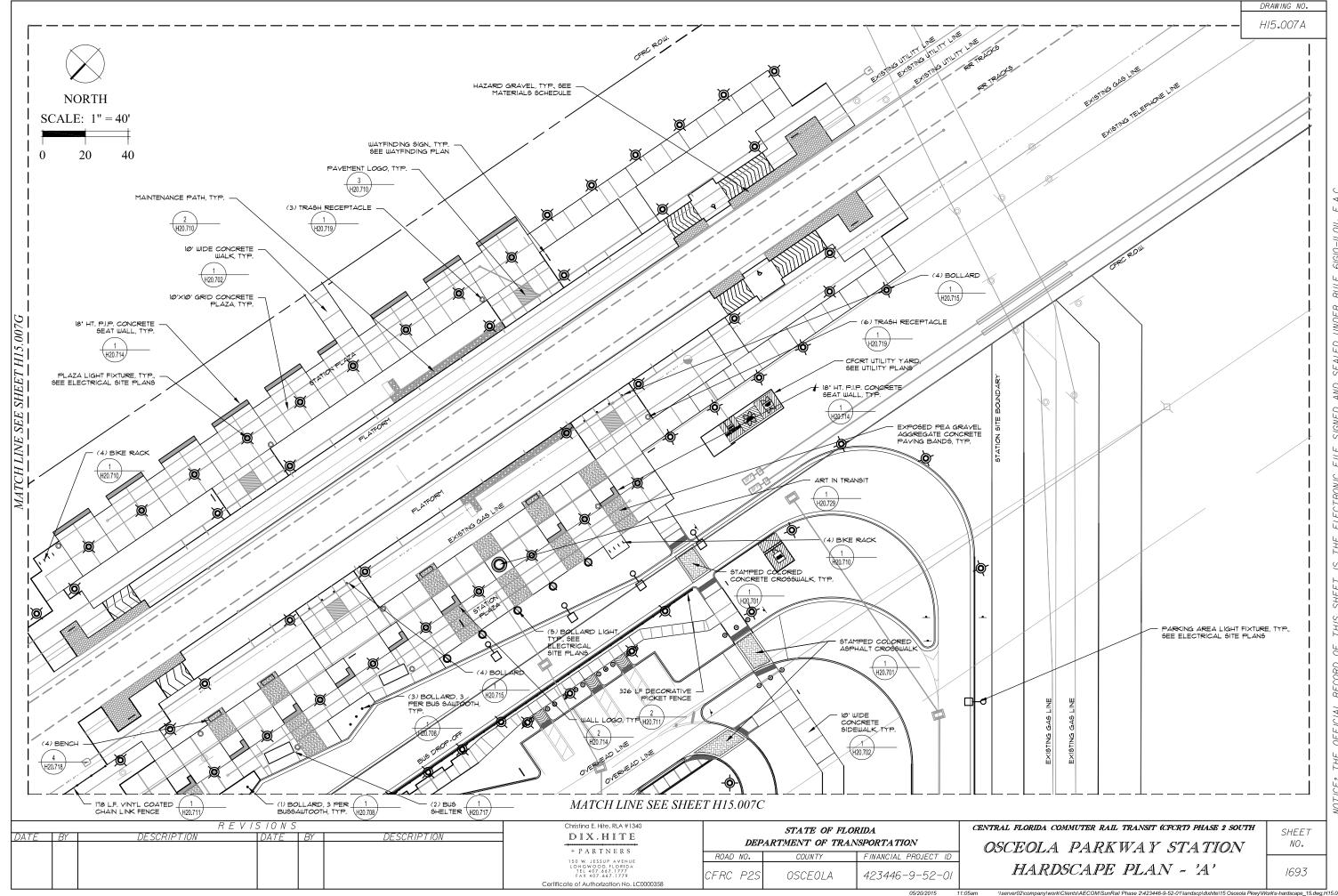


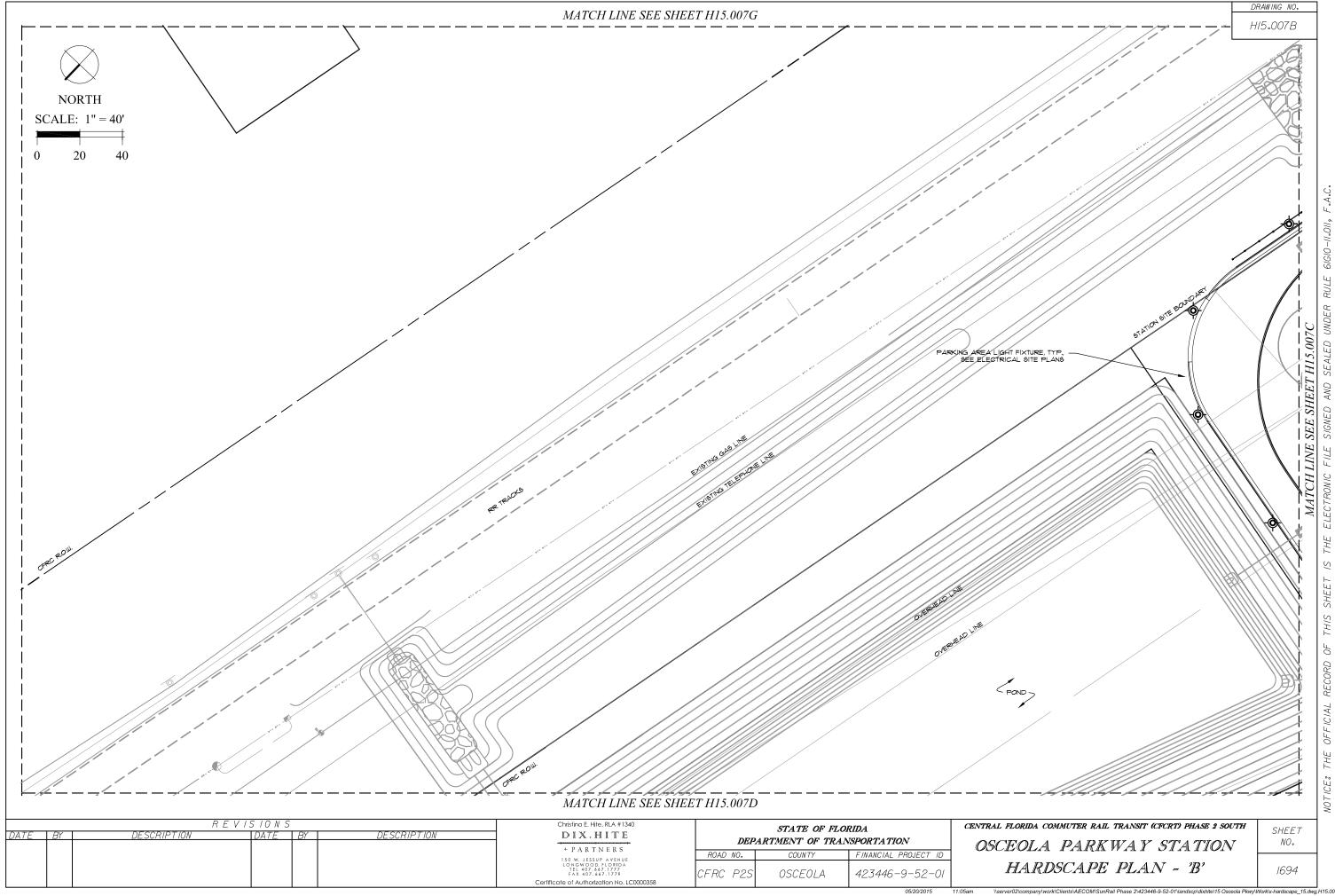


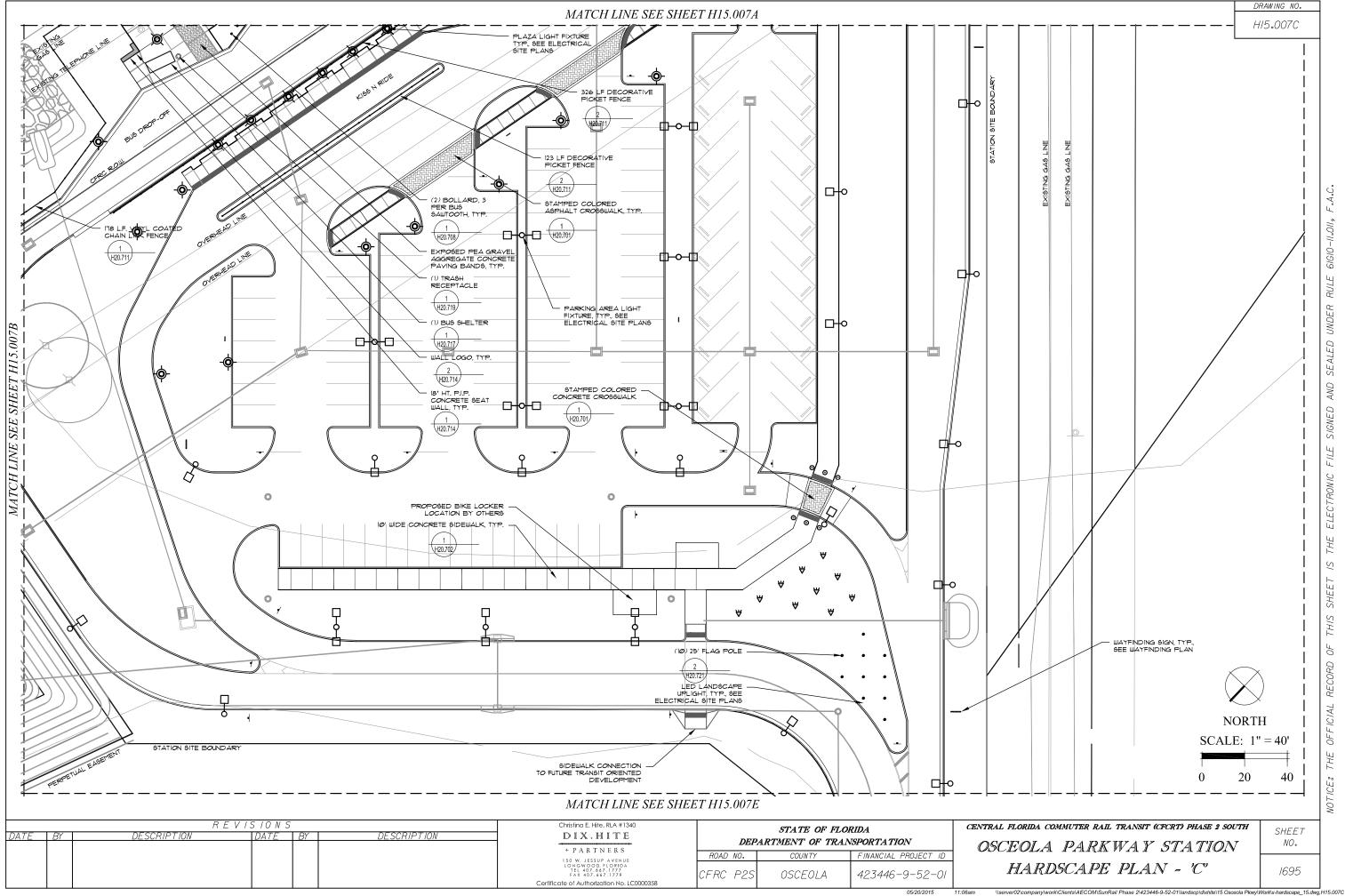


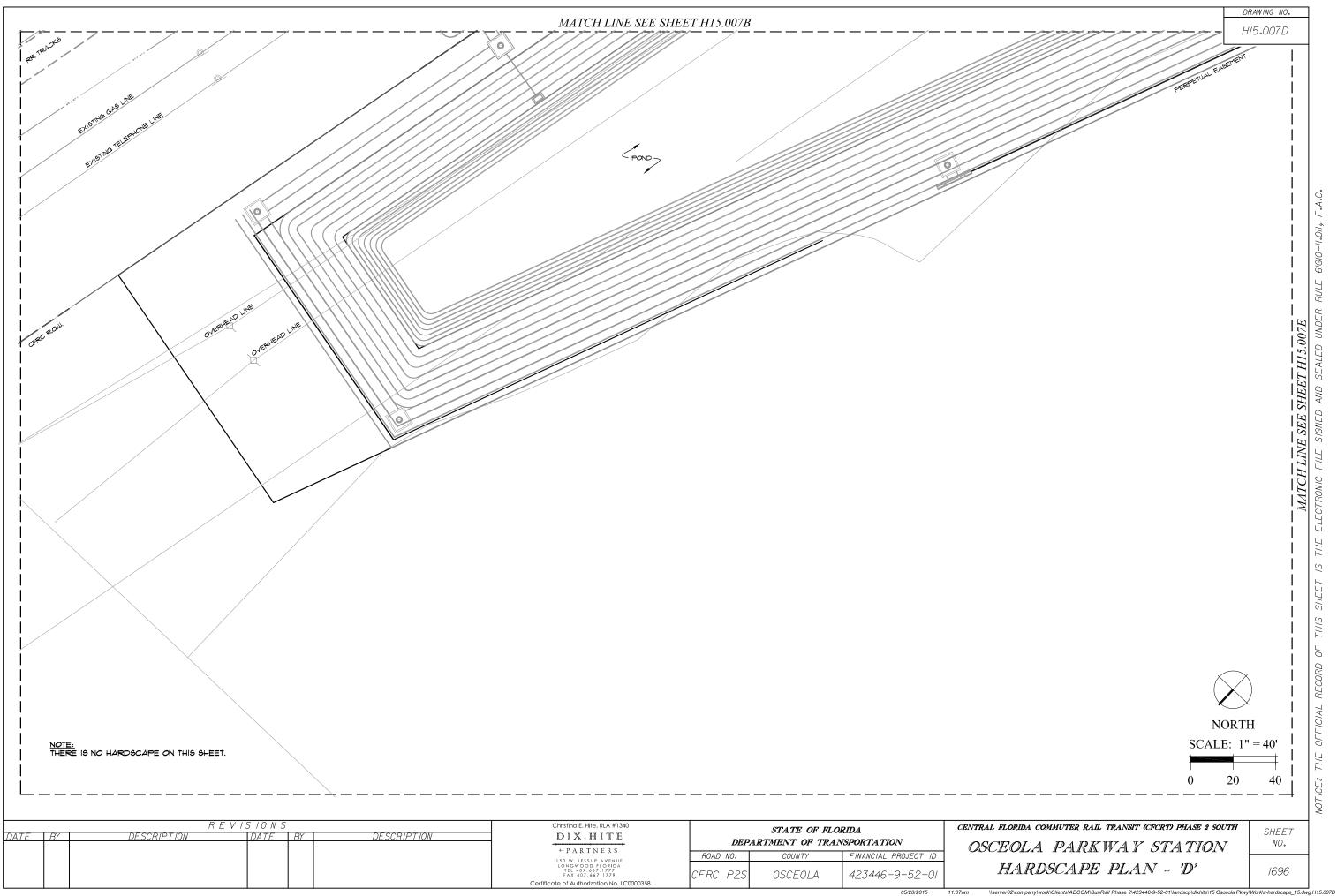


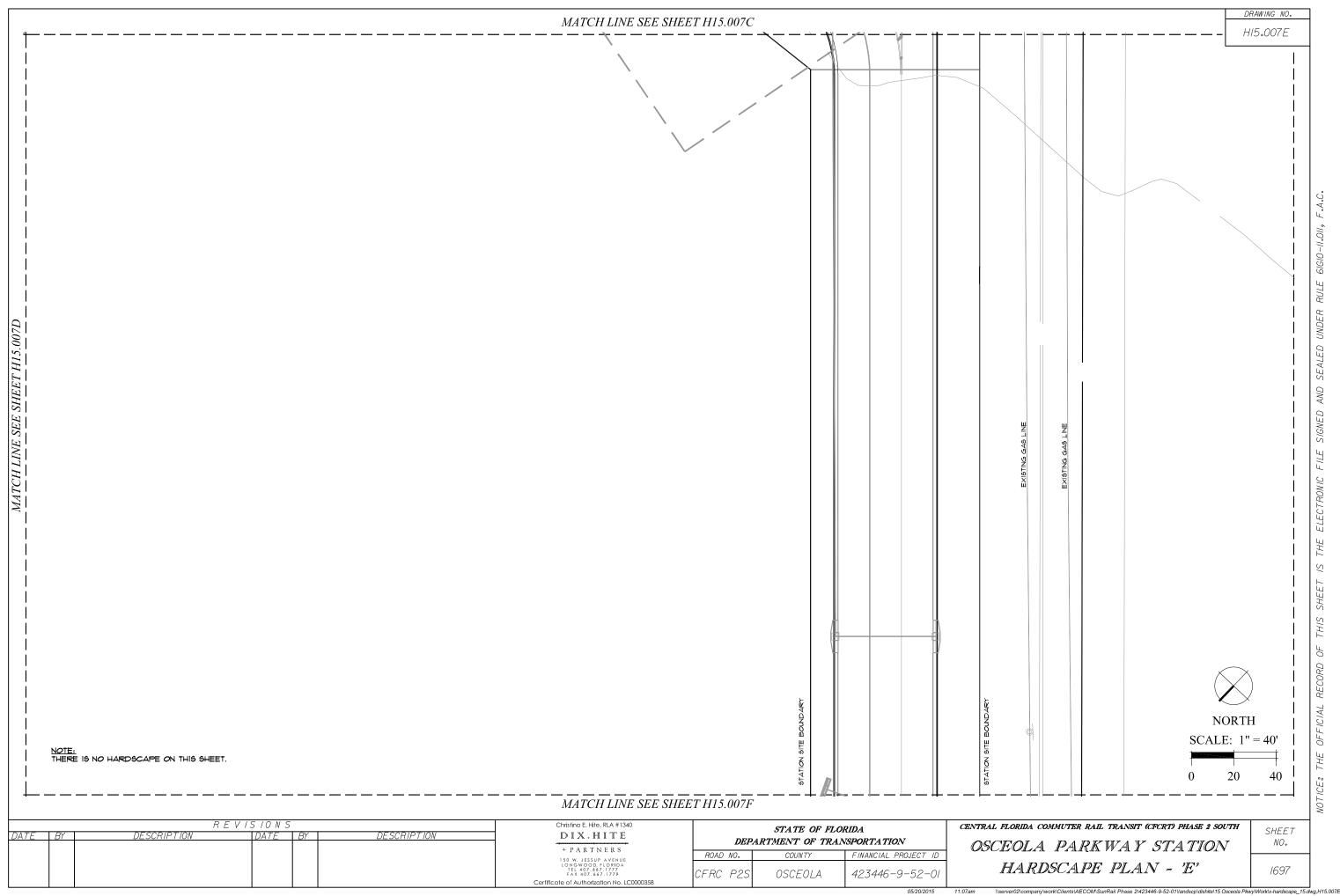


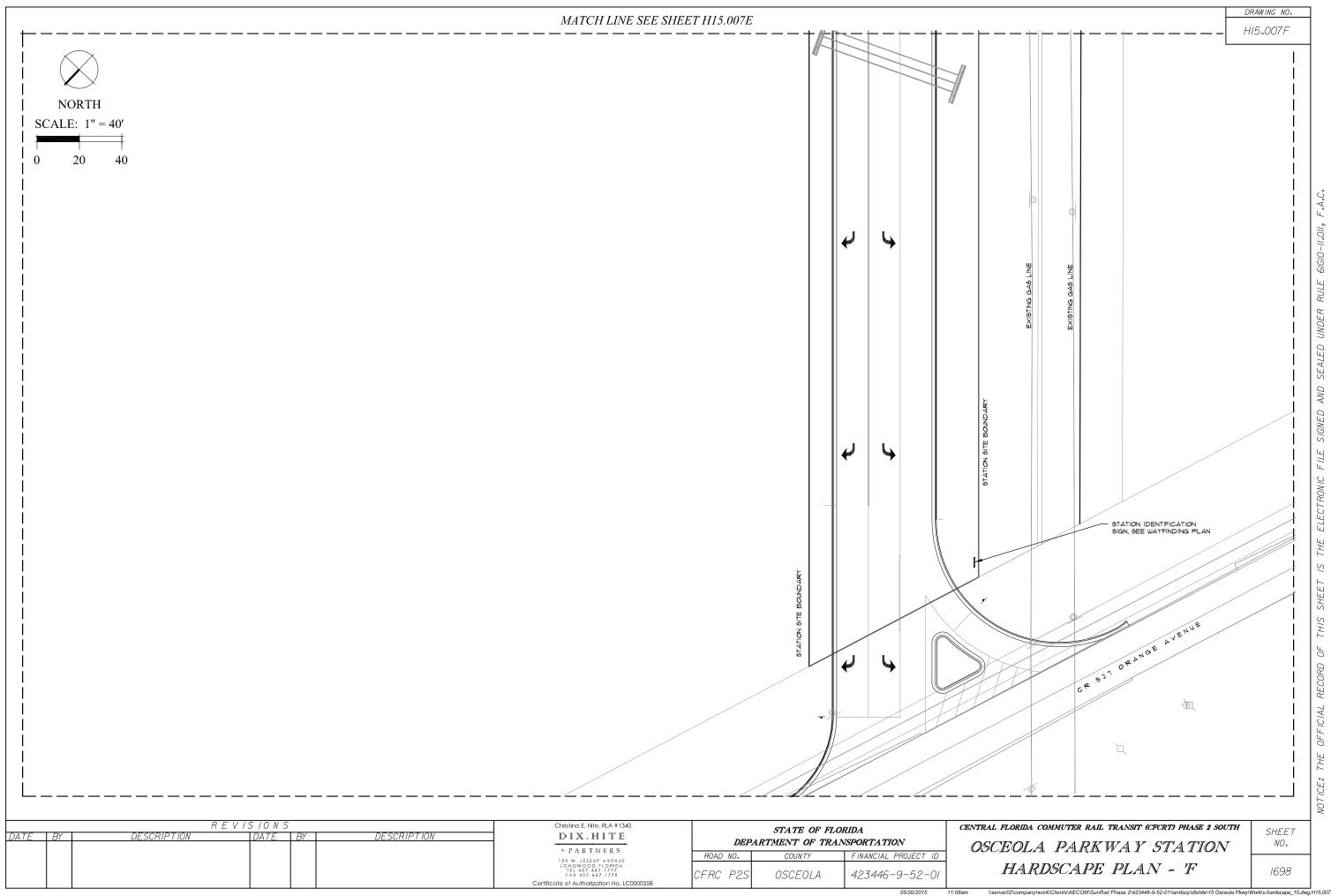


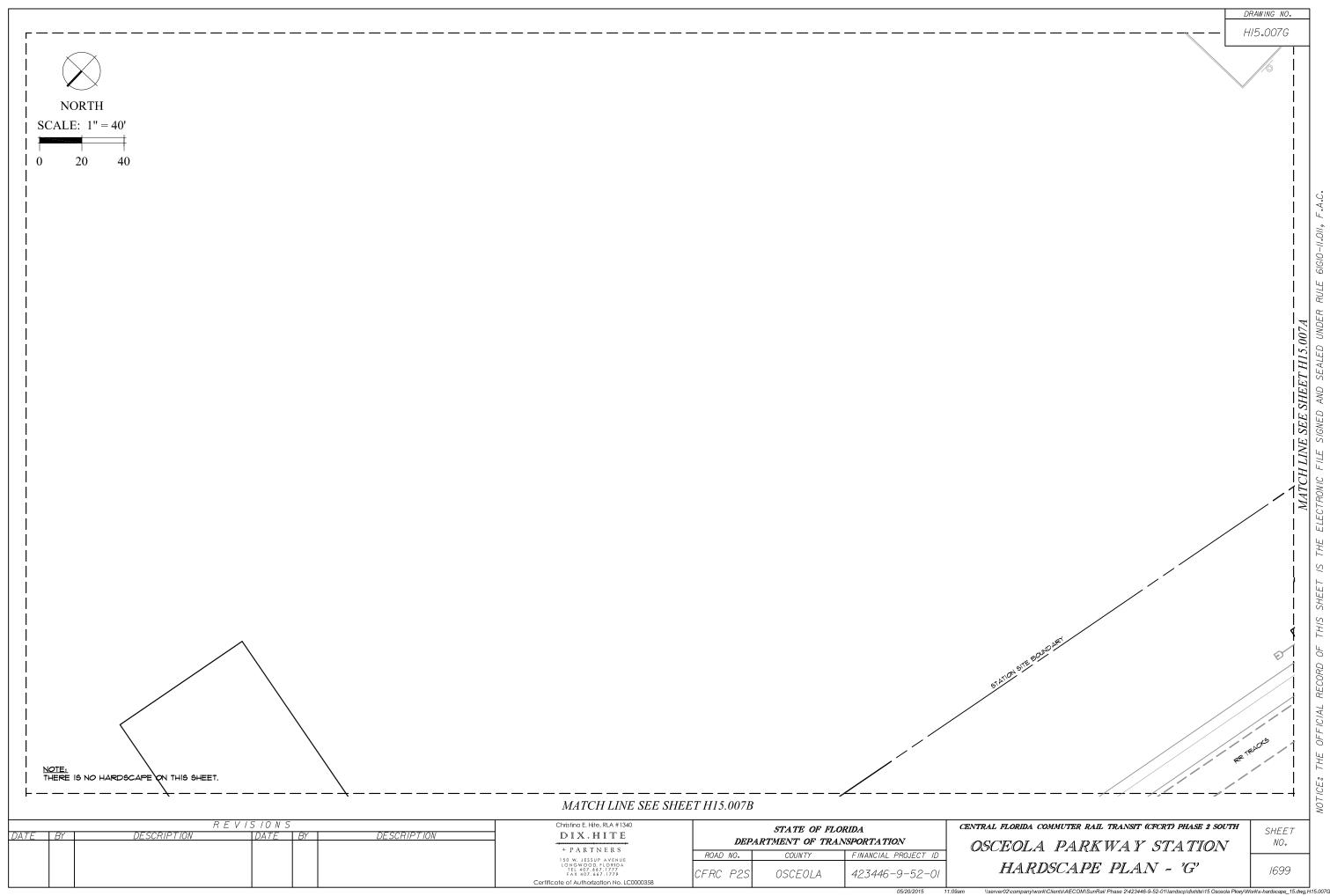


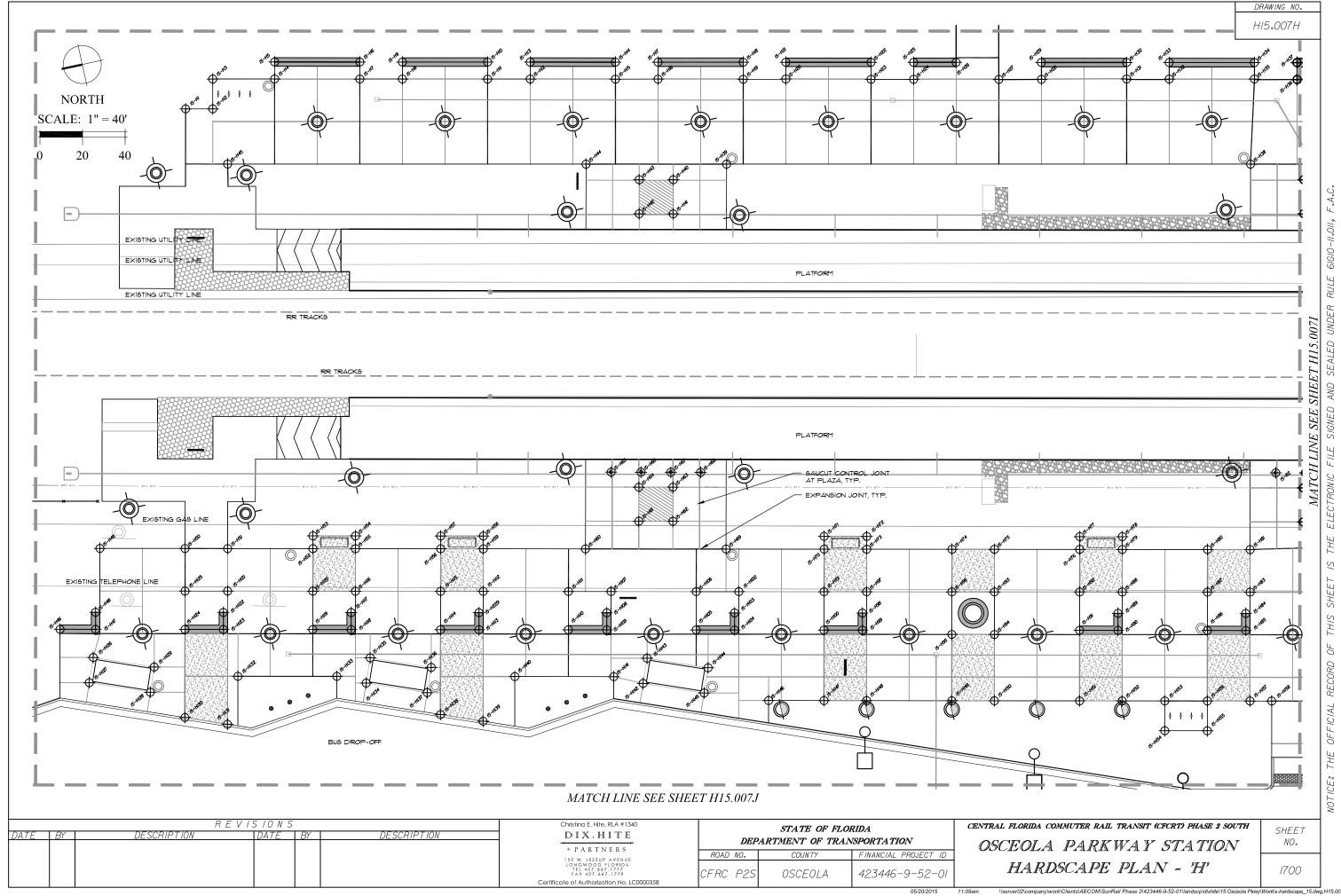


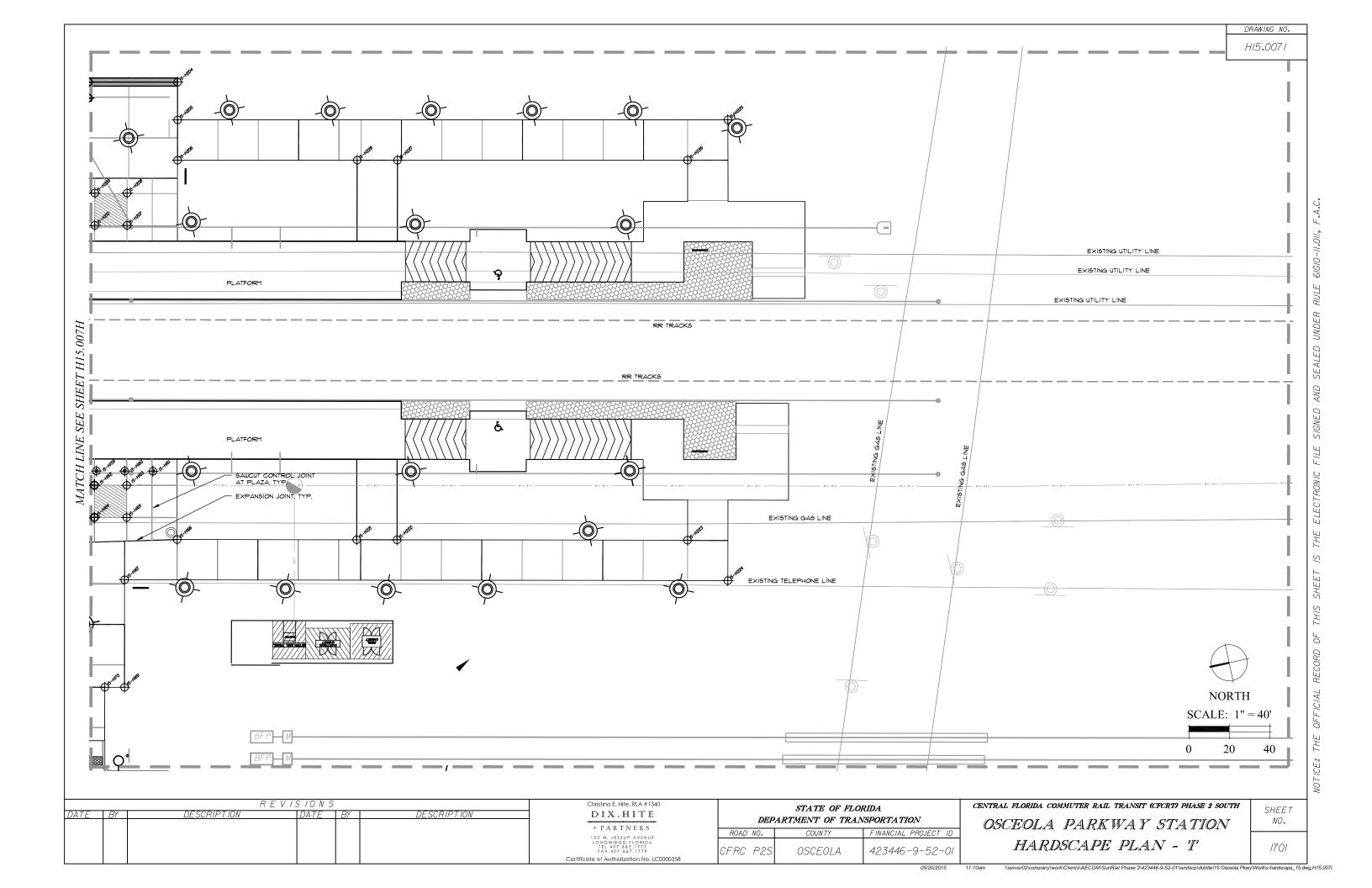


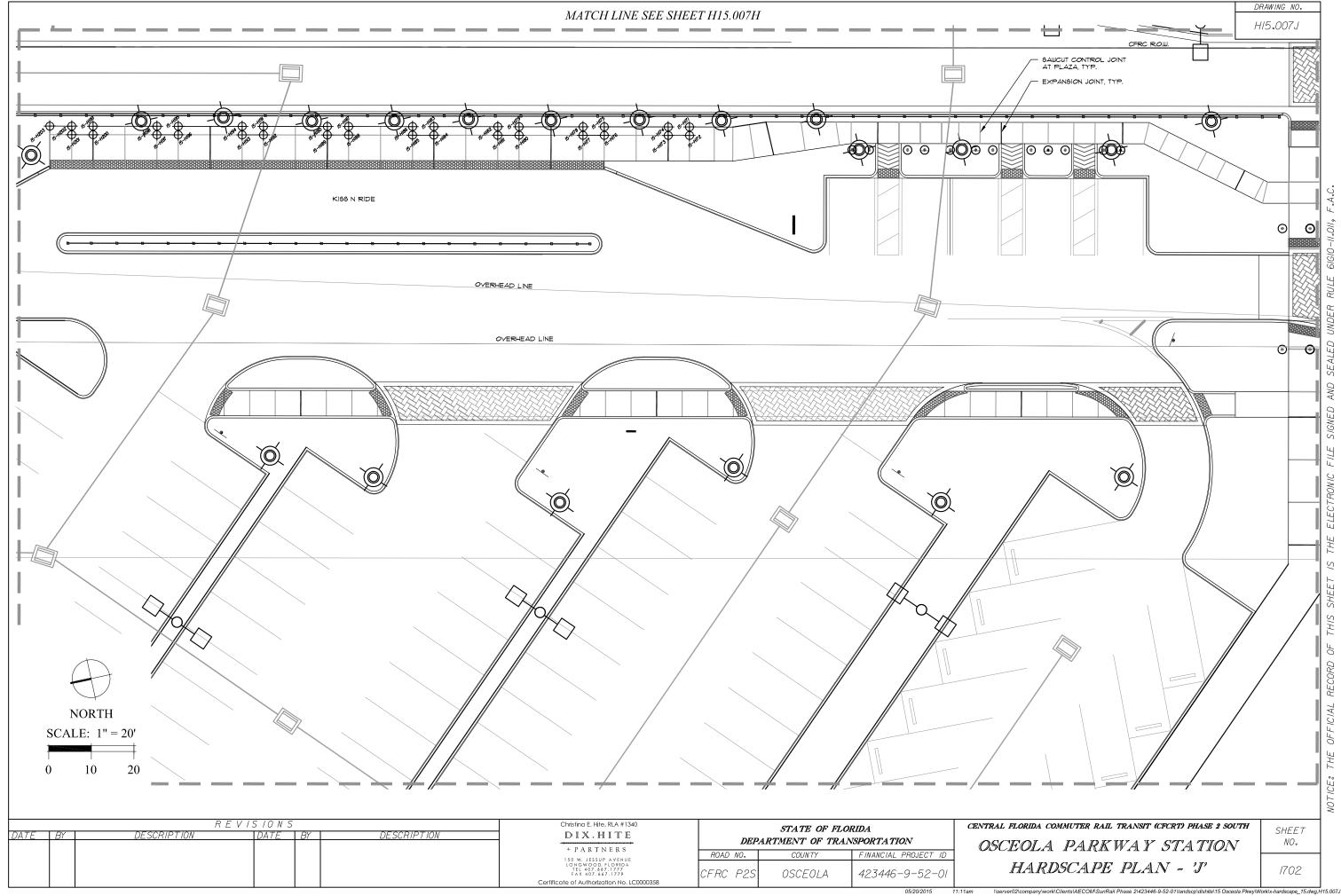


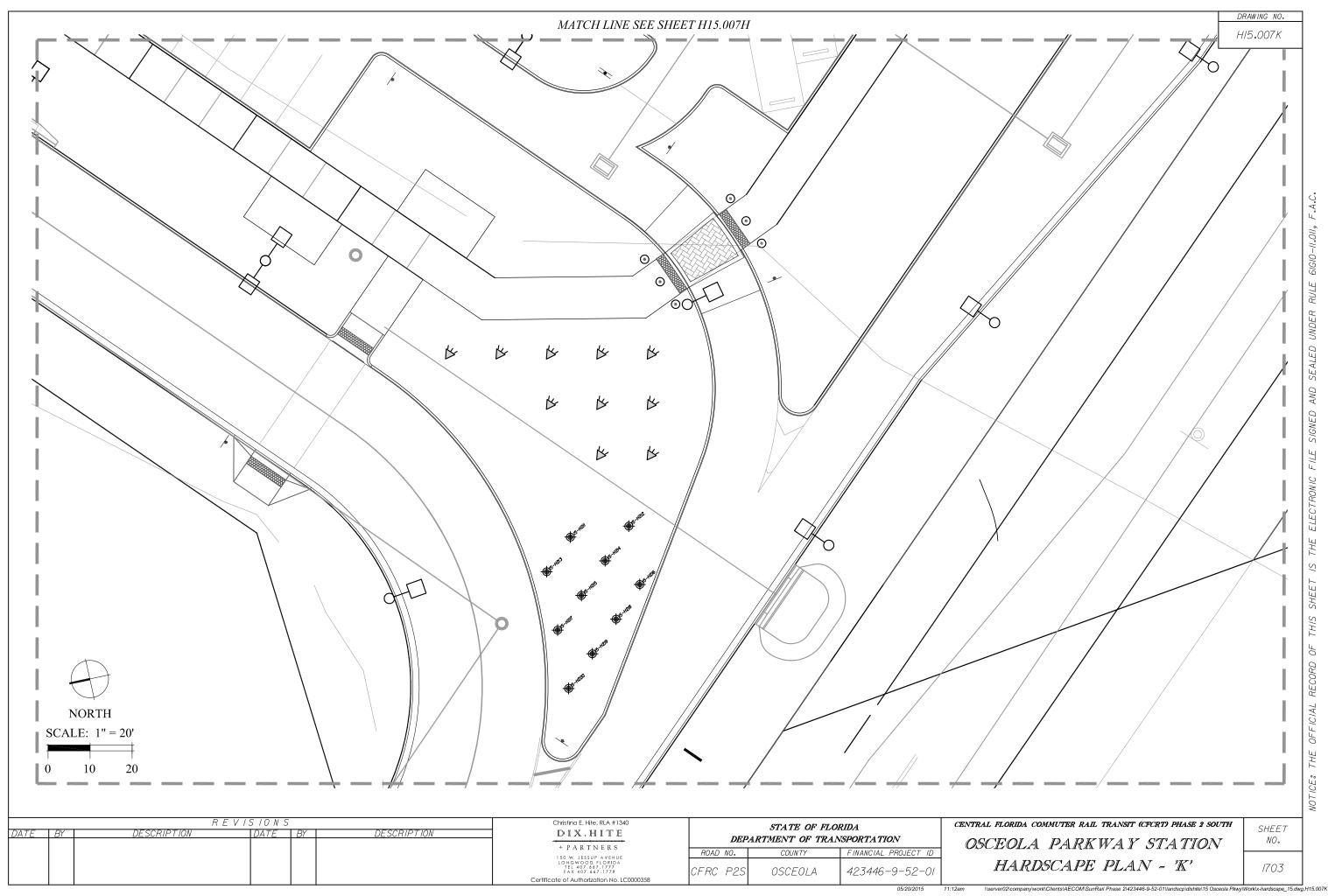












### COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
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15-H2	1457839.4134	530814.9867	End Point
15-H3	1457837.9110	530821.8237	End Point
15-H4	1457823.7262	530818.7558	End Point
15-H5	1457822.8829	530822.6659	Center Point
15-H6	1457803.3432	530818.3995	Center Point
15-H7	1457804.1868	530814.4885	End Point
15-H8	1457794.4172	530812.3621	End Point
15-H9	1457793.5734	530816.2664	Center Point
15-H10	1457774.0337	530812.0000	Center Point
15-H11	1457774.8773	530808.0900	End Point
15-H12	1457765.1033	530805.9761	End Point
15-H13	1457764.2639	530809.8669	Center Point
15-H14	1457744.7242	530805.6006	Center Point
15-H15	1457745.5678	530801.6905	End Point
15-H16	1457735.7938	530799.5766	End Point
15-H17	1457734.9544	530803.4674	Center Point
15-H18	1457715.4147	530799.2011	Center Point
15-H19	1457716.2583	530795.2911	End Point
15-H20	1457706.4794	530793.2298	End Point
15-H21	1457705.6449	530797.0679	Center Point
15-H22	1457686.1052	530792.8016	Center Point
15-H23	1457686.9505	530788.8919	End Point
15-H24	1457677.1764	530786.7780	End Point
15-H25	1457676.3354	530790.6684	Center Point
15-H26	1457666.5984	530788.5424	Center Point
15-H27	1457657.6409	530782.4924	End Point
15-H28	1457647.8653	530780.3782	End Point
15-H29	1457647.0259	530784.2690	Center Point
15-H30	1457627.4862	530780.0026	Center Point
15-H31	1457628.3065	530776.2074	End Point
15-H32	1457618.5340	530774.0804	End Point
15-H33	1457617.7164	530777.8695	Center Point
15-H34	1457598.1767	530773.6031	Center Point
15-H35	1457598.9916	530769.8269	End Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
15-H36	1457589.2483	530767.5703	End Point
15-H37	1457588.4069	530771.4700	Center Point
15-H38	1457604.1312	530750.4849	End Point
15-H39	1457724.3174	530776.6440	End Point
15-H40	1457737.3151	530775.7236	End Point
15-H41	1457739.0308	530767.9097	End Point
15-H42	1457746.8411	530769.6199	End Point
15-H43	1457745.1300	530777.4347	End Point
15-H44	1457756.5625	530783.6623	End Point
15-H45	1457838.7504	530801.5679	End Point
15-H46	1457900.4417	530703.1648	Center Point
15-H47	1457892.2910	530701.3787	Center Point
15-H48	1457891.4346	530705.2868	Center Point
15-H49	1457887.2513	530719.7291	End Point
15-H50	1457867.7283	530715.4578	End Point
15-H51	1457857.9610	530713.3131	End Point
15-H52	1457838.4089	530709.0470	End Point
15-H53	1457837.7679	530711.9777	End Point
15-H54	1457827.9988	530709.8411	End Point
15-H55	1457828.6398	530706.9104	End Point
15-H56	1457809.1016	530702.6373	End Point
15-H57	1457808.4606	530705.5680	End Point
15-H58	1457798.6915	530703.4315	End Point
15-H59	1457799.3325	530700.5008	End Point
15-H60	1457775.8939	530695.3746	End Point
15-H61	1457762.2885	530699.0704	End Point
15-H62	1457754.4737	530697.3592	End Point
15-H63	1457752.7625	530705.1741	End Point
15-H64	1457760.5774	530706.8852	End Point
15-H65	1457766.1759	530711.7172	Center Point
15-H66	1457759.3400	530710.2102	Center Point
15-H67	1457752.4993	530708.7022	Center Point
15-H68	1457745.6683	530707.1963	Center Point
15-H69	1457743.6559	530688.3240	End Point
15-H70	1457721.1798	530683.4083	End Point

		R E V	1510NS			Christina E. Hite, RLA #1340
4 <i>TE</i>	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						+ PARTNERS
						150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
						Certificate of Authorization No. LC00

Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
ROAD	NO.	COUNTY	FINANCIAL PROJECT ID	
^FRC	P2S	OSCEOLA	123116-0-52-01	

CENTRAL FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH OSCEOLA PARKWAY STATION

SHEET NO.

HARDSCAPE PLAN - 'L' 1704

## COORDINATE DATA CHART

(STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
15-H71	1457720.5388	530686.3391	End Point
15-H72	1457710.7697	530684.2025	End Point
15-H73	1457711.4107	530681.2718	End Point
15-H74	1457691.8725	530676.9987	End Point
15-H75	1457682.1034	530674.8621	End Point
15-H76	1457662.5652	530670.5890	End Point
15-H77	1457661.9243	530673.5198	End Point
15-H78	1457652.1552	530671.3832	End Point
15-H79	1457652.7961	530668.4525	End Point
15-H80	1457633.2580	530664.1794	End Point
15-H81	1457623.4961	530662.0442	End Point
15-H82	1457613.7806	530678.3755	Center Point
15-H83	1457625.6254	530652.2737	End Point
15-H84	1457627.6706	530647.6028	Center Point
15-H85	1457628.5270	530643.6947	Center Point
15-H86	1457637.3174	530645.6181	Center Point
15-H87	1457635.3945	530654.4103	End Point
15-H88	1457654.9327	530658.6834	End Point
15-H89	1457656.9779	530654.0125	Center Point
15-H90	1457657.8343	530650.1044	Center Point
15-H91	1457666.6247	530652.0278	Center Point
15-H92	1457664.7018	530660.8199	End Point
15-H93	1457684.2400	530665.0930	End Point
15-H94	1457686.3765	530655.3240	End Point
15-H95	1457696.1456	530657.4605	End Point
15-H96	1457694.0091	530667.2296	End Point
15-H97	1457713.5472	530671.5027	End Point
15-H98	1457715.5924	530666.8318	Center Point
15-H99	1457716.4488	530662.9237	Center Point
15-H100	1457725.2392	530664.8471	Center Point
15-H101	1457723.3163	530673.6393	End Point
15-H102	1457742.8545	530677.9124	End Point
15-H103	1457744.8997	530673.2415	Center Point
15-H104	1457745.7561	530669.3333	Center Point
15-H105	1457754.5465	530671.2567	Center Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
15-H106	1457752.6236	530680.0489	End Point
15-H107	1457772.1618	530684.3220	End Point
15-H108	1457774.2070	530679.6511	Center Point
15-H109	1457775.0634	530675.7430	Center Point
15-H110	1457783.8538	530677.6664	Center Point
15-H111	1457781.9309	530686.4586	End Point
15-H112	1457801.4691	530690.7317	End Point
15-H113	1457804.3707	530682.1526	Center Point
15-H114	1457813.1610	530684.0760	Center Point
15-H115	1457811.2381	530692.8682	End Point
15-H116	1457830.7763	530697.1413	End Point
15-H117	1457832.8216	530692.4701	Center Point
15-H118	1457833.6780	530688.5620	Center Point
15-H119	1457842.4684	530690.4854	Center Point
15-H120	1457840.5454	530699.2779	End Point
15-H121	1457860.0836	530703.5510	End Point
15-H122	1457862.1288	530698.8801	Center Point
15-H123	1457862.9852	530694.9720	Center Point
15-H124	1457871.7756	530696.8954	Center Point
15-H125	1457869.8527	530705.6875	End Point
15-H126	1457894.2261	530695.0349	End Point
15-H127	1457896.3955	530689.4408	End Point
15-H128	1457882.8710	530684.1960	End Point
15-H129	1457880.7068	530689.7921	End Point
15-H130	1457876.1984	530676.6728	End Point
15-H131	1457866.7623	530673.0135	End Point
15-H132	1457861.9827	530683.4936	End Point
15-H133	1457839.3007	530678.5329	End Point
15-H134	1457832.9007	530675.5336	End Point
15-H135	1457830.7313	530681.1277	End Point
15-H136	1457817.2120	530675.8850	End Point
15-H137	1457819.3761	530670.2889	End Point
15-H138	1457817.4216	530664.5952	End Point
15-H139	1457807.9855	530660.9360	End Point
15-H140	1457798.4836	530669.6060	End Point

$R \ E \ V \ I S \ I O \ N \ S$				Christina E. Hite, RLA #1340
TE BY	DESCRIPTION	DATE BY	DESCRIPTION	
				+ PARTNERS
				150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
				Certificate of Authorization No. LCC

Christina E. Hite, RLA #1340	
DIX.HITE	DEPART
+ PARTNERS	ROAD NO.
LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779	CFRC P2S

CENTRAL I	STATE OF FLORIDA			
<i>OSC</i>	ISPORTATION FINANCIAL PROJECT ID	PARTMENT OF TRAN	<i>DEP</i>	
1	423446-9-52-0/	OSCEOLA	: P2S	

FLORIDA COMMUTER RAIL TRANSIT (CFCRT) PHASE 2 SOUTH CEOLA PARKWAY STATION HARDSCAPE PLAN - 'M'

SHEET NO.

# COORDINATE DATA CHART (STATE PLANE COORDINATE SYSTEM)

POINT NAME	NORTHING	EASTING	DESCRIPTION
15-H141	1457775.8016	530664.6453	End Point
15-H142	1457769.4058	530661.6264	End Point
15-H143	1457767.2365	530667.2205	End Point
15-H144	1457753.7172	530661.9778	End Point
15-H145	1457755.8813	530656.3817	End Point
15-H146	1457741.4792	530651.4376	End Point
15-H147	1457728.7794	530648.6601	End Point
15-H148	1457719.0103	530646.5236	End Point
15-H149	1457699.4721	530642.2505	End Point
15-H150	1457689.7030	530640.1139	End Point
15-H151	1457670.1649	530635.8408	End Point
15-H152	1457660.3958	530633.7042	End Point
15-H153	1457650.6267	530631.5677	End Point
15-H154	1457652.1223	530624.7293	End Point
15-H155	1457642.3532	530622.5928	End Point
15-H156	1457640.8576	530629.4311	End Point
15-H157	1457631.0885	530627.2946	End Point
15-H158	1457626.1087	530626.2055	End Point
15-H159	1457606.9447	530676.8685	Center Point
15-H160	1457600.1040	530675.3605	Center Point
15-H161	1457593.2730	530673.8546	Center Point
15-H162	1457608.1836	530673.5366	End Point
15-H163	1457600.3687	530671.8255	End Point
15-H164	1457609.8947	530665.7217	End Point
15-H165	1457602.0799	530664.0106	End Point
15-H166	1457591.0256	530656.0223	End Point
15-H167	1457605.8613	530649.0338	End Point
15-H168	n/a	n/a	n/a
15-H169	1457611.5503	530623.0215	End Point
15-H170	1457616.3396	530624.0689	End Point
15-H171	1457772.6729	530614.5982	End Point
15-H172	1457773.1009	530612.6445	End Point
15-H173	1457777.9851	530613.7143	End Point
15-H174	1457777.5572	530615.6679	End Point
15-H175	1457792.2098	530618.8773	End Point

POINT NAME	NORTHING	EASTING	DESCRIPTION
15-H176	1457792.6377	530616.9236	End Point
15-H177	1457797.5219	530617.9934	End Point
15-H178	1457797.0940	530619.9471	End Point
15-H179	1457811.7467	530623.1564	End Point
15-H180	1457812.1746	530621.2027	End Point
15-H181	1457817.0588	530622.2725	End Point
15-H182	1457816.6309	530624.2262	End Point
15-H183	1457831.2835	530627.4356	End Point
15-H184	1457831.7114	530625.4819	End Point
15-H185	1457836.5957	530626.5516	End Point
15-H186	1457836.1677	530628.5053	End Point
15-H187	1457850.8204	530631.7147	End Point
15-H188	1457851.2483	530629.7610	End Point
15-H189	1457856.1325	530630.8308	End Point
15-H190	1457855.7046	530632.7845	End Point
15-H191	1457870.3573	530635.9938	End Point
15-H192	1457870.7852	530634.0401	End Point
15-H193	1457875.6694	530635.1099	End Point
15-H194	1457875.2415	530637.0636	End Point
15-H195	1457889.8941	530640.2729	End Point
15-H196	1457890.3220	530638.3193	End Point
15-H197	1457895.2063	530639.3890	End Point
15-H198	1457894.7783	530641.3427	End Point
15-H199	1457909.4310	530644.5521	End Point
15-H200	1457909.8589	530642.5984	End Point
15-H201	1457914.7431	530643.6682	End Point
15-H202	1457914.3152	530645.6219	End Point
15-H203	1457919.3523	530646.7251	End Point
15-H204	1457566.8049	530766.7534	Center Point
15-H205	1457568.7884	530757.6142	End Point
15-H206	1457570.9273	530747.8456	End Point
15-H207	1457586.5949	530734.7314	End Point
15-H208	1457584.8838	530742.5463	End Point
15-H209	1457592.6986	530744.2574	End Point
15-H210	1457594.4098	530736.4426	End Point

	R	EVISIONS		Christina E. Hite, RLA #1340
TE BY	DESCRIPTION	DATE BY	DESCRIPTION	
				+ PARTNERS
				150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779
				Certificate of Authorization No. LC0

Christina E. Hite, RLA #1340
+ PARTNERS
150 W. JESSUP AVENUE LONGWOOD, FLORIDA TEL 407.667.1777 FAX 407.667.1779

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
CERC P25	OSCFOLA	423446-9-52-01	

ENTRAL FLO	ORIDA CON	MMUTER RAIL	TRANSIT	(CFCRT)	PHASE 2 SO	UTH
OSCE	OLA	PARK	WAY	STA	A TION	V
H	ARD	SCA PE	PLA	N =	<sup>9</sup> N <sup>9</sup>	

SHEET NO.	
700	