METROPOLITAN COUNCIL

SOUTHWEST
Green Line LRT Extension

PLAN PACKAGE INDEX / DESCRIPTION	
CIVIL CONSTRUCTION	BID ALTERNATES
VOLUME 1 - EXISTING CONDITIONS & REMOVALS	VOLUME A - NOT USED
VOLUME 2A - CIVIL	VOLUME B - NOT USED
VOLUME 2B - CIVIL	VOLUME C - BID ALTERNATE 3 (LRCI 5) ▲
VOLUME 3A - TRACKWORK	VOLUME D - BID ALTERNATE 4 (LRCI 6) ▲
VOLUME 3B - TRACKWORK	VOLUME E - BID ALTERNATE 5 (LRCI 7) ▲
VOLUME 3C - TRACKWORK DETAILS	VOLUME F - BID ALTERNATE 6 (LRCI 8) ▲
VOLUME 4A - BRIDGES	VOLUME G - BID ALTERNATE 7 (LRCI 4) ▲
VOLUME 4B - BRIDGES	VOLUME H - BID ALTERNATE 8 (LRCI 10) ▲
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VOLUME 4F - BRIDGES	VOLUME L - BID ALTERNATE 12 (LRCI 14)
VOLUME 4G - BRIDGES	VOLUME M - BID ALTERNATE 13 (LRCI 26)
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VOLUME 11B - STATIONS	
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* TO BE SUBMITTED AT A LATER DATE
▲ SUBMITTED AT 75%, NOT INCLUDED IN 90%

CIVIL CONSTRUCTION

VOLUME 12
SYSTEMS

THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL.

THE COUNCIL, THROUGH THE DEVELOPMENT OF THESE PLANS, DOES NOT INTEND THAT THEY WILL PREJUDICE OR COMPROMISE ANY STATE OR FEDERAL ENVIRONMENTAL REVIEW OR OTHER LEGAL REQUIREMENTS. THESE PLANS DO NOT LIMIT THE PROJECT DESIGN ALTERNATIVES OR MITIGATIVE MEASURES THAT THE COUNCIL MAY UNDERTAKE IF THE PROPOSED SWLRT PROJECT PROCEEDS TO CONSTRUCTION.

THE COUNCIL WILL NOT TAKE FINAL ACTION ON THIS MATTER UNLESS THE COUNCIL PROCEEDS WITH THE PROJECT AFTER THE FTA'S RECORD OF DECISION AND THE COUNCIL'S DETERMINATION OF ADEQUACY.

90% SUBMISSION
DATE : 01/22/16

AECOM

Jan. 22 2016 07:23 am V:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\COVER SHEETS 90%\90% GEN-IDX_VOL_12-13.dwg By: V-KriewaMR

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME 12 - SYSTEMS			
1	00-GEN-CVR-001	COVER SHEET			
2	00-GEN-IDX-001	VOLUME INDEX OF PLAN SHEETS SHEET 1			
3	00-GEN-IDX-002	VOLUME INDEX OF PLAN SHEETS SHEET 2			
4	00-GEN-IDX-003	VOLUME INDEX OF PLAN SHEETS SHEET 3			
5	W0-GEN-KEY-001	GENERAL KEY MAP SHEET 1			
6	E0-GEN-KEY-002	GENERAL KEY MAP SHEET 2			
7	00-GEN-NTS-001	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS SHEET 1			
8	00-GEN-NTS-002	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS SHEET 2			
9	W0-SYS-SWE-LAY-001	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 1			
10	W0-SYS-SWE-LAY-002	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 2			
11	W0-SYS-SWE-LAY-003	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 3			
12	E0-SYS-SWE-LAY-001	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 4			
13	E0-SYS-SWE-LAY-002	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 5			
14	E0-SYS-SWE-LAY-003	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 6			
15	E0-SYS-SWE-LAY-004	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 7			
16	E0-SYS-SWE-LAY-005	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 8			
17	E0-SYS-SWE-LAY-006	SYSTEMWIDE ELECTRICAL PLAN SHEET LAYOUT SHEET 9			
18	E0-SYS-SWE-LGD-001	SYSTEMWIDE ELECTRICAL SYMBOLS AND GENERAL NOTES			
19	E0-SYS-SWE-LGD-002	SYSTEMWIDE ELECTRICAL ABBREVIATIONS SHEET 1			
20	E0-SYS-SWE-LGD-003	SYSTEMWIDE ELECTRICAL ABBREVIATIONS SHEET 2			
21	W0-SYS-SWE-TYP-001	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 1			
22	W0-SYS-SWE-TYP-002	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 2			
23	W0-SYS-SWE-TYP-003	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 3			
24	W0-SYS-SWE-TYP-004	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 4			
25	W0-SYS-SWE-TYP-005	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 5			
26	W0-SYS-SWE-TYP-006	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 6			
27	W0-SYS-SWE-TYP-007	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 7			
28	W0-SYS-SWE-TYP-008	SYSTEMWIDE ELECTRICAL TYPICAL SECTIONS SHEET 8			
29	W1-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2077+80	2084+00	
30	W1-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2077+80	2084+00	
31	W1-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2084+00	2089+50	
32	W1-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2084+00	2089+50	
33	W1-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2089+50	2096+00	
34	W1-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2089+50	2096+00	
35	W1-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2096+00	2103+00	
36	W1-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2096+00	2103+00	
37	W1-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2103+00	2109+50	
38	W1-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2103+00	2109+50	
39	W1-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2109+50	2114+00	
40	W1-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2109+50	2114+00	
41	W1-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2114+00	2120+50	
42	W1-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2114+00	2120+50	
43	W1-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2120+50	2126+50	
44	W1-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2120+50	2126+50	
45	W1-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2126+50	2133+50	
46	W1-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2126+50	2133+50	
47	W1-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2133+50	2140+50	
48	W1-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2133+50	2140+50	
49	W1-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2140+50	2147+50	
50	W1-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2140+50	2147+50	
51	W1-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2147+50	2154+50	
52	W1-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2147+50	2154+50	
53	W1-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2154+50	2161+00	
54	W1-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2154+50	2161+00	

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
55	W1-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2161+00	2165+50	
56	W1-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2161+00	2165+50	
57	W1-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2165+50	2169+50	
58	W1-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2165+50	2169+50	
59	W1-SYS-SWE-PRF-016	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2169+50	2173+69.94	
60	W1-SYS-SWE-SCH-016	SYSTEMWIDE ELECTRICAL SCHEDULE	2169+50	2173+69.94	
61	W2-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2206+00	2213+00	
62	W2-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2206+00	2213+00	
63	W2-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2213+00	2220+50	
64	W2-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2213+00	2220+50	
65	W2-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2220+50	2227+50	
66	W2-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2220+50	2227+50	
67	W2-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2227+50	2234+50	
68	W2-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2227+50	2234+50	
69	W2-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2234+50	2240+50	
70	W2-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2234+50	2240+50	
71	W2-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2240+50	2247+50	
72	W2-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2240+50	2247+50	
73	W2-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2247+50	2254+50	
74	W2-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2247+50	2254+50	
75	W2-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2254+50	2261+50	
76	W2-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2254+50	2261+50	
77	W2-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2261+50	2268+50	
78	W2-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2261+50	2268+50	
79	W2-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2268+50	2275+50	
80	W2-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2268+50	2275+50	
81	W2-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2275+50	2282+50	
82	W2-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2275+50	2282+50	
83	W2-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2282+50	2289+50	
84	W2-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2282+50	2289+50	
85	W2-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2289+50	2295+00	
86	W2-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2289+50	2295+00	
87	W2-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2295+00	2302+00	
88	W2-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2295+00	2302+00	
89	W2-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2302+00	2308+50	
90	W2-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2302+00	2308+50	
91	W2-SYS-SWE-PRF-016	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2308+50	2315+00	
92	W2-SYS-SWE-SCH-016	SYSTEMWIDE ELECTRICAL SCHEDULE	2308+50	2315+00	
93	W2-SYS-SWE-PRF-017	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2315+00	2320+55.80	
94	W2-SYS-SWE-SCH-017	SYSTEMWIDE ELECTRICAL SCHEDULE	2315+00	2320+55.80	
95	W3-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2335+00	2339+50	
96	W3-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2335+00	2339+50	
97	W3-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2339+50	2345+50	
98	W3-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2339+50	2345+50	
99	W3-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2345+50	2352+50	
100	W3-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2345+50	2352+50	
101	W3-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2352+50	2359+50	
102	W3-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2352+50	2359+50	
103	W3-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2359+50	2366+50	
104	W3-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2359+50	2366+50	
105	W3-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2366+50	2373+50	
106	W3-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2366+50	2373+50	
107	W3-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2373+50	2378+50	
108	W3-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2373+50	2378+50	
109	W3-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2378+50	2384+50	
110	W3-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2378+50	2384+50	
111	W3-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2384+50	2391+00	
112	W3-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2384+50	2391+00	
113	W3-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2391+00	2397+50	
114	W3-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2391+00	2397+50	
115	W3-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2397+50	2404+00	
116	W3-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2397+50	2404+00	
117	W3-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2404+00	2410+50	
118	W3-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2404+00	2410+50	
119	W3-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2410+50	2417+00	
120	W3-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2410+50	2417+00	
121	W3-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2417+00	2422+00	
122	W3-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2417+00	2422+00	
123	W3-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2422+00	2428+50	
124	W3-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2422+00	2428+50	
125	W3-SYS-SWE-PRF-016	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2428+50	2435+50	
126	W3-SYS-SWE-SCH-016	SYSTEMWIDE ELECTRICAL SCHEDULE	2428+50	2435+50	
127	W3-SYS-SWE-PRF-017	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2435+50	2441+49.22	

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
128	W3-SYS-SWE-SCH-017	SYSTEMWIDE ELECTRICAL SCHEDULE	2435+50	2441+49.22	
129	E1-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2496+00.21	2502+50	
130	E1-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2496+00.21	2502+50	
131	E1-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2502+50	2509+50	
132	E1-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2502+50	2509+50	
133	E1-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2509+50	2516+50	
134	E1-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2509+50	2516+50	
135	E1-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2516+50	2523+50	
136	E1-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2516+50	2523+50	
137	E1-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2523+50	2529+50	
138	E1-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2523+50	2529+50	
139	E1-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2529+50	2536+00	
140	E1-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2529+50	2536+00	
141	E1-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2536+00	2542+00	
142	E1-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2536+00	2542+00	
143	E1-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2542+00	2546+50	
144	E1-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2542+00	2546+50	
145	E1-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2546+50	2553+00	
146	E1-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2546+50	2553+00	
147	E1-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2553+00	2559+50	
148	E1-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2553+00	2559+50	
149	E1-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2559+50	2566+50	
150	E1-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2559+50	2566+50	
151	E1-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2566+50	2573+50	
152	E1-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2566+50	2573+50	
153	E1-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2573+50	2580+50	
154	E1-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2573+50	2580+50	
155	E1-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2580+50	2587+50	
156	E1-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2580+50	2587+50	
157	E1-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2587+50	2596+50	
158	E1-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2587+50	2596+50	
159	E2-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2596+50	2602+00	
160	E2-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2596+50	2602+00	
161	E2-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2602+00	2609+00	
162	E2-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2602+00	2609+00	
163	E2-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2609+00	2616+00	
164	E2-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2609+00	2616+00	
165	E2-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2616+00	2623+00	
166	E2-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2616+00	2623+00	
167	E2-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2623+00	2630+00	
168	E2-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2623+00	2630+00	
169	E2-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2630+00	2637+00	
170	E2-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2630+00	2637+00	
171	E2-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2637+00	2644+00	
172	E2-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2637+00	2644+00	
173	E2-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2644+00	2649+50	
174	E2-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2644+00	2649+50	
175	E2-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2649+50	2655+00	
176	E2-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2649+50	2655+00	
177	E2-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2655+00	2660+50	
178	E2-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2655+00	2660+50	
179	E2-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2660+50	2666+00	
180	E2-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2660+50	2666+00	
181	E2-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2666+00	2673+00	
182	E2-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2666+00	2673+00	
183	E2-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2673+00	2680+00	
184	E2-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2673+00	2680+00	
185	E2-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2680+00	2687+00	
186	E2-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2680+00	2687+00	
187	E2-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2687+00	2694+00	
188	E2-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2687+00	2694+00	
189	E2-SYS-SWE-PRF-016	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2694+00	2699+00	
190	E2-SYS-SWE-SCH-016	SYSTEMWIDE ELECTRICAL SCHEDULE	2694+00	2699+00	
191	E2-SYS-SWE-PRF-017	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2699+00	2704+00	
192	E2-SYS-SWE-SCH-017	SYSTEMWIDE ELECTRICAL SCHEDULE	2699+00	2704+00	
193	E2-SYS-SWE-PRF-018	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2704+00	2710+00	
194	E2-SYS-SWE-SCH-018	SYSTEMWIDE ELECTRICAL SCHEDULE	2704+00	2710+00	
195	E2-SYS-SWE-PRF-019	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2710+00	2717+00	
196	E2-SYS-SWE-SCH-019	SYSTEMWIDE ELECTRICAL SCHEDULE	2710+00	2717+00	
197	E2-SYS-SWE-PRF-020	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2717+00	2724+00	
198	E2-SYS-SWE-SCH-020	SYSTEMWIDE ELECTRICAL SCHEDULE	2717+00	2724+00	
199	E2-SYS-SWE-PRF-021	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2724+00	2731+00	
200	E2-SYS-SWE-SCH-021	SYSTEMWIDE ELECTRICAL SCHEDULE	2724+00	2731+00	

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
GENERAL
VOLUME INDEX OF PLAN SHEETS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-001

SHEET 2 OF 464

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME 12 - SYSTEMS (cont'd)			
201	E2-SYS-SWE-PRF-022	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2731+00	2747+00	
202	E2-SYS-SWE-SCH-022	SYSTEMWIDE ELECTRICAL SCHEDULE	2731+00	2747+00	
203	E3-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2747+00	2751+00	
204	E3-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2747+00	2751+00	
205	E3-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2751+00	2758+00	
206	E3-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2751+00	2758+00	
207	E3-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2758+00	2765+00	
208	E3-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2758+00	2765+00	
209	E3-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2765+00	2771+00	
210	E3-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2765+00	2771+00	
211	E3-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2771+00	2778+00	
212	E3-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2771+00	2778+00	
213	E3-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2778+00	2785+00	
214	E3-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2778+00	2785+00	
215	E3-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2785+00	2791+50	
216	E3-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2785+00	2791+50	
217	E3-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2791+50	2798+00	
218	E3-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2791+50	2798+00	
219	E3-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2798+00	2805+00	
220	E3-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2798+00	2805+00	
221	E3-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2805+00	2812+00	
222	E3-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2805+00	2812+00	
223	E3-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2812+00	2819+00	
224	E3-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2812+00	2819+00	
225	E3-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2819+00	2826+00	
226	E3-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2819+00	2826+00	
227	E3-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2826+00	2833+00	
228	E3-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2826+00	2833+00	
229	E3-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2833+00	2842+00	
230	E3-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2833+00	2842+00	
231	E4-SYS-SWE-PRF-001	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2842+00	2848+00	
232	E4-SYS-SWE-SCH-001	SYSTEMWIDE ELECTRICAL SCHEDULE	2842+00	2848+00	
233	E4-SYS-SWE-PRF-002	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2848+00	2854+00	
234	E4-SYS-SWE-SCH-002	SYSTEMWIDE ELECTRICAL SCHEDULE	2848+00	2854+00	
235	E4-SYS-SWE-PRF-003	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2854+00	2860+00	
236	E4-SYS-SWE-SCH-003	SYSTEMWIDE ELECTRICAL SCHEDULE	2854+00	2860+00	
237	E4-SYS-SWE-PRF-004	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2860+00	2865+50	
238	E4-SYS-SWE-SCH-004	SYSTEMWIDE ELECTRICAL SCHEDULE	2860+00	2865+50	
239	E4-SYS-SWE-PRF-005	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2865+50	2871+50	
240	E4-SYS-SWE-SCH-005	SYSTEMWIDE ELECTRICAL SCHEDULE	2865+50	2871+50	
241	E4-SYS-SWE-PRF-006	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2871+50	2879+00	
242	E4-SYS-SWE-SCH-006	SYSTEMWIDE ELECTRICAL SCHEDULE	2871+50	2879+00	
243	E4-SYS-SWE-PRF-007	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2879+00	2886+50	
244	E4-SYS-SWE-SCH-007	SYSTEMWIDE ELECTRICAL SCHEDULE	2879+00	2886+50	
245	E4-SYS-SWE-PRF-008	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2886+50	2891+50	
246	E4-SYS-SWE-SCH-008	SYSTEMWIDE ELECTRICAL SCHEDULE	2886+50	2891+50	
247	E4-SYS-SWE-PRF-009	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2891+50	2897+00	
248	E4-SYS-SWE-SCH-009	SYSTEMWIDE ELECTRICAL SCHEDULE	2891+50	2897+00	
249	E4-SYS-SWE-PRF-010	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2897+00	2904+00	
250	E4-SYS-SWE-SCH-010	SYSTEMWIDE ELECTRICAL SCHEDULE	2897+00	2904+00	
251	E4-SYS-SWE-PRF-011	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2904+00	2911+00	
252	E4-SYS-SWE-SCH-011	SYSTEMWIDE ELECTRICAL SCHEDULE	2904+00	2911+00	
253	E4-SYS-SWE-PRF-012	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2911+00	2918+00	
254	E4-SYS-SWE-SCH-012	SYSTEMWIDE ELECTRICAL SCHEDULE	2911+00	2918+00	
255	E4-SYS-SWE-PRF-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2918+00	2925+00	
256	E4-SYS-SWE-SCH-013	SYSTEMWIDE ELECTRICAL SCHEDULE	2918+00	2925+00	
257	E4-SYS-SWE-PRF-014	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2925+00	2932+00	
258	E4-SYS-SWE-SCH-014	SYSTEMWIDE ELECTRICAL SCHEDULE	2925+00	2932+00	
259	E4-SYS-SWE-PRF-015	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2932+00	2937+00	
260	E4-SYS-SWE-SCH-015	SYSTEMWIDE ELECTRICAL SCHEDULE	2932+00	2937+00	
261	E4-SYS-SWE-PRF-016	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2937+00	2943+50	
262	E4-SYS-SWE-SCH-016	SYSTEMWIDE ELECTRICAL SCHEDULE	2937+00	2943+50	
263	E4-SYS-SWE-PRF-017	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2943+50	2950+00	
264	E4-SYS-SWE-SCH-017	SYSTEMWIDE ELECTRICAL SCHEDULE	2943+50	2950+00	
265	E4-SYS-SWE-PRF-018	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2950+00	2955+50	
266	E4-SYS-SWE-SCH-018	SYSTEMWIDE ELECTRICAL SCHEDULE	2950+00	2955+50	
267	E4-SYS-SWE-PRF-019	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2955+50	2962+34.54	
268	E4-SYS-SWE-SCH-019	SYSTEMWIDE ELECTRICAL SCHEDULE	2955+50	2962+34.54	
269	E4-SYS-SWE-PRF-020	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE - TARGET FIELD STATION			
270	E4-SYS-SWE-SCH-020	SYSTEMWIDE ELECTRICAL SCHEDULE - TARGET FIELD STATION			

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
271	W1-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 1			
272	W1-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 2			
273	W2-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 3			
274	W2-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 4			
275	W3-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 5			
276	W3-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 6			
277	E1-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 7			
278	E1-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 8			
279	E1-SYS-SWE-SEC-003	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 9			
280	E1-SYS-SWE-SEC-004	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 10			
281	E2-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 11			
282	E2-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 12			
283	E2-SYS-SWE-SEC-003	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 13			
284	E2-SYS-SWE-SEC-004	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 14			
285	E3-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 15			
286	E3-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 16			
287	E3-SYS-SWE-SEC-003	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 17			
288	E4-SYS-SWE-SEC-001	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 18			
289	E4-SYS-SWE-SEC-002	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 19			
290	E4-SYS-SWE-SEC-003	SYSTEMWIDE ELECTRICAL CROSS SECTIONS SHEET 20			
		SYSTEMWIDE ELECTRICAL			
291	E0-SYS-SIG-FRT-CLD-001	FREIGHT CONTROL LINE DRAWINGS	33+00	56+00	
292	E0-SYS-SIG-FRT-CLD-002	FREIGHT CONTROL LINE DRAWINGS	56+00	86+00	
293	E0-SYS-SIG-FRT-CLD-003	FREIGHT CONTROL LINE DRAWINGS	86+00	112+50	
294	E0-SYS-SIG-FRT-CLD-004	FREIGHT CONTROL LINE DRAWINGS	112+50	137+50	
295	E0-SYS-SIG-FRT-CLD-005	FREIGHT CONTROL LINE DRAWINGS	137+50	162+50	
296	E0-SYS-SIG-FRT-CLD-006	FREIGHT CONTROL LINE DRAWINGS	162+50	189+50	
297	E0-SYS-SIG-FRT-CLD-007	FREIGHT CONTROL LINE DRAWINGS	189+50	210+50	
298	E0-SYS-SIG-FRT-CLD-008	FREIGHT CONTROL LINE DRAWINGS	210+50	234+00	
299	E0-SYS-SIG-FRT-CLD-009	FREIGHT CONTROL LINE DRAWINGS	300+00	327+50	
300	E0-SYS-SIG-FRT-CLD-010	FREIGHT CONTROL LINE DRAWINGS	327+50	343+42	
301	E0-SYS-SIG-FRT-CLD-011	FREIGHT CONTROL LINE DRAWINGS	344+00	372+00	
302	E1-SYS-SIG-FRT-001	FREIGHT PHASING PLANS - EXCELSIOR BLVD - EXISTING			
303	E1-SYS-SIG-FRT-002	FREIGHT PHASING PLANS - EXCELSIOR BLVD - PROPOSED			
304	E1-SYS-SIG-FRT-003	FREIGHT PHASING PLANS - BLAKE ROAD - EXISTING			
305	E1-SYS-SIG-FRT-004	FREIGHT PHASING PLANS - BLAKE ROAD - NO LRT			
306	E1-SYS-SIG-FRT-005	FREIGHT PHASING PLANS - BLAKE ROAD - PROPOSED			
307	E2-SYS-SIG-FRT-001	FREIGHT PHASING PLANS - WOODDALE AVE - EXISTING			
308	E2-SYS-SIG-FRT-002	FREIGHT PHASING PLANS - WOODDALE AVE - NO LRT			
309	E2-SYS-SIG-FRT-003	FREIGHT PHASING PLANS - WOODDALE AVE - PROPOSED			
310	E2-SYS-SIG-FRT-004	FREIGHT PHASING PLANS - BELTLINE BLVD - EXISTING			
311	E2-SYS-SIG-FRT-005	FREIGHT PHASING PLANS - BELTLINE BLVD - NO LRT			
312	E2-SYS-SIG-FRT-006	FREIGHT PHASING PLANS - BELTLINE BLVD - PROPOSED			
313	E3-SYS-SIG-FRT-001	FREIGHT PHASING PLANS - CEDAR LAKE PKWY - EXISTING			
314	E3-SYS-SIG-FRT-002	FREIGHT PHASING PLANS - CEDAR LAKE PKWY - NO LRT			
315	E3-SYS-SIG-FRT-003	FREIGHT PHASING PLANS - CEDAR LAKE PKWY - PROPOSED			
316	E3-SYS-SIG-FRT-004	FREIGHT PHASING PLANS - W 21ST ST - EXISTING			
317	E3-SYS-SIG-FRT-005	FREIGHT PHASING PLANS - W 21ST ST - NO LRT			
318	E3-SYS-SIG-FRT-006	FREIGHT PHASING PLANS - W 21ST ST - PROPOSED			
319	E1-SYS-SIG-FRT-XING-001	FREIGHT CROSSING PLANS - EXCELSIOR BLVD			
320	E1-SYS-SIG-FRT-XING-002	FREIGHT CROSSING PLANS - BLAKE ROAD			
321	E2-SYS-SIG-FRT-XING-001	FREIGHT CROSSING PLANS - WOODDALE AVE			
322	E2-SYS-SIG-FRT-XING-002	FREIGHT CROSSING PLANS - BELTLINE BLVD			
323	E3-SYS-SIG-FRT-XING-001	FREIGHT CROSSING PLANS - CEDAR LAKE PKWY			
324	E3-SYS-SIG-FRT-XING-002	FREIGHT CROSSING PLANS - W 21ST ST			
325	E0-SYS-SIG-FRT-DTL-001	FREIGHT CROSSING CABLE PLANS - EXCELSIOR BLVD			
326	E0-SYS-SIG-FRT-DTL-002	FREIGHT CROSSING CABLE PLANS - BLAKE ROAD			
327	E0-SYS-SIG-FRT-DTL-003	FREIGHT CROSSING CABLE PLANS - WOODDALE AVE			
328	E0-SYS-SIG-FRT-DTL-004	FREIGHT CROSSING CABLE PLANS - BELTLINE BLVD			
329	E0-SYS-SIG-FRT-DTL-005	FREIGHT CROSSING CABLE PLANS - CEDAR LAKE PKWY			
330	E0-SYS-SIG-FRT-DTL-006	FREIGHT CROSSING CABLE PLANS - W 21ST STREET			
		SYSTEMWIDE ELECTRICAL DETAILS			
331	W0-SYS-STU-DTL-001	SC DUCTBANK SECTIONS			
332	W0-SYS-STU-DTL-002	TE DUCTBANK SECTIONS			
333	W0-SYS-STU-DTL-003	TH 62 CONCRETE WALKWAY			

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
334	W0-SYS-STU-DTL-004	GOLDEN TRIANGLE STATION MANHOLE PILE FOUNDATION DETAIL			
335	W0-SYS-SWE-DTL-001	DUCTBANK INSTALLATION EMBEDDED TRACK			
336	W0-SYS-SWE-DTL-002	TE MANHOLE			
337	W0-SYS-SWE-DTL-003	SC MANHOLE			
338	W0-SYS-SWE-DTL-004	TE HANDHOLE			
339	W0-SYS-SWE-DTL-005	SC HANDHOLE			
340	W0-SYS-SWE-DTL-006	TYPICAL MANHOLE INSTALLATION			
341	W0-SYS-SWE-DTL-007	TYPICAL HANDHOLE, MANHOLE AND CONDUIT LABELING			
342	W0-SYS-SWE-DTL-008	EXPRESS TROUGH INSTALLATION SHEET 1			
343	W0-SYS-SWE-DTL-009	EXPRESS TROUGH INSTALLATION SHEET 2			
344	W0-SYS-SWE-DTL-010	EXPRESS TROUGH SECTIONS			
345	W0-SYS-SWE-DTL-011	EXPRESS TROUGH TRANSITION BOX			
346	W0-SYS-SWE-DTL-012	CONDUIT STUB-OUT AND STUB-UP			
347	W0-SYS-SWE-DTL-013	CONDUIT PENETRATION			
		SYSTEMWIDE ELECTRICAL			
348	W0-SYS-SWE-DTL-014	TYPICAL CONDUIT INSTALLATION OCS POLE FOUNDATIONS			
349	E0-SYS-SWE-DTL-SIG-001	LRV TRAFFIC DETECTION LOOP - EMBEDDED TRACK INSTALLATION			
350	E0-SYS-SWE-DTL-SIG-002	TWC ANTENNA - EMEBDDED TRACK INSTALLATION			
351	E0-SYS-SWE-DTL-SIG-003	TWC ANTENNA - DIRECT FIXATION TRACK INSTALLATION			
352	E0-SYS-SWE-DTL-SIG-004	TWC ANTENNA - BALLASTED TRACK INSTALLATION			
353	E0-SYS-SWE-DTL-SIG-005	WAYSIDE SIGNAL MAST - TYPICAL FOUNDATIONS INSTALLATION			
354	E0-SYS-SWE-DTL-SIG-006	GRADE CROSSING MAST - TYPICAL FOUNDATION INSTALLATION			
355	E0-SYS-SWE-DTL-SIG-007	WHEEL SENSOR - DF & BALLASTED TRACK INSTALLATION			
356	E0-SYS-SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE - TYPICAL FOUNDATION INSTALLATION			
357	E0-SYS-SWE-DTL-SIG-009	CUT SECTION CASE - TYPICAL FOUNDATION INSTALLATION			
358	E0-SYS-SWE-DTL-SIG-010	FREIGHT GRADE CROSSING EQUIPMENT - ARRANGEMENT AND INSTALLATION DETAILS			
359	E0-SYS-SWE-DTL-SIG-011	FREIGHT CROSSING EQUIPMENT - CROSSING BELL & FLASHER			
		SYSTEMWIDE ELECTRICAL SIGNAL HOUSE TYPICAL FOUNDATION			
360	E0-SYS-SWE-DTL-SIG-012	10'X16' SIGNAL ENCLOSURE FOUNDATION			
361	E0-SYS-SWE-DTL-SIG-013	10'X30' SIGNAL ENCLOSURE FOUNDATION			
362	E0-SYS-SWE-DTL-SIG-014	10'X35' SIGNAL ENCLOSURE FOUNDATION			
363	E0-SYS-SWE-DTL-SIG-015	6'X8' GRADE CROSSING FOUNDATION			
		SYSTEMWIDE ELECTRICAL			
364	E0-SYS-SWE-DTL-SIG-016	SWITCH HEATER CASE - TYPICAL FOUNDATION INSTALLATION			
365	E0-SYS-SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND - BALLASTED TRACK INSTALLATION			
366	E0-SYS-SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND - BALLASTED TRACK INSTALLATION			
367	E0-SYS-SWE-DTL-SIG-019	MAINLINE SWITCH MACHINE - DIRECT FIXATION & BALLASTED TRACK INSTALLATION			
368	E0-SYS-SWE-DTL-SIG-020	WHEEL SENSOR ISOLATION - EMBEDDED TRACK INSTALLATION			
369	E0-SYS-SWE-DTL-SIG-021	IMPEDANCE BOND ISOLATION - EMBEDDED TRACK INSTALLATION			
370	E0-SYS-SWE-DTL-SIG-022	IMPEDANCE BOND - EMBEDDED TRACK PLINTH AND CONDUIT INSTALLATION			
371	E0-SYS-SWE-DTL-SIG-023	TYPICAL WAYSIDE SIGNAL DETAILS - RAIL ACCESS BOX			
372	E0-SYS-SWE-DTL-SIG-024	BOOTLEG JUNCTION BOX INSTALLATION			
373	E0-SYS-SWE-DTL-SIG-025	FREIGHT INTRUSION DETECTION SYSTEM DETAIL SHEET 1			
374	E0-SYS-SWE-DTL-SIG-026	FREIGHT INTRUSION DETECTION SYSTEM DETAIL SHEET 2			
375	E0-SYS-SWE-DTL-SIG-027	FREIGHT SIGNAL HOUSE DETAILS-TYPICAL 6'X8' GRADE CROSSING HOUSE			
376	E0-SYS-SWE-DTL-SIG-028	FREIGHT WALKOUT CANTILEVER SIGNAL INSTALLATION DETAIL			
377	E0-SYS-SWE-DTL-SIG-029	WALKOUT CANTILEVER SIGNAL FOUNDATION DETAIL			
378	E0-SYS-SWE-DTL-COM-001	INTRUSION DETECTION CABINET - TYPICAL FOUNDATION INSTALLATION			

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
GENERAL
VOLUME INDEX OF PLAN SHEETS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-002

SHEET 3 OF 464

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME 12 - SYSTEMS (cont'd)			
379	W0-SYS-SWE-DTL-COM-002	INTRUSION DETECTION - TYPICAL POLE MOUNT FOUNDATION INSTALLATION			
380	W0-SYS-STU-DTL-005	INTRUSION DETECTION DEVICE FOUNDATION DETAILS			
381	0-SYS-SWE-DTL-TES-001	SUBSTATION SITE DETAIL 1 SUBSTATION SW304			
382	0-SYS-SWE-DTL-TES-002	SUBSTATION SITE DETAIL 2 SUBSTATION SW304			
383	0-SYS-SWE-DTL-TES-003	NINE MILE CREEK BRIDGE 27C07 TRANSVERSE SECTION DETAIL 1			
384	0-SYS-SWE-DTL-TES-004	NINE MILE CREEK BRIDGE 27C07 TRANSVERSE SECTION DETAIL 2			
385	0-SYS-SWE-DTL-TES-005	SUBSTATION SITE DETAILS SUBSTATION SW305			
386	0-SYS-SWE-DTL-TES-006	SHADY OAK BRIDGE 27R34 TRANSVERSE SECTION DETAIL			
387	0-SYS-SWE-DTL-TES-007	SUBSTATION SITE DETAIL EXISTING SUBSTATION S17			
388	0-SYS-SWE-DTL-TES-008	5TH AVE/ 7TH ST BRIDGE 27C18 TRANSVERSE SECTION DETAIL			
389	0-SYS-SWE-DTL-TES-009	TYPICAL RACEWAY MOUNTING DETAIL UNDER BRIDGE STRUCTURE			
		OVERHEAD CONTACT SYSTEM			
390	00-SYS-OCS-PFS-001	POLE FOUNDATION SCHEDULE SHEET 1			
391	00-SYS-OCS-PFS-002	POLE FOUNDATION SCHEDULE SHEET 2			
392	00-SYS-OCS-PFS-003	POLE FOUNDATION SCHEDULE SHEET 3			
393	00-SYS-OCS-PFS-004	POLE FOUNDATION SCHEDULE SHEET 4			
394	00-SYS-OCS-PFS-005	POLE FOUNDATION SCHEDULE SHEET 5			
395	00-SYS-OCS-PFS-006	POLE FOUNDATION SCHEDULE SHEET 6			
396	00-SYS-OCS-PFS-007	POLE FOUNDATION SCHEDULE SHEET 7			
397	00-SYS-OCS-PFS-008	POLE FOUNDATION SCHEDULE SHEET 8			
398	00-SYS-OCS-PFS-009	POLE FOUNDATION SCHEDULE SHEET 9			
399	00-SYS-OCS-PFS-010	POLE FOUNDATION SCHEDULE SHEET 10			
400	00-SYS-OCS-PFS-011	POLE FOUNDATION SCHEDULE SHEET 11			
401	00-SYS-OCS-PFS-012	POLE FOUNDATION SCHEDULE SHEET 12			
402	00-SYS-OCS-PFS-013	POLE FOUNDATION SCHEDULE SHEET 13			
403	00-SYS-OCS-PFS-014	POLE FOUNDATION SCHEDULE SHEET 14			
404	00-SYS-OCS-PFS-015	POLE FOUNDATION SCHEDULE SHEET 15			
405	00-SYS-OCS-PFS-016	POLE FOUNDATION SCHEDULE SHEET 16			
406	00-SYS-OCS-PFS-017	POLE FOUNDATION SCHEDULE SHEET 17			
407	00-SYS-OCS-PFS-018	POLE FOUNDATION SCHEDULE SHEET 18			
408	00-SYS-OCS-PFS-019	POLE FOUNDATION SCHEDULE SHEET 19			
409	00-SYS-OCS-PFS-020	POLE FOUNDATION SCHEDULE SHEET 20			
410	00-SYS-OCS-FND-001	POLE FOUNDATION ASSEMBLY BALLASTED TRACK			
411	00-SYS-OCS-FND-002	POLE FOUNDATION ASSEMBLY MEDIAN OR NEUTRAL AREA			
412	00-SYS-OCS-FND-003	GUY FOUNDATION ASSEMBLY			
413	00-SYS-OCS-FND-004	POLE FOUNDATION ASSEMBLY MSE RETAINED FILL AT BRIDGE APPROACH			
414	00-SYS-OCS-FND-005	GUY FOUNDATION ASSEMBLY MSE RETAINED FILL AT BRIDGE APPROACH			
415	00-SYS-OCS-FND-006	POLE BRIDGE ANCHORAGE ASSEMBLY			
416	00-SYS-OCS-FND-007	GUY BRIDGE ANCHORAGE ASSEMBLY			
		SYSTEMWIDE ELECTRICAL			
417	W2-SYS-STU-PLN-001	LIGHTING PLAN AND SCHEDULE TH62 SHEET 1			
418	W2-SYS-STU-PLN-002	LIGHTING PLAN AND SCHEDULE TH62 SHEET 2			
419	W2-SYS-STU-PLN-003	LIGHTING PLAN AND SCHEDULE TH62 SHEET 3			
420	W2-SYS-STU-DTL-001	LIGHTING POLE FOUNDATION DETAILS			
421	E3-SYS-STU-PLN-001	LIGHTING PLAN KENILWORTH TUNNEL SHEET 1			
422	E3-SYS-STU-PLN-002	LIGHTING PLAN KENILWORTH TUNNEL SHEET 2			
423	E3-SYS-STU-SCH-001	KENILWORTH LIGHTING SCHEDULE			
424	E3-SYS-STU-DTL-001	BOLLARD AND MOUNT DETAIL			
		CORROSION CONTROL - STRUCTURES			
425	E0-SYS-CORR-DTL-001	STRAY CURRENT CONTROL DETAILS 1			
426	E0-SYS-CORR-DTL-002	STRAY CURRENT CONTROL DETAILS 2			
427	E0-SYS-CORR-DTL-003	STRAY CURRENT CONTROL DETAILS 3			
428	E0-SYS-CORR-DTL-004	STRAY CURRENT CONTROL DETAILS 4			
429	E0-SYS-CORR-DTL-005	STRAY CURRENT CONTROL DETAILS 5			
430	E0-SYS-CORR-DTL-006	STRAY CURRENT CONTROL DETAILS 6			
431	E0-SYS-CORR-DTL-007	STRAY CURRENT CONTROL DETAILS 7			
432	E0-SYS-CORR-DTL-008	STRAY CURRENT CONTROL DETAILS 8			
433	E0-SYS-CORR-DTL-009	STRAY CURRENT CONTROL DETAILS 9			
434	E0-SYS-CORR-DTL-010	STRAY CURRENT CONTROL DETAILS 10			
435	E0-SYS-CORR-DTL-011	STRAY CURRENT CONTROL DETAILS 11			

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
436	E0-SYS-CORR-DTL-012	STRAY CURRENT CONTROL DETAILS 12			
437	E0-SYS-CORR-DTL-013	STRAY CURRENT CONTROL DETAILS 13			
438	E0-SYS-CORR-DTL-014	STRAY CURRENT CONTROL DETAILS 14			
439	E0-SYS-CORR-DTL-015	STRAY CURRENT CONTROL DETAILS 15			
440	E0-SYS-CORR-DTL-016	STRAY CURRENT CONTROL DETAILS 16			
441	E0-SYS-CORR-DTL-017	STRAY CURRENT CONTROL DETAILS 17			
442	E0-SYS-CORR-DTL-018	STRAY CURRENT CONTROL DETAILS 18			
443	E0-SYS-CORR-DTL-019	STRAY CURRENT CONTROL DETAILS 19			
444	E0-SYS-CORR-DTL-020	STRAY CURRENT CONTROL DETAILS 20			
445	E0-SYS-CORR-DTL-021	STRAY CURRENT CONTROL DETAILS 21			
446	E0-SYS-CORR-DTL-022	STRAY CURRENT CONTROL DETAILS 22			
447	E0-SYS-CORR-DTL-023	STRAY CURRENT CONTROL DETAILS 23			
448	E0-SYS-CORR-DTL-024	STRAY CURRENT CONTROL DETAILS 24			
449	E0-SYS-CORR-DTL-025	STRAY CURRENT CONTROL DETAILS 25			
450	E0-SYS-CORR-DTL-026	STRAY CURRENT CONTROL DETAILS 26			
451	E0-SYS-CORR-DTL-027	STRAY CURRENT CONTROL DETAILS 27			
		CORROSION CONTROL - UTILITIES			
452	E0-SYS-CORR-DTL-028	STRAY CURRENT CONTROL DETAILS 28			
453	E0-SYS-CORR-DTL-029	STRAY CURRENT CONTROL DETAILS 29			
454	E0-SYS-CORR-DTL-030	STRAY CURRENT CONTROL DETAILS 30			
455	E0-SYS-CORR-DTL-031	STRAY CURRENT CONTROL DETAILS 31			
456	E0-SYS-CORR-DTL-032	STRAY CURRENT CONTROL DETAILS 32			
457	E0-SYS-CORR-DTL-033	STRAY CURRENT CONTROL DETAILS 33			
458	E0-SYS-CORR-DTL-034	STRAY CURRENT CONTROL DETAILS 34			
459	ELE-SITE-SCH-504	ELECTRICAL FENCE GROUNDING SCHEDULE SHEET 1			
460	-	NOT USED			
461	-	NOT USED			
462	ELE-SITE-DTL-600	ELECTRICAL FENCE GROUNDING DETAILS (1 OF 3)			
463	ELE-SITE-DTL-601	ELECTRICAL FENCE GROUNDING DETAILS (2 OF 3)			
464	ELE-SITE-DTL-602	ELECTRICAL FENCE GROUNDING DETAILS (3 OF 3)			

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
GENERAL
VOLUME INDEX OF PLAN SHEETS
SHEET 3

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-003

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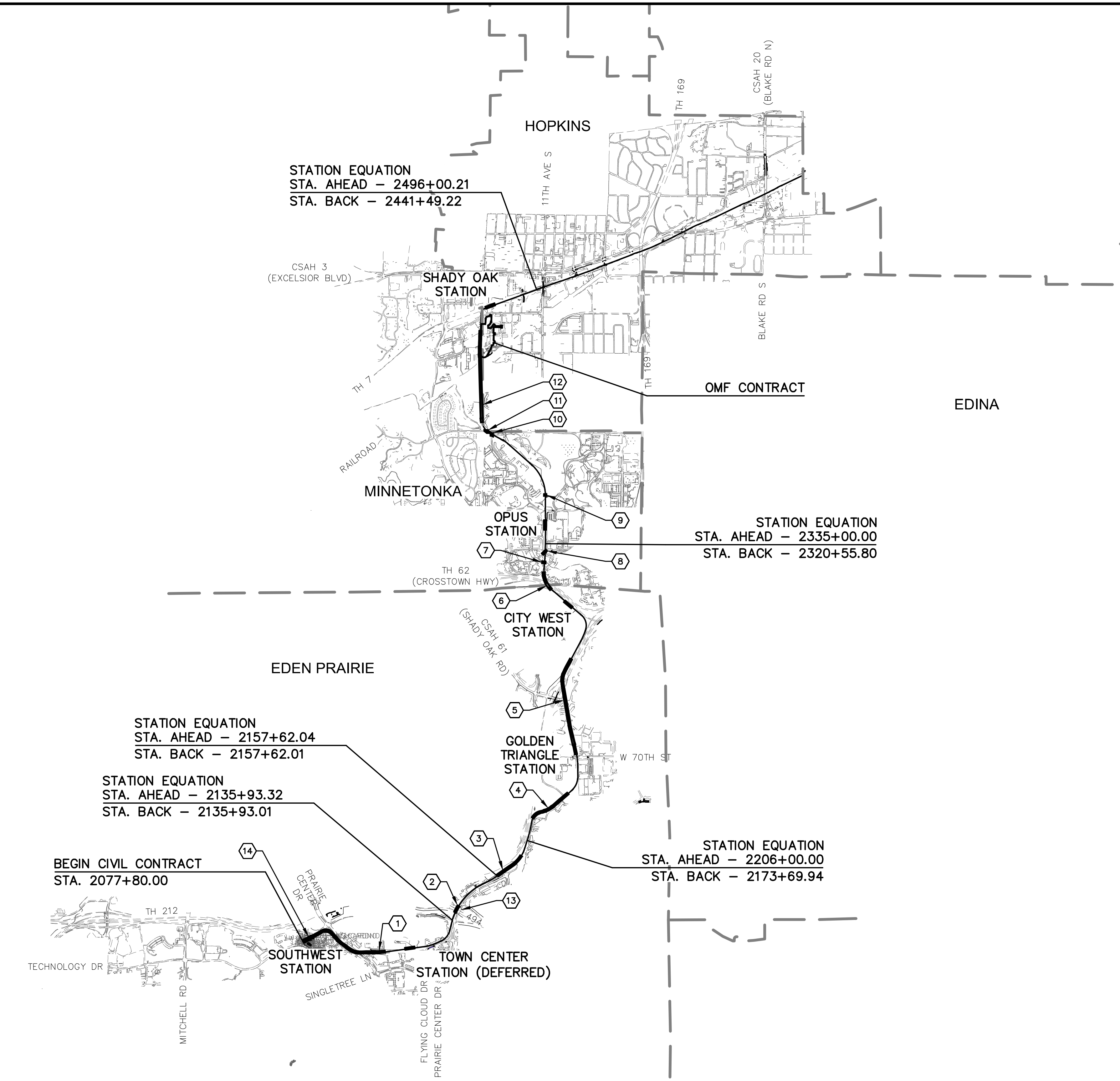

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SCALE IN FEET

REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	PRAIRIE CENTER DRIVE BRIDGE	27C06
2	BRIDGE OVER I–494	27W32
3	VALLEY VIEW RD BRIDGE	27R33
4	NINE MILE CREEK BRIDGE	27C07
5	TH 212 / SHADY OAK ROAD BRIDGE	27R34
6	TH 62 TUNNEL	27W33
7	PEDESTRIAN UNDERPASS #2	27J63
8	PEDESTRIAN UNDERPASS #1	27J62
9	PEDESTRIAN UNDERPASS #5	R0715
10	FELTL ROAD BRIDGE	27C08
11	SMETANA ROAD BRIDGE	27C09
12	MINNETONKA / HOPKINS LRT BRIDGE	R0686
13	FLYING CLOUD DRIVE BRIDGE MODIFICATIONS	27762 BA
14	SOUTHWEST STATION BUS LOOP BRIDGE	XXXXX

BA – BID ALTERNATE

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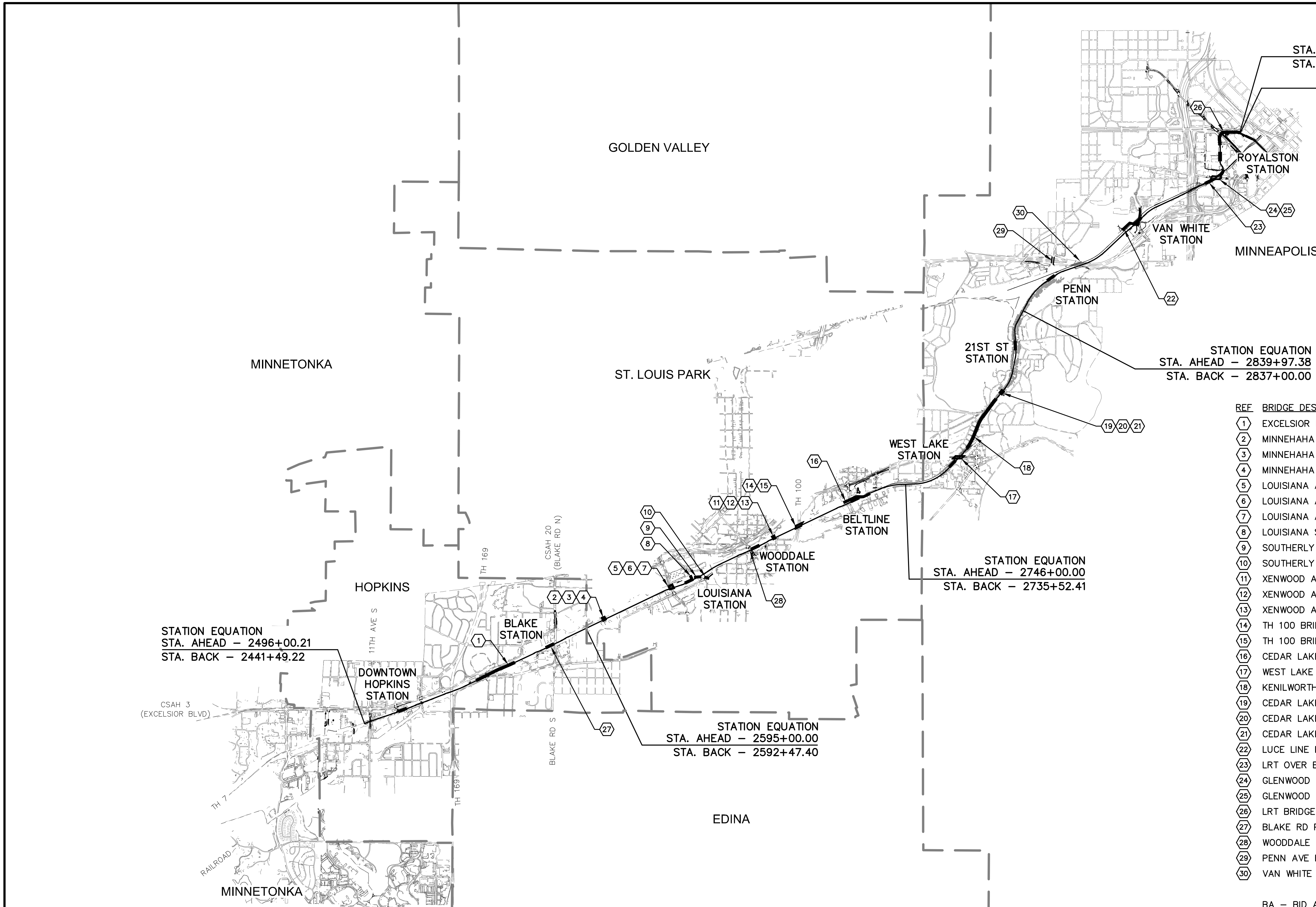
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
GENERAL
KEY MAP
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-KEY-001



REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	EXCELSIOR BLVD BRIDGE	27C10
2	MINNEHAHA CREEK BRIDGE – FREIGHT	R0688
3	MINNEHAHA CREEK BRIDGE – TRAIL	R0687
4	MINNEHAHA CREEK BRIDGE – LRT	R0689
5	LOUISIANA AVE BRIDGE – FREIGHT	27C12
6	LOUISIANA AVE BRIDGE – TRAIL	27C11
7	LOUISIANA AVE BRIDGE – LRT	27C13
8	LOUISIANA STATION UNDERPASS	R0690
9	SOUTHERLY CONNECTOR BRIDGE OVER LRT	R0691
10	SOUTHERLY CONNECTOR BRIDGE OVER OXFORD ST	27C14
11	XENWOOD AVE – FREIGHT	XXXXX BA
12	XENWOOD AVE – TRAIL	XXXXX BA
13	XENWOOD AVE – LRT	XXXXX BA
14	TH 100 BRIDGE RELOCATION – FREIGHT	27W34
15	TH 100 BRIDGE – LRT	27303
16	CEDAR LAKE BRIDGE – TRAIL	R0692
17	WEST LAKE ST BRIDGE MODIFICATIONS	27037
18	KENILWORTH TUNNEL	27C15
19	CEDAR LAKE CHANNEL BRIDGE – FREIGHT	R0694
20	CEDAR LAKE CHANNEL BRIDGE – LRT	R0693
21	CEDAR LAKE CHANNEL BRIDGE – TRAIL	R06xx
22	LUCE LINE BRIDGE – TRAIL	R0696
23	LRT OVER BNSF BRIDGE	R0697
24	GLENWOOD AVE BRIDGE – WEST	27C16
25	GLENWOOD AVE BRIDGE – EAST	27C17
26	LRT BRIDGE OVER 5TH AVE & 7TH ST	27C18
27	BLAKE RD PEDESTRIAN UNDERPASS	27J60
28	WOODDALE AVE PEDESTRIAN UNDERPASS	27J61
29	PENN AVE BRIDGE MODIFICATIONS	27758
30	VAN WHITE BLVD BRIDGE MODIFICATIONS	27B01

BA – BID ALTERNATE

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
GENERAL
KEY MAP
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: E0-GEN-KEY-002

SHEET 6 OF 464

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SYMBOLS

PROPOSED DIRECTIONAL LANE USE
EXISTING DIRECTIONAL LANE USE
FLASHER (FREIGHT & PEDESTRIAN)
CROSSING GATE (FREIGHT & LRT)
CANTILEVER SIGNAL
RAIL TURNOUT
RAIL CROSSOVER (DOUBLE)
RAIL CROSSOVER (SINGLE)
POINT OF SWITCH (PS)
OCS POLE FOUNDATION
RAIL LUBRICATOR
POINT OF INTERSECTION (PI)
W2-200 RAILROAD CURVE NUMBER
ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
HANDICAP PARKING STALL
TACTILE WARNING STRIP
TPSS BUILDING (TPSS-SW###) - NIC
TUNNEL SYSTEMS HOUSE (TSY-SW###) - NIC
SIGNAL / COMMUNICATION HOUSE - NIC
STORM SEWER MANHOLE
STORM SEWER CATCH BASIN
STORM SEWER FLARED END SECTION
STORM SEWER CLEAN-OUT
STORM SEWER PUMP STATION
DTXX INV XXX.XX DRAINTILE ID
XXXX - ST STORM SEWER STRUCTURE ID
C E BUS SHELTER
ROADWAY / PEDESTRIAN LIGHT

LINETYPES

ROADWAY ℄
TRACK ℄ (LRT)
TRACK ℄ (FRT)
RETAINING WALL
BALLAST CURB
TUNNEL WALL
FENCE
EX ROW
PROP ROW
PROP TCE
PROP PE
FENCE / RAILING
ID ID FREIGHT INTRUSION DETECTION
CONCRETE CURB AND GUTTER
TRAIL (WIDTH VARIES)
SIDEWALK
DRIVEWAY
BRIDGE
SAWCUT
DELINEATED WETLAND
BMP (NWL) WATER EDGE
PROPOSED FLOODPLAIN MITIGATION AREA
SILT FENCE
BALE BARRIER
STORM SEWER
CASING PIPE
PIPE REMOVAL
STRUCTURE REMOVAL
FLOATING SILT FENCE
SUPER DUTY SILT FENCE
CONSTRUCTION LIMITS
ROCK WEEPER
DIVERSION DITCH
OVERLAND FLOW
CROSSWALK
STOP BAR
MEDIAN NOSE
EP-EP-18 WETLAND ID

CONSTRUCTION PACKAGE NOTE

NOTE: THE SWLRT CONSTRUCTION IS BEING IMPLEMENTED THROUGH THREE MAIN CONSTRUCTION PACKAGES; CIVIL, SYSTEMS & TUNNEL FACILITIES (SYS), AND OPERATIONS & MAINTENANCE FACILITY (OMF). CERTAIN SYS AND OMF SYMBOLS ARE SHOWN ON THE CIVIL CONTRACT PLANS FOR INFORMATION ONLY AND CERTAIN FACILITIES ARE NOT PART OF THE CIVIL CONTRACT.

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
GENERAL
NOTES, ABBREVIATIONS, AND SYMBOLS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-NTS-001

ABBREVIATIONS

3-2 (EG)	SIGNAL HEAD NUMBER (PHASE 3, NO. 2)
AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
AWF	ADVANCE WARNING FLASHER
BA	BID ALTERNATE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BMP	BEST MANAGEMENT PRACTICE
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
℄	CENTERLINE
CB	CATCH BASIN
CE	CLEARANCE ENVELOPE
CIR	CIRCLE
CO	DRAINTILE CLEANOUT STRUCTURE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CS	CURVE TO SPIRAL
CSAH	COUNTY STATE AID HIGHWAY
D&U	DRAINAGE AND UTILITY
DF	DIRECT FIXATION
DR	DRIVE
DT	DRAINTILE
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	ENDING POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EVP	EMERGENCY VEHICLE PRE-EMPTION
EX	EXISTING
FES	FLARED END SECTION
FYA	FLASHING YELLOW ARROW
GR RD	GROUND ROD
GRN	GREEN INDICATION
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
INL	BRIDGE DRAIN INLET
INS GR	INSULATED GROUND
IP	INPLACE
LED	LIGHT EMITTING DIODE
LH	LEFT HAND
LN	LANE
LRCI	LOCALLY REQUESTED CAPITAL INVESTMENT
LRT	LIGHT RAIL TRANSIT
LRV	LIGHT RAIL VEHICLE
LT	LEFT
LUM	LUMINAIRE
L_c	CURVE LENGTH (FEET)
L_s	SPIRAL LENGTH (FEET)
MIN	MINIMUM
MPH	MILES PER HOUR
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
NIC	NOT IN CONTRACT
NO	NUMBER
NWL	NORMAL WATER LINE
OCS	OUTLET CONTROL SYSTEM
OCS	OVERHEAD CONTACT SYSTEM
OMF	OPERATIONS AND MAINTENANCE FACILITY
OH	OVERHEAD
P1-1 (EG)	PEDESTRIAN HEAD (PHASE 1, NO. 1)
PB2-1 (EG)	PUSHBUTTON (PHASE 2, NO. 1)
PC	POINT OF CURVE
PE	PERMANENT EASEMENT
PED	PEDESTRIAN
PITO	POINT OF INTERSECTION OF TURNOUT
PKWY	PARKWAY
POB	POINT OF BEGINNING
POE	POINT OF ENDING
POT	POINT ON TANGENT
PROP	PROPOSED
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS (FEET)
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RL	RAIL LUBRICATOR
r	RATE OF CHANGE VERTICAL CURVE
RH	RIGHT HAND
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SIG-COMM	SIGNAL COMMUNICATION
SOP	SOURCE OF POWER
ST	STREET
ST	SPIRAL TO TANGENT
ST	STORM MANHOLE STRUCTURE
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TH	TRUNK HIGHWAY
THRU	THROUGH
TOR	TOP OF RAIL
TPSS	TRACTION POWER SUBSTATION
TRK	TRACK
TS	TANGENT TO SPIRAL
TYP	TYPICAL
UG	UNDERGROUND
V	DESIGN VELOCITY (MPH)
VC	VERTICAL CURVE
VDE	VEHICLE DYNAMIC ENVELOPE
W	WEST
WB	WEST BOUND
WLK	WALK INDICATION

TRAIL INDEX

ABBREVIATED NAME	FULL NAME / LOCATION
TRAIL 1	UNDER RED CIRCLE DR, LRT, AND YELLOW CIRCLE DR
TRAIL 2	FROM TRAIL 1 TO GREEN CIRCLE DR
TRAIL 3	OPUS STATION ACCESS FROM BREN RD E
TRAIL 4	FROM BREN RD W TO TRAIL 5
TRAIL 5	FROM OPUS STATION TO GREEN CIRCLE DR
TRAIL 6	FROM TRAIL 5 TO SMETANA RD
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/FROM SHADY OAK STATION TO 11TH AVE
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL LRT TRAIL/BETWEEN EXCELSIOR AND KENILWORTH TRAIL CONNECTION
MIDTOWN GREENWAY	MIDTOWN GREENWAY/EAST OF KENILWORTH TRAIL CONNECTION
TRAIL A	KENILWORTH TRAIL (SECONDARY)/BETWEEN CEDAR-ISLES CHANNEL AND 21ST STREET STATION
TRAIL B	KENILWORTH TRAIL (SECONDARY)/BETWEEN 21ST STREET STATION AND PENN STATION
TRAIL B	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE LRT REGIONAL TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION TO CEDAR LAKE LRT REGIONAL TRAIL
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/PENN STATION TO TH 394
TRAIL E	KENILWORTH TRAIL (SECONDARY)/EAST OF W LAKE ST
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF CEDAR LAKE PKWY
TRAIL G	NOT USED
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO CSAH 20 (BLAKE RD)
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/AT-GRADE CROSSING AT PENN STATION
TRAIL J	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL M	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO CSAH 20 (BLAKE RD)
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TH 7 SERVICE ROAD
TRAIL R	20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL
TRAIL S	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO BELTLINE BLVD
TRAIL T	8' CONNECTOR TRAIL FROM VAN WHITE STATION TO VAN WHITE MEMORIAL BLVD
TRAIL U	10' TRAIL PARALLEL TO CEDAR LAKE PKWY
LUCE LINE TRAIL	LUCE LINE REGIONAL TRAIL/ON BRIDGE OVER LIGHT RAIL
TRAIL V	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL W	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL X	NOT USED
TRAIL Y	12' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO WOODDALE AVE S
TRAIL Z	12' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO WOODDALE AVE S
TRAIL AA	8' PEDESTRIAN CONNECTOR TRAIL FROM TRAIL B TO PENN STATION
TRAIL BB	8' PEDESTRIAN CONNECTOR TRAIL FROM TRAIL B TO PENN STATION
TRAIL CC	10' CONNECTOR TRAIL FROM KENILWORTH TRAIL (MAIN) TO PENN STATION

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
GENERAL
NOTES, ABBREVIATIONS, AND SYMBOLS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-NTS-002

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 1

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-LAY-001

SHEET 9 OF 464

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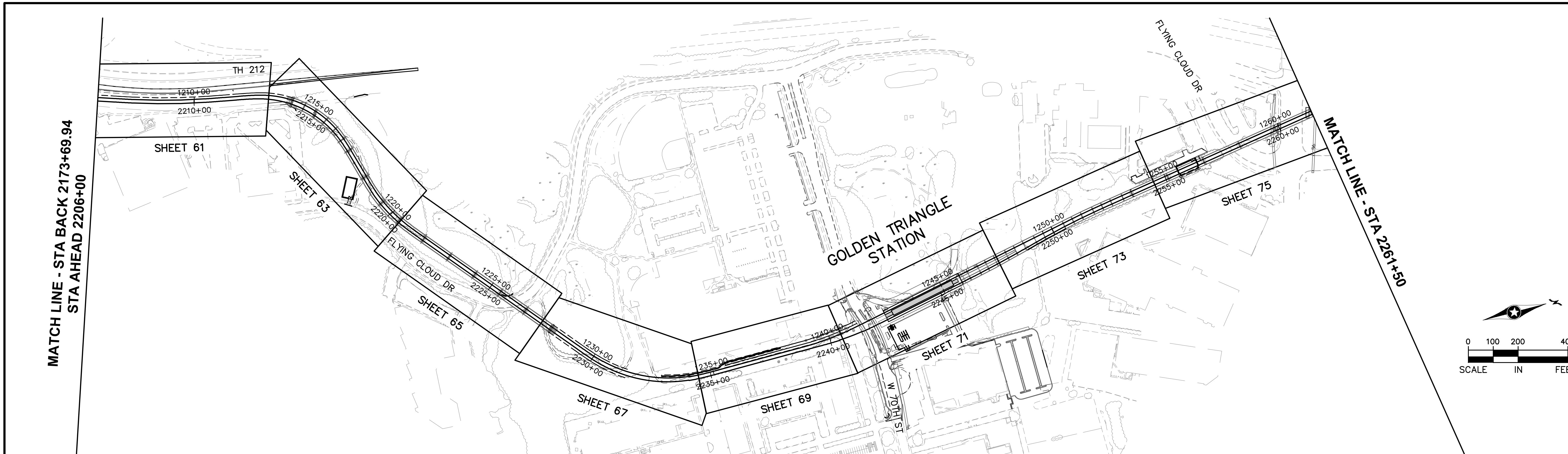

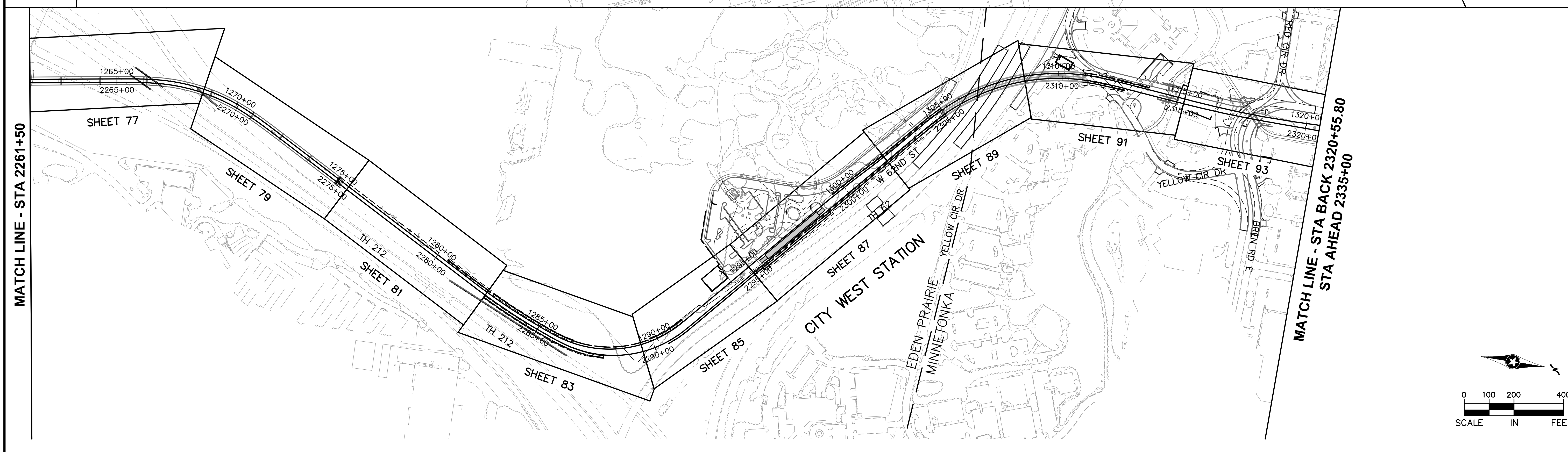

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METROPOLITAN COUNCIL

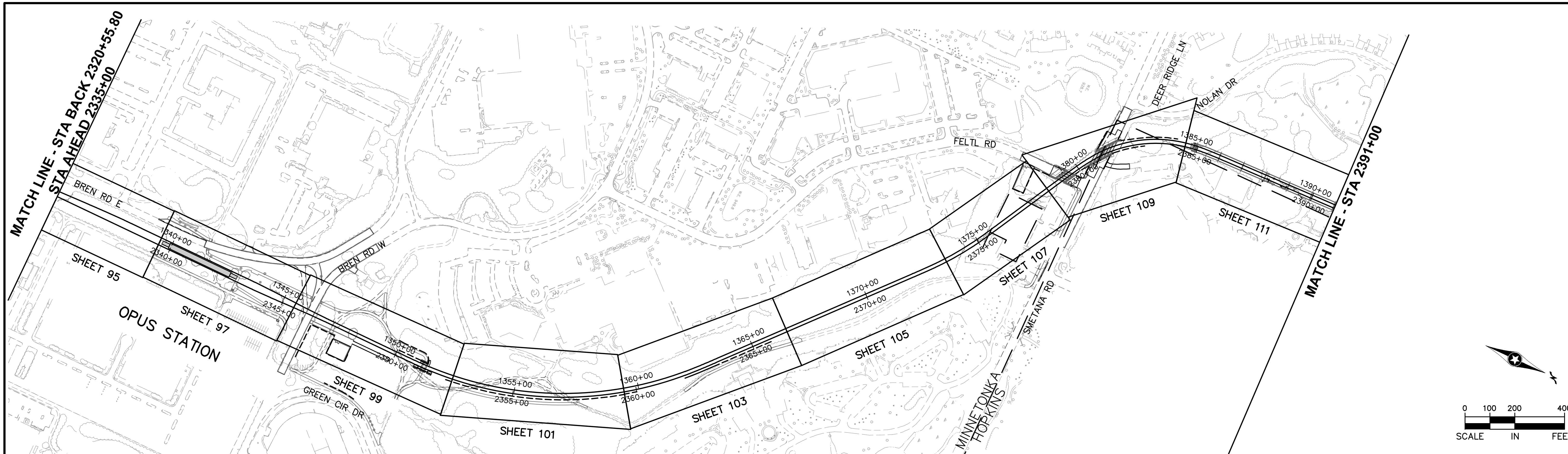
SOUTHWEST Green Line LRT Extension

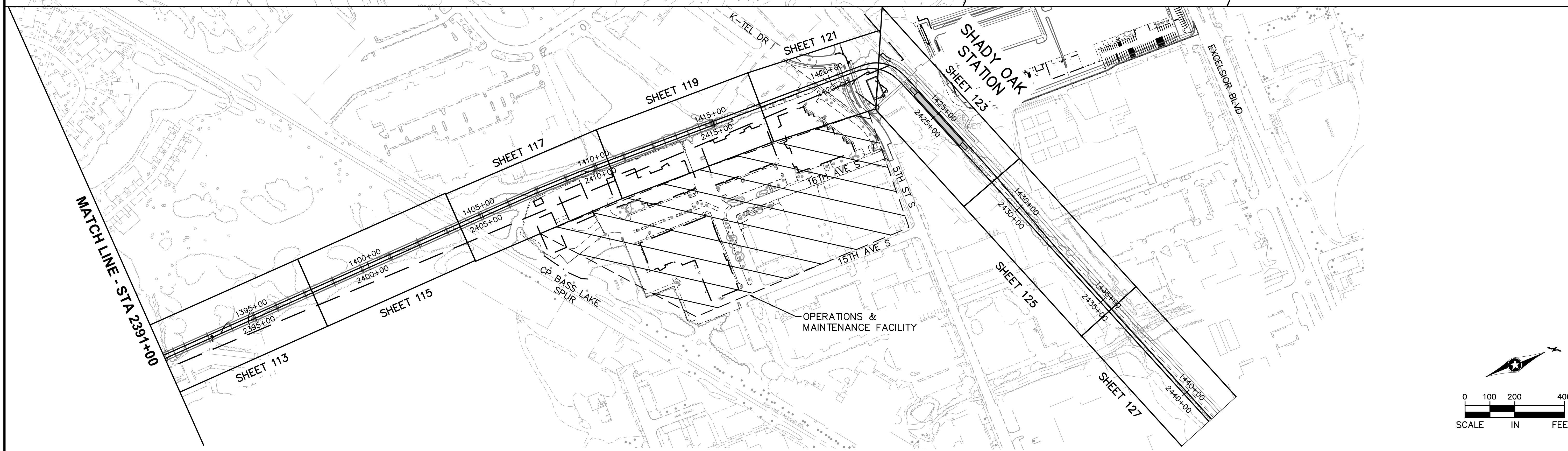
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 2

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-LAY-002

SHEET 10 OF 464





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 3

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-LAY-003

SHEET 11 OF 464

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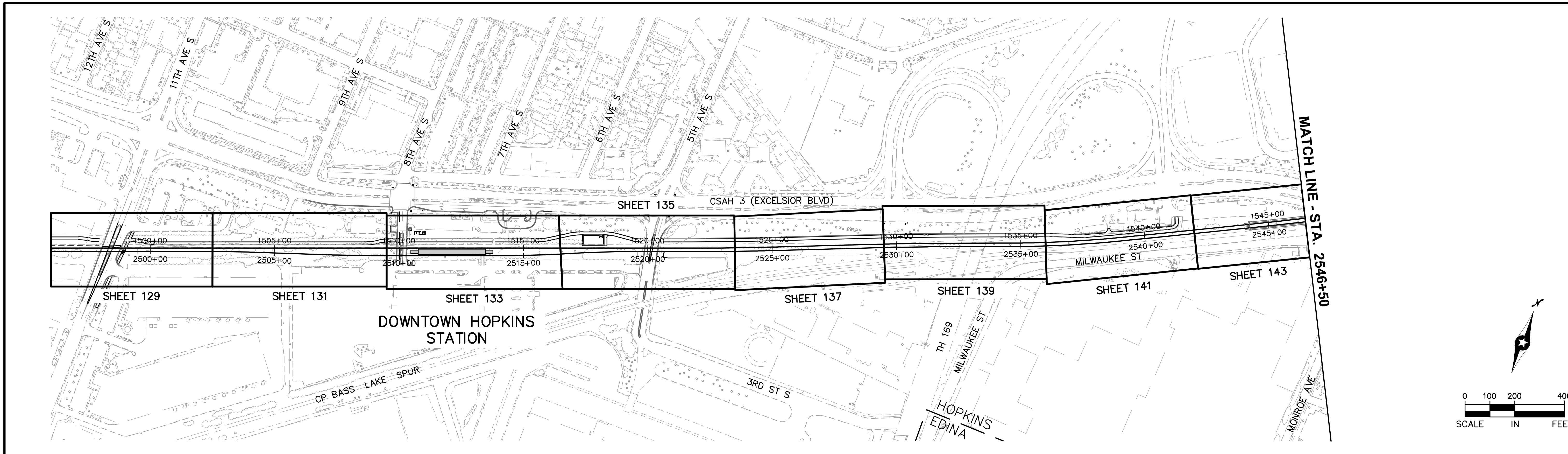

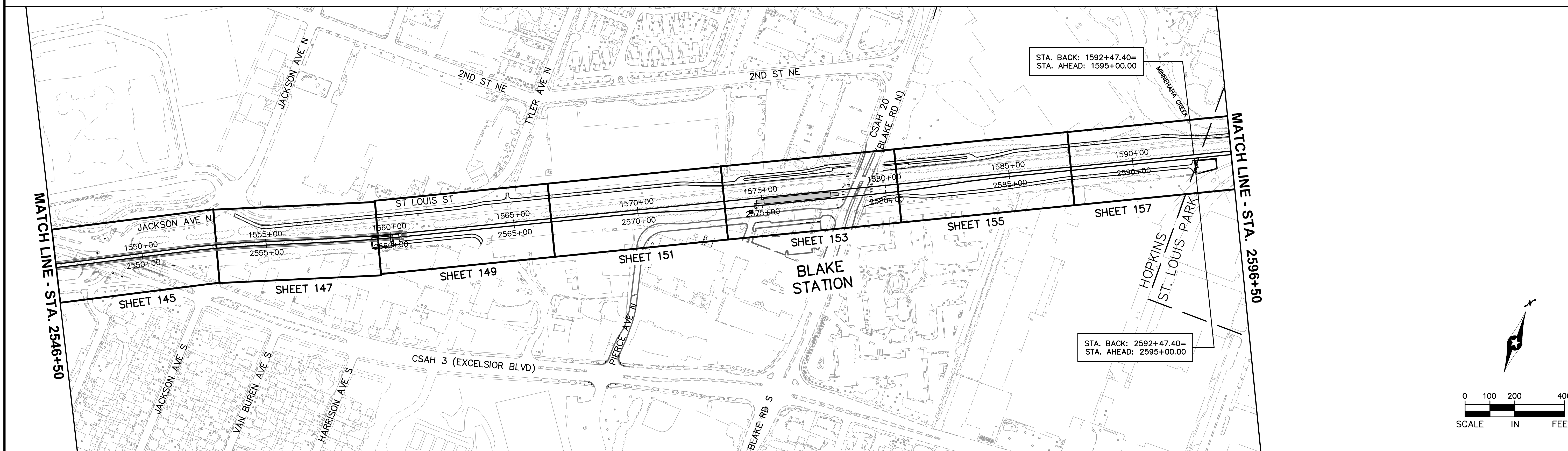

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 4

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-001

SHEET 12 OF 464

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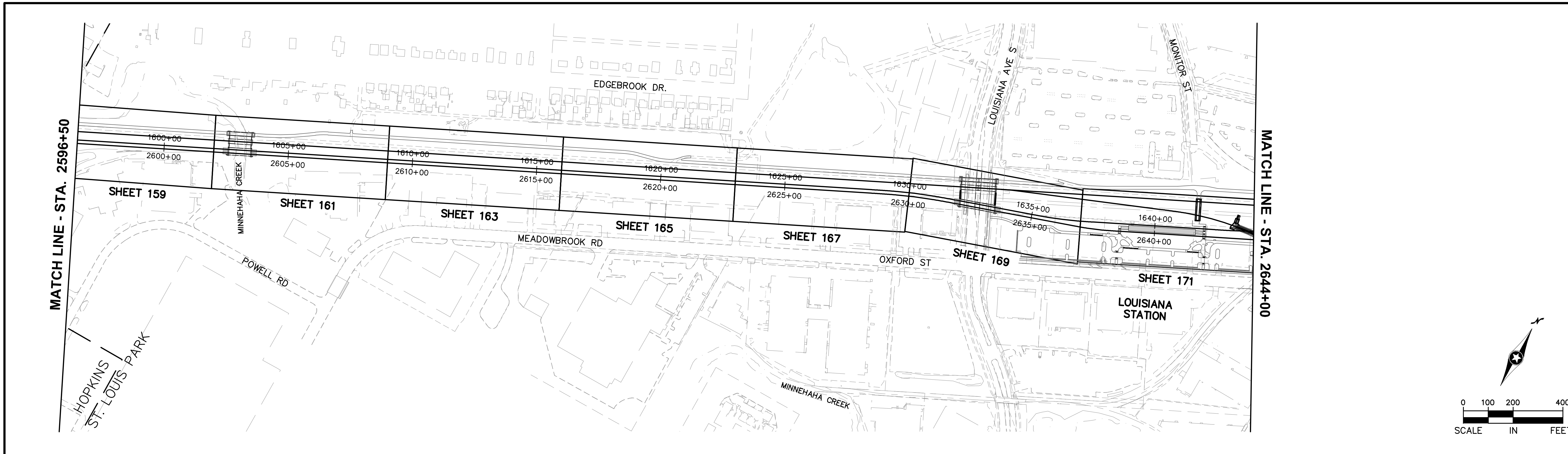

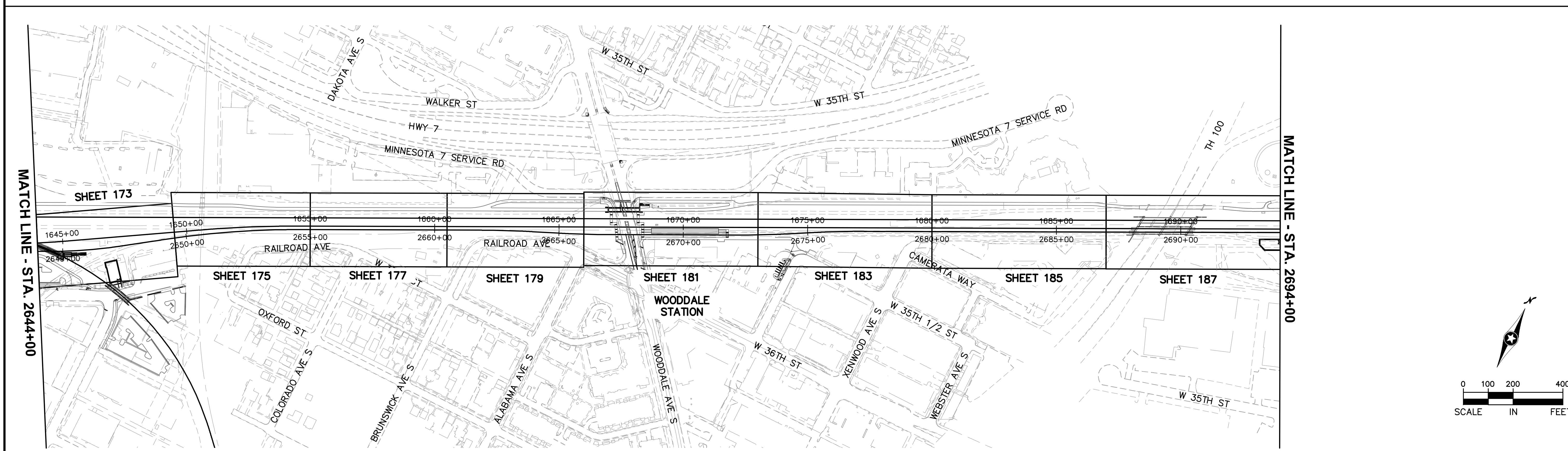

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METROPOLITAN COUNCIL

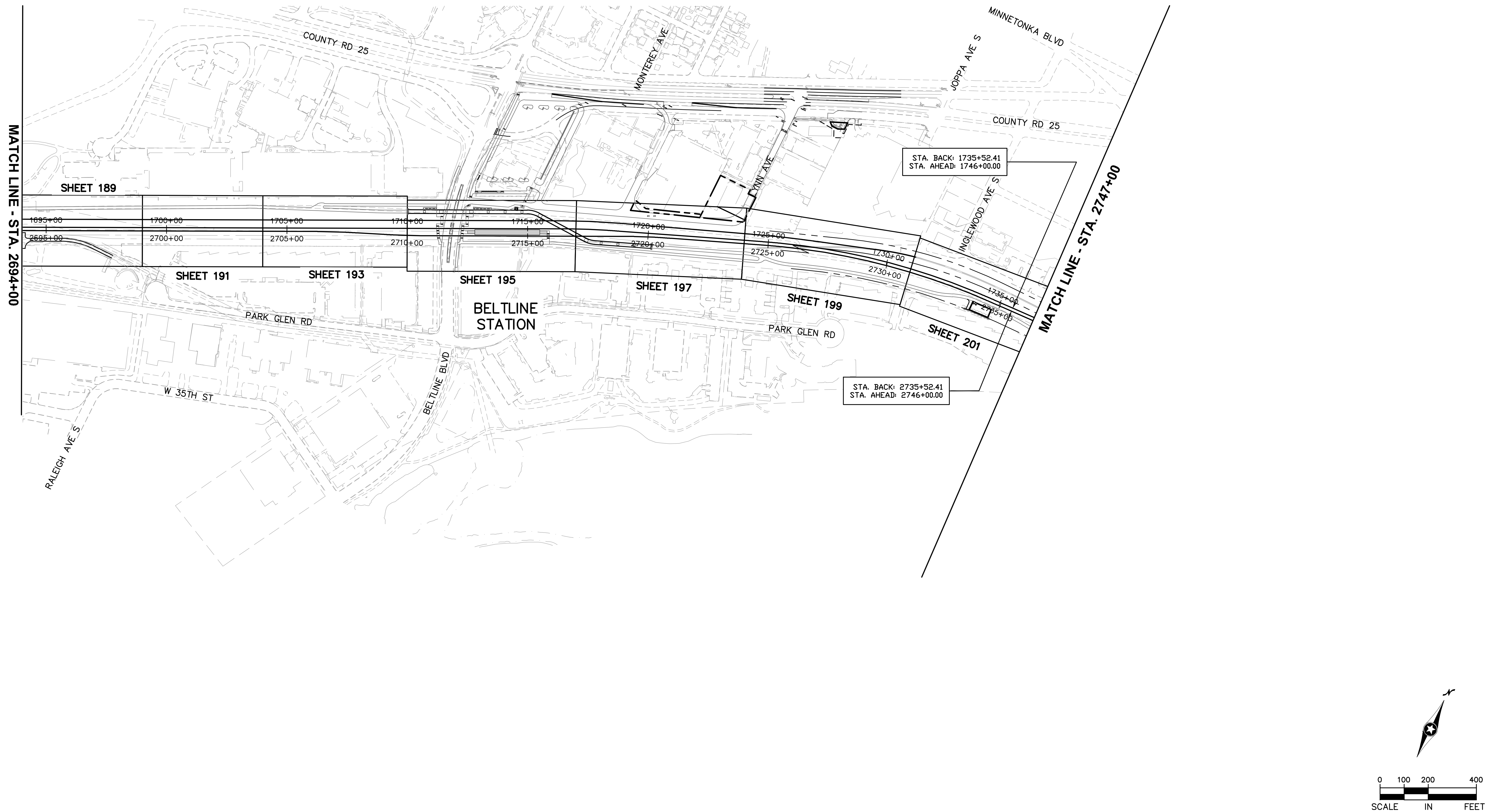
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 5

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-002

SHEET 13 OF 464



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METROPOLITAN COUNCIL

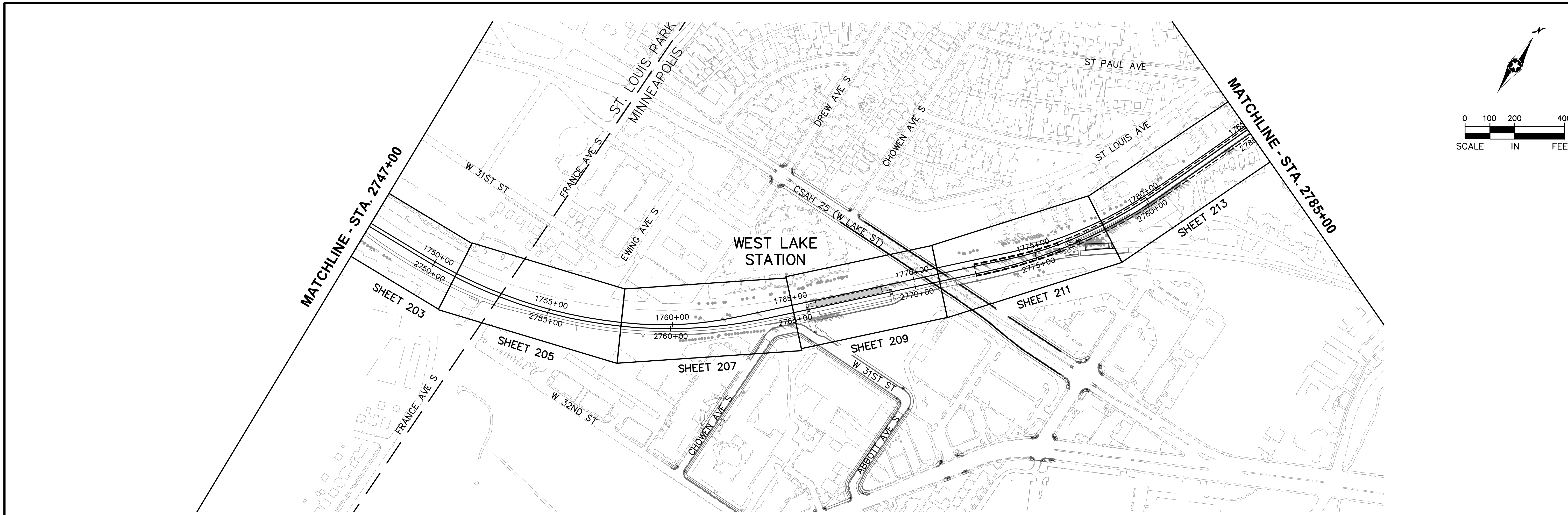
SOUTHWEST Green Line LRT Extension

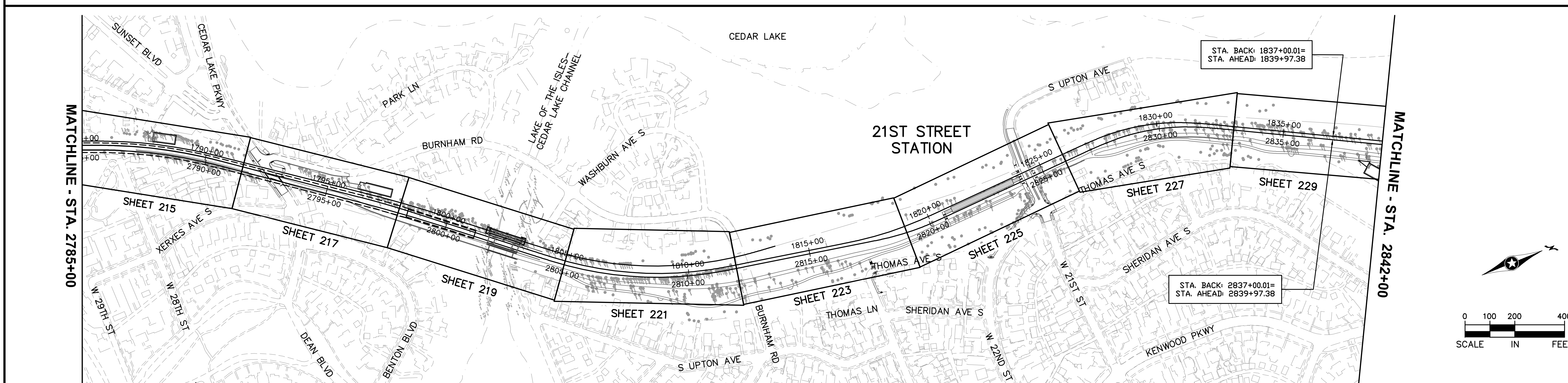
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 6

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-003

SHEET 14 OF 464





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 7

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-004

SHEET 15 OF 464

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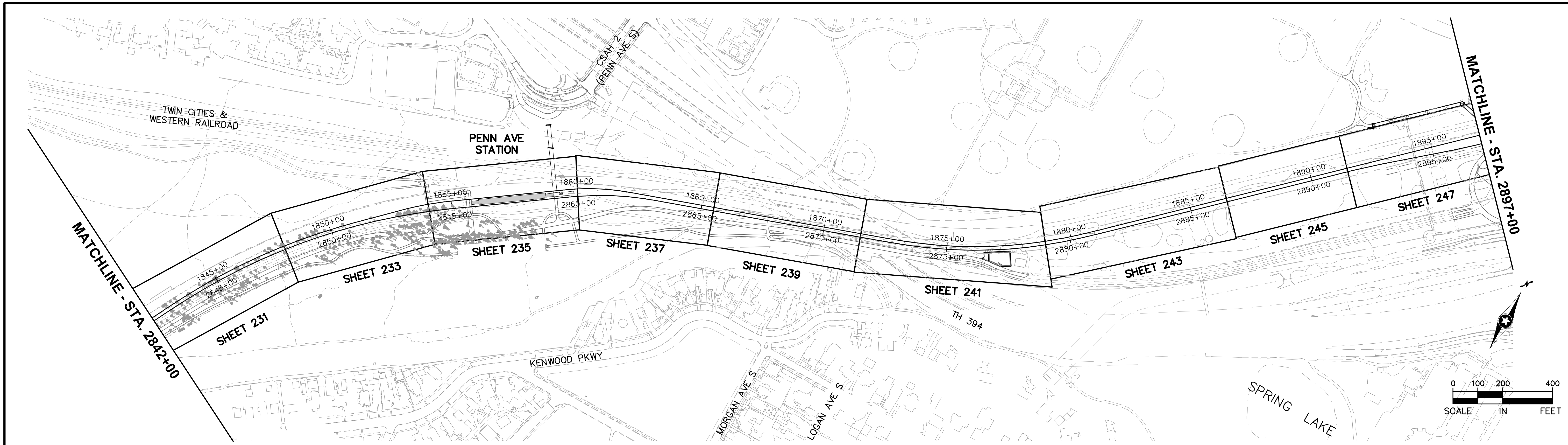

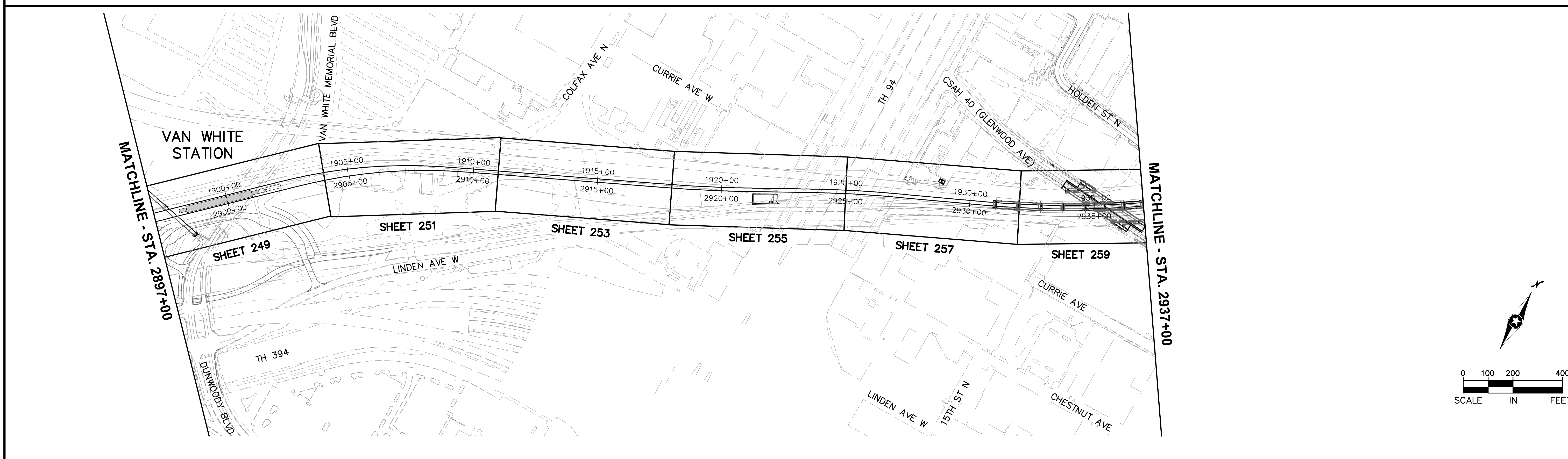

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 8

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-005

SHEET 16 OF 464

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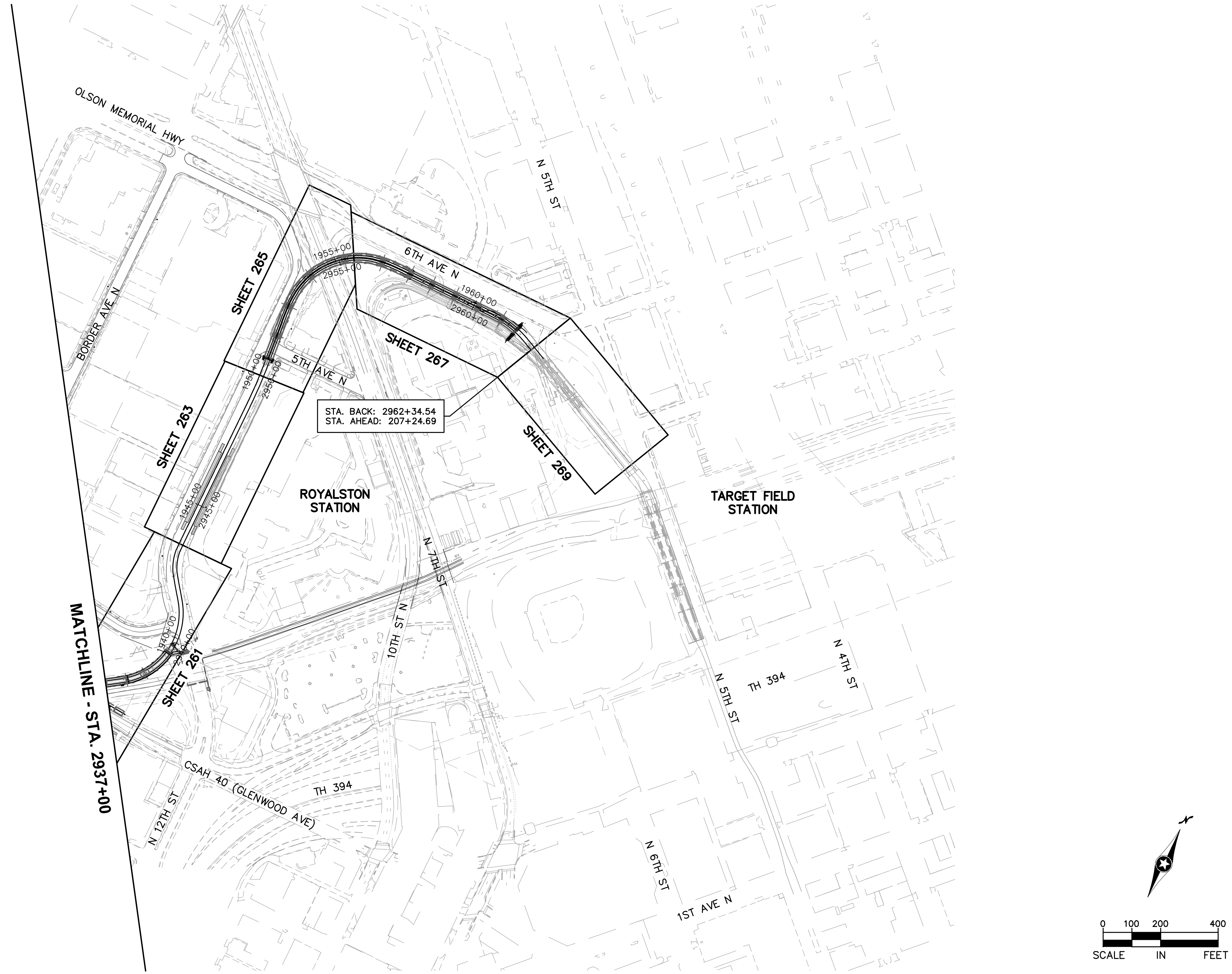

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN SHEET LAYOUT
SHEET 9

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LAY-006

SHEET 17 OF 464

SYSTEMWIDE ELECTRICAL SYMBOLS & GENERAL NOTES

SYMBOLS:

SC-MH-XXXX	SC MANHOLE XXXX ID
TE-MH-XXXX	TE MANHOLE XXXX ID
SC-HH-XXXX	SC HANDHOLE XXXX ID
TE-HH-XXXX	TE HANDHOLE XXXX ID
ET-TBX-XXXX	ET TRANSITION BOX XXXX ID
ID-XXXX	INTRUSION DETECTION XXXX ID
MC-XXXX	MC DUCTBANK XXXX ID
ET-XXXX	EXPRESS TROUGH XXXX ID
SC-XXXX	SC DUCTBANK XXXX ID
TE-XXXX	TE DUCTBANK XXXX ID
SC-XXXX	SC CONDUIT XXXX ID
TE-XXXX	TE CONDUIT XXXX ID
LV-XXXX	LV CONDUIT/DUCTBANK XXXX ID
	BURIED CONDUIT CONTINUED IN ANOTHER DESIGN PACKAGE AS SPECIFIED
	CONCEALED CONDUIT OR DUCTBANK
CSO-XXXX	CONDUIT STUBBED OUT HORIZONTALLY AND CAPPED
	CONDUIT, TURNED AWAY FROM OBSERVER
CSU-XXXX	CONDUIT, TURNED TOWARDS OBSERVER (STUB-UP)
	EXPOSED CONDUIT

TPSS BUILDING (NIC)	
LRT SIGNAL/COMM HOUSE (NIC)	
FREIGHT SIGNAL HOUSE	
IMPEDANCE BOND PLINTH MOUNTED ARRANGEMENT	ZBF-XXXX
WAYSIDE SIGNAL POLE FOUNDATION AND STUB-UP	SF-XXXX
IMPEDANCE BOND RAIL ACCESS BOX	ZB-XXXX
SWITCH MACHINE (NIC)	
TWC ANTENNA-BALLASTED AND DF TRACK, JUNCTION BOX ONLY	JB-XXXX
TWC ANTENNA-EMBEDDED TRACK	TWC-XXXX
LIGHT RAIL VEHICLE TRAFFIC DETECTION LOOP	LRV-XXXX
TYPICAL OCS POLE FOUNDATION	WXXXXXX EXXXXXX
CONDUIT STUB-UP	CSU-XXXX
PULL BOX	PB-XXXX
BRIDGE/TUNNEL INTRUSION DETECTION FOUNDATION AND STUB-UP	BID-XXXX
JUNCTION BOX	JB-XXXX
FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX	IDF-XXXX
FOUNDATION	FDN-XXXX
LRT CROSSING GATE FOUNDATION & STUB UP ONLY	GF-XXXX
FREIGHT CROSSING GATE	CG-XXXX
FREIGHT FLASHER	PF-XXXX
LRT FLASHER FOUNDATION & STUB UP ONLY	PF-XXXX
LRT CANTILEVER FOUNDATION & STUB UP ONLY	CL-XXXX
FREIGHT CANTILEVER SIGNAL	CL-XXXX
FRICTION MODIFIER FOUNDATION AND STUB-UP	FM-XXXX

GENERAL NOTES:

1. ITEMS SHOWN SCREENED ARE EITHER NOT-IN-CONTRACT (NIC) OR ARE PART OF ANOTHER DESIGN PACKAGE.
2. DEPTH OF CONDUITS MAY VARY SLIGHTLY IN ORDER TO ACHIEVE ADEQUATE DRAINAGE INTO MANHOLES, HANDHOLES AND PULLBOXES. SEE SPECIFICATIONS.
3. ALL HANDHOLES AND MANHOLES SHALL BE LOCATED WITH LONG SIDE PARALLEL TO TRACKS UNLESS OTHERWISE NOTED
4. COORDINATE INSTALLATION OF DUCTBANKS AT TRACK DRAINS AND BELOW TRACK SLABS.
5. LOCATION OF KNOWN EXISTING UNDERGROUND UTILITIES IS INDICATED ON UTILITY DRAWINGS. FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING INSTALLATION OF THIS WORK.
6. PROVIDE CORROSION PROTECTION FOR ALL DIRECT-BURIED OR ENCASED GRS PER SPECIFICATIONS
7. FOR OCS FOUNDATION DETAILS SEE SHEETS 00-SYS-OCS-FND-001 TO 00-SYS-OCS-FND-007
8. SEE VOLUME 3 FOR TRACKWORK DESIGN
9. SEE VOLUME 8 FOR DRAINAGE DESIGN
10. SEE VOLUME 10A FOR TRAFFIC DESIGN
11. SEE VOLUME 11 FOR STATION ELECTRICAL DESIGN
12. SEE SYSTEMS & TUNNEL FACILITIES CONTRACT FOR SYSTEMS DESIGN.

A SECTION SCALE: NTS	SECTION A
1 / XXXX	DETAIL No. 1 ON XXXX = SHEET No.
1 DETAIL SCALE: NTS	DETAIL No. 1 (WHERE INDICATED OR SHOWN)
A	SECTION CROSS SECTION

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SYMBOLS AND GENERAL NOTES

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-LGD-001

A

ABD	ABANDON, ABANDONED
ABUT	ABUTMENT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
ADJ	ADJACENT
A/G	AT GRADE
AH	AHEAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALUMINUM
AP	APPROACH
APPROX	APPROXIMATE
AREMA	AMERICAN RAILWAY ENGINEERING & MAINTENANCE OF WAY ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING & MATERIAL
ATM	ALONG TRACK MOVEMENT
ATR	ABOVE TOP OF RAIL
AVG	AVERAGE

B

BARR	BARRIER
B/B	BACK TO BACK
BC	BOLT CIRCLE, BATTERY CHARGER
BFA	BY-PASS FEEDER ANCHOR
BID	BRIDGE INTRUSION DETECTION
BIL	BASIC INSULATION LEVEL
BK	BACK
BLDG	BUILDING
BL	BASELINE, BLUE LINE
BM	BEAM
BOBP	BOTTOM OF BASE PLATE
BOS	BOTTOM OF STEEL
BR	BRIDGE
BRKT	BRACKET
BSF	BAR SIGNAL FOUNDATION
BTM	BOTTOM
BTWN	BETWEEN
BZ	BRONZE

C

C	CELSIUS, CONDUCTOR
CAB	CABINET
CANT	CANTILEVER
CB	CIRCUIT BREAKER
CF	CUBIC FEET
CG	CROSSING GATE
CHAM	CHAMFER
CHGR	CHARGER
CIP	CAST-IN-PLACE
CISP	CAST IRON SEWER PIPE
CKT	CIRCUIT
CL TO CL	CENTERLINE TO CENTERLINE
CLR	CLEARANCE, CLEAR
CND	CONDUIT
COMM	COMMUNICATIONS
COMPT	COMPARTMENT
CONC	CONCRETE
COND	CONDUCTOR
CONT	CONTINUATION, CONTINUOUS
CR	CONDUIT RISER
CS	CANTILEVEL SIGNAL
CSAH	COUNTY-STATE-AID HIGHWAY
CSO	CONDUIT STUB OUT
CSU	CONDUIT STUB UP
CT	CLEARANCE TIME
CTR	CENTER
CU	COPPER
C/W	CONTACT WIRE
CWA	COUNTERWEIGHT ASSEMBLY
CWTD	CONSTANT WARNING TIMED DEVICE
CY	CUBIC YARD

D

D	DEPTH
DB	DIRECT BURIAL, DIRECT BURY
DC	DIRECT CURRENT
DEG	DEGREE
DF	DIRECT FIXATION
DGA	DOWN GUY ANCHOR
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DIST	DISTRIBUTION
DR	DRIVE
DTL	DETAIL
DWG	DRAWING

E

E	EAST
EA	EACH
EB	EASTBOUND
ELEC	ELECTRICAL
ELEV	ELEVATION
EOR	EDGE OF ROADWAY
EPR	ETHYLENE PROPYLENE RUBBER
EQ	EQUAL
EQN	EQUATION
EQPT	EQUIPMENT
ET	EXPRESS TROUGH
EX	EXISTING
EXT	EXTERNAL

F

F	FLASHER
FA	FIXED ANCHOR
FAC	FACULTY
FDN	FOUNDATION
FDR	FEEDER
FJ	FEEDER JUMPER
FM	FRICTION MODIFIER
FOP	FACE OF POLE
FOS	FACTOR OF SAFETY
FP	FEEDER POLE
FREQ	FREQUENCY
FS	FAR SIDE
FT	FEET, FOOT
F/T	FIXED TERMINATION
FTG	FOOTING

G

G	GATE
GALV	GALVANIZED
GB	GROUND BUS
GF	GATE FOUNDATION
G/L	GROUND LINE
GLY	GREEN LINE YARD
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GRSC	GALVANIZED RIGID STEEL CONDUIT
GRX	GRADE CROSSING

H

HDG	HOT DIPPED GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
HEX	HEXAGONAL
HH	HANDHOLE
HORIZ	HORIZONTAL
HT	HEIGHT
HV	HIGH VOLTAGE
HWY	HIGHWAY
Hz	HERTZ

I

IC	INSTRUMENT CASE
ID	INSIDE DIAMETER, INTRUSION DETECTION
IDF	INTRUSION DETECTION FOUNDATION
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IJ	INSULATED JOINT
IN	INCH, INCHES
INC	INCOMING
INCL	INCLUDE, INCLUDING
INSUL	INSULATION
ISL	ISLAND

J

J	JUMPER
JB	JUNCTION BOX
JCT	JUNCTION

K

kHz	KILOHERTZ
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kW	KILOWATT

L

LA	LIGHTING ARRESTER
LB	POUND, POUNDS
LB /FT	POUND PER FOOT
LC	LINE CURRENT
LF	LINEAR FEET
LG	LONG, LENGTH
LGTS	LIGHTS
LOC	LOCATION
LRV	LIGHT RAIL VEHICLE
LTG	LIGHTING
LPT	LOW POINT
LRT	LIGHT RAIL TRANSIT
LS	LUMP SUM, LINE SECTION, LINE SEGMENT
LV	LOW VOLTAGE

M

M	METER
MAX	MAXIMUM
MC	MOTOR CONTROL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
M/L	MAIN LINE
MnDOT	MINNESOTA DEPARTMENT OF TRANSPORTATION
MOP	MOTOR OPERATED
MP	MILE POST
MPH	MILES PER HOUR
MTG	MOUNTING
MT	METRO TRANSIT

N

N	NORTH, NEUTRAL
NBS	NARROW BAND SHUNT
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
No	NUMBER
NOM	NOMINAL
NR	NOT REGISTERED, NEGATIVE RETURN
NS	NEAR SIDE, NOT SUPPORTED
NTS	NOT TO SCALE

O

OC	ON CENTER
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHB	OVERHEAD BRIDGE
O/L	OVERLAP
OMF	OPERATIONS & MAINTENANCE FACILITY

P

PB	PULLBOX
PED	PEDESTRIAN
PF	PEDESTRIAN FLASHER
PGRS	PVC COATED GRSC
PH	PHASE
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION OF TURNOUT
PL	PLATE
PLAT	PLATFORM
POS	POSITIVE
PRE-C	PRE-CAST CONCRETE
PROP	PROPOSED
PS	POINT OF SWITCH
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
P/T	POCKET TRACK
PUC	PUBLIC UTILITY COMMISSION
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
PX	PEDESTRIAN CROSSING

Q

QTY	QUANTITY

R

RAB	RAIL ACCESS BOX
RCC	RAIL CONTROL CENTER
RD	ROAD
RE	RUNNING EDGE OF RAIL
REF	REFERENCE
REV	REVISE, REVISION
REQD	REQUIRED
ROW	RIGHT OF WAY
RT	RIGHT
RTU	REMOTE TERMINAL UNIT
RR	RAILROAD
RRX	RAILROAD GRADE CROSSING
RW	RETAINING WALL

S

S	SOUTH
SA	SURGE ARRESTOR
SB	SOUTHBOUND, SPLICE BOX
SC	SIGNAL/COMMUNICATION
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SECT	SECTION
SEG	SEGMENT
SIG	SIGNAL
SMFO	SINGLE MODE FIBER OPTIC
SOP	SET OUT POINT
SP	SURGE PROTECTION
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
STA	STATION, STATIONING
STD	STANDARD
STRUCT	STRUCTURE
SU	STUB-UP
SUSP	SUSPENDED
SW	SWITCH
SWH	SWITCH HEATER
SWHC	SWITCH HEATER CABINET
SWLRT	SOUTHWEST LIGHT RAIL TRANSIT

T

T	TIE SWITCH
TB	TAP BOX, TERMINAL BLOCK
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TBX	TRANSITION BOX
TE	TRACTION ELECTRIFICATION
TEMP	TEMPERATURE, TEMPORARY
TERM	TERMINAL, TERMINATION
TH	TRUNK HIGHWAY
THK	THICK
T/F	TOP OF FOUNDATION
T/G	TOP OF GROUND LINE
TOLR	TOP OF LOW RAIL
TO	TURNOUT
TOC	TOP OF CONCRETE
TOR	TOP OF RAIL
TORW	TOP OF RETAINING WALL
TPSS	TRACTION POWER SUBSTATION
TP	TRACTION POWER
TRANSF	TRANSFORMER
TRK	TRACK
TSH	TUNNEL SYSTEM HOUSE
TTC	TELEPHONE TERMINAL CABINET
TVM	TICKET VENDING MACHINE
TWA	TIE WIRE ANCHOR
TWC	TRAIN-TO-WAYSIDE COMMUNICATIONS
TYP	TYPICAL

U

UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
UTIL	UTILITY

V

V	VOLT
VA	VOLT AMPS
VERT	VERTICAL

W

W	WATT, WIDTH, WIRE
W/	WITH
WB	WESTBOUND
W/O	WITHOUT

X

XB	CROSS BOND
XFMR	TRANSFORMER
X-ING	CROSSING
XOVER	CROSSOVER
XPASS	CROSS PASSAGE
X-SECT	CROSS SECTION

Z

Z	IMPEDANCE
ZB	IMPEDANCE BOND
ZBF	IMPEDANCE BOND FOUNDATION

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
ABBREVIATIONS
SHEET 1

DISCIPLINE: SYSTEMS

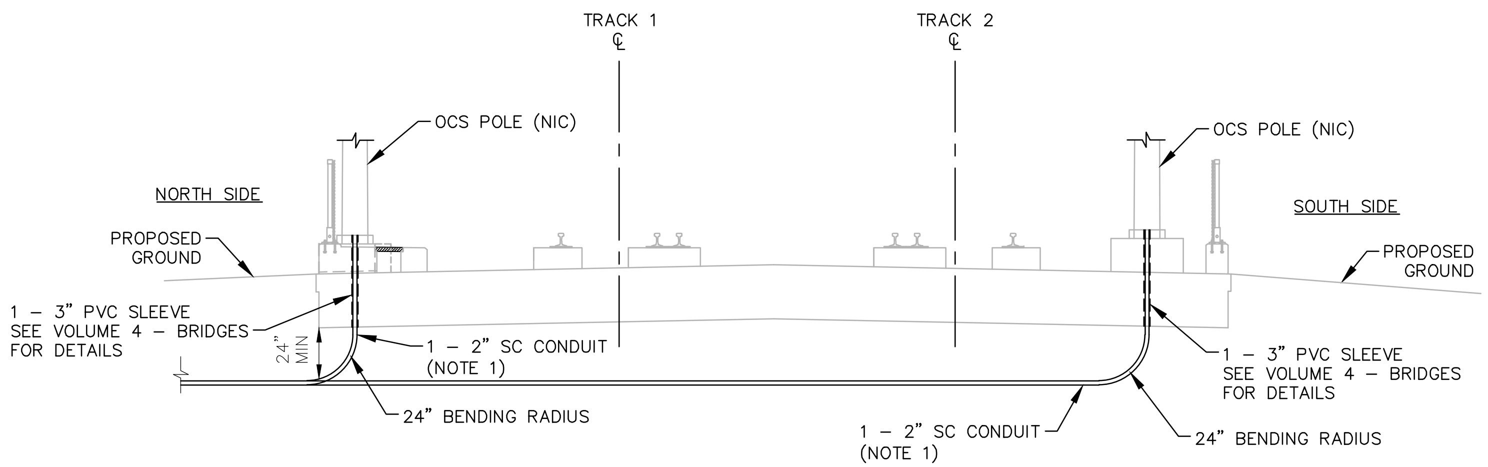
SHEET NAME: E0-SYS-SWE-LGD-002

SIGNALS & COMMUNICATIONS
EQUIPMENT AND HOUSE LOCATION ID ABBREVIATIONS

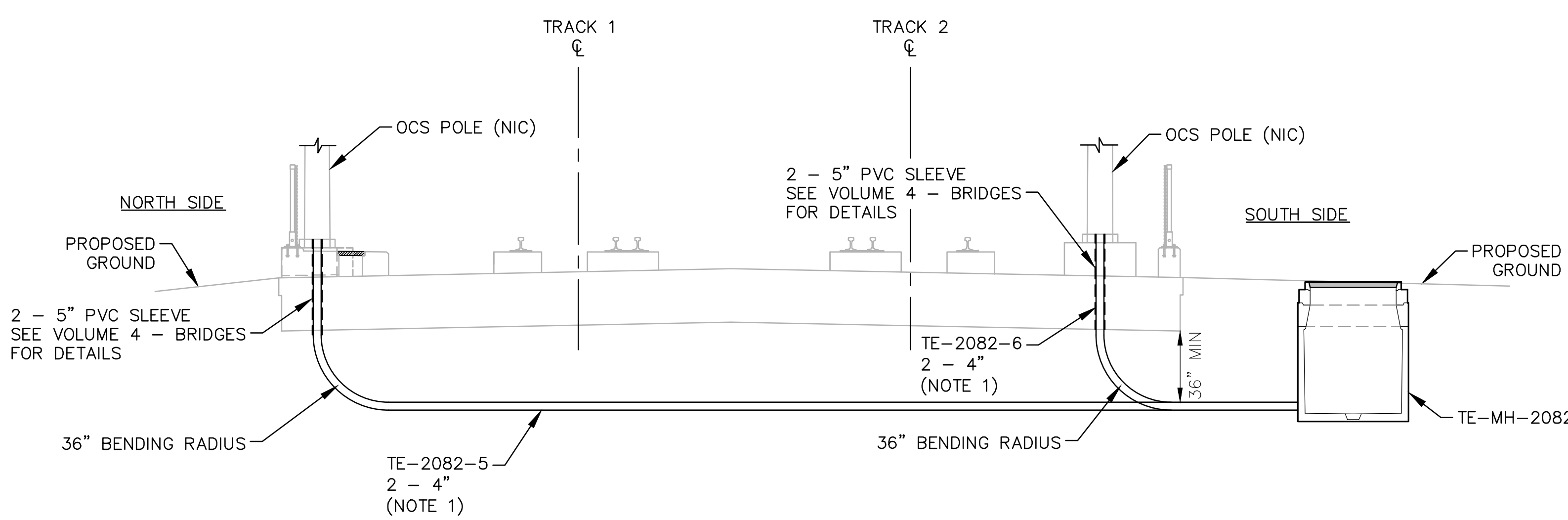
LOCATION ID	LOCATION NAME
SWSI	SOUTHWEST INTERLOCKING
TOCS	TOWN CENTER STATION
PX-TOCS	TOWN CENTER PEDESTRIAN CROSSING
HX-EDEN	EDEN ROAD GRADE CROSSING
HX-TECH	TECHNOLOGY DRIVE GRADE CROSSING
HX-VIKG	VIKING DRIVE GRADE CROSSING
SG2154	INTERMEDIATE SIGNAL 2154-2155
CS2213	CUT SECTION 2213
GTRI	GOLDEN TRIANGLE STATION
PX-GTRI	GOLDEN TRIANGLE PEDESTRIAN CROSSING
CS2275	CUT SECTION 2275
CIWS	CITY WEST STATION
PX-CIWS	CITY WEST PEDESTRIAN CROSSING
HX-YCDR	YELLOW CIRCLE DRIVE GRADE CROSSING
OPUS	OPUS STATION
OPUI	OPUS INTERLOCKING
SG2380	INTERMEDIATE SIGNAL 2380-2381
5THI	5TH STREET INTERLOCKING
PX-SHOA	SHADY OAK PEDESTRIAN CROSSING
HX-11TH	11TH AVENUE SOUTH GRADE CROSSING
HOPS	DOWNTOWN HOPKINS STATION
PX-HOPS	DOWNTOWN HOPKINS PEDESTRIAN CROSSING
HX-5THT	5TH AVENUE SOUTH LRT GRADE CROSSING
CS2535	CUT SECTION 2535
HX-EXCF	EXCELSIOR BOULEVARD GRADE CROSSING
BLAS	BLAKE STATION
HX-BLAT	BLAKE ROAD LRT GRADE CROSSING
HX-BLAF	BLAKE ROAD FREIGHT GRADE CROSSING
CS2595	CUT SECTION 2595
LOUI	LOUISIANA INTERLOCKING
PX-LOUS	LOUISIANA AVENUE PEDESTRIAN CROSSING
LOUS	LOUISIANA AVENUE STATION
HX-WODT	WOODDALE AVENUE LRT GRADE CROSSING
HX-WODF	WOODDALE AVENUE FREIGHT GRADE CROSSING
WODS	WOODDALE STATION
CS2694	CUT SECTION 2694
HX-BLBT	BELTLINE BOULEVARD LRT GRADE CROSSING
HX-BLBF	BELTLINE BOULEVARD FREIGHT GRADE CROSSING
BLBI	BELTLINE STATION/INTERLOCKING
PX-BLBS	BELTLINE STATION PEDESTRIAN CROSSING
WLKS	WEST LAKE STATION
PX-WLKS	WEST LAKE PEDESTRIAN CROSSING
CS2788	CUT SECTION 2788
HX-CLPF	CEDAR LAKE PARKWAY GRADE CROSSING
KENS	KENILWORTH TUNNEL SIGNAL HOUSE
21SS	21ST STREET STATION
HX-21SF	21ST STREET GRADE CROSSING
PX-PENN	PENN AVENUE TRAIL CROSSING
PENS	PENN AVE STATION
PENI	PENN AVENUE INTERLOCKING
PX-VAWS	VAN WHITE PEDESTRIAN CROSSING
VAWS	VAN WHITE STATION
CS2922	CUT SECTION 2922
HX-GLEN	GLENWOOD AVENUE GRADE CROSSING
HX-ROYS	ROYALSTON AVENUE GRADE CROSSING
ROYS	ROYALSTON STATION
PX-ROYS	ROYALSTON PEDESTRIAN CROSSING
INTS	INTERCHANGE INTERFACE SIGNAL HOUSE

NOTES:

1. SEE SHEET W0-SYS-SWE-DTL-014 FOR CONDUIT STUB UP DETAILS.
2. SEE SHEETS W1-SYS-SWE-PRF-001 AND W1-SYS-SWE-SCH-001 FOR LAYOUT PLAN AND SCHEDULE.



1 BRIDGE 27C06
NTS – STA 2082+24



2 BRIDGE 27C06
NTS – STA 2082+94

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METROPOLITAN COUNCIL

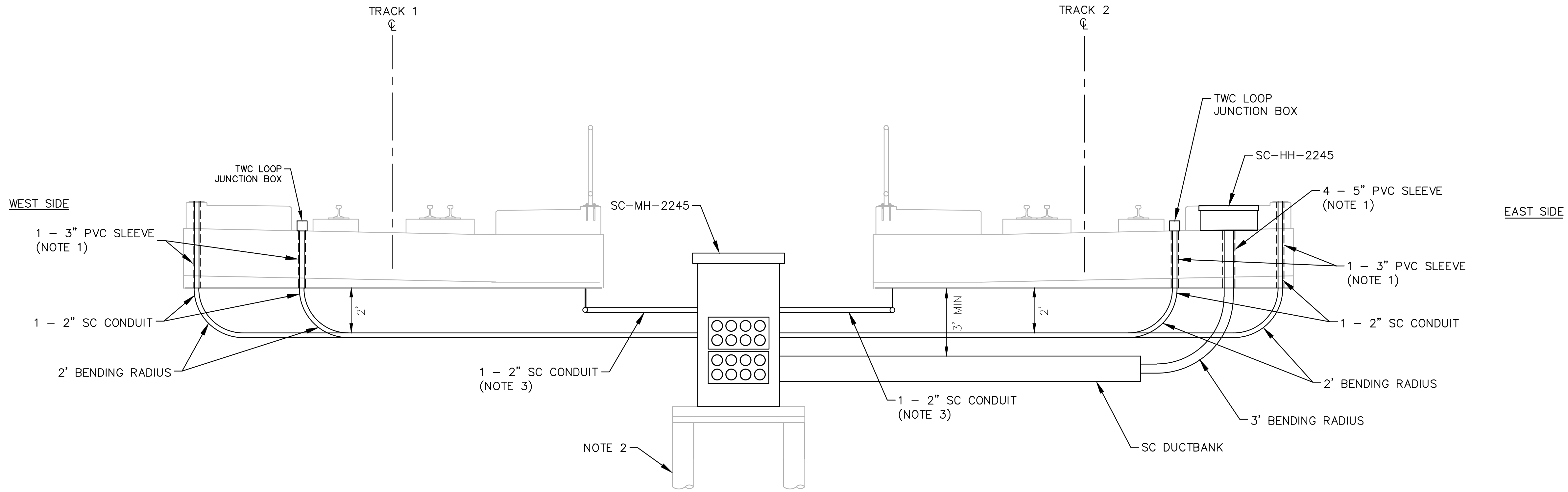
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 1

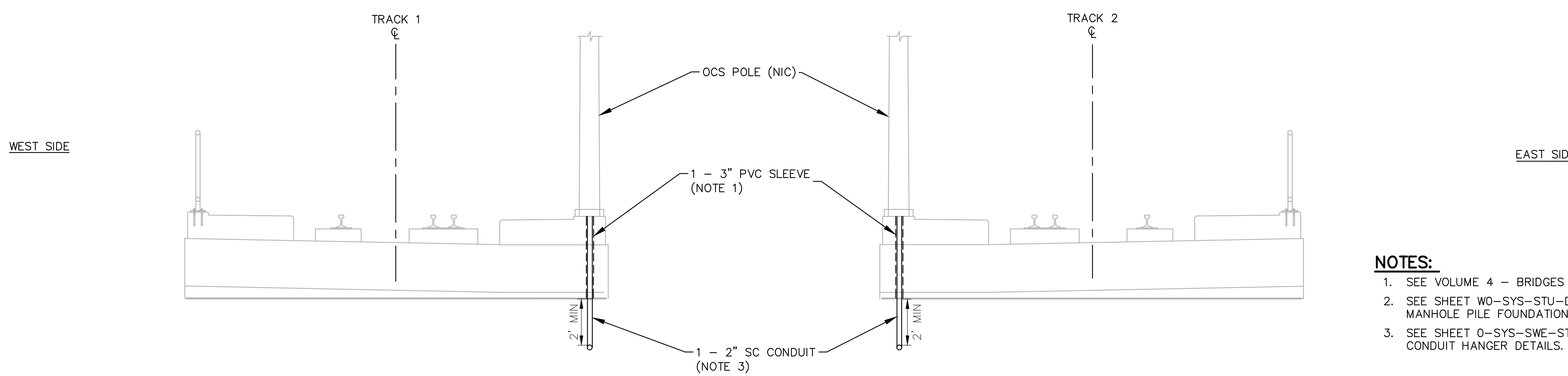
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-TYP-001

SHEET 21 OF 464



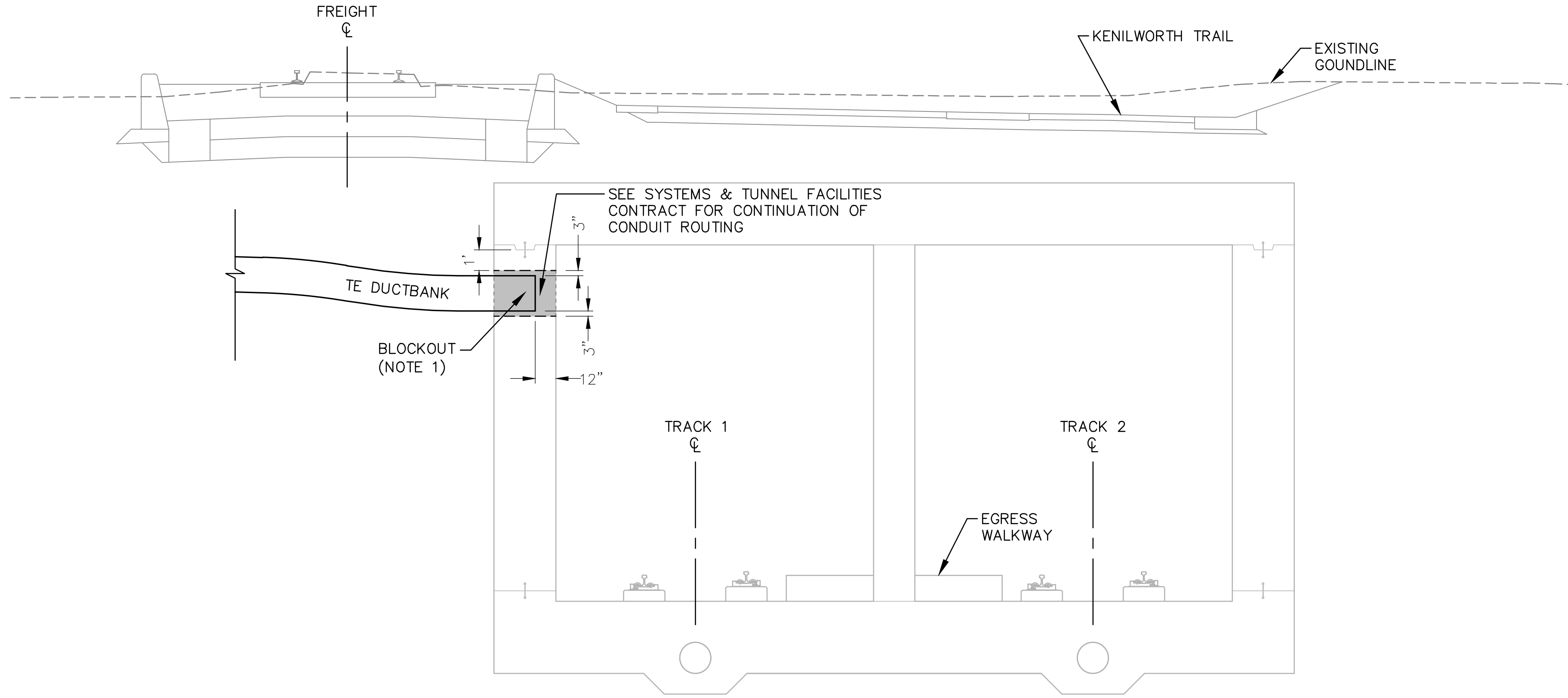
1 BRIDGE 27R34
NTS – STA. 2245+90



2 BRIDGE 27R34
NTS – STA. 2246+30

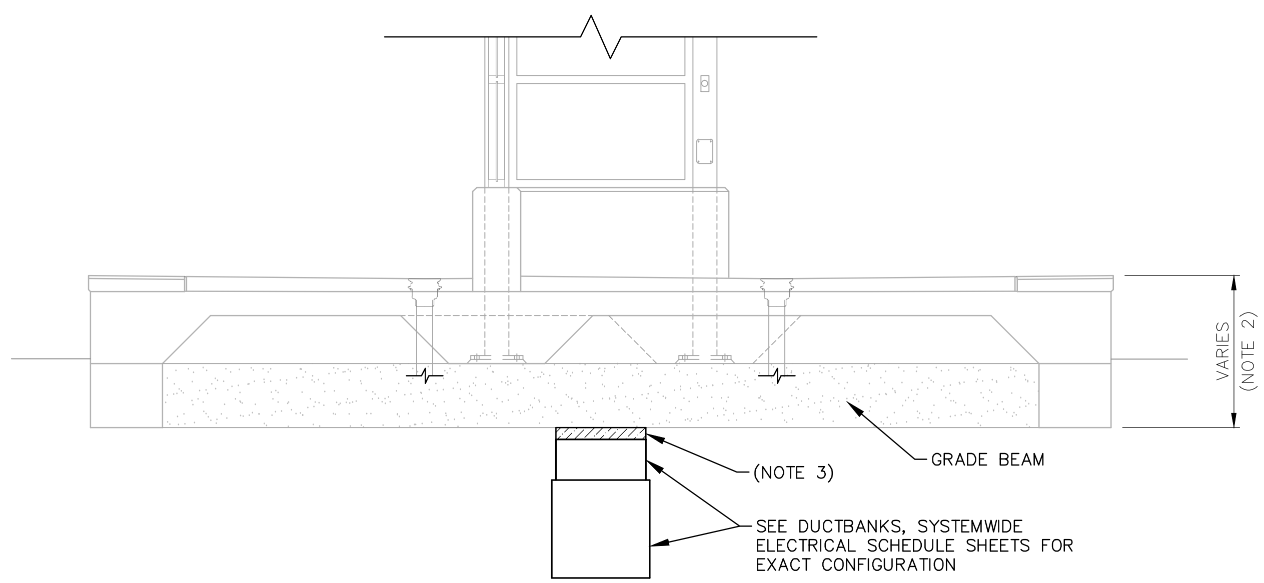
NOTES:

1. SEE VOLUME 4 – BRIDGES FOR SLEEVE DETAILS.
2. SEE SHEET W0-SYS-STU-DTL-004 FOR MANHOLE PILE FOUNDATION DETAILS.
3. SEE SHEET 0-SYS-SWE-STL-TES-009 FOR CONDUIT HANGER DETAILS.



1 KENILWORTH TUNNEL SIDE PENETRATION TYPICAL SECTION

NTS – STA 2788+09 AND STA 2788+49



2 STATION PLATFORM TYPICAL SECTION

NTS

NOTES:

1. SEE VOLUME 5 – TUNNELS FOR DETAILS.
2. PLUMBING PIPES AND GROUNDING WIRES TO RESIDE ABOVE BOTTOM OF GRADE BEAM.
3. PLACE 3" THICK COMPRESSIBLE LOW DENSITY EXPANDED POLYSTYRENE (EPS) PRODUCT BY CLAYMASTER OR EQUAL BETWEEN TOP OF DUCTBANK AND BOTTOM OF GRADE BEAM.

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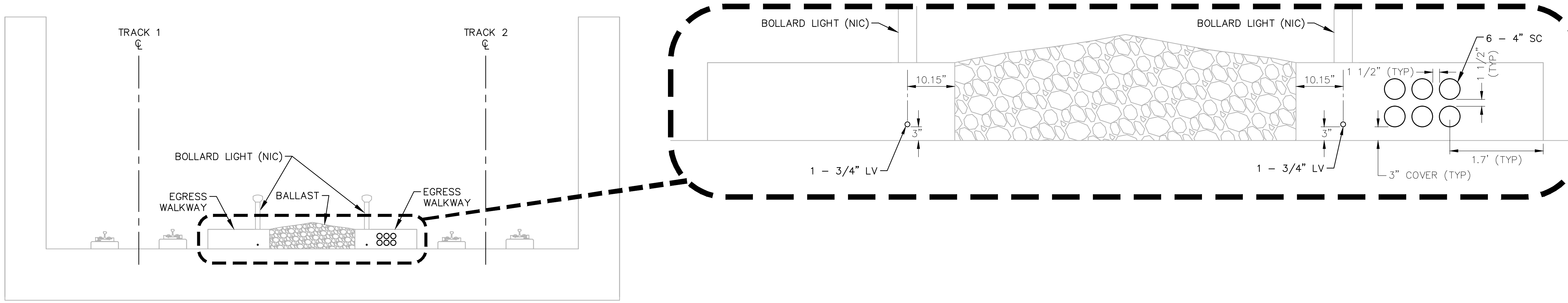
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 3

DISCIPLINE: SYSTEMS

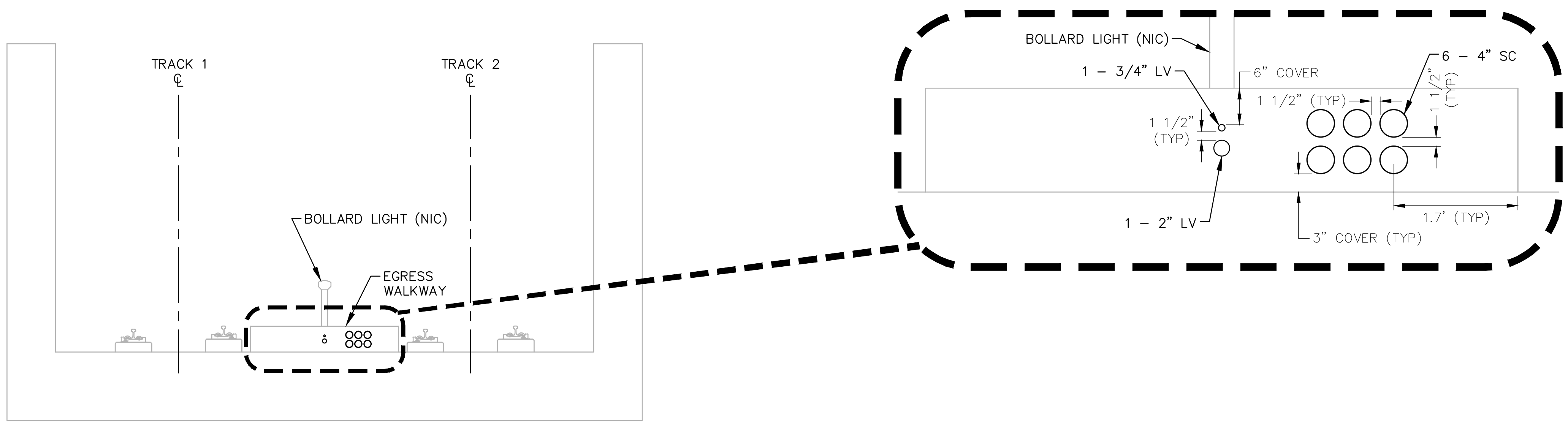
SHEET NAME: W0-SYS-SWE-TYP-003

SHEET 23 OF 464



KENILWORTH – WEST BOAT SECTION
SPLIT WALKWAY

1 NTS – STA 2772+50 TO STA 2774+36



KENILWORTH – WEST BOAT SECTION
COMBINED WALKWAY 1

2 NTS – STA 2774+36 TO STA 2775+68

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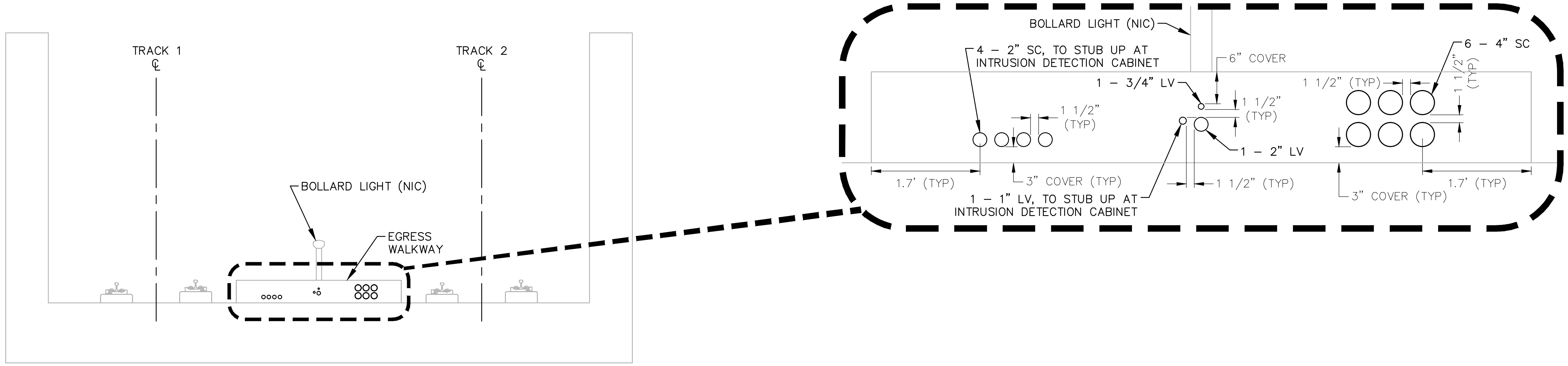
SOUTHWEST Green Line LRT Extension

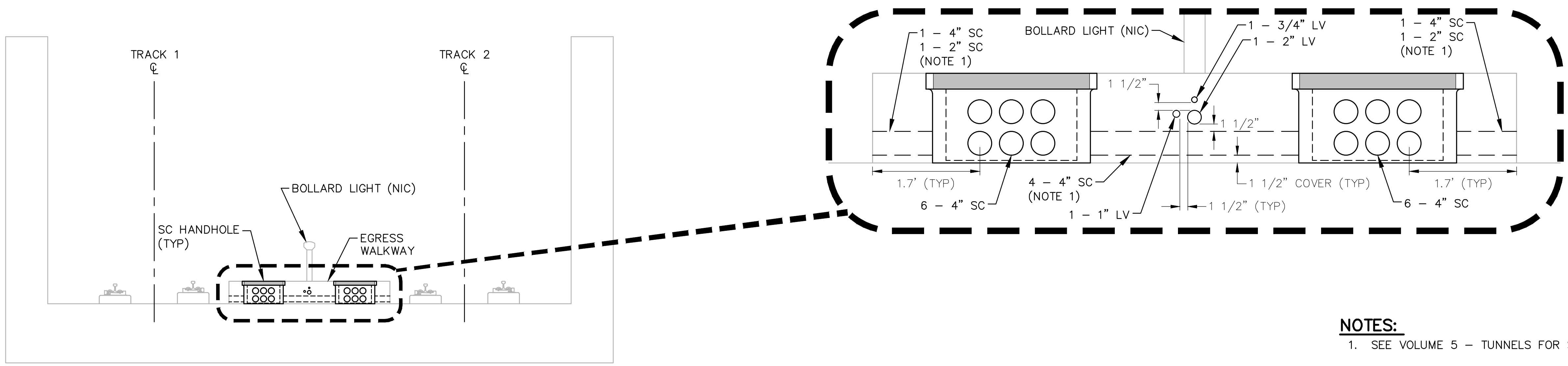
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 4

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-TYP-004



1 KENILWORTH – WEST BOAT SECTION
COMBINED WALKWAY 2
NTS – STA 2775+68 TO STA 2775+78



2 KENILWORTH – WEST BOAT SECTION
COMBINED WALKWAY 3
NTS – STA 2775+78 TO STA 2775+83

NOTES:

1. SEE VOLUME 5 – TUNNELS FOR SLEEVE DETAIL.

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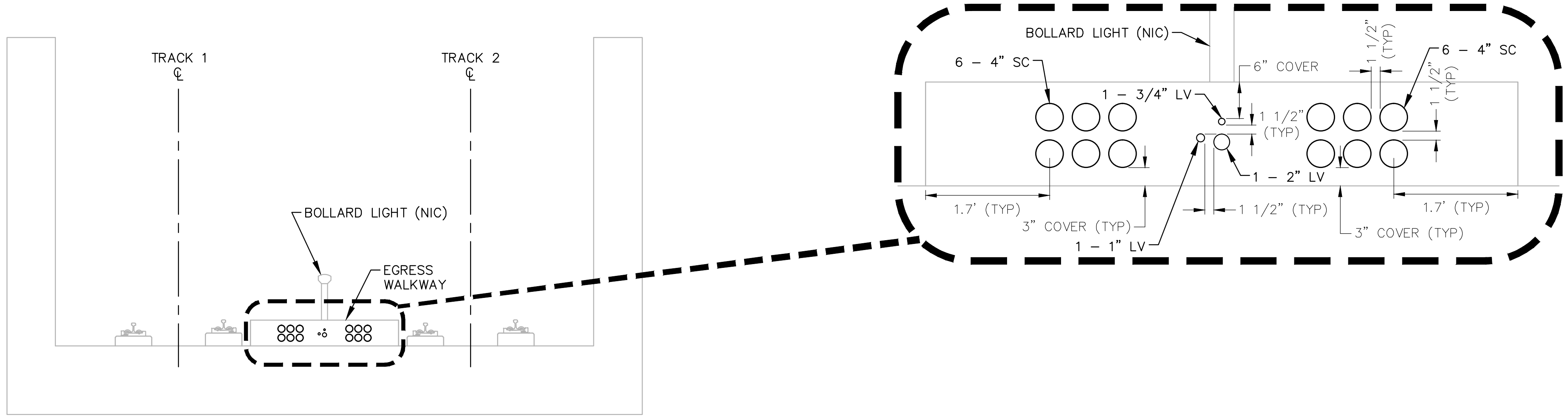
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 5

DISCIPLINE: SYSTEMS

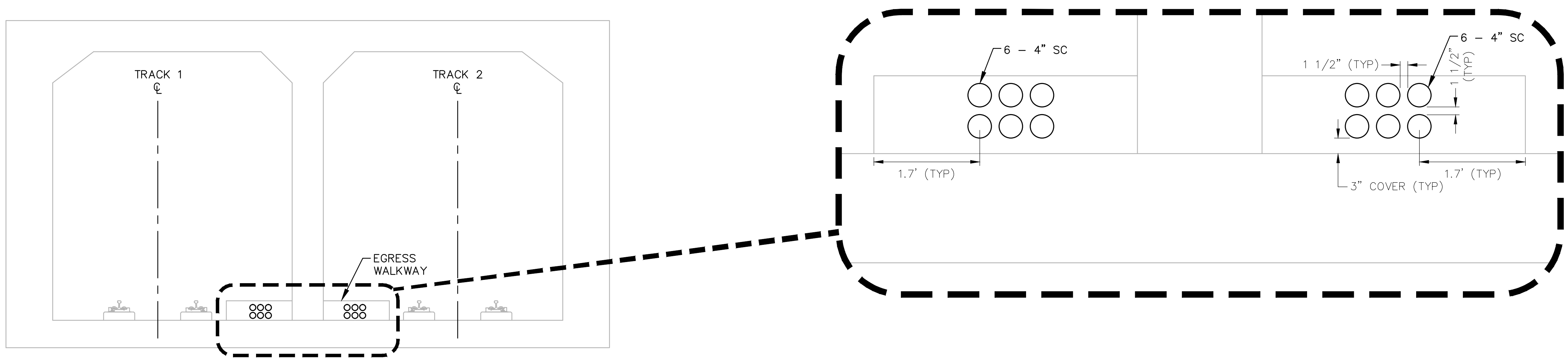
SHEET NAME: W0-SYS-SWE-TYP-005

SHEET 25 OF 464



KENILWORTH – WEST BOAT SECTION
COMBINED WALKWAY 4

1 NTS – STA 2775+83 TO STA 2776+00



KENILWORTH TUNNEL
& T.H. 62 TUNNEL

2 NTS – STA 2776+00 TO STA 2798+36
STA 2305+00 TO STA 2310+82

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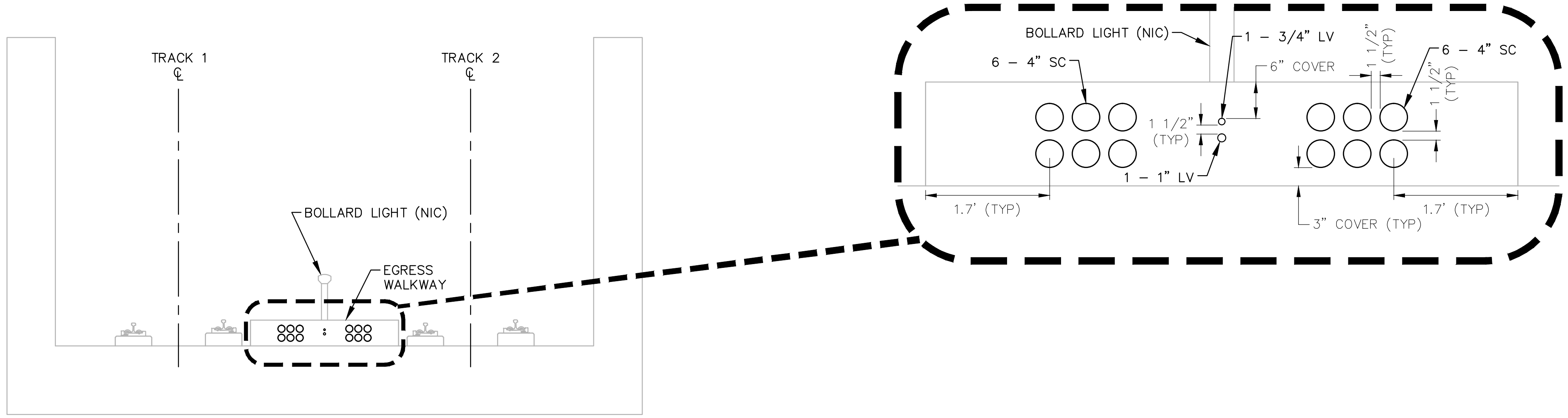
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 6

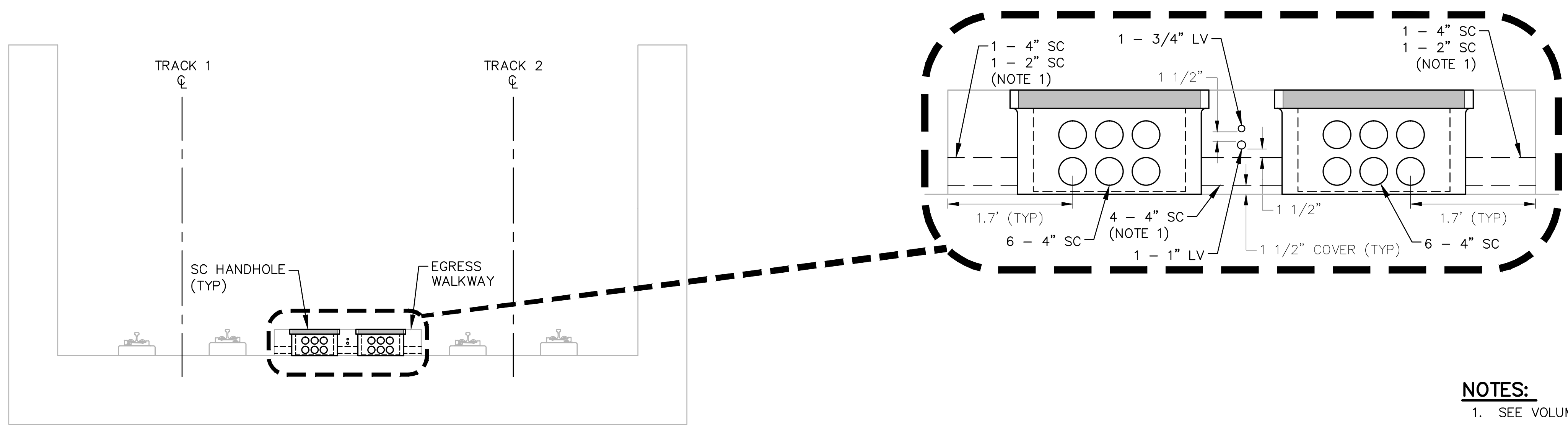
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-TYP-006

SHEET 26 OF 464



1 KENILWORTH – EAST BOAT SECTION 1
NTS – STA 2798+36 TO STA 2798+48



NOTES:

1. SEE VOLUME 5 – TUNNELS FOR SLEEVE DETAIL.

2 KENILWORTH – EAST BOAT SECTION 2
NTS – STA 2798+48 TO STA 2798+54

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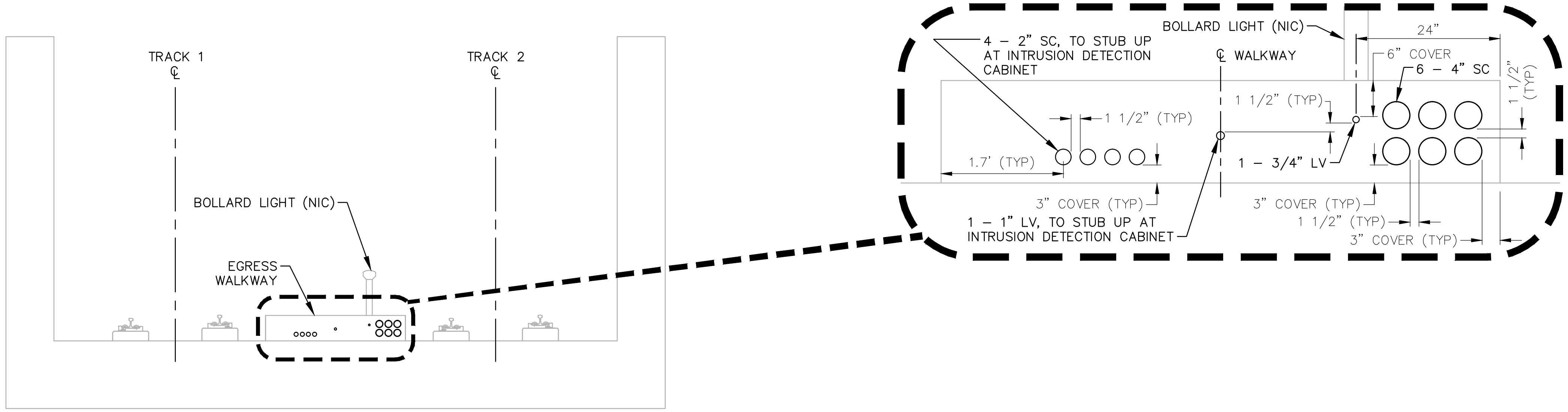
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 7

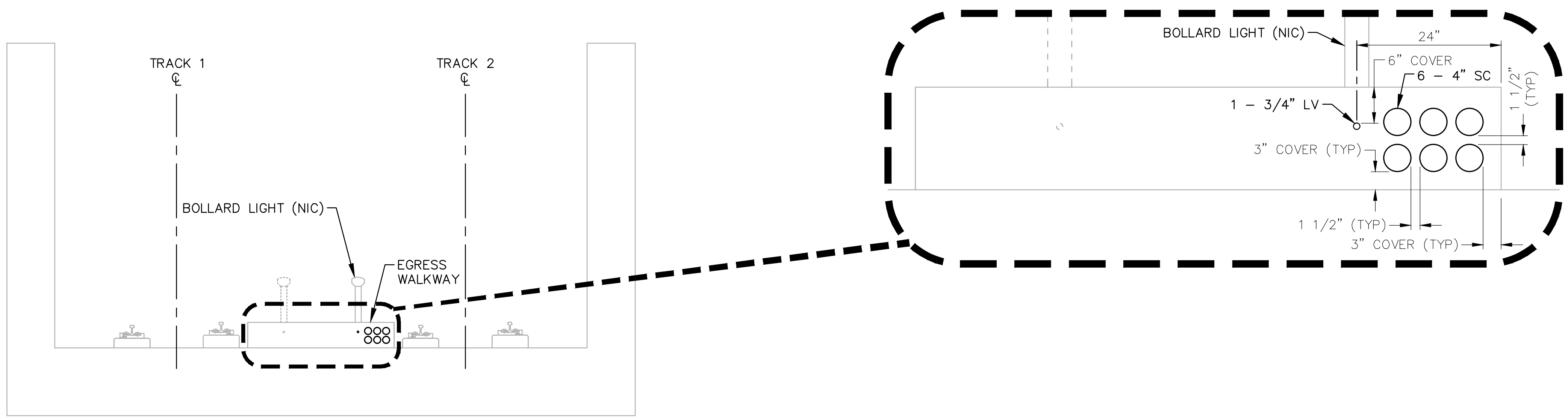
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-TYP-007

SHEET 27 OF 464



1 KENILWORTH – EAST BOAT SECTION 3
NTS – STA 2798+54 TO STA 2798+60



2 KENILWORTH – EAST BOAT SECTION 4
NTS – STA 2798+60 TO STA 2801+20

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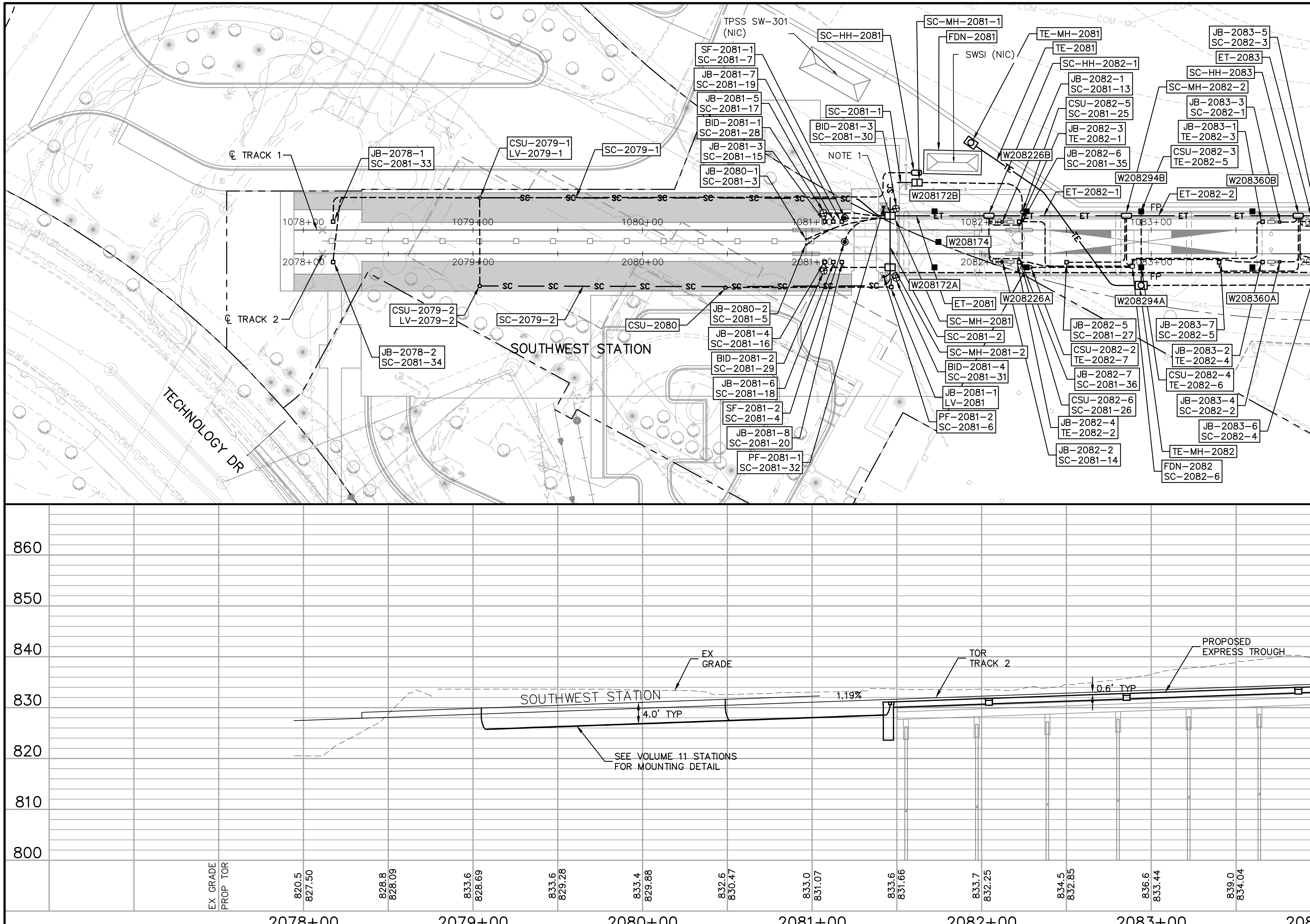
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL SECTIONS
SHEET 8

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-TYP-008



NOTES:
1. SEE VOLUME 11 STATIONS FOR EXPRESS TROUGH BETWEEN SC-MH-2081 AND ET-2081.

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2077+80 TO STA 2084+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-001

SHEET 29 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2081	2081+46	22.5' L	SWE-DTL-003	SC MANHOLE
SC-MH-2081-1	2081+61	42.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2081-2	2081+46	8.0' R	SWE-DTL-003	SC MANHOLE
SC-HH-2081	2081+61	48.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2082-1	2082+04	22.5' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2082-2	2082+85	22.5' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2083	2083+86	22.5' L	SWE-DTL-005	SC HANDHOLE
TE-MH-2081	2081+94	65.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2082	2082+97	18.0' R	SWE-DTL-002	TE MANHOLE
FDN-2081	2081+83	54.0' L	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
FDN-2082	2082+89	7.3' R	SWE-DTL-SIG-016	SWITCH HEATER FOUNDATION AND STUB UP
SF-2081-1	2081+19	21.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2081-2	2081+19	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
PF-2081-1	2081+42	27.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2081-2	2081+42	13.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2078-1	2078+18	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2078-2	2078+18	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2080-1	2080+80	17.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2080-2	2080+80	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2081-1	2081+46	19.0' L		LV JUNCTION BOX
JB-2081-3	2081+08	19.0' L	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2081-4	2081+08	5.0' R	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2081-5	2081+13	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2081-6	2081+13	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2081-7	2081+18	19.0' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2081-8	2081+18	5.0' R	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2082-1	2082+12	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2082-2	2082+12	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2082-3	2082+22	19.0' L	SWE-DTL-SIG-019	SWITCH HEATER JUNCTION BOX
JB-2082-4	2082+22	5.0' R	SWE-DTL-SIG-019	SWITCH HEATER JUNCTION BOX
JB-2082-5	2082+50	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2082-6	2082+22	17.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2082-7	2082+22	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2083-1	2083+66	19.0' L	SWE-DTL-SIG-019	SWITCH HEATER JUNCTION BOX
JB-2083-2	2083+66	5.0' R	SWE-DTL-SIG-019	SWITCH HEATER JUNCTION BOX
JB-2083-3	2083+76	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2083-4	2083+76	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2083-5	2083+98	19.0' L	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2083-6	2083+98	5.0' R	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2083-7	2083+40	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
CSU-2079-1	2079+04	33.0' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2079-2	2079+04	19.0' R	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2080	2080+50	20.0' R	3/SWE-DTL-012	ELECTRICAL CABINET CONDUIT STUB UP
CSU-2082-2	2082+29	8.0' R	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP
CSU-2082-3	2082+94	25.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2082-4	2082+95	8.0' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2082-5	2082+24	24.5' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2082-6	2082+24	8.0' R		INTRUSION DETECTION CONDUIT STUB UP
BID-2081-1	2081+07	24.0' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2081-2	2081+07	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2081-3	2081+49	27.0' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2081-4	2081+49	14.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
SC-2081-1	SC-MH-2081	SC-MH-2081-1	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2081-2	SC-MH-2081	SC-MH-2081-2	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2079-1	CSU-2079-1	SC-MH-2081	3-4	STU-DTL-001	SC CONDUIT
SC-2079-2	CSU-2079-2	SC-MH-2081-2	3-4	STU-DTL-001	SC CONDUIT
SC-2081-3	SC-MH-2081	JB-2080-1	1-2	STU-DTL-001	SC CONDUIT
SC-2081-4	SC-MH-2081-2	SF-2081-2	1-2	STU-DTL-001	SC CONDUIT
SC-2081-5	SC-MH-2081-2	JB-2080-2	1-2	STU-DTL-001	SC CONDUIT
SC-2081-6	SC-MH-2081-2	PF-2081-2	1-4	STU-DTL-001	SC CONDUIT
SC-2081-7	SC-MH-2081	SF-2081-1	1-2	STU-DTL-001	SC CONDUIT
SC-2081-13	SC-HH-2082-1	JB-2082-1	1-3	STU-DTL-001	SC CONDUIT
SC-2081-14	SC-HH-2082-1	JB-2082-2	1-3	STU-DTL-001	SC CONDUIT
SC-2081-15	SC-MH-2081	JB-2081-3	1-2	STU-DTL-001	SC CONDUIT
SC-2081-16	SC-MH-2081-2	JB-2081-4	1-2	STU-DTL-001	SC CONDUIT
SC-2081-17	SC-MH-2081	JB-2081-5	1-2	STU-DTL-001	SC CONDUIT
SC-2081-18	SC-MH-2081-2	JB-2081-6	1-2	STU-DTL-001	SC CONDUIT
SC-2081-19	SC-MH-2081	JB-2081-7	1-2	STU-DTL-001	SC CONDUIT
SC-2081-20	SC-MH-2081-2	JB-2081-8	1-2	STU-DTL-001	SC CONDUIT
SC-2081-25	SC-MH-2081-1	CSU-2082-5	1-2	STU-DTL-001	SC CONDUIT
SC-2081-26	SC-MH-2081-1	CSU-2082-6	1-2	STU-DTL-001	SC CONDUIT
SC-2081-27	SC-HH-2082-2	JB-2082-5	1-2	STU-DTL-001	SC CONDUIT
SC-2081-28	SC-MH-2081	BID-2081-1	1-2	STU-DTL-001	SC CONDUIT
SC-2081-29	SC-MH-2081-2	BID-2081-2	1-2	STU-DTL-001	SC CONDUIT
SC-2081-30	SC-MH-2081	BID-2081-3	1-2	STU-DTL-001	SC CONDUIT
SC-2081-31	SC-MH-2081-2	BID-2081-4	1-2	STU-DTL-001	SC CONDUIT
SC-2081-32	SC-MH-2081	PF-2081-1	1-4	STU-DTL-001	SC CONDUIT
SC-2081-33	SC-MH-2081-3	JB-2078-1	1-2	STU-DTL-001	SC CONDUIT
SC-2081-34	SC-MH-2081-3	JB-2078-2	1-2	STU-DTL-001	SC CONDUIT
SC-2081-35	SC-HH-2082-1	JB-2082-6	1-2	STU-DTL-001	SC CONDUIT
SC-2081-36	SC-HH-2082-1	JB-2082-7	1-2	STU-DTL-001	SC CONDUIT
SC-2082-1	SC-HH-2083	JB-2083-3	1-3	STU-DTL-001	SC CONDUIT
SC-2082-2	SC-HH-2083	JB-2083-4	1-3	STU-DTL-001	SC CONDUIT
SC-2082-3	SC-HH-2083	JB-2083-5	1-2	STU-DTL-001	SC CONDUIT
SC-2082-4	SC-HH-2083	JB-2083-6	1-2	STU-DTL-001	SC CONDUIT
SC-2082-5	SC-HH-2083	JB-2083-7	1-2	STU-DTL-001	SC CONDUIT
SC-2082-6	SC-HH-2082-2	FDN-2082	1-3	STU-DTL-001	SC CONDUIT
ET-2081	SC-MH-2081	SC-HH-2082-1	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2082-1	SC-HH-2082-1	SC-HH-2082-2	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2082-2	SC-HH-2082-2	SC-HH-2083	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2083	SC-HH-2083	SC-HH-2088	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
TE-2081	TE-MH-2081	TE-MH-2082	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2082-1	FDN-2082	JB-2082-3	1-2	STU-DTL-002	TE CONDUIT
TE-2082-2	FDN-2082	JB-2082-4	1-2	STU-DTL-002	TE CONDUIT
TE-2082-3	FDN-2082	JB-2083-1	1-2	STU-DTL-002	TE CONDUIT
TE-2082-4	FDN-2082	JB-2083-2	1-2	STU-DTL-002	TE CONDUIT
TE-2082-5	TE-MH-2082	CSU-2082-3	2-4	STU-DTL-002	TE CONDUIT
TE-2082-6	TE-MH-2082	CSU-2082-4	2-4	STU-DTL-002	TE CONDUIT
TE-2082-7	FDN-2082	CSU-2082-2	1-4	STU-DTL-002	TE CONDUIT
LV-2081	JB-2081	CSU-2080	1-2	STU-DTL-001	LV CONDUIT
LV-2079-1	SC-HH-2081	CSU-2079-1	1-2	STU-DTL-001	LV CONDUIT
LV-2079-2	SC-HH-2081	CSU-2079-2	1-2	STU-DTL-001	LV CONDUIT

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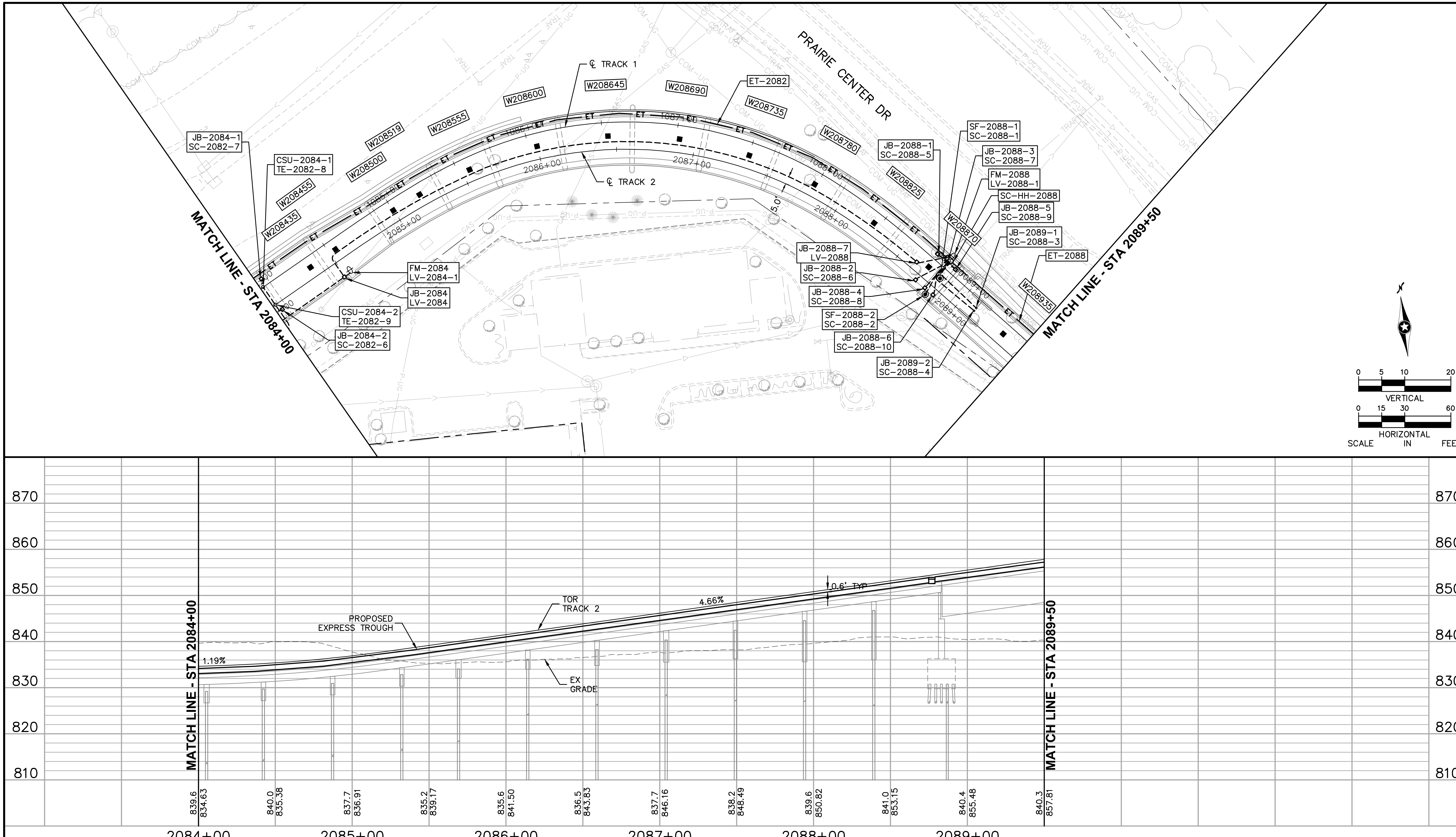
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2077+80 TO STA 2084+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-001



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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2084+00 TO STA 2089+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-002

SHEET 31 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2088	2088+77	20.0' L	SWE-DTL-003	SC MANHOLE
SF-2088-1	2088+80	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2088-2	2088+80	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2084	2084+49	10.5' R		LV JUNCTION BOX
JB-2084-1	2084+04	19.0' L	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2084-2	2084+04	5.0' R	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2088-1	2088+69	18.0' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2088-2	2088+69	4.0' R	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2088-3	2088+77	18.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2088-4	2088+77	4.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2088-5	2088+84	18.0' L	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2088-6	2088+84	4.0' R	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2088-7	2088+62	5.0' L		LV JUNCTION BOX
JB-2089-1	2089+11	8.2' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2089-2	2089+11	6.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
CSU-2084-1	2084+02	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2084-2	2084+02	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
FM-2084	2084+55	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP
FM-2088	2288+77	23.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2083	SC-HH-2083	SC-HH-2088	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2088	SC-HH-2088	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2082-7	SC-HH-2083	JB-2084-1	1-2	STU-DTL-001	SC CONDUIT
SC-2082-6	SC-HH-2083	JB-2084-2	1-2	STU-DTL-001	SC CONDUIT
SC-2088-1	SC-HH-2088	SF-2088-1	1-2	STU-DTL-001	SC CONDUIT
SC-2088-2	SC-HH-2088	SF-2088-2	1-2	STU-DTL-001	SC CONDUIT
SC-2088-3	SC-HH-2088	JB-2089-1	1-2	STU-DTL-001	SC CONDUIT
SC-2088-4	SC-HH-2088	JB-2089-2	1-2	STU-DTL-001	SC CONDUIT
SC-2088-5	SC-HH-2088	JB-2088-1	1-2	STU-DTL-001	SC CONDUIT
SC-2088-6	SC-HH-2088	JB-2088-2	1-2	STU-DTL-001	SC CONDUIT
SC-2088-7	SC-HH-2088	JB-2088-3	1-2	STU-DTL-001	SC CONDUIT
SC-2088-8	SC-HH-2088	JB-2088-4	1-2	STU-DTL-001	SC CONDUIT
SC-2088-9	SC-HH-2088	JB-2088-5	1-2	STU-DTL-001	SC CONDUIT
SC-2088-10	SC-HH-2088	JB-2088-6	1-2	STU-DTL-001	SC CONDUIT
TE-2082-8	TE-MH-2082	CSU-2084-1	1-5	STU-DTL-002	TE CONDUIT
TE-2082-9	TE-MH-2082	CSU-2084-2	1-5	STU-DTL-002	TE CONDUIT
LV-2084	CSU-2079-3	JB-2084	1-2	STU-DTL-001	LV CONDUIT
LV-2084-1	JB-2084	JB-2081	1-2	STU-DTL-001	LV CONDUIT
LV-2088	JB-2084	JB-2088-7	1-2	STU-DTL-001	LV CONDUIT
LV-2088-1	JB-2088-7	FM-2088	1-2	STU-DTL-001	LV CONDUIT

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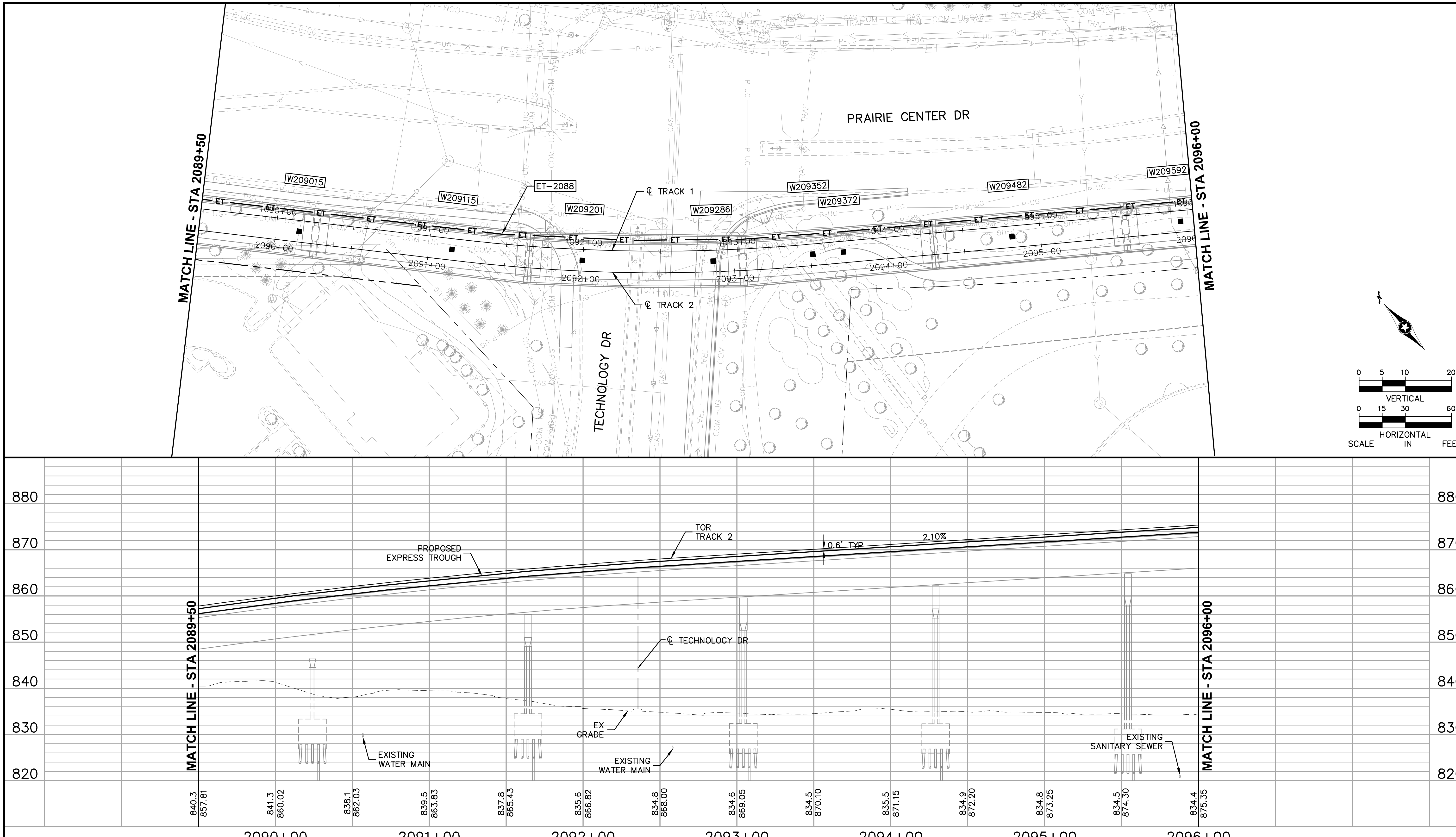
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2084+00 TO STA 2089+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-002



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2089+50 TO STA 2096+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-003

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2088	SC-MH-2088	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2089+50 TO STA 2096+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-003

SHEET 34 OF 464

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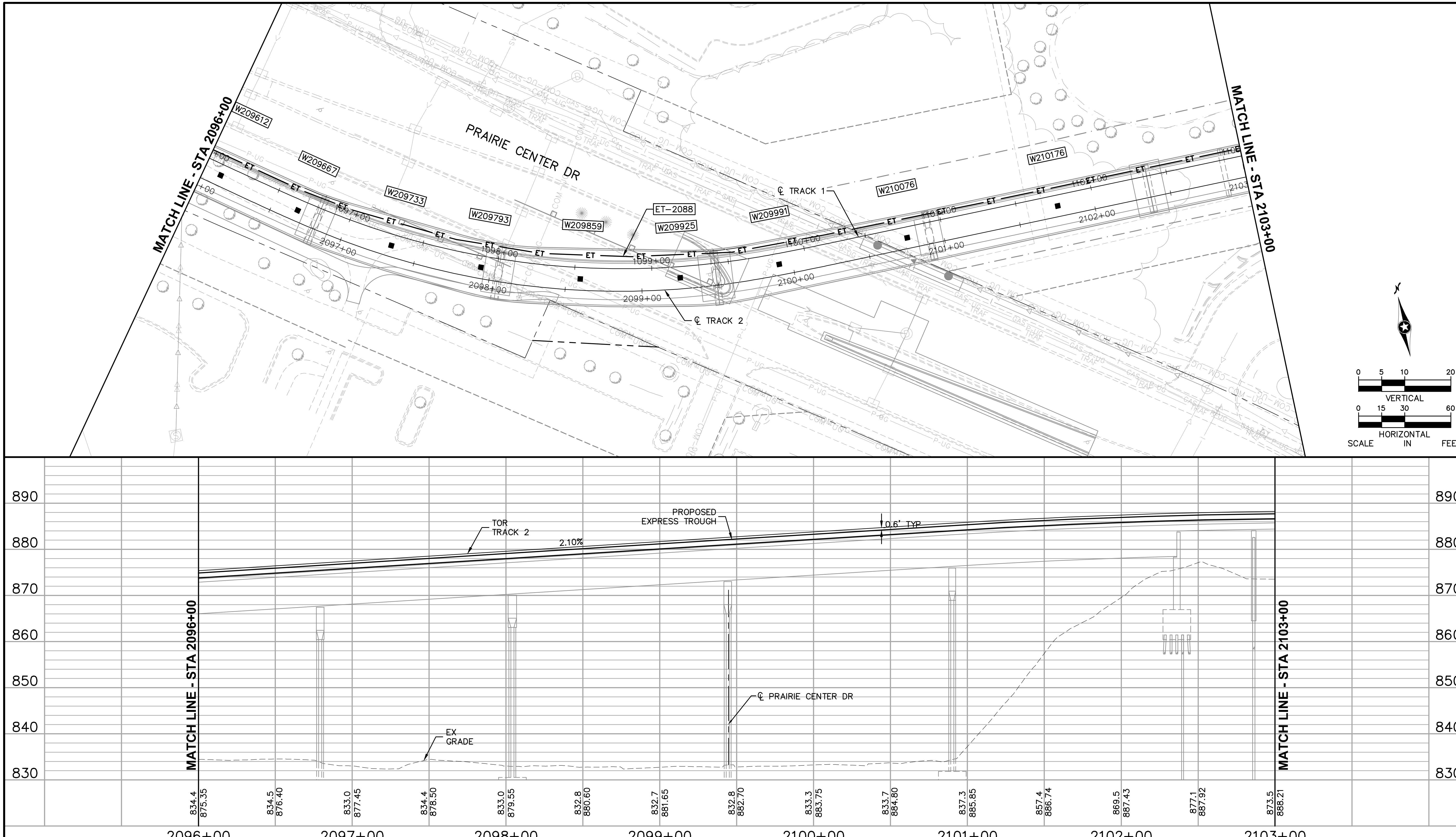

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2096+00 TO STA 2103+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-004

SHEET 35 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2088	SC-MH-2088	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

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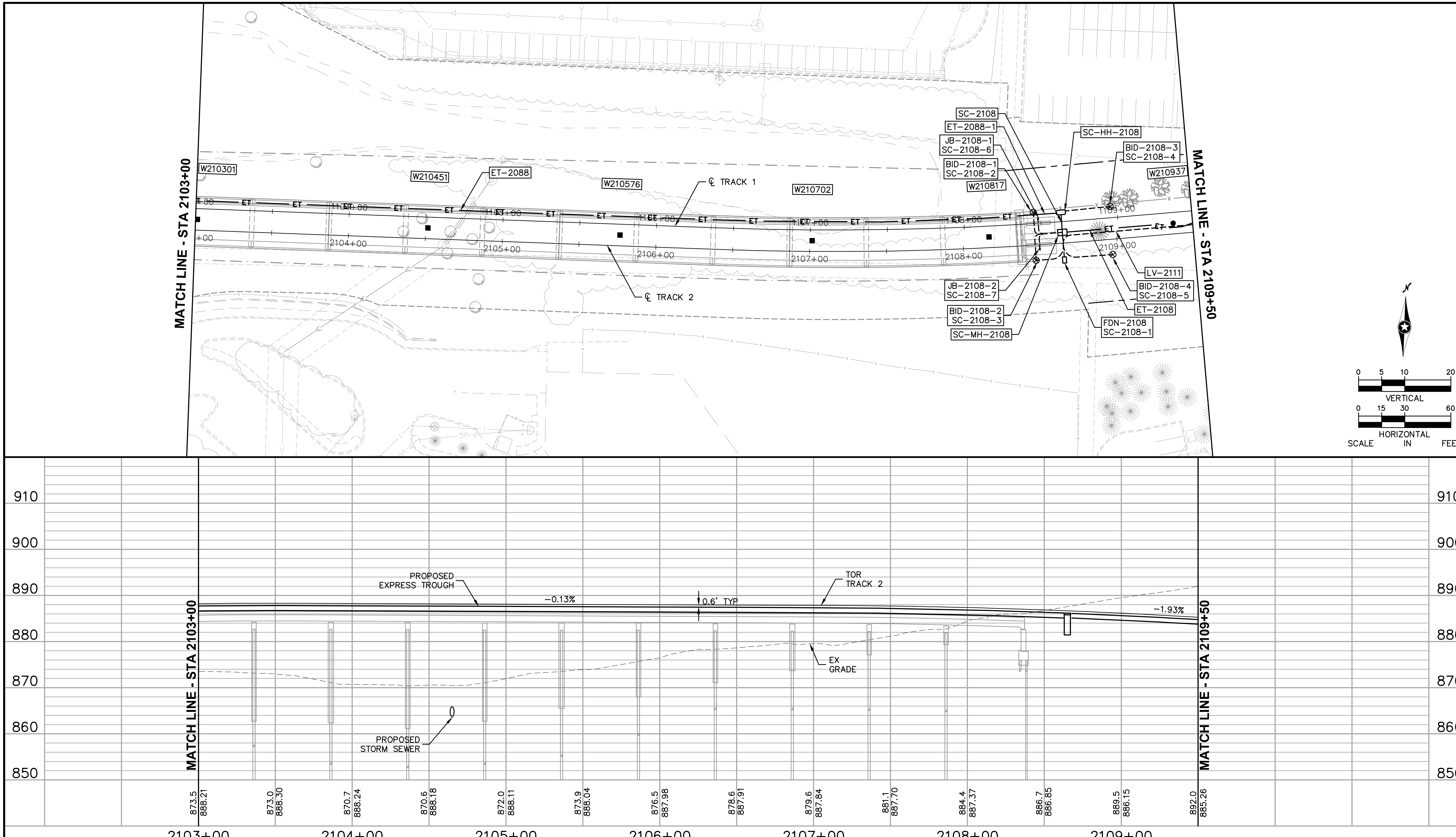
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2096+00 TO STA 2103+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-004



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2103+00 TO STA 2109+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-005

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2108	2108+65	20.0' L	SWE-DTL-005	SC HANDHOLE
SC-MH-2108	2108+65	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2108	2108+65	11.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
BID-2108-1	2108+47	21.5' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2108-2	2108+47	10.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2108-3	2108+97	21.5' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2108-4	2108+97	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
JB-2108-1	2108+50	17.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2108-2	2108+50	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2088	SC-MH-2088	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2088-1	EAST BRIDGE ABUTMENT	SC-MH-2108	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2108	SC-MH-2108	SC-MH-2112	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2108	SC-MH-2108	SC-HH-2108	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2108-1	SC-MH-2108	FDN-2108	4-2	STU-DTL-001	SC CONDUIT
SC-2108-2	SC-MH-2108	BID-2108-1	1-2	STU-DTL-001	SC CONDUIT
SC-2108-3	SC-MH-2108	BID-2108-2	1-2	STU-DTL-001	SC CONDUIT
SC-2108-4	SC-HH-2108	BID-2108-3	1-2	STU-DTL-001	SC CONDUIT
SC-2108-5	SC-MH-2108	BID-2108-4	1-2	STU-DTL-001	SC CONDUIT
SC-2108-6	SC-MH-2108	JB-2108-1	1-2	STU-DTL-001	SC CONDUIT
SC-2108-7	SC-MH-2108	JB-2108-2	1-2	STU-DTL-001	SC CONDUIT
LV-2111	SC-MH-2111	FDN-2108	1-2	STU-DTL-001	LV CONDUIT

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2103+00 TO STA 2109+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-005

SHEET 38 OF 464

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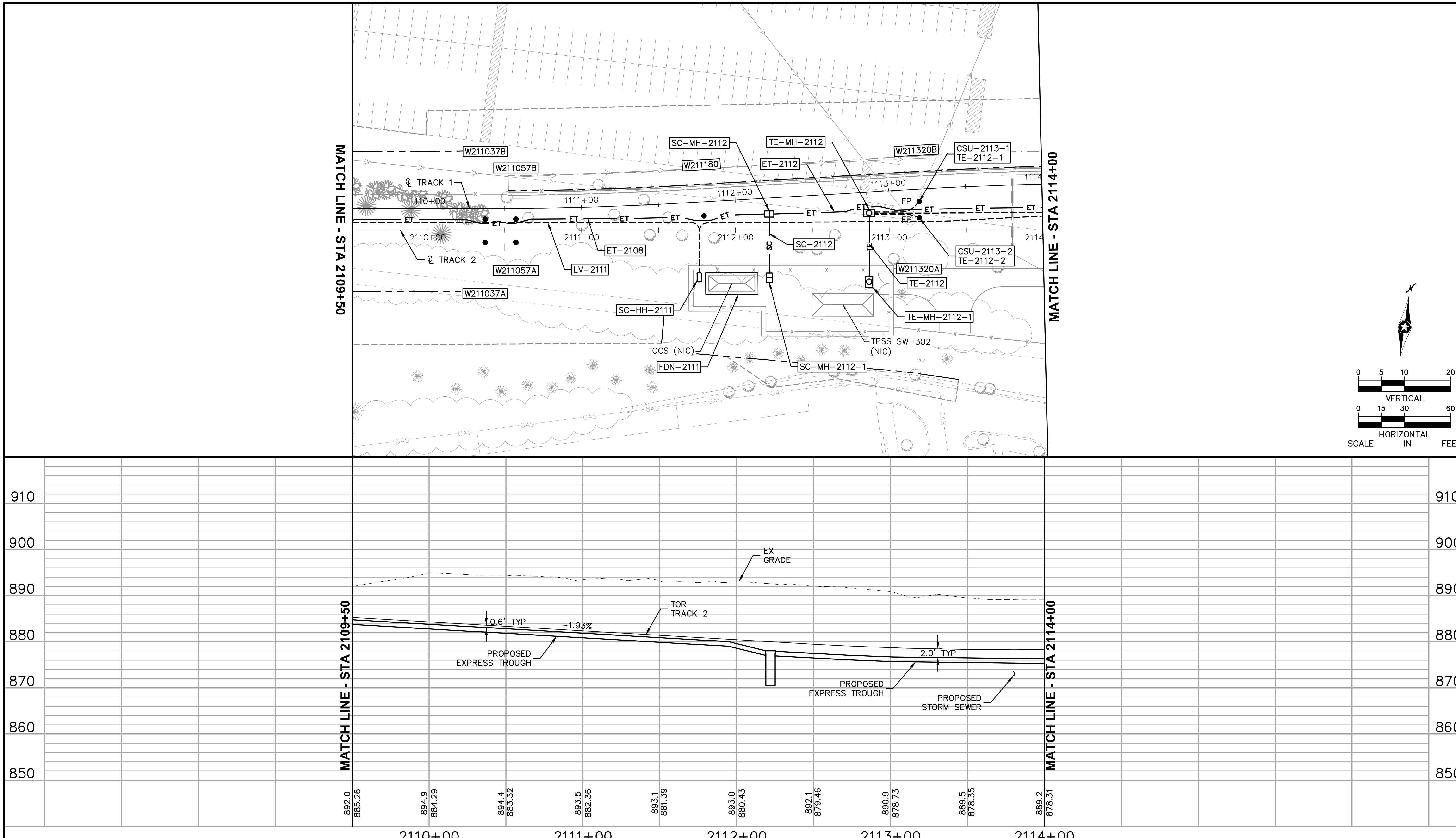

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2109+50 TO STA 2114+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-006

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2111	2111+77	31.0' R	SWE-DTL-005	SC HANDHOLE
SC-MH-2112	2112+22	10.4' L	SWE-DTL-003	SC MANHOLE
SC-MH-2112-1	2112+22	30.0' R	SWE-DTL-003	SC MANHOLE
TE-MH-2112	2112+87	11.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2112-1	2112+87	36.0' R	SWE-DTL-002	TE MANHOLE
FDN-2111	2111+98	34.8' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
CSU-2113-1	2112+20	19.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2113-2	2112+20	8.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2108	SC-MH-2108	SC-MH-2112	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2112	SC-MH-2112	SC-MH-2114	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2112	SC-MH-2112-1	SC-MH-2112	16-4	16/STU-DTL-001	SC DUCTBANK
TE-2112	TE-MH-2112	TE-MH-2112-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2112-1	TE-MH-2112	CSU-2113-1	2-4	STU-DTL-002	TE CONDUIT
TE-2112-2	TE-MH-2112	CSU-2113-2	2-4	STU-DTL-002	TE CONDUIT
LV-2111	SC-HH-2111	FDN-2108	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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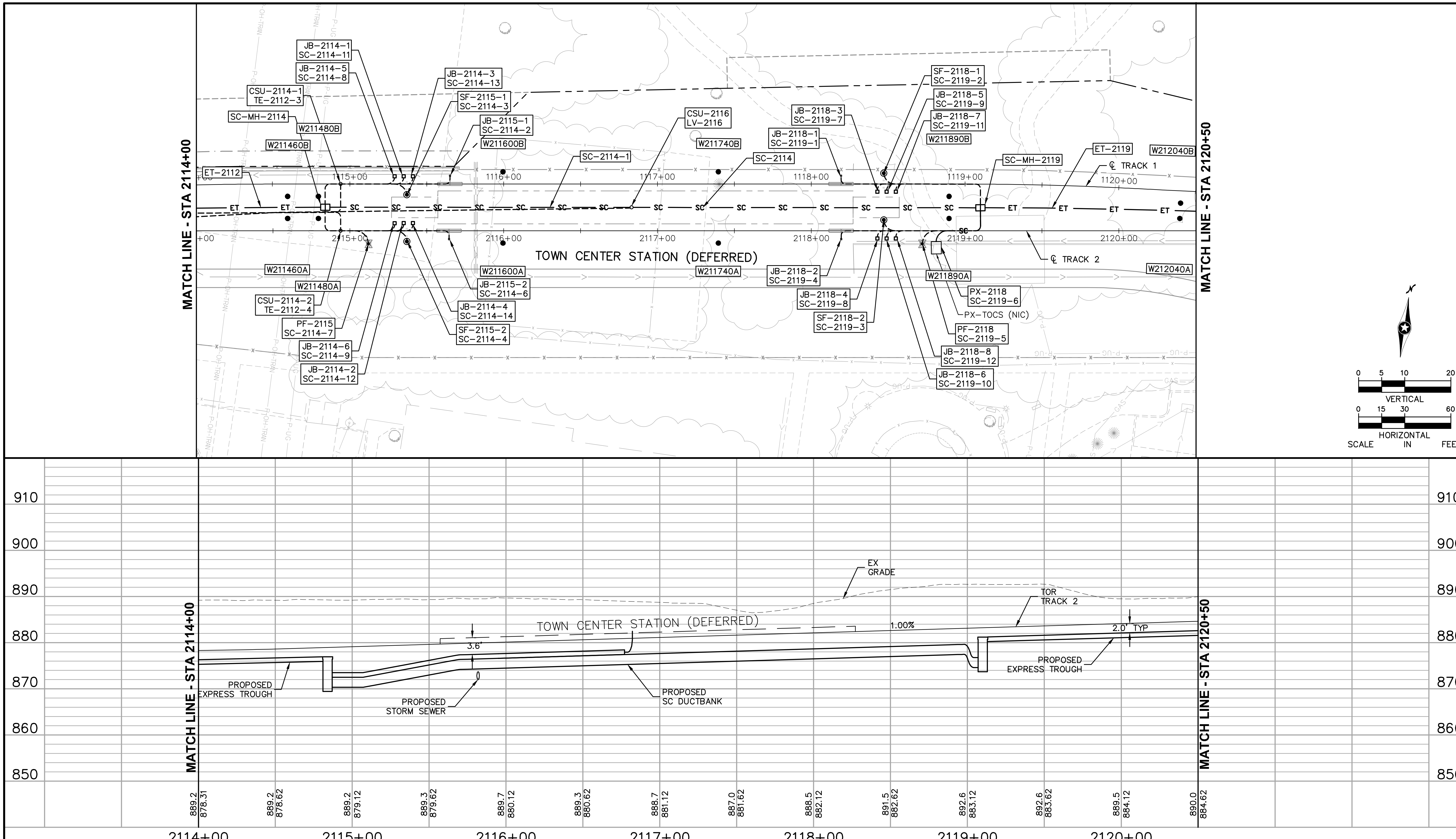
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2109+50 TO STA 2114+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-006



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2114+00 TO STA 2120+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-007

SHEET 41 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2114	2114+84	15.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2119	2119+10	15.0' L	SWE-DTL-003	SC MANHOLE
SF-2115-1	2112+37	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2115-2	2115+37	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2118-1	2118+47	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2118-2	2118+47	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2114-1	2115+35	35.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2114-2	2115+35	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2114-3	2115+41	35.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2114-4	2115+41	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2114-5	2115+29	35.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2114-6	2115+29	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2115-1	2115+65	33.4' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2115-2	2115+65	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2118-1	2118+19	33.4' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2118-2	2118+19	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2118-3	2118+43	25.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2118-4	2118+43	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2118-5	2118+49	25.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2118-6	2118+49	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2118-7	2118+55	25.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2118-8	2118+55	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2114-1	2114+94	30.4' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2114-2	2114+94	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2116	2116+83	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
PF-2115	2115+12	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2118	2118+72	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PX-2118	2118+81	11.1' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2112	SC-MH-2112	SC-MH-2114	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2119	SC-MH-2119	SC-MH-2121	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2114	SC-MH-2114	SC-MH-2119	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2114-1	SC-MH-2114	CSU-2116	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2119-6	SC-MH-2119	PX-2118	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2114-2	SC-MH-2114	JB-2115-1	1-2	STU-DTL-001	SC CONDUIT
SC-2114-3	SC-MH-2114	SF-2115-1	1-2	STU-DTL-001	SC CONDUIT
SC-2114-4	SC-MH-2114	SF-2115-2	1-2	STU-DTL-001	SC CONDUIT
SC-2114-6	SC-MH-2114	JB-2115-2	1-2	STU-DTL-001	SC CONDUIT
SC-2114-7	SC-MH-2114	PF-2115	1-4	STU-DTL-001	SC CONDUIT
SC-2114-8	SC-MH-2114	JB-2114-5	1-2	STU-DTL-001	SC CONDUIT
SC-2114-9	SC-MH-2114	JB-2114-6	1-2	STU-DTL-001	SC CONDUIT
SC-2114-11	SC-MH-2114	JB-2114-1	1-2	STU-DTL-001	SC CONDUIT
SC-2114-12	SC-MH-2114	JB-2114-2	1-2	STU-DTL-001	SC CONDUIT
SC-2114-13	SC-MH-2114	JB-2114-3	1-2	STU-DTL-001	SC CONDUIT
SC-2114-14	SC-MH-2114	JB-2114-4	1-2	STU-DTL-001	SC CONDUIT
SC-2119-1	SC-MH-2119	JB-2118-1	1-2	STU-DTL-001	SC CONDUIT
SC-2119-2	SC-MH-2119	SF-2118-1	1-2	STU-DTL-001	SC CONDUIT
SC-2119-3	SC-MH-2119	SF-2118-2	1-2	STU-DTL-001	SC CONDUIT
SC-2119-4	SC-MH-2119	JB-2118-2	1-2	STU-DTL-001	SC CONDUIT
SC-2119-5	SC-MH-2119	PF-2118	1-4	STU-DTL-001	SC CONDUIT
SC-2119-7	SC-MH-2119	JB-2118-3	1-2	STU-DTL-001	SC CONDUIT
SC-2119-8	SC-MH-2119	JB-2118-4	1-2	STU-DTL-001	SC CONDUIT
SC-2119-9	SC-MH-2119	JB-2118-5	1-2	STU-DTL-001	SC CONDUIT
SC-2119-10	SC-MH-2119	JB-2118-6	1-2	STU-DTL-001	SC CONDUIT
SC-2119-11	SC-MH-2119	JB-2118-7	1-2	STU-DTL-001	SC CONDUIT
SC-2119-12	SC-MH-2119	JB-2118-8	1-2	STU-DTL-001	SC CONDUIT
TE-2112-3	TE-MH-2112	CSU-2114-1	1-5	STU-DTL-002	TE CONDUIT
TE-2112-4	TE-MH-2112	CSU-2114-2	1-5	STU-DTL-002	TE CONDUIT
LV-2116	SC-HH-2111	CSU-2116	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

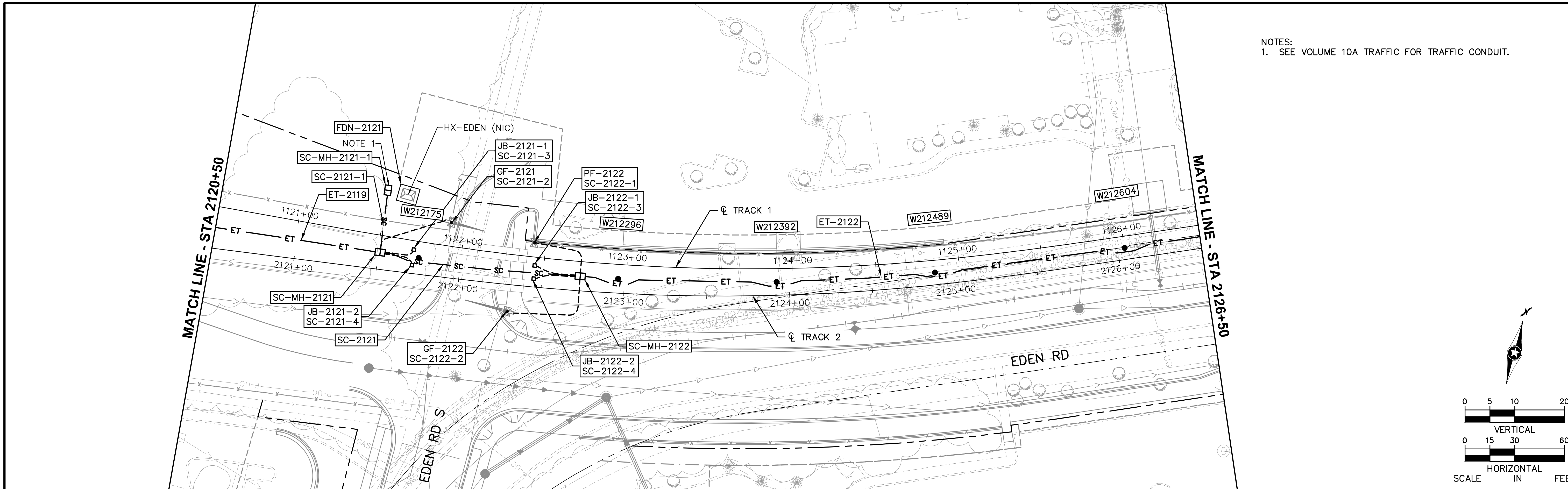
SOUTHWEST Green Line LRT Extension

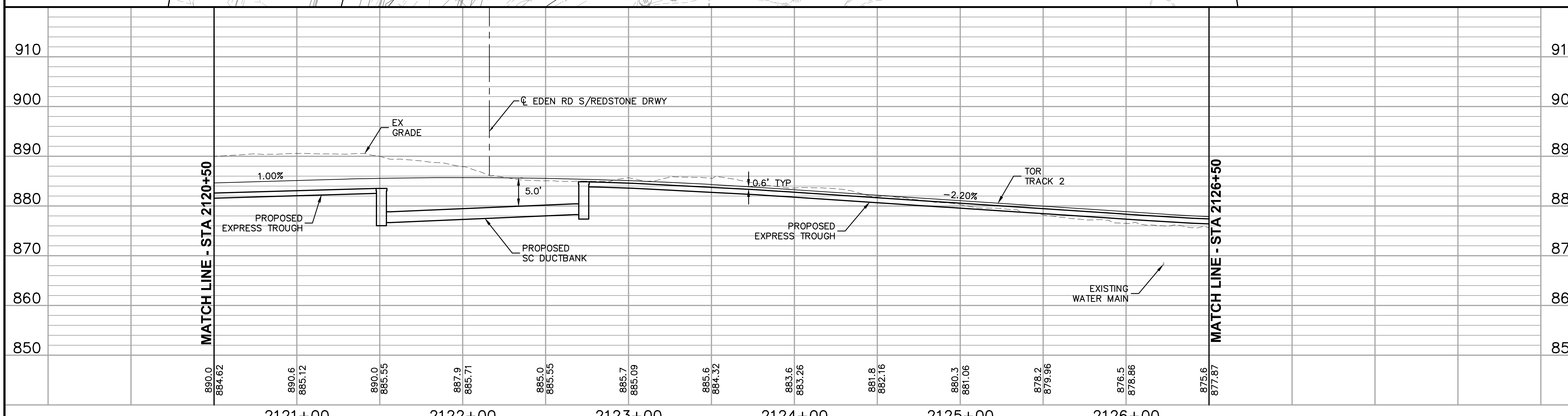
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2114+00 TO STA 2120+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-007

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2120+50 TO STA 2126+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-008

SHEET 43 OF 464

Jan, 18 2016 08:10 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W1-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2121	2121+51	10.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2121-1	2121+51	40.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2122	2122+73	8.8' L	SWE-DTL-003	SC MANHOLE
FDN-2121	2121+64	46.9' L	SWE-DTL-SIG-015	GRADE CROSSING HOUSE FOUNDATION
GF-2121	2121+92	33.4' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2122	2122+31	16.1' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2122	2122+43	26.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2121-1	2121+71	13.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2121-2	2121+71	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2122-1	2122+45	13.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2122-2	2122+45	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2119	SC-MH-2119	SC-MH-2121	TYPE I	SWE-DTL-010	EXPRESS TROUGH
ET-2122	SC-MH-2122	SC-MH-2135	TYPE I	SWE-DTL-010	EXPRESS TROUGH
SC-2121	SC-MH-2121	SC-MH-2122	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2121-1	SC-MH-2121	SC-MH-2121-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2121-2	SC-MH-2121	GF-2121	1-4	STU-DTL-001	SC CONDUIT
SC-2121-3	SC-MH-2121	JB-2121-1	1-2	STU-DTL-001	SC CONDUIT
SC-2121-4	SC-MH-2121	JB-2121-2	1-2	STU-DTL-001	SC CONDUIT
SC-2122-1	SC-MH-2122	PF-2122	1-4	STU-DTL-001	SC CONDUIT
SC-2122-2	SC-MH-2122	GF-2122	1-4	STU-DTL-001	SC CONDUIT
SC-2122-3	SC-MH-2122	JB-2122-1	1-2	STU-DTL-001	SC CONDUIT
SC-2122-4	SC-MH-2122	JB-2122-2	1-2	STU-DTL-001	SC CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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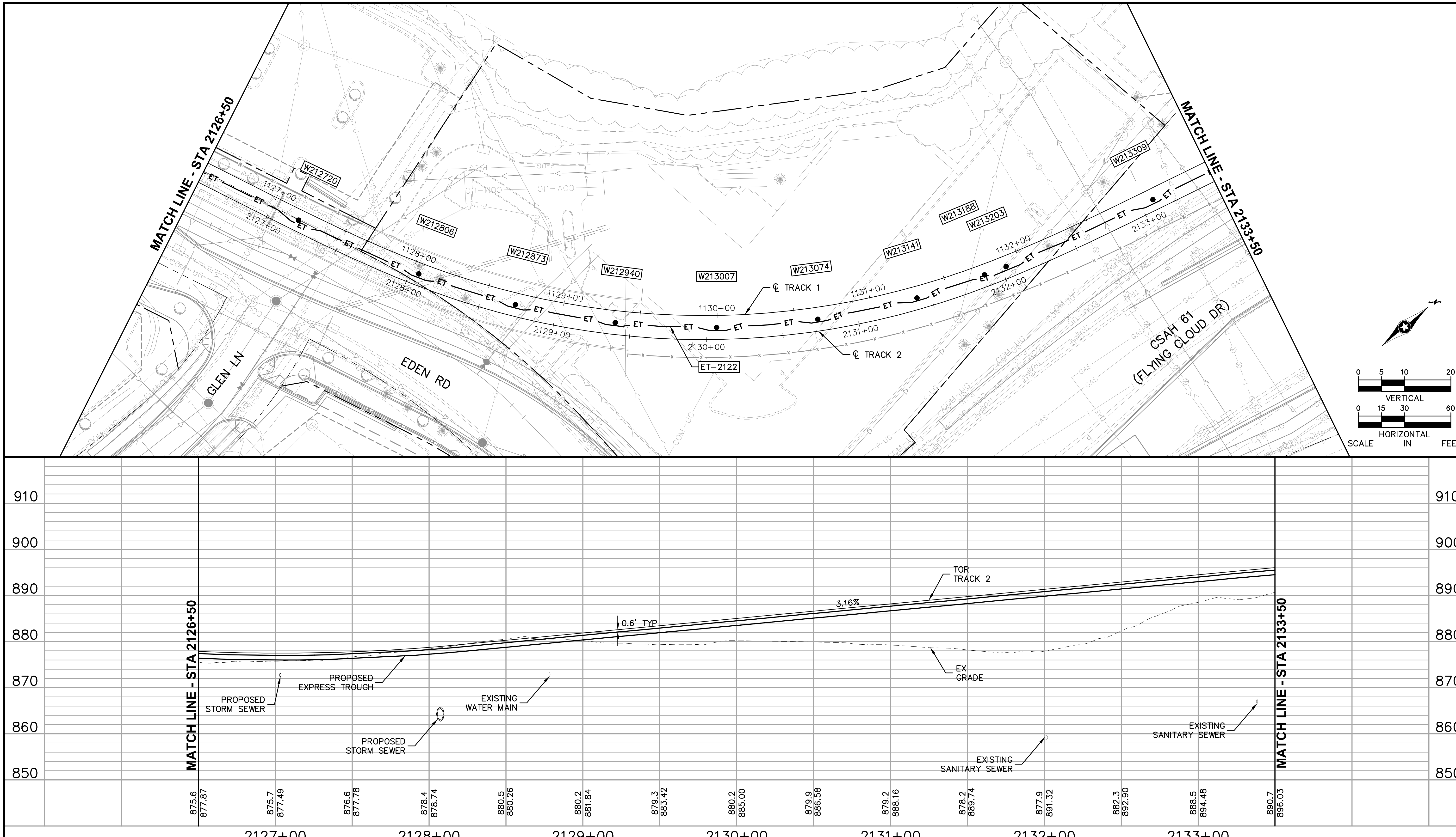
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2120+50 TO STA 2126+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-008



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2126+50 TO STA 2133+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-009

SHEET 45 OF 464

Jan, 18 2016 08:11 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W1-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2122	SC-MH-2122	SC-MH-2135	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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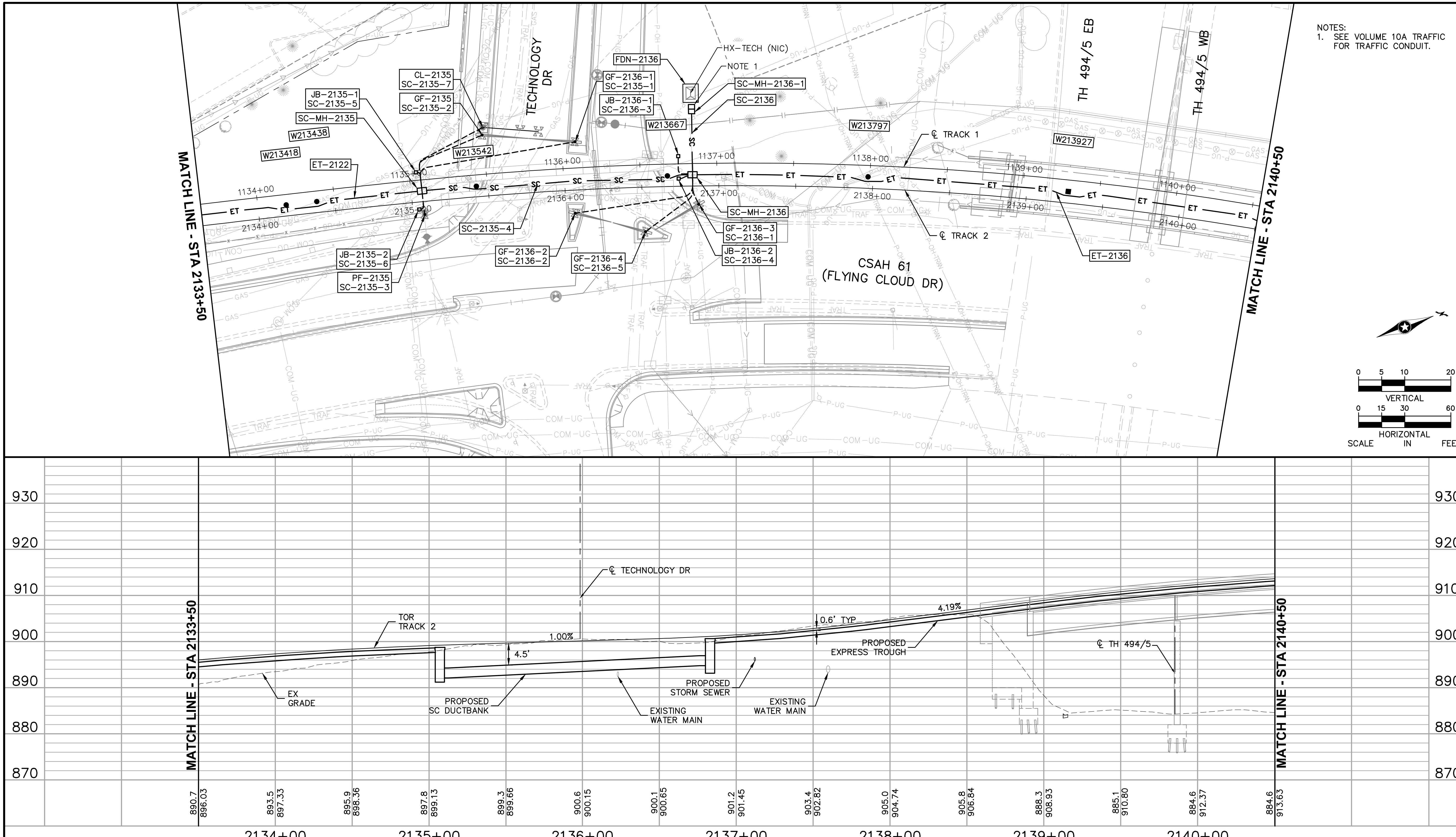
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2126+50 TO STA 2133+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-009



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2133+50 TO STA 2140+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-010

SHEET 47 OF 464

Jan, 18 2016 10:08 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W1-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2135	2135+17	7.1' L	SWE-DTL-003	SC MANHOLE
SC-MH-2136	2136+83	7.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2136-1	2136+83	50.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
FDN-2136	2136+83	60.4' L	SWE-DTL-SIG-015	GRADE CROSSING HOUSE FOUNDATION
GF-2135	2135+50	39.7' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2136-1	2136+08	31.4' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2136-2	2136+41	28.2' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2136-3	2136+86	12.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2136-4	2136+51	29.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
CL-2135	2135+50	44.6' L	SWE-DTL-SIG-006	LRT CANTILEVER FOUNDATION AND STUB UP
PF-2135	2315+07	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2135-1	2135+04	19.5' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2135-2	2135+04	5.0' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2136-1	2136+74	19.5' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2136-2	2136+74	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2122	SC-MH-2122	SC-MH-2135	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2136	SC-MH-2136	SC-MH-2149	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2135-4	SC-MH-2135	SC-MH-2136	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2136	SC-MH-2136	SC-MH-2136-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2135-1	SC-MH-2135	GF-2136-1	1-4	STU-DTL-001	SC CONDUIT
SC-2135-2	SC-MH-2135	GF-2135	1-4	STU-DTL-001	SC CONDUIT
SC-2135-3	SC-MH-2135	PF-2135	1-4	STU-DTL-001	SC CONDUIT
SC-2135-5	SC-MH-2135	JB-2135-1	1-2	STU-DTL-001	SC CONDUIT
SC-2135-6	SC-MH-2135	JB-2135-2	1-2	STU-DTL-001	SC CONDUIT
SC-2135-7	SC-MH-2135	CL-2135	1-4	STU-DTL-001	SC CONDUIT
SC-2136-1	SC-MH-2136	GF-2136-3	1-4	STU-DTL-001	SC CONDUIT
SC-2136-2	SC-MH-2136	GF-2136-2	1-4	STU-DTL-001	SC CONDUIT
SC-2136-3	SC-MH-2136	JB-2136-1	1-2	STU-DTL-001	SC CONDUIT
SC-2136-4	SC-MH-2136	JB-2136-2	1-2	STU-DTL-001	SC CONDUIT
SC-2136-5	SC-MH-2136	JB-2136-4	1-4	STU-DTL-001	SC CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

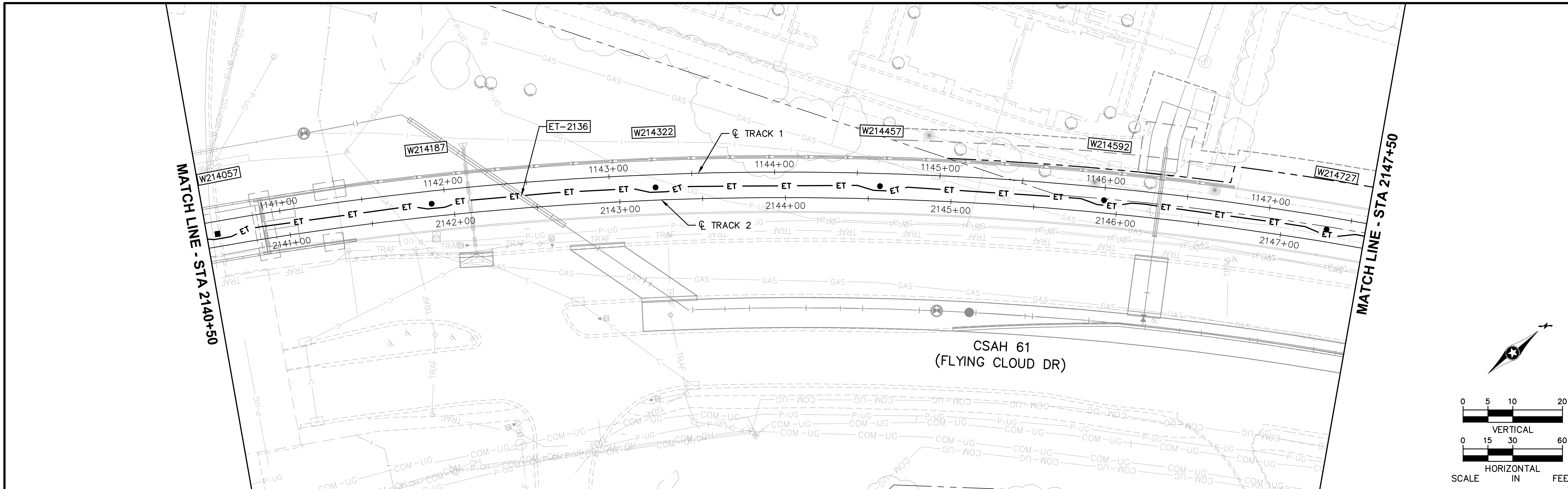
METROPOLITAN COUNCIL

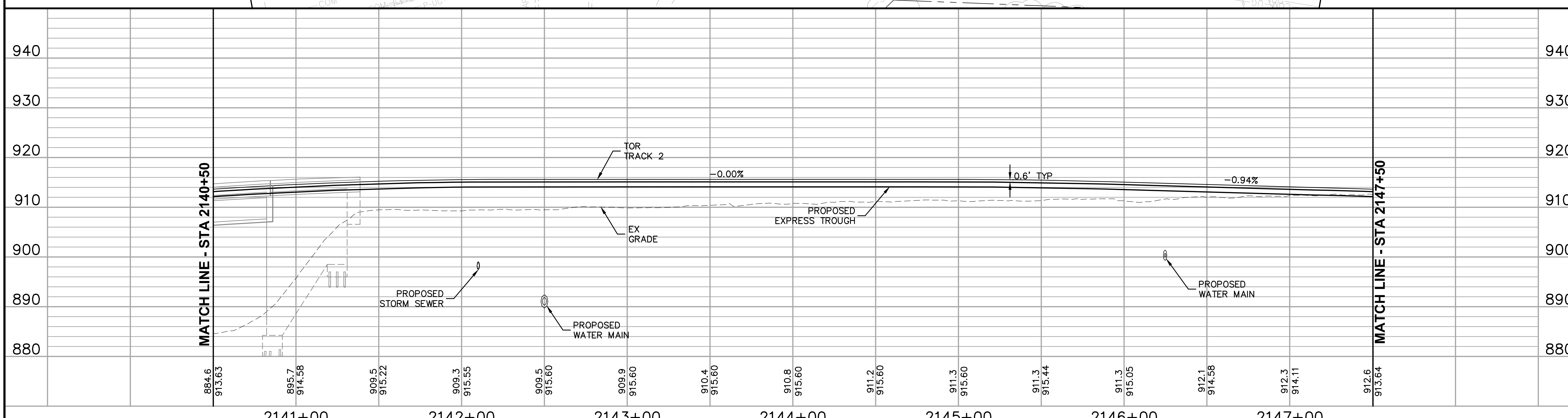
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2133+50 TO STA 2140+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-010





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2140+50 TO STA 2147+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-011

SHEET 49 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2136	SC-MH-2136	SC-MH-2149	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

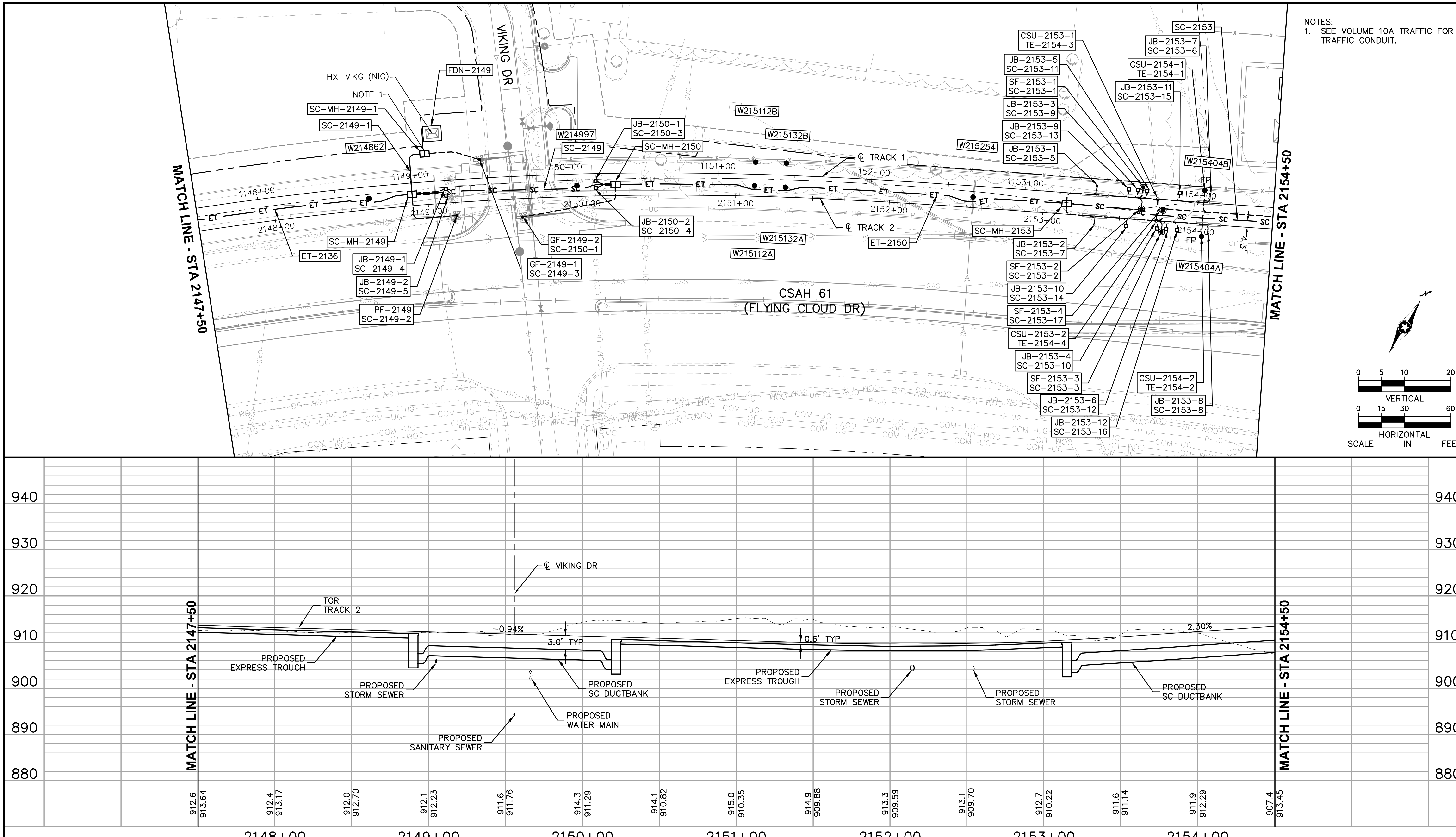
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2140+50 TO STA 2147+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-011

SHEET 50 OF 464



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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL PLAN AND PROFILE STA 2147+50 TO STA 2154+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-012

SHEET 51 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2149	2149+00	8.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2149-1	2149+00	33.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2150	2150+22	7.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2153	2153+15	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2149	2149+06	45.8' R	SWE-DTL-SIG-015	GRADE CROSSING HOUSE FOUNDATION
GF-2149-1	2149+35	26.7' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2149-2	2149+61	12.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2149	2149+18	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2153-1	2153+71	20.3' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2153-2	2153+71	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2153-3	2153+71	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2153-4	2153+78	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2149-1	2149+12	9.5' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2149-2	2149+12	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2150-1	2150+09	9.5' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2150-2	2150+09	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2153-1	2153+40	19.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2153-2	2153+40	6.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2153-3	2153+68	19.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2153-4	2153+68	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2153-5	2153+74	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2153-6	2153+74	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2153-7	2153+99	19.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2153-8	2153+99	7.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2153-9	2153+58	19.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2153-10	2153+58	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2153-11	2153+84	19.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2153-12	2153+84	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2153-1	2153+74	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2153-2	2153+74	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2154-1	2154+04	22.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2154-2	2154+04	8.3' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2136	SC-MH-2136	SC-MH-2149	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2150	SC-MH-2150	SC-MH-2153	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2149	SC-MH-2149	SC-MH-2150	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2153	SC-MH-2153	SC-HH-2154	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2149-1	SC-MH-2149	SC-MH-2149-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2149-2	SC-MH-2149	PF-2149	1-4	STU-DTL-001	SC CONDUIT
SC-2149-3	SC-MH-2149	GF-2149-1	1-4	STU-DTL-001	SC CONDUIT
SC-2149-4	SC-MH-2149	JB-2149-1	1-2	STU-DTL-001	SC CONDUIT
SC-2149-5	SC-MH-2149	JB-2149-2	1-2	STU-DTL-001	SC CONDUIT
SC-2150-1	SC-MH-2150	GF-2149-2	1-4	STU-DTL-001	SC CONDUIT
SC-2150-3	SC-MH-2150	JB-2150-1	1-2	STU-DTL-001	SC CONDUIT
SC-2150-4	SC-MH-2150	JB-2150-2	1-2	STU-DTL-001	SC CONDUIT
SC-2153-1	SC-MH-2153	SF-2153-1	1-2	STU-DTL-001	SC CONDUIT
SC-2153-2	SC-MH-2153	SF-2153-2	1-2	STU-DTL-001	SC CONDUIT
SC-2153-3	SC-MH-2153	SF-2153-3	1-2	STU-DTL-001	SC CONDUIT
SC-2153-5	SC-MH-2153	JB-2153-1	1-2	STU-DTL-001	SC CONDUIT
SC-2153-6	SC-MH-2153	JB-2153-7	1-2	STU-DTL-001	SC CONDUIT
SC-2153-7	SC-MH-2153	JB-2153-2	1-2	STU-DTL-001	SC CONDUIT
SC-2153-8	SC-MH-2153	JB-2153-8	1-2	STU-DTL-001	SC CONDUIT
SC-2153-9	SC-MH-2153	JB-2153-3	1-2	STU-DTL-001	SC CONDUIT
SC-2153-10	SC-MH-2153	JB-2153-4	1-2	STU-DTL-001	SC CONDUIT
SC-2153-11	SC-MH-2153	JB-2153-5	1-2	STU-DTL-001	SC CONDUIT
SC-2153-12	SC-MH-2153	JB-2153-6	1-2	STU-DTL-001	SC CONDUIT
SC-2153-13	SC-MH-2153	JB-2153-9	1-2	STU-DTL-001	SC CONDUIT
SC-2153-14	SC-MH-2153	JB-2153-10	1-2	STU-DTL-001	SC CONDUIT
SC-2153-15	SC-MH-2153	JB-2153-11	1-2	STU-DTL-001	SC CONDUIT
SC-2153-16	SC-MH-2153	JB-2153-12	1-2	STU-DTL-001	SC CONDUIT
SC-2153-17	SC-MH-2153	SF-2153-4	1-2	STU-DTL-001	SC CONDUIT
TE-2154-1	TE-MH-2154	CSU-2154-1	2-4	STU-DTL-002	TE CONDUIT
TE-2154-2	TE-MH-2154	CSU-2154-2	2-4	STU-DTL-002	TE CONDUIT
TE-2154-3	TE-MH-2154	CSU-2153-1	1-5	STU-DTL-002	TE CONDUIT
TE-2154-4	TE-MH-2154	CSU-2153-2	1-5	STU-DTL-002	TE CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

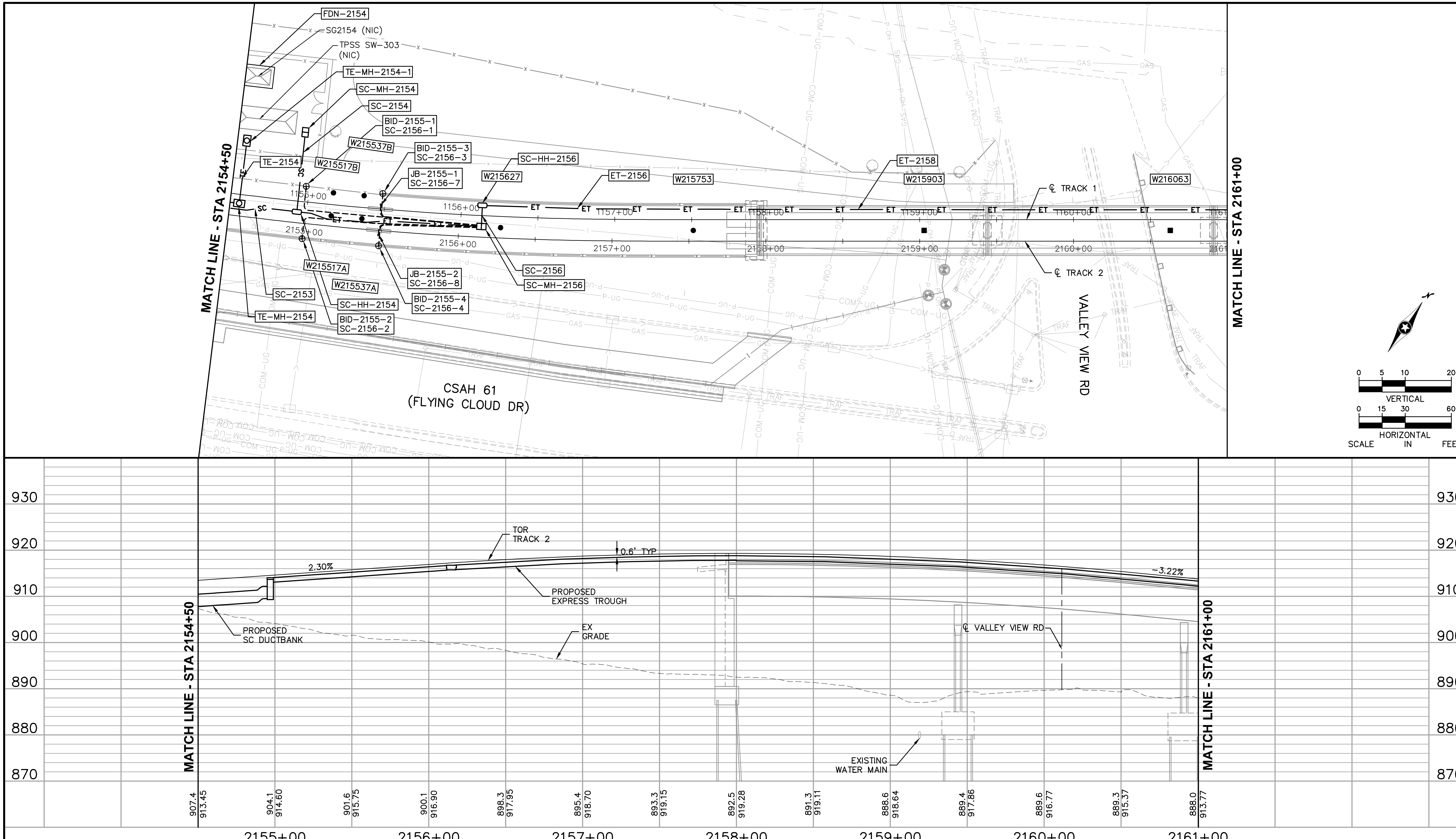
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2147+50 TO STA 2154+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-012



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2154+50 TO STA 2161+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-013

SHEET 53 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2154	2154+94	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2156	2156+15	21.0' L	SWE-DTL-005	SC HANDHOLE
SC-MH-2154	2154+94	59.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2156	2156+15	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2154	2154+58	91.7' L	SWE-DTL-SIG-012	SC HOUSE FOUNDATION
BID-2155-1	2155+00	24.0' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2155-2	2155+00	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2155-3	2155+49	24.0' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2155-4	2155+49	10.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
TE-MH-2154	2154+56	8.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2154-1	2154+56	48.0' L	SWE-DTL-002	TE MANHOLE
JB-2155-1	2155+48	17.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2155-2	2155+48	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2156	SC-HH-2156	WEST BRIDGE ABUTMENT	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2158	WEST BRIDGE ABUTMENT	SC-HH-2168	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2153	SC-MH-2153	SC-HH-2154	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2154	SC-MH-2154	SC-HH-2154	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2156	SC-MH-2156	SC-HH-2156	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2156-1	SC-MH-2156	BID-2155-1	1-2	STU-DTL-001	SC CONDUIT
SC-2156-2	SC-MH-2156	BID-2155-2	1-2	STU-DTL-001	SC CONDUIT
SC-2156-3	SC-MH-2156	BID-2155-3	1-2	STU-DTL-001	SC CONDUIT
SC-2156-4	SC-MH-2156	BID-2155-4	1-2	STU-DTL-001	SC CONDUIT
SC-2156-7	SC-MH-2156	JB-2155-1	1-2	STU-DTL-001	SC CONDUIT
SC-2156-8	SC-MH-2156	JB-2155-2	1-2	STU-DTL-001	SC CONDUIT
TE-2154	TE-MH-2154	TE-MH-2154-1	10-5	10/STU-DTL-002	TE DUCTBANK

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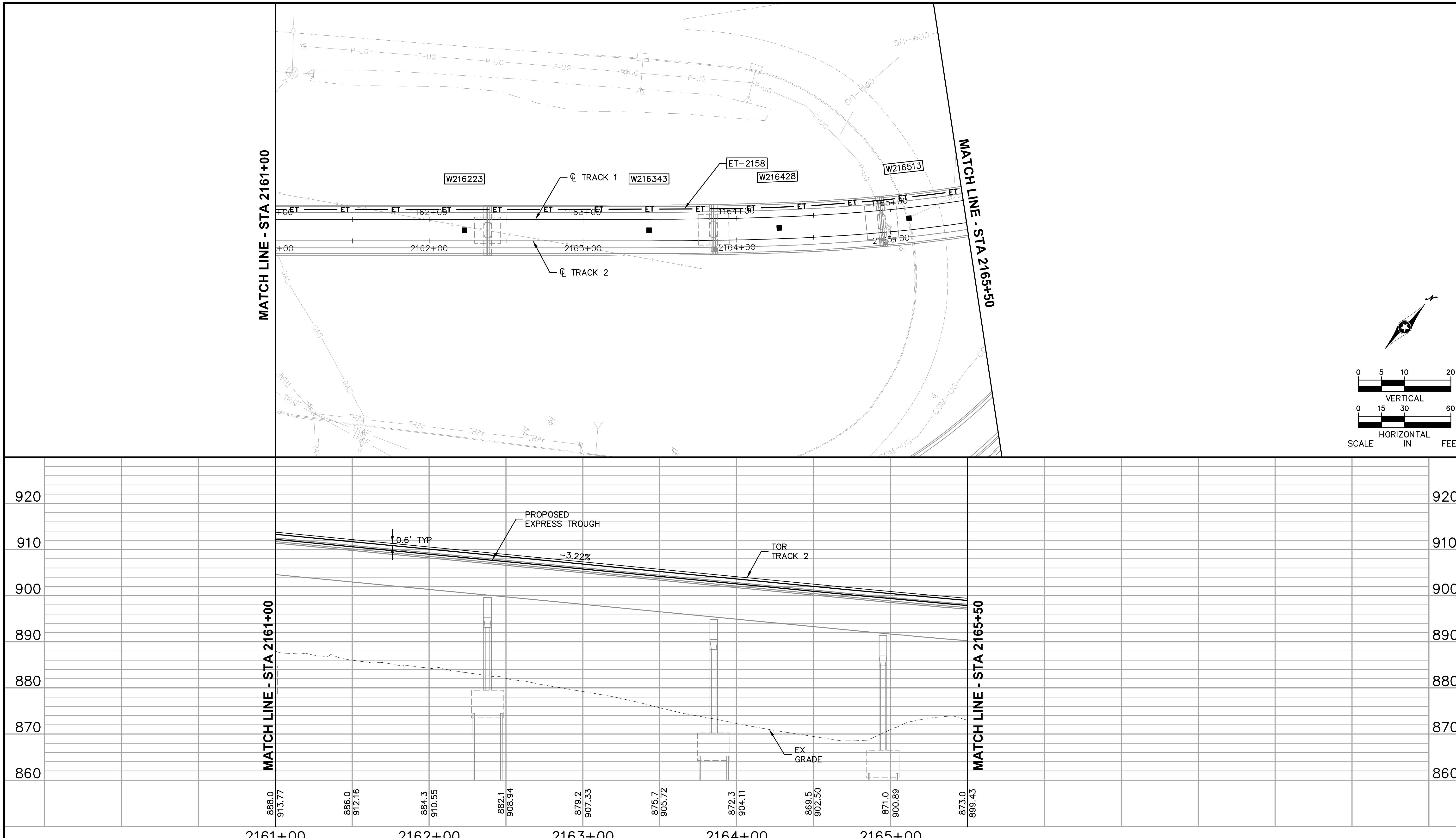
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2154+50 TO STA 2161+00

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-013



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2161+00 TO STA 2165+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-014

SHEET 55 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2158	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

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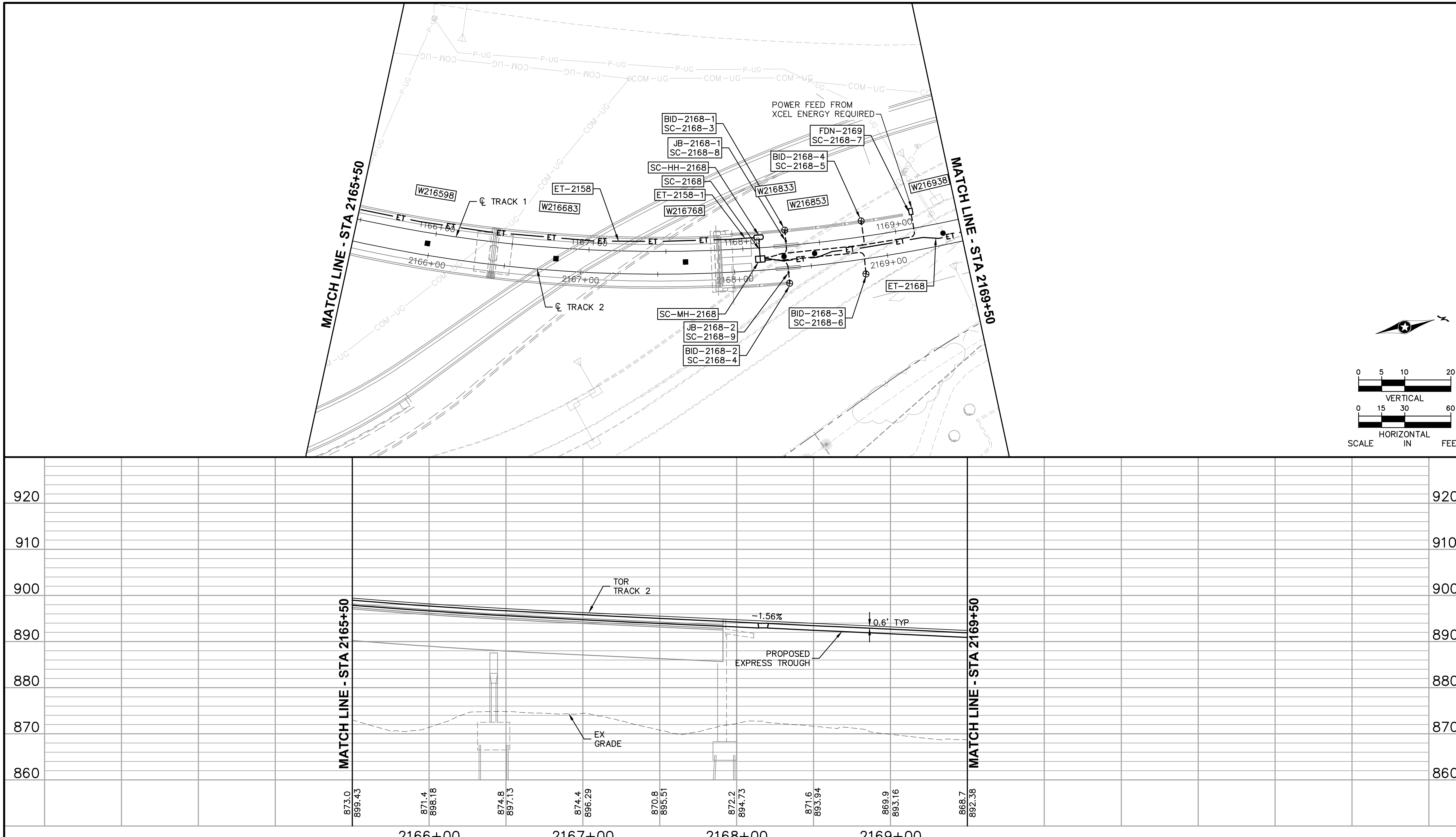
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2161+00 TO STA 2165+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-014



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2165+50 TO STA 2169+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-015

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2168	2168+17	7.4' L	SWE-DTL-003	SC MANHOLE
SC-HH-2168	2168+17	21.8' L	SWE-DTL-005	SC HANDHOLE
BID-2168-1	2168+35	24.8' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2168-2	2168+35	10.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2168-3	2168+85	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2168-4	2168+85	24.8' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
FDN-2169	2169+20	25.5' L	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2168-1	2168+35	17.7' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2168-2	2168+35	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2158	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2158-1	EAST BRIDGE ABUTMENT	SC-HH-2168	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2168	SC-MH-2168	SC-MHH-2213	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2168	SC-MH-2168	SC-HH-2168	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2168-3	SC-MH-2168	BID-2168-1	1-2	STU-DTL-001	SC CONDUIT
SC-2168-4	SC-MH-2168	BID-2168-2	1-2	STU-DTL-001	SC CONDUIT
SC-2168-5	SC-MH-2168	BID-2168-4	1-2	STU-DTL-001	SC CONDUIT
SC-2168-6	SC-MH-2168	BID-2168-3	1-2	STU-DTL-001	SC CONDUIT
SC-2168-7	SC-MH-2168	FDN-2169	4-2	STU-DTL-001	SC CONDUIT
SC-2168-8	SC-MH-2168	JB-2168-1	1-2	STU-DTL-001	SC CONDUIT
SC-2168-9	SC-MH-2168	JB-2168-2	1-3	STU-DTL-001	SC CONDUIT

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METROPOLITAN COUNCIL

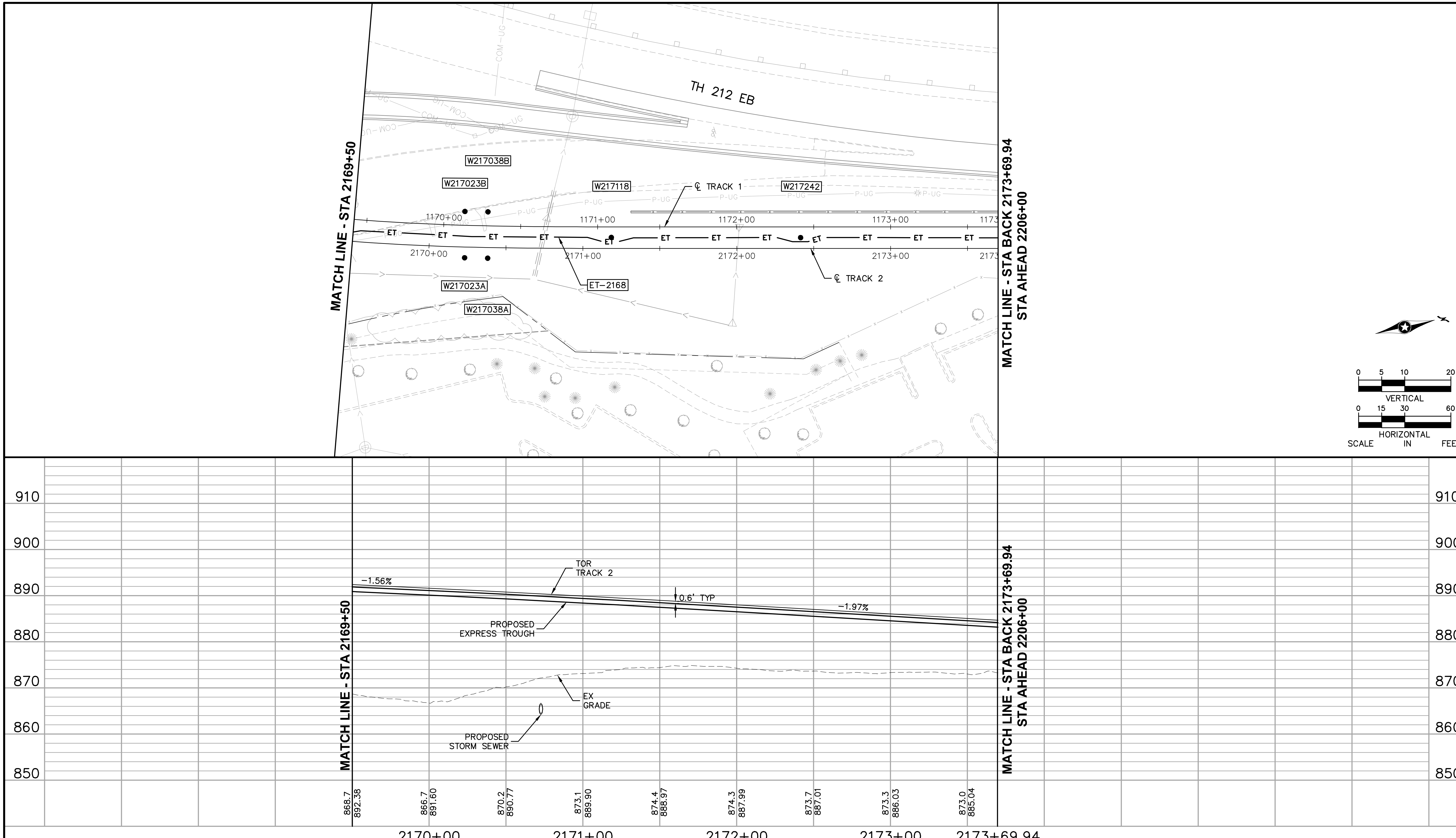
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2165+50 TO STA 2169+50

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-015

SHEET 58 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2169+50 TO STA 2173+69.94

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-PRF-016

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2168	SC-MH-2168	SC-MHH-2213	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

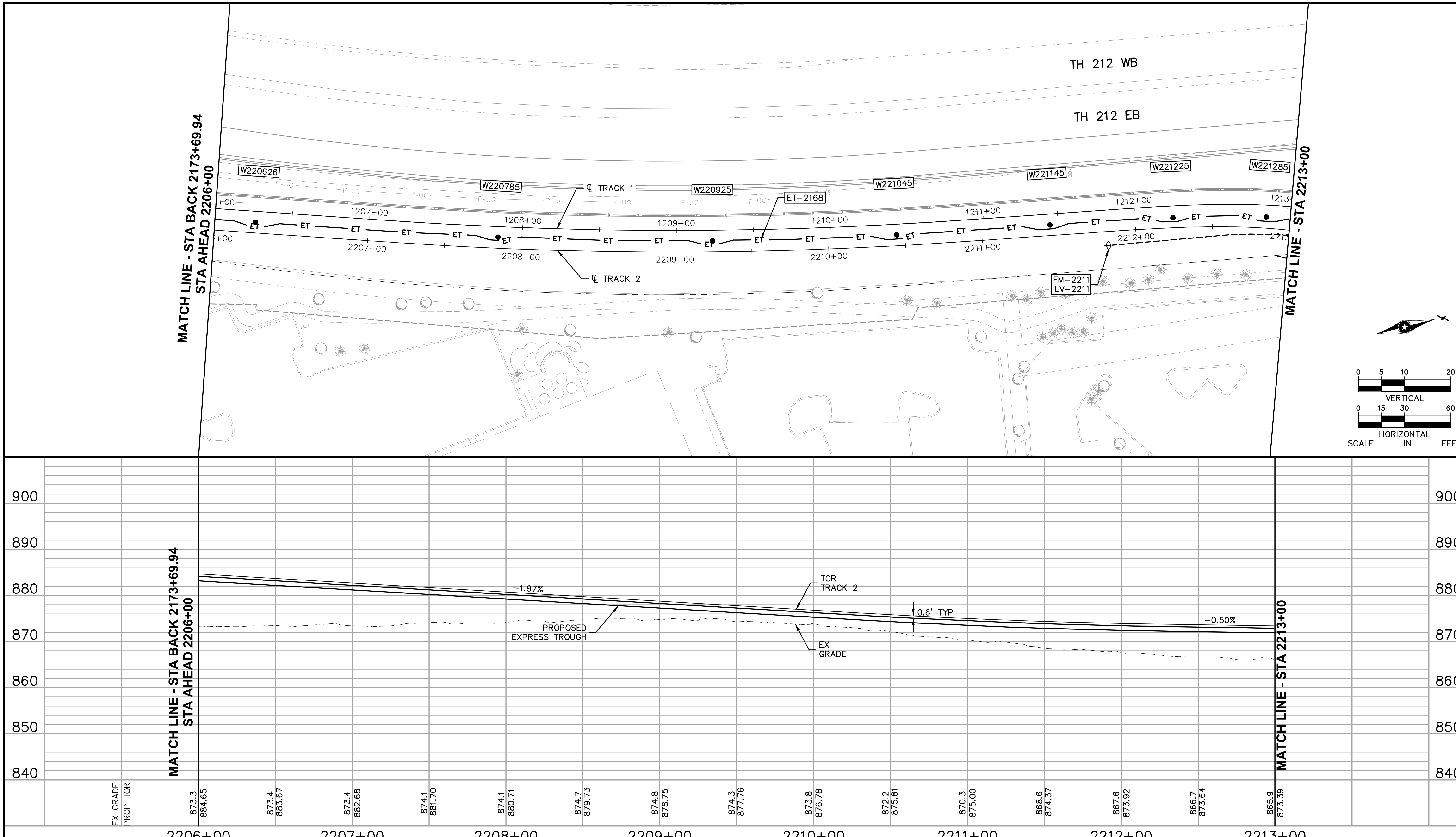
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2169+50 TO STA 2173+69.94

DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SCH-016

SHEET 60 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2206+00 TO STA 2213+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-001

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
FM-2211	2211+82	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2168	SC-MH-2168	SC-HH-2213	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
LV-2211	FM-2211	CSU-2213-6	1-2	STU-DTL-001	LV CONDUIT

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2206+00 TO STA 2213+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-001

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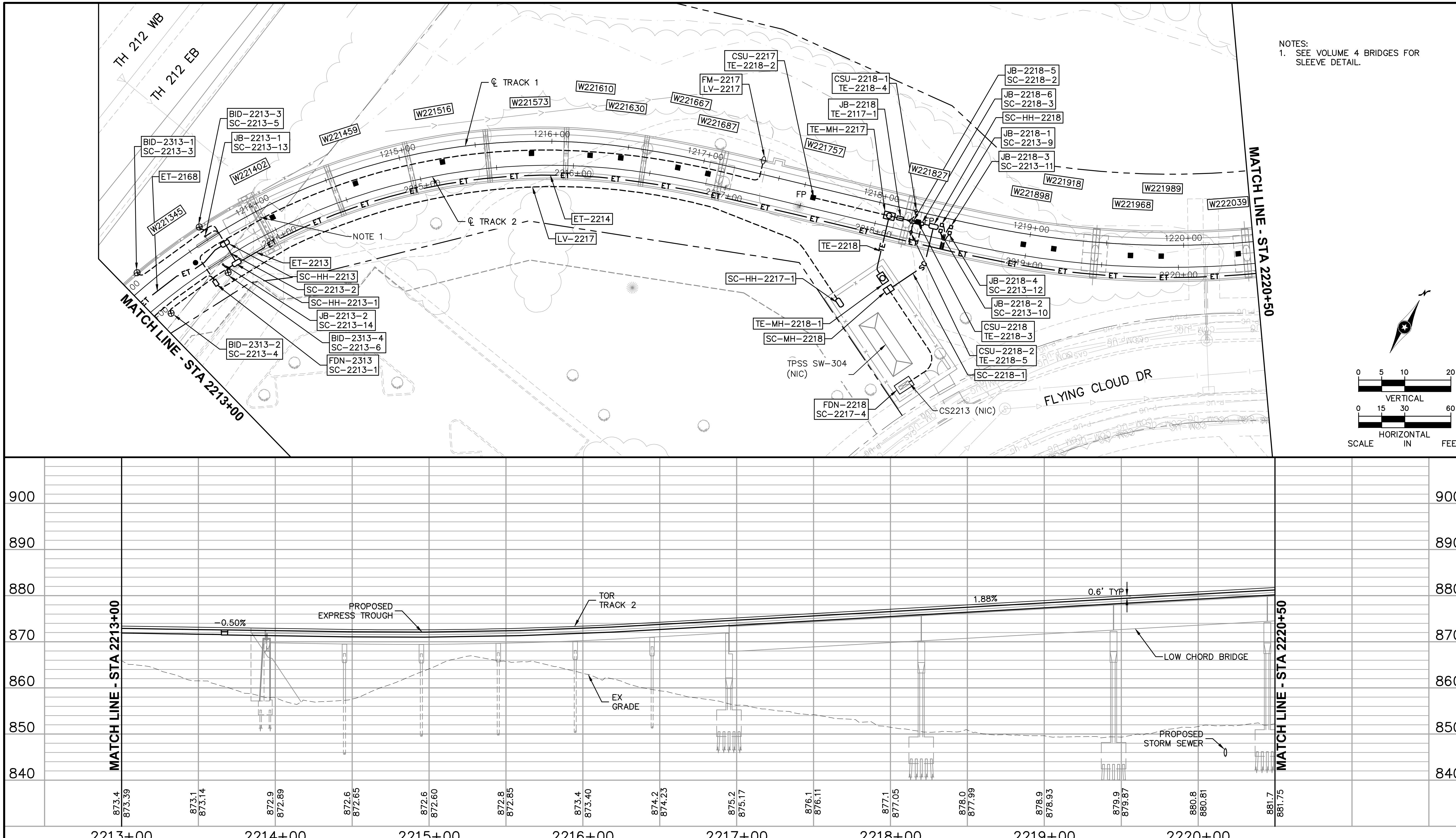
NOTES:
1. SEE VOLUME 4 BRIDGES FOR SLEEVE DETAIL.



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2213+00 TO STA 2220+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-002

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2213	2213+67	8.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2231-1	2213+67	6.0' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2218	2218+38	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2217-1	2217+90	55.0' R	SWE-DTL-005	SC HANDHOLE
SC-MH-2218	2218+19	40.0' R	SWE-DTL-003	SC MANHOLE
FDN-2213	2213+48	9.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
FDN-2218	2218+42	98.0' R	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
JB-2213-1	2213+59	19.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2213-2	2213+59	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2218	2218+15	7.0' L		TE JUNCTION BOX
JB-2218-1	2218+42	9.0' L	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2218-2	2218+42	5.0' L	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2218-3	2218+48	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2218-4	2218+48	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2218-5	2218+24	7.0' L		SC JUNCTION BOX
JB-2218-6	2218+29	7.0' L		SC JUNCTION BOX
BID-2313-1	2313+12	25.4' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2313-2	2313+12	9.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2313-3	2313+59	25.8' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2313-4	2313+59	9.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
CSU-2217	2217+59	6.7' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2218	2218+30	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2218-1	2218+24	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2218-2	2218+24	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
TE-MH-2218	2218+08	7.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2218-1	2218+13	48.0' R	SWE-DTL-002	TE MANHOLE
FM-2217	2217+20	23.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2168	SC-MH-2168	SC-HH-2213	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2213	SC-HH-2231-1	WEST BRIDGE ABUTMENT	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2214	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2213-2	SC-HH-2213	SC-HH-2231-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2218-1	SC-MH-2218	SC-HH-2218	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2213-1	SC-HH-2231-1	FDN-2213	4-2	STU-DTL-001	SC CONDUIT
SC-2213-3	CSU-2213-1	BID-2313-1	1-2	STU-DTL-001	SC CONDUIT
SC-2213-4	SC-HH-2231-1	BID-2213-2	1-2	STU-DTL-001	SC CONDUIT
SC-2213-5	SC-HH-2213	BID-2313-3	1-2	STU-DTL-001	SC CONDUIT
SC-2213-6	SC-HH-2231-1	BID-2313-4	1-2	STU-DTL-001	SC CONDUIT
SC-2213-9	ET-2213	JB-2218-1	1-2	STU-DTL-001	SC CONDUIT
SC-2213-10	ET-2213	JB-2218-2	1-2	STU-DTL-001	SC CONDUIT
SC-2213-11	ET-2213	JB-2218-3	1-2	STU-DTL-001	SC CONDUIT
SC-2213-12	ET-2213	JB-2218-4	1-2	STU-DTL-001	SC CONDUIT
SC-2213-13	SC-HH-2213	JB-2213-1	1-2	STU-DTL-001	SC CONDUIT
SC-2213-14	SC-HH-2213	JB-2213-2	1-2	STU-DTL-001	SC CONDUIT
SC-2218-2	SC-HH-2218	JB-2218-5	1-4	STU-DTL-001	SC CONDUIT
SC-2218-3	SC-HH-2218	JB-2218-6	1-4	STU-DTL-001	SC CONDUIT
SC-2217-4	SC-HH-2218	FDN-2218	4-4	STU-DTL-001	SC CONDUIT
TE-2218	TE-MH-2217-1	TE-MH-2217-1	4-5	4A/STU-DTL-002	TE DUCTBANK
TE-2217-1	TE-MH-2217	JB-2218	4-4	STU-DTL-002	TE CONDUIT
TE-2218-2	JB-2218	CSU-2217	2-4	STU-DTL-002	TE CONDUIT
TE-2218-3	JB-2218	CSU-2218	2-4	STU-DTL-002	TE CONDUIT
TE-2218-4	JB-2218	CSU-2218-1	1-5	STU-DTL-002	TE CONDUIT
TE-2218-5	JB-2218	CSU-2218-2	1-5	STU-DTL-002	TE CONDUIT
LV-2217	SC-MH-2217-1	FDN-2213	4-2	STU-DTL-001	LV CONDUIT

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CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2213+00 TO STA 2220+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-002

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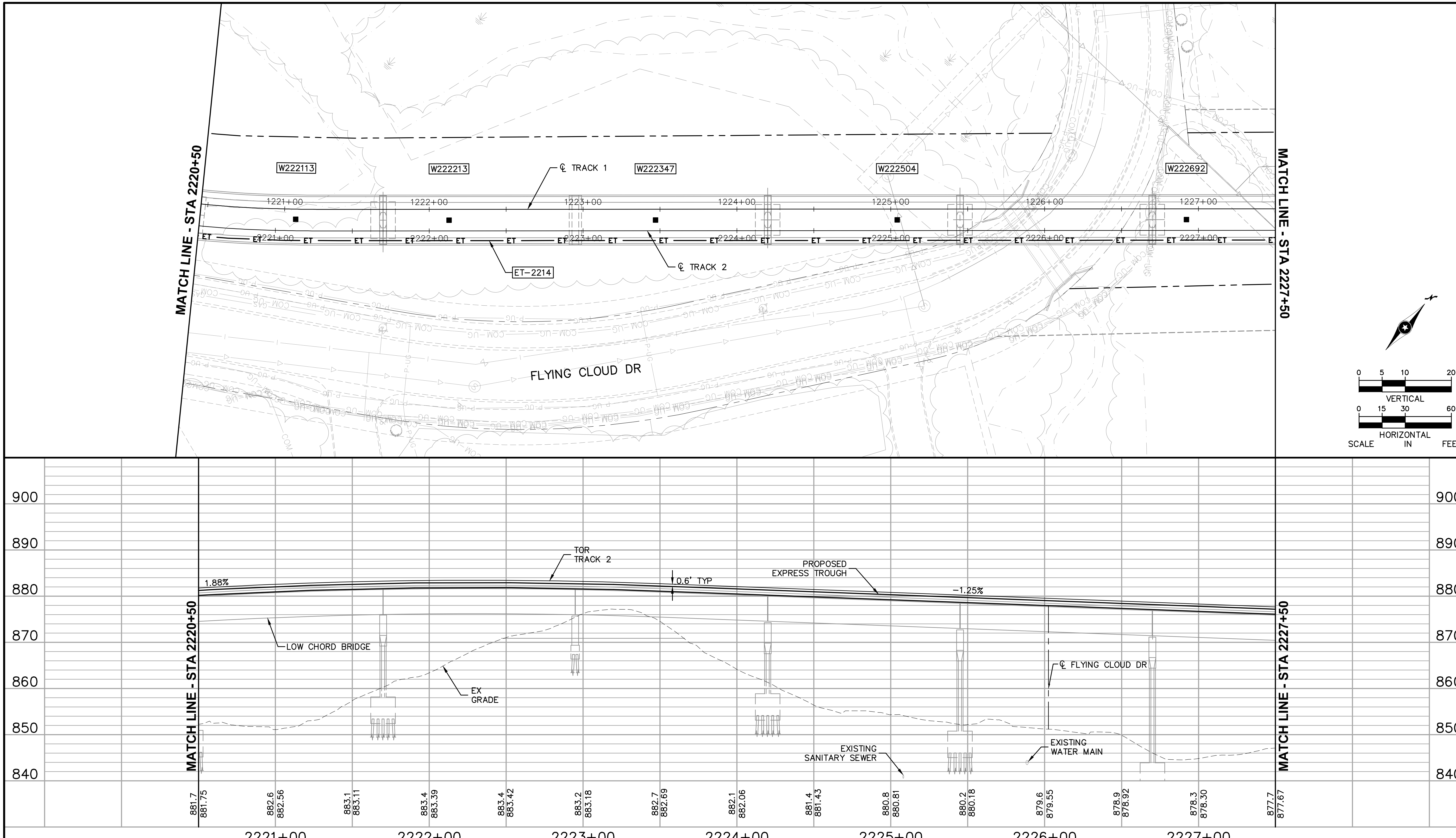

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2220+50 TO STA 2227+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-003

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2214	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2220+50 TO STA 2227+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-003

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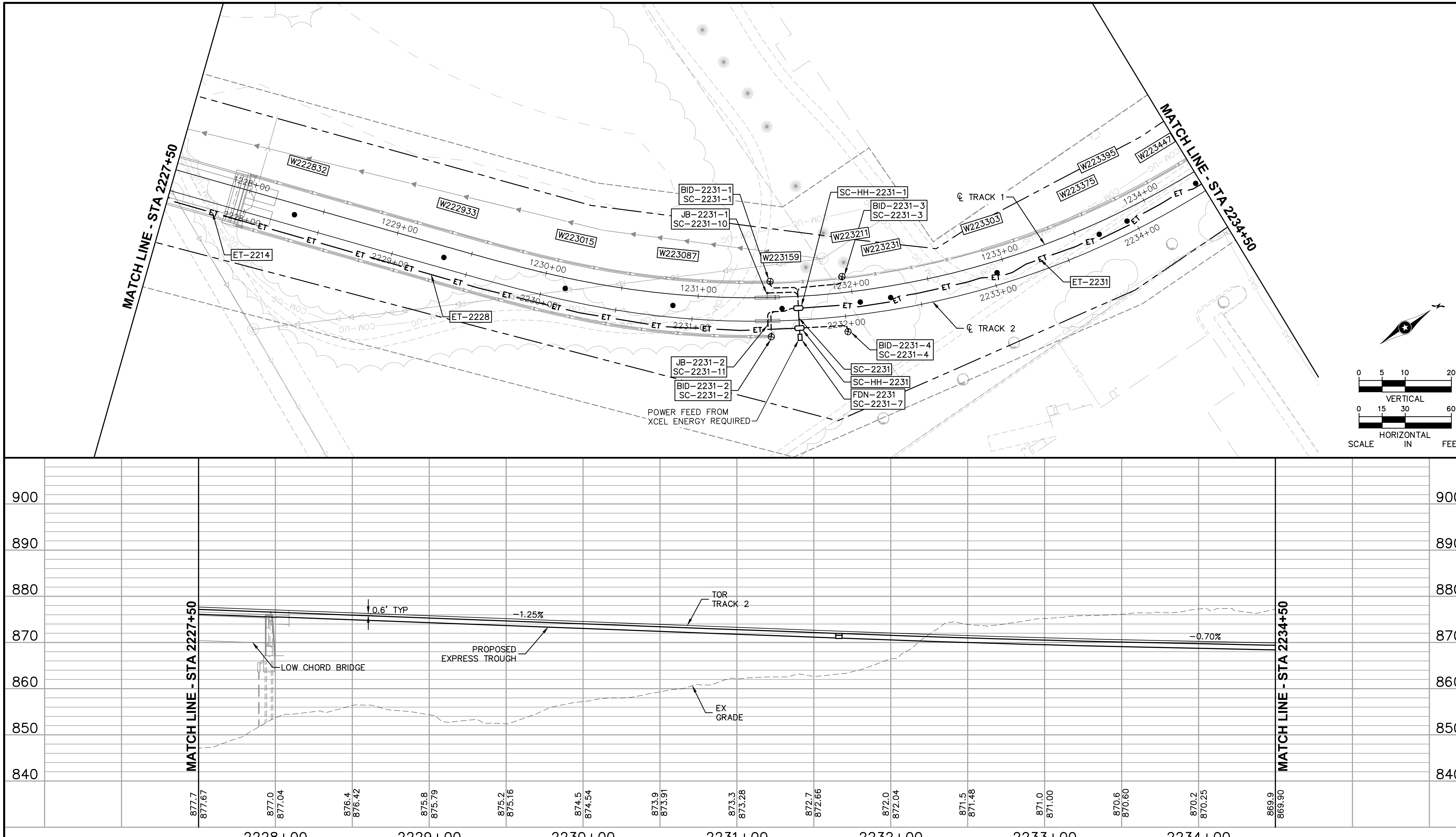

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2227+50 TO STA 2234+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-004

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2231	2231+70	5.4' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2231-1	2231+70	7.3' L	SWE-DTL-005	SC HANDHOLE
FDN-2231	2231+70	9.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2231-1	2231+52	18.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2231-2	2231+53	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
BID-2231-1	2231+52	25.7' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2231-2	2231+52	10.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2231-3	2232+02	25.7' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2231-4	2232+02	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2214	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2228	EAST BRIDGE ABUTMENT	SC-HH-2231	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2231	SC-HH-2231-1	SC-MH-2235	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2231	SC-HH-2231	SC-HH-2231-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2231-1	SC-HH-2231-1	BID-2231-1	1-2	STU-DTL-001	SC CONDUIT
SC-2231-2	SC-HH-2231-1	BID-2231-2	1-2	STU-DTL-001	SC CONDUIT
SC-2231-3	SC-HH-2231-1	BID-2231-3	1-2	STU-DTL-001	SC CONDUIT
SC-2231-4	SC-HH-2231	BID-2231-4	1-2	STU-DTL-001	SC CONDUIT
SC-2231-5	SC-HH-2231-1	BID-2231-1	1-2	STU-DTL-001	SC CONDUIT
SC-2231-6	SC-HH-2231	BID-2231-2	1-2	STU-DTL-001	SC CONDUIT
SC-2231-7	SC-HH-2231	FDN-2231	4-2	STU-DTL-001	SC CONDUIT
SC-2231-10	SC-HH-2231-1	JB-2231-1	1-2	STU-DTL-001	SC CONDUIT
SC-2231-11	SC-HH-2231	JB-2231-2	1-2	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

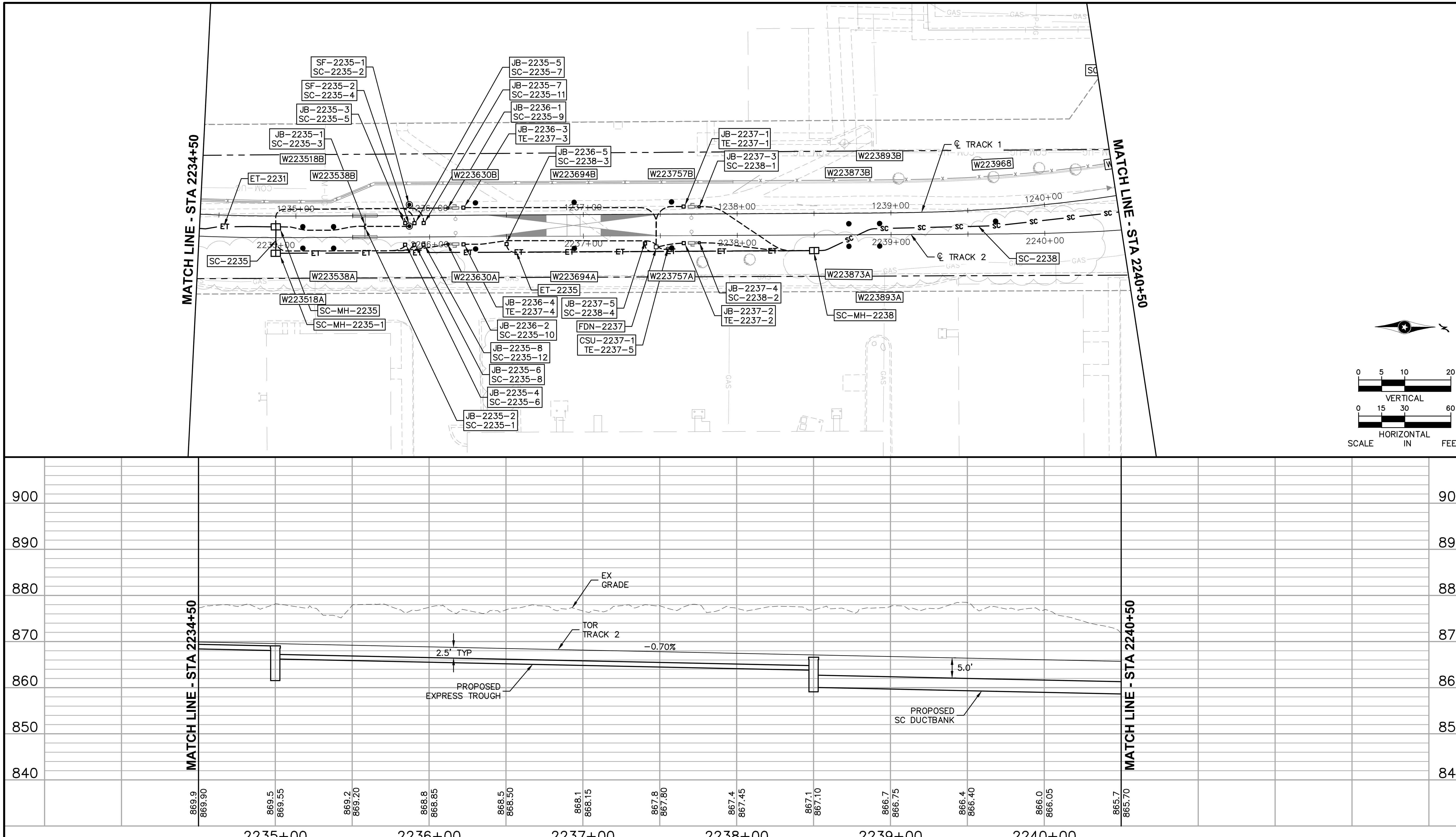
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2227+50 TO STA 2234+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-004

SHEET 68 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL PLAN AND PROFILE
STA 2234+50 TO STA 2240+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-005

SHEET 69 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2235	2235+00	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2235-1	2235+00	11.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2238-1	2238+50	10.0' R	SWE-DTL-003	SC MANHOLE
JB-2235-1	2235+58	8.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2235-2	2235+58	6.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2235-3	2235+84	9.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2235-4	2235+84	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2235-5	2235+90	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2235-6	2235+90	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2235-7	2235+96	9.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2235-8	2235+96	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2236-1	2236+12	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2236-2	2236+22	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2236-3	2236+12	5.0' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2236-4	2236+22	5.0' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2236-5	2236+50	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2237-1	2237+65	19.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2237-2	2237+65	5.0' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2237-3	2237+75	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2237-4	2237+75	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2237-5	2237+40	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
SF-2235-1	2235+88	21.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2235-2	2235+88	6.7' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
FDN-2237	2237+47	7.0' R	SWE-DTL-SIG-016	SWITCH HEATER FOUNDATION AND STUB UP
CSU-2237-1	2237+55	8.0' R	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2231	SC-HH-2231-1	SC-MH-2235	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2235	SC-MH-2235-1	SC-MH-2238	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2235	SC-MH-2235	SC-MH-2235-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2238	SC-MH-2238	SC-MH-2240	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2235-1	SC-MH-2235	JB-2235-2	1-2	STU-DTL-001	SC CONDUIT
SC-2235-2	SC-MH-2235	SF-2235-1	1-2	STU-DTL-001	SC CONDUIT
SC-2235-3	SC-MH-2235	JB-2235-1	1-2	STU-DTL-001	SC CONDUIT
SC-2235-4	SC-MH-2235	SF-2235-2	1-2	STU-DTL-001	SC CONDUIT
SC-2235-5	SC-MH-2235	JB-2235-3	1-2	STU-DTL-001	SC CONDUIT
SC-2235-6	SC-MH-2235-1	JB-2235-4	1-2	STU-DTL-001	SC CONDUIT
SC-2235-7	SC-MH-2235	JB-2235-5	1-2	STU-DTL-001	SC CONDUIT
SC-2235-8	SC-MH-2235-1	JB-2235-6	1-2	STU-DTL-001	SC CONDUIT
SC-2235-9	SC-MH-2235	JB-2236-1	1-3	STU-DTL-001	SC CONDUIT
SC-2235-10	SC-MH-2235-1	JB-2236-2	1-3	STU-DTL-001	SC CONDUIT
SC-2235-11	SC-MH-2235	JB-2235-7	1-2	STU-DTL-001	SC CONDUIT
SC-2235-12	SC-MH-2235-1	JB-2235-8	1-2	STU-DTL-001	SC CONDUIT
SC-2238-1	SC-MH-2238	JB-2237-3	1-3	STU-DTL-001	SC CONDUIT
SC-2238-2	SC-MH-2238	JB-2237-4	1-3	STU-DTL-001	SC CONDUIT
SC-2238-3	SC-MH-2238	JB-2236-5	1-2	STU-DTL-001	SC CONDUIT
SC-2238-4	SC-MH-2238	JB-2237-5	1-2	STU-DTL-001	SC CONDUIT
TE-2237-1	FDN-2237	JB-2237-1	1-2	STU-DTL-002	TE CONDUIT
TE-2237-2	FDN-2237	JB-2237-2	1-2	STU-DTL-002	TE CONDUIT
TE-2237-3	FDN-2237	JB-2236-3	1-2	STU-DTL-002	TE CONDUIT
TE-2237-4	FDN-2237	JB-2236-4	1-2	STU-DTL-002	TE CONDUIT
TE-2237-5	FDN-2237	CSU-2237-1	1-4	STU-DTL-002	TE CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2234+50 TO STA 2240+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-005

SHEET 70 OF 464

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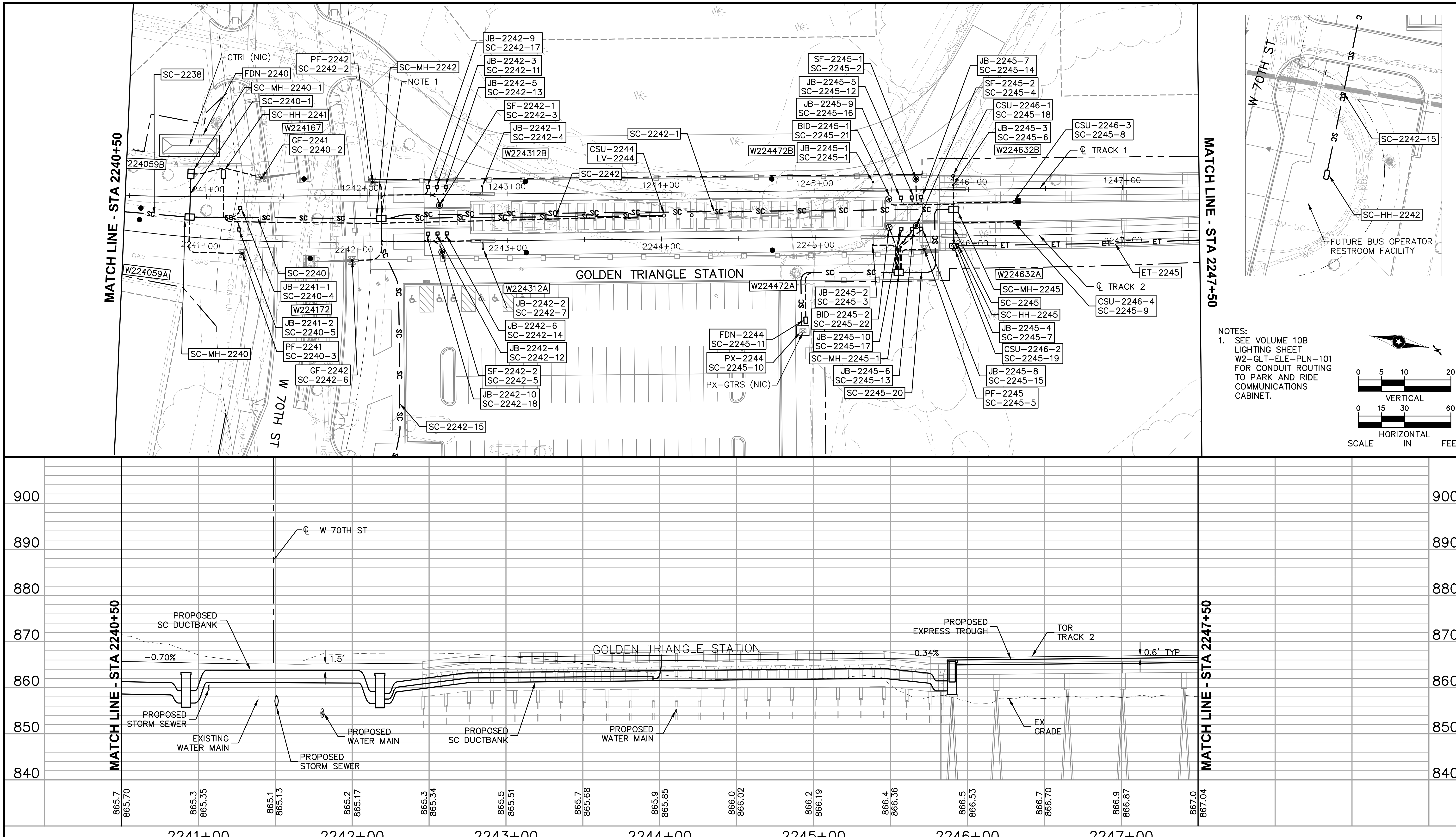

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2240+50 TO STA 2247+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-006

SHEET 71 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2240	2240+92	13.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2240-1	2240+90	41.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2242	2242+18	15.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2245	2245+90	17.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2245-1	2245+54	23.0' R	SWE-DTL-003	SC MANHOLE
SC-HH-2241	2241+13	42.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2242	2242+03	245.0' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2245	2245+90	6.5' R	SWE-DTL-005	SC HANDHOLE
CSU-2244	2244+02	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2246-1	2245+90	39.0' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2246-2	2245+90	8.6' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2246-3	2246+30	37.0' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2246-4	2246+30	7.0' R		INTRUSION DETECTION CONDUIT STUB UP
FDN-2240	2240+88	59.2' L	SWE-DTL-SIG-014	SC HOUSE FOUNDATION
FDN-2244	2244+91	53.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
PX-2244	2244+91	60.5' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2241	2241+28	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2242	2242+12	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2245	2245+71	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2242-1	2242+56	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2242-2	2242+57	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2245-1	2245+66	37.4' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2245-2	2245+66	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2241-1	2241+25	21.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2241-2	2241+25	7.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2242-1	2242+84	33.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2242-2	2242+84	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2242-3	2242+54	35.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2242-4	2242+54	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2242-5	2242+60	35.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2242-6	2242+60	5.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2242-9	2242+48	35.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2242-10	2242+48	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2245-1	2245+38	33.5' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2245-2	2245+38	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2245-3	2245+90	33.3' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2245-4	2245+90	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2245-5	2245+63	25.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2245-6	2245+63	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2245-7	2245+69	25.0' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2245-8	2245+69	5.0' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2245-9	2245+56	25.0' L	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2245-10	2245+56	5.0' L	B/SWE-DTL-SIG-003	SINGLE IMPEDANCE BOND JUNCTION BOX
GF-2241	2241+39	41.1' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2242	2241+99	12.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
BID-2245-1	2245+48	24.5' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2245-2	2245+48	6.0' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2238	SC-MH-2238	SC-MH-2240	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2245	SC-MH-2245	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2238	SC-MH-2238	SC-MH-2240	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2240	SC-MH-2240	SC-MH-2242	16-4	16A/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2240-1	SC-MH-2240	SC-MH-2240-1	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2242	SC-MH-2242	CSU-2244	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2242-1	SC-MH-2242	SC-MH-2245	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2242-15	SC-MH-2242	SC-HH-2242	2-4	2/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2245	SC-MH-2245	SC-HH-2245	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2245-10	SC-MH-2245	PX-2244	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2245-20	SC-MH-2245	SC-MH-2245-1	8-4		SC DUCTBANK
SC-2240-2	SC-MH-2240-1	GF-2241	1-4	STU-DTL-001	SC CONDUIT
SC-2240-3	SC-MH-2240	PF-2241	1-4	STU-DTL-001	SC CONDUIT
SC-2240-4	SC-MH-2240	JB-2241-1	1-2	STU-DTL-001	SC CONDUIT
SC-2240-5	SC-MH-2240	JB-2241-2	1-2	STU-DTL-001	SC CONDUIT
SC-2242-2	SC-MH-2242	PF-2242	1-4	STU-DTL-001	SC CONDUIT
SC-2242-3	SC-MH-2242	SF-2242-1	1-2	STU-DTL-001	SC CONDUIT
SC-2242-4	SC-MH-2242	JB-2242-1	1-2	STU-DTL-001	SC CONDUIT
SC-2242-5	SC-MH-2242	SF-2242-2	1-2	STU-DTL-001	SC CONDUIT
SC-2242-6	SC-MH-2242	GF-2242	1-4	STU-DTL-001	SC CONDUIT
SC-2242-7	SC-MH-2242	JB-2242-2	1-2	STU-DTL-001	SC CONDUIT
SC-2242-11	SC-MH-2242	JB-2242-3	1-2	STU-DTL-001	SC CONDUIT
SC-2242-12	SC-MH-2242	JB-2242-4	1-2	STU-DTL-001	SC CONDUIT
SC-2242-13	SC-MH-2242	JB-2242-5	1-2	STU-DTL-001	SC CONDUIT
SC-2242-14	SC-MH-2242	JB-2242-6	1-2	STU-DTL-001	SC CONDUIT
SC-2242-17	SC-MH-2242	JB-2242-9	1-2	STU-DTL-001	SC CONDUIT
SC-2242-18	SC-MH-2242	JB-2242-10	1-2	STU-DTL-001	SC CONDUIT
SC-2245-1	SC-MH-2245	JB-2245-1	1-2	STU-DTL-001	SC CONDUIT
SC-2245-2	SC-MH-2245	SF-2245-1	1-2	STU-DTL-001	SC CONDUIT
SC-2245-3	SC-MH-2245-1	JB-2245-2	1-2	STU-DTL-001	SC CONDUIT
SC-2245-4	SC-MH-2245	SF-2245-2	1-2	STU-DTL-001	SC CONDUIT
SC-2245-5	SC-MH-2245-1	PF-2245	1-4	STU-DTL-001	SC CONDUIT
SC-2245-6	SC-MH-2245	JB-2245-3	1-4	STU-DTL-001	SC CONDUIT
SC-2245-7	SC-MH-2245	JB-2245-4	1-4	STU-DTL-001	SC CONDUIT
SC-2245-8	JB-2245-3	CSU-2246-3	1-2	STU-DTL-001	SC CONDUIT
SC-2245-9	JB-2245-4	CSU-2246-4	1-2	STU-DTL-001	SC CONDUIT
SC-2245-11	SC-MH-2245	FDN-2244	4-2	STU-DTL-001	SC CONDUIT
SC-2245-12	SC-MH-2245	JB-2245-5	1-2	STU-DTL-001	SC CONDUIT
SC-2245-13	SC-MH-2245-1	JB-2245-6	1-2	STU-DTL-001	SC CONDUIT
SC-2245-14	SC-MH-2245-1	JB-2245-7	1-2	STU-DTL-001	SC CONDUIT
SC-2245-15	SC-MH-2245-1	JB-2245-8	1-2	STU-DTL-001	SC CONDUIT
SC-2245-16	SC-MH-2245	JB-2245-9	1-2	STU-DTL-001	SC CONDUIT
SC-2245-17	SC-MH-2245-1	JB-2245-10	1-2	STU-DTL-001	SC CONDUIT
SC-2245-18	SC-MH-2245	CSU-2246-1	1-2	STU-DTL-001	SC CONDUIT
SC-2245-19	SC-MH-2245	CSU-2246-2	1-2	STU-DTL-001	SC CONDUIT
SC-2245-21	SC-MH-2245	BID-2245-1	1-2	STU-DTL-001	SC CONDUIT
SC-2245-22	SC-MH-2245-1	BID-2245-2	1-2	STU-DTL-001	SC CONDUIT
LV-2244	SC-HH-2241	CSU-2244	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-GLT-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

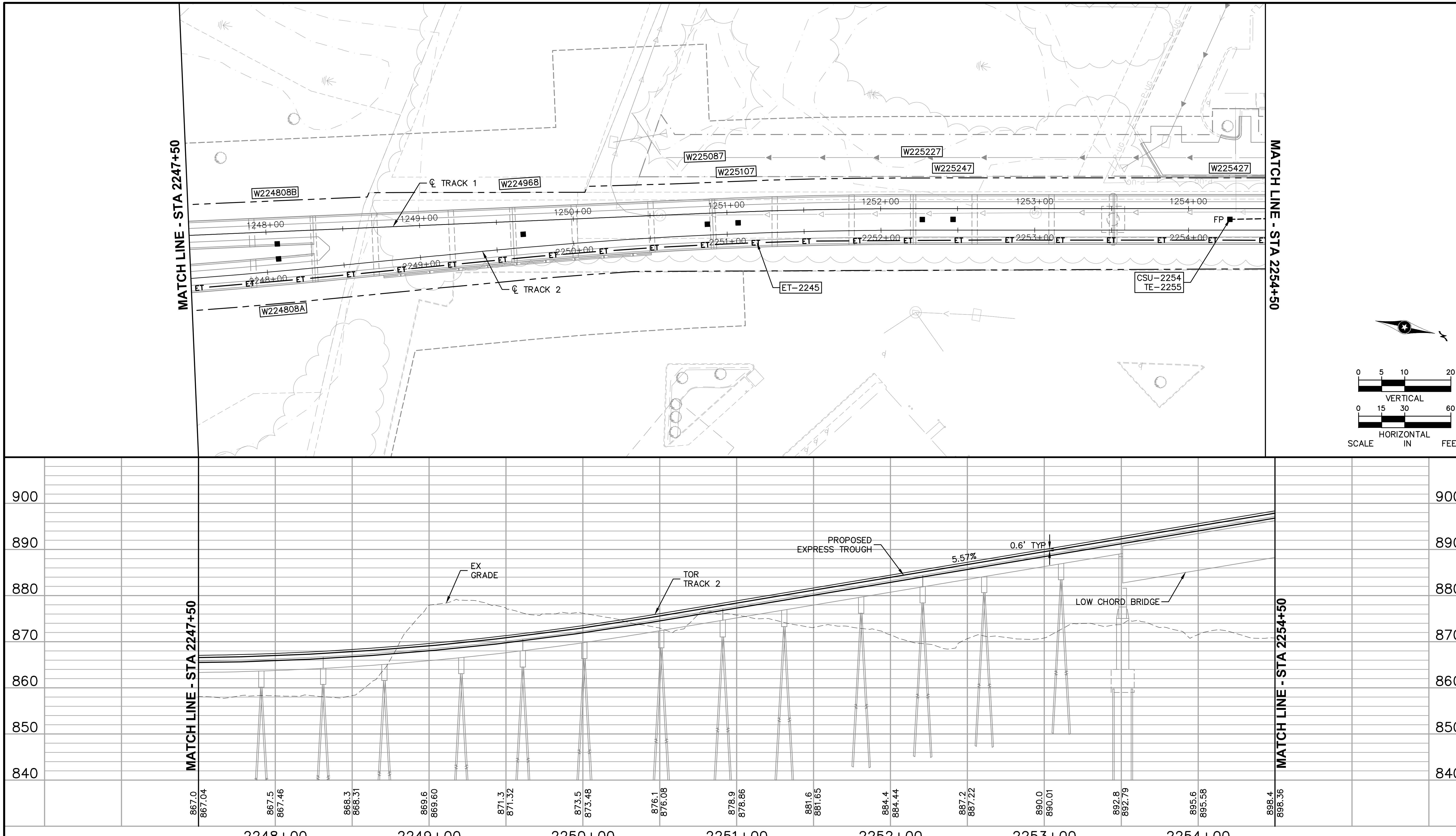
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2240+50 TO STA 2247+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-006



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2247+50 TO STA 2254+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-007

SHEET 73 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
CSU-2254	2254+29	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2245	SC-MH-2245	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
TE-2255	CSU-2254	JB-2255	2-4	STU-DTL-002	TE CONDUIT

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METROPOLITAN COUNCIL

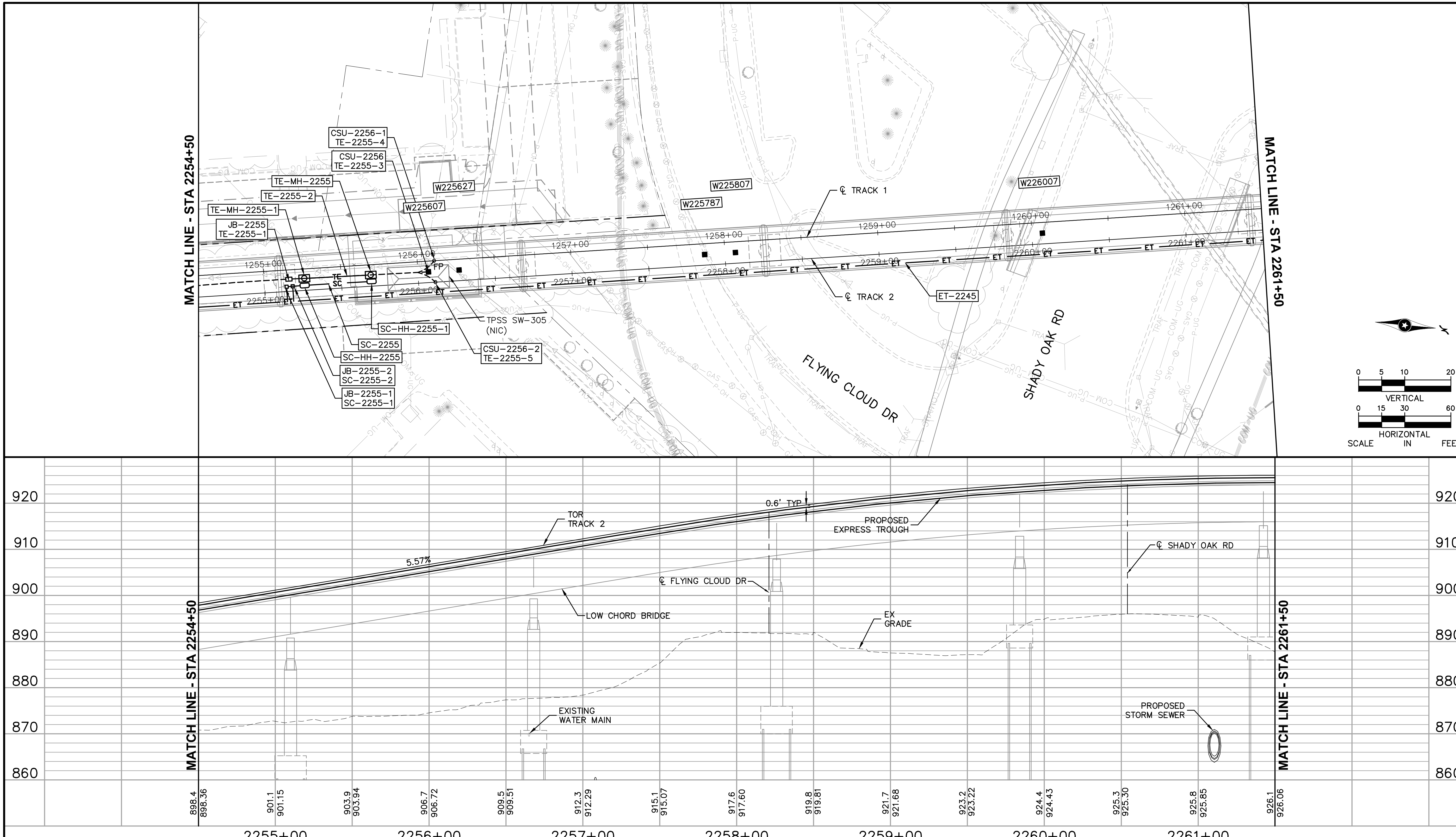
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2247+50 TO STA 2254+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-007

SHEET 74 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2254+50 TO STA 2261+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-008

SHEET 75 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2255	2255+26	3.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2255-1	2255+69	3.0' L	SWE-DTL-005	SC HANDHOLE
TE-MH-2255	2255+69	8.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2255-1	2255+26	8.0' L	SWE-DTL-002	TE MANHOLE
JB-2255	2255+16	8.0' L		TE JUNCTION BOX
JB-2255-1	2255+15	3.0' L		SC JUNCTION BOX
JB-2255-2	2255+16	3.0' L		SC JUNCTION BOX
CSU-2256	2256+04	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2256-1	2256+11	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2256-2	2256+11	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2245	SC-MH-2245	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2255	SC-HH-2255	SC-HH-2255-1	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2255-1	SC-HH-2255	JB-2255-1	1-4	STU-DTL-001	SC CONDUIT
SC-2255-2	SC-HH-2255	JB-2255-2	1-4	STU-DTL-001	SC CONDUIT
TE-2255-2	TE-MH-2255	TE-MH-2255-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2255-1	TE-MH-2255-1	JB-2255	10-5	STU-DTL-002	TE CONDUIT
TE-2255-3	JB-2255	CSU-2256	2-4	STU-DTL-002	TE CONDUIT
TE-2255-4	JB-2255	CSU-2256-1	1-5	STU-DTL-002	TE CONDUIT
TE-2255-5	JB-2255	CSU-2256-2	1-5	STU-DTL-002	TE CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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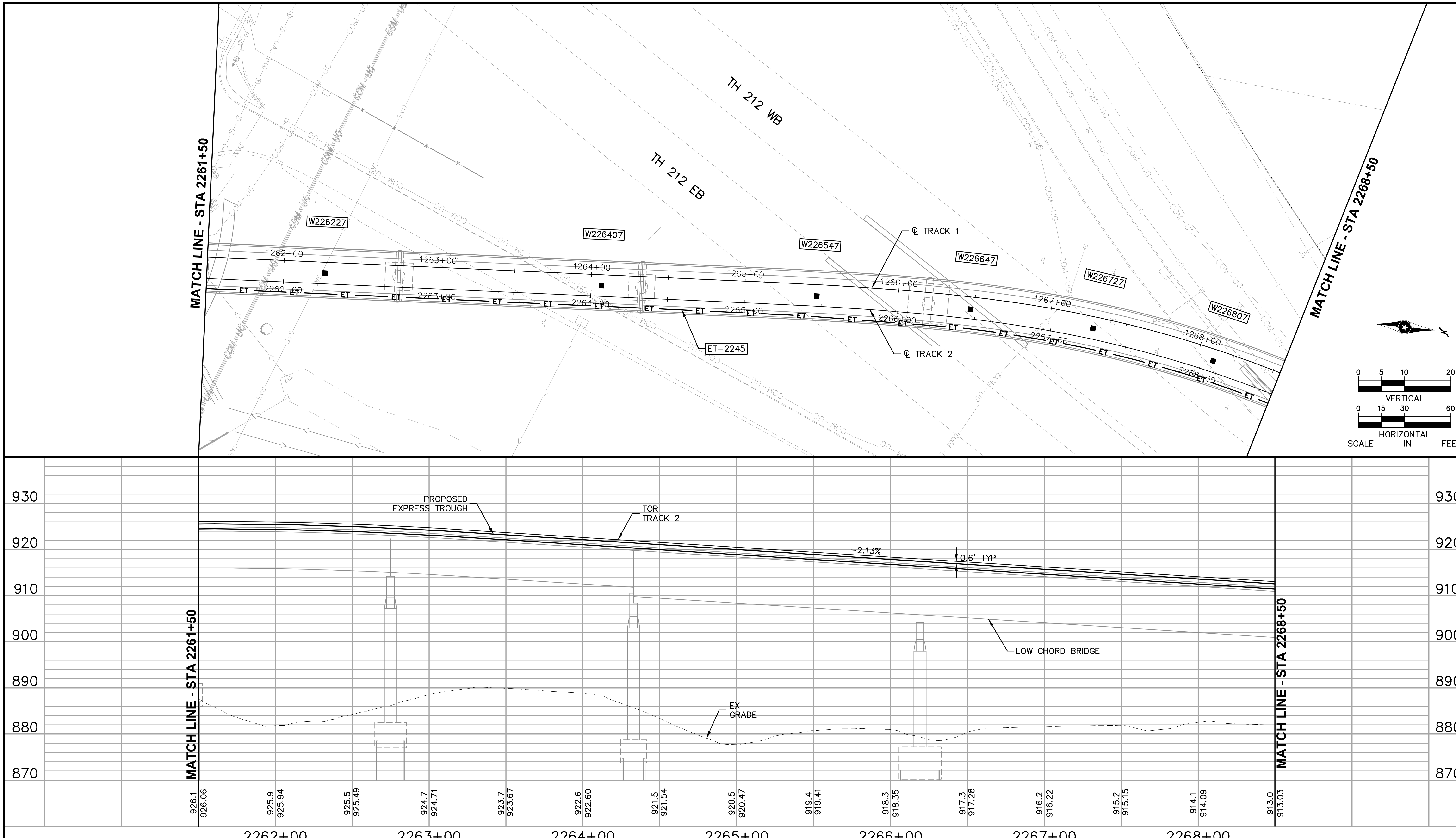
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2254+50 TO STA 2261+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-008



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2261+50 TO STA 2268+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-009

SHEET 77 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2245	SC-MH-2245	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

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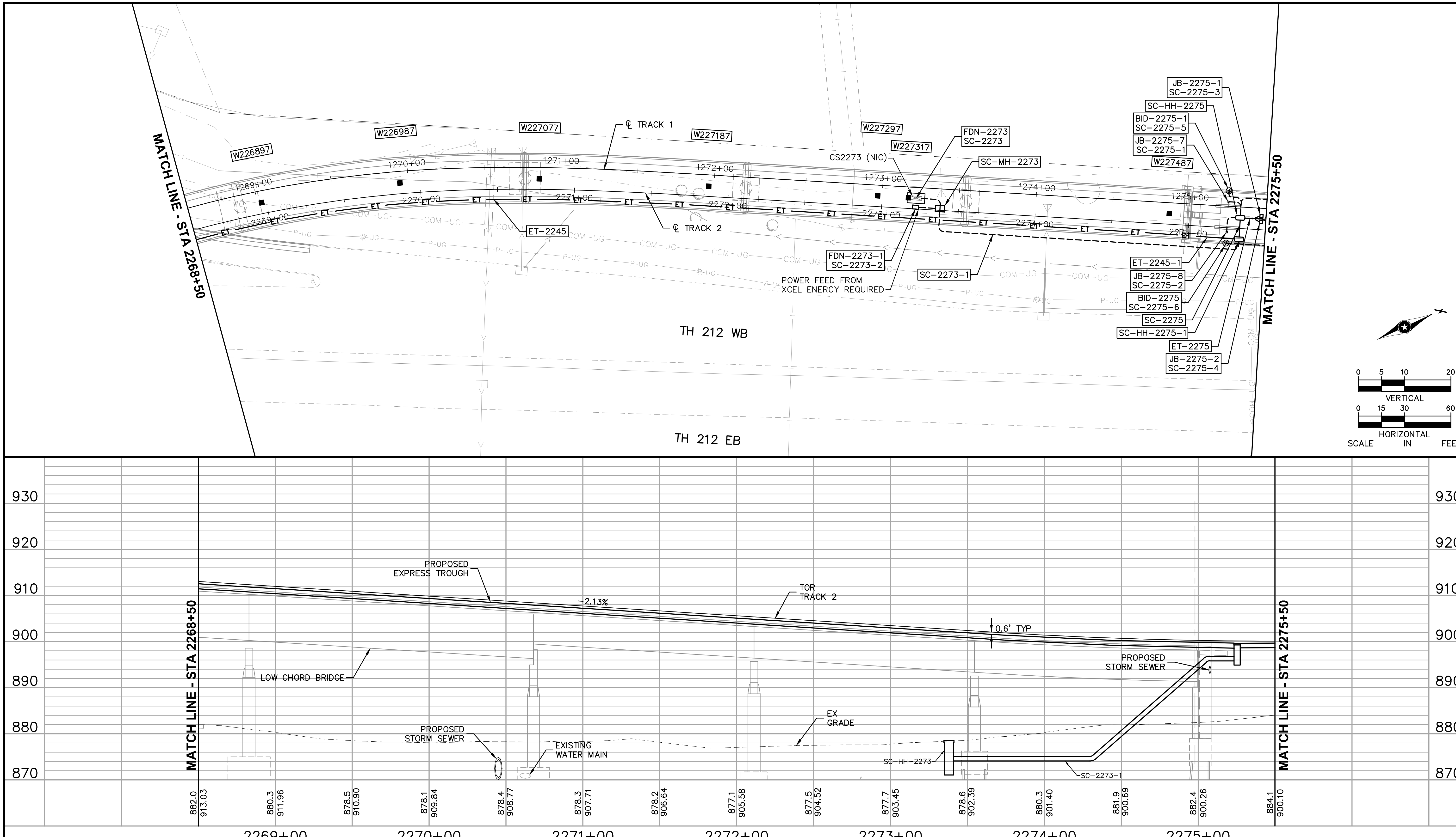
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2261+50 TO STA 2268+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-009



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2268+50 TO STA 2275+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-010

SHEET 79 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2275	2275+33	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2275-1	2275+33	5.0' R	SWE-DTL-005	SC HANDHOLE
SC-MH-2273	2273+38	1.0' L	SWE-DTL-003	SC MANHOLE
FDN-2273	2273+22	7.0' L	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
FDN-2273-1	2273+22	1.0' L	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2275-1	2275+47	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2275-2	2275+47	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2275-7	2275+25	17.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2275-8	2275+25	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
BID-2275-1	2275+25	24.0' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2275-2	2275+25	10.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2245	SC-MH-2245	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2245-1	EAST BRIDGE ABUTMENT	SC-HH-2275-1	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2275	SC-HH-2275	SC-MH-2293	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2275	SC-HH-2275	SC-HH-2275-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2273	FDN-2273	SC-MH-2273	4-4	4/STU-DTL-001	SC CONDUIT
SC-2273-1	SC-MH-2273	SC-HH-2275-1	4-4	4/STU-DTL-001	SC CONDUIT
SC-2273-2	SC-MH-2273	FNDN-2273-1	4-2	STU-DTL-001	SC CONDUIT
SC-2275-1	SC-HH-2275	JB-2275-7	1-2	STU-DTL-001	SC CONDUIT
SC-2275-2	SC-HH-2275-1	JB-2275-8	1-2	STU-DTL-001	SC CONDUIT
SC-2275-3	SC-HH-2275	JB-2275-1	1-2	STU-DTL-001	SC CONDUIT
SC-2275-4	SC-HH-2275	JB-2275-2	1-2	STU-DTL-001	SC CONDUIT
SC-2275-5	SC-HH-2275	BID-2275-1	1-2	STU-DTL-001	SC CONDUIT
SC-2275-6	SC-HH-2275-1	BID-2275-2	1-2	STU-DTL-001	SC CONDUIT
SC-2275-7	SC-HH-2275	BID-2275-3	1-2	STU-DTL-001	SC CONDUIT
SC-2275-8	SC-HH-2275-1	BID-2275-4	1-2	STU-DTL-001	SC CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2268+50 TO STA 2275+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-010

SHEET 80 OF 464

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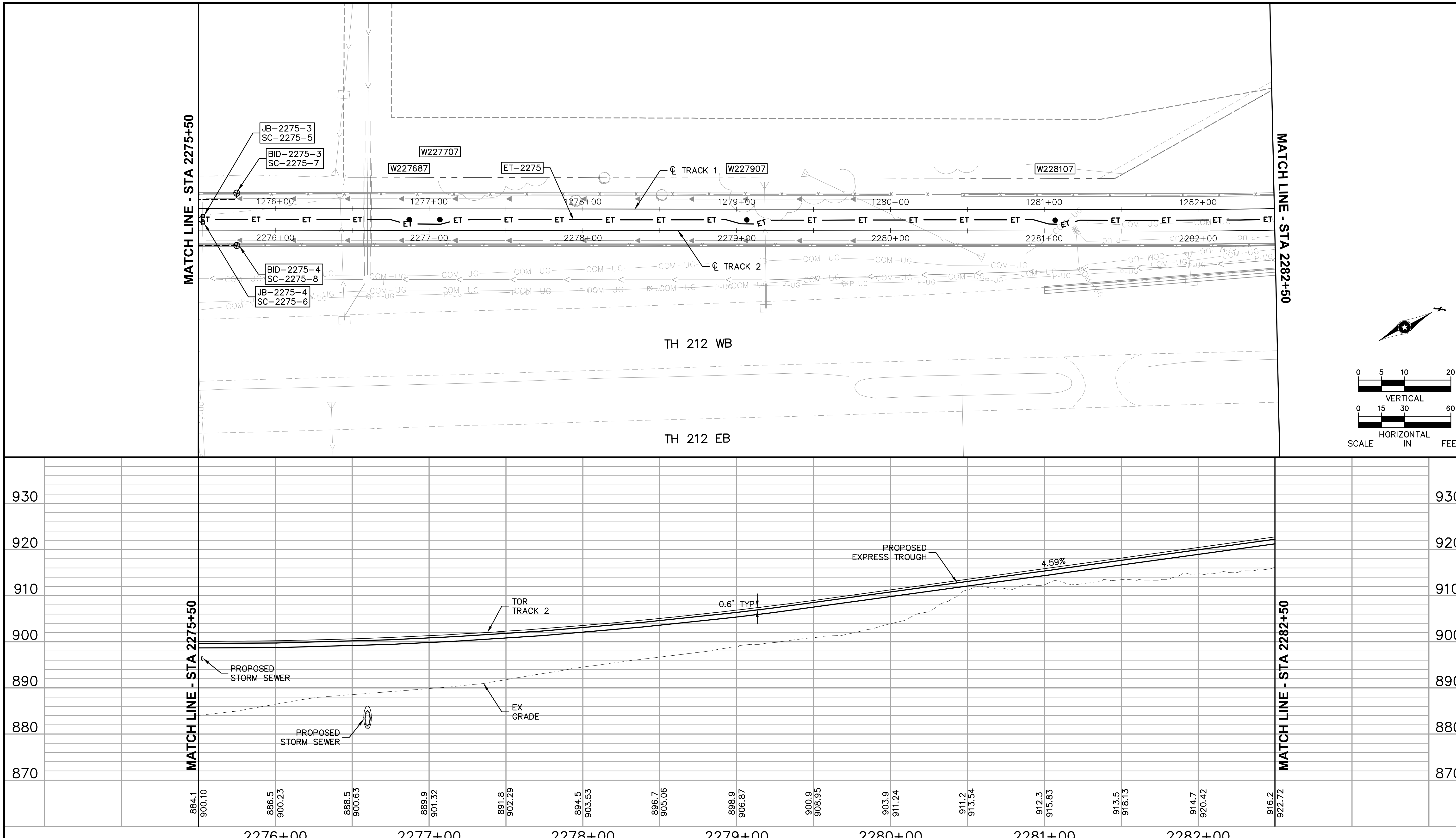

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2275+50 TO STA 2282+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-011

SHEET 81 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
JB-2275-3	2275+53	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2275-4	2275+53	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
BID-2275-3	2275+75	24.0' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2275-4	2275+75	10.0' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2275	SC-MH-2275	SC-MH-2293	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2275-5	SC-MH-2275	JB-2275-3	1-2	STU-DTL-001	SC CONDUIT
SC-2275-6	SC-MH-2275	JB-2275-4	1-2	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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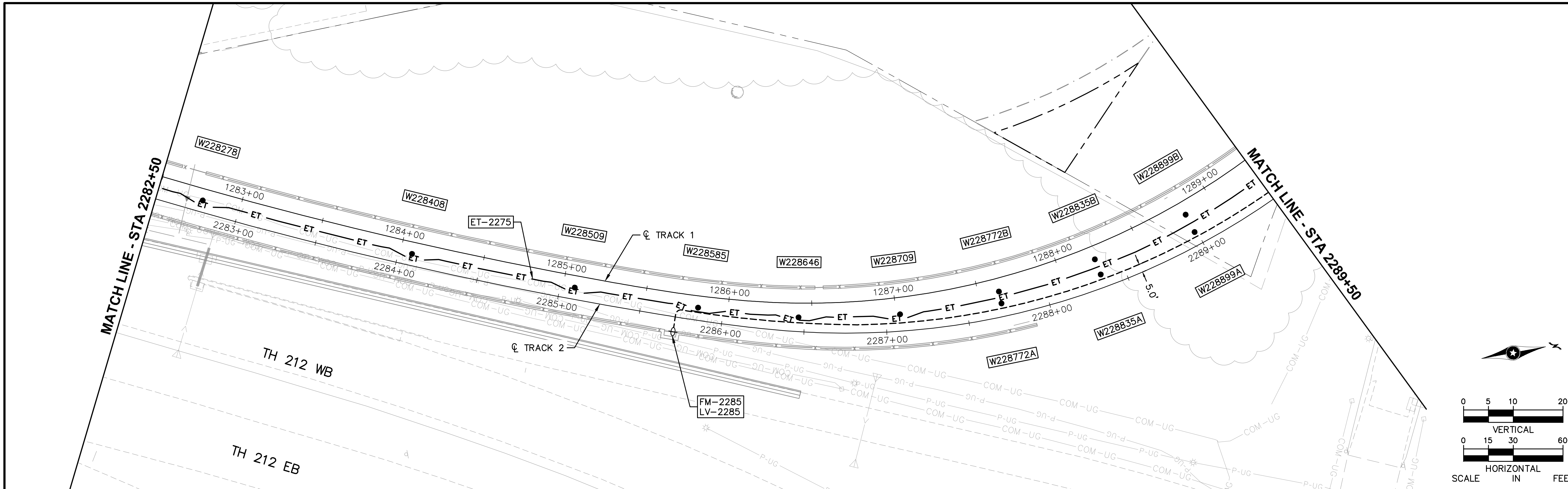
METROPOLITAN COUNCIL

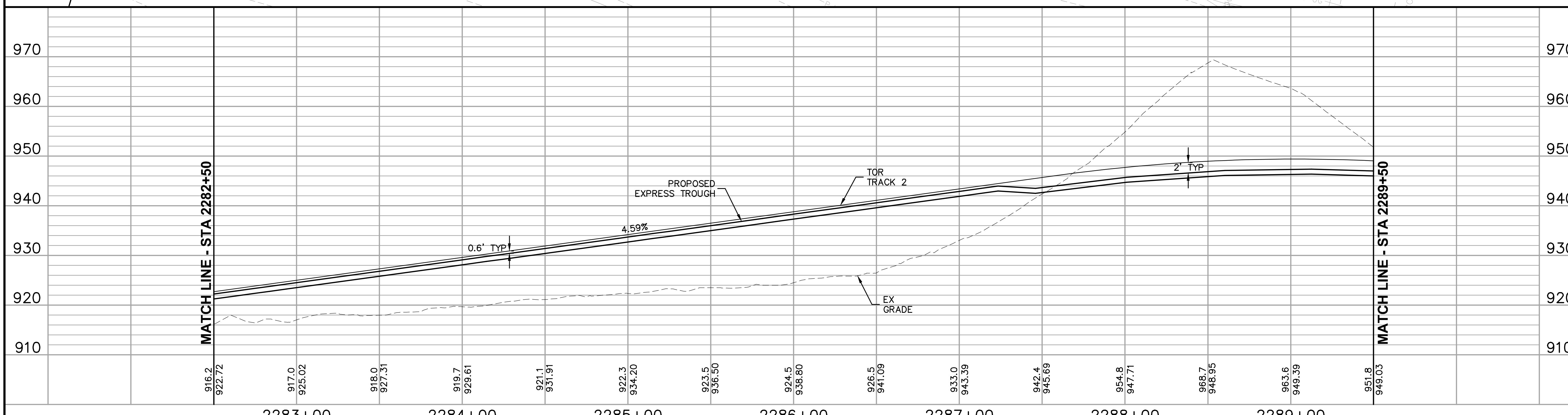
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2275+50 TO STA 2282+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-011





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2282+50 TO STA 2289+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-012

SHEET 83 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
FM-2285	2285+72	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2275	SC-MH-2275	SC-MH-2293	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
LV-2285	JB-2291	FM-2285	1-2	STU-DTL-001	LV CONDUIT

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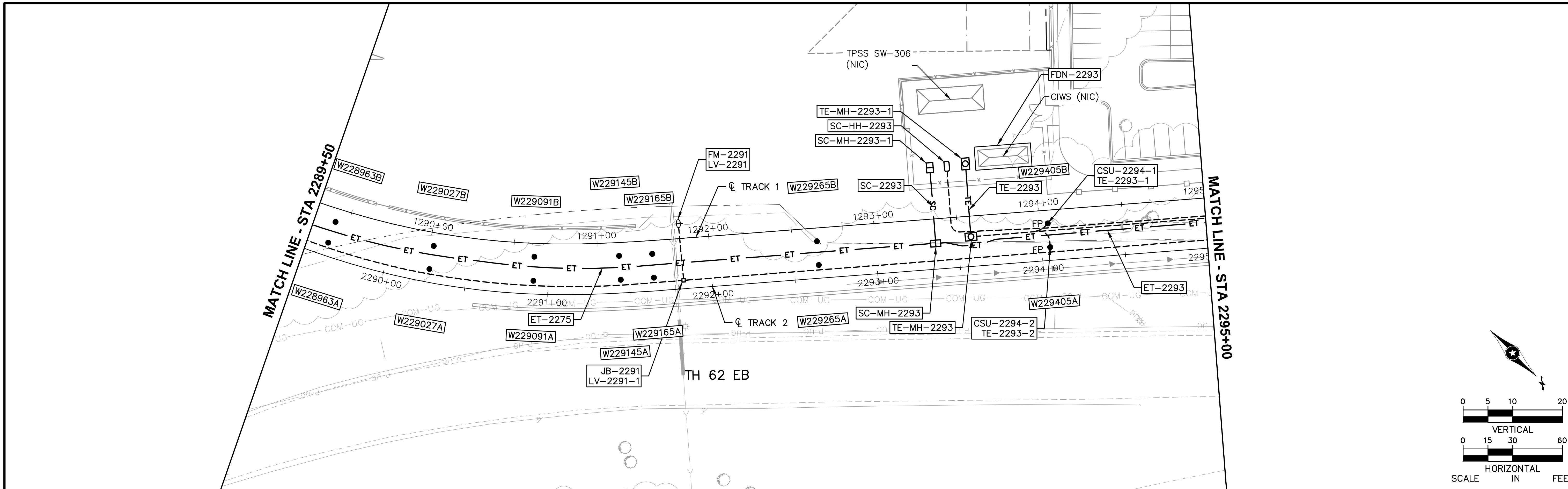
METROPOLITAN COUNCIL

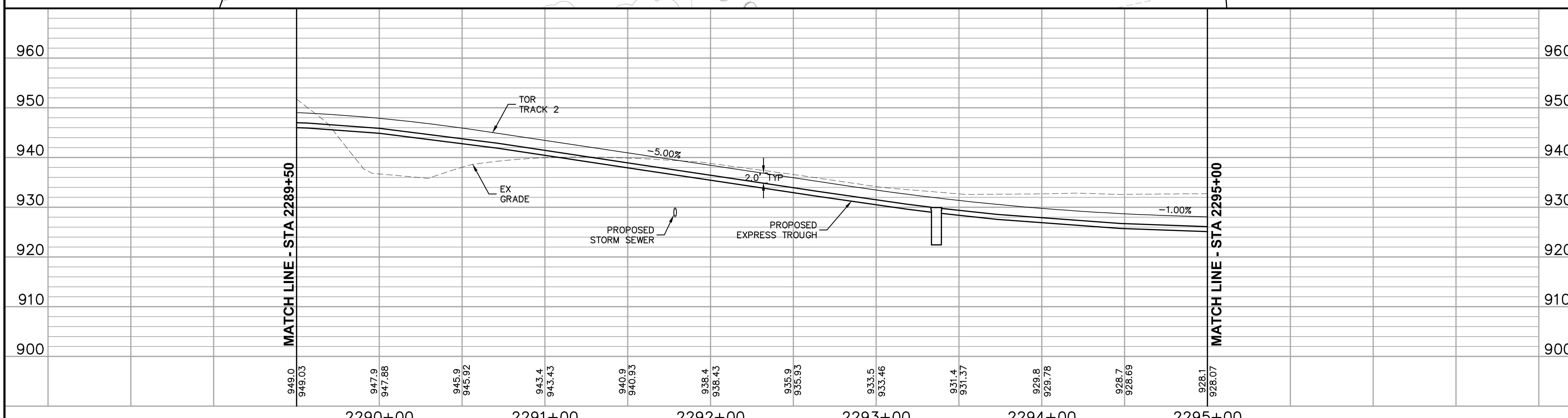
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2282+50 TO STA 2289+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-012





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2289+50 TO STA 2295+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-013

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2293	2293+36	16.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2293-1	2293+36	61.0' L	SWE-DTL-003	SC MANHOLE
SC-HH-2293	2293+47	61.0' L	SWE-DTL-005	SC HANDHOLE
FDN-2293	2293+81	65.0' L	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
TE-MH-2293	2293+58	18.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2293-1	2293+58	62.0' L	SWE-DTL-002	TE MANHOLE
CSU-2294-1	2294+02	22.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2294-2	2294+02	8.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
FM-2291	2291+82	39.4' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP
JB-2291	2291+82	7.0' L		SC JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2275	SC-MH-2275	SC-MH-2293	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2293	SC-MH-2293	SC-MH-2295	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2293	SC-MH-2293	SC-MH-2293-1	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
TE-2293	TE-MH-2293	TE-MH-2293-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2293-1	TE-MH-2293	CSU-2294-1	2-4	STU-DTL-002	TE CONDUIT
TE-2293-2	TE-MH-2293	CSU-2294-2	2-4	STU-DTL-002	TE CONDUIT
LV-2291	JB-2291	FM-2291	1-2	STU-DTL-001	LV CONDUIT
LV-2291-1	JB-2291	CSU-2297	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

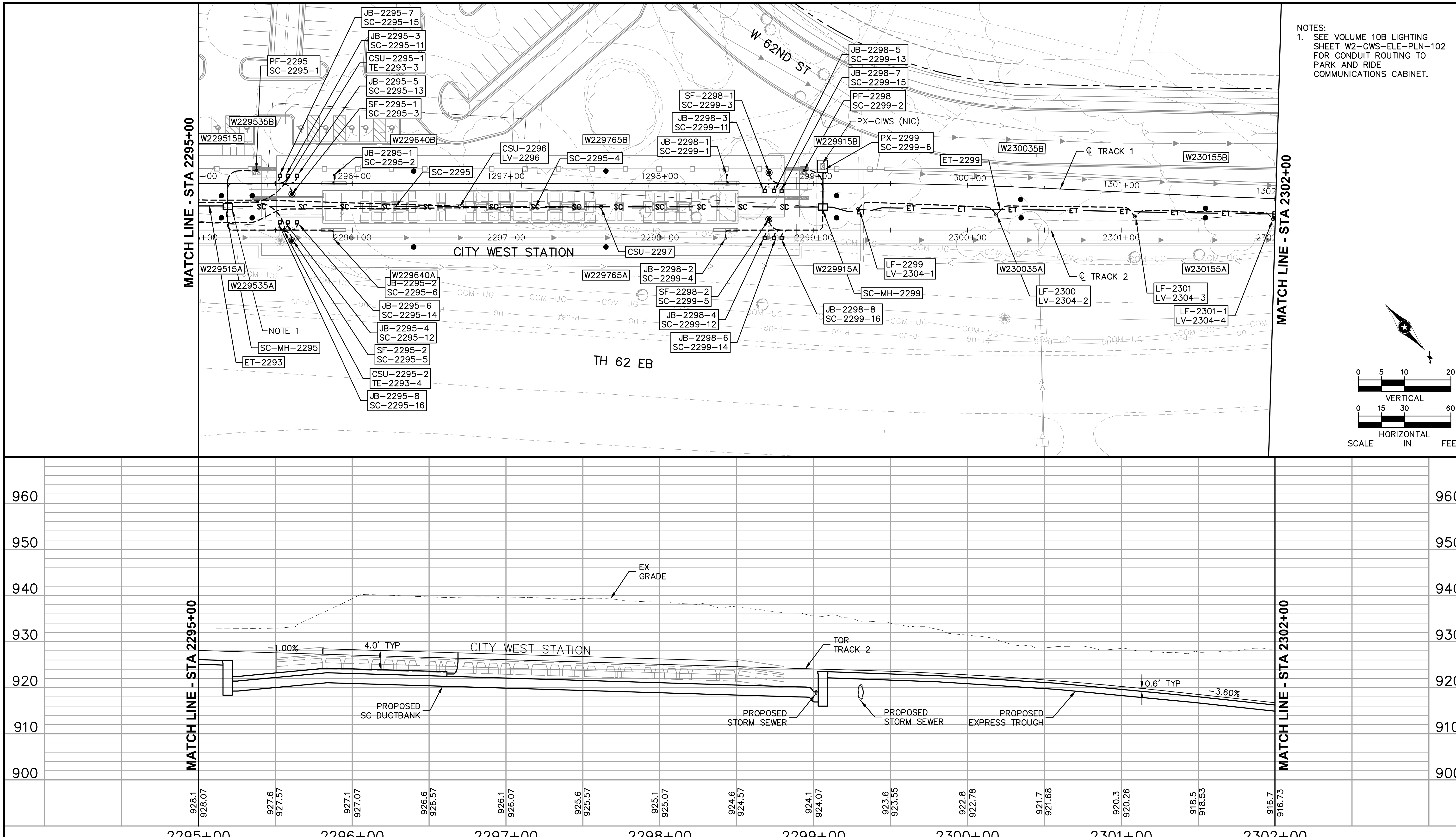
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2289+50 TO STA 2295+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-013



NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-CWS-ELE-PLN-102 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2295+00 TO STA 2302+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-014

SHEET 87 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2295	2295+19	15.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2299	2299+06	15.0' L	SWE-DTL-003	SC MANHOLE
JB-2295-1	2295+88	33.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2295-2	2295+88	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2295-3	2295+58	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2295-4	2295+58	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2295-5	2295+64	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2295-6	2295+64	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2295-7	2295+53	35.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2295-8	2295+53	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2298-1	2298+43	33.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2298-2	2298+43	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2298-3	2298+68	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2298-4	2298+68	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2298-5	2298+74	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2298-6	2298+74	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2298-7	2298+79	25.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2298-8	2298+79	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
SF-2295-1	2295+61	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2295-2	2295+62	6.8' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2298-1	2298+71	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2298-2	2298+71	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
PF-2295	2295+38	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2298	2298+94	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PX-2299	2299+06	41.4' L	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
CSU-2296	2296+70	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2295-1	2295+56	30.4' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2295-2	2295+56	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2297	2297+62	15.0' L	3/SWE-DTL-012	ELECTRICAL CABINET CONDUIT STUB UP
LF-2299	2299+29	13.8' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2300	2300+19	10.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2301	2301+09	8.8' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2301-1	2301+98	7.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2293	SC-MH-2293	SC-MH-2295	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2299	SC-MH-2299	SC-MH-2304	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
SC-2295	SC-MH-2295	CSU-2296	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2295-4	SC-MH-2295	SC-MH-2299	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2299-6	SC-MH-2299	PX-2299	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2295-1	SC-MH-2295	PF-2295	1-4	STU-DTL-001	SC CONDUIT
SC-2295-2	SC-MH-2295	JB-2295-1	1-2	STU-DTL-001	SC CONDUIT
SC-2295-3	SC-MH-2295	SF-2295-1	1-2	STU-DTL-001	SC CONDUIT
SC-2295-5	SC-MH-2295	SF-2295-2	1-2	STU-DTL-001	SC CONDUIT
SC-2295-6	SC-MH-2295	JB-2295-2	1-2	STU-DTL-001	SC CONDUIT
SC-2295-11	SC-MH-2295	JB-2295-3	1-2	STU-DTL-001	SC CONDUIT
SC-2295-12	SC-MH-2295	JB-2295-4	1-2	STU-DTL-001	SC CONDUIT
SC-2295-13	SC-MH-2295	JB-2295-5	1-2	STU-DTL-001	SC CONDUIT
SC-2295-14	SC-MH-2295	JB-2295-6	1-2	STU-DTL-001	SC CONDUIT
SC-2295-15	SC-MH-2295	JB-2295-7	1-2	STU-DTL-001	SC CONDUIT
SC-2295-16	SC-MH-2295	JB-2295-8	1-2	STU-DTL-001	SC CONDUIT
SC-2299-1	SC-MH-2299	JB-2298-1	1-2	STU-DTL-001	SC CONDUIT
SC-2299-2	SC-MH-2299	PF-2298	1-4	STU-DTL-001	SC CONDUIT
SC-2299-3	SC-MH-2299	SF-2298-1	1-2	STU-DTL-001	SC CONDUIT
SC-2299-4	SC-MH-2299	JB-2298-2	1-2	STU-DTL-001	SC CONDUIT
SC-2299-5	SC-MH-2299	SF-2298-2	1-2	STU-DTL-001	SC CONDUIT
SC-2299-11	SC-MH-2299	JB-2298-3	1-2	STU-DTL-001	SC CONDUIT
SC-2299-12	SC-MH-2299	JB-2298-4	1-2	STU-DTL-001	SC CONDUIT
SC-2299-13	SC-MH-2299	JB-2298-5	1-2	STU-DTL-001	SC CONDUIT
SC-2299-14	SC-MH-2299	JB-2298-6	1-2	STU-DTL-001	SC CONDUIT
SC-2299-15	SC-MH-2299	JB-2298-7	1-2	STU-DTL-001	SC CONDUIT
SC-2299-16	SC-MH-2299	JB-2298-8	1-2	STU-DTL-001	SC CONDUIT
TE-2293-3	TE-MH-2293	CSU-2295-1	1-5	STU-DTL-002	TE CONDUIT
TE-2293-4	TE-MH-2293	CSU-2295-2	1-5	STU-DTL-002	TE CONDUIT
LV-2296	SC-HH-2293	CSU-2296	1-2	STU-DTL-001	LV CONDUIT
LV-2304-1	JB-2304	LF-2299	1-2	STU-DTL-001	LV CONDUIT
LV-2304-2	JB-2304	LF-2300	1-2	STU-DTL-001	LV CONDUIT
LV-2304-3	JB-2304	LF-2301	1-2	STU-DTL-001	LV CONDUIT
LV-2304-4	JB-2304	LF-2301-1	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-CWS-ELE-PLN-102 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

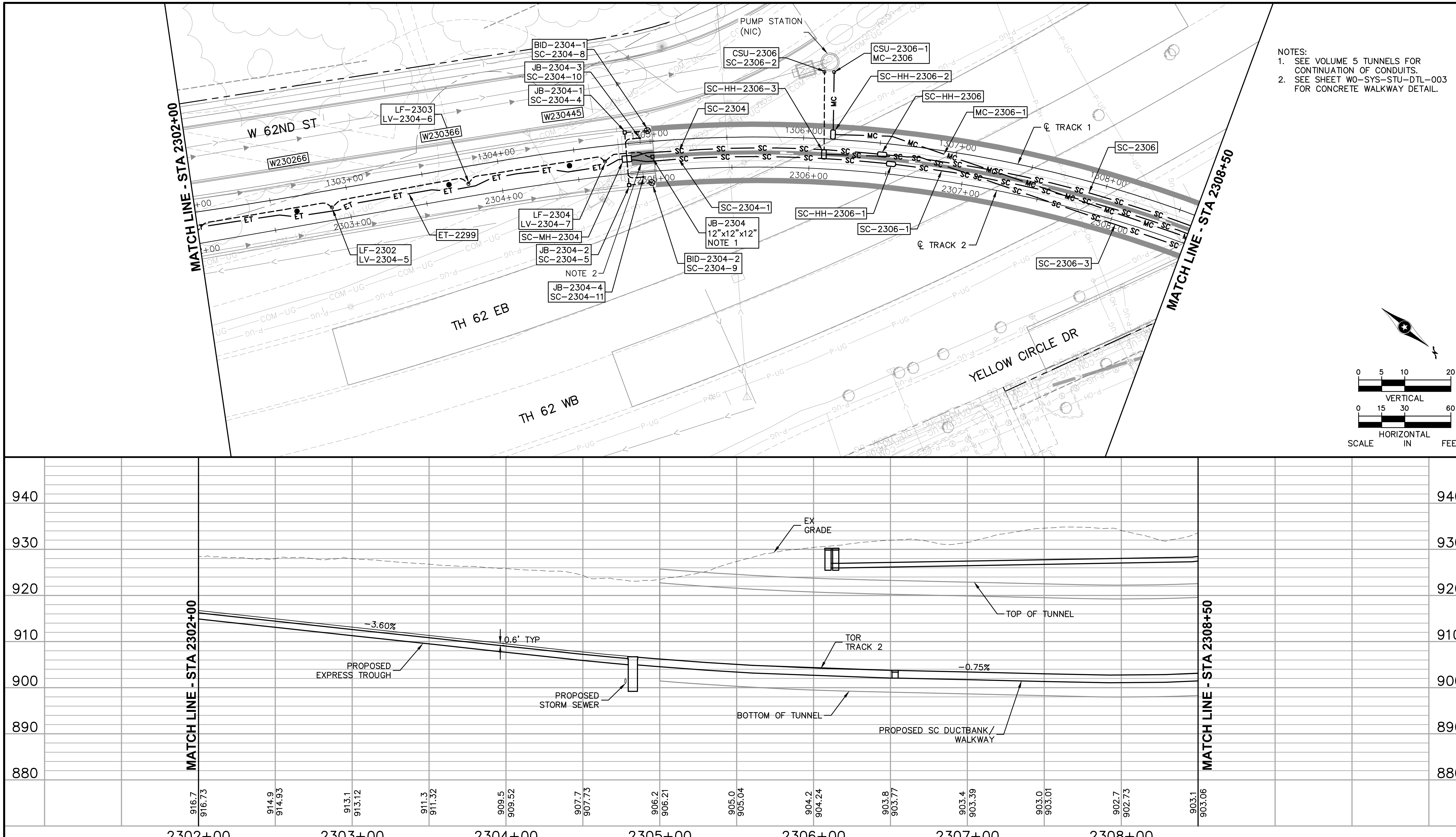
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2295+00 TO STA 2302+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-014

SHEET 88 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2302+00 TO STA 2308+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-015

SHEET 89 OF 464

Jan, 18 2016 08:23 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W2-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2304	2304+98	9.5' L	SWE-DTL-003	SC MANHOLE
SC-HH-2306	2306+46	12.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2306-1	2306+53	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2306-2	2306+14	22.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2306-3	2306+09	9.5' L	SWE-DTL-005	SC HANDHOLE
CSU-2306	2306+07	63.0' L		PUMP STATION CONDUIT STUB UP
CSU-2306-1	2306+13	63.0' L		PUMP STATION CONDUIT STUB UP
JB-2304	2304+99	9.05' L		LIGHTING JUNCTION BOX
JB-2304-1	2304+83	27.0' L	SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2304-2	2304+83	7.5' R	SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2304-3	2304+92	22.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2304-4	2304+92	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
BID-2304-1	2304+97	26.8' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2304-2	2304+97	7.2' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
LF-2302	2302+89	8.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2303	2303+79	8.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2304	2304+68	9.5' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2299	SC-MH-2299	SC-MH-2304	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
SC-2304	SC-MH-2304	SC-HH-2306	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2304-1	SC-MH-2304	SC-HH-2306-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2306	SC-MH-2306	SC-HH-2308	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2306-1	SC-MH-2306-1	SC-HH-2308-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2306-3	SC-HH2306-3	SC-HH-2309-1	2-4	SWE-DTL-010	SC DUCTBANK
SC-2304-4	SC-MH-2304	JB-2304-1	1-4	STU-DTL-001	SC CONDUIT
SC-2304-5	SC-MH-2304	JB-2304-2	1-4	STU-DTL-001	SC CONDUIT
SC-2304-8	JB-2304-1	BID-2304-3	1-2	STU-DTL-001	SC CONDUIT
SC-2304-9	JB-2304-2	BID-2304-4	1-2	STU-DTL-001	SC CONDUIT
SC-2304-10	SC-MH-2304	JB-2304-3	1-2	STU-DTL-001	SC CONDUIT
SC-2304-11	SC-MH-2304	JB-2304-4	1-2	STU-DTL-001	SC CONDUIT
SC-2306-2	SC-HH-2306-3	CSU-2306	2-4	STU-DTL-001	SC CONDUIT
MC-2306	SC-HH-2306-2	CSU-2306-1	2-4	2/STU-DTL-002	MC DUCTBANK
MC-2306-1	SC-HH-2306-2	SC-HH-2309-4	2-4	2/STU-DTL-002	MC DUCTBANK
LV-2305	JB-2305-2	SC-MH-2304	1-2	STU-DTL-001	LV CONDUIT
LV-2304-5	JB-2304	LF-2302	1-1	STU-DTL-001	LV CONDUIT
LV-2304-6	JB-2304	LF-2303	1-1	STU-DTL-001	LV CONDUIT
LV-2304-7	JB-2304	LF-2304	1-1	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2302+00 TO STA 2308+50

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-015

SHEET 90 OF 464

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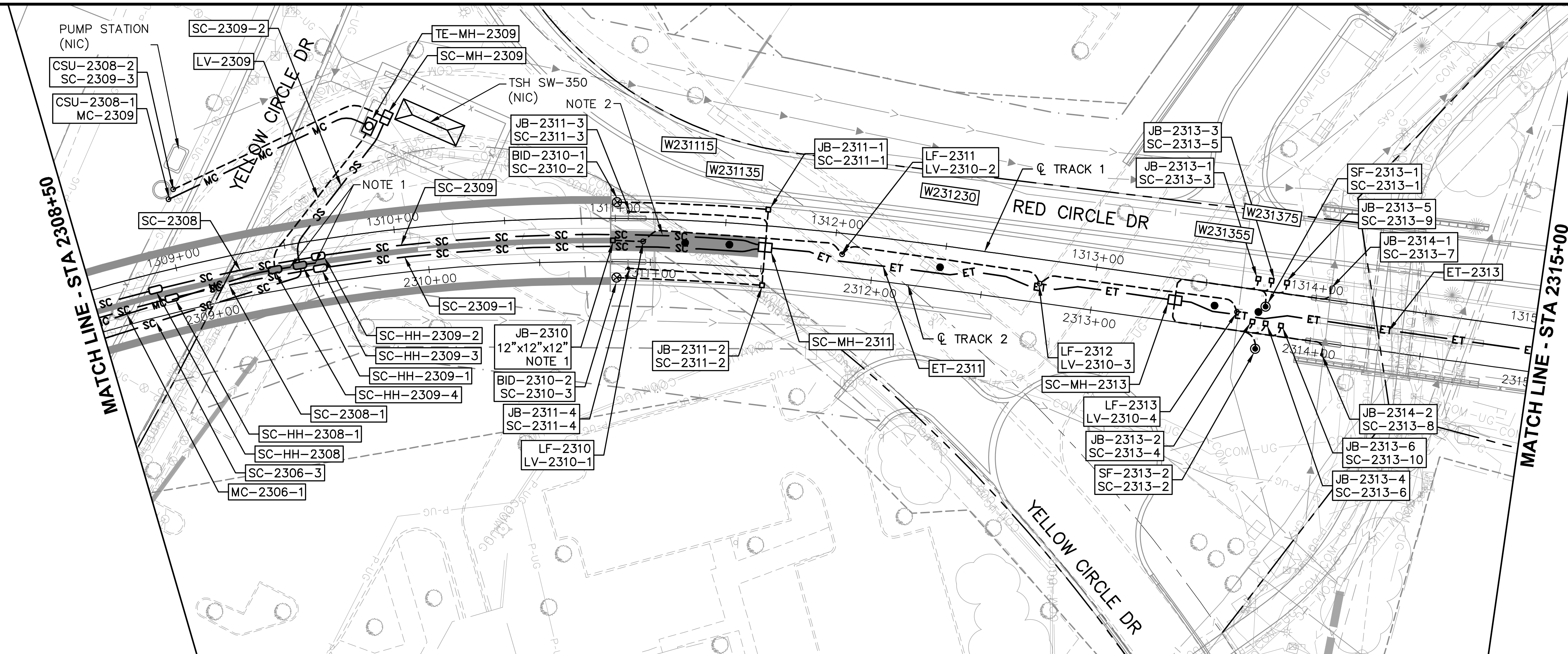
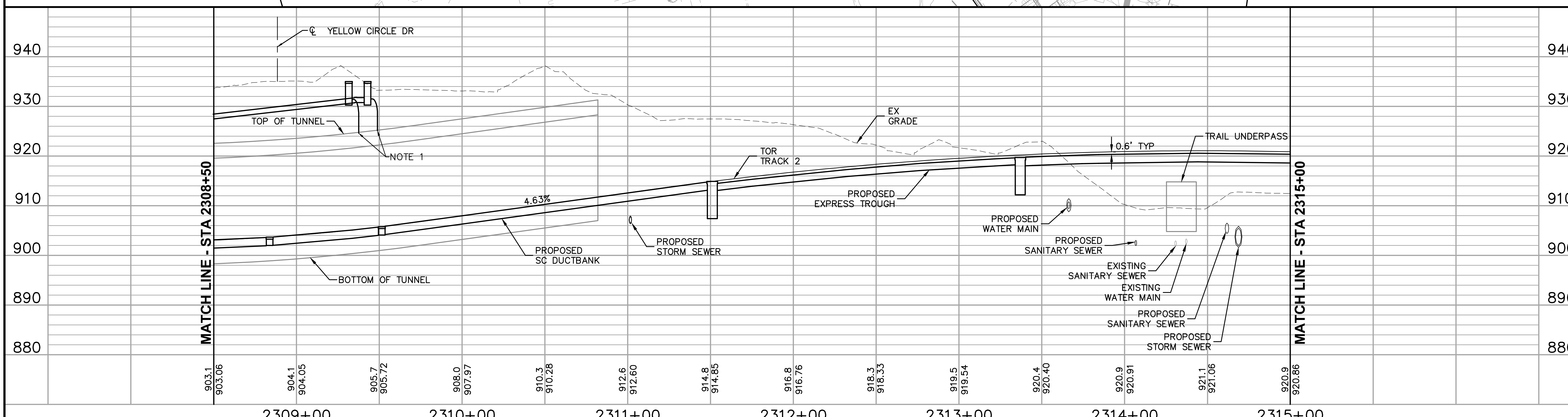


NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.
2. SEE SHEET W0-SYS-STU-DTL-003 FOR CONCRETE WALKWAY DETAIL.

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2308+50 TO STA 2315+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-016

SHEET 91 OF 464

Jan, 18 2016 08:24 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W2-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2309	2309+88	70.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2311	2311+52	9.8' L	SWE-DTL-003	SC MANHOLE
SC-MH-2313	2313+37	9.8' L	SWE-DTL-003	SC MANHOLE
SC-HH-2308	2308+77	12.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2308-1	2308+84	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2309-1	2309+42	9.6' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2309-2	2309+52	12.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2309-3	2309+52	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2309-4	2309+32	9.6' L	SWE-DTL-005	SC HANDHOLE
JB-2310	2310+83	9.0' L		LIGHTING JUNCTION BOX
JB-2311-1	2311+51	27.0' L	SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2311-2	2311+51	7.4' R	SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2311-3	2310+90	22.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2311-4	2310+90	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2313-1	2313+73	24.5' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2313-2	231+73	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2313-3	2313+79	24.5' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2313-4	2313+79	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2313-5	2313+86	24.5' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2313-6	2313+86	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2314-1	2314+08	16.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2314-2	2314+08	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
CSU-2308-1	2308+93	45.0' L		PUMP STATION CONDUIT STUB UP
CSU-2308-2	2308+94	48.0' L		PUMP STATION CONDUIT STUB UP
SF-2213-1	2313+78	12.2' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2213-2	2313+72	7.2' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
TE-MH-2309	2309+81	67.0' L	SWE-DTL-002	TE MANHOLE
BID-2310-1	2310+85	26.8' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2310-2	2310+85	6.0' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
LF-2310	2310+97	9.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2311	2311+86	10.0' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2312	2312+75	8.5' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP
LF-2313	2313+66	8.5' L	W2-SYS-STU-DTL-001	LIGHTING FOUNDATION AND CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2311	SC-MH-2311	SC-MH-2313	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
ET-2313	SC-MH-2313	SC-MH-2316	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2308	SC-HH-2308	SC-HH-2309	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2308-1	SC-HH-2308-1	SC-HH-2309-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2309	SC-HH-2309-2	SC-MH-2311	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2309-1	SC-HH-2309-3	SC-MH-2311	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2306-3	SC-HH-2306-3	SC-HH-2309-1	2-4	SWE-DTL-010	SC DUCTBANK
SC-2309-2	SC-MH-2309	SC-HH-2309-1	6-4	3/SWE-DTL-010	SC DUCTBANK
SC-2309-3	SC-MH-2309	CSU-2308-2	4-2	STU-DTL-001	SC CONDUIT
SC-2310-2	JB-2311-1	BID-2310-1	1-2	STU-DTL-001	SC CONDUIT
SC-2310-3	JB-2311-2	BID-2310-2	1-2	STU-DTL-001	SC CONDUIT
SC-2311-1	SC-MH-2311	JB-2311-1	1-4	STU-DTL-001	SC CONDUIT
SC-2311-2	SC-MH-2311	JB-2311-2	1-4	STU-DTL-001	SC CONDUIT
SC-2311-3	SC-MH-2311	JB-2311-3	1-2	STU-DTL-001	SC CONDUIT
SC-2311-4	SC-MH-2311	JB-2311-4	1-2	STU-DTL-001	SC CONDUIT
SC-2313-1	SC-MH-2313	SF-2313-1	1-2	STU-DTL-001	SC CONDUIT
SC-2313-2	SC-MH-2313	SF-2313-2	1-2	STU-DTL-001	SC CONDUIT
SC-2313-3	SC-MH-2313	JB-2313-1	1-2	STU-DTL-001	SC CONDUIT
SC-2313-4	SC-MH-2313	JB-2313-2	1-2	STU-DTL-001	SC CONDUIT
SC-2313-5	SC-MH-2313	JB-2313-3	1-2	STU-DTL-001	SC CONDUIT
SC-2313-6	SC-MH-2313	JB-2313-4	1-2	STU-DTL-001	SC CONDUIT
SC-2313-7	SC-MH-2313	JB-2314-1	1-2	STU-DTL-001	SC CONDUIT
SC-2313-8	SC-MH-2313	JB-2314-2	1-2	STU-DTL-001	SC CONDUIT
SC-2313-9	SC-MH-2313	JB-2313-5	1-2	STU-DTL-001	SC CONDUIT
SC-2313-10	SC-MH-2313	JB-2313-6	1-2	STU-DTL-001	SC CONDUIT
MC-2306-1	SC-HH-2306-2	SC-HH-2309-4	2-4	2/STU-DTL-002	MC DUCTBANK
MC-2309	TE-MH-2309	CSU-2308-1	2-4	2/STU-DTL-002	MC DUCTBANK
LV-2309	TE-MH-2309	SC-HH-2309-4	4-4	STU-DTL-001	LV CONDUIT
LV-2310-1	JB-2310	LF-2310	1-1	STU-DTL-001	LV CONDUIT
LV-2310-2	JB-2310	LF-2311	1-1	STU-DTL-001	LV CONDUIT
LV-2310-3	JB-2310	LF-2312	1-1	STU-DTL-001	LV CONDUIT
LV-2310-4	JB-2310	LF-2313	1-1	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

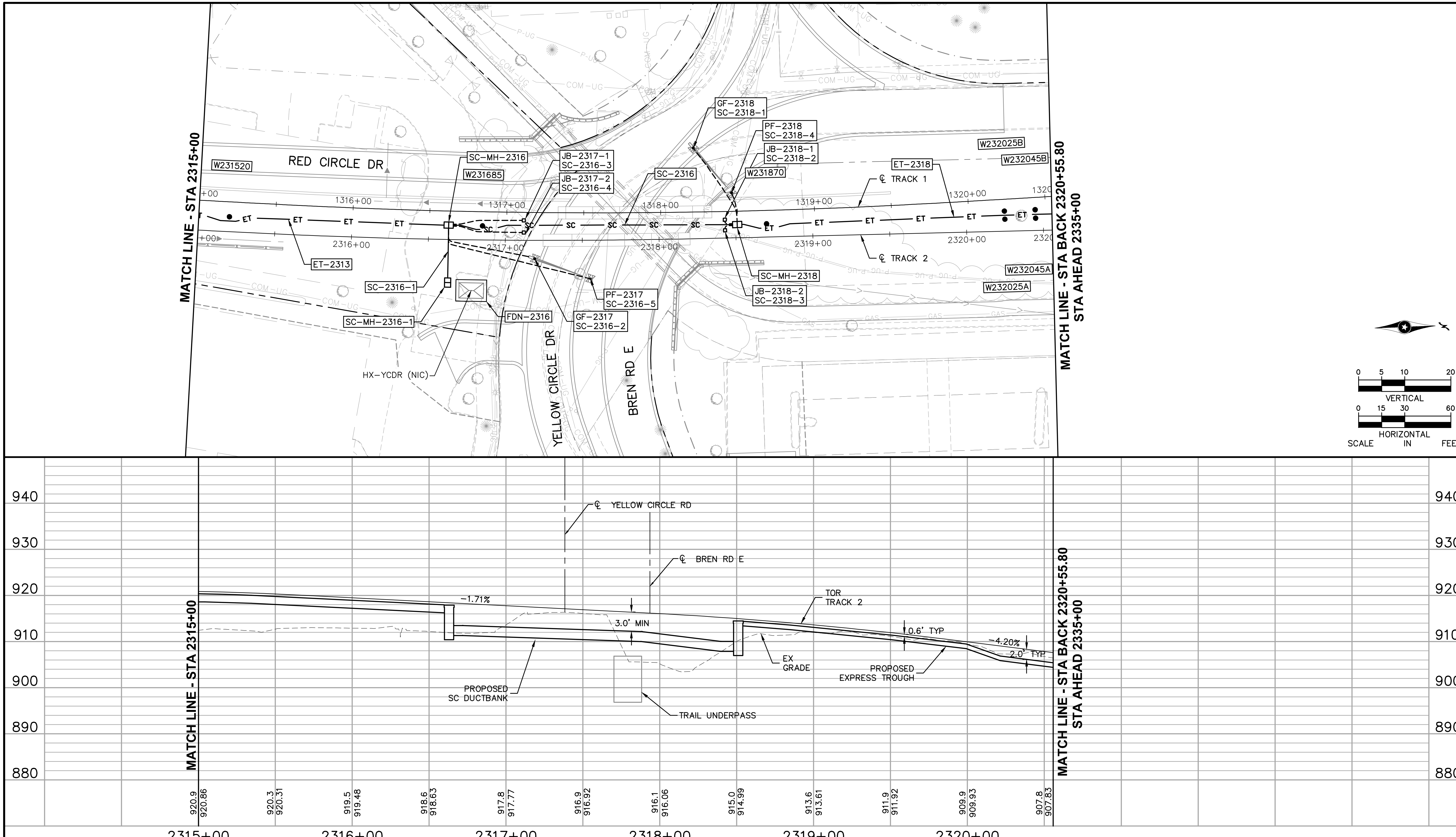
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2308+50 TO STA 2315+00

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-016



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2315+00 TO STA 2320+55.80

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-PRF-017

SHEET 93 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2316	2316+63	9.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2316-1	2316+63	27.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2318	2318+51	8.7' L	SWE-DTL-003	SC MANHOLE
FDN-2316	2316+78	33.0' R	SWE-DTL-SIG-012	SC HOUSE FOUNDATION
GF-2317	2317+19	12.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2318	2318+18	55.0' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2317	2317+55	25.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2318	2318+48	29.0' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2317-1	2317+12	13.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2317-2	2317+12	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2318-1	2318+43	12.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2318-2	2318+43	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2313	SC-MH-2313	SC-MH-2316	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2318	SC-MH-2318	SC-MH-2339	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2316	SC-MH-2316	SC-MH-2318	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2316-1	SC-MH-2316	SC-MH-2316-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2316-2	SC-MH-2316	GF-2317	1-4	STU-DTL-001	SC CONDUIT
SC-2316-3	SC-MH-2316	JB-2317-1	1-2	STU-DTL-001	SC CONDUIT
SC-2316-4	SC-MH-2316	JB-2317-2	1-2	STU-DTL-001	SC CONDUIT
SC-2316-5	SC-MH-2316	PF-2317	1-4	STU-DTL-001	SC CONDUIT
SC-2318-1	SC-MH-2318	GF-2318	1-4	STU-DTL-001	SC CONDUIT
SC-2318-2	SC-MH-2318	JB-2318-1	1-2	STU-DTL-001	SC CONDUIT
SC-2318-3	SC-MH-2318	JB-2318-2	1-2	STU-DTL-001	SC CONDUIT
SC-2318-4	SC-MH-2318	PF-2318	1-4	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

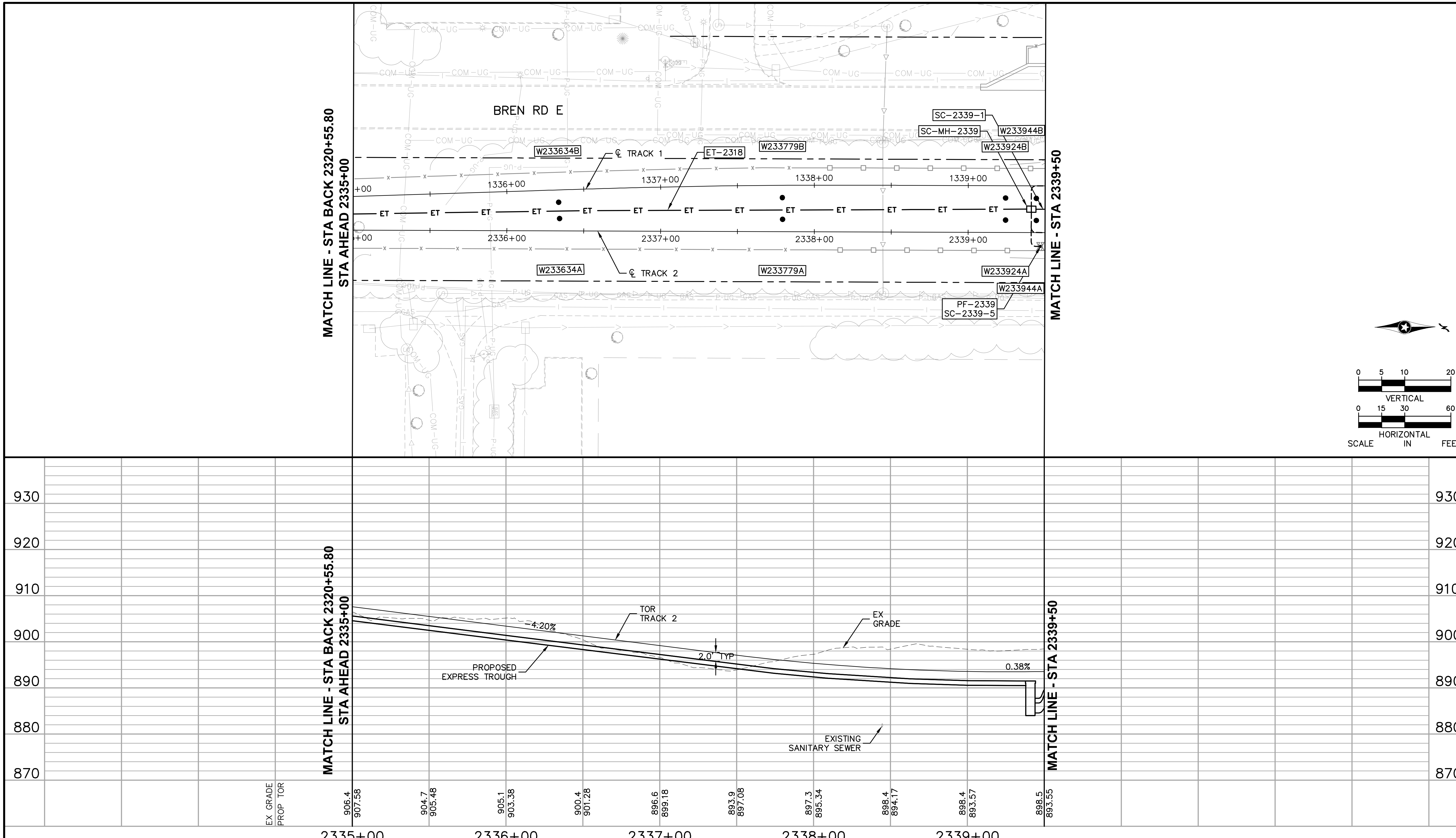
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2315+00 TO STA 2320+55.80

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SCH-017



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2335+00 TO STA 2339+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-001

SHEET 95 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2339	2339+41	15.2' L	SWE-DTL-003	SC MANHOLE
PF-2339	2339+47	9.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2318	SC-MH-2318	SC-MH-2339	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2339-1	SC-MH-2339	CSU-2340	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2339-5	SC-MH-2339	PF-2339	1-4	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

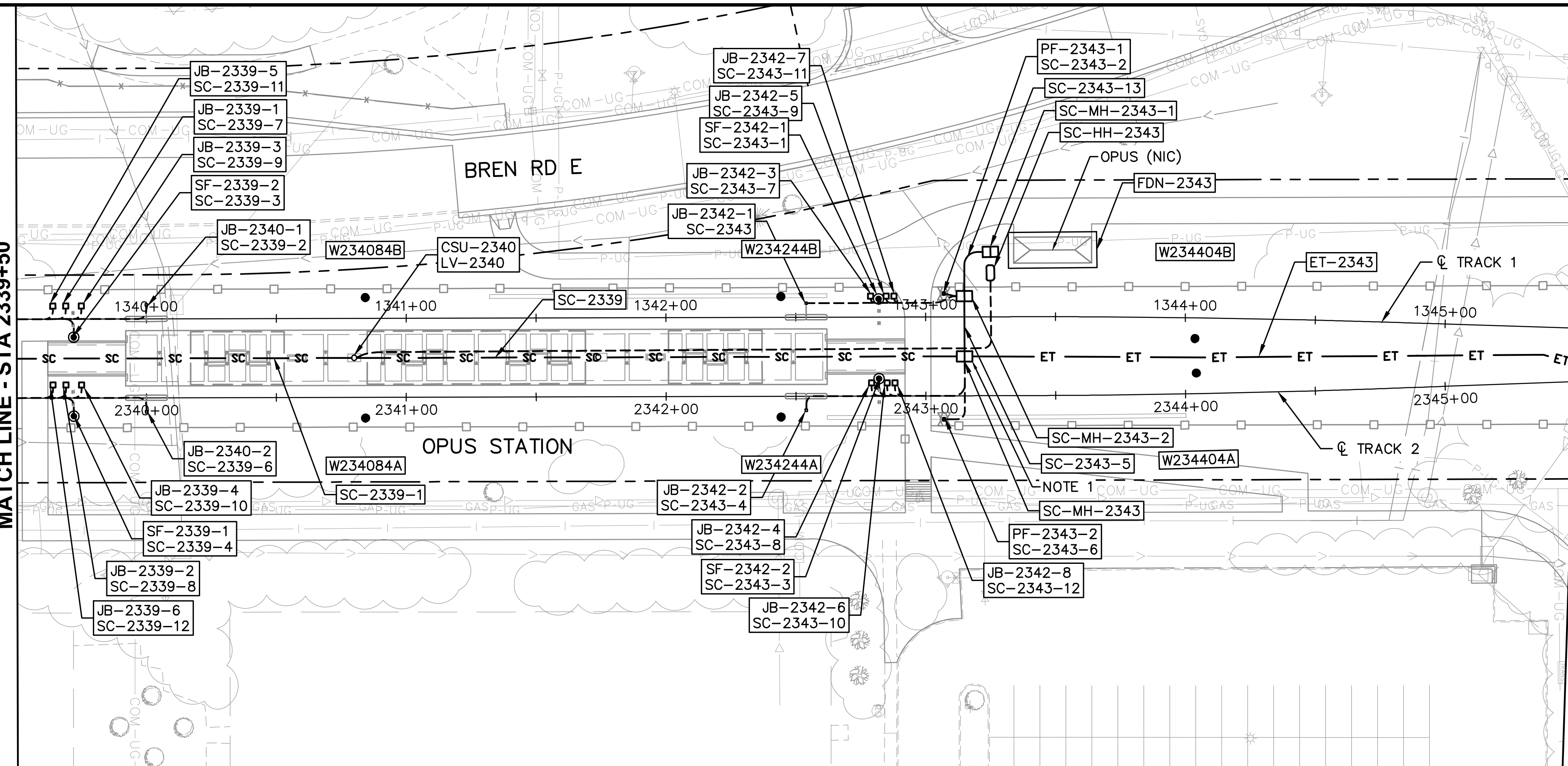
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2335+00 TO STA 2339+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-001

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-OPS-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.



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VERTICAL: 0 5 10 20

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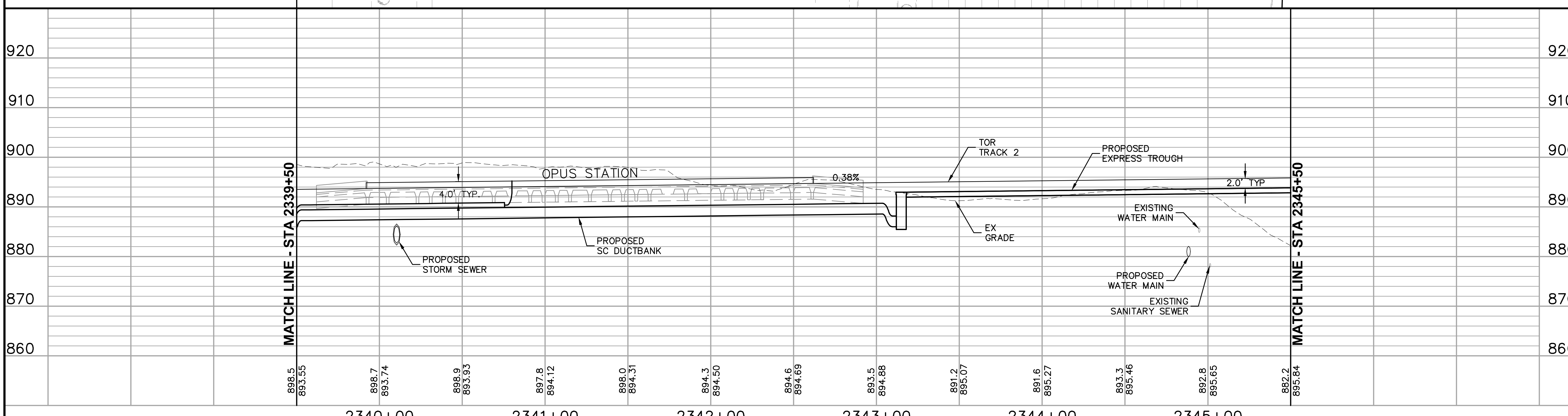

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2339+50 TO STA 2345+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-002

SHEET 97 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2343	2343+15	15.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2343-1	2343+25	55.4' L	SWE-DTL-003	SC MANHOLE
SC-MH-2343-2	2343+15	38.0' L	SWE-DTL-003	SC MANHOLE
SC-HH-2343	2343+25	47.0' L	SWE-DTL-005	SC HANDHOLE
FDN-2343	2343+600	49.2' L	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
CSU-2340	2340+80	15.1' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
SF-2339-1	2339+72	7.2' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2339-2	2339+72	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2342-1	2342+82	30.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2342-2	2342+82	0.00	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
PF-2343-1	2343+07	39.4' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2343-2	2343+07	8.9' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2339-1	2339+69	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2339-2	2339+69	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2339-3	2339+75	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2339-4	2339+75	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2339-5	2339+64	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2339-6	2339+64	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2340-1	2340+00	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2340-2	2340+00	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2342-1	2342+54	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2342-2	2342+54	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2342-3	2342+79	38.5' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2342-4	2342+79	5.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2342-5	2342+85	38.5' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2342-6	2342+85	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2342-7	2342+88	38.5' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2342-8	2342+88	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
SC-2339	SC-MH-2339	SC-MH-2343	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2339-1	SC-MH-2339	CSU-2340	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2343-5	SC-MH-2343-2	SC-MH-2343	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2343-13	SC-MH-2343-2	SC-MH-2343-1	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2339-2	SC-MH-2339	JB-2340-1	1-2	STU-DTL-001	SC CONDUIT
SC-2339-3	SC-MH-2339	SF-2339-2	1-2	STU-DTL-001	SC CONDUIT
SC-2339-4	SC-MH-2339	SF-2339-1	1-2	STU-DTL-001	SC CONDUIT
SC-2339-6	SC-MH-2339	JB-2340-2	1-2	STU-DTL-001	SC CONDUIT
SC-2339-7	SC-MH-2339	JB-2339-1	1-2	STU-DTL-001	SC CONDUIT
SC-2339-8	SC-MH-2339	JB-2339-2	1-2	STU-DTL-001	SC CONDUIT
SC-2339-9	SC-MH-2339	JB-2339-3	1-2	STU-DTL-001	SC CONDUIT
SC-2339-10	SC-MH-2339	JB-2339-4	1-2	STU-DTL-001	SC CONDUIT
SC-2339-11	SC-MH-2339	JB-2339-5	1-2	STU-DTL-001	SC CONDUIT
SC-2339-12	SC-MH-2339	JB-2339-6	1-2	STU-DTL-001	SC CONDUIT
SC-2343	SC-MH-2343-2	JB-2342-1	1-2	STU-DTL-001	SC CONDUIT
SC-2343-1	SC-MH-2343-2	SF-2342-1	1-2	STU-DTL-001	SC CONDUIT
SC-2343-2	SC-MH-2343-2	PF-2343-1	1-4	STU-DTL-001	SC CONDUIT
SC-2343-3	SC-MH-2343	SF-2342-2	1-2	STU-DTL-001	SC CONDUIT
SC-2343-4	SC-MH-2343	JB-2342-2	1-2	STU-DTL-001	SC CONDUIT
SC-2343-6	SC-MH-2343	PF-2343-2	1-4	STU-DTL-001	SC CONDUIT
SC-2343-7	SC-MH-2343-2	JB-2342-3	1-2	STU-DTL-001	SC CONDUIT
SC-2343-8	SC-MH-2343	JB-2342-4	1-2	STU-DTL-001	SC CONDUIT
SC-2343-9	SC-MH-2343-2	JB-2342-5	1-2	STU-DTL-001	SC CONDUIT
SC-2343-10	SC-MH-2343	JB-2342-6	1-2	STU-DTL-001	SC CONDUIT
SC-2343-11	SC-MH-2343-2	JB-2342-7	1-2	STU-DTL-001	SC CONDUIT
SC-2343-12	SC-MH-2343	JB-2342-8	1-2	STU-DTL-001	SC CONDUIT
ET-2343	SC-MH-2343	SC-MH-2345	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
LV-2340	SC-HH-2343	CSU-2340	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-OPS-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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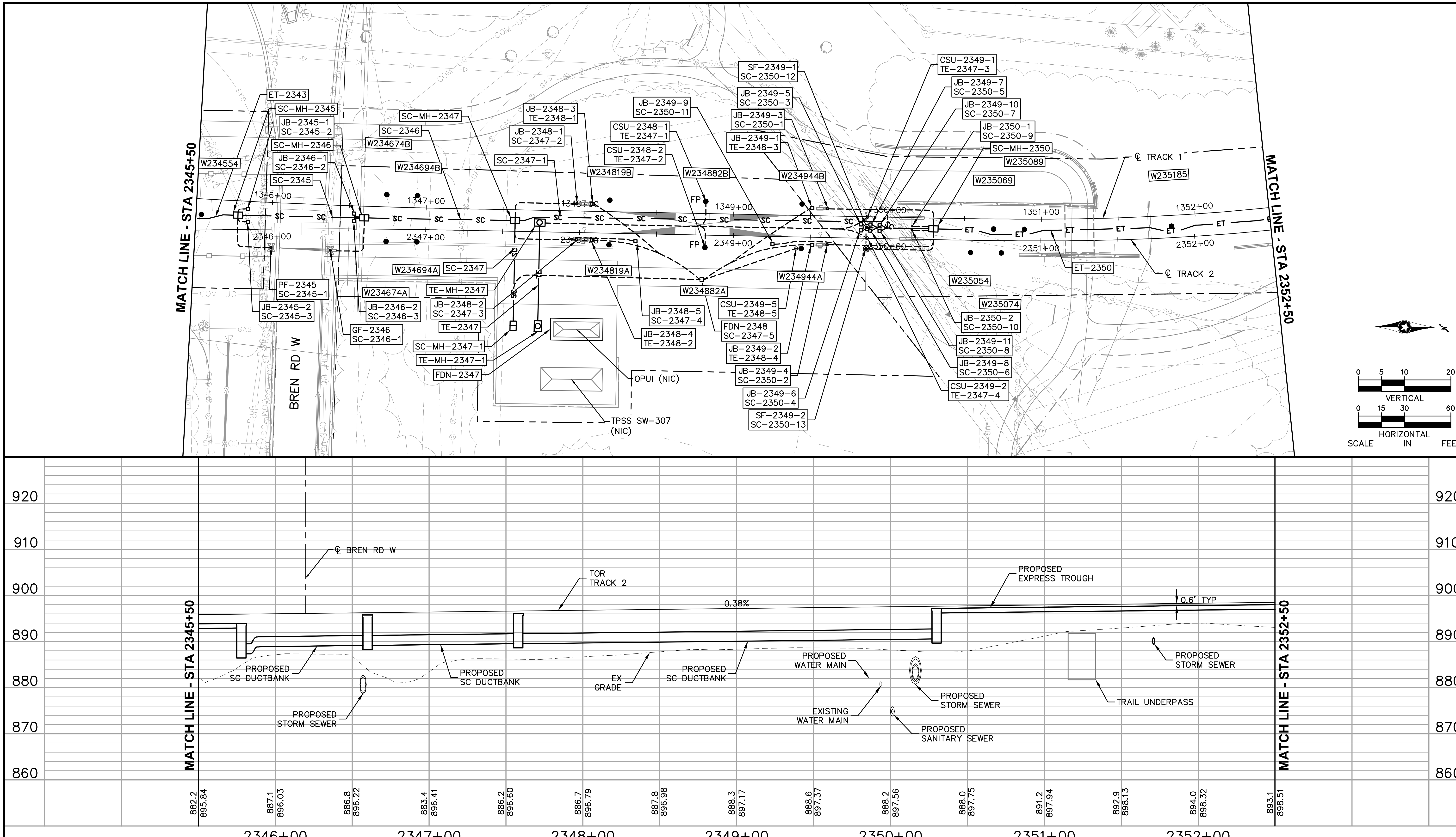
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2339+50 TO STA 2345+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-002



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2345+50 TO STA 2352+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-003

SHEET 99 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2345	2345+78	9.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2346	234+60	7.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2347	2347+58	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2347-1	2347+58	61.4' R	SWE-DTL-003	SC MANHOLE
SC-MH-2350	2350+30	7.0' R	SWE-DTL-003	SC MANHOLE
TE-MH-2347	2347+93	7.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2347-1	2347+93	73.4' R	SWE-DTL-002	TE MANHOLE
FDN-2347	2347+82	64.0' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
FDN-2348	2348+80	7.9' R	SWE-DTL-SIG-016	SWITCH HEATER FOUNDATION AND STUB UP
GF-2346	2346+38	14.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2345	2345+99	12.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
CSU-2348-1	2348+79	22.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2348-2	2348+78	7.9' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2349-1	2349+87	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2349-2	2349+87		4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2349-5	2349+41	7.5' R	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP
JB-2345-1	2345+84	13.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2345-2	2345+84	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2346-1	2346+53	10.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2346-2	2346+53	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2348-1	2347+98	18.8' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2348-2	2347+98	4.7' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2348-3	2348+08	18.9' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2348-4	2348+08	4.9' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2348-5	2348+36	5.0' R	SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2349-1	2349+51	18.9' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2349-2	2349+51	4.9' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2349-3	2349+61	18.7' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2349-4	2349+61	4.8' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2349-5	2349+83	9.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2349-6	2349+83	5.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2349-7	2349+89	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2349-8	2349+89	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2349-9	2349+26	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2349-10	2349+95	9.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2349-11	2349+95	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2350-1	2350+16	8.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2350-2	2350+16	5.9' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
SF-2349-1	2349+86	6.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2349-2	2349+86	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2343	SC-MH-2343	SC-MH-2345	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2350	SC-MH-2350-1	SC-MH-2377	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2345	SC-MH-2345	SC-MH-2346	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2346	SC-MH-2346	SC-MH-2347	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2347	SC-MH-2347	SC-MH-2347-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2347-1	SC-MH-2347	SC-MH-2350-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2345-1	SC-MH-2345	PF-2345	1-4	STU-DTL-001	SC CONDUIT
SC-2345-2	SC-MH-2345	JB-2345-1	1-2	STU-DTL-001	SC CONDUIT
SC-2345-3	SC-MH-2345	JB-2345-2	1-2	STU-DTL-001	SC CONDUIT
SC-2346-1	SC-MH-2346	GF-2346	1-4	STU-DTL-001	SC CONDUIT
SC-2346-2	SC-MH-2346	JB-2346-1	1-2	STU-DTL-001	SC CONDUIT
SC-2346-3	SC-MH-2346	JB-2346-2	1-2	STU-DTL-001	SC CONDUIT
SC-2347-2	SC-MH-2347	JB-2348-1	1-3	STU-DTL-001	SC CONDUIT
SC-2347-3	SC-MH-2347	JB-2348-2	1-3	STU-DTL-001	SC CONDUIT
SC-2347-4	SC-MH-2347	JB-2348-5	1-2	STU-DTL-001	SC CONDUIT
SC-2347-5	SC-MH-2347	FDN-2348	4-2	STU-DTL-001	
SC-2350-1	SC-MH-2347	JB-2349-3	1-3	STU-DTL-001	SC CONDUIT
SC-2350-2	SC-MH-2347	JB-2349-4	1-3	STU-DTL-001	SC CONDUIT
SC-2350-3	SC-MH-2347	JB-2349-5	1-2	STU-DTL-001	SC CONDUIT
SC-2350-4	SC-MH-2347	JB-2349-6	1-2	STU-DTL-001	SC CONDUIT
SC-2350-5	SC-MH-2347	JB-2349-7	1-2	STU-DTL-001	SC CONDUIT
SC-2350-6	SC-MH-2347	JB-2349-8	1-2	STU-DTL-001	SC CONDUIT
SC-2350-7	SC-MH-2347	JB-2349-10	1-2	STU-DTL-001	SC CONDUIT
SC-2350-8	SC-MH-2347	JB-2349-11	1-2	STU-DTL-001	SC CONDUIT
SC-2350-9	SC-MH-2347	JB-2350-1	1-2	STU-DTL-001	SC CONDUIT
SC-2350-10	SC-MH-2347	JB-2350-2	1-2	STU-DTL-001	SC CONDUIT
SC-2350-11	SC-MH-2347	JB-2349-9	1-2	STU-DTL-001	SC CONDUIT
SC-2350-12	SC-MH-2350	SF-2349-1	1-2	STU-DTL-001	SC CONDUIT
SC-2350-13	SC-MH-2350	SF-2349-1	1-2	STU-DTL-001	SC CONDUIT
TE-2347	TE-MH-2347	TE-MH-2347-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2347-1	TE-MH-2347	CSU-2348-1	2-4	STU-DTL-002	TE CONDUIT
TE-2347-2	TE-MH-2347	CSU-2348-2	2-4	STU-DTL-002	TE CONDUIT
TE-2347-3	TE-MH-2347	CSU-2349-1	1-5	STU-DTL-002	TE CONDUIT
TE-2347-4	TE-MH-2347	CSU-2349-2	1-5	STU-DTL-002	TE CONDUIT
TE-2348-1	FDN-2348	JB-2348-3	1-2	STU-DTL-002	TE CONDUIT
TE-2348-2	FDN-2348	JB-2348-4	1-2	STU-DTL-002	TE CONDUIT
TE-2348-3	FDN-2348	JB-2349-1	1-2	STU-DTL-002	TE CONDUIT
TE-2348-4	FDN-2348	JB-2349-2	1-2	STU-DTL-002	TE CONDUIT
TE-2348-5	FDN-2348	CSU-2349-5	1-4	STU-DTL-002	TE CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2345+50 TO STA 2352+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-003

SHEET 100 OF 464

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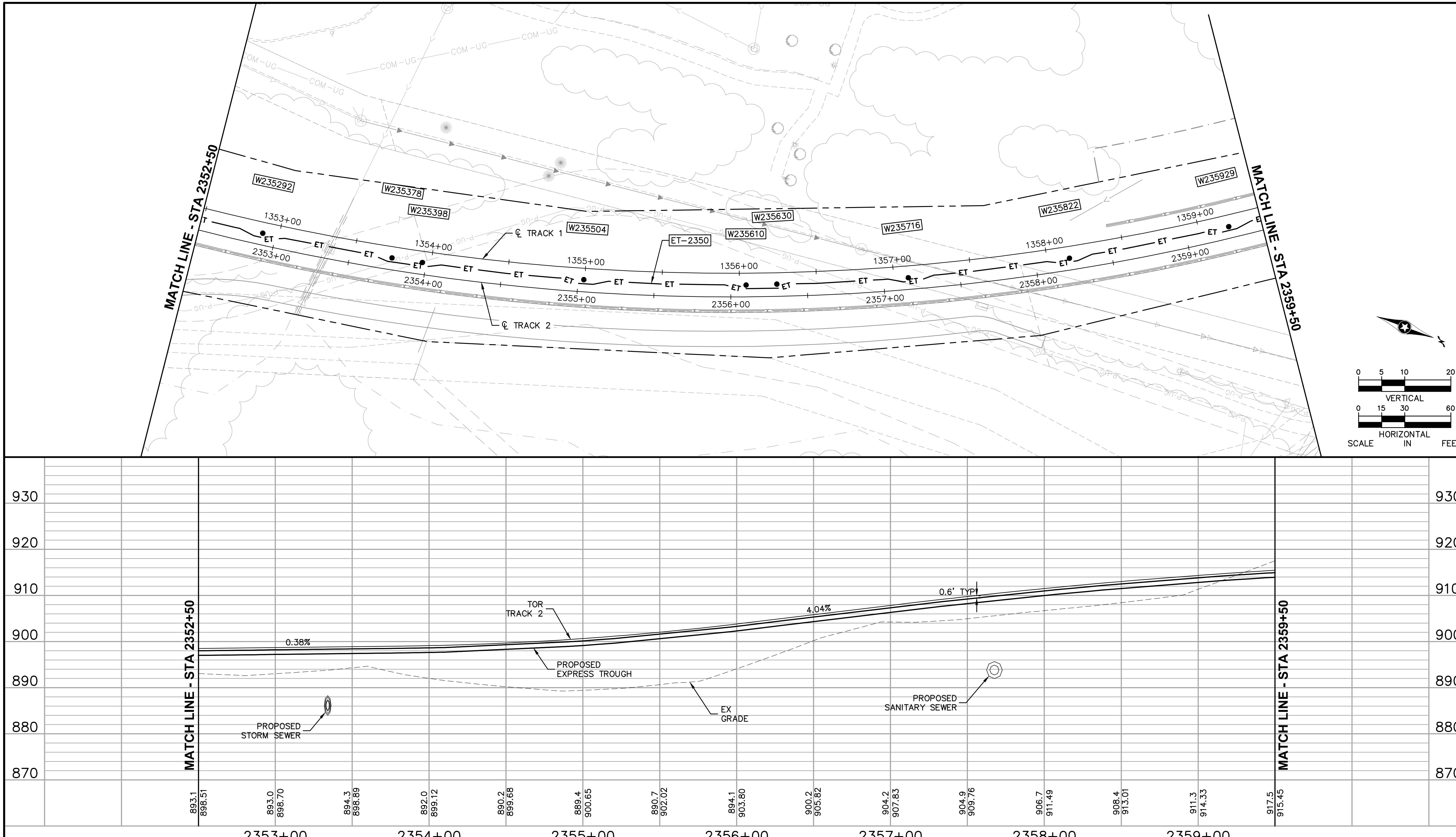

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2352+50 TO STA 2359+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-004

SHEET 101 OF 464

Jan, 18 2016 08:51 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-SCH.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2350	SC-MH-2350	SC-MH-2376	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

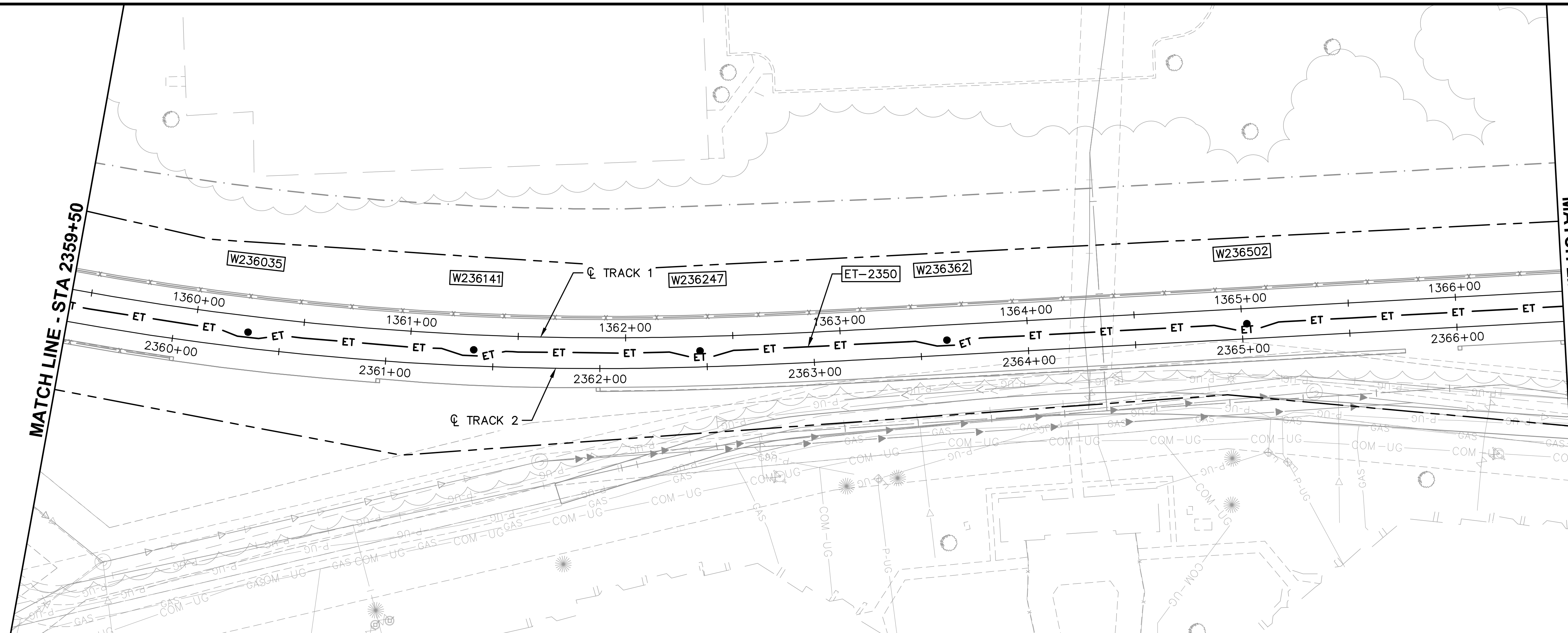
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2352+50 TO STA 2359+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-004

SHEET 102 OF 464



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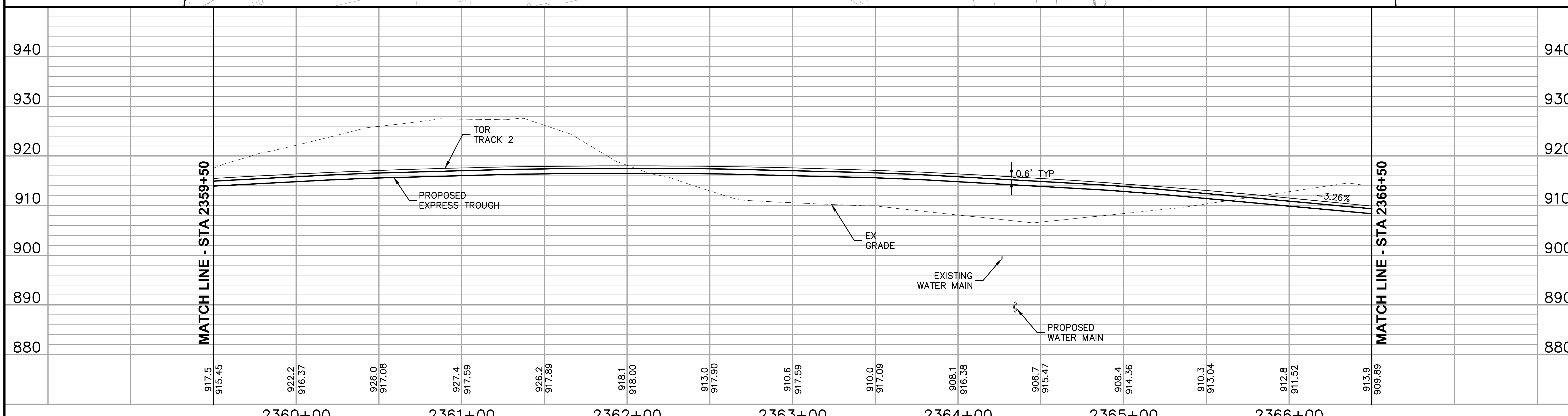
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2359+50 TO STA 2366+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-005

SHEET 103 OF 464

Jan, 18 2016 08:53 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2350	SC-MH-2350	SC-MH-2376	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

Jan, 18 2016 08:53 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-SCH.dwg By: V-TranTT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2359+50 TO STA 2366+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-005

SHEET 104 OF 464

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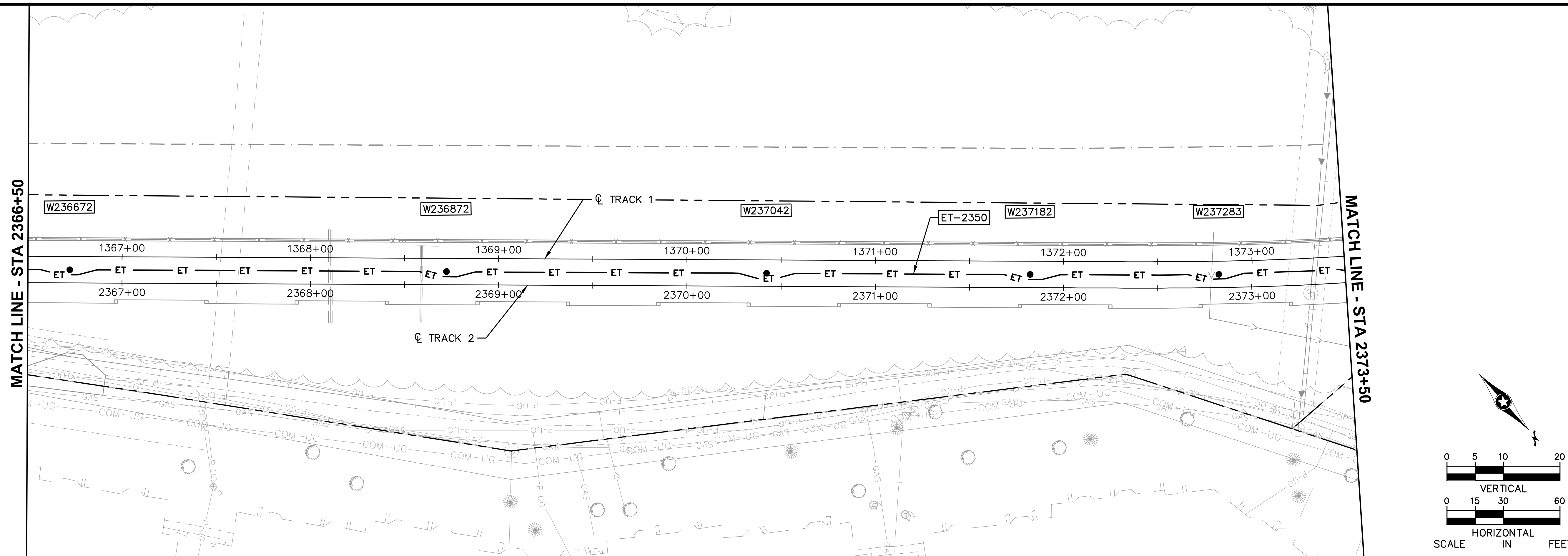

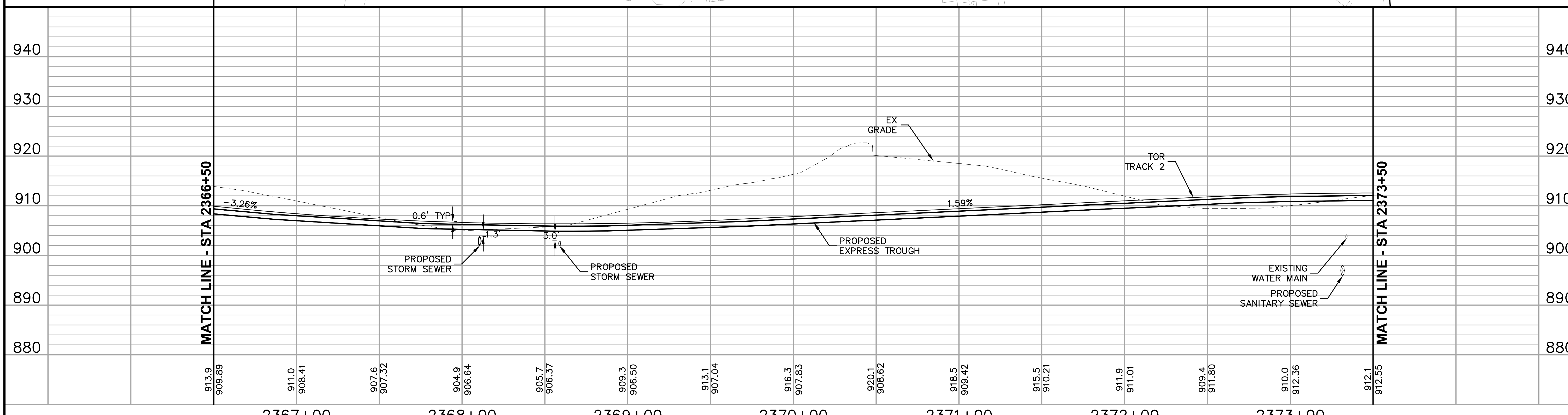

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2366+50 TO STA 2373+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-006

SHEET 105 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2350	SC-MH-2350	SC-MH-2376	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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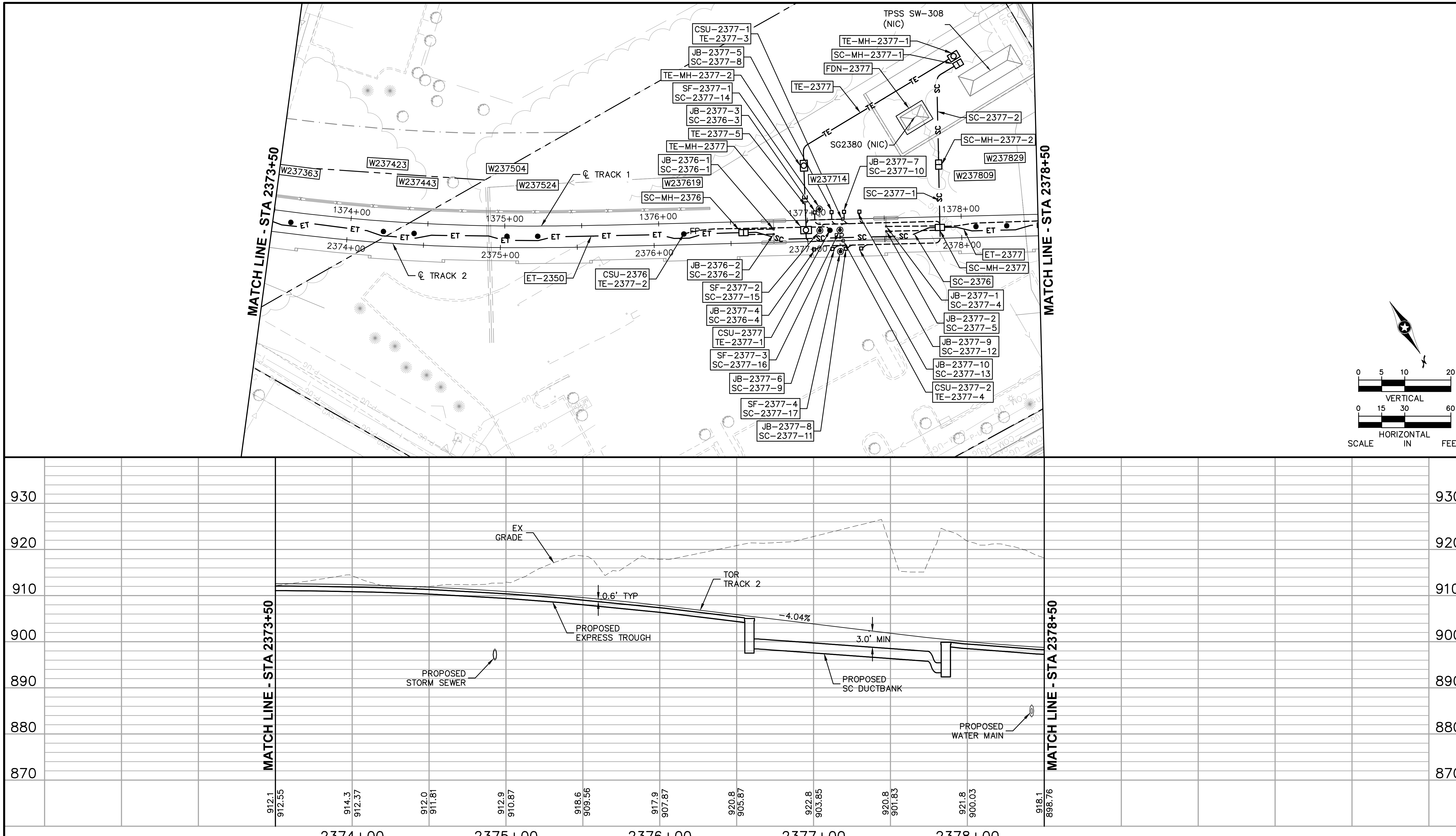
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2366+50 TO STA 2373+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-006



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2373+50 TO STA 2378+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-007

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2376	2376+58	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2377	2377+86	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2377-1	2378+02	110.6' L	SWE-DTL-003	SC MANHOLE
SC-MH-2377-2	2377+86	48.0' L	SWE-DTL-003	SC MANHOLE
TE-MH-2377	2377+00	7.0' L	SWE-DTL-002	TE MANHOLE
TE-MH-2377-1	2377+98	115.9' L	SWE-DTL-002	TE MANHOLE
TE-MH-2377-2	2377+00	48.0' L	SWE-DTL-002	TE MANHOLE
FDN-2377	2377+62	81.6' L	SWE-DTL-SIG-012	SC HOUSE FOUNDATION
SF-2377-1	2377+08	21.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2377-2	2377+08	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2377-3	2377+21	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2377-4	2377+21	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2376-1	2376+79	8.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2376-2	2376+79	5.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2377-1	2377+49	8.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2377-2	2377+49	5.5' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2377-3	2377+05	19.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2377-4	2377+05	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2377-5	2377+16	19.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2377-6	2377+16	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2377-7	2377+24	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2377-8	2377+24	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2377-9	2377+34	19.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2377-10	2377+34	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2376	2376+19	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2377	2377+12	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2377-1	2377+23	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2377-2	2377+23	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2350	SC-MH-2350	SC-MH-2376	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2377	SC-MH-2377	SC-HH-2384	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2376	SC-MH-2376	SC-MH-2377	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2377-1	SC-MH-2377-2	SC-MH-2377	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2377-2	SC-MH-2377-1	SC-MH-2377-2	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2376-1	SC-MH-2376	JB-2376-1	1-2	STU-DTL-001	SC CONDUIT
SC-2376-2	SC-MH-2376	JB-2376-2	1-2	STU-DTL-001	SC CONDUIT
SC-2377-4	SC-MH-2377	JB-2377-1	1-2	STU-DTL-001	SC CONDUIT
SC-2377-5	SC-MH-2377	JB-2377-2	1-2	STU-DTL-001	SC CONDUIT
SC-2377-6	SC-MH-2377	JB-2377-3	1-2	STU-DTL-001	SC CONDUIT
SC-2377-7	SC-MH-2377	JB-2377-4	1-2	STU-DTL-001	SC CONDUIT
SC-2377-8	SC-MH-2377	JB-2377-5	1-2	STU-DTL-001	SC CONDUIT
SC-2377-9	SC-MH-2377	JB-2377-6	1-2	STU-DTL-001	SC CONDUIT
SC-2377-10	SC-MH-2377	JB-2377-7	1-2	STU-DTL-001	SC CONDUIT
SC-2377-11	SC-MH-2377	JB-2377-8	1-2	STU-DTL-001	SC CONDUIT
SC-2377-12	SC-MH-2377	JB-2377-9	1-2	STU-DTL-001	SC CONDUIT
SC-2377-13	SC-MH-2377	JB-2377-10	1-2	STU-DTL-001	SC CONDUIT
SC-2377-14	SC-MH-2377	SF-2377-1	1-2	STU-DTL-001	SC CONDUIT
SC-2377-15	SC-MH-2377	SF-2377-2	1-2	STU-DTL-001	SC CONDUIT
SC-2377-16	SC-MH-2377	SF-2377-3	1-2	STU-DTL-001	SC CONDUIT
SC-2377-17	SC-MH-2377	SF-2377-4	1-2	STU-DTL-001	SC CONDUIT
TE-2377	SC-MH-2377-1	TE-MH-2377-2	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2377-5	SC-MH-2377	TE-MH-2377-2	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2377-1	TE-MH-2377	CSU-2377	2-4	STU-DTL-002	TE CONDUIT
TE-2377-2	TE-MH-2377	CSU-2376	2-4	STU-DTL-002	TE CONDUIT
TE-2377-3	CSU-2377-1	TE-MH-2377	1-5	STU-DTL-002	TE CONDUIT
TE-2377-4	CSU-2377-2	TE-MH-2377	1-5	STU-DTL-002	TE CONDUIT

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90% SUBMISSION - 01/22/16

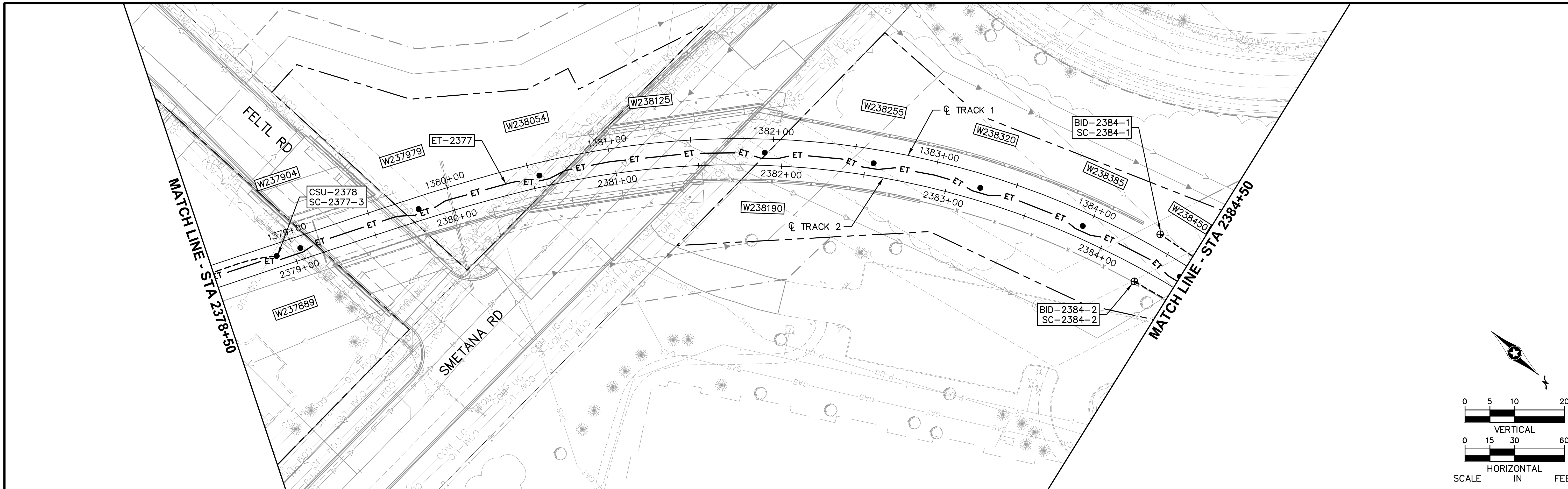
METROPOLITAN COUNCIL

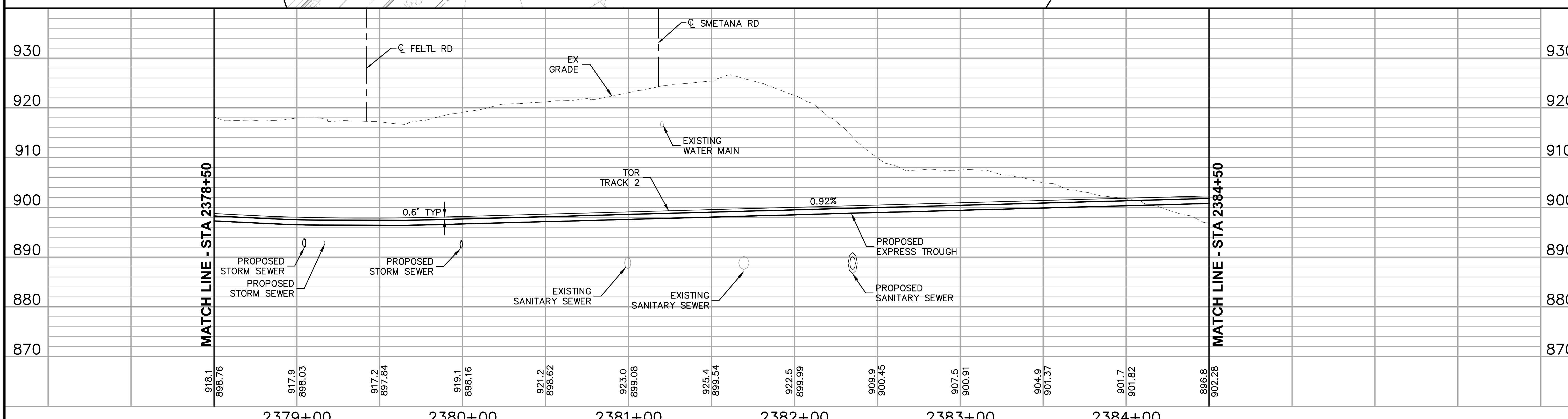
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2373+50 TO STA 2378+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-007





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2378+50 TO STA 2384+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-008

SHEET 109 OF 464

Jan, 18 2016 09:29 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
BID-2384-1	2384+29	23.5' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2384-2	2384+29	8.5' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
CSU-2378	2378+90	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2377	SC-MH-2377	SC-HH-2384	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2384-1	SC-HH-2384-1	BID-2384-1	1-2	STU-DTL-001	SC CONDUIT
SC-2384-2	FDN-2384	BID-2384-2	1-2	STU-DTL-001	SC CONDUIT
SC-2377-3	SC-MH-2377	CSU-2378	2-4	STU-DTL-001	SC CONDUIT

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METROPOLITAN COUNCIL

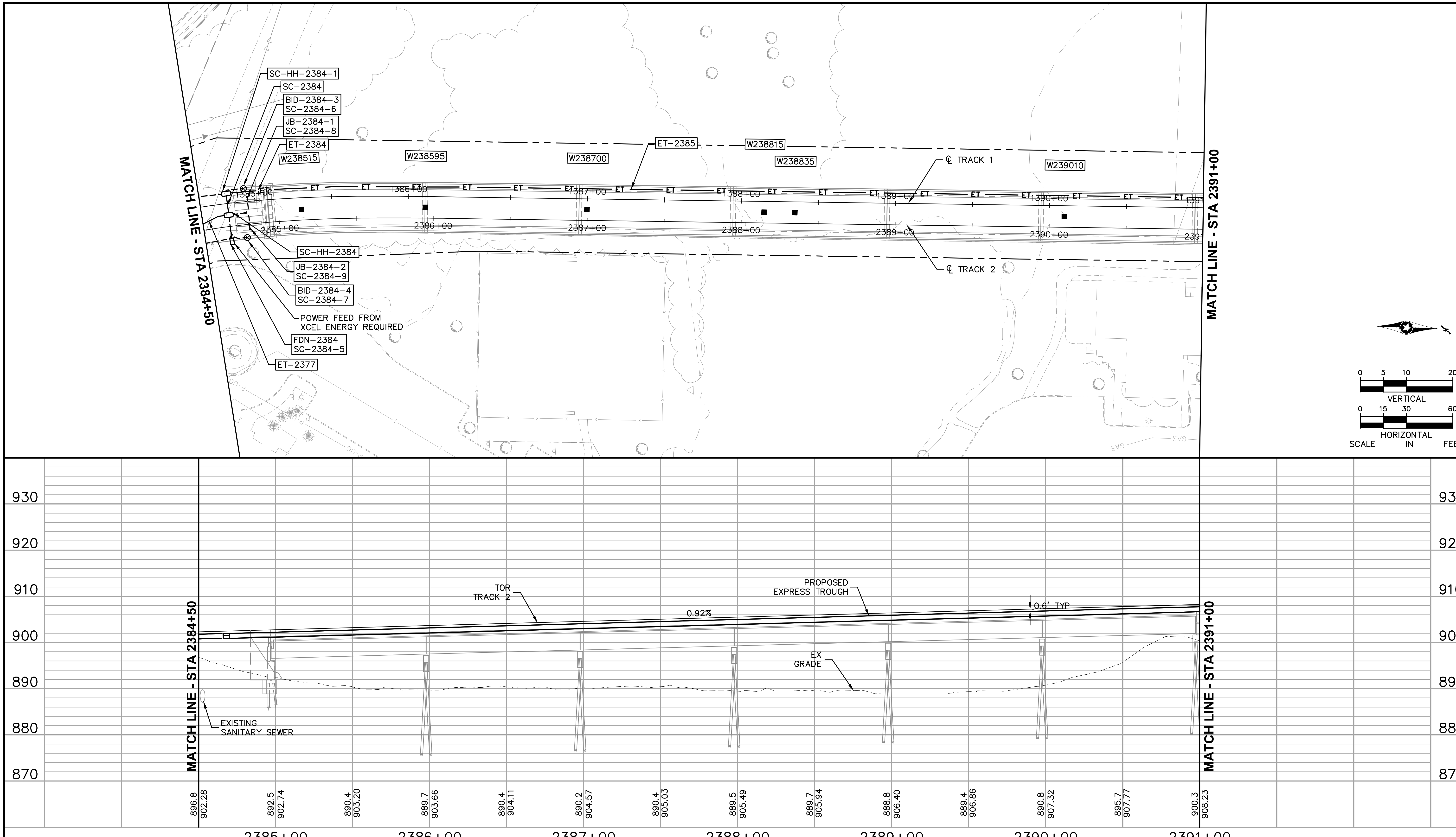
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2378+50 TO STA 2384+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-008

SHEET 110 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2384+50 TO STA 2391+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-009

SHEET 111 OF 464

Jan, 18 2016 09:31 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2384	2384+68	7.5' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2384-1	2384+68	20.2' L	SWE-DTL-005	SC HANDHOLE
FDN-2384	2415+18	27.0' ' L	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2384-1	2384+81	18.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2384-2	2384+81	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
BID-2384-3	2384+79	23.5' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2384-4	2384+79	8.5' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2377	SC-MH-2377	SC-HH-2384	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2384	SC-HH-2384-1	WEST BRIDGE ABUTMENT	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2385	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2384	SC-HH-2384	SC-HH-2384-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2384-5	SC-HH-2384	FDN-2384	4-2	STU-DTL-001	SC CONDUIT
SC-2384-6	SC-HH-2384-1	BID-2384-3	1-2	STU-DTL-001	SC CONDUIT
SC-2384-7	SC-HH-2384	BID-2384-4	1-2	STU-DTL-001	SC CONDUIT
SC-2384-8	SC-HH-2384	JB-2384-1	1-2	STU-DTL-001	SC CONDUIT
SC-2384-9	SC-HH-2384	JB-2384-2	1-2	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

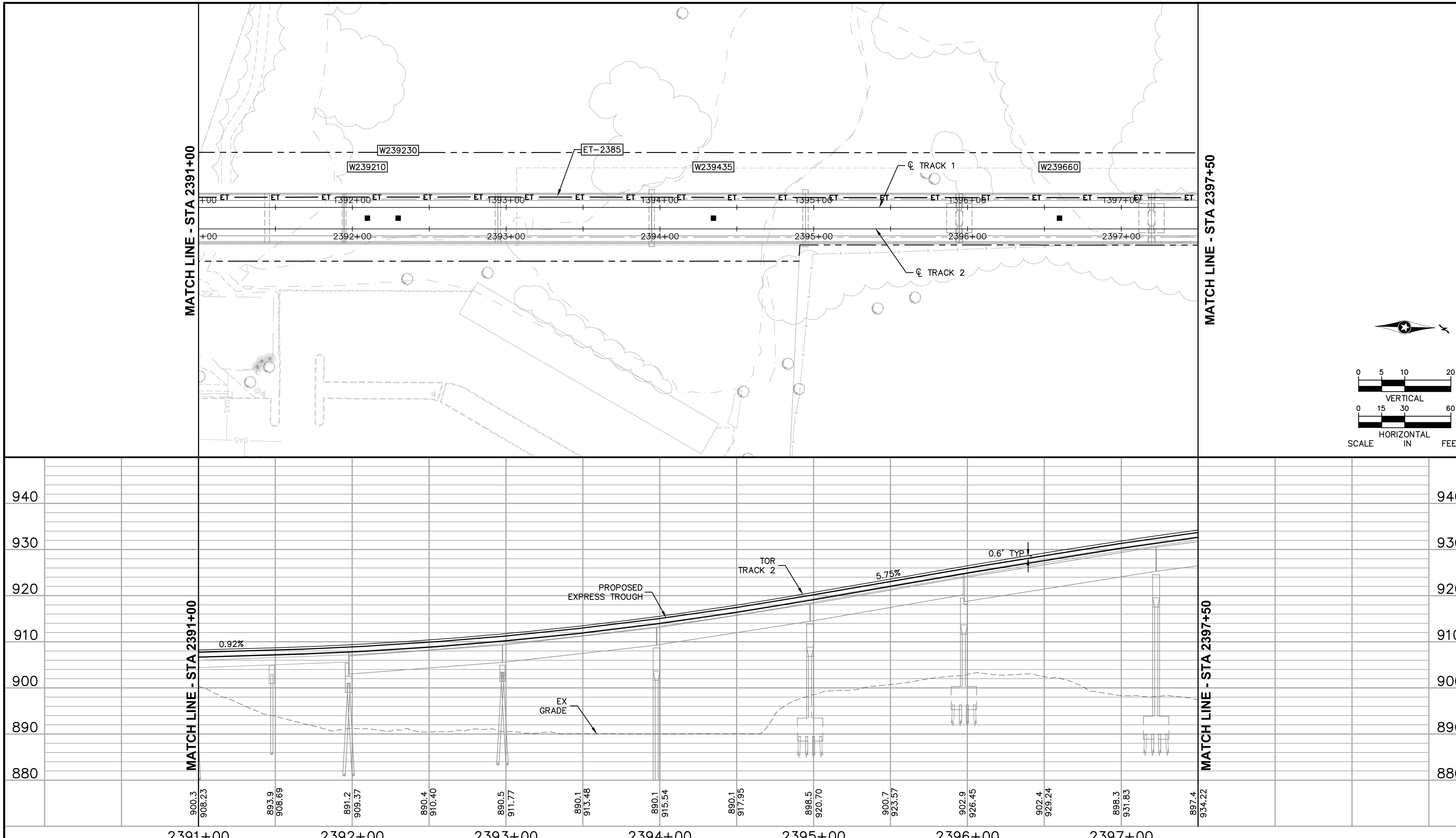
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2384+50 TO STA 2391+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-009



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2391+00 TO STA 2397+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-010

SHEET 113 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2385	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2391+00 TO STA 2397+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-010

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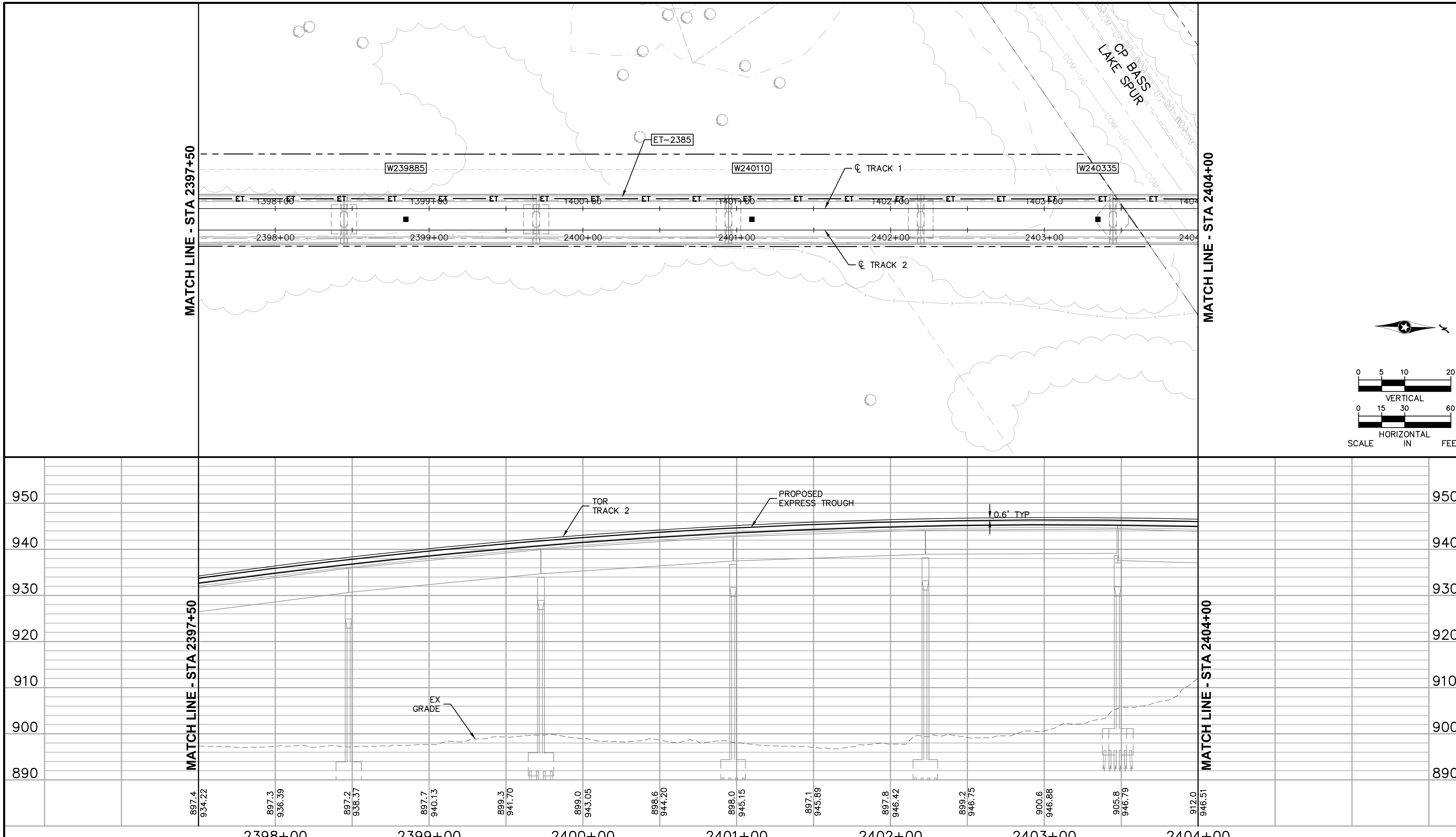

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2397+50 TO STA 2404+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-011

SHEET 115 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2385	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

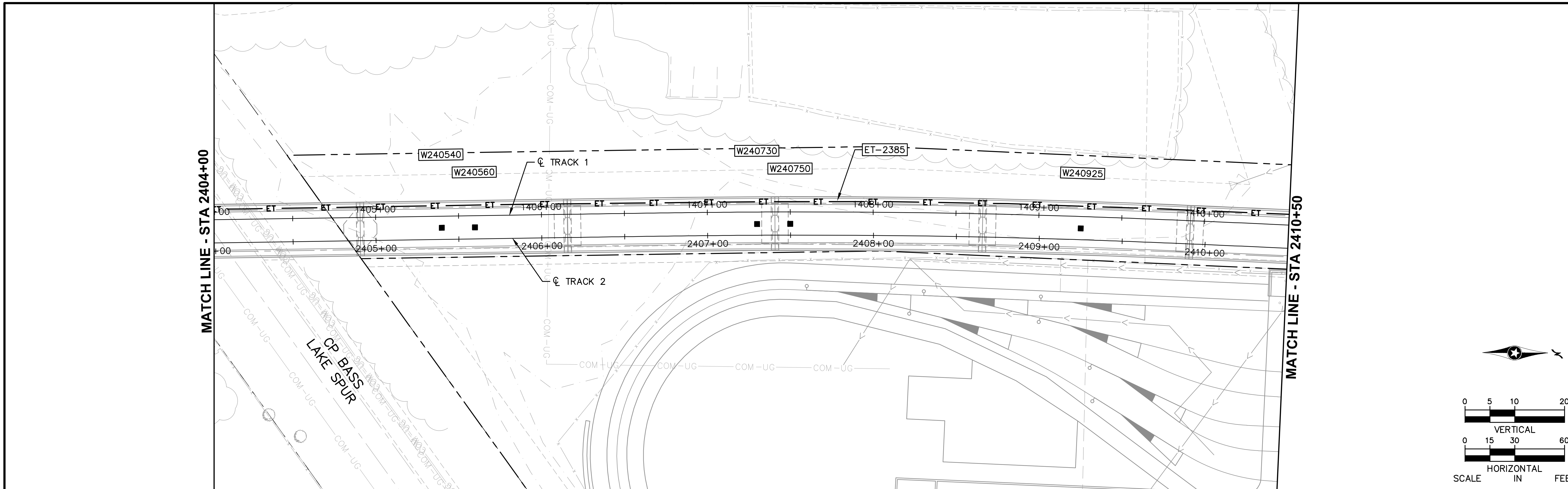
SOUTHWEST Green Line LRT Extension

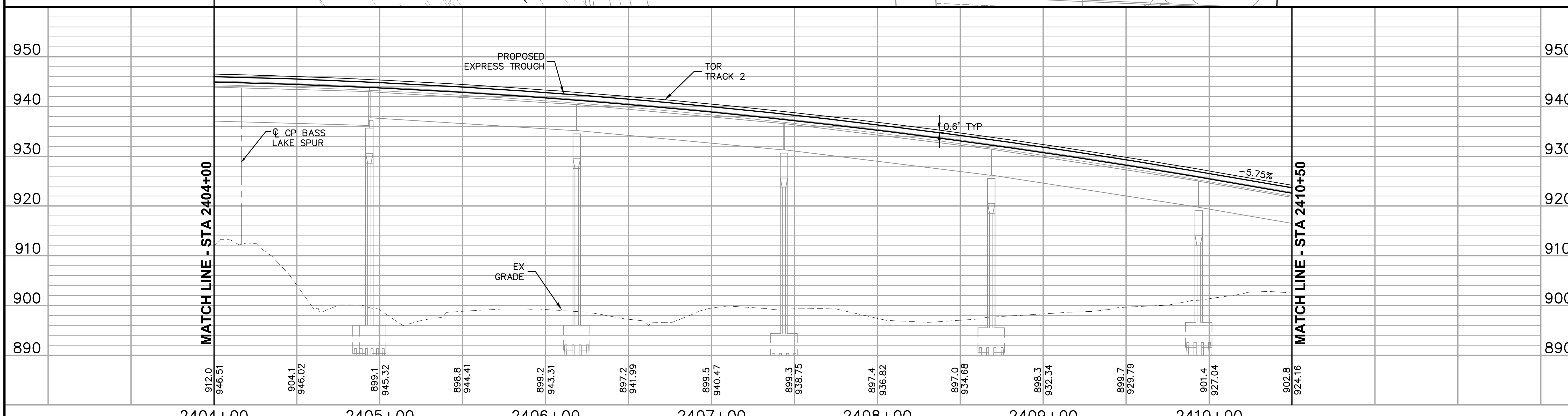
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2397+50 TO STA 2404+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-011

SHEET 116 OF 464





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2404+00 TO STA 2410+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-012

SHEET 117 OF 464

Jan, 18 2016 09:02 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2385	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

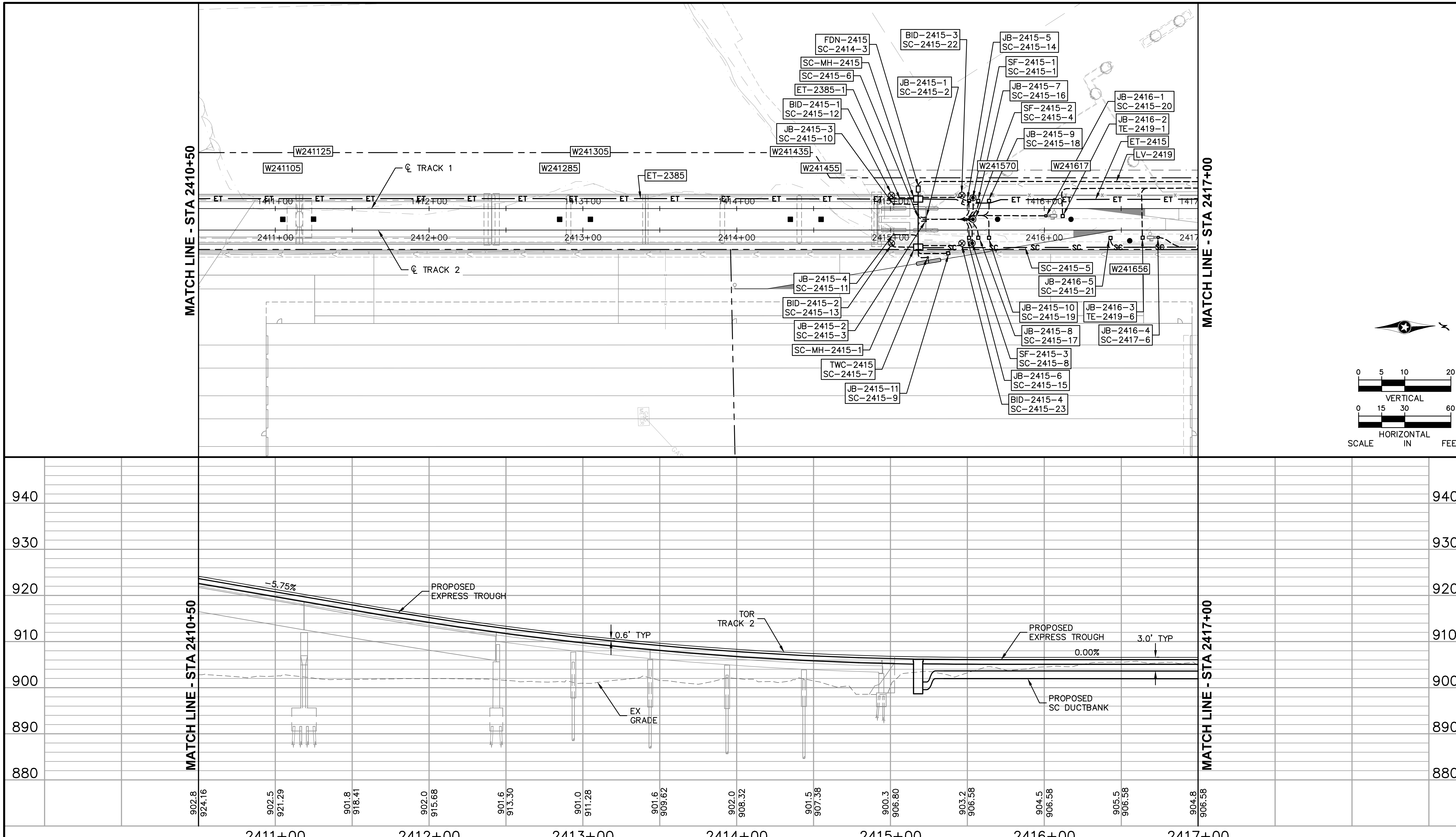
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2404+00 TO STA 2410+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-012

SHEET 118 OF 464

Jan, 18 2016 09:02 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-SCH.dwg By: V-TranTT



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2410+50 TO STA 2417+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-013

SHEET 119 OF 464

Jan. 18 2016 09:32 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2415	2415+18	8.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2415-1	2415+18	19.5' R	SWE-DTL-003	SC MANHOLE
FDN-2415	2414+51	19.5' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
SF-2415-1	2415+54	21.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2415-2	2415+53	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2415-3	2415+53	8.6' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2415-1	2415+23	8.2' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2415-2	2415+23	6.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2415-3	2415+02	17.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2415-4	2415+02	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2415-5	2415+51	19.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2415-6	2415+51	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2415-7	2415+57	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2415-8	2415+57	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2415-9	2415+64	19.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2415-10	2415+64	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2415-11	2415+37	15.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2416-1	2416+01	9.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2416-2	2416+12	9.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2416-3	2416+64	5.0' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2416-4	2416+74	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2416-5	2416+50	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
BID-2415-1	2415+01	22.6' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2415-2	2415+01	8.6' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2415-3	2415+46	22.6' L	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2415-4	2415+46	8.6' R	SWE-DTL-COM-003	BRIDGE INTRUSION DETECTION FOUNDATION AND STUB UP
TWC-2415	2415+24	18.0' R	SWE-DTL-SIG-002	EMBEDDED TRACK TWC ANTENNA

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2385	WEST BRIDGE ABUTMENT	EAST BRIDGE ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2385-1	EAST BRIDGE ABUTMENT	SC-MH-2415	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2415	SC-MH-2415	SC-MH-2417	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2415-5	SC-MH-2417-1	SC-MH-2415-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2415-6	SC-MH-2415-1	SC-MH-2415	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2414-3	SC-MH-2415	FDN-2415	4-2	STU-DTL-001	SC CONDUIT
SC-2415-1	SC-MH-2415	SF-2415-1	1-2	STU-DTL-001	SC CONDUIT
SC-2415-2	SC-MH-2415	JB-2415-1	1-2	STU-DTL-001	SC CONDUIT
SC-2415-3	SC-MH-2415-1	JB-2415-2	1-2	STU-DTL-001	SC CONDUIT
SC-2415-4	SC-MH-2415-1	SF-2415-2	1-2	STU-DTL-001	SC CONDUIT
SC-2415-7	SC-MH-2415-1	TWC-2415	1-2	STU-DTL-001	SC CONDUIT
SC-2415-8	SC-MH-2415-1	SF-2415-3	1-2	STU-DTL-001	SC CONDUIT
SC-2415-9	SC-MH-2415-1	JB-2415-11	1-2	STU-DTL-001	SC CONDUIT
SC-2415-10	SC-MH-2415	JB-2415-3	1-2	STU-DTL-001	SC CONDUIT
SC-2415-11	SC-MH-2415-1	JB-2415-4	1-2	STU-DTL-001	SC CONDUIT
SC-2415-12	SC-MH-2415	BID-2415-1	1-2	STU-DTL-001	SC CONDUIT
SC-2415-13	SC-MH-2415-1	BID-2415-2	1-2	STU-DTL-001	SC CONDUIT
SC-2415-14	SC-MH-2415	JB-2415-5	1-2	STU-DTL-001	SC CONDUIT
SC-2415-15	SC-MH-2415	JB-2415-6	1-2	STU-DTL-001	SC CONDUIT
SC-2415-16	SC-MH-2415	JB-2415-7	1-2	STU-DTL-001	SC CONDUIT
SC-2415-17	SC-MH-2415	JB-2415-8	1-2	STU-DTL-001	SC CONDUIT
SC-2415-18	SC-MH-2415	JB-2415-9	1-2	STU-DTL-001	SC CONDUIT
SC-2415-19	SC-MH-2415	JB-2415-10	1-2	STU-DTL-001	SC CONDUIT
SC-2415-20	SC-MH-2415	JB-2416-1	1-3	STU-DTL-001	SC CONDUIT
SC-2415-21	SC-MH-2417-1	JB-2416-5	1-2	STU-DTL-001	SC CONDUIT
SC-2415-22	SC-MH-2415	BID-2415-3	1-2	STU-DTL-001	SC CONDUIT
SC-2415-23	SC-MH-2415-1	BID-2415-4	1-2	STU-DTL-001	SC CONDUIT
SC-2417-6	SC-MH-2417-1	JB-2416-4	1-3	STU-DTL-001	SC CONDUIT
TE-2419-1	FDN-2417	JB-2416-2	1-2	STU-DTL-002	TE CONDUIT
TE-2419-6	FDN-2419-1	JB-2416-3	1-2	STU-DTL-002	TE CONDUIT
LV-2419	SC-MH-2419-1	FDN-2415	1-2	STU-DTL-001	LV CONDUIT

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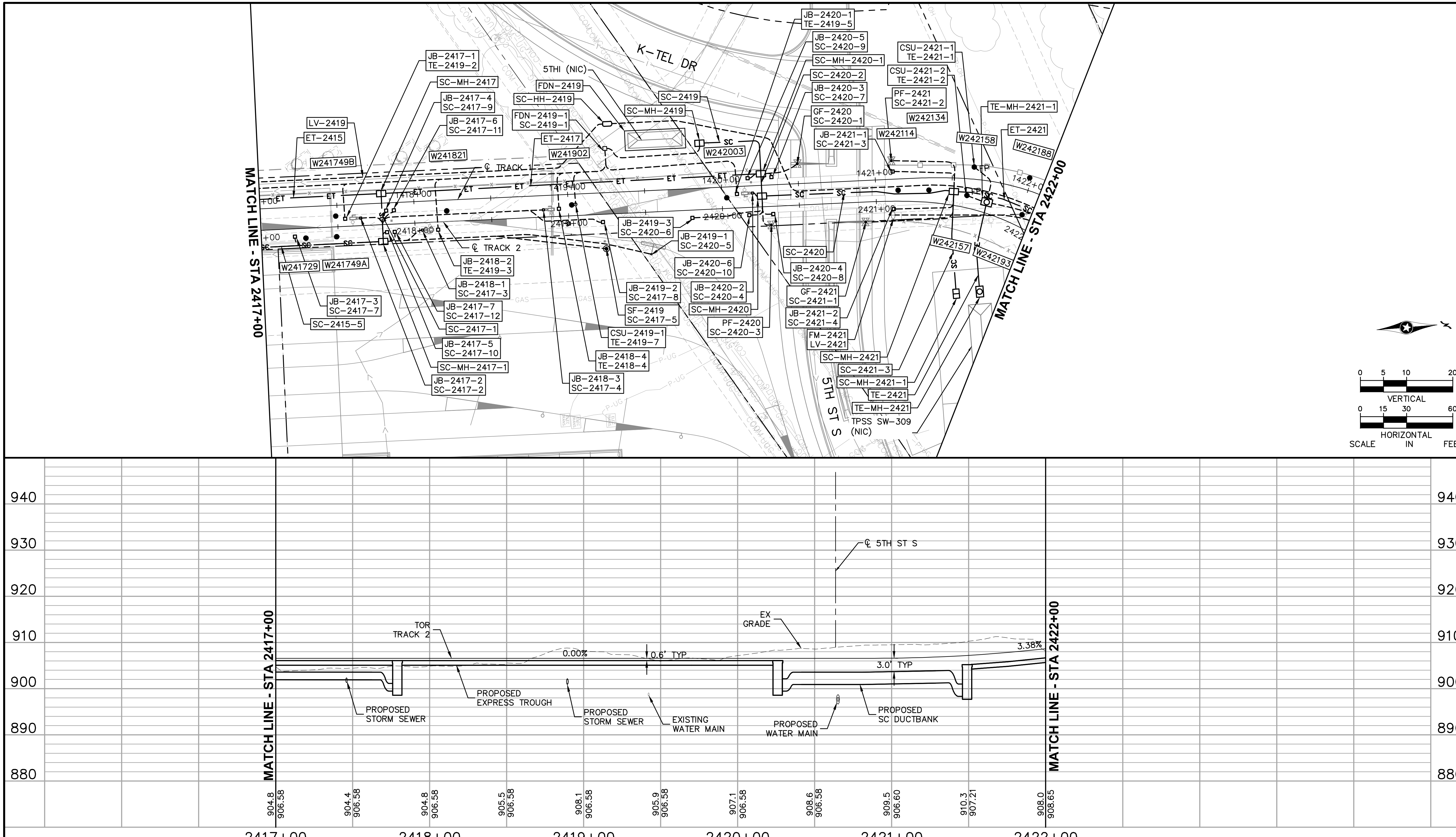
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2410+50 TO STA 2417+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-013

SHEET 120 OF 464



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AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2417+00 TO STA 2422+00

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-014

SHEET 121 OF 464

Jan, 18 2016 09:33 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2417	2417+79	20.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2417-1	2417+79	10.9' R	SWE-DTL-003	SC MANHOLE
SC-MH-2419	2419+87	43.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2420	2420+26	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2420-1	2420+26	27.7' L	SWE-DTL-003	SC MANHOLE
SC-MH-2421	2421+49	8.9' L	SWE-DTL-003	SC MANHOLE
SC-MH-2421-1	2421+68	55.0' R	SWE-DTL-003	SC MANHOLE
SC-HH-2419	2419+27	58.0' L	SWE-DTL-005	SC HANDHOLE
FDN-2419	2419+44	5345.0' L	SWE-DTL-SIG-014	SC HOUSE FOUNDATION
FDN-2419-1	2419+25	42.6' L	SWE-DTL-SIG-016	SWITCH HEATER FOUNDATION AND STUB UP
PF-2420	2420+31	12.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2421	2421+10	26.3' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
GF-2420	2420+50	27.0' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2421	2420+93	13.0' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
SF-2419	2419+24	22.4' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
TE-MH-2421	2421+90	49.0' R	SWE-DTL-002	TE MANHOLE
TE-MH-2421-1	2421+70	6.0' L	SWE-DTL-002	TE MANHOLE
CSU-2419-1	2419+05	7.0' L	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP
CSU-2421-1	2421+60	25.7' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2421-2	2421+60	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
JB-2417-1	2417+55	5.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2417-2	2417+65	5.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2417-3	2417+22	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2417-4	2417+82	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2417-5	2417+82	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2417-6	2417+87	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2417-7	2417+87	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2418-1	2418+05	4.7' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2418-2	2418+15	4.9' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2418-3	2418+84	4.8' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2418-4	2418+94	5.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2419-1	2419+53	6.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2419-2	2419+22	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2419-3	2419+80	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2420-1	2420+10	9.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2420-2	2420+20	9.3' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2420-3	2420+33	9.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2420-4	2420+33	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2420-5	2420+17	19.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2420-6	2420+17	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2421-1	2421+11	19.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2421-2	2421+11	5.0' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
FM-2421	2421+11	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2415	SC-MH-2415	SC-MH-2417	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2417	SC-MH-2417	SC-MH-2420-1	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2421	SC-MH-2421	SC-MH-2422	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2415-5	SC-MH-2415-1	SC-MH-2417-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2417-1	SC-MH-2417	SC-MH-2417-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2420	SC-MH-2420	SC-MH-2421	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2420-2	SC-MH-2420-1	SC-MH-2420	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2419	SC-MH-2419	SC-MH-2420-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2421-3	SC-MH-2421	SC-MH-2421-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2417-2	SC-MH-2417-1	JB-2417-2	1-3	STU-DTL-001	SC CONDUIT
SC-2417-3	SC-MH-2417-1	JB-2418-1	1-3	STU-DTL-001	SC CONDUIT
SC-2417-4	SC-MH-2417-1	JB-2418-3	1-3	STU-DTL-001	SC CONDUIT
SC-2417-5	SC-MH-2417-1	SF-2419	1-2	STU-DTL-001	SC CONDUIT
SC-2417-7	SC-MH-2417-1	JB-2417-3	1-2	STU-DTL-001	SC CONDUIT
SC-2417-8	SC-MH-2417-1	JB-2419-2	1-2	STU-DTL-001	SC CONDUIT
SC-2417-9	SC-MH-2417-1	JB-2417-4	1-2	STU-DTL-001	SC CONDUIT
SC-2417-10	SC-MH-2417-1	JB-2417-5	1-2	STU-DTL-001	SC CONDUIT
SC-2417-11	SC-MH-2417-1	JB-2417-6	1-2	STU-DTL-001	SC CONDUIT
SC-2417-12	SC-MH-2417-1	JB-2417-7	1-2	STU-DTL-001	SC CONDUIT
SC-2419-1	SC-MH-2419	FDN-2419-1	1-3	STU-DTL-001	SC CONDUIT
SC-2420-1	SC-MH-2420-1	GF-2420	1-4	STU-DTL-001	SC CONDUIT
SC-2420-3	SC-MH-2420	PF-2420	1-4	STU-DTL-001	SC CONDUIT
SC-2420-4	SC-MH-2420	JB-2420-2	1-3	STU-DTL-001	SC CONDUIT
SC-2420-5	SC-MH-2420	JB-2419-1	1-2	STU-DTL-001	SC CONDUIT
SC-2420-6	SC-MH-2420	JB-2419-3	1-2	STU-DTL-001	SC CONDUIT
SC-2420-7	SC-MH-2420	JB-2420-3	1-2	STU-DTL-001	SC CONDUIT
SC-2420-8	SC-MH-2420	JB-2420-4	1-2	STU-DTL-001	SC CONDUIT
SC-2420-9	SC-MH-2420-1	JB-2420-5			
SC-2420-10	SC-MH-2420	JB-2420-6			
SC-2421-1	SC-MH-2421	GF-2421	1-4	STU-DTL-001	SC CONDUIT
SC-2421-2	SC-MH-2421	PF-2421	1-4	STU-DTL-001	SC CONDUIT
SC-2421-3	SC-MH-2421	JB-2421-1	1-2	STU-DTL-001	SC CONDUIT
SC-2421-4	SC-MH-2421	JB-2421-2	1-2	STU-DTL-001	SC CONDUIT
TE-2421	TE-MH-2421	TE-MH-2421-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2421-1	TE-MH-2421-1	CSU-2421-1	2-4	STU-DTL-002	TE CONDUIT
TE-2421-2	TE-MH-2421-1	CSU-2421-2	2-4	STU-DTL-002	TE CONDUIT
TE-2419-2	FDN-2419-1	JB-2417-1	1-2	STU-DTL-002	TE CONDUIT
TE-2419-3	FDN-2419-1	JB-2418-2	1-2	STU-DTL-002	TE CONDUIT
TE-2419-4	FDN-2419-1	JB-2418-4	1-2	STU-DTL-002	TE CONDUIT
TE-2419-5	FDN-2419-1	JB-2420-1	1-2	STU-DTL-002	TE CONDUIT
TE-2419-7	FDN-2419-1	CSU-2419-1	1-4	STU-DTL-002	TE CONDUIT
LV-2419	SC-MH-2419-1	FDN-2415	1-2	STU-DTL-001	LV CONDUIT

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AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2417+00 TO STA 2422+00

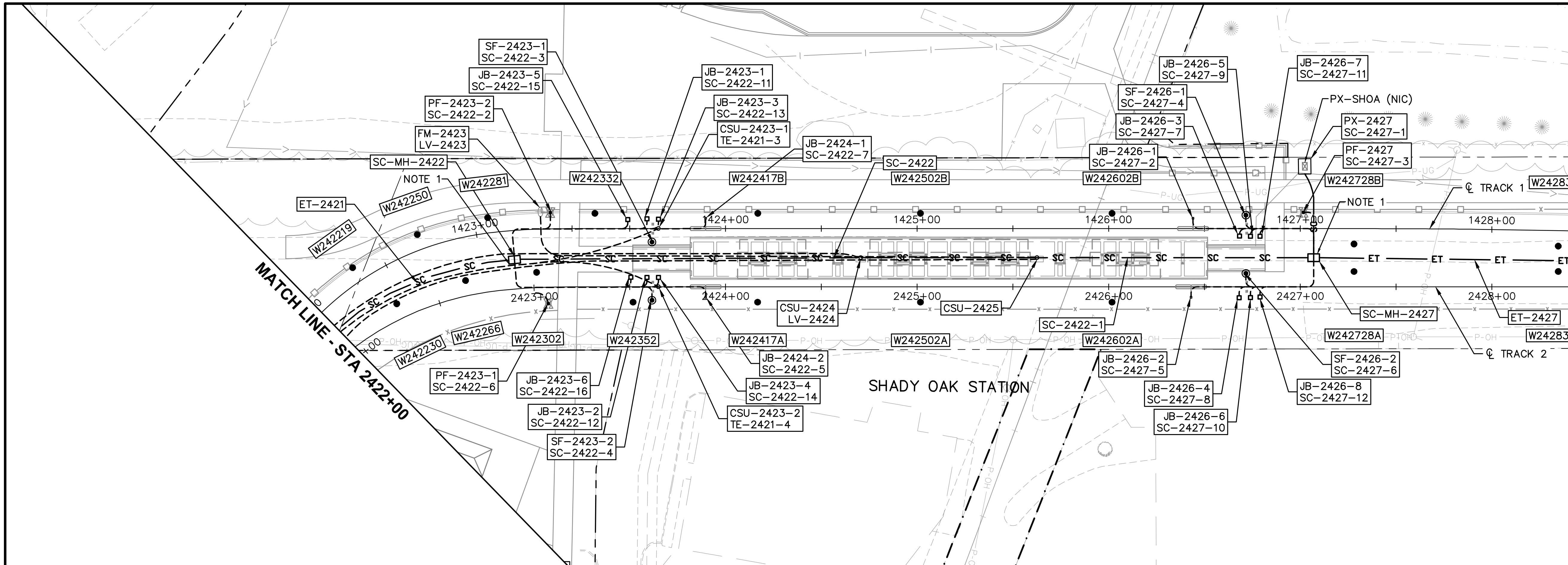
DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-014

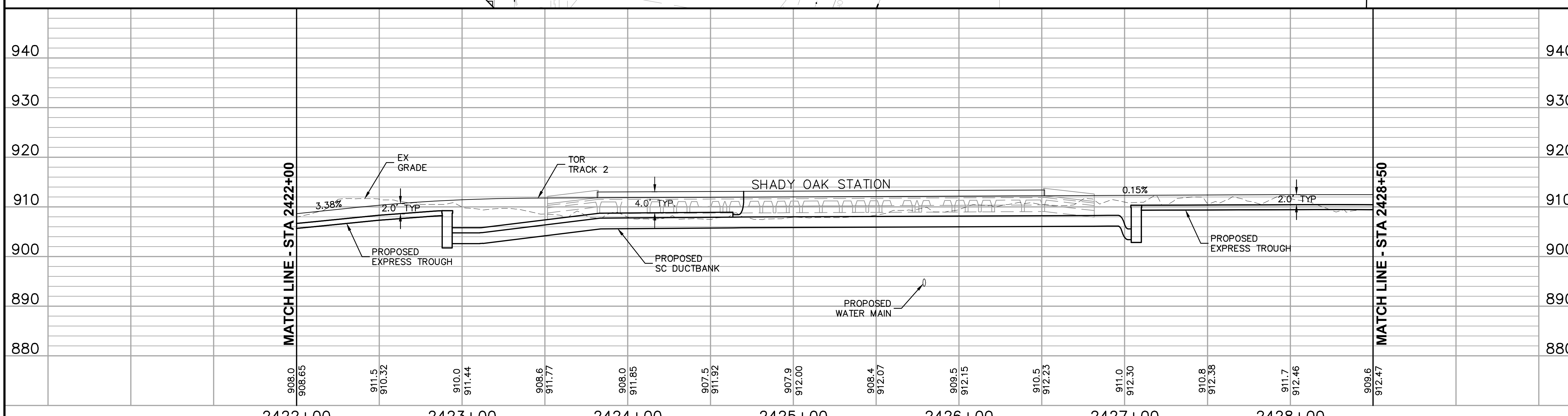
SHEET 122 OF 464

Jan, 18 2016 09:04 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-SCH.dwg By: V-TranTT

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-SHD-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.



SCALE IN FEET
VERTICAL: 0 5 10 20
HORIZONTAL: 0 15 30 60



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2422+00 TO STA 2428+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-015

SHEET 123 OF 464

Jan, 18 2016 09:35 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2422	2422+91	15.3' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2427	2427+07	15.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
PF-2423-1	2423+07	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2423-2	2423+10	39.0' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2427	2427+02	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PX-2427	2427+00	58.8' L	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
SF-2423-1	2423+62	23.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2423-2	2423+61	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2426-1	2426+71	37.7' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2426-2	2426+71	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2423-1	2423+59	35.5' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2423-2	2423+59	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2423-3	2423+65	35.5' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2423-4	2423+65	5.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2423-5	2423+49	25.5' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2423-6	2423+49	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2424-1	2423+89	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2424-2	2423+89	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2426-1	2426+44	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2426-2	2426+43	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2426-3	2426+69	26.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2426-4	2426+69	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2426-5	2426+75	26.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2426-6	2426+75	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2426-7	2426+79	26.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2426-8	2426+79	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2423-1	2423+65	30.4' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2423-2	2423.65	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2424	2424+70	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2425	2425++63	14.5' L	3/SWE-DTL-012	ELECTRICAL CABINET CONDUIT STUB UP
FM-2423	2423+34	39.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2421	SC-MH-2421	SC-MH-2422	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2427	SC-MH-2427	SC-MH-2497	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2422	SC-MH-2422	CSU-2424	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2422-1	SC-MH-2422	SC-MH-2427	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2427-1	SC-MH-2427	PX-2427	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2422-2	SC-MH-2422	PF-2423-2	1-4	STU-DTL-001	SC CONDUIT
SC-2422-3	SC-MH-2422	SF-2423-1	1-2	STU-DTL-001	SC CONDUIT
SC-2422-4	SC-MH-2422	SF-2423-2	1-2	STU-DTL-001	SC CONDUIT
SC-2422-5	SC-MH-2422	JB-2424-2	1-2	STU-DTL-001	SC CONDUIT
SC-2422-6	SC-MH-2422	PF-2423-1	1-4	STU-DTL-001	SC CONDUIT
SC-2422-7	SC-MH-2422	JB-2424-1	1-2	STU-DTL-001	SC CONDUIT
SC-2422-11	SC-MH-2422	JB-2423-1	1-2	STU-DTL-001	SC CONDUIT
SC-2422-12	SC-MH-2422	JB-2423-2	1-2	STU-DTL-001	SC CONDUIT
SC-2422-13	SC-MH-2422	JB-2423-3	1-2	STU-DTL-001	SC CONDUIT
SC-2422-14	SC-MH-2422	JB-2423-4	1-2	STU-DTL-001	SC CONDUIT
SC-2422-15	SC-MH-2422	JB-2423-5	1-2	STU-DTL-001	SC CONDUIT
SC-2422-16	SC-MH-2422	JB-2423-6	1-2	STU-DTL-001	SC CONDUIT
SC-2427-2	SC-MH-2427	JB-2426-1	1-2	STU-DTL-001	SC CONDUIT
SC-2427-3	SC-MH-2427	PF-2427	1-4	STU-DTL-001	SC CONDUIT
SC-2427-4	SC-MH-2427	SF-2426-1	1-2	STU-DTL-001	SC CONDUIT
SC-2427-5	SC-MH-2427	JB-2426-2	1-2	STU-DTL-001	SC CONDUIT
SC-2427-6	SC-MH-2427	SF-2426-2	1-2	STU-DTL-001	SC CONDUIT
SC-2427-7	SC-MH-2427	JB-2426-3	1-2	STU-DTL-001	SC CONDUIT
SC-2427-8	SC-MH-2427	JB-2426-4	1-2	STU-DTL-001	SC CONDUIT
SC-2427-9	SC-MH-2427	JB-2426-5	1-2	STU-DTL-001	SC CONDUIT
SC-2427-10	SC-MH-2427	JB-2426-6	1-2	STU-DTL-001	SC CONDUIT
SC-2427-11	SC-MH-2427	JB-2426-7	1-2	STU-DTL-001	SC CONDUIT
SC-2427-12	SC-MH-2427	JB-2426-8	1-2	STU-DTL-001	SC CONDUIT
TE-2421-3	TE-MH-2421-1	CSU-2423-1	1-5	STU-DTL-002	TE CONDUIT
TE-2421-4	TE-MH-2421-1	CSU-2423-2	1-5	STU-DTL-002	TE CONDUIT
LV-2423	CSU-2425	FM-2423	1-2	STU-DTL-001	LV CONDUIT
LV-2424	SC-HH-2419	CSU-2424	1-2	STU-DTL-001	LV CONDUIT

NOTES:

1. SEE VOLUME 10B LIGHTING SHEET W2-SHD-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

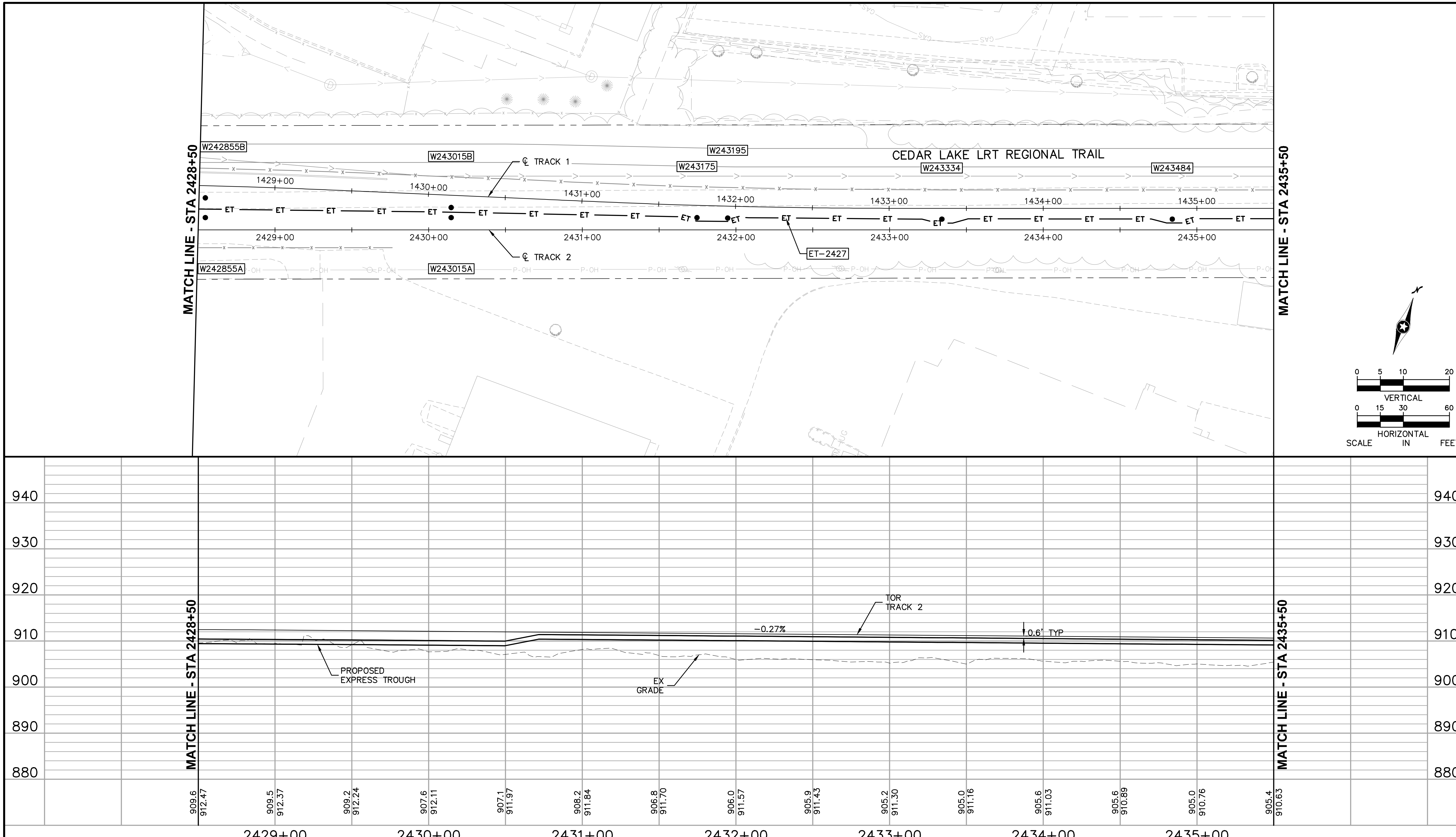
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2422+00 TO STA 2428+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-015



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2428+50 TO STA 2435+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-016

SHEET 125 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2427	SC-MH-2427	SC-MH-2497	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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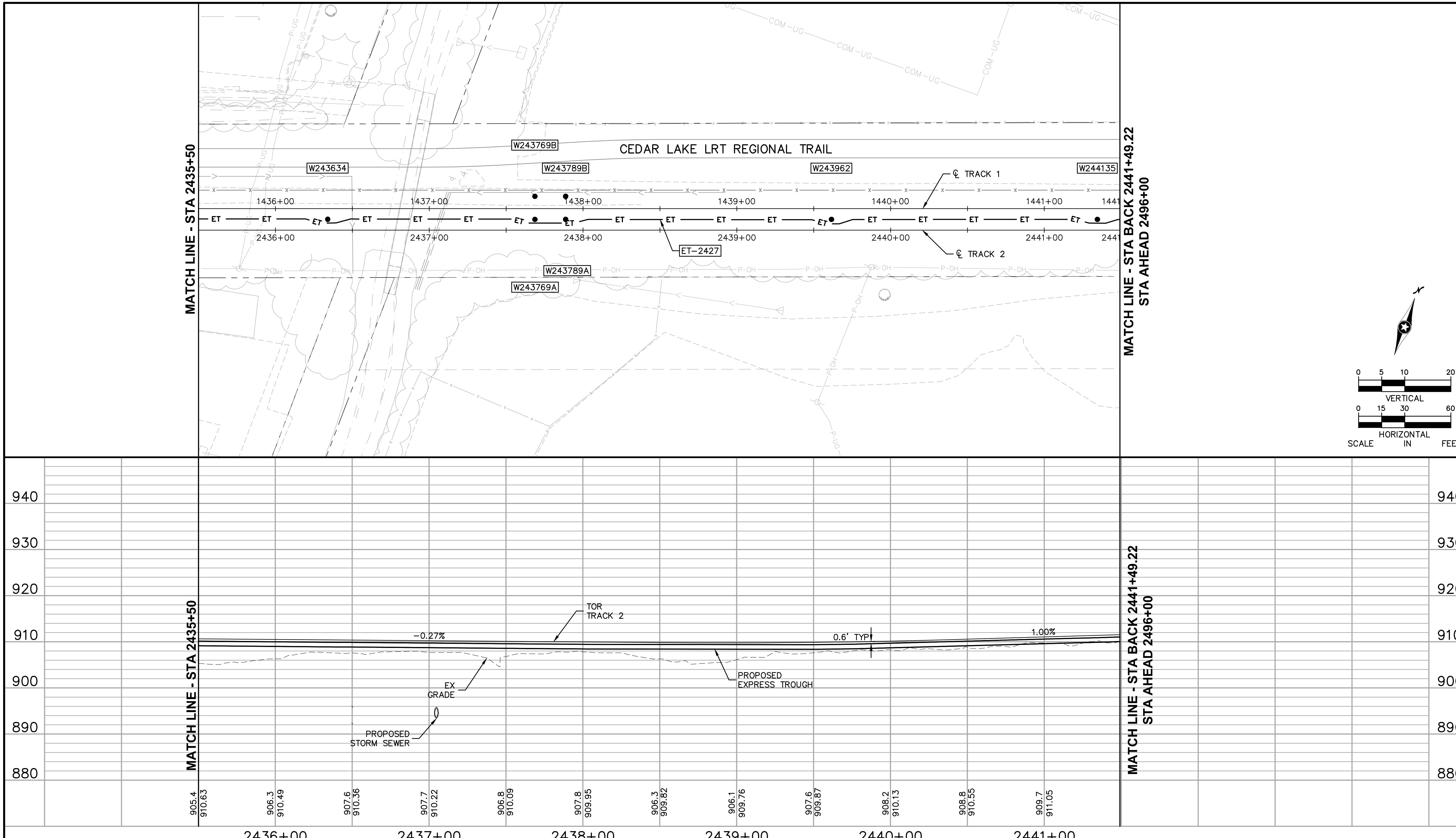
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2428+50 TO STA 2435+50

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-016



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2435+50 TO STA 2441+49.22

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-PRF-017

SHEET 127 OF 464

Jan, 18 2016 09:09 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W3-SYS-SWE-PRF.dwg By: V-TranTT

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL # / REFERENCE DRAWING	NOTES
ET-2427	SC-MH-2427	SC-MH-2497	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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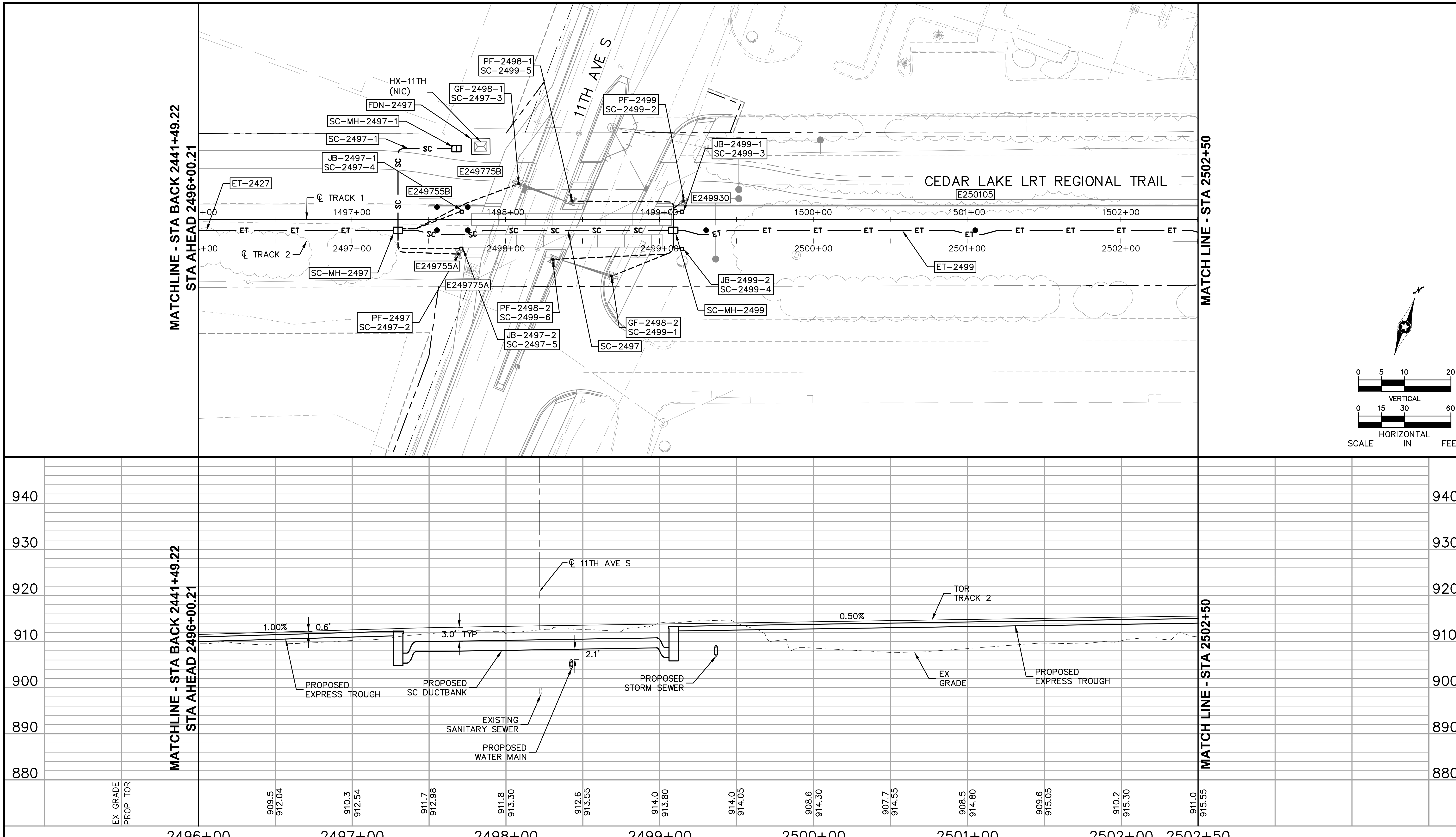
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2435+50 TO STA 2441+49.22

DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SCH-017



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2496+00.21 TO STA 2502+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-001

SHEET 129 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2497	2497+30	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2497-1	2497+68	60.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2499	2499+09	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2497	2497+84	61.5' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
GF-2498-1	2498+08	37.3' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2498-2	2498+69	22.9' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2497	2497+69	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2498-1	2498+43	26.0' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2498-2	2498+31	12.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2499	2499+16	26.0' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2497-1	2497+71	19.1' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2497-2	2497+71	5.0' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2499-1	2499+15	19.1' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2499-2	2499+15	5.1' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2427	SC-MH-2427	SC-MH-2497	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2499	SC-MH-2499	SC-MH-2509	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2497	SC-MH-2497	SC-MH-2499	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2497-1	SC-MH-2497	SC-MH-2497-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2497-2	SC-MH-2497	PF-2497	1-4	STU-DTL-001	SC CONDUIT
SC-2497-3	SC-MH-2497	GF-2498-1	1-4	STU-DTL-001	SC CONDUIT
SC-2497-4	SC-MH-2497	JB-2497-1	1-2	STU-DTL-001	SC CONDUIT
SC-2497-5	SC-MH-2497	JB-2497-2	1-2	STU-DTL-001	SC CONDUIT
SC-2499-1	SC-MH-2499	GF-2498-2	1-4	STU-DTL-001	SC CONDUIT
SC-2499-2	SC-MH-2499	PF-2499	1-4	STU-DTL-001	SC CONDUIT
SC-2499-3	SC-MH-2499	JB-2499-1	1-2	STU-DTL-001	SC CONDUIT
SC-2499-4	SC-MH-2499	JB-2499-2	1-2	STU-DTL-001	SC CONDUIT
SC-2499-5	SC-MH-2499	PF-2498-1	1-4	STU-DTL-001	SC CONDUIT
SC-2499-6	SC-MH-2499	PF-2498-2	1-4	STU-DTL-001	SC CONDUIT

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METROPOLITAN COUNCIL

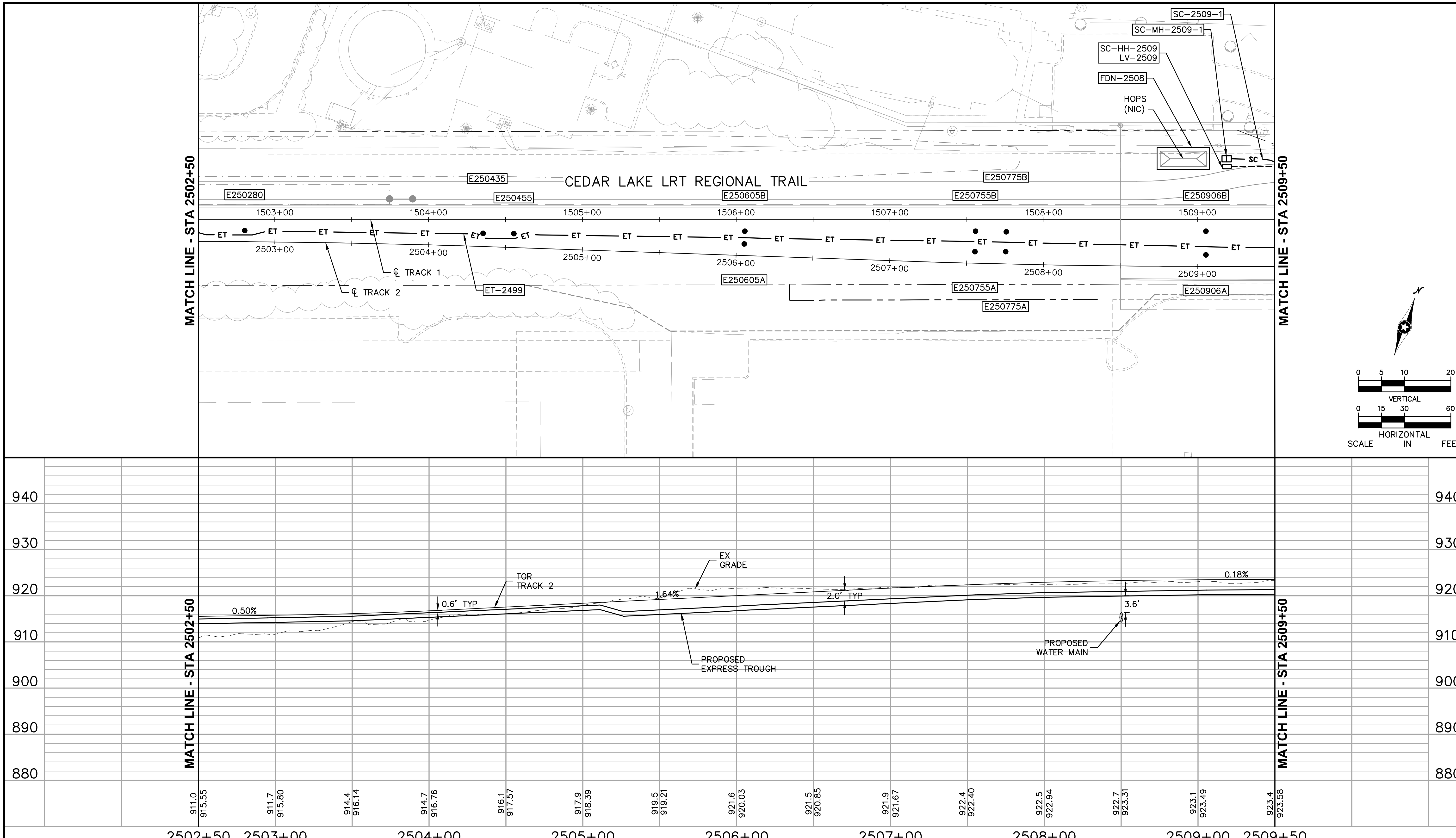
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2496+00.21 TO STA 2502+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-001

SHEET 130 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2502+50 TO STA 2509+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-002

SHEET 131 OF 464

Jan, 18 2016 07:53 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E1-SYS-SWE-PRF.dwg By: V-MccollAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2509-1	2509+19	70.0' L	SWE-DTL-003	SC MANHOLE
FDN-2508	2508+91	70.1' L	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
SC-HH-2509	2509+19	65.0' L	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2499	SC-MH-2499	SC-MH-2509	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2509-1	SC-MH-2509-1	SC-MH-2509	16-4	16/STU-DTL-001	SC DUCTBANK
LV-2509	SC-HH-2509	CSU-2512	1-2	STU-DTL-001	LV CONDUIT

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METROPOLITAN COUNCIL

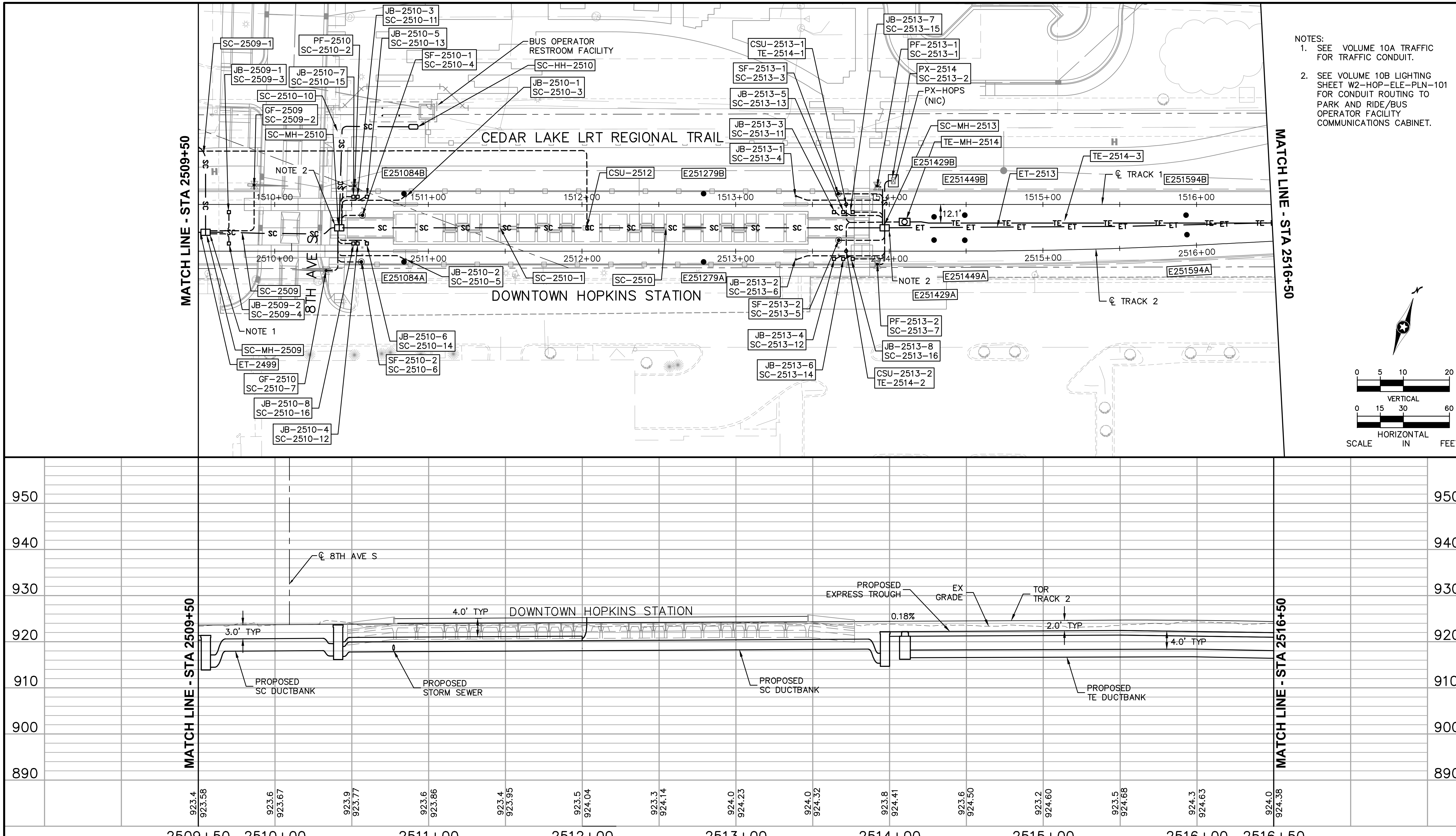
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2502+50 TO STA 2509+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-002

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-HOP-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE/BUS OPERATOR FACILITY COMMUNICATIONS CABINET.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2509+50 TO STA 2516+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-003

SHEET 133 OF 464

Jan, 18 2016 07:55 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E1-SYS-SWE-PRF.dwg By: V-MccallAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2510	2510+90	80.9' L	SWE-DTL-005	SC HANDHOLE
SC-MH-2509	2509+55	12.3' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2510	2510+42	15.2' L	SWE-DTL-003, NOTE 2	SC MANHOLE
SC-MH-2513	2513+97	15.2' L	SWE-DTL-003, NOTE 2	SC MANHOLE
GF-2509	2509+87	43.0' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2510	2510+33	12.7' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PX-2514	2514+03	45.7' L	SWE-DTL-SIG-008	LRT FLASHER CABINET FOUNDATION AND STUB UP
PF-2510	2510+52	42.4' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2513-1	2513+92	42.4' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2513-2	2513+92	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2510-1	2510+57	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2510-2	2510+56	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2513-1	2513+67	37.3' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2513-2	2513+67	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2509-1	2509+70	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2509-2	2509+70	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2510-1	2510+85	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2510-2	2510+85	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2510-3	2510+54	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2510-4	2510+54	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2510-5	2510+60	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2510-6	2510+60	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2510-7	2510+51	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2510-8	2510+51	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2513-1	2513+39	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2513-2	2513+39	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2513-3	2513+64	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2513-4	2513+64	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2513-5	2513+70	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2513-6	2513+70	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2513-7	2513+76	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2513-8	2513+76	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2512	2512+03	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2513-1	2513+72	30.4' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2513-2	2513+72	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
TE-MH-2514	2514+10	19.1' L	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2499	SC-MH-2499	SC-MH-2509	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2513	SC-MH-2513	SC-HH-2518	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2509	SC-MH-2509	SC-MH-2510	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2510	SC-MH-2510	SC-MH-2513	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2510-1	SC-MH-2510	CSU-2512	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2509-1	SC-MH-2509-1	SC-MH-2509	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2513-2	PX-2514	SC-MH-2513	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2510-10	SC-MH-2510	SC-HH-2510	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2509-2	SC-MH-2509	GF-2509	1-4	STU-DTL-001	SC CONDUIT
SC-2509-3	SC-MH-2509	JB-2509-1	1-2	STU-DTL-001	SC CONDUIT
SC-2509-4	SC-MH-2509	JB-2509-2	1-2	STU-DTL-001	SC CONDUIT
SC-2510-2	SC-MH-2510	PF-2510	1-4	STU-DTL-001	SC CONDUIT
SC-2510-3	SC-MH-2510	JB-2510-1	1-2	STU-DTL-001	SC CONDUIT
SC-2510-4	SC-MH-2510	SF-2510-1	1-2	STU-DTL-001	SC CONDUIT
SC-2510-5	SC-MH-2510	JB-2510-2	1-2	STU-DTL-001	SC CONDUIT
SC-2510-6	SC-MH-2510	SF-2510-2	1-2	STU-DTL-001	SC CONDUIT
SC-2510-7	SC-MH-2510	GF-2510	1-4	STU-DTL-001	SC CONDUIT
SC-2510-11	SC-MH-2510	JB-2510-3	1-2	STU-DTL-001	SC CONDUIT
SC-2510-12	SC-MH-2510	JB-2510-4	1-2	STU-DTL-001	SC CONDUIT
SC-2510-13	SC-MH-2510	JB-2510-5	1-2	STU-DTL-001	SC CONDUIT
SC-2510-14	SC-MH-2510	JB-2510-6	1-2	STU-DTL-001	SC CONDUIT
SC-2510-15	SC-MH-2510	JB-2510-7	1-2	STU-DTL-001	SC CONDUIT
SC-2510-16	SC-MH-2510	JB-2510-8	1-2	STU-DTL-001	SC CONDUIT
SC-2513-1	SC-MH-2513	PF-2513-1	1-4	STU-DTL-001	SC CONDUIT
SC-2513-3	SC-MH-2513	SF-2513-1	1-2	STU-DTL-001	SC CONDUIT
SC-2513-4	SC-MH-2513	JB-2513-1	1-2	STU-DTL-001	SC CONDUIT
SC-2513-5	SC-MH-2513	SF-2513-2	1-2	STU-DTL-001	SC CONDUIT
SC-2513-6	SC-MH-2513	JB-2513-2	1-2	STU-DTL-001	SC CONDUIT
SC-2513-7	SC-MH-2513	PF-2513-2	1-4	STU-DTL-001	SC CONDUIT
SC-2513-11	SC-MH-2513	JB-2513-3	1-2	STU-DTL-001	SC CONDUIT
SC-2513-12	SC-MH-2513	JB-2513-4	1-2	STU-DTL-001	SC CONDUIT
SC-2513-13	SC-MH-2513	JB-2513-5	1-2	STU-DTL-001	SC CONDUIT
SC-2513-14	SC-MH-2513	JB-2513-6	1-2	STU-DTL-001	SC CONDUIT
SC-2513-15	SC-MH-2513	JB-2513-7	1-2	STU-DTL-001	SC CONDUIT
SC-2513-16	SC-MH-2513	JB-2513-8	1-2	STU-DTL-001	SC CONDUIT
TE-2514-3	TE-MH-2514	TE-MH-2517	4-5	4A/STU-DTL-002	TE DUCTBANK
TE-2514-1	TE-MH-2514	CSU-2513-1	1-5	STU-DTL-002	TE CONDUIT
TE-2514-2	TE-MH-2514	CSU-2513-2	1-5	STU-DTL-002	TE CONDUIT
LV-2509	SC-HH-2509	CSU-2512	1-2	STU-DTL-001	LV CONDUIT

NOTES:

1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-HOP-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE/BUS OPERATOR FACILITY COMMUNICATIONS CABINET.

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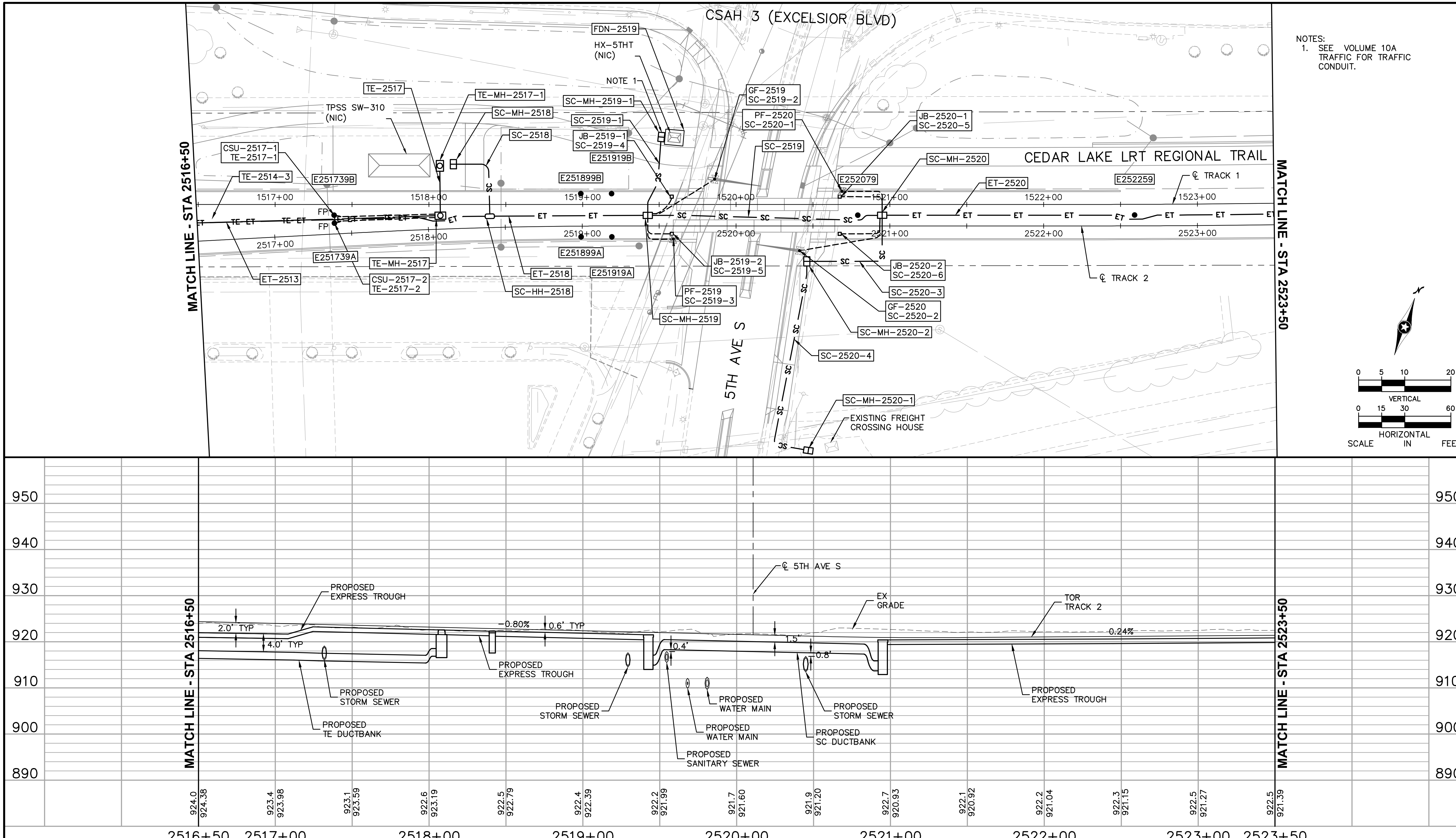
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2509+50 TO STA 2516+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-003



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2516+50 TO STA 2523+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-004

SHEET 135 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2518	2518+18	42.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2519	2519+43	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2519-1	2519+51	58.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2520	2520+95	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2520-1	2520+47	146.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2520-2	2520+46	23.0' R	SWE-DTL-003	SC MANHOLE
SC-HH-2518	2518+40	7.4' L	SWE-DTL-005	SC HANDHOLE
GF-2519	2519+86	30.4' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2520	2520+41	16.1' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2519	2519+59	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2520	2520+69	22.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
CSU-2517-1	2517+39	12.2' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2517-2	2517+39	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
FDN-2519	2519+60	57.5' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
TE-MH-2517	2518+08	8.7' L	SWE-DTL-002	TE MANHOLE
TE-MH-2517-1	2518+09	41.2' L	SWE-DTL-002	TE MANHOLE
JB-2519-1	2519+58	19.1' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2519-2	2519+58	5.1' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2520-1	2520+67	19.1' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2520-2	2520+67	5.1' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2513	SC-MH-2513	SC-HH-2518	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2518	SC-HH-2518	SC-MH-2519	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2520	SC-MH-2520	SC-MH-2535	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2519	SC-MH-2519	SC-MH-2520	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2518	SC-HH-2518	SC-MH-2518	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2519-1	SC-MH-2519	SC-MH-2519-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2520-3	SC-MH-2520	SC-MH-2520-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2520-4	SC-MH-2520-2	SC-MH-2520-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2519-2	SC-MH-2519	GF-2519	1-4	STU-DTL-001	SC CONDUIT
SC-2519-3	SC-MH-2519	PF-2519	1-4	STU-DTL-001	SC CONDUIT
SC-2519-4	SC-MH-2519	JB-2519-1	1-2	STU-DTL-001	SC CONDUIT
SC-2519-5	SC-MH-2519	JB-2519-2	1-2	STU-DTL-001	SC CONDUIT
SC-2520-1	SC-MH-2520	PF-2520	1-4	STU-DTL-001	SC CONDUIT
SC-2520-2	SC-MH-2520	GF-2520	1-4	STU-DTL-001	SC CONDUIT
SC-2520-5	SC-MH-2520	JB-2520-1	1-2	STU-DTL-001	SC CONDUIT
SC-2520-6	SC-MH-2520	JB-2520-2	1-2	STU-DTL-001	SC CONDUIT
TE-2514-3	TE-MH-2514	TE-MH-2517	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2517	TE-MH-2517	TE-MH-2517-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2517-1	TE-MH-2517	CSU-2517-1	2-4	STU-DTL-002	TE CONDUIT
TE-2517-2	TE-MH-2517	CSU-2517-2	2-4	STU-DTL-002	TE CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

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90% SUBMISSION - 01/22/16

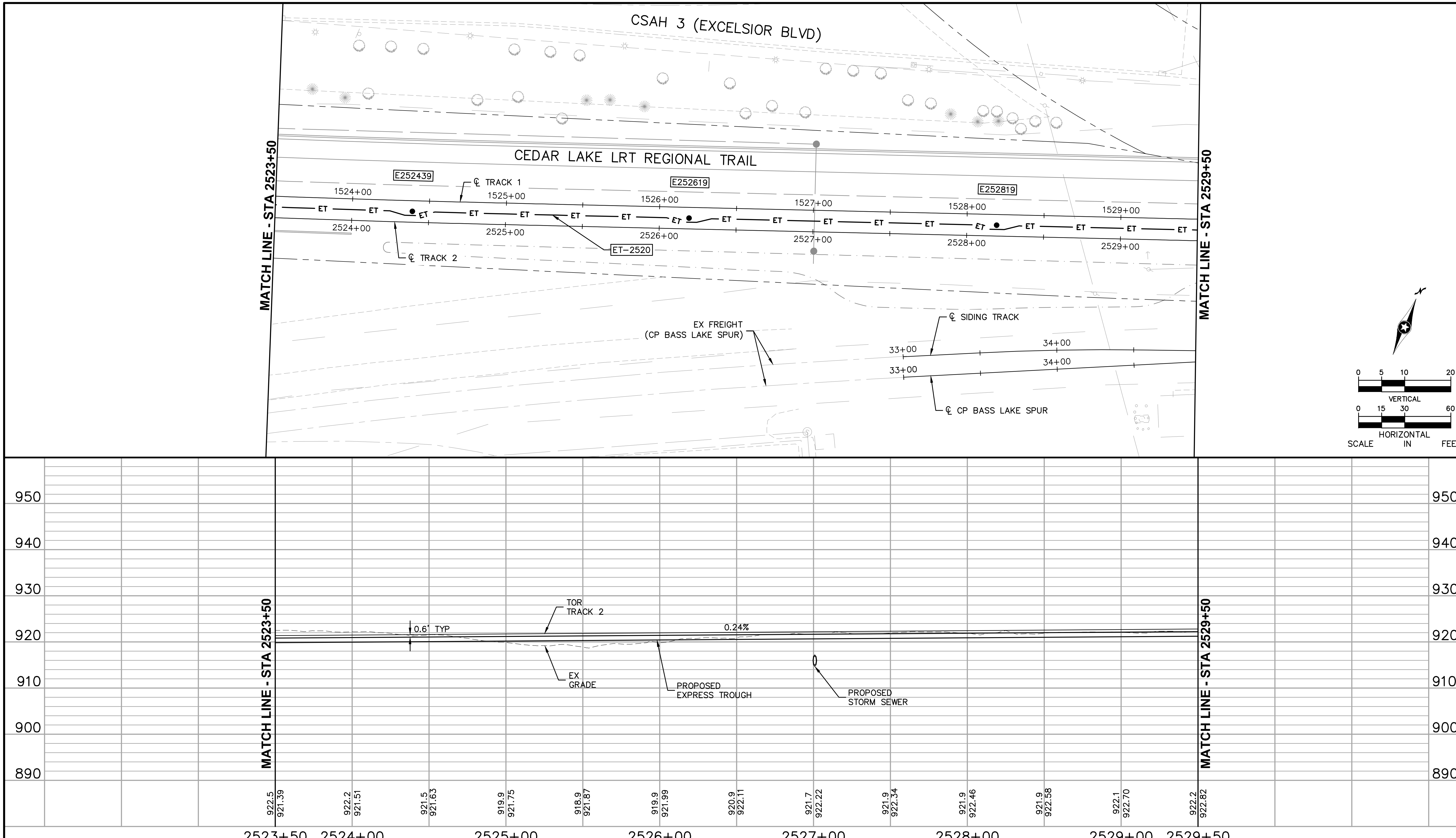
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2516+50 TO STA 2523+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-004



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2523+50 TO STA 2529+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-005

SHEET 137 OF 464

Jan, 18 2016 07:59 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E1-SYS-SWE-PRF.dwg By: V-MccallAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2520	SC-MH-2520	SC-MH-2535	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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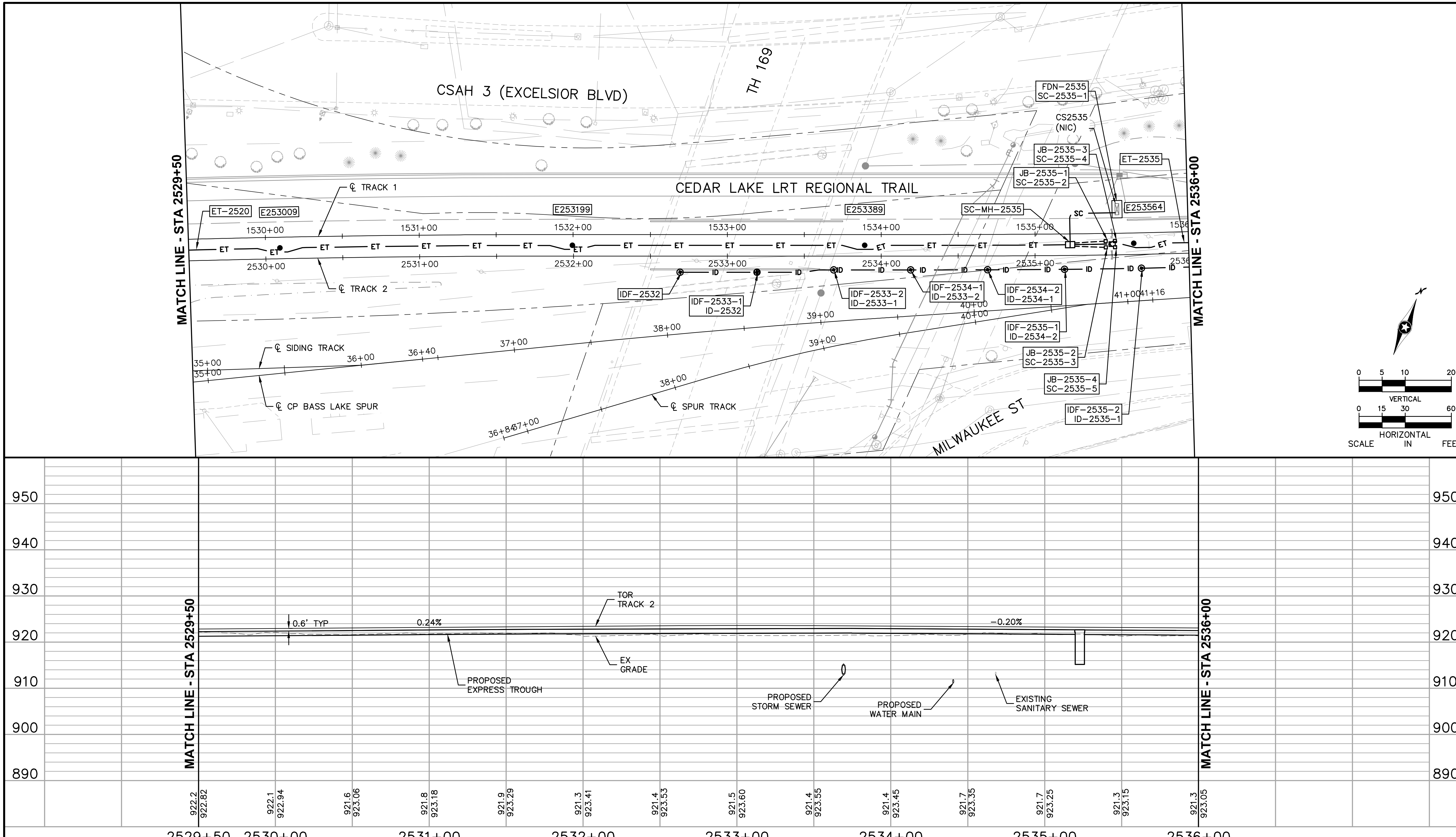
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2523+50 TO STA 2329+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-005



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2529+50 TO STA 2536+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-006

SHEET 139 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2535	2535+23	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2535	2535+54	29.7' L	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
IDF-2532	2532+69	10.5' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2533-1	2533+19	10.5' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2533-2	2533+69	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2534-1	2534+19	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2534-2	2534+69	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2535-1	2535+19	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2535-2	2535+69	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2535-1	2535+46	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2535-2	2535+46	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2535-3	2535+52	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2535-4	2535+52	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2520	SC-MH-2520	SC-MH-2535	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2535	SC-MH-2535	SC-HH-2540-2	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2535-1	SC-MH-2535	FDN-2535	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2535-2	SC-MH-2535	JB-2535-1	1-2	STU-DTL-001	SC CONDUIT
SC-2535-3	SC-MH-2535	JB-2535-2	1-2	STU-DTL-001	SC CONDUIT
SC-2535-4	SC-MH-2535	JB-2535-3	1-2	STU-DTL-001	SC CONDUIT
SC-2535-5	SC-MH-2535	JB-2535-4	1-2	STU-DTL-001	SC CONDUIT
ID-2532	IDF-2532	IDF-2533-1	1-2	STU-DTL-001	ID CONDUIT
ID-2533-1	IDF-2533-1	IDF-2533-2	1-2	STU-DTL-001	ID CONDUIT
ID-2533-2	IDF-2533-2	IDF-2534-1	1-2	STU-DTL-001	ID CONDUIT
ID-2534-1	IDF-2534-1	IDF-2534-2	1-2	STU-DTL-001	ID CONDUIT
ID-2534-2	IDF-2534-2	IDF-2535-1	1-2	STU-DTL-001	ID CONDUIT
ID-2535-1	IDF-2535-1	IDF-2535-2	1-2	STU-DTL-001	ID CONDUIT

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METROPOLITAN COUNCIL

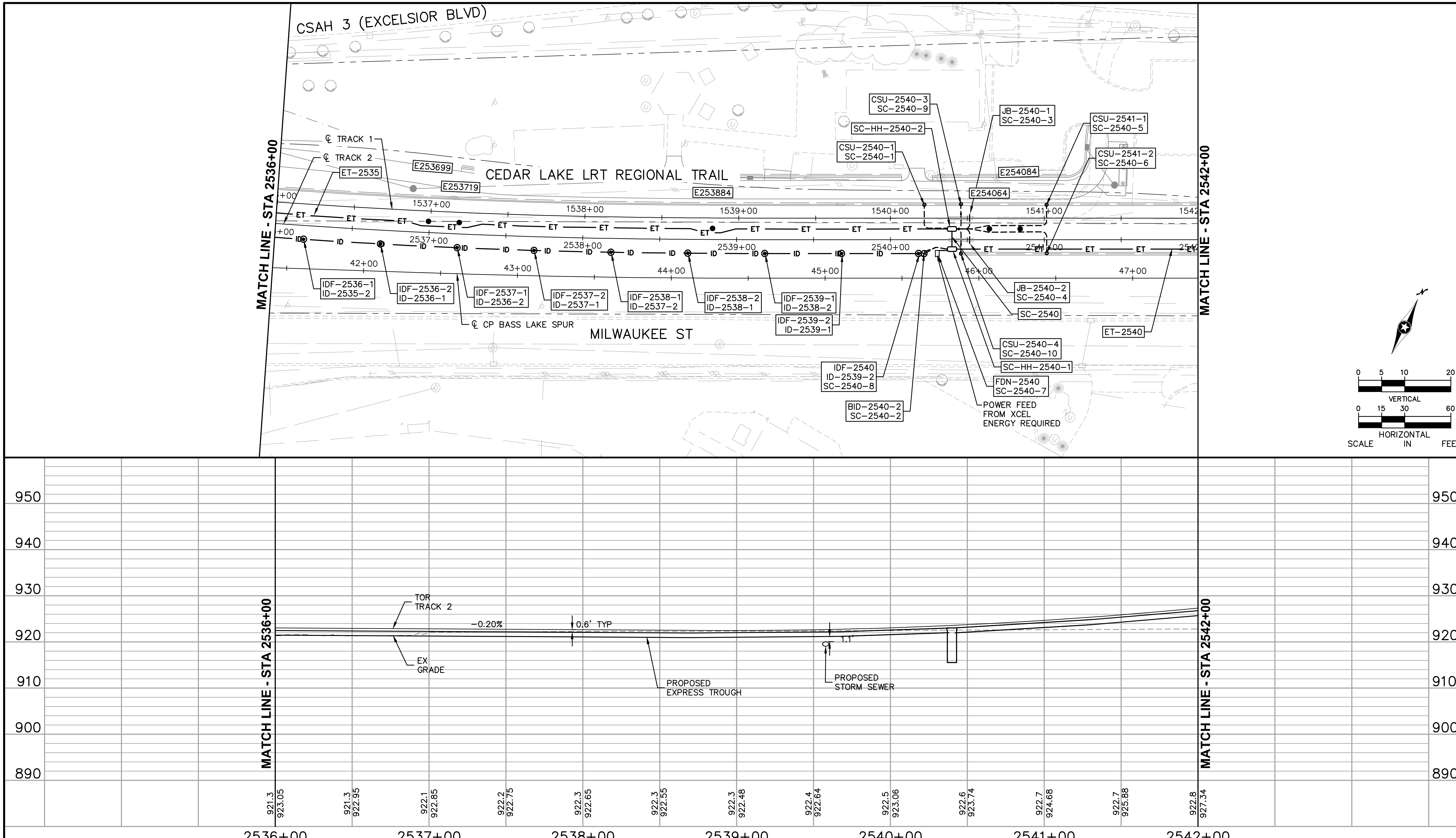
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2529+50 TO STA 2536+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-006

SHEET 140 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2536+00 TO STA 2542+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-007

SHEET 141 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2540-1	2540+40	6.1' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2540-2	2540+40	7.0' L	SWE-DTL-005	SC HANDHOLE
FDN-2540	2540+30	9.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
CSU-2540-1	2540+22	23.1' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2540-3	2540+46	23.1' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2540-4	2540+46	9.0' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2541-1	2541+01	22.7' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2541-2	2541+01	8.7' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
BID-2540-2	2540+22	9.0' R	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
IDF-2536-1	2536+19	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2536-2	2536+69	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2537-1	2537+19	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2537-2	2537+69	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2538-1	2538+18	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2538-2	2538+68	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2539-1	2539+18	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2539-2	2539+68	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2540	2540+18	9.0' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2540-1	2540+51	17.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2540-2	2540+51	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2535	SC-MH-2535	SC-HH-2540-2	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2540	SC-HH-2540-1	SC-HH-2563-1	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2540	SC-HH-2540-1	SC-HH-2540-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2540-1	SC-HH-2540-2	CSU-2540-1	1-2	STU-DTL-001	SC CONDUIT
SC-2540-2	SC-HH-2540-1	BID-2540-2	1-2	STU-DTL-001	SC CONDUIT
SC-2540-3	SC-HH-2540-2	JB-2540-1	1-2	STU-DTL-001	SC CONDUIT
SC-2540-4	SC-HH-2540-2	JB-2540-2	1-2	STU-DTL-001	SC CONDUIT
SC-2540-5	SC-HH-2540-2	CSU-2541-1	1-2	STU-DTL-001	SC CONDUIT
SC-2540-6	SC-HH-2540-2	CSU-2541-2	1-2	STU-DTL-001	SC CONDUIT
SC-2540-7	SC-HH-2540-1	FDN-2540	4-2	STU-DTL-001	SC CONDUIT
SC-2540-8	SC-HH-2540-1	IDF-2540	1-2	STU-DTL-001	SC CONDUIT
SC-2540-9	SC-HH-2540-2	CSU-2540-3	1-2	STU-DTL-001	SC CONDUIT
SC-2540-10	SC-HH-2540-2	CSU-2540-4	1-2	STU-DTL-001	SC CONDUIT
ID-2535-2	IDF-2535-2	IDF-2536-1	1-2	STU-DTL-001	ID CONDUIT
ID-2536-1	IDF-2536-1	IDF-2536-2	1-2	STU-DTL-001	ID CONDUIT
ID-2536-2	IDF-2536-2	IDF-2537-1	1-2	STU-DTL-001	ID CONDUIT
ID-2537-1	IDF-2537-1	IDF-2537-2	1-2	STU-DTL-001	ID CONDUIT
ID-2537-2	IDF-2537-2	IDF-2538-1	1-2	STU-DTL-001	ID CONDUIT
ID-2538-1	IDF-2538-1	IDF-2538-2	1-2	STU-DTL-001	ID CONDUIT
ID-2538-2	IDF-2538-2	IDF-2539-1	1-2	STU-DTL-001	ID CONDUIT
ID-2539-1	IDF-2539-1	IDF-2539-2	1-2	STU-DTL-001	ID CONDUIT
ID-2539-2	IDF-2539-2	IDF-2540	1-2	STU-DTL-001	ID CONDUIT

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

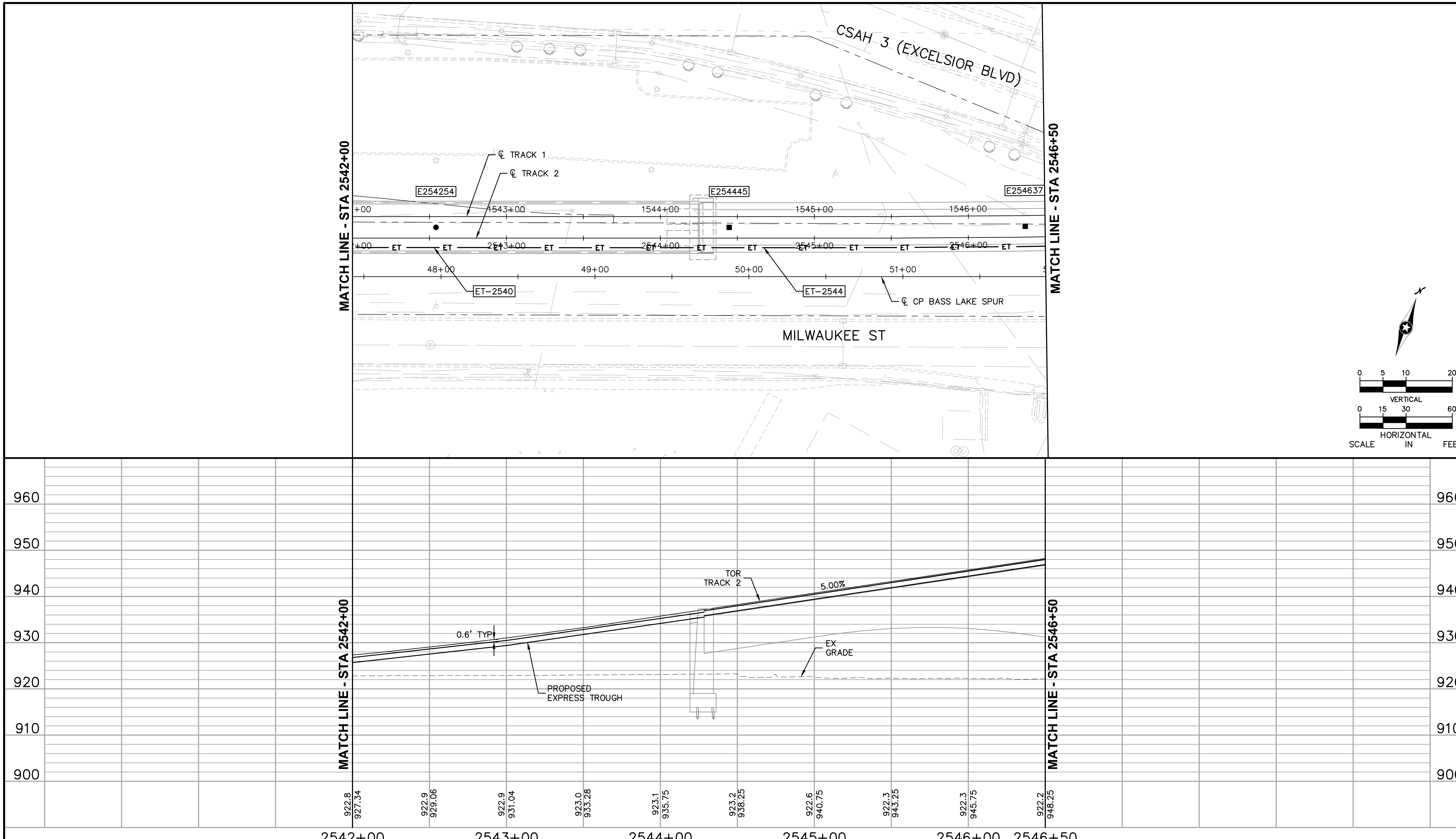
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2536+00 TO STA 2542+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-007



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2542+00 TO STA 2546+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-008

SHEET 143 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2540	SC-HH-2540-1	WEST ABUTMENT	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2544	WEST ABUTMENT	EAST ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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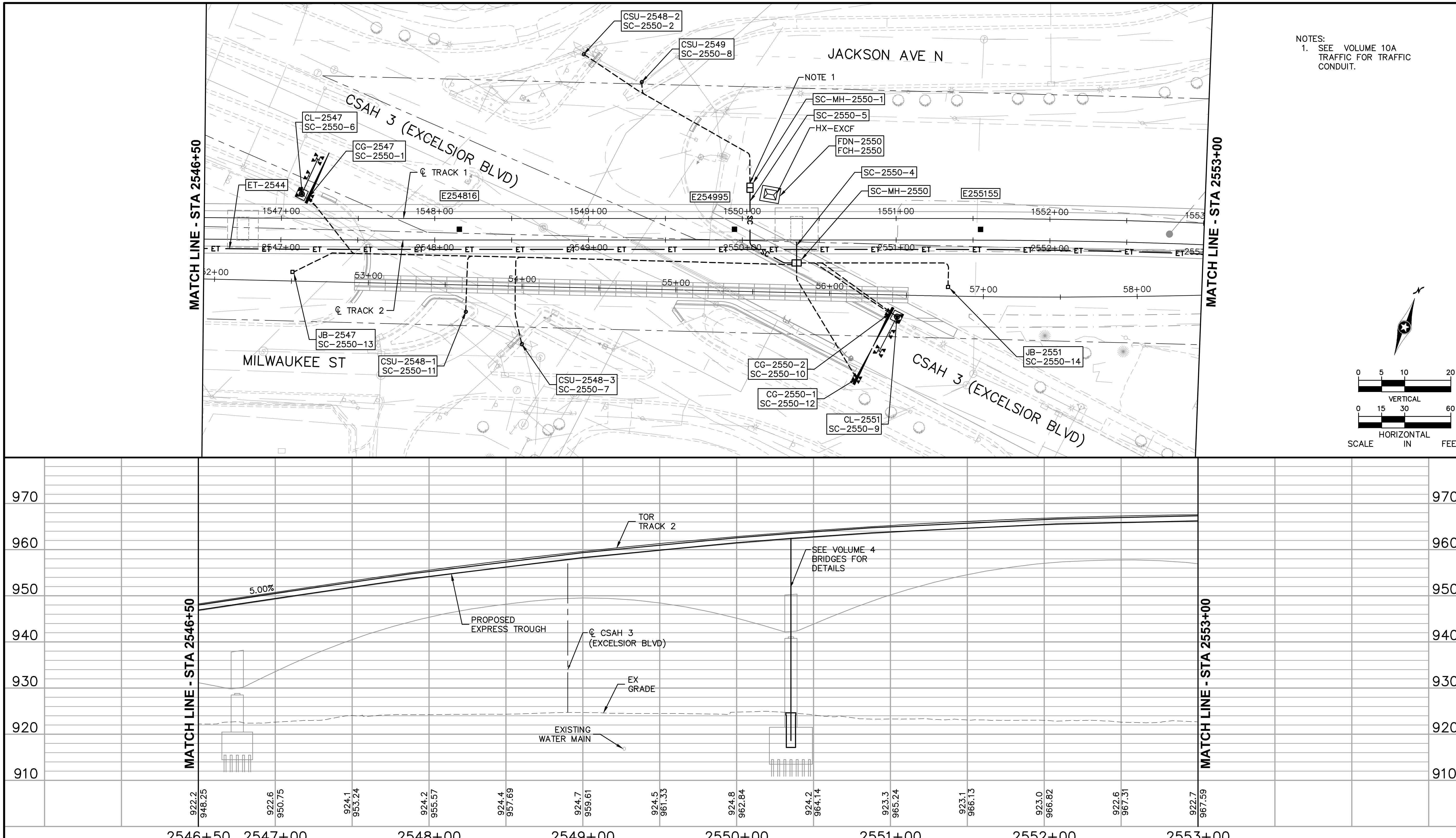
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2542+00 TO STA 2546+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-008



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2546+50 TO STA 2553+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-009

SHEET 145 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2550	2550+35	15.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2550-1	2550+05	34.0' L	SWE-DTL-003, NOTE 1	SC MANHOLE
FDN-2550	2550+18	29.6' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
CG-2547	2547+18	27.8' L	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CG-2550-1	2550+74	90.1' R	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CG-2550-2	2550+96	47.7' R	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CSU-2548-1	2548+20	46.8' R	3/SWE-DTL-012	CONDUIT STUB UP FOR EXISTING FLASHER
CSU-2548-2	2548+97	120.8' L	3/SWE-DTL-012	CONDUIT STUB UP FOR EXISTING GATE
CSU-2548-3	2548+57	67.8' R	3/SWE-DTL-012	CONDUIT STUB UP FOR EXISTING GATE
CSU-2549	2549+35	102.6' L	3/SWE-DTL-012	CONDUIT STUB UP FOR EXISTING FLASHER
FCH-2550	2550+18	29.6' L	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE
CL-2547	2547+13	29.8' L	SWE-DTL-SIG-028 & 029	FREIGHT WALKOUT CANTILEVER SIGNAL
CL-2551	2551+00	50.0' R	SWE-DTL-SIG-028 & 029	FREIGHT WALKOUT CANTILEVER SIGNAL
JB-2547	2547+08	21.0' R	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2551	2551+34	30.5' R	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2544	WEST ABUTMENT	EAST ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
SC-2550-4	SC-MH-2550	ET-2544	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2550-5	SC-MH-2550	SC-MH-2550-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2550-1	SC-MH-2550	CG-2547	2-4	STU-DTL-001	SC CONDUIT
SC-2550-2	SC-MH-2550-1	CSU-2548-2	1-4	STU-DTL-001	SC CONDUIT
SC-2550-6	SC-MH-2550	CL-2547	2-4	STU-DTL-001	SC CONDUIT
SC-2550-7	SC-MH-2550	CSU-2548-3	1-4	STU-DTL-001	SC CONDUIT
SC-2550-8	SC-MH-2550-1	CSU-2549	1-4	STU-DTL-001	SC CONDUIT
SC-2550-9	SC-MH-2550	CL-2551	2-4	STU-DTL-001	SC CONDUIT
SC-2550-10	SC-MH-2550	CG-2550-2	2-4	STU-DTL-001	SC CONDUIT
SC-2550-11	SC-MH-2550	CSU-2548-1	1-4	STU-DTL-001	SC CONDUIT
SC-2550-12	SC-MH-2550	CG-2550-1	2-4	STU-DTL-001	SC CONDUIT
SC-2550-13	SC-MH-2550	JB-2547	1-2	STU-DTL-001	SC CONDUIT
SC-2550-14	SC-MH-2550	JB-2551	1-2	STU-DTL-001	SC CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2546+50 TO STA 2553+00

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-009

SHEET 146 OF 464

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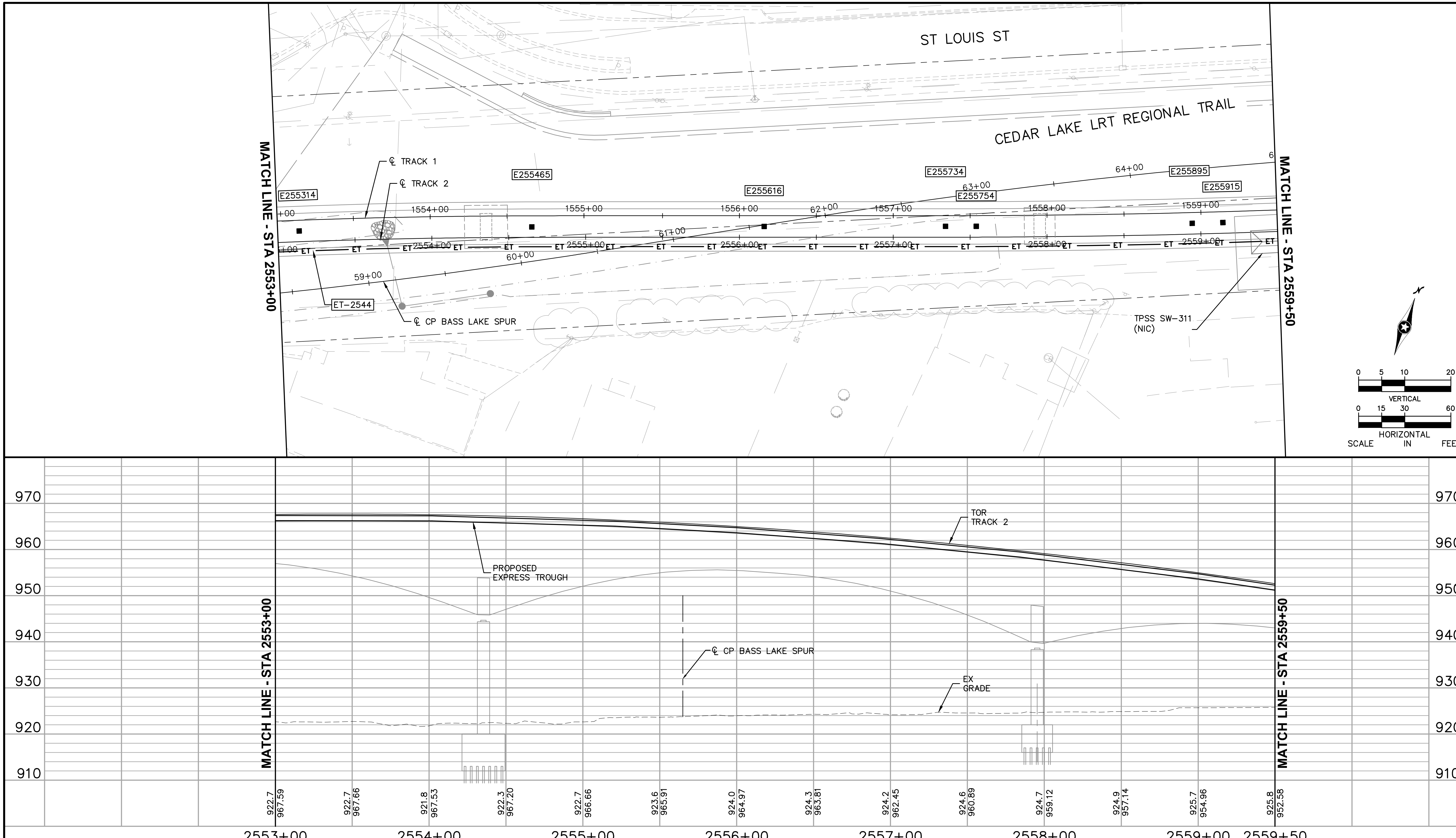

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2553+00 TO STA 2559+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-010

SHEET 147 OF 464

Jan, 18 2016 08:09 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E1-SYS-SWE-PRF.dwg By: V-MccollAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2544	WEST ABUTMENT	EAST ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

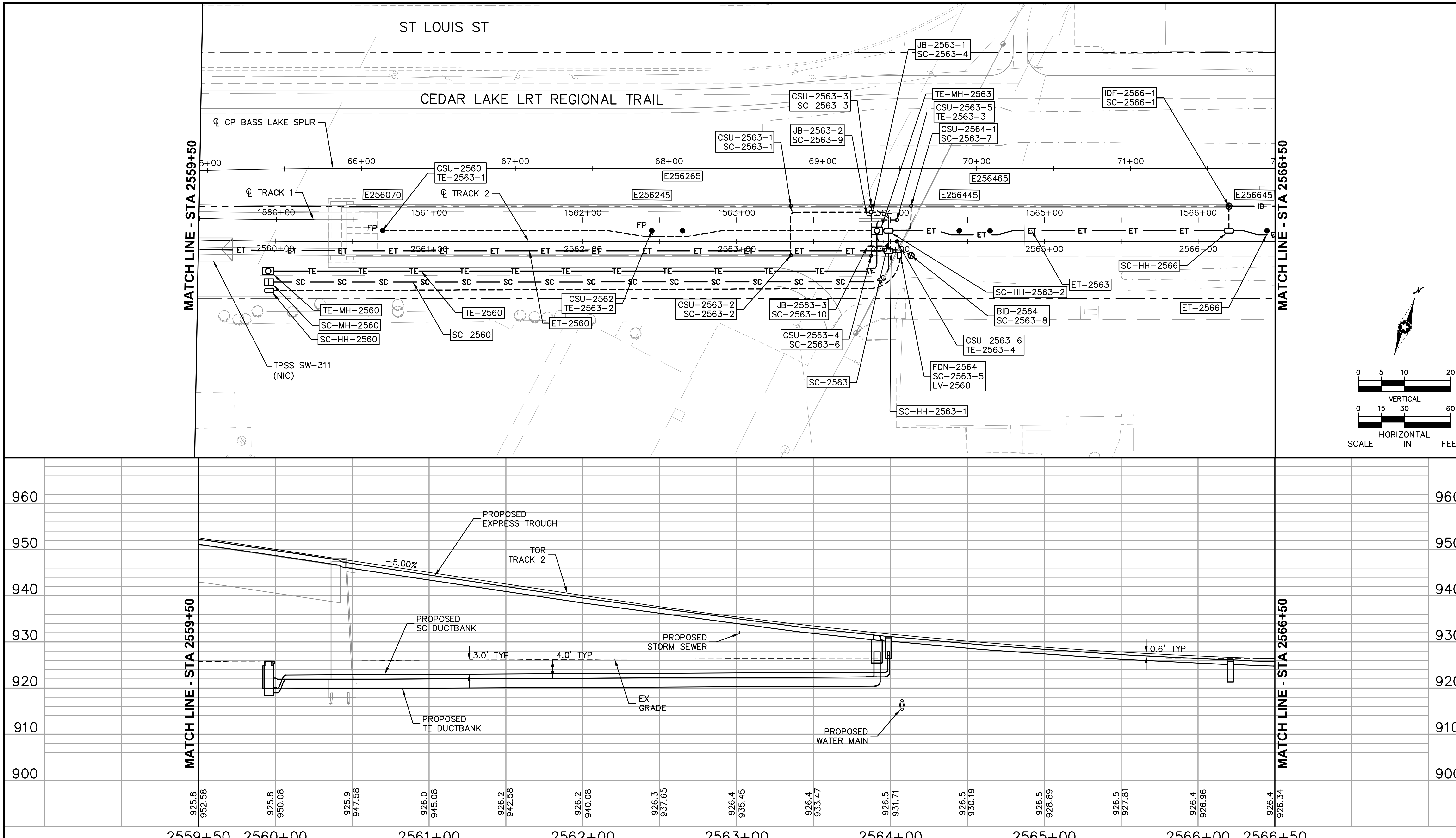
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2553+00 TO STA 2559+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-010

SHEET 148 OF 464



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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2559+50 TO STA 2566+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-011

SHEET 149 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2560	2559+96	26.6' R	SWE-DTL-003	SC MANHOLE
SC-HH-2560	2559+96	32.2' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2563-1	2563+99	6.1' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2563-2	2563+99	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2566	2566+20	7.0' L	SWE-DTL-005	SC HANDHOLE
FDN-2564	2564+06	9.0' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2563-1	2563+87	19.1' L	1/SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2563-2	2563+85	16.9' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2563-3	2563+85	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
CSU-2560	2560+70	7.1' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2562	2562+45	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2563-1	2563+35	23.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2563-2	2563+35	9.1' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2563-3	2563+87	23.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2563-4	2563+87	9.1' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2563-5	2564+04	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2563-6	2564+04	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2564-1	2564+13	23.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
BID-2564	2564+13	9.1' R	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
IDF-2566-1	2566+20	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
TE-MH-2560	2559+96	19.6' R	SWE-DTL-002	TE MANHOLE
TE-MH-2563	2563+91	7.0' L	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2544	WEST ABUTMENT	EAST ABUTMENT	TYPE IV	4/SWE-DTL-010	EXPRESS TROUGH
ET-2560	EAST ABUTMENT	SC-HH-2563-1	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2563	SC-HH-2563-2	SC-HH-2566	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2566	SC-HH-2566	SC-HH-2571	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2560	SC-MH-2560	SC-HH-2563-1	2-4	2/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2563	SC-HH-2563-1	SC-HH-2563-2	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2563-1	JB-2563-1	CSU-2563-1	1-2	STU-DTL-001	SC CONDUIT
SC-2563-2	JB-2563-1	CSU-2563-2	1-2	STU-DTL-001	SC CONDUIT
SC-2563-3	JB-2563-1	CSU-2563-3	1-2	STU-DTL-001	SC CONDUIT
SC-2563-4	SC-HH-2563-2	JB-2563-1	1-4	STU-DTL-001	SC CONDUIT
SC-2563-5	SC-HH-2563-1	FDN-2564	4-2	STU-DTL-001	SC CONDUIT
SC-2563-6	JB-2563-1	CSU-2563-4	1-2	STU-DTL-001	SC CONDUIT
SC-2563-7	SC-MH-2563-2	CSU-2564-1	1-2	STU-DTL-001	SC CONDUIT
SC-2563-8	SC-HH-2563-1	BID-2564	1-2	STU-DTL-001	SC CONDUIT
SC-2563-9	SC-HH-2563-2	JB-2563-2	1-2	STU-DTL-001	SC CONDUIT
SC-2563-10	SC-HH-2563-2	JB-2563-3	1-2	STU-DTL-001	SC CONDUIT
SC-2566-1	SC-HH-2566	IDF-2566-1	1-2	STU-DTL-001	SC CONDUIT
TE-2560	TE-MH-2560	TE-MH-2563	10-5	10/STU-DTL-002	MAINLINE TE DUCTBANK
TE-2563-1	TE-MH-2563	CSU-2560	2-4	STU-DTL-002	TE CONDUIT
TE-2563-2	TE-MH-2563	CSU-2562	2-4	STU-DTL-002	TE CONDUIT
TE-2563-3	TE-MH-2563	CSU-2563-5	1-5	STU-DTL-002	TE CONDUIT
TE-2563-4	TE-MH-2563	CSU-2563-6	1-5	STU-DTL-002	TE CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

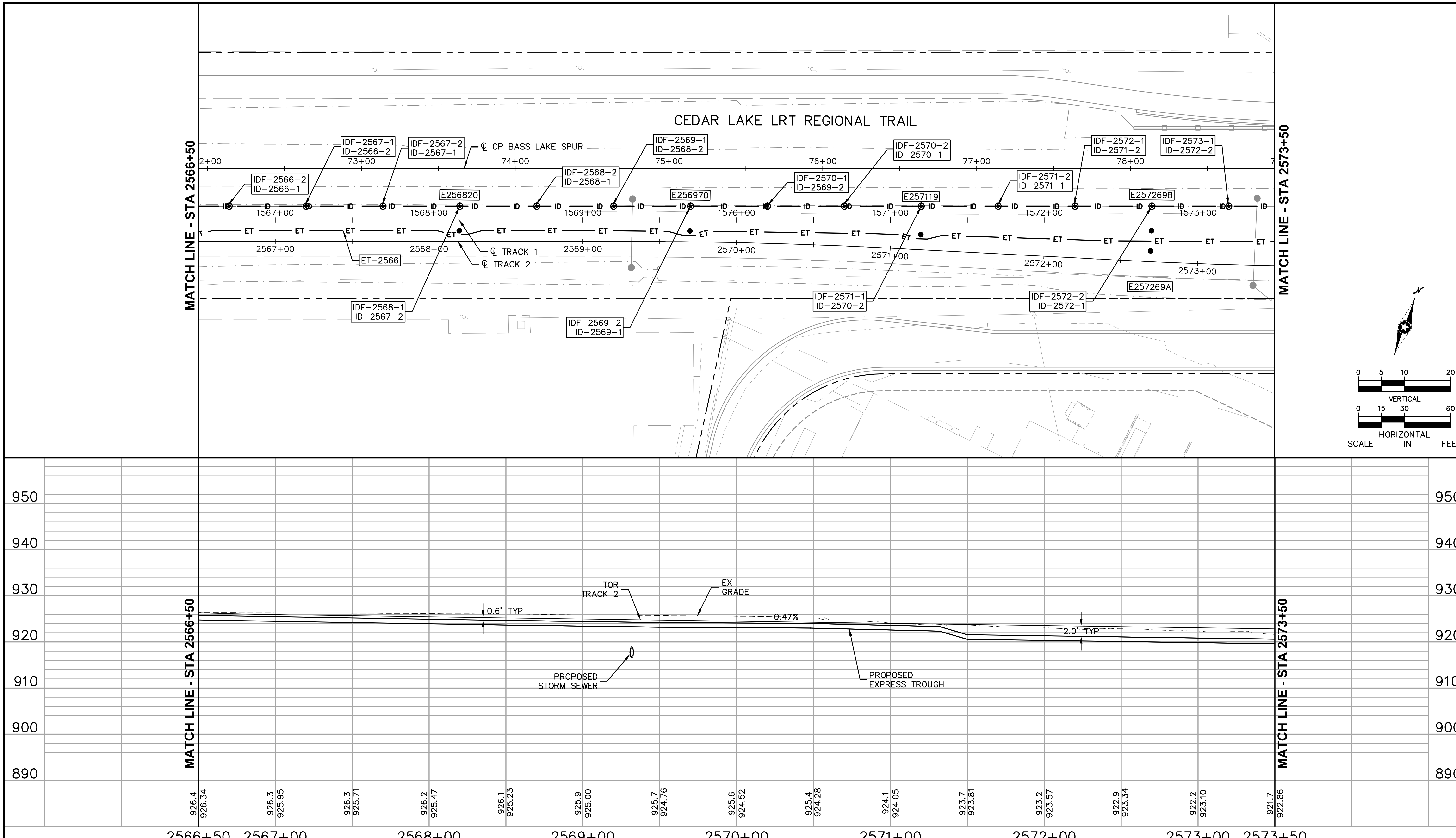
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2559+50 TO STA 2566+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-011

SHEET 150 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2566+50 TO STA 2573+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-012

SHEET 151 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2566-2	2566+70	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2567-1	2567+20	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2567-2	2567+70	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2568-1	2568+20	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2568-2	2568+70	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2569-1	2569+20	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2569-2	2569+70	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2570-1	2570+19	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2570-2	2570+69	25.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2571-1	2571+19	28.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2571-2	2571+69	31.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2572-1	2572+18	33.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2572-2	2572+69	36.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2573-1	2573+19	38.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2566	SC-HH-2566	SC-MH-2574	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2566-1	IDF-2566-1	IDF-2566-2	1-2	STU-DTL-001	ID CONDUIT
ID-2566-2	IDF-2566-2	IDF-2567-1	1-2	STU-DTL-001	ID CONDUIT
ID-2567-1	IDF-2567-1	IDF-2567-2	1-2	STU-DTL-001	ID CONDUIT
ID-2567-2	IDF-2567-2	IDF-2568-1	1-2	STU-DTL-001	ID CONDUIT
ID-2568-1	IDF-2568-1	IDF-2568-2	1-2	STU-DTL-001	ID CONDUIT
ID-2568-2	IDF-2568-2	IDF-2569-1	1-2	STU-DTL-001	ID CONDUIT
ID-2569-1	IDF-2569-1	IDF-2569-2	1-2	STU-DTL-001	ID CONDUIT
ID-2569-2	IDF-2569-2	IDF-2570-1	1-2	STU-DTL-001	ID CONDUIT
ID-2570-1	IDF-2570-1	IDF-2570-2	1-2	STU-DTL-001	ID CONDUIT
ID-2570-2	IDF-2570-2	IDF-2571-1	1-2	STU-DTL-001	ID CONDUIT
ID-2571-1	IDF-2571-1	IDF-2571-2	1-2	STU-DTL-001	ID CONDUIT
ID-2571-2	IDF-2571-2	IDF-2572-1	1-2	STU-DTL-001	ID CONDUIT
ID-2572-1	IDF-2572-1	IDF-2572-2	1-2	STU-DTL-001	ID CONDUIT
ID-2572-2	IDF-2572-2	IDF-2573-1	1-2	STU-DTL-001	ID CONDUIT

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METROPOLITAN COUNCIL

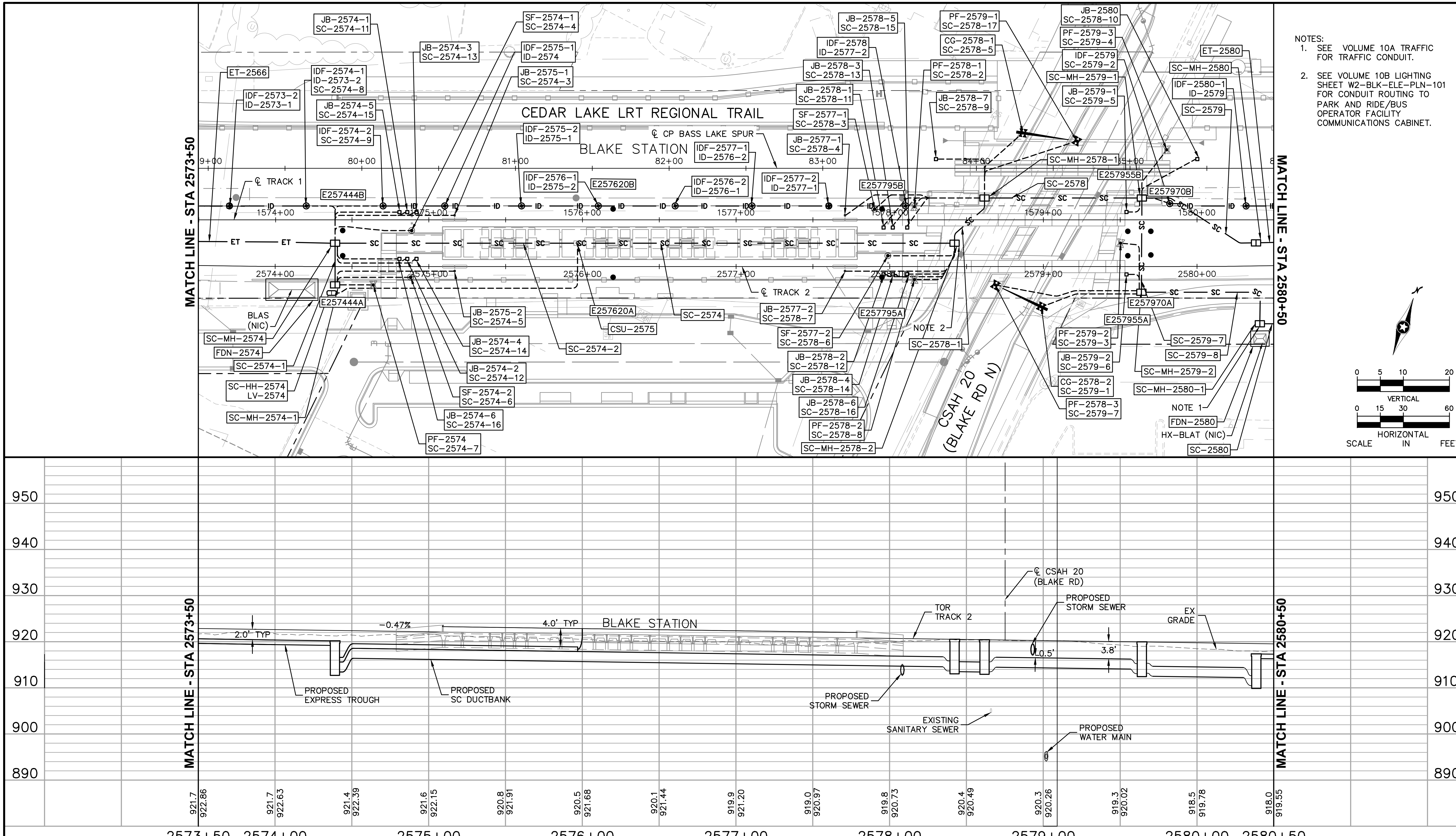
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2566+50 TO STA 2573+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-012



NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-BLK-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE/BUS OPERATOR FACILITY COMMUNICATIONS CABINET.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2573+50 TO STA 2580+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-013

SHEET 153 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2574	2574+39	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2574-1	2574+39	11.9' R	SWE-DTL-003	SC MANHOLE
SC-MH-2578-1	2578+62	44.5' L	SWE-DTL-003	SC MANHOLE
SC-MH-2578-2	2578+42	15.2' L	SWE-DTL-003, NOTE 2	SC MANHOLE
SC-MH-2579-1	2579+64	44.5' L	SWE-DTL-003	SC MANHOLE
SC-MH-2579-2	2579+64	16.8' R	SWE-DTL-003	SC MANHOLE
SC-MH-2580	2580+39	15.1' L	SWE-DTL-003	SC MANHOLE
SC-MH-2580-1	2580+40	37.6' R	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-HH-2574	2574+37	17.3' R	SWE-DTL-005	SC HANDHOLE
FDN-2574	2574+11	15.1' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2580	2580+40	47.2' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
SF-2574-1	2574+89	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2574-2	2574+88	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2577-1	2577+90	37.2' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2577-2	2577+99	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
CG-2578-1	2578+87	86.9' L	SWE-DTL-010	FREIGHT CROSSING GATE
CG-2578-2	2578+99	26.3' R	SWE-DTL-010	FREIGHT CROSSING GATE
PF-2574	2574+64	12.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2578-1	2578+16	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2578-2	2578+16	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2578-3	2578+69	12.0' R	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2579-1	2579+22	81.6' L	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2579-2	2579+50	15.2' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2579-3	2579+80	75.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2574-1	2574+86	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2574-2	2574+86	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2574-3	2574+92	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2574-4	2574+92	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2574-5	2574+81	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2574-6	2574+81	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2575-1	2575+17	33.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2575-2	2575+17	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2577-1	2577+71	33.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2577-2	2577+71	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2578-1	2577+96	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2578-2	2577+96	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2578-3	2578+02	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2578-4	2578+02	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2578-5	2578+11	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2578-6	2578+11	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2578-7	2578+30	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2579-1	2579+54	35.5' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2579-2	2579+54	5.1' R	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2580	2580+00	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
CSU-2575	2575+97	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
IDF-2573-2	2573+70	39.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2574-1	2574+20	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2574-2	2574+70	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2575-1	2575+10	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2575-2	2575+60	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2576-1	2576+10	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2576-2	2576+60	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2577-1	2577+10	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2577-2	2577+60	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2578	2578+10	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2579	2579+82	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2580-1	2580+33	39.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2566	SC-HH-2566	SC-MH-2574	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2580	SC-MH-2580	SC-MH-2595	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2574	SC-MH-2574	SC-MH-2579-1	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2574-1	SC-MH-2574	SC-MH-2574-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2574-2	SC-MH-2474	CSU-2575	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2578	SC-MH-2578-1	SC-MH-2579-1	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2578-1	SC-MH-2578-1	SC-MH-2578-2	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2579	SC-MH-2579-1	SC-MH-2580	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2579-7	SC-MH-2579-1	SC-MH-2579-2	12-4	12/STU-DTL-001	SC DUCTBANK
SC-2579-8	SC-MH-2579-2	SC-MH-2580-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2580	SC-MH-2580-1	SC-MH-2580-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2574-3	SC-MH-2574	JB-2575-1	1-2	STU-DTL-001	SC CONDUIT
SC-2574-4	SC-MH-2574	SF-2574-1	1-2	STU-DTL-001	SC CONDUIT
SC-2574-5	SC-MH-2574-1	JB-2575-2	1-2	STU-DTL-001	SC CONDUIT
SC-2574-6	SC-MH-2574-1	SF-2574-2	1-2	STU-DTL-001	SC CONDUIT
SC-2574-7	SC-MH-2574-1	PF-2574	1-4	STU-DTL-001	SC CONDUIT
SC-2574-8	SC-MH-2574	IDF-2574-1	1-2	STU-DTL-001	SC CONDUIT
SC-2574-9	SC-MH-2574	IDF-2574-2	1-2	STU-DTL-001	SC CONDUIT
SC-2574-11	SC-MH-2574	JB-2574-1	1-2	STU-DTL-001	SC CONDUIT
SC-2574-12	SC-MH-2574	JB-2574-2	1-2	STU-DTL-001	SC CONDUIT
SC-2574-13	SC-MH-2574	JB-2574-3	1-2	STU-DTL-001	SC CONDUIT
SC-2574-14	SC-MH-2574	JB-2574-4	1-2	STU-DTL-001	SC CONDUIT
SC-2574-15	SC-MH-2574	JB-2574-5	1-2	STU-DTL-001	SC CONDUIT
SC-2574-16	SC-MH-2574	JB-2574-6	1-2	STU-DTL-001	SC CONDUIT
SC-2578-2	SC-MH-2578-1	PF-2578-1	1-4	STU-DTL-001	SC CONDUIT
SC-2578-3	SC-MH-2578-1	SF-2577-1	1-2	STU-DTL-001	SC CONDUIT
SC-2578-4	SC-MH-2578-1	JB-2577-1	1-2	STU-DTL-001	SC CONDUIT
SC-2578-5	SC-MH-2578-1	CG-2578-1	2-4	STU-DTL-001	SC CONDUIT
SC-2578-6	SC-MH-2578-2	SF-2577-2	1-2	STU-DTL-001	SC CONDUIT
SC-2578-7	SC-MH-2578-2	JB-2577-2	1-2	STU-DTL-001	SC CONDUIT
SC-2578-8	SC-MH-2578-2	PF-2578-2	1-4	STU-DTL-001	SC CONDUIT
SC-2578-9	SC-MH-2578-1	JB-2578-7	1-2	STU-DTL-001	SC CONDUIT
SC-2578-10	SC-MH-2578-1	JB-2580	1-2	STU-DTL-001	SC CONDUIT
SC-2578-11	SC-MH-2578-1	JB-2578-1	1-2	STU-DTL-001	SC CONDUIT
SC-2578-12	SC-MH-2578-2	JB-2578-2	1-2	STU-DTL-001	SC CONDUIT
SC-2578-13	SC-MH-2578-1	JB-2578-3	1-2	STU-DTL-001	SC CONDUIT
SC-2578-14	SC-MH-2578-2	JB-2578-4	1-2	STU-DTL-001	SC CONDUIT
SC-2578-15	SC-MH-2578-1	JB-2578-5	1-2	STU-DTL-001	SC CONDUIT
SC-2578-16	SC-MH-2578-2	JB-2578-6	1-2	STU-DTL-001	SC CONDUIT
SC-2578-17	SC-MH-2578-1	PF-2579-1	2-4	STU-DTL-001	SC CONDUIT
SC-2579-1	SC-MH-2579-2	CG-2578-2	2-4	STU-DTL-001	SC CONDUIT
SC-2579-2	SC-MH-2579-1	IDF-2579	1-2	STU-DTL-001	SC CONDUIT
SC-2579-3	SC-MH-2579-1	PF-2579-2	1-4	STU-DTL-001	SC CONDUIT
SC-2579-4	SC-MH-2579-1	PF-2579-3	1-4	STU-DTL-001	SC CONDUIT
SC-2579-5	SC-MH-2579-1	JB-2579-1	1-2	STU-DTL-001	SC CONDUIT
SC-2579-6	SC-MH-2579-2	JB-2579-2	1-2	STU-DTL-001	SC CONDUIT
SC-2579-7	SC-MH-2579-2	PF-2578-3	2-4	STU-DTL-001	SC CONDUIT
ID-2573-1	IDF-2573-1	IDF-2573-2	1-2	STU-DTL-001	ID CONDUIT
ID-2573-2	IDF-2573-2	IDF-2574-1	1-2	STU-DTL-001	ID CONDUIT
ID-2574	IDF-2574-2	IDF-2575-1	1-2	STU-DTL-001	ID CONDUIT
ID-2575-1	IDF-2575-1	IDF-2575-2	1-2	STU-DTL-001	ID CONDUIT
ID-2575-2	IDF-2575-2	IDF-2576-1	1-2	STU-DTL-001	ID CONDUIT
ID-2576-1	IDF-2576-1	IDF-2576-2	1-2	STU-DTL-001	ID CONDUIT
ID-2576-2	IDF-2576-2	IDF-2577-1	1-2	STU-DTL-001	ID CONDUIT
ID-2577-1	IDF-2577-1	IDF-2577-2	1-2	STU-DTL-001	ID CONDUIT
ID-2577-2	IDF-2577-2	IDF-2578	1-2	STU-DTL-001	ID CONDUIT
ID-2579	IDF-2579	IDF-2580-1	1-2	STU-DTL-001	ID CONDUIT
LV-2574	SC-HH-2574	CSU-2575	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-BLK-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE/BUS OPERATOR FACILITY COMMUNICATIONS CABINET.

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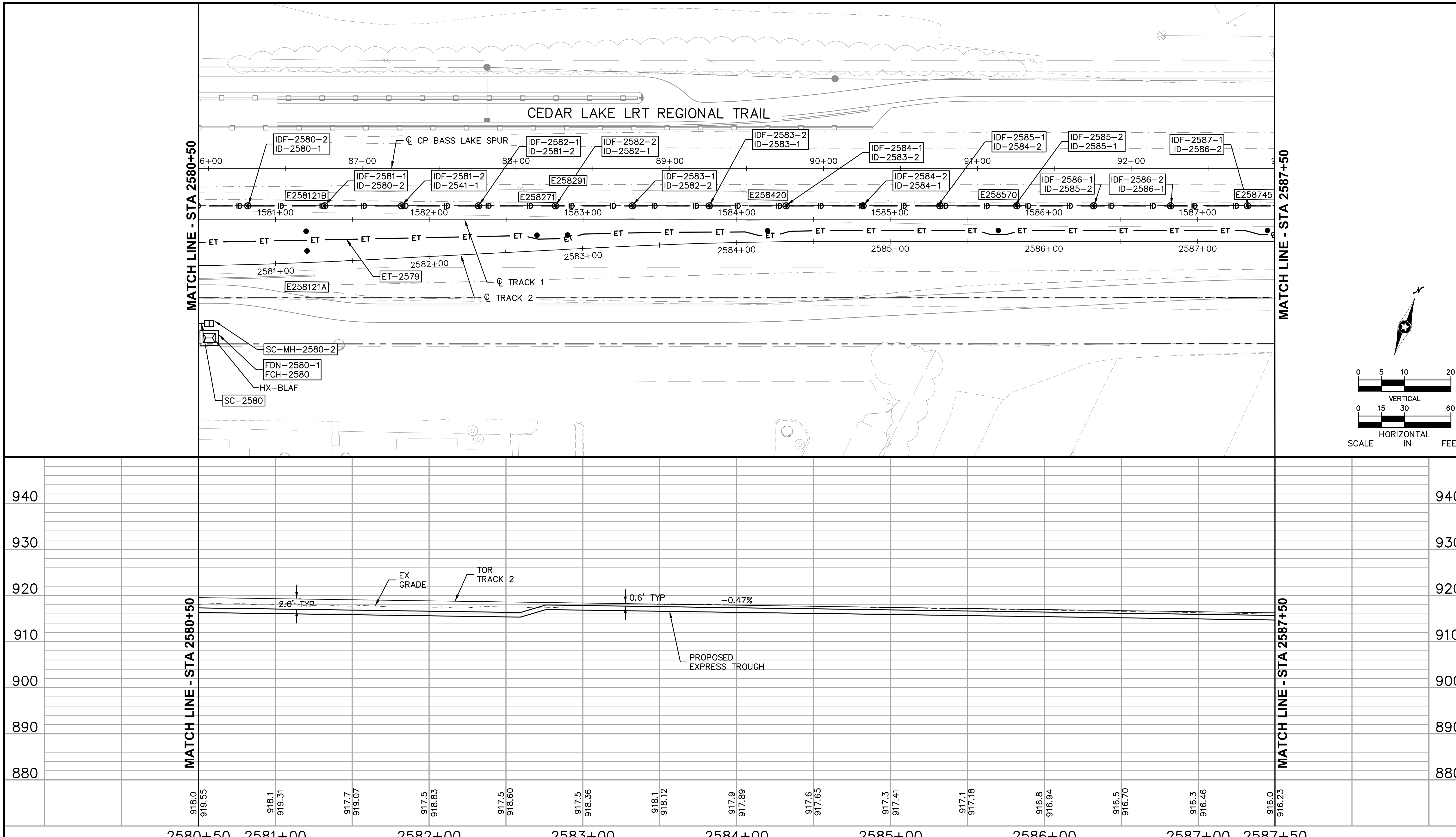
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2573+50 TO STA 2580+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-013



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2580+50 TO STA 2587+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-014

SHEET 155 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2580-2	2580+56	37.8' R	SWE-DTL-003	SC MANHOLE
FDN-2580-1	2580+56	47.2' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
IDF-2580-2	2580+83	38.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2581-1	2581+34	36.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2581-2	2581+84	33.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2582-1	2582+34	31.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2582-2	2582+84	28.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2583-1	2583+34	26.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2583-2	2583+83	24.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2584-1	2584+33	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2584-2	2584+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2585-1	2585+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2585-2	2585+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2586-1	2586+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2586-2	2586+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2587-1	2587+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
FCH-2580	2580+56	47.2' R	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2579	SC-MH-2580	SC-MH-2595	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2580	SC-MH-2580-1	SC-MH-2580-2	6-4	6/STU-DTL-001	SC DUCTBANK
ID-2580-1	IDF-2580-1	IDF-2580-2	1-2	STU-DTL-001	ID CONDUIT
ID-2580-2	IDF-2580-2	IDF-2581-1	1-2	STU-DTL-001	ID CONDUIT
ID-2581-1	IDF-2581-1	IDF-2581-2	1-2	STU-DTL-001	ID CONDUIT
ID-2581-2	IDF-2581-2	IDF-2582-1	1-2	STU-DTL-001	ID CONDUIT
ID-2582-1	IDF-2582-1	IDF-2582-2	1-2	STU-DTL-001	ID CONDUIT
ID-2582-2	IDF-2582-2	IDF-2583-1	1-2	STU-DTL-001	ID CONDUIT
ID-2583-1	IDF-2583-1	IDF-2583-2	1-2	STU-DTL-001	ID CONDUIT
ID-2583-2	IDF-2583-2	IDF-2584-1	1-2	STU-DTL-001	ID CONDUIT
ID-2584-1	IDF-2584-1	IDF-2584-2	1-2	STU-DTL-001	ID CONDUIT
ID-2584-2	IDF-2584-2	IDF-2585-1	1-2	STU-DTL-001	ID CONDUIT
ID-2585-1	IDF-2585-1	IDF-2585-2	1-2	STU-DTL-001	ID CONDUIT
ID-2585-2	IDF-2585-2	IDF-2586-1	1-2	STU-DTL-001	ID CONDUIT
ID-2586-1	IDF-2586-1	IDF-2586-2	1-2	STU-DTL-001	ID CONDUIT
ID-2586-2	IDF-2586-2	IDF-2587-1	1-2	STU-DTL-001	ID CONDUIT

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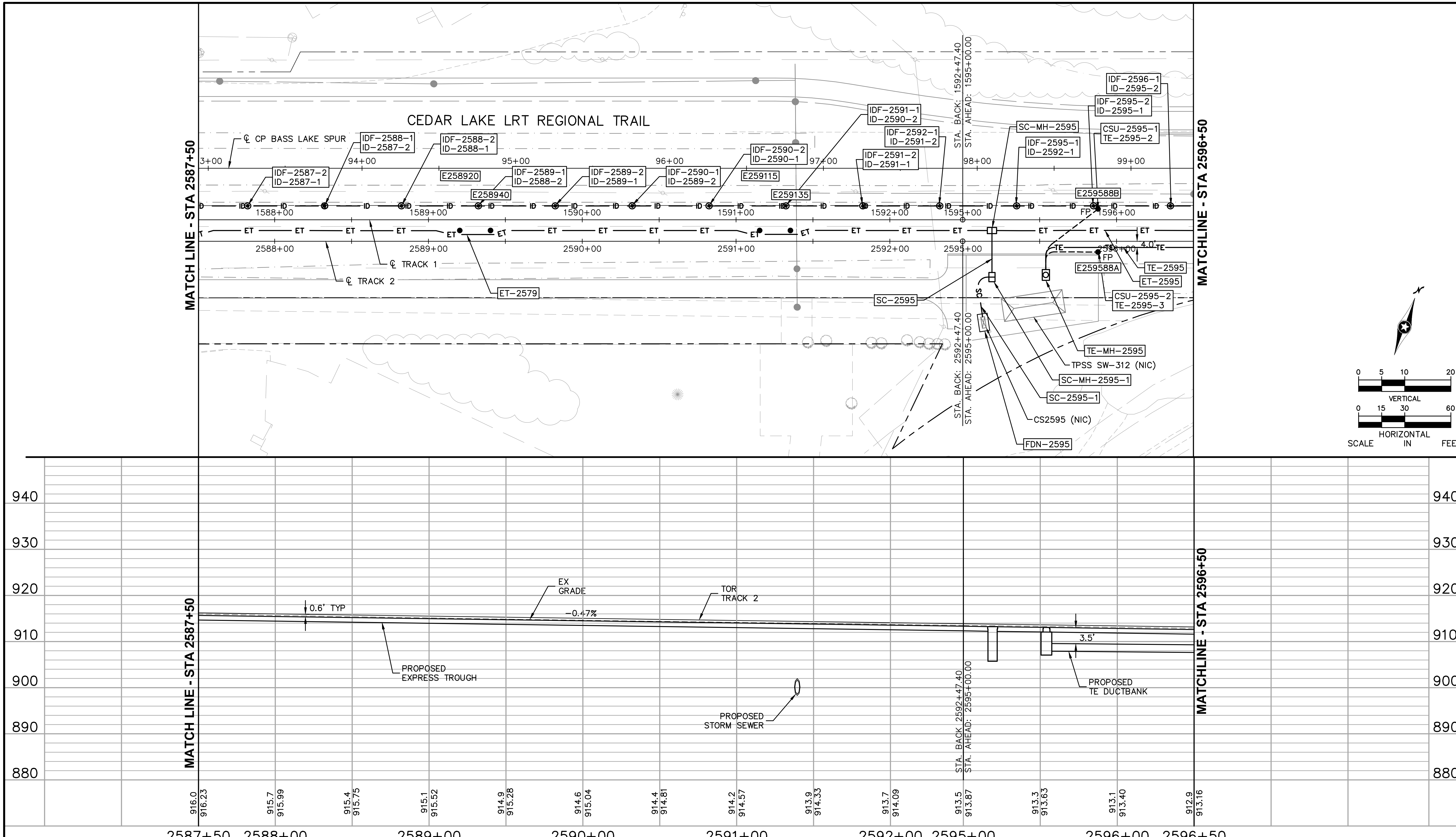
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2580+50 TO STA 2587+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-014



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2587+50 TO STA 2596+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-PRF-015

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2595	2595+19	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2595-1	2595+19	23.3' R	SWE-DTL-003	SC MANHOLE
IDF-2587-2	2587+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2588-1	2588+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2588-2	2588+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2589-1	2589+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2589-2	2589+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2590-1	2590+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2590-2	2590+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2591-1	2591+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2591-2	2591+82	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2592-1	2592+32	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2595-1	2595+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2595-2	2595+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2596-1	2596+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
FDN-2595	2595+13	52.8' R	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
CSU-2595-1	2595+88	21.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2595-2	2595+88	7.0' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
TE-MH-2595	2595+54	22.0' R	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2579	SC-MH-2579-1	SC-MH-2595	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2595	SC-MH-2595	SC-HH-2602	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2595	SC-MH-2595	SC-MH-2595-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2595-1	SC-MH-2595-1	FDN-2595	4-4	4/STU-DTL-001	SC DUCTBANK
TE-2595	TE-MH-2595	TE-HH-2598	4-5	4A/STU-DTL-002	TE DUCKBANK
TE-2595-2	TE-MH-2595	CSU-2595-1	2-4	STU-DTL-002	TE CONDUIT
TE-2595-3	TE-MH-2595	CSU-2595-2	2-4	STU-DTL-002	TE CONDUIT
ID-2587-1	IDF-2587-1	IDF-2587-2	1-2	STU-DTL-001	ID CONDUIT
ID-2587-2	IDF-2587-2	IDF-2588-1	1-2	STU-DTL-001	ID CONDUIT
ID-2588-1	IDF-2588-1	IDF-2588-2	1-2	STU-DTL-001	ID CONDUIT
ID-2588-2	IDF-2588-2	IDF-2589-1	1-2	STU-DTL-001	ID CONDUIT
ID-2589-1	IDF-2589-1	IDF-2589-2	1-2	STU-DTL-001	ID CONDUIT
ID-2589-2	IDF-2589-2	IDF-2590-1	1-2	STU-DTL-001	ID CONDUIT
ID-2590-1	IDF-2590-1	IDF-2590-2	1-2	STU-DTL-001	ID CONDUIT
ID-2590-2	IDF-2590-2	IDF-2591-1	1-2	STU-DTL-001	ID CONDUIT
ID-2591-1	IDF-2591-1	IDF-2591-2	1-2	STU-DTL-001	ID CONDUIT
ID-2591-2	IDF-2591-2	IDF-2592-1	1-2	STU-DTL-001	ID CONDUIT
ID-2592-1	IDF-2592-1	IDF-2595-1	1-2	STU-DTL-001	ID CONDUIT
ID-2595-1	IDF-2595-1	IDF-2595-2	1-2	STU-DTL-001	ID CONDUIT
ID-2595-2	IDF-2595-2	IDF-2596-1	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2587+50 TO STA 2596+50

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SCH-015

SHEET 158 OF 464

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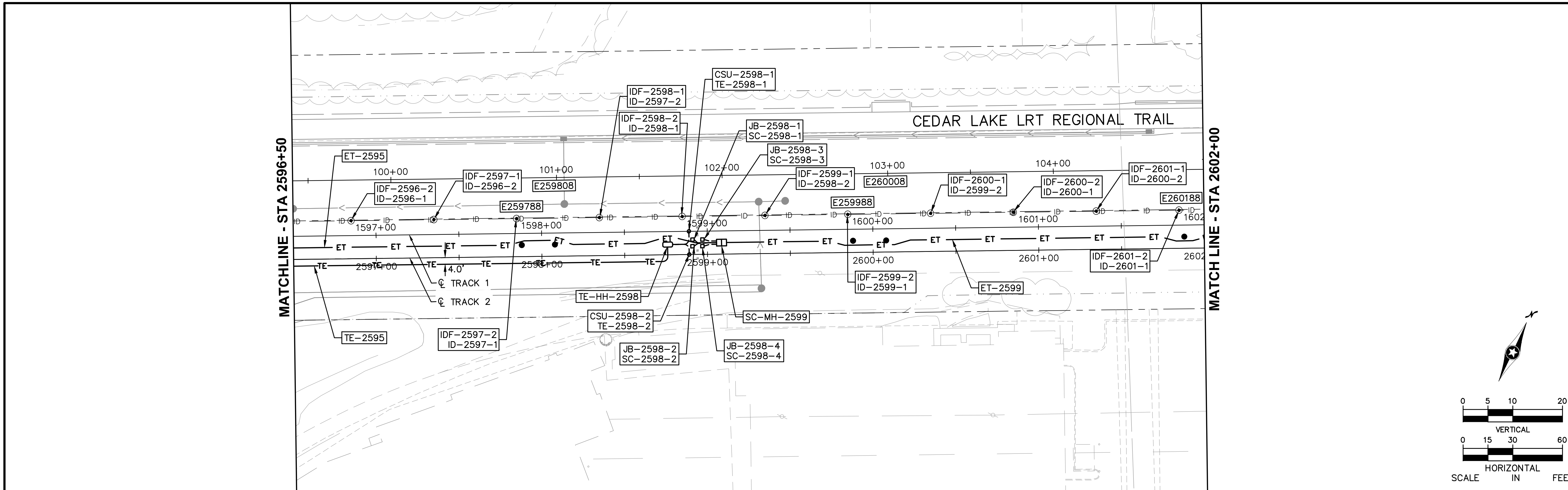

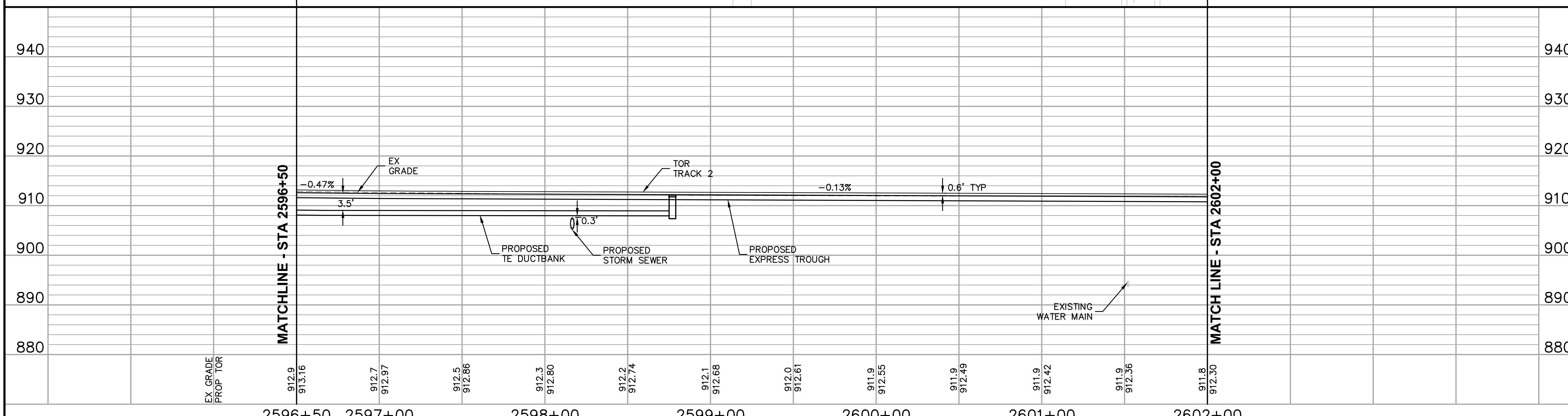

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2596+50 TO STA 2602+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-001

SHEET 159 OF 464

Jan, 18 2016 07:57 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E2-SYS-SWE-PRF.dwg By: V-McollAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2596-2	2596+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2597-1	2597+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2597-2	2597+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2598-1	2598+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2598-2	2598+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2599-1	2599+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2599-2	2599+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2600-1	2600+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2600-2	2600+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2601-1	2601+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2601-2	2601+85	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
TE-HH-2598	2598+76	6.2 L	SWE-DTL-004	TE HANDHOLE
JB-2598-1	2598+91	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2598-2	2598+91	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2598-3	2598+97	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2598-4	2598+97	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
CSU-2598-1	2598+89	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2598-2	2598+89	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
SC-MH-2599	2599+09	7.0' L	SWE-DTL-003	SC MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2595	SC-MH-2595	SC-MH-2599	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2599	SC-MH-2599	SC-HH-2602	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2596-1	IDF-2596-1	IDF-2596-2	1-2	STU-DTL-001	ID CONDUIT
ID-2596-2	IDF-2596-2	IDF-2597-1	1-2	STU-DTL-001	ID CONDUIT
ID-2597-1	IDF-2597-1	IDF-2597-2	1-2	STU-DTL-001	ID CONDUIT
ID-2597-2	IDF-2597-2	IDF-2598-1	1-2	STU-DTL-001	ID CONDUIT
ID-2598-1	IDF-2598-1	IDF-2598-2	1-2	STU-DTL-001	ID CONDUIT
ID-2598-2	IDF-2598-2	IDF-2599-1	1-2	STU-DTL-001	ID CONDUIT
ID-2599-1	IDF-2599-1	IDF-2599-2	1-2	STU-DTL-001	ID CONDUIT
ID-2599-2	IDF-2599-2	IDF-2600-1	1-2	STU-DTL-001	ID CONDUIT
ID-2600-1	IDF-2600-1	IDF-2600-2	1-2	STU-DTL-001	ID CONDUIT
ID-2600-2	IDF-2600-2	IDF-2601-1	1-2	STU-DTL-001	ID CONDUIT
ID-2601-1	IDF-2601-1	IDF-2601-2	1-2	STU-DTL-001	ID CONDUIT
TE-2595	TE-MH-2595	TE-HH-2598	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2598-1	TE-HH-2598	CSU-2598-1	1-5	STU-DTL-002	TE CONDUIT
TE-2598-2	TE-HH-2598	CSU-2598-2	1-5	STU-DTL-002	TE CONDUIT
SC-2598-1	SC-MH-2599	JB-2598-1	1-2	STU-DTL-001	SC CONDUIT
SC-2598-2	SC-MH-2599	JB-2598-2	1-2	STU-DTL-001	SC CONDUIT
SC-2598-3	SC-MH-2599	JB-2598-3	1-2	STU-DTL-001	SC CONDUIT
SC-2598-4	SC-MH-2599	JB-2598-4	1-2	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2596+50 TO STA 2602+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-001

SHEET 160 OF 464

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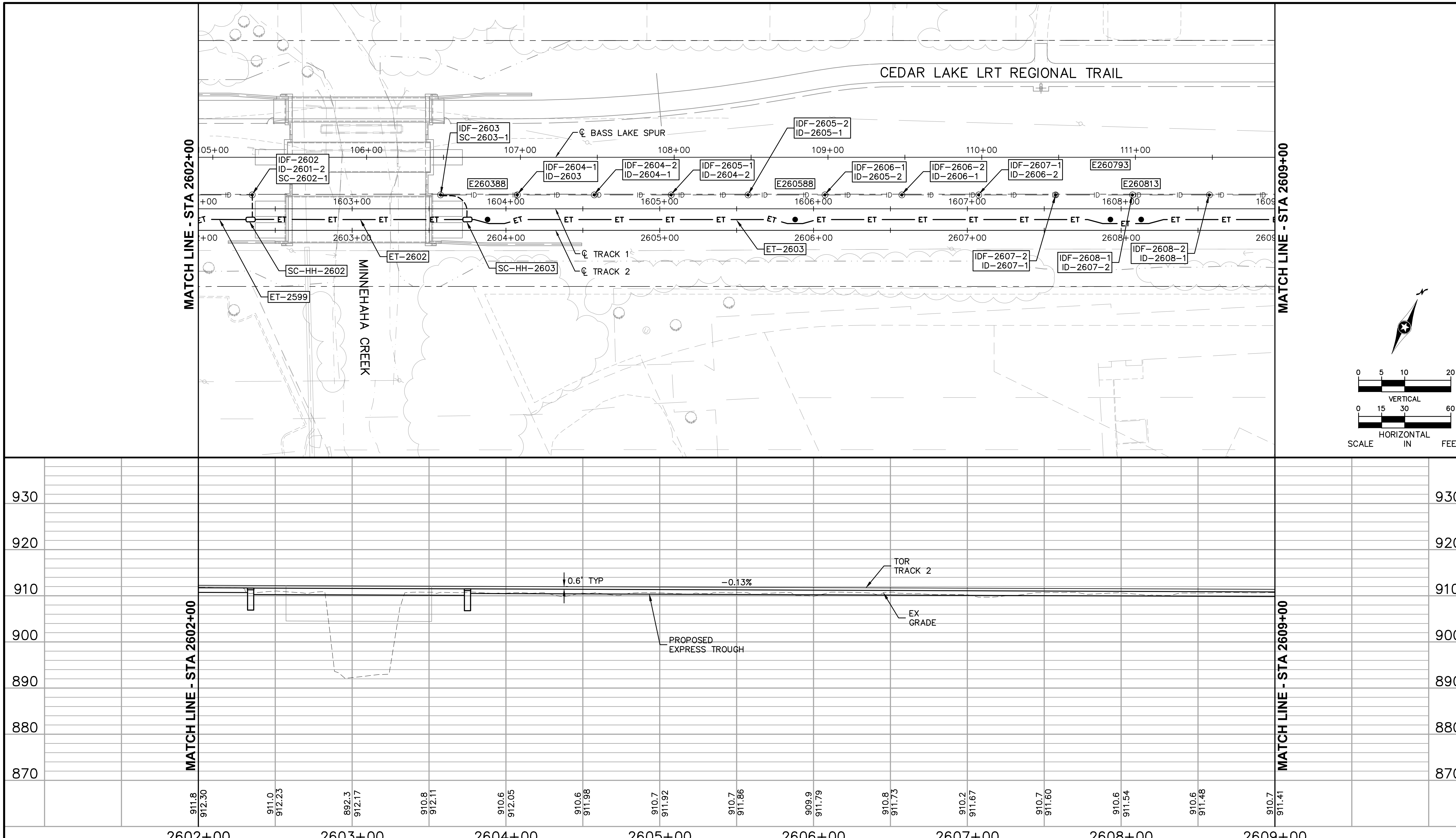

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2602+00 TO STA 2609+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-002

SHEET 161 OF 464

Jan, 18 2016 07:59 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E2-SYS-SWE-PRF.dwg By: V-MccollAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2602	2602+34	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2603	2603+75	7.0' L	SWE-DTL-005	SC HANDHOLE
IDF-2602	2602+35	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2603	2603+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2604-1	2604+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2604-2	2604+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2605-1	2605+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2605-2	2605+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2606-1	2606+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2606-2	2606+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2607-1	2607+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2607-2	2607+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2608-1	2608+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2608-2	2608+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2595	SC-MH-2595	SC-HH-2602	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2602	SC-HH-2602	SC-HH-2603	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
ET-2603	SC-HH-2603	SC-MH-2623	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2602-1	SC-HH-2602	IDF-2602	1-2	STU-DTL-001	SC CONDUIT
SC-2603-1	SC-HH-2603	IDF-2603	1-2	STU-DTL-001	SC CONDUIT
ID-2601-2	IDF-2601-2	IDF-2602	1-2	STU-DTL-001	ID CONDUIT
ID-2603	IDF-2603	IDF-2604-1	1-2	STU-DTL-001	ID CONDUIT
ID-2604-1	IDF-2604-1	IDF-2604-2	1-2	STU-DTL-001	ID CONDUIT
ID-2604-2	IDF-2604-2	IDF-2605-1	1-2	STU-DTL-001	ID CONDUIT
ID-2605-1	IDF-2605-1	IDF-2605-2	1-2	STU-DTL-001	ID CONDUIT
ID-2605-2	IDF-2605-2	IDF-2606-1	1-2	STU-DTL-001	ID CONDUIT
ID-2606-1	IDF-2606-1	IDF-2606-2	1-2	STU-DTL-001	ID CONDUIT
ID-2606-2	IDF-2606-2	IDF-2607-1	1-2	STU-DTL-001	ID CONDUIT
ID-2607-1	IDF-2607-1	IDF-2607-2	1-2	STU-DTL-001	ID CONDUIT
ID-2607-2	IDF-2607-2	IDF-2608-1	1-2	STU-DTL-001	ID CONDUIT
ID-2608-1	IDF-2608-1	IDF-2608-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

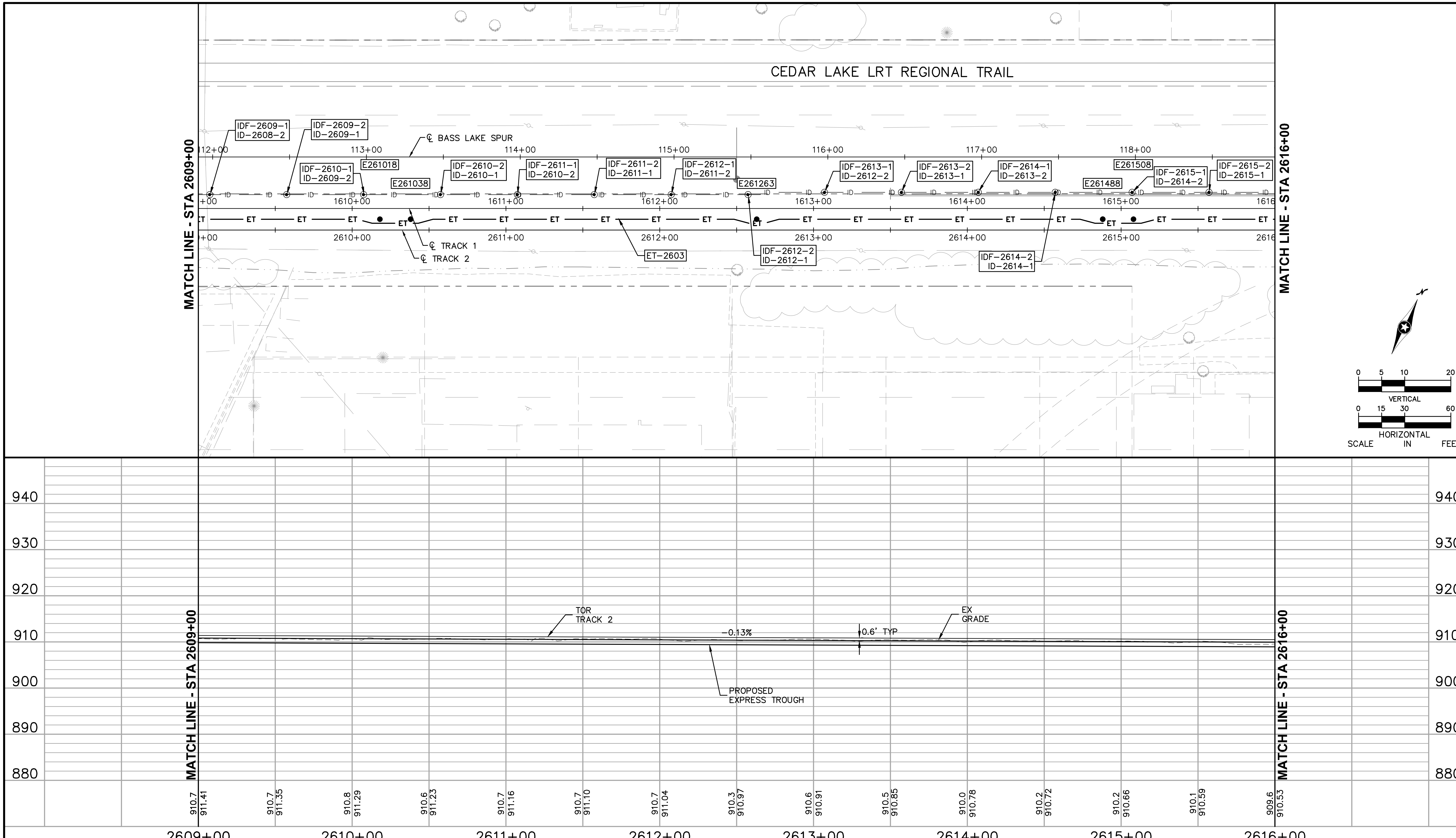
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2602+00 TO STA 2609+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-002



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2609+00 TO STA 2616+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-003

SHEET 163 OF 464

Jan, 18 2016 08:01 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E2-SYS-SWE-PRF.dwg By: V-MccollAE

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2609-1	2609+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2609-2	2609+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2610-1	2610+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2610-2	2610+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2611-1	2611+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2611-2	2611+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2612-1	2612+07	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2612-2	2612+57	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2613-1	2613+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2613-2	2613+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2614-1	2614+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2614-2	2614+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2615-1	2615+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2615-2	2615+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2603	SC-HH-2603	SC-MH-2623	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2608-2	IDF-2608-2	IDF-2609-1	1-2	STU-DTL-001	ID CONDUIT
ID-2609-1	IDF-2609-1	IDF-2609-2	1-2	STU-DTL-001	ID CONDUIT
ID-2609-2	IDF-2609-2	IDF-2610-1	1-2	STU-DTL-001	ID CONDUIT
ID-2610-1	IDF-2610-1	IDF-2610-2	1-2	STU-DTL-001	ID CONDUIT
ID-2610-2	IDF-2610-2	IDF-2611-1	1-2	STU-DTL-001	ID CONDUIT
ID-2611-1	IDF-2611-1	IDF-2611-2	1-2	STU-DTL-001	ID CONDUIT
ID-2611-2	IDF-2611-2	IDF-2612-1	1-2	STU-DTL-001	ID CONDUIT
ID-2612-1	IDF-2612-1	IDF-2612-2	1-2	STU-DTL-001	ID CONDUIT
ID-2612-2	IDF-2612-2	IDF-2613-1	1-2	STU-DTL-001	ID CONDUIT
ID-2613-1	IDF-2613-1	IDF-2613-2	1-2	STU-DTL-001	ID CONDUIT
ID-2613-2	IDF-2613-2	IDF-2614-1	1-2	STU-DTL-001	ID CONDUIT
ID-2614-1	IDF-2614-1	IDF-2614-2	1-2	STU-DTL-001	ID CONDUIT
ID-2614-2	IDF-2614-2	IDF-2615-1	1-2	STU-DTL-001	ID CONDUIT
ID-2615-1	IDF-2615-1	IDF-2615-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

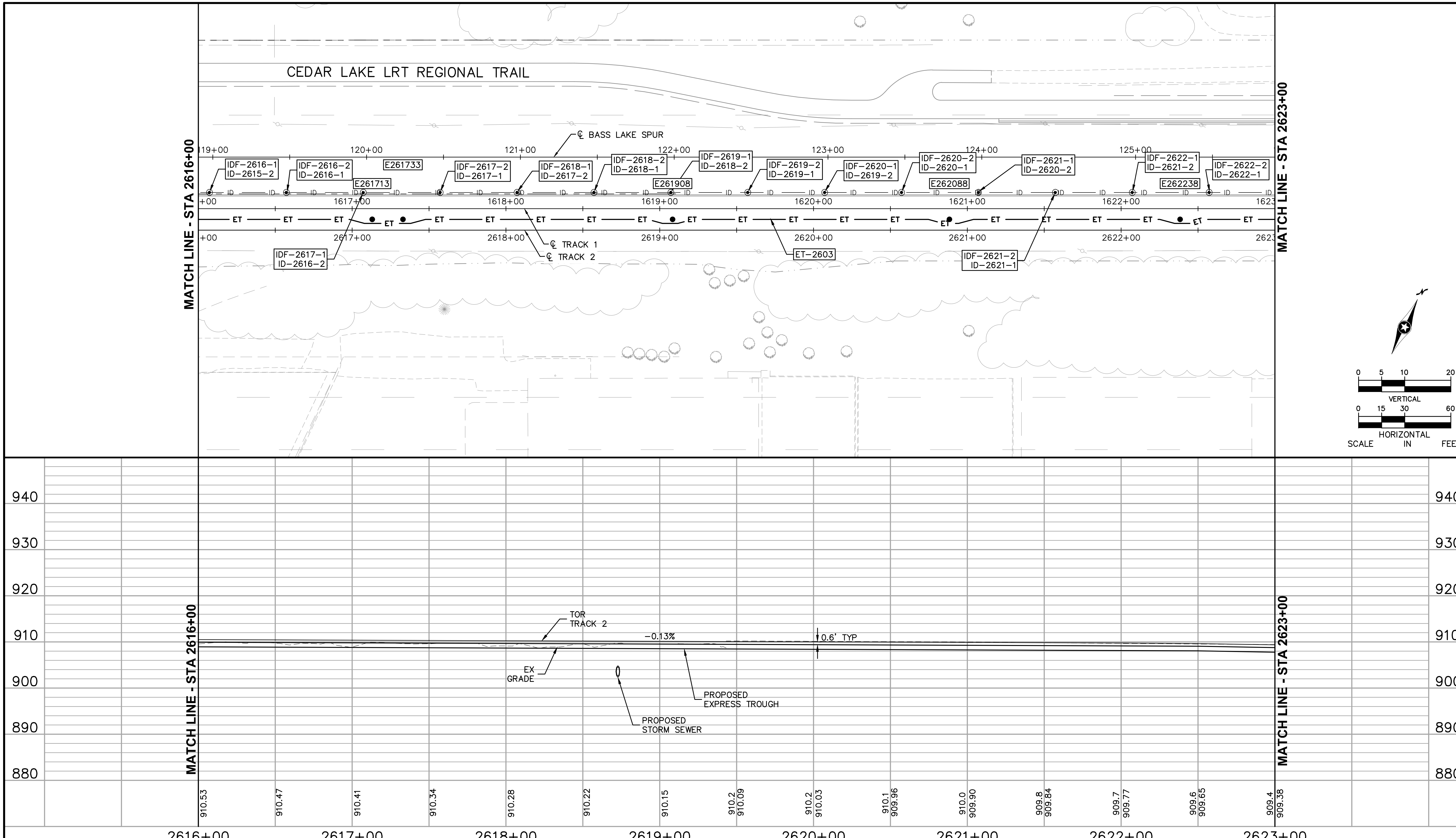
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2609+00 TO STA 2616+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-003



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2616+00 TO STA 2623+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-004

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2616-1	2616+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2616-2	2616+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2617-1	2617+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2617-2	2617+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2618-1	2618+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2618-2	2618+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2619-1	2619+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2619-2	2619+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2620-1	2620+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2620-2	2620+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2621-1	2621+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2621-2	2621+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2622-1	2622+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2622-2	2622+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2603	SC-HH-2603	SC-MH-2623	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2615-2	IDF-2615-2	IDF-2616-1	1-2	STU-DTL-001	ID CONDUIT
ID-2616-1	IDF-2616-1	IDF-2616-2	1-2	STU-DTL-001	ID CONDUIT
ID-2616-2	IDF-2616-2	IDF-2617-1	1-2	STU-DTL-001	ID CONDUIT
ID-2617-1	IDF-2617-1	IDF-2617-2	1-2	STU-DTL-001	ID CONDUIT
ID-2617-2	IDF-2617-2	IDF-2618-1	1-2	STU-DTL-001	ID CONDUIT
ID-2618-1	IDF-2618-1	IDF-2618-2	1-2	STU-DTL-001	ID CONDUIT
ID-2618-2	IDF-2618-2	IDF-2619-1	1-2	STU-DTL-001	ID CONDUIT
ID-2619-1	IDF-2619-1	IDF-2619-2	1-2	STU-DTL-001	ID CONDUIT
ID-2619-2	IDF-2619-2	IDF-2620-1	1-2	STU-DTL-001	ID CONDUIT
ID-2620-1	IDF-2620-1	IDF-2620-2	1-2	STU-DTL-001	ID CONDUIT
ID-2620-2	IDF-2620-2	IDF-2621-1	1-2	STU-DTL-001	ID CONDUIT
ID-2621-1	IDF-2621-1	IDF-2621-2	1-2	STU-DTL-001	ID CONDUIT
ID-2621-2	IDF-2621-2	IDF-2622-1	1-2	STU-DTL-001	ID CONDUIT
ID-2622-1	IDF-2622-1	IDF-2622-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

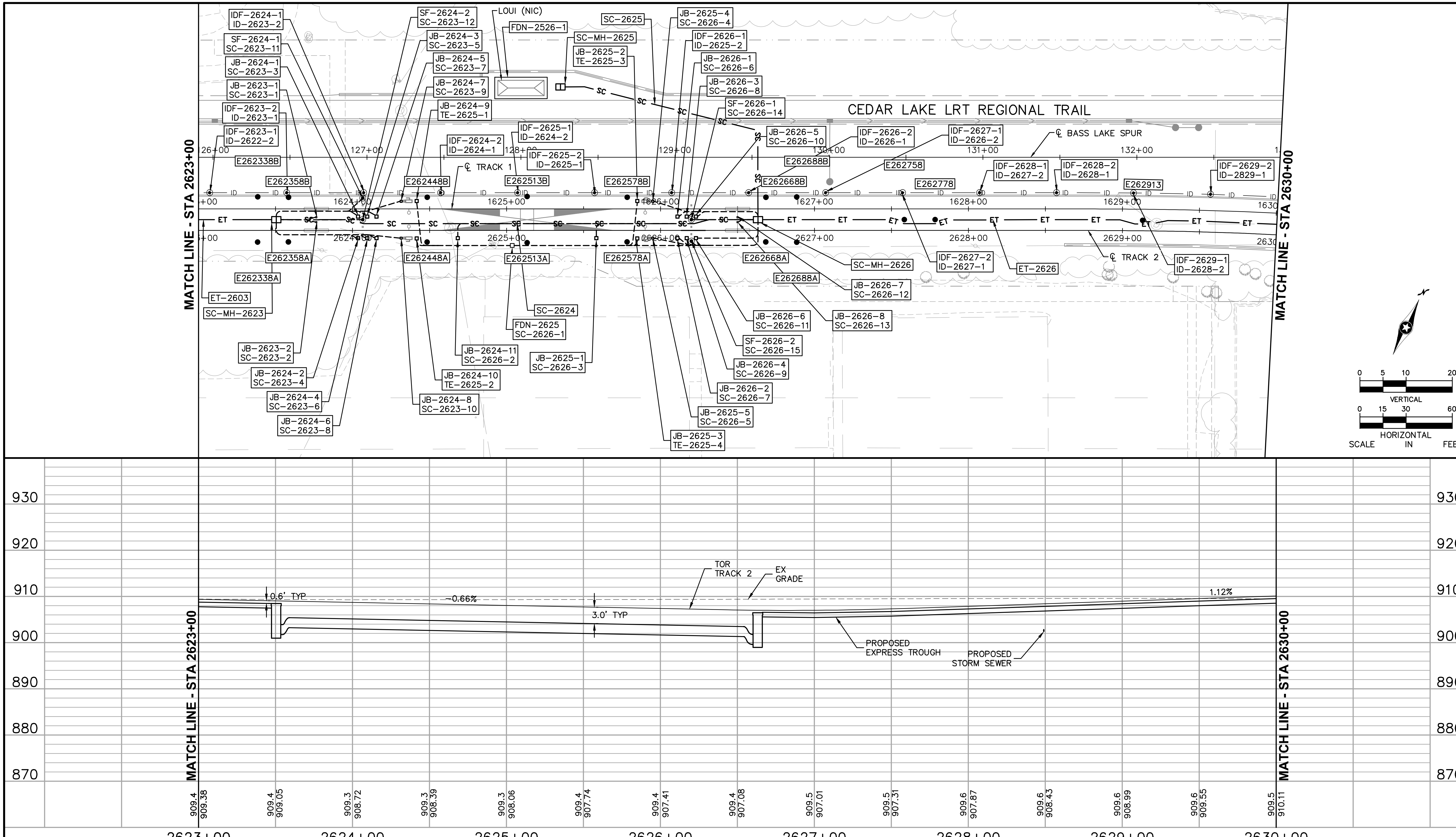
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2616+00 TO STA 2623+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-004



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2623+00 TO STA 2630+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-005

SHEET 167 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2623	2623+50	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2625	2625+35	93.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2626	2626+63	7.0' L	SWE-DTL-003	SC MANHOLE
IDF-2623-1	2623+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2623-2	2623+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2624-1	2624+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2624-2	2624+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2625-1	2625+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2625-2	2625+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2626-1	2626+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2626-2	2626+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2627-1	2627+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2627-2	2627+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2628-1	2628+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2628-2	2628+57	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2629-1	2629+07	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2629-2	2629+56	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2623-1	2623+76	5.4' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2623-2	2623+76	8.6' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2624-1	2624+04	9.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2624-2	2624+04	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2624-3	2624+10	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2624-4	2624+10	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2624-5	2624+16	9.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2624-6	2624+16	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2624-7	2624+32	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2624-8	2624+32	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2624-9	2624+42	19.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2624-10	2624+42	5.0'R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2624-11	2624+68	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2625-1	2625+58	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2625-2	2625+85	19.0' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2625-3	2625+85	5.0' R	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2625-4	2625+95	19.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2625-5	2625+95	5.0' R	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2626-1	2626+11	9.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2626-2	2626+11	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2626-3	2626+17	9.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2626-4	2626+17	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2626-5	2626+23	9.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2626-6	2626+23	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2626-7	2626+50	8.6' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2626-8	2626+50	5.4' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
SF-2624-1	2624+07	21.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2624-2	2624+07	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2626-1	2626+20	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2626-2	2626+20	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
FDN-2625	2625+04	9.8' R	SWE-DTL-SIG-016	SWITCH HEATER FOUNDATION AND STUB UP
FDN-2625-1	2625+09	92.5' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2603	SC-HH-2603	SC-MH-2623	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2626	SC-MH-2626	ET-TBX-2631	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2624	SC-MH-2623	SC-MH-2626	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2625	SC-MH-2625	SC-MH-2626	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2623-1	SC-MH-2623	JB-2623-1	1-2	STU-DTL-001	SC CONDUIT
SC-2623-2	SC-MH-2623	JB-2623-2	1-2	STU-DTL-001	SC CONDUIT
SC-2623-3	SC-MH-2623	JB-2624-1	1-2	STU-DTL-001	SC CONDUIT
SC-2623-4	SC-MH-2623	JB-2624-2	1-2	STU-DTL-001	SC CONDUIT
SC-2623-5	SC-MH-2623	JB-2624-3	1-2	STU-DTL-001	SC CONDUIT
SC-2623-6	SC-MH-2623	JB-2624-4	1-2	STU-DTL-001	SC CONDUIT
SC-2623-7	SC-MH-2623	JB-2624-5	1-2	STU-DTL-001	SC CONDUIT
SC-2623-8	SC-MH-2623	JB-2624-6	1-2	STU-DTL-001	SC CONDUIT
SC-2623-9	SC-MH-2623	JB-2624-7	1-2	STU-DTL-001	SC CONDUIT
SC-2623-10	SC-MH-2623	JB-2624-8	1-2	STU-DTL-001	SC CONDUIT
SC-2623-11	SC-MH-2623	SF-2624-1	1-2	STU-DTL-001	SC CONDUIT
SC-2623-12	SC-MH-2623	SF-2624-2	1-2	STU-DTL-001	SC CONDUIT
SC-2626-1	SC-MH-2626	FDN-2625	1-2	STU-DTL-001	SC CONDUIT
SC-2626-2	SC-MH-2626	JB-2624-11	1-2	STU-DTL-001	SC CONDUIT
SC-2626-3	SC-MH-2626	JB-2625-1	1-2	STU-DTL-001	SC CONDUIT
SC-2626-4	SC-MH-2626	JB-2625-4	1-2	STU-DTL-001	SC CONDUIT
SC-2626-5	SC-MH-2626	JB-2625-5	1-2	STU-DTL-001	SC CONDUIT
SC-2626-6	SC-MH-2626	JB-2626-1	1-2	STU-DTL-001	SC CONDUIT
SC-2626-7	SC-MH-2626	JB-2626-2	1-2	STU-DTL-001	SC CONDUIT
SC-2626-8	SC-MH-2626	JB-2626-3	1-2	STU-DTL-001	SC CONDUIT
SC-2626-9	SC-MH-2626	JB-2626-4	1-2	STU-DTL-001	SC CONDUIT
SC-2626-10	SC-MH-2626	JB-2626-5	1-2	STU-DTL-001	SC CONDUIT
SC-2626-11	SC-MH-2626	JB-2626-6	1-2	STU-DTL-001	SC CONDUIT
SC-2626-12	SC-MH-2626	JB-2626-7	1-2	STU-DTL-001	SC CONDUIT
SC-2626-13	SC-MH-2626	JB-2626-8	1-2	STU-DTL-001	SC CONDUIT
SC-2626-14	SC-MH-2626	SF-2626-1	1-2	STU-DTL-001	SC CONDUIT
SC-2626-15	SC-MH-2626	SF-2626-2	1-2	STU-DTL-001	SC CONDUIT
TE-2625-1	FDN-2625	JB-2624-9	1-3	STU-DTL-002	TE CONDUIT
TE-2625-2	FDN-2625	JB-2624-10	1-3	STU-DTL-002	TE CONDUIT
TE-2625-3	FDN-2625	JB-2625-2	1-3	STU-DTL-002	TE CONDUIT
TE-2625-4	FDN-2625	JB-2625-3	1-3	STU-DTL-002	TE CONDUIT
ID-2622-2	IDF-2622-2	IDF-2623-1	1-2	STU-DTL-001	ID CONDUIT
ID-2623-1	IDF-2623-1	IDF-2623-2	1-2	STU-DTL-001	ID CONDUIT
ID-2623-2	IDF-2623-2	IDF-2624-1	1-2	STU-DTL-001	ID CONDUIT
ID-2624-1	IDF-2624-1	IDF-2624-2	1-2	STU-DTL-001	ID CONDUIT
ID-2624-2	IDF-2624-2	IDF-2625-1	1-2	STU-DTL-001	ID CONDUIT
ID-2625-1	IDF-2625-1	IDF-2625-2	1-2	STU-DTL-001	ID CONDUIT
ID-2625-2	IDF-2625-2	IDF-2626-1	1-2	STU-DTL-001	ID CONDUIT
ID-2626-1	IDF-2626-1	IDF-2626-2	1-2	STU-DTL-001	ID CONDUIT
ID-2626-2	IDF-2626-2	IDF-2627-1	1-2	STU-DTL-001	ID CONDUIT
ID-2627-1	IDF-2627-1	IDF-2627-2	1-2	STU-DTL-001	ID CONDUIT
ID-2627-2	IDF-2627-2	IDF-2628-1	1-2	STU-DTL-001	ID CONDUIT
ID-2628-1	IDF-2628-1	IDF-2628-2	1-2	STU-DTL-001	ID CONDUIT
ID-2628-2	IDF-2628-2	IDF-2629-1	1-2	STU-DTL-001	ID CONDUIT
ID-2629-1	IDF-2629-1	IDF-2629-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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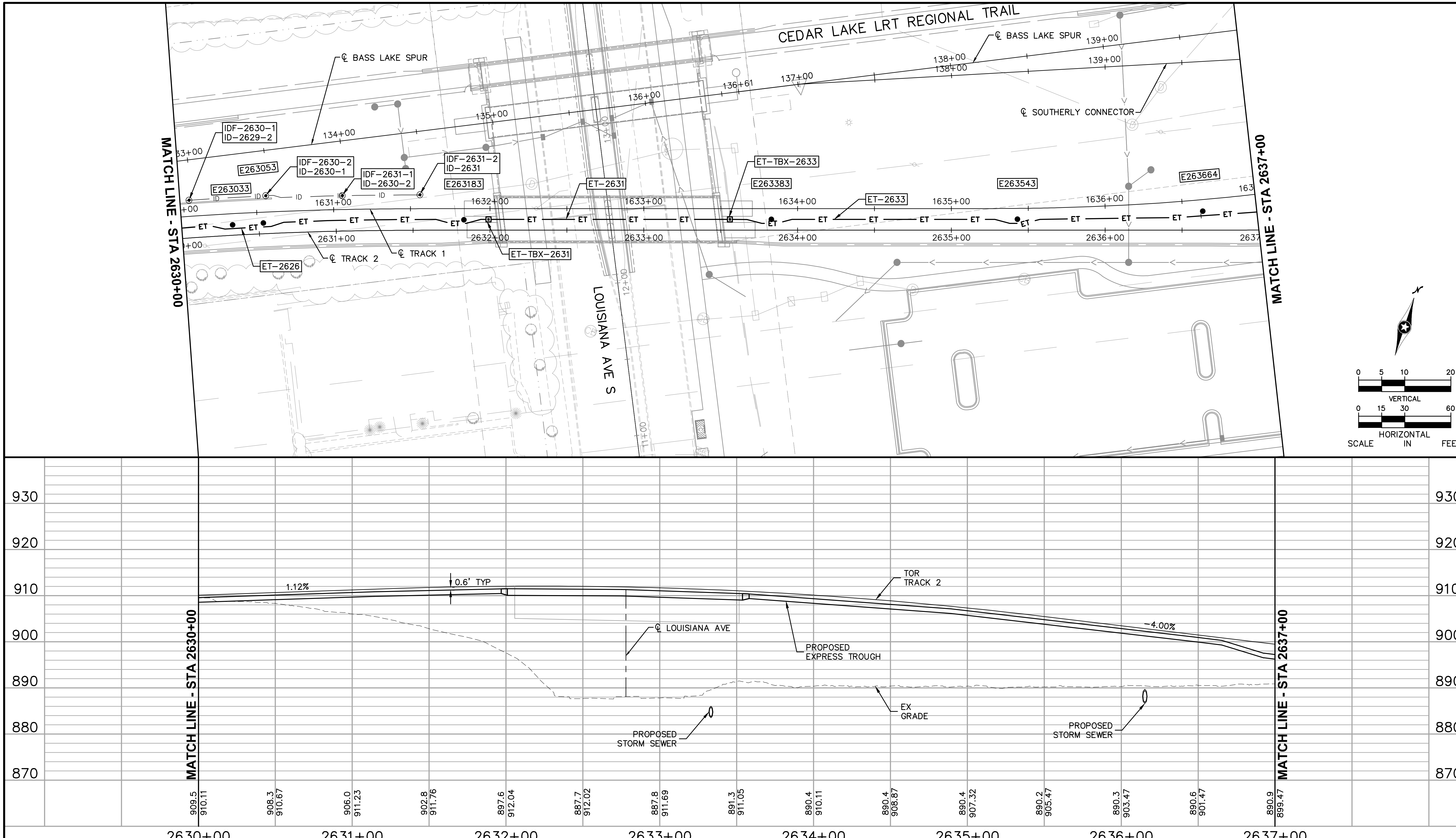
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2623+00 TO STA 2630+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-005



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2630+00 TO STA 2637+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-006

SHEET 169 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
ET-TBX-2631	2631+99	7.0' L	SWE-DTL-011	EXPRESS TROUGH TRANSITION BOX
ET-TBX-2633	2633+56	7.0' L	SWE-DTL-011	EXPRESS TROUGH TRANSITION BOX
IDF-2630-1	2630+06	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2630-2	2630+55	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2631-1	2631+04	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2631-2	2631+55	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2626	SC-MH-2626	ET-TBX-2631	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2631	ET-TBX-2631	ET-TBX-2633	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
ET-2633	ET-TBX-2633	SC-MH-2638	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2629-2	IDF-2629-2	IDF-2630-1	1-2	STU-DTL-001	ID CONDUIT
ID-2630-1	IDF-2630-1	IDF-2630-2	1-2	STU-DTL-001	ID CONDUIT
ID-2630-2	IDF-2630-2	IDF-2631-1	1-2	STU-DTL-001	ID CONDUIT
ID-2631	IDF-2631-1	IDF-2631-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2630+00 TO STA 2637+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-006

SHEET 170 OF 464

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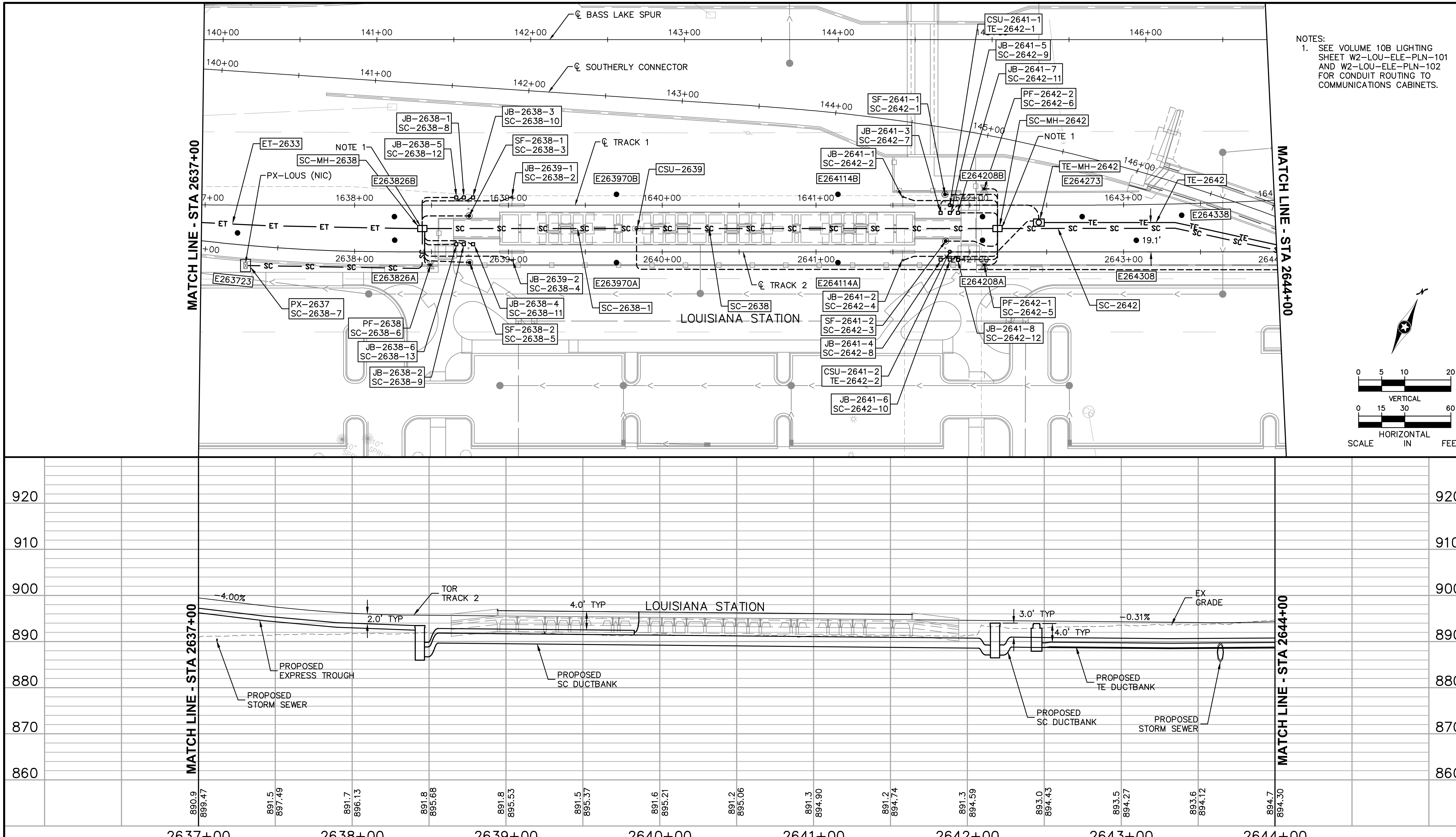

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2637+00 TO STA 2644+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-007

SHEET 171 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2638	2638+44	15.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2642	2642+18	15.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
PX-2637	2637+30	13.1' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2638	2638+49	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2642-1	2642+09	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2642-2	2642+09	40.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2638-1	2638+75	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2638-2	2638+75	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2641-1	2641+84	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2641-2	2641+84	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2638-1	2638+71	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2638-2	2638+71	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2638-3	2638+77	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2638-4	2638+77	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2638-5	2638+66	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2638-6	2638+66	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2639-1	2639+02	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2639-2	2639+02	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2641-1	2641+56	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2641-2	2641+56	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2641-3	2641+81	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2641-4	2641+81	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2641-5	2641+87	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2641-6	2641+87	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2641-7	2641+92	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2641-8	2641+92	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2639	2639+83	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2641-1	2641+87	30.4' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2641-2	2641+87	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
TE-MH-2642	2642+45	19.1' L	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2633	ET-TBX-2633	SC-MH-2638	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2638	SC-MH-2638	SC-MH-2642	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2638-1	SC-MH-2638	CSU-2639	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2638-7	SC-MH-2638	PX-2637	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2642	SC-MH-2642	SC-MH-2644	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2638-2	SC-MH-2638	JB-2639-1	1-2	STU-DTL-001	SC CONDUIT
SC-2638-3	SC-MH-2638	SF-2638-1	1-2	STU-DTL-001	SC CONDUIT
SC-2638-4	SC-MH-2638	JB-2639-2	1-2	STU-DTL-001	SC CONDUIT
SC-2638-5	SC-MH-2638	SF-2638-2	1-2	STU-DTL-001	SC CONDUIT
SC-2638-6	SC-MH-2638	PF-2638	1-4	STU-DTL-001	SC CONDUIT
SC-2638-8	SC-MH-2638	JB-2638-1	1-2	STU-DTL-001	SC CONDUIT
SC-2638-9	SC-MH-2638	JB-2638-2	1-2	STU-DTL-001	SC CONDUIT
SC-2638-10	SC-MH-2638	JB-2638-3	1-2	STU-DTL-001	SC CONDUIT
SC-2638-11	SC-MH-2638	JB-2638-4	1-2	STU-DTL-001	SC CONDUIT
SC-2638-12	SC-MH-2638	JB-2638-5	1-2	STU-DTL-001	SC CONDUIT
SC-2638-13	SC-MH-2638	JB-2638-6	1-2	STU-DTL-001	SC CONDUIT
SC-2642-1	SC-MH-2642	SF-2641-1	1-2	STU-DTL-001	SC CONDUIT
SC-2642-2	SC-MH-2642	JB-2641-1	1-2	STU-DTL-001	SC CONDUIT
SC-2642-3	SC-MH-2642	SF-2641-2	1-2	STU-DTL-001	SC CONDUIT
SC-2642-4	SC-MH-2642	JB-2641-2	1-2	STU-DTL-001	SC CONDUIT
SC-2642-5	SC-MH-2642	PF-2642-1	1-4	STU-DTL-001	SC CONDUIT
SC-2642-6	SC-MH-2642	PF-2642-2	1-4	STU-DTL-001	SC CONDUIT
SC-2642-7	SC-MH-2642	JB-2641-3	1-2	STU-DTL-001	SC CONDUIT
SC-2642-8	SC-MH-2642	JB-2641-4	1-2	STU-DTL-001	SC CONDUIT
SC-2642-9	SC-MH-2642	JB-2641-5	1-2	STU-DTL-001	SC CONDUIT
SC-2642-10	SC-MH-2642	JB-2641-6	1-2	STU-DTL-001	SC CONDUIT
SC-2642-11	SC-MH-2642	JB-2641-7	1-2	STU-DTL-001	SC CONDUIT
SC-2642-12	SC-MH-2642	JB-2641-8	1-2	STU-DTL-001	SC CONDUIT
TE-2642	TE-MH-2642	TE-MH-2647-1	4-5	4A/STU-DTL-002	TE DUCTBANK
TE-2642-1	TE-MH-2642	CSU-2641-1	1-5	STU-DTL-002	TE CONDUIT
TE-2642-2	TE-MH-2642	CSU-2641-2	1-5	STU-DTL-002	TE CONDUIT
LV-2644	SC-HH-2644	CSU-2639	1-2	STU-DTL-001	LV CONDUIT

NOTES:

1. SEE VOLUME 10B LIGHTING SHEET W2-LOU-ELE-PLN-101 AND W2-LOU-ELE-PLN-102 FOR CONDUIT ROUTING TO COMMUNICATIONS CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

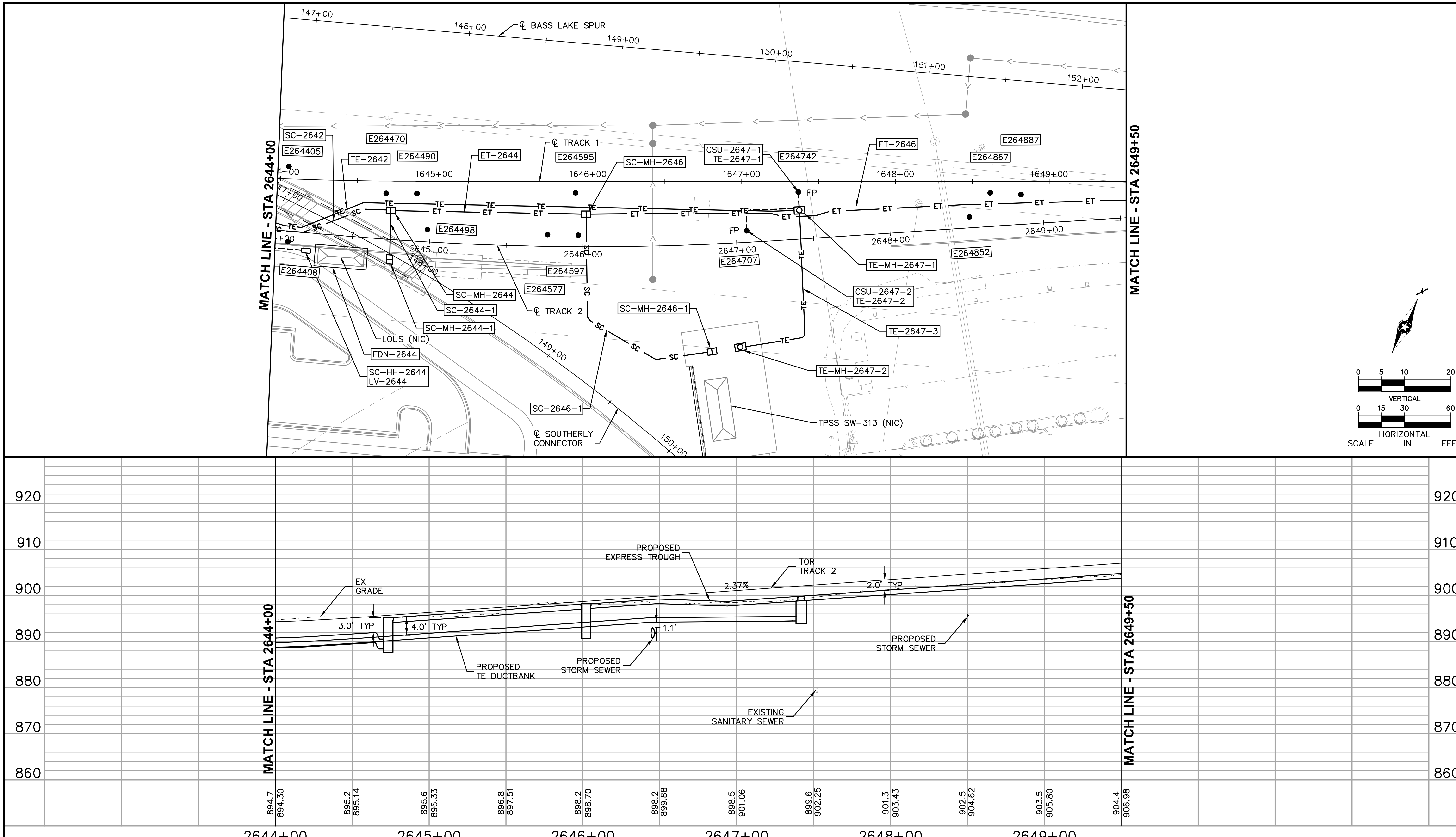
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2637+00 TO STA 2644+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-007



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2644+00 TO STA 2649+50

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-008

SHEET 173 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2644	2644+74	18.9' L	SWE-DTL-003	SC MANHOLE
SC-MH-2644-1	2644+75	13.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2646	2646+02	21.3' L	SWE-DTL-003	SC MANHOLE
SC-MH-2646-1	2646+81	70.0' R	SWE-DTL-003	SC MANHOLE
FDN-2644	2644+43	14.0' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
TE-MH-2647-1	2647+42	18.7' L	SWE-DTL-002	TE MANHOLE
TE-MH-2647-2	2646+99	67.9' R	SWE-DTL-002	TE MANHOLE
CSU-2647-1	2647+42	30.6' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2647-2	2647+07	7.5' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
SC-HH-2644	2644+21	11.7' R	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2644	SC-MH-2644	SC-MH-2646	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2646	SC-MH-2646	SC-MH-2666	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2642	SC-MH-2642	SC-MH-2644	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2644-1	SC-MH-2644	SC-MH-2644-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2646-1	SC-MH-2646	SC-MH-2646-1	2-4	2/STU-DTL-001	SC DUCTBANK
TE-2642	TE-MH-2642	TE-MH-2647-1	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2647-3	TE-MH-2647-1	TE-MH-2647-2	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2647-1	TE-MH-2647-1	CSU-2647-1	2-4	STU-DTL-002	TE CONDUIT
TE-2647-2	TE-MH-2647-1	CSU-2647-2	2-4	STU-DTL-002	TE CONDUIT
LV-2644	SC-HH-2644	CSU-2639	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

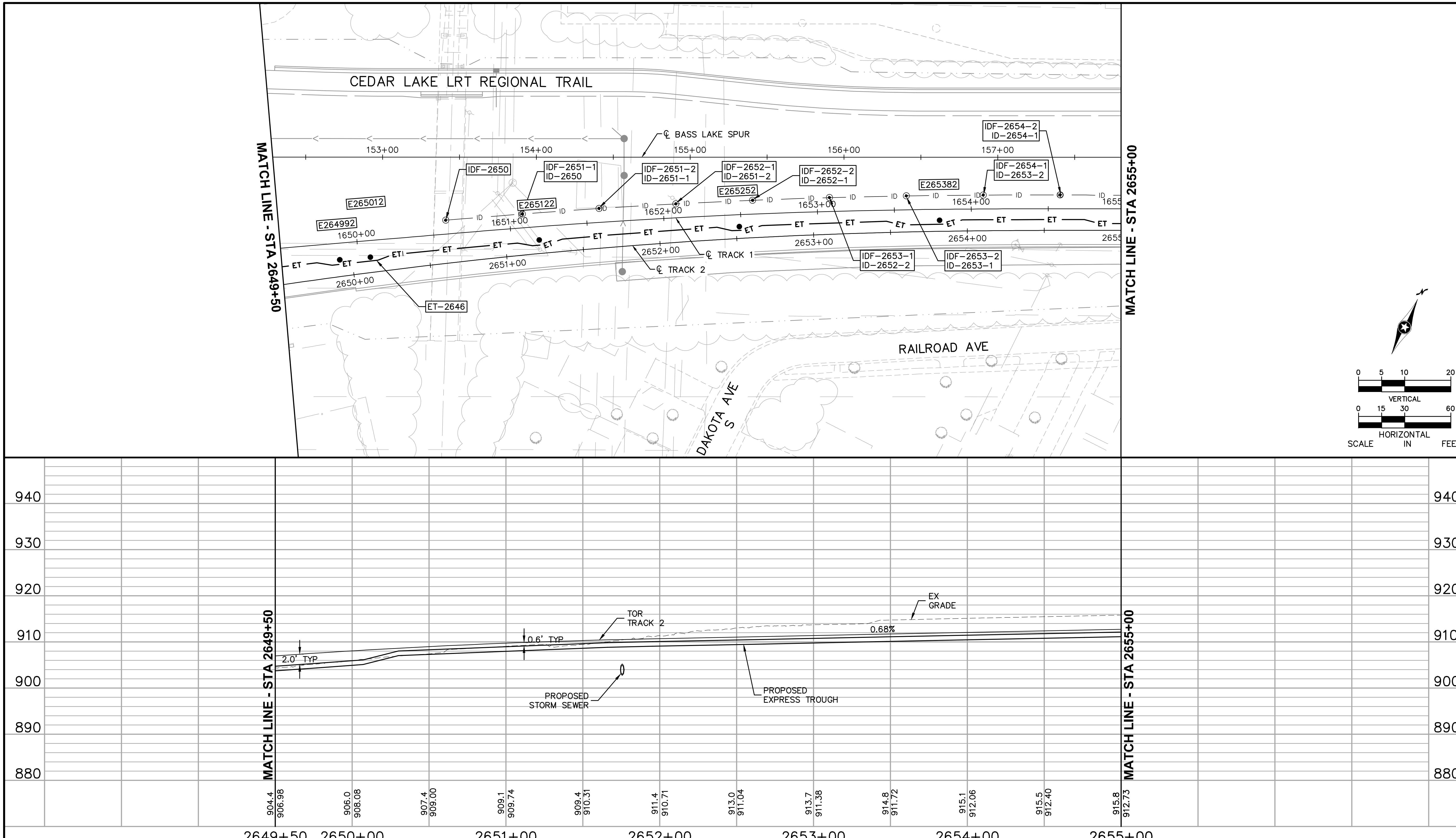
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2644+00 TO STA 2649+50

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-008

SHEET 174 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2649+50 TO STA 2655+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-009

SHEET 175 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2650	2650+63	27.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2651-1	2651+13	26.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2651-2	2651+62	25.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2652-1	2652+12	25.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2652-2	2652+62	24.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2653-1	2653+11	23.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2653-2	2653+61	23.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2654-1	2654+11	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2654-2	2654+60	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2646	SC-MH-2646	SC-MH-2666	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2650	IDF-2650	IDF-2651-1	1-2	STU-DTL-001	ID CONDUIT
ID-2651-1	IDF-2651-1	IDF-2651-2	1-2	STU-DTL-001	ID CONDUIT
ID-2651-2	IDF-2651-2	IDF-2652-1	1-2	STU-DTL-001	ID CONDUIT
ID-2652-1	IDF-2652-1	IDF-2652-2	1-2	STU-DTL-001	ID CONDUIT
ID-2652-2	IDF-2652-2	IDF-2653-1	1-2	STU-DTL-001	ID CONDUIT
ID-2653-1	IDF-2653-1	IDF-2653-2	1-2	STU-DTL-001	ID CONDUIT
ID-2653-2	IDF-2653-2	IDF-2654-1	1-2	STU-DTL-001	ID CONDUIT
ID-2654-1	IDF-2654-1	IDF-2654-2	1-2	STU-DTL-001	ID CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

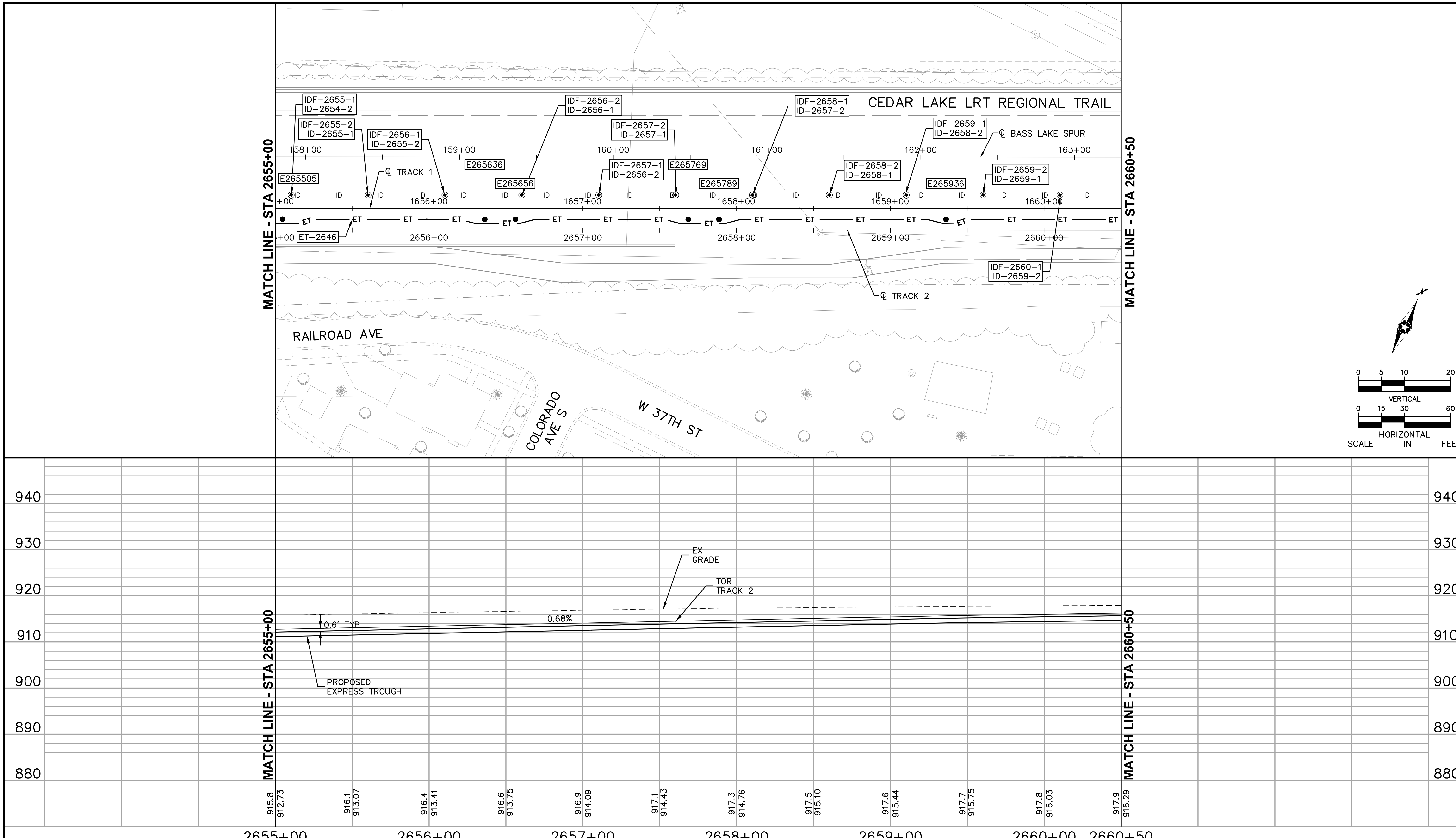
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2649+50 TO STA 2655+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-009

SHEET 176 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2655+00 TO STA 2660+50

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-010

SHEET 177 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2655-1	2655+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2655-2	2655+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2656-1	2656+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2656-2	2656+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2657-1	2657+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2657-2	2657+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2658-1	2658+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2658-2	2658+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2659-1	2659+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2659-2	2659+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2660-1	2660+11	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2646	SC-MH-2646	SC-MH-2666	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2654-2	IDF-2654-2	IDF-2655-1	1-2	STU-DTL-001	ID CONDUIT
ID-2655-1	IDF-2655-1	IDF-2655-2	1-2	STU-DTL-001	ID CONDUIT
ID-2655-2	IDF-2655-2	IDF-2656-1	1-2	STU-DTL-001	ID CONDUIT
ID-2656-1	IDF-2656-1	IDF-2656-2	1-2	STU-DTL-001	ID CONDUIT
ID-2656-2	IDF-2656-2	IDF-2657-1	1-2	STU-DTL-001	ID CONDUIT
ID-2657-1	IDF-2657-1	IDF-2657-2	1-2	STU-DTL-001	ID CONDUIT
ID-2657-2	IDF-2657-2	IDF-2658-1	1-2	STU-DTL-001	ID CONDUIT
ID-2658-1	IDF-2658-1	IDF-2658-2	1-2	STU-DTL-001	ID CONDUIT
ID-2658-2	IDF-2658-2	IDF-2659-1	1-2	STU-DTL-001	ID CONDUIT
ID-2659-1	IDF-2659-1	IDF-2659-2	1-2	STU-DTL-001	ID CONDUIT
ID-2659-2	IDF-2659-2	IDF-2660-1	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

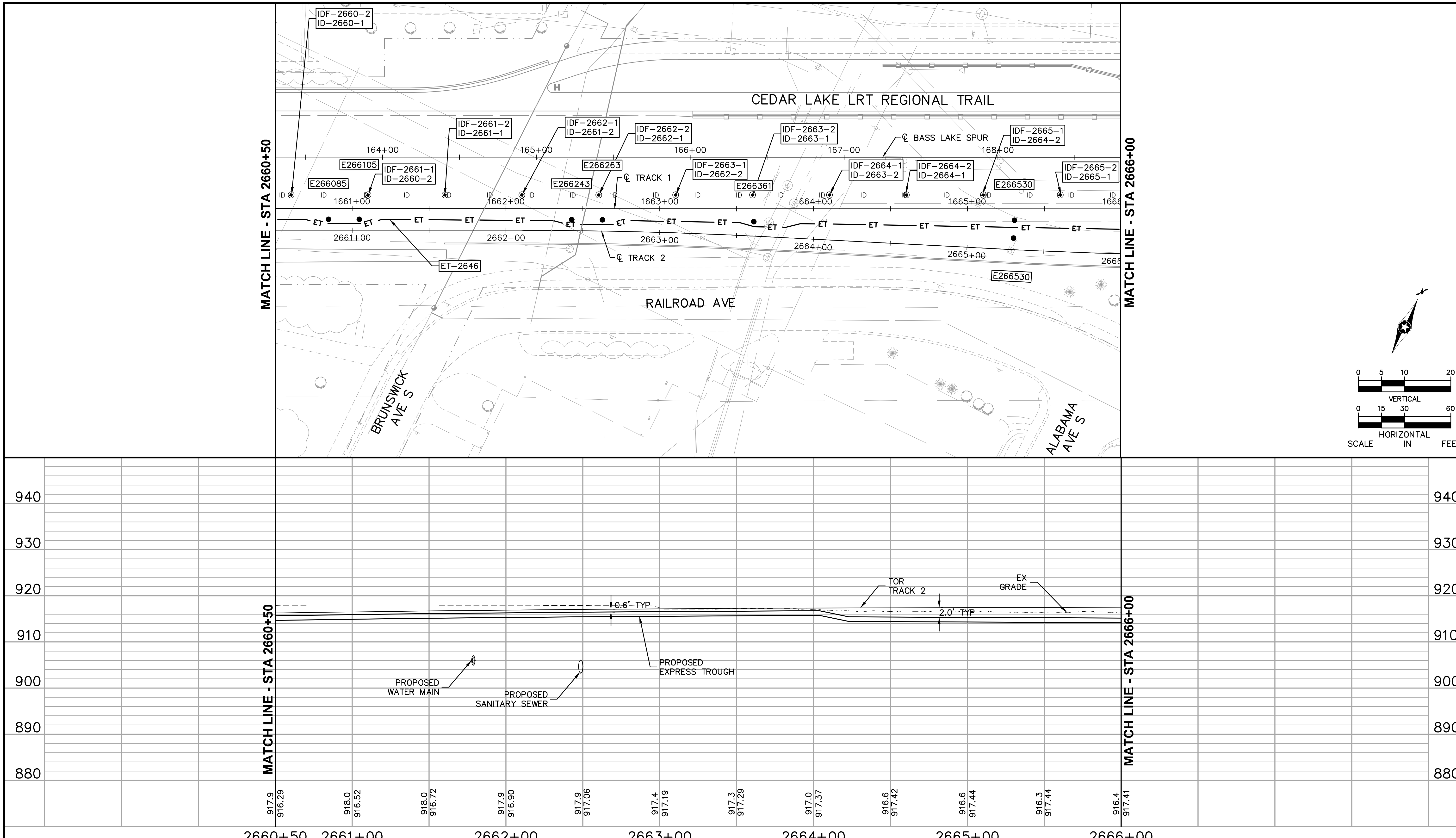
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2655+00 TO STA 2660+50

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-010



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2660+50 TO STA 2666+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-011

SHEET 179 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2660-2	2660+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2661-1	2661+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2661-2	2661+60	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2662-1	2662+10	22.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2662-2	2662+60	23.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2663-1	2663+10	24.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2663-2	2663+59	26.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2664-1	2664+09	29.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2664-2	2664+59	31.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2665-1	2665+09	34.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2665-2	2665+59	36.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2646	SC-MH-2646	SC-MH-2666	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2660-1	IDF-2660-1	IDF-2660-2	1-2	STU-DTL-001	ID CONDUIT
ID-2660-2	IDF-2660-2	IDF-2661-1	1-2	STU-DTL-001	ID CONDUIT
ID-2661-1	IDF-2661-1	IDF-2661-2	1-2	STU-DTL-001	ID CONDUIT
ID-2661-2	IDF-2661-2	IDF-2662-1	1-2	STU-DTL-001	ID CONDUIT
ID-2662-1	IDF-2662-1	IDF-2662-2	1-2	STU-DTL-001	ID CONDUIT
ID-2662-2	IDF-2662-2	IDF-2663-1	1-2	STU-DTL-001	ID CONDUIT
ID-2663-1	IDF-2663-1	IDF-2663-2	1-2	STU-DTL-001	ID CONDUIT
ID-2663-2	IDF-2663-2	IDF-2664-1	1-2	STU-DTL-001	ID CONDUIT
ID-2664-1	IDF-2664-1	IDF-2664-2	1-2	STU-DTL-001	ID CONDUIT
ID-2664-2	IDF-2664-2	IDF-2665-1	1-2	STU-DTL-001	ID CONDUIT
ID-2665-1	IDF-2665-1	IDF-2665-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2660+50 TO STA 2666+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-011

SHEET 180 OF 464

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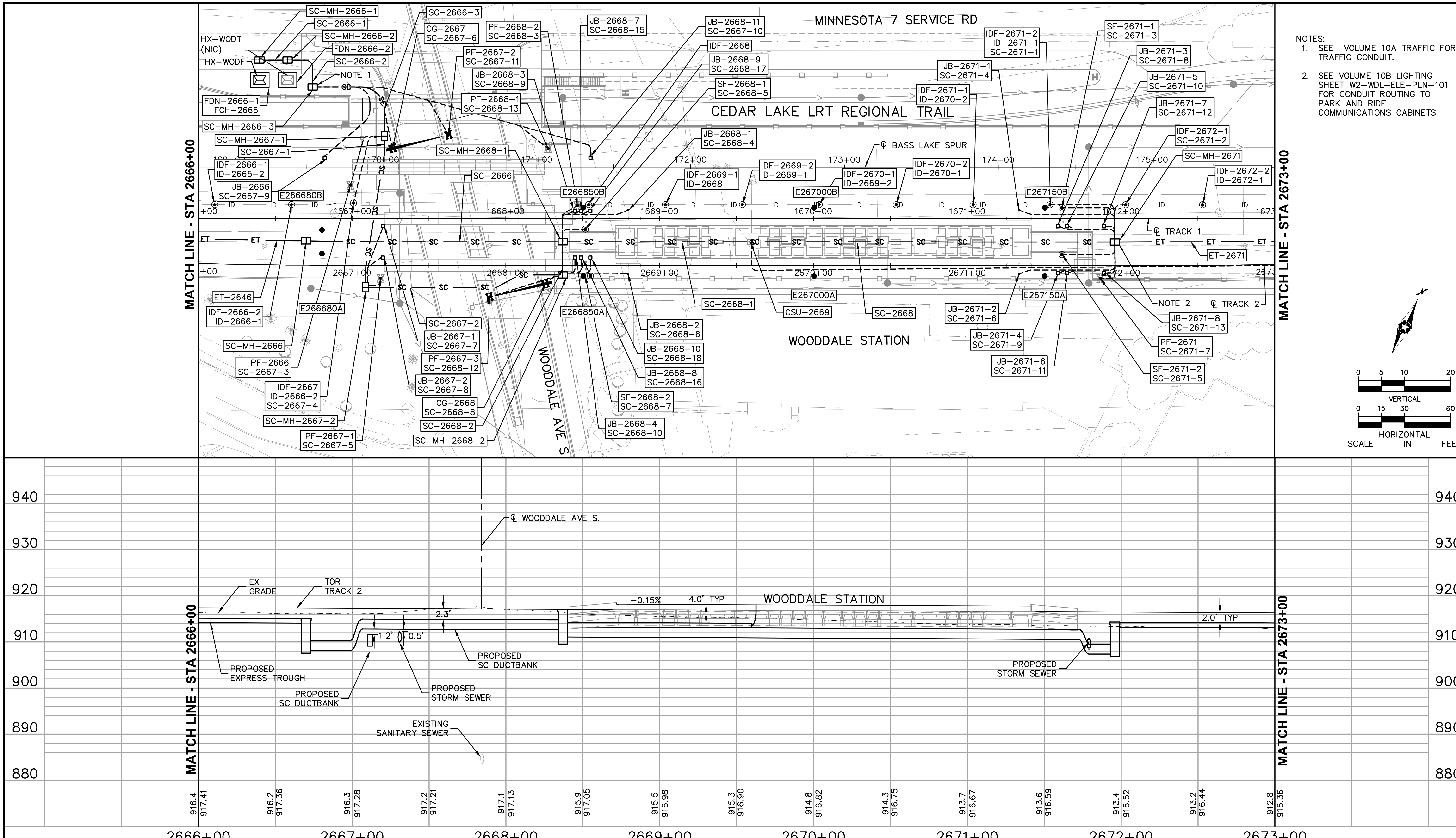

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-WDL-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINETS.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2666+00 TO STA 2673+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-012

SHEET 181 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2666	2666+70	15.8' L	SWE-DTL-003	SC MANHOLE
SC-MH-2666-1	2666+38	133.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2666-2	2666+57	133.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2666-3	2666+74	115.8' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2667-1	2667+21	84.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2667-2	2667+09	14.3' R	SWE-DTL-003	SC MANHOLE
SC-MH-2668-1	2668+37	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2668-2	2668+37	6.3' R	SWE-DTL-003	SC MANHOLE
SC-MH-2671	2671+96	15.2' L	SWE-DTL-003, NOTE 2	SC MANHOLE
FDN-2666-1	2666+38	120.1' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2666-2	2666+57	120.3' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FCH-2666	2666+38	120.1' L	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE
SF-2668-1	2668+52	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2668-2	2668+52	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2671-1	2671+62	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2671-2	2671+62	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
CG-2667	2667+26	75.9' L	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CG-2668	2668+26	12.0' R	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
PF-2666	2666+99	51.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2667-1	2667+19	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2667-2	2667+63	84.7' L	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2667-3	2667+89	20.7' R	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2668-1	2668+27	75.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2668-2	2668+47	38.8' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2671	2671+87	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2666	2666+82	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2667-1	2667+20	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2667-2	2667+20	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2668-1	2668+80	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2668-2	2668+80	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2668-3	2668+45	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2668-4	2668+45	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2668-7	2668+49	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2668-8	2668+49	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2668-9	2668+55	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2668-10	2668+55	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2668-11	2668+55	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2671-1	2671+34	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2671-2	2671+34	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2671-3	2671+59	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2671-4	2671+59	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2671-5	2671+65	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2671-6	2671+65	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2671-7	2671+89	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2671-8	2671+89	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2669	2669+60	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
IDF-2666-1	2666+10	38.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2666-2	2666+60	39.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2667	2667+01	40.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2668	2668+54	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2669-1	2669+04	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2669-2	2669+54	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2670-1	2670+04	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2670-2	2670+54	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2671-1	2671+04	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2671-2	2671+54	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2672-1	2672+03	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2672-2	2672+53	39.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2646	SC-MH-2646	SC-MH-2666	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2671	SC-MH-2671	SC-MH-2675	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2666	SC-MH-2666	SC-MH-2668-1	9-4	9A/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2668	SC-MH-2668-1	SC-MH-2671	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2666-1	SC-MH-2666-1	SC-MH-2666-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2666-2	SC-MH-2666-2	SC-MH-2666-3	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2666-3	SC-MH-2666-3	SC-MH-2667-1	8-4	8/STU-DTL-001	SC DUCTBANK
SC-2667-1	SC-MH-2667-1	SC-MH-2667-2	8-4	8/STU-DTL-001	SC DUCTBANK
SC-2667-2	SC-MH-2667-2	SC-MH-2668-2	8-4	8/STU-DTL-001	
SC-2668-1	SC-MH-2668-1	CSU-2669	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2668-2	SC-MH-2668-2	SC-MH-2668-1	12-4	12/STU-DTL-001	SC DUCTBANK
SC-2667-3	SC-MH-2667-1	PF-2666	1-4	STU-DTL-001	SC CONDUIT
SC-2667-4	SC-MH-2667-1	IDF-2667	1-2	STU-DTL-001	SC CONDUIT
SC-2667-5	SC-MH-2667-2	PF-2667-1	1-4	STU-DTL-001	SC CONDUIT
SC-2667-6	SC-MH-2666-3	CG-2667	2-4	STU-DTL-001	SC CONDUIT
SC-2667-7	SC-MH-2667-2	JB-2667-1	1-2	STU-DTL-001	SC CONDUIT
SC-2667-8	SC-MH-2667-2	JB-2667-2	1-2	STU-DTL-001	SC CONDUIT
SC-2667-9	SC-MH-2666-3	JB-2666	1-2	STU-DTL-001	SC CONDUIT
SC-2667-10	SC-MH-2666-3	JB-2668-11	1-2	STU-DTL-001	SC CONDUIT
SC-2667-11	SC-MH-2666-3	PF-2667-2	2-4	STU-DTL-001	SC CONDUIT
SC-2668-13	SC-MH-2666-3	PF-2668-1	1-4	STU-DTL-001	SC CONDUIT
SC-2668-3	SC-MH-2668-1	PF-2668-2	1-4	STU-DTL-001	SC CONDUIT
SC-2668-4	SC-MH-2668-1	JB-2668-1	1-2	STU-DTL-001	SC CONDUIT
SC-2668-5	SC-MH-2668-1	SF-2668-1	1-2	STU-DTL-001	SC CONDUIT
SC-2668-6	SC-MH-2668-2	JB-2668-2	1-2	STU-DTL-001	SC CONDUIT
SC-2668-7	SC-MH-2668-2	SF-2668-2	1-2	STU-DTL-001	SC CONDUIT
SC-2668-8	SC-MH-2668-2	CG-2668	2-4	STU-DTL-001	SC CONDUIT
SC-2668-9	SC-MH-2668-1	JB-2668-3	1-2	STU-DTL-001	SC CONDUIT
SC-2668-10	SC-MH-2668-2	JB-2668-4	1-2	STU-DTL-001	SC CONDUIT
SC-2668-12	SC-MH-2668-2	PF-2667-3	2-4	STU-DTL-001	SC CONDUIT
SC-2668-15	SC-MH-2668-1	JB-2668-7	1-2	STU-DTL-001	SC CONDUIT
SC-2668-16	SC-MH-2668-2	JB-2668-8	1-2	STU-DTL-001	SC CONDUIT
SC-2668-17	SC-MH-2668-1	JB-2668-9	1-2	STU-DTL-001	SC CONDUIT
SC-2668-18	SC-MH-2668-2	JB-2668-10	1-2	STU-DTL-001	SC CONDUIT
SC-2671-1	SC-MH-2671	IDF-2671-2	1-2	STU-DTL-001	SC CONDUIT
SC-2671-2	SC-MH-2671	IDF-2672-1	1-2	STU-DTL-001	SC CONDUIT
SC-2671-3	SC-MH-2671	SF-2671-1	1-2	STU-DTL-001	SC CONDUIT
SC-2671-4	SC-MH-2671	JB-2671-1	1-2	STU-DTL-001	SC CONDUIT
SC-2671-5	SC-MH-2671	SF-2671-2	1-2	STU-DTL-001	SC CONDUIT
SC-2671-6	SC-MH-2671	JB-2671-2	1-2	STU-DTL-001	SC CONDUIT
SC-2671-7	SC-MH-2671	PF-2671	1-4	STU-DTL-001	SC CONDUIT
SC-2671-8	SC-MH-2671	JB-2671-3	1-2	STU-DTL-001	SC CONDUIT
SC-2671-9	SC-MH-2671	JB-2671-4	1-2	STU-DTL-001	SC CONDUIT
SC-2671-10	SC-MH-2671	JB-2671-5	1-2	STU-DTL-001	SC CONDUIT
SC-2671-11	SC-MH-2671	JB-2671-6	1-2	STU-DTL-001	SC CONDUIT
SC-2671-12	SC-MH-2671	JB-2671-7	1-2	STU-DTL-001	SC CONDUIT
SC-2671-13	SC-MH-2671	JB-2671-8	1-2	STU-DTL-001	SC CONDUIT
ID-2665-2	IDF-2665-2	IDF-2666-1	1-2	STU-DTL-001	ID CONDUIT
ID-2666-1	IDF-2666-1	IDF-2666-2	1-2	STU-DTL-001	ID CONDUIT
ID-2666-2	IDF-2666-2	IDF-2667	1-2	STU-DTL-001	ID CONDUIT
ID-2668	IDF-2668	IDF-2669-1	1-2	STU-DTL-001	ID CONDUIT
ID-2669-1	IDF-2669-1	IDF-2669-2	1-2	STU-DTL-001	ID CONDUIT
ID-2669-2	IDF-2669-2	IDF-2670-1	1-2	STU-DTL-001	ID CONDUIT
ID-2670-1	IDF-2670-1	IDF-2670-2	1-2	STU-DTL-001	ID CONDUIT
ID-2670-2	IDF-2670-2	IDF-2671-1	1-2	STU-DTL-001	ID CONDUIT
ID-2671-1	IDF-2671-1	IDF-2671-2	1-2	STU-DTL-001	ID CONDUIT
ID-2672-1	IDF-2672-1	IDF-2672-2	1-2	STU-DTL-001	ID CONDUIT
LV-2675	SC-HH-2675	CSU-2669	1-2	STU-DTL-001	LV CONDUIT

NOTES:

1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B LIGHTING SHEET W2-WDL-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2666+00 TO STA 2673+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-012

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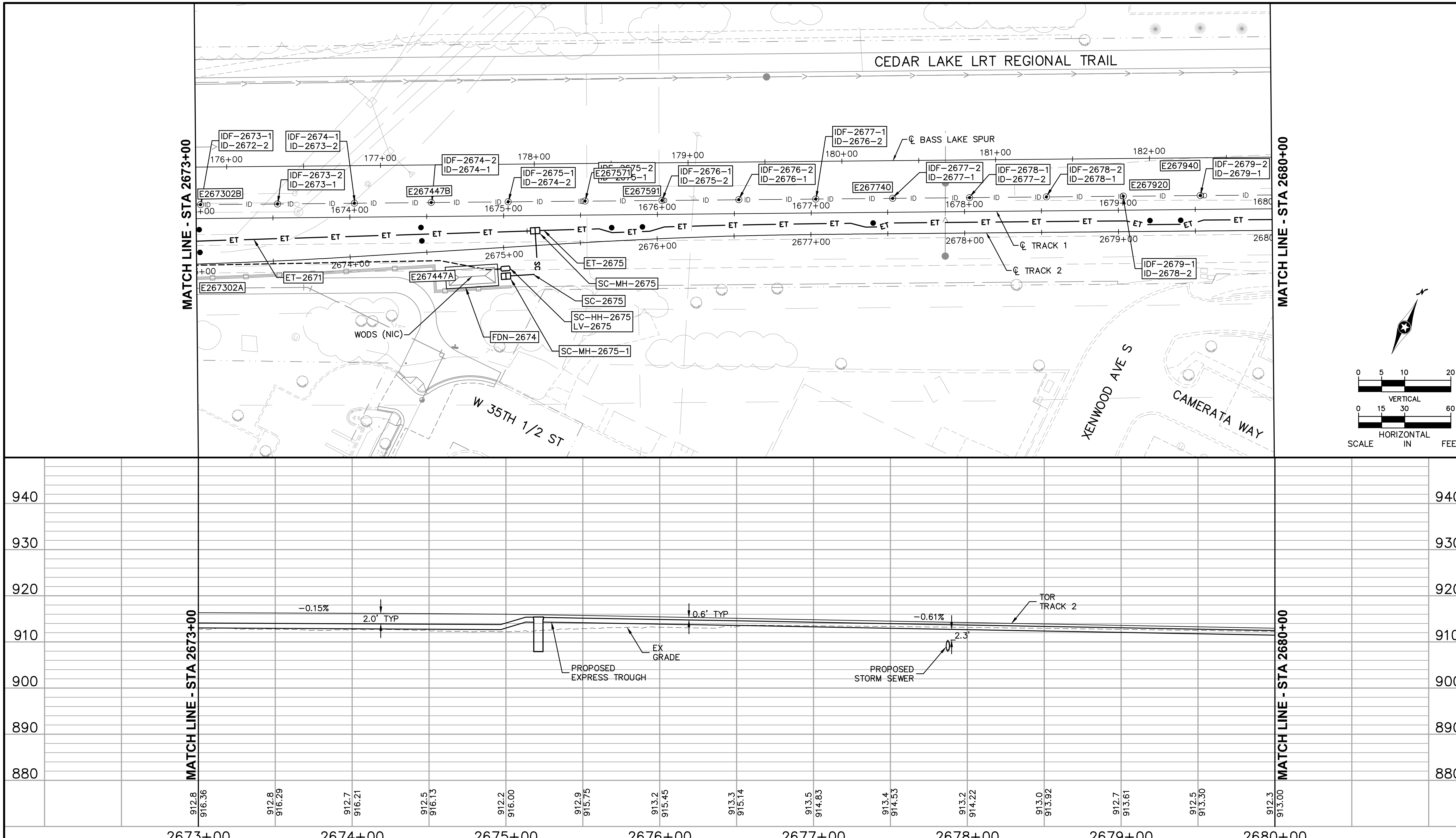

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL PLAN AND PROFILE
STA 2673+00 TO STA 2680+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-013

SHEET 183 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2675	2675+21	9.7' L	SWE-DTL-003	SC MANHOLE
SC-MH-2675-1	2675+00	18.7' R	SWE-DTL-003	SC MANHOLE
FDN-2674	2674+78	17.5' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
IDF-2673-1	2673+04	38.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2673-2	2673+54	37.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2674-1	2674+05	34.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2674-2	2674+55	32.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2675-1	2675+05	29.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2675-2	2675+55	26.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2676-1	2676+04	24.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2676-2	2676+54	23.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2677-1	2677+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2677-2	2677+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2678-1	2678+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2678-2	2678+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2679-1	2679+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2679-2	2679+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
SC-HH-2675	2675+00	13.7' R	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2671	SC-MH-2671	SC-MH-2675	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2675	SC-MH-2675	ET-TBX-2687	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2675	SC-MH-2675	SC-MH-2675-1	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
ID-2672-2	IDF-2672-2	IDF-2673-1	1-2	STU-DTL-001	ID CONDUIT
ID-2673-1	IDF-2673-1	IDF-2673-2	1-2	STU-DTL-001	ID CONDUIT
ID-2673-2	IDF-2673-2	IDF-2674-1	1-2	STU-DTL-001	ID CONDUIT
ID-2674-1	IDF-2674-1	IDF-2674-2	1-2	STU-DTL-001	ID CONDUIT
ID-2674-2	IDF-2674-2	IDF-2675-1	1-2	STU-DTL-001	ID CONDUIT
ID-2675-1	IDF-2675-1	IDF-2675-2	1-2	STU-DTL-001	ID CONDUIT
ID-2675-2	IDF-2675-2	IDF-2676-1	1-2	STU-DTL-001	ID CONDUIT
ID-2676-1	IDF-2676-1	IDF-2676-2	1-2	STU-DTL-001	ID CONDUIT
ID-2676-2	IDF-2676-2	IDF-2677-1	1-2	STU-DTL-001	ID CONDUIT
ID-2677-1	IDF-2677-1	IDF-2677-2	1-2	STU-DTL-001	ID CONDUIT
ID-2677-2	IDF-2677-2	IDF-2678-1	1-2	STU-DTL-001	ID CONDUIT
ID-2678-1	IDF-2678-1	IDF-2678-2	1-2	STU-DTL-001	ID CONDUIT
ID-2678-2	IDF-2678-2	IDF-2679-1	1-2	STU-DTL-001	ID CONDUIT
ID-2679-1	IDF-2679-1	IDF-2679-2	1-2	STU-DTL-001	ID CONDUIT
LV-2675	SC-HH-2675	CSU-2669	1-2	STU-DTL-001	LV CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2673+00 TO STA 2680+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-013

SHEET 184 OF 464

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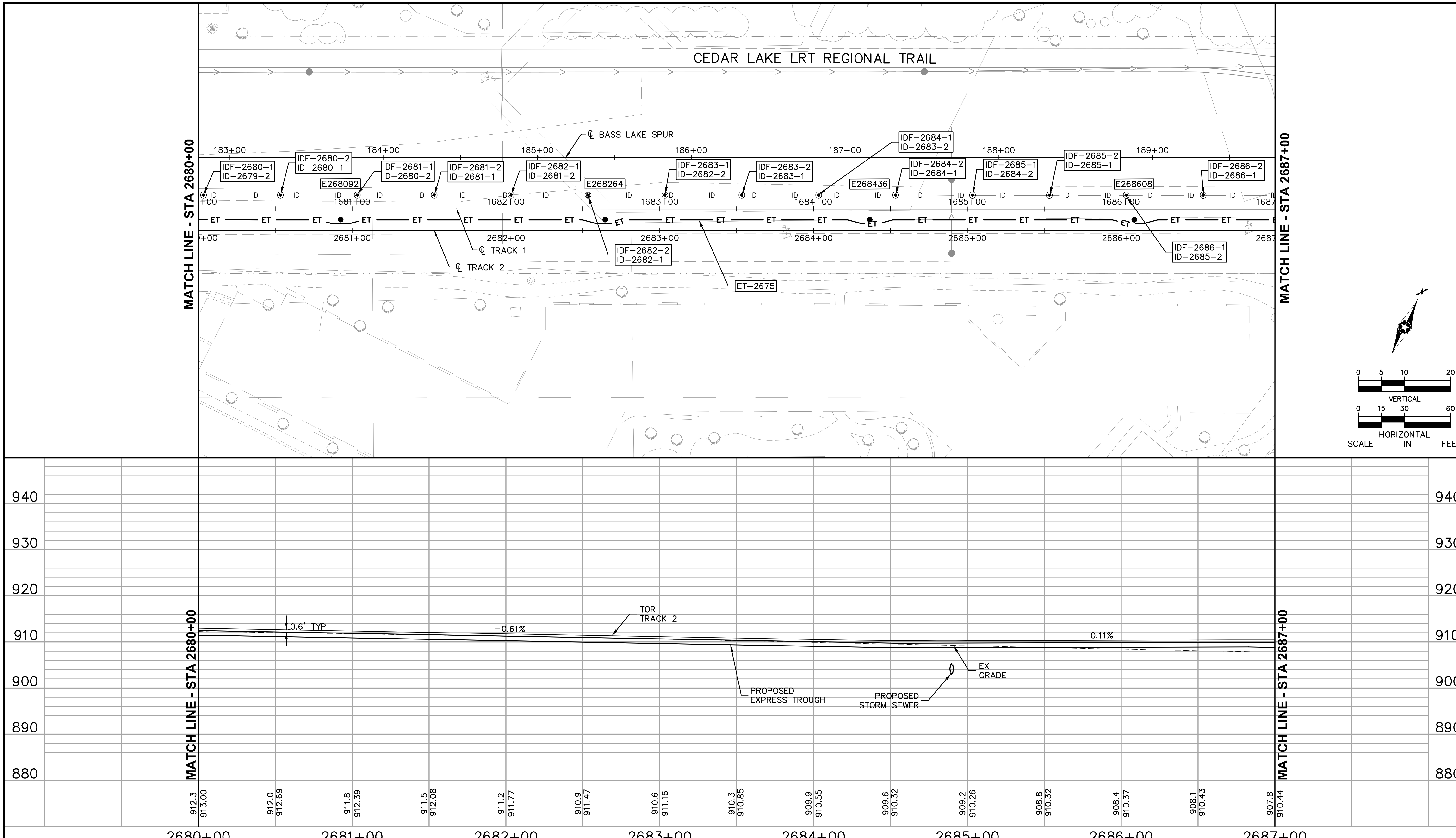

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2680+00 TO STA 2687+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-014

SHEET 185 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2680-1	2680+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2680-2	2680+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2681-1	2681+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2681-2	2681+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2682-1	2682+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2682-2	2682+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2683-1	2683+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2683-2	2683+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2684-1	2684+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2684-2	2684+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2685-1	2685+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2685-2	2685+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2686-1	2686+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2686-2	2686+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2675	SC-MH-2675	ET-TBX-2687	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2679-2	IDF-2679-2	IDF-2680-1	1-2	STU-DTL-001	ID CONDUIT
ID-2680-1	IDF-2680-1	IDF-2680-2	1-2	STU-DTL-001	ID CONDUIT
ID-2680-2	IDF-2680-2	IDF-2681-1	1-2	STU-DTL-001	ID CONDUIT
ID-2681-1	IDF-2681-1	IDF-2681-2	1-2	STU-DTL-001	ID CONDUIT
ID-2681-2	IDF-2681-2	IDF-2682-1	1-2	STU-DTL-001	ID CONDUIT
ID-2682-1	IDF-2682-1	IDF-2682-2	1-2	STU-DTL-001	ID CONDUIT
ID-2682-2	IDF-2682-2	IDF-2683-1	1-2	STU-DTL-001	ID CONDUIT
ID-2683-1	IDF-2683-1	IDF-2683-2	1-2	STU-DTL-001	ID CONDUIT
ID-2683-2	IDF-2683-2	IDF-2684-1	1-2	STU-DTL-001	ID CONDUIT
ID-2684-1	IDF-2684-1	IDF-2684-2	1-2	STU-DTL-001	ID CONDUIT
ID-2684-2	IDF-2684-2	IDF-2685-1	1-2	STU-DTL-001	ID CONDUIT
ID-2685-1	IDF-2685-1	IDF-2685-2	1-2	STU-DTL-001	ID CONDUIT
ID-2685-2	IDF-2685-2	IDF-2686-1	1-2	STU-DTL-001	ID CONDUIT
ID-2686-1	IDF-2686-1	IDF-2686-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

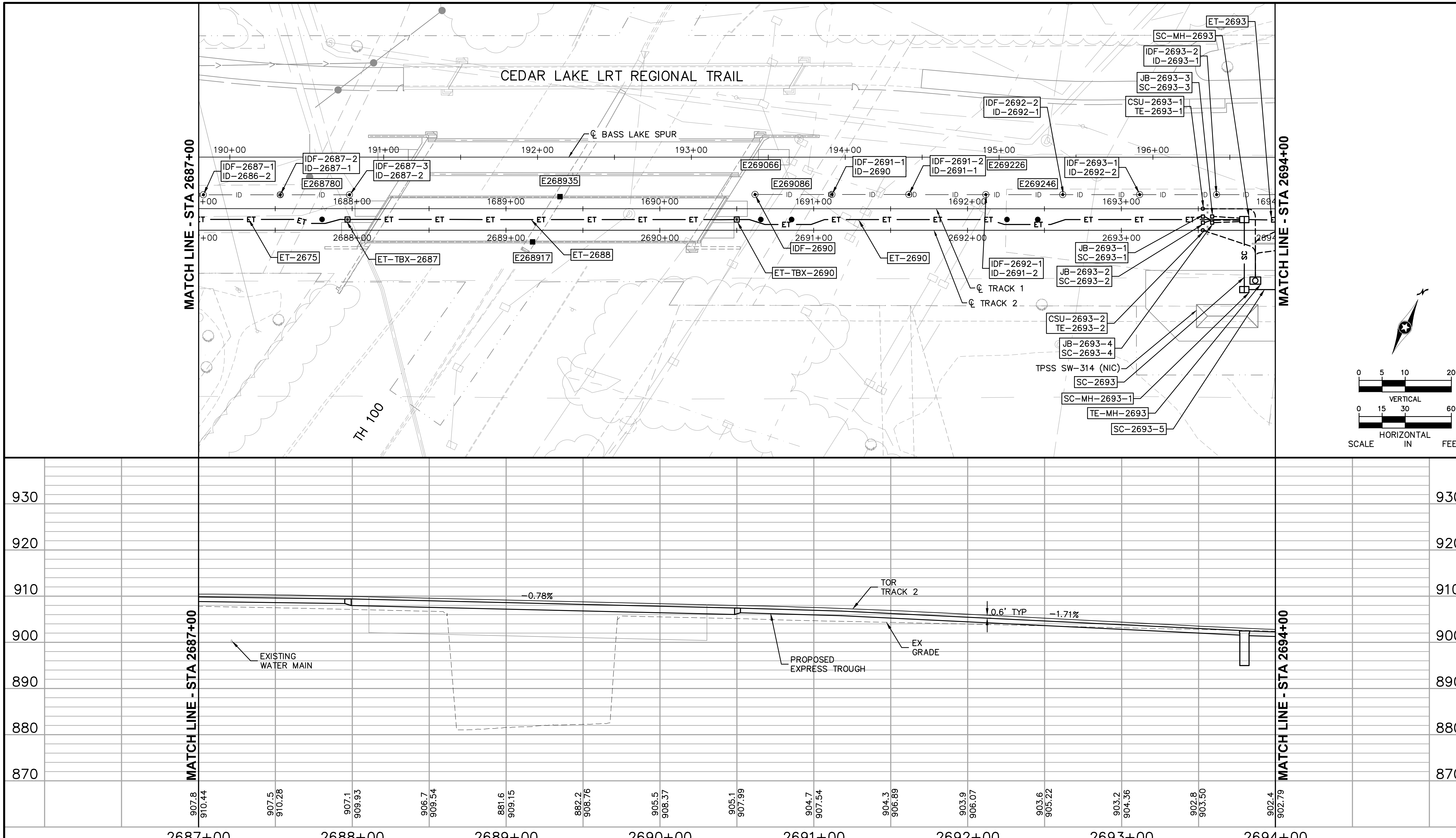
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2680+00 TO STA 2687+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-014

SHEET 186 OF 464

Jan, 18 2016 08:21 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E2-SYS-SWE-PRF.dwg By: V-MccallAE



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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2687+00 TO STA 2694+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-015

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2693	2693+80	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2693-1	2693+80	38.5' R	SWE-DTL-003	SC MANHOLE
ET-TBX-2687	2687+97	7.0' L	SWE-DTL-011	EXPRESS TROUGH TRANSITION BOX
ET-TBX-2690	2690+50	7.0' L	SWE-DTL-011	EXPRESS TROUGH TRANSITION BOX
IDF-2687-1	2687+03	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2687-2	2687+53	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2687-3	2687+98	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2690	2690+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2691-1	2691+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2691-2	2691+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2692-1	2691+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2692-2	2692+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2693-1	2693+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2693-2	2693+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2693-1	2693+53	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2693-2	2693+53	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2693-3	2693+59	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2693-4	2693+59	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
CSU-2693-1	2693+53	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2693-2	2693+53	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
TE-MH-2693	2693+87	32.6' R	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2675	SC-MH-2675	ET-TBX-2687	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2688	ET-TBX-2687	ET-TBX-2690	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
ET-2690	ET-TBX-2690	SC-MH-2693	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2693	SC-MH-2693	SC-MH-2710	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2693	SC-MH-2693	SC-MH-2693-1	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2693-1	SC-MH-2693	JB-2693-1	1-2	STU-DTL-001	SC CONDUIT
SC-2693-2	SC-MH-2693	JB-2693-2	1-2	STU-DTL-001	SC CONDUIT
SC-2693-3	SC-MH-2693	JB-2693-3	1-2	STU-DTL-001	SC CONDUIT
SC-2693-4	SC-MH-2693	JB-2693-4	1-2	STU-DTL-001	SC CONDUIT
SC-2693-5	SC-MH-2693-1	FDN-2694	4-4	STU-DTL-001	SC CONDUIT
ID-2686-2	IDF-2686-2	IDF-2687-1	1-2	STU-DTL-001	ID CONDUIT
ID-2687-1	IDF-2687-1	IDF-2687-2	1-2	STU-DTL-001	ID CONDUIT
ID-2687-2	IDF-2687-2	IDF-2687-3	1-2	STU-DTL-001	ID CONDUIT
ID-2690	IDF-2690	IDF-2691-1	1-2	STU-DTL-001	ID CONDUIT
ID-2691-1	IDF-2691-1	IDF-2691-2	1-2	STU-DTL-001	ID CONDUIT
ID-2691-2	IDF-2691-2	IDF-2692-1	1-2	STU-DTL-001	ID CONDUIT
ID-2692-1	IDF-2692-1	IDF-2692-2	1-2	STU-DTL-001	ID CONDUIT
ID-2692-2	IDF-2692-2	IDF-2693-1	1-2	STU-DTL-001	ID CONDUIT
ID-2693-1	IDF-2693-1	IDF-2693-2	1-2	STU-DTL-001	ID CONDUIT
TE-2693-1	TE-MH-2693	CSU-2693-1	1-5	STU-DTL-002	TE CONDUIT
TE-2693-2	TE-MH-2693	CSU-2693-2	1-5	STU-DTL-002	TE CONDUIT

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90% SUBMISSION - 01/22/16

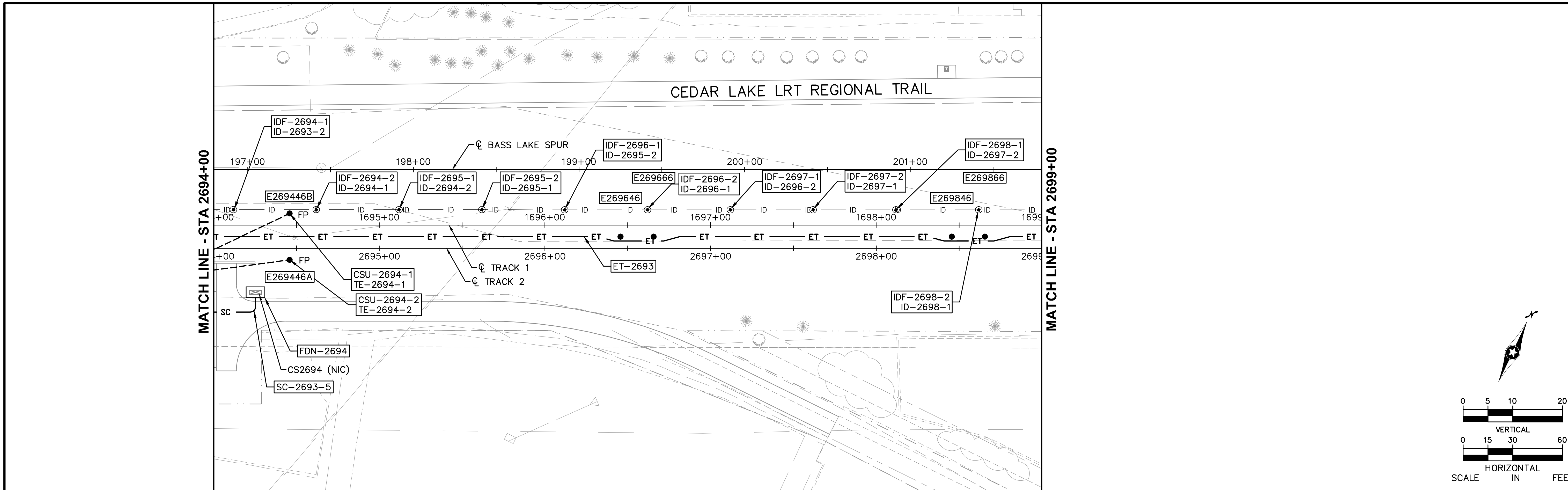
METROPOLITAN COUNCIL

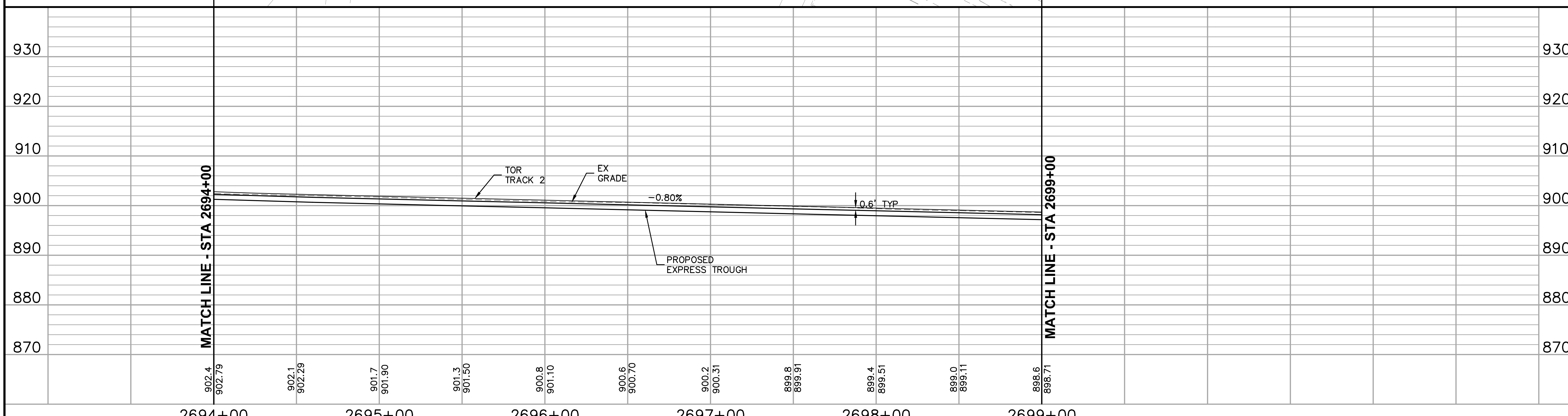
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2687+00 TO STA 2694+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-015





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2694+00 TO STA 2699+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-016

SHEET 189 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
FDN-2694	2694+25	26.6' R	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
CSU-2694-1	2694+46	21.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2694-2	2694+46	7.0' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
IDF-2694-1	2694+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2694-2	2694+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2695-1	2695+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2695-2	2695+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2696-1	2696+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2696-2	2696+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2697-1	2697+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2697-2	2697+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2698-1	2698+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2698-2	2698+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2693	SC-MH-2693	SC-MH-2710	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2693-5	SC-MH-2693-1	FDN-2694	4-4	4/STU-DTL-001	SC DUCTBANK
ID-2693-2	IDF-2693-2	IDF-2694-1	1-2	STU-DTL-001	ID CONDUIT
ID-2694-1	IDF-2694-1	IDF-2694-2	1-2	STU-DTL-001	ID CONDUIT
ID-2694-2	IDF-2694-2	IDF-2695-1	1-2	STU-DTL-001	ID CONDUIT
ID-2695-1	IDF-2695-1	IDF-2695-2	1-2	STU-DTL-001	ID CONDUIT
ID-2695-2	IDF-2695-2	IDF-2696-1	1-2	STU-DTL-001	ID CONDUIT
ID-2696-1	IDF-2696-1	IDF-2696-2	1-2	STU-DTL-001	ID CONDUIT
ID-2696-2	IDF-2696-2	IDF-2697-1	1-2	STU-DTL-001	ID CONDUIT
ID-2697-1	IDF-2697-1	IDF-2697-2	1-2	STU-DTL-001	ID CONDUIT
ID-2697-2	IDF-2697-2	IDF-2698-1	1-2	STU-DTL-001	ID CONDUIT
ID-2698-1	IDF-2698-1	IDF-2698-2	1-2	STU-DTL-001	ID CONDUIT
TE-2694-1	TE-MH-2693	CSU-2694-1	2-4	STU-DTL-002	TE CONDUIT
TE-2694-2	TE-MH-2693	CSU-2694-2	2-4	STU-DTL-002	TE CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

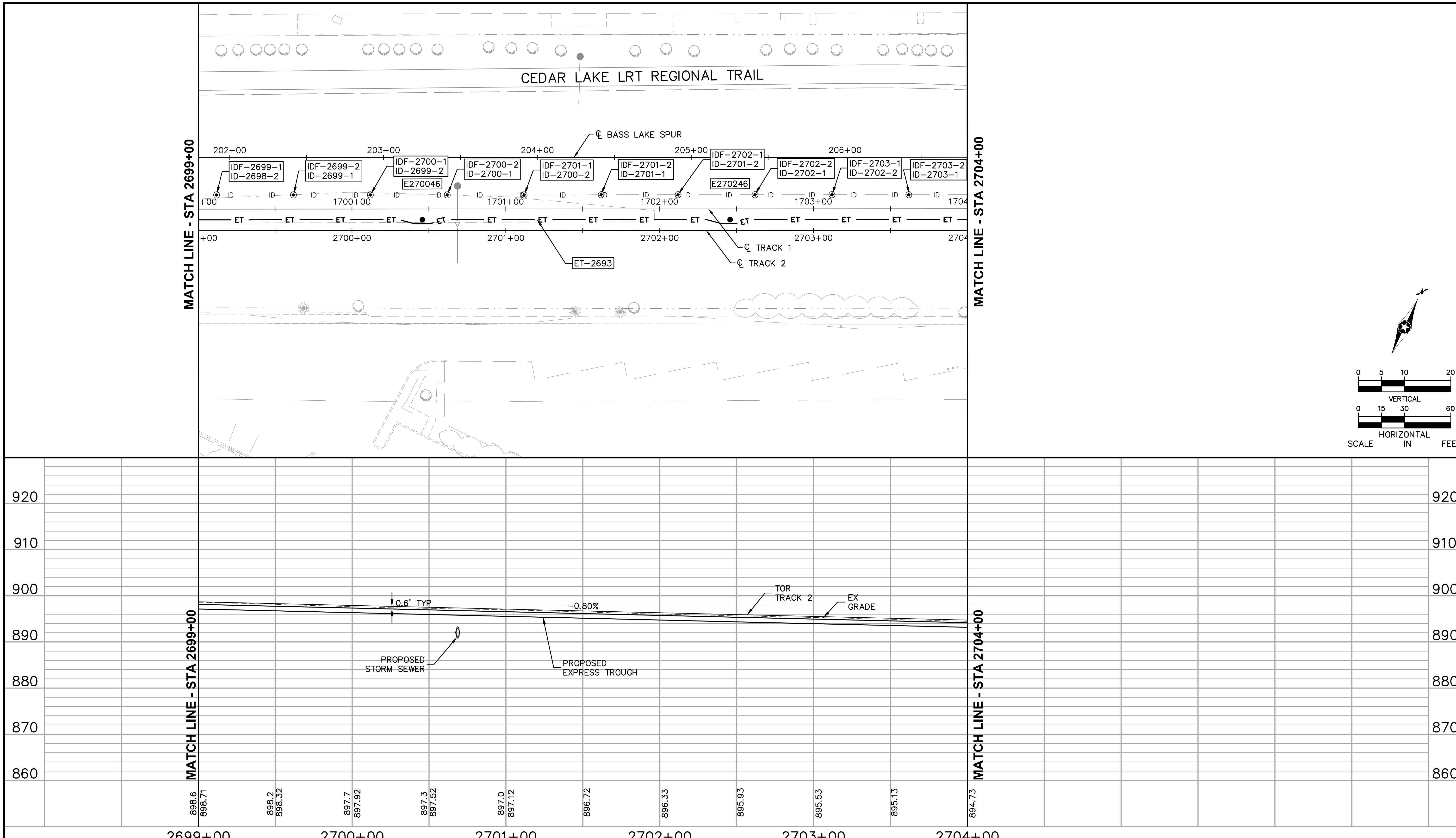
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2694+00 TO STA 2699+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-016

SHEET 190 OF 464



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2699+00 TO STA 2704+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-017

SHEET 191 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2699-1	2699+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2699-2	2699+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2700-1	2700+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2700-2	2700+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2701-1	2701+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2701-2	2701+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2702-1	2702+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2702-2	2702+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2703-1	2703+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2703-2	2703+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2693	SC-MH-2693	SC-MH-2710	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2698-2	IDF-2698-2	IDF-2699-1	1-2	STU-DTL-001	ID CONDUIT
ID-2699-1	IDF-2699-1	IDF-2699-2	1-2	STU-DTL-001	ID CONDUIT
ID-2699-2	IDF-2699-2	IDF-2700-1	1-2	STU-DTL-001	ID CONDUIT
ID-2700-1	IDF-2700-1	IDF-2700-2	1-2	STU-DTL-001	ID CONDUIT
ID-2700-2	IDF-2700-2	IDF-2701-1	1-2	STU-DTL-001	ID CONDUIT
ID-2701-1	IDF-2701-1	IDF-2701-2	1-2	STU-DTL-001	ID CONDUIT
ID-2701-2	IDF-2701-2	IDF-2702-1	1-2	STU-DTL-001	ID CONDUIT
ID-2702-1	IDF-2702-1	IDF-2702-2	1-2	STU-DTL-001	ID CONDUIT
ID-2702-2	IDF-2702-2	IDF-2703-1	1-2	STU-DTL-001	ID CONDUIT
ID-2703-1	IDF-2703-1	IDF-2703-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

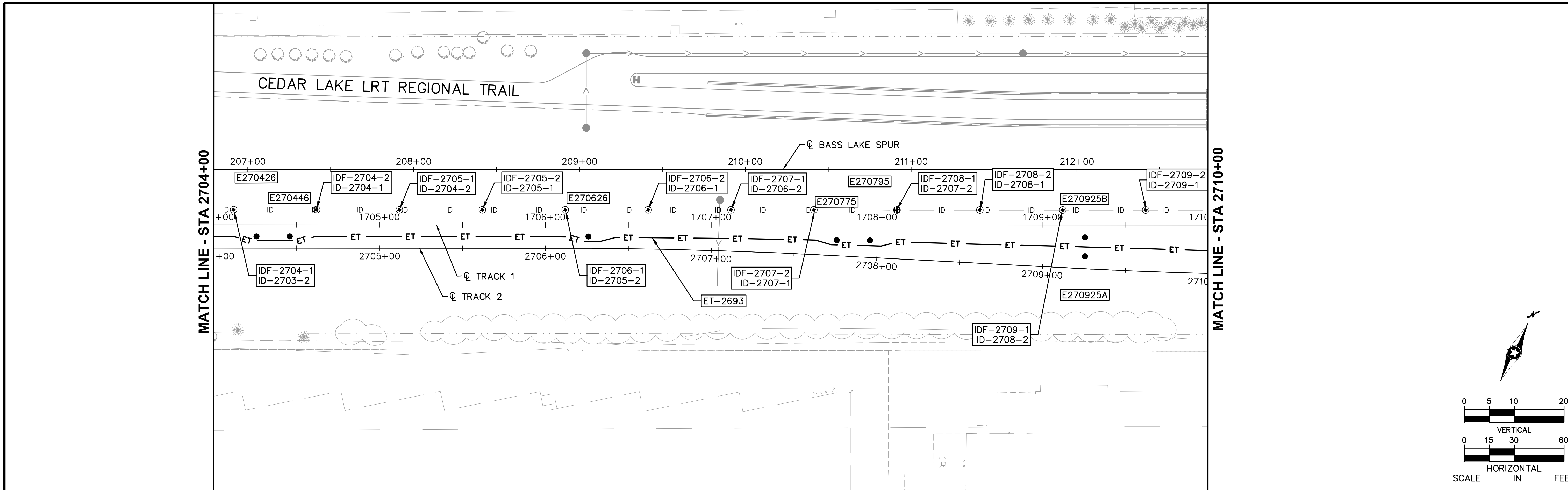
SOUTHWEST Green Line LRT Extension

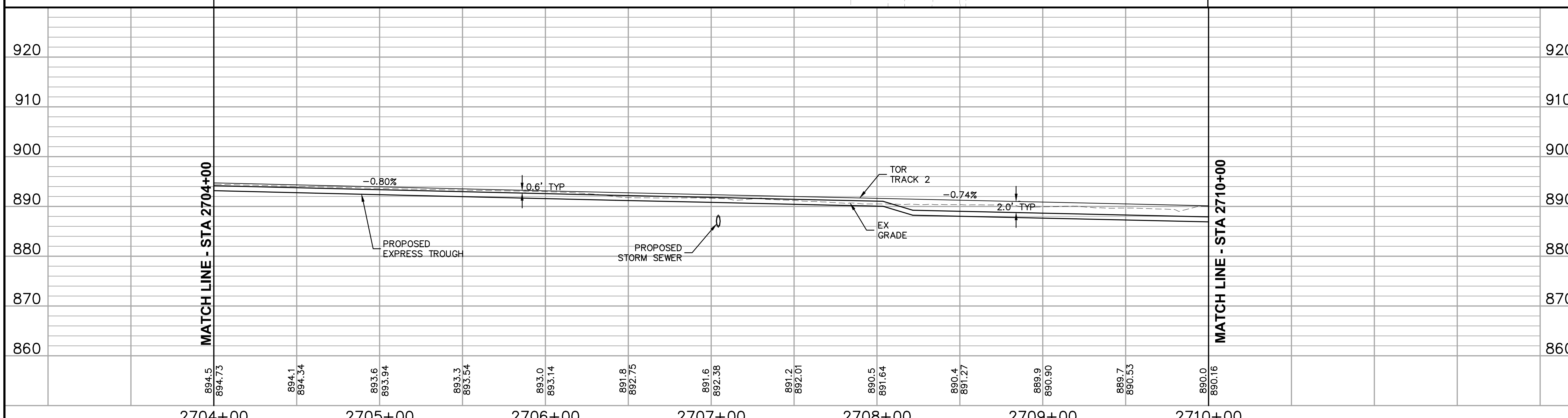
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2699+00 TO STA 2704+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-017

SHEET 192 OF 464





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2704+00 TO STA 2710+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-018

SHEET 193 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2704-1	2704+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2704-2	2704+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2705-1	2705+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2705-2	2705+62	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2706-1	2706+12	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2706-2	2706+62	23.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2707-1	2707+11	24.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2707-2	2707+61	26.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2708-1	2708+11	29.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2708-2	2708+60	32.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2709-1	2709+10	34.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2709-2	2709+61	37.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2693	SC-MH-2693	SC-MH-2710	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2703-2	IDF-2703-2	IDF-2704-1	1-2	STU-DTL-001	ID CONDUIT
ID-2704-1	IDF-2704-1	IDF-2704-2	1-2	STU-DTL-001	ID CONDUIT
ID-2704-2	IDF-2704-2	IDF-2705-1	1-2	STU-DTL-001	ID CONDUIT
ID-2705-1	IDF-2705-1	IDF-2705-2	1-2	STU-DTL-001	ID CONDUIT
ID-2705-2	IDF-2705-2	IDF-2706-1	1-2	STU-DTL-001	ID CONDUIT
ID-2706-1	IDF-2706-1	IDF-2706-2	1-2	STU-DTL-001	ID CONDUIT
ID-2706-2	IDF-2706-2	IDF-2707-1	1-2	STU-DTL-001	ID CONDUIT
ID-2707-1	IDF-2707-1	IDF-2707-2	1-2	STU-DTL-001	ID CONDUIT
ID-2707-2	IDF-2707-2	IDF-2708-1	1-2	STU-DTL-001	ID CONDUIT
ID-2708-1	IDF-2708-1	IDF-2708-2	1-2	STU-DTL-001	ID CONDUIT
ID-2708-2	IDF-2708-2	IDF-2709-1	1-2	STU-DTL-001	ID CONDUIT
ID-2709-1	IDF-2709-1	IDF-2709-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

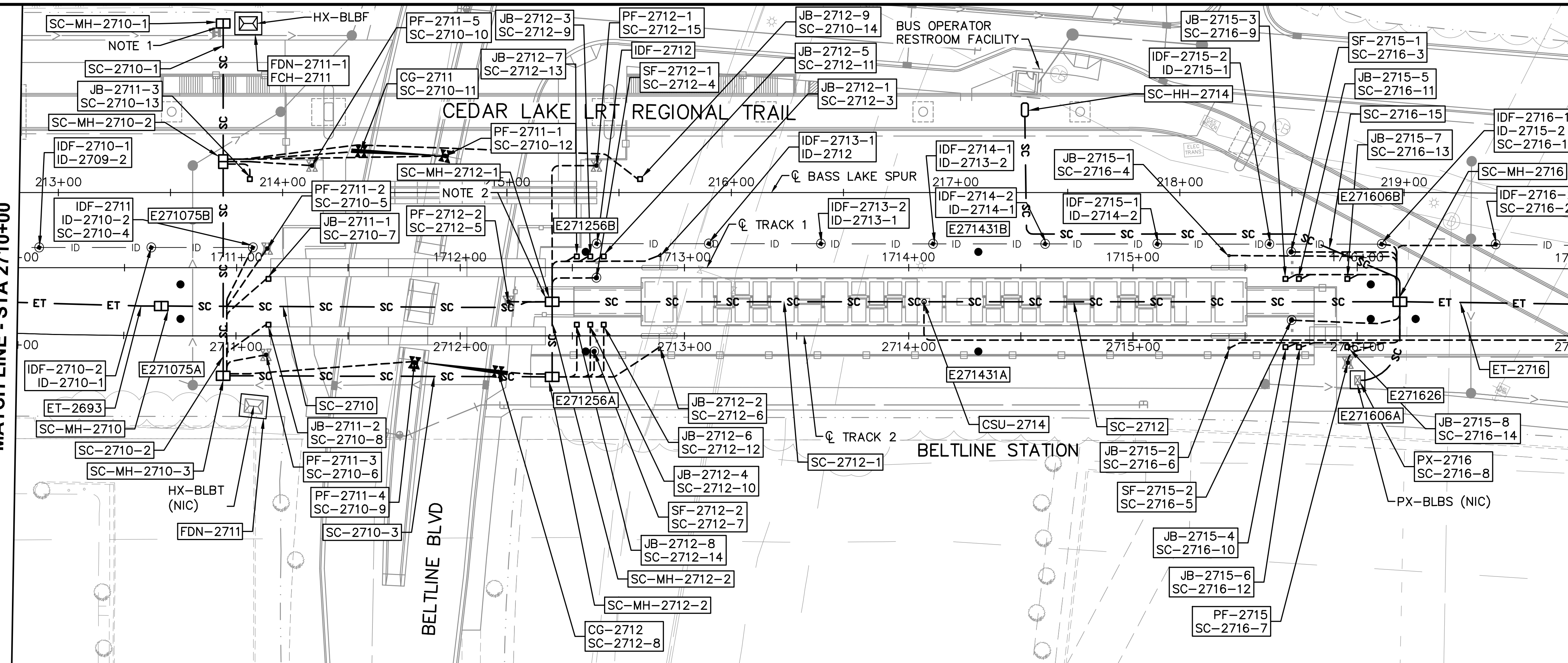
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2704+00 TO STA 2710+00

DISCIPLINE: SYSTEMS

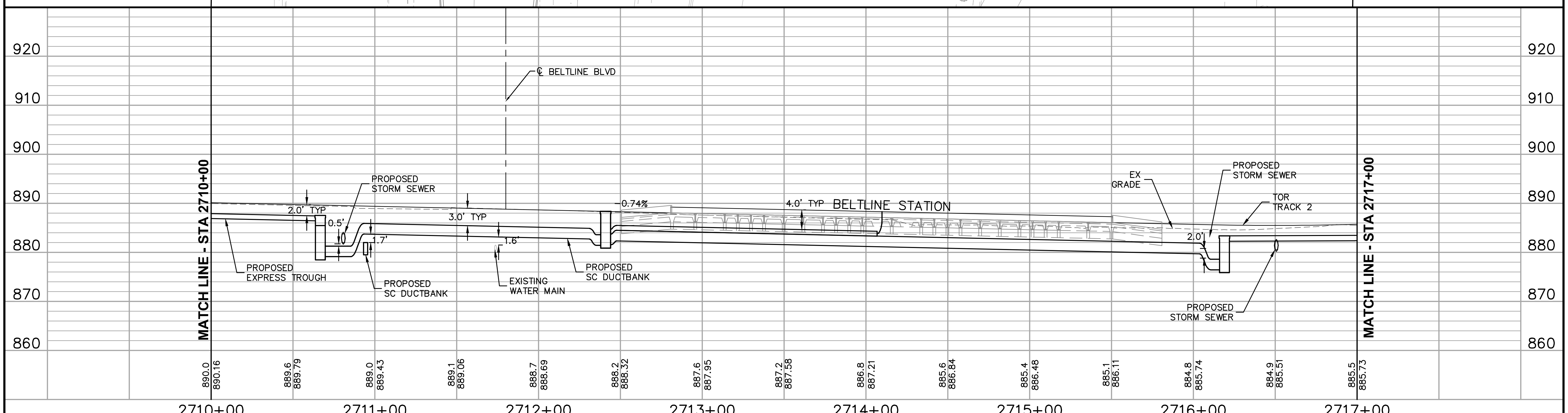
SHEET NAME: E2-SYS-SWE-SCH-018

SHEET 194 OF 464



NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B SHEET W2-BLT-ELE-PLN-101 AND W2-BLT-ELE-PLN-102 OR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINETS.

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2710+00 TO STA 2717+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-019

SHEET 195 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2710	2710+67	13.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2710-1	2710+94	139.3' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2710-2	2710+94	77.7' L	SWE-DTL-003	SC MANHOLE
SC-MH-2710-3	2710+94	17.8' R	SWE-DTL-003	SC MANHOLE
SC-MH-2712-1	2712+41	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2712-2	2712+41	18.3' R	SWE-DTL-003, NOTE 2	SC MANHOLE
SC-MH-2716	2716+19	15.2' L	SWE-DTL-003	SC MANHOLE
SC-HH-2714	2714+52	100.8' L	SWE-DTL-005	SC HANDHOLE
FDN-2711	2711+08	31.4' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2711-1	2711+16	137.9' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FCH-2711	2711+16	137.9' L	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE
PX-2716	2716+00	19.6' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2711-1	2711+93	80.2' L	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2711-2	2711+14	38.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2711-3	2711+13	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2711-4	2711+80	11.4' R	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2711-5	2711+34	75.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2712-1	2712+61	75.9' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2712-2	2712+21	15.2' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2715	2715+96	12.0' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
CG-2711	2711+56	82.4' L	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CG-2712	2712+17	16.1' R	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
SF-2712-1	2712+61	25.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2712-2	2712+60	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2715-1	2715+70	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2715-2	2715+71	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2711-1	2711+15	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2711-2	2711+15	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2711-3	2711+06	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2712-1	2712+89	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2712-2	2712+89	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2712-3	2712+58	35.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2712-4	2712+58	5.0' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2712-5	2712+64	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2712-6	2712+64	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2712-7	2712+52	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2712-8	2712+52	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2712-9	2712+80	69.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT LEADS JUNCTION BOX
JB-2715-1	2715+43	35.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2715-2	2715+43	5.4' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2715-3	2715+68	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2715-4	2715+68	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2715-5	2715+74	25.4' L	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2715-6	2715+74	5.0' R	1/SWE-DTL-SIG-024	TRACK CIRCUIT LEADS JUNCTION BOX
JB-2715-7	2715+96	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2715-8	2715+96	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2714	2714+07	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
IDF-2710-1	2710+11	38.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2710-2	2710+62	39.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2711	2711+08	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2712	2712+61	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2713-1	2713+11	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2713-2	2713+61	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2714-1	2714+11	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2714-2	2714+61	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2715-1	2715+11	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2715-2	2715+61	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2716-1	2716+11	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2716-2	2716+62	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2693	SC-MH-2693	SC-MH-2710	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2716	SC-MH-2716	SC-MH-2719	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2710	SC-MH-2710	SC-MH-2712-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2712	SC-MH-2712-1	SC-MH-2716	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2710-1	SC-MH-2710-1	SC-MH-2710-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2710-2	SC-MH-2710-2	SC-MH-2710-3	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2710-3	SC-MH-2710-3	SC-MH-2712-2	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2712-1	SC-MH-2712	CSU-2714	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2712-2	SC-MH-2712-2	SC-MH-2712-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2716-8	SC-MH-2716	PX-2716	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2716-15	SC-MH-2716	SC-HH-2714	2-4	2/STU-DTL-001	SC DUCTBANK
SC-2710-4	SC-MH-2710-3	IDF-2711	1-2	STU-DTL-001	SC CONDUIT
SC-2710-5	SC-MH-2710-3	PF-2711-2	1-4	STU-DTL-001	SC CONDUIT
SC-2710-6	SC-MH-2710-3	PF-2711-3	1-4	STU-DTL-001	SC CONDUIT
SC-2710-7	SC-MH-2710-3	JB-2711-1	1-2	STU-DTL-001	SC CONDUIT
SC-2710-8	SC-MH-2710-3	JB-2711-2	1-2	STU-DTL-001	SC CONDUIT
SC-2710-9	SC-MH-2710-3	PF-2711-4	2-4	STU-DTL-001	SC CONDUIT
SC-2710-10	SC-MH-2710-2	PF-2711-5	1-4	STU-DTL-001	SC CONDUIT
SC-2710-11	SC-MH-2710-2	CG-2711	2-4	STU-DTL-001	SC CONDUIT
SC-2710-12	SC-MH-2710-2	PF-2711-1	2-4	STU-DTL-001	SC CONDUIT
SC-2710-13	SC-MH-2710-2	JB-2711-3	1-2	STU-DTL-001	SC CONDUIT
SC-2710-14	SC-MH-2710-2	JB-2712-9	1-2	STU-DTL-001	SC CONDUIT
SC-2712-15	SC-MH-2712-1	PF-2712-1	1-4	STU-DTL-001	SC CONDUIT
SC-2712-3	SC-MH-2712-1	JB-2712-1	1-2	STU-DTL-001	SC CONDUIT
SC-2712-4	SC-MH-2712-1	SF-2712-1	1-2	STU-DTL-001	SC CONDUIT
SC-2712-5	SC-MH-2712-1	PF-2712-2	1-4	STU-DTL-001	SC CONDUIT
SC-2712-6	SC-MH-2712-2	JB-2712-2	1-2	STU-DTL-001	SC CONDUIT
SC-2712-7	SC-MH-2712-2	SF-2712-2	1-2	STU-DTL-001	SC CONDUIT
SC-2712-8	SC-MH-2712-2	CG-2712	2-4	STU-DTL-001	SC CONDUIT
SC-2712-9	SC-MH-2712-1	JB-2712-3	1-2	STU-DTL-001	SC CONDUIT
SC-2712-10	SC-MH-2712-2	JB-2712-4	1-2	STU-DTL-001	SC CONDUIT
SC-2712-11	SC-MH-2712-1	JB-2712-5	1-2	STU-DTL-001	SC CONDUIT
SC-2712-12	SC-MH-2712-2	JB-2712-6	1-2	STU-DTL-001	SC CONDUIT
SC-2712-13	SC-MH-2712-1	JB-2712-7	1-2	STU-DTL-001	SC CONDUIT
SC-2712-14	SC-MH-2712-2	JB-2712-8	1-2	STU-DTL-001	SC CONDUIT
SC-2716-1	SC-MH-2716	IDF-2716-1	1-2	STU-DTL-001	SC CONDUIT
SC-2716-2	SC-MH-2716	IDF-2716-2	1-2	STU-DTL-001	SC CONDUIT
SC-2716-3	SC-MH-2716	SF-2715-1	1-2	STU-DTL-001	SC CONDUIT
SC-2716-4	SC-MH-2716	JB-2715-1	1-2	STU-DTL-001	SC CONDUIT
SC-2716-5	SC-MH-2716	SF-2715-2	1-2	STU-DTL-001	SC CONDUIT
SC-2716-6	SC-MH-2716	JB-2715-2	1-2	STU-DTL-001	SC CONDUIT
SC-2716-7	SC-MH-2716	PF-2715	1-4	STU-DTL-001	SC CONDUIT
SC-2716-9	SC-MH-2716	JB-2715-3	1-2	STU-DTL-001	SC CONDUIT
SC-2716-10	SC-MH-2716	JB-2715-4	1-2	STU-DTL-001	SC CONDUIT
SC-2716-11	SC-MH-2716	JB-2715-5	1-2	STU-DTL-001	SC CONDUIT
SC-2716-12	SC-MH-2716	JB-2715-6	1-2	STU-DTL-001	SC CONDUIT
SC-2716-13	SC-MH-2716	JB-2715-7	1-2	STU-DTL-001	SC CONDUIT
SC-2716-14	SC-MH-2716	JB-2715-8	1-2	STU-DTL-001	SC CONDUIT
ID-2709-2	IDF-2709-2	IDF-2710-1	1-2	STU-DTL-001	ID CONDUIT
ID-2710-1	IDF-2710-1	IDF-2710-2	1-2	STU-DTL-001	ID CONDUIT
ID-2710-2	IDF-2710-2	IDF-2711	1-2	STU-DTL-001	ID CONDUIT
ID-2712	IDF-2712	IDF-2713-1	1-2	STU-DTL-001	ID CONDUIT
ID-2713-1	IDF-2713-1	IDF-2713-2	1-2	STU-DTL-001	ID CONDUIT
ID-2713-2	IDF-2713-2	IDF-2714-1	1-2	STU-DTL-001	ID CONDUIT
ID-2714-1	IDF-2714-1	IDF-2714-2	1-2	STU-DTL-001	ID CONDUIT
ID-2714-2	IDF-2714-2	IDF-2715-1	1-2	STU-DTL-001	ID CONDUIT
ID-2715-1	IDF-2715-1	IDF-2715-2	1-2	STU-DTL-001	ID CONDUIT
ID-2715-2	IDF-2715-2	IDF-2716-1	1-2	STU-DTL-001	ID CONDUIT
LV-2721	SC-HH-2721	CSU-2714	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.
2. SEE VOLUME 10B SHEET W2-BLT-ELE-PLN-101 AND W2-BLT-ELE-PLN-102 OR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

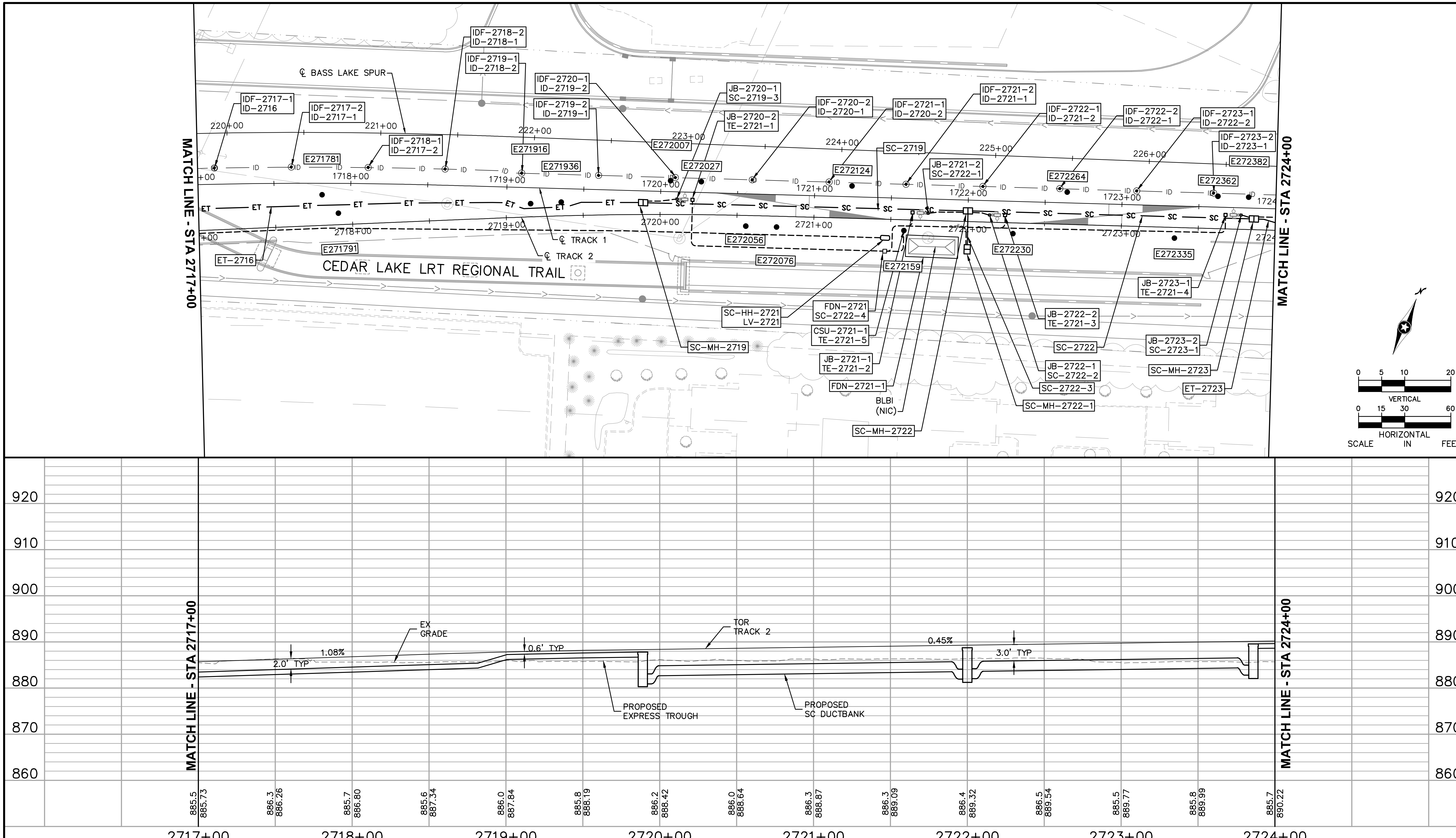
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2710+00 TO STA 2717+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-019



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL PLAN AND PROFILE
STA 2717+00 TO STA 2724+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-020

SHEET 197 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2719	2719+89	7.7' L	SWE-DTL-003	SC MANHOLE
SC-MH-2722-1	2722+00	18.1' R	SWE-DTL-003	SC MANHOLE
SC-MH-2722	2722+00	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2723	2723+86	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2721-1	2721+77	17.0' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2721	2721+47	20.8' R	SWE-DTL-SIG-016	SWITCH HEATER CASE FOUNDATION AND STUB UP
IDF-2717-1	2717+12	40.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2717-2	2717+62	38.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2718-1	2718+12	36.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2718-2	2718+61	33.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2719-1	2719+11	28.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2719-2	2719+60	25.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2720-1	2720+10	23.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2720-2	2720+59	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2721-1	2721+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2721-2	2721+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2722-1	2722+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2722-2	2722+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2723-1	2723+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2723-2	2723+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2720-1	2720+11	10.0' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2720-2	2720+21	9.6' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2721-1	2721+64	4.9' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2721-2	2721+74	4.7' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2722-1	2722+14	4.7' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2722-2	2722+24	4.9' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2723-1	2723+67	9.1' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2723-2	2723+78	9.3' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
CSU-2721-1	2721+59	7.0' R	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP
SC-HH-2721	2721+47	12.1' R	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2716	SC-MH-2716	SC-MH-2719	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
ET-2723	SC-MH-2723	SC-MH-2729	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2719	SC-MH-2719	SC-MH-2722	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2722	SC-MH-2722	SC-MH-2723	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2722-3	SC-MH-2722	SC-MH-2722-1	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2719-3	SC-MH-2719	JB-2720-1	1-3	STU-DTL-001	SC CONDUIT
SC-2722-1	SC-MH-2722	JB-2721-2	1-3	STU-DTL-001	SC CONDUIT
SC-2722-2	SC-MH-2722	JB-2722-1	1-3	STU-DTL-001	SC CONDUIT
SC-2722-4	SC-MH-2722-1	FDN-2721	1-3	STU-DTL-001	SC CONDUIT
SC-2723-1	SC-MH-2723	JB-2723-2	1-3	STU-DTL-001	SC CONDUIT
ID-2716	IDF-2716-2	IDF-2717-1	1-2	STU-DTL-001	ID CONDUIT
ID-2717-1	IDF-2717-1	IDF-2717-2	1-2	STU-DTL-001	ID CONDUIT
ID-2717-2	IDF-2717-2	IDF-2718-1	1-2	STU-DTL-001	ID CONDUIT
ID-2718-1	IDF-2718-1	IDF-2718-2	1-2	STU-DTL-001	ID CONDUIT
ID-2718-2	IDF-2718-2	IDF-2719-1	1-2	STU-DTL-001	ID CONDUIT
ID-2719-1	IDF-2719-1	IDF-2719-2	1-2	STU-DTL-001	ID CONDUIT
ID-2719-2	IDF-2719-2	IDF-2720-1	1-2	STU-DTL-001	ID CONDUIT
ID-2720-1	IDF-2720-1	IDF-2720-2	1-2	STU-DTL-001	ID CONDUIT
ID-2720-2	IDF-2720-2	IDF-2721-1	1-2	STU-DTL-001	ID CONDUIT
ID-2721-1	IDF-2721-1	IDF-2721-2	1-2	STU-DTL-001	ID CONDUIT
ID-2721-2	IDF-2721-2	IDF-2722-1	1-2	STU-DTL-001	ID CONDUIT
ID-2722-1	IDF-2722-1	IDF-2722-2	1-2	STU-DTL-001	ID CONDUIT
ID-2722-2	IDF-2722-2	IDF-2723-1	1-2	STU-DTL-001	ID CONDUIT
ID-2723-1	IDF-2723-1	IDF-2723-2	1-2	STU-DTL-001	ID CONDUIT
TE-2721-1	FDN-2721	JB-2720-2	1-2	STU-DTL-002	TE CONDUIT
TE-2721-2	FDN-2721	JB-2721-1	1-2	STU-DTL-002	TE CONDUIT
TE-2721-3	FDN-2721	JB-2722-2	1-2	STU-DTL-002	TE CONDUIT
TE-2721-4	FDN-2721	JB-2723-1	1-2	STU-DTL-002	TE CONDUIT
TE-2721-5	FDN-2721	CSU-2721-1	1-4	STU-DTL-002	TE CONDUIT
LV-2721	SC-HH-2721	CSU-2714	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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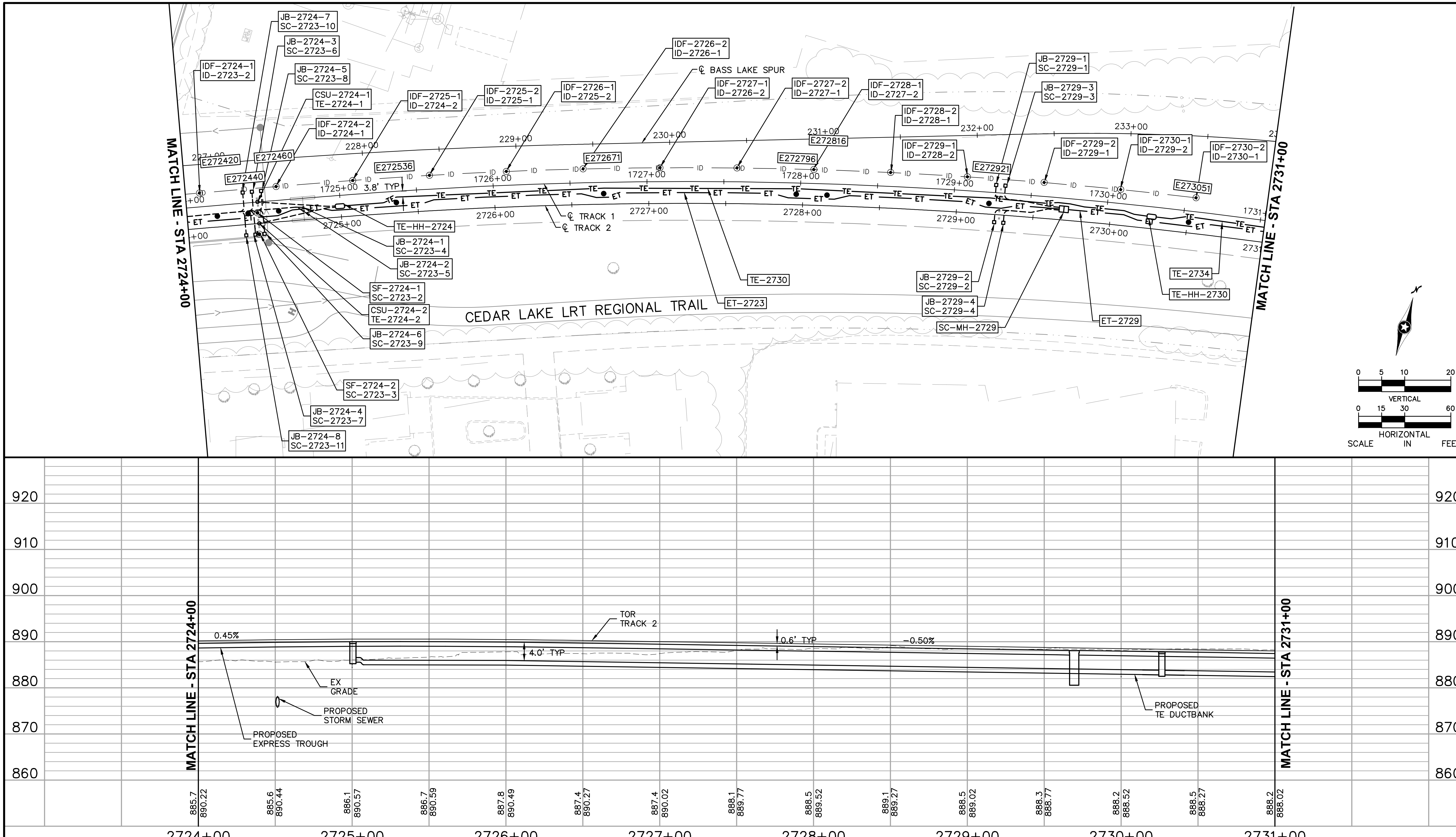
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2717+00 TO STA 2724+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-020



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2724+00 TO STA 2731+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-021

SHEET 199 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2729	2729+70	7.0' L	SWE-DTL-003	SC MANHOLE
SF-2724-1	2724+46	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2724-2	2724+46	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2724-1	2724+76	8.1' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2724-2	2724+76	5.7' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2724-3	2724+43	21.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2724-4	2724+43	7.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2724-5	2724+49	21.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2724-6	2724+49	7.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2724-7	2724+37	21.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2724-8	2724+37	7.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2729-1	2729+25	19.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2729-2	2729+25	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2729-3	2729+31	19.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2729-4	2729+31	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
TE-HH-2724	2725+00	7.0' L	SWE-DTL-004	TE HANDHOLE
TE-HH-2730	2730+27	7.9' L	SWE-DTL-004	TE HANDHOLE
CSU-2724-1	2724+46	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2724-2	2724+46	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
IDF-2724-1	2724+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2724-2	2724+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2725-1	2725+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2725-2	2725+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2726-1	2726+08	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2726-2	2726+58	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2727-1	2727+07	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2727-2	2727+57	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2728-1	2728+07	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2728-2	2728+56	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2729-1	2729+06	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2729-2	2729+55	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2730-1	2730+05	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2730-2	2730+54	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2723	SC-MH-2723	SC-MH-2729	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2729	SC-MH-2729	SC-MH-2734	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2723-2	SC-MH-2723	SF-2724-1	1-2	STU-DTL-001	SC CONDUIT
SC-2723-3	SC-MH-2723	SF-2724-2	1-2	STU-DTL-001	SC CONDUIT
SC-2723-4	SC-MH-2723	JB-2724-1	1-2	STU-DTL-001	SC CONDUIT
SC-2723-5	SC-MH-2723	JB-2724-2	1-2	STU-DTL-001	SC CONDUIT
SC-2723-6	SC-MH-2723	JB-2724-3	1-2	STU-DTL-001	SC CONDUIT
SC-2723-7	SC-MH-2723	JB-2724-4	1-2	STU-DTL-001	SC CONDUIT
SC-2723-8	SC-MH-2723	JB-2724-5	1-2	STU-DTL-001	SC CONDUIT
SC-2723-9	SC-MH-2723	JB-2724-6	1-2	STU-DTL-001	SC CONDUIT
SC-2723-10	SC-MH-2723	JB-2724-7	1-2	STU-DTL-001	SC CONDUIT
SC-2723-11	SC-MH-2723	JB-2724-8	1-2	STU-DTL-001	SC CONDUIT
SC-2729-1	SC-MH-2729	JB-2729-1	1-2	STU-DTL-001	SC CONDUIT
SC-2729-2	SC-MH-2729	JB-2729-2	1-2	STU-DTL-001	SC CONDUIT
SC-2729-3	SC-MH-2729	JB-2729-3	1-2	STU-DTL-001	SC CONDUIT
SC-2729-4	SC-MH-2729	JB-2729-4	1-2	STU-DTL-001	SC CONDUIT
TE-2730	TE-HH-2730	TE-HH-2724	4-5	4A/STU-DTL-002	TE DUCTBANK
TE-2734	TE-MH-2734	TE-HH-2730	4-5	4A/STU-DTL-002	TE DUCTBANK
TE-2724-1	TE-HH-2724	CSU-2724-1	1-5	STU-DTL-002	TE CONDUIT
TE-2724-2	TE-HH-2724	CSU-2724-2	1-5	STU-DTL-002	TE CONDUIT
ID-2723-2	IDF-2723-2	IDF-2724-1	1-2	STU-DTL-001	ID CONDUIT
ID-2724-1	IDF-2724-1	IDF-2724-2	1-2	STU-DTL-001	ID CONDUIT
ID-2724-2	IDF-2724-2	IDF-2725-1	1-2	STU-DTL-001	ID CONDUIT
ID-2725-1	IDF-2725-1	IDF-2725-2	1-2	STU-DTL-001	ID CONDUIT
ID-2725-2	IDF-2725-2	IDF-2726-1	1-2	STU-DTL-001	ID CONDUIT
ID-2726-1	IDF-2726-1	IDF-2726-2	1-2	STU-DTL-001	ID CONDUIT
ID-2726-2	IDF-2726-2	IDF-2727-1	1-2	STU-DTL-001	ID CONDUIT
ID-2727-1	IDF-2727-1	IDF-2727-2	1-2	STU-DTL-001	ID CONDUIT
ID-2727-2	IDF-2727-2	IDF-2728-1	1-2	STU-DTL-001	ID CONDUIT
ID-2728-1	IDF-2728-1	IDF-2728-2	1-2	STU-DTL-001	ID CONDUIT
ID-2728-2	IDF-2728-2	IDF-2729-1	1-2	STU-DTL-001	ID CONDUIT
ID-2729-1	IDF-2729-1	IDF-2729-2	1-2	STU-DTL-001	ID CONDUIT
ID-2729-2	IDF-2729-2	IDF-2730-1	1-2	STU-DTL-001	ID CONDUIT
ID-2730-1	IDF-2730-1	IDF-2730-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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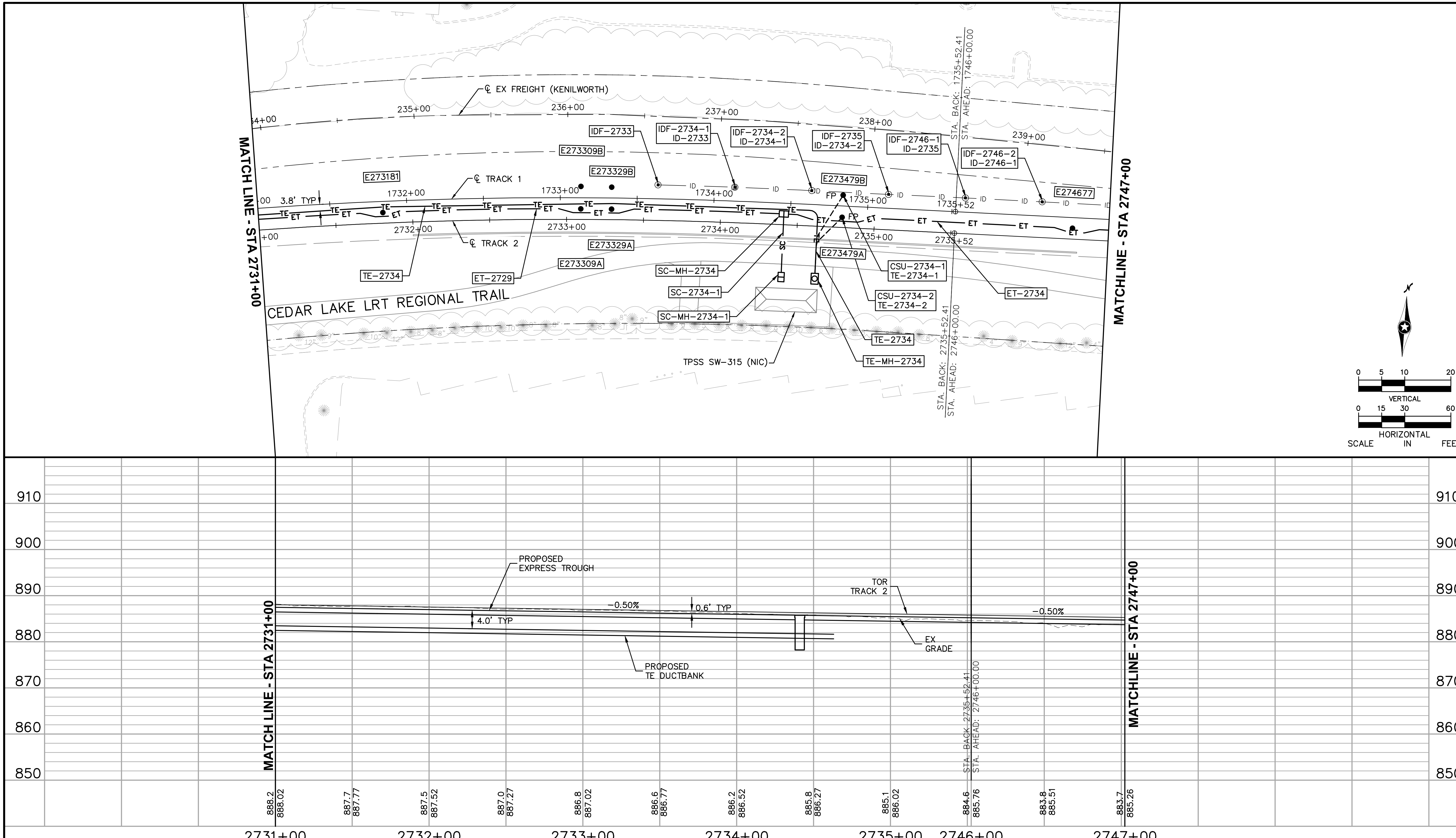
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12 SYSTEMWIDE ELECTRICAL SCHEDULE STA 2724+00 TO STA 2731+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-021



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2731+00 TO STA 2747+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-PRF-022

SHEET 201 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2734	2734+41	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2734-1	2734+41	34.0' R	SWE-DTL-003	SC MANHOLE
TE-MH-2734	2734+63	34.0' R	SWE-DTL-002	TE MANHOLE
CSU-2734-1	2734+79	21.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2734-2	2734+79	6.6' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
IDF-2733	2733+59	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2734-1	2734+09	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2734-2	2734+58	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2735	2735+08	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2746-1	2746+06	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2746-2	2746+56	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2729	SC-MH-2729	SC-MH-2734	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2734	SC-MH-2734	SC-MH-2763	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2734-1	SC-MH-2734	SC-MH-2734-1	2-4	STU-DTL-001	SC CONDUIT
TE-2734	TE-MH-2734	TE-HH-2730	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2734-1	TE-MH-2734	CSU-2734-1	2-4	STU-DTL-002	TE CONDUIT
TE-2734-2	TE-MH-2734	CSU-2734-2	2-4	STU-DTL-002	TE CONDUIT
ID-2733	IDF-2733	IDF-2734-1	1-2	STU-DTL-001	ID CONDUIT
ID-2734-1	IDF-2734-1	IDF-2734-2	1-2	STU-DTL-001	ID CONDUIT
ID-2734-2	IDF-2734-2	IDF-2735	1-2	STU-DTL-001	ID CONDUIT
ID-2735	IDF-2735	IDF-2746-1	1-2	STU-DTL-001	ID CONDUIT
ID-2746-1	IDF-2746-1	IDF-2746-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2731+00 TO STA 2747+00

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SCH-022

SHEET 202 OF 464

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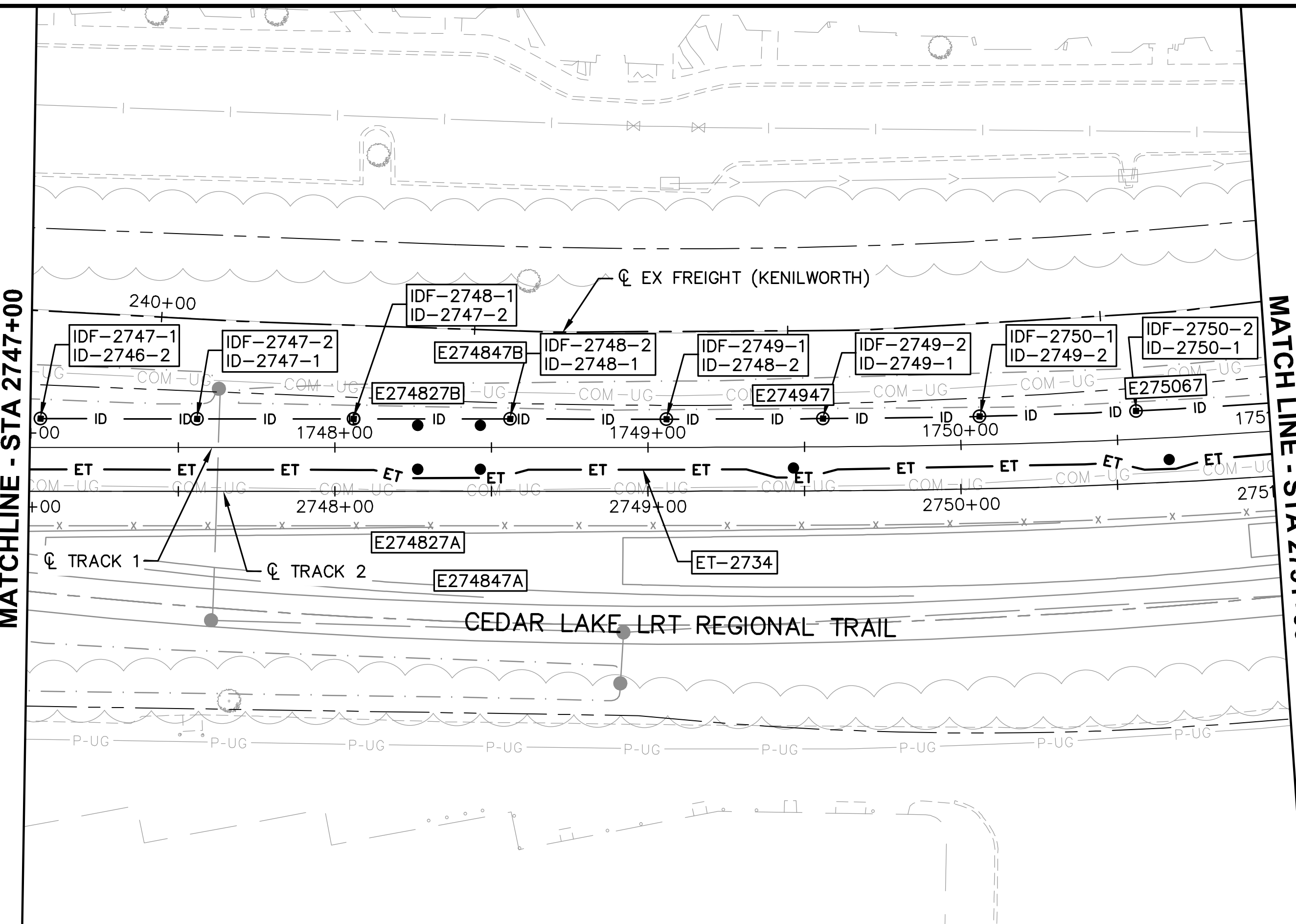

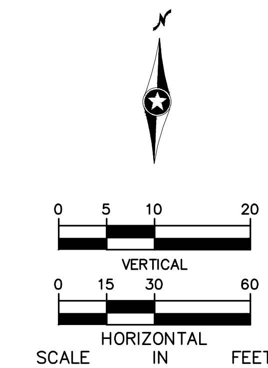

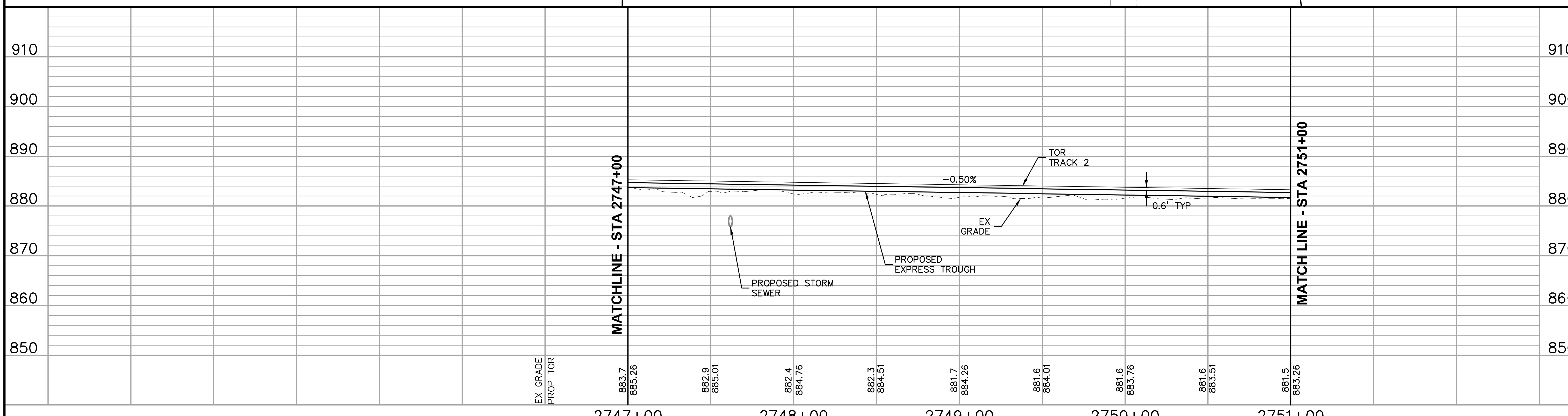

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2747+00 TO STA 2751+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-001

SHEET 203 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2747-1	2747+06	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2747-2	2747+56	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2748-1	2748+06	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2748-2	2748+56	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2749-1	2749+06	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2749-2	2749+56	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2750-1	2750+06	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2750-2	2750+57	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2734	SC-MH-2734	SC-MH-2763	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2746-2	IDF-2746-2	IDF-2747-1	1-2	STU-DTL-001	ID CONDUIT
ID-2747-1	IDF-2747-1	IDF-2747-2	1-2	STU-DTL-001	ID CONDUIT
ID-2747-2	IDF-2747-2	IDF-2748-1	1-2	STU-DTL-001	ID CONDUIT
ID-2748-1	IDF-2748-1	IDF-2748-2	1-2	STU-DTL-001	ID CONDUIT
ID-2748-2	IDF-2748-2	IDF-2749-1	1-2	STU-DTL-001	ID CONDUIT
ID-2749-1	IDF-2749-1	IDF-2749-2	1-2	STU-DTL-001	ID CONDUIT
ID-2749-2	IDF-2749-2	IDF-2750-1	1-2	STU-DTL-001	ID CONDUIT
ID-2750-1	IDF-2750-1	IDF-2750-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

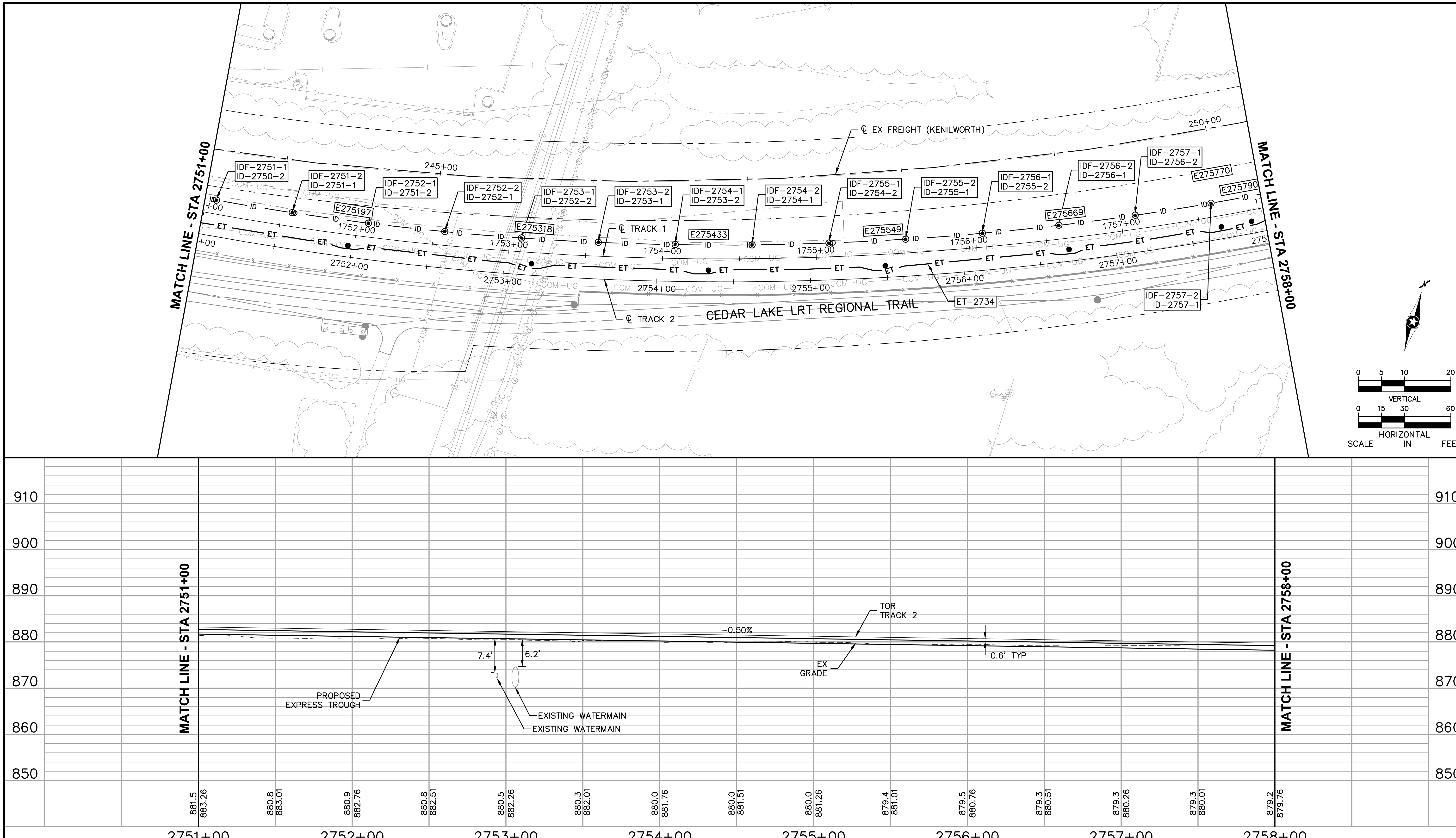
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2747+00 TO STA 2751+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-001

SHEET 204 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2751+00 TO STA 2758+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-002

SHEET 205 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2751-1	2751+08	23.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2751-2	2751+58	23.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2752-1	2752+09	23.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2752-2	2752+60	23.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2753-1	2753+10	23.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2753-2	2753+61	23.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2754-1	2754+11	23.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2754-2	2754+62	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2755-1	2755+13	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2755-2	2755+63	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2756-1	2756+14	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2756-2	2756+65	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2757-1	2757+15	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2757-2	2757+66	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2734	SC-MH-2734	SC-MH-2763	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2750-2	IDF-2750-2	IDF-2751-1	1-2	STU-DTL-001	ID CONDUIT
ID-2751-1	IDF-2751-1	IDF-2751-2	1-2	STU-DTL-001	ID CONDUIT
ID-2751-2	IDF-2751-2	IDF-2752-1	1-2	STU-DTL-001	ID CONDUIT
ID-2752-1	IDF-2752-1	IDF-2752-2	1-2	STU-DTL-001	ID CONDUIT
ID-2752-2	IDF-2752-2	IDF-2753-1	1-2	STU-DTL-001	ID CONDUIT
ID-2753-1	IDF-2753-1	IDF-2753-2	1-2	STU-DTL-001	ID CONDUIT
ID-2753-2	IDF-2753-2	IDF-2754-1	1-2	STU-DTL-001	ID CONDUIT
ID-2754-1	IDF-2754-1	IDF-2754-2	1-2	STU-DTL-001	ID CONDUIT
ID-2754-2	IDF-2754-2	IDF-2755-1	1-2	STU-DTL-001	ID CONDUIT
ID-2755-1	IDF-2755-1	IDF-2755-2	1-2	STU-DTL-001	ID CONDUIT
ID-2755-2	IDF-2755-2	IDF-2756-1	1-2	STU-DTL-001	ID CONDUIT
ID-2756-1	IDF-2756-1	IDF-2756-2	1-2	STU-DTL-001	ID CONDUIT
ID-2756-2	IDF-2756-2	IDF-2757-1	1-2	STU-DTL-001	ID CONDUIT
ID-2757-1	IDF-2757-1	IDF-2757-2	1-2	STU-DTL-001	ID CONDUIT

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2751+00 TO STA 2758+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-002

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2758+00 TO STA 2765+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-003

SHEET 207 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2763	2763+83	14.9' L	SWE-DTL-003	SC MANHOLE
SC-MH-2763-1	2763+83	31.0' R	SWE-DTL-003	SC MANHOLE
FDN-2763	2763+61	32.3' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
IDF-2758-1	2758+17	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2758-2	2758+67	24.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2759-1	2759+18	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2759-2	2759+69	24.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2760-1	2760+19	25.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2760-2	2760+70	26.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2761-1	2761+21	28.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2761-2	2761+71	30.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2762-1	2762+22	33.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2762-2	2762+73	36.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2763-1	2763+24	38.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2763-2	2763+75	39.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2764-1	2764+25	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2764-2	2764+75	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
SC-HH-2763	2763+92	30.5' R	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2734	SC-MH-2734	SC-MH-2763	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2763	SC-MH-2763	SC-MH-2765	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2763	SC-MH-2763	SC-MH-2763-1	16-4	16/STU-DTL-001	SC DUCTBANK
ID-2757-2	IDF-2757-2	IDF-2758-1	1-2	STU-DTL-001	ID CONDUIT
ID-2758-1	IDF-2758-1	IDF-2758-2	1-2	STU-DTL-001	ID CONDUIT
ID-2758-2	IDF-2758-2	IDF-2759-1	1-2	STU-DTL-001	ID CONDUIT
ID-2759-1	IDF-2759-1	IDF-2759-2	1-2	STU-DTL-001	ID CONDUIT
ID-2759-2	IDF-2759-2	IDF-2760-1	1-2	STU-DTL-001	ID CONDUIT
ID-2760-1	IDF-2760-1	IDF-2760-2	1-2	STU-DTL-001	ID CONDUIT
ID-2760-2	IDF-2760-2	IDF-2761-1	1-2	STU-DTL-001	ID CONDUIT
ID-2761-1	IDF-2761-1	IDF-2761-2	1-2	STU-DTL-001	ID CONDUIT
ID-2761-2	IDF-2761-2	IDF-2762-1	1-2	STU-DTL-001	ID CONDUIT
ID-2762-1	IDF-2762-1	IDF-2762-2	1-2	STU-DTL-001	ID CONDUIT
ID-2762-2	IDF-2762-2	IDF-2763-1	1-2	STU-DTL-001	ID CONDUIT
ID-2763-1	IDF-2763-1	IDF-2763-2	1-2	STU-DTL-001	ID CONDUIT
ID-2763-2	IDF-2763-2	IDF-2764-1	1-2	STU-DTL-001	ID CONDUIT
ID-2764-1	IDF-2764-1	IDF-2764-2	1-2	STU-DTL-001	ID CONDUIT
LV-2763	SC-HH-2763	CSU-2767	1-2	STU-DTL-001	LV CONDUIT

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90% SUBMISSION - 01/22/16

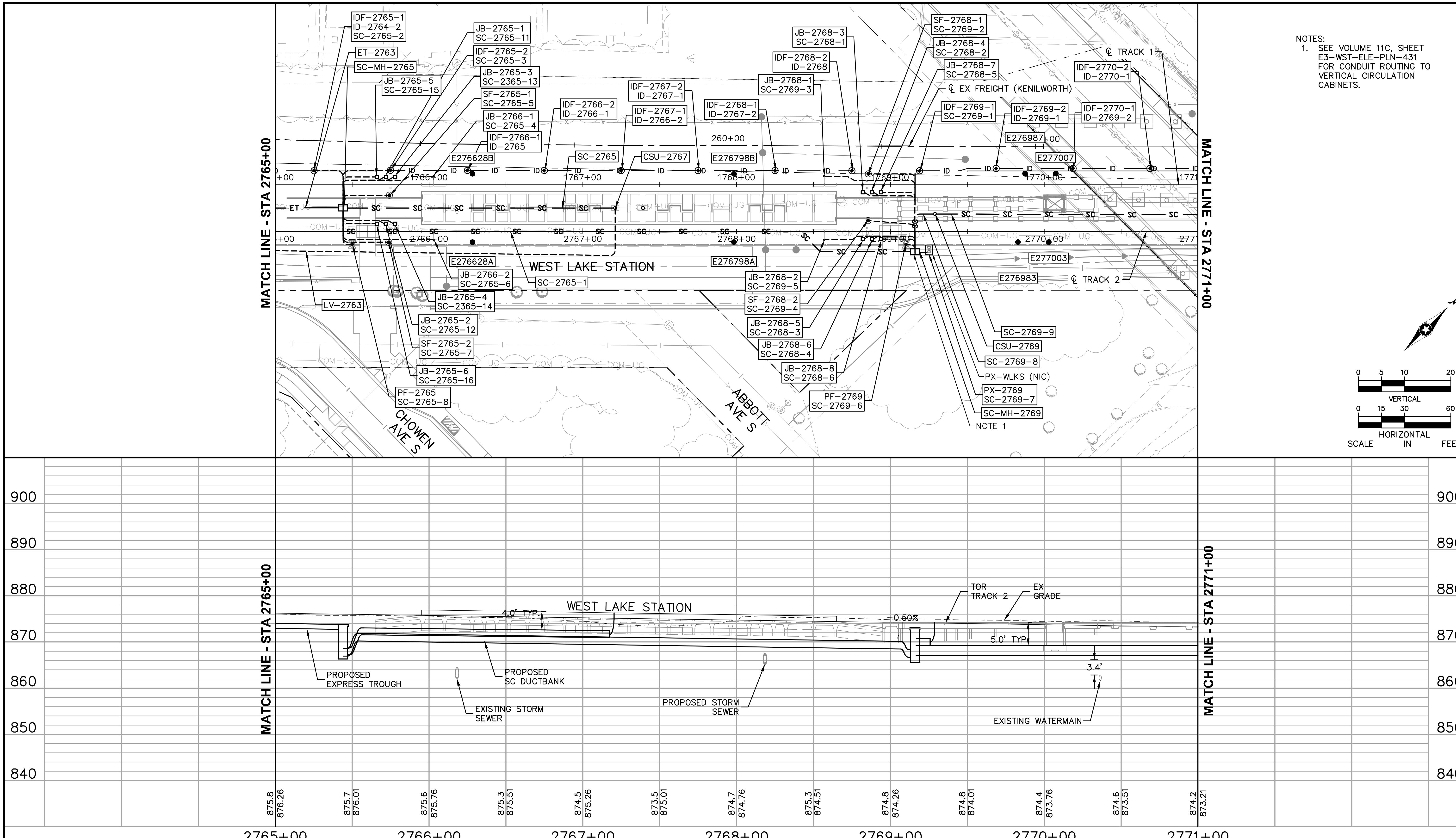
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2758+00 TO STA 2765+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-003



NOTES:
1. SEE VOLUME 11C, SHEET E3-WST-ELE-PLN-431 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2765+00 TO STA 2771+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-004

SHEET 209 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2765	2765+44	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2769	2769+16	13.2' R	SWE-DTL-003, NOTE 1	SC MANHOLE
PX-2769	2769+16	29.4' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2765	2765+50	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2769	2769+10	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2765-1	2765+74	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUDNATION AND STUB UP
SF-2765-2	2765+72	5.0' L	SWE-DTL-SIG-005	SIGNAL FOUDNATION AND STUB UP
SF-2768-1	2768+86	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUDNATION AND STUB UP
SF-2768-2	2768+85	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUDNATION AND STUB UP
JB-2765-1	2765+72	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2765-2	2765+72	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2765-3	2765+78	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2765-4	2765+78	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2765-5	2765+66	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2765-6	2765+66	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2766-1	2766+03	33.2' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2766-2	2766+03	3.1' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2768-1	2768+57	39.4' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2768-2	2768+57	3.1' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2768-3	2768+82	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2768-4	2768+88	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2768-5	2768+82	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2768-6	2768+88	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2768-7	2768+94	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2768-8	2768+94	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
CSU-2767	2767+21	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2769	2769+29	11.3' L	3/SWE-DTL-012	VERTICAL CIRCULATION CONDUIT STUB UP
IDF-2765-1	2765+25	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2765-2	2765+75	39.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2766-1	2766+25	39.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2766-2	2766+75	39.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2767-1	2767+25	39.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2767-2	2767+75	39.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2768-1	2768+25	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2768-2	2768+75	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2769-1	2769+19	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2769-2	2769+69	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2770-1	2770+19	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2770-2	2770+69	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2763	SC-MH-2763	SC-MH-2765	TYPE III	3/SWE-DTL-010	EXPRESS TROUGH
SC-2765	SC-MH-2765	CSU-2767	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2765-1	SC-MH-2765	SC-MH-2769	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2769-8	SC-MH-2769	CSU-2769	3-4	3/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2769-9	SC-MH-2769	SC-MH-2772-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2769-7	SC-MH-2769	PX-2769	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2765-2	SC-MH-2765	IDF-2765-1	1-2	STU-DTL-001	SC CONDUIT
SC-2765-3	SC-MH-2765	IDF-2765-2	1-2	STU-DTL-001	SC CONDUIT
SC-2765-4	SC-MH-2765	JB-2766-1	1-2	STU-DTL-001	SC CONDUIT
SC-2765-5	SC-MH-2765	SF-2765-1	1-2	STU-DTL-001	SC CONDUIT
SC-2765-6	SC-MH-2765	JB-2766-2	1-2	STU-DTL-001	SC CONDUIT
SC-2765-7	SC-MH-2765	SF-2765-2	1-2	STU-DTL-001	SC CONDUIT
SC-2765-8	SC-MH-2765	PF-2765	1-4	STU-DTL-001	SC CONDUIT
SC-2765-11	SC-MH-2765	JB-2765-1	1-2	STU-DTL-001	SC CONDUIT
SC-2765-12	SC-MH-2765	JB-2765-2	1-2	STU-DTL-001	SC CONDUIT
SC-2765-13	SC-MH-2765	JB-2765-3	1-2	STU-DTL-001	SC CONDUIT
SC-2765-14	SC-MH-2765	JB-2765-4	1-2	STU-DTL-001	SC CONDUIT
SC-2765-15	SC-MH-2765	JB-2765-5	1-2	STU-DTL-001	SC CONDUIT
SC-2765-16	SC-MH-2765	JB-2765-6	1-2	STU-DTL-001	SC CONDUIT
SC-2768-1	SC-MH-2769	JB-2768-3	1-2	STU-DTL-001	SC CONDUIT
SC-2768-2	SC-MH-2769	JB-2768-4	1-2	STU-DTL-001	SC CONDUIT
SC-2768-3	SC-MH-2769	JB-2768-5	1-2	STU-DTL-001	SC CONDUIT
SC-2768-4	SC-MH-2769	JB-2768-6	1-2	STU-DTL-001	SC CONDUIT
SC-2768-5	SC-MH-2769	JB-2768-7	1-2	STU-DTL-001	SC CONDUIT
SC-2768-6	SC-MH-2769	JB-2768-8	1-2	STU-DTL-001	SC CONDUIT
SC-2769-1	SC-MH-2769	IDF-2769-1	1-2	STU-DTL-001	SC CONDUIT
SC-2769-2	SC-MH-2769	SF-2768-1	1-2	STU-DTL-001	SC CONDUIT
SC-2769-3	SC-MH-2769	JB-2768-1	1-2	STU-DTL-001	SC CONDUIT
SC-2769-4	SC-MH-2769	SF-2768-2	1-2	STU-DTL-001	SC CONDUIT
SC-2769-5	SC-MH-2769	JB-2768-2	1-2	STU-DTL-001	SC CONDUIT
SC-2769-6	SC-MH-2769	PF-2769	1-4	STU-DTL-001	SC CONDUIT
ID-2764-2	IDF-2764-2	IDF-2765-1	1-2	STU-DTL-001	ID CONDUIT
ID-2765	IDF-2765-2	IDF-2766-1	1-2	STU-DTL-001	ID CONDUIT
ID-2766-1	IDF-2766-1	IDF-2766-2	1-2	STU-DTL-001	ID CONDUIT
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ID-2767-2	IDF-2767-2	IDF-2768-1	1-2	STU-DTL-001	ID CONDUIT
ID-2768	IDF-2768-1	IDF-2768-2	1-2	STU-DTL-001	ID CONDUIT
ID-2769-1	IDF-2769-1	IDF-2769-2	1-2	STU-DTL-001	ID CONDUIT
ID-2769-2	IDF-2769-2	IDF-2770-1	1-2	STU-DTL-001	ID CONDUIT
ID-2770-1	IDF-2770-1	IDF-2770-2	1-2	STU-DTL-001	ID CONDUIT
LV-2763	SC-HH-2763	CSU-2767	1-2	STU-DTL-001	LV CONDUIT

NOTES:

1. SEE VOLUME 11C, SHEET E3-WST-ELE-PLN-431 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

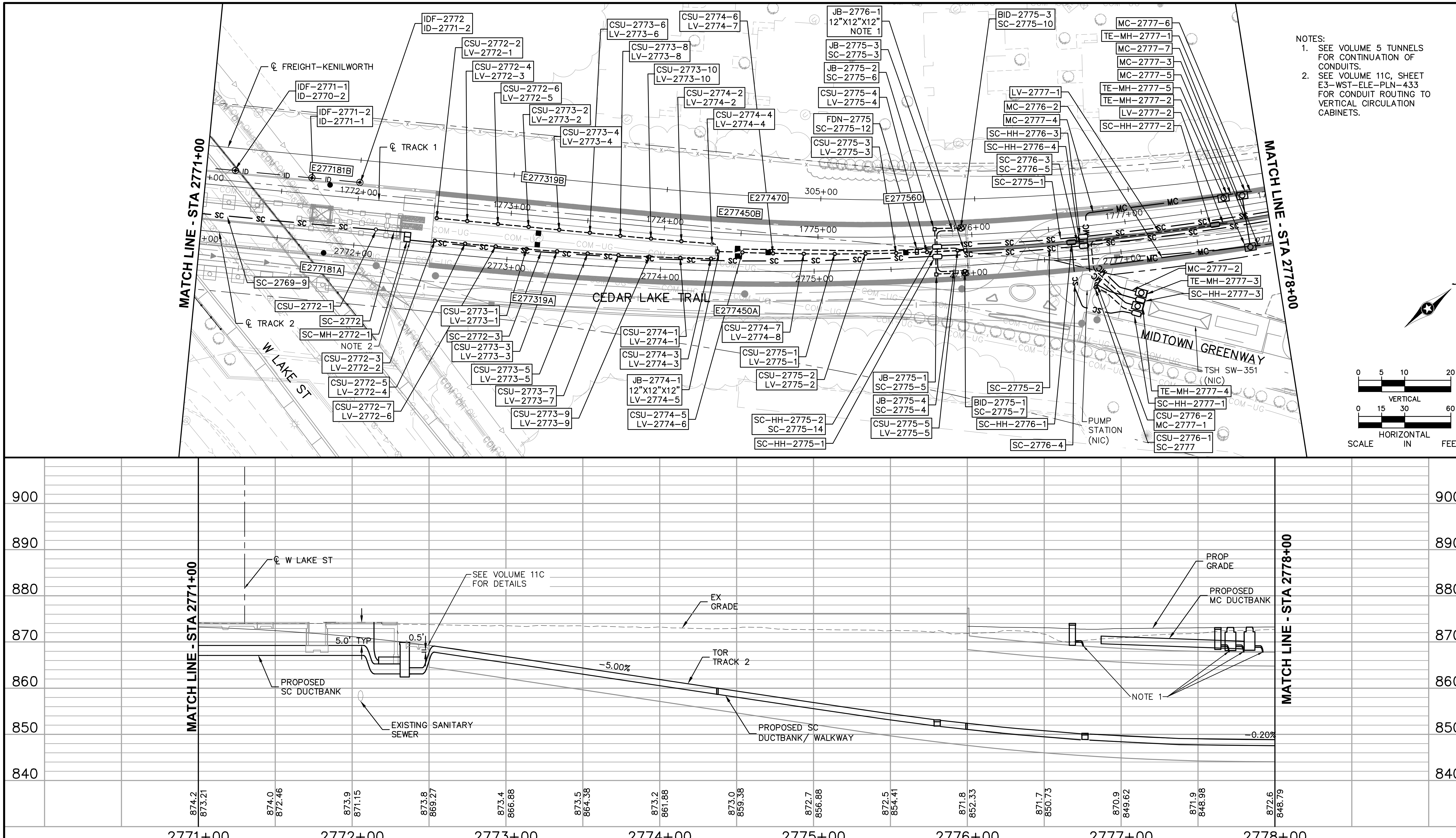
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2765+00 TO STA 2771+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-004



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2771+00 TO STA 2778+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-005

SHEET 211 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2772-1	2772+34	8.6' L	NOTE 2	SC MANHOLE
FDN-2775	2775+84	10.0' L	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
JB-2774-1	2774+37	12.6' L		LIGHTING JUNCTION BOX
JB-2775-1	2775+79	4.6' R	1/SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2775-2	2775+80	24.8' L	1/SWE-DTL-SIG-025	INTRUSION DETECTION JUNCTION BOX
JB-2776-1	2776+01	10.6' L		LIGHTING JUNCTION BOX
JB-2775-3	2775+91	23.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2775-4	2775+91	2.8' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
SC-HH-2775-1	2775+80	7.0' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2775-2	2775+79	7.2' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2776-1	2776+68	9.6' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2776-3	2776+76	12.4' L	2/SWE-TYP-007, NOTE 3	SC HANDHOLE
SC-HH-2776-4	2776+76	6.5' L	2/SWE-TYP-007, NOTE 3	SC HANDHOLE
SC-HH-2777	2777+59	58.7' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2777-1	2777+05	40.9' R	SWE-DTL-005	SC HANDHOLE
SC-HH-2777-2	2777+63	9.7' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2777-3	2777+09	32.5' R	SWE-DTL-005	SC HANDHOLE
CSU-2772-1	2772+13	11.4' L	3/SWE-DTL-012	VERTICAL CIRCULATION CONDUIT STUB UP
CSU-2772-2	2772+52	22.5' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2772-3	2772+52	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2772-4	2772+72	22.5' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2772-5	2772+72	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2772-6	2772+92	22.4' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2772-7	2772+92	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-1	2773+12	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-2	2773+12	22.2' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-3	2773+32	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-4	2773+32	21.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-5	2773+52	7.8' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-6	2773+53	21.2' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-7	2773+72	7.7' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-8	2773+73	20.5' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-9	2773+92	7.8' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2773-10	2773+93	19.5' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-1	2774+13	7.6' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-2	2774+13	18.6' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-3	2774+33	7.8' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-4	2774+33	17.6' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-5	2774+53	12.2' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-6	2774+73	11.8' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2774-7	2774+93	11.4' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2775-1	2775+13	11.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2775-2	2775+33	10.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2775-3	2775+54	10.4' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2775-4	2775+74	10.3' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2775-5	2775+94	10.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2776-1	2776+90	22.3' R		PUMP STATION CONDUIT STUB UP
CSU-2776-2	2776+90	20.3' R		PUMP STATION CONDUIT STUB UP
IDF-2771-1	2771+19	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2771-2	2771+69	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2772	2772+00	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
TE-MH-2777-1	2777+83	25.7' L	SWE-DTL-002	TE MANHOLE
TE-MH-2777-2	2777+83	8.3' R	SWE-DTL-002	TE MANHOLE
TE-MH-2777-3	2777+10	28.0' R	SWE-DTL-002	TE MANHOLE
TE-MH-2777-4	2777+06	36.3' R	SWE-DTL-002	TE MANHOLE
TE-MH-2777-5	2777+71	26.0' L	SWE-DTL-002	TE MANHOLE
BID-2775-1	2775+98	4.6' R	SWE-DTL-COM-003	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
BID-2775-3	2775+98	24.7' L	SWE-DTL-COM-003	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2769-9	SC-MH-2769	CSU-2772-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2772-3	SC-MH-2772-1	SC-HH-2775-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2775-1	SC-HH-2775-2	SC-HH-2781-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2775-2	SC-HH-2775-1	SC-HH-2781-2	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2772	CSU-2772-1	SC-MH-2772-1	3-4	3/STU-DTL-001	SC DUCTBANK
SC-2776-4	SC-HH-2776-1	SC-HH-2777	3-4	3/STU-DTL-001	SC DUCTBANK
MC-2777-2	TE-MH-2777-3	TE-MH-2777-2	8-4	8/STU-DTL-002	MC DUCTBANK
MC-2777-3	TE-MH-2777-2	TE-MH-2777-1	4-4	4/STU-DTL-002	MC DUCTBANK
MC-2777-4	TE-MH-2777-4	TE-MH-2777-5	2-4	2/STU-DTL-002	MC DUCTBANK
MC-2777-5	TE-MH-2777-5	-	2-4	2/STU-DTL-002, NOTE 1	MC DUCTBANK
MC-2777-1	TE-HH-2777-1	CSU-2776-2	2-4	STU-DTL-002	MC CONDUIT
MC-2777-6	TE-MH-2777-1	-	8-2	STU-DTL-005, NOTE 1	MC CONDUIT
MC-2777-7	TE-MH-2777-2	-	8-2	STU-DTL-005, NOTE 1	MC CONDUIT
ID-2770-2	IDF-2770-2	IDF-2771-1	1-2	STU-DTL-001	ID CONDUIT
ID-2771-1	IDF-2771-1	IDF-2771-2	1-2	STU-DTL-001	ID CONDUIT
ID-2771-2	IDF-2771-2	IDF2772	1-2	STU-DTL-001	ID CONDUIT
LV-2772-1	CSU-2772-2	CSU-2772-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2772-2	CSU-2772-3	CSU-2772-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2772-3	CSU-2772-4	CSU-2772-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2772-4	CSU-2772-5	CSU-2772-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2772-5	CSU-2772-6	CSU-2773-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2772-6	CSU-2772-7	CSU-2773-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-1	CSU-2773-1	CSU-2773-3	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-2	CSU-2773-2	CSU-2773-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-3	CSU-2773-3	CSU-2773-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-4	CSU-2773-4	CSU-2773-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-5	CSU-2773-5	CSU-2773-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-6	CSU-2773-6	CSU-2773-8	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-7	CSU-2773-7	CSU-2773-9	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-8	CSU-2773-8	CSU-2773-10	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-9	CSU-2773-9	CSU-2774-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2773-10	CSU-2773-10	CSU-2774-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-1	CSU-2774-1	CSU-2774-3	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-2	CSU-2774-2	CSU-2774-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-3	CSU-2774-3	JB-2774-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-4	CSU-2774-4	JB-2774-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-5	JB-2774-1	JB-2776-1	1-1	STU-DTL-001	LV CONDUIT
LV-2774-6	CSU-2774-5	CSU-2774-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-7	CSU-2774-6	CSU-2774-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2774-8	CSU-2774-7	CSU-2775-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2775-1	CSU-2775-1	CSU-2775-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2775-2	CSU-2775-2	CSU-2775-3	1-3/4	STU-DTL-001	LV CONDUIT
LV-2775-3	CSU-2775-3	CSU-2775-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2775-4	CSU-2775-4	CSU-2775-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2775-5	CSU-2775-5	JB-2776-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2777-1	SC-HH-2777-3	SC-HH-2777-2	2-4	STU-DTL-001	LV CONDUIT
LV-2777-2	SC-HH-2777-2	-	6-2	STU-DTL-001, NOTE 1	LV CONDUIT
SC-2775-3	SC-HH-2775-2	JB-2775-3	1-2	STU-DTL-001	SC CONDUIT
SC-2775-4	SC-HH-2775-1	JB-2775-4	1-2	STU-DTL-001	SC CONDUIT
SC-2775-5	SC-HH-2775-1	JB-2775-1	1-4	STU-DTL-001	SC CONDUIT
SC-2775-6	SC-HH-2775-2	JB-2775-2	1-4	STU-DTL-001	SC CONDUIT
SC-2775-7	JB-2775-1	BID-2775-1	1-2	STU-DTL-001	SC CONDUIT
SC-2775-10	JB-2775-2	BID-2775-3	1-2	STU-DTL-001	SC CONDUIT
SC-2775-12	SC-HH-2775-2	FDN-2775	4-2	STU-DTL-001	SC-CONDUIT
SC-2775-14	SC-HH-27775-1	SC-HH-2775-2	4-4	STU-DTL-001	SC CONDUIT
SC-2776-3	SC-HH-2776-1	-	3-2,1-4	STU-DTL-001, NOTE 1	SC CONDUIT
SC-2776-5	SC-HH-2776-1	-	1-4	STU-DTL-001, NOTE 1	SC CONDUIT
SC-2777	SC-HH-2777	CSU-2776-1	2-4	STU-DTL-001	SC-CONDUIT
SC-2777-1	TE-HH-2777-1	SC-HH-2777	2-4	STU-DTL-001	SC CONDUIT

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS. 2. SEE VOLUME 11C, SHEET E3-WST-ELE-PLN-433 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.
3. SEE VOLUME 5 TUNNELS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

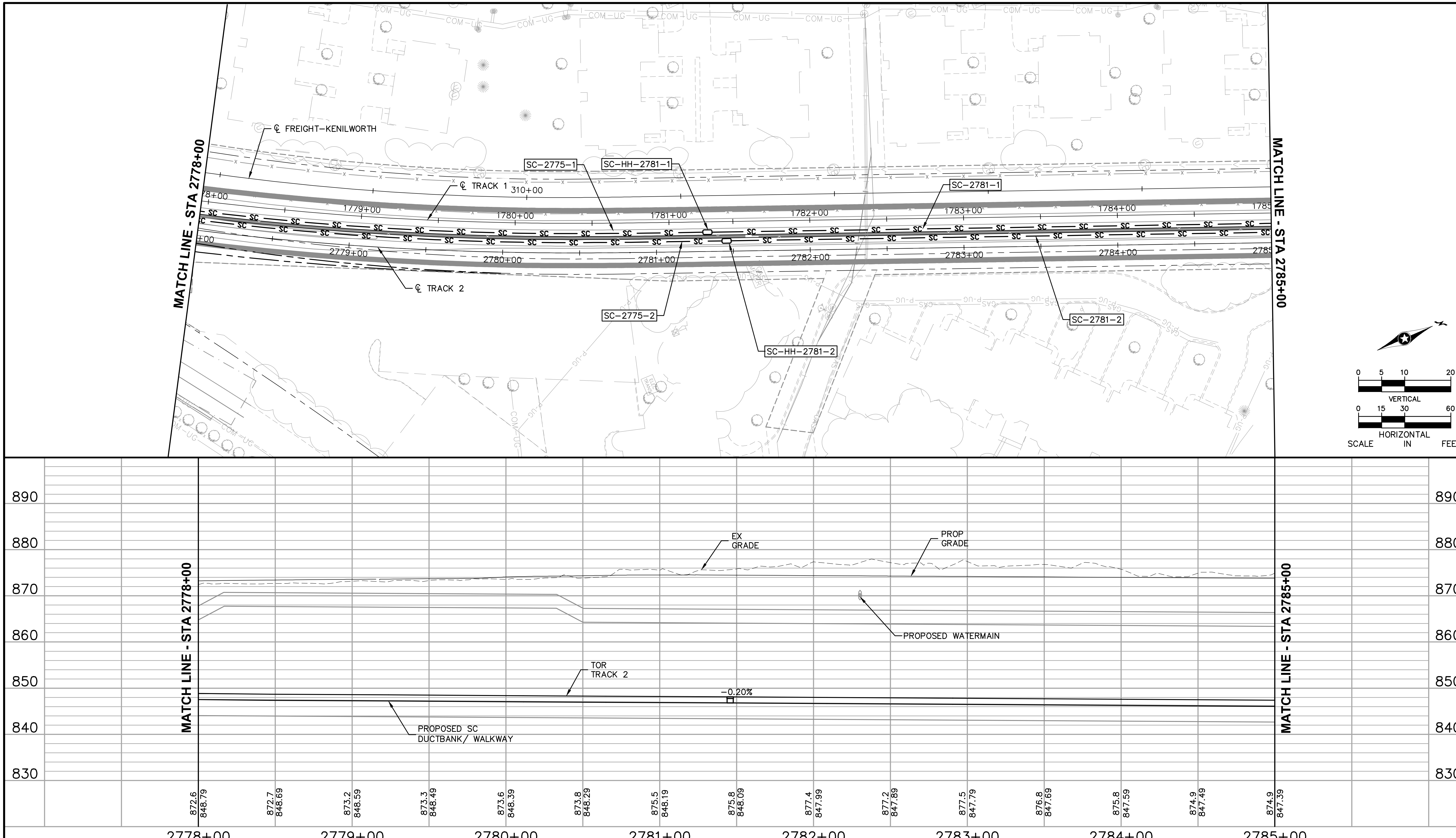
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2771+00 TO STA 2778+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-005



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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2778+00 TO STA 2785+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-006

SHEET 213 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2781-1	2781+33	12.5' L	2/SWE-TYP-007, NOTE 1	SC HANDHOLE
SC-HH-2781-2	2781+46	6.7' L	2/SWE-TYP-007, NOTE 1	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2775-1	SC-HH-2775-2	SC-HH-2781-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2775-2	SC-HH-2775-1	SC-HH-2781-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2781-1	SC-HH-2781-1	SC-HH-2787-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2781-2	SC-HH-2781-2	SC-HH-2787-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK

NOTES:
1. SEE VOLUME 5 TUNNELS.

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METROPOLITAN COUNCIL

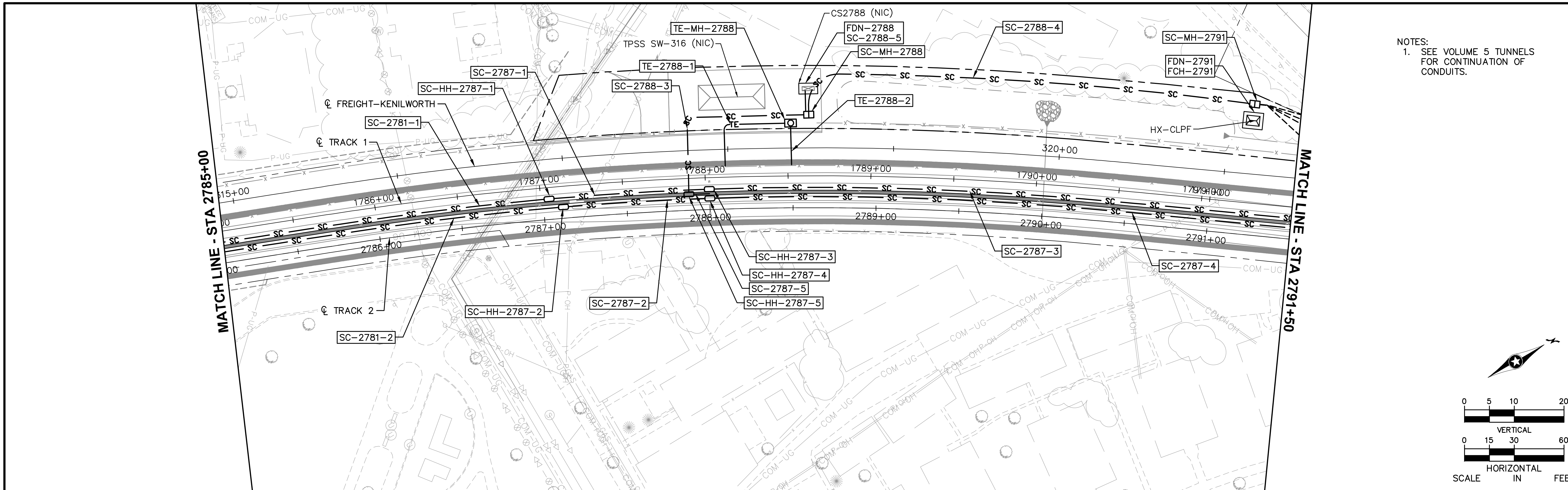
SOUTHWEST Green Line LRT Extension

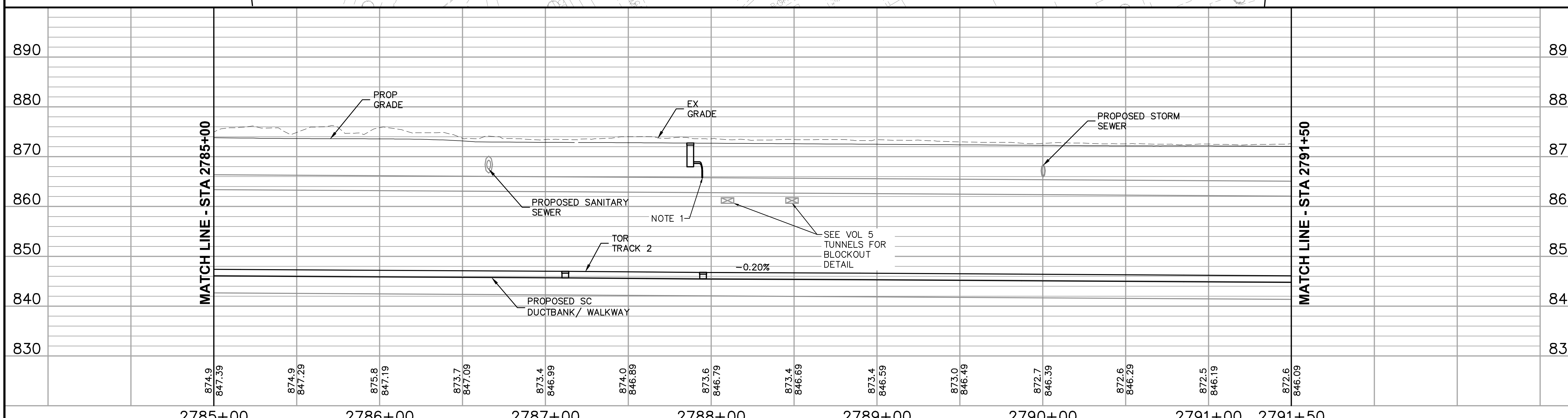
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2778+00 TO STA 2785+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-006

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2785+00 TO STA 2791+50

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-007

SHEET 215 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2788	2788+60	59.7' L	SWE-DTL-003	SC MANHOLE
SC-MH-2791	2791+22	79.0' L	SWE-DTL-003	SC MANHOLE
SC-HH-2787-1	2787+04	12.3' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2787-2	2787+12	6.7' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2787-3	2788+00	12.3' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2787-4	2788+00	6.7' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2787-5	2787+87	9.7' L	SWE-DTL-005	SC HANDHOLE
FDN-2788	2788+59	71.9' L	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATION AND STUB UP
FDN-2791	2791+21	69.0' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
TE-MH-2788	2788+49	59.6' L	SWE-DTL-002	TE MANHOLE
FCH-2791	2791+21	69.0' L	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2781-1	SC-HH-2781-1	SC-HH-2787-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2781-2	SC-HH-2781-2	SC-HH-2787-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2787-1	SC-HH-2787-1	SC-HH-2787-3	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2787-2	SC-HH-2787-2	SC-HH-2787-4	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2787-3	SC-HH-2787-3	SC-HH-2792-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2787-4	SC-HH-2787-4	SC-HH-2792-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
				2/SWE-TYP-007, NOTE 1	
SC-2788-3	SC-MH-2788	SC-HH-2787-5	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2788-4	SC-MH-2788	SC-MH-2791	6-4	6/STU-DTL-001	SC DUCTBANK
TE-2788-1	TE-MH-2788	-	2-5	2A/STU-DTL-002, NOTE 1	TE DUCTBANK
TE-2788-2	TE-MH-2788	-	4-4	4/STU-DTL-002, NOTE 1	TE DUCTBANK
SC-2787-5	SC-HH-2787-5	-	4-2	STU-DTL-001, NOTE 1	SC CONDUIT
SC-2788-5	SC-MH-2788	FDN-2788	6-4	STU-DTL-001	SC-CONDUIT

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.
2. SEE VOLUME 5 TUNNELS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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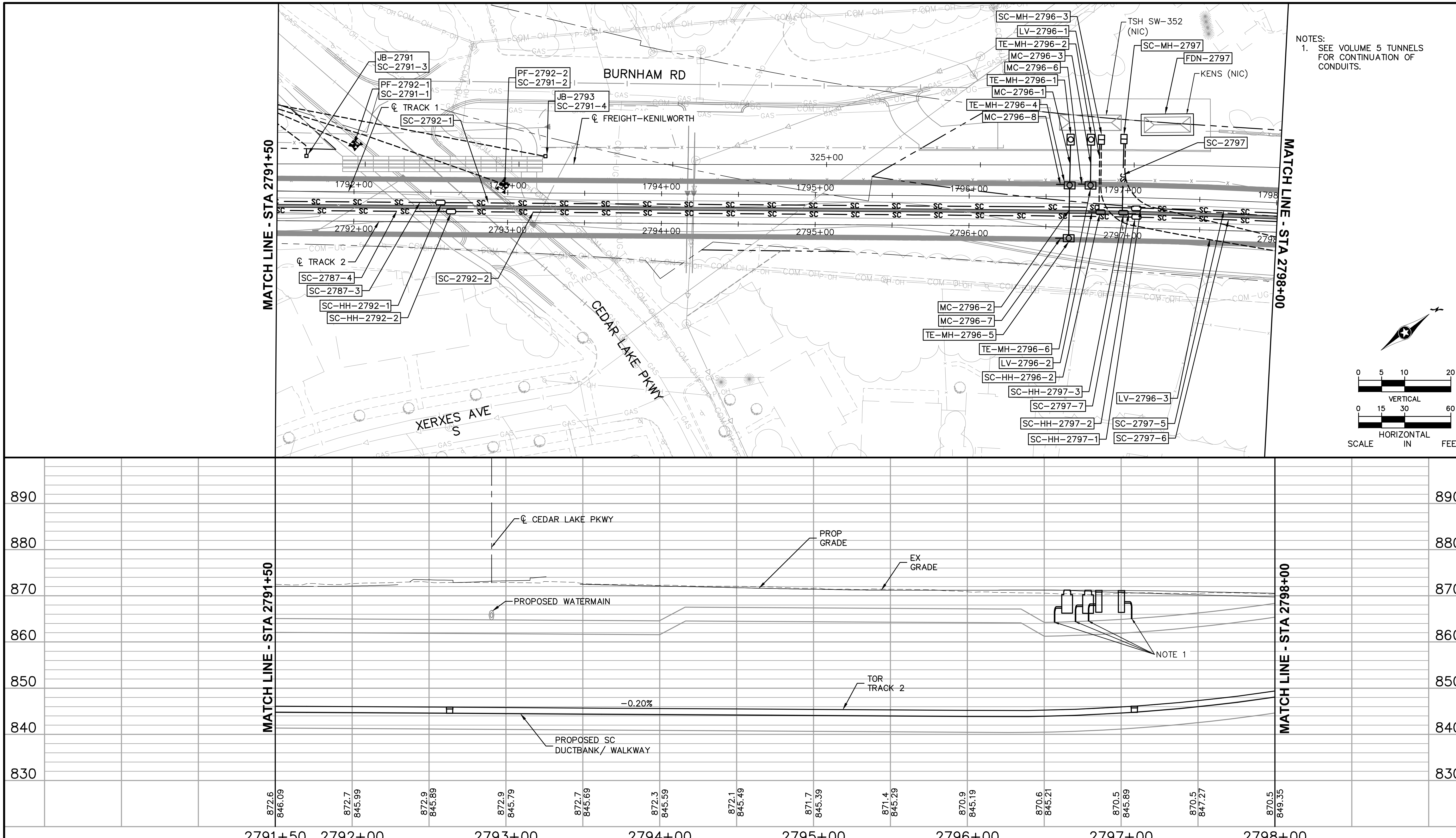
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2785+00 TO STA 2791+50

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-007



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2791+50 TO STA 2798+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-008

SHEET 217 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2792-1	2792+56	12.5' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2792-2	2792+63	6.7' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2796-2	2796+85	9.9' L	SWE-DTL-005	SC HANDHOLE
SC-HH-2797-1	2797+08	12.9' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2797-2	2797+09	7.3' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2797-3	2797+00	9.9' L	SWE-DTL-005	SC HANDHOLE
FDN-2797	2797+27	67.7' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
PF-2792-1	2792+00	49.2' L	SWE-DTL-SIG-011	FREIGHT FLASHER
PF-2792-2	2792+98	24.7' L	SWE-DTL-SIG-011	FREIGHT FLASHER
SC-MH-2796-3	2796+85	57.0' L	SWE-DTL-002	SC MANHOLE
SC-MH-2797	2797+04	64.8' L	SWE-DTL-003	SC MANHOLE
TE-MH-2796-1	2796+65	56.8' L	SWE-DTL-002	TE MANHOLE
TE-MH-2796-2	2796+78	56.9' L	SWE-DTL-002	TE MANHOLE
TE-MH-2796-4	2796+65	27.1' L	SWE-DTL-002	TE MANHOLE
TE-MH-2796-5	2796+65	7.4' R	SWE-DTL-002	TE MANHOLE
TE-MH-2796-6	2796+78	27.2' L	SWE-DTL-004	TE MANHOLE
JB-2791	2791+69	42.3' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX
JB-2793	2793+24	43.2' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2787-3	SC-HH-2787-3	SC-HH-2792-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2787-4	SC-HH-2787-4	SC-HH-2792-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2792-1	SC-HH-2792-1	SC-HH-2797-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2792-2	SC-HH-2792-2	SC-HH-2797-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2797	SC-HH-2797-3	SC-MH-2797	8-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2797-5	TE-HH-2797-1	SC-HH-2798-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2797-6	TE-HH-2797-2	SC-HH-2798-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2797	SC-MH-2797	SC-HH-2797	6-4	6/STU-DTL-001	SC DUCTBANK
MC-2796-1	TE-MH-2796-1	TE-MH-2796-4	8-4	8/STU-DTL-002	MC DUCTBANK
MC-2796-2	TE-MH-2796-4	TE-MH-2796-5	4-4	4/STU-DTL-002	MC DUCTBANK
MC-2796-3	TE-MH-2796-2	TE-MH-2796-6	2-4	2/STU-DTL-002	MC DUCTBANK
MC-2796-6	TE-MH-2796-6	-	2-4	2/STU-DTL-002, NOTE 1	MC DUCTBANK
MC-2796-7	TE-MH-2796-5	-	8-2	STU-DTL-002,NOTE 1	MC CONDUIT
MC-2796-8	TE-MH-2796-4	-	8-2	STU-DTL-002,NOTE 1	MC CONDUIT
LV-2796-1	SC-MH-2796-3	SC-HH-2796-2	2-4	STU-DTL-001	LV CONDUIT
LV-2796-2	TE-HH-2796-2	-	6-2	STU-DTL-001, NOTE 1	LV CONDUIT
LV-2796-3	SC-MH-2796-3	CSU-2798-4	2-4	2/STU-DTL-002	LV CONDUIT
SC-2791-1	SC-MH-2791	PF-2792-1	1-4	STU-DTL-001	SC CONDUIT
SC-2791-2	SC-MH-2791	PF-2792-2	1-4	STU-DTL-001	SC CONDUIT
SC-2791-3	SC-MH-2791	JB-2791	1-2	STU-DTL-001	SC CONDUIT
SC-2791-4	SC-MH-2791	JB-2793	1-2	STU-DTL-001	SC CONDUIT
SC-2797-7	SC-HH-2797-3	-	11-2,1-4	STU-DTL-001, NOTE 1	SC CONDUIT

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.
2. SEE VOLUME 5 TUNNELS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2791+50 TO STA 2798+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-008

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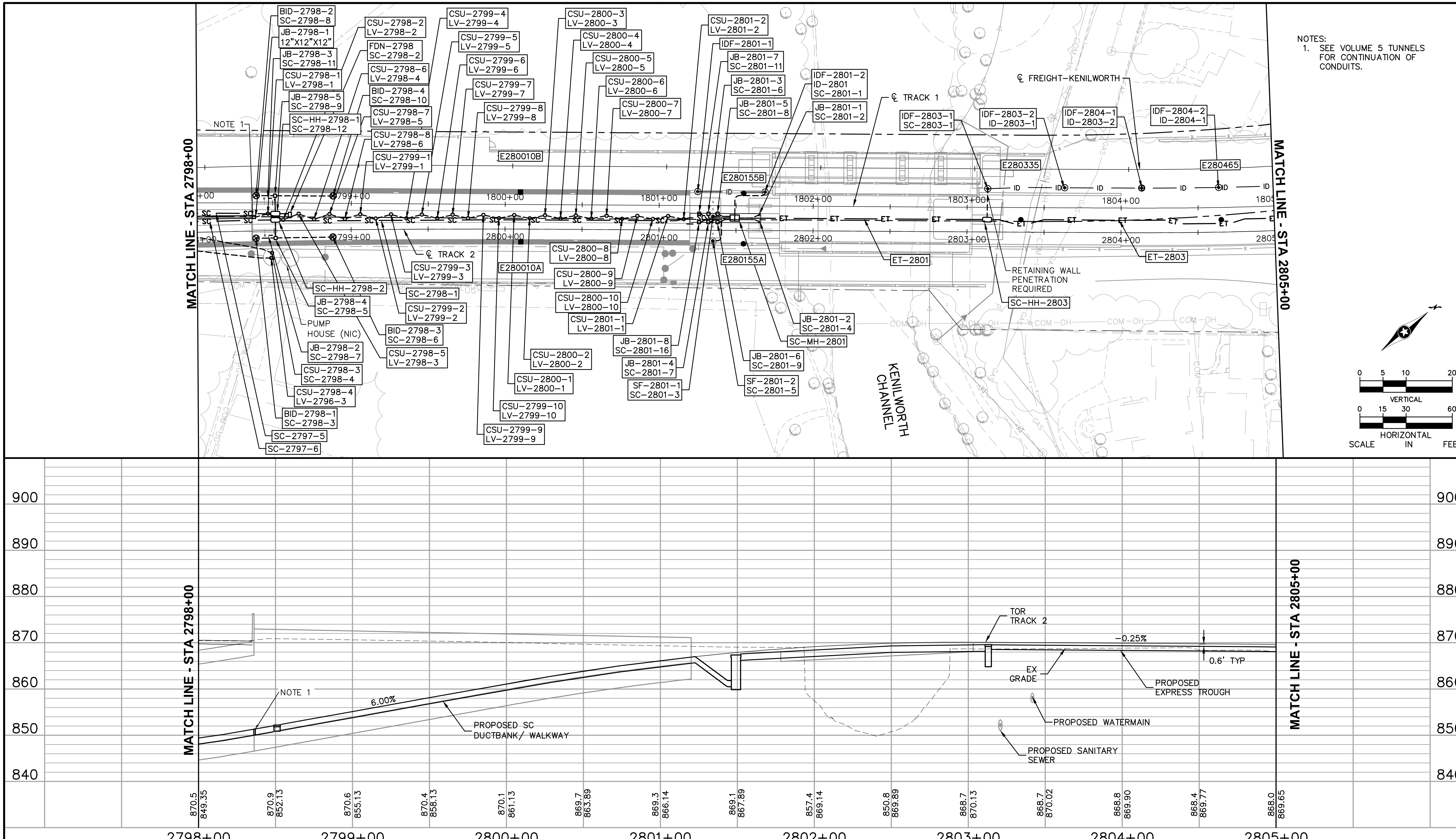


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2798+00 TO STA 2805+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-009

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2801	2801+69	8.0' L	SWE-DTL-003	SC MANHOLE
FDN-2798	2798+54	9.0' L	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
SF-2801-1	2801+19	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2801-2	2801+20	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
CSU-2798-1	2798+46	11.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2798-2	2798+56	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2798-3	2798+45	18.5' R		PUMP COMMUNICATION CABINET CONDUIT STUB UP
CSU-2798-4	2798+45	20.8' R		PUMP COMMUNICATION CABINET CONDUIT STUB UP
CSU-2798-5	2798+66	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2798-6	2798+76	6.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2798-7	2798+86	10.3' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2798-8	2798+96	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-1	2799+06	9.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-2	2799+16	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-3	2799+26	9.6' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-4	2799+36	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-5	2799+46	9.4' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-6	2799+56	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-7	2799+66	9.1' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-8	2799+76	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-9	2799+86	9.1' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2799-10	2799+96	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-1	2800+06	9.1' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-2	2800+16	6.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-3	2800+26	8.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-4	2800+36	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-5	2800+46	9.1' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-6	2800+56	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-7	2800+66	8.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-8	2800+76	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-9	2800+86	8.9' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2800-10	2800+96	7.1' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2801-1	2801+06	9.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
CSU-2801-2	2801+16	7.0' L	E3-SYS-STU-DTL-001	LIGHTING CONDUIT STUB UP
IDF-2801-1	2801+25	25.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2801-2	2801+69	25.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2803-1	2803+13	28.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2803-2	2803+63	29.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2804-1	2804+13	29.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2804-2	2804+64	29.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
JB-2798-1	2798+37	9.1' L		LIGHTING JUNCTION BOX
JB-2798-2	2798+46	3.0' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2798-3	2798+46	21.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2798-4	2798+51	4.7' R	1/SWE-DTL-025	INTRUSION DETECTION JUNCTION BOX
JB-2798-5	2798+51	22.7' L	1/SWE-DTL-025	INTRUSION DETECTION JUNCTION BOX
JB-2801-1	2801+65	10.2' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2801-2	2801+65	5.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2801-3	2801+32	10.8' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2801-4	2801+32	5.3' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2801-5	2801+38	10.8' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2801-6	2801+38	5.3'L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2801-7	2801+26	10.8' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2801-8	2801+26	5.3' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
SC-HH-2798-1	2798+51	11.0' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2798-2	2798+51	7.0' L	2/SWE-TYP-007, NOTE 2	SC HANDHOLE
SC-HH-2803	2803+13	8.0' L	SWE-DTL-005	SC HANDHOLE
BID-2798-1	2798+38	4.7' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION
BID-2798-2	2798+39	23.0' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION
BID-2798-3	2798+88	4.7' R	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION
BID-2798-4	2798+88	22.0' L	SWE-DTL-COM-002	BRIDGE INTRUSION DETECTION

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2797-5	TE-HH-2797-1	SC-HH-2798-1	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2797-6	TE-HH-2797-2	SC-HH-2798-2	6-4	2/SWE-TYP-007, NOTE 1	MAINLINE SC DUCTBANK
SC-2798-1	SC-HH-2798-2	SC-MH-2801	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2798-2	SC-HH-2798-1	FDN-2798	4-2	STU-DTL-001	SC CONDUIT
SC-2798-3	JB-2798-4	BID-2798-1	1-2	STU-DTL-001	SC CONDUIT
SC-2798-4	CSU-2798-3	SC-MH-2797	2-4	STU-DTL-001	SC CONDUIT
SC-2798-5	SC-HH-2798-2	JB-2798-4	1-4	STU-DTL-001	SC CONDUIT
SC-2798-6	JB-2798-4	BID-2798-3	1-2	STU-DTL-001	SC CONDUIT
SC-2798-7	JB-2798-2	SC-HH-2798-2	1-2	STU-DTL-001	SC-CONDUIT
SC-2798-8	JB-2798-5	BID-2798-2	1-2	STU-DTL-001	SC-CONDUIT
SC-2798-9	SC-HH-2798-1	JB-2798-5	1-4	STU-DTL-001	SC-CONDUIT
SC-2798-10	JB-2798-5	BID-2798-4	1-2	STU-DTL-001	SC-CONDUIT
SC-2798-11	SC-HH-2798-1	JB-2798-3	1-2	STU-DTL-001	SC-CONDUIT
SC-2798-12	SC-HH-2798-1	SC-HH-2798-2	4-4	STU-DTL-001	SC-CONDUIT
SC-2801-1	SC-MH-2801	IDF-2801-2	1-2	STU-DTL-001	SC CONDUIT
SC-2801-2	SC-MH-2801	JB-2801-1	1-2	STU-DTL-001	SC CONDUIT
SC-2801-3	SC-MH-2801	SF-2801-1	1-2	STU-DTL-001	SC CONDUIT
SC-2801-4	SC-MH-2801	JB-2801-2	1-2	STU-DTL-001	SC CONDUIT
SC-2801-5	SC-MH-2801	SF-2801-2	1-2	STU-DTL-001	SC CONDUIT
SC-2801-6	SC-MH-2801	JB-2801-3	1-2	STU-DTL-001	SC CONDUIT
SC-2801-7	SC-MH-2801	JB-2801-4	1-2	STU-DTL-001	SC CONDUIT
SC-2801-8	SC-MH-2801	JB-2801-5	1-2	STU-DTL-001	SC CONDUIT
SC-2801-9	SC-MH-2801	JB-2801-6	1-2	STU-DTL-001	SC CONDUIT
SC-2801-10	SC-MH-2801	JB-2801-8	1-2	STU-DTL-001	SC CONDUIT
SC-2801-11	SC-MH-2801	JB-2801-7	1-2	STU-DTL-001	SC CONDUIT
SC-2803-1	SC-MH-2803	IDF-2803-1	1-2	STU-DTL-001	SC CONDUIT
ET-2801	SC-MH-2801	SC-MH-2803	TYPE II	2/SWE-DTL-010	EXPRESS TROUGH
ET-2803	SC-MH-2803	SC-HH-2814	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2801	IDF-2801-1	IDF-2801-2	1-2	STU-DTL-001	ID CONDUIT
ID-2803-1	IDF-2803-1	IDF-2803-2	1-2	STU-DTL-001	ID CONDUIT
ID-2803-2	IDF-2803-2	IDF-2804-1	1-2	STU-DTL-001	ID CONDUIT
ID-2804-1	IDF-2804-1	IDF-2804-2	1-2	STU-DTL-001	ID CONDUIT
LV-2796-3	SC-MH-2796-3	CSU-2798-4	2-4	2/STU-DTL-002	LV CONDUIT
LV-2798-1	JB-2798-1	CSU-2798-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2798-2	CSU-2798-1	CSU-2798-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2798-3	CSU-2798-2	CSU-2798-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2798-4	CSU-2798-5	CSU-2798-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2798-5	CSU-2798-6	CSU-2798-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2798-6	CSU-2798-7	CSU-2798-8	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-1	CSU-2799-1	CSU-2798-8	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-2	CSU-2799-2	CSU-2799-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-3	CSU-2799-3	CSU-2799-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-4	CSU-2799-4	CSU-2799-3	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-5	CSU-2799-5	CSU-2799-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-6	CSU-2799-6	CSU-2799-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-7	CSU-2799-7	CSU-2799-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-8	CSU-2799-8	CSU-2799-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-9	CSU-2799-9	CSU-2799-8	1-3/4	STU-DTL-001	LV CONDUIT
LV-2799-10	CSU-2799-10	CSU-2799-9	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-1	CSU-2800-1	CSU-2799-10	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-2	CSU-2800-2	CSU-2800-1	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-3	CSU-2800-3	CSU-2800-2	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-4	CSU-2800-4	CSU-2800-3	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-5	CSU-2800-5	CSU-2800-4	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-6	CSU-2800-6	CSU-2800-5	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-7	CSU-2800-7	CSU-2800-6	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-8	CSU-2800-8	CSU-2800-7	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-9	CSU-2800-9	CSU-2800-8	1-3/4	STU-DTL-001	LV CONDUIT
LV-2800-10	CSU-2800-10	CSU-2800-9	1-3/4	STU-DTL-001	LV CONDUIT
LV-2801-1	CSU-2801-1	CSU-2800-10	1-3/4	STU-DTL-001	LV CONDUIT
LV-2801-2	CSU-2801-2	CSU-2801-1	1-3/4	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.
2. SEE VOLUME 5 TUNNELS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

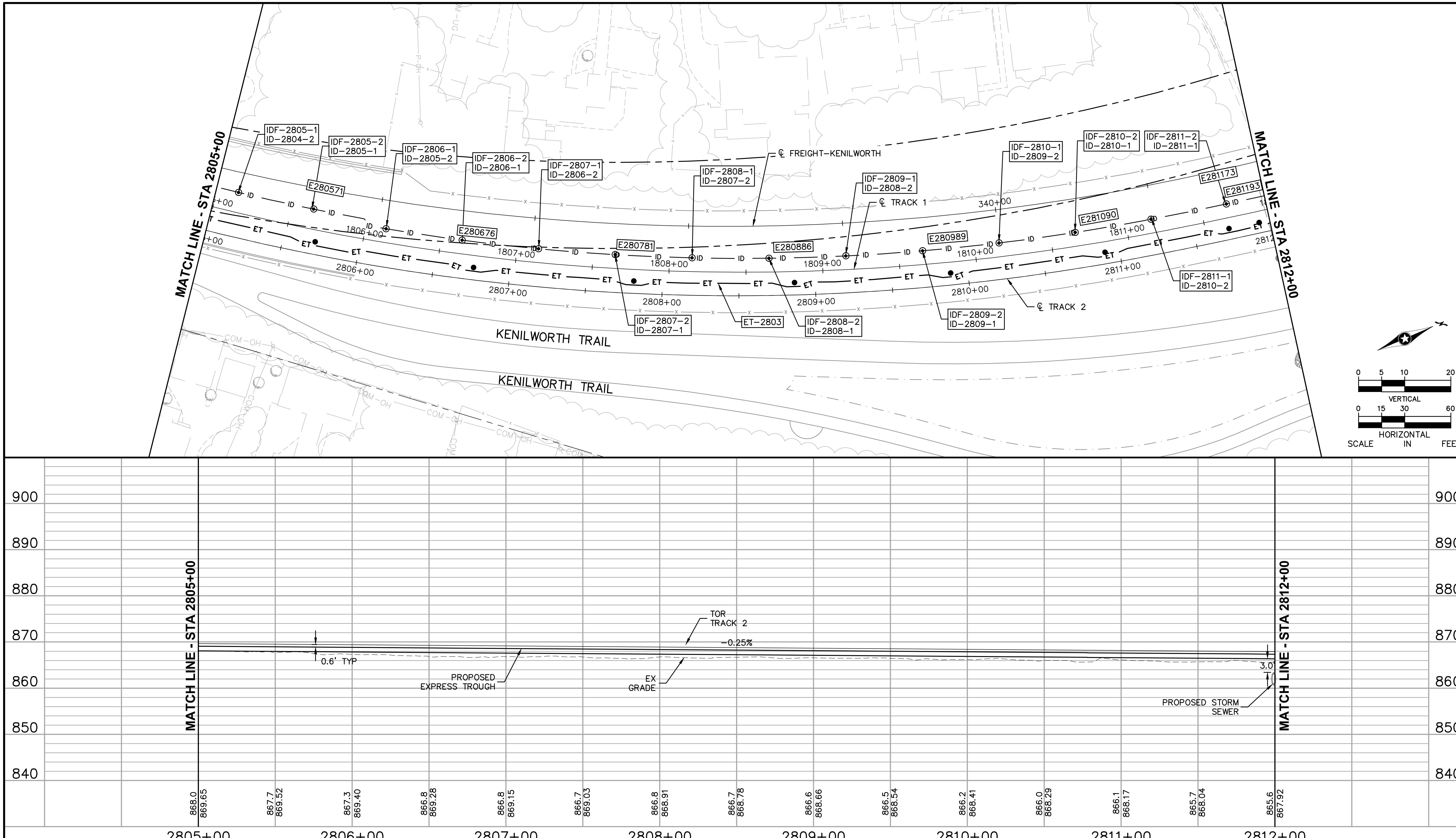
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2798+00 TO STA 2805+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-009



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2805+00 TO STA 2812+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-010

SHEET 221 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2805-1	2805+15	29.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2805-2	2805+66	28.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2806-1	2806+15	24.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2806-2	2806+66	24.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2807-1	2807+17	24.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2807-2	2807+68	24.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2808-1	2808+19	24.4' R	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2808-2	2808+70	24.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2809-1	2809+21	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2809-2	2809+72	23.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2810-1	2810+22	23.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2810-2	2810+73	23.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2811-1	2811+24	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2811-2	2811+75	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2803	SC-MH-2803	SC-HH-2814	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2804-2	IDF-2804-2	IDF-2805-1	1-2	STU-DTL-001	ID CONDUIT
ID-2805-1	IDF-2805-1	IDF-2805-2	1-2	STU-DTL-001	ID CONDUIT
ID-2805-2	IDF-2805-2	IDF-2806-1	1-2	STU-DTL-001	ID CONDUIT
ID-2806-1	IDF-2806-1	IDF-2806-2	1-2	STU-DTL-001	ID CONDUIT
ID-2806-2	IDF-2806-2	IDF-2807-1	1-2	STU-DTL-001	ID CONDUIT
ID-2807-1	IDF-2807-1	IDF-2807-2	1-2	STU-DTL-001	ID CONDUIT
ID-2807-2	IDF-2807-2	IDF-2808-1	1-2	STU-DTL-001	ID CONDUIT
ID-2808-1	IDF-2808-1	IDF-2808-2	1-2	STU-DTL-001	ID CONDUIT
ID-2808-2	IDF-2808-2	IDF-2809-1	1-2	STU-DTL-001	ID CONDUIT
ID-2809-1	IDF-2809-1	IDF-2809-2	1-2	STU-DTL-001	ID CONDUIT
ID-2809-2	IDF-2809-2	IDF-2810-1	1-2	STU-DTL-001	ID CONDUIT
ID-2810-1	IDF-2810-1	IDF-2810-2	1-2	STU-DTL-001	ID CONDUIT
ID-2810-2	IDF-2810-2	IDF-2811-1	1-2	STU-DTL-001	ID CONDUIT
ID-2811-1	IDF-2811-1	IDF-2811-2	1-2	STU-DTL-001	ID CONDUIT

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

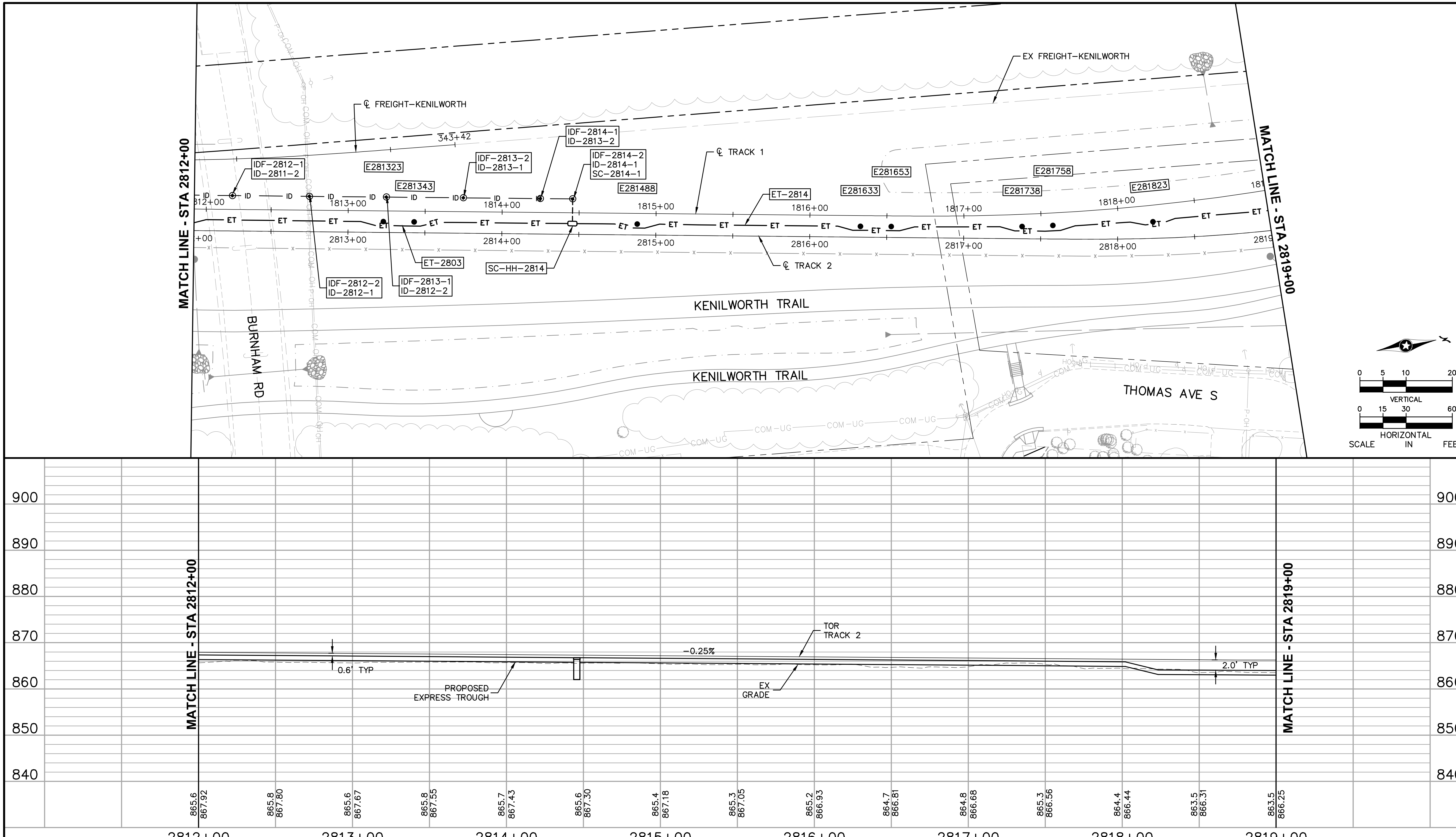
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2805+00 TO STA 2812+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-010

SHEET 222 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2812+00 TO STA 2819+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-011

SHEET 223 OF 464

Jan, 18 2016 08:11 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E3-SYS-SWE-PRF.dwg By: V-CameroAD

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2814	2814+46	7.0' L	SWE-DTL-005	SC HANDHOLE
IDF-2812-1	2812+25	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2812-2	2812+75	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2813-1	2813+25	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2813-2	2813+75	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2814-1	2814+25	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2814-2	2814+46	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2803	SC-MH-2803	SC-HH-2814	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2814	SC-HH-2814	SC-MH-2820	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2814-1	SC-HH-2814	IDF-2814-2	1-2	STU-DTL-001	SC CONDUIT
ID-2811-2	IDF-2811-2	IDF-2812-1	1-2	STU-DTL-001	ID CONDUIT
ID-2812-1	IDF-2812-1	IDF-2812-2	1-2	STU-DTL-001	ID CONDUIT
ID-2812-2	IDF-2812-2	IDF-2813-1	1-2	STU-DTL-001	ID CONDUIT
ID-2813-1	IDF-2813-1	IDF-2813-2	1-2	STU-DTL-001	ID CONDUIT
ID-2813-2	IDF-2813-2	IDF-2814-1	1-2	STU-DTL-001	ID CONDUIT
ID-2814-1	IDF-2814-1	IDF-2814-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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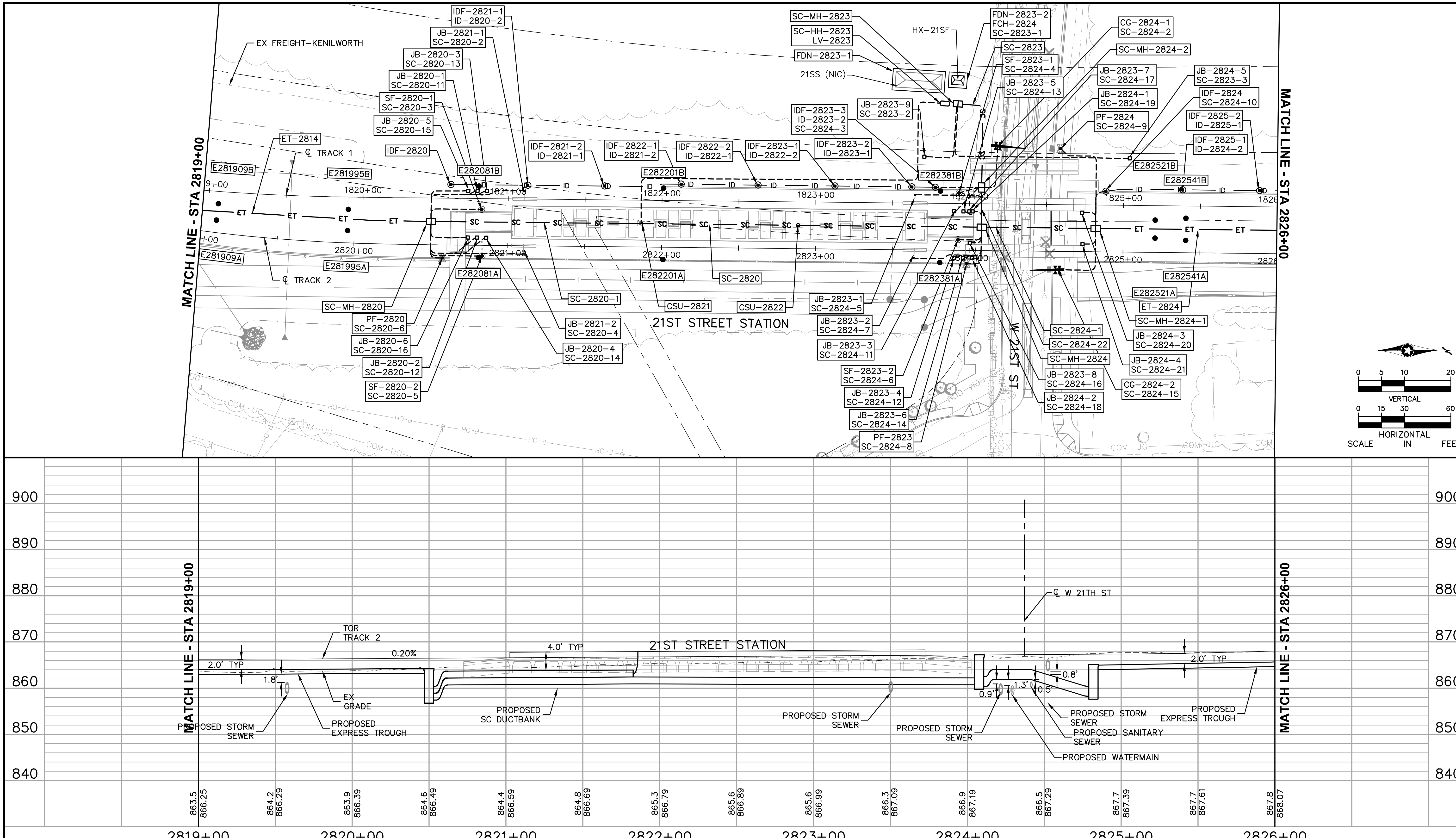
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2812+00 TO STA 2819+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-011



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2819+00 TO STA 2826+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-012

SHEET 225 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2820	2820+50	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2823	2823+70	97.8' L	SWE-DTL-003	SC MANHOLE
SC-MH-2824	2824+08	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2824-1	2824+82	15.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2824-2	2824+08	41.0' L	SWE-DTL-003	SC MANHOLE
FDN-2823-1	2823+66	110.0' L	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
FDN-2823-2	2823+91	110.7' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
SF-2820-1	2820+83	23.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2820-2	2820+83	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2823-1	2823+93	37.3' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2823-2	2823+93	6.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
CG-2824-1	2824+18	68.1' L	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
CG-2824-2	2824+58	12.0' R	SWE-DTL-SIG-010	FREIGHT CROSSING GATE
PF-2820	2820+57	8.5' R	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
PF-2823	2823+98	8.5' R	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
PF-2824	2824+59	66.9' L	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
JB-2820-1	2820+80	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2820-2	2820+80	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2820-3	2820+86	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2820-4	2820+86	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2820-5	2820+74	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2820-6	2820+74	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2821-1	2821+11	33.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2821-2	2821+10	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2823-1	2823+65	33.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2823-2	2823+64	2.8' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2823-3	2823+90	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2823-4	2823+90	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2823-5	2823+96	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2823-6	2823+96	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2823-7	2824+00	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2823-8	2824+00	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2823-9	2823+70	60.7' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX
JB-2824-1	2824+02	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2824-2	2824+02	5.00' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2824-3	2824+73	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2824-4	2824+74	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2924-5	2825+04	61' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX
CSU-2821	2821+87	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
IDF-2820	2820+63	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2821-1	2821+13	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2821-2	2821+63	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2822-1	2822+12	41.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2822-2	2822+62	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2823-1	2823+12	41.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2823-2	2823+62	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2823-3	2823+77	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2824	2824+88	39.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2825-1	2825+38	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2825-2	2825+88	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
FCH-2824	2823+91	110.7' L	SWE-DTL-SIG-015 & 027	FREIGHT CROSSING HOUSE
SC-HH-2823	2823+83	95.4' L	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2814	SC-HH-2814	SC-MH-2820	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2824	SC-MH-2824-1	SC-HH-2836	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2820	SC-MH-2820	CSU-2821	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2820-1	SC-MH-2820	SC-MH-2824	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2824-1	SC-MH-2824	SC-MH-2824-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2823	SC-MH-2823	SC-MH-2824-2	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2824-22	SC-MH-2824-2	SC-MH-2824	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2820-2	SC-MH-2820	JB-2821-1	1-2	STU-DTL-001	SC CONDUIT
SC-2820-3	SC-MH-2820	SF-2820-1	1-2	STU-DTL-001	SC CONDUIT
SC-2820-4	SC-MH-2820	JB-2821-2	1-2	STU-DTL-001	SC CONDUIT
SC-2820-5	SC-MH-2820	SF-2820-2	1-2	STU-DTL-001	SC CONDUIT
SC-2820-6	SC-MH-2820	PF-2820	1-4	STU-DTL-001	SC CONDUIT
SC-2820-11	SC-MH-2820	JB-2820-1	1-2	STU-DTL-001	SC CONDUIT
SC-2820-12	SC-MH-2820	JB-2820-2	1-2	STU-DTL-001	SC CONDUIT
SC-2820-13	SC-MH-2820	JB-2820-3	1-2	STU-DTL-001	SC CONDUIT
SC-2820-14	SC-MH-2820	JB-2820-4	1-2	STU-DTL-001	SC CONDUIT
SC-2820-15	SC-MH-2820	JB-2820-5	1-2	STU-DTL-001	SC CONDUIT
SC-2820-16	SC-MH-2820	JB-2820-6	1-2	STU-DTL-001	SC CONDUIT
SC-2823-2	SC-MH-2823	JB-2823-9	1-2	STU-DTL-001	SC CONDUIT
SC-2823-3	SC-MH-2823	JB-2824-5	1-2	STU-DTL-001	SC CONDUIT
SC-2824-2	SC-MH-2824-2	CG-2824-1	1-4	STU-DTL-001	SC CONDUIT
SC-2824-3	SC-MH-2824-2	IDF-2823-3	1-2	STU-DTL-001	SC CONDUIT
SC-2824-4	SC-MH-2824-2	SF-2823-1	1-2	STU-DTL-001	SC CONDUIT
SC-2824-5	SC-MH-2824	JB-2823-1	1-2	STU-DTL-001	SC CONDUIT
SC-2824-6	SC-MH-2824	SF-2823-2	1-2	STU-DTL-001	SC CONDUIT
SC-2824-7	SC-MH-2824	JB-2823-2	1-2	STU-DTL-001	SC CONDUIT
SC-2824-8	SC-MH-2824	PF-2823	1-4	STU-DTL-001	SC CONDUIT
SC-2824-9	SC-MH-2824-1	PF-2824	1-4	STU-DTL-001	SC CONDUIT
SC-2824-10	SC-MH-2824-1	IDF-2824	1-2	STU-DTL-001	SC CONDUIT
SC-2824-11	SC-MH-2824-2	JB-2823-3	1-2	STU-DTL-001	SC CONDUIT
SC-2824-12	SC-MH-2824	JB-2823-4	1-2	STU-DTL-001	SC CONDUIT
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SC-2824-14	SC-MH-2824	JB-2823-6	1-2	STU-DTL-001	SC CONDUIT
SC-2824-15	SC-MH-2824-1	CG-2824-2	1-4	STU-DTL-001	SC CONDUIT
SC-2824-16	SC-MH-2824	JB-2823-8	1-2	STU-DTL-001	SC CONDUIT
SC-2824-17	SC-MH-2824	JB-2823-7	1-2	STU-DTL-001	SC CONDUIT
SC-2824-18	SC-MH-2824	JB-2824-2	1-2	STU-DTL-001	SC CONDUIT
SC-2824-19	SC-MH-2824	JB-2824-1	1-2	STU-DTL-001	SC CONDUIT
SC-2824-20	SC-MH-2824-1	JB-2824-3	1-2	STU-DTL-001	SC CONDUIT
SC-2824-21	SC-MH-2824-1	JB-2824-4	1-2	STU-DTL-001	SC CONDUIT
ID-2820-2	IDF-2820	IDF-2821-1	1-2	STU-DTL-001	ID CONDUIT
ID-2821-1	IDF-2821-1	IDF-2821-2	1-2	STU-DTL-001	ID CONDUIT
ID-2821-2	IDF-2821-2	IDF-2822-1	1-2	STU-DTL-001	ID CONDUIT
ID-2822-1	IDF-2822-1	IDF-2822-2	1-2	STU-DTL-001	ID CONDUIT
ID-2822-2	IDF-2822-2	IDF-2823-1	1-2	STU-DTL-001	ID CONDUIT
ID-2823-1	IDF-2823-1	IDF-2823-2	1-2	STU-DTL-001	ID CONDUIT
ID-2823-2	IDF-2823-2	IDF-2823-3	1-2	STU-DTL-001	ID CONDUIT
ID-2824-2	IDF-2824	IDF-2825-1	1-2	STU-DTL-001	ID CONDUIT
ID-2825-1	IDF-2825-1	IDF-2825-2	1-2	STU-DTL-001	ID CONDUIT
LV-2823	SC-HH-2823	CSU-2821	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

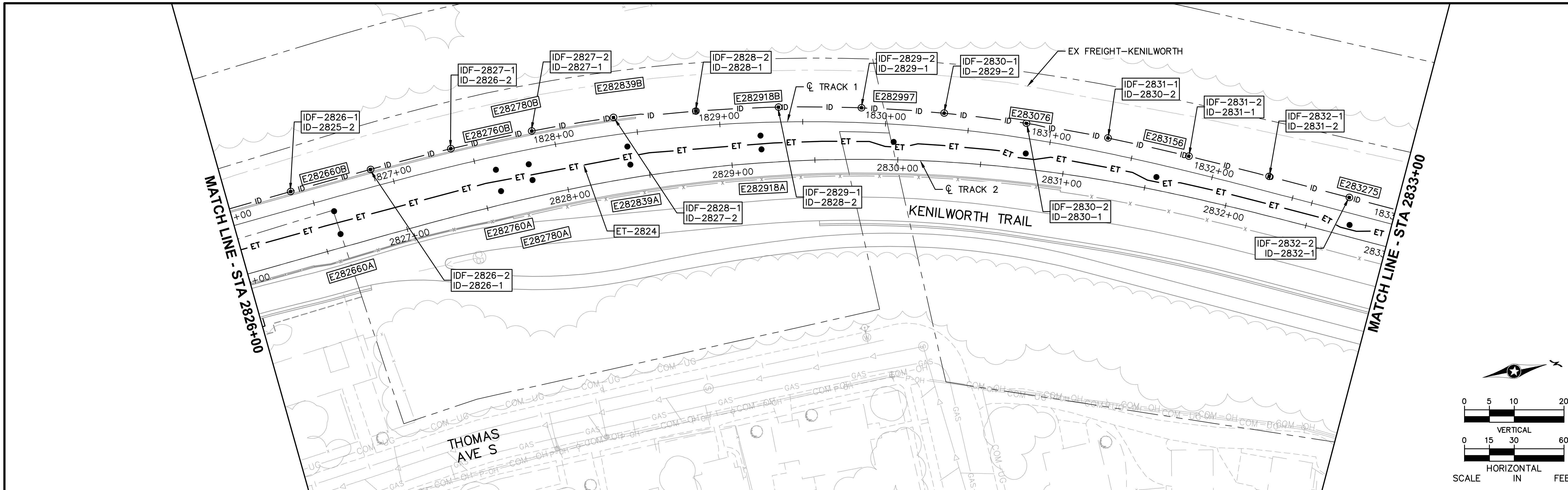
METROPOLITAN COUNCIL

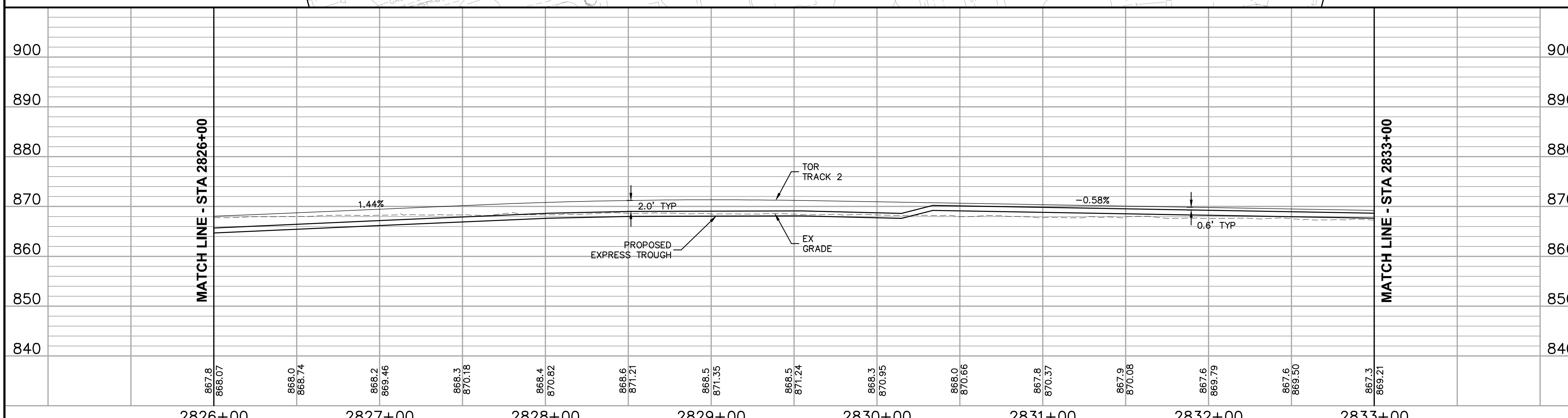
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2819+00 TO STA 2826+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-012





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2826+00 TO STA 2833+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-013

SHEET 227 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2826-1	2826+38	40.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2826-2	2826+88	40.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2827-1	2827+37	40.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2827-2	2827+85	39.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2828-1	2828+34	37.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2828-2	2828+82	34.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2829-1	2829+30	32.9' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2829-2	2829+78	31.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2830-1	2830+26	29.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2830-2	2830+75	27.4' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2831-1	2831+23	25.5' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2831-2	2831+72	24.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2832-1	2832+21	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2832-2	2832+71	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2824	SC-MH-2824-1	SC-HH-2836	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ID-2825-2	IDF-2825-2	IDF-2826-1	1-2	STU-DTL-001	ID CONDUIT
ID-2826-1	IDF-2826-1	IDF-2826-2	1-2	STU-DTL-001	ID CONDUIT
ID-2826-2	IDF-2826-2	IDF-2827-1	1-2	STU-DTL-001	ID CONDUIT
ID-2827-1	IDF-2827-1	IDF-2827-2	1-2	STU-DTL-001	ID CONDUIT
ID-2827-2	IDF-2827-2	IDF-2828-1	1-2	STU-DTL-001	ID CONDUIT
ID-2828-1	IDF-2828-1	IDF-2828-2	1-2	STU-DTL-001	ID CONDUIT
ID-2828-2	IDF-2828-2	IDF-2829-1	1-2	STU-DTL-001	ID CONDUIT
ID-2829-1	IDF-2829-1	IDF-2829-2	1-2	STU-DTL-001	ID CONDUIT
ID-2829-2	IDF-2829-2	IDF-2830-1	1-2	STU-DTL-001	ID CONDUIT
ID-2830-1	IDF-2830-1	IDF-2830-2	1-2	STU-DTL-001	ID CONDUIT
ID-2830-2	IDF-2830-2	IDF-2831-1	1-2	STU-DTL-001	ID CONDUIT
ID-2831-1	IDF-2831-1	IDF-2831-2	1-2	STU-DTL-001	ID CONDUIT
ID-2831-2	IDF-2831-2	IDF-2832-1	1-2	STU-DTL-001	ID CONDUIT
ID-2832-1	IDF-2832-1	IDF-2832-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

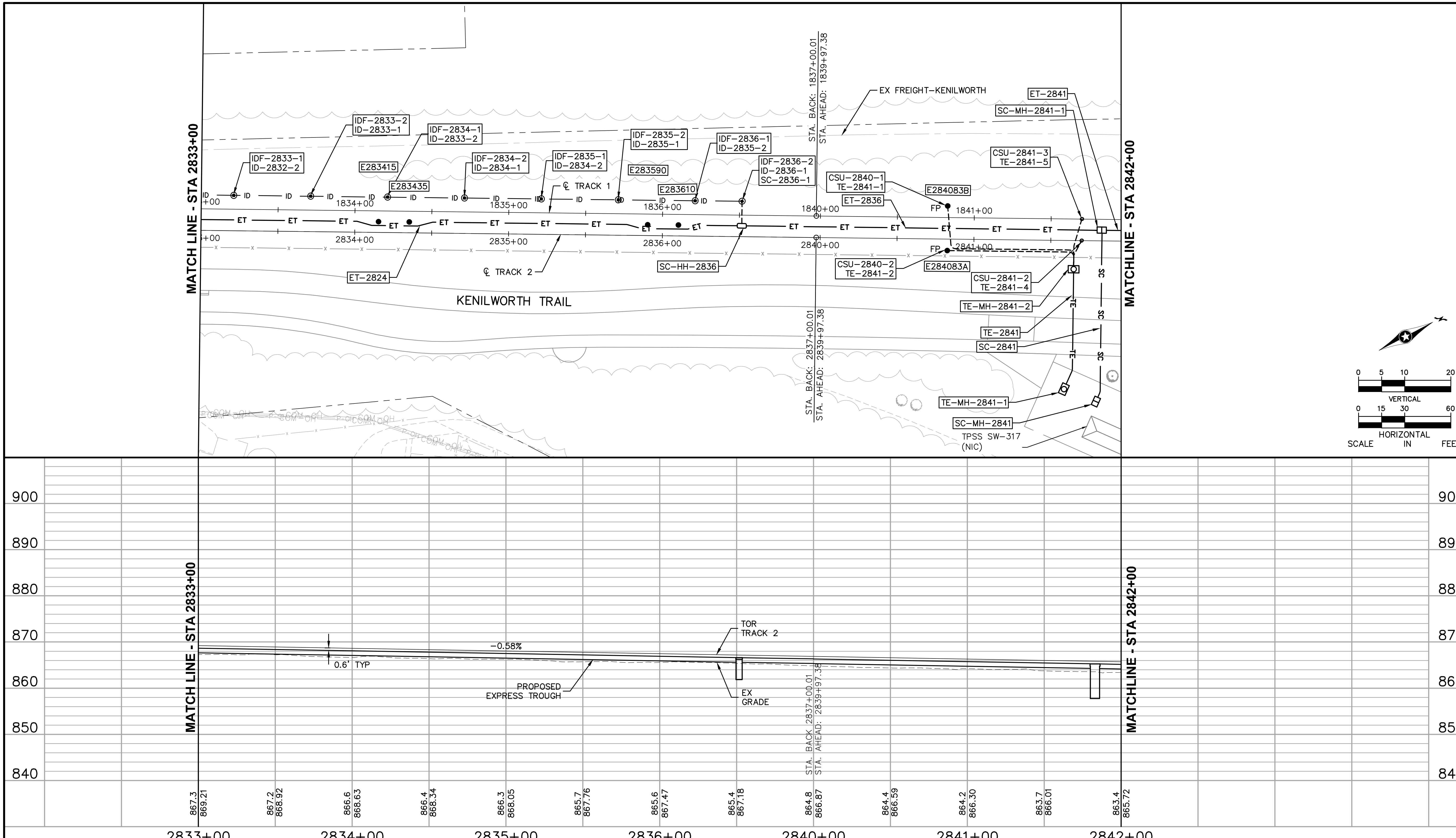
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2826+00 TO STA 2833+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-013



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2833+00 TO STA 2842+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-PRF-014

SHEET 229 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2841	2841+82	80.9' R	SWE-DTL-003	SC MANHOLE
SC-MH-2841-1	2841+83	70.0' L	SWE-DTL-003	SC MANHOLE
SC-HH-2836	2836+77	7.0' L	SWE-DTL-005	SC HANDHOLE
IDF-2833-1	2833+21	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2833-2	2833+71	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2834-1	2834+21	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2834-2	2834+71	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2835-1	2835+21	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2835-2	2835+71	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2836-1	2836+21	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2836-2	2836+52	23.0' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
TE-MH-2841-1	2841+63	80.7' R	SWE-DTL-002	TE MANHOLE
TE-MH-2841-2	2841+65	7.0' L	SWE-DTL-002	TE MANHOLE
CSU-2840-1	2840+83	19.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2840-2	2840+83	5.0' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2841-2	2841+70	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2841-3	2841+70	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2824	SC-MH-2824-1	SC-HH-2836	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2836	SC-HH-2836	SC-MH-2841-1	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2841	SC-MH-2841-1	SC-HH-2844	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2841	SC-MH-2841	SC-MH-2841-1	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2836-1	SC-HH-2836	IDF-2836-2	1-2	STU-DTL-001	SC CONDUIT
ID-2832-2	IDF-2832-2	IDF-2833-1	1-2	STU-DTL-001	ID CONDUIT
ID-2833-1	IDF-2833-1	IDF-2833-2	1-2	STU-DTL-001	ID CONDUIT
ID-2833-2	IDF-2833-2	IDF-2834-1	1-2	STU-DTL-001	ID CONDUIT
ID-2834-1	IDF-2834-1	IDF-2834-2	1-2	STU-DTL-001	ID CONDUIT
ID-2834-2	IDF-2834-2	IDF-2835-1	1-2	STU-DTL-001	ID CONDUIT
ID-2835-1	IDF-2835-1	IDF-2835-2	1-2	STU-DTL-001	ID CONDUIT
ID-2835-2	IDF-2835-2	IDF-2836-1	1-2	STU-DTL-001	ID CONDUIT
ID-2836-1	IDF-2836-1	IDF-2836-2	1-2	STU-DTL-001	ID CONDUIT
TE-2841	TE-MH-2841-1	TE-MH-2841-2	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2841-1	TE-MH-2841-2	CSU-2840-1	2-4	STU-DTL-002	TE CONDUIT
TE-2841-2	TE-MH-2841-2	CSU-2840-2	2-4	STU-DTL-002	TE CONDUIT
TE-2841-4	TE-MH-2841-2	CSU-2841-2	1-5	STU-DTL-002	TE CONDUIT
TE-2841-5	TE-MH-2841-2	CSU-2841-3	1-5	STU-DTL-002	TE CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2833+00 TO STA 2842+00

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SCH-014

SHEET 230 OF 464

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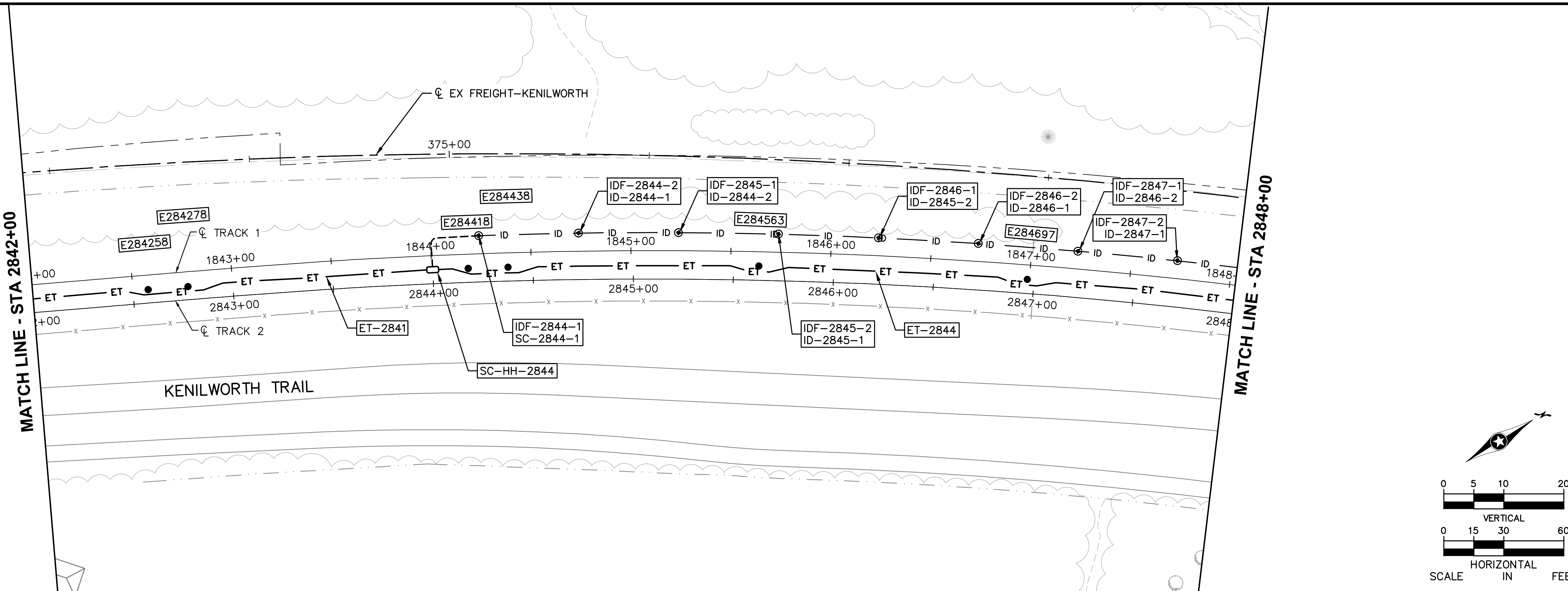

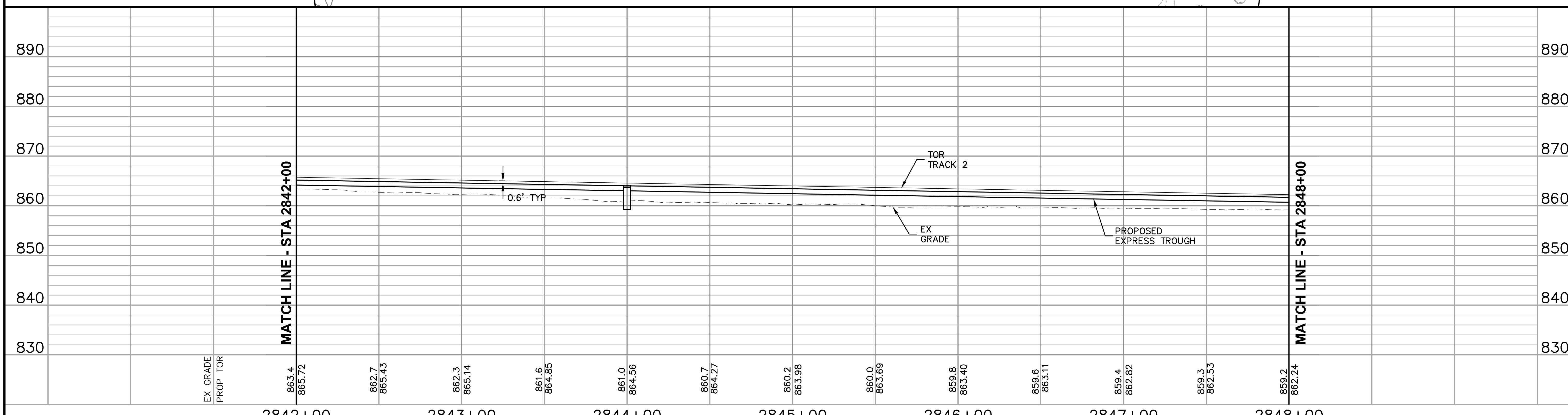

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2842+00 TO STA 2848+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-001

SHEET 231 OF 464

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-PRF.dwg By: V-CameroAD

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2844	2844+00	7.0' L	SWE-DTL-005	SC HANDHOLE
IDF-2844-1	2844+23	23.1' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2844-2	2844+73	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2845-1	2845+72	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2845-2	2846+25	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2846-1	2846+71	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2846-2	2846+71	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2847-1	2847+21	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2847-2	2847+70	23.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2841	SC-MH-2841-2	SC-HH-2844	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2844	SC-HH-2844	SC-MH-2855	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2844-1	SC-HH-2844	IDF-2844-1	1-2	STU-DTL-001	SC CONDUIT
ID-2844-1	IDF-2844-1	IDF-2844-2	1-2	STU-DTL-001	ID CONDUIT
ID-2844-2	IDF-2844-2	IDF-2845-1	1-2	STU-DTL-001	ID CONDUIT
ID-2845-1	IDF-2845-1	IDF-2845-2	1-2	STU-DTL-001	ID CONDUIT
ID-2845-2	IDF-2845-2	IDF-2846-1	1-2	STU-DTL-001	ID CONDUIT
ID-2846-1	IDF-2846-1	IDF-2846-2	1-2	STU-DTL-001	ID CONDUIT
ID-2846-2	IDF-2846-2	IDF-2847-1	1-2	STU-DTL-001	ID CONDUIT
ID-2847-1	IDF-2847-1	IDF-2847-2	1-2	STU-DTL-001	ID CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2842+00 TO STA 2848+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-001

SHEET 232 OF 464

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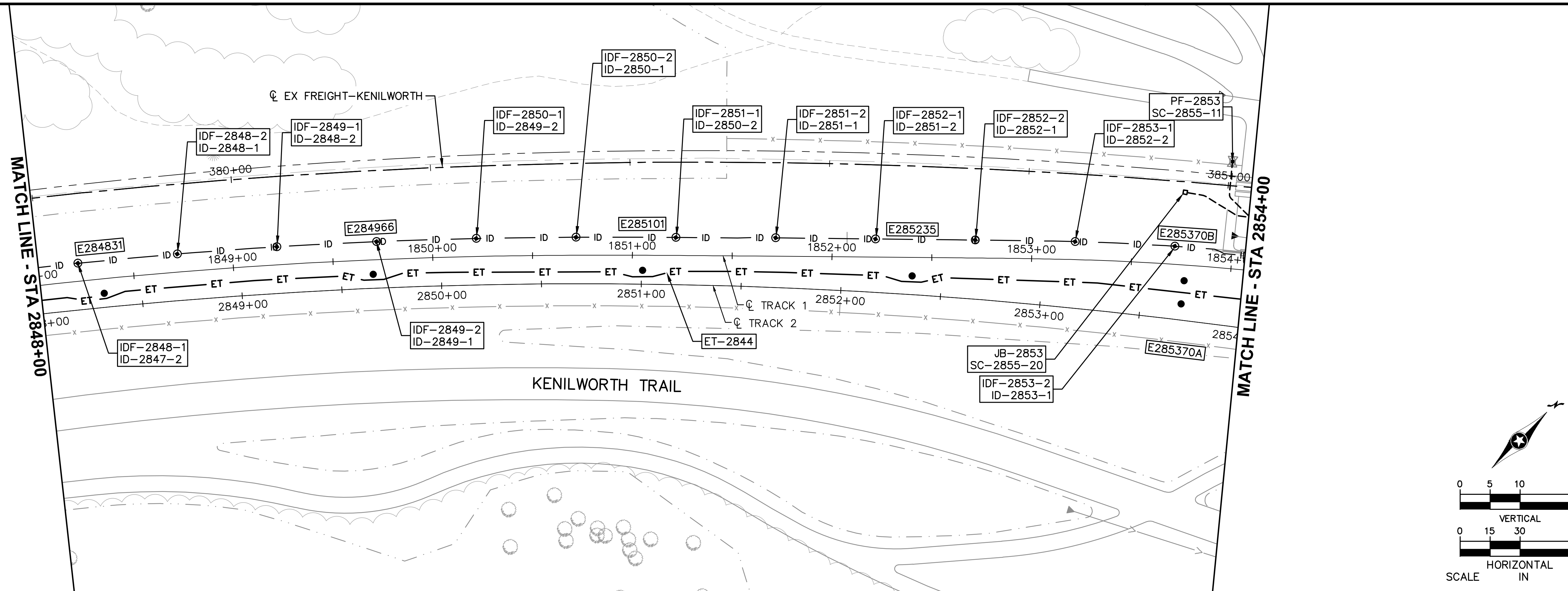

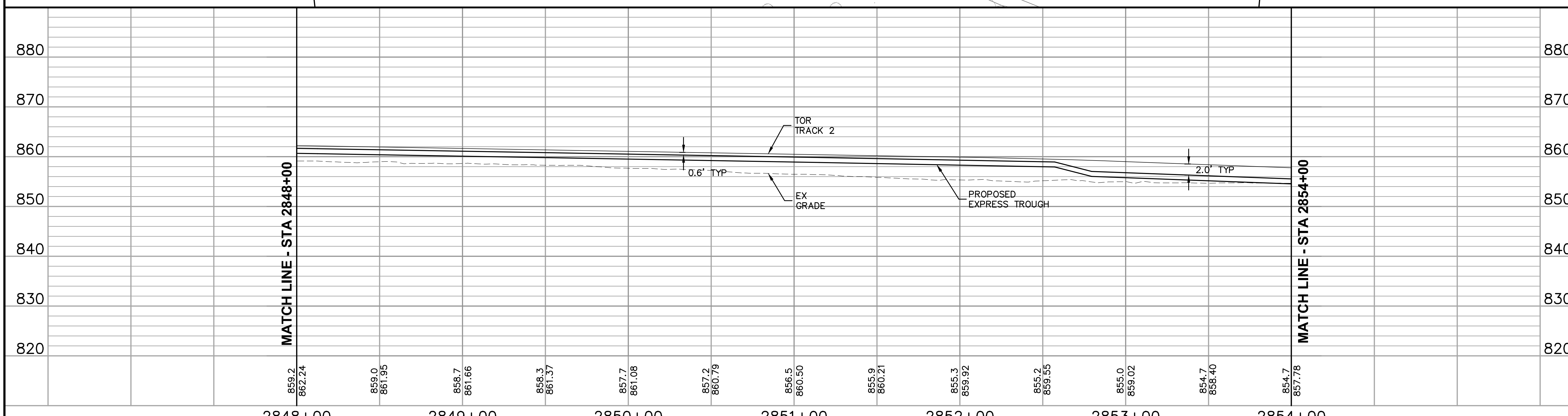

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2848+00 TO STA 2854+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-002

SHEET 233 OF 464

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
IDF-2848-1	2848+20	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2848-2	2848+69	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2849-1	2849+19	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2849-2	2849+68	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2850-1	2850+18	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2850-2	2850+67	23.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2851-1	2851+17	23.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2851-2	2851+66	24.8' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2852-1	2852+16	26.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2852-2	2851+65	29.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2853-1	2853+14	33.2' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2853-2	2853+64	36.3' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
PF-2853	2853+87	81.9' L	SWE-DTL-SIG-006	FREIGHT FLASHER FOUNDATION AND STUB UP
JB-2853	2853+65	63.8' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2844	SC-HH-2844	SC-MH-2855	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2855-11	SC-MH-2855-2	PF-2853	1-4	STU-DTL-001	SC CONDUIT
SC-2855-20	SC-MH-2855-2	JB-2853	1-2	STU-DTL-001	SC CONDUIT
ID-2847-2	IDF-2847-2	IDF-2848-1	1-2	STU-DTL-001	ID CONDUIT
ID-2848-1	IDF-2848-1	IDF-2848-2	1-2	STU-DTL-001	ID CONDUIT
ID-2848-2	IDF-2848-2	IDF-2849-1	1-2	STU-DTL-001	ID CONDUIT
ID-2849-1	IDF-2849-1	IDF-2849-2	1-2	STU-DTL-001	ID CONDUIT
ID-2849-2	IDF-2849-2	IDF-2850-1	1-2	STU-DTL-001	ID CONDUIT
ID-2850-1	IDF-2850-1	IDF-2850-2	1-2	STU-DTL-001	ID CONDUIT
ID-2850-2	IDF-2850-2	IDF-2851-1	1-2	STU-DTL-001	ID CONDUIT
ID-2851-1	IDF-2851-1	IDF-2851-2	1-2	STU-DTL-001	ID CONDUIT
ID-2851-2	IDF-2851-2	IDF-2852-1	1-2	STU-DTL-001	ID CONDUIT
ID-2852-1	IDF-2852-1	IDF-2852-2	1-2	STU-DTL-001	ID CONDUIT
ID-2852-2	IDF-2852-2	IDF-2853-1	1-2	STU-DTL-001	ID CONDUIT
ID-2853-1	IDF-2853-1	IDF-2853-2	1-2	STU-DTL-001	ID CONDUIT

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90% SUBMISSION - 01/22/16

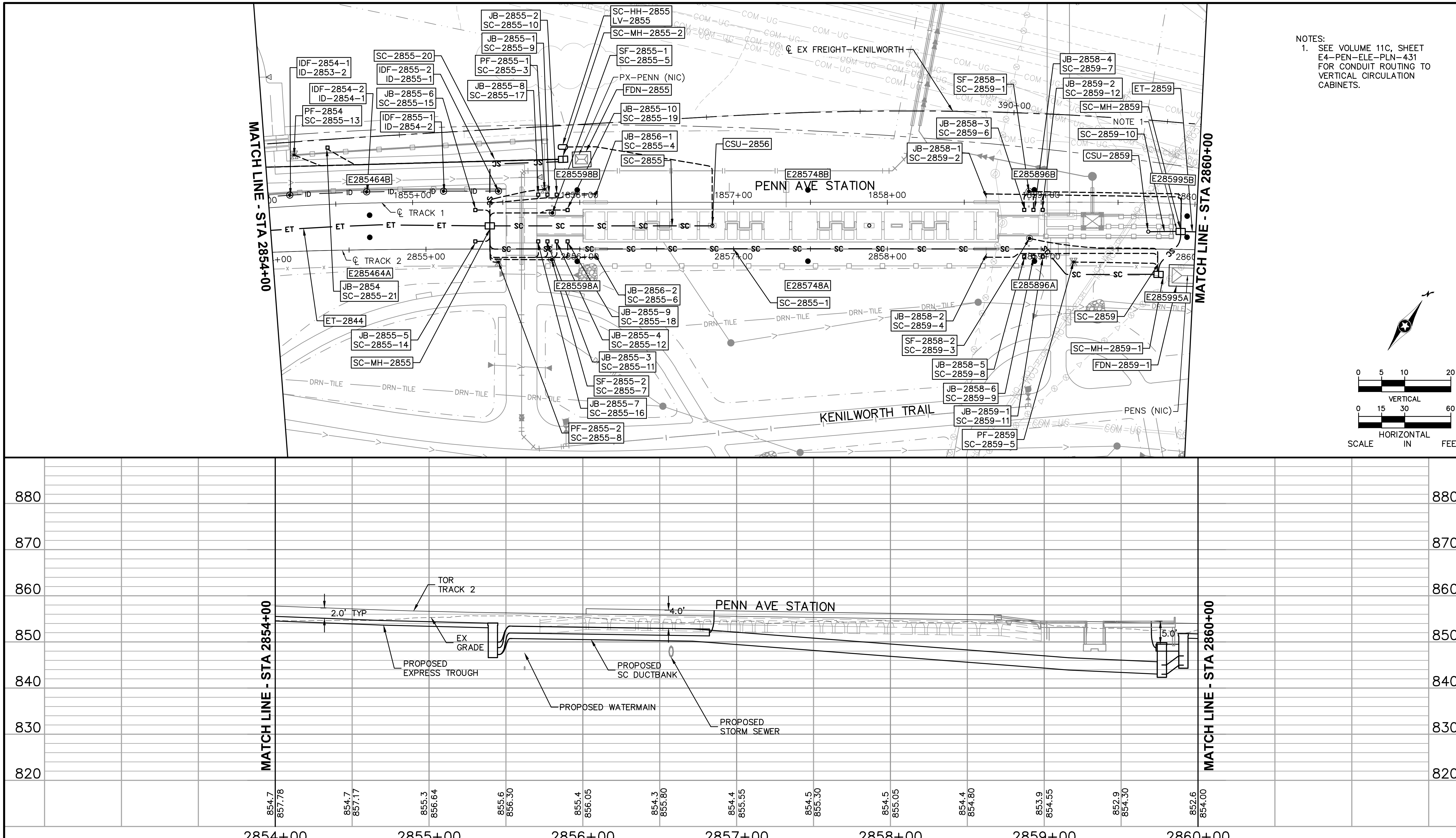
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2848+00 TO STA 2854+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-002



NOTES:
1. SEE VOLUME 11C, SHEET E4-PEN-ELE-PLN-431 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2854+00 TO STA 2860+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-003

SHEET 235 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2855	2855+42	15.1' L	SWE-DTL-003	SC MANHOLE
SC-MH-2855-2	2855+89	58.4' L	SWE-DTL-003	SC MANHOLE
SC-MH-2859	2859+91	11.6' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2859-1	2859+77	16.4' R	SWE-DTL-003	SC MANHOLE
FDN-2855	2856+01	58.4' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2859-1	2860+00	17.0' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
SF-2855-1	2855+82	23.5' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2855-2	2855+82	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2858-1	2858+92	37.4' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2858-2	2858+92	6.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
PF-2854	2854+16	62.7' L	SWE-DTL-SIG-006	FREIGHT FLASHER FOUNDATION AND STUB UP
PF-2855-1	2855+77	38.9' L	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
PF-2855-2	2855+47	8.5' R	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
PF-2859	2859+21	8.5' R	SWE-DTL-SIG-006	PEDESTRAIN FLASHER FOUNDATION AND STUB UP
JB-2856-1	2856+10	33.3' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2856-2	2856+10	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2858-1	2858+64	33.2' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2858-2	2858+64	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2855-1	2855+79	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2855-2	2855+85	35.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2855-3	2855+79	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2855-4	2855+85	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2855-5	2855+32	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2855-6	2855+32	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2855-7	2855+73	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2855-8	2855+73	35.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2855-9	2855+92	5.0' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2855-10	2855+92	25.4' L	1/SWE-DTL-SIG-024	GRADE CROSSING JUNCTION BOX
JB-2858-3	2858+89	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2858-4	2858+95	25.4' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2858-5	2858+89	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2858-6	2858+95	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2859-1	2859+01	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2859-2	2859+01	25.4' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
IDF-2854-1	2854+13	36.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2854-2	2854+62	37.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2855-1	2855+12	37.7' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
IDF-2855-2	2855+47	37.6' L	SWE-DTL-SIG-025 & 026	FREIGHT INTRUSION DETECTION FOUNDATION AND JUNCTION BOX
CSU-2856	2856+86	15.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2859	2859+69	11.3' L	3/SWE-DTL-012	VERTICAL CIRCULATION CONDUIT STUB UP
JB-2854	2854+37	66.9' L	1/SWE-DTL-SIG-024	FREIGHT TRACK CIRCUIT JUNCTION BOX
SC-HH-2855	2855+89	66.4' L	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2844	SC-HH-2844	SC-MH-2855	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2859	SC-MH-2859	SC-MH-2877	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2855	SC-MH-2855	CSU-2856	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2855-1	SC-MH-2855	SC-MH-2859-1	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2856	CSU-2856	CSU-2859	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2859-10	CSU-2859	SC-MH-2859	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2855-20	SC-MH-2855	SC-MH-2855-2	6-4	6/STU-DTL-001	SC DUCTBANK
SC-2859	SC-MH-2859-1	SC-MH-2859	9-4	9/STU-DTL-001	SC DUCTBANK
SC-2855-3	SC-MH-2855	PF-2855-1	1-4	STU-DTL-001	SC CONDUIT
SC-2855-4	SC-MH-2855	JB-2856-1	1-2	STU-DTL-001	SC CONDUIT
SC-2855-5	SC-MH-2855	SF-2855-1	1-2	STU-DTL-001	SC CONDUIT
SC-2855-6	SC-MH-2855	JB-2856-2	1-2	STU-DTL-001	SC CONDUIT
SC-2855-7	SC-MH-2855	SF-2855-2	1-2	STU-DTL-001	SC CONDUIT
SC-2855-8	SC-MH-2855	PF-2855-2	1-4	STU-DTL-001	SC CONDUIT
SC-2855-9	SC-MH-2855	JB-2855-1	1-2	STU-DTL-001	SC CONDUIT
SC-2855-10	SC-MH-2855	JB-2855-2	1-2	STU-DTL-001	SC CONDUIT
SC-2855-11	SC-MH-2855	JB-2855-3	1-2	STU-DTL-001	SC CONDUIT
SC-2855-12	SC-MH-2855	JB-2855-4	1-2	STU-DTL-001	SC CONDUIT
SC-2855-13	SC-MH-2855-2	PF-2854	1-4	STU-DTL-001	SC CONDUIT
SC-2855-14	SC-MH-2855	JB-2855-5	1-2	STU-DTL-001	SC CONDUIT
SC-2855-15	SC-MH-2855	JB-2855-6	1-2	STU-DTL-001	SC CONDUIT
SC-2855-16	SC-MH-2855	JB-2855-7	1-2	STU-DTL-001	SC CONDUIT
SC-2855-17	SC-MH-2855	JB-2855-8	1-2	STU-DTL-001	SC CONDUIT
SC-2855-18	SC-MH-2855	JB-2855-9	1-2	STU-DTL-001	SC CONDUIT
SC-2855-19	SC-MH-2855	JB-2855-10	1-2	STU-DTL-001	SC CONDUIT
SC-2855-20	SC-MH-2855	JB-2853	1-2	STU-DTL-001	SC CONDUIT
SC-2855-21	SC-MH-2855	JB-2854	1-2	STU-DTL-001	SC CONDUIT
SC-2859-1	SC-MH-2859	SF-2858-1	1-2	STU-DTL-001	SC CONDUIT
SC-2859-2	SC-MH-2859	JB-2858-1	1-2	STU-DTL-001	SC CONDUIT
SC-2859-3	SC-MH-2859	SF-2858-2	1-2	STU-DTL-001	SC CONDUIT
SC-2859-4	SC-MH-2859	JB-2858-2	1-2	STU-DTL-001	SC CONDUIT
SC-2859-5	SC-MH-2859	PF-2859	1-4	STU-DTL-001	SC CONDUIT
SC-2859-6	SC-MH-2859	JB-2858-3	1-2	STU-DTL-001	SC CONDUIT
SC-2859-7	SC-MH-2859	JB-2858-4	1-2	STU-DTL-001	SC CONDUIT
SC-2859-8	SC-MH-2859	JB-2858-5	1-2	STU-DTL-001	SC CONDUIT
SC-2859-9	SC-MH-2859	JB-2858-6	1-2	STU-DTL-001	SC CONDUIT
SC-2859-11	SC-MH-2859	JB-2859-1	1-2	STU-DTL-001	SC CONDUIT
SC-2859-12	SC-MH-2859	JB-2859-2	1-2	STU-DTL-001	SC CONDUIT
ID-2853-2	IDF-2853-2	IDF-2854-1	1-2	STU-DTL-001	ID CONDUIT
ID-2854-1	IDF-2854-1	IDF-2854-2	1-2	STU-DTL-001	ID CONDUIT
ID-2854-2	IDF-2854-2	IDF-2855-1	1-2	STU-DTL-001	ID CONDUIT
ID-2855-1	IDF-2855-1	IDF-2855-2	1-2	STU-DTL-001	ID CONDUIT
LV-2855	SC-HH-2855	CSU-2856	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 11C, SHEET E4-PEN-ELE-PLN-431 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2854+00 TO STA 2860+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-003

SHEET 236 OF 464

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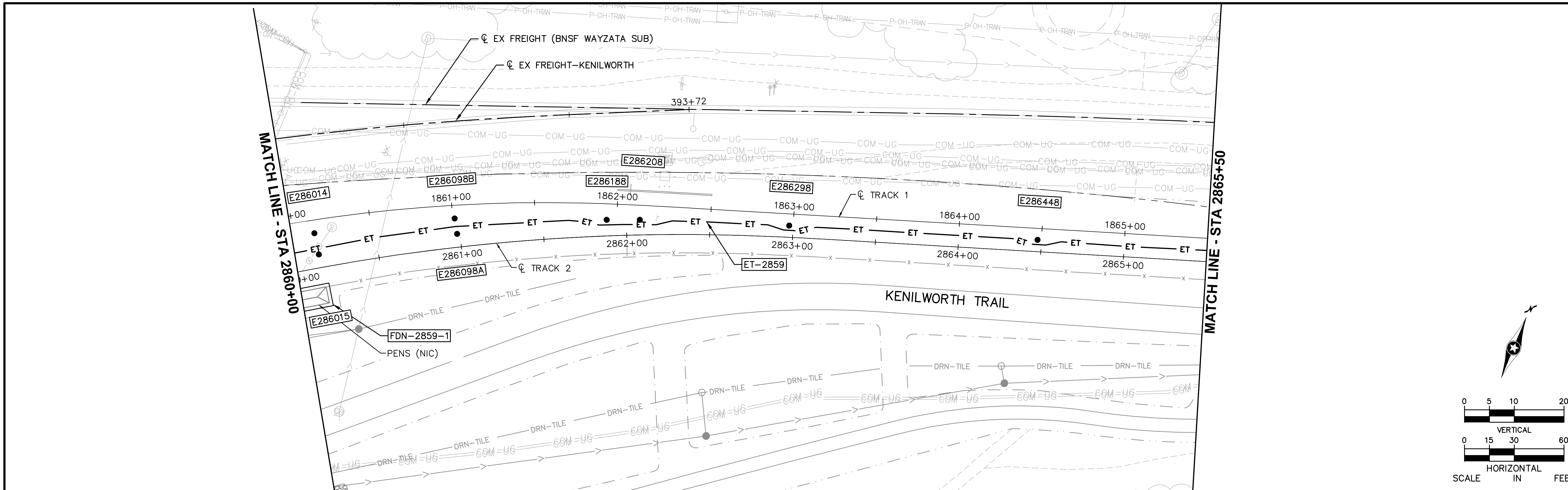

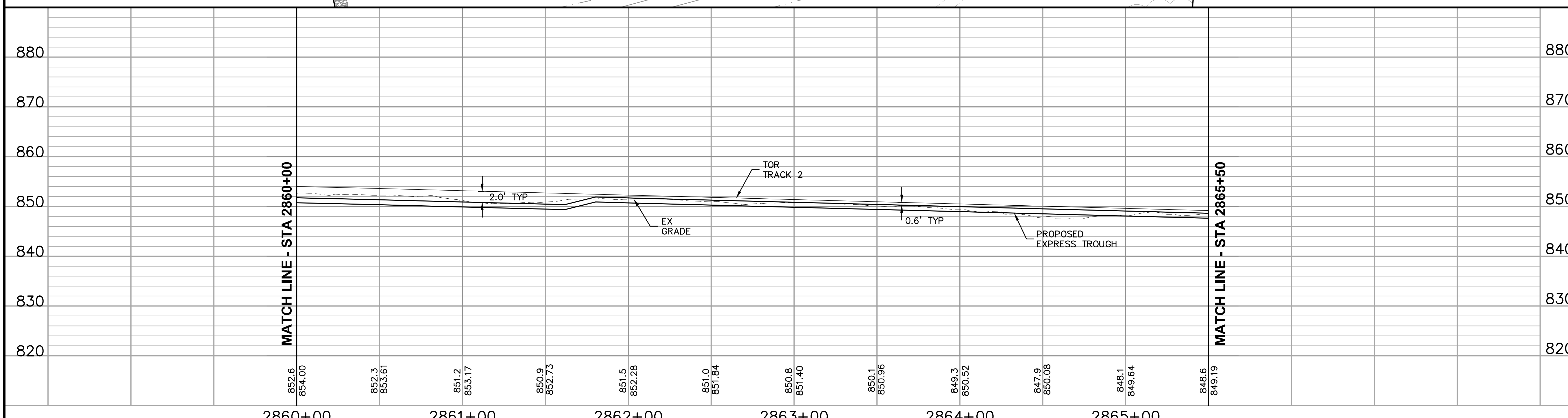

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2860+00 TO STA 2865+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-004

SHEET 237 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
FDN-2859-1	2860+00	17.0' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2859	SC-MH-2859	SC-MH-2877	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2860+00 TO STA 2865+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-004

SHEET 238 OF 464

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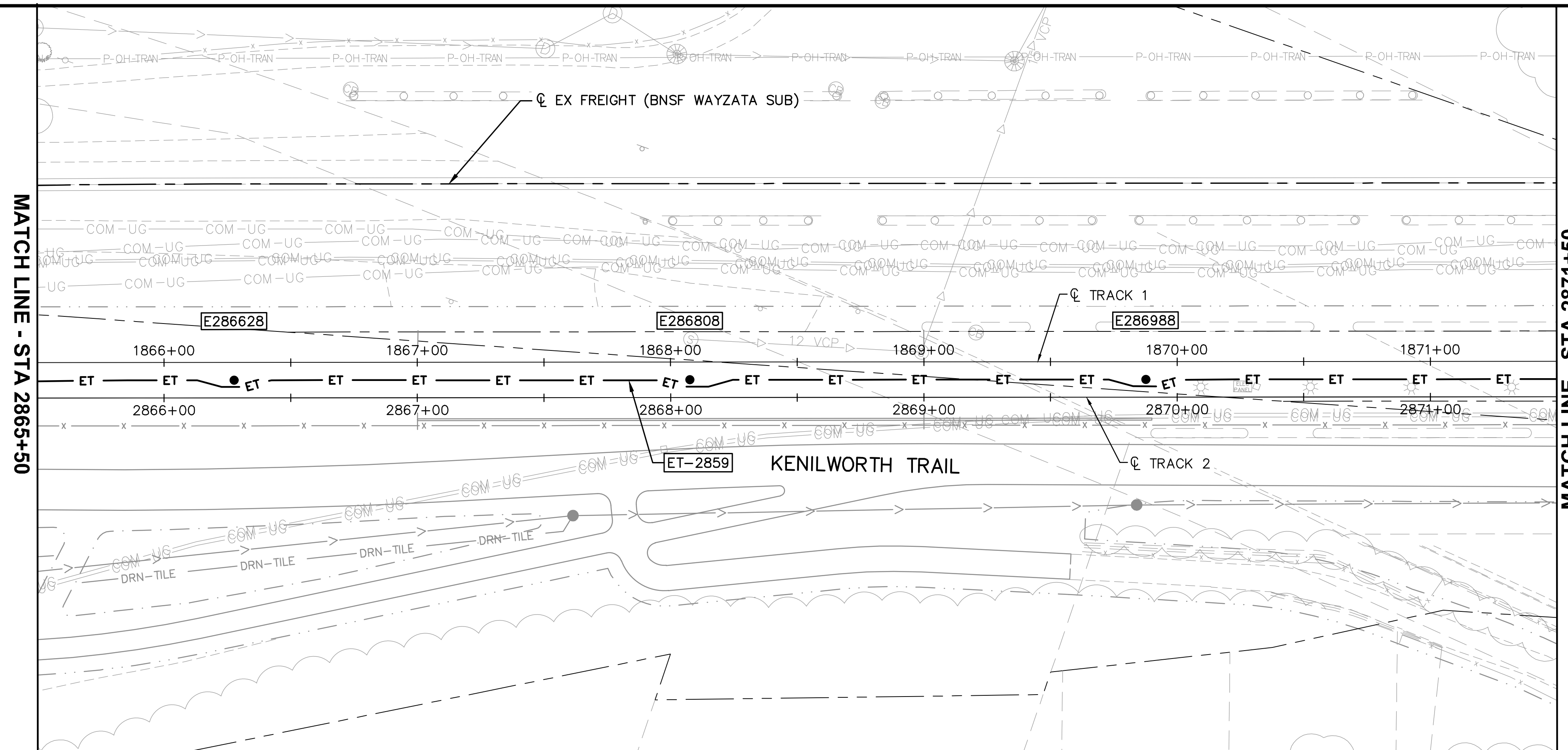

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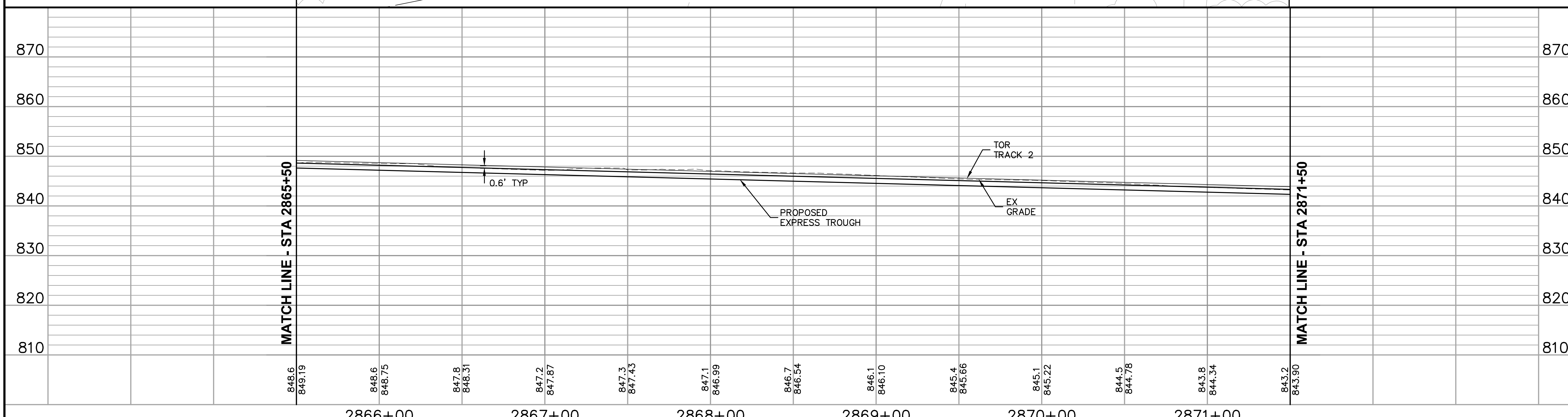

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2865+50 TO STA 2871+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-005

SHEET 239 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2859	SC-MH-2859	SC-MH-2877	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

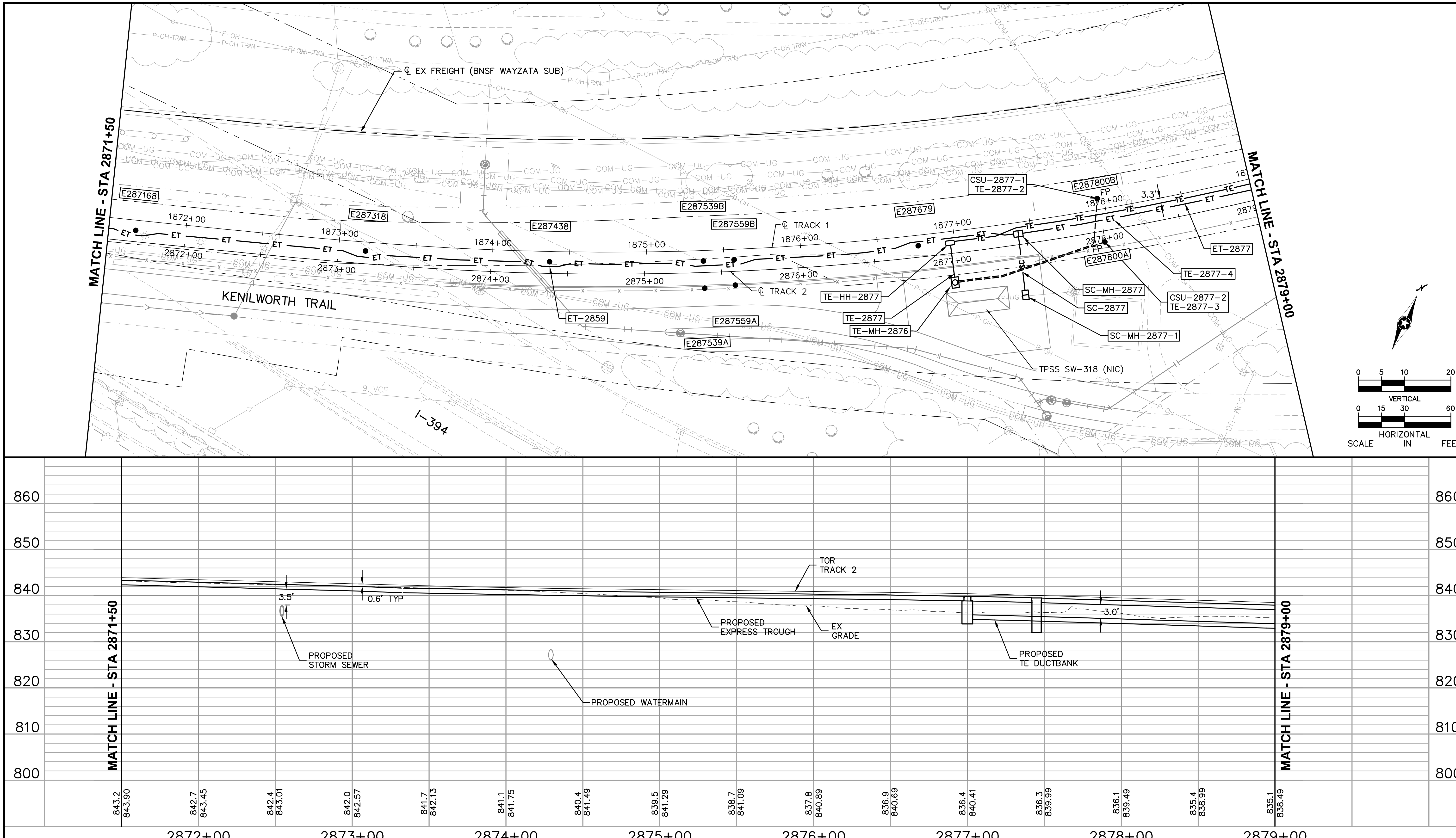
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2865+50 TO STA 2871+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-005

SHEET 240 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2871+50 TO STA 2879+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-006

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2877	2877+45	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2877-1	2877+44	33.0' R	SWE-DTL-003	SC MANHOLE
TE-MH-2876	2877+00	7.0' L	SWE-DTL-002	TE MANHOLE
CSU-2877-1	2878+00	18.9' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2877-2	2878+00	4.6' R	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
TE-HH-2877	2876+80	32.5' R	SWE-DTL-004	TE HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2859	SC-MH-2859	SC-MH-2877	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2877	SC-MH-2877	SC-MH-2881	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2877	SC-MH-2877	SC-MH-2877-1	2-4	STU-DTL-001	SC CONDUIT
TE-2877	TE-HH-2877	TE-MH-2876	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2877-4	TE-HH-2877	TE-MH-2881	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2877-2	TE-MH-2876	CSU-2877-1	2-4	STU-DTL-002	TE CONDUIT
TE-2877-3	TE-MH-2876	CSU-2877-2	2-4	STU-DTL-002	TE CONDUIT

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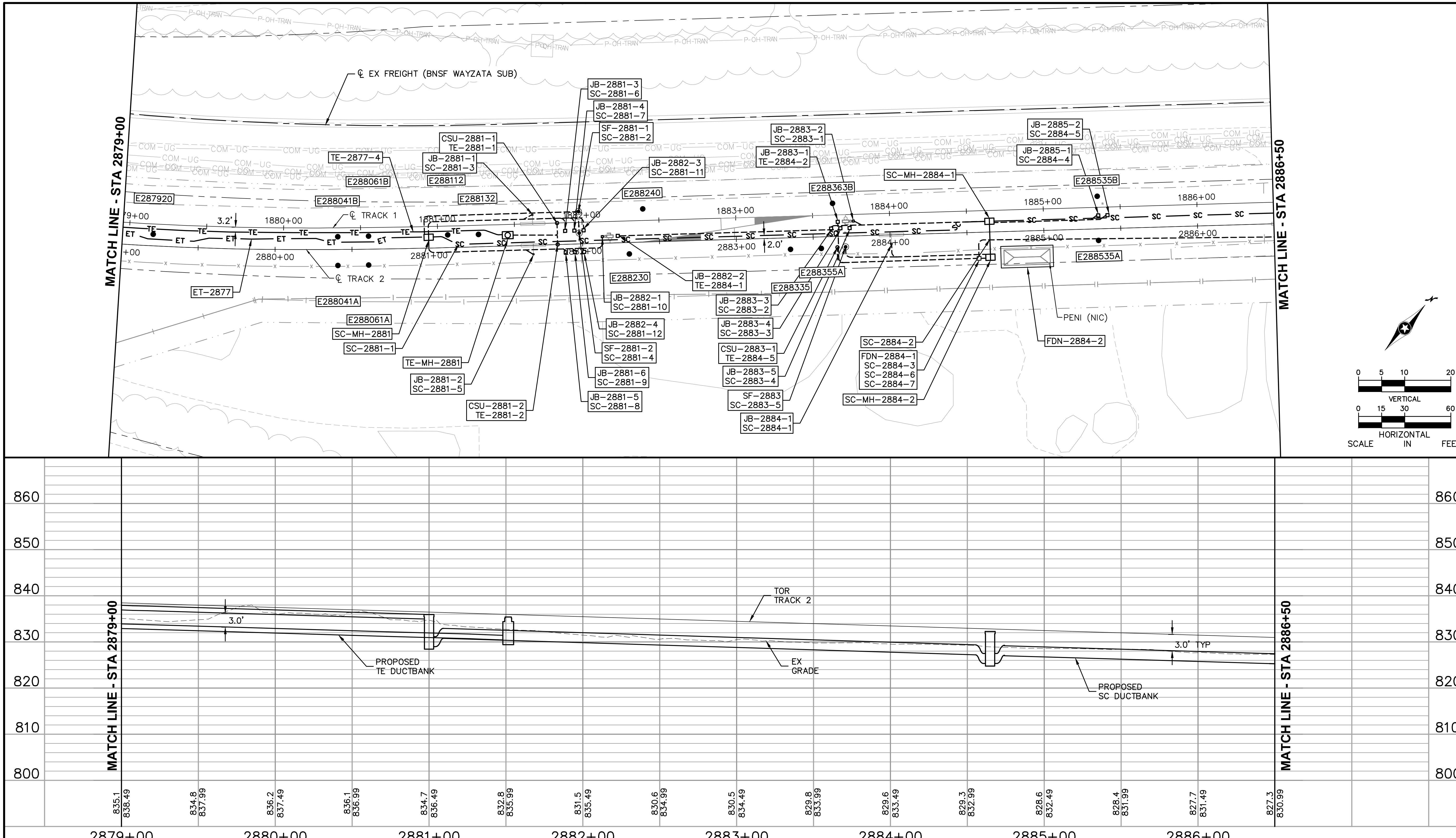
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2871+50 TO STA 2879+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-006



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2879+00 TO STA 2886+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-007

SHEET 243 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2881	2881+00	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2883	2883+83	9.2' R	SWE-DTL-003	SC MANHOLE
SC-MH-2884-1	2884+65	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2884-2	2884+65	16.4' R	SWE-DTL-003	SC MANHOLE
FDN-2884-1	2883+75	17.2' R	SWE-DTL-SIG-016	SWITCH HEATER CASE FOUNDATION AND STUB UP
FDN-2884-2	2884+06	17.0' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
SF-2881-1	2881+91	21.1' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2881-2	2881+91	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2883			SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2881-1	2881+61	8.1' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2881-2	2881+60	5.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2881-3	2881+88	9.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2881-4	2881+94	9.0' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2881-5	2881+88	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2881-6	2881+94	5.0' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2882-1	2882+16	9.3' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2882-2	2882+26	9.1' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2882-3	2882+01	8.8' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2882-4	2882+01	5.3' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2883-1	2883+69	4.9' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2883-2	2883+79	4.7' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2883-3	2883+62	5.2' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2883-4	2883+68	5.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2883-5	2883+74	5.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2884-1	2884+01	5.8' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2885-1	2885+36	8.7' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2885-2	2885+42	8.7' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
CSU-2881-1	2881+84	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2881-2	2881+84	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2883-1	2883+68	7.0' R	3/SWE-DTL-014	SWITCH HEATER OCS POLE CONDUIT STUB UP
TE-MH-2881	2881+51	7.0' L	SWE-DTL-002	TE MANHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2877	SC-MH-2877	SC-MH-2881	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2881-1	SC-MH-2881	SC-MH-2884-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2884-2	SC-MH-2884-2	SC-MH-2884-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2884-4	SC-MH-2884-1	SC-MH-2886-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2881-2	SC-MH-2881	SF-2881-1	1-2	STU-DTL-001	SC CONDUIT
SC-2881-3	SC-MH-2881	JB-2881-1	1-2	STU-DTL-001	SC CONDUIT
SC-2881-4	SC-MH-2881	SF-2881-2	1-2	STU-DTL-001	SC CONDUIT
SC-2881-5	SC-MH-2881	JB-2881-2	1-2	STU-DTL-001	SC CONDUIT
SC-2881-6	SC-MH-2881	JB-2881-3	1-2	STU-DTL-001	SC CONDUIT
SC-2881-7	SC-MH-2881	JB-2881-4	1-2	STU-DTL-001	SC CONDUIT
SC-2881-8	SC-MH-2881	JB-2881-5	1-2	STU-DTL-001	SC CONDUIT
SC-2881-9	SC-MH-2881	JB-2881-6	1-2	STU-DTL-001	SC CONDUIT
SC-2881-10	SC-MH-2881	JB-2882-1	1-3	STU-DTL-001	SC CONDUIT
SC-2881-11	SC-MH-2881	JB-2882-3	1-2	STU-DTL-001	SC CONDUIT
SC-2881-12	SC-MH-2881	JB-2882-4	1-2	STU-DTL-001	SC CONDUIT
SC-2883-1	SC-MH-2884-1	JB-2883-2	1-3	STU-DTL-001	SC CONDUIT
SC-2883-2	SC-MH-2884-1	JB-2883-3	1-2	STU-DTL-001	SC CONDUIT
SC-2883-3	SC-MH-2884-1	JB-2883-4	1-2	STU-DTL-001	SC CONDUIT
SC-2883-4	SC-MH-2884-1	JB-2883-5	1-2	STU-DTL-001	SC CONDUIT
SC-2883-5	SC-MH-2884-1	SF-2883	1-2	STU-DTL-001	SC CONDUIT
SC-2884-1	SC-MH-2884-2	JB-2884-1	1-2	STU-DTL-001	SC CONDUIT
SC-2884-3	SC-MH-2884-2	FDN-2884-1	1-4	STU-DTL-001	SC CONDUIT
SC-2884-4	SC-MH-2884-1	JB-2885-1	1-2	STU-DTL-001	SC CONDUIT
SC-2884-5	SC-MH-2884-1	JB-2885-2	1-2	STU-DTL-001	SC CONDUIT
SC-2884-6	SC-MH-2884-2	FDN-2884-1	1-3	STU-DTL-001	SC CONDUIT
SC-2884-7	SC-MH-2884-2	FDN-2884-1	4-2	STU-DTL-001	SC CONDUIT
TE-2877-4	TE-HH-2877	TE-MH-2881	2-5	2A/STU-DTL-002	TE DUCTBANK
TE-2881-1	TE-MH-2881	CSU-2881-1	1-5	STU-DTL-002	TE CONDUIT
TE-2881-2	TE-MH-2881	CSU-2881-2	1-5	STU-DTL-002	TE CONDUIT
TE-2884-1	FDN-2884-1	JB-2882-2	1-2	STU-DTL-002	TE CONDUIT
TE-2884-2	FDN-2884-1	JB-2883-1	1-2	STU-DTL-002	TE CONDUIT
TE-2884-5	FDN-2884-1	CSU-2883-1	1-4	STU-DTL-002	TE CONDUIT

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90% SUBMISSION - 01/22/16

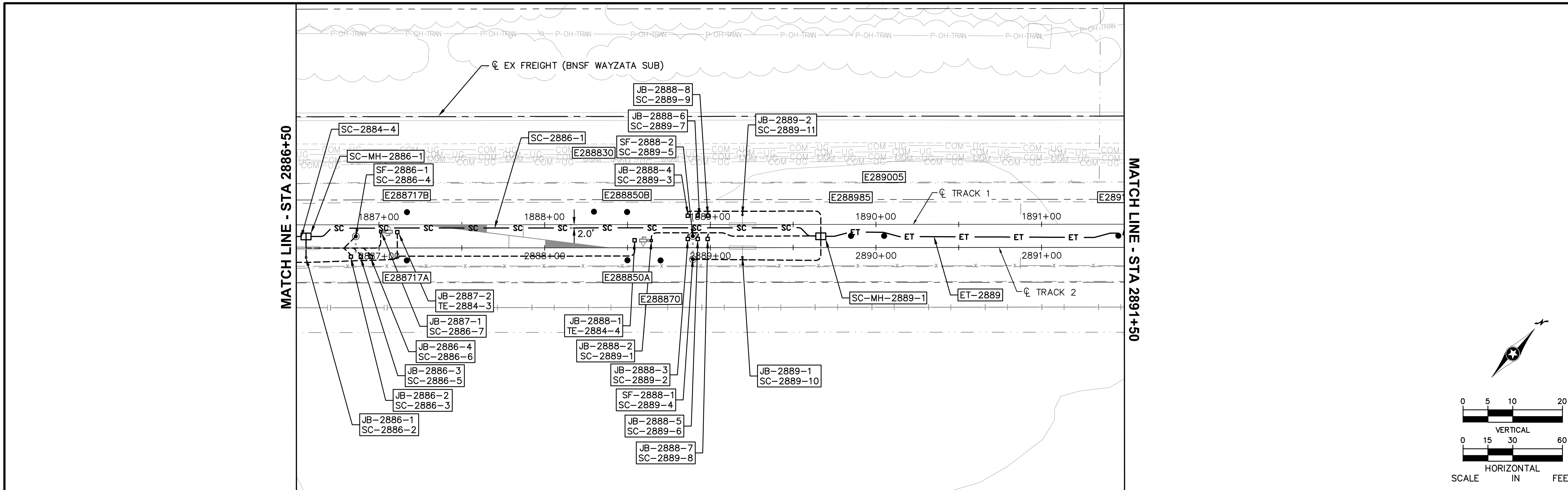
METROPOLITAN COUNCIL

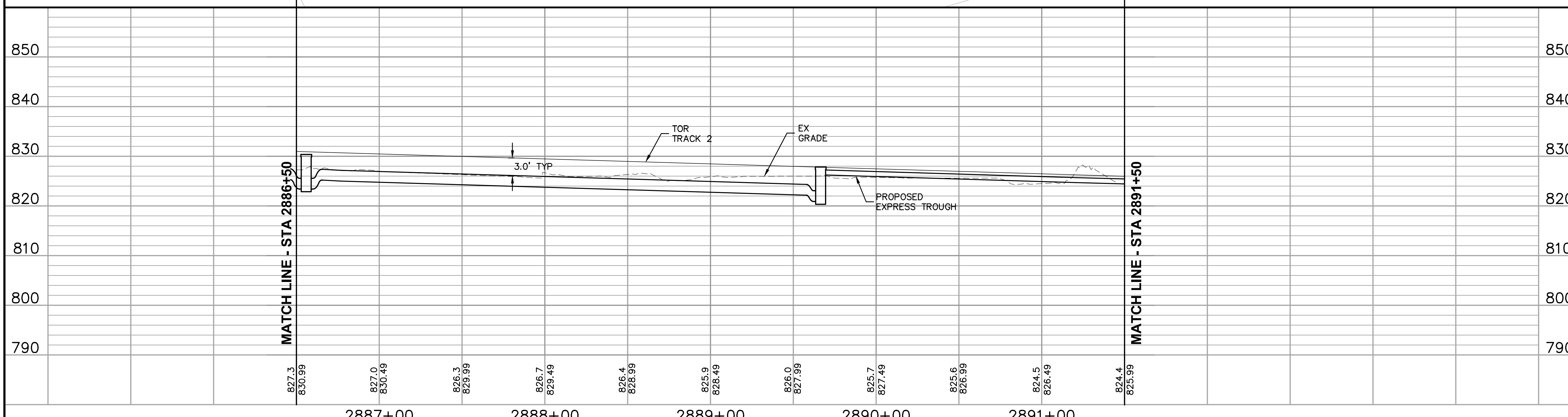
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2879+00 TO STA 2886+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-007





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2886+50 TO STA 2891+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-008

SHEET 245 OF 464

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SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2886-1	2886+56	7.00' L	SWE-DTL-003	SC MANHOLE
SC-MH-2889-1	2889+67	6.8' L	SWE-DTL-003	SC MANHOLE
JB-2886-1	2886+56	5.8' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2886-2	2886+83	5.2' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2886-3	2886+89	5.2' R	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2886-4	2886+95	5.2' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2887-1	2887+01	9.7' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2887-2	2887+11	9.5' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2888-1	2888+54	4.5' L	2/SWE-DTL-SIG-007	SWITCH HEATER JUNCTION BOX
JB-2888-2	2888+64	4.3' L	SWE-DTL-SIG-019	SWITCH MACHINE JUNCTION BOX
JB-2888-3	2888+86	5.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2888-4	2888+86	19.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2888-5	2888+92	5.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2888-6	2888+92	19.2' L	SWE-DTL-SIG-017	SINGLE IMPEDANCE BOND JUNCTION BOX
JB-2888-7	2888+98	5.2' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2888-8	2888+98	19.2' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2889-1	2889+19	5.8' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2889-2	2889+19	19.8' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
SF-2888-1	2888+89	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2888-2	2888+89	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2889	SC-MH-2889-1	SC-MH-2897	TYPE 1	1/SWE-DTL-010	EXPRESS TROUGH
SC-2884-4	SC-MH-2884-1	SC-MH-2886-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2886-1	SC-MH-2886-1	SC-MH-2889-1	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
TE-2884-3	FDN-2884-1	JB-2887-2	1-2	STU-DTL-002	TE CONDUIT
TE-2884-4	FDN-2884-1	JB-2888-1	1-2	STU-DTL-002	TE CONDUIT
SC-2886-2	SC-MH-2886-1	JB-2886-1	1-2	STU-DTL-001	SC CONDUIT
SC-2886-3	SC-MH-2886-1	JB-2886-2	1-2	STU-DTL-001	SC CONDUIT
SC-2886-4	SC-MH-2886-1	SF-2886-1	1-2	STU-DTL-001	SC CONDUIT
SC-2886-5	SC-MH-2886-1	JB-2886-3	1-2	STU-DTL-001	SC CONDUIT
SC-2886-6	SC-MH-2886-1	JB-2886-4	1-2	STU-DTL-001	SC CONDUIT
SC-2886-7	SC-MH-2886-1	JB-2887-1	1-3	STU-DTL-001	SC CONDUIT
SC-2889-1	SC-MH-2889-1	JB-2888-2	1-3	STU-DTL-001	SC CONDUIT
SC-2889-2	SC-MH-2889-1	JB-2888-3	1-2	STU-DTL-001	SC CONDUIT
SC-2889-3	SC-MH-2889-1	JB-2888-4	1-2	STU-DTL-001	SC CONDUIT
SC-2889-4	SC-MH-2889-1	SF-2888-1	1-2	STU-DTL-001	SC CONDUIT
SC-2889-5	SC-MH-2889-1	SF-2888-2	1-2	STU-DTL-001	SC CONDUIT
SC-2889-6	SC-MH-2889-1	JB-2888-5	1-2	STU-DTL-001	SC CONDUIT
SC-2889-7	SC-MH-2889-1	JB-2888-6	1-2	STU-DTL-001	SC CONDUIT
SC-2889-8	SC-MH-2889-1	JB-2888-7	1-2	STU-DTL-001	SC CONDUIT
SC-2889-9	SC-MH-2889-1	JB-2888-8	1-2	STU-DTL-001	SC CONDUIT
SC-2889-10	SC-MH-2889-1	JB-2889-1	1-2	STU-DTL-001	SC CONDUIT
SC-2889-11	SC-MH-2889-1	JB-2889-2	1-2	STU-DTL-001	SC CONDUIT

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METROPOLITAN COUNCIL

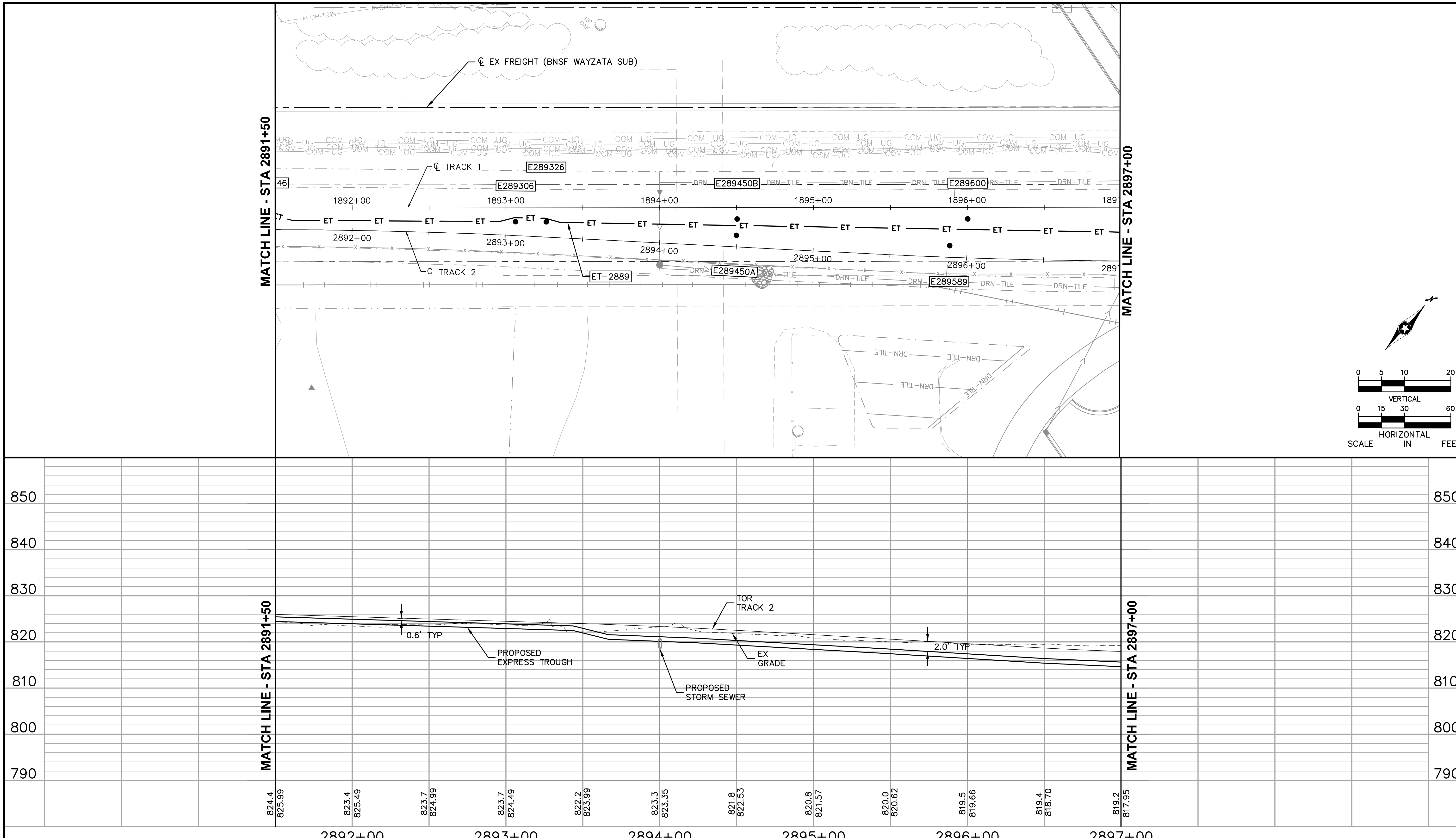
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2886+50 TO STA 2891+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-008

SHEET 246 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2891+50 TO STA 2897+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-009

SHEET 247 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2889	SC-MH-2889-1	SC-MH-2897	TYPE 1	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

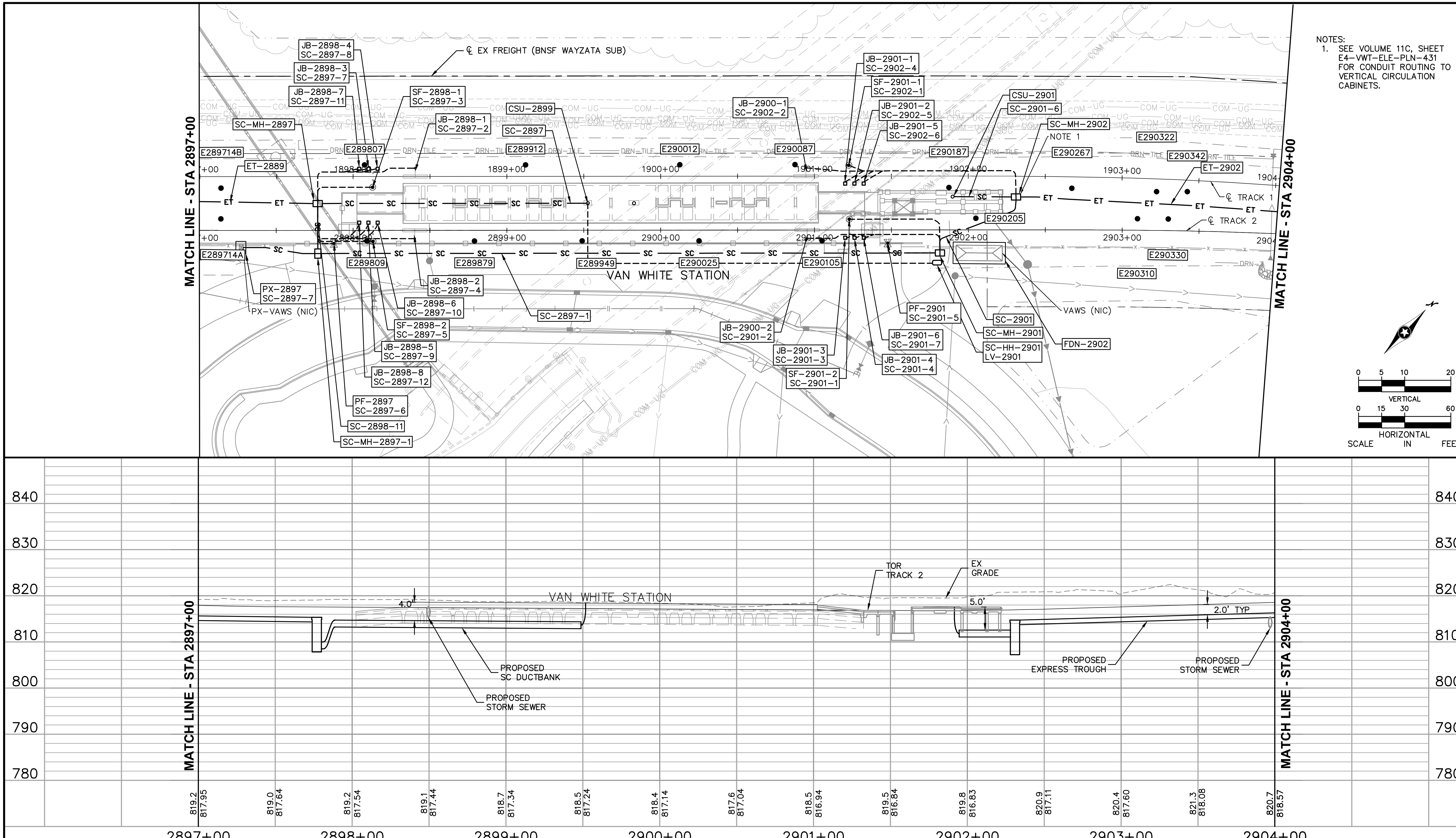
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2891+50 TO STA 2897+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-009

SHEET 248 OF 464



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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2897+00 TO STA 2904+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-010

SHEET 249 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2897	2897+77	17.5' L	SWE-DTL-003	SC MANHOLE
SC-MH-2897-1			SWE-DTL-003	SC MANHOLE
SC-MH-2901	2901+82	15.0' R	SWE-DTL-003	SC MANHOLE
SC-MH-2902	2902+31	21.4' L	SWE-DTL-003, NOTE 1	SC MANHOLE
FDN-2902	2902+07	15.0' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
PX-2897	2897+27	11.2' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2897	2897+88	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2901	2901+48	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2898-1	2898+13	28.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2898-2	2898+13	7.2' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2901-1	2901+22	42.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2901-2	2901+23	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2898-1	2898+40	38.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2898-2	2898+40	3.1' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2898-3	2898+10	40.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2898-4	2898+16	40.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2898-5	2898+10	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2898-6	2898+16	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2900-1	2900+94	38.1' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2900-2	2900+95	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2901-1	2901+20	30.2' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2901-2	2901+26	30.2' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2901-3	2901+20	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2901-4	2901+26	5.0' R	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
CSU-2899	2899+53	17.5' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2901	2901+90	21.6' L	3/SWE-DTL-012	VERTICAL CIRCULATION CONDUIT STUB UP
JB-2898-7	2898+04	40.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2898-8	2898+04	5.0' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2901-5	2901+90	21.6' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2901-6	2901+26	5.0' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
SC-HH-2901	2901+80	21.3' R	SWE-DTL-005	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2889	SC-MH-2889-1	SC-MH-2897	TYPE 1	1/SWE-DTL-010	EXPRESS TROUGH
ET-2902	SC-MH-2902	SC-HH-2914	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2897	SC-MH-2897	CSU-2899	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2897-1	SC-MH-2897-1	SC-MH-2901	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2899	CSU-2899	CSU-2901	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2901	SC-MH-2901	SC-MH-2902	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2901-6	CSU-2901	SC-MH-2902	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2897-7	SC-MH-2897	PX-2897	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2897-2	SC-MH-2897	JB-2898-1	1-2	STU-DTL-001	SC CONDUIT
SC-2897-3	SC-MH-2897	SF-2898-1	1-2	STU-DTL-001	SC CONDUIT
SC-2897-4	SC-MH-2897	JB-2898-2	1-2	STU-DTL-001	SC CONDUIT
SC-2897-5	SC-MH-2897	SF-2898-2	1-2	STU-DTL-001	SC CONDUIT
SC-2897-6	SC-MH-2897	PF-2897	1-4	STU-DTL-001	SC CONDUIT
SC-2897-7	SC-MH-2897	JB-2898-3	1-2	STU-DTL-001	SC CONDUIT
SC-2897-8	SC-MH-2897	JB-2898-4	1-2	STU-DTL-001	SC CONDUIT
SC-2897-9	SC-MH-2897	JB-2898-5	1-2	STU-DTL-001	SC CONDUIT
SC-2897-10	SC-MH-2897	JB-2898-6	1-2	STU-DTL-001	SC CONDUIT
SC-2897-11	SC-MH-2897	JB-2898-7	1-2	STU-DTL-001	SC CONDUIT
SC-2897-12	SC-MH-2897	JB-2898-8	1-2	STU-DTL-001	SC CONDUIT
SC-2901-1	SC-MH-2901	SF-2901-2	1-2	STU-DTL-001	SC CONDUIT
SC-2901-2	SC-MH-2901	JB-2900-2	1-2	STU-DTL-001	SC CONDUIT
SC-2901-3	SC-MH-2901	JB-2901-3	1-2	STU-DTL-001	SC CONDUIT
SC-2901-4	SC-MH-2901	JB-2901-4	1-2	STU-DTL-001	SC CONDUIT
SC-2901-5	SC-MH-2901	PF-2901	1-4	STU-DTL-001	SC CONDUIT
SC-2901-7	SC-MH-2901	JB-2901-6	1-2	STU-DTL-001	SC CONDUIT
SC-2902-1	SC-MH-2902	SF-2901-1	1-2	STU-DTL-001	SC CONDUIT
SC-2902-2	SC-MH-2902	JB-2900-1	1-2	STU-DTL-001	SC CONDUIT
SC-2902-4	SC-MH-2902	JB-2901-1	1-2	STU-DTL-001	SC CONDUIT
SC-2902-5	SC-MH-2902	JB-2901-2	1-2	STU-DTL-001	SC CONDUIT
SC-2902-6	SC-MH-2902	JB-2901-5	1-2	STU-DTL-001	SC CONDUIT
LV-2901	SC-HH-2901	CSU-2899	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 11C, SHEET E4-VWT-ELE-PLN-431 FOR CONDUIT ROUTING TO VERTICAL CIRCULATION CABINETS.

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METROPOLITAN COUNCIL

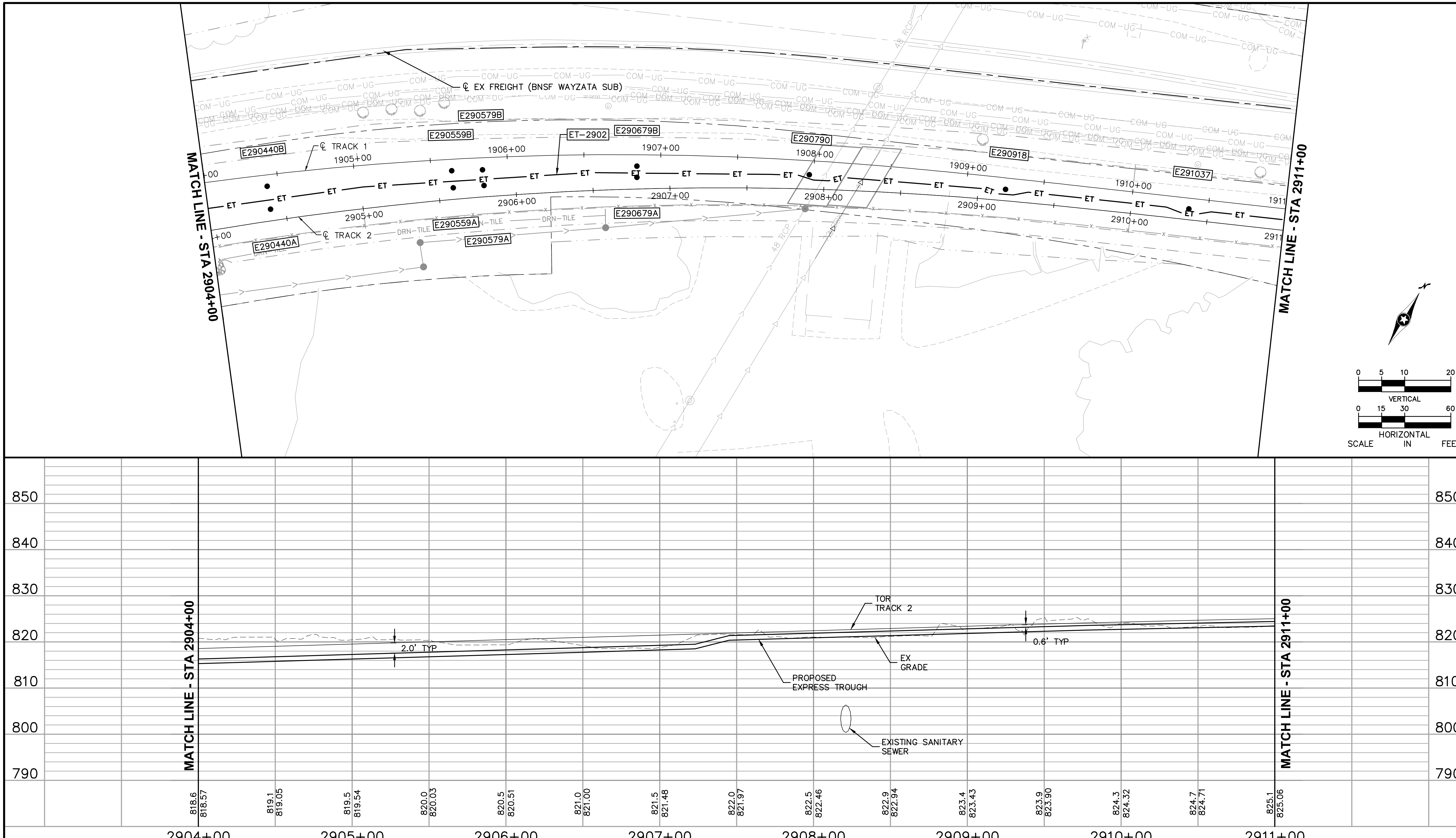
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2897+00 TO STA 2904+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-010

SHEET 250 OF 464



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2904+00 TO STA 2911+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-011

SHEET 251 OF 464

Jan, 18 2016 07:49 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-PRF.dwg By: V-CameroAD

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2902	SC-MH-2902	SC-HH-2921	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

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METROPOLITAN COUNCIL

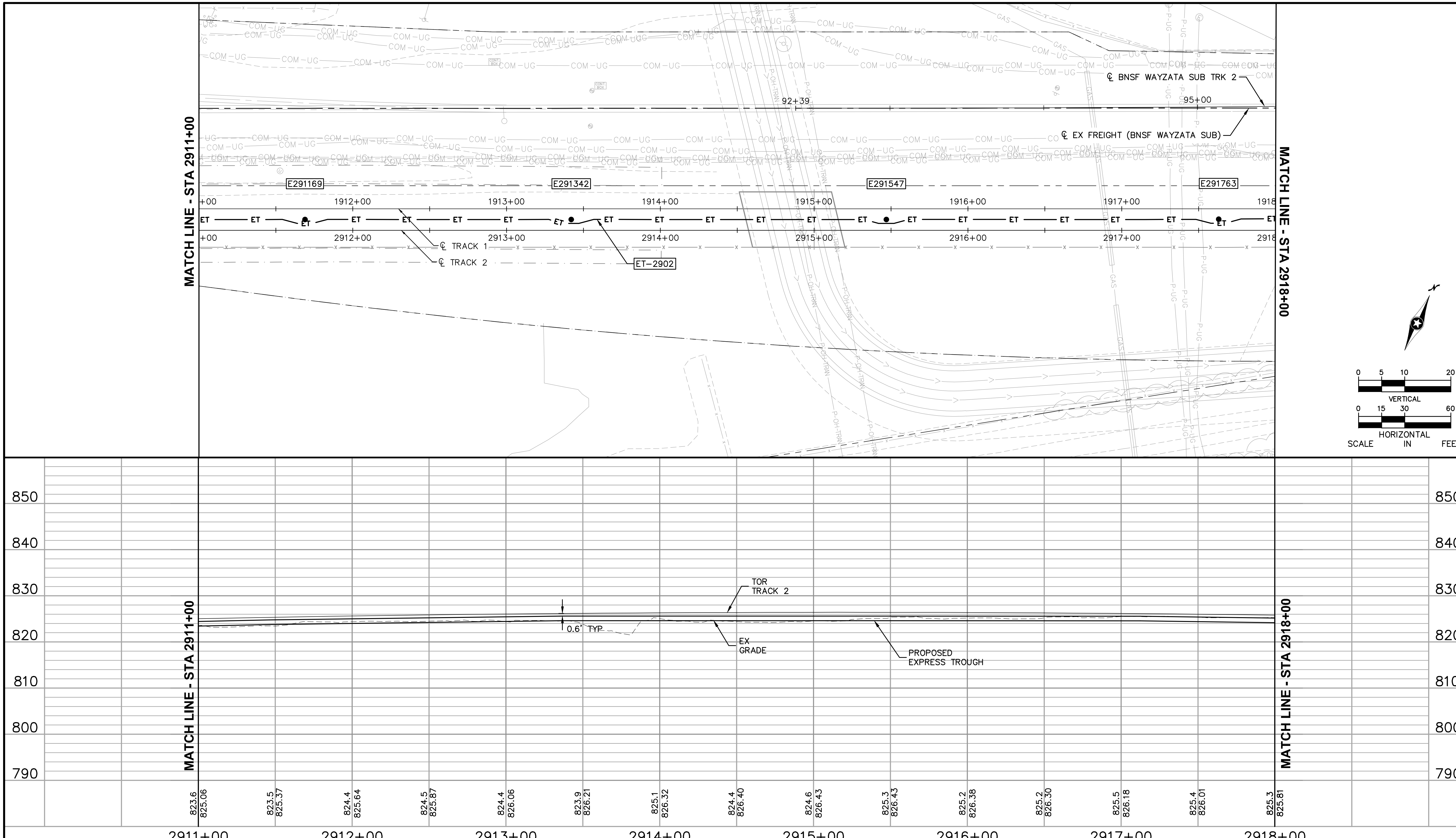
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2904+00 TO STA 2911+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-011

SHEET 252 OF 464



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AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2911+00 TO STA 2918+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-012

SHEET 253 OF 464

Jan, 18 2016 07:51 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-PRF.dwg By: V-CameroAD

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2902	SC-MH-2902	SC-MH-2921	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

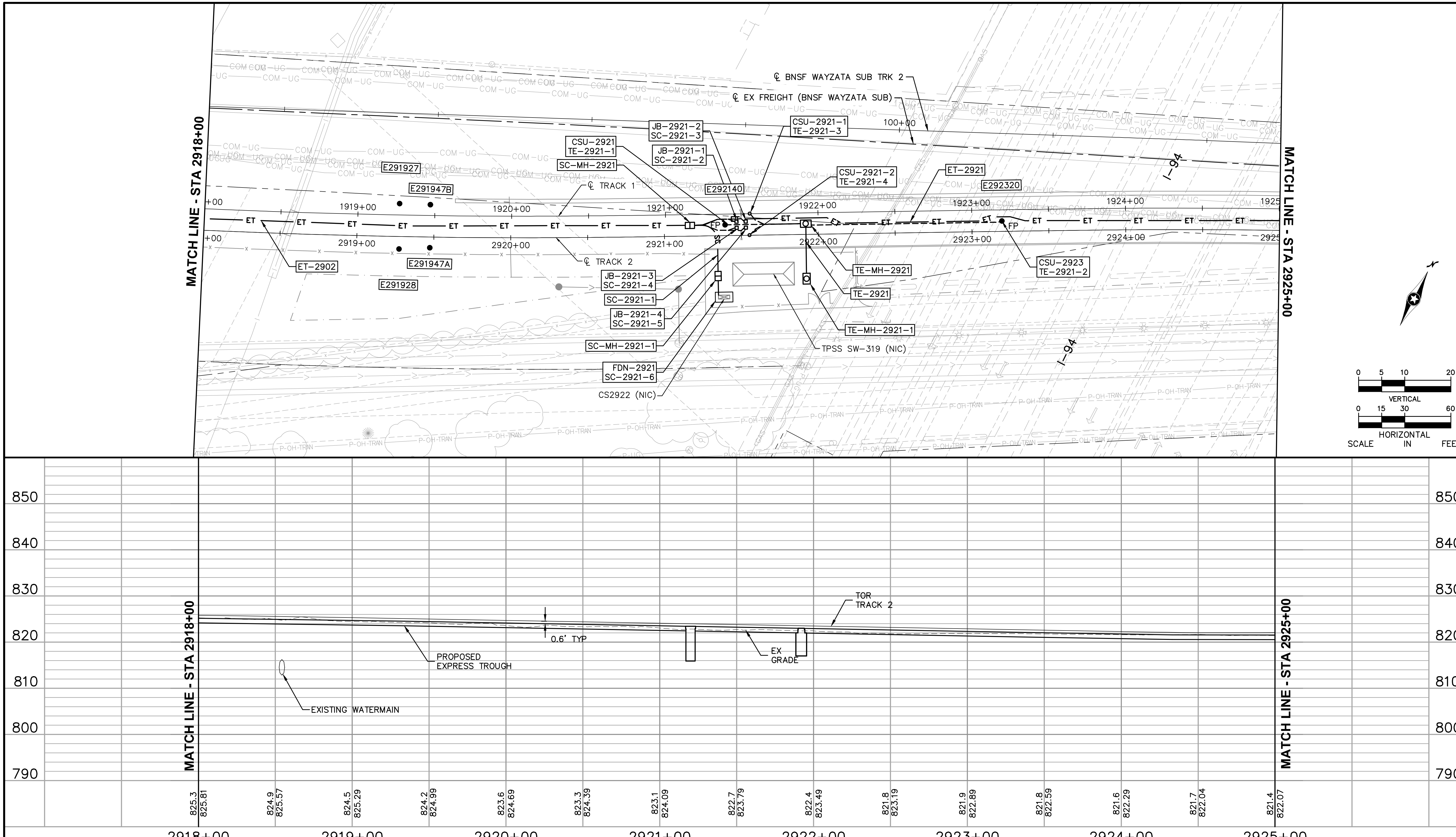
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2911+00 TO STA 2918+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-012

SHEET 254 OF 464

Jan, 18 2016 07:51 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-SCH.dwg By: V-CameroAD



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2918+00 TO STA 2925+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-013

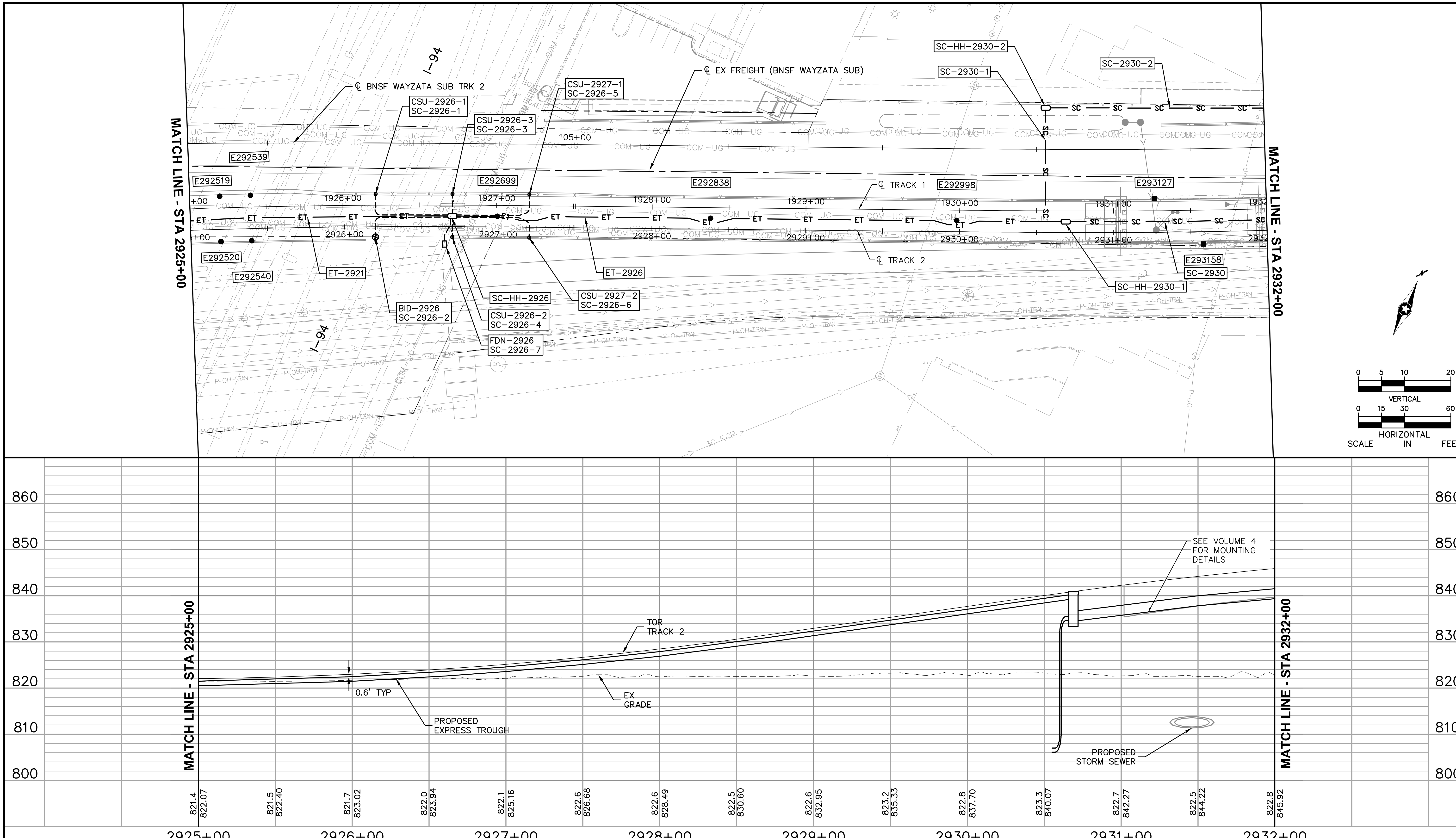
SHEET 255 OF 464

Jan, 18 2016 08:20 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-PRF.dwg By: V-CameroAD

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2921	2921+20	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2921-1	2921+39	26.2' R	SWE-DTL-003	SC MANHOLE
TE-MH-2921	2921+92	7.0' R	SWE-DTL-002	TE MANHOLE
TE-MH-2921-1	2921+92	28.8' R	SWE-DTL-002	TE MANHOLE
FDN-2921	2921+39	31.5' R	SWE-DTL-SIG-009	CUT SECTION CASE FOUNDATOIN AND STUB UP
JB-2921-1	2921+47	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2921-2	2921+53	9.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2921-3	2921+47	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2921-4	2921+53	5.0' L	SWE-DTL-SIG-018	DOUBLE IMPEDANCE BOND JUNCTION BOX
CSU-2921	2921+42	6.9' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2923	2923+37	7.0' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2921-1	2921+56	14.0' L	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP
CSU-2921-2	2921+55	0.0'	4/SWE-DTL-012	NEGATIVE RETURN CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2902	SC-MH-2902	SC-MH-2921	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2921	SC-MH-2921	SC-HH-2926	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2921-1	SC-MH-2921	SC-MH-2921-1	6-4	6/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2921-2	SC-MH-2921	JB-2921-1	1-2	STU-DTL-001	SC CONDUIT
SC-2921-3	SC-MH-2921	JB-2921-2	1-2	STU-DTL-001	SC CONDUIT
SC-2921-4	SC-MH-2921	JB-2921-3	1-2	STU-DTL-001	SC CONDUIT
SC-2921-5	SC-MH-2921	JB-2921-4	1-2	STU-DTL-001	SC CONDUIT
TE-2921	TE-MH-2921	TE-MH-2921-1	10-5	10/STU-DTL-002	TE DUCTBANK
TE-2921-1	TE-MH-2921	CSU-2921	2-4	STU-DTL-002	TE CONDUIT
TE-2921-2	TE-MH-2921	CSU-2923	2-4	STU-DTL-002	TE CONDUIT
TE-2921-3	TE-MH-2921	CSU-2921-1	1-5	STU-DTL-002	TE CONDUIT
TE-2921-4	TE-MH-2921	CSU-2921-2	1-5	STU-DTL-002	TE CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2925+00 TO STA 2932+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-014

SHEET 257 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-HH-2926	2926+70	6.9' L	SWE-DTL-003	SC HANDHOLE
SC-HH-2930-1	2930+69	7.0' R	SWE-DTL-003	SC HANDHOLE
SC-HH-2930-2	2930+55	80.9' L	SWE-DTL-003	SC HANDHOLE
CSU-2926-1	2926+20	21.3' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2926-2	2926+70	6.7' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2926-3	2926+70	21.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2927-1	2927+20	21.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2927-2	2927+20	6.7' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
FDN-2926	2926+65	11.3' R	SWE-DTL-COM-001	INTRUSION DETECTION FOUNDATION AND STUB UP
BID-2926	2926+20	6.7' R	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
ET-2921	SC-MH-2921	SC-HH-2926	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
ET-2926	SC-HH-2926	SC-HH-2930-1	TYPE I	1/SWE-DTL-010	EXPRESS TROUGH
SC-2930	SC-HH-2930-1	PB-2933	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2930-1	SC-HH-2930-1	SC-HH-2930-2	2-4	2/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2930-2	SC-HH-2930-2	SC-MH-2933	2-4	2/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2926-1	SC-HH-2926	CSU-2926-1	1-2	STU-DTL-001	SC CONDUIT
SC-2926-2	SC-HH-2926	BID-2926	1-2	STU-DTL-001	SC CONDUIT
SC-2926-3	SC-HH-2926	CSU-2926-3	1-2	STU-DTL-001	SC CONDUIT
SC-2926-4	SC-HH-2926	CSU-2926-2	1-2	STU-DTL-001	SC CONDUIT
SC-2926-5	SC-HH-2926	CSU-2927-1	1-2	STU-DTL-001	SC CONDUIT
SC-2926-6	SC-HH-2926	CSU-2927-2	1-2	STU-DTL-001	SC CONDUIT
SC-2926-7	SC-HH-2926	FDN-2926	4-2	STU-DTL-001	SC CONDUIT

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

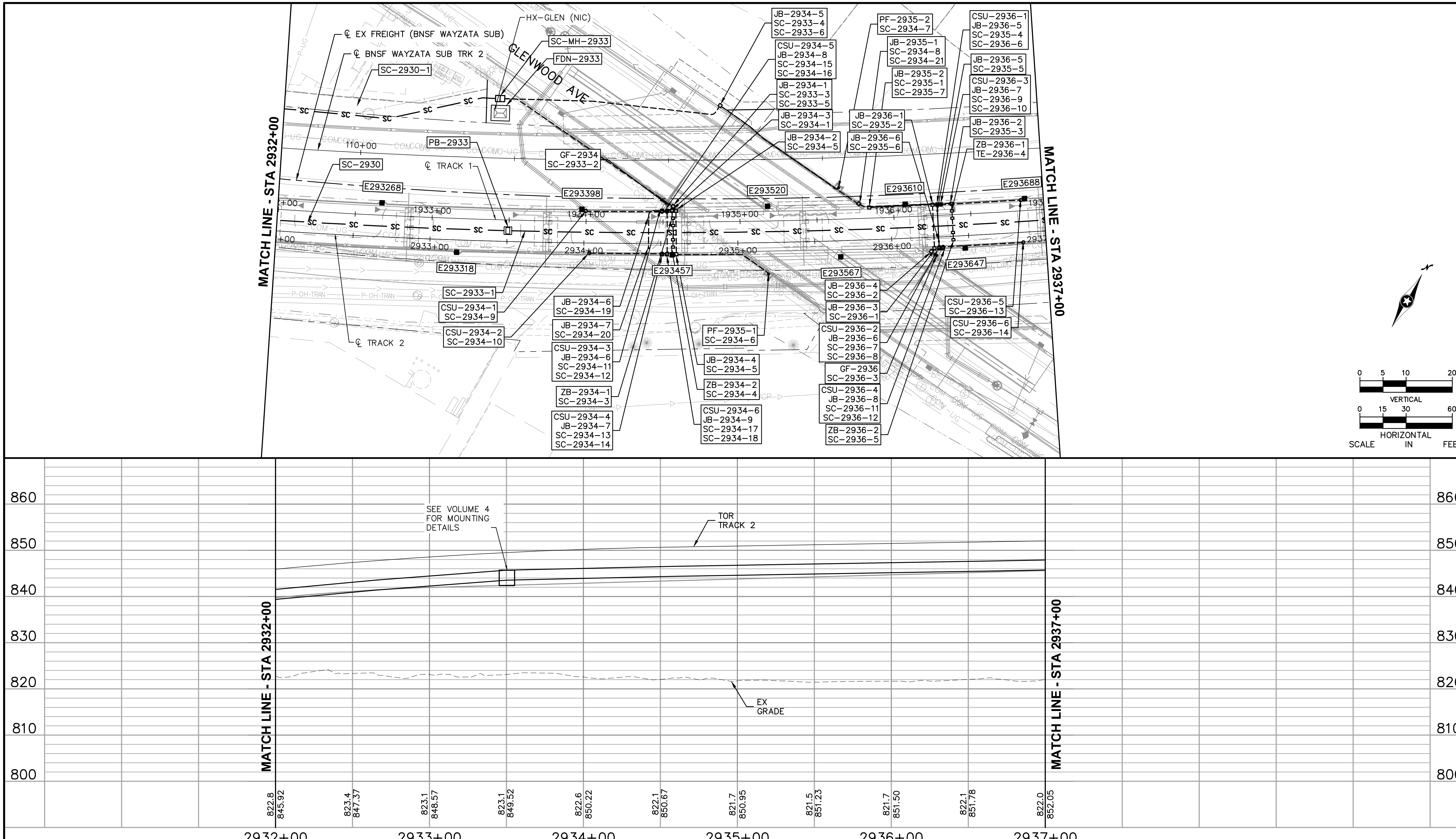
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2925+00 TO STA 2932+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-014

SHEET 258 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2932+00 TO STA 2937+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-015

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2933	2933+43	92.7' L	SWE-DTL-003	SC MANHOLE
FDN-2933	2933+43	83.3' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
GF-2934	2934+54	26.0' L	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
GF-2936	2936+29	12.0' R	SWE-DTL-SIG-006	GATE FOUNDATION AND STUB UP
PF-2935-1	2935+20	20.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2935-2	2935+66	34.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
JB-2934-1	2934+60	21.3' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2934-2	2934+60	21.3' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2934-3	2934+57	21.3' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2934-4	2934+60	7.0' R	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2934-5	2934+89	89.4' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2934-6	2934+42	16.9' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2934-7	2934+42	3.0' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2935-1	2935+66	34.5' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2935-2	2935+86	21.0' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2936-1	2936+27	21.2' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2936-2	2936+40	21.1' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2936-3	2936+27	7.2' R	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2936-4	2936+25	9.1' R	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2936-5	2936+31	17.0' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2936-6	2936+31	2.9' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
ZB-2934-1	2934+58	16.4' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2934-2	2934+58	2.3' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2936-1	2936+40	16.4' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2936-2	2936+40	2.3' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
PB-2933	2933+50	7.0' L		PULL BOX
CSU-2934-1	2934+01	20.7' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2934-2	2934+03	6.6' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2934-3	2934+51	20.6' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2934-4	2934+51	6.6' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2934-5	2934+54	20.6' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2934-6	2934+54	6.5' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-1	2936+30	20.9' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-2	2936+30	6.6' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-3	2936+33	20.9' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-4	2936+33	6.6' R		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-5	2936+81	20.9' L		INTRUSION DETECTION CONDUIT STUB UP
CSU-2936-6	2936+80	6.5' R		INTRUSION DETECTION CONDUIT STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2930	SC-HH-2930-1	PB-2933	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2933-1	PB-2933	SC-MH-2940	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2933-2	SC-MH-2933	GF-2934	1-4	STU-DTL-001	SC CONDUIT
SC-2933-3	SC-MH-2933	JB-2934-1	3-4	STU-DTL-001	SC CONDUIT
SC-2933-4	SC-MH-2933	JB-2934-5	4-4	STU-DTL-001	SC CONDUIT
SC-2933-5	SC-MH-2933	JB-2934-1	1-2	STU-DTL-001	SC CONDUIT
SC-2933-6	SC-MH-2933	JB-2934-5	1-2	STU-DTL-001	SC CONDUIT
SC-2934-1	JB-2934-1	JB-2934-3	1-2	STU-DTL-001	SC CONDUIT
SC-2934-2	JB-2934-1	JB-2934-4	1-4	STU-DTL-001	SC CONDUIT
SC-2934-3	JB-2934-3	ZB-2934-1	1-2	STU-DTL-001	SC CONDUIT
SC-2934-4	ZB-2934-1	ZB-2934-2	1-2	STU-DTL-001	SC CONDUIT
SC-2934-5	JB-2934-2	JB-2934-4	1-4	STU-DTL-001	SC CONDUIT
SC-2934-6	JB-2934-4	PF-2935-1	1-4	STU-DTL-001	SC CONDUIT
SC-2934-7	JB-2934-5	PF-2935-2	1-4	STU-DTL-001	SC CONDUIT
SC-2934-8	JB-2934-5	JB-2935-1	3-4	STU-DTL-001	SC CONDUIT
SC-2934-9	JB-2934-6	CSU-2934-1	1-2	STU-DTL-001	SC CONDUIT
SC-2934-10	JB-2934-7	CSU-2934-2	1-2	STU-DTL-001	SC CONDUIT
SC-2934-11	JB-2934-6	CSU-2934-3	1-2	STU-DTL-001	SC CONDUIT
SC-2934-12	JB-2934-6	JB-2934-8	1-4	STU-DTL-001	SC CONDUIT
SC-2934-13	JB-2934-7	CSU-2934-4	1-2	STU-DTL-001	SC CONDUIT
SC-2934-14	JB-2934-7	JB-2934-9	1-4	STU-DTL-001	SC CONDUIT
SC-2934-15	JB-2934-8	CSU-2934-5	1-2	STU-DTL-001	SC CONDUIT
SC-2934-16	JB-2934-8	JB-2934-1	2-4	STU-DTL-001	SC CONDUIT
SC-2934-17	JB-2934-9	CSU-2934-6	1-2	STU-DTL-001	SC CONDUIT
SC-2934-18	JB-2934-9	2934-8	1-4	STU-DTL-001	SC CONDUIT
SC-2934-19	JB-2934-1	SC-2936-5	1-2	STU-DTL-001	SC CONDUIT
SC-2934-20	JB-2934-1	SC-2936-6	1-2	STU-DTL-001	SC CONDUIT
SC-2934-21	JB-2934-5	JB-2935-1	1-2	STU-DTL-001	SC CONDUIT
SC-2935-1	JB-2935-1	JB-2935-2	3-4	STU-DTL-001	SC CONDUIT
SC-2935-2	JB-2935-2	JB-2936-1	1-4	STU-DTL-001	SC CONDUIT
SC-2935-3	JB-2935-2	JB-2936-2	1-2	STU-DTL-001	SC CONDUIT
SC-2935-4	JB-2935-2	JB-2936-5	2-4	STU-DTL-001	SC CONDUIT
SC-2935-5	JB-2935-2	JB-2936-5	1-2	STU-DTL-001	SC CONDUIT
SC-2935-6	JB-2935-2	JB-2936-6	1-2	STU-DTL-001	SC CONDUIT
SC-2935-7	JB-2935-1	JB-2935-2	1-2	STU-DTL-001	SC CONDUIT
SC-2936-1	JB-2936-1	JB-2936-3	1-4	STU-DTL-001	SC CONDUIT
SC-2936-2	JB-2936-3	JB-2936-4	1-4	STU-DTL-001	SC CONDUIT
SC-2936-3	JB-2936-4	GF-2936	1-4	STU-DTL-001	SC CONDUIT
SC-2936-4	JB-2936-2	ZB-2936-1	1-2	STU-DTL-001	SC CONDUIT
SC-2936-5	ZB-2936-1	ZB-2936-2	1-2	STU-DTL-001	SC CONDUIT
SC-2936-6	JB-2936-5	CSU-2936-1	1-2	STU-DTL-001	SC CONDUIT
SC-2936-7	JB-2936-6	CSU-2936-2	1-2	STU-DTL-001	SC CONDUIT
SC-2936-8	JB-2936-5	JB-2936-6	1-4	STU-DTL-001	SC CONDUIT
SC-2936-9	JB-2936-7	CSU-2936-3	1-2	STU-DTL-001	SC CONDUIT
SC-2936-10	JB-2936-5	JB-2936-7	1-4	STU-DTL-001	SC CONDUIT
SC-2936-11	JB-2936-8	CSU-2936-4	1-2	STU-DTL-001	SC CONDUIT
SC-2936-12	JB-2936-6	JB-2936-8	1-4	STU-DTL-001	SC CONDUIT
SC-2936-13	JB-2936-7	CS-2936-5	1-2	STU-DTL-001	SC CONDUIT
SC-2936-14	JB-2936-8	CSU-2936-6	1-2	STU-DTL-001	SC CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2932+00 TO STA 2937+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-015

SHEET 260 OF 464

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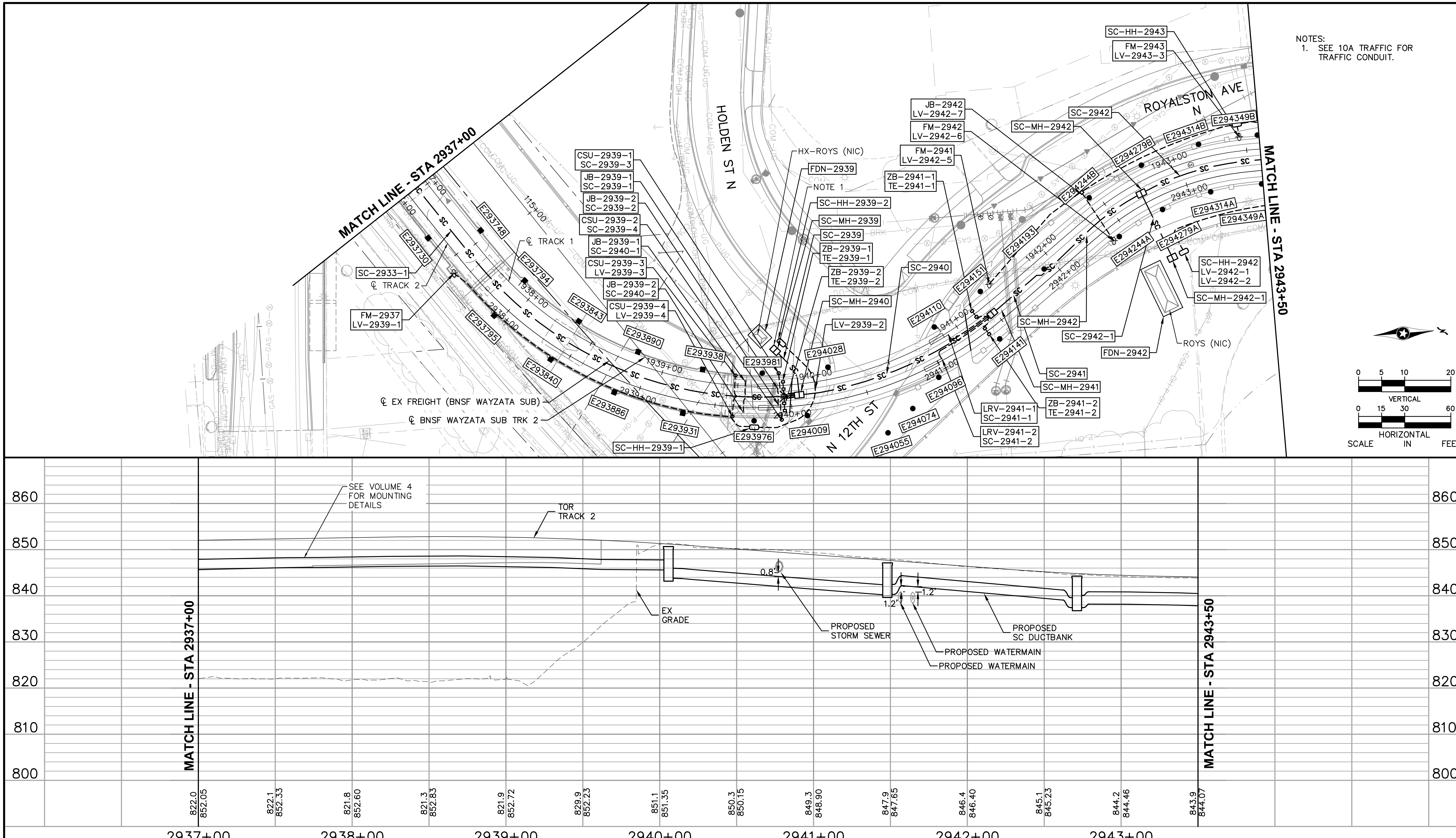

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2937+00 TO STA 2943+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-016

SHEET 261 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2939	2939+91	37.2' L	SWE-DTL-003, NOTE 1	SC MANHOLE
SC-MH-2940-1	2939+91	37.2' L	SWE-DTL-003	SC MANHOLE
SC-MH-2941			SWE-DTL-003	SC MANHOLE
SC-MH-2942	2942+29	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2942-1	2942+23	33.1' R	SWE-DTL-003	SC MANHOLE
FDN-2939	2939+79	46.5' L	SWE-DTL-SIG-015	SC HOUSE FOUNDATION
FDN-2942	2942+44	45.5' R	SWE-DTL-SIG-013	SC HOUSE FOUNDATION
ZB-2939-1	2939+95	16.4' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2939-2	2939+95	2.3' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2941-1	2941+38	16.5' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2941-2	2941+38	2.2' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
FM-2937	2937+58	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
FM-2941	2941+58	23.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
FM-2942	2942+39	8.7' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
FM-2943	2943+38	23.24' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
SC-HH-2939-1	2939+76	12.6' R	SWE-DTL-003	SC HANDHOLE
SC-HH-2939-2	2939+96	41.9' L	SWE-DTL-003	SC HANDHOLE
SC-HH-2942	2942+79	39.6' R	SWE-DTL-003	SC HANDHOLE
SC-HH-2943	2943+37	34.5' L	SWE-DTL-003	SC HANDHOLE
LRV-2939-1	2939+91	1.5' L	SWE-DTL-SIG-001	LRV TRAFFIC DETECTION LOOP JUNCTION BOX
LRV-2939-2	2939+91	12.5' L	SWE-DTL-SIG-001	LRV TRAFFIC DETECTION LOOP JUNCTION BOX
LRV-2941-1	2941+15	12.4' L	SWE-DTL-SIG-001	LRV TRAFFIC DETECTION LOOP JUNCTION BOX
LRV-2941-2	2941+03	1.4' L	SWE-DTL-SIG-001	LRV TRAFFIC DETECTION LOOP JUNCTION BOX
CSU-2939-1	2939+93	22.2' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2939-2	2939+93	8.1' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2939-3	2939+62	20.4' L	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
CSU-2939-4	2939+62	6.3' R	RTW-DTL-XXX	INTRUSION DETECTION CONDUIT STUB UP
JB-2939-1	2939+69	17.2' L	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2939-2	2939+69	2.7' R	SWE-DTL-SIG-004	TWC ANTENNA JUNCTION BOX
JB-2942	2942+42	29.0' L	1/SWE-DTL-SIG-024	JUNCTION BOX

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2933-1	PB-2933	SC-MH-2940	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2937	SC-HH-2937	SC-MH-2940	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2940	SC-MH-2940	SC-MH-2941	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2941	SC-MH-2941	SC-MH-2942	9-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2942	SC-MH-2942	SC-MH-2943	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2939-1	SC-MH-2939	SC-MH-2940	16-4	16/STU-DTL-001	SC DUCTBANK
SC-2942-1	SC-MH-2942	SC-MH-2942-1	16-4	16/STU-DTL-001	SC DUCTBANK
TE-2939-1	SC-MH-2940	ZB-2939-1	2-4	STU-DTL-002	TE CONDUIT
TE-2939-2	SC-MH-2940	ZB-2939-2	2-4	STU-DTL-002	TE CONDUIT
TE-2941-1	SC-MH-2941	ZB-2941-1	2-4	STU-DTL-002	TE CONDUIT
TE-2941-2	SC-MH-2941	ZB-2941-2	2-4	STU-DTL-002	TE CONDUIT
SC-2939-1	SC-MH-2940	LRV-2939-1	1-2	STU-DTL-001	SC CONDUIT
SC-2939-2	SC-MH-2940	LRV-2939-2	1-2	STU-DTL-001	SC CONDUIT
SC-2939-3	CSU-2939-1	SC-MH-2940	2-2	STU-DTL-001	SC CONDUIT
SC-2939-4	CSU-2939-2	SC-MH-2940	2-2	STU-DTL-001	SC CONDUIT
SC-2940-1	SC-MH-2940	JB-2939-1	1-2	STU-DTL-001	SC CONDUIT
SC-2940-2	SC-MH-2940	JB-2939-2	1-2	STU-DTL-001	SC CONDUIT
SC-2941-1	SC-MH-2941	LRV-2941-1	1-2	STU-DTL-001	SC CONDUIT
SC-2941-2	SC-MH-2941	LRV-2941-2	1-2	STU-DTL-001	SC CONDUIT
LV-2939-1	SC-HH-2939-1	FM-2937	1-2	STU-DTL-001	LV CONDUIT
LV-2939-2	SC-HH-2939-2	SC-HH-2939-1	1-2	STU-DTL-001	LV CONDUIT
LV-2942-1	SC-2942-HH	CSU-2945-2	1-2	STU-DTL-001	LV CONDUIT
LV-2942-3	SC-2942-HH	CSU-29445-3	1-2	STU-DTL-001	LV CONDUIT
LV-2942-4	SC-2942-HH	CSU-29445-4	1-2	STU-DTL-001	LV CONDUIT
LV-2942-5	JB-2942	FM-2941	1-2	STU-DTL-001	LV CONDUIT
LV-2942-6	JB-2942	FM-2942	1-2	STU-DTL-001	LV CONDUIT
LV-2942-7	JB-2942	SC-HH-2942	1-2	STU-DTL-001	LV CONDUIT
LV-2943-3	SC-MH-2943	FM-2943	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

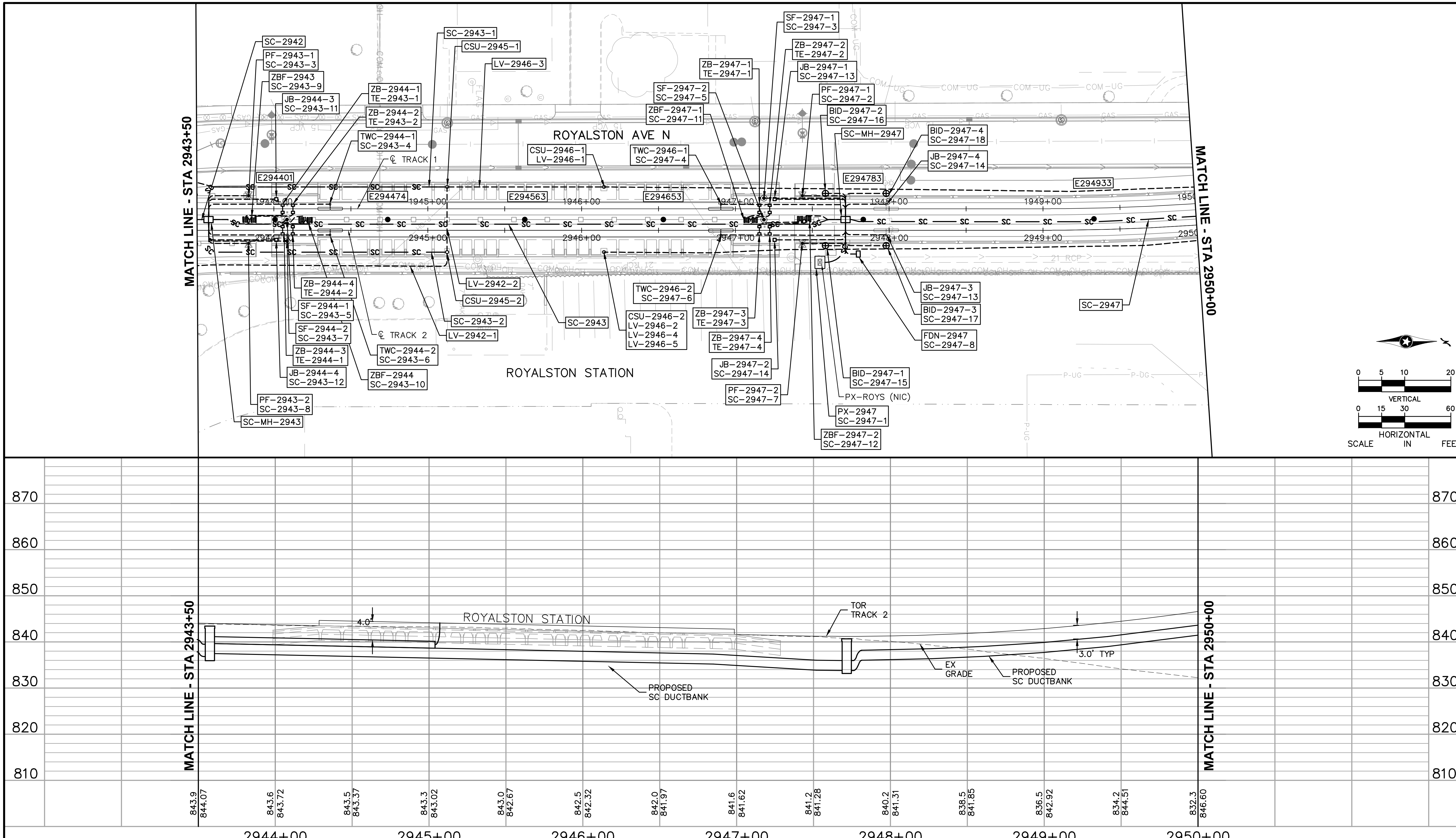
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2937+00 TO STA 2943+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-016



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2943+50 TO STA 2950+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-017

SHEET 263 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2943	2943+57.50	7.0' L	SWE-DTL-003	SC MANHOLE
SC-MH-2947	2947+72	7.0' L	SWE-DTL-003	SC MANHOLE
FDN-2947	2947+72	15.4' R	SWE-DTL-COM-001	INTRUSION DETECTION CABINET FOUNDATION AND STUB UP
PX-2947	2947+55	20.8' R	SWE-DTL-SIG-008	PEDESTRIAN CROSSING CASE FOUNDATION AND STUB UP
PF-2943-1	2943+83	22.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2943-2	2943+83	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2947-1	2947+53	22.5' L	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
PF-2947-2	2947+43	8.5' R	SWE-DTL-SIG-006	LRT FLASHER FOUNDATION AND STUB UP
SF-2944-1	2944+08	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2944-2	2944+08	7.0' R	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2947-1	2947+19	20.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2947-2	2947+19	6.9' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
TWC-2944-1	2944+36	17.0' L	SWE-DTL-SIG-002	EMBEDDED TRACK TWC ANTENNA
TWC-2944-2	2944+37	3.0' R	SWE-DTL-SIG-002	EMBEDDED TRACK TWC ANTENNA
TWC-2946-1	2946+91	16.9' L	SWE-DTL-SIG-002	EMBEDDED TRACK TWC ANTENNA
TWC-2946-2	2946+91	3.0' R	SWE-DTL-SIG-002	EMBEDDED TRACK TWC ANTENNA
CSU-2945-1	2945+13	28.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2945-2	2945+13	14.2' R	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2946-1	2946+14	28.2' L	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
CSU-2946-2	2946+14	14.2' R	3/SWE-DTL-012	COMMUNICATION CABINET CONDUIT STUB UP
ZBF-2943	2943+84	7.0' L	SWE-DTL-SIG-022	IMPEDANCE BOND PLINTH MOUNTED ARRANGEMENT
ZBF-2944	2944+21	6.5' L	SWE-DTL-SIG-022	IMPEDANCE BOND PLINTH MOUNTED ARRANGEMENT
ZBF-2947-1	2947+10	6.8' L	SWE-DTL-SIG-022	IMPEDANCE BOND PLINTH MOUNTED ARRANGEMENT
ZBF-2947-2	2947+45	7.2' L	SWE-DTL-SIG-022	IMPEDANCE BOND PLINTH MOUNTED ARRANGEMENT
ZB-2944-1	2944+06	14.0' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2944-2	2944+12	14.0' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2944-3	2944+06	2.3' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2944-4	2944+12	2.4' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2947-1	2947+16	14.0' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2947-2	2947+22	14.0' L	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2947-3	2947+16	2.3' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
ZB-2947-4	2947+22	2.4' R	SWE-DTL-SIG-021	IMPEDANCE BOND RAIL CONNECTION BOXES
JB-2944-3	2944+01	20.2' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOXES
JB-2944-4	2944+01	6.2' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOXES
JB-2947-1	2947+25	20.2' L	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOXES
JB-2947-2	2947+22	2.4' R	1/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOXES
JB-2947-3	2947+98	2.9' R	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2947-4	2947+98	16.9' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
BID-2947-1	2947+58	19.8' L	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
BID-2947-2	2947+43	8.5' R	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
BID-2947-3	2948+98	5.9' R	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP
BID-2947-4	2947+71	7.0' L	SWE-DTL-COM-002	BRIDGE INTRUTION DETECTION FOUNDATION AND STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2942	SC-MH-2942	SC-MH-2943	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2943	SC-MH-2943	SC-MH-2947	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2943-1	SC-MH-2943	CSU-2945-1	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2943-2	SC-MH-2943	CSU-2945-2	4-4	4/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2947	SC-MH-2947	SC-HH-2952	8-4	9/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2947-1	SC-MH-2947	PX-2947	4-4	4/STU-DTL-001	SC DUCTBANK
SC-2943-3	SC-MH-2943	PF-2943-1	1-4	STU-DTL-001	SC CONDUIT
SC-2943-4	SC-MH-2943	TWC-2944-1	1-2	STU-DTL-001	SC CONDUIT
SC-2943-5	SC-MH-2943	SF-2944-1	1-2	STU-DTL-001	SC CONDUIT
SC-2943-6	SC-MH-2943	TWC-2944-2	1-2	STU-DTL-001	SC CONDUIT
SC-2943-7	SC-MH-2943	SF-2944-2	1-2	STU-DTL-001	SC CONDUIT
SC-2943-8	SC-MH-2943	PF-2943-2	1-4	STU-DTL-001	SC CONDUIT
SC-2943-9	SC-MH-2943	ZBF-2943	2-2	STU-DTL-001	SC CONDUIT
SC-2943-10	SC-MH-2943	ZBF-2944	2-2	STU-DTL-001	SC CONDUIT
SC-2943-11	SC-MH-2943	JB-2944-3	1-2	STU-DTL-001	SC CONDUIT
SC-2943-12	SC-MH-2943	JB-2944-4	1-2	STU-DTL-001	SC CONDUIT
SC-2947-13	SC-MH-2947	JB-2947-1	1-2	STU-DTL-001	SC CONDUIT
SC-2947-14	SC-MH-2947	JB-2947-2	1-2	STU-DTL-001	SC CONDUIT
SC-2947-2	SC-MH-2947	PF-2947-1	1-4	STU-DTL-001	SC CONDUIT
SC-2947-3	SC-MH-2947	SF-2947-1	1-2	STU-DTL-001	SC CONDUIT
SC-2947-4	SC-MH-2947	TWC-2946-1	1-2	STU-DTL-001	SC CONDUIT
SC-2947-5	SC-MH-2947	SF-2947-2	1-2	STU-DTL-001	SC CONDUIT
SC-2947-6	SC-MH-2947	TWC-2946-2	1-2	STU-DTL-001	SC CONDUIT
SC-2947-7	FDN-2947	PF-2947-2	1-4	STU-DTL-001	SC CONDUIT
SC-2947-8	SC-MH-2947	FDN-2947	4-2	STU-DTL-001	SC CONDUIT
SC-2947-9	SC-MH-2947	JB-2948-1	2-2	STU-DTL-001	SC CONDUIT
SC-2947-10	SC-MH-2947	JB-2948-2	2-2	STU-DTL-001	SC CONDUIT
SC-2947-11	SC-MH-2947	ZBF-2947-1	2-2	STU-DTL-001	SC CONDUIT
SC-2947-12	SC-MH-2947	ZBF-2947-2	2-2	STU-DTL-001	SC CONDUIT
SC-2947-13	SC-MH-2947	JB-2947-3	1-2	STU-DTL-001	SC CONDUIT
SC-2947-14	SC-MH-2947	JB-2947-4	1-2	STU-DTL-001	SC CONDUIT
SC-2947-15	SC-MH-2947	BID-2947-1	1-2	STU-DTL-001	SC CONDUIT
SC-2947-16	SC-MH-2947	BID-2947-2	1-2	STU-DTL-001	SC CONDUIT
SC-2947-17	SC-MH-2947	BID-2947-3	1-2	STU-DTL-001	SC CONDUIT
SC-2947-18	SC-MH-2947	BID-2947-4	1-2	STU-DTL-001	SC CONDUIT
TE-2943-1	ZBF-2943	ZB-2944-1	2-4	STU-DTL-002	TE CONDUIT
TE-2943-2	ZBF-2943	ZB-2944-2	2-4	STU-DTL-002	TE CONDUIT
TE-2944-1	ZBF-2944	ZB-2944-3	2-4	STU-DTL-002	TE CONDUIT
TE-2944-2	ZBF-2944	ZB-2944-4	2-4	STU-DTL-002	TE CONDUIT
TE-2947-1	ZBF-2947-1	ZB-2947-1	2-4	STU-DTL-002	TE CONDUIT
TE-2947-2	ZBF-2947-1	ZB-2947-2	2-4	STU-DTL-002	TE CONDUIT
TE-2947-3	ZBF-2947-2	ZB-2947-3	2-4	STU-DTL-002	TE CONDUIT
TE-2947-4	ZBF-2947-2	ZB-2947-4	2-4	STU-DTL-002	TE CONDUIT
LV-2942-1	SC-2942-HH	CSU-2945-2	1-2	STU-DTL-001	LV CONDUIT
LV-2942-2	CSU-2945-2	CSU-2945-1	1-2	STU-DTL-001	LV CONDUIT
LV-2946-1	CSU-2946-1	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-2	CSU-2946-2	FM-2952	1-2	STU-DTL-001	LV CONDUIT
LV-2946-3	CSU-2946-1	SC-HH-2943	1-4	STU-DTL-001	LV CONDUIT
LV-2946-4	CSU-2946-2	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-5	CSU-2946-2	FM-2962	1-2	STU-DTL-001	LV CONDUIT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

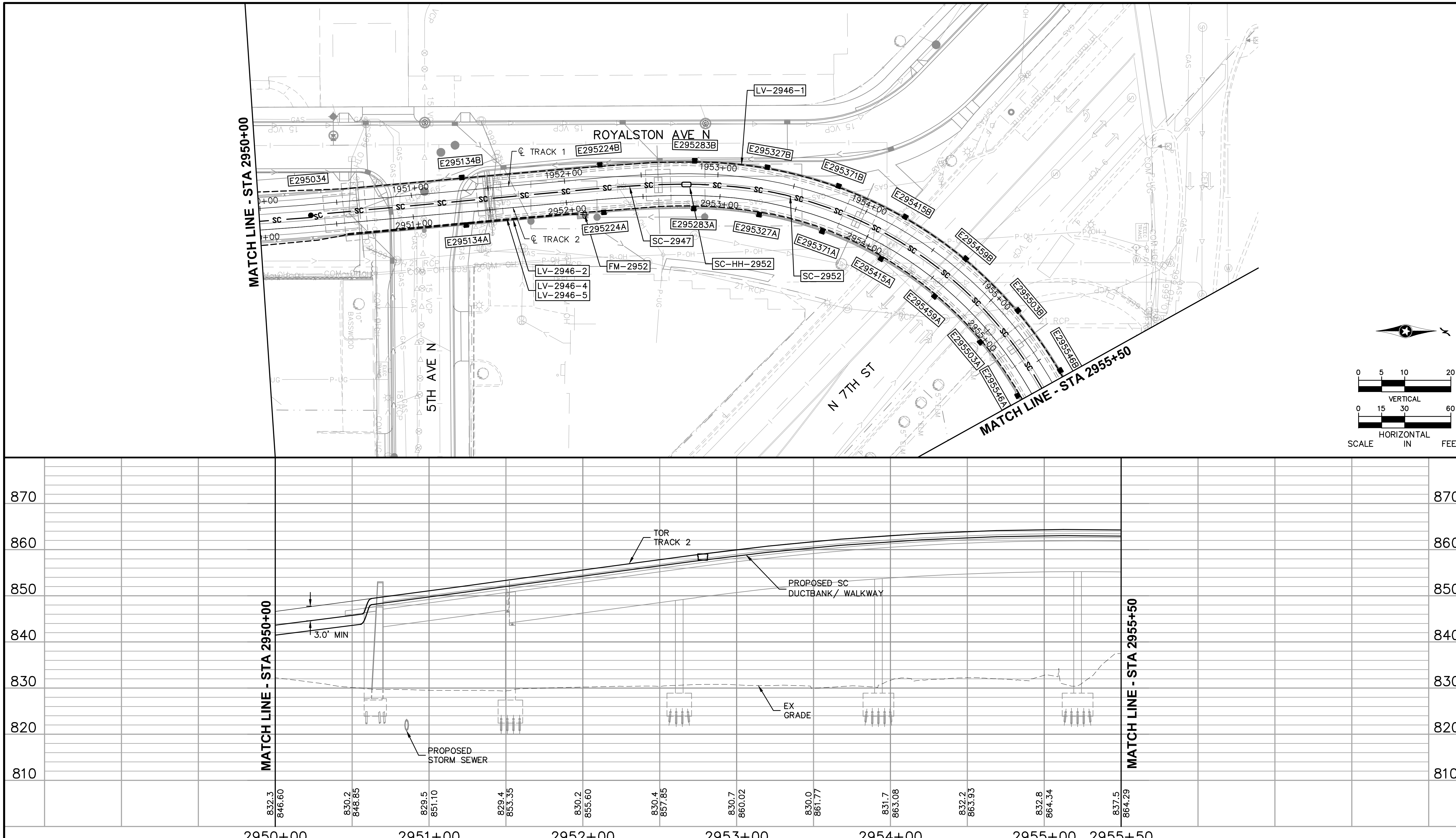
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SCHEDULE
STA 2943+50 TO STA 2950+00

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-017

SHEET 264 OF 464



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2950+00 TO STA 2955+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-018

SHEET 265 OF 464

SYSTEMS DEVICE SCHEDULE

DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
FM-2952	2952+11	9.0' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
SC-HH-2952	2952+78	7.0' L	SWE-DTL-003	SC HANDHOLE

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS

DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2947	SC-MH-2947	SC-HH-2952	8-4	8/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2952	SC-HH-2952	SC-HH-2957	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
LV-2946-1	CSU-2946-1	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-2	CSU-2946-2	FM-2952	1-2	STU-DTL-001	LV CONDUIT
LV-2946-4	CSU-2946-2	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-5	CSU-2946-2	FM-2962	1-2	STU-DTL-001	LV CONDUIT

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

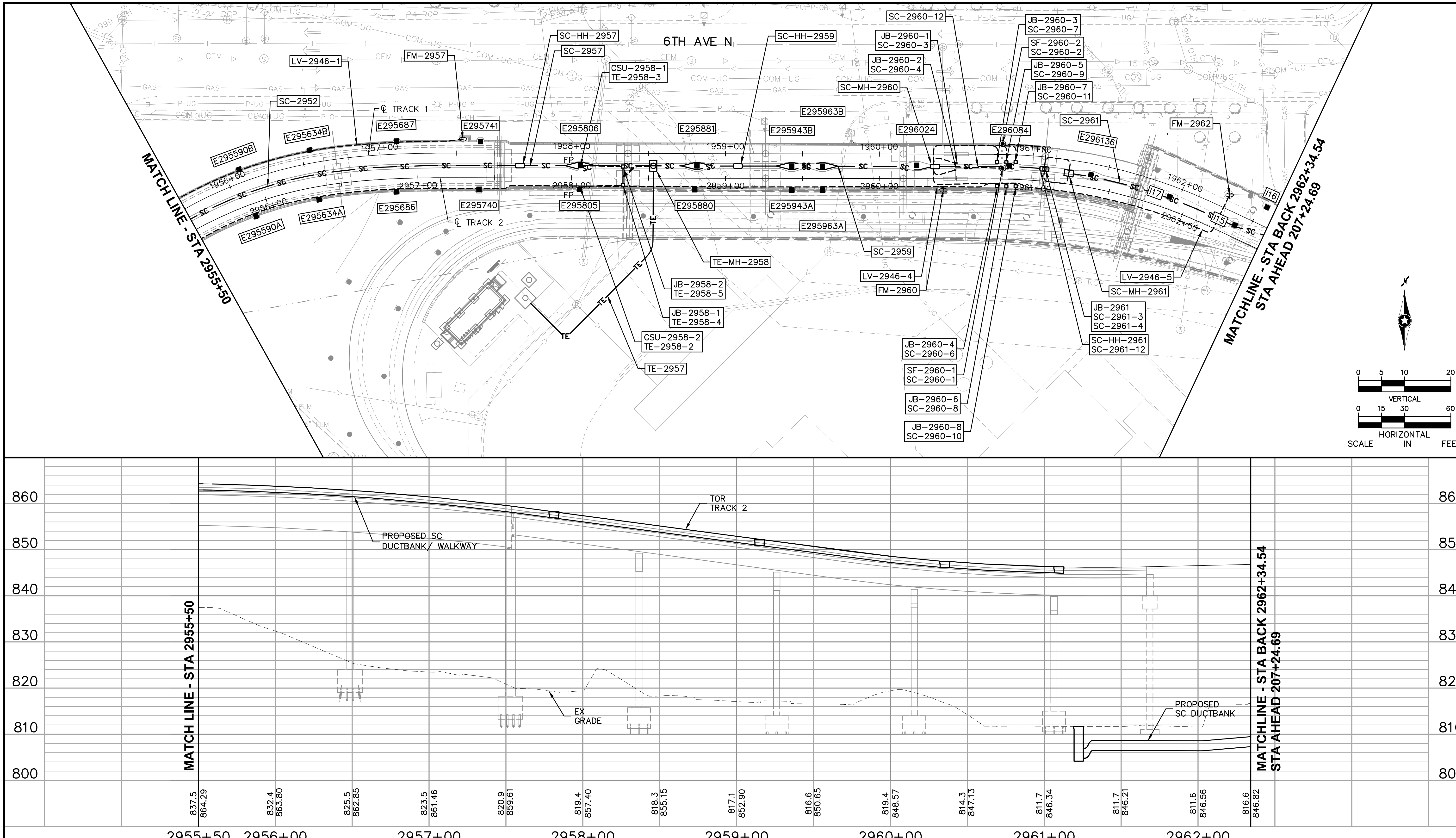
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2950+00 TO STA 2955+50

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-018

SHEET 266 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2955+50 TO STA 2962+34.54

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-019

SHEET 267 OF 464

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SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-2961	2961+12	7.0' L	SWE-DTL-003	SC MANHOLE
SF-2960-1	2960+80	7.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
SF-2960-2	2960+80	23.0' L	SWE-DTL-SIG-005	SIGNAL FOUNDATION AND STUB UP
JB-2958-1	2958+33	4.6' R	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2958-2	2958+33	7.5' L	1/SWE-DTL-SIG-024	JUNCTION BOX
JB-2960-1	2960+50	10.2' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2960-2	2960+50	6.0' L	SWE-DTL-SIG-003	TWC ANTENNA JUNCTION BOX
JB-2960-3	2690+76	10.9' L	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2960-4	2690+77	4.7' R	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2960-5	2960+82	11.0' L	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2960-6	2960+83	4.6' R	B/SWE-DTL-SIG-003	DOUBLE IMPEDANCE BOND JUNCTION BOX
JB-2960-7	2960+88	11.1' L	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2960-8	2960+89	4.5' R	3/SWE-DTL-SIG-007	WHEEL SENSOR JUNCTION BOX
JB-2961	2961+07	8.1' L	1/SWE-DTL-SIG-024	JUNCTION BOX
CSU-2958-1	2958+41	22.8' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
CSU-2958-2	2958+39	6.8' L	1/SWE-DTL-014	FEEDER POLE CONDUIT STUB UP
TE-MH-2958	2958+48	8.0' L	SWE-DTL-002	TE MANHOLE
SC-HH-2957	2957+66	8.0' L	SWE-DTL-003	SC HANDHOLE
SC-HH-2959	2959+08	8.0' L	SWE-DTL-003	SC HANDHOLE
SC-HH-2960	2960+36	8.0' L	SWE-DTL-003	SC HANDHOLE
FM-2957	2957+29	25.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
FM-2960	2960+42	7.1' R	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP
FM-2962	2962+23	24.0' L	TRK-DTL-211, 212, 213	FRICTION MODIFIER FOUNDATION STUB UP

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2952	SC-HH-2952	SC-HH-2957	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
SC-2957	SC-HH-2957	SC-HH-2959	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
SC-2959	SC-HH-2959	SC-HH-2960	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
SC-2960-5	JB-2961	SC-MH-2961	16-4	16/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2960-12	SC-MH-2960	SC-HH-2960	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
SC-2961	SC-MH-2961	SC-MH-205	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK
SC-2961-2	SC-HH-2960	JB-2960	8-4	STU-DTL-001	MAINLINE SC DUCTBANK
SC-2960-1	SC-HH-2960	SF-2960-1	1-2	STU-DTL-001	SC CONDUIT
SC-2960-2	SC-HH-2960	SF-2960-2	1-2	STU-DTL-001	SC CONDUIT
SC-2960-3	SC-HH-2960	JB-2960-1	1-2	STU-DTL-001	SC CONDUIT
SC-2960-4	SC-HH-2960	JB-2960-2	1-2	STU-DTL-001	SC CONDUIT
SC-2960-6	SC-HH-2960	JB-2960-4	1-2	STU-DTL-001	SC CONDUIT
SC-2960-7	SC-HH-2960	JB-2960-3	1-2	STU-DTL-001	SC CONDUIT
SC-2960-8	SC-HH-2960	JB-2960-6	1-2	STU-DTL-001	SC CONDUIT
SC-2960-9	SC-HH-2960	JB-2960-5	1-2	STU-DTL-001	SC CONDUIT
SC-2960-10	SC-HH-2960	JB-2960-8	1-2	STU-DTL-001	SC CONDUIT
SC-2960-11	SC-HH-2960	JB-2960-7	1-2	STU-DTL-001	SC CONDUIT
SC-2961-3	JB-2960	SC-MH-2961	4-4	STU-DTL-001	SC CONDUIT
SC-2961-4	JB-2960	SC-MH-2961	4-4	STU-DTL-001	SC CONDUIT
TE-2957	-	TE-MH-2958	2-4	2/STU-DTL-002	TE DUCTBANK
TE-2958-2	JB-2958-2	CSU-2958-1	1-4	STU-DTL-002	TE CONDUIT
TE-2958-3	JB-2958-1	CSU-2958-2	1-4	STU-DTL-002	TE CONDUIT
TE-2958-4	TE-MH-2958	JB-2958-1	1-4	STU-DTL-002	TE CONDUIT
TE-2958-5	TE-MH-2958	JB-2958-2	1-4	STU-DTL-002	TE CONDUIT
LV-2946-1	CSU-2946-1	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-4	CSU-2946-2	FM-2957	1-2	STU-DTL-001	LV CONDUIT
LV-2946-5	CSU-2946-2	FM-2962	1-2	STU-DTL-001	LV CONDUIT

NOTES:
1. FOR TRAFFIC CONDUIT SEE VOLUME 10A TRAFFIC PLANS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

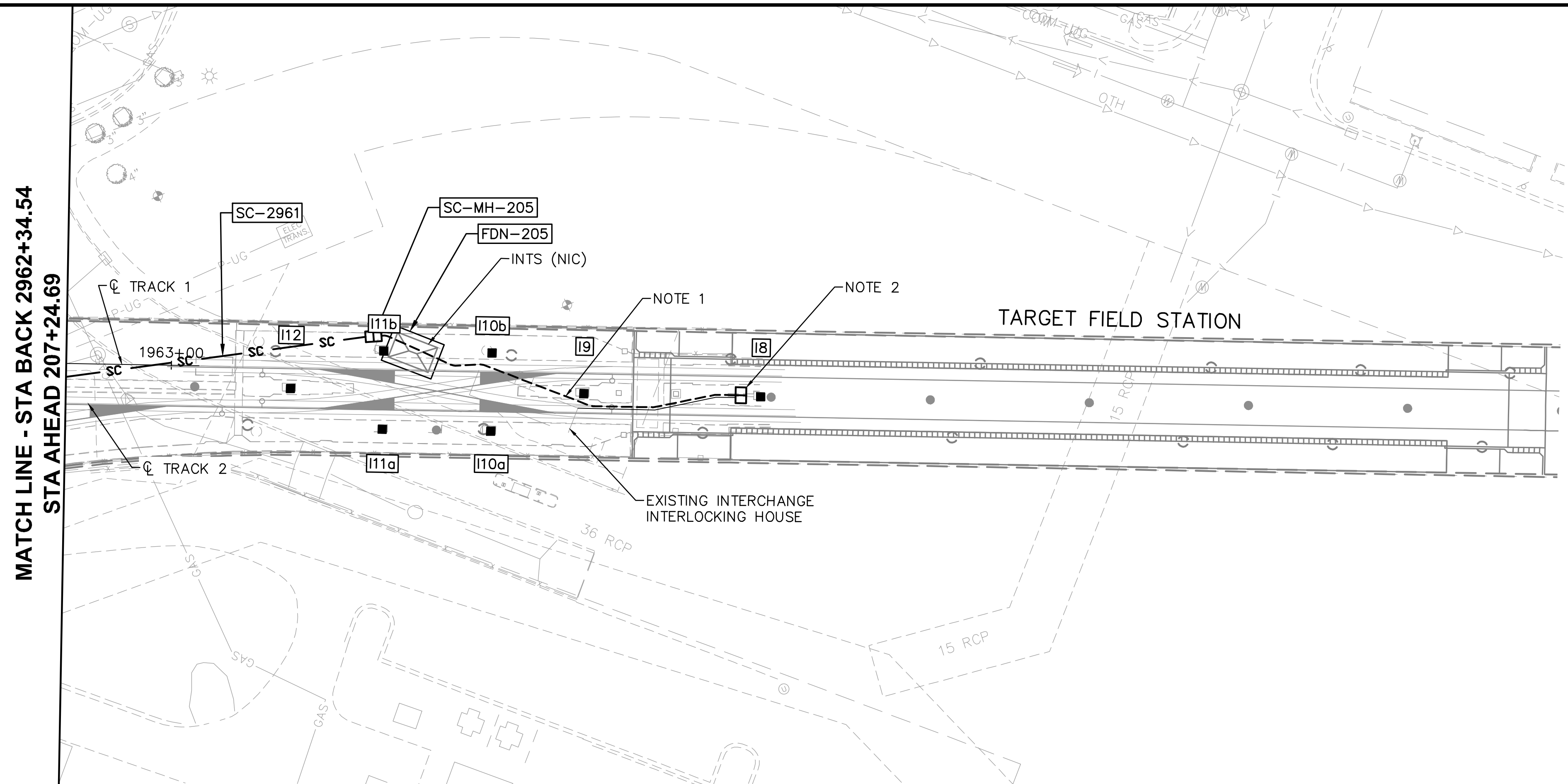
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
STA 2955+50 TO STA 2962+34.54

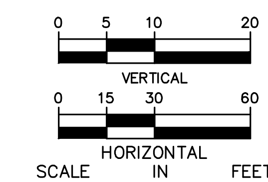
DISCIPLINE: SYSTEMS

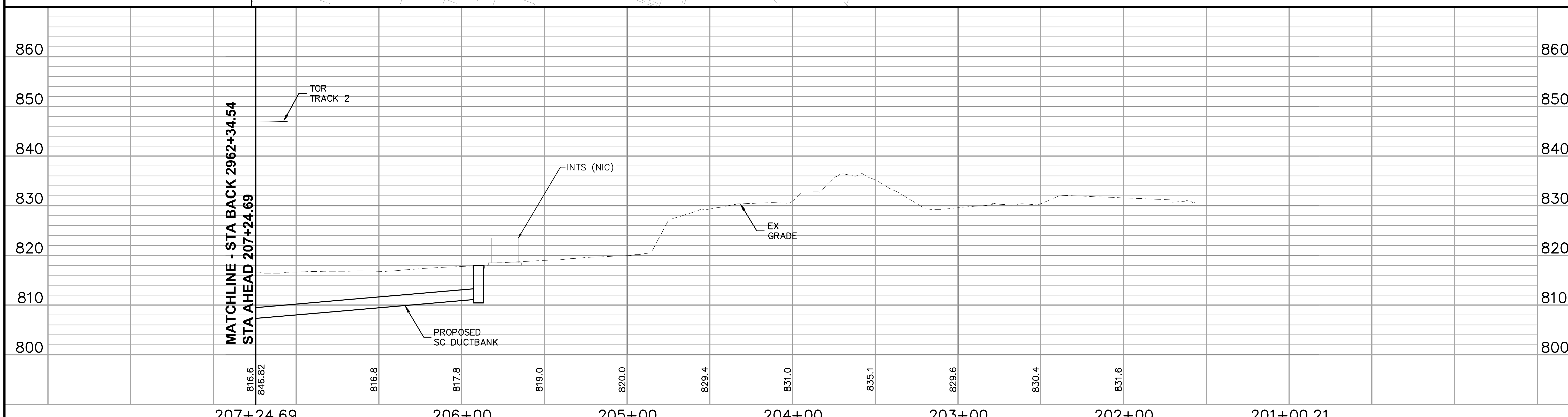
SHEET NAME: E4-SYS-SWE-SCH-019

SHEET 268 OF 464



NOTES:
1. DISCONNECT AND REROUTE 1–4" EXISTING CONDUIT FROM SC MH TO EXISTING INTERCHANGE INTERLOCKING HOUSE AND CONNECT TO SC–MH–205.
2. APPROXIMATE LOCATION OF EXISTING SC MH IN PARKING RAMP. LOCATION TO BE VERIFIED.





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
TARGET FIELD STATION

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-PRF-020

SYSTEMS DEVICE SCHEDULE				
DEVICE ID	TRACK 2 CL STATIONING	TRACK 2 CL OFFSET	DEVICE DETAIL# / REFERENCE DRAWING	SPECIAL NOTES
SC-MH-205	205+90	27.3' R	SWE-DTL-003	SC MANHOLE
FDN-205	205+75	21.5' R	SWE-DTL-SIG-015	SC HOUSE FOUNDATION

DUCTBANKS/ EXPRESS TROUGH/ CONDUITS					
DUCTBANK, EXPRESS TROUGH OR CONDUIT ID	FROM	TO	CONDUIT QTY-SIZE	DUCTBANK DETAIL #/ REFERENCE DRAWING	NOTES
SC-2961	SC-MH-2961	SC-MH-206	12-4	12/STU-DTL-001	MAINLINE SC DUCTBANK

Jan, 18 2016 08:04 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\E4-SYS-SWE-SCH.dwg By: V-CameroAD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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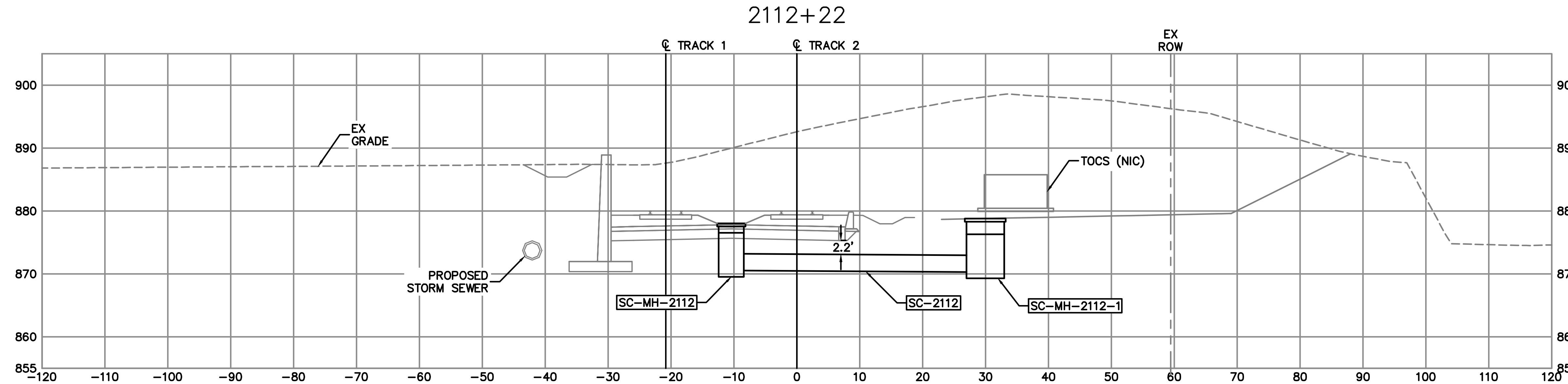
METROPOLITAN COUNCIL

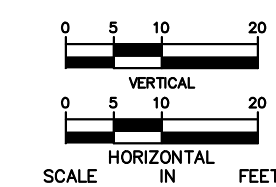
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL SCHEDULE
TARGET FIELD STATION

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SCH-020





Jan. 15 2016 11:39 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\W1-SYS-SWE-XSEC.dwg By: V-TranTT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

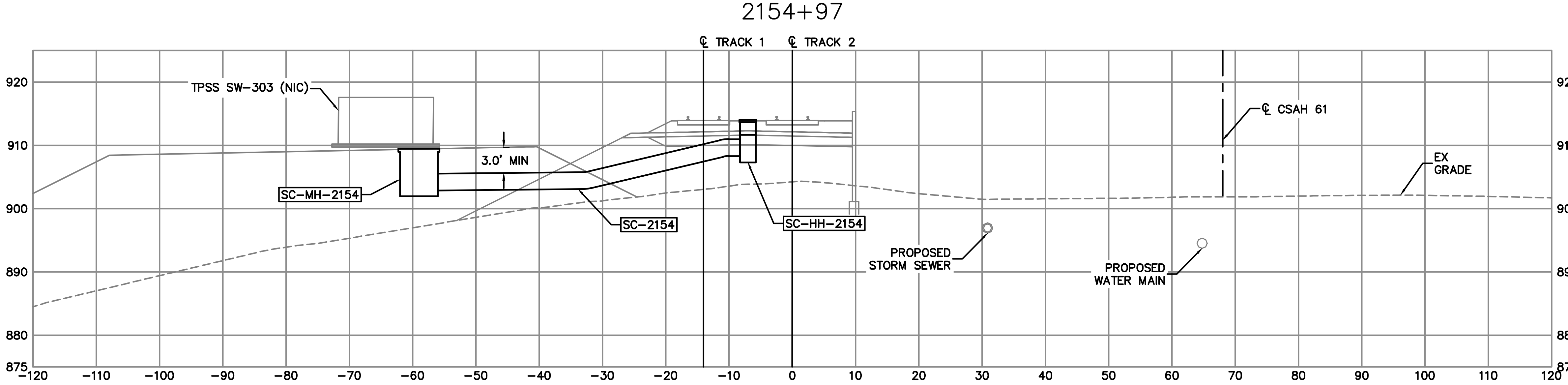
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 1

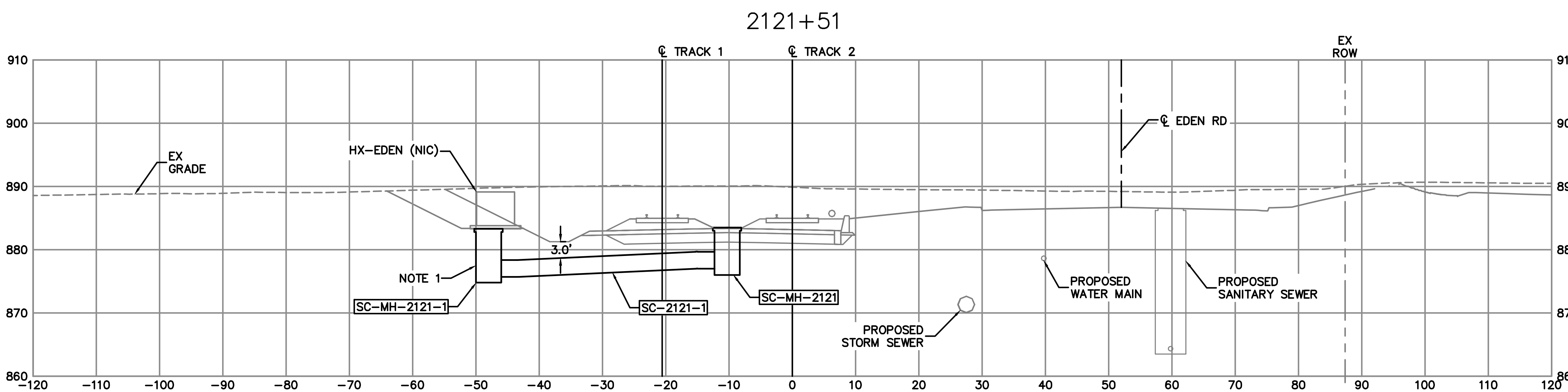
DISCIPLINE: SYSTEMS

SHEET NAME: W1-SYS-SWE-SEC-001

SHEET 271 OF 464

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.





SCALE IN FEET: VERTICAL 0 5 10 20; HORIZONTAL 0 5 10 20

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

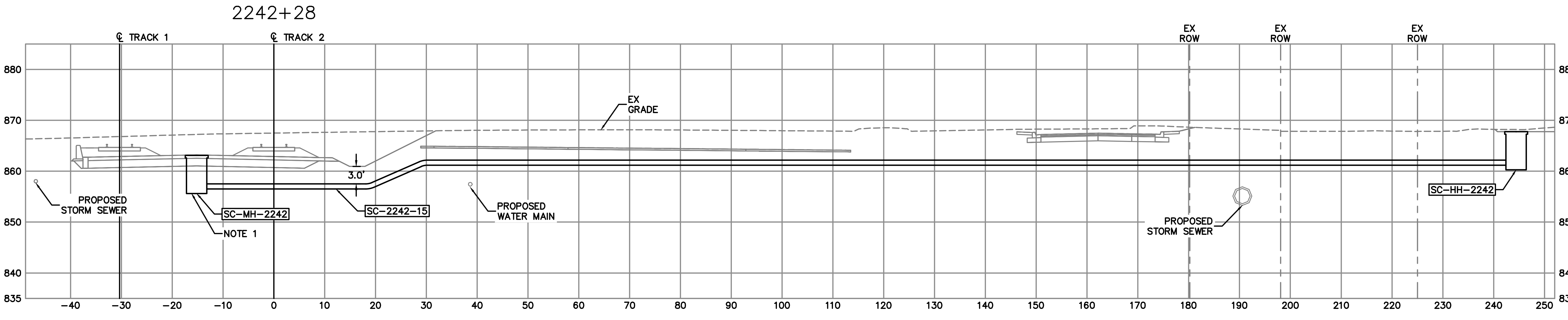
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 2

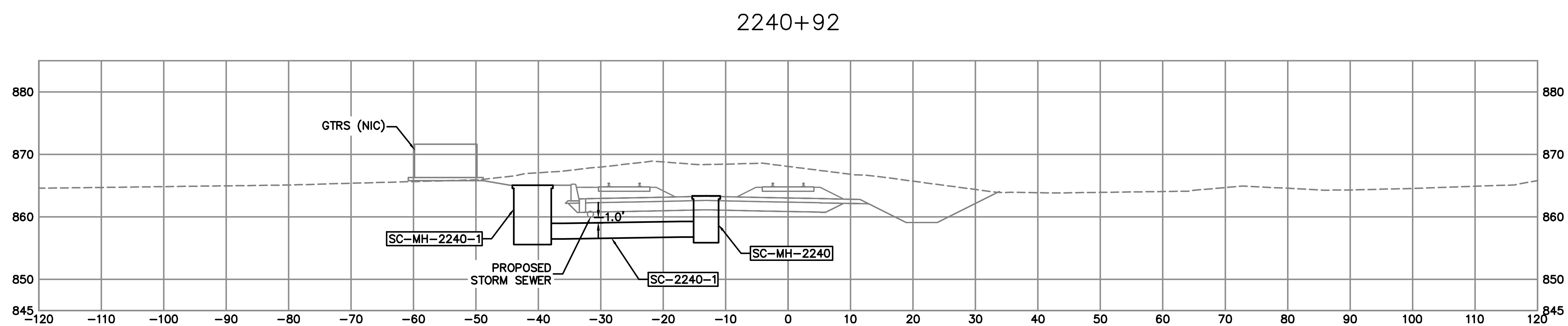
DISCIPLINE: SYSTEMS

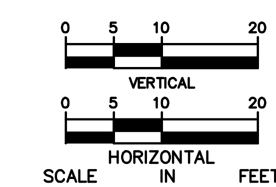
SHEET NAME: W1-SYS-SWE-SEC-002

SHEET 272 OF 464

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-GLT-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.







NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

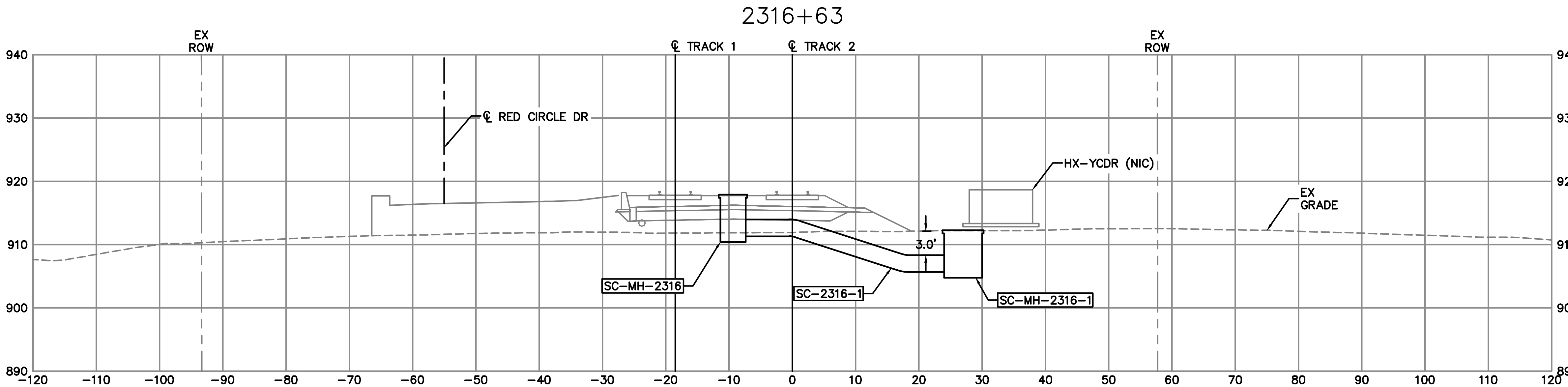
90% SUBMISSION - 01/22/16

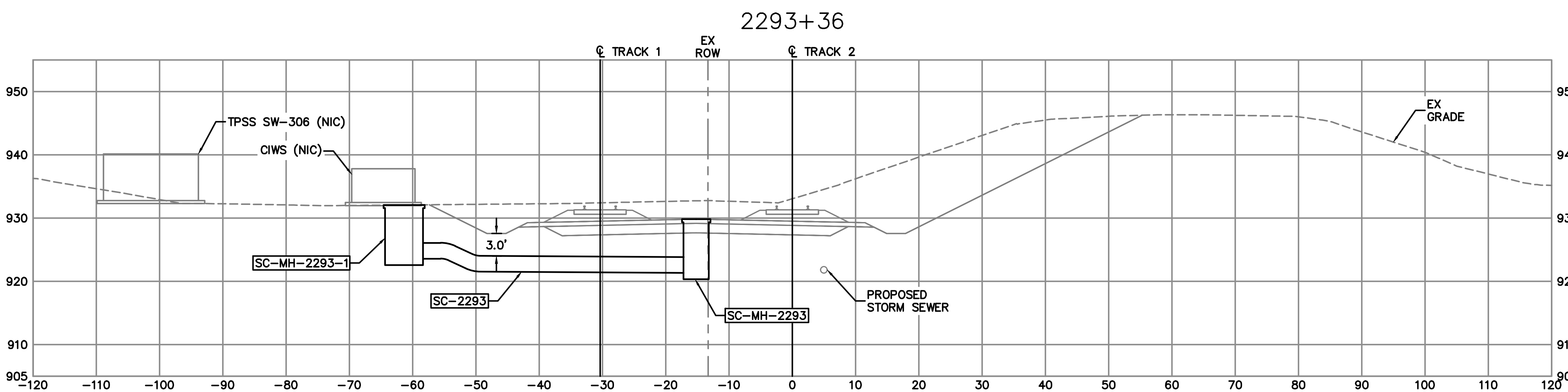
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 3

DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SEC-001

SHEET 273 OF 464





SCALE IN FEET: VERTICAL 0 5 10 20; HORIZONTAL 0 5 10 20

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 4

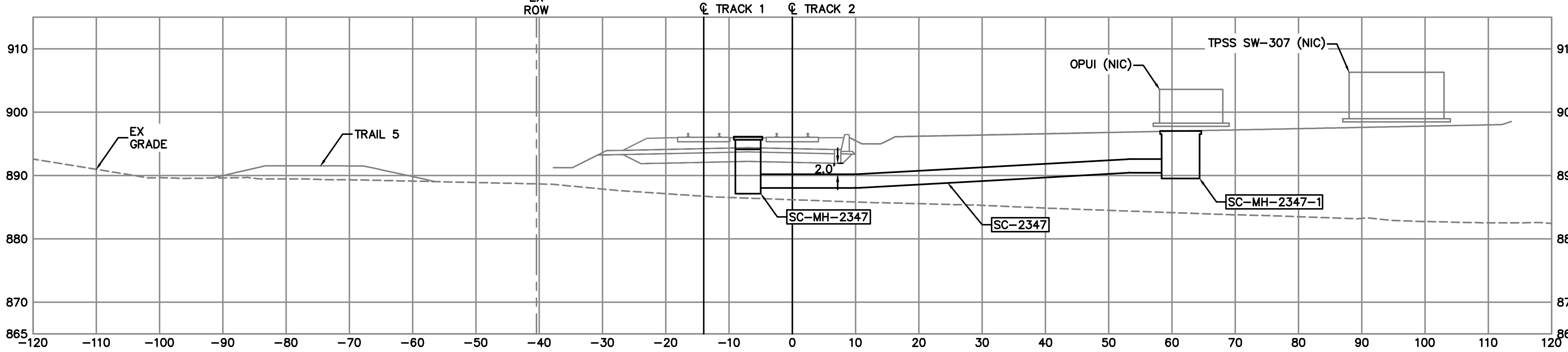
DISCIPLINE: SYSTEMS

SHEET NAME: W2-SYS-SWE-SEC-002

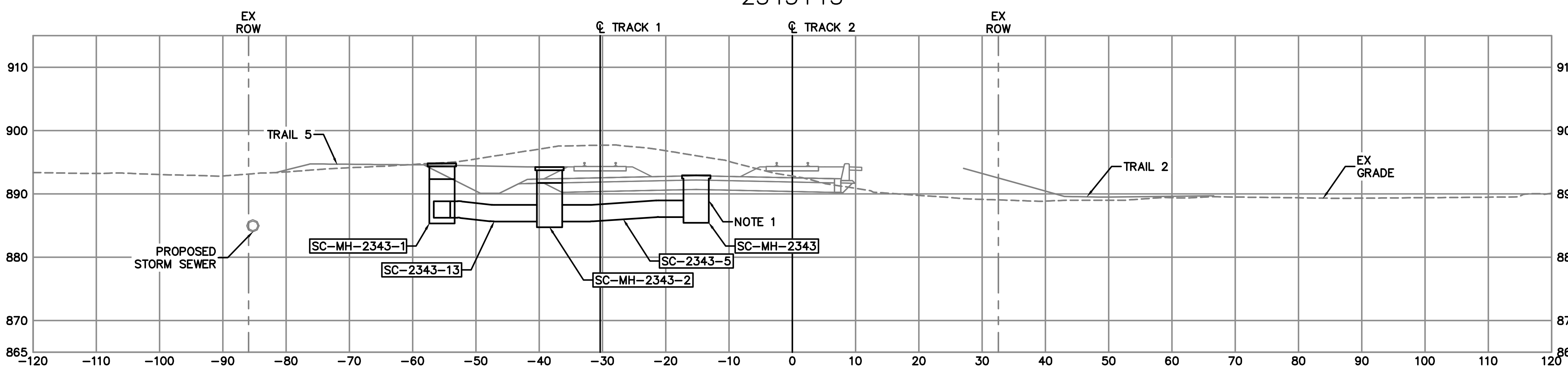
SHEET 274 OF 464

NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-OPS-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE COMMUNICATIONS CABINET.

2347+58



2343+15



0 5 10 20
VERTICAL
0 5 10 20
SCALE HORIZONTAL IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

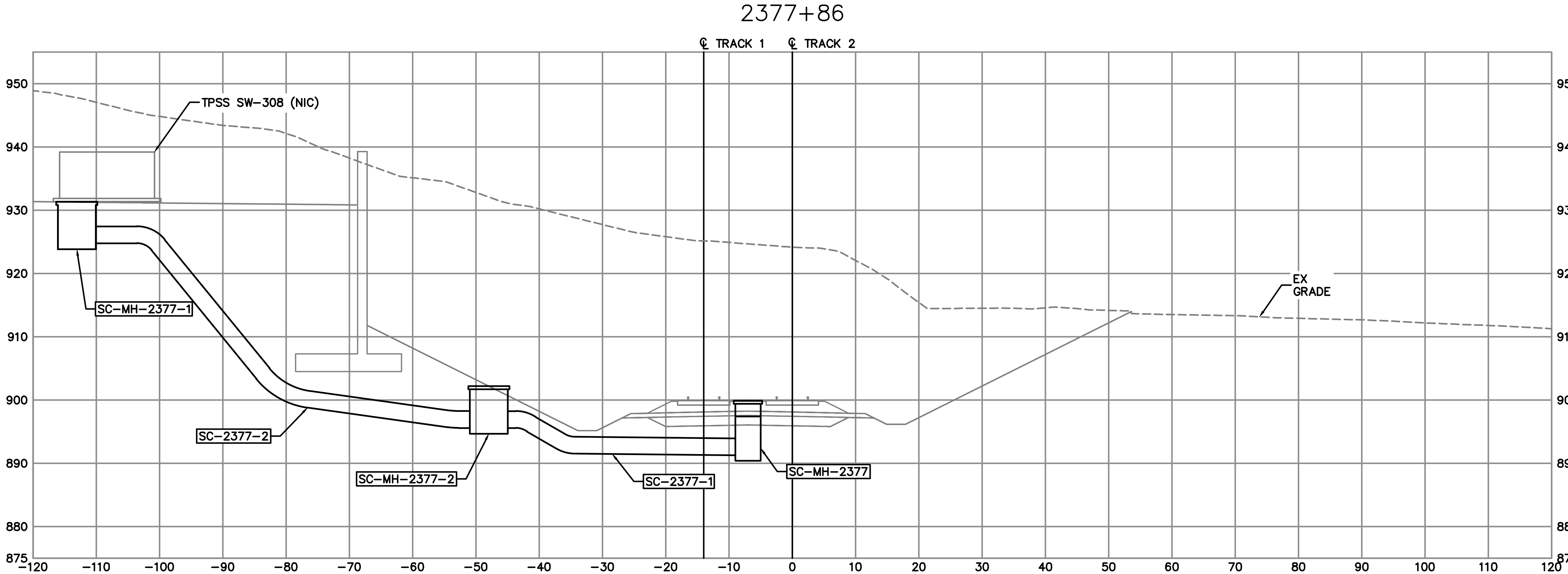
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 5

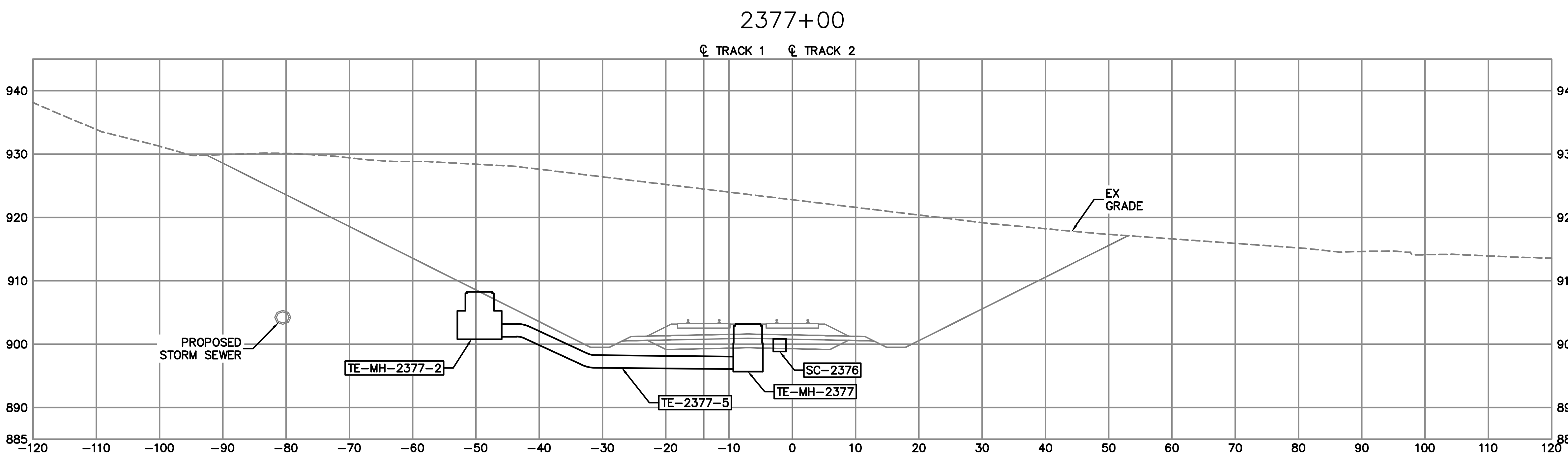
DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SEC-001

SHEET 275 OF 464

Jan. 15 2016 12:43 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\W3-SYS-SWE-XSEC.dwg By: V-TranTT





SCALE IN FEET
VERTICAL 0 5 10 20
HORIZONTAL 0 5 10 20

Jan, 15 2016 12:43 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\W3-SYS-SWE-XSEC.dwg By: V-TranTT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 6

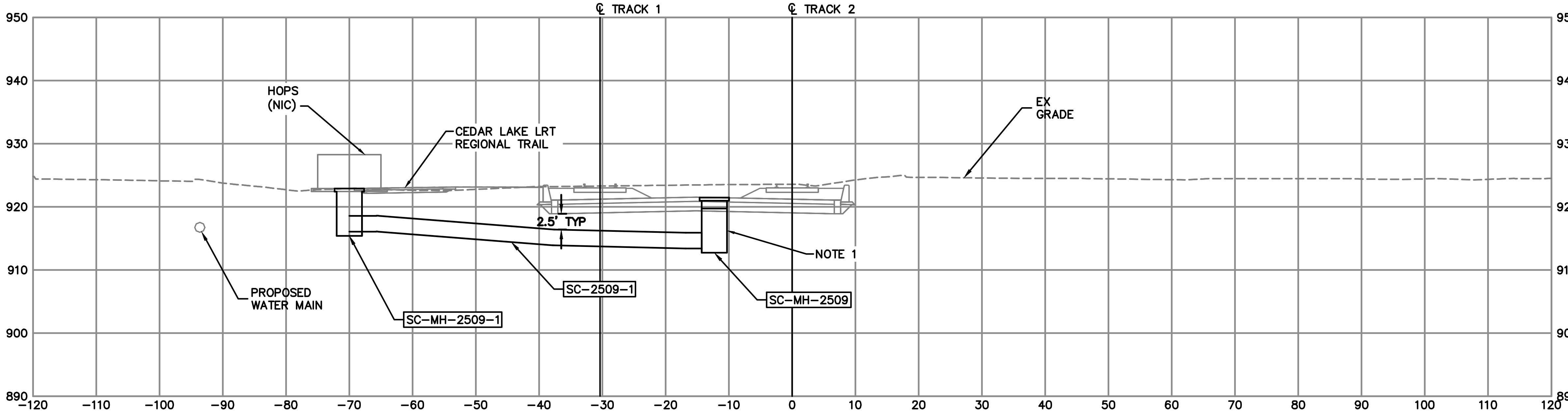
DISCIPLINE: SYSTEMS

SHEET NAME: W3-SYS-SWE-SEC-002

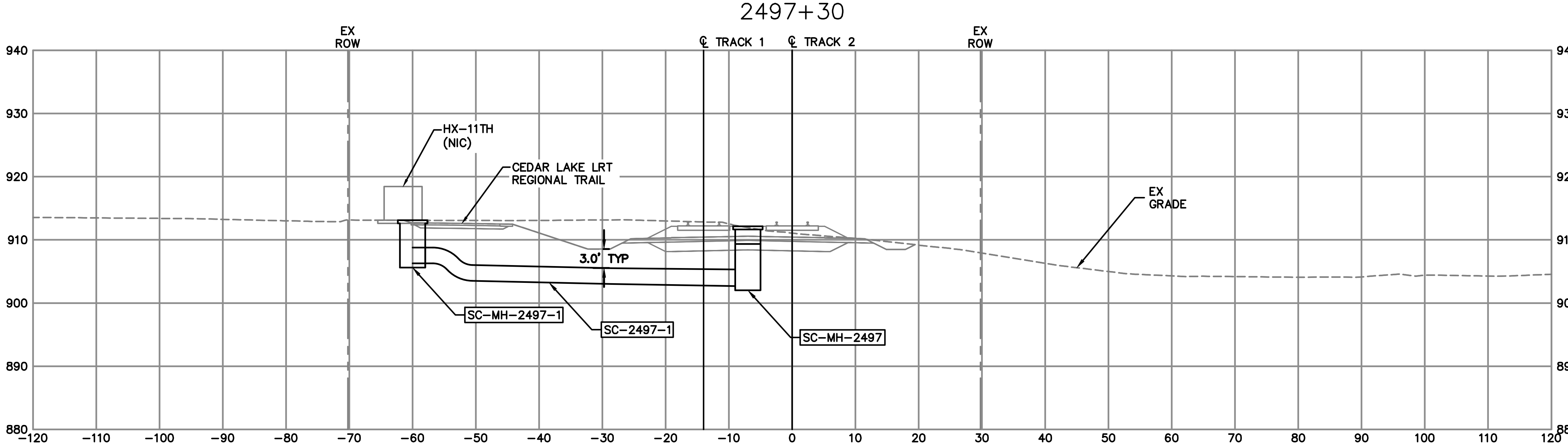
SHEET 276 OF 464

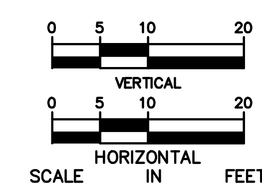
NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

2509+60



2497+30





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 7

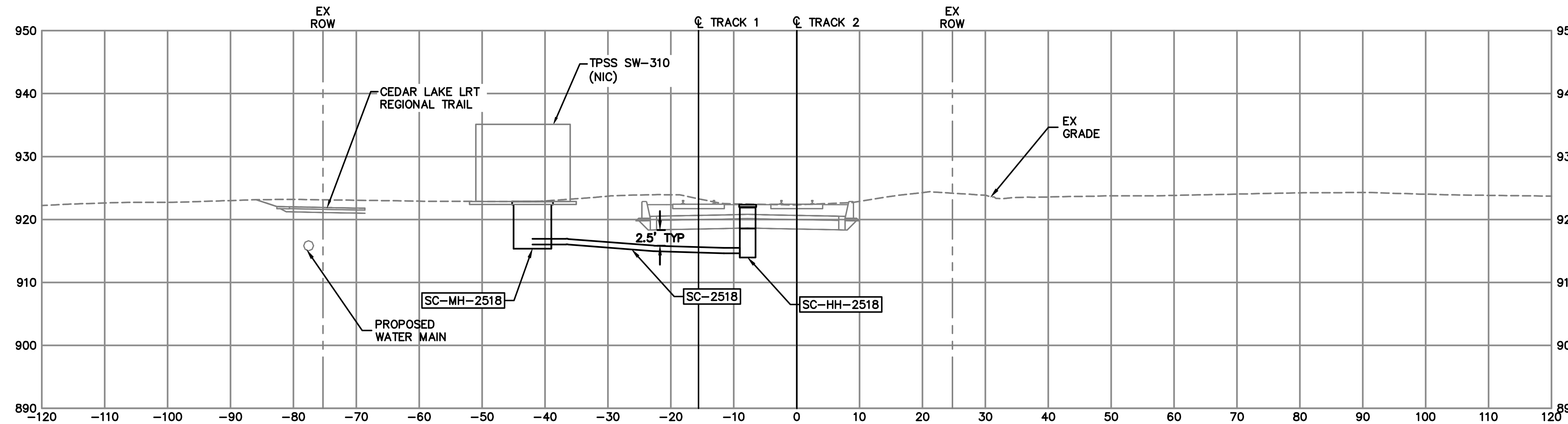
DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SEC-001

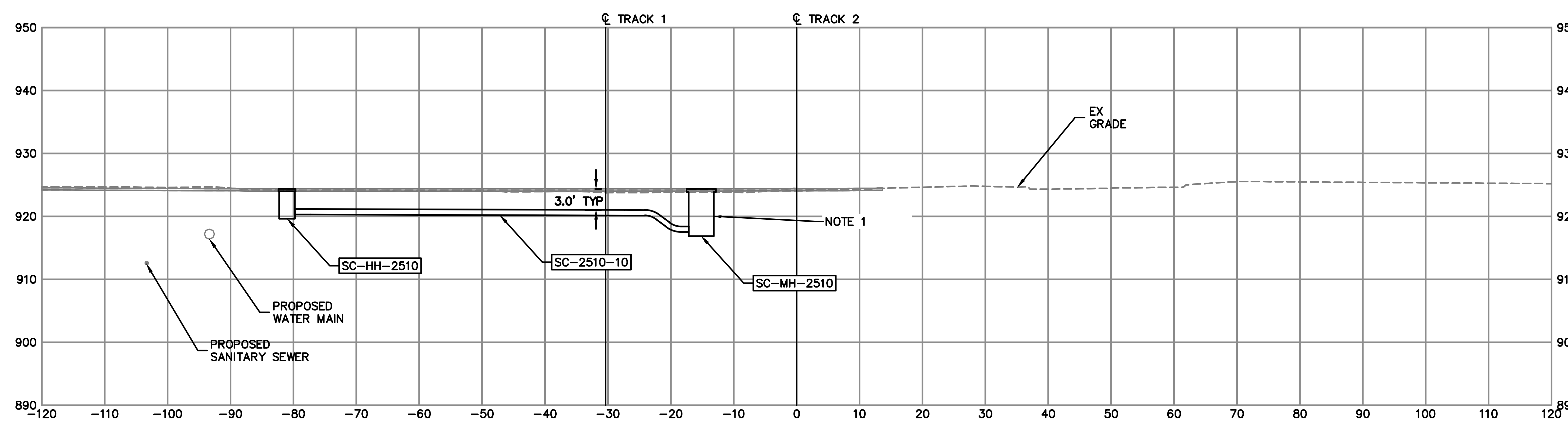
SHEET 277 OF 464

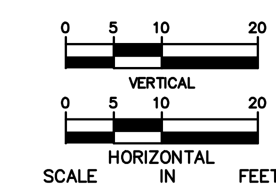
NOTES:
1. SEE VOLUME 10B LIGHTING SHEET W2-HOP-ELE-PLN-101 FOR CONDUIT ROUTING TO PARK AND RIDE/BUS OPERATOR FACILITY COMMUNICATIONS CABINET.

2518+20



2510+40





Jan, 18 2016 09:22 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E1-SYS-SWE-XSEC.dwg By: V-MccallAE

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 8

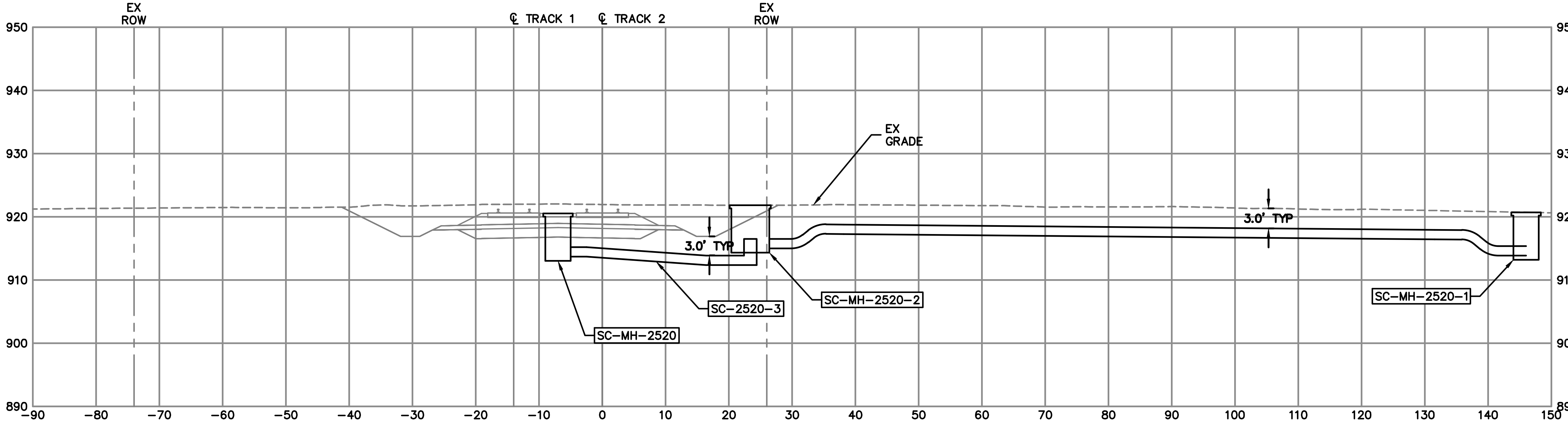
DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SWE-SEC-002

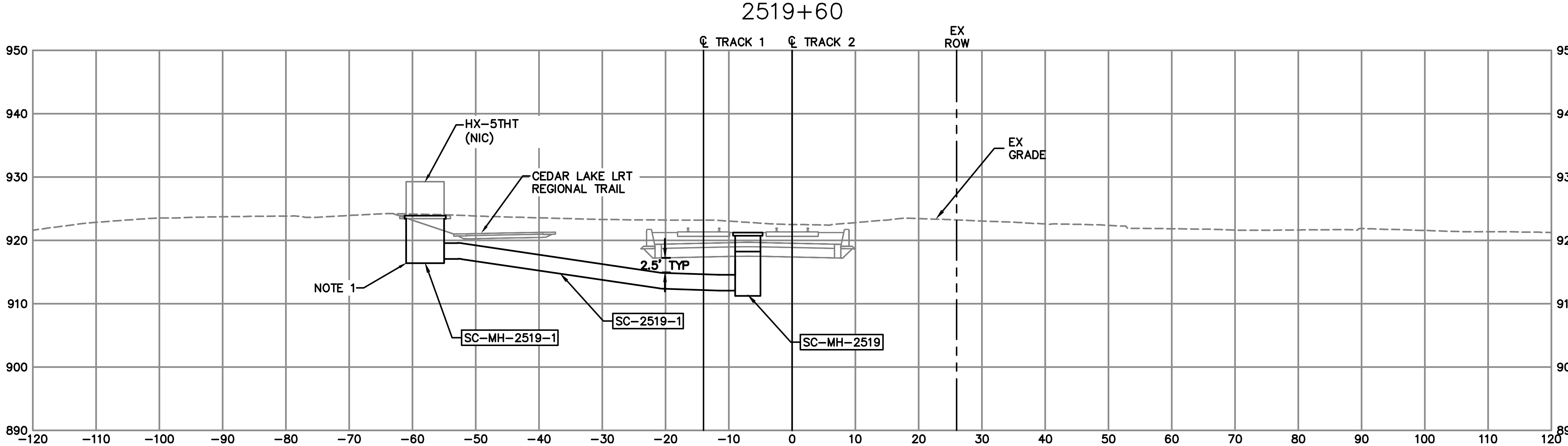
SHEET 278 OF 464

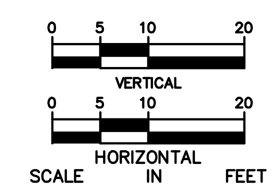
NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.

2520+50



2519+60





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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

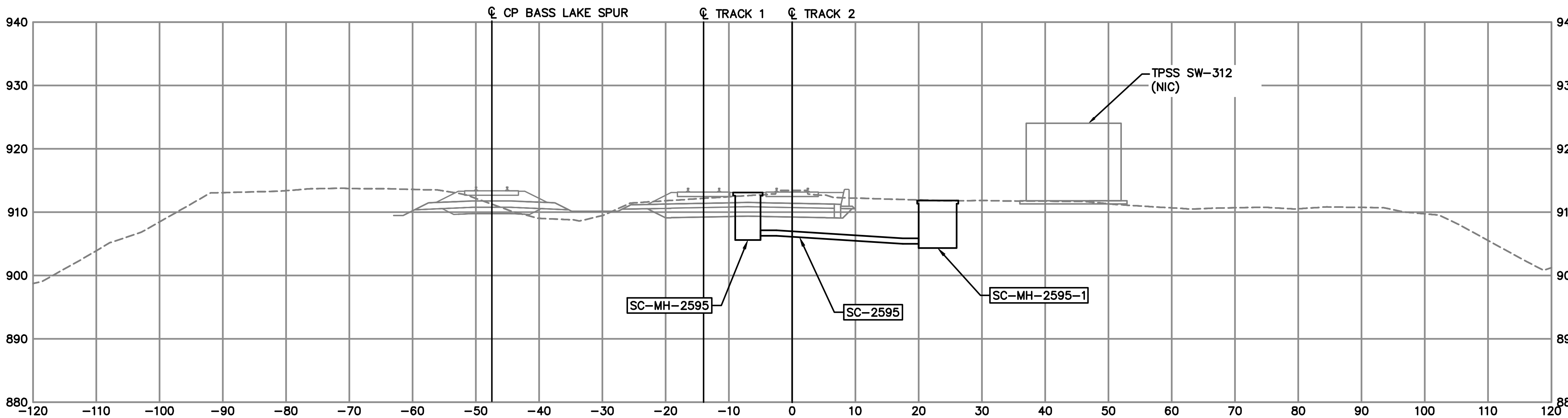
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 9

DISCIPLINE: SYSTEMS

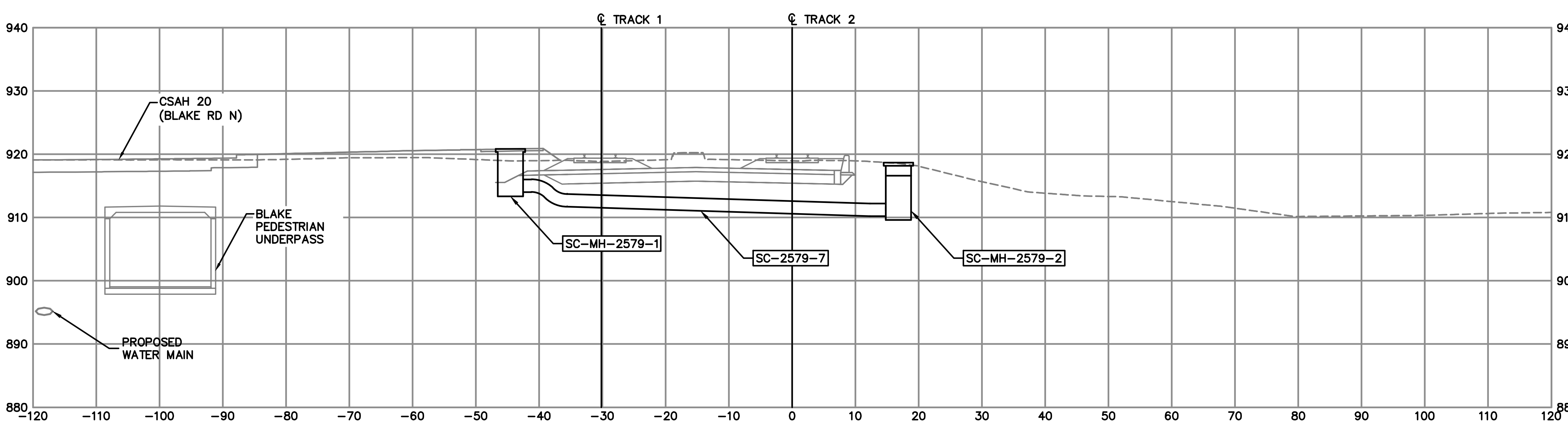
SHEET NAME: E1-SYS-SWE-SEC-003

SHEET 279 OF 464

2595+20



2579+60



0 5 10 20
VERTICAL
0 5 10 20
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

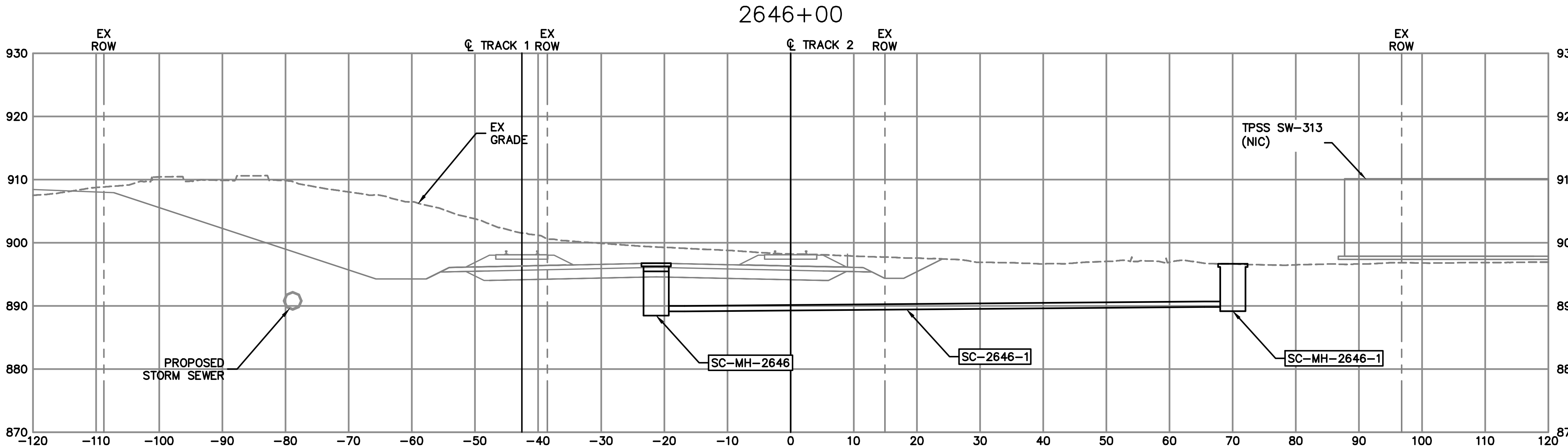
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 10

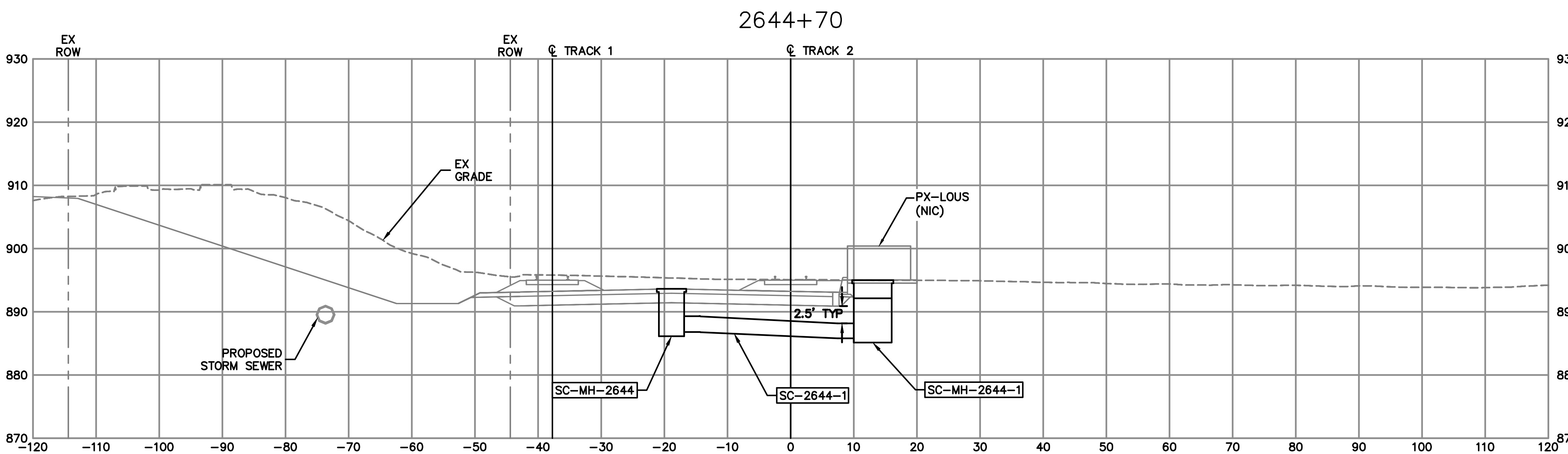
DISCIPLINE: SYSTEMS

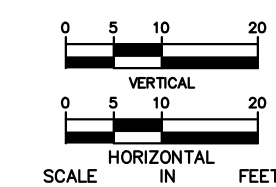
SHEET NAME: E1-SYS-SWE-SEC-004

SHEET 280 OF 464

Jan, 18 2016 09:44 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E1-SYS-SWE-XSEC.dwg By: V-McollAE







NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 11

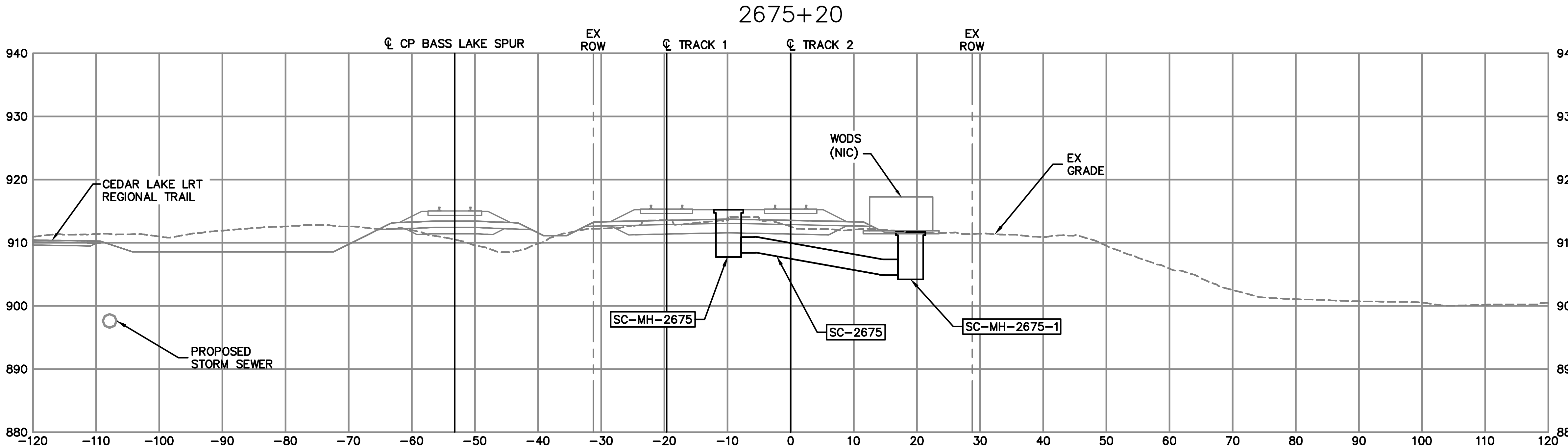
DISCIPLINE: SYSTEMS

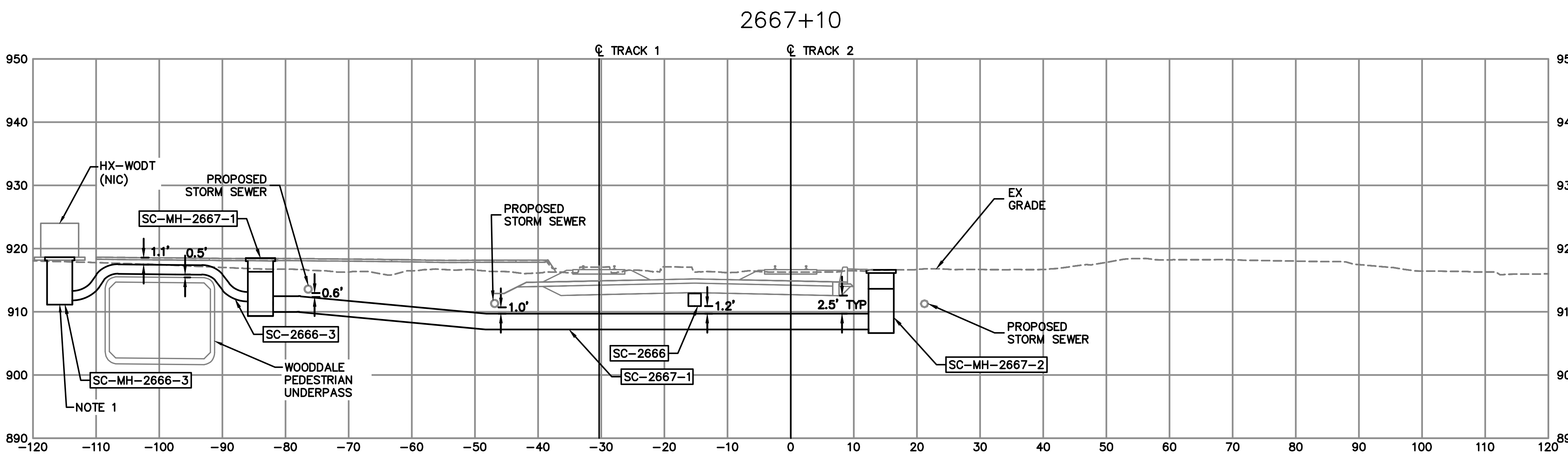
SHEET NAME: E2-SYS-SWE-SEC-001

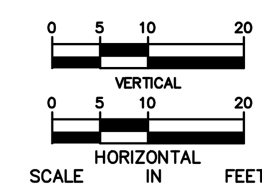
SHEET 281 OF 464

Jan, 18 2016 09:26 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E2-SYS-SWE-XSEC.dwg By: V-MccallAE

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.







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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

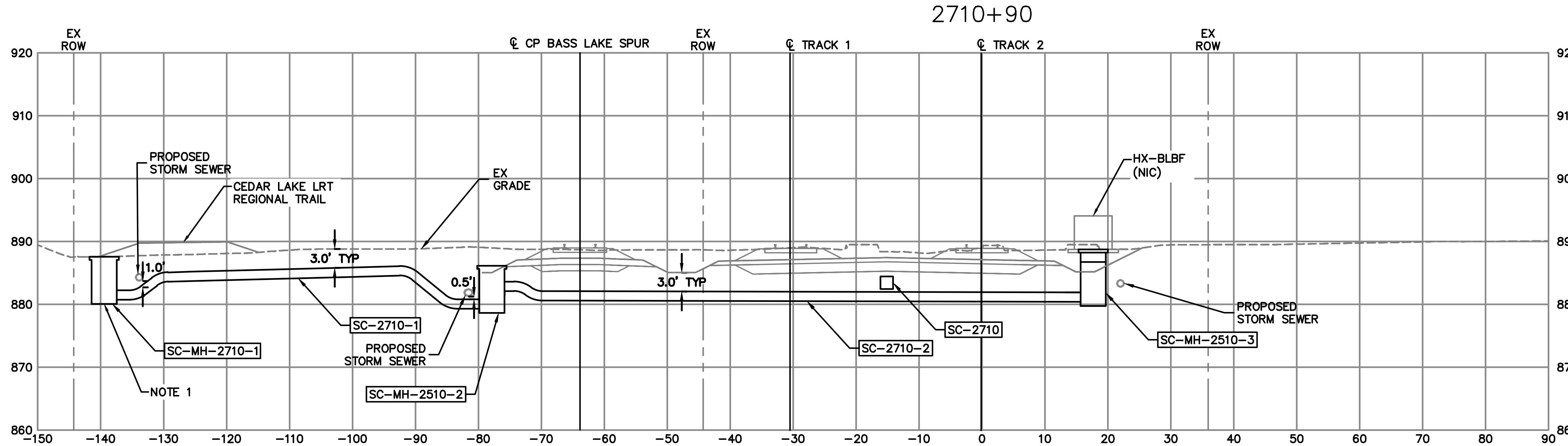
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 12

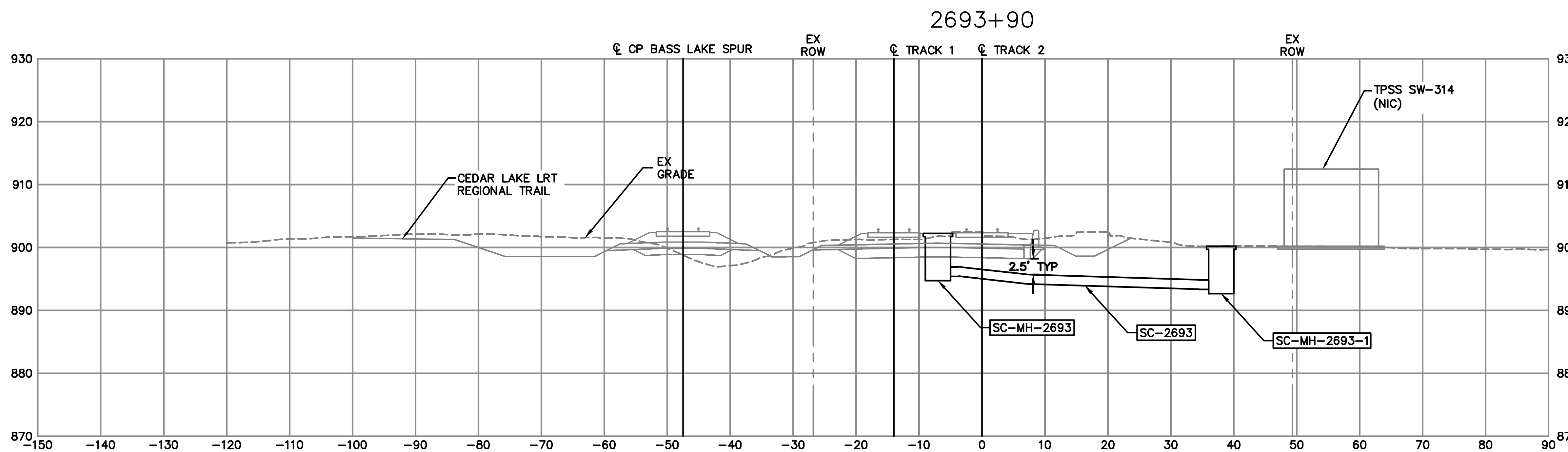
DISCIPLINE: SYSTEMS

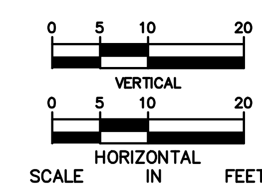
SHEET NAME: E2-SYS-SWE-SEC-002

SHEET 282 OF 464

NOTES:
1. SEE VOLUME 10A TRAFFIC FOR TRAFFIC CONDUIT.







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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

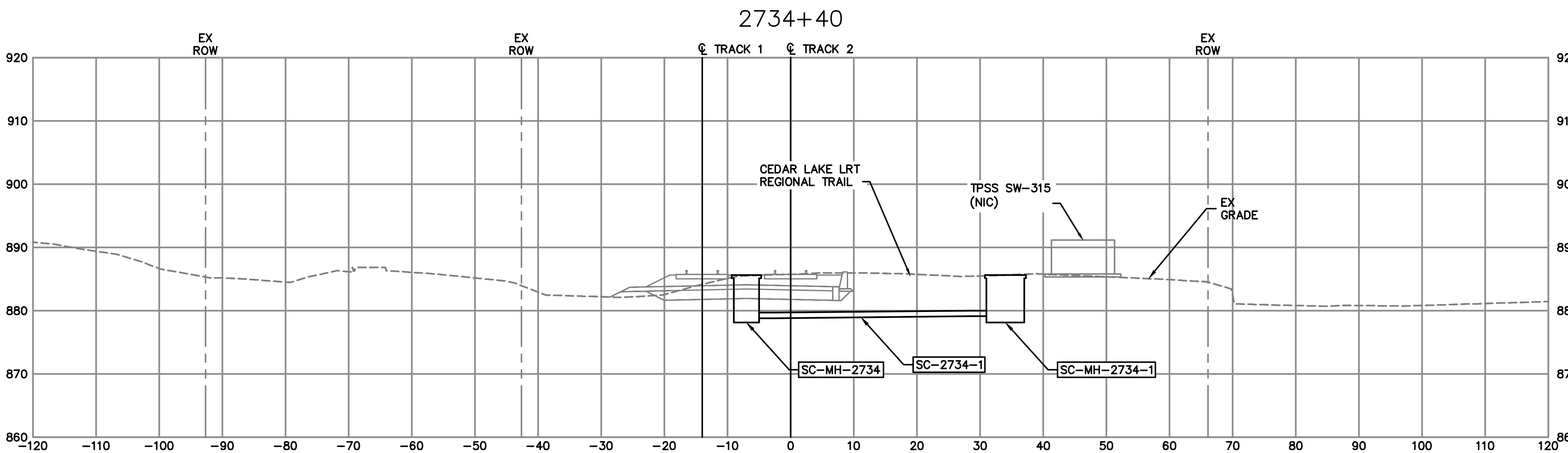
SOUTHWEST Green Line LRT Extension

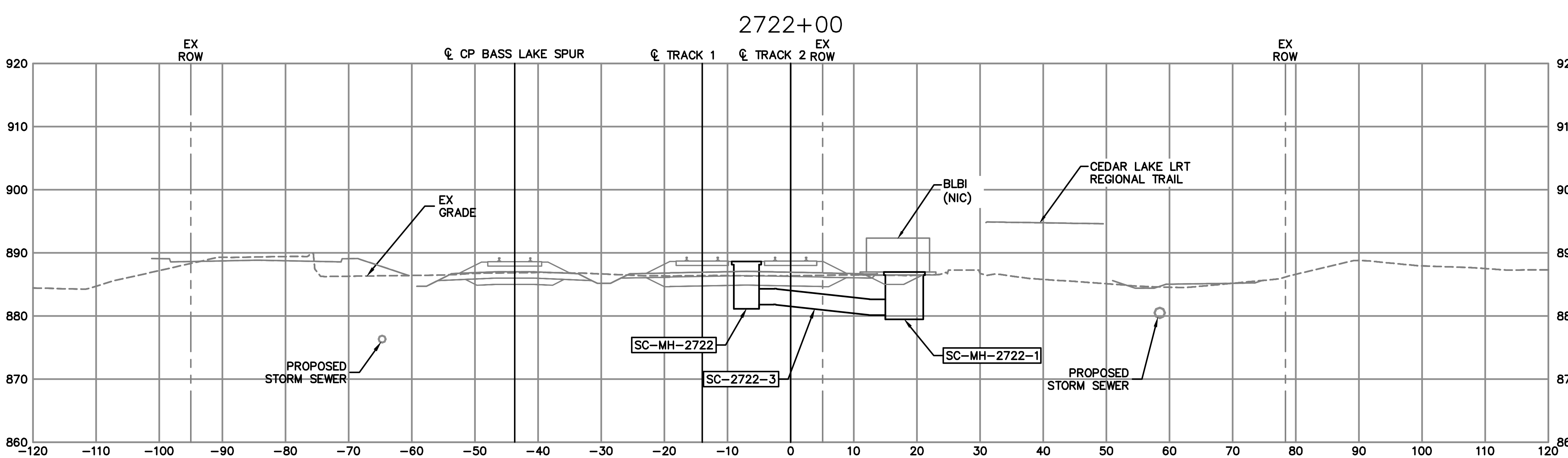
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 13

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SEC-003

Jan, 18 2016 09:30 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E2-SYS-SWE-XSEC.dwg By: V-McallAE





0 5 10 20
VERTICAL
0 5 10 20
SCALE HORIZONTAL IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 14

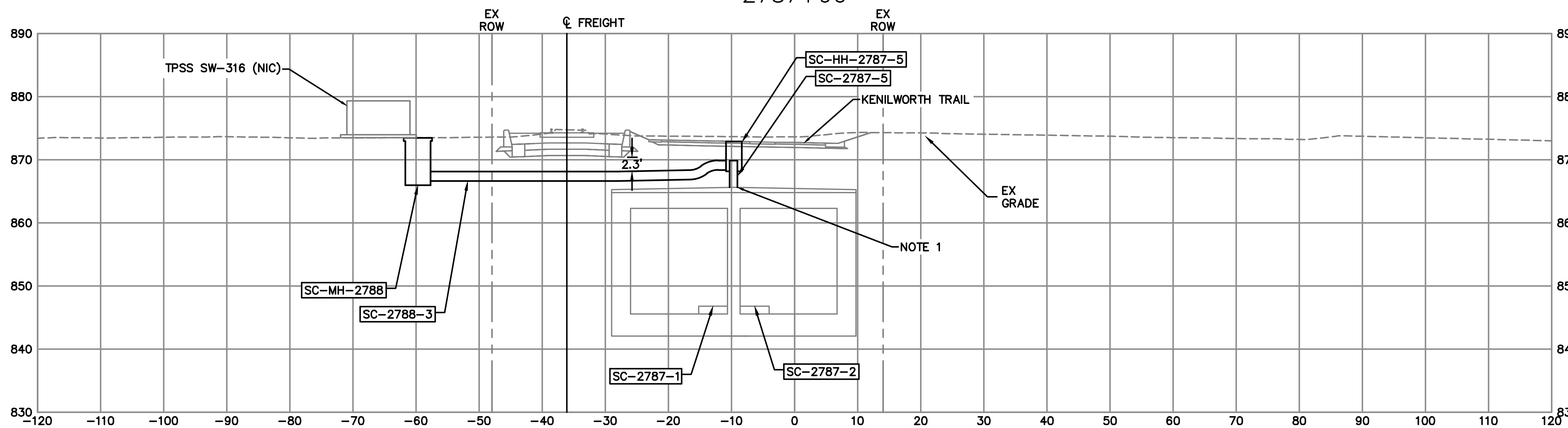
DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SWE-SEC-004

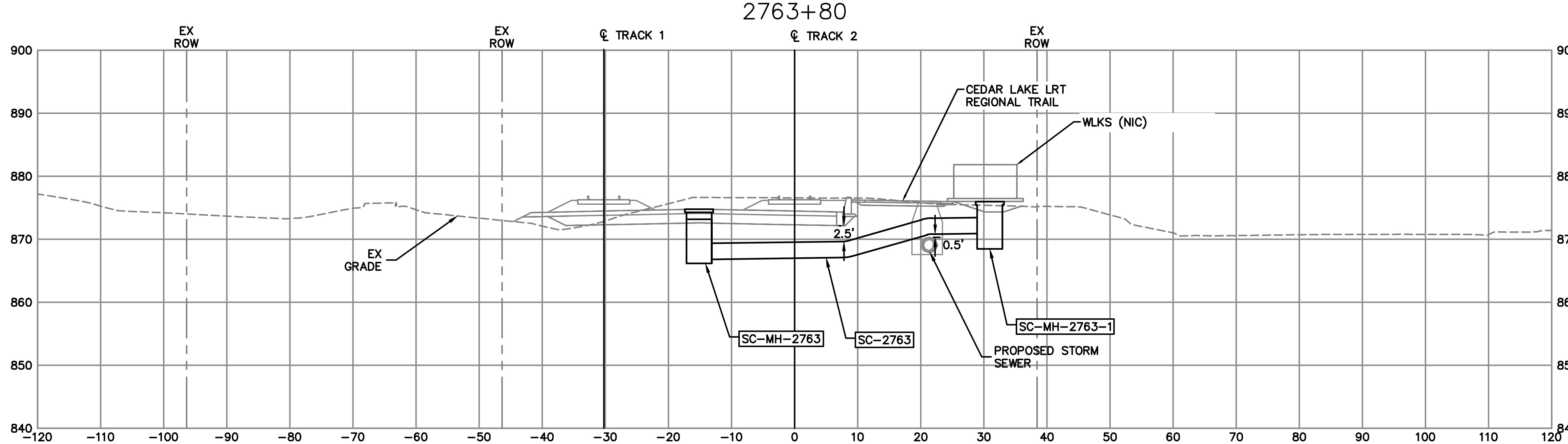
SHEET 284 OF 464

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.

2787+90



2763+80



VERTICAL 0 5 10 20
HORIZONTAL 0 5 10 20
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 15

DISCIPLINE: SYSTEMS

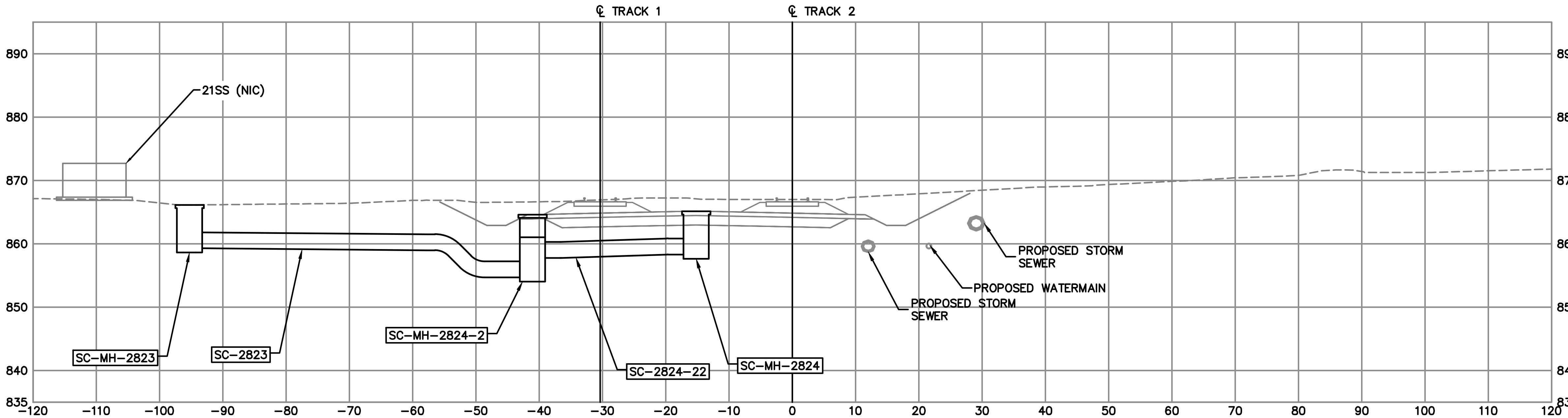
SHEET NAME: E3-SYS-SWE-SEC-001

SHEET 285 OF 464

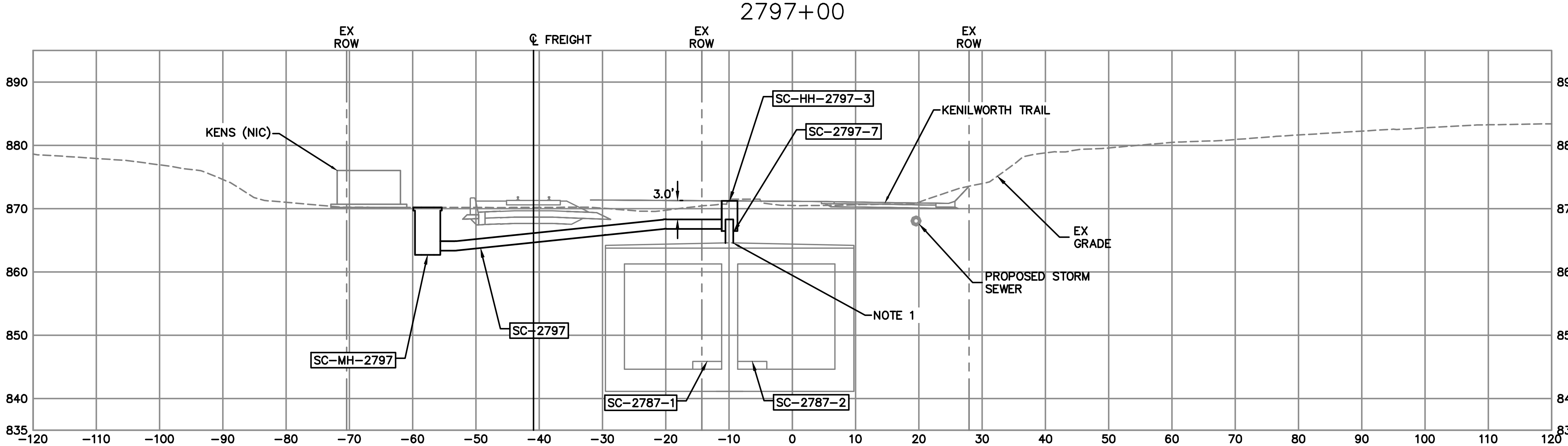
Jan, 18 2016 08:40 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E3-SYS-SWE-XSEC.dwg By: V-CameroAD

NOTES:
1. SEE VOLUME 5 TUNNELS FOR CONTINUATION OF CONDUITS.

2824+10



2797+00



SCALE IN FEET: VERTICAL 0 5 10 20; HORIZONTAL 0 5 10 20

Jan, 18 2016 08:40 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E3-SYS-SWE-XSEC.dwg By: V-CameroAD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 16

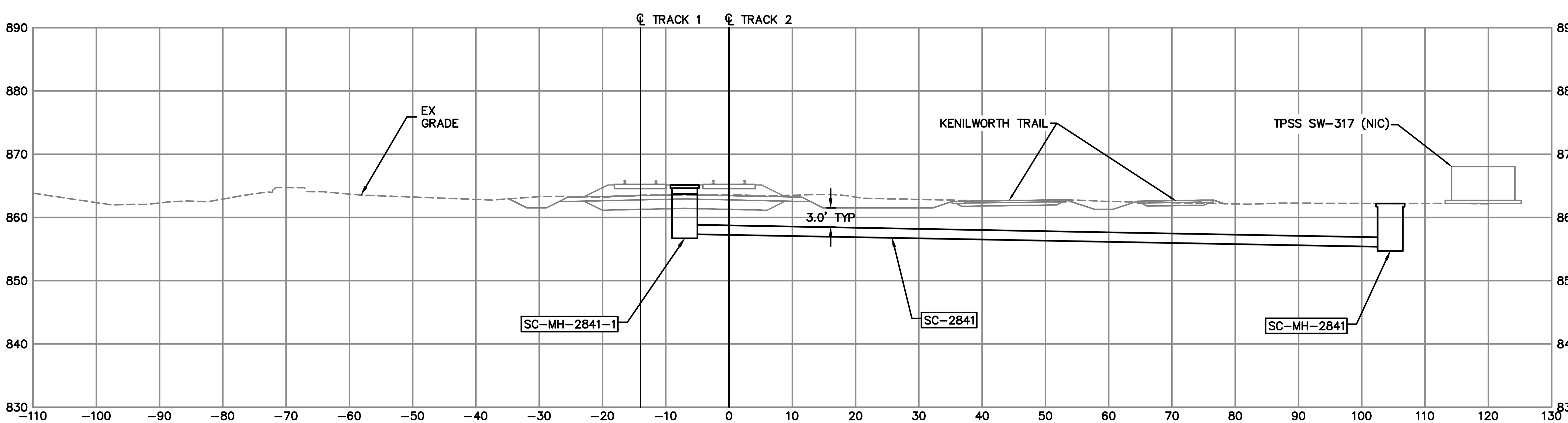
DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SWE-SEC-002

SHEET 286 OF 464

Jan. 18 2016 08:41 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E3-SYS-SWE-XSEC.dwg By: V-CameroAD

2841+80



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

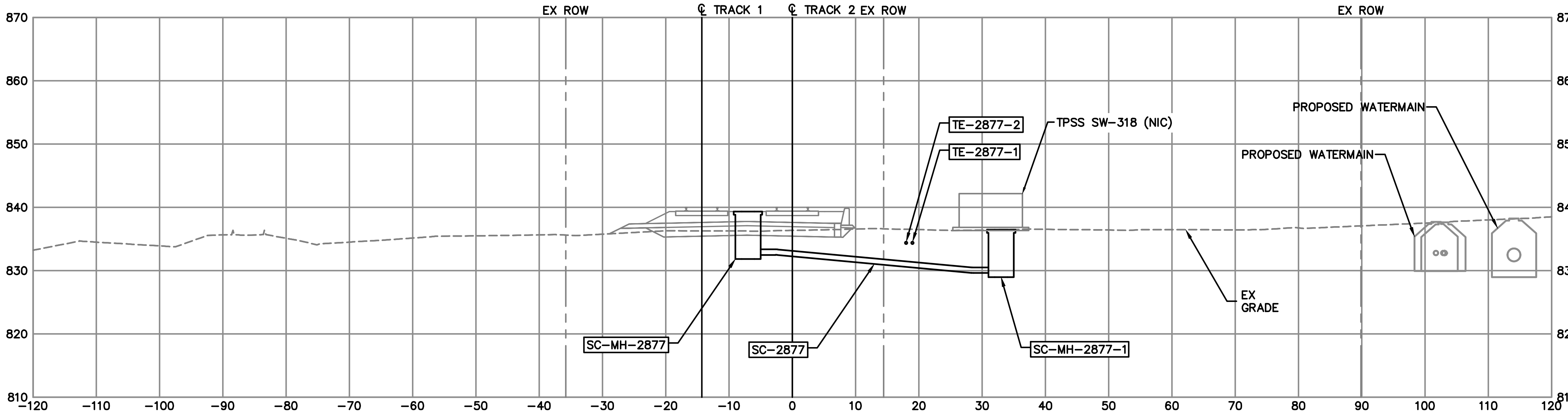
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 17

DISCIPLINE: SYSTEMS

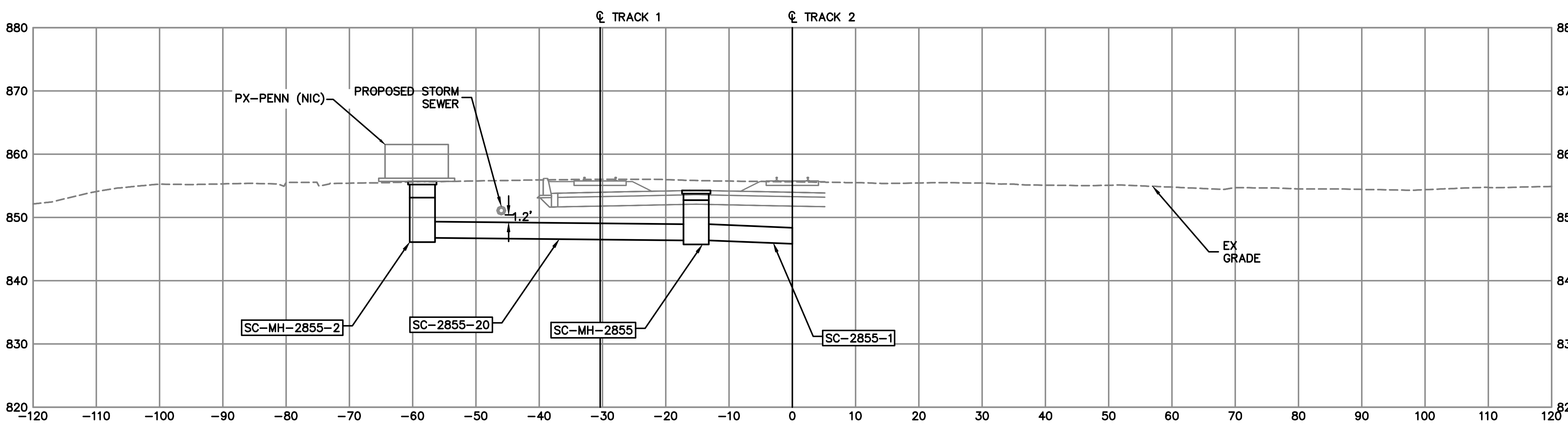
SHEET NAME: E3-SYS-SWE-SEC-003

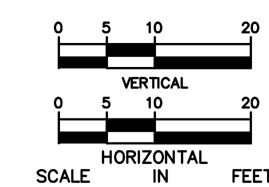
SHEET 287 OF 464

2877+50



2855+40





Jan, 18 2016 08:33 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E4-SYS-SWE-XSEC.dwg By: V-CameroAD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

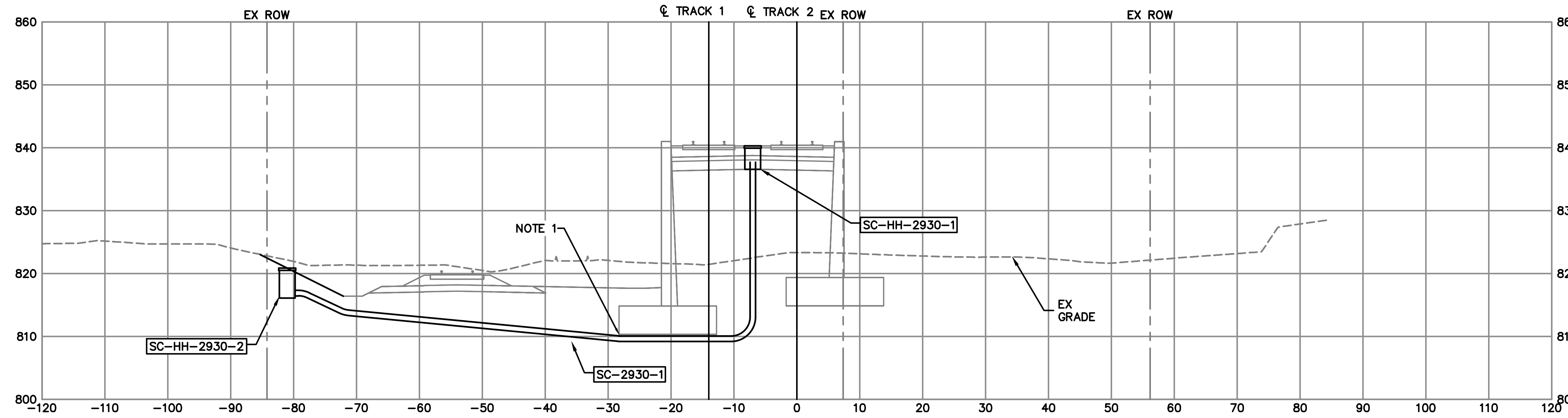
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 18

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SEC-001

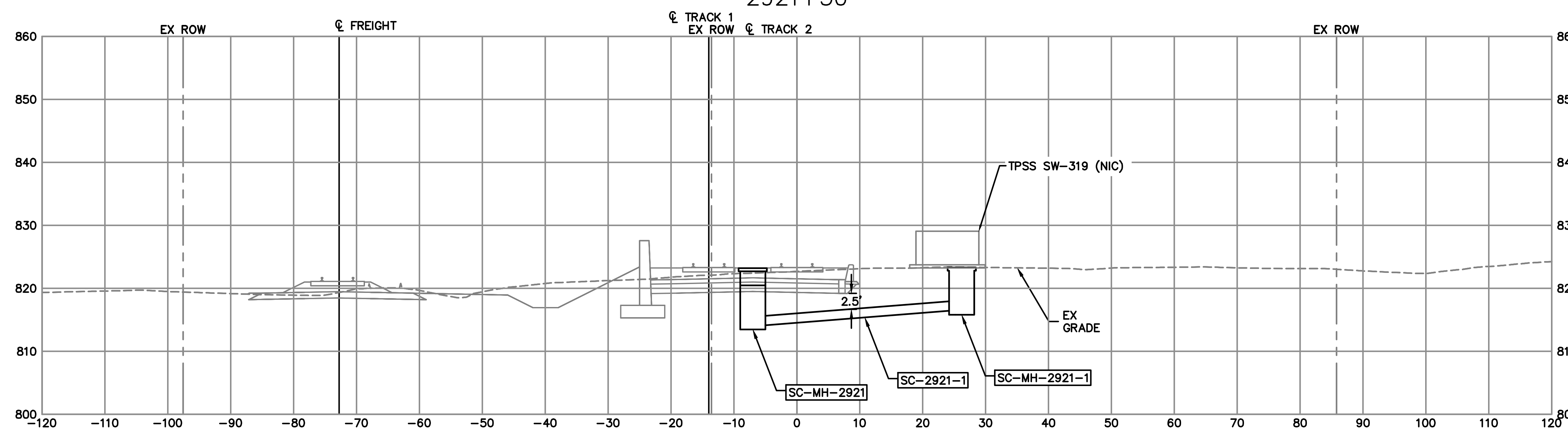
SHEET 288 OF 464

2930+70



NOTES:
1. PLACE 3" THICK COMPRESSIBLE LOW DENSITY EXPANDED POLYSTYRENE (EPS) PRODUCT BY CLAYMASTER OR EQUAL BETWEEN TOP OF DUCTBANK AND RETAING WALL FOUNDATION.

2921+30



0 5 10 20 VERTICAL
0 5 10 20 HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 19

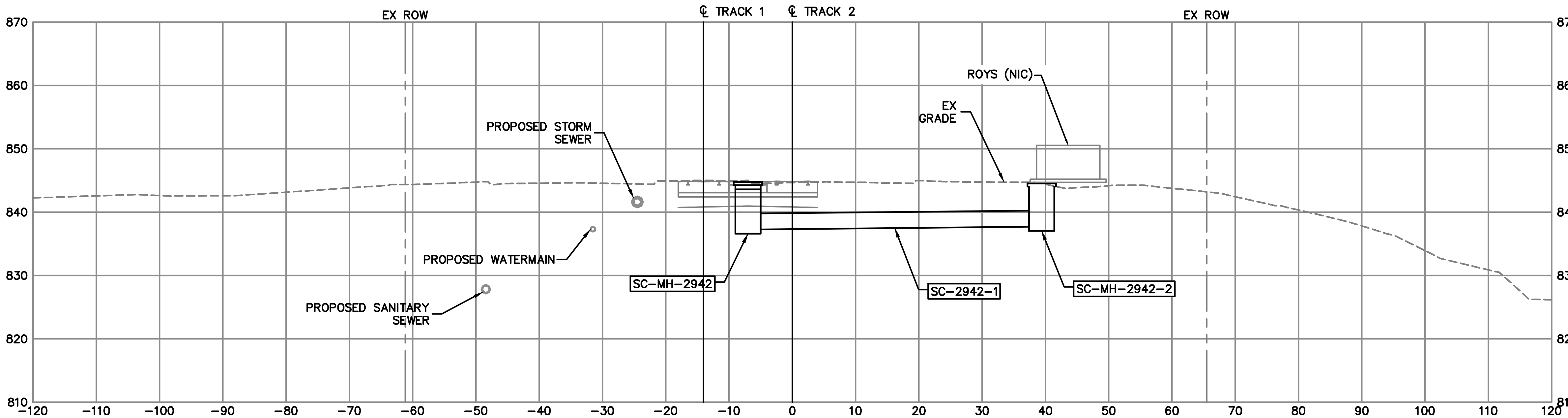
DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SEC-002

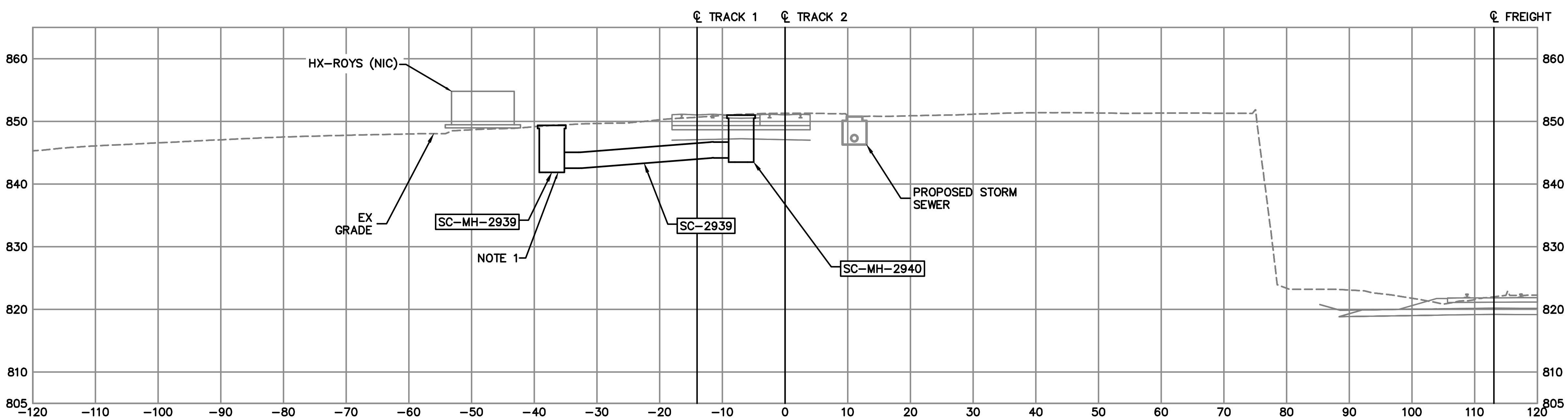
SHEET 289 OF 464

NOTES:
1. SEE 10A TRAFFIC FOR TRAFFIC CONDUIT.

2942+70



2940+10



0 5 10 20
VERTICAL
0 5 10 20
SCALE HORIZONTAL IN FEET

Jan, 18 2016 08:33 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\XSEC\E4-SYS-SWE-XSEC.dwg By: V-CameroAD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

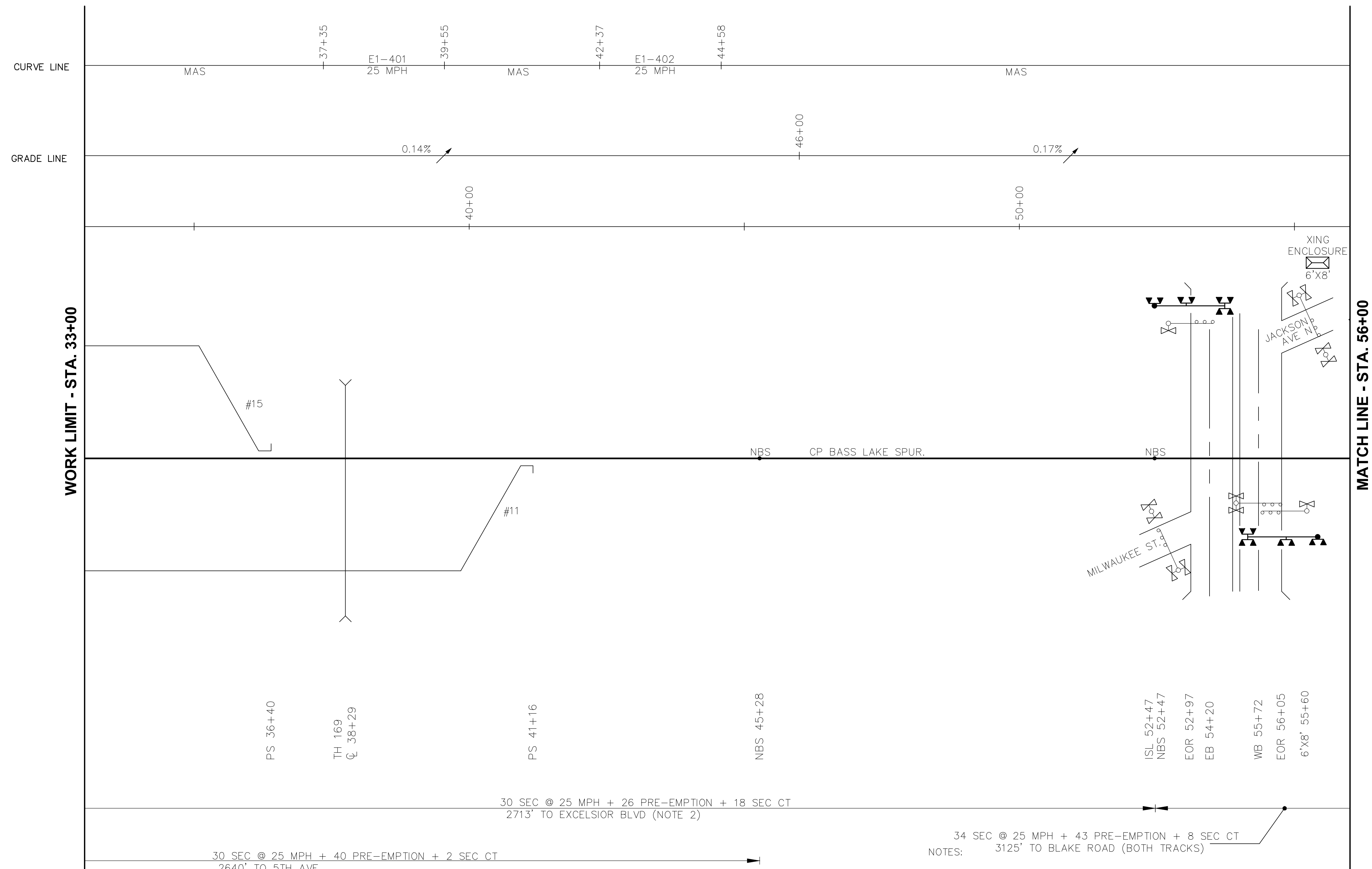
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CROSS SECTIONS
SHEET 20

DISCIPLINE: SYSTEMS

SHEET NAME: E4-SYS-SWE-SEC-003

SHEET 290 OF 464



NOTES:

1. 5TH AVE SOUTH CROSSING STARTS TO BE ADJUSTED AT EXISTING CROSSING. NEW SHUNTS TO BE INSTALLED AT LENGTH SHOWN. ADJUST STATIONING AS NEEDED BASED ON PROPOSED TRACK STATIONING AT THE REQUIRED DISTANCE.
2. EXCELSIOR BLVD SHUNTS TO BE PLACED AT LENGTH SHOWN. SHUNTS WILL BE INSTALLED ON EXISTING TRACK AS FULL EASTBOUND START NOT SHOWN.

0 50 100 200

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

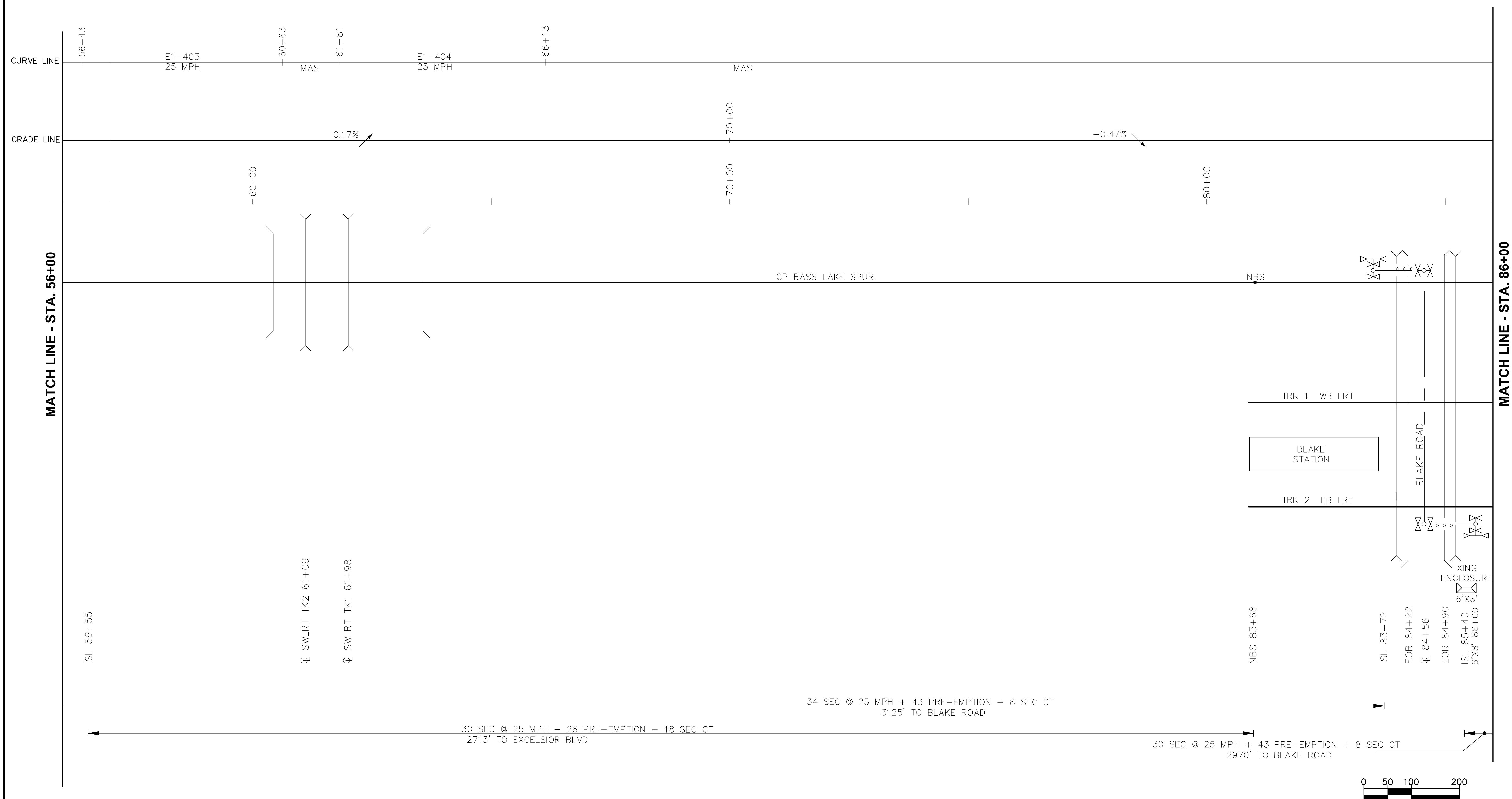
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 33+00 TO STA 56+00

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-001

SHEET 291 OF 464



Jan. 15 2016 09:44 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-002.dwg By: woodsoj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

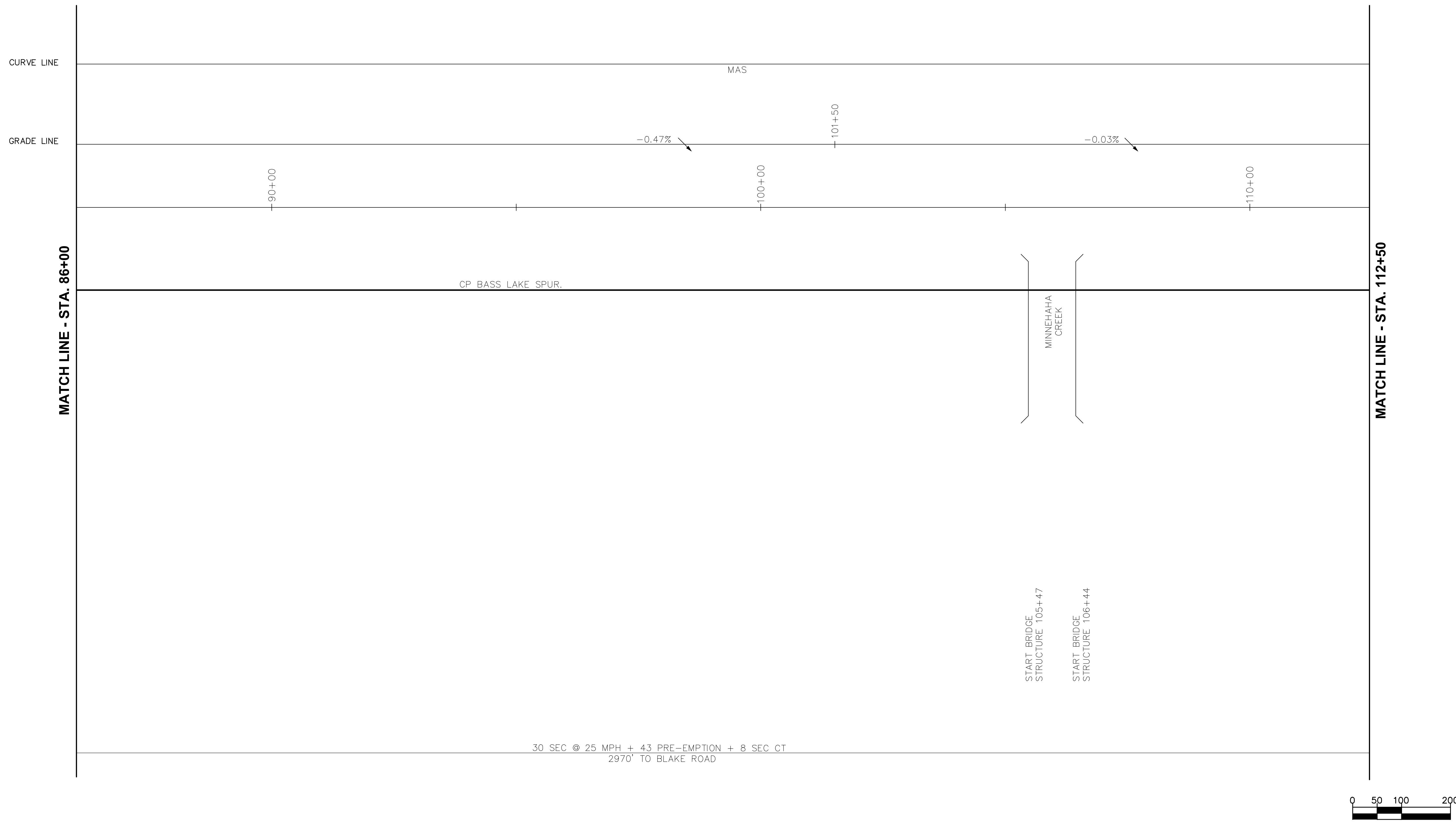
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 56+00 TO STA 86+00

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-002

SHEET 292 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

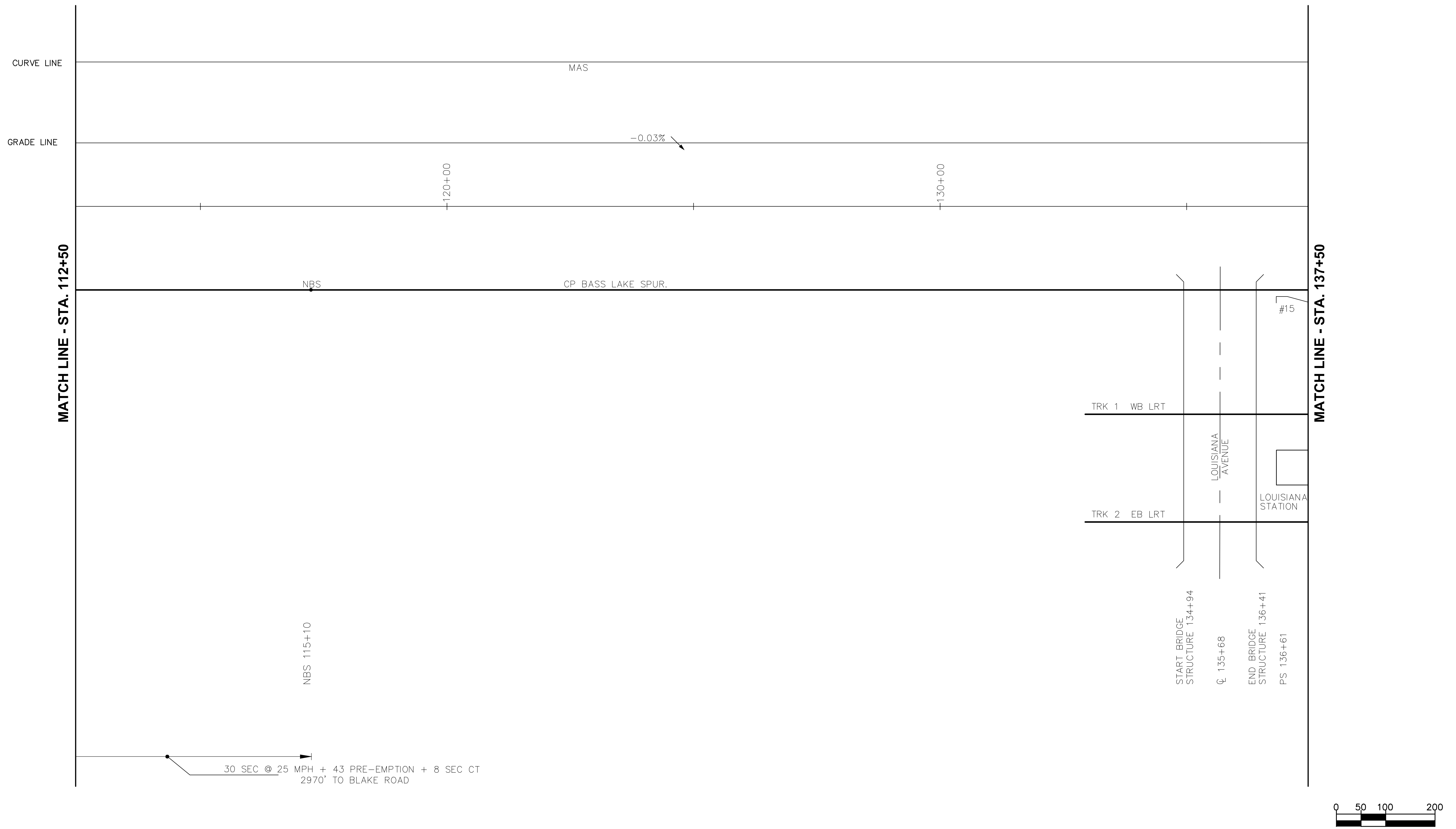
AECOM
WSP PARSONS BRINCKERHOFF
90% SUBMISSION - 01/22/2016
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 86+00 TO STA 112+50

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SIG-FRT-CLD-003

SHEET 293 OF 464

Jan. 15, 2016 09:44 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-003.dwg By: woodsoj



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

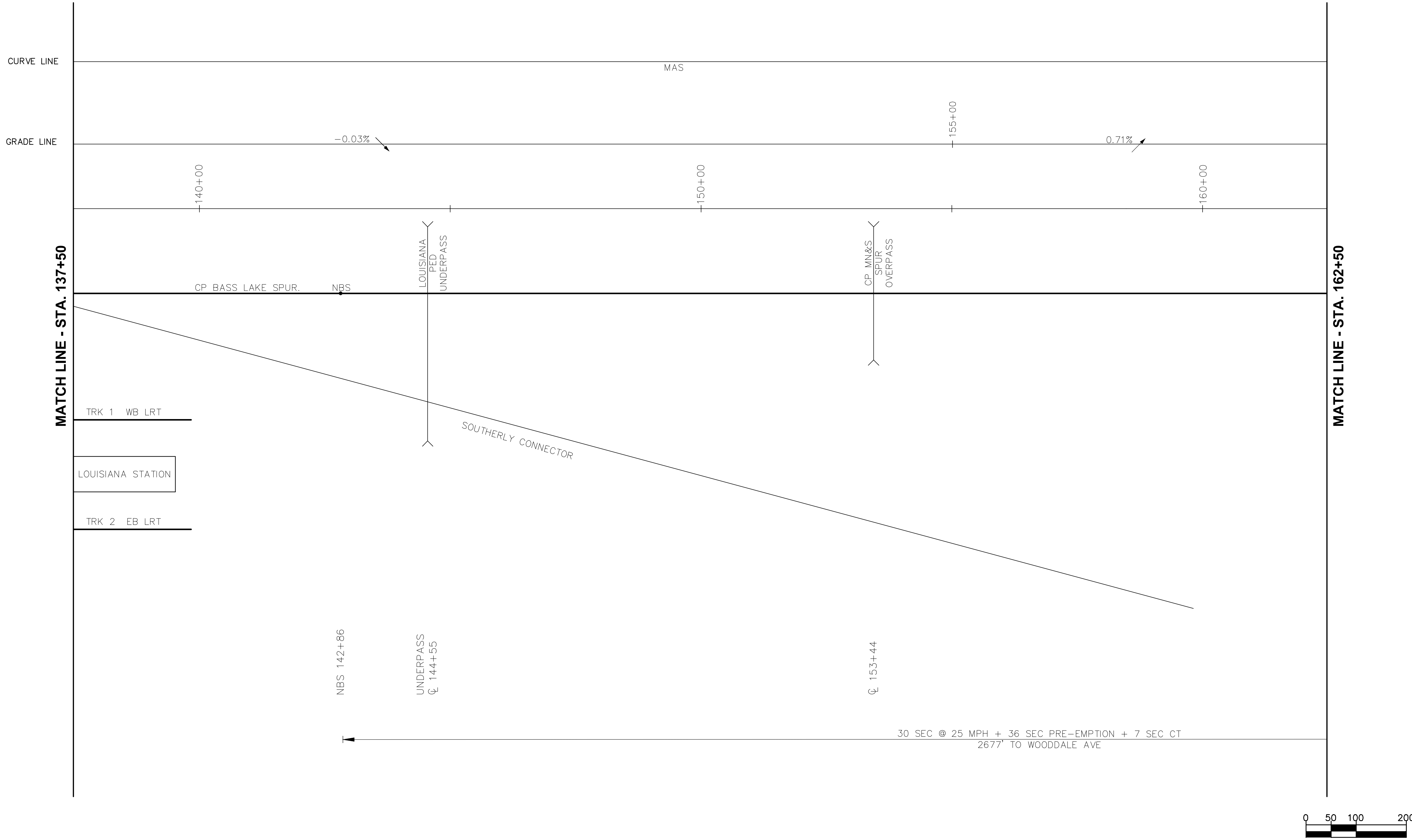
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 112+50 TO STA 137+50

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-004

SHEET 294 OF 464

Jan. 15 2016 09:45 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-004.dwg By: woodsoj



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

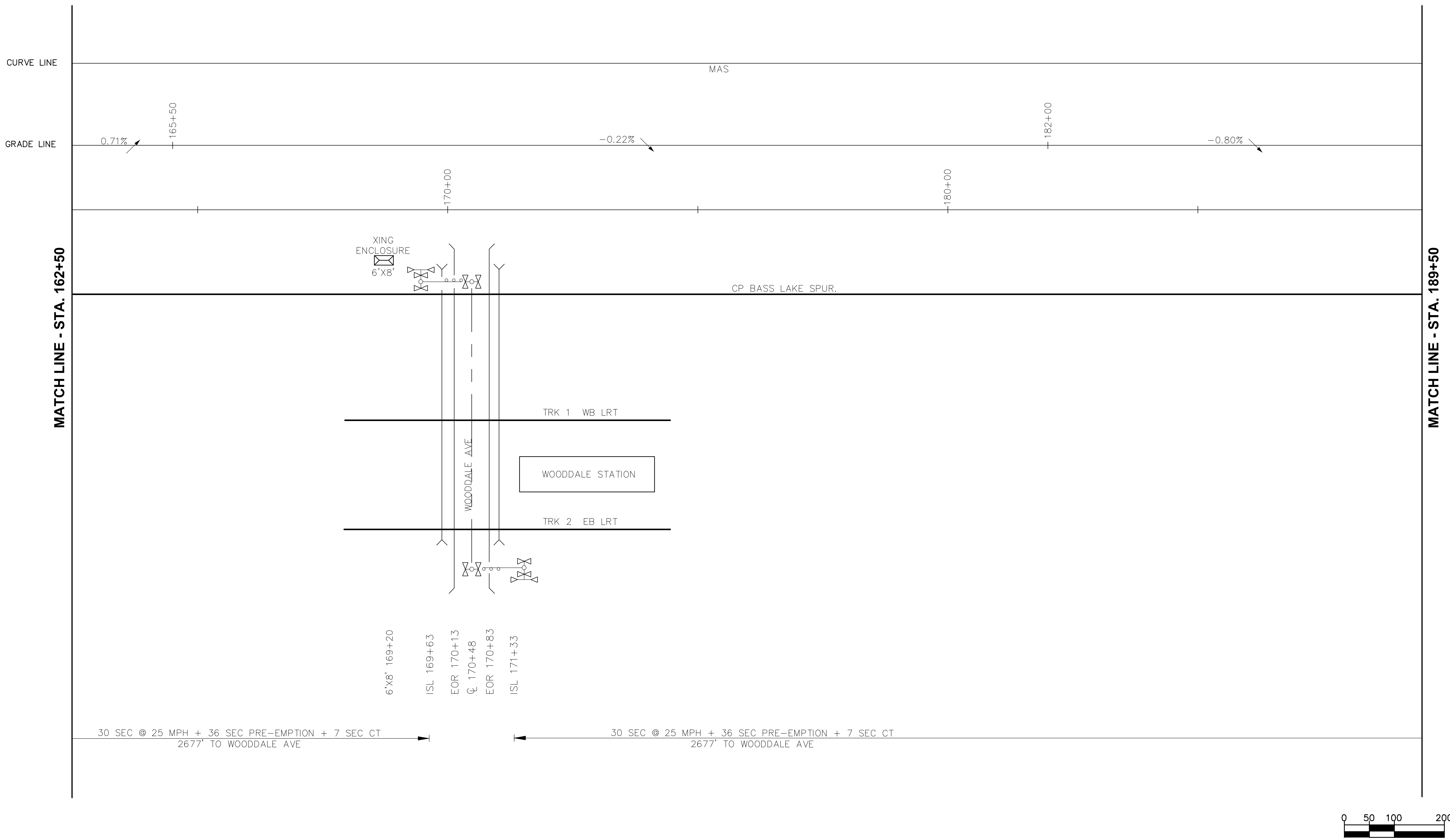
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 137+50 TO STA 162+50

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-005



Jan, 15 2016 09:45 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-006.dwg By: woodsoj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

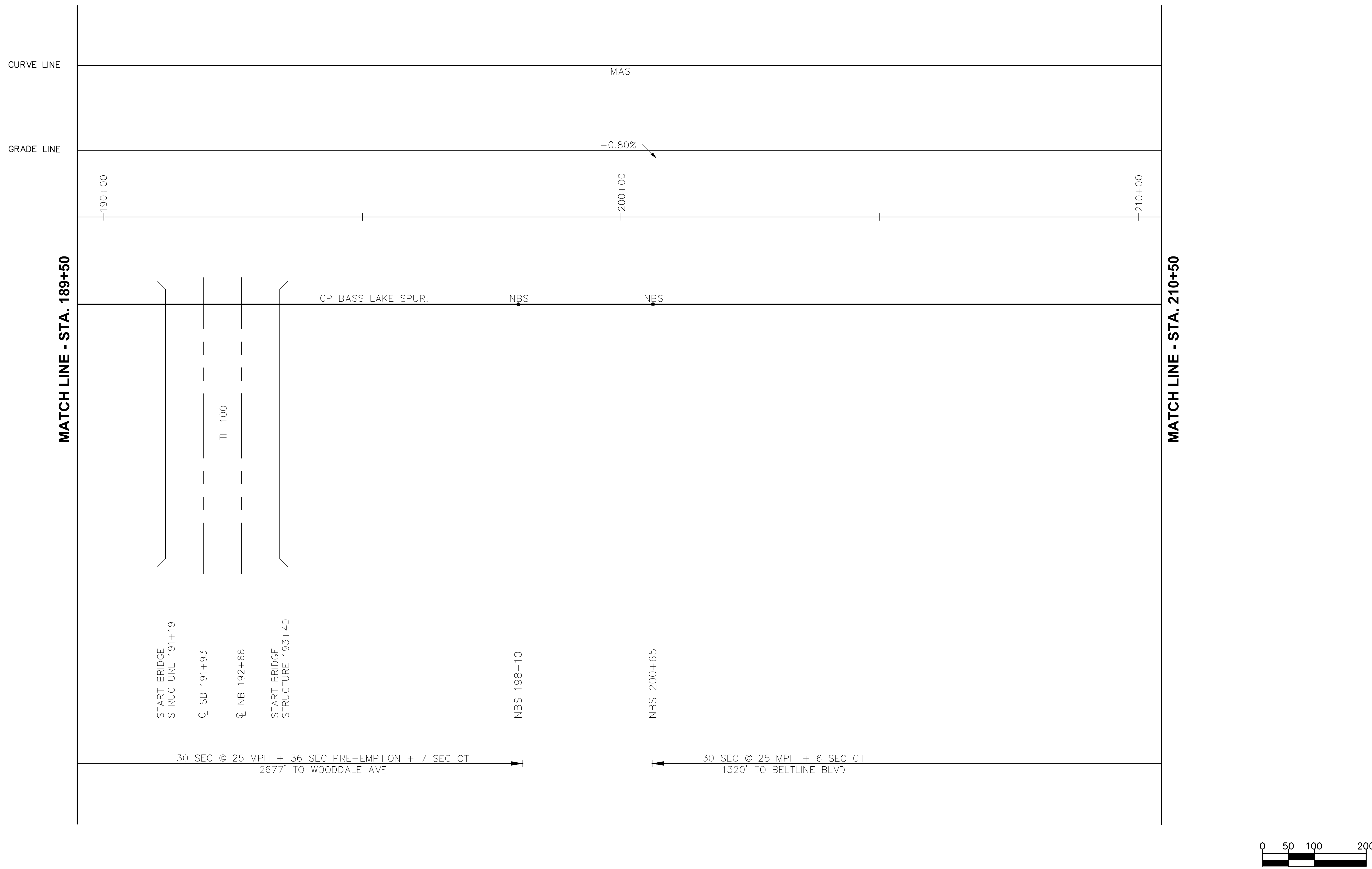
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 162+50 TO STA 189+50

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-006

SHEET 296 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

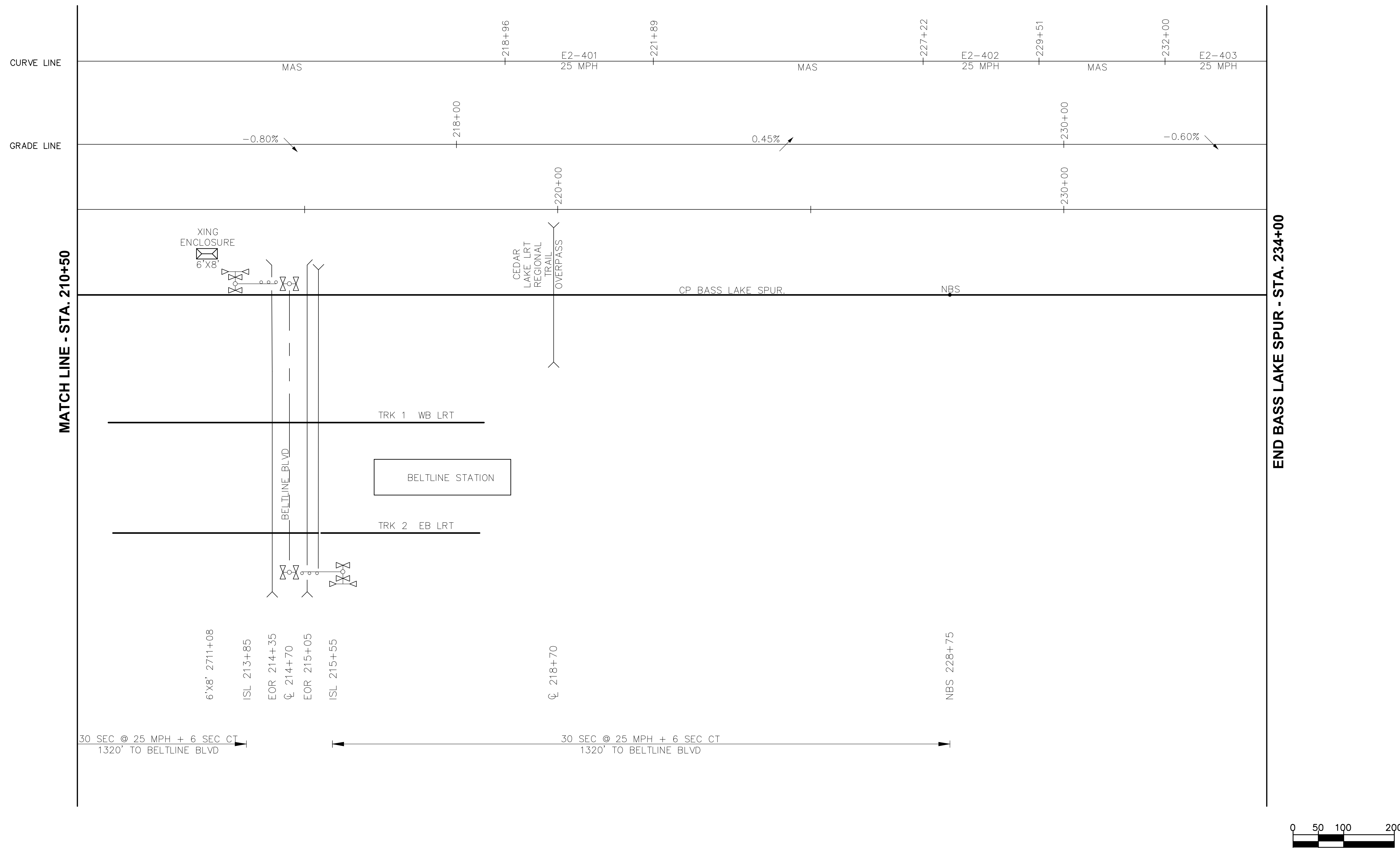
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 189+50 TO STA 210+50

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-007

SHEET 297 OF 464

Jan. 15 2016 09:46 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-007.dwg By: woodsoj



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AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

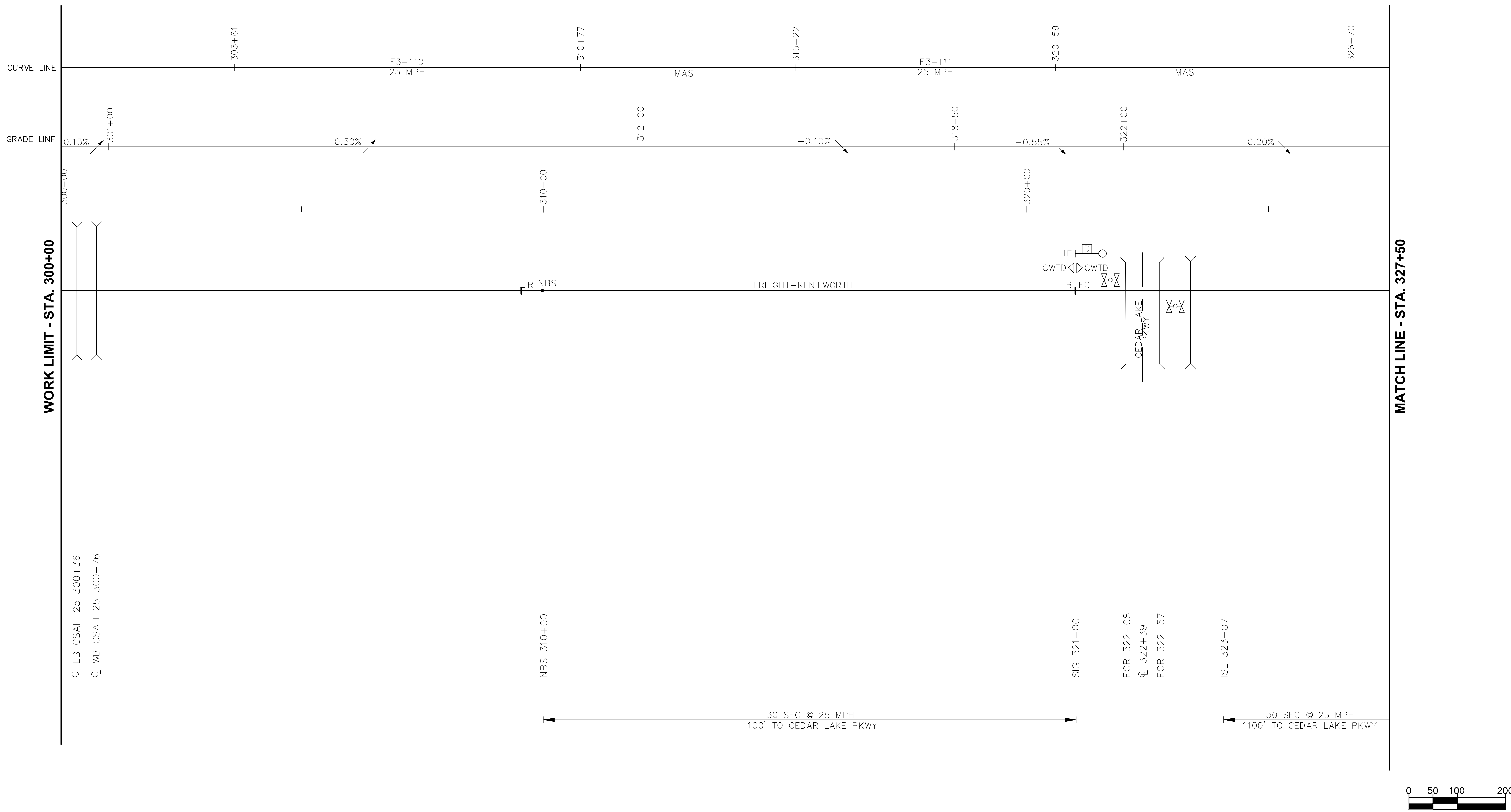
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 210+50 TO STA 234+00

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-008

SHEET 298 OF 464



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

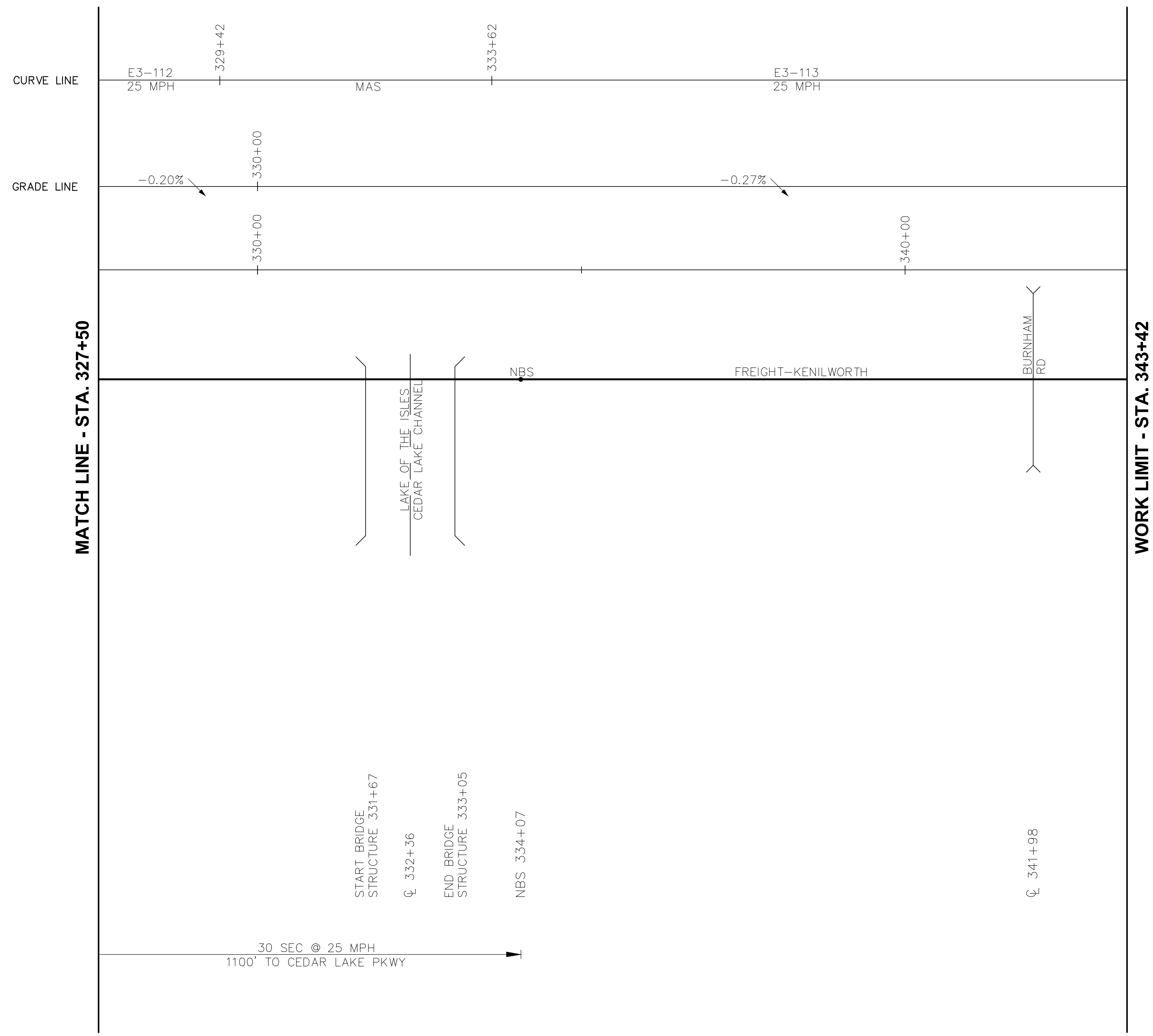
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 300+00 TO STA 327+50

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-009

SHEET 299 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

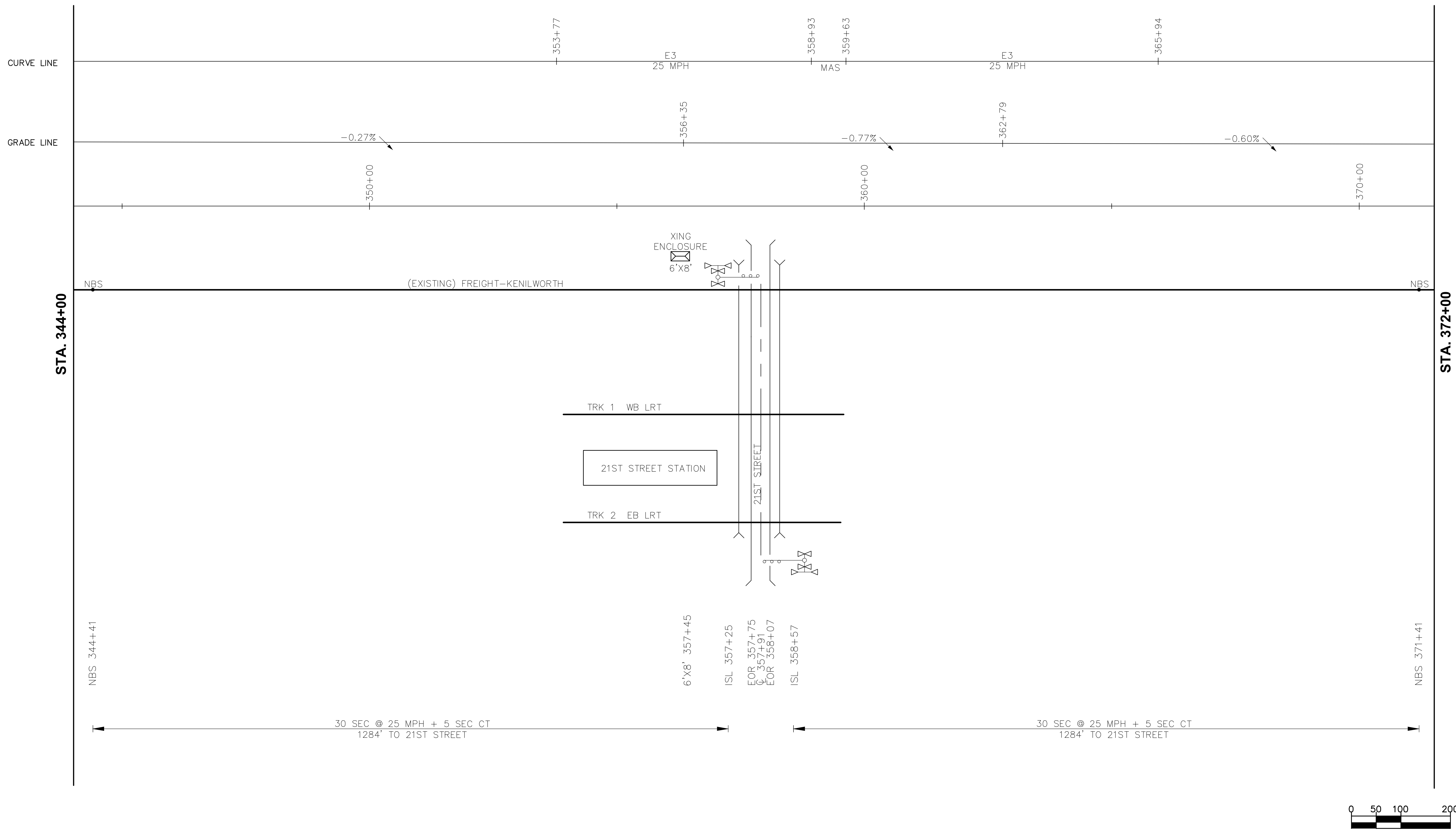
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 327+50 TO STA 343+42

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-010

SHEET 300 OF 464

Jan. 15 2016 09:47 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-010.dwg By: woodsaj



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

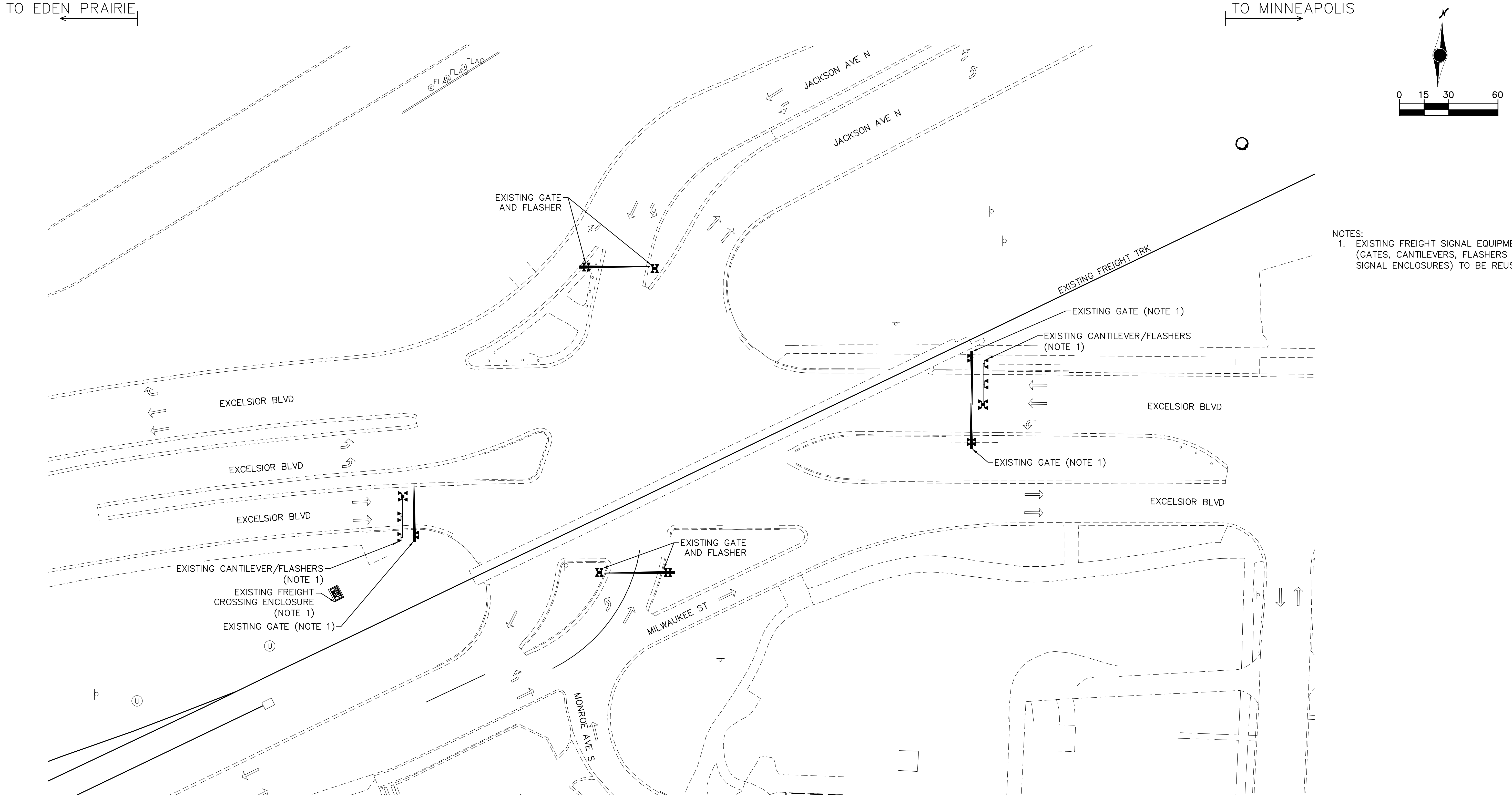
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CONTROL LINE DRAWINGS
STA 344+00 TO STA 372+00

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-CLD-011

SHEET 301 OF 464

Jan. 15, 2016 09:47 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\E0-SYS-SIG-FRT-CLD-011.dwg By: woodsaj



NOTES:
1. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, FLASHERS AND SIGNAL ENCLOSURES) TO BE REUSED.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

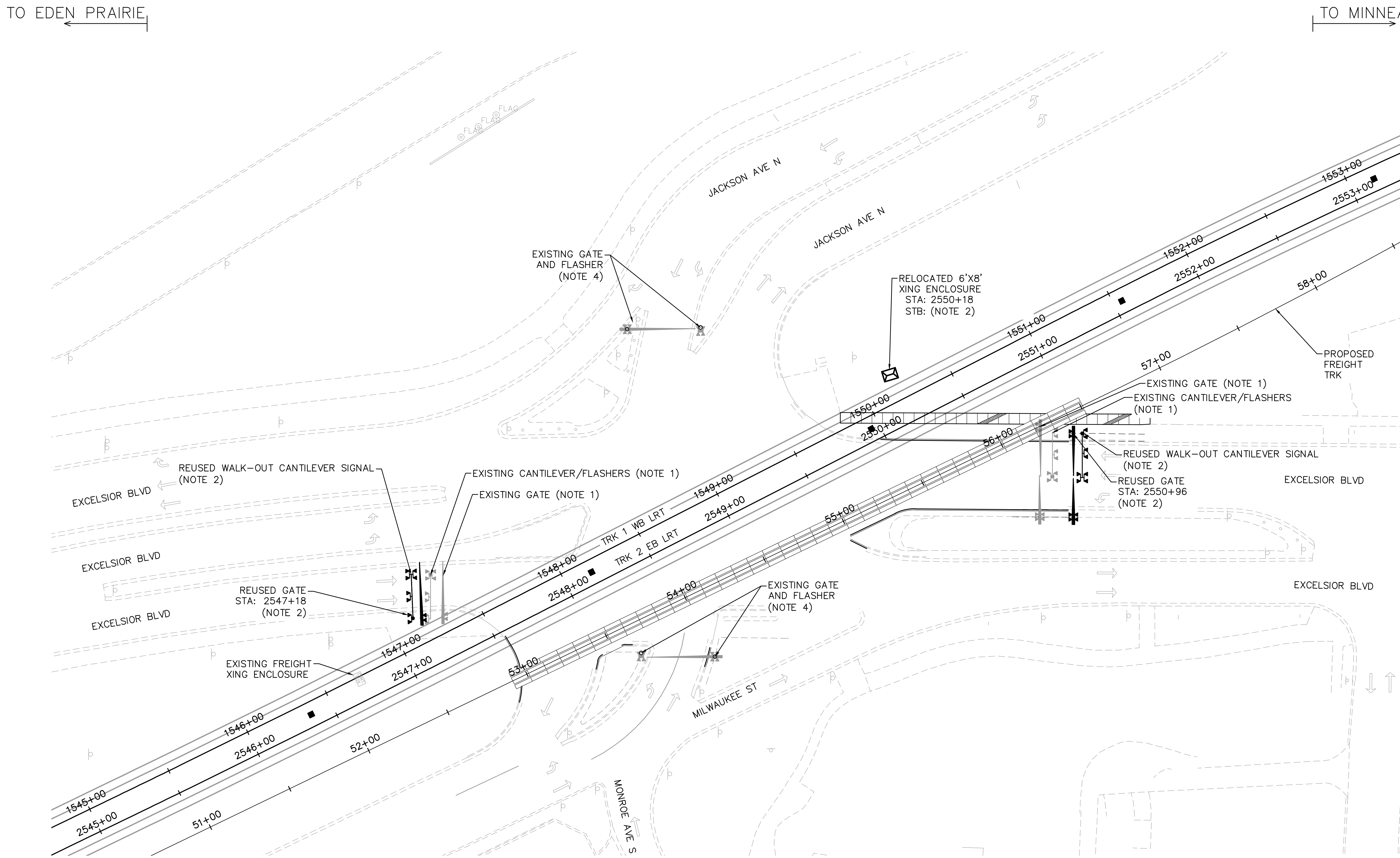
AECOM
WSP PARSONS BRINCKERHOFF
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

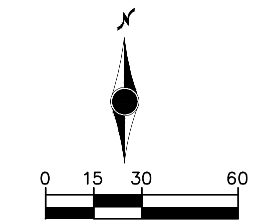
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL FREIGHT PHASING PLANS
EXCELSIOR BLVD - EXISTING

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-001





NOTES:

1. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, FLASHERS AND SIGNAL ENCLOSURES) TO BE REUSED.
2. REUSED GATES, CANTILEVER SIGNALS, AND XING ENCLOSURE TO BE INSTALLED ON NEW FOUNDATIONS. PRE-CAST FOUNDATIONS ARE PREFERRED.
3. CONTRACTOR TO SUBMIT FOUNDATION DESIGN FOR APPROVAL BY CAR.
4. ALL NEW WIRE IN CONDUIT TO BE PULLED TO RELOCATED XING ENCLOSURE FOR EXISTING FREIGHT SIGNALS AND RELOCATED FREIGHT SIGNALS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

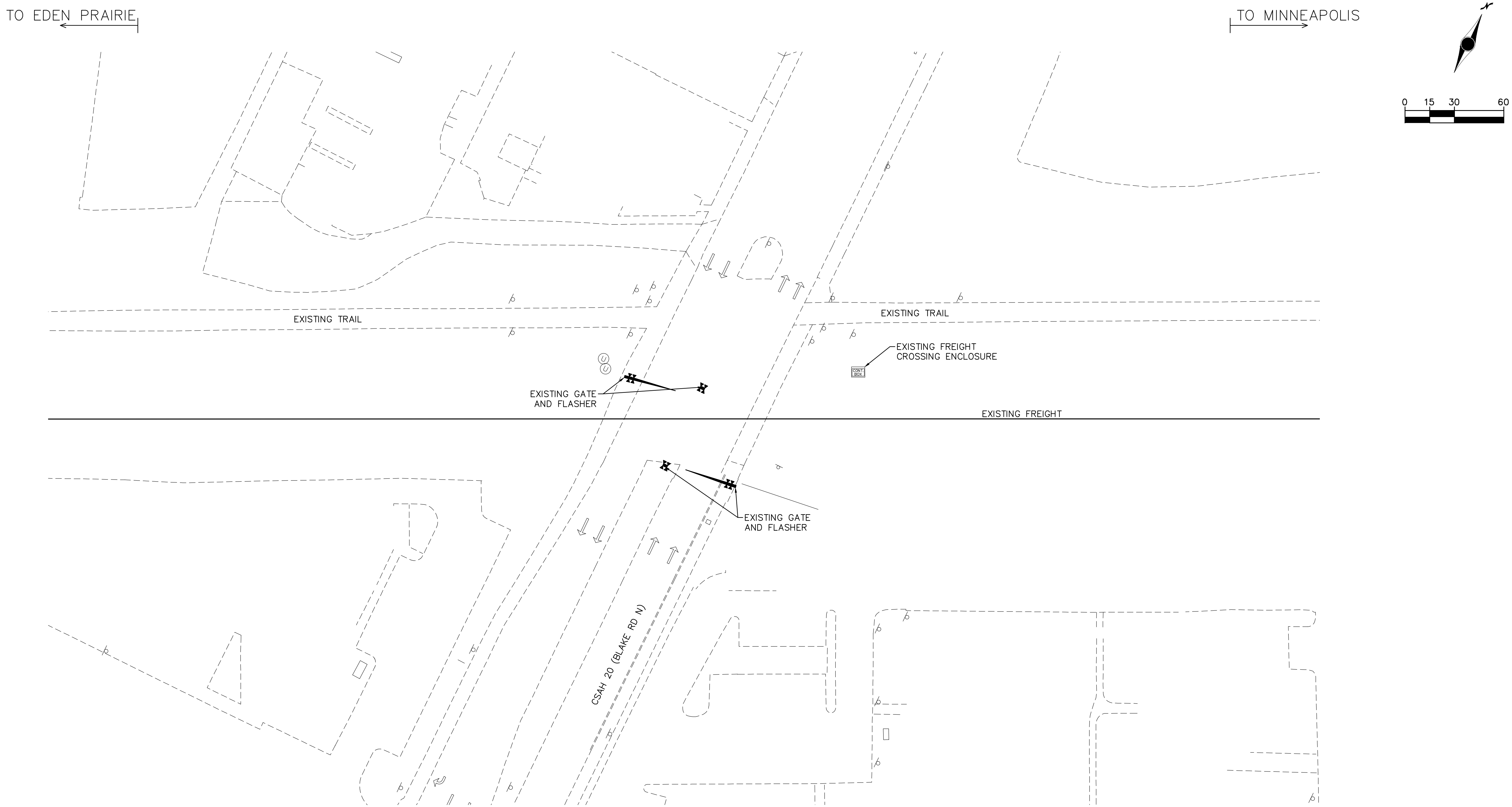
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
EXCELSIOR BLVD - PROPOSED

DISCIPLINE: SYSTEMS
SHEET NAME: E1-SYS-SIG-FRT-002

SHEET 303 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

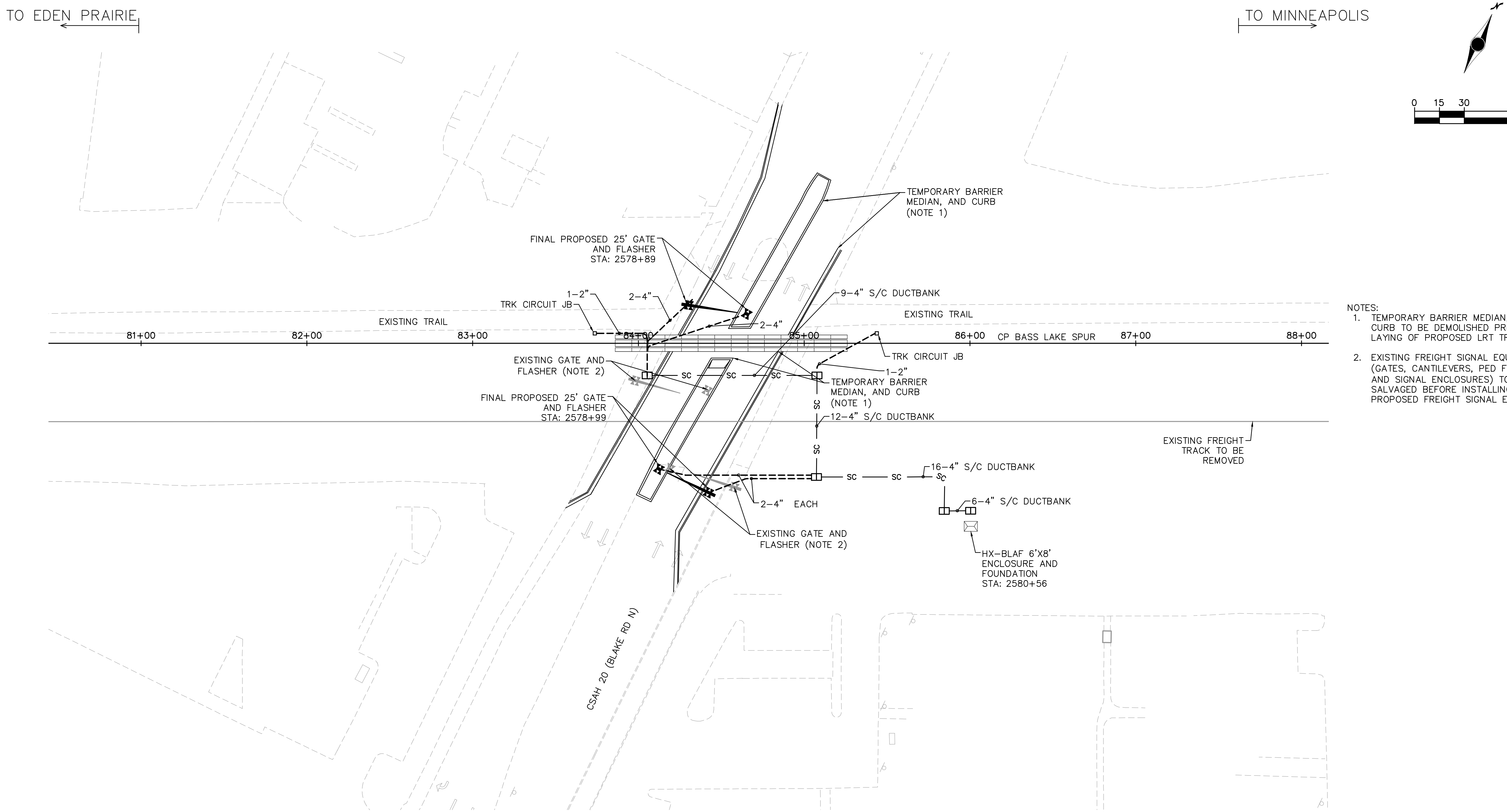
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
BLAKE ROAD - EXISTING

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-003

SHEET 304 OF 464

Jan. 15 2016 10:01 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E1-SYS-SIG-FRT-005.dwg By: woodsaj



NOTES:

1. TEMPORARY BARRIER MEDIAN, AND CURB TO BE DEMOLISHED PRIOR TO LAYING OF PROPOSED LRT TRACKS
2. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, PED FLASHERS AND SIGNAL ENCLOSURES) TO BE SALVAGED BEFORE INSTALLING FINAL PROPOSED FREIGHT SIGNAL EQUIPMENT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/2016

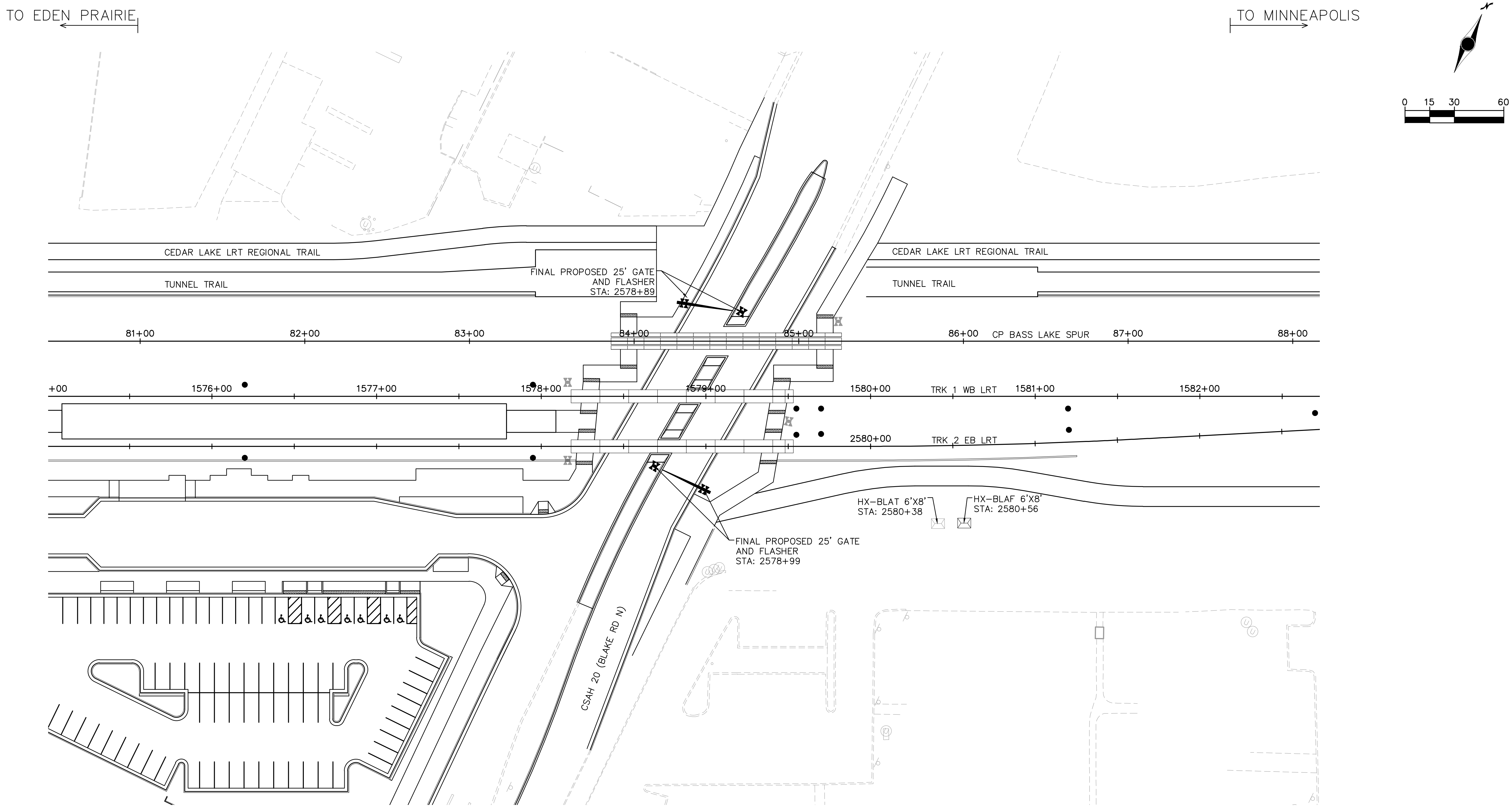
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
BLAKE ROAD - NO LRT

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-004



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

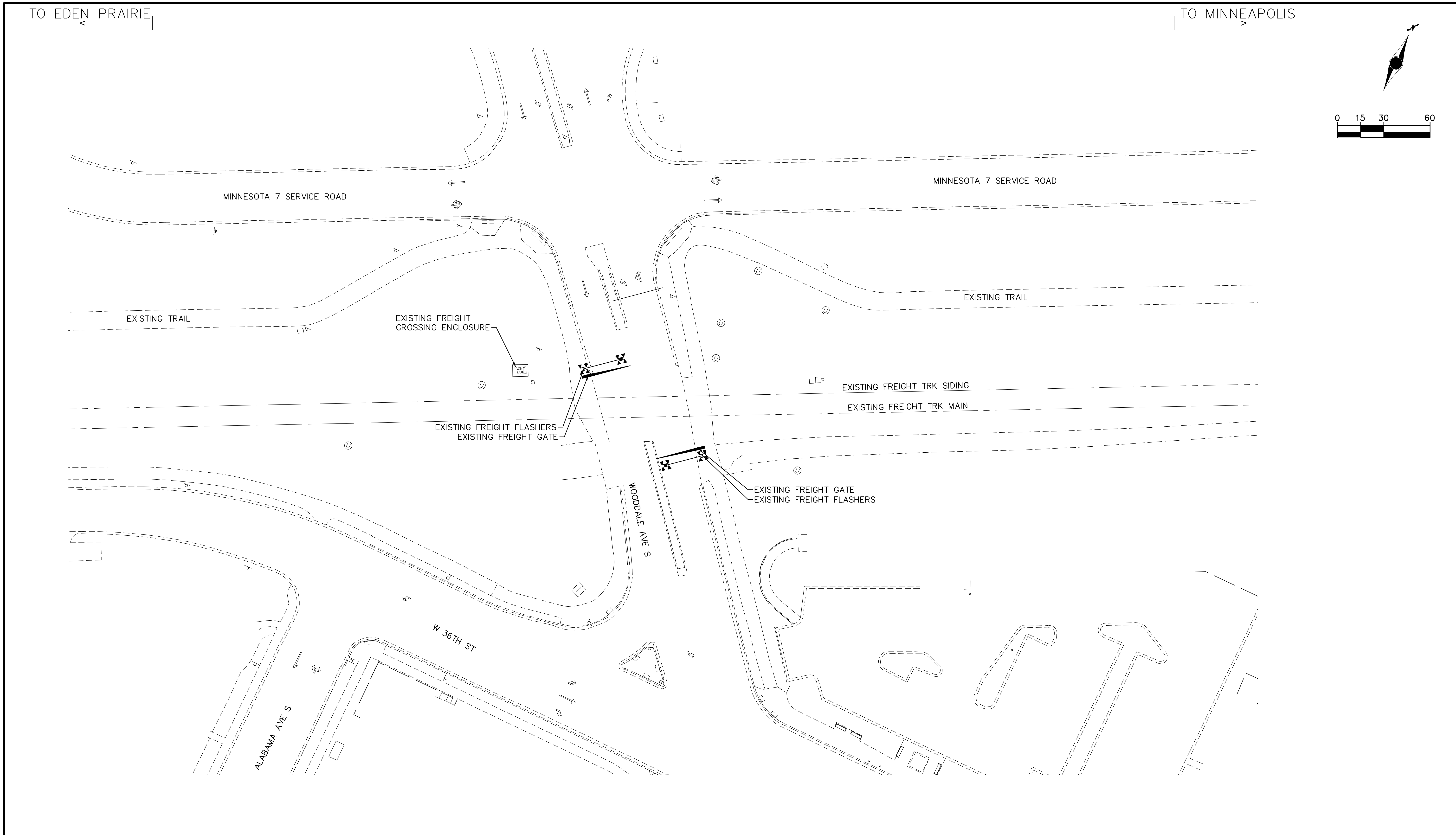
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
BLAKE ROAD - PROPOSED

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-005

Jan, 15 2016 10:07 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E1-SYS-SIG-FRT-005.dwg By: woodsaj



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

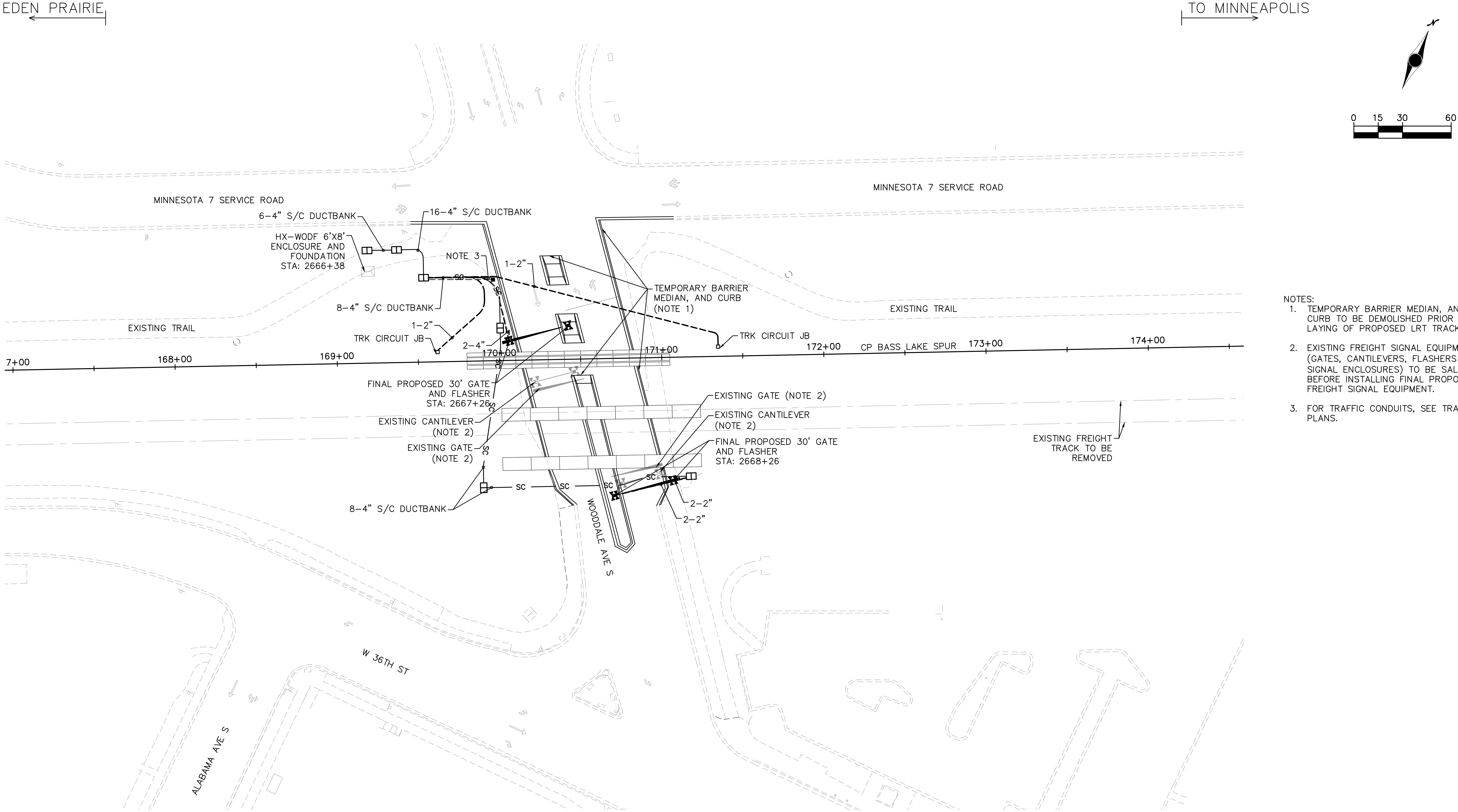
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WOODDALE AVE - EXISTING

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-001

SHEET 307 OF 464

Jan. 15 2016 10:16 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-003.dwg By: woodsaj



NOTES:

1. TEMPORARY BARRIER MEDIAN, AND CURB TO BE DEMOLISHED PRIOR TO LAYING OF PROPOSED LRT TRACKS.
2. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, FLASHERS AND SIGNAL ENCLOSURES) TO BE SALVAGED BEFORE INSTALLING FINAL PROPOSED FREIGHT SIGNAL EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

Jan. 15 2016 10:18 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-003.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

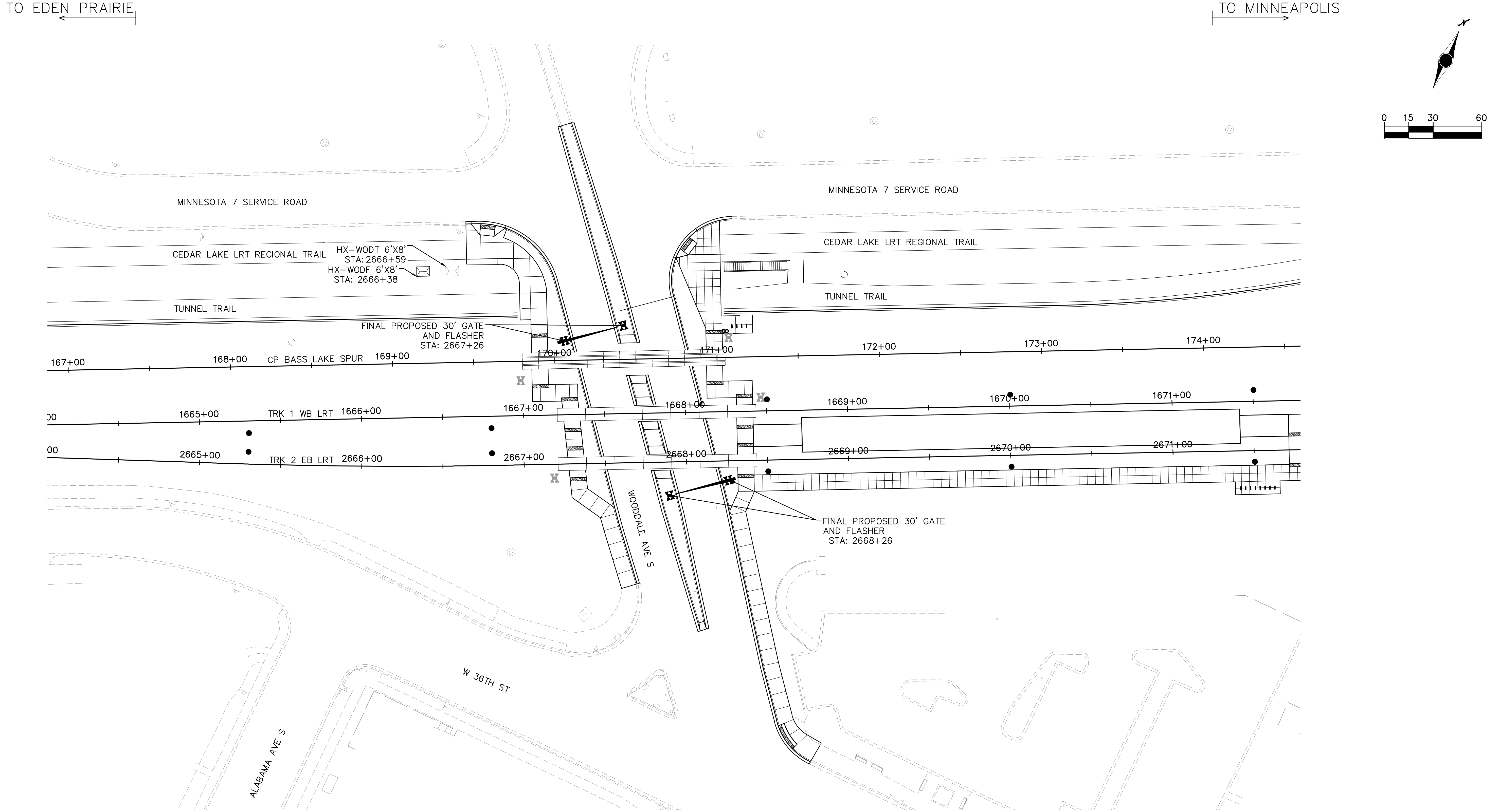
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WOODDALE AVE - NO LRT

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-002

SHEET 308 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

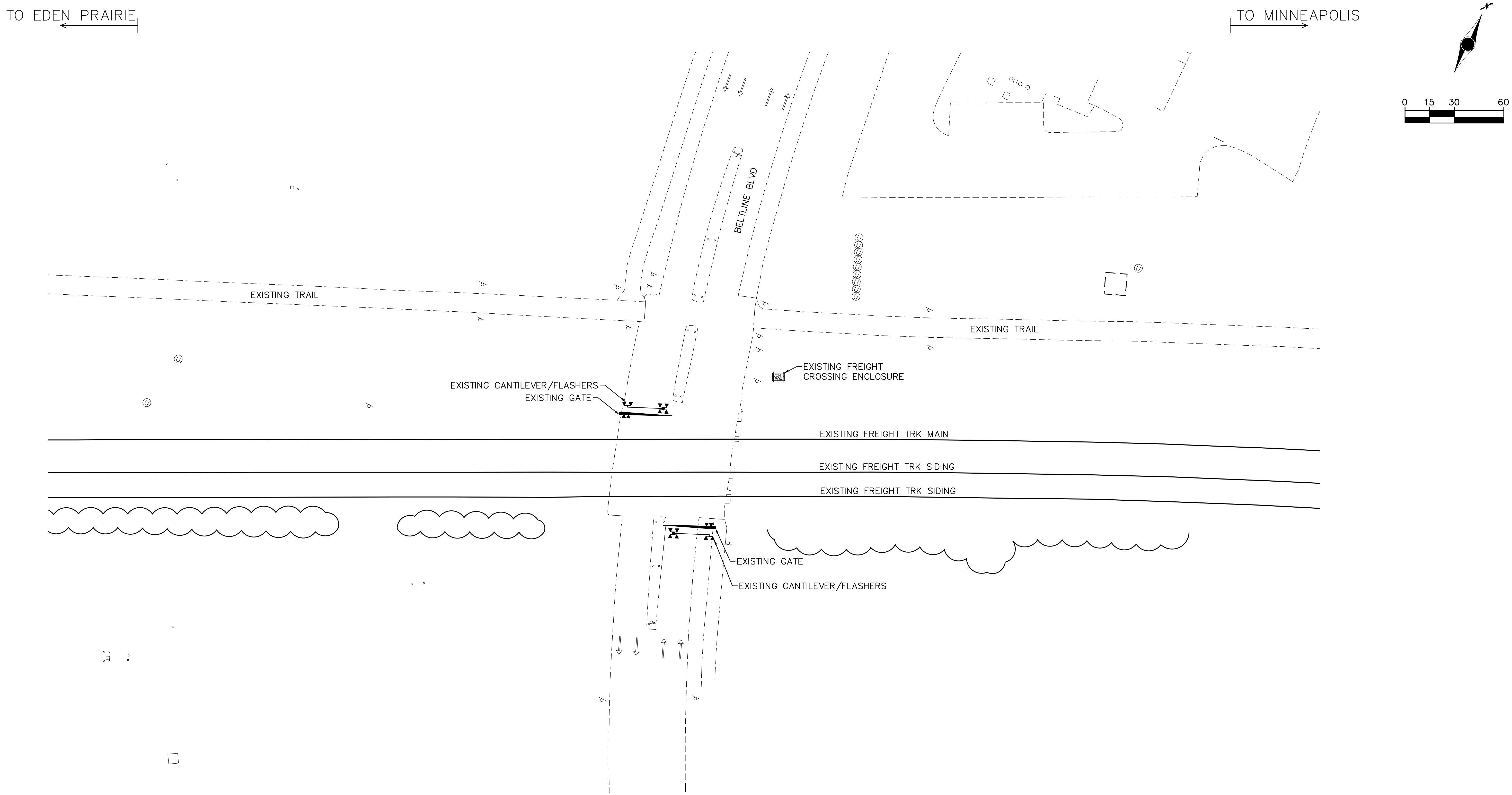
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WOODDALE AVE - PROPOSED

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-003

SHEET 309 OF 464

Jan. 15 2016 10:20 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-003.dwg By: woodsaj



Jan. 15 2016 10:28 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-006.dwg By: woodsaj

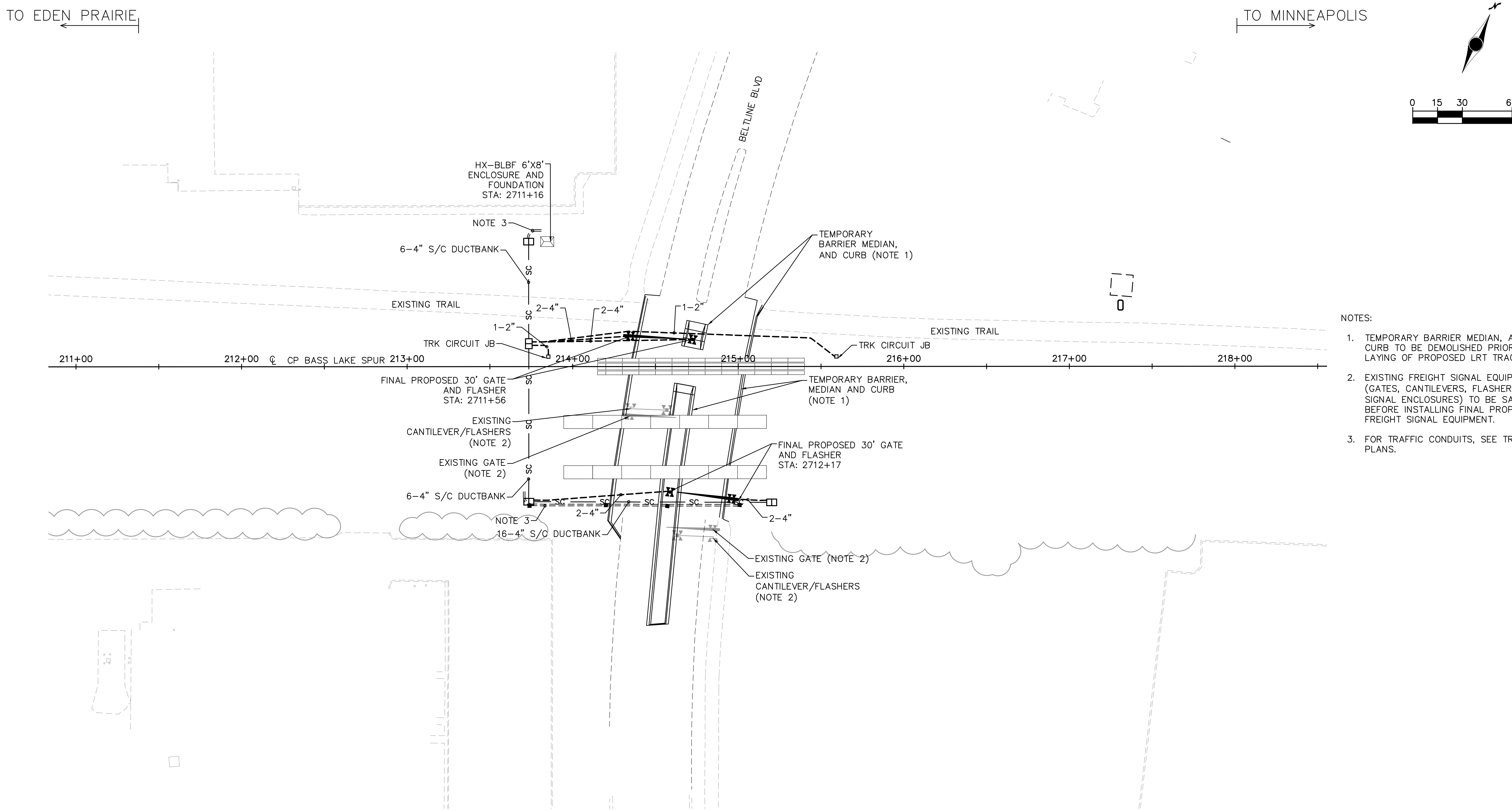
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF
90% SUBMISSION - 01/22/2016
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
BELTLINE BLVD - EXISTING

DISCIPLINE: SYSTEMS
SHEET NAME: E2-SYS-SIG-FRT-004

SHEET 310 OF 464



NOTES:

1. TEMPORARY BARRIER MEDIAN, AND CURB TO BE DEMOLISHED PRIOR TO LAYING OF PROPOSED LRT TRACKS.
2. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, FLASHERS AND SIGNAL ENCLOSURES) TO BE SALVAGED BEFORE INSTALLING FINAL PROPOSED FREIGHT SIGNAL EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

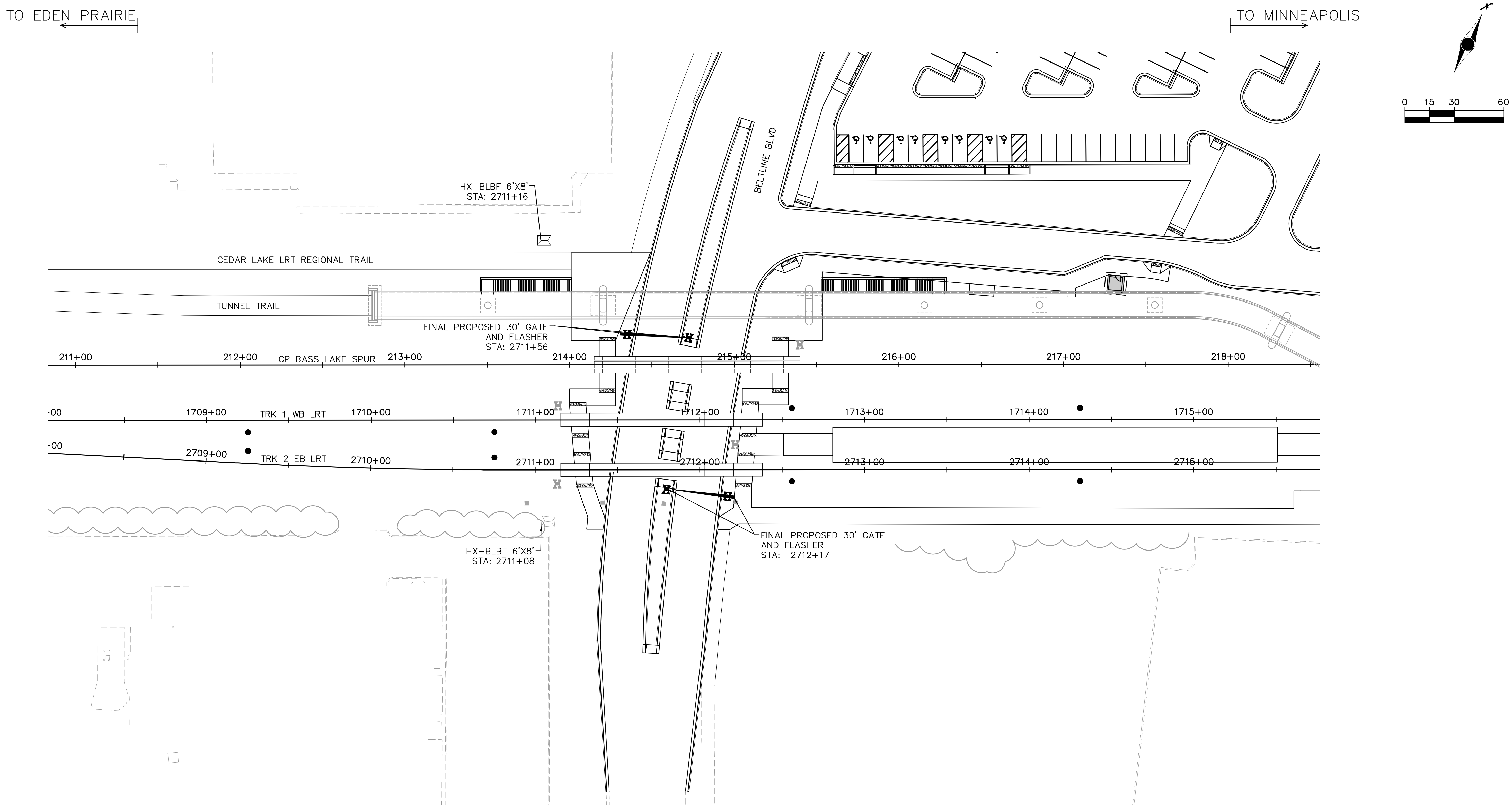
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL FREIGHT PHASING PLANS
BELTLINE BLVD - NO LRT

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-005

SHEET 311 OF 464



Jan. 15 2016 10:32 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-006.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

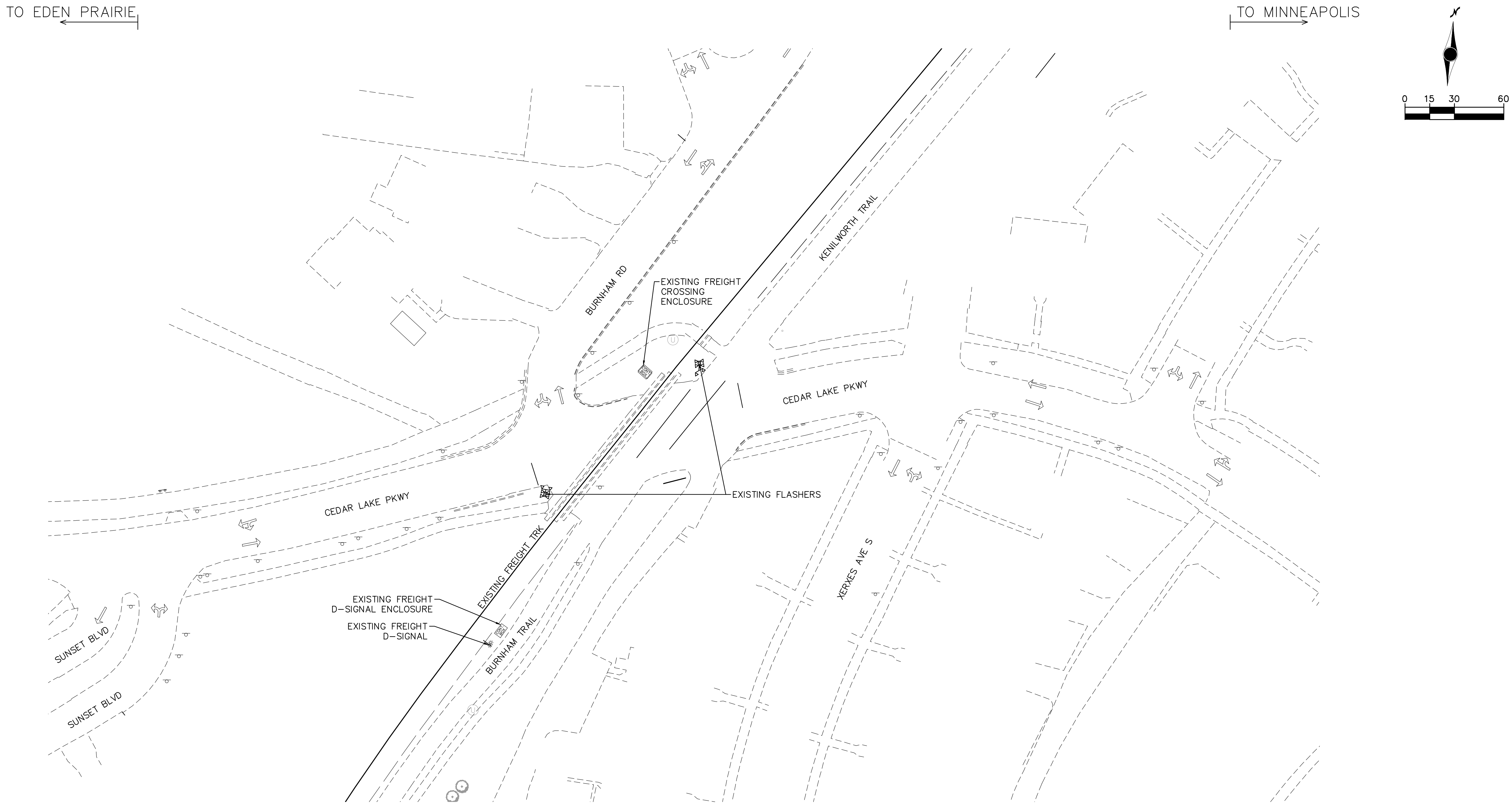
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
BELTLINE BLVD - PROPOSED

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-006

SHEET 312 OF 464



Jan. 15 2016 10:36 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-003.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM | WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

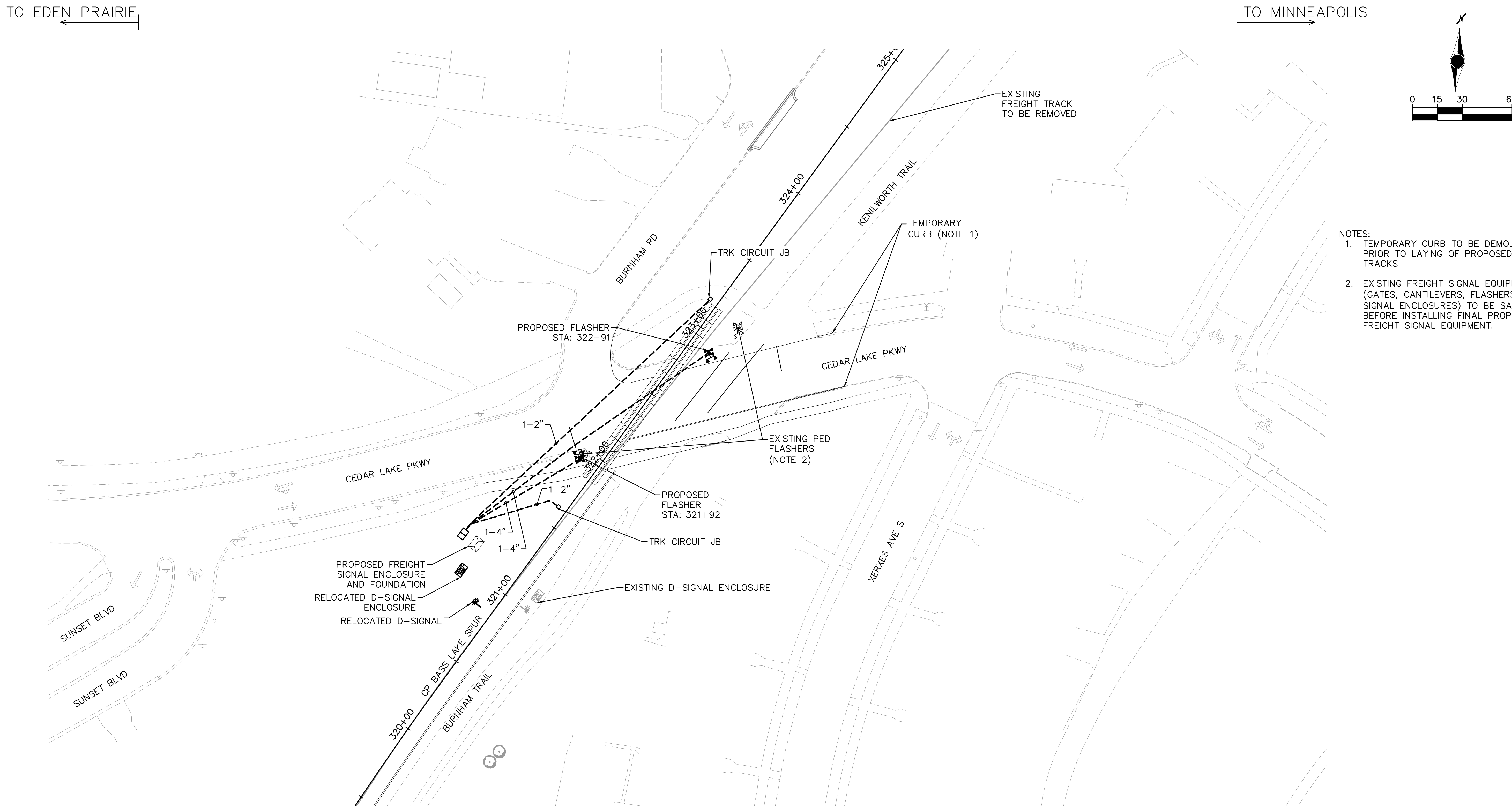
METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
CEDAR LAKE PKWY - EXISTING

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-001

SHEET 313 OF 464



NOTES:
1. TEMPORARY CURB TO BE DEMOLISHED PRIOR TO LAYING OF PROPOSED LRT TRACKS
2. EXISTING FREIGHT SIGNAL EQUIPMENT (GATES, CANTILEVERS, FLASHERS AND SIGNAL ENCLOSURES) TO BE SALVAGED BEFORE INSTALLING FINAL PROPOSED FREIGHT SIGNAL EQUIPMENT.

Jan. 15 2016 10:38 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-003.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM | WSP | PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

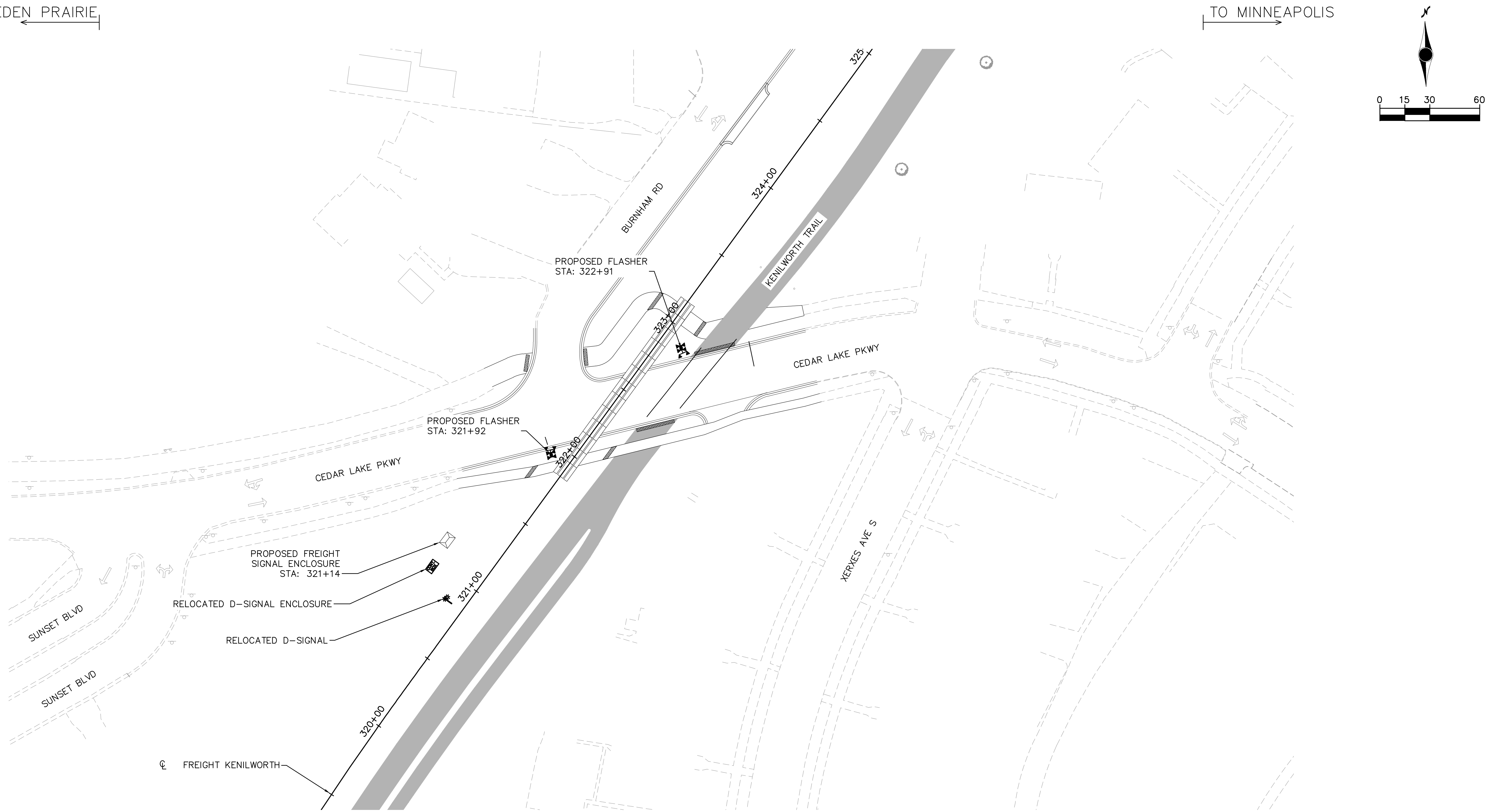
METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
CEDAR LAKE PKWY - NO LRT

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-002

SHEET 314 OF 464



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/2016

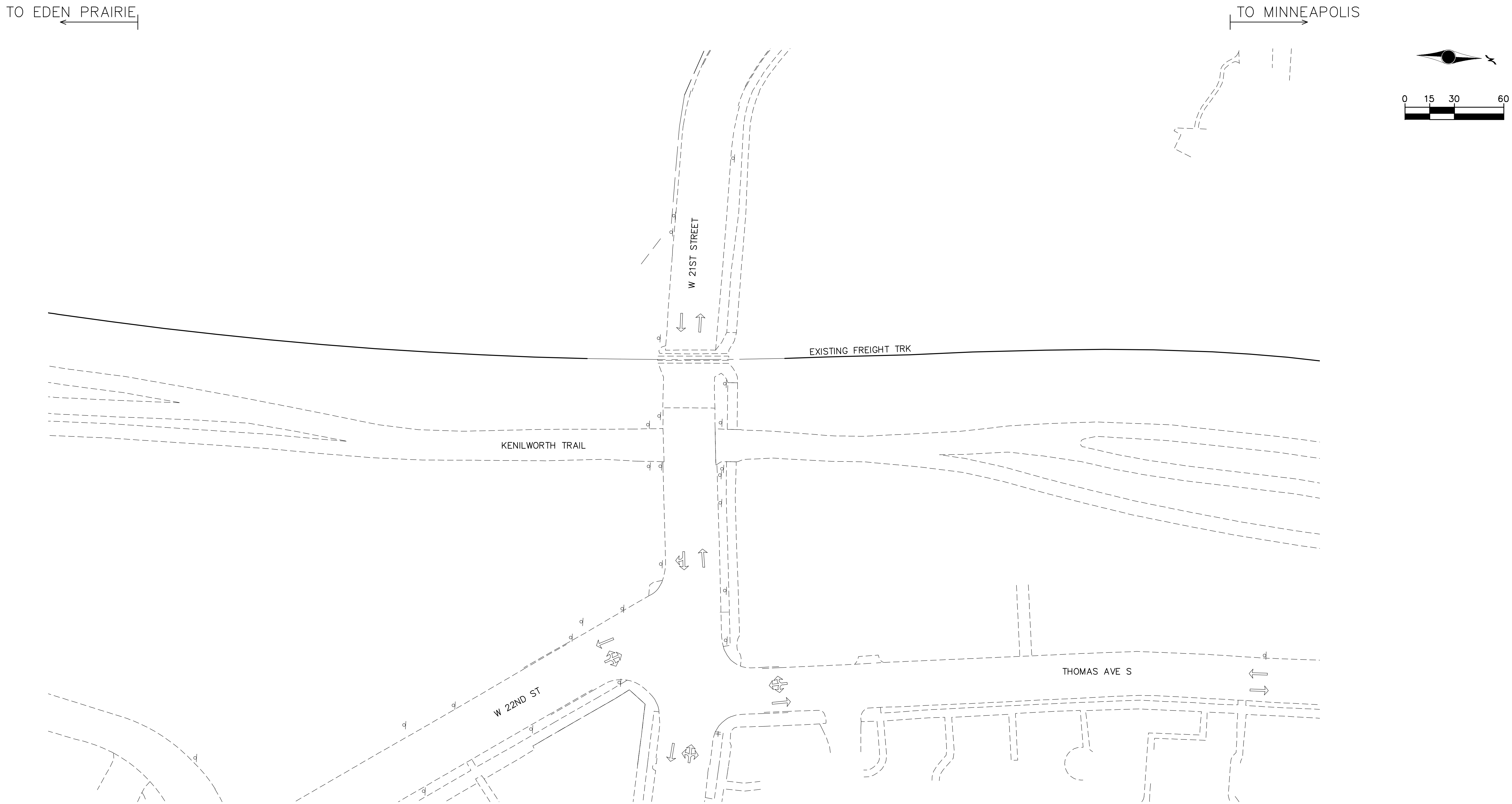
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
CEDAR LAKE PKWY - PROPOSED

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-003

SHEET 315 OF 464

Jan, 15 2016 10:39 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-003.dwg By: woodsaj



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

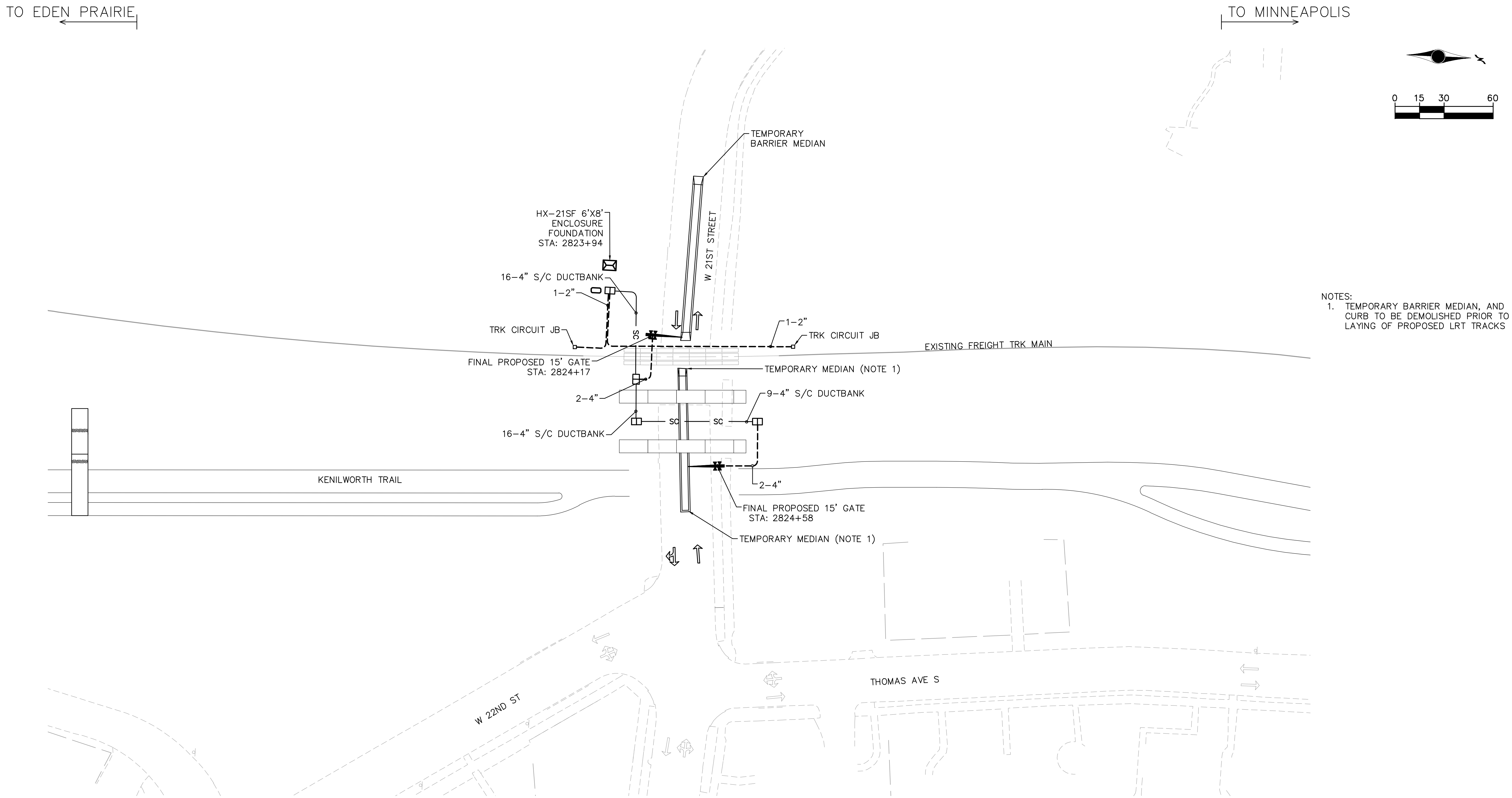
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WEST 21ST STREET - EXISTING

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-004

SHEET 316 OF 464



NOTES:
1. TEMPORARY BARRIER MEDIAN, AND CURB TO BE DEMOLISHED PRIOR TO LAYING OF PROPOSED LRT TRACKS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

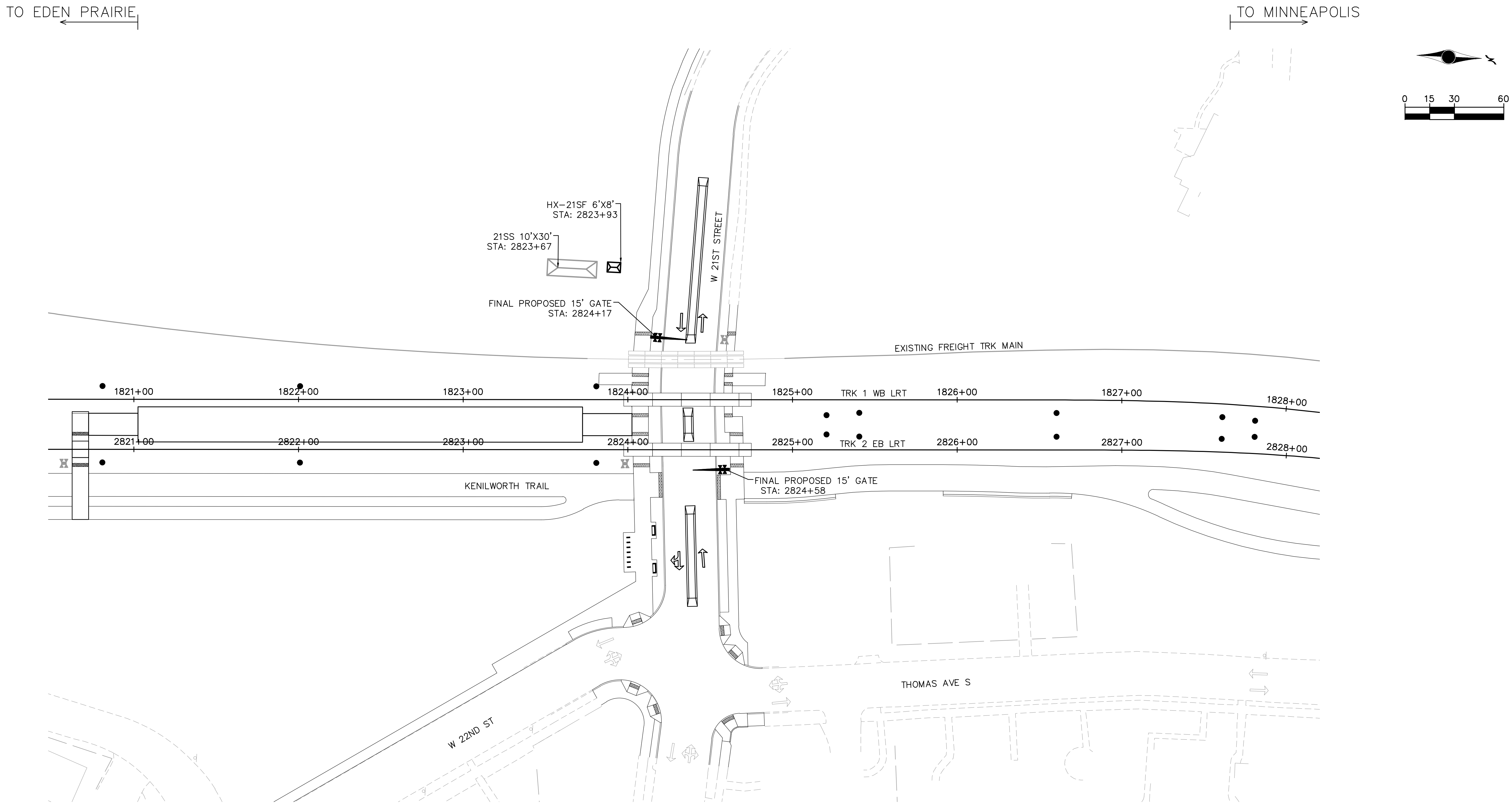
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WEST 21ST STREET - NO LRT

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-005

SHEET 317 OF 464

Jan. 15 2016 10:45 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-006.dwg By: woodsaj



Jan, 15 2016 10:47 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-006.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

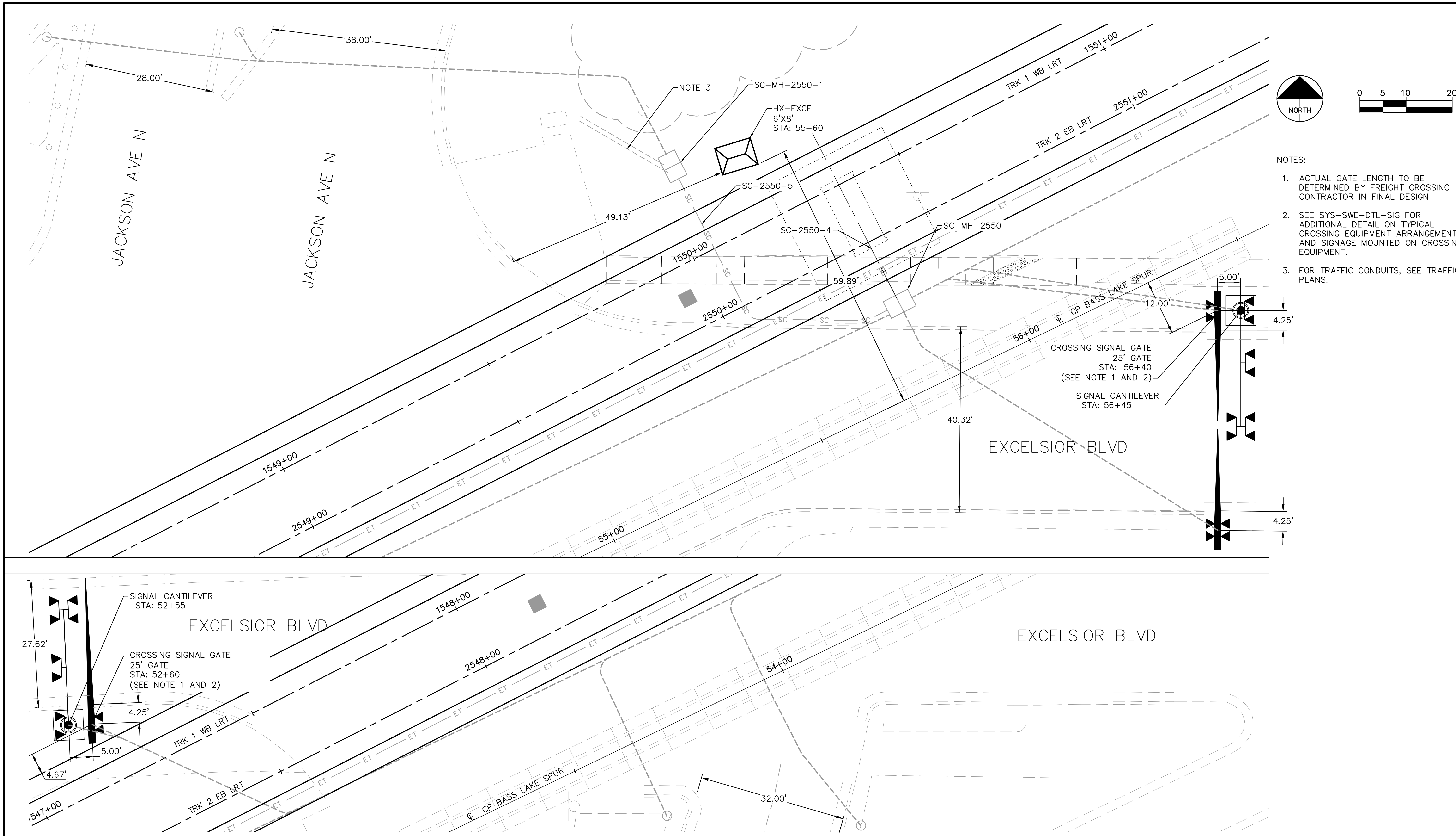
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT PHASING PLANS
WEST 21ST STREET - PROPOSED

DISCIPLINE: SYSTEMS
SHEET NAME: E3-SYS-SIG-FRT-006

SHEET 318 OF 464



NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-DTL-SIG FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

Jan. 15 2016 10:53 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E1-SYS-SIG-FRT-XING-001.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP
PARSONS BRINCKERHOFF

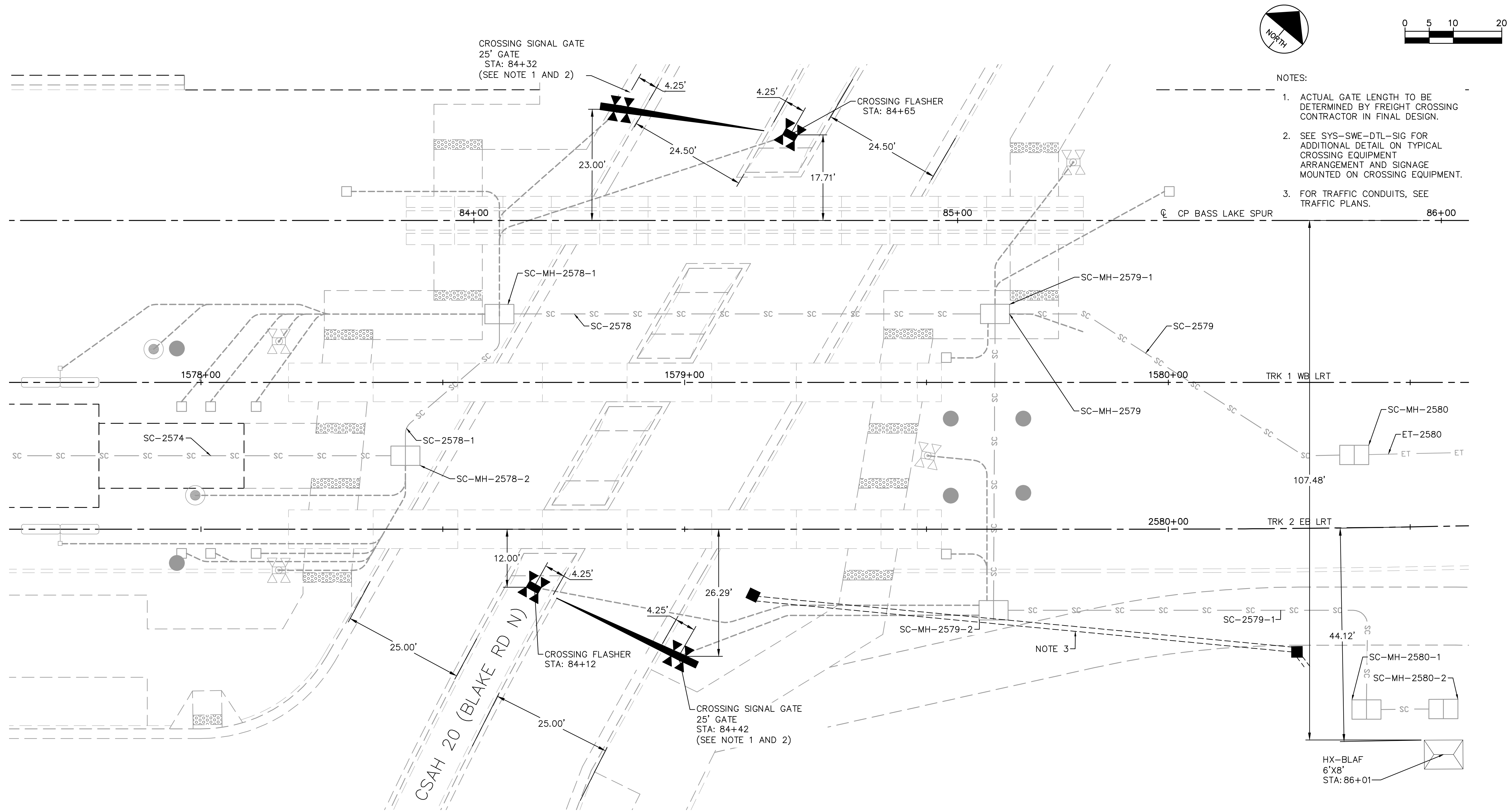
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING PLANS
EXCELSIOR BOULEVARD

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-XING-001



NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-DTL-SIG FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

Jan. 15 2016 10:55 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E1-SYS-SIG-FRT-XING-002.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM | WSP PARSONS BRINCKERHOFF | METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

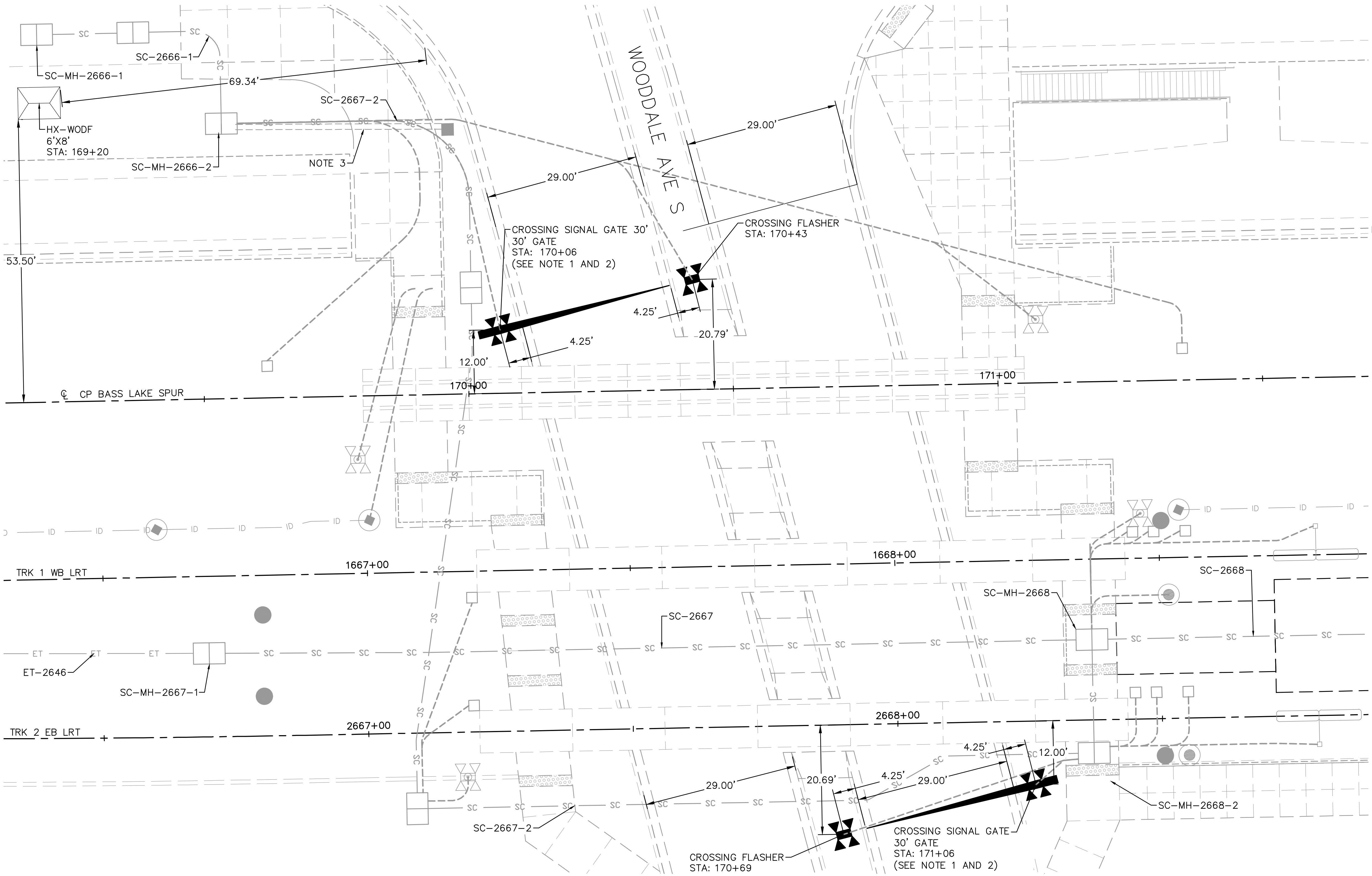
90% SUBMISSION - 01/22/2016

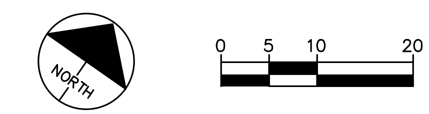
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING PLANS
BLAKE ROAD

DISCIPLINE: SYSTEMS

SHEET NAME: E1-SYS-SIG-FRT-XING-002

SHEET 320 OF 464





NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-SIG-DTL-XXX FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

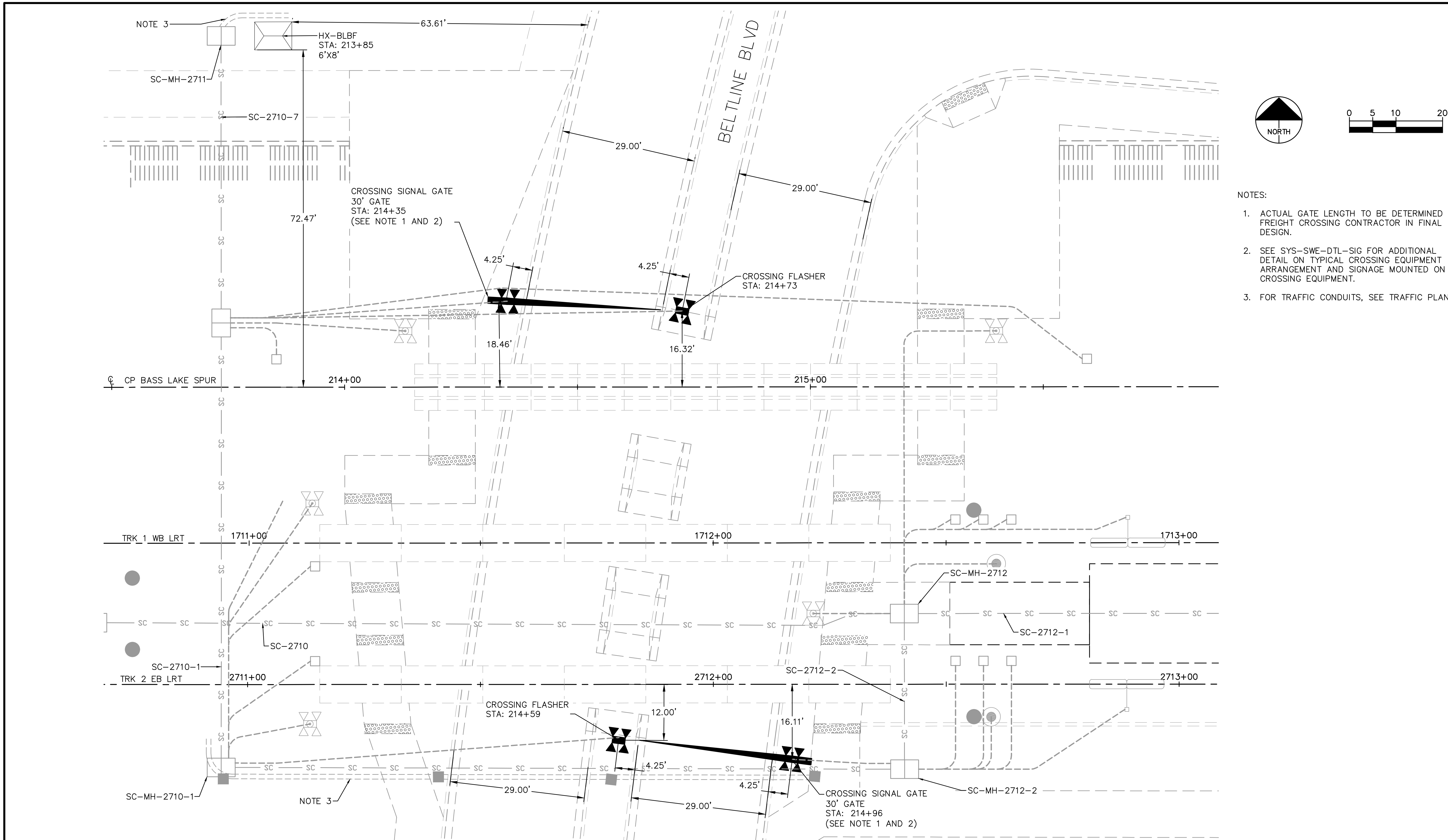
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING PLANS
WOODDALE AVE

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-XING-001

SHEET 321 OF 464

Jan. 15 2016 10:57 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E2-SYS-SIG-FRT-XING-001.dwg By: woodsaj



NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-DTL-SIG FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.
3. FOR TRAFFIC CONDUITS, SEE TRAFFIC PLANS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

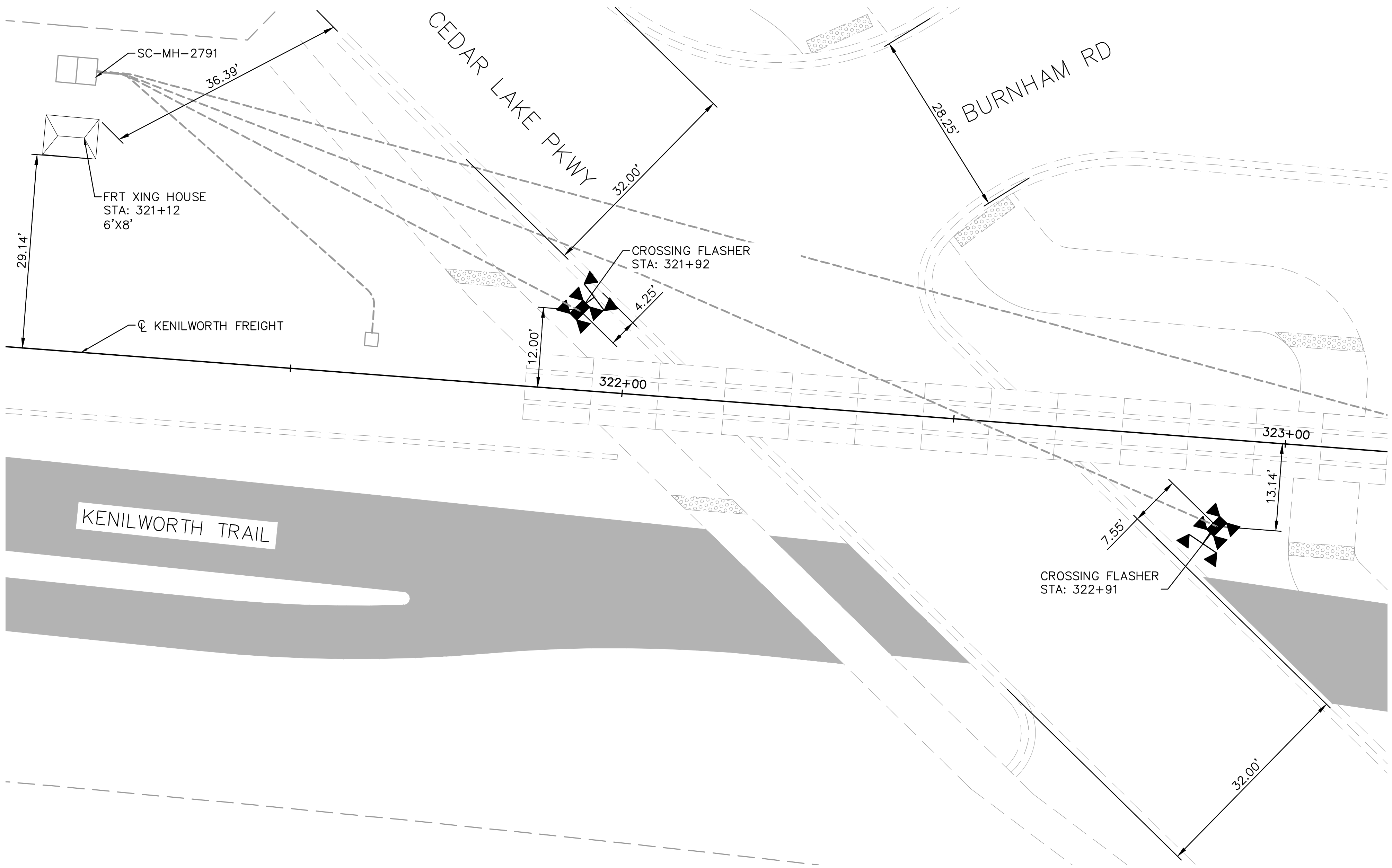
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL FREIGHT CROSSING PLANS
BELTLINE BLVD

DISCIPLINE: SYSTEMS

SHEET NAME: E2-SYS-SIG-FRT-XING-002



NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-DTL-SIG FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.

Jan. 15 2016 11:01 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\CROSSINGS\E3-SYS-SIG-FRT-XING-001.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
WSP PARSONS BRINCKERHOFF
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

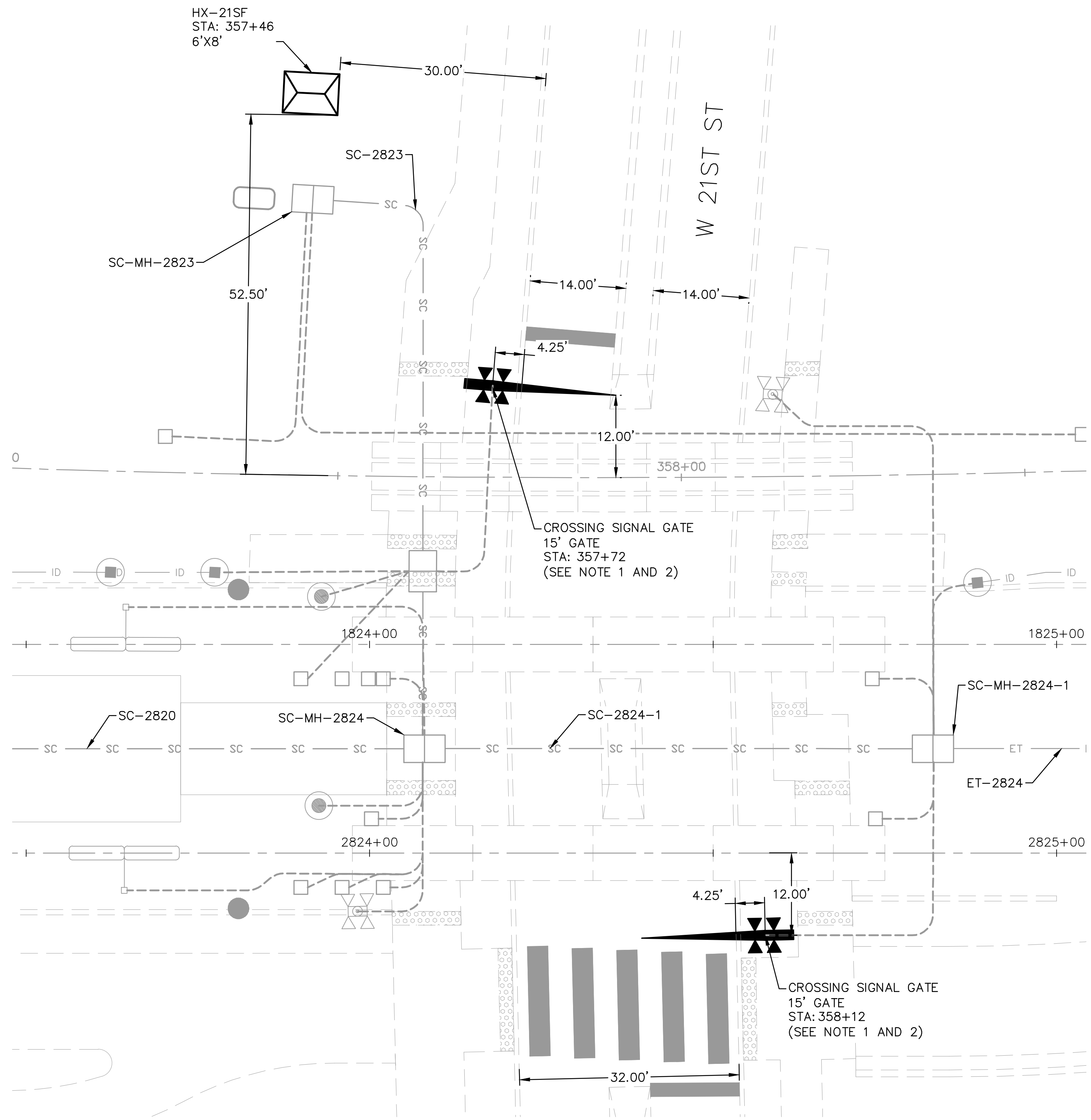
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING PLANS
CEDAR LAKE PKWY

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-XING-001

SHEET 323 OF 464



NOTES:

1. ACTUAL GATE LENGTH TO BE DETERMINED BY FREIGHT CROSSING CONTRACTOR IN FINAL DESIGN.
2. SEE SYS-SWE-DTL-SIG FOR ADDITIONAL DETAIL ON TYPICAL CROSSING EQUIPMENT ARRANGEMENT AND SIGNAGE MOUNTED ON CROSSING EQUIPMENT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

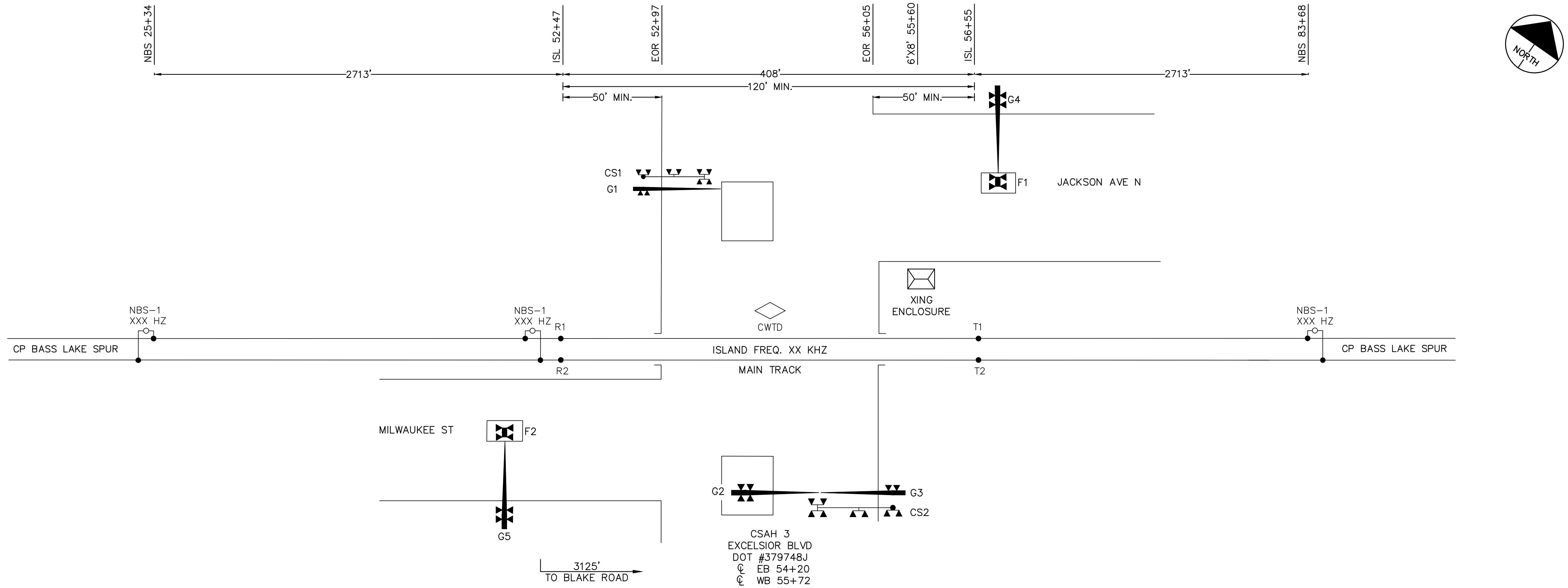
AECOM
WSP
PARSONS BRINCKERHOFF
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL FREIGHT CROSSING PLANS
W 21ST STREET

DISCIPLINE: SYSTEMS

SHEET NAME: E3-SYS-SIG-FRT-XING-002



XING ENCLOSURE

R1/R2	2C #6	2C #6	T1/T2
G1	17C (10C #9, 7C #14, 2C #4)	17C (10C #9, 7C #14, 2C #4)	G3
G2	17C (10C #9, 7C #14, 2C #4)	5C #9	CS2
CS1	5C #9	17C (10C #9, 7C #14, 2C #4)	G4
G5	17C (10C #9, 7C #14, 2C #4)	5C #9	F1
F2	5C #9		
AC POWER	4-1C #2		
FUTURE LRT XING INTERFACE	12 SMFO		
	19C #14		

NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 18 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 26 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

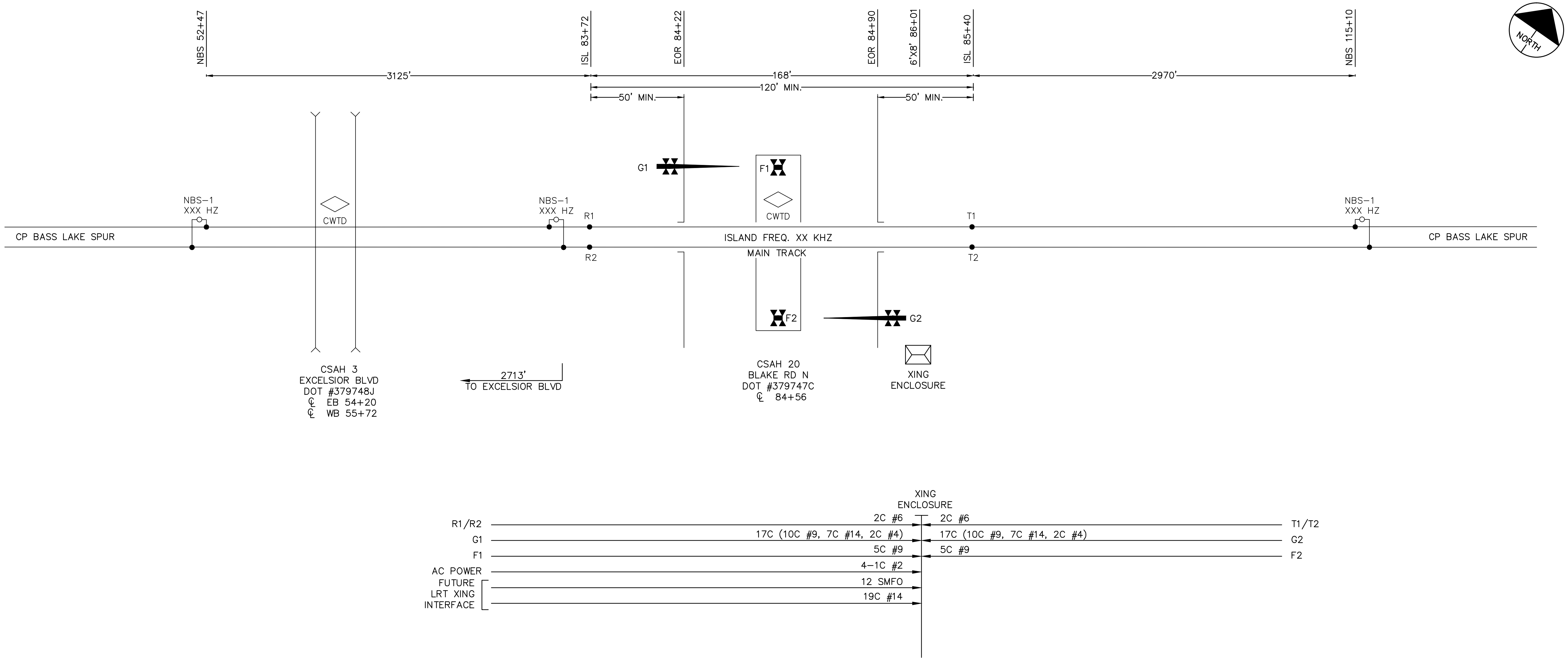
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
EXCELSIOR BLVD

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-DTL-001



NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 8 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 43 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

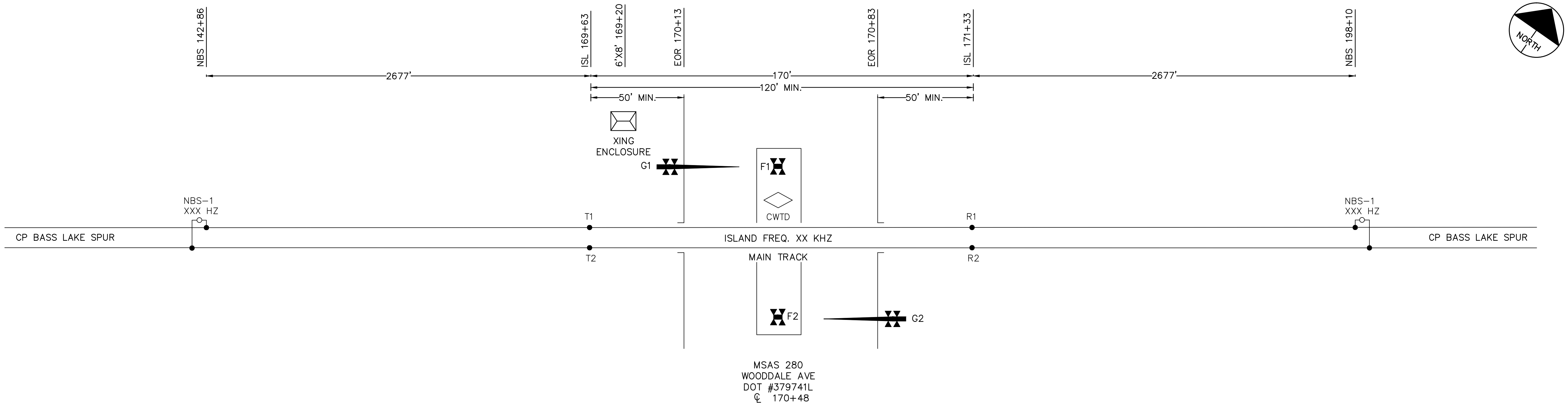
AECOM WSP PARSONS BRINCKERHOFF

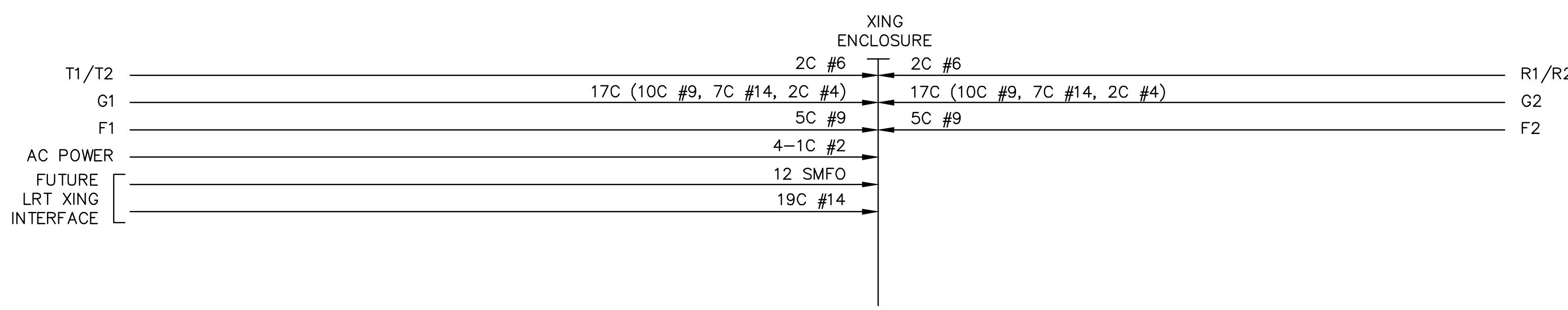
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
BLAKE ROAD

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SIG-FRT-DTL-002





NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 7 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 36 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

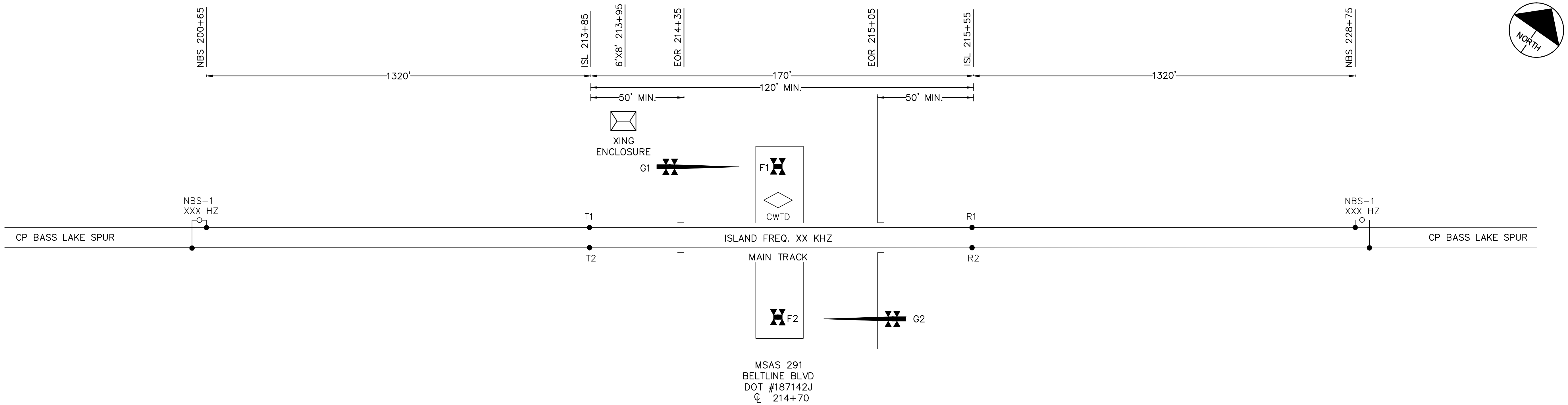
METROPOLITAN COUNCIL

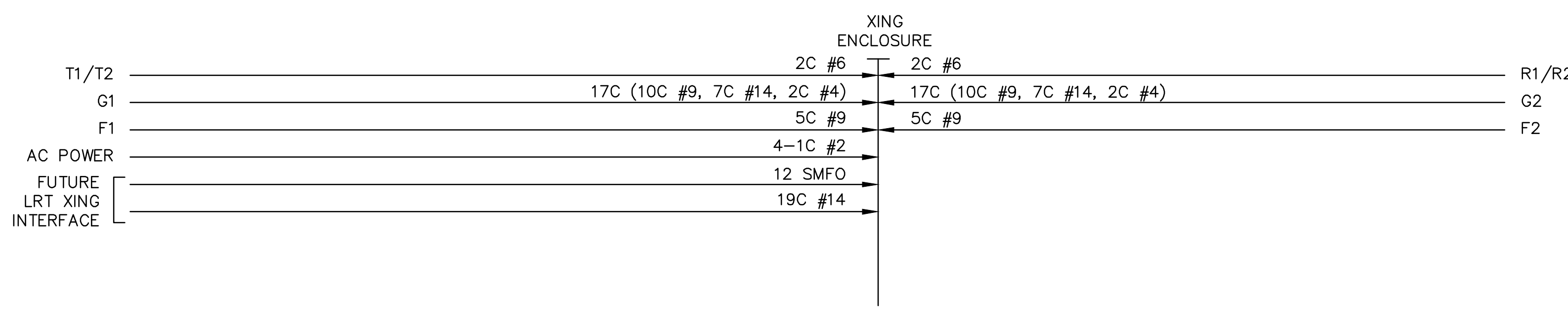
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
WOODDALE AVE

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-DTL-003





NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 6 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 0 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

Jan. 15 2016 11:05 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SIG-FRT-DTL-004.dwg By: woodsoj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/2016

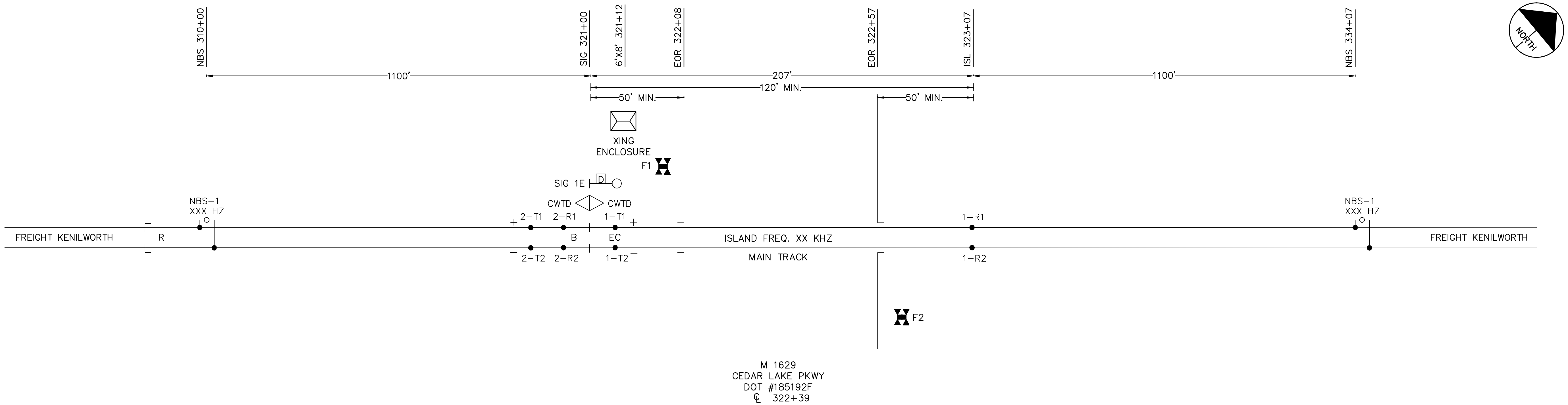
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
BELTLINE BLVD

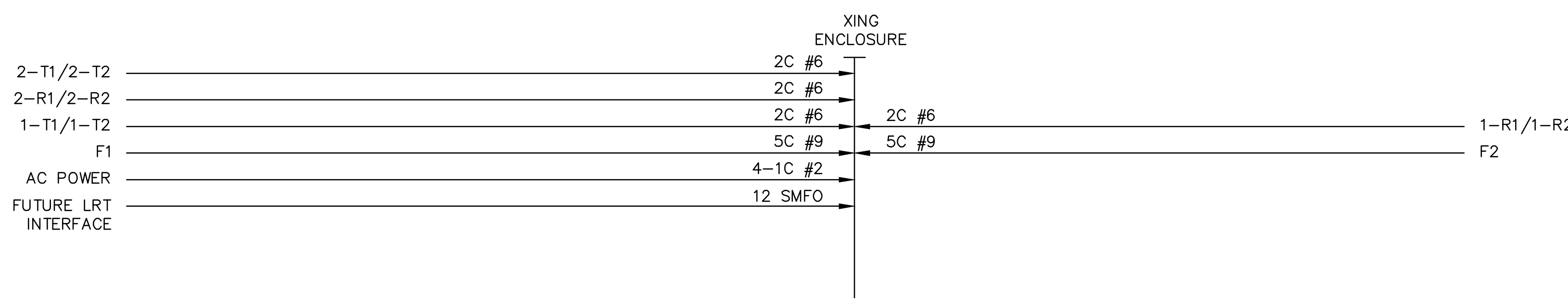
DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-DTL-004

SHEET 328 OF 464

Jan. 15 2016 11:05 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SIG-FRT-DTL-005.dwg By: woodsoj





NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 0 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 0 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL

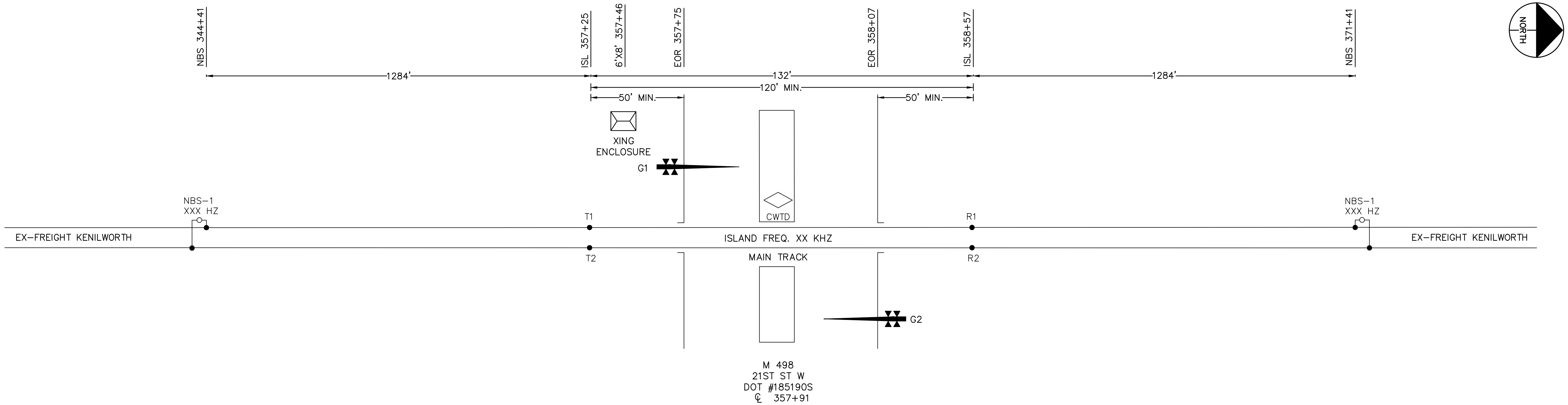
SOUTHWEST Green Line LRT Extension

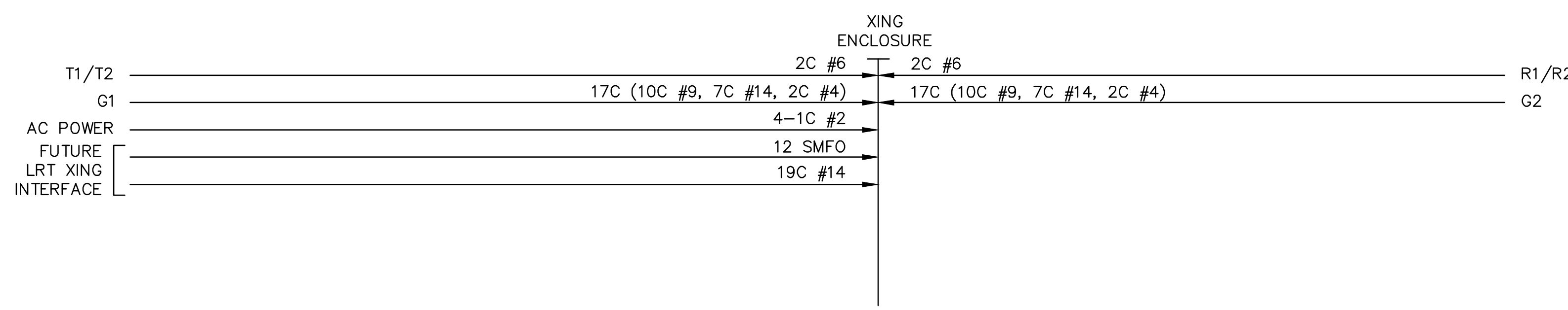
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
CEDAR LAKE PKWY

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SIG-FRT-DTL-005

SHEET 329 OF 464





NOTES:

1. EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 25 MPH.
2. APPROACHES WERE LENGTHENED 5 SECOND(S) FOR WIDE OR ANGLED CROSSING (CT).
3. APPROACHES WERE LENGTHENED 5 SECONDS FOR BUFFER TIME (BT).
4. APPROACHES WERE LENGTHENED 0 SECONDS FOR ADVANCED PREEMPTION (APT).
5. APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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WSP
PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

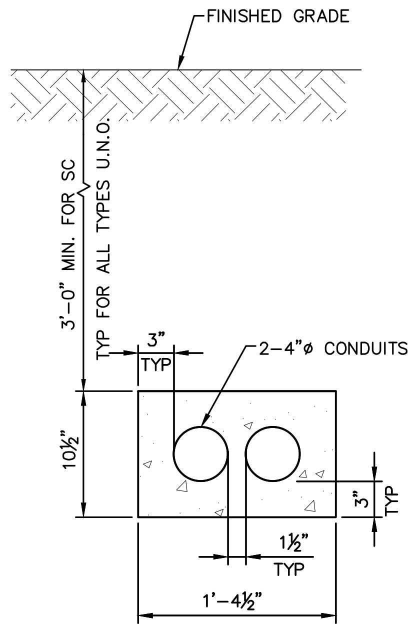
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT CROSSING CABLE PLANS
W 21ST STREET

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SIG-FRT-DTL-006

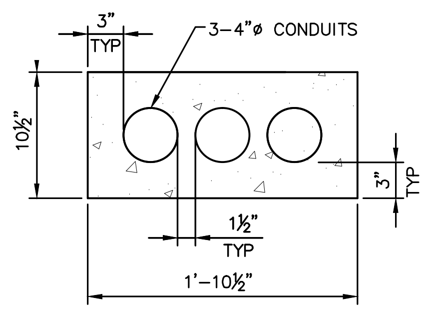
SHEET 330 OF 464

NOTES:

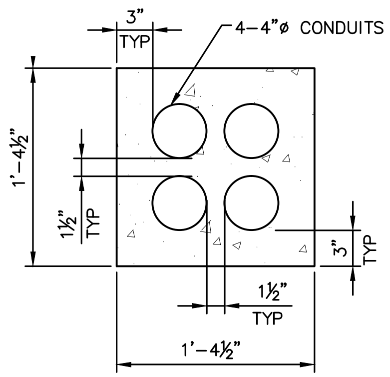
1. TOP OF SC DUCTBANK IS 3'-0" MIN. BELOW FINISHED GRADE UNLESS NOTED OTHERWISE
2. MINIMUM 3000 PSI CONCRETE COMPRESSIVE STRENGTH WITH ASTM A-615 GRADE 60 REINFORCING BARS
3. LAP SPLICE LENGTH PER ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. SEE SPECIFICATIONS SECTION 26 05 43 FOR MORE DETAILED CONCRETE REQUIREMENTS
5. TOP OF DUCTBANK IS 1'-6" MIN. BELOW FINISHED GRADE FOR TYPE 12A



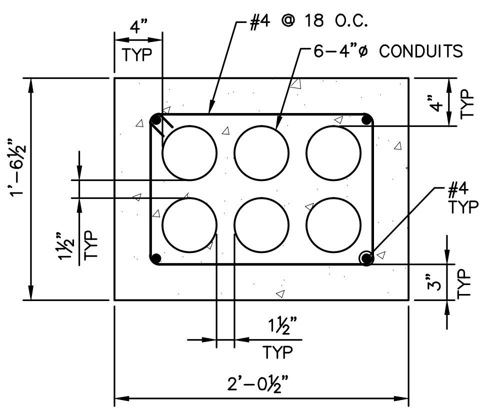
2 TYPE 2
SCALE: 1 1/2"=1'-0"



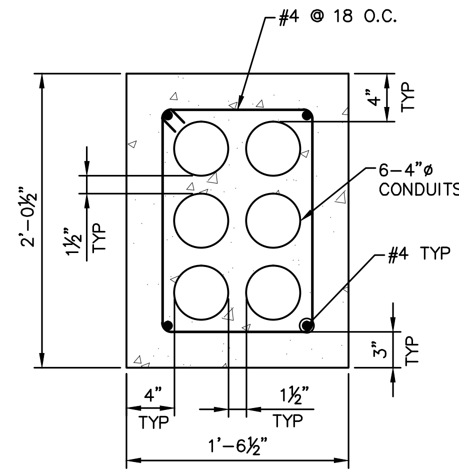
3 TYPE 3 (SEE NOTE 5)
SCALE: 1 1/2"=1'-0"



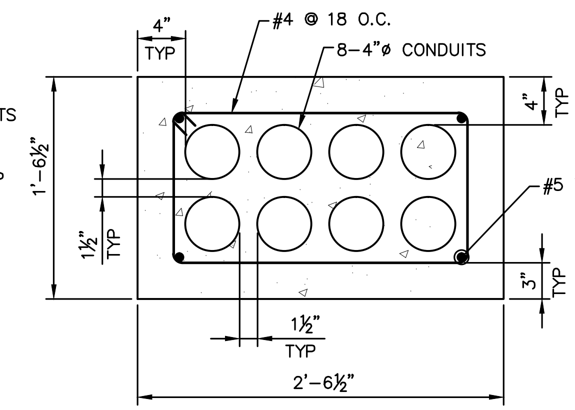
4 TYPE 4
SCALE: 1 1/2"=1'-0"



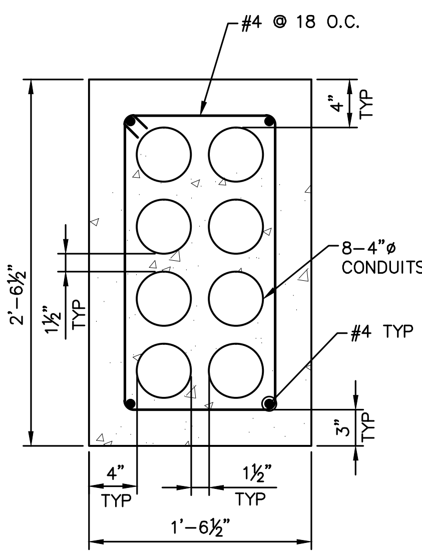
6 TYPE 6
SCALE: 1 1/2"=1'-0"



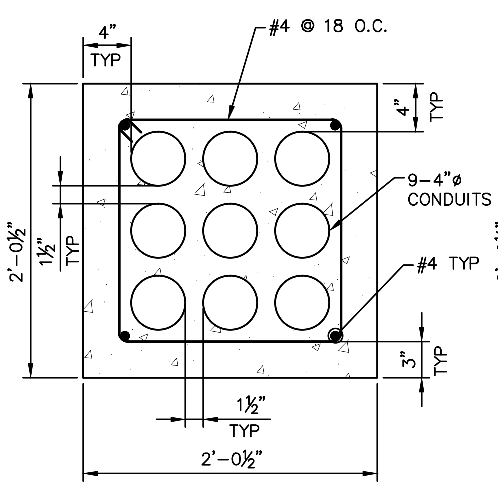
6V TYPE 6V
SCALE: 1 1/2"=1'-0"



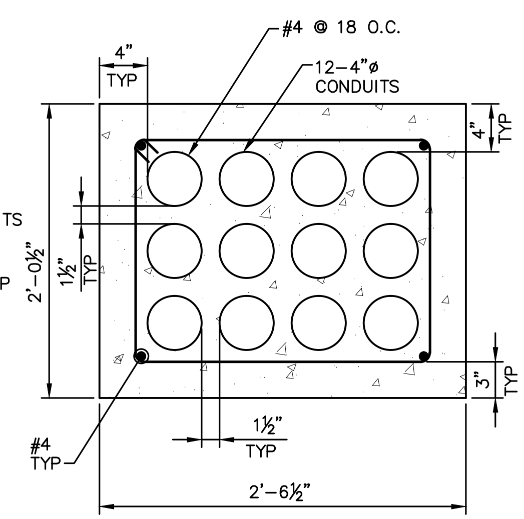
8 TYPE 8
SCALE: 1 1/2"=1'-0"



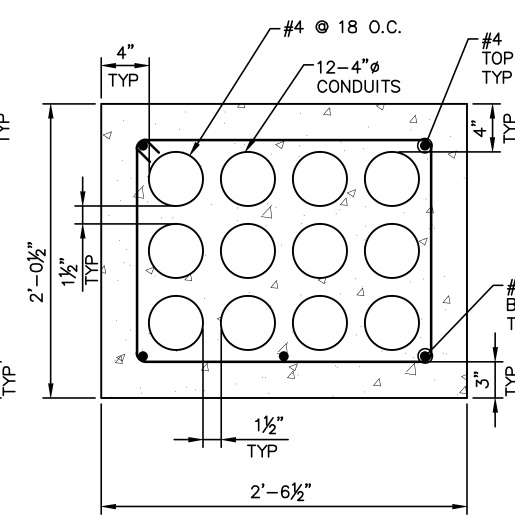
8V TYPE 8V
SCALE: 1 1/2"=1'-0"



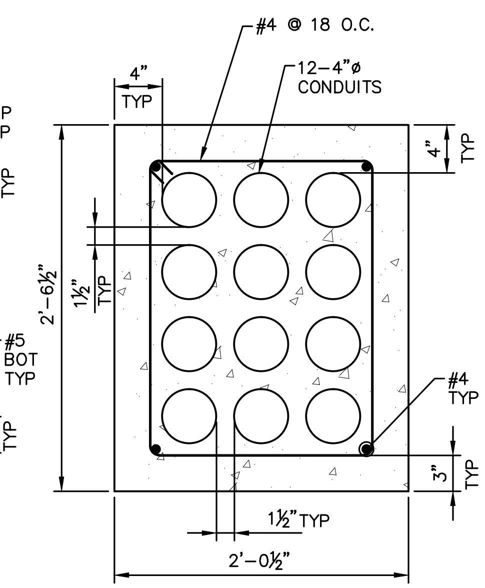
9 TYPE 9
SCALE: 1 1/2"=1'-0"



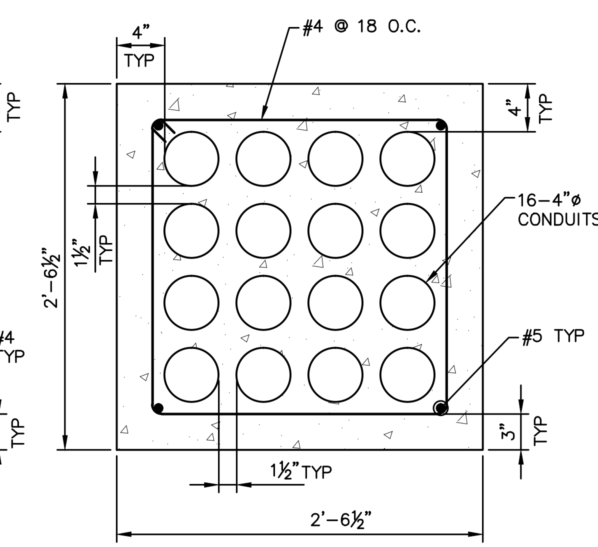
12 TYPE 12
SCALE: 1 1/2"=1'-0"



12A TYPE 12A (SEE NOTE 5)
SCALE: 1 1/2"=1'-0"



12V TYPE 12V
SCALE: 1 1/2"=1'-0"



16 TYPE 16
SCALE: 1 1/2"=1'-0"

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
SC DUCTBANK SECTIONS

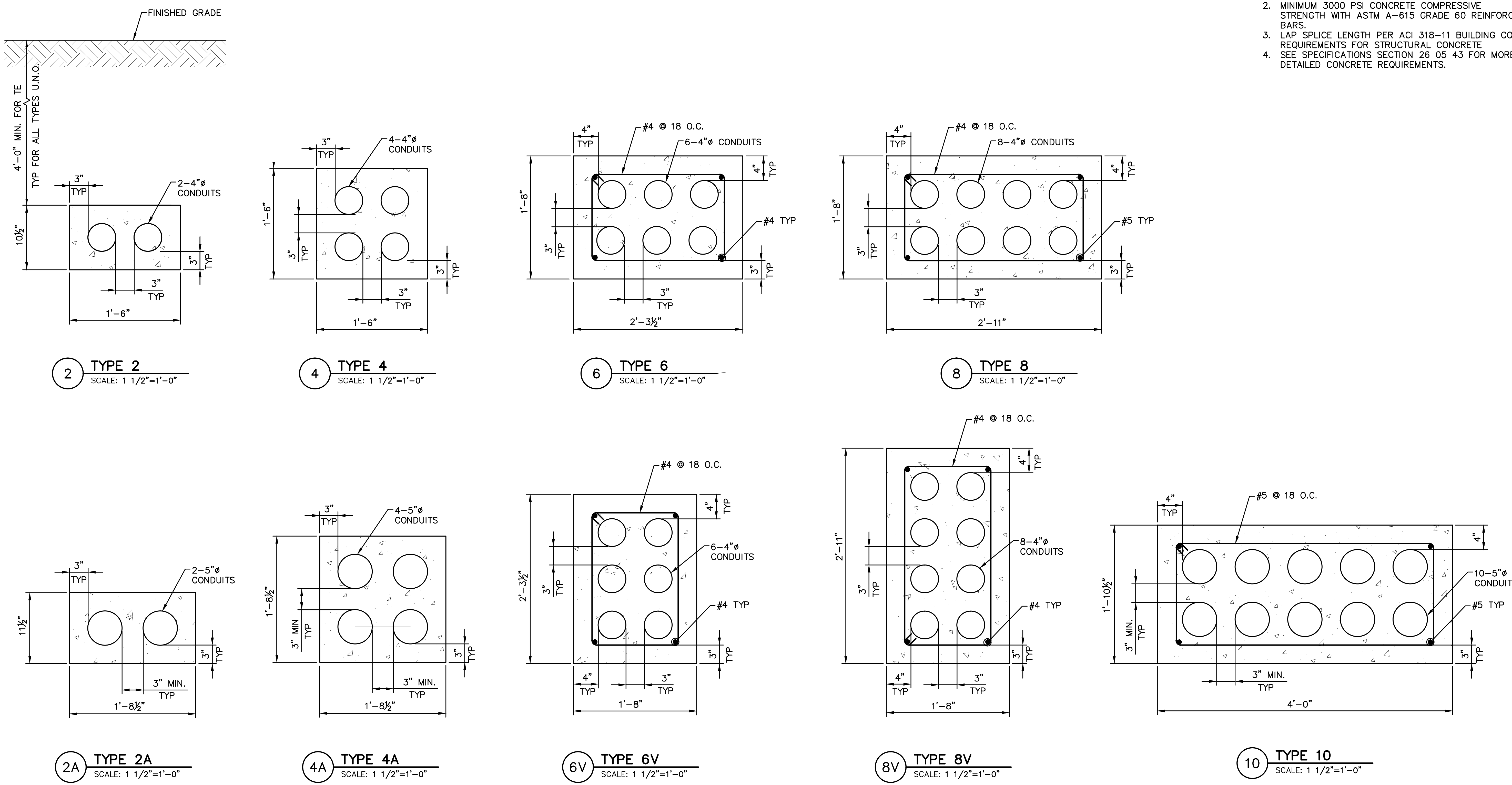
DISCIPLINE: STRUCTURAL

SHEET NAME: W0-SYS-STU-DTL-001

SHEET 331 OF 464

NOTES:

1. TOP OF TE DUCTBANK IS 4'–0" MIN. BELOW FINISHED GRADE UNLESS NOTED OTHERWISE
2. MINIMUM 3000 PSI CONCRETE COMPRESSIVE STRENGTH WITH ASTM A–615 GRADE 60 REINFORCING BARS.
3. LAP SPLICE LENGTH PER ACI 318–11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. SEE SPECIFICATIONS SECTION 26 05 43 FOR MORE DETAILED CONCRETE REQUIREMENTS.



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
TE DUCTBANK SECTIONS

DISCIPLINE: STRUCTURAL

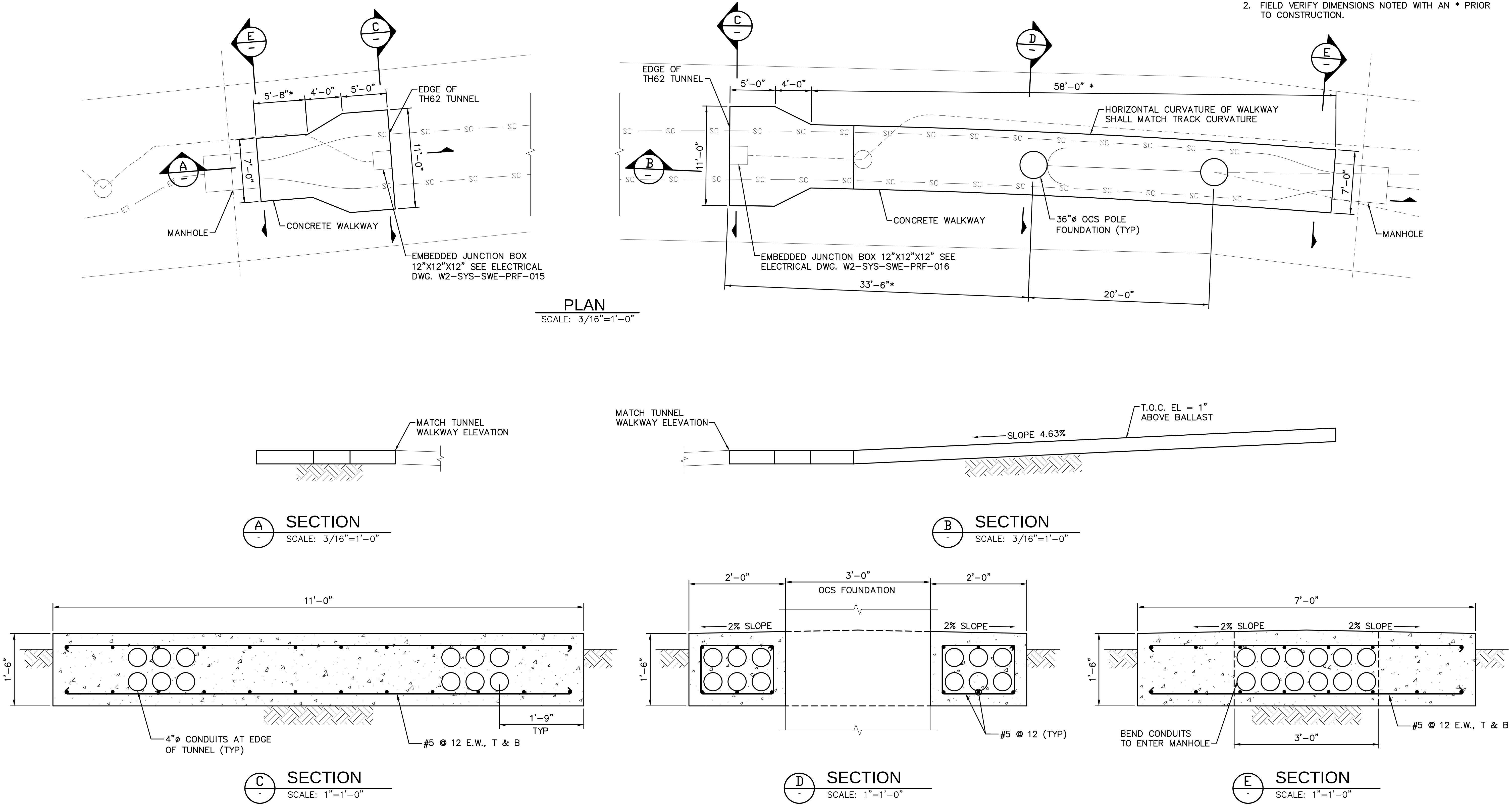
SHEET NAME: W0-SYS-STU-DTL-002

SHEET 332 OF 464

Jan, 13 2016 10:32 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\STRUCTURAL\W0-SYS-STU-DTL-002.dwg By: orozcog

NOTES:

1. SEE DRAWINGS W2-SYS-SWE-PRF-015 AND W2-SYS-SWE-PRF-016 FOR LAYOUT PLAN AND PROFILE OF CONCRETE WALKWAYS.
2. FIELD VERIFY DIMENSIONS NOTED WITH AN * PRIOR TO CONSTRUCTION.



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL DETAILS
TH62 CONCRETE WALKWAY

DISCIPLINE: STRUCTURAL

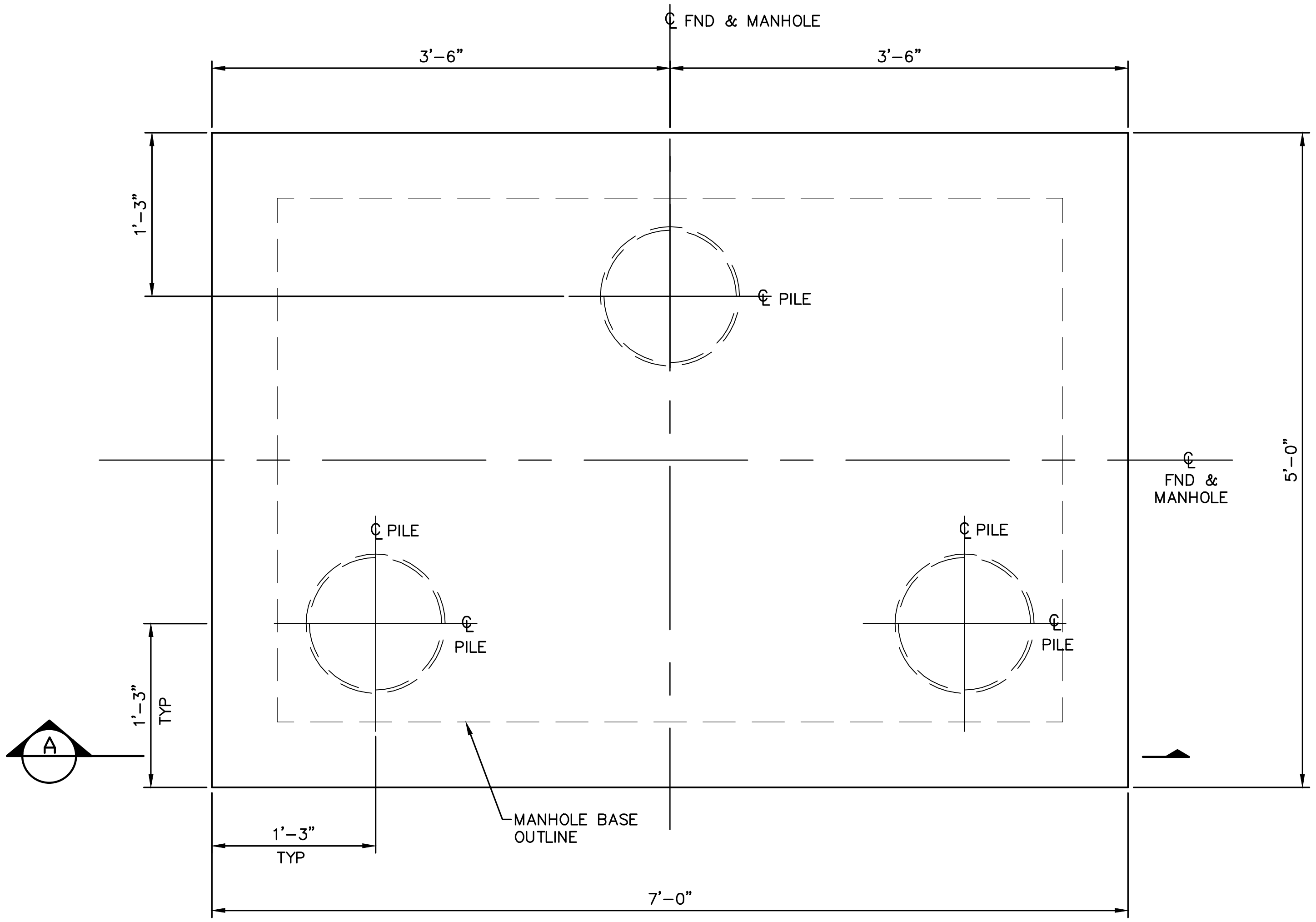
SHEET NAME: W0-SYS-STU-DTL-003

SHEET 333 OF 464

Jan. 15 2016 07:59 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\STRUCTURAL\W0-SYS-STU-DTL-003.dwg By: LuoJ

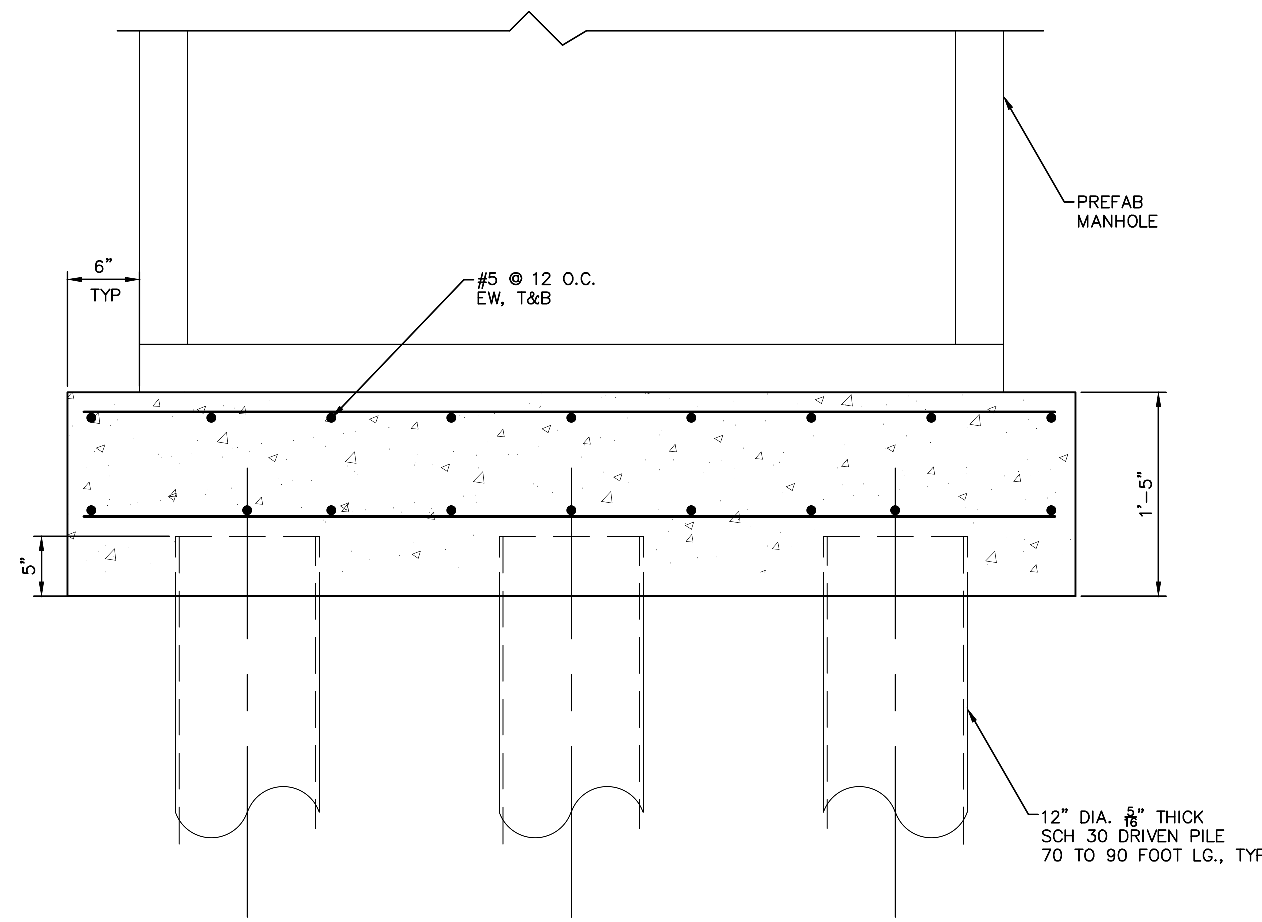
NOTES:

1. SEE DWG. W2-SYS-SWE-PRF-006 FOR MANHOLE LOCATIONS
2. MINIMUM 4000 PSI CONCRETE COMPRESSIVE STRENGTH WITH ASTM A-615 GRADE 60 REINFORCING BARS
3. LAP SPLICE LENGTH PER ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. SEE SPECIFICATIONS SECTION 26 05 43 FOR MORE DETAILED CONCRETE REQUIREMENTS



FOUNDATION PLAN

SCALE: 1½" = 1'-0"



A SECTION

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

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

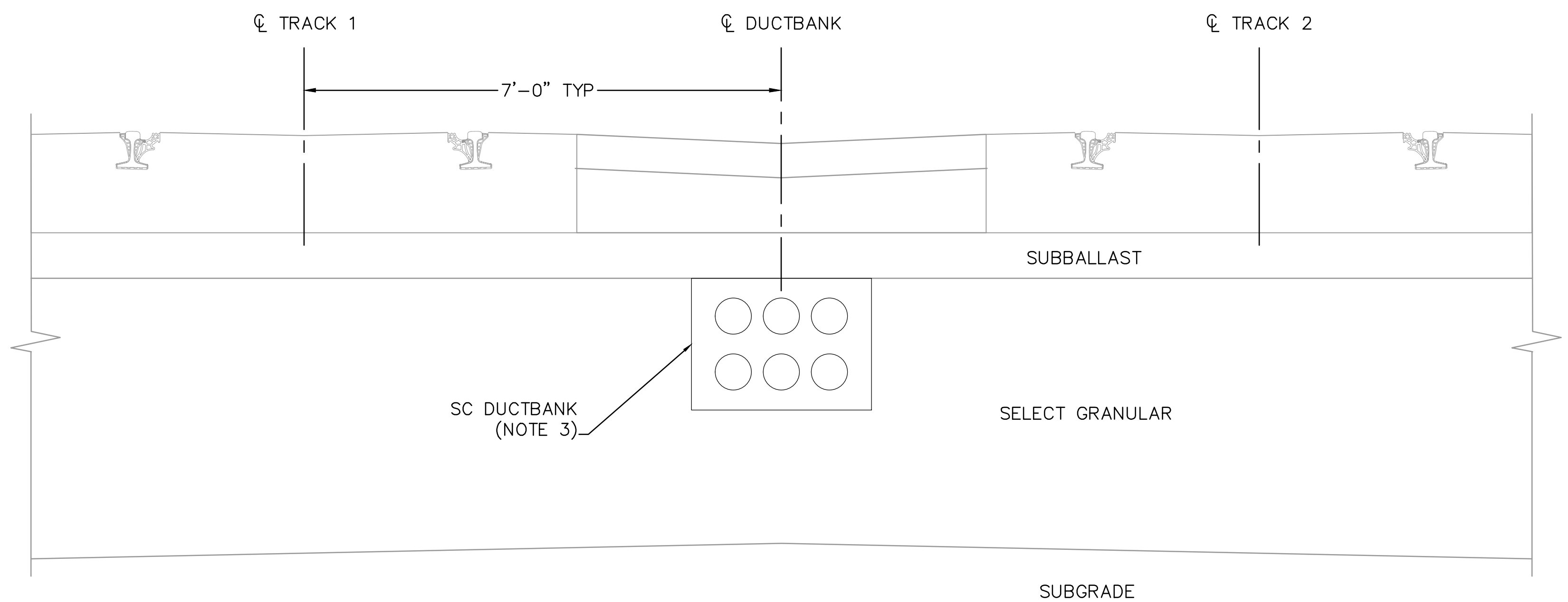
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
GOLDEN TRIANGLE STATION
MANHOLE PILE FOUNDATION DETAIL

DISCIPLINE: STRUCTURAL

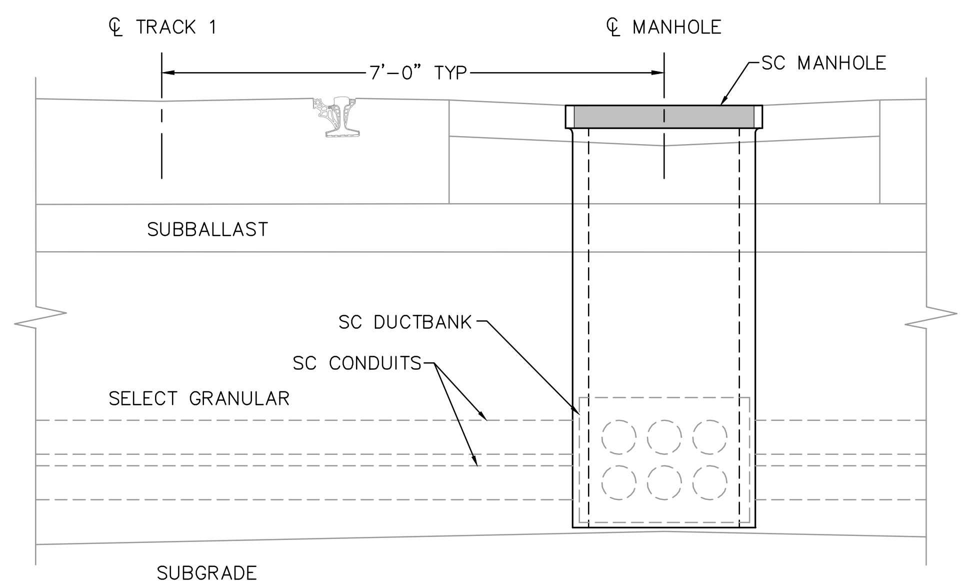
SHEET NAME: W0-SYS-STU-DTL-004

SHEET 334 OF 464

Jan. 14 2016 11:33 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\STRUCTURAL\W0-SYS-STU-DTL-004.dwg By: LuoJ



1 SC DUCTBANK AT EMBEDDED TRACK SLAB
NTS



2 SC DUCTBANK TRANSITION INTO MANHOLE
NTS

NOTES:

1. FIELD COORDINATE FINAL TOP ELEVATION OF ALL DUCTBANKS. ALL DUCTS TO BE SLOPED A MINIMUM OF 1 INCH PER 100 FEET TOWARDS MANHOLE OR HANDHOLE FOR POSITIVE DRAINAGE.
2. BOTTOM OF DUCTBANKS TO BE INSTALLED ABOVE TRACK DRAINAGE PIPES, SEE DRAINAGE PLANS FOR DETAILS.
3. OFFSET DUCTBANK TO AVOID CONFLICT WITH OCS POLES.

Jan. 14 2016 11:17 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W0-SYS-SWE-DTL.dwg By: V-LeeVG

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METROPOLITAN COUNCIL

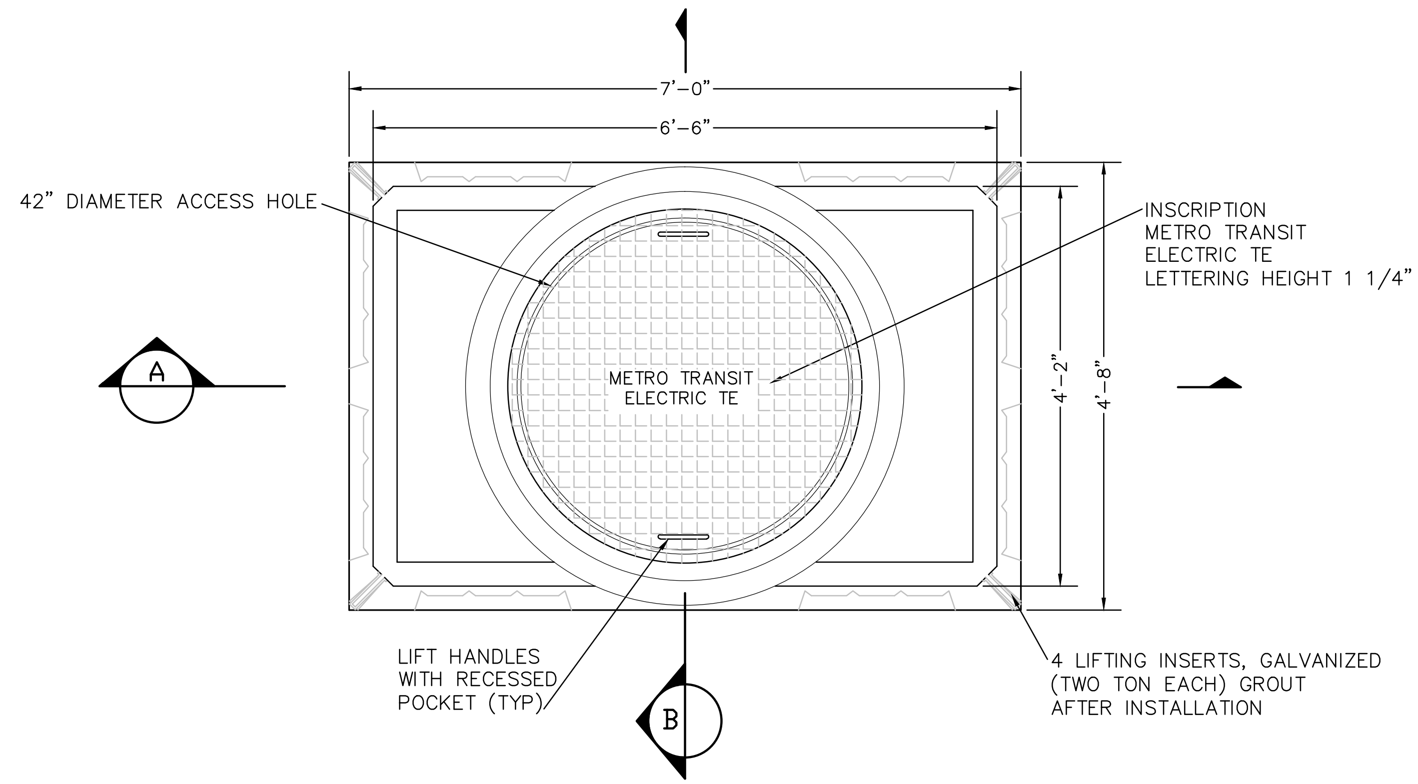
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DUCTBANK INSTALLATION
EMBEDDED TRACK

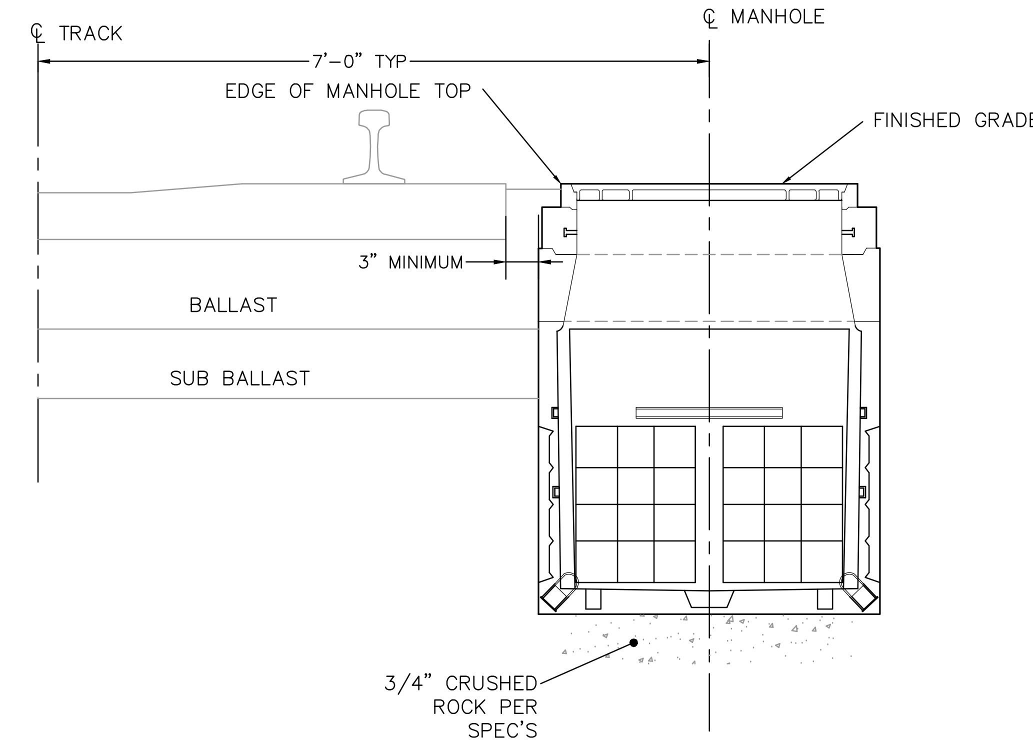
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-001

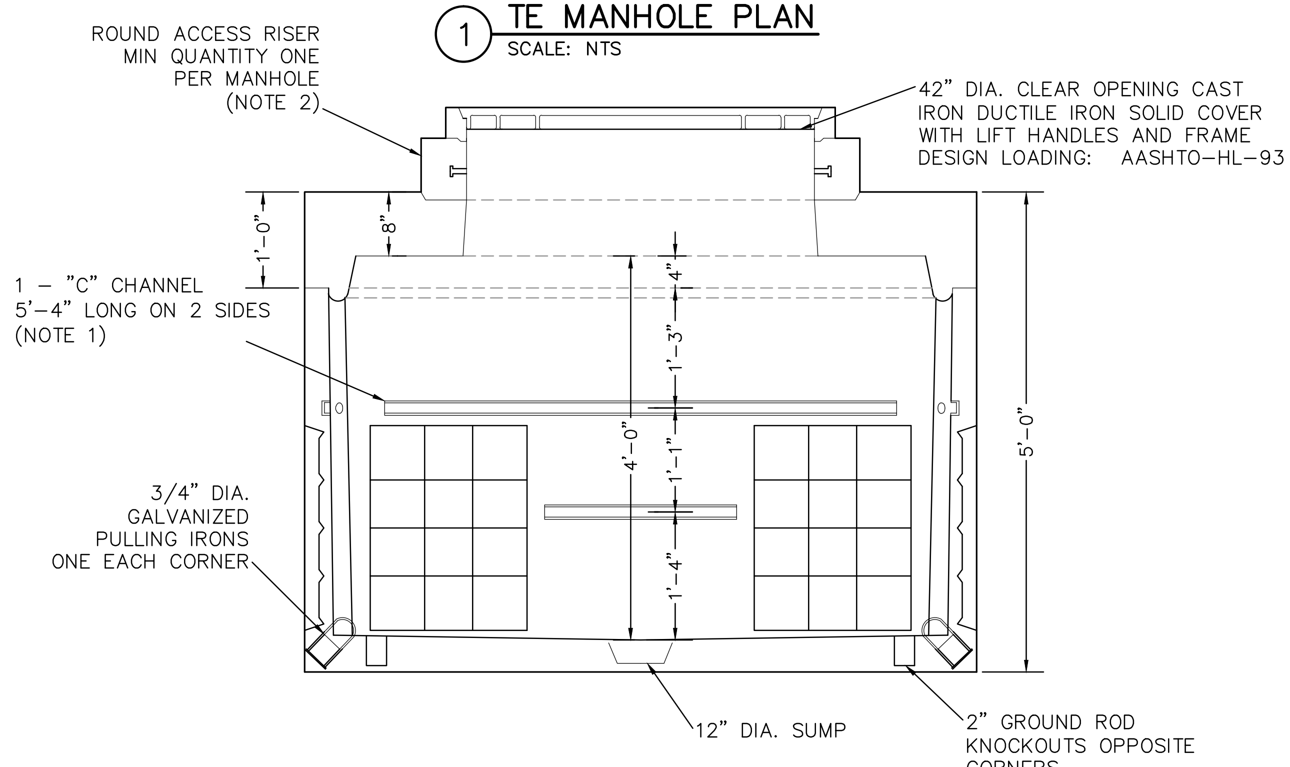
SHEET 335 OF 464



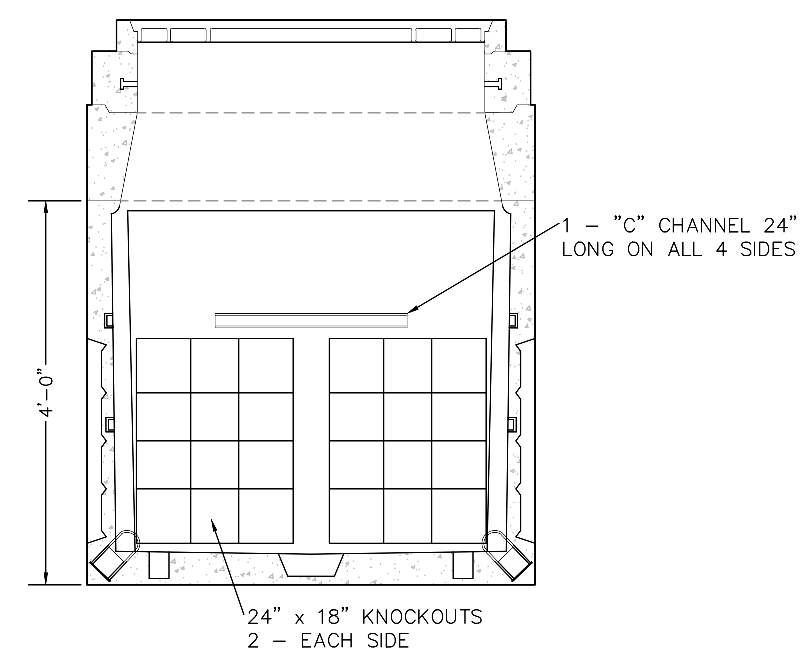
1 TE MANHOLE PLAN
SCALE: NTS



2 TE MANHOLE TYPICAL INSTALLATION
SCALE: NTS



A SECTION
SCALE: NTS



B SECTION
SCALE: NTS

NOTES:

1. INSTALL SIX CABLE RACKS WITH TWELVE INSULATORS PER MANHOLE.
2. USE ROUND ACCESS RISERS (30" MAX) TO ACHIEVE FINAL ELEVATION.
3. MANHOLE AND COVERS SHALL BE DESIGNED TO WITHSTAND AASHTO HL-93 WHEEL LOADINGS. SUITABLE FOR USE IN OFF STREET LOCATIONS.
4. SEE SPECIFICATIONS SECTION 26 05 45 FOR DETAIL

Jan, 14 2016 11:17 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W0-SYS-SWE-DTL.dwg By: V-LeeVG

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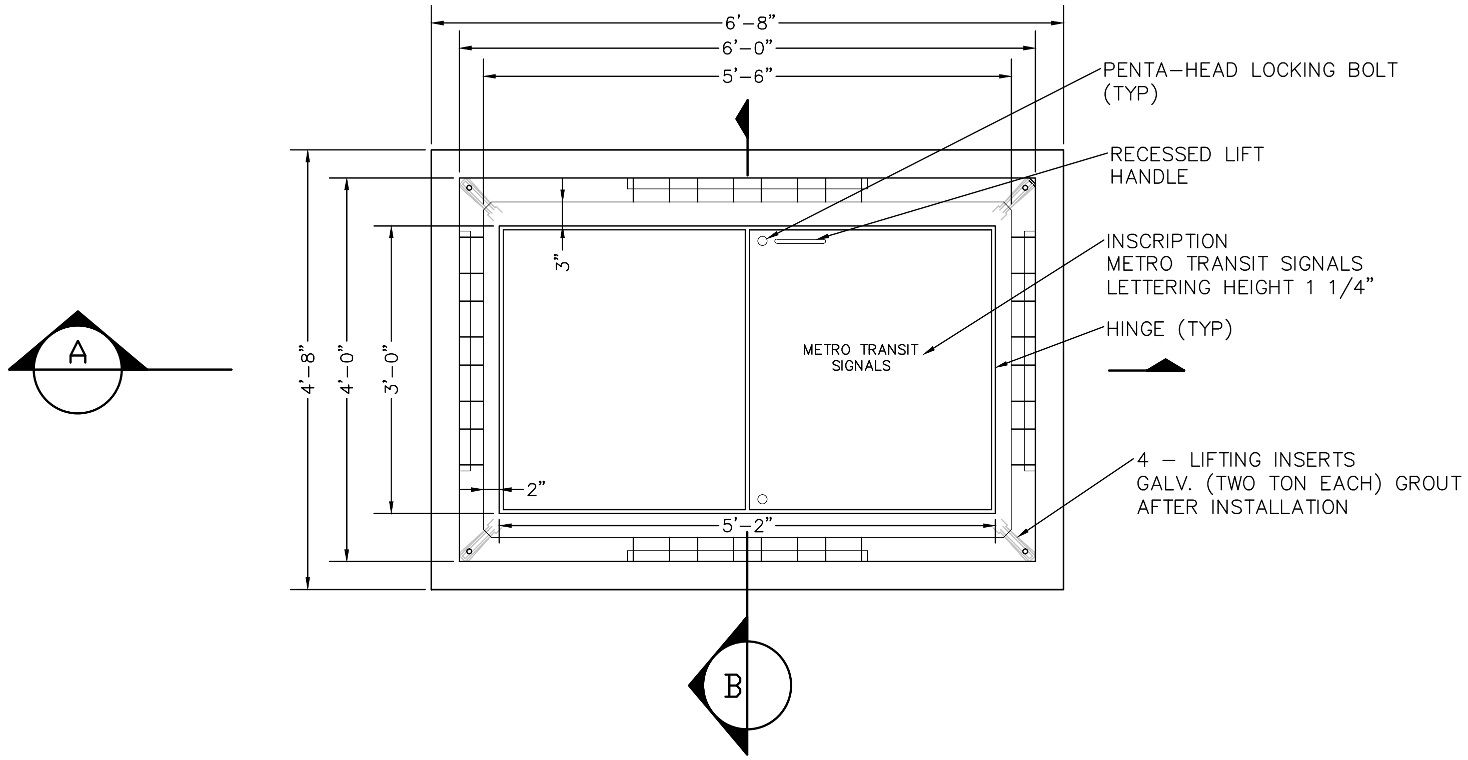
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

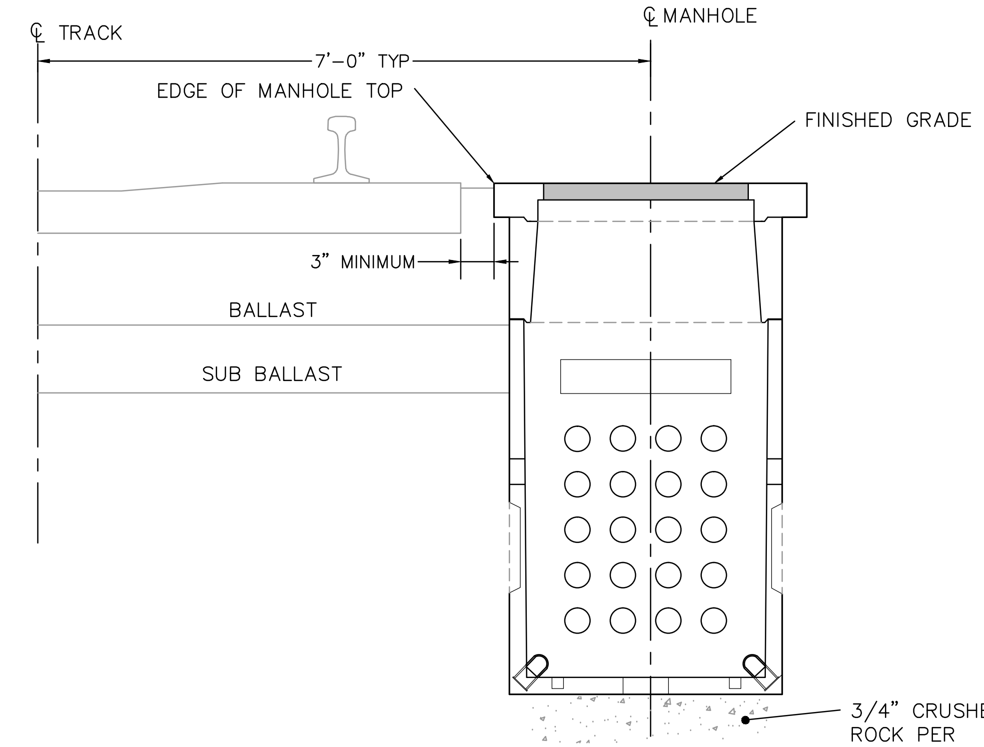
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
TE MANHOLE

DISCIPLINE: SYSTEMS

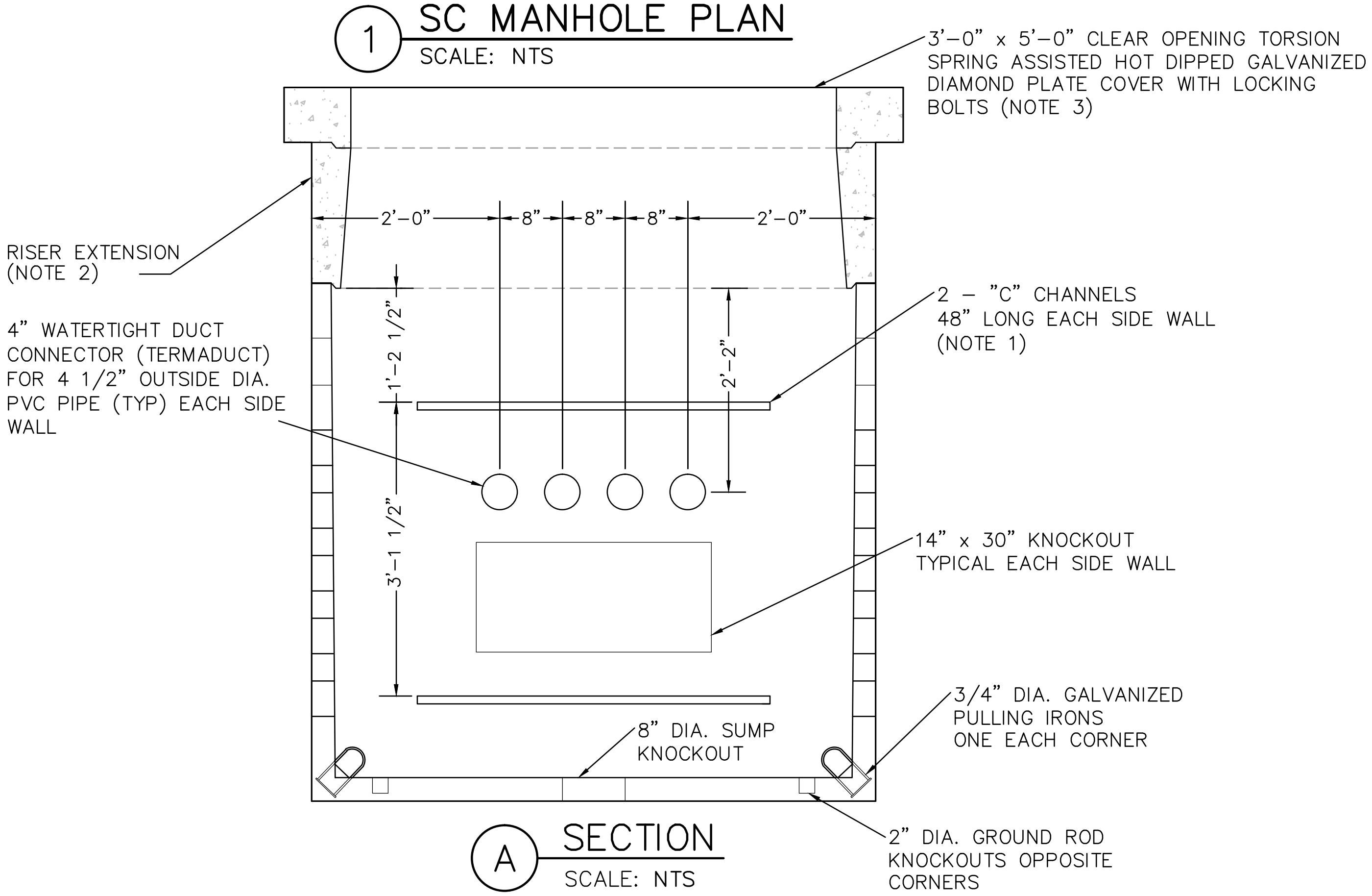
SHEET NAME: W0-SYS-SWE-DTL-002



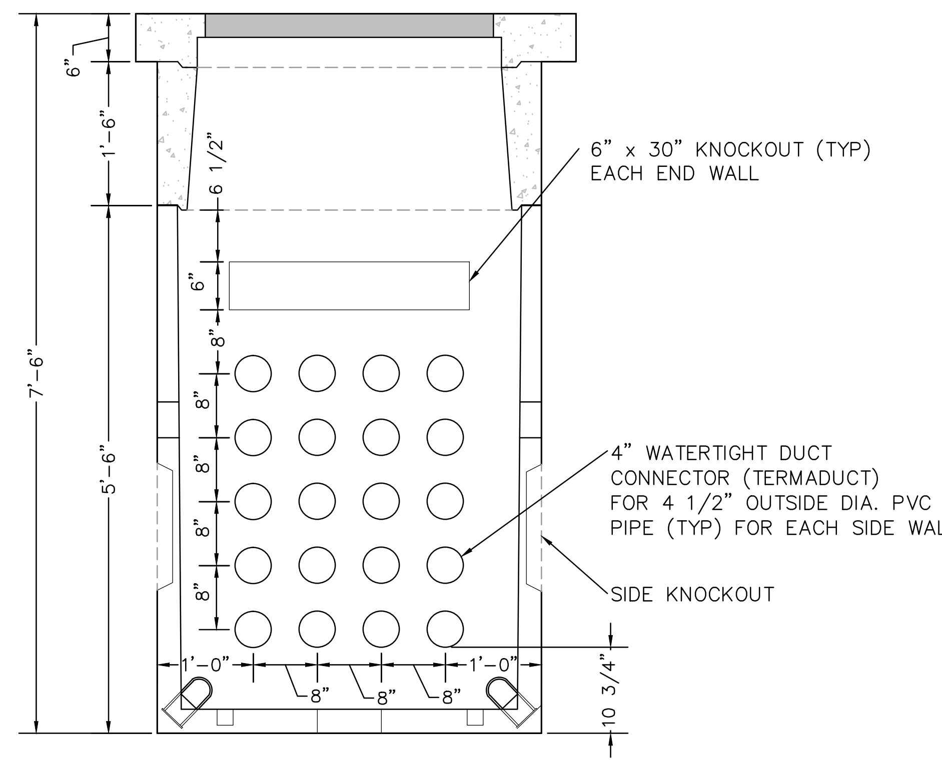
1 SC MANHOLE PLAN
SCALE: NTS



2 SC MANHOLE TYPICAL INSTALLATION
SCALE: NTS



A SECTION
SCALE: NTS



B SECTION
SCALE: NTS

NOTE:

1. INSTALL EIGHT CABLE RACKS WITH SIXTEEN INSULATORS PER MANHOLE.
2. USE RISER EXTENSIONS TO ACHIEVE FINAL ELEVATION.
3. MANHOLE AND COVERS SHALL BE DESIGNED TO WITHSTAND AASHTO HL-93 WHEEL LOADINGS. SUITABLE FOR USE IN OFF STREET LOCATIONS.
4. SEE SPECIFICATIONS SECTION 26 05 45 FOR DETAIL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
SC MANHOLE

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-003

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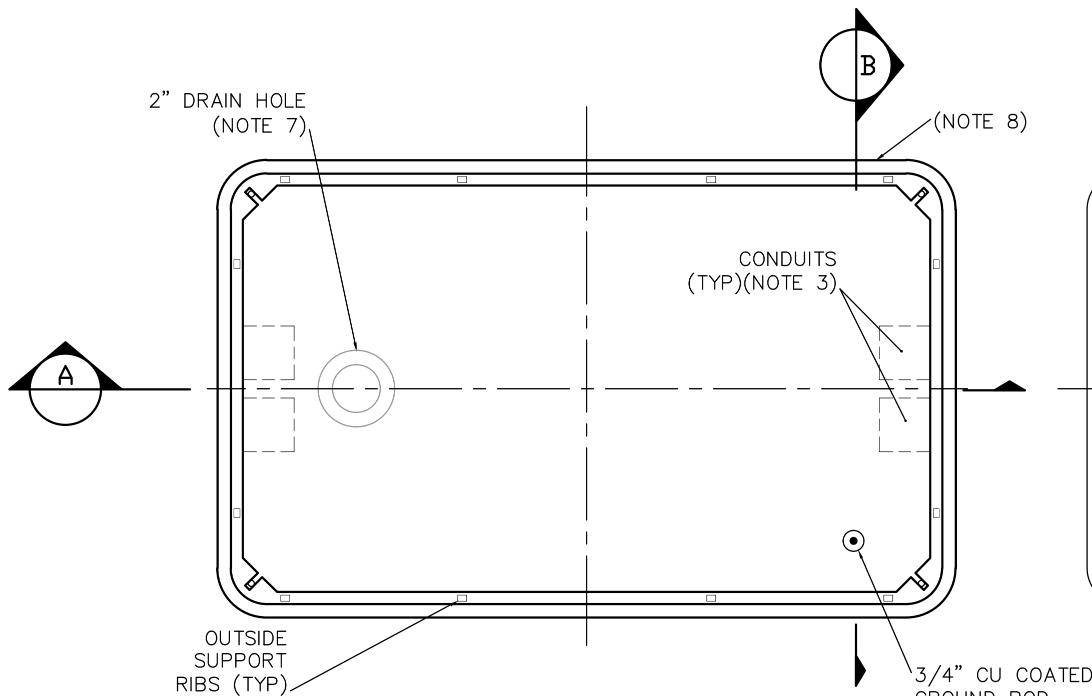
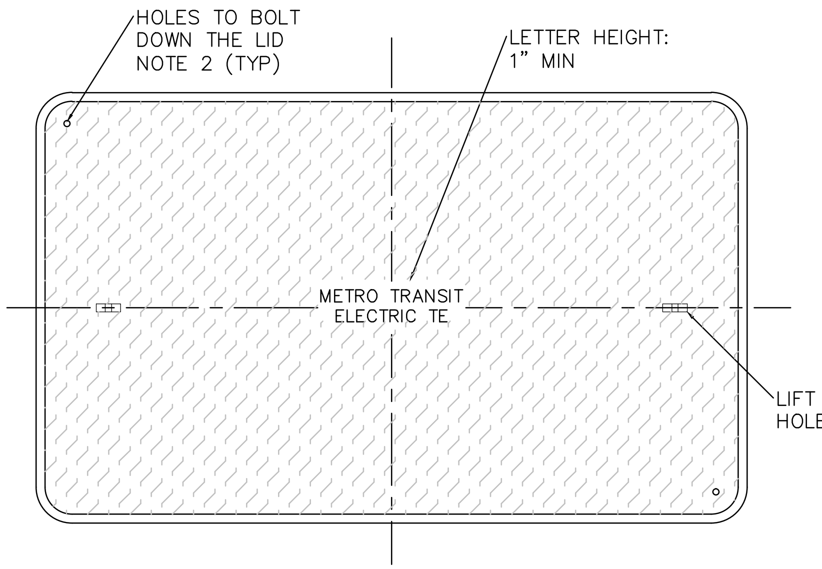
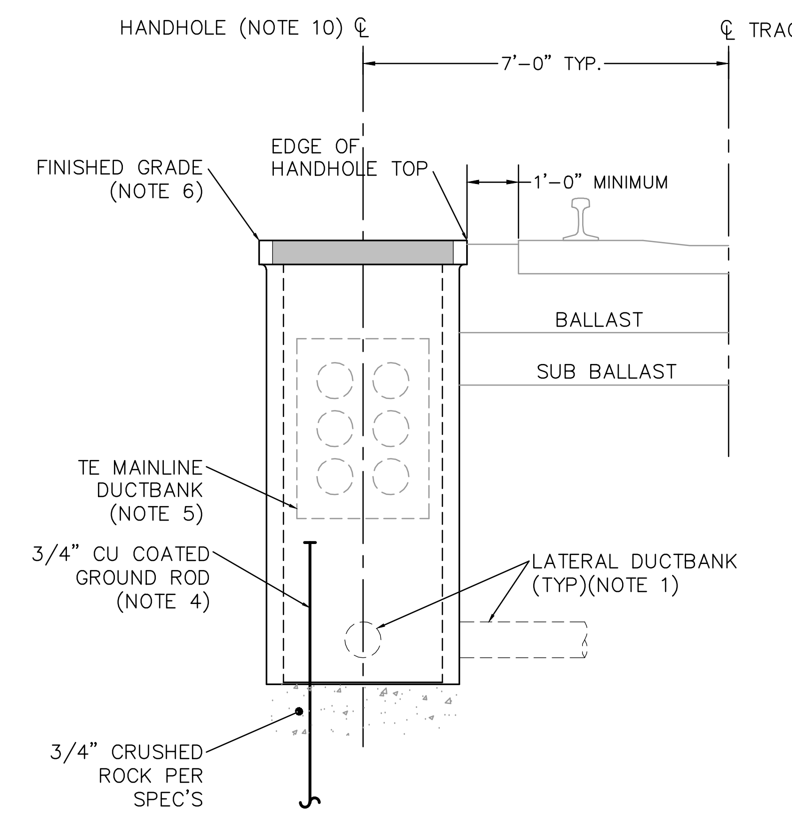


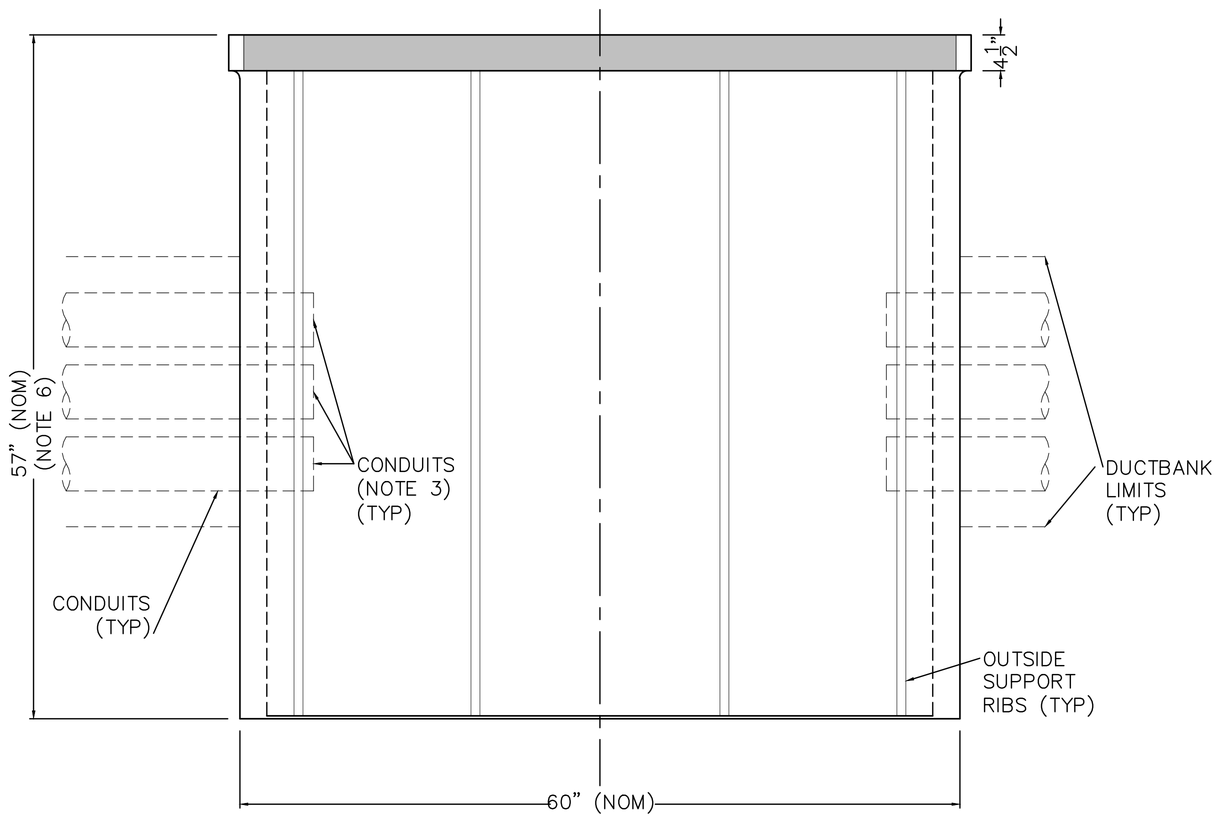
1 HANDHOLE TYPE TE PLAN
SCALE: NTS



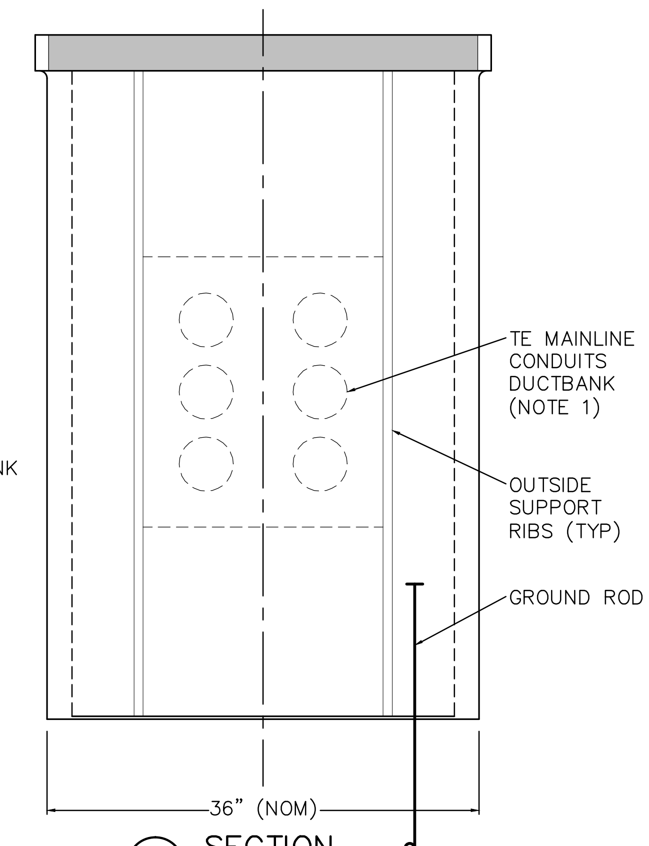
COVER



2 TE HANDHOLE TYPICAL INSTALLATION
SCALE: NTS



A SECTION
SCALE: NTS



B SECTION
SCALE: NTS

NOTES:

1. CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ADDITIONAL CONDUITS MAY BE REQUIRED AS SHOWN ON THE PLAN SHEETS.
2. SEE SPECIFICATIONS REGARDING HOLD–DOWN BOLTS SECTION 26 05 45.
3. CONDUITS SHALL EXTEND INTO THE HANDHOLE A MAXIMUM OF 1" FROM THE INSIDE WALL AND TERMINATE WITH BELL END FITTINGS.
4. INSTALL GROUND ROD CAUTIOUSLY TO AVOID DAMAGE TO POSSIBLE UTILITY INSTALLATIONS.
5. ADJUST CONDUIT ENTRY INTO THE HANDHOLE TO CREATE POSITIVE CONDUIT DRAINAGE AND TO ENTER CENTER OF HANDHOLE.
6. ADJUST DEPTH OF HANDHOLE TO ASSURE THAT COVER IS FLUSH WITH FINISHED GRADE. FOR LOCATIONS ON BRIDGES AND LAND BRIDGES TOP OF HANDHOLE IS TO BE AT THE SAME ELEVATION AS TOP OF WALKWAY.
7. LOCATE DRAIN HOLE ON LOWER END OF HANDHOLE AND PROVIDE STAINLESS STEEL SNAP–IN TYPE GRATE.
8. HANDHOLE MANUFACTURER IS SYNERTECH, MODEL NO. S3660C60FA OR APPROVED EQUAL.
9. SPECIAL HANDHOLE TYPES MAY BE REQUIRED AT SOME LOCATIONS.
10. HANDHOLE OFFSET DIMENSION IS VARIABLE. FINAL PLACEMENT OF HANDHOLE SHALL ASSURE THAT HANDHOLE TOP DOES NOT CONFLICT WITH TRACK CONSTRUCTION. SEE SYSTEMWIDE ELECTRICAL SCHEDULE SHEETS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

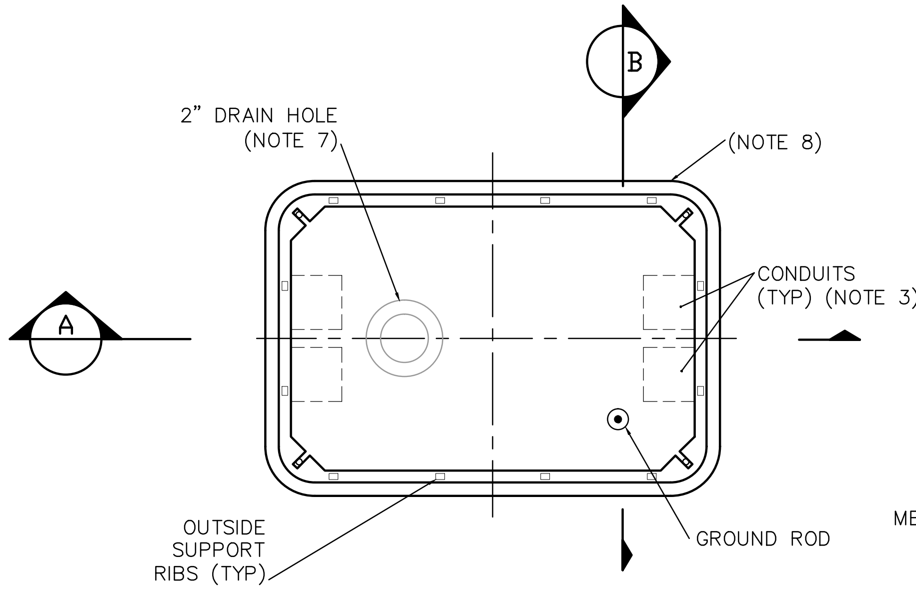
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
TE HANDHOLE

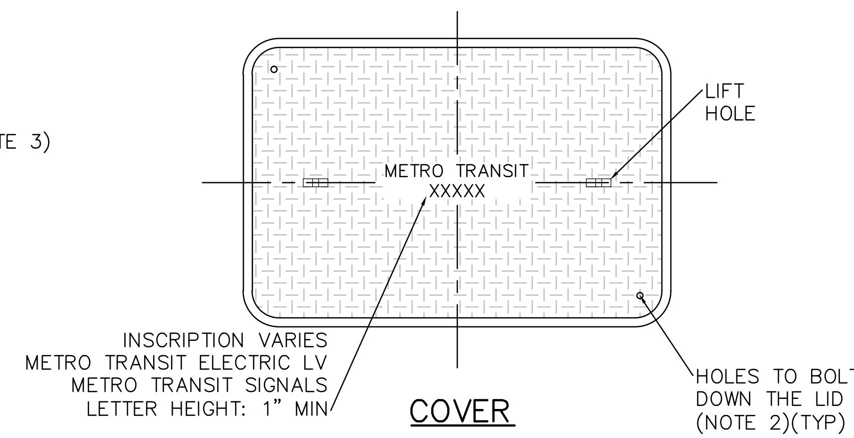
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-004

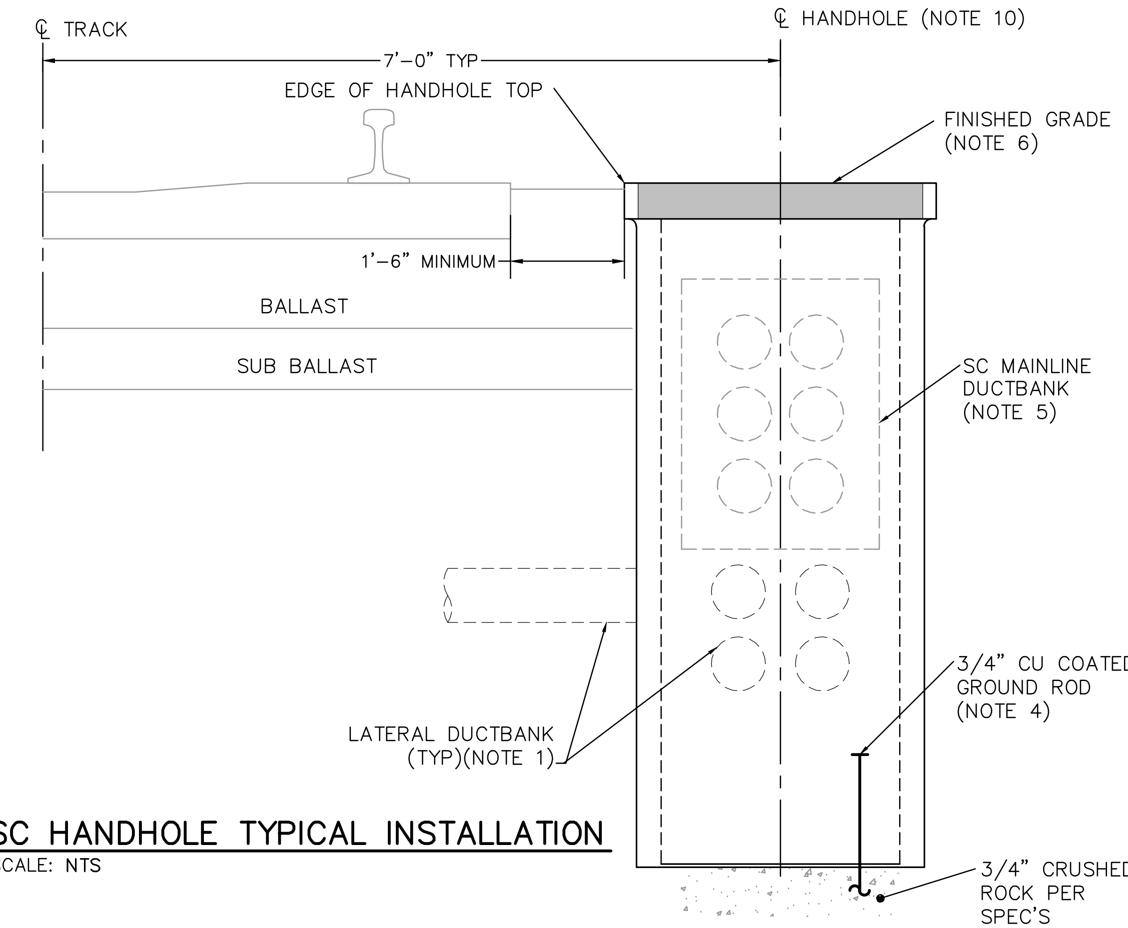
SHEET 338 OF 464



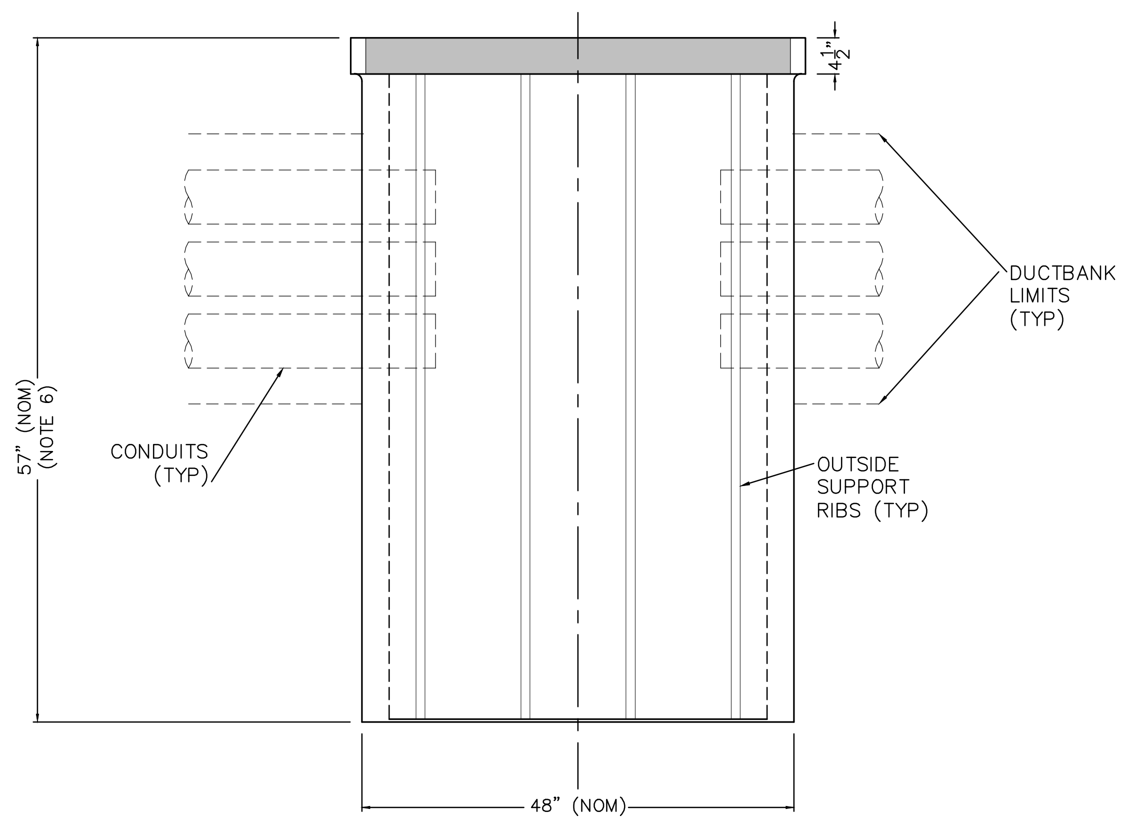
1 HANDHOLE TYPE SC PLAN
SCALE: NTS



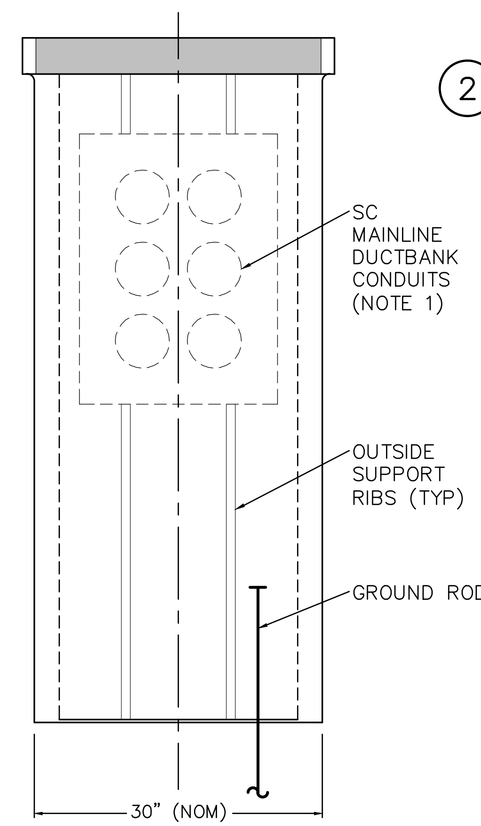
COVER



2 SC HANDHOLE TYPICAL INSTALLATION
SCALE: NTS



A SECTION
SCALE: NTS



B SECTION
SCALE: NTS

NOTES:

1. CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ADDITIONAL CONDUITS MAY BE REQUIRED AS SHOWN ON THE PLAN SHEETS.
2. SEE SPECIFICATIONS REGARDING HOLD-DOWN BOLTS SECTION 26 05 45.
3. CONDUITS SHALL EXTEND INTO THE HANDHOLE A MAXIMUM OF 1" FROM THE INSIDE WALL AND TERMINATE WITH BELL END FITTINGS.
4. INSTALL GROUND ROD CAUTIOUSLY TO AVOID DAMAGE TO POSSIBLE UTILITY INSTALLATIONS.
5. ADJUST CONDUIT ENTRY INTO THE HANDHOLE TO CREATE POSITIVE CONDUIT DRAINAGE AND TO ENTER CENTER OF HANDHOLE.
6. ADJUST DEPTH OF HANDHOLE TO ASSURE THAT COVER IS FLUSH WITH FINISHED GRADE. FOR LOCATIONS ON BRIDGES AND LAND BRIDGES TOP OF HANDHOLE IS TO BE AT THE SAME ELEVATION AS TOP OF WALKWAY.
7. LOCATE DRAIN HOLE ON LOWER END OF HANDHOLE AND PROVIDE STAINLESS STEEL SNAP-IN TYPE GRATE.
8. HANDHOLE MANUFACTURER IS SYNERTECH, MODEL NO. S3048C60FA OR APPROVED EQUAL.
9. SPECIAL HANDHOLE TYPES MAY BE REQUIRED FOR SOME LAYOUTS.
10. HANDHOLE OFFSET DIMENSION IS VARIABLE. FINAL PLACEMENT OF HANDHOLE SHALL ASSURE THAT HANDHOLE TOP DOES NOT CONFLICT WITH TRACK CONSTRUCTION. SEE SYSTEMWIDE ELECTRICAL SCHEDULE SHEETS.

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
SC HANDHOLE

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-005

SHEET 339 OF 464

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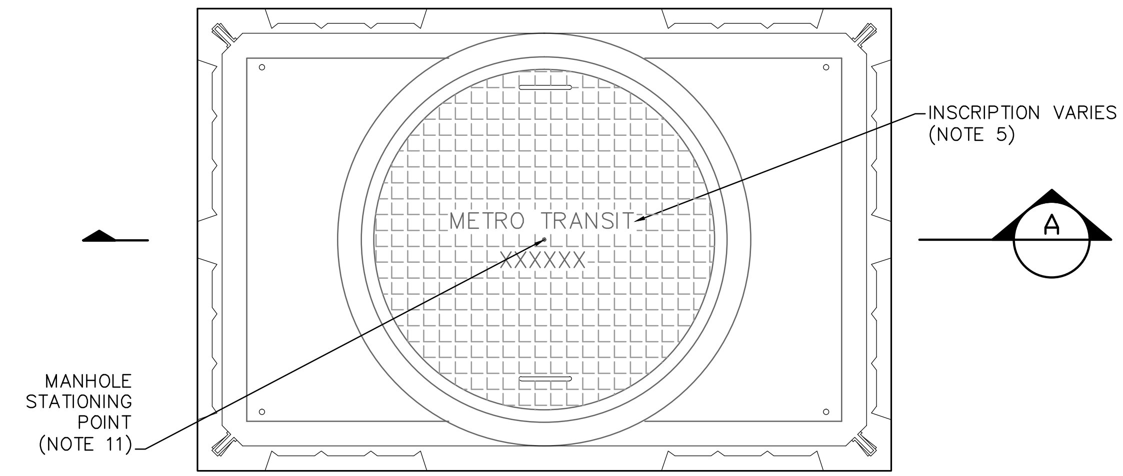
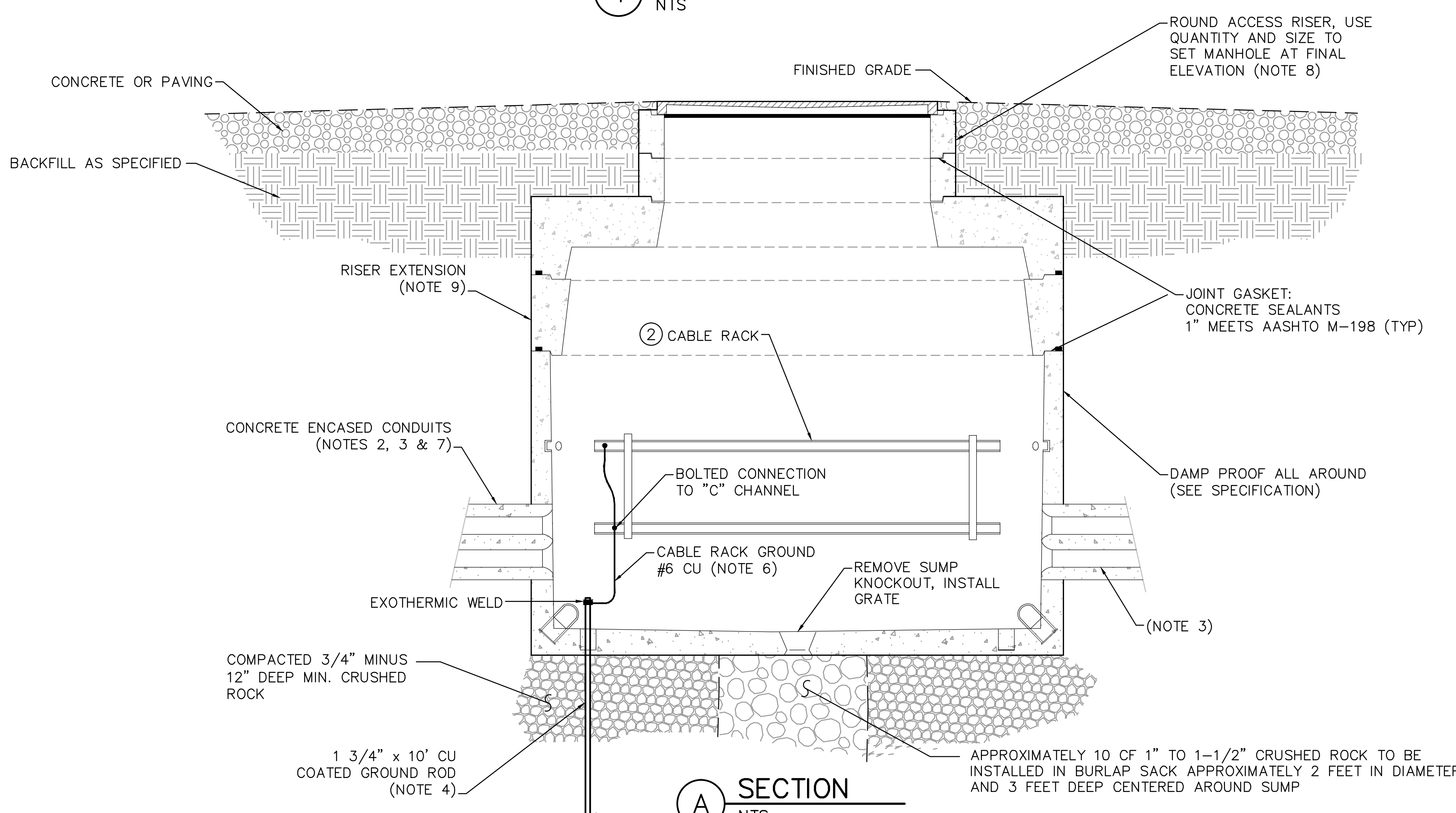
NOTES:

1. CABLE RACKS AND INSULATORS SHALL BE FURNISHED WITH MANHOLE AND INSTALLED ON ALL FOUR WALLS. RACKS SHALL BE ADJUSTABLE IN HORIZONTAL AND VERTICAL DIRECTION. SEE MANHOLE DETAILS FOR QUANTITIES.
2. ALL CONDUITS SHALL ENTER MANHOLE KNOCKOUT OR TERMADUCT ONLY AT 90° TO WALL.
3. ALL CONDUITS SHALL SLOPE CONTINUALLY DOWN AT A MINIMUM OF 1" PER 100 FEET TO PROVIDE POSITIVE DRAINAGE TO MANHOLES.
4. INSTALL GROUND ROD CAUTIOUSLY TO AVOID DAMAGE TO POSSIBLE UTILITY INSTALLATIONS.
5. CAST IRON AND DIAMOND PLATE COVERS USED FOR SIGNALS AND COMMUNICATIONS SHALL BE MARKED "METRO TRANSIT SIGNALS". CAST IRON COVERS USED FOR TRACTION ELECTRIFICATION OR 15Kv ELECTRICAL SHALL BE MARKED "METRO TRANSIT ELECTRIC T.E." OR "METRO TRANSIT ELECTRIC H.V.". DIAMOND PLATE COVERS USED FOR TRACTION ELECTRIFICATION OR 15Kv ELECTRICAL SHALL BE MARKED "METRO TRANSIT ELECTRIFICATION" OR "METRO TRANSIT 15Kv ELECTRICAL."
6. GROUND ALL CABLE RACKS AND CONDUIT GROUNDING BUSHINGS TO GROUND ROD.
7. SEE SYSTEMWIDE ELECTRICAL PLANS FOR NUMBERS AND TYPES OF DUCTS.
8. FOR CAST IRON COVERS USE ROUND ACCESS RISERS TO SET MANHOLE FLUSH WITH FINISHED GRADE. THE TOTAL HEIGHT OF ALL ROUND ACCESS RISERS INSTALLED ON A MANHOLE SHALL NOT EXCEED 30 INCHES.
9. USE RISER EXTENSIONS ON MANHOLES WITH DIAMOND PLATE COVERS OR WHEN 30" OF ROUND ACCESS RISERS DO NOT SET MANHOLE FLUSH WITH FINISHED GRADE.
10. ALL MANHOLES AND COVERS SHALL BE DESIGNED FOR HL-93 LOADING, UNLESS NOTED OTHERWISE
11. MANHOLE STATIONING POINT, SHOWN IN SCHEDULE, CORRESPONDS TO CENTER POINT OF MANHOLE TOP.
12. SEE W0-SYS-SWE-DTL-007 FOR MANHOLE AND CONDUIT LABELING.

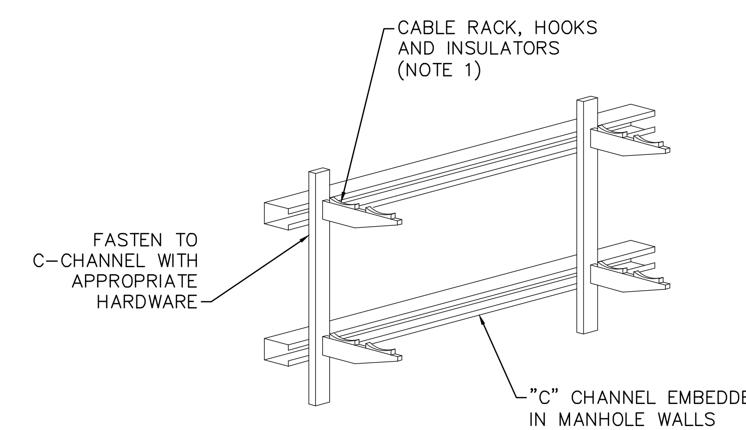


PLAN VIEW

TYPICAL PRE-CAST MANHOLE INSTALLATION
1
NTS



A SECTION
NTS



2 CABLE RACK
NTS

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
TYPICAL MANHOLE INSTALLATION

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-006

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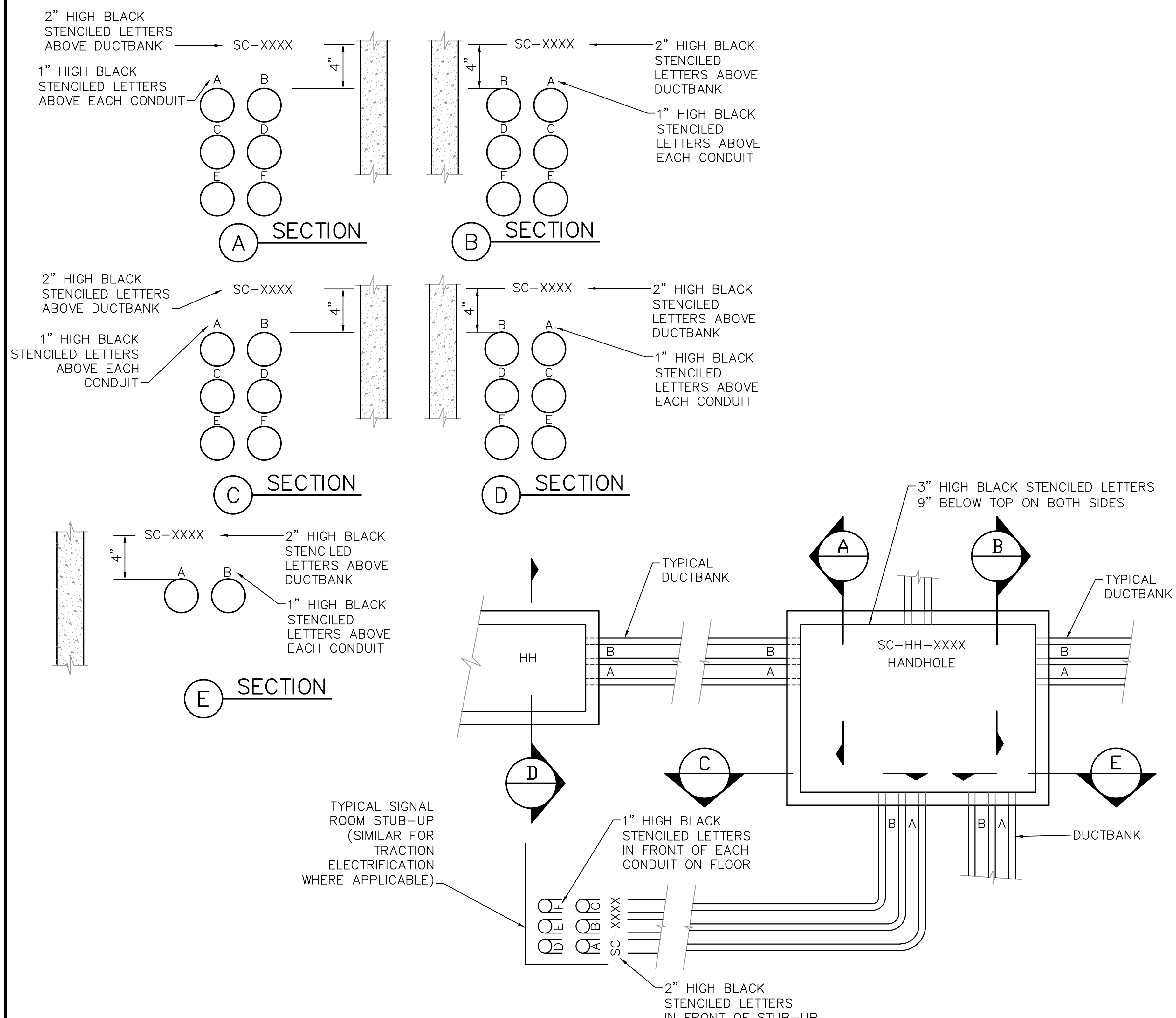

1 TYPICAL MANHOLE AND HANDHOLE CONDUIT LABELING DETAIL

SCALE: NTS (NOTE 1 & 2)

NOTES:

1. LABELING AS SHOWN IN DETAIL 1 IS TYPICAL FOR ALL SIGNAL/COMMUNICATION, TRACTION ELECTRIFICATION AND HV MANHOLES, HANDHOLES AND DUCTBANKS.
2. DUCTBANK REFERENCES SHOWN ARE EXAMPLES ONLY.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL HANDHOLE, MANHOLE AND CONDUIT LABELING

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-007

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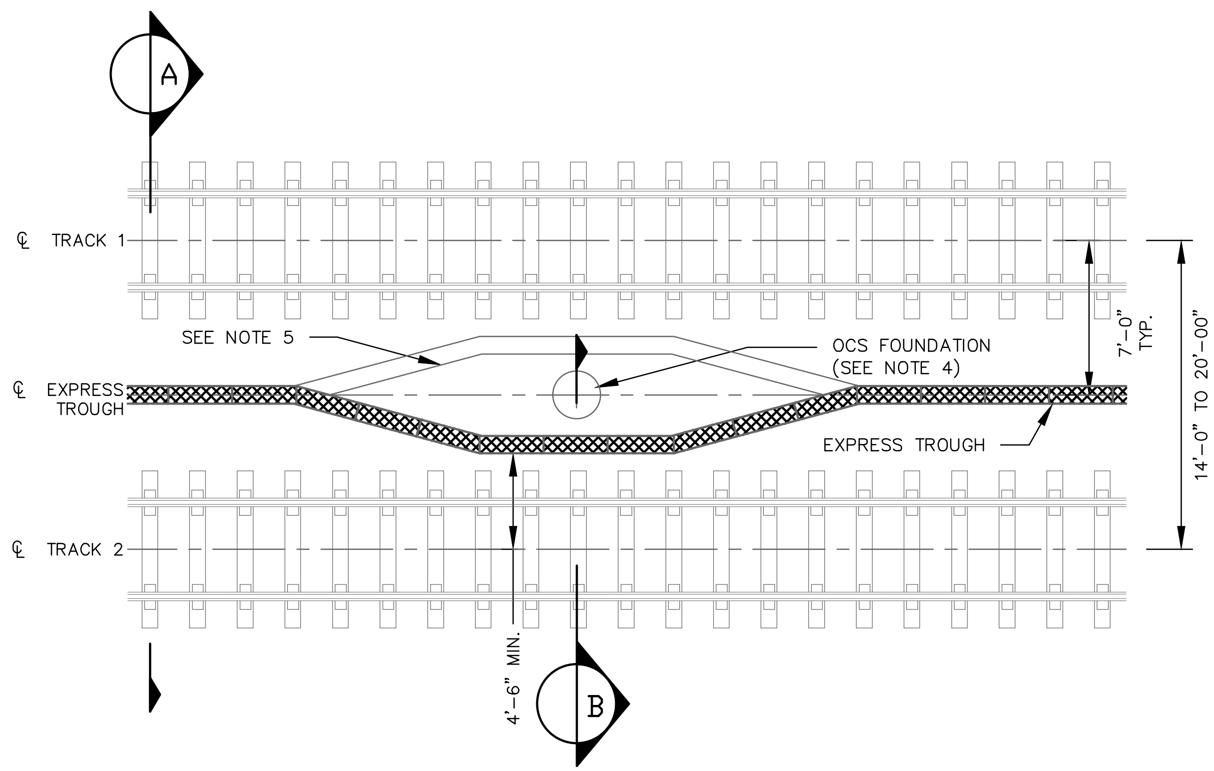
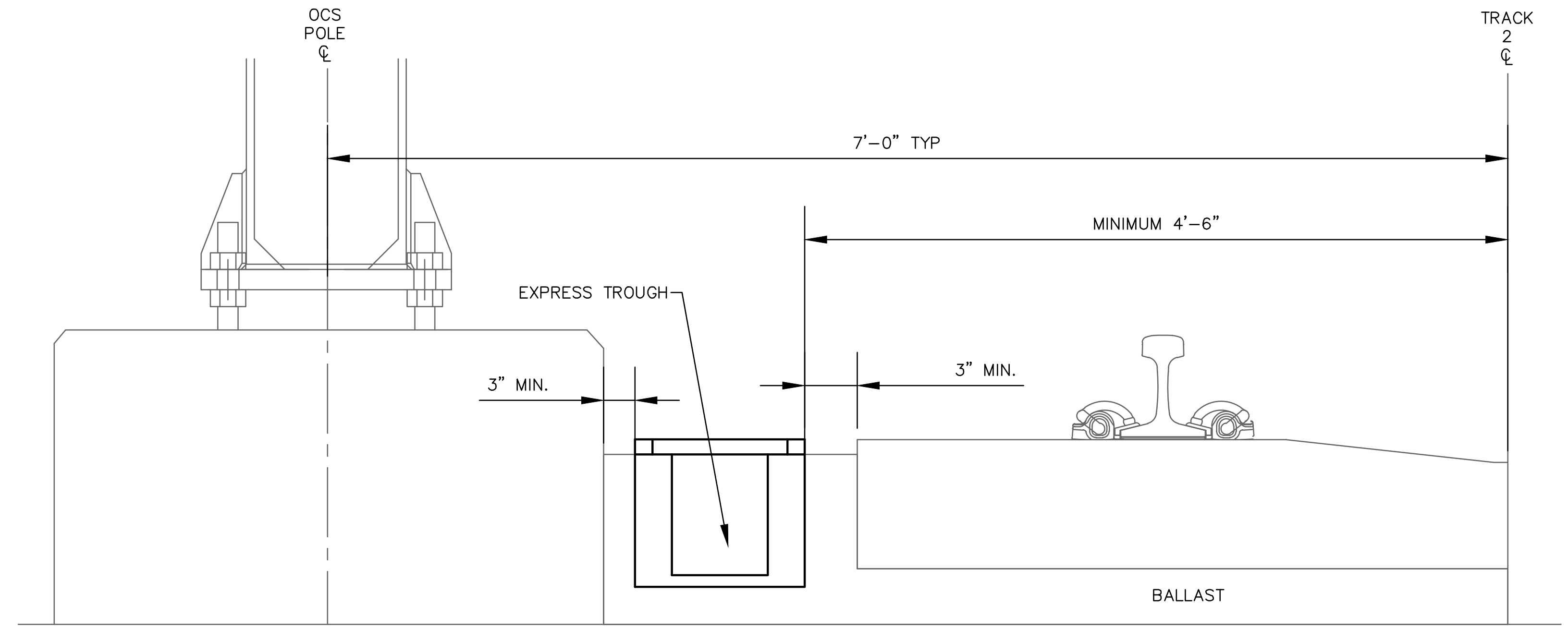
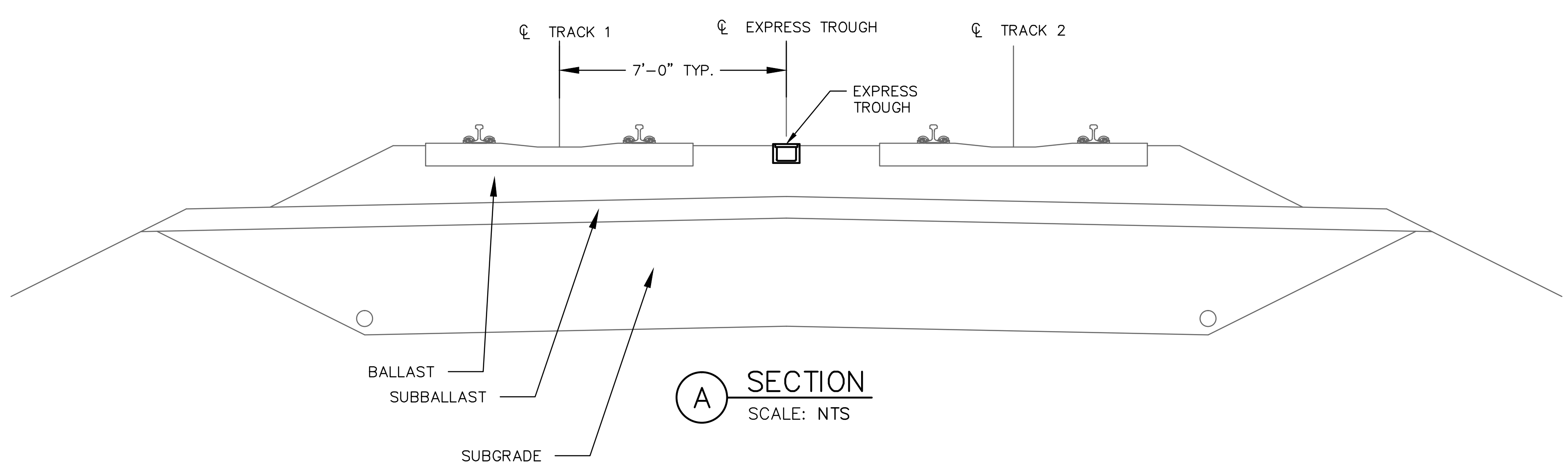


1 TYPICAL EXPRESS TROUGH LAYOUT
NTS



B TYPICAL EXPRESS TROUGH LAYOUT INSTALLATION
NTS



A SECTION
SCALE: NTS

NOTES:

1. SECURE THE TROUGH IN-PLACE, SO THERE IS NO MOVEMENT WHILE THE BALLAST IS BEING LAID AROUND THE TROUGH.
2. THE EXPRESS TROUGH SHALL BE INSTALLED 7 FEET OFF THE CENTERLINE OF THE TROUGH UNLESS NOTED OTHERWISE. AT OCS AND SIGNAL FOUNDATIONS OR OTHER STRUCTURE, OFFSET THE TROUGH SECTIONS IN EQUAL INCREMENTS TOWARD THE TRACK SO THAT THE TROUGH WILL PASS THE OCS FOUNDATION AT 4'-5" FROM THE CENTERLINE OF THE TRACK TO THE CLOSEST EDGE OF THE TROUGH. (SEE TYPICAL EXPRESS TROUGH LAYOUT INSTALLATION DETAIL 1).
3. INSTALL THE TROUGH TO INTERSECT THE MANHOLE AT A 90° ANGLE.
4. THE DISTANCE BETWEEN THE EDGE OF THE TIE AND THE OCS FOUNDATION WILL VARY DUE TO THE SIZING AND OFFSET OF THE FOUNDATION FOR THE OCS POLES.
5. BASED ON VERIFIED FIELD CONDITIONS, DETERMINE ON WHICH SIDE OF THE OCS FOUNDATION TO INSTALL EXPRESS TROUGH.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
EXPRESS TROUGH INSTALLATION SHEET 1

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-008

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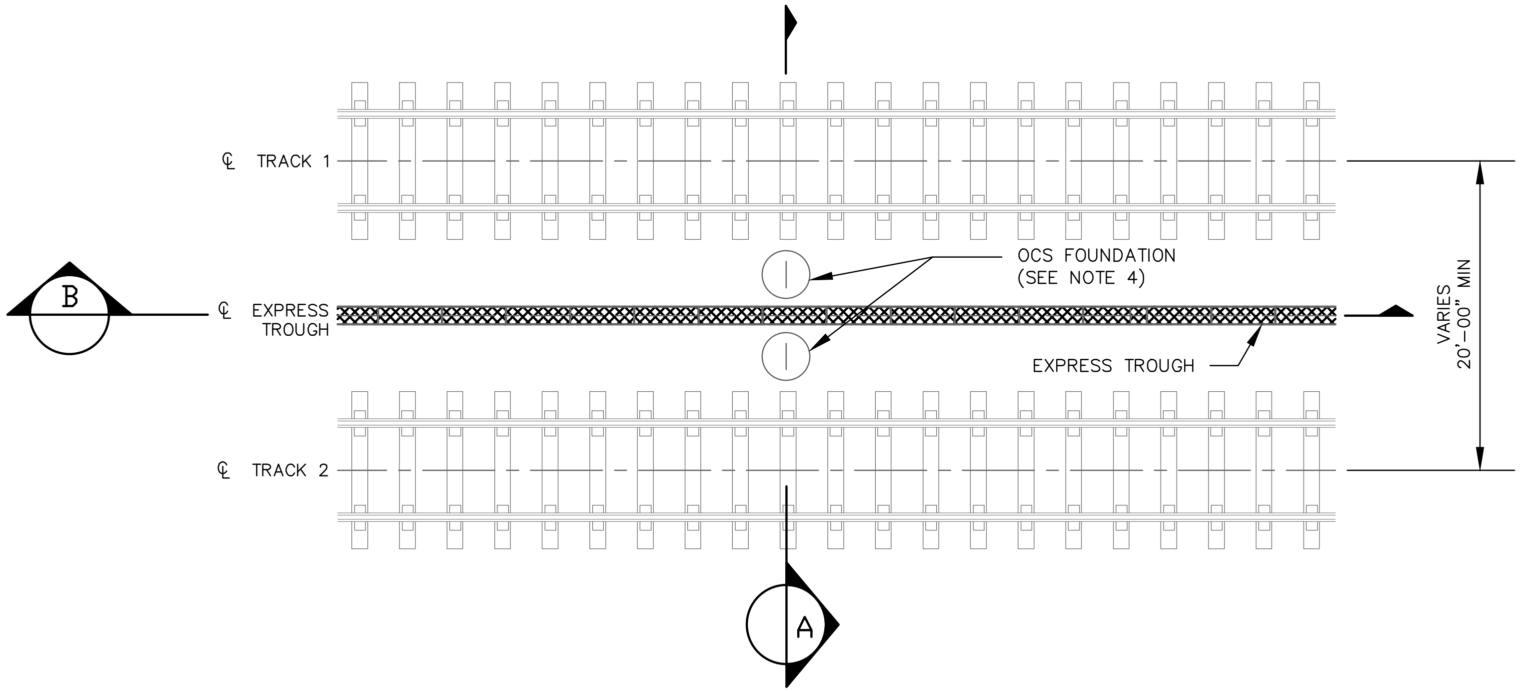
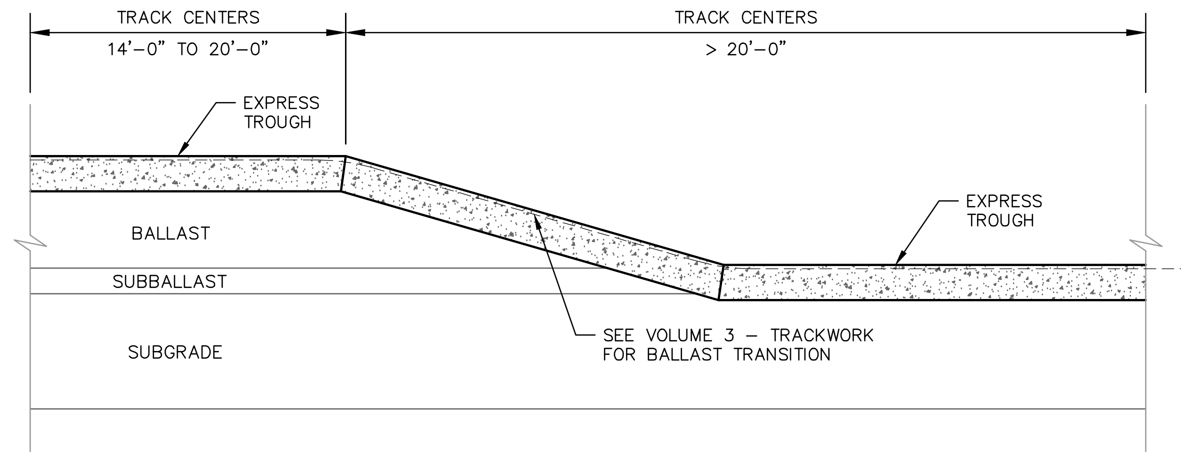
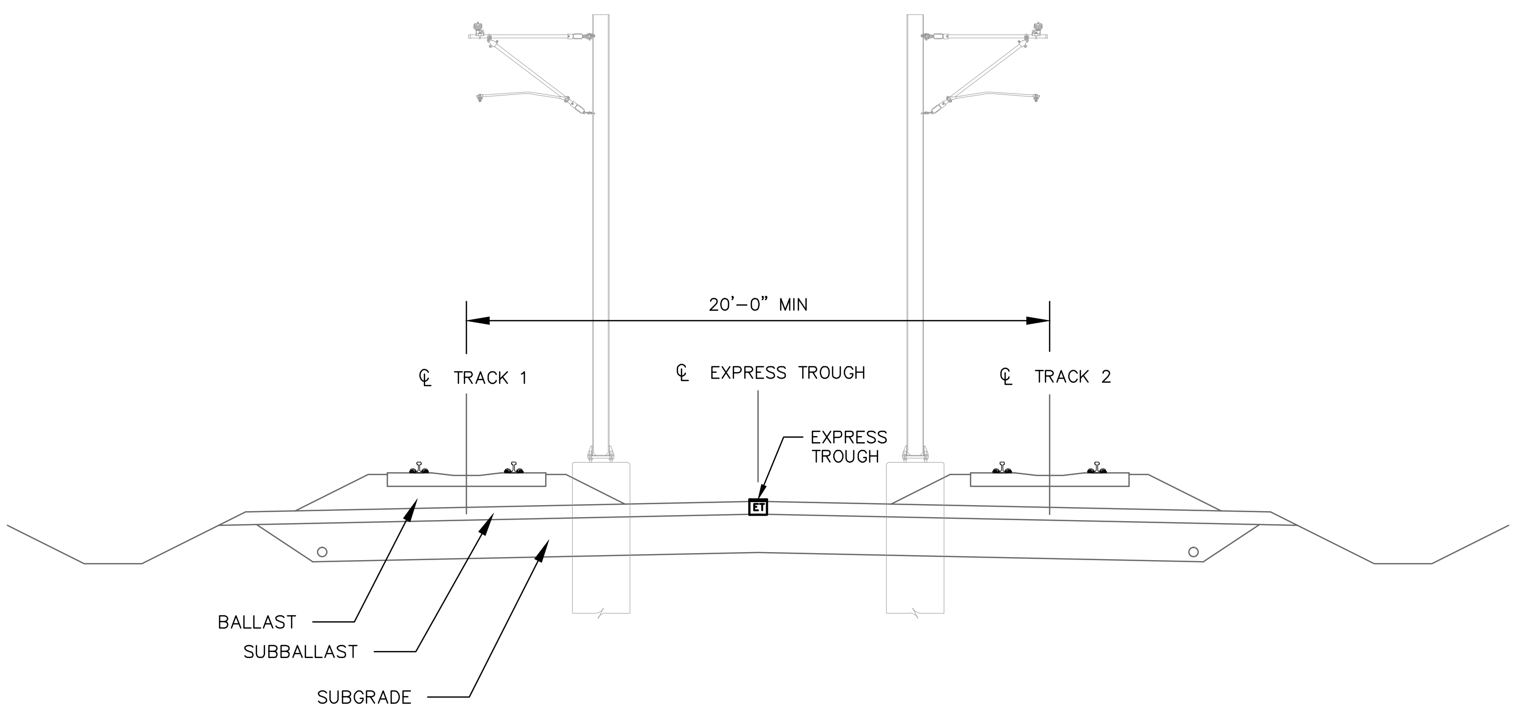


1 TYPICAL EXPRESS TROUGH LAYOUT
NTS



B LONGITUDINAL SECTION
NTS



A SECTION
SCALE: NTS

NOTES:

1. SECURE THE TROUGH IN-PLACE, SO THERE IS NO MOVEMENT WHILE THE BALLAST IS BEING LAID AROUND THE TROUGH.
2. THE EXPRESS TROUGH SHALL BE INSTALLED CENTERED BETWEEN THE TRACKS, UNLESS NOTED OTHERWISE. AT OCS AND SIGNAL FOUNDATIONS OR OTHER STRUCTURE, OFFSET THE TROUGH SECTIONS IN EQUAL INCREMENTS TOWARD THE TRACK.
3. INSTALL THE TROUGH TO INTERSECT THE MANHOLE AT A 90° ANGLE.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
EXPRESS TROUGH INSTALLATION SHEET 2

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-009

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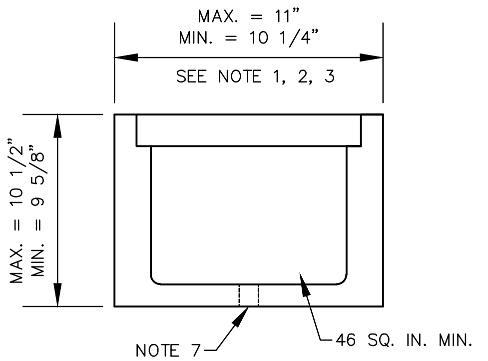
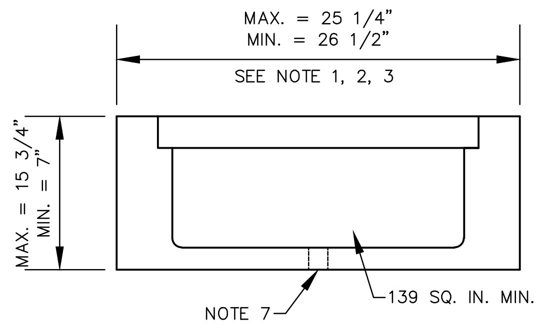
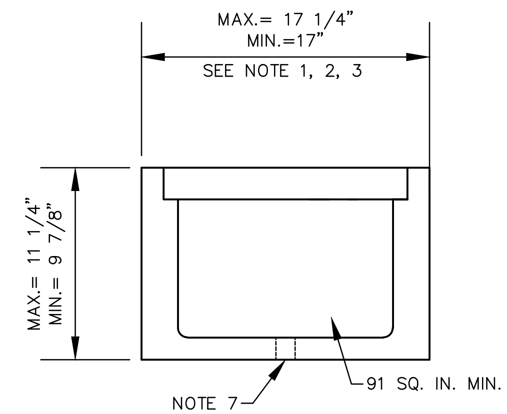


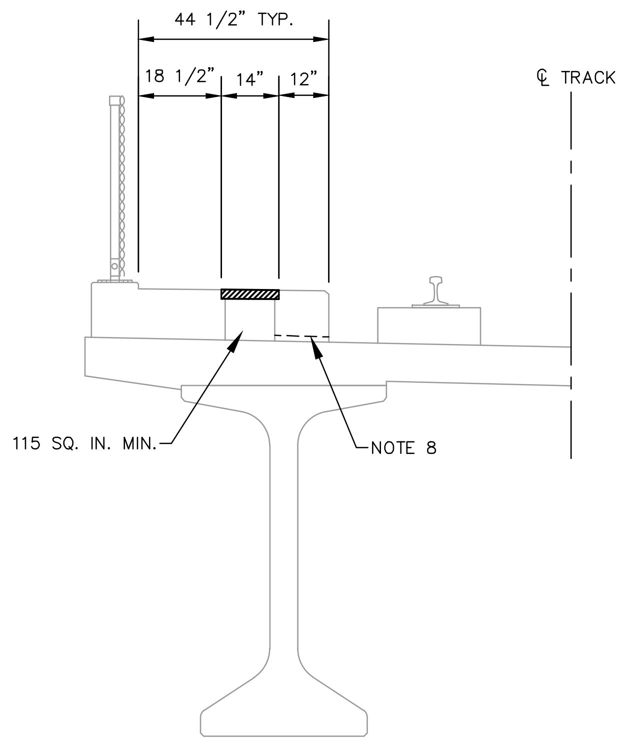
TYPE I
EXPRESS TROUGH
SCALE: NTS



TYPE II
EXPRESS TROUGH
SCALE: NTS



TYPE III
EXPRESS TROUGH
SCALE: NTS



TYPE IV
EXPRESS TROUGH ON AERIAL STRUCTURES (DF TRACK)
SCALE: NTS

NOTES:

1. SECURE THE TROUGH IN-PLACE, SO THERE IS NO MOVEMENT WHILE THE BALLAST IS BEING LAID AROUND THE TROUGH.
2. THE EXPRESS TROUGH SHALL BE INSTALLED 7 FEET OFF THE CENTERLINE OF THE TROUGH UNLESS NOTED OTHERWISE. AT OCS AND SIGNAL FOUNDATIONS OR OTHER STRUCTURE, THE CONTRACTOR SHALL OFFSET THE TROUGH SECTIONS IN EQUAL INCREMENTS TOWARD THE TRACK SO THAT THE TROUGH WILL PASS THE OCS FOUNDATION AT 4'-6" FROM THE CENTERLINE OF THE TRACK TO THE CLOSEST EDGE OF THE TROUGH. (SEE SHEET W0-SYS-SWE-DTL-008).
3. INSTALL THE TROUGH TO INTERSECT THE MANHOLE AT A 90° ANGLE.
4. THE DISTANCE BETWEEN THE EDGE OF THE TIE AND THE OCS FOUNDATION WILL VARY DUE TO THE SIZING AND OFFSET OF THE FOUNDATION FOR THE OCS POLES.
5. BASED ON VERIFIED FIELD CONDITIONS, DETERMINE ON WHICH SIDE OF THE OCS FOUNDATION TO INSTALL EXPRESS TROUGH.
6. WHERE EXPRESS TROUGH IS USED AS EGRESS WALKWAY, WALKING SURFACE WITH INSTALLED COVER SHALL COMPLY WITH NFPA 101 SECTION 7.1.6
7. PROVIDE MINIMUM OF THREE 2" DIAMETER DRAINAGE HOLES IN THE BOTTOM FOR EVERY 5' SECTION.
8. SEE VOLUME 4 – BRIDGES, FOR DRAINAGE DETAILS.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
EXPRESS TROUGH SECTIONS

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-010

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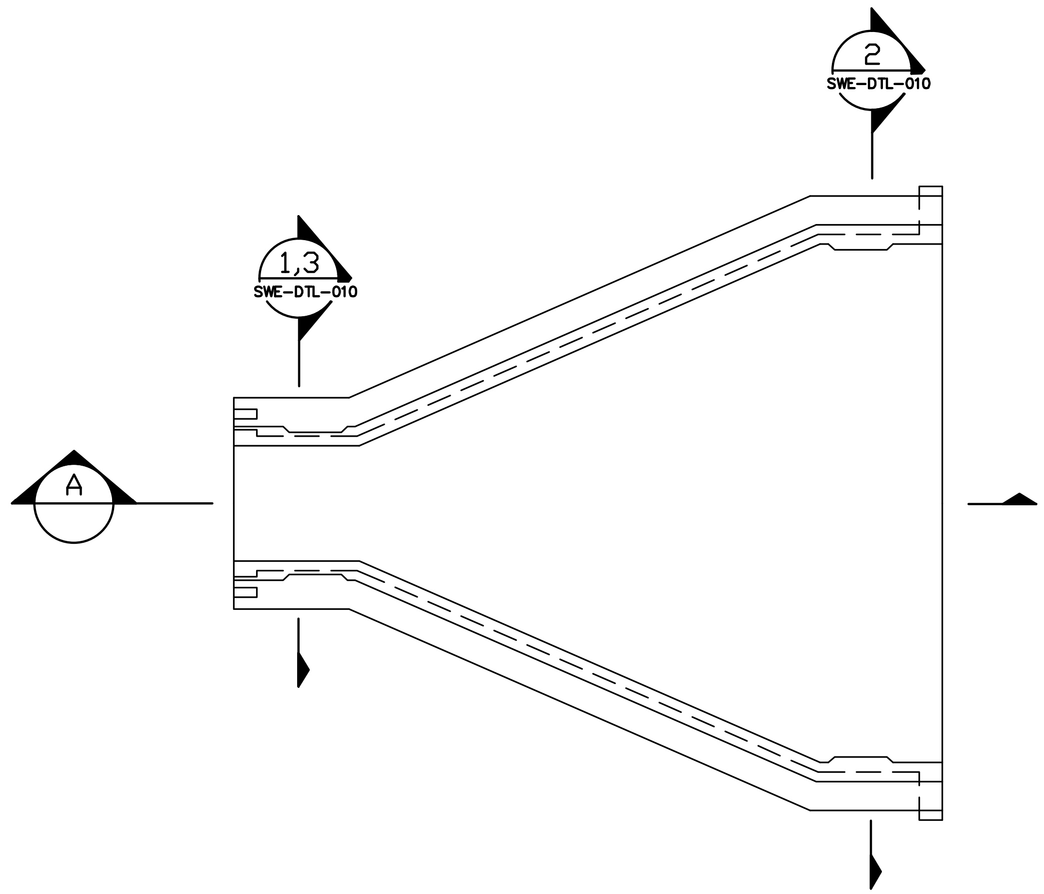
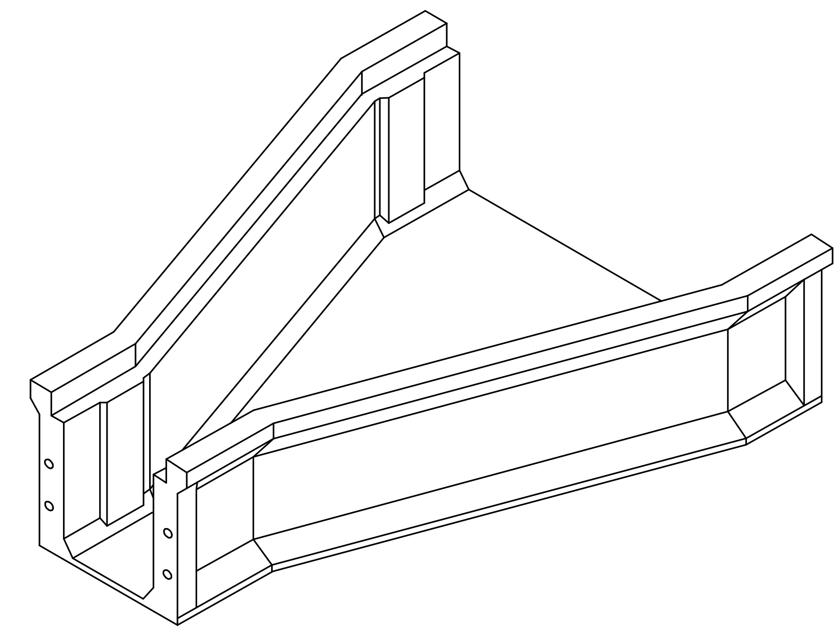
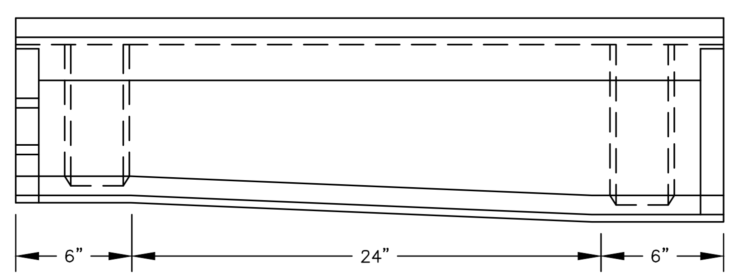


1 TYPICAL EXPRESS TROUGH TRANSITION BOX PLAN
SCALE: NTS



2 TYPICAL EXPRESS TROUGH TRANSITION BOX
SCALE: NTS

NOTES:
1. EXACT DIMENSION TO BE PROVIDED BY MANUFACTURER.



A SECTION
SCALE: NTS

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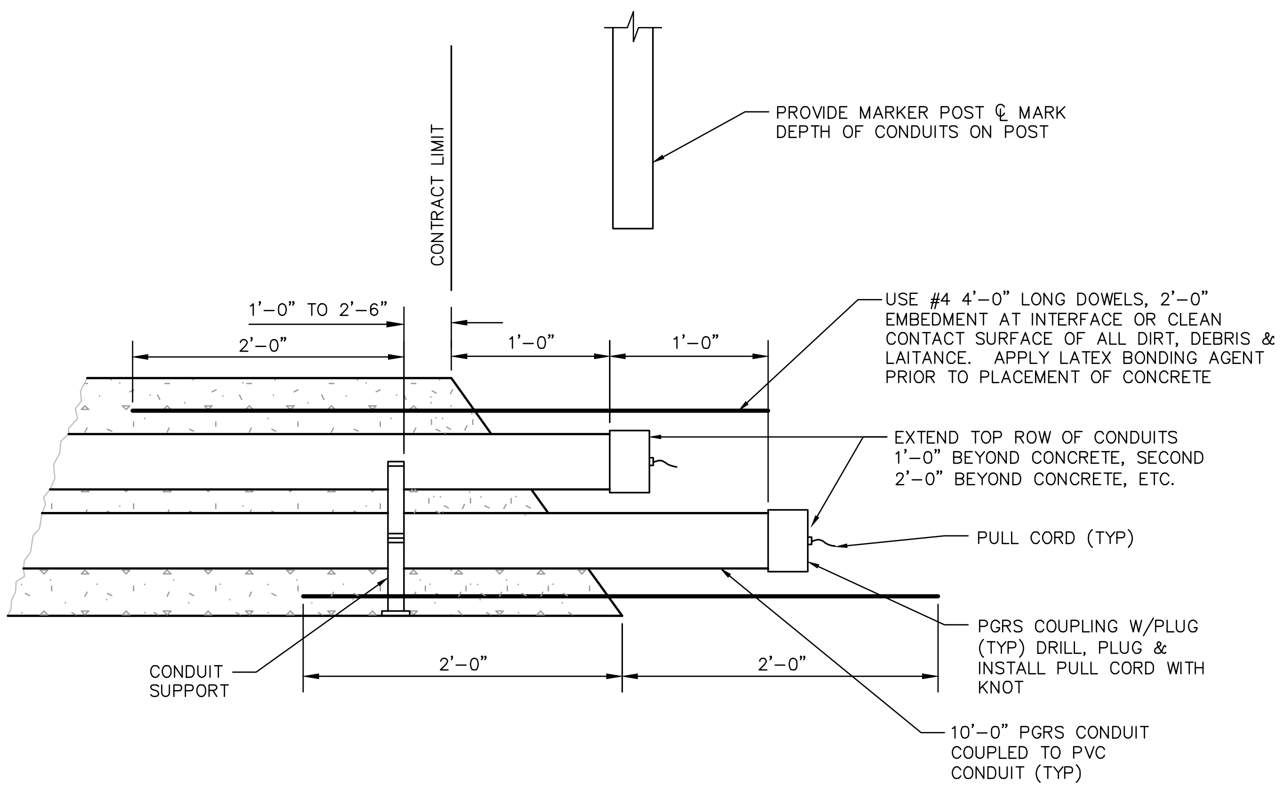
SOUTHWEST Green Line LRT Extension

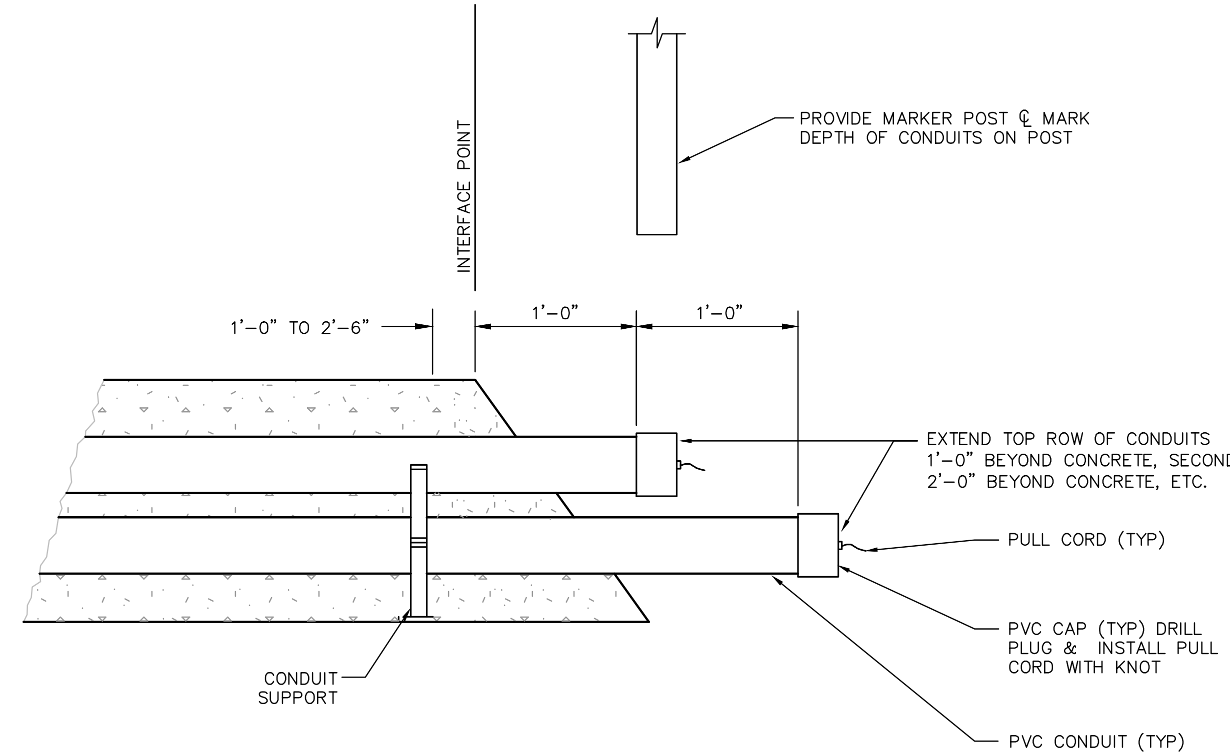
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
EXPRESS TROUGH TRANSITION BOX

DISCIPLINE: SYSTEMS

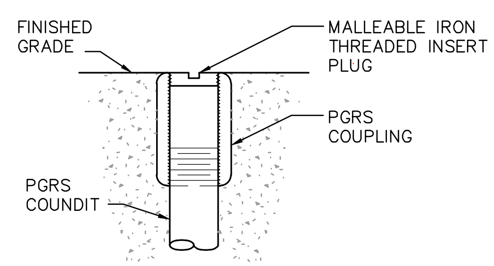
SHEET NAME: W0-SYS-SWE-DTL-011



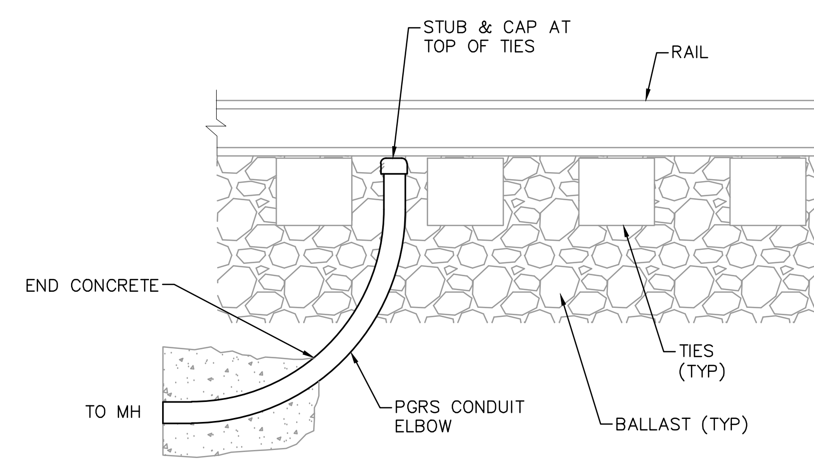
1 TYPICAL DUCTBANK CONDUIT STUB–OUT AT CONTRACT LIMIT
SCALE: NTS



2 CONDUIT STUB–OUT AT INTERFACE
SCALE: NTS



3 FLUSH CONDUIT STUB–UP
SCALE: NTS



4 BALLAST CONDUIT STUB–UP
SCALE: NTS

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
CONDUIT STUB-OUT AND STUB-UP

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-012

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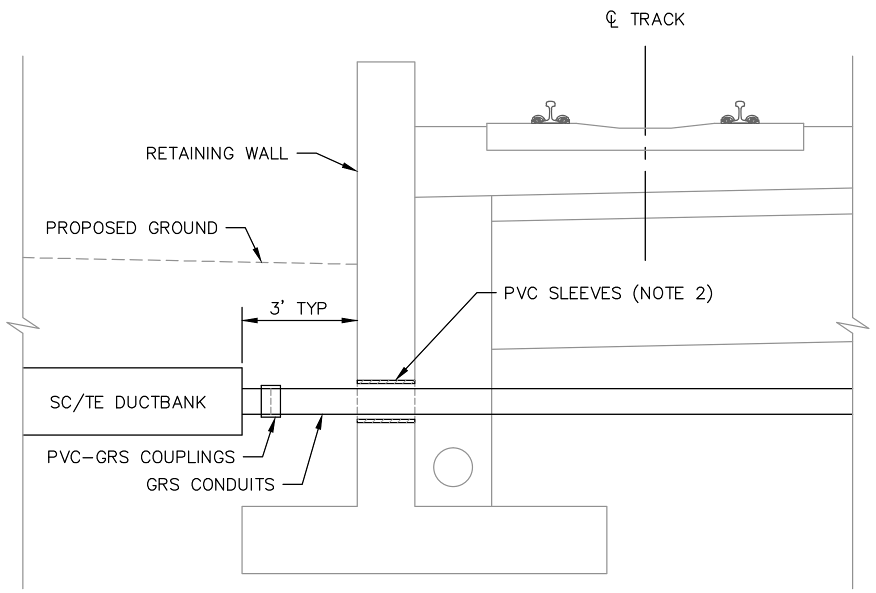
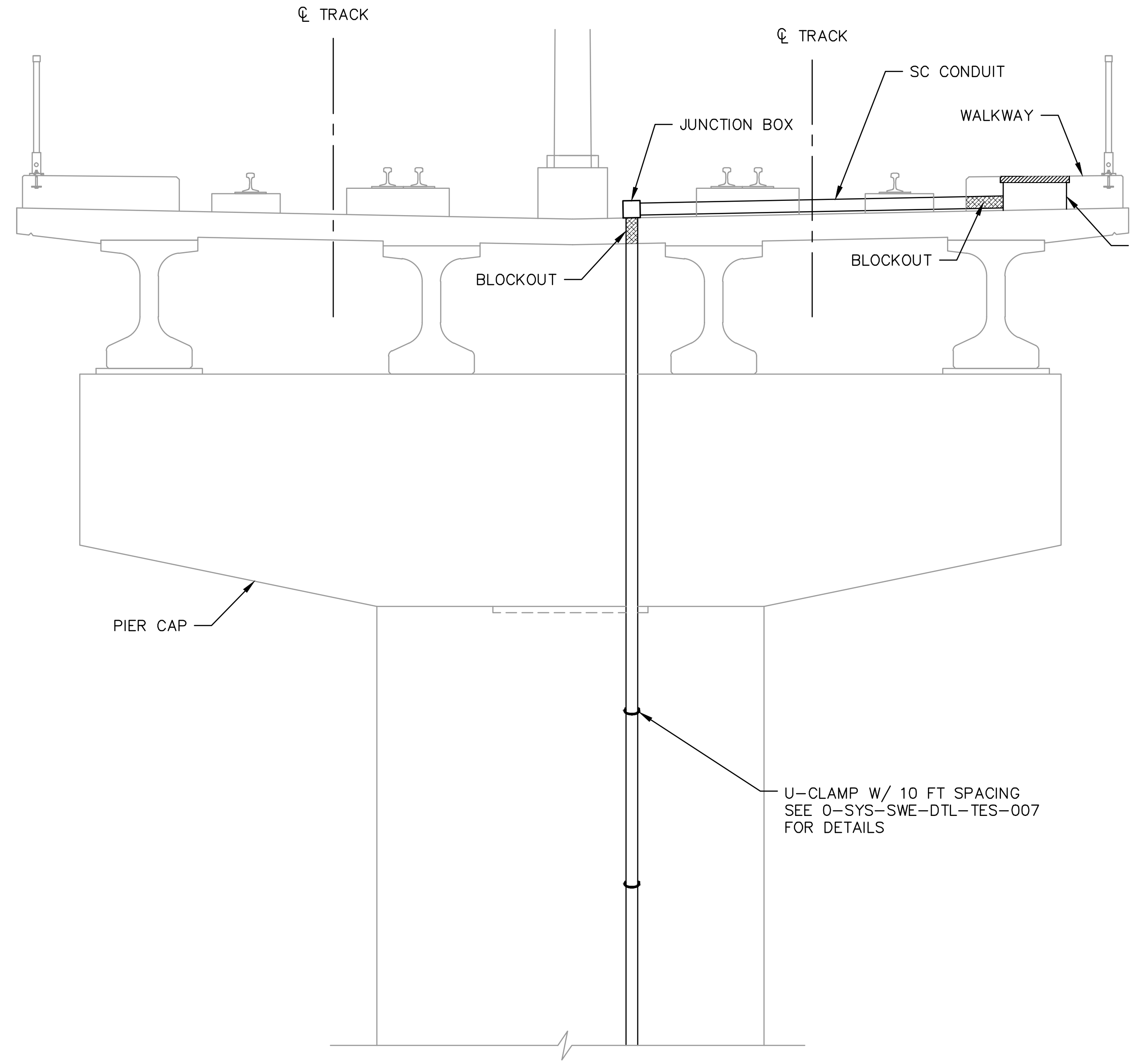


1 RETAINING WALL PENETRATION
NTS



2 BRIDGE CONDUIT PENETRATION
NTS

NOTES:

1. SEE VOLUME 4 – BRIDGES DRAWINGS FOR DECKING & WALKWAY REINFORCEMENT DETAILS AND LAYOUT.
2. SEE VOLUME 6 – RETAINING WALLS FOR SLEEVE DETAIL.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

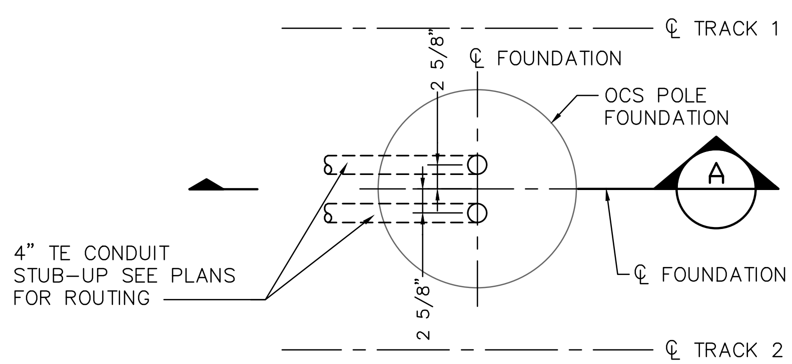
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DETAILS
CONDUIT PENETRATION

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-013

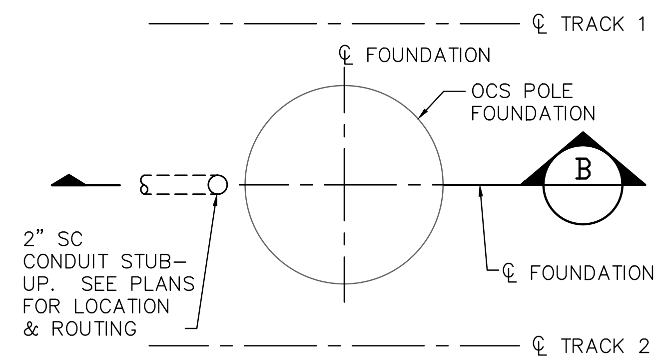
NOTES:

1. FOR OCS POLE FOUNDATION INFORMATION SEE FOUNDATION DETAILS AND SCHEDULES.



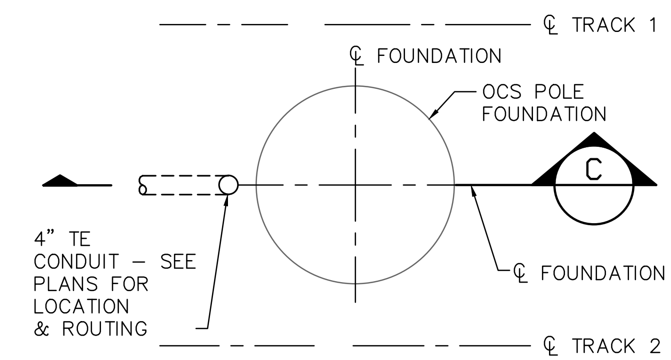
1 OCS FEEDER POLE PLAN (DOUBLE CONDUIT)

SCALE: NTS



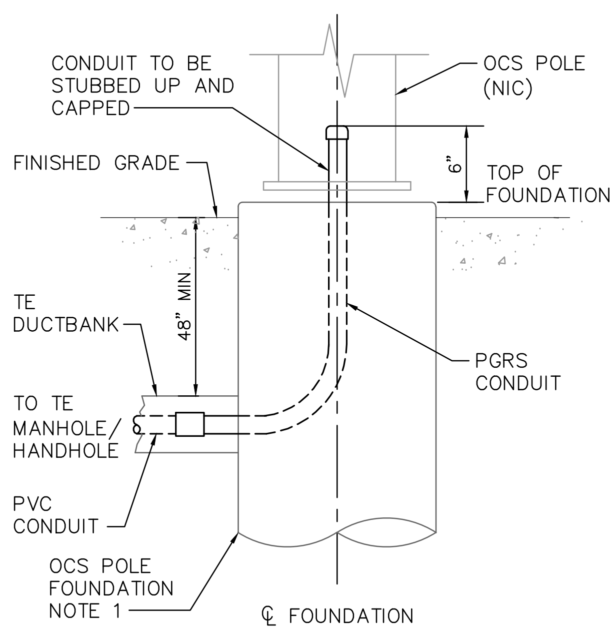
2 CCTV PLAN (SINGLE CONDUIT)

SCALE: NTS



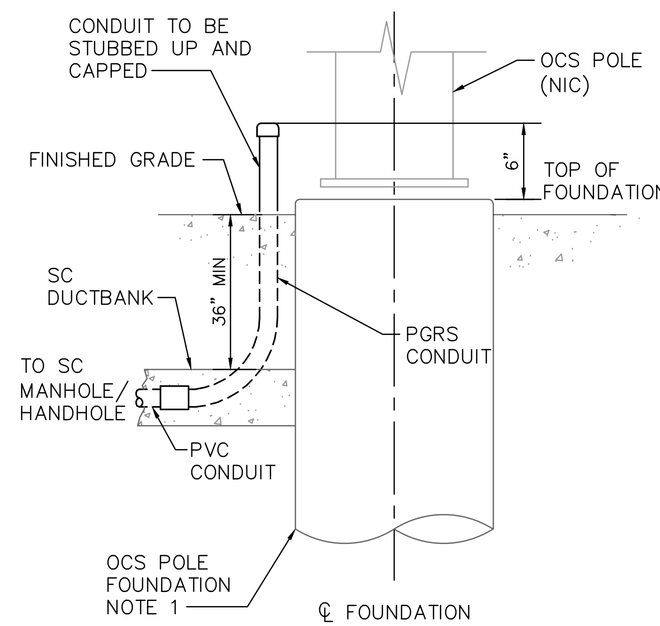
3 SWITCH HEATER CABINET TE FEEDER PLAN (SINGLE CONDUIT)

SCALE: NTS



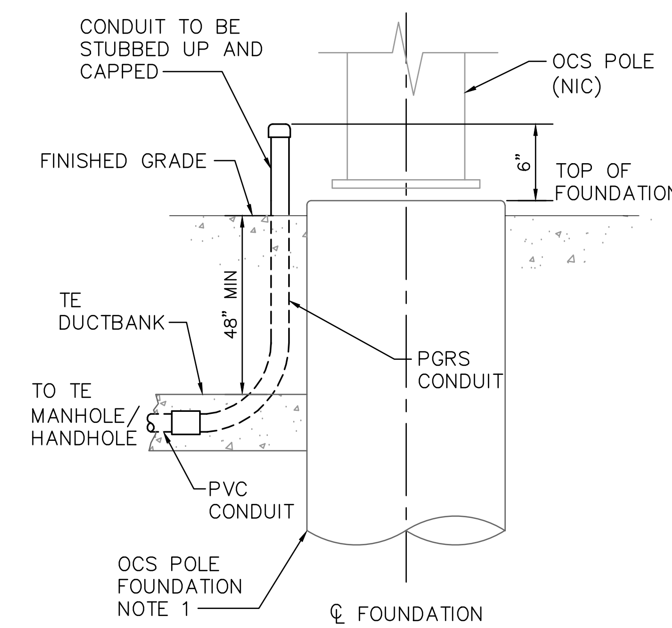
A SECTION

SCALE: NTS



B SECTION

SCALE: NTS



C SECTION

SCALE: NTS

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL CONDUIT INSTALLATION
OCS POLE FOUNDATIONS

DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-014

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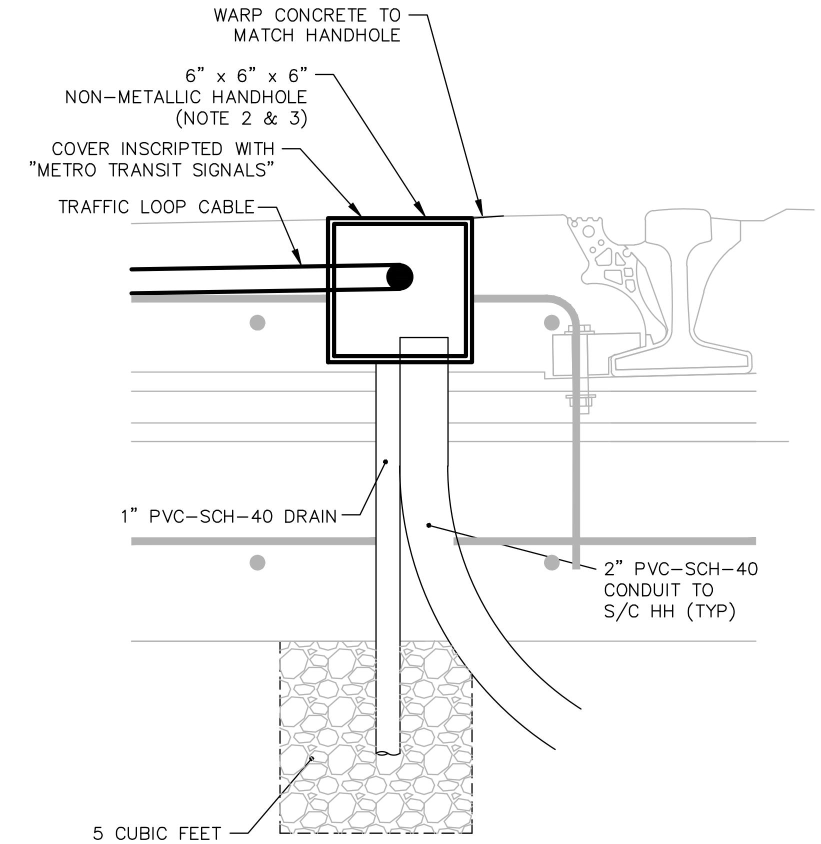
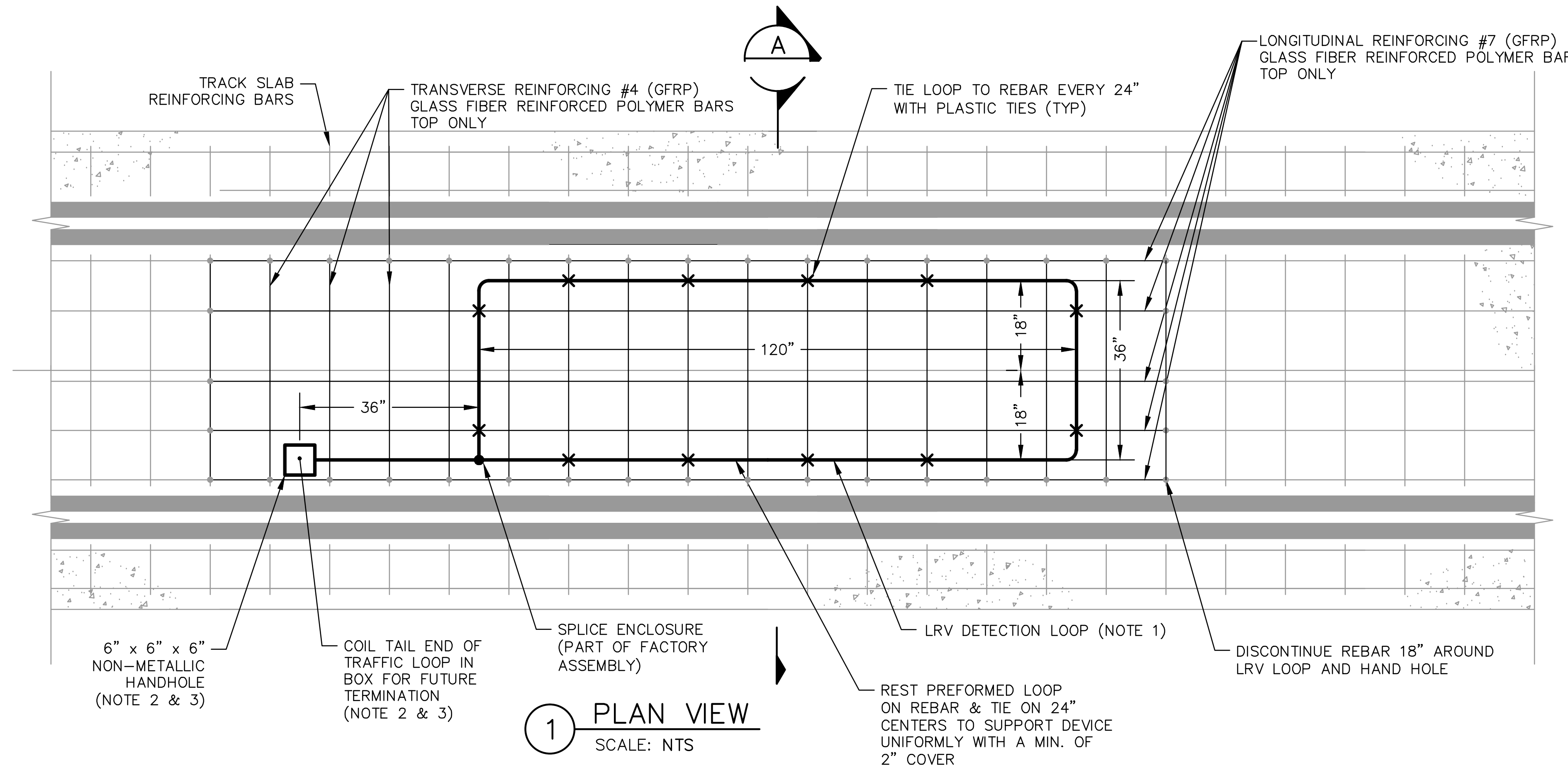


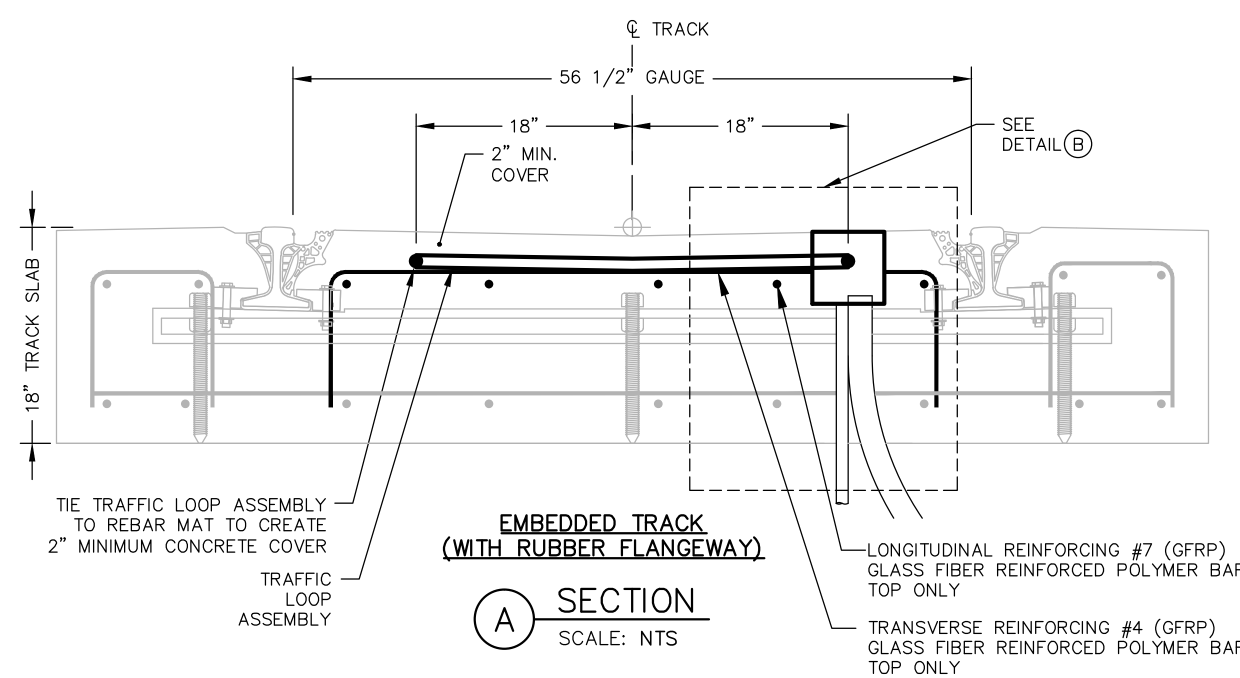
B DETAIL
SCALE: NTS



1 PLAN VIEW
SCALE: NTS

NOTES:

1. LRV DETECTION LOOP IS MADE BY RENO TRAFFIC CORP. THE DEVICE IS A FACTORY MADE LOOP #RR-418. NO LIKE, EQUIVALENT OR "OR-EQUAL" ITEM IS PERMITTED
2. PLACE HANDHOLE ON THE SIDE OF TRACK SLAB FOR COORDINATION WITH THE NEAREST SWE HH LOCATION
3. NO GROUNDING OR TERMINALS REQUIRED



EMBEDDED TRACK
(WITH RUBBER FLANGEWAY)

A SECTION
SCALE: NTS

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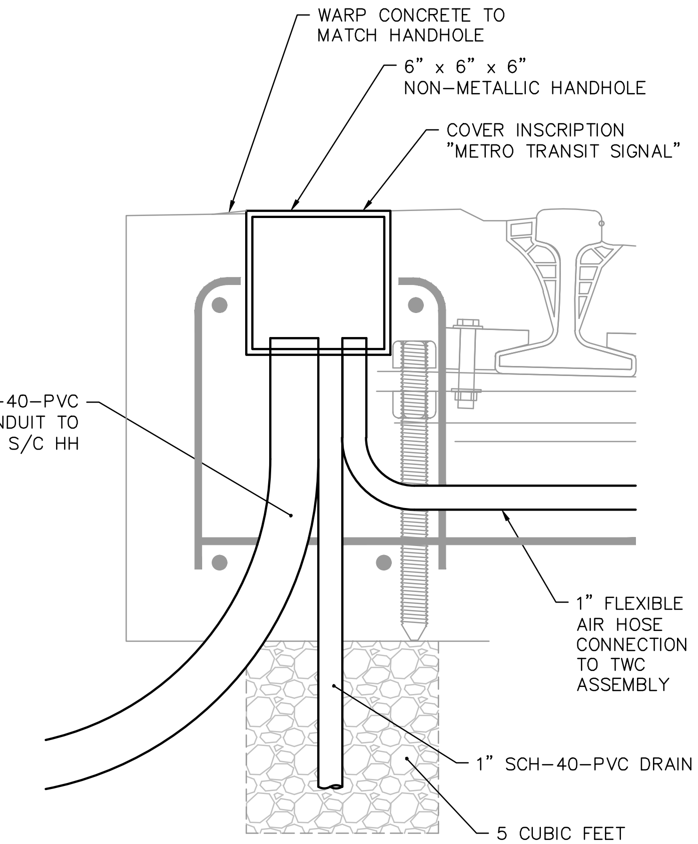
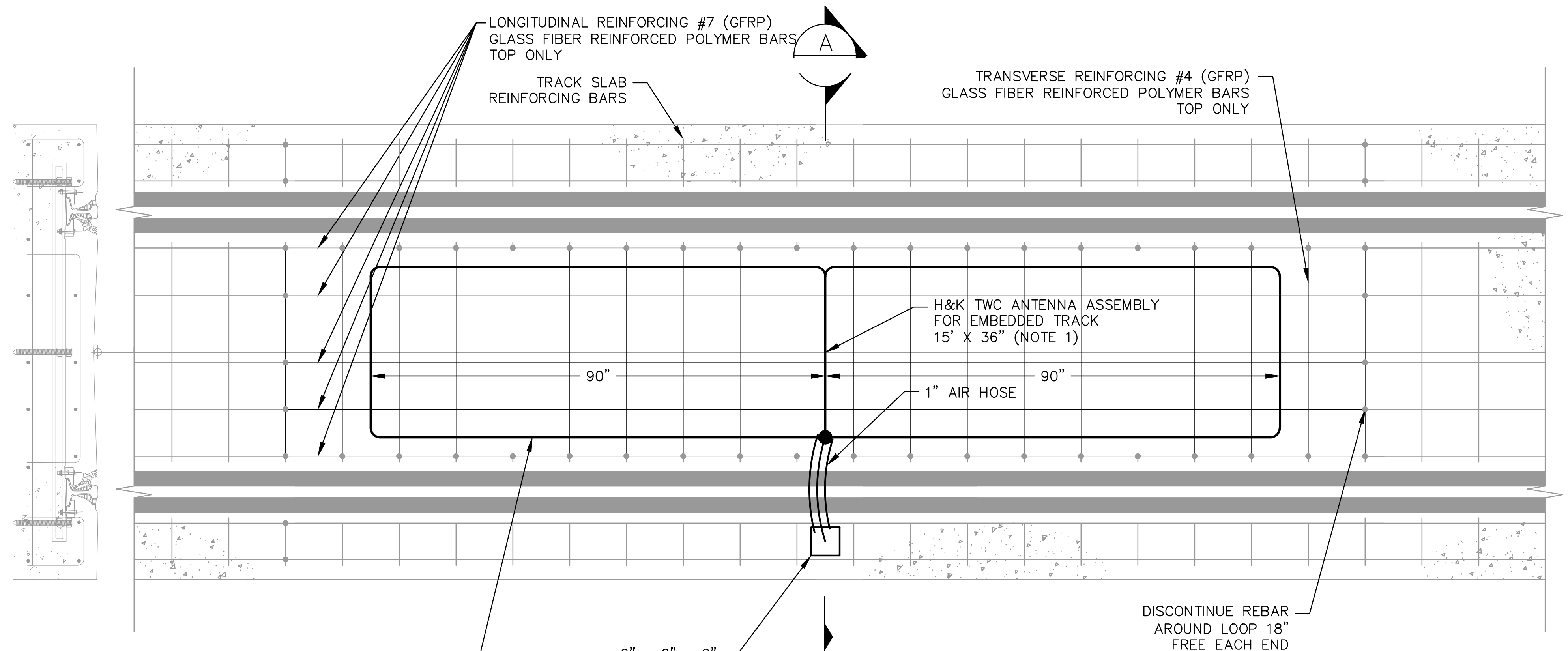
WSP PARSONS BRINCKERHOFF
90% SUBMISSION - 01/22/2016
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LRV TRAFFIC DETECTION LOOP
EMBEDDED TRACK INSTALLATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-001
SHEET 349 OF 464



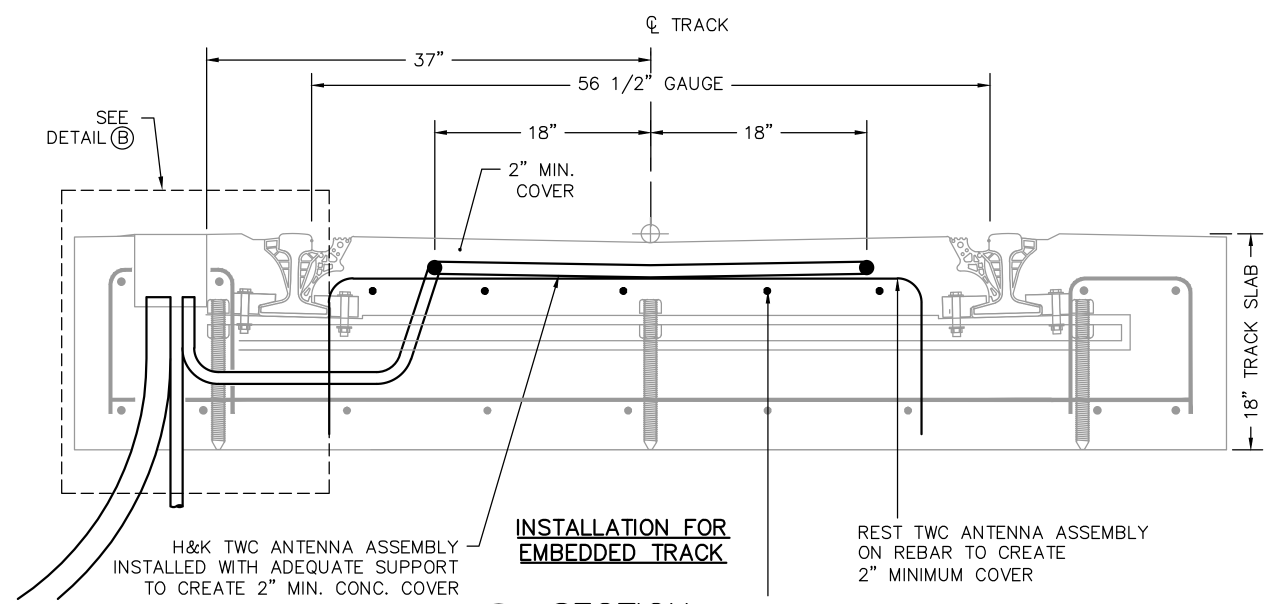
B DETAIL
SCALE: NTS



1 PLAN VIEW
SCALE: NTS

NOTES:

1. FACTORY MADE LOOP IS AN H & K P/N 4.930.013. THIS DEVICE MAY REQUIRE ADDITIONAL SUPPORT TO HOLD SHAPE AND POSITION DURING CONCRETE INSTALLATION
2. PLACE HANDHOLE PULL BOX ON THE FIELD SIDE OF TRACK SLAB FOR COORDINATION WITH THE NEAREST SWE HH LOCATION
3. HANDHOLE IS LOCATED AS A PULL BOX AND A LOCATION FOR TWC TUNING MODULE. NO GROUNDING OR TERMINALS ARE REQUIRED



INSTALLATION FOR EMBEDDED TRACK

A SECTION
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

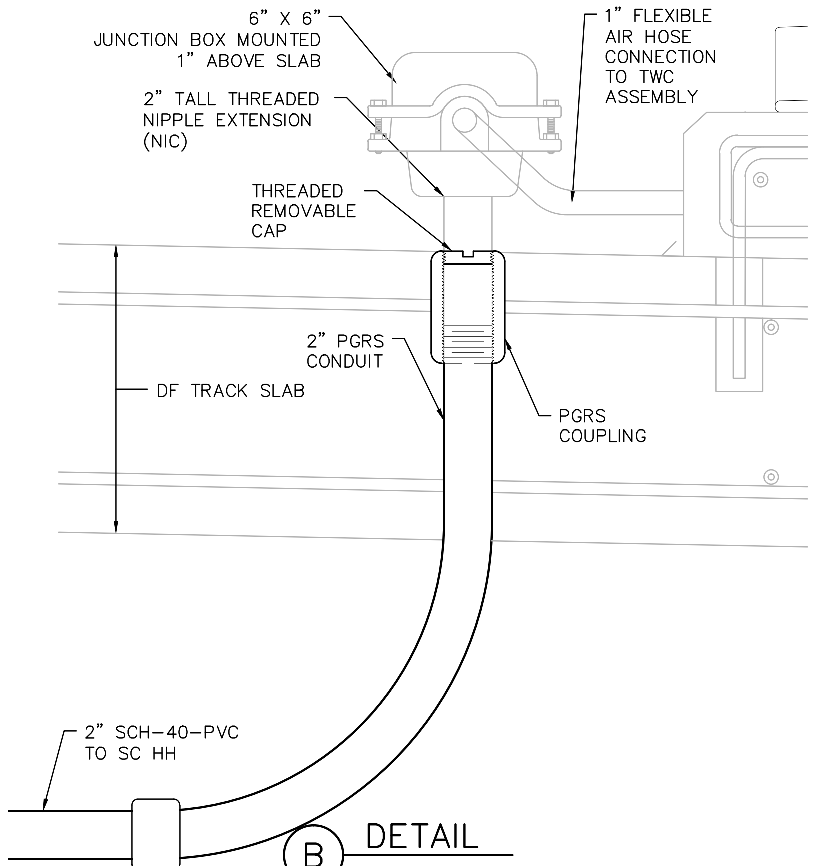
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TWC ANTENNA
EMBEDDED TRACK INSTALLATION

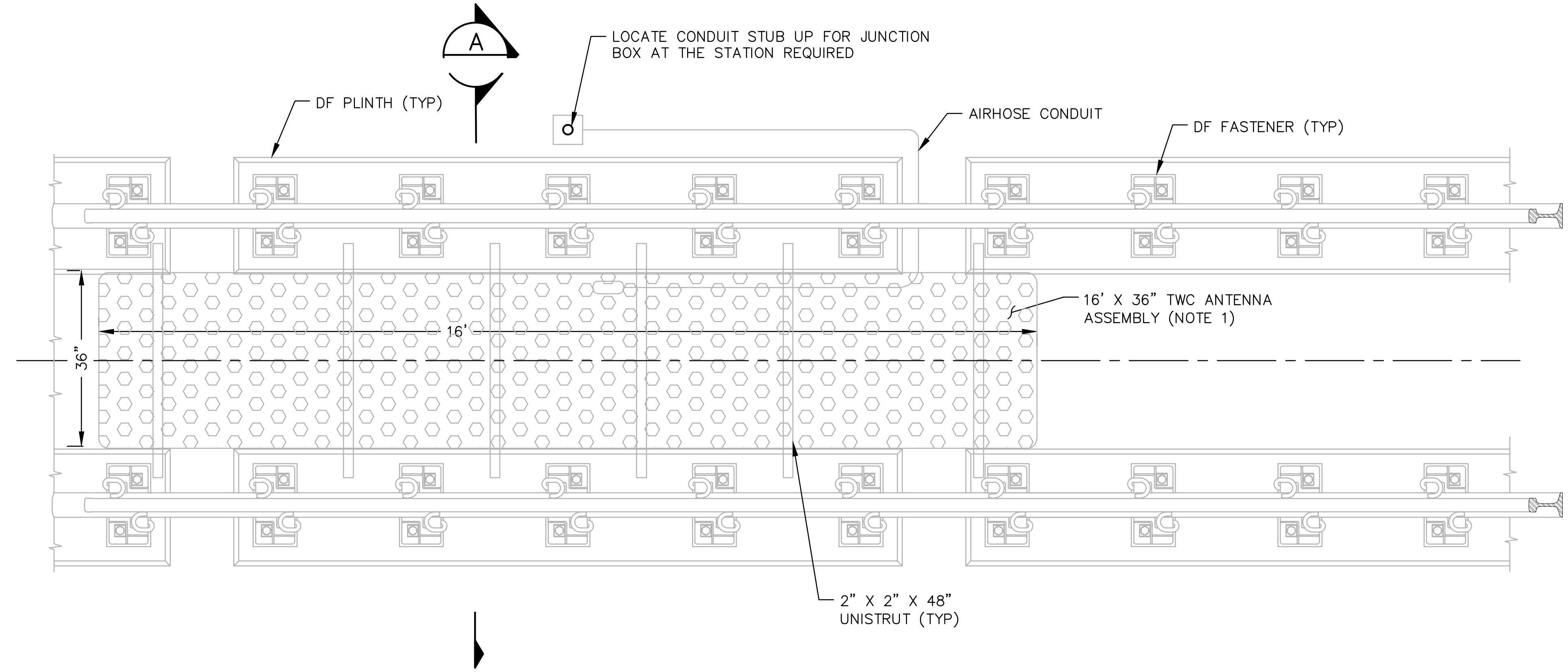
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-002

SHEET 350 OF 464

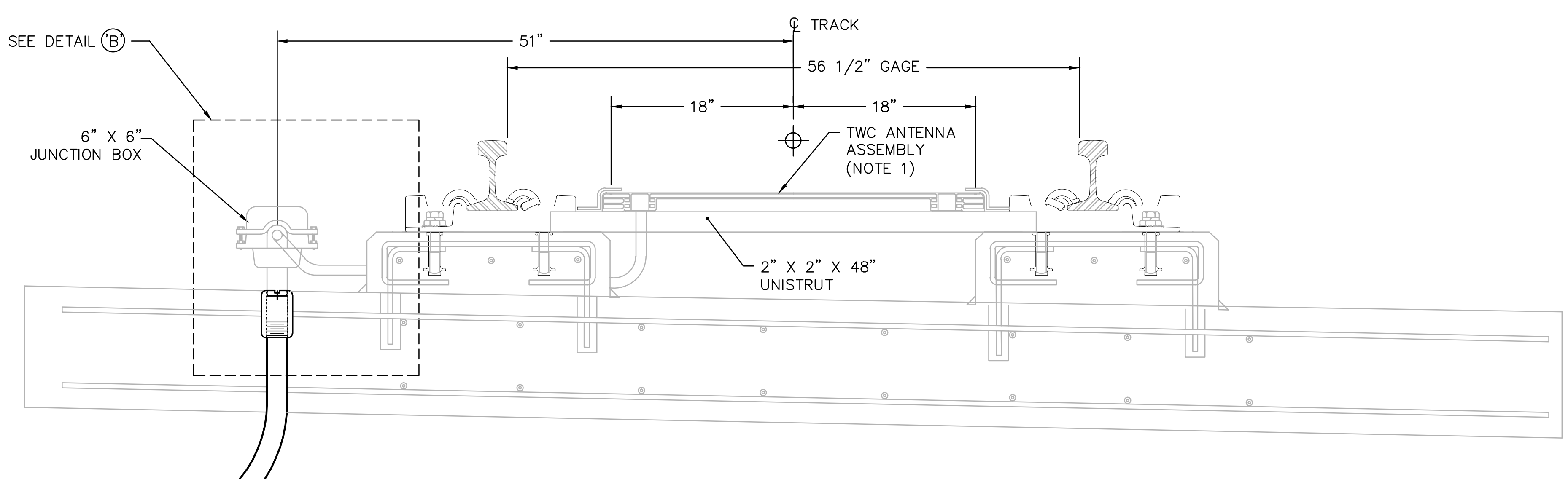
Jan, 15 2016 11:07 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-002.dwg By: woodsaj



B DETAIL
SCALE: NTS



1 PLAN
SCALE: NTS



A SECTION
SCALE: NTS

NOTES:

1. FOR DIRECT FIXATION TRACK, TWC DEVICES ARE SHOWN FOR REFERENCE ONLY. ONLY TWC CONDUIT STUB UP IS INCLUDED IN THIS CONTRACT.
2. PLACE TWC STUB-UP ON THE FIELD SIDE OF TRACK FOR COORDINATION WITH THE NEAREST SWE HH LOCATION
3. JUNCTION BOX IS LOCATED AS A PULL BOX AND A LOCATION FOR TWC TUNING MODULE. NO GROUNDING OR TERMINALS ARE REQUIRED

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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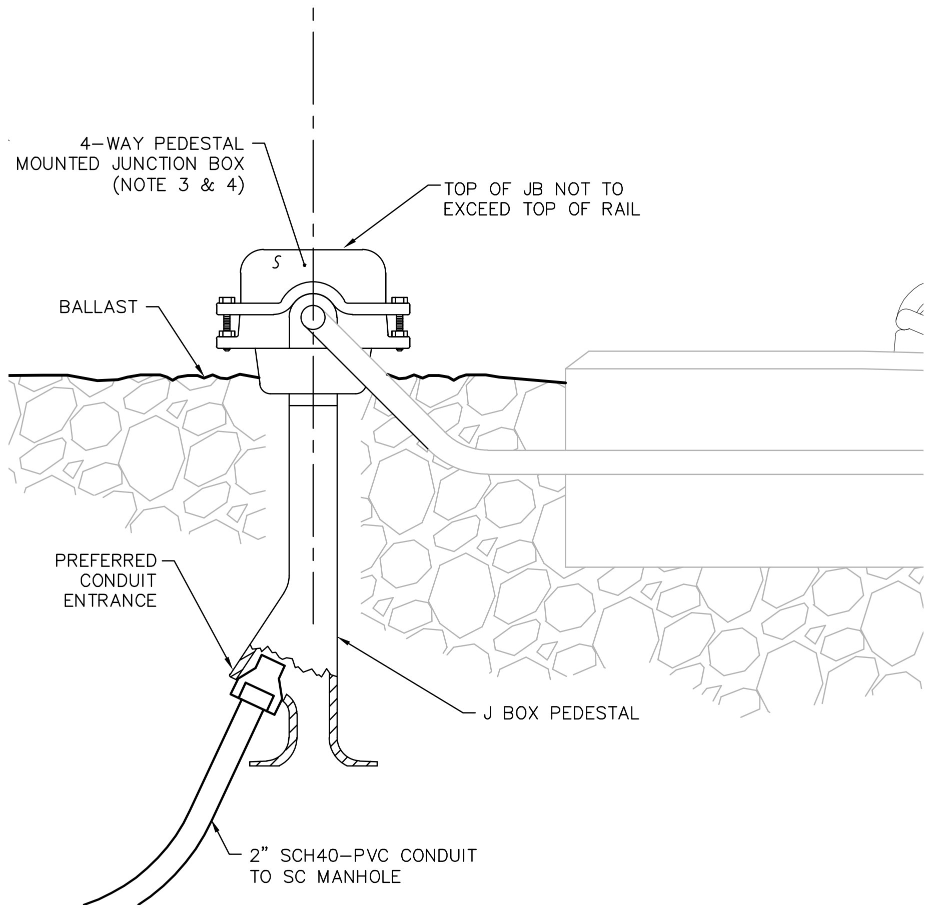
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TWC ANTENNA
DIRECT FIXATION TRACK INSTALLATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-003

SHEET 351 OF 464



B DETAIL
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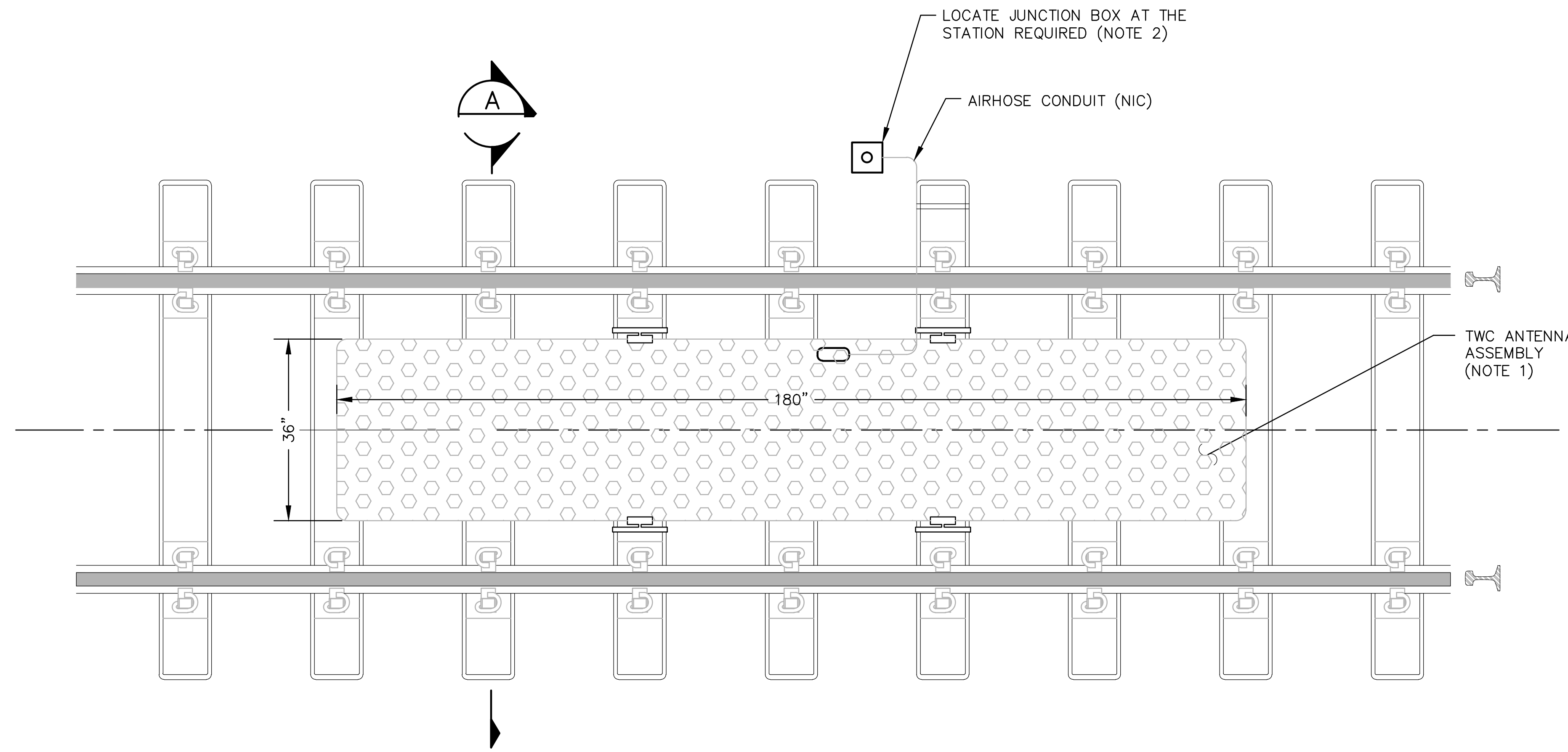
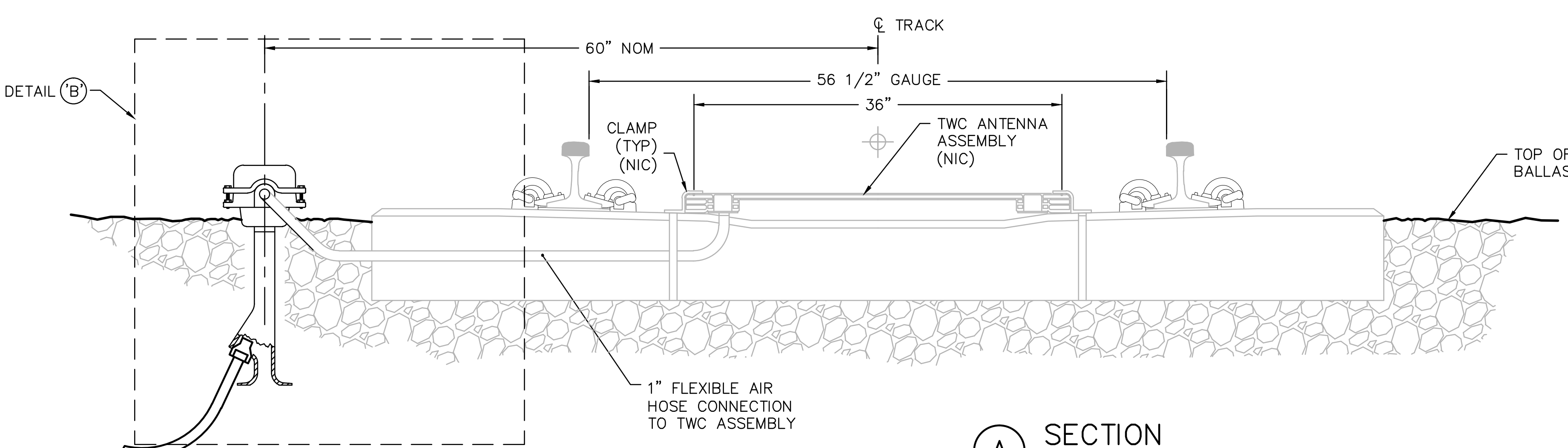


1 PLAN
SCALE: NTS



A SECTION
SCALE: NTS

NOTES:

1. FOR BALLASTED TRACK, ALL TWC DEVICES ARE SHOWN FOR REFERENCE ONLY. ONLY CONDUIT & JUNCTION BOX ARE INCLUDED IN THIS CONTRACT
2. PLACE JUNCTION BOX ON THE FIELD SIDE OF TRACK FOR COORDINATION WITH THE NEAREST SC HH LOCATION
3. JUNCTION BOX IS LOCATED AS A PULL BOX AND A LOCATION FOR TWC TUNING MODULE. NO GROUNDING OR TERMINALS ARE REQUIRED
4. JUNCTION BOX SHALL BE WCH MODEL 1155 OR APPROVED EQUAL. JUNCTION BOX SHALL BE EQUIPPED WITH ONE OUTLET FOR 1" DIAMETER AIR HOSE.

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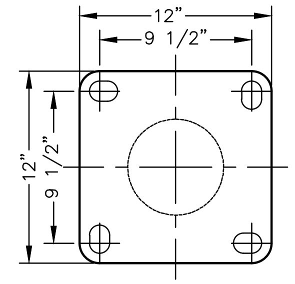
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/2016

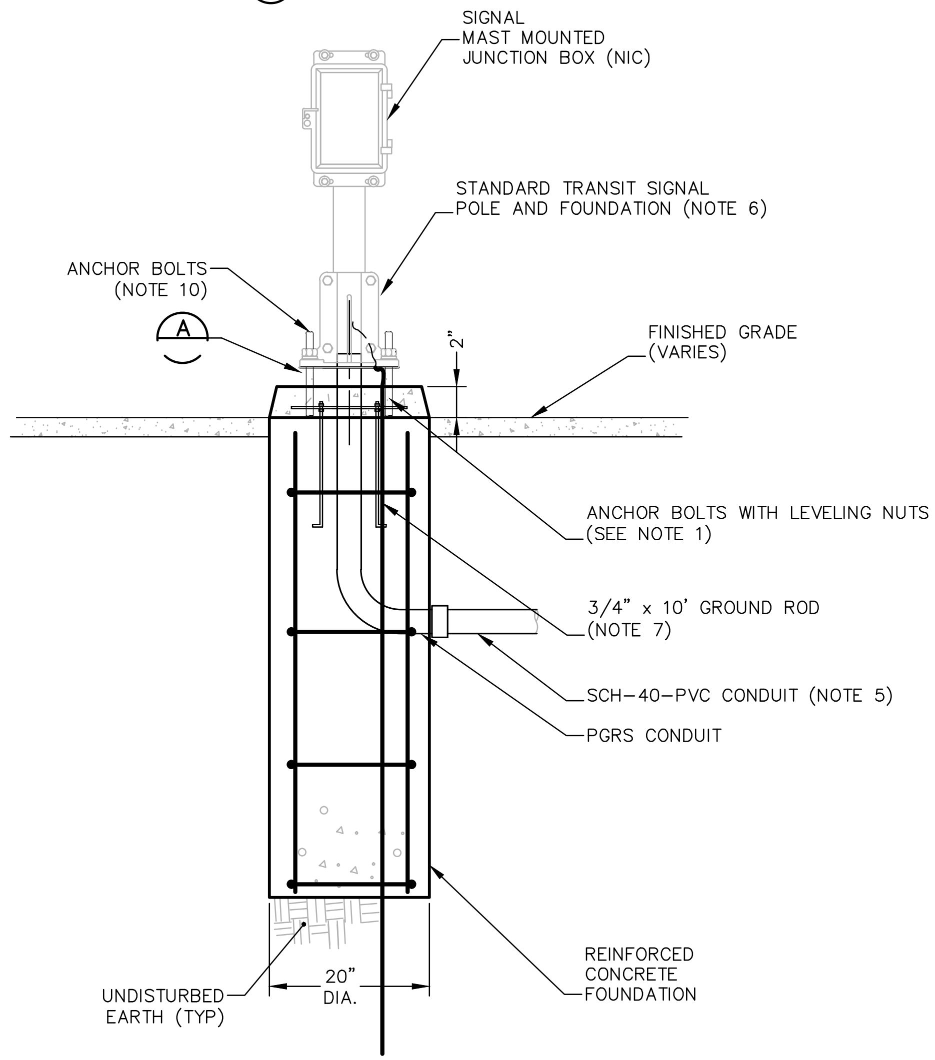
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TWC ANTENNA
BALLASTED TRACK INSTALLATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-004

Jan. 15 2016 11:08 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-004.dwg By: woodsaj



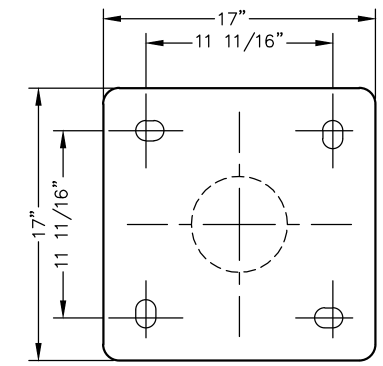
BOLT PATTERN FOR 4" SIGNAL MAST BASE
(A) NTS



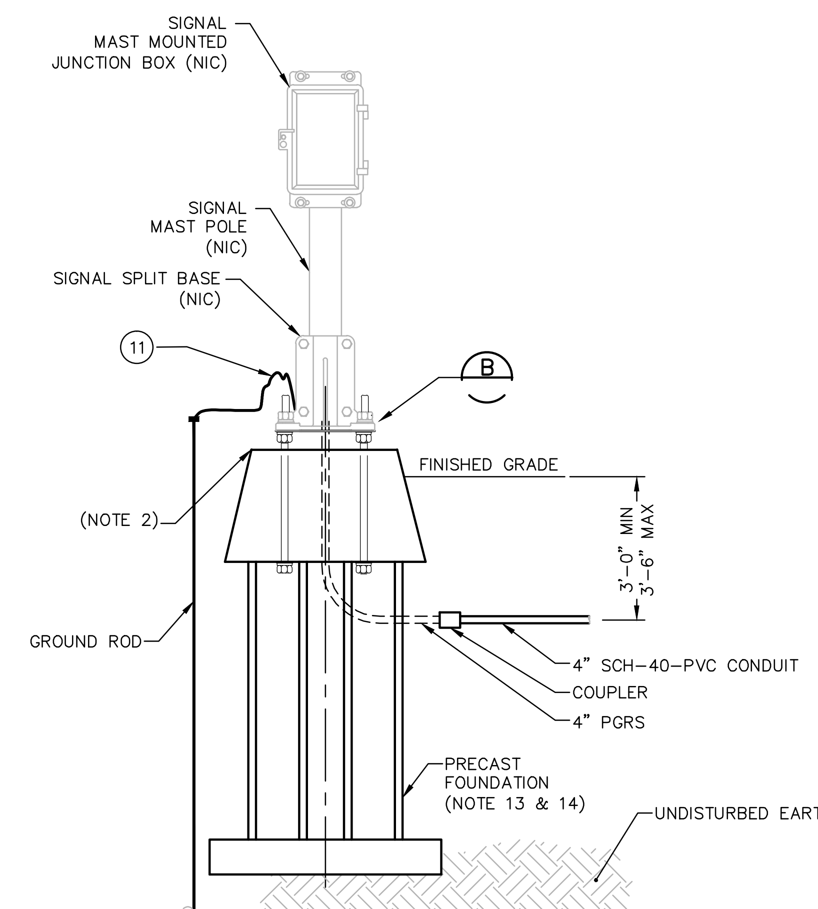
TYPICAL "CAST IN PLACE" SIGNAL FOUNDATION 4" MASTS FOR TRANSIT STYLE SIGNALS
(1) NTS

NOTES:

1. THE ANCHOR BOLTS, PLATE ASSEMBLIES, NUTS AND WASHERS REQUIRED FOR INSTALLATION OF THE DEVICE SHALL BE PROVIDED.
2. ASSURE THAT REINFORCING STEEL IS ALL INTERCONNECTED VIA TIE WRAPPING OR OTHER SUITABLE MEANS AND CONNECTED TO THE ANCHOR BOLTS.
3. THE UPPER PART OF THE FOUNDATION SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER.
4. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION (UNTIL CABLES ARE INSTALLED).
5. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE FOUNDATION WHERE DIRECTED BY APPROVED DRAWINGS, AND SHALL NOT INTERFERE WITH THE JUNCTION BOX, CABLE PULLING OR OTHER DEVICE FUNCTIONS.
6. STANDARD 4" TRANSIT SIGNAL POLE, SPLIT BASE, WITH MAST MOUNTED JUNCTION BOX (NIC). CONDUIT SHALL PROJECT INTO BOTTOM OF 4" SIGNAL MAST.
7. POSITION GROUND ROD WITHIN FOUNDATION TO AVOID CONFLICT WITH STANDARD SIGNAL BASE.
8. TRANSIT SIGNALS TO BE MIN. 76" FROM ℄ OF TANGENT TRACK, UNLESS NOTED OTHERWISE.
9. CONTRACTOR SHALL PROVIDE DETAILED FOUNDATION DESIGN BY A MN LICENSED ENGINEER BASED ON LOAD AND SOIL CONDITIONS. DESIGN AND CALCULATIONS TO BE SUBMITTED FOR APPROVAL.
10. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE SIGNAL FUNCTIONS (SUPPORTING MEMBERS, ETC.)
11. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ OF TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ OF TRACK. (NIC)
12. SEE PLANS AND SCHEDULES FOR CONDUIT SIZES.
13. CONTRACTOR SHALL DEMONSTRATE THAT THE FOUNDATION WILL BE COMPLIANT WITH AREMA & WILL BE STRUCTURALLY ADEQUATE FOR EACH INSTALLATION
14. CONTRACTORS GEOTECHNICAL CONSULTANT SHALL VERIFY THAT SOIL CONDITIONS ARE ADEQUATE FOR THE SIGNAL FOUNDATION DESIGN



BOLT PATTERN FOR 5" SIGNAL MAST BASE
(B) NTS



SIGNAL MAST POLE INSTALLATION ON PRECAST FOUNDATION
(2) NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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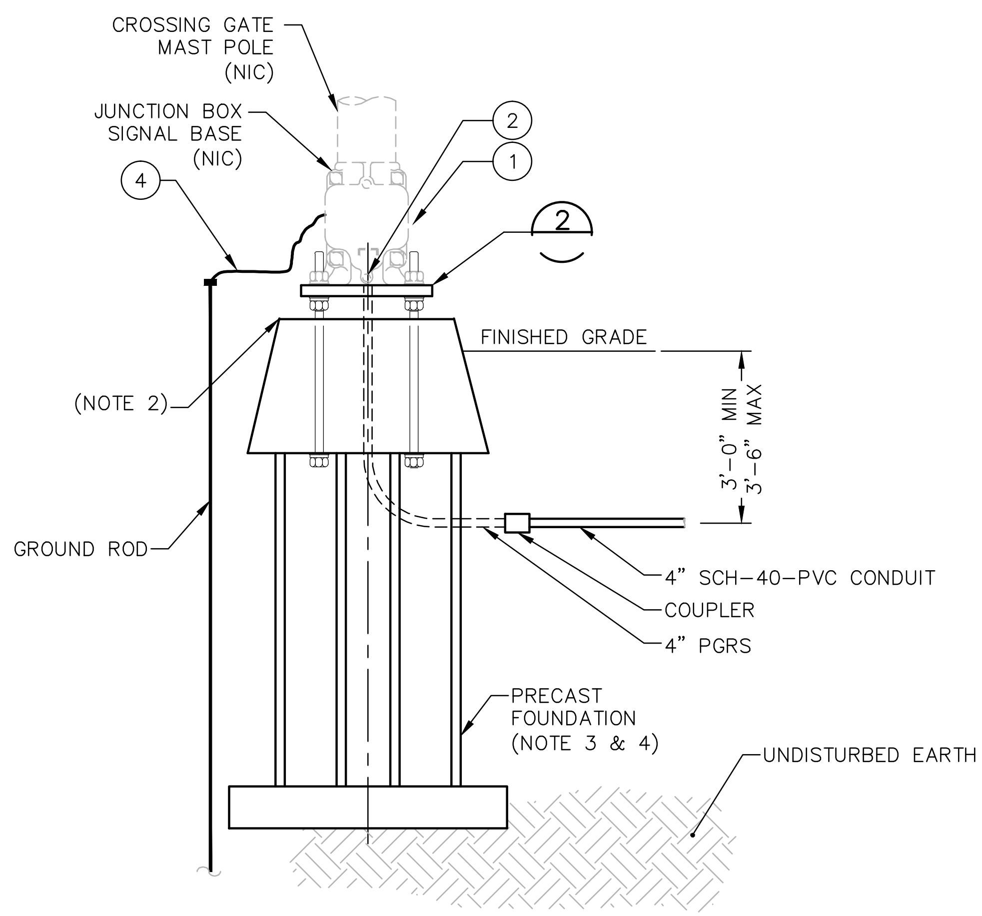
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

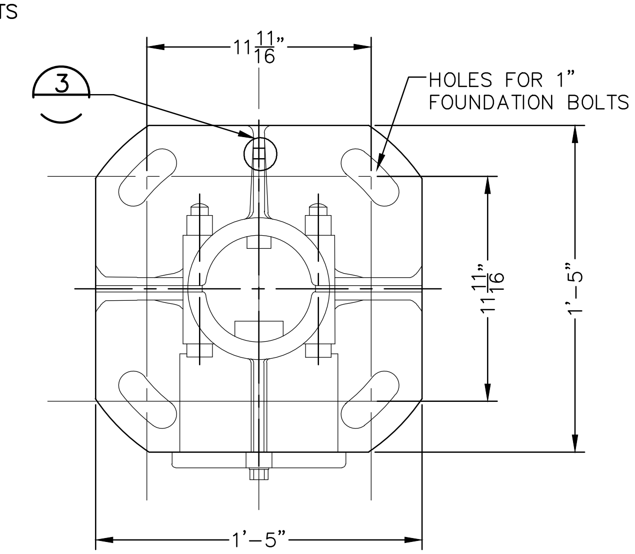
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
WAYSIDE SIGNAL MAST
TYPICAL FOUNDATION INSTALLATION

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-005



1 CROSSING MAST POLE INSTALLATION ON PRECAST FOUNDATION
SCALE: NTS

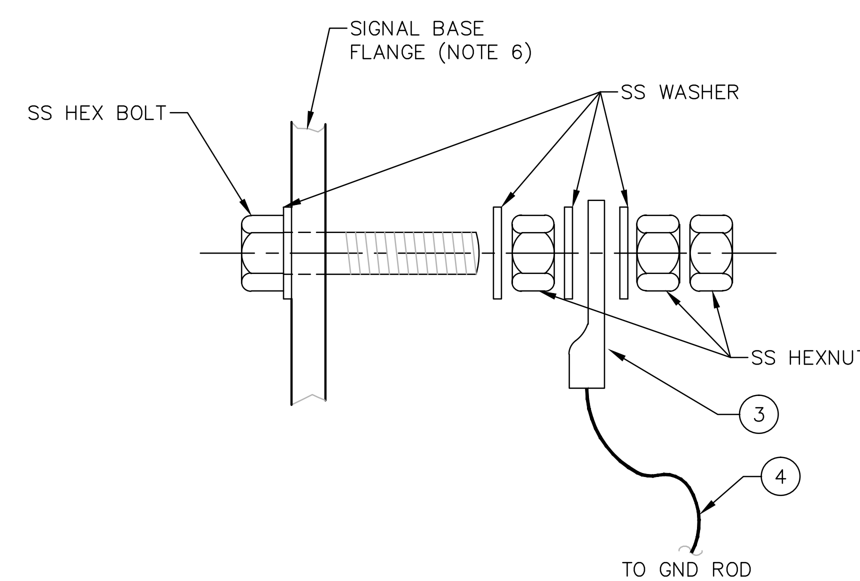


2 CROSSING MAST BASE PLATE DETAIL
SCALE: NTS

BILL OF MATERIALS		
ITEM	QTY.	DESCRIPTION
1	1	CROSSING MAST W/ JUNCTION BOX BASE (NIC)
2	AS REQ'D	DUCT SEAL (NIC)
3	1	GROUND LUG AMP#33467 (NIC)
4	AS REQ'D	#6 BARE STRANDED COPPER WIRE (NIC)

NOTE:

1. PROVIDE FOUNDATION, ANCHOR BOLTS, GROUND ROD, CONDUIT, BASE PLATES, NUTS AND WASHERS REQUIRED FOR INSTALLATION OF THE DEVICE
2. TOP OF FOUNDATION TO BE 2" ABOVE TOP OF PAVEMENT OR 6" ABOVE TOP OF GRADE IN NON-PAVEMENT AREAS
3. CONTRACTOR SHALL DEMONSTRATE THAT THE CROSSING FOUNDATION WILL BE COMPLIANT WITH AREMA & WILL BE STRUCTURALLY ADEQUATE FOR EACH INSTALLATION
4. CONTRACTORS GEOTECHNICAL CONSULTANT SHALL VERIFY THAT SOIL CONDITIONS ARE ADEQUATE FOR THE SIGNAL FOUNDATION DESIGN
5. CONTRACTOR WILL FURNISH FOUNDATION WITH CONDUIT, ANCHOR BOLTS AND GROUND ROD
6. CONTRACTOR SHALL FURNISH DRILL FLANGE FOR CONNECTION OF GROUND STUD TO BASE
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ OF TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ OF TRACK



3 POLE GROUNDING DETAIL (NIC)
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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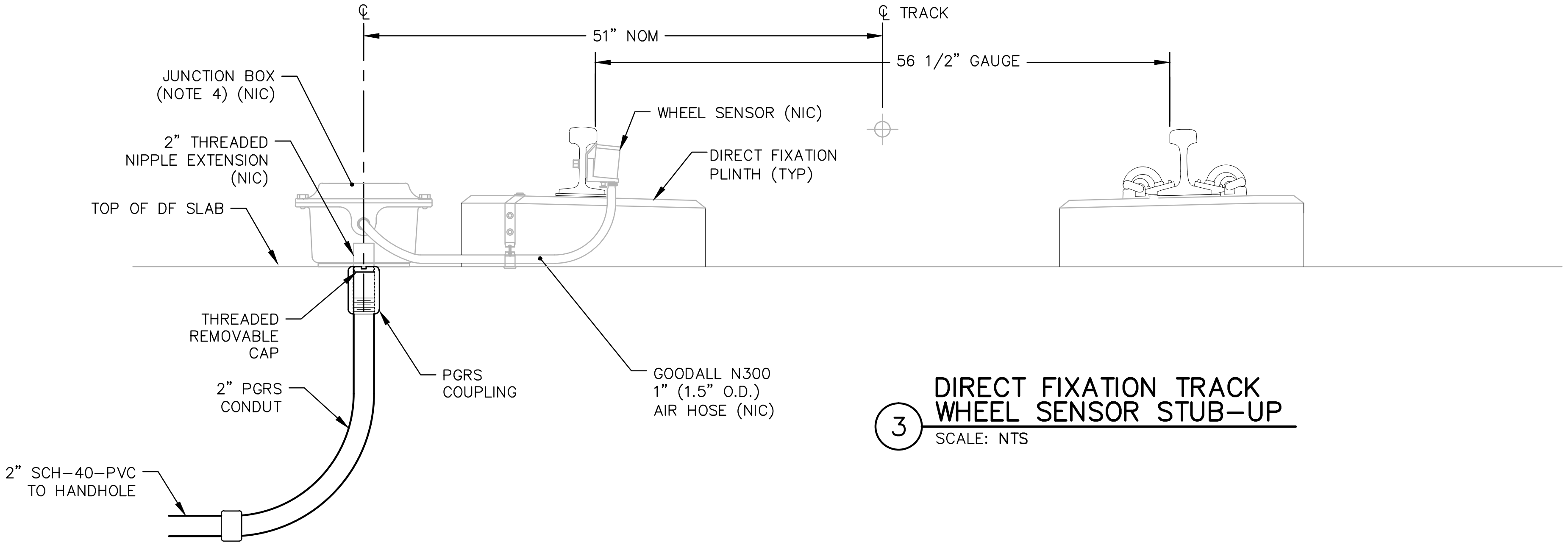
SOUTHWEST Green Line LRT Extension

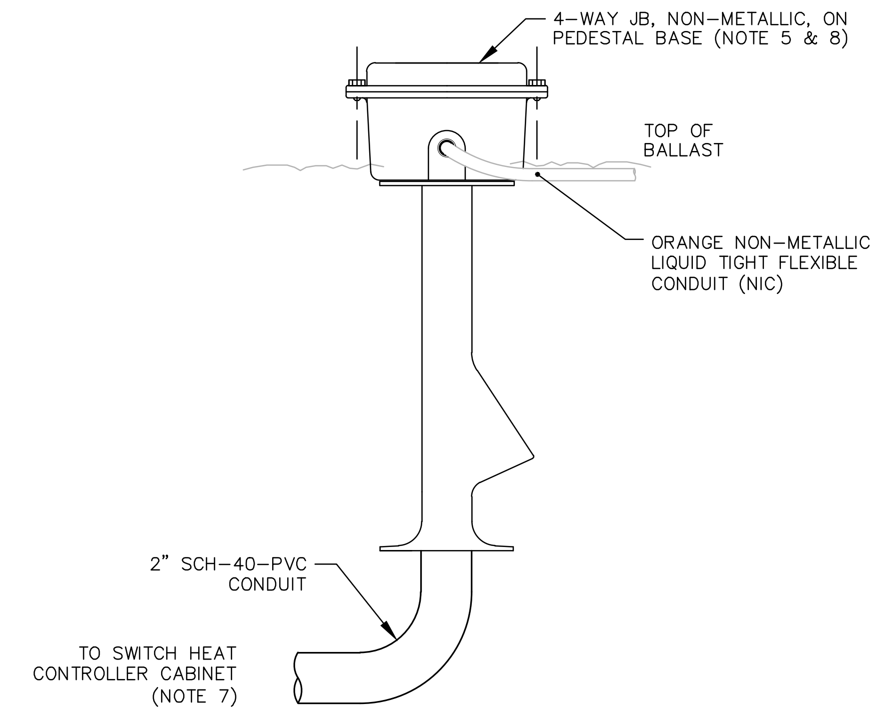
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
GRADE CROSSING MAST
TYPICAL FOUNDATION INSTALLATION

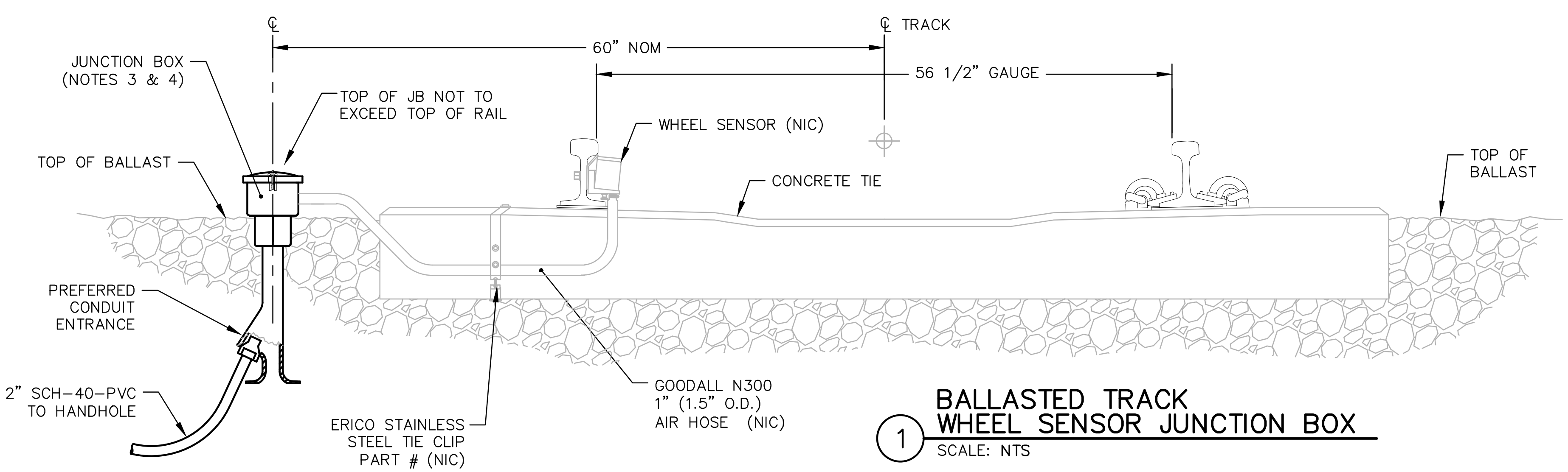
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-006



3 DIRECT FIXATION TRACK WHEEL SENSOR STUB-UP
SCALE: NTS



2 BALLASTED TRACK SWITCH HEATER JUNCTION BOX
SCALE: NTS



1 BALLASTED TRACK WHEEL SENSOR JUNCTION BOX
SCALE: NTS

NOTES:

1. WHEEL SENSORS ARE SHOWN FOR REFERENCE ONLY.
2. REFER TO THE SPECIFICATION AND WHEEL SENSOR MANUFACTURERS INSTALLATION REQUIREMENTS FOR RAIL DRILLING REQUIREMENTS, MOUNTING INSTRUCTIONS AND SPECIFIC INSTALLATION REQUIREMENTS.
3. FOR BALLASTED TRACK, PLACE PEDESTAL MOUNTED JUNCTION BOX ON THE FIELD SIDE OF RAILS FOR COORDINATION WITH THE NEAREST HANDHOLE LOCATION. JUNCTION BOX SHALL BE WESTERN CULLEN HAYES 1155 OR APPROVED EQUAL.
4. NO GROUNDING CONNECTION REQUIRED FOR WHEEL SENSOR INSTALLATION.
5. THIS DRAWING INCLUDES THE MAJOR ITEMS AND DOES NOT INCLUDE ALL REQUIRED COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
6. MANUFACTURER SHALL BE SUBMITTED FOR APPROVAL.
7. SWITCH HEATER CABLES SHALL BE ROUTED IN 2" CONDUITS AND ARE ROUTED DIRECTLY TO SWITCH HEATER CONTROL EQUIPMENT.
8. FOR ADDITIONAL INSTALLATION DETAILS FOR SWITCH POINT HEATERS, SEE SIGNAL SYSTEM DRAWINGS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

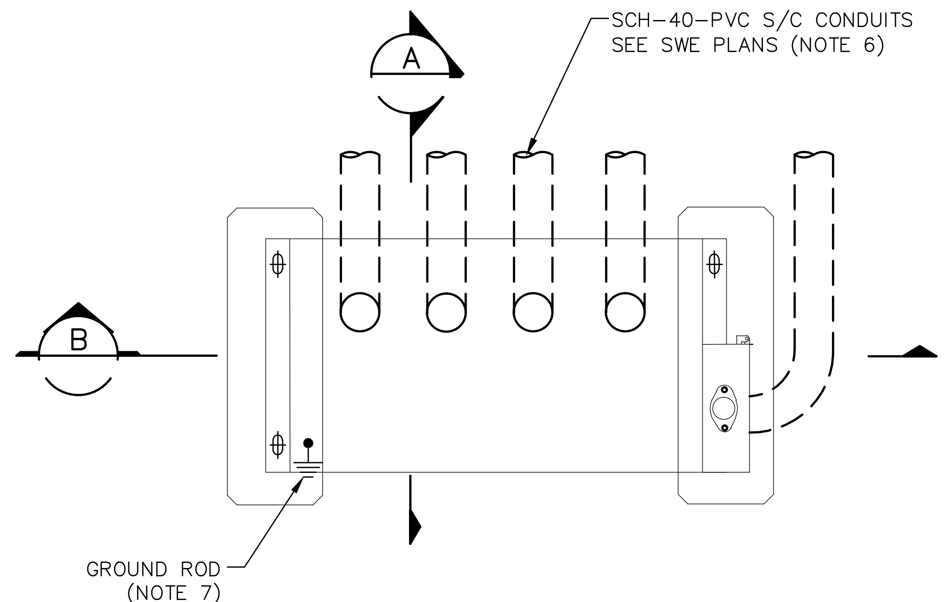
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
WHEEL SENSOR - DF &
BALLASTED TRACK INSTALLATION

DISCIPLINE: SYSTEMS

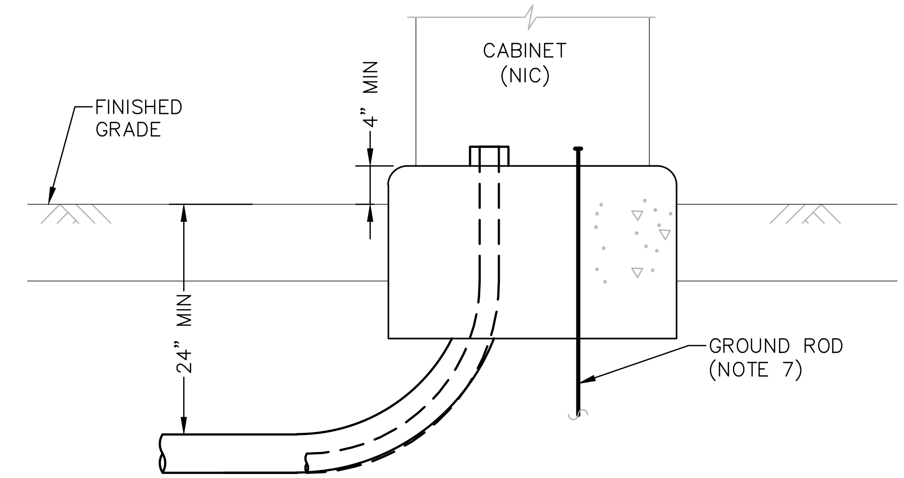
SHEET NAME: E0-SYS-SWE-DTL-SIG-007

NOTES:

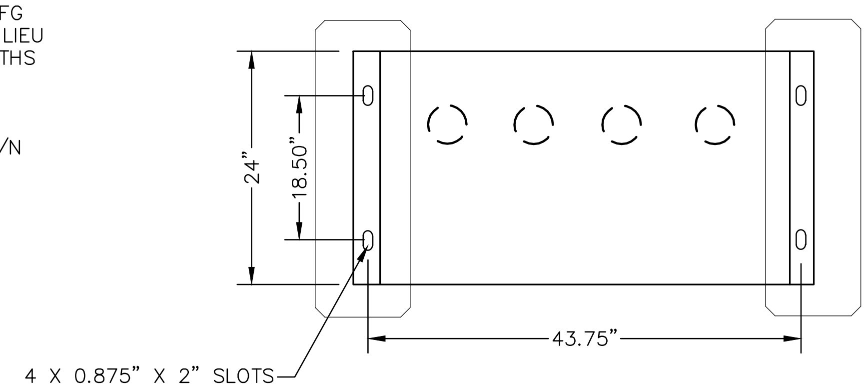
1. THE ANCHOR BOLTS, NUTS AND WASHERS FOR THE CONTROLLER CABINET SHALL BE FURNISHED ACCORDING TO THE CABINET MFGR SPECIFICATIONS. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) (NIC).
2. THE UPPER PART OF THE EQUIPMENT PLINTHS SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER.
3. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION.
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET AS NECESSARY AND SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) OR WITH THE BASE DIMENSIONS OF THE CABINET.
5. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PLINTHS IN ACCORDANCE WITH Mn/DOT STANDARD CONCRETE DESIGNS.
6. THE EXACT LOCATION AND NUMBER OF CONDUITS SHALL BE DETERMINED BY THE CASE MFG SPECIFICATIONS. CONTRACTOR TO PROVIDE KNOCK-OUT SPACE IN FINISHED GRADE FOR ACCESS TO CONDUIT ENTRANCE.
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ TRACK. (NIC)
8. USE AN ADEQUATE POST-INSTALLED CHEMICAL SET ANCHOR BOLT OF A DESIGN SUBMITTED FOR APPROVAL. (NIC)
9. CONCRETE PLINTHS SHALL BE POURED BASED ON CABINET MFG SPECIFICATIONS. PRE-CAST PLINTHS/PIERS MAY BE USED IN LIEU OF POURED PLINTHS. EXACT SIZE AND DEPTH OF PIERS/PLINTHS TO BE DETERMINED BY MFG SPECIFICATIONS AND CASE LOAD. FOUNDATION DESIGN MUST BE SUBMITTED FOR APPROVAL.
10. PRECAST OR POURED PLINTHS SHALL BE BASED ON PTMW P/N 41040J CASE OR APPROVED EQUAL. (NIC)



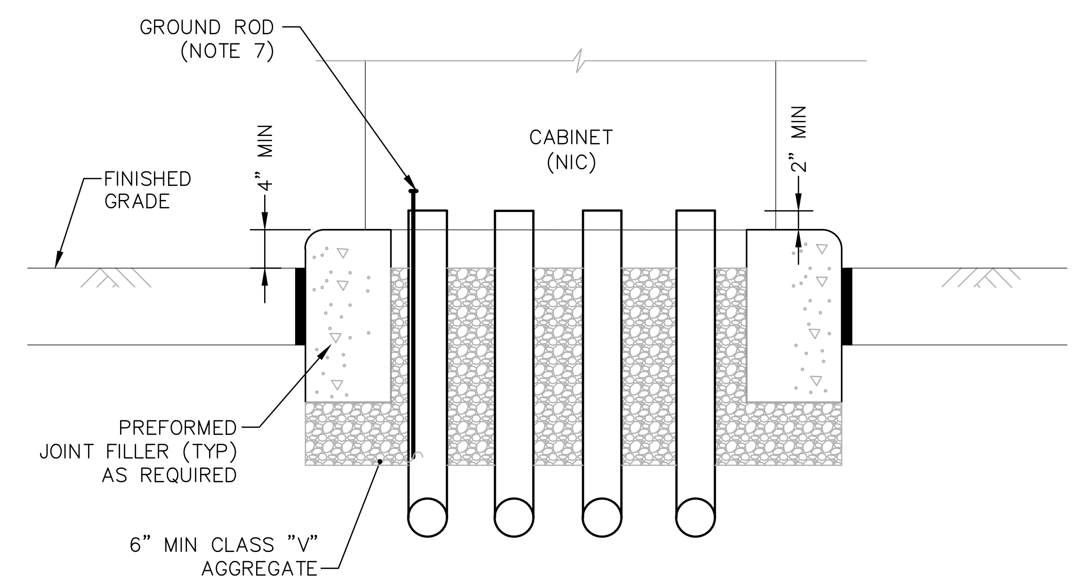
1 FOUNDATION PLAN
SCALE: NTS



A SECTION
SCALE: NTS



2 CABINET BASE DETAIL
SCALE: NTS



B SECTION
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
PEDESTRIAN CROSSING CASE
TYPICAL FOUNDATION INSTALLATION

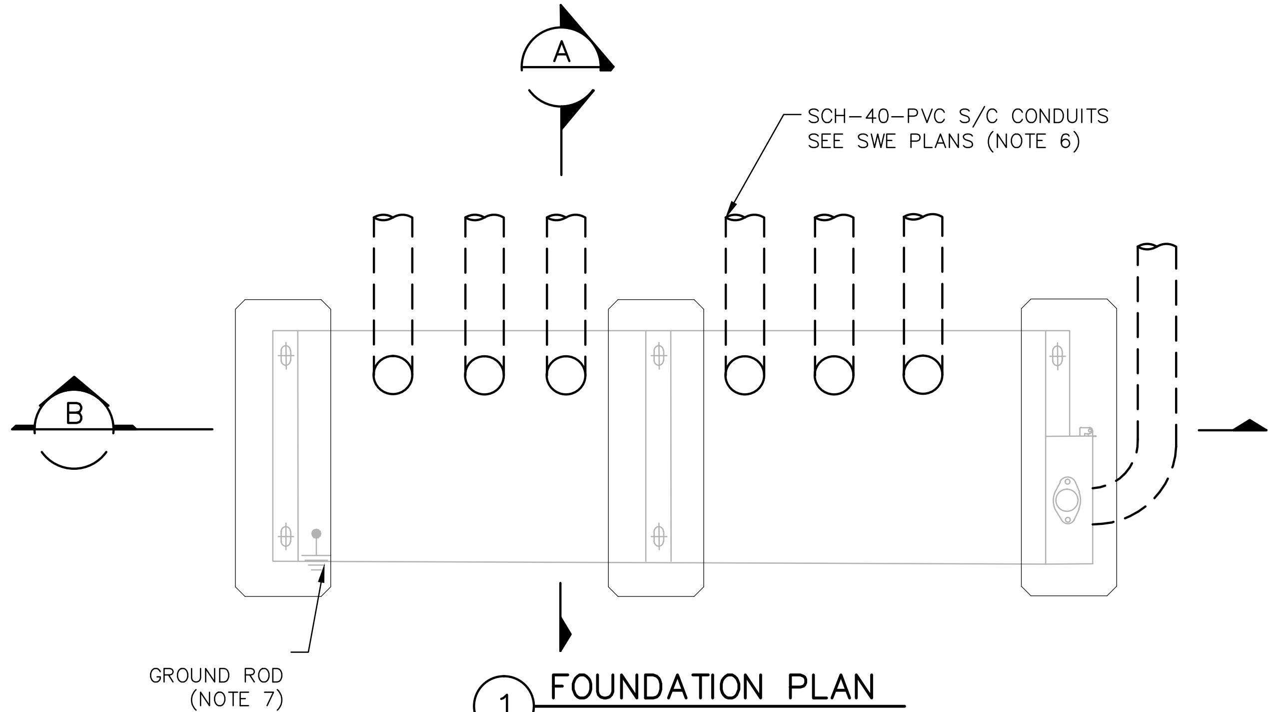
DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-008

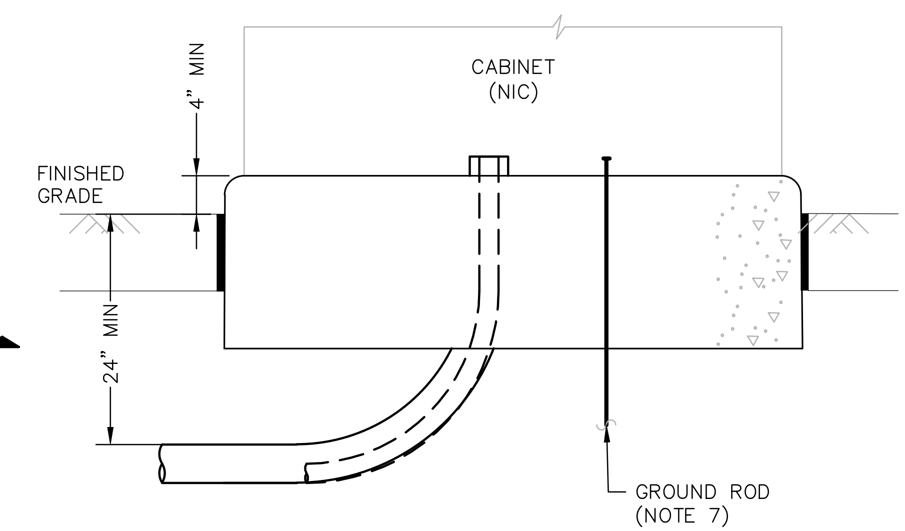
SHEET 356 OF 464

NOTES:

1. THE ANCHOR BOLTS, NUTS AND WASHERS FOR THE CONTROLLER CABINET SHALL BE FURNISHED ACCORDING TO THE CABINET MFGR SPECIFICATIONS. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) (NIC).
2. THE UPPER PART OF THE EQUIPMENT PAD SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER.
3. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION.
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET AS NECESSARY AND SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) OR WITH THE BASE DIMENSIONS OF THE CABINET.
5. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PLINTHS IN ACCORDANCE WITH Mn/DOT STANDARD CONCRETE DESIGNS.
6. THE EXACT LOCATION AND NUMBER OF CONDUITS SHALL BE DETERMINED BY THE CASE MFG SPECIFICATIONS. CONTRACTOR TO PROVIDE KNOCK-OUT SPACE IN FINISHED GRADE FOR ACCESS TO CONDUIT ENTRANCE.
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ TRACK. (NIC)
8. USE AN ADEQUATE POST-INSTALLED CHEMICAL SET ANCHOR BOLT OF A DESIGN SUBMITTED FOR APPROVAL. (NIC)
9. CONCRETE PLINTHS SHALL BE POURED BASED ON CABINET MFG SPECIFICATIONS. PRE-CAST PLINTHS/PIERS MAY BE USED IN LIEU OF POURED PLINTHS. EXACT SIZE AND DEPTH OF PIERS/PLINTHS TO BE DETERMINED BY MFG SPECIFICATIONS AND CASE LOAD. FOUNDATION DESIGN MUST BE SUBMITTED FOR APPROVAL.
10. PRECAST OR POURED PLINTHS SHALL BE BASED ON PTMW P/N 41055E CASE OR APPROVED EQUAL.(NIC)



1 FOUNDATION PLAN
SCALE: NTS



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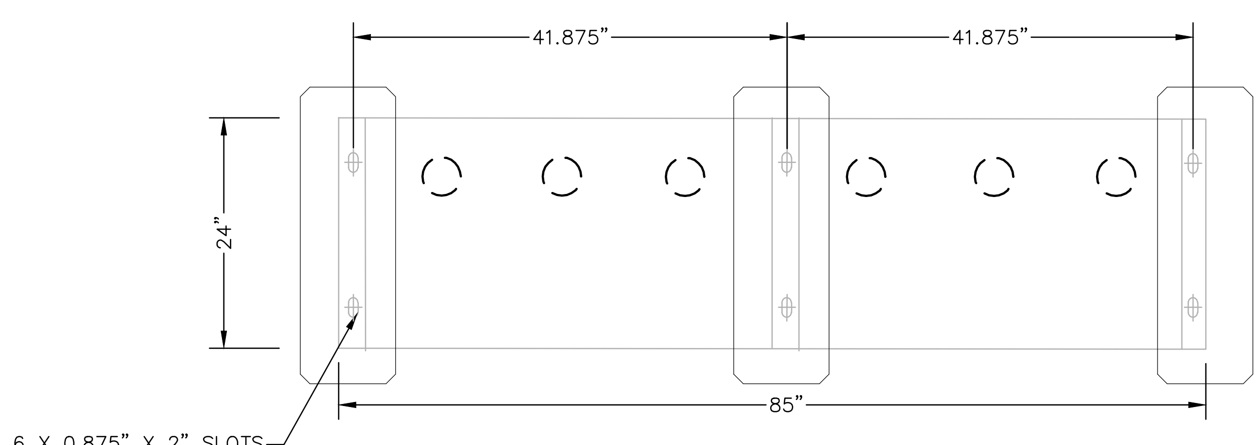
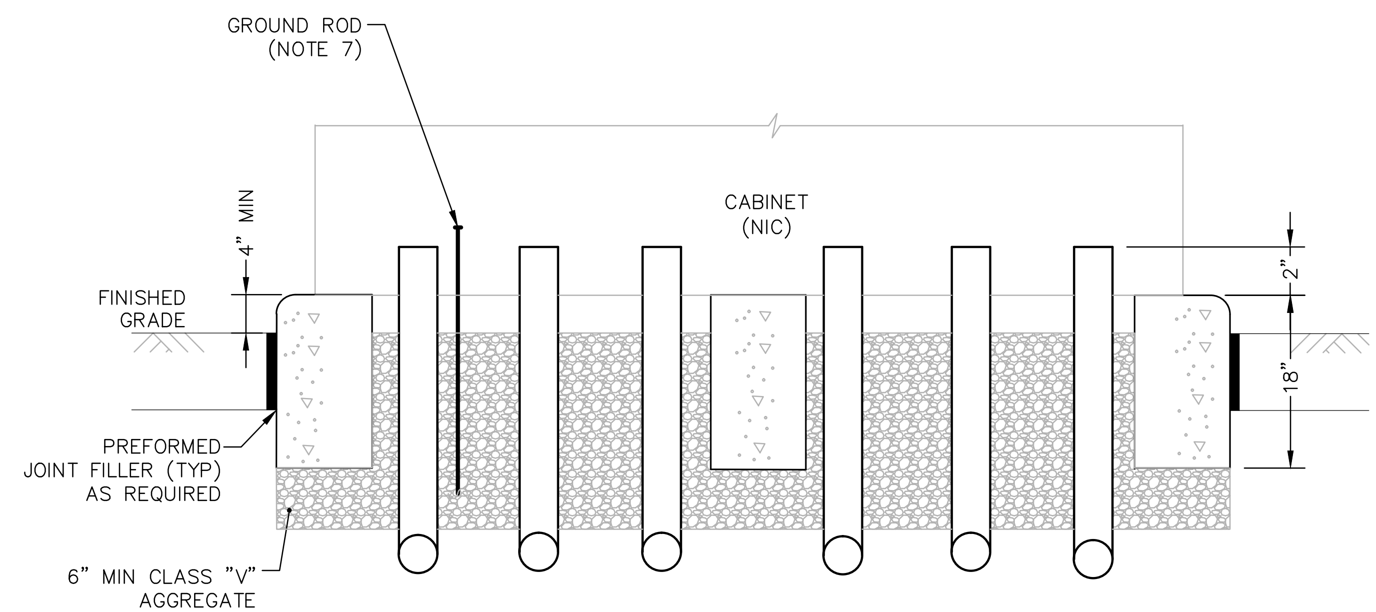


2 CABINET BASE DETAIL
SCALE: NTS



B SECTION
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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WSP
PARSONS BRINCKERHOFF

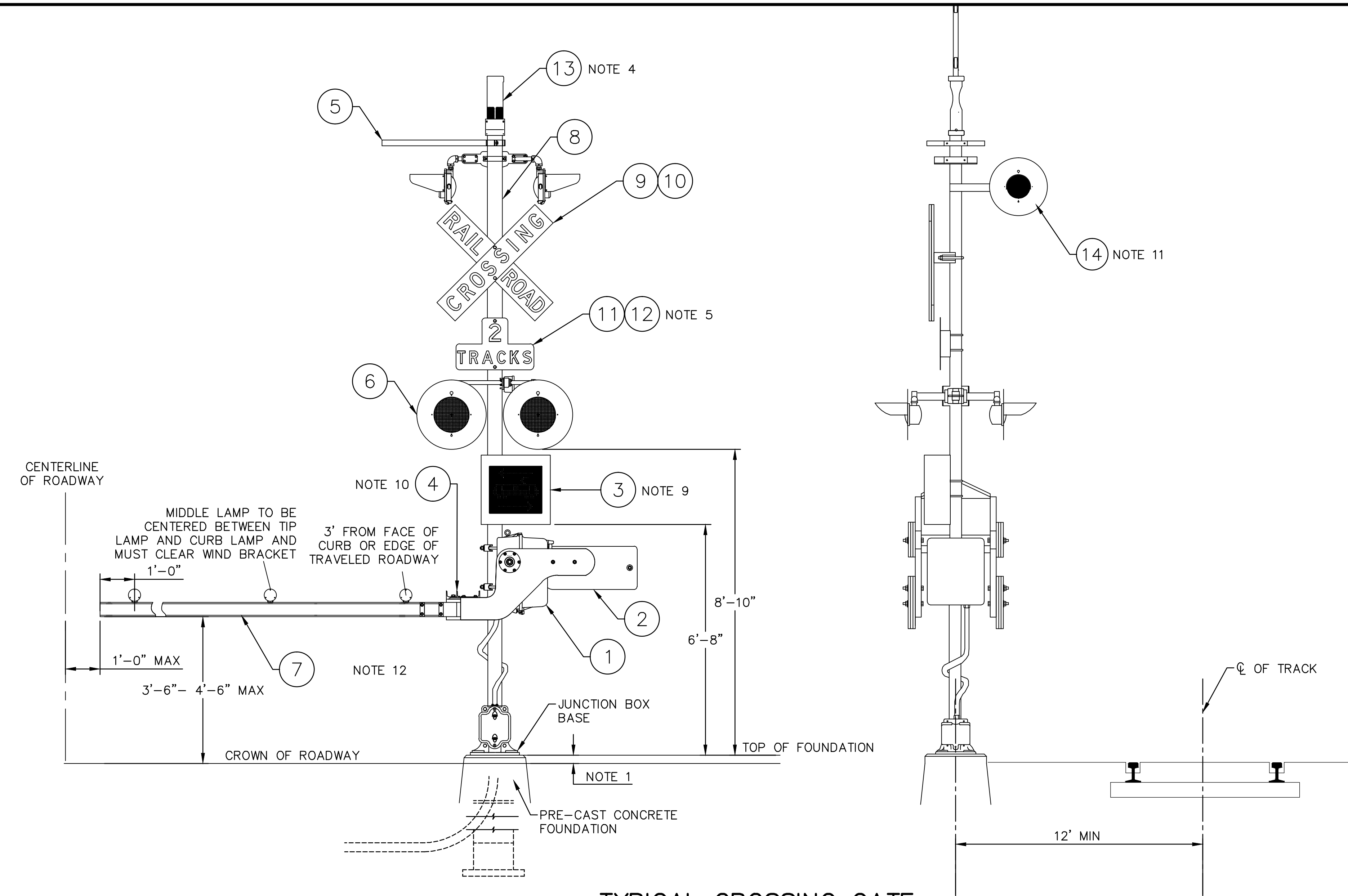
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

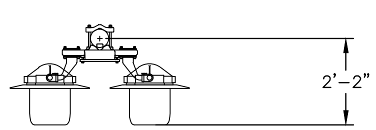
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
CUT SECTION CASE
TYPICAL FOUNDATION INSTALLATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-009

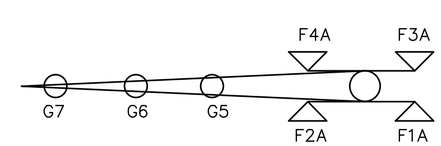
SHEET 357 OF 464



1 TYPICAL CROSSING GATE INSTALLATION DETAIL
SCALE: NTS



MAIN LIGHT FRONT ORIENTATION



2 XING LIGHTING FLASHER NAMES
SCALE: NTS

NOTES:

1. TOP OF FOUNDATION TO BE NO HIGHER THAN 4" ABOVE GROUND LEVEL ADJACENT TO FOUNDATION.
2. PROVIDE CABLE ENTRANCES TO FOUNDATIONS AS REQUIRED.
3. PRE-CAST FOUNDATIONS ARE PREFERRED WHERE POSSIBLE.
4. WESTERN CULLEN HAYES MODEL WCH0777 ELECTRONIC BELL.
5. "2 TRACK" SIGN REQUIRED FOR ALL CROSSINGS. (IF MORE THAN 2 TRACKS STATE # OF TRACKS).
6. SEE DETAIL 2 FOR FLASHING LIGHT NUMBERING.
7. INSTALL GROUND ROD ADJACENT TO FOUNDATION AND CONNECT GROUND WIRE TO GROUND STUD ON SIGNAL BASE. ATTACH GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ OF TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ OF TRACK.
8. SEE INDIVIDUAL CROSSING DRAWINGS FOR UNIQUE SITE INFORMATION.
9. 24"X24"X9" DEEP "SECOND TRAIN" SIGN ON GATE MAST SHALL BE INSTALLED AND MUST FACE TRACK FOR ALL CROSSINGS WHERE PEDESTRIANS ARE PRESENT. (SEE FREIGHT PLAN FOR "SECOND TRAIN" SIGN INFORMATION).
10. GENERAL SIGNALS MODEL SK-1000-2W BI-DIRECTIONAL GATE KEEPER REQUIRED FOR EACH GATE.
11. LUNAR GATE DOWN INDICATION LIGHT OPERATION: SOLID LUNAR DISPLAYED WHEN CROSSING ACTIVATED AND FLASHING LUNAR DISPLAYED WHEN CROSSING ACTIVATED AND GATES DOWN.
12. GATE LENGTH TO BE DETERMINED BY ROAD WIDTH.

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	1	GATE MECHANISM
2	1	GATE COUNTER WEIGHT
3	AS REQ'D	24" x 24" x 9" 2ND TRAIN SIGN
4	1	GATE KEEPER BRACKET
5	1	TUBULAR TYPE WIND SUPPORT BRACE
6	4	12" GE RG6 "UNIFORM LOOK" LED MODULES WITH SIDE LIGHTS AND 24" BACKGROUND
7	1	RAILWAY EQUIPMENT COMPANY EZ GATE WITH RECO EZ LED GATE LIGHT PACKAGE HAVING 5-PIN GATE DROPOUT COUPLER AND GATE-OFF INDIACTION CIRCUIT PER METRO TRANSIT STANDARD.
8	1	5" DIA x 16' MAST (TYP.)
9	1	SINGLE SIDED X-BUCK SIGN
10	AS REQ'D	DOUBLE SIDED X-BUCK SIGN
11	1	SINGLE SIDED 2-TRACK SIGN
12	AS REQ'D	DOUBLE SIDED 2-TRACK SIGN
13	1	ELECTRONIC RAILROAD BELL
14	2	8" GE RM4 LUNAR LED MODULE WITH LIGHT OUT DETECTION, 20" BACKGROUND - GATE DOWN INDICATION LIGHTS

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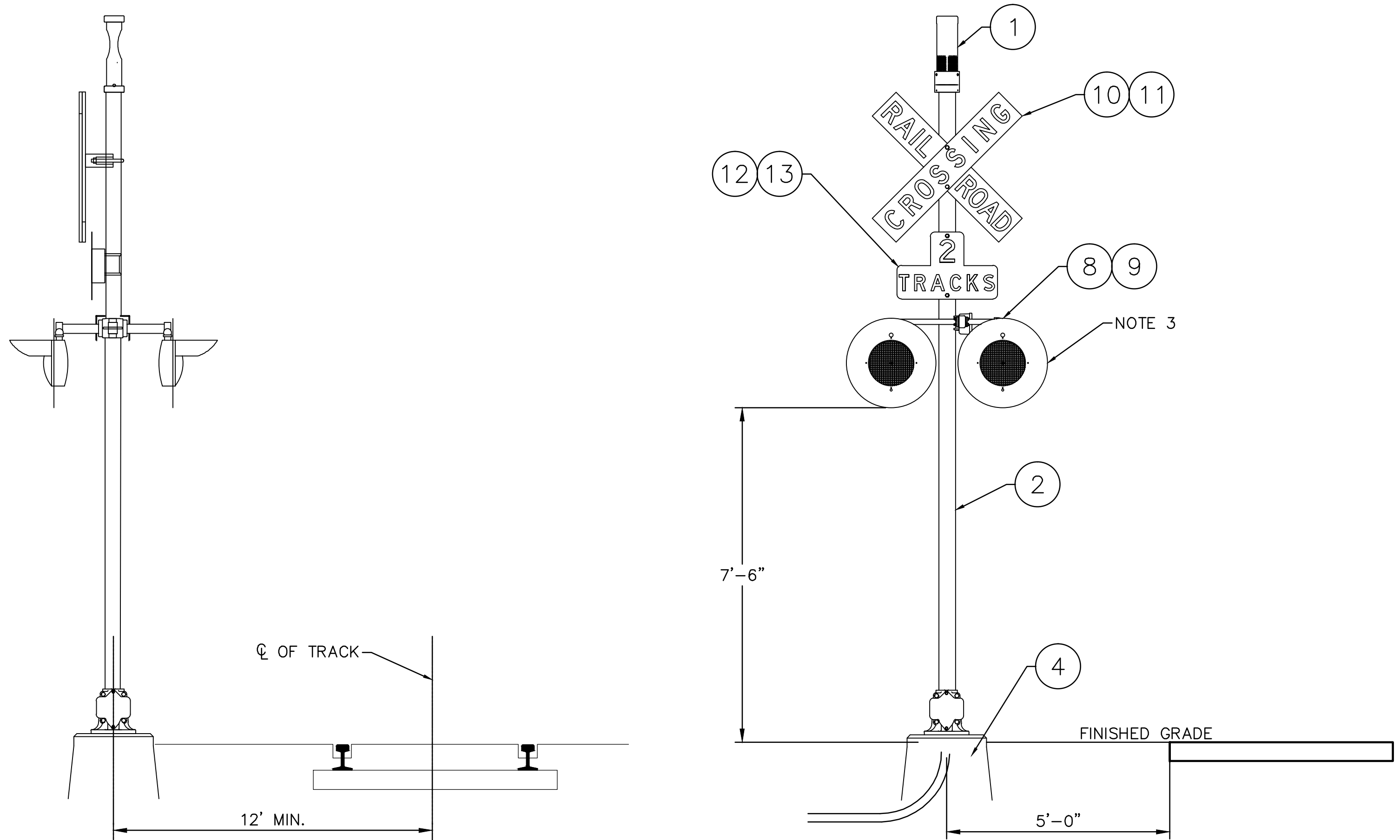
SOUTHWEST Green Line LRT Extension

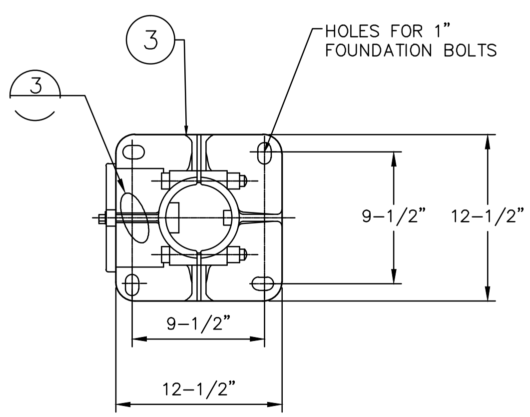
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT GRADE CROSSING EQUIPMENT
ARRANGEMENT AND INSTALLATION DETAILS

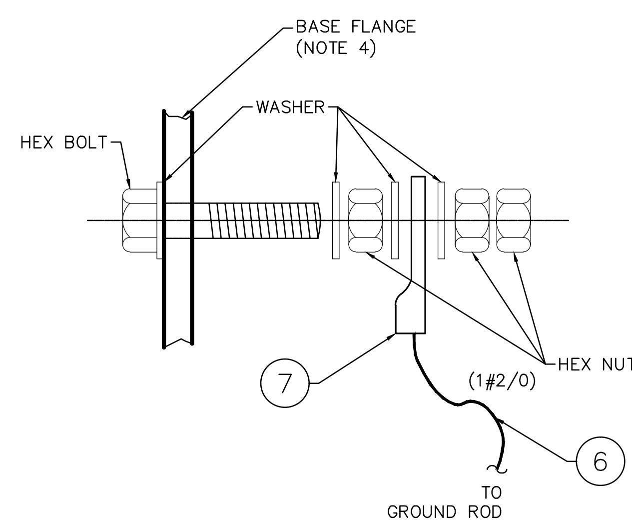
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-010



1 FREIGHT FLASHER DETAIL
SCALE: NTS



2 FREIGHT FLASHER BASE PLATE DETAIL
SCALE: NTS



3 FREIGHT FLASHER POLE GROUNDING DETAIL
SCALE: NTS

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	1	WESTERN CULLEN HAYES MODEL WCH0777 ELECTRONIC BELL
2	1	SIGNAL MAST, ALUMINUM, 4"
3	1	SPLIT JUNCTION BOX BASE
4	1	PRE-CAST CONCRETE FOUNDATION (TYP.)
5	1	10' COPPER CLAD GROUND ROD
6	AS REQ'D	#2/0 BARE STRANDED COPPER WIRE
7	1	GROUND LUG AMP #33467
8	2	24" ALUMINUM BACKGROUND, FLAT BLACK, WITH 12" VISOR
9	2	12" GE RG6 "UNIFORM LOOK" LED MODULES, WITH SIDE LIGHTS
10	AS REQ'D	SINGLE SIDED X-BUCK SIGN
11	AS REQ'D	DOUBLE SIDED X-BUCK SIGN
12	AS REQ'D	SINGLE SIDED - 2-TRACK SIGN OR NUMBER OF TRACKS REQ'D
13	AS REQ'D	DOIUBLED SIDED - 2-TRACK SIGN OR NUMBER OF TRACKS REQ'D

NOTES:

1. THE MATERIALS TABLE ONLY INCLUDES THE MAJOR ITEMS AND DOES NOT INCLUDE ALL REQUIRED ITEMS FOR A COMPLETE INSTALLATION.
2. THIS CROSSING WARNING SIGNAL ASSEMBLY SHALL BE DOUBLE-SIDED, WITH EACH ACTIVE AND PASSIVE SIGNAL VIEWABLE FOR EACH DIRECTION.
3. EACH FLASHING UNIT SHALL INCLUDE A "MOTORMANS" SIDELIGHT BUILT INTO THE SIGNAL HOUSING UNIT. THE "MOTORMAN" SIDELIGHTS SHALL BE LOCATED TO PROVIDE A VISUAL INDICATION TO THE LRV OPERATOR THAT THE CROSSING WARNING DEVICE IS ACTIVE.
4. DRILL FLANGE FOR CONNECTION OF GROUND STUD TO BASE.
5. MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL BY THE CAR.

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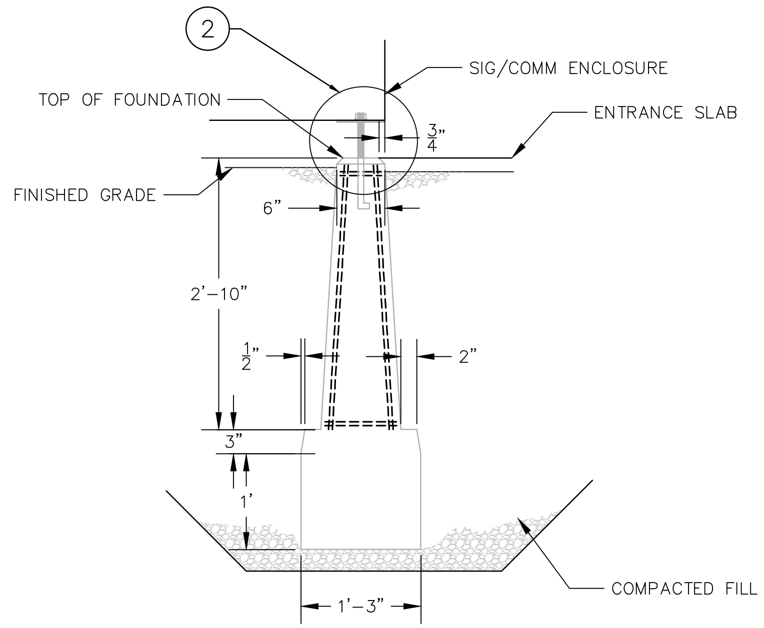
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT GRADE CROSSING EQUIPMENT
CROSSING BELL & FLASHER

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-011

Jan, 15 2016 11:11 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-011.dwg By: woodsaj



1 SECTION
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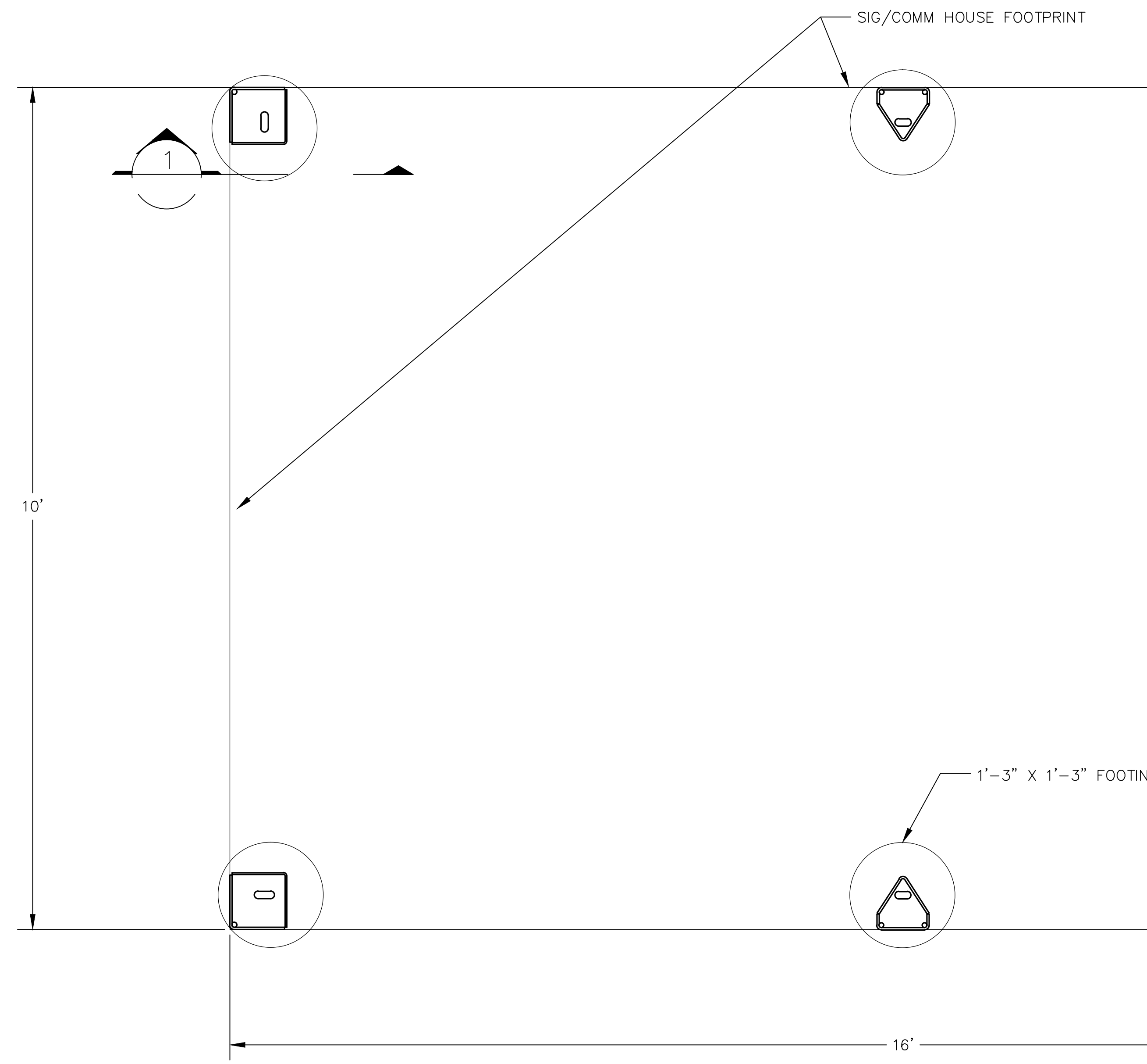
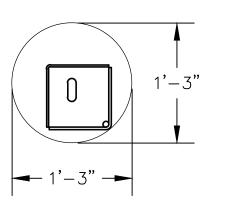
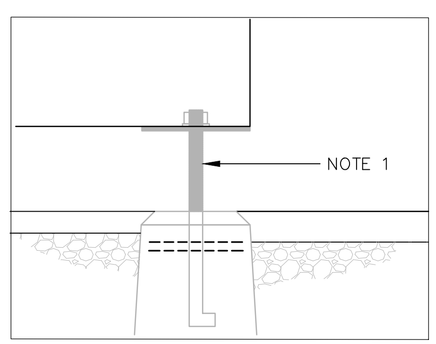


4 FOUNDATION PLAN
TYPICAL 10'X16' SIGNAL ENCLOSURE
SCALE: NTS



3 DETAIL
SCALE: NTS



2 DETAIL
SCALE: NTS

NOTES:

1. CONTRACTOR TO DETERMINE TYPE OF ATTACHMENT TO FOUNDATION.
2. FOUNDATION PIER DESIGN TO BE BASED ON FABRICATED ENCLOSURE SPECIFIED BY CONTRACTOR, ENCLOSURE LOADING, AND SHAPE OF ENCLOSURE FOOTPRINT.

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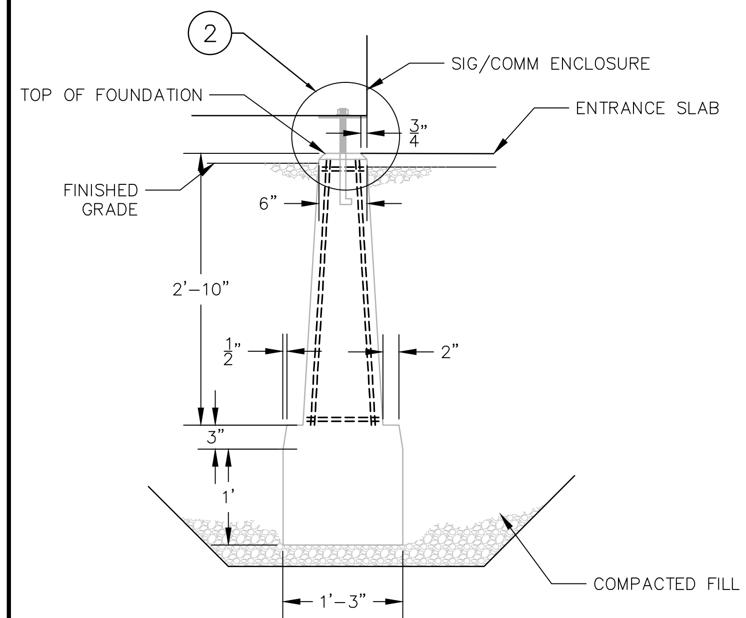
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SIGNAL HOUSE TYPICAL FOUNDATION
10'X16' SIGNAL ENCLOSURE FOUNDATION

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-012

SHEET 360 OF 464



1 SECTION
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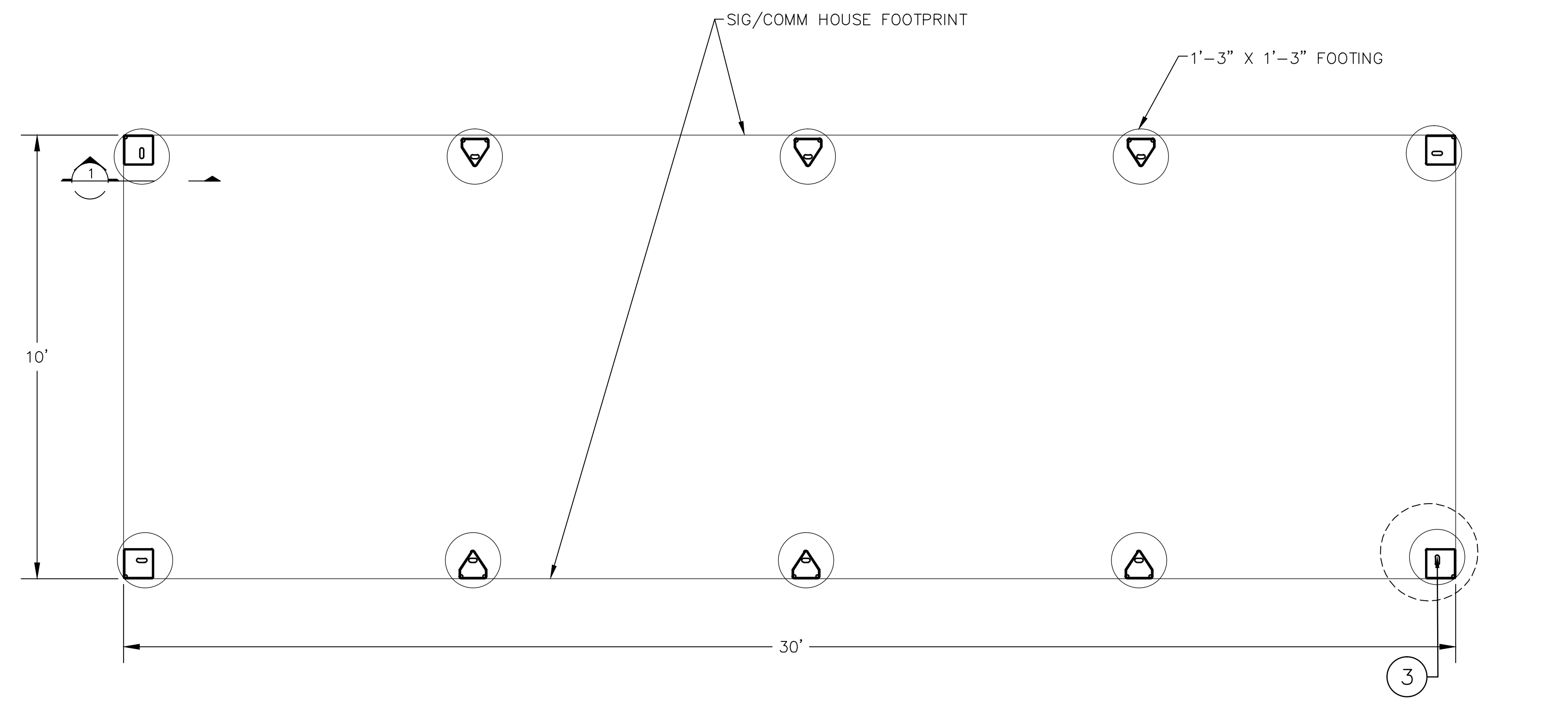
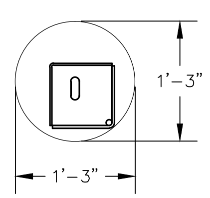
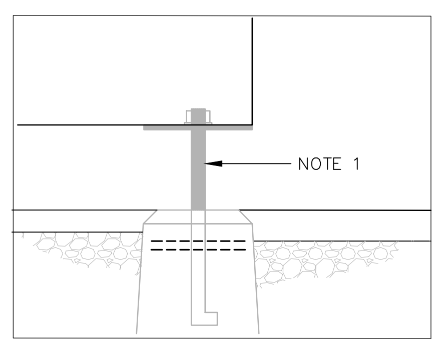


4 FOUNDATION PLAN
10'X30' SIGNAL ENCLOSURE
SCALE: NTS



3 DETAIL
SCALE: NTS



2 DETAIL
SCALE: NTS

NOTES:

1. CONTRACTOR TO DETERMINE TYPE OF ATTACHMENT TO FOUNDATION.
2. FOUNDATION PIER DESIGN TO BE BASED ON FABRICATED ENCLOSURE SPECIFIED BY CONTRACTOR, ENCLOSURE LOADING, AND SHAPE OF ENCLOSURE FOOTPRINT.

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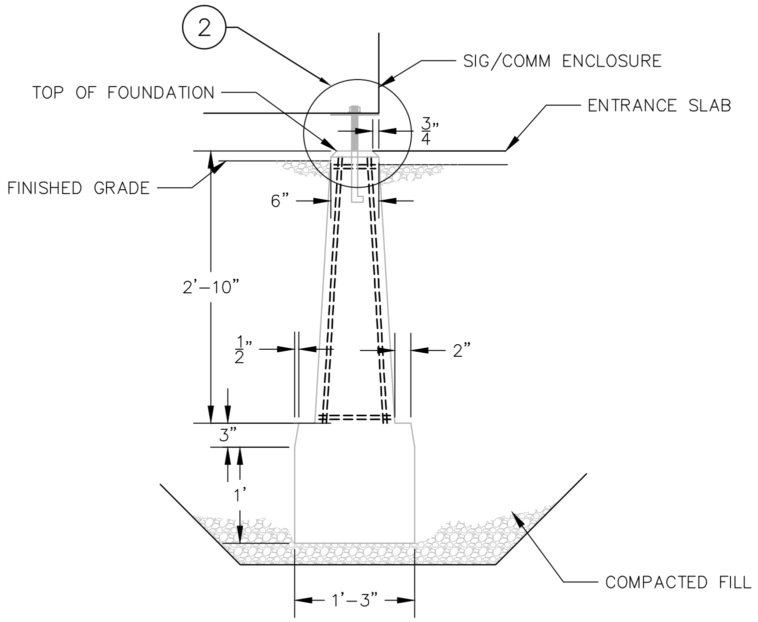
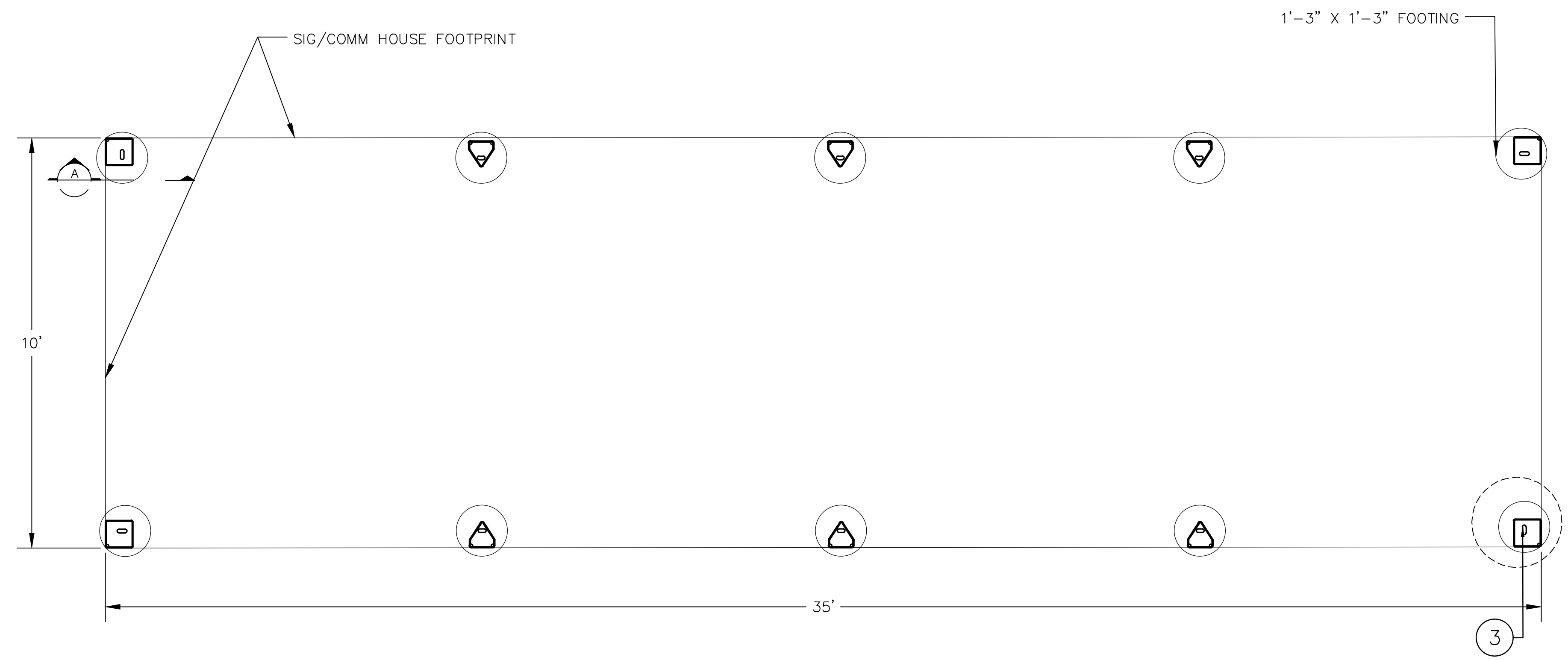
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SIGNAL HOUSE TYPICAL FOUNDATION
10'X30' SIGNAL ENCLOSURE FOUNDATION

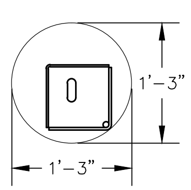
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-013



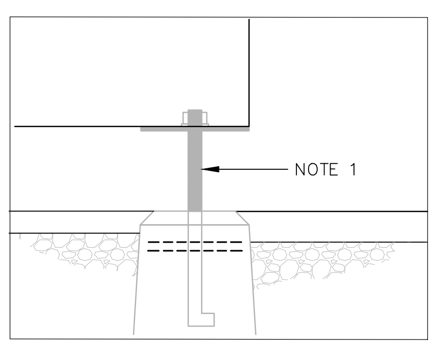
1 SECTION
SCALE: NTS



2 FOUNDATION PLAN
TYPICAL 10'X35' SIGNAL ENCLOSURE
SCALE: NTS



3 DETAIL
SCALE: NTS



4 DETAIL
SCALE: NTS

NOTES:

1. CONTRACTOR TO DETERMINE TYPE OF ATTACHMENT TO FOUNDATION.
2. FOUNDATION PIER DESIGN TO BE BASED ON FABRICATED ENCLOSURE SPECIFIED BY CONTRACTOR, ENCLOSURE LOADING, AND SHAPE OF ENCLOSURE FOOTPRINT.

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METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SIGNAL HOUSE TYPICAL FOUNDATION
10'X35' SIGNAL ENCLOSURE FOUNDATION

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-014

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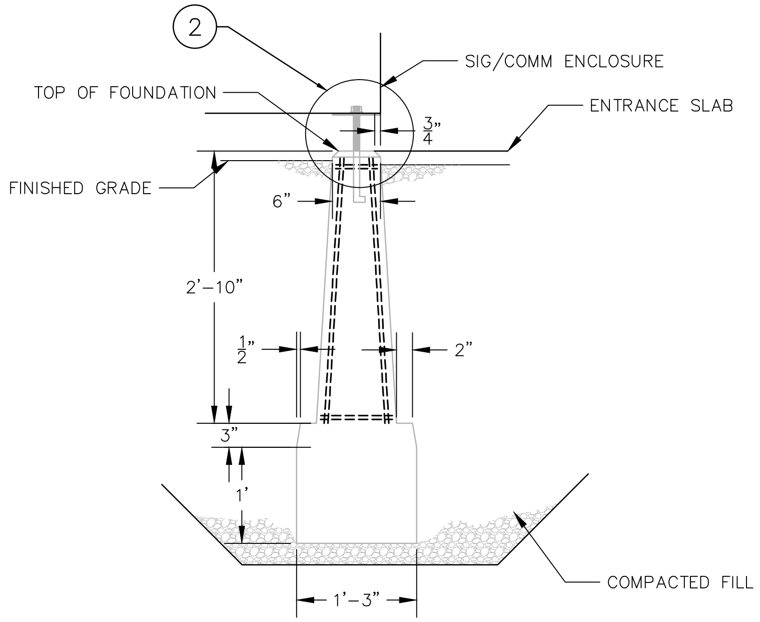
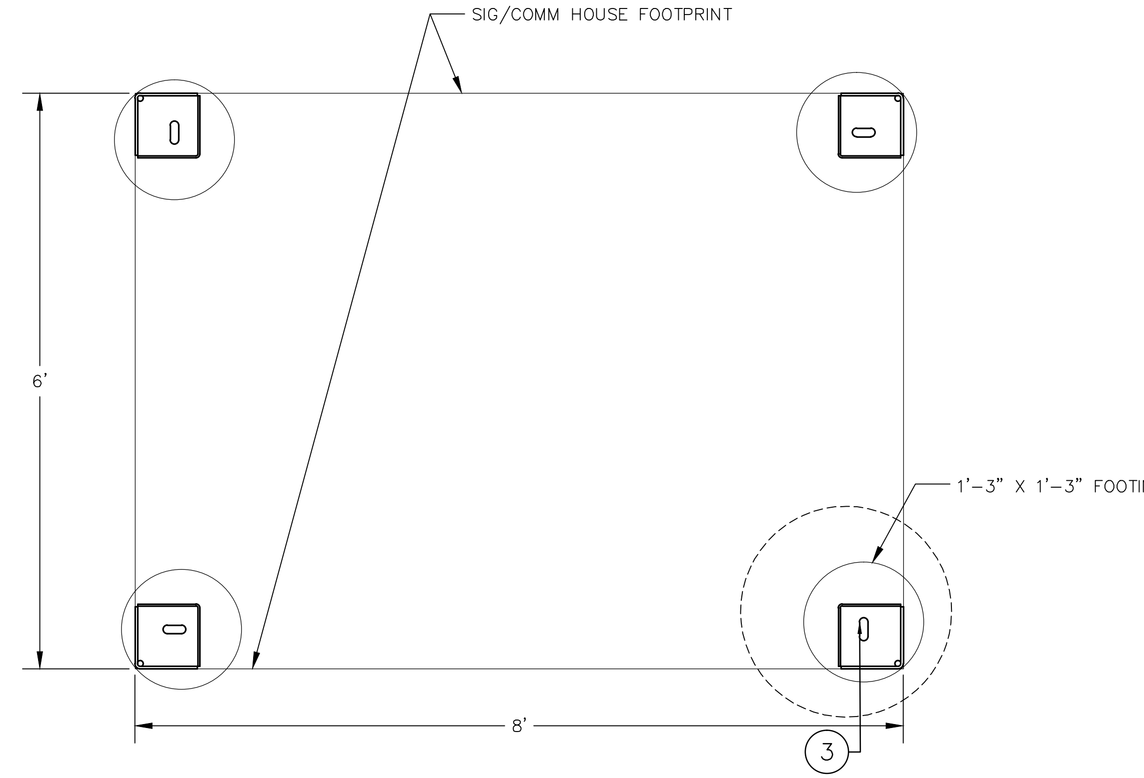
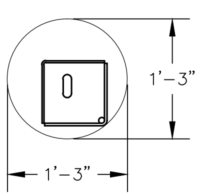


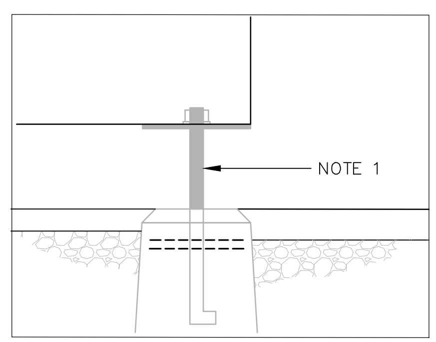
1 SECTION
SCALE: NTS



4 FOUNDATION PLAN
TYPICAL 6'X8' SIGNAL ENCLOSURE
SCALE: NTS



3 DETAIL
SCALE: NTS



2 DETAIL
SCALE: NTS

NOTES:

1. CONTRACTOR TO DETERMINE TYPE OF ATTACHMENT TO FOUNDATION.
2. FOUNDATION PIER DESIGN TO BE BASED ON FABRICATED ENCLOSURE SPECIFIED BY CONTRACTOR, ENCLOSURE LOADING, AND SHAPE OF ENCLOSURE FOOTPRINT.

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

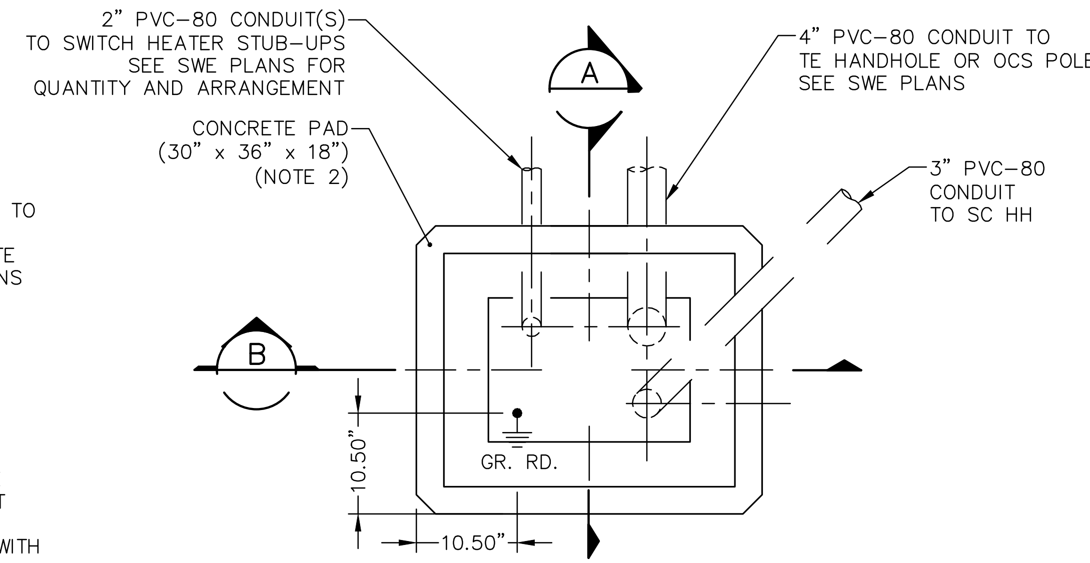
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SIGNAL HOUSE TYPICAL FOUNDATION
6'X8' GRADE CROSSING FOUNDATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-015

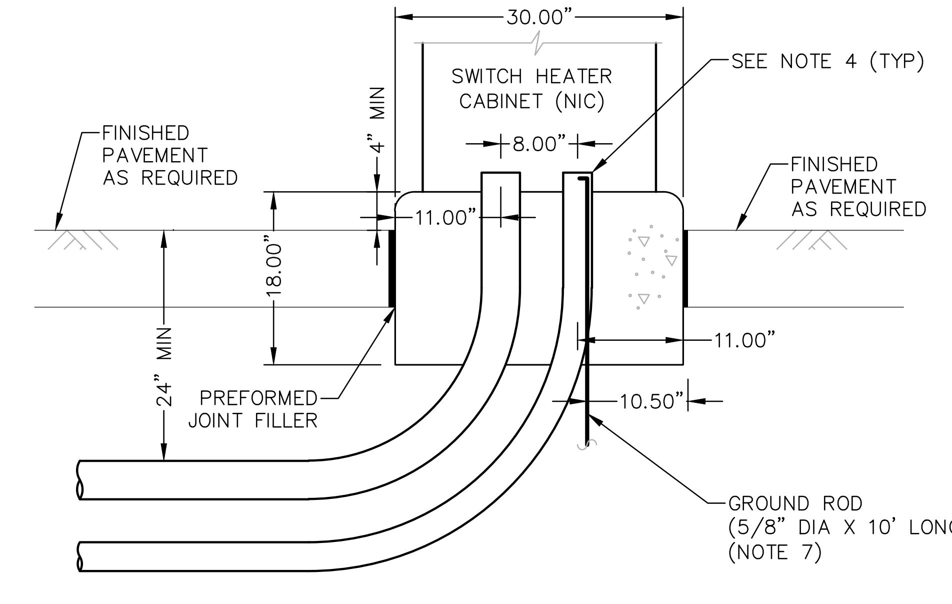
SHEET 363 OF 464

NOTES:

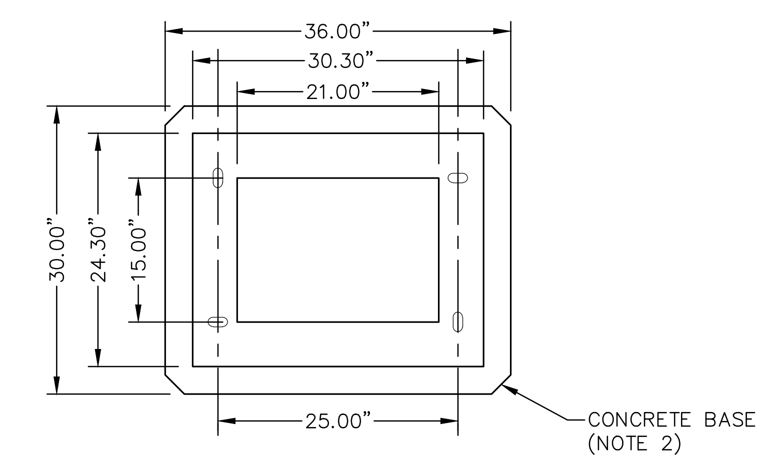
1. THE ANCHOR BOLTS, NUTS AND WASHERS FOR THE CONTROLLER CABINET SHALL BE FURNISHED ACCORDING TO THE CABINET MFGR SPECIFICATIONS. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) (NIC)
2. THE UPPER PART OF THE EQUIPMENT PAD SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER
3. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION.
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET AS NECESSARY AND SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) OR WITH THE BASE DIMENSIONS OF THE CABINET.
5. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PAD IN ACCORDANCE WITH Mn/DOT STANDARD CONCRETE DESIGNS.
6. THE EXACT LOCATION OF CONDUITS WITHIN THE PAD SHALL BE DETERMINED IN THE FIELD, AND WILL PROJECT ENTIRELY WITHIN THE BASE OPENING OF THE CABINET.
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ TRACK. (NIC)
8. USE AN ADEQUATE POST-INSTALLED CHEMICAL SET ANCHOR BOLT OF A DESIGN SUBMITTED FOR APPROVAL. (NIC)



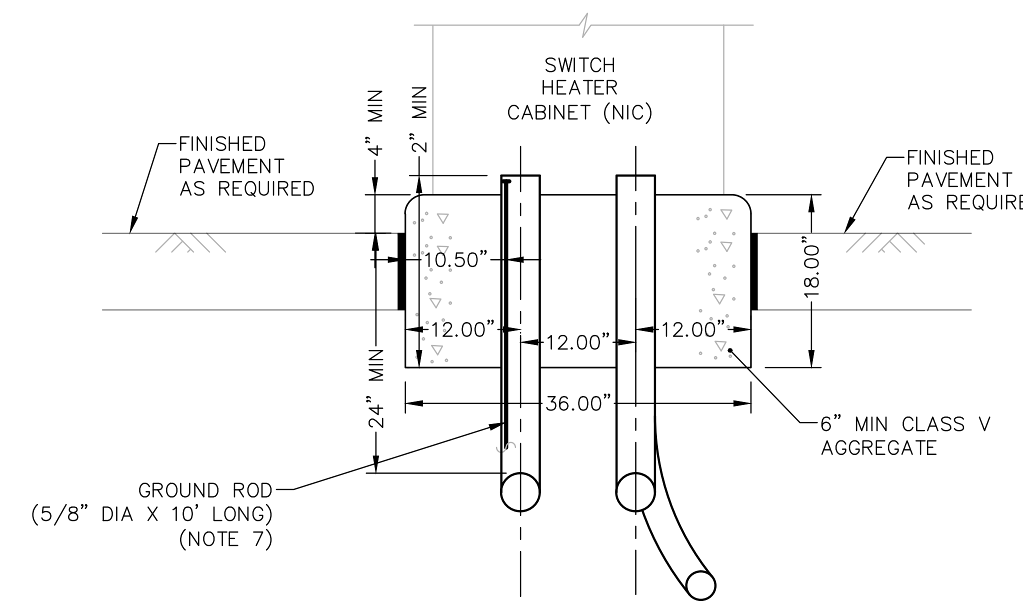
1 FOUNDATION PLAN
SCALE: NTS



A SECTION
SCALE: NTS



2 SWITCH HEATER CONTROLLER CABINET BASE DETAIL
SCALE: NTS



B SECTION
SCALE: NTS

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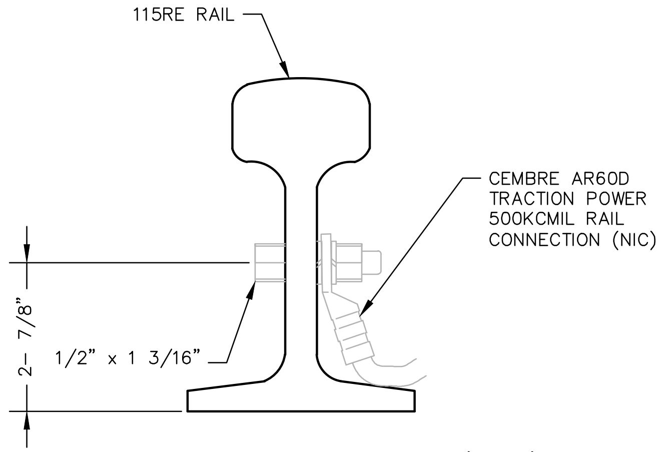
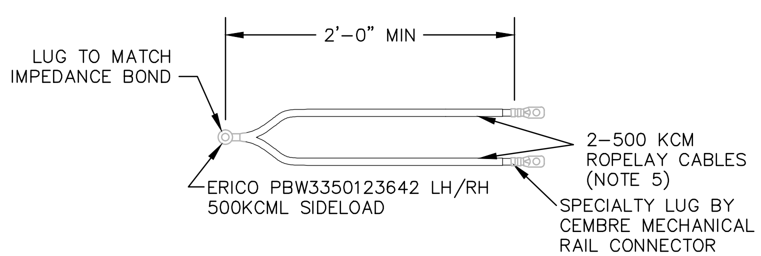
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SWITCH HEATER CASE
TYPICAL FOUNDATION INSTALLATION

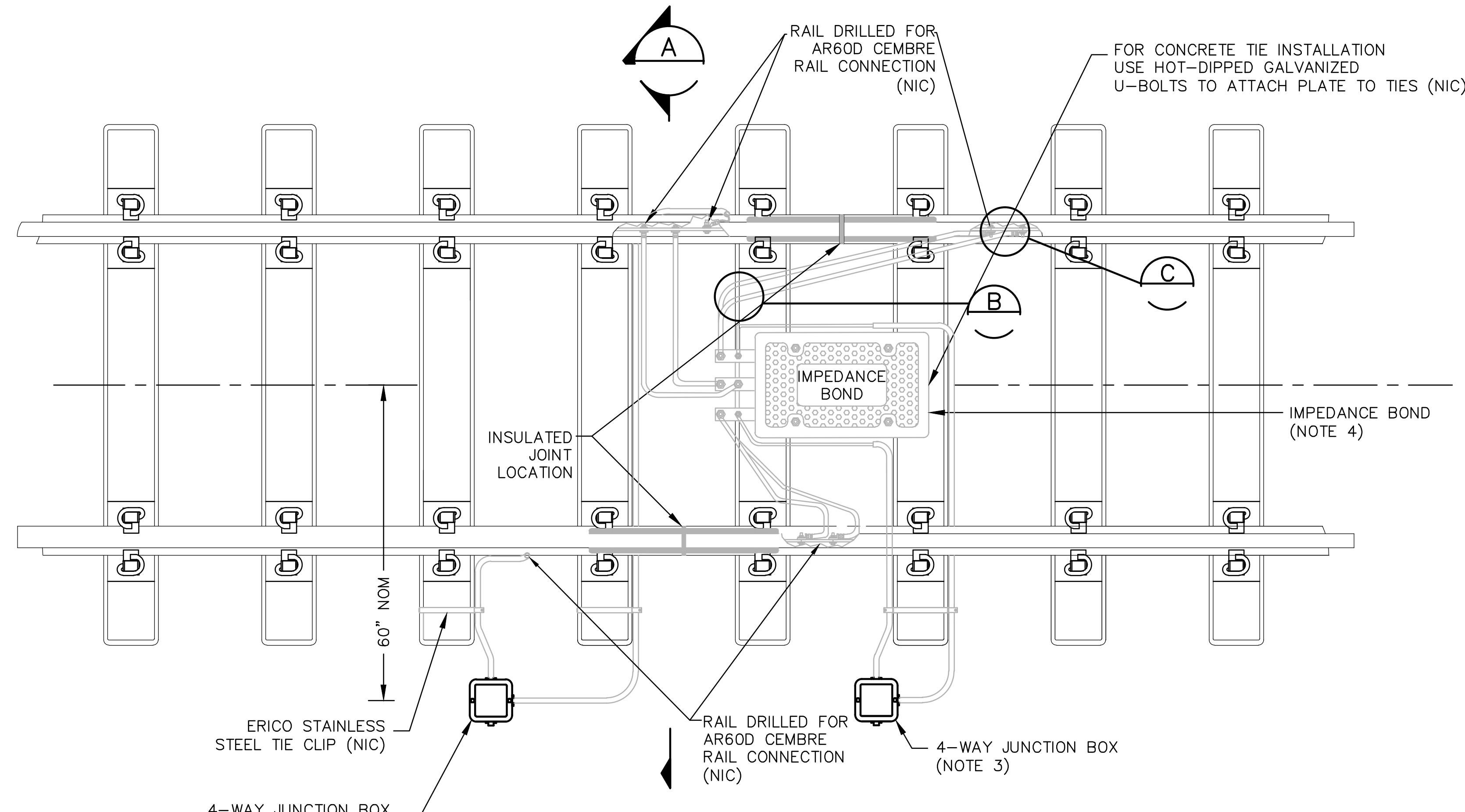
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-016



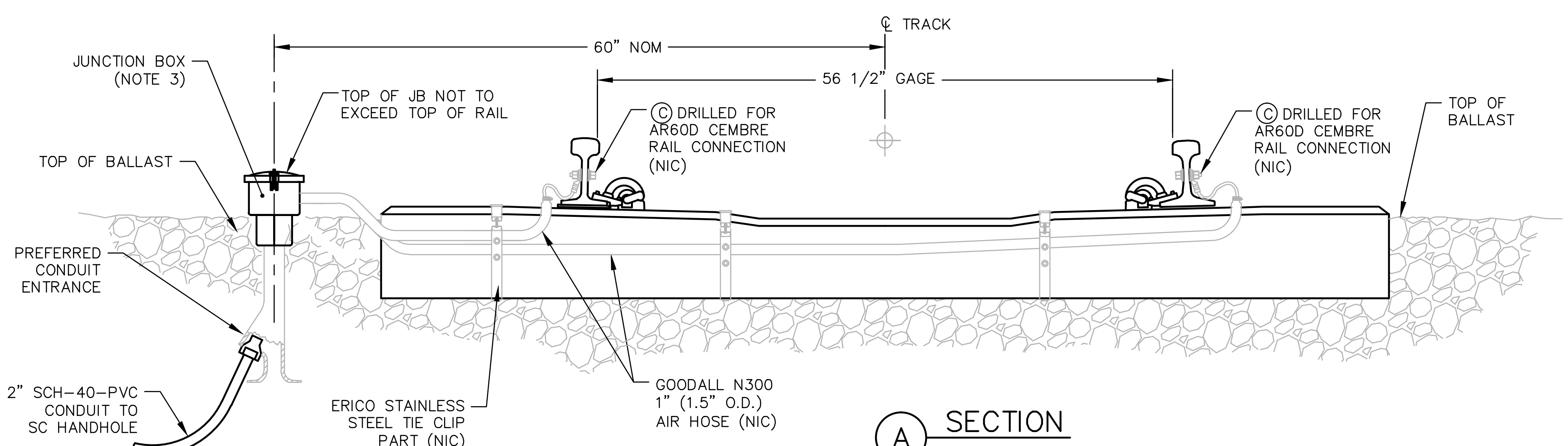
C SECTION (NIC)
SCALE: NTS



B DEVICE DETAIL (NIC)
SCALE: NTS



1 PLAN VIEW
SCALE: NTS



A SECTION
SCALE: NTS

NOTES:

1. USE THIS DETAIL FOR BALLASTED TRACK BOND INSTALLATIONS WHERE DOUBLE RAIL TRACK CIRCUITS ARE ADJACENT TO SINGLE RAIL AC TRACK CIRCUITS.
2. PLACE PEDESTAL MOUNTED JUNCTION BOX ON THE FIELD SIDE OF TRACK FOR COORDINATION WITH DUCT BANK OR THE NEAREST HANDHOLE LOCATION.
3. JUNCTION BOXES FOR BALLASTED TRACK SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE WESTERN CULLEN HAYES 1155 OR APPROVED EQUAL.
4. NUTS, BOLTS AND WASHERS USED FOR CONNECTIONS TO THE IMPEDANCE BOND LUGS SHALL BE BRASS. (NIC)
5. CABLES SHALL BE ALL "ROPELAY". TRACTION POWER CABLES SHALL BE INSULATED WITH RATING OF 2KV. (NIC)
6. PLACEMENT OF 500 KCMIL CABLES SHALL NOT INTERFERE WITH NORMAL TRACK TAMPING OPERATION.
7. SUFFICIENT SLACK SHALL BE PROVIDED IN CROSS BONDING CABLES TO PREVENT STRESS AT CONNECTIONS AND "BIRD CAGING", TWISTING OR OTHERWISE DAMAGING THE CABLES.
8. LOCAL CONDUIT SHALL BE NON-METALLIC, U.V. RESISTANT, LIQUID-TIGHT CONDUIT, BLACK OR GRAY PVC JACKET (UV RESISTANT) WITH REINFORCED NYLON BRAID WITH STRAIN RELIEF FITTING WHERE POSSIBLE OR AIR HOSE WITH NIPPLE CONNECTION TO JUNCTION BOX. (NIC)

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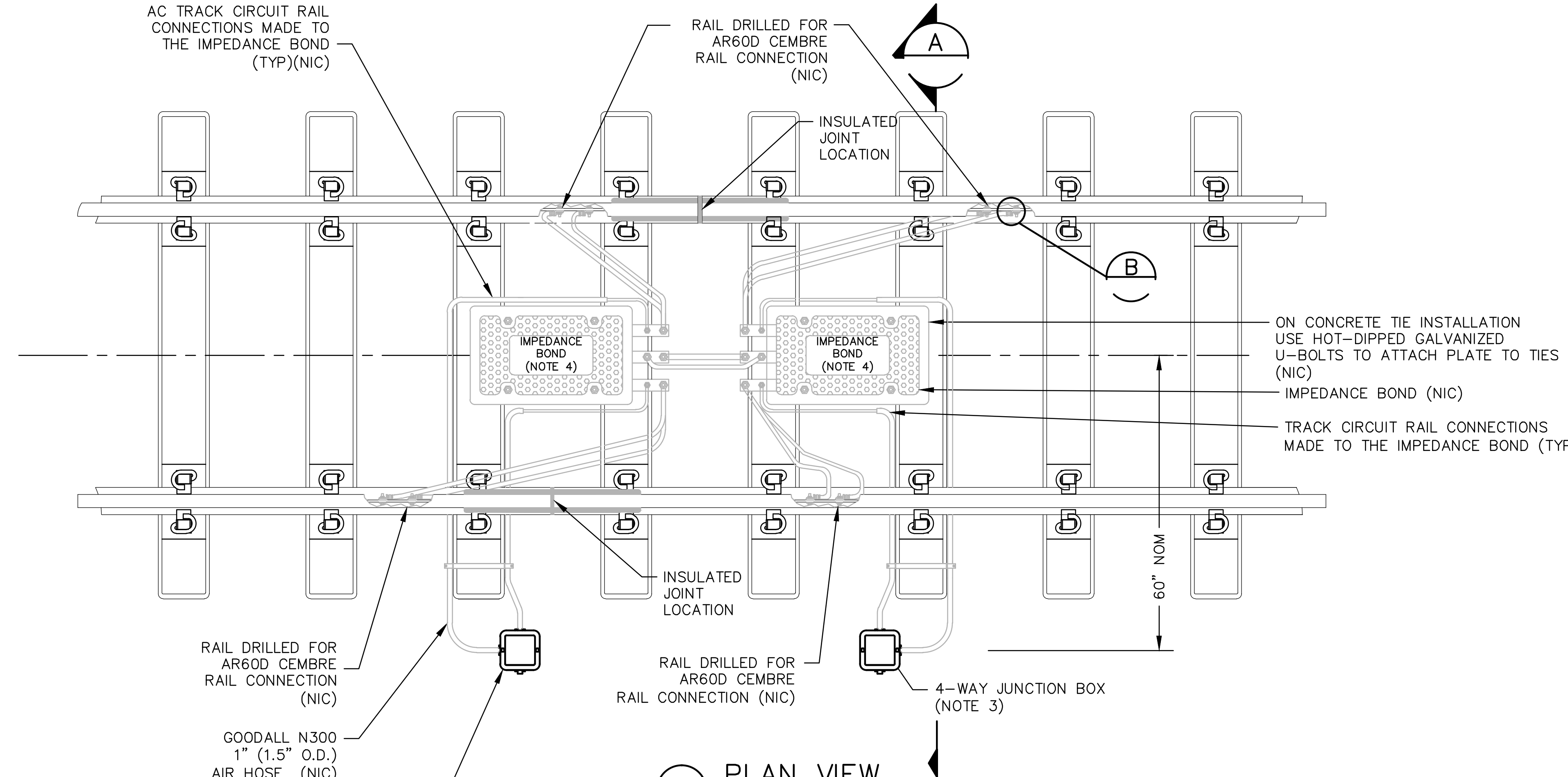
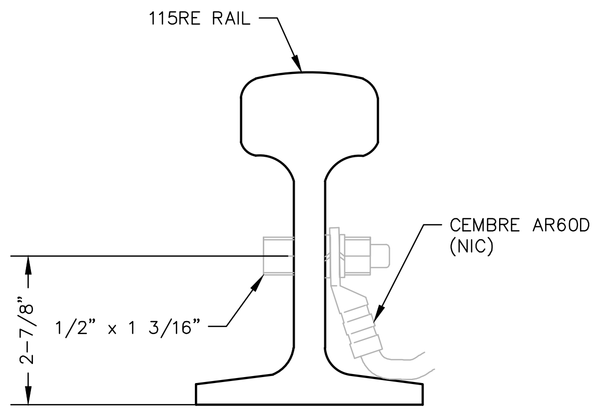
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SINGLE IMPEDANCE BOND
BALLASTED TRACK INSTALLATION

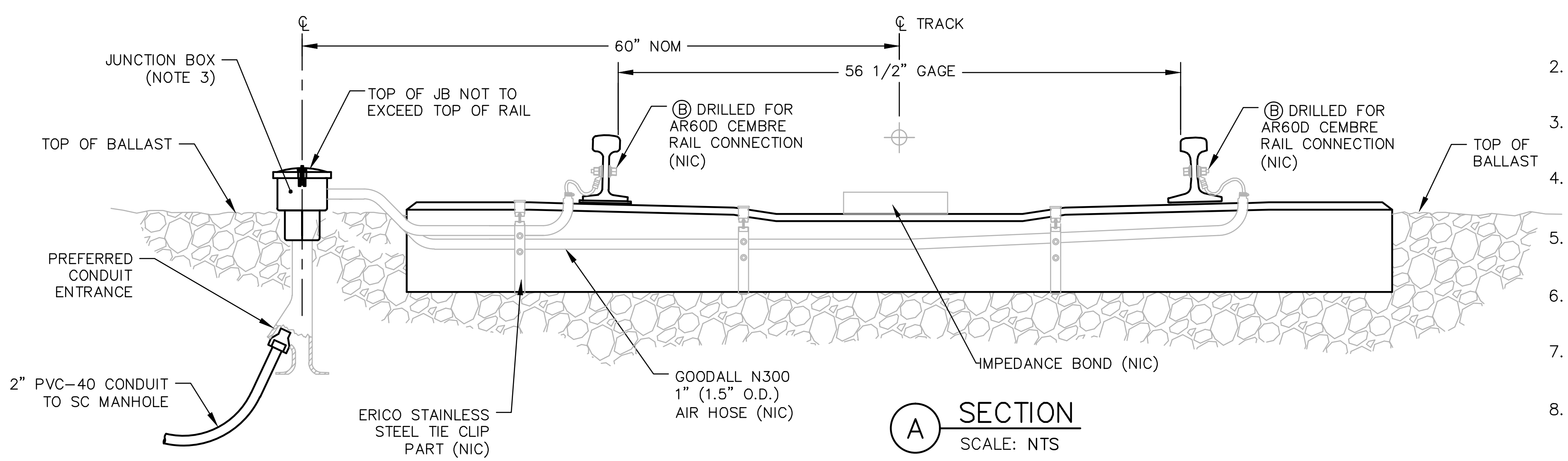
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-017



1 PLAN VIEW
SCALE: NTS



B SECTION (NIC)
SCALE: NTS



A SECTION
SCALE: NTS

NOTES:

1. USE THIS DETAIL FOR BALLASTED TRACK BOND INSTALLATIONS WHERE DOUBLE RAIL TRACK CIRCUITS ARE ADJACENT TO DOUBLE RAIL TRACK CIRCUITS SEPARATED BY DOUBLE, STAGGERED INSULATED JOINTS.
2. PLACE PEDESTAL MOUNTED JUNCTION BOXS ON THE FIELD SIDE OF TRACK FOR COORDINATION WITH DUCT BANK OR THE NEAREST SWE HH LOCATION.
3. PEDESTAL MOUNTED JUNCTION BOX SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE WESTERN CULLEN HAYES 1155 OR APPROVED EQUAL.
4. NUTS, BOLTS AND WASHERS USED FOR CONNECTIONS TO THE IMPEDANCE BOND LUGS SHALL BE BRASS. (NIC)
5. CABLES SHALL BE ALL "ROPELAY". TRACTION POWER CABLES SHALL BE INSULATED WITH RATING OF 2KV. (NIC)
6. PLACEMENT OF 500 KCMIL CABLES SHALL NOT INTERFERE WITH NORMAL TRACK TAMPING OPERATION.
7. SUFFICIENT SLACK SHALL BE PROVIDED IN CROSS BONDING CABLES TO PREVENT STRESS AT CONNECTIONS AND "BIRD CAGING", TWISTING OR OTHERWISE DAMAGING THE CABLES.
8. LOCAL CONDUIT SHALL BE NON-METALLIC, U.V. RESISTANT, LIQUID-TIGHT CONDUIT, BLACK OR GRAY PVC JACKET (UV RESISTANT) WITH REINFORCED NYLON BRAID WITH STRAIN RELIEF FITTING WHERE POSSIBLE. (NIC)

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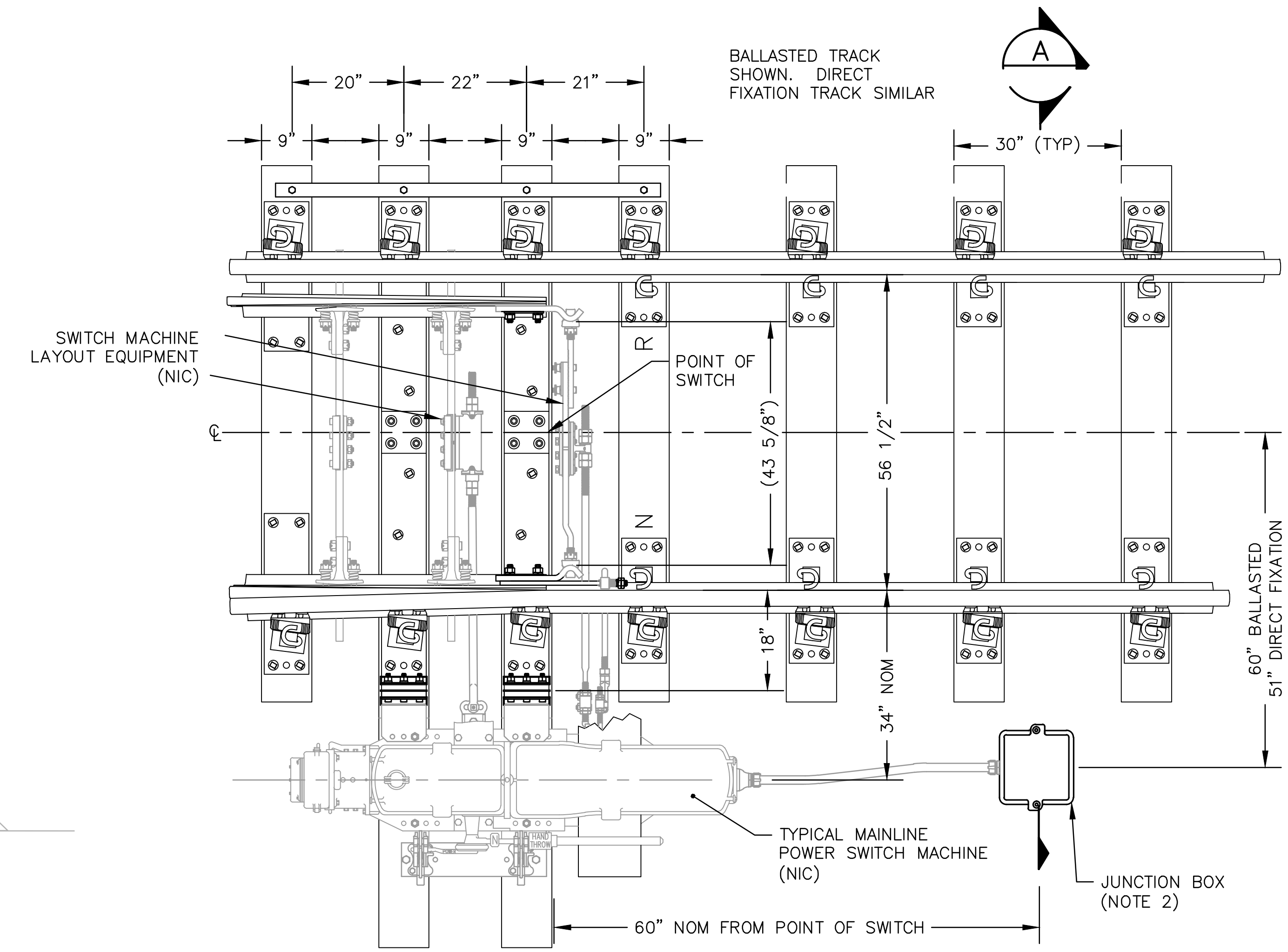
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
DOUBLE IMPEDANCE BOND
BALLASTED TRACK INSTALLATION

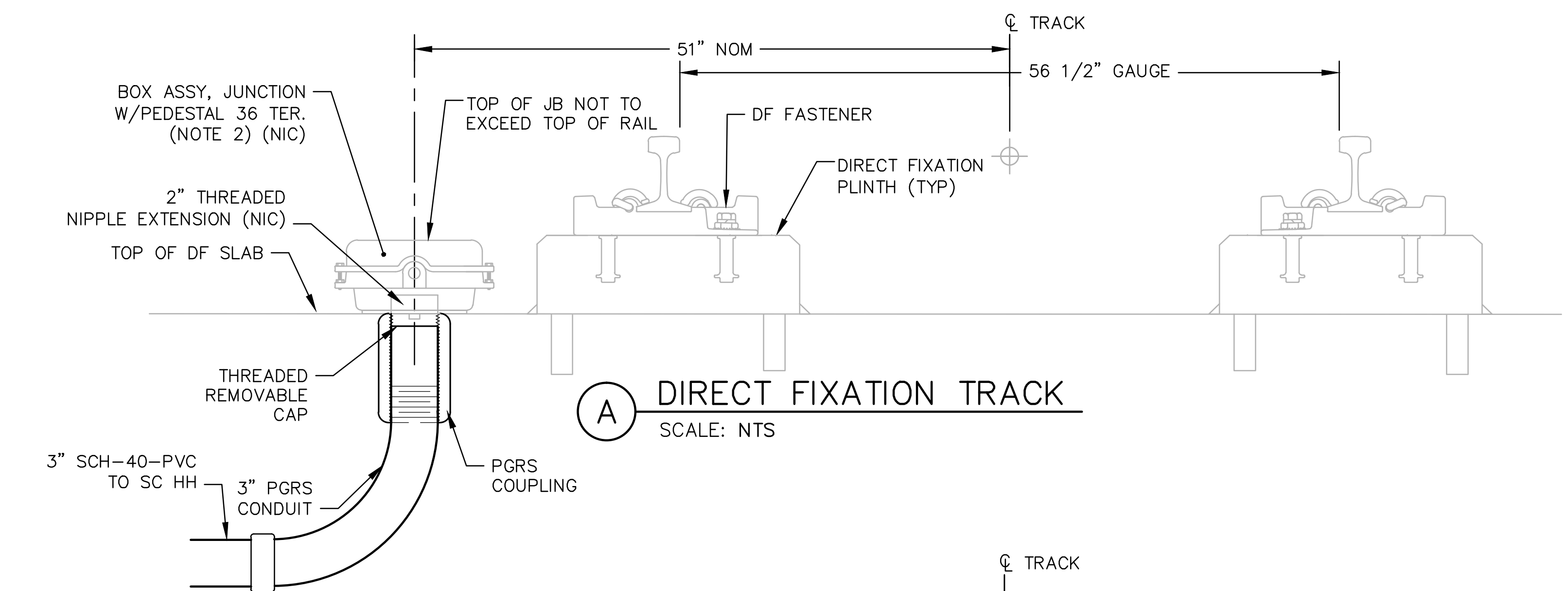
DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-018

SHEET 366 OF 464

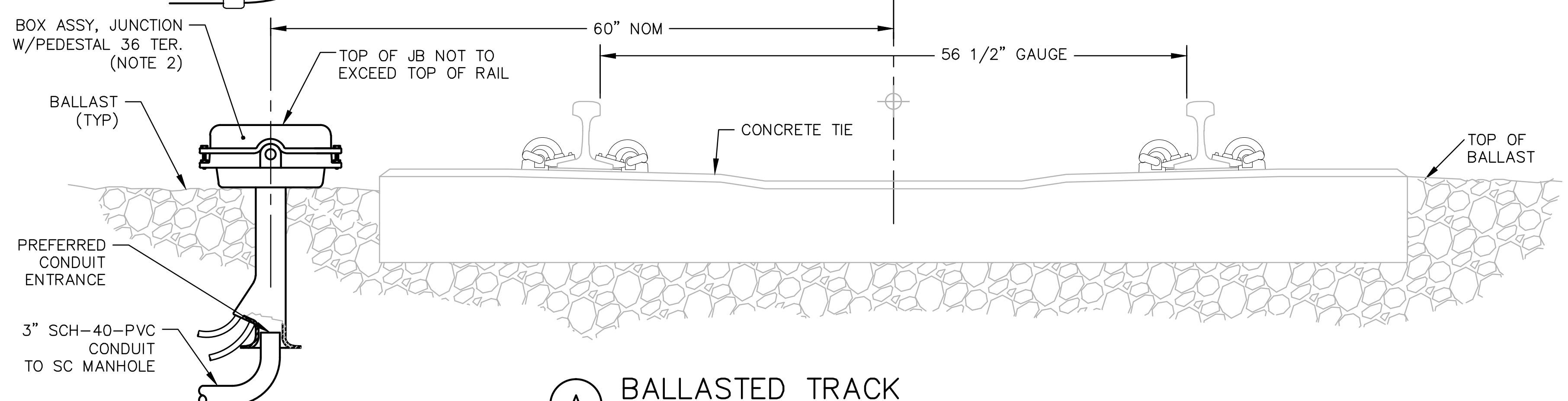
Jan. 15 2016 11:14 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-018.dwg By: woodsaj



1 PLAN VIEW
SCALE: NTS



A DIRECT FIXATION TRACK
SCALE: NTS



A BALLASTED TRACK
SCALE: NTS

NOTES:

1. SWITCH MACHINE SHOWN FOR REFERENCE ONLY. FOR BALLASTED TRACK ONLY PEDESTAL JUNCTION BOX AND RELATED CONDUIT EQUIPMENT IS INCLUDED IN THS CONTRACT. FOR DF TRACK ONLY CONDUIT STUB-UP IS INCLUDED IN THIS CONTRACT.

2. PLACE PEDESTAL JUNCTION BOX OR STUB-UP ON THE SWITCH MACHINE SIDE OF THE RAILS FOR COORDINATION WITH THE SWITCH MACHINE AND RELATED EQUIPMENT.

3. JUNCTION BOXES FOR BALLASTED AND DIRECT FIXATION TRACK SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE ALSTOM A91-230 OR APPROVED EQUAL.

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AECOM WSP PARSONS BRINCKERHOFF

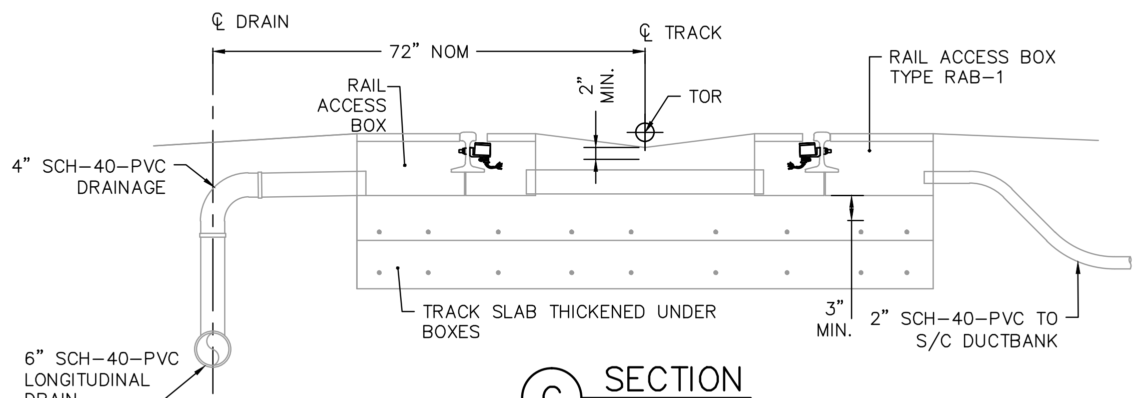
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

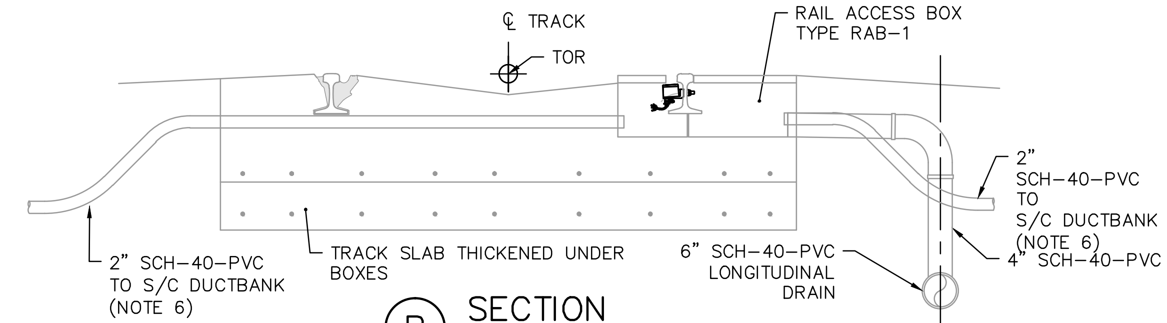
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
MAINLINE SWITCH MACHINE - DIRECT FIXATION&BALLASTED TRACK INSTALLATION

DISCIPLINE: SYSTEMS

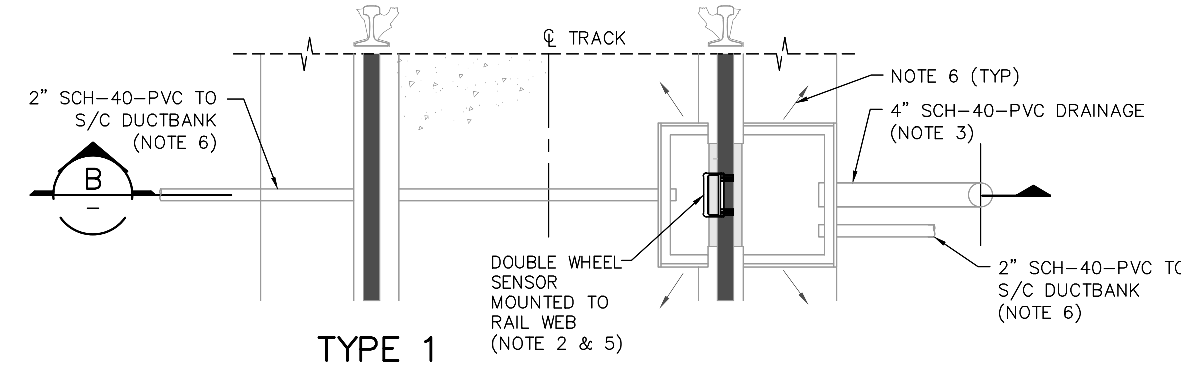
SHEET NAME: E0-SYS-SWE-DTL-SIG-019



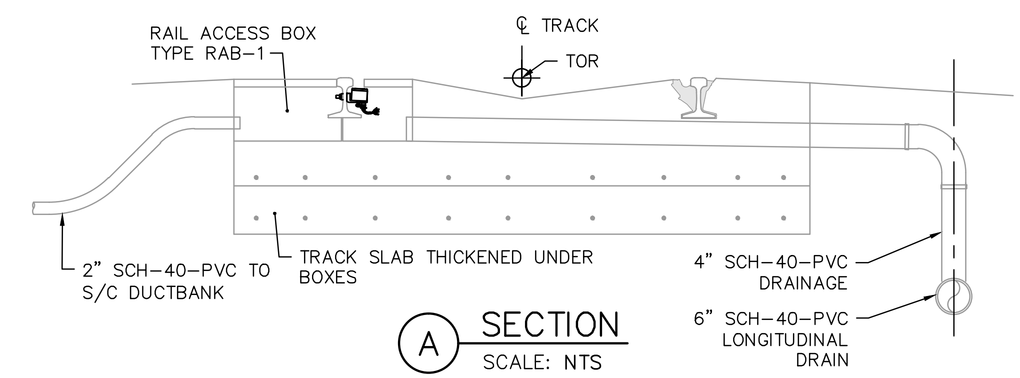
C SECTION
SCALE: NTS



B SECTION
SCALE: NTS



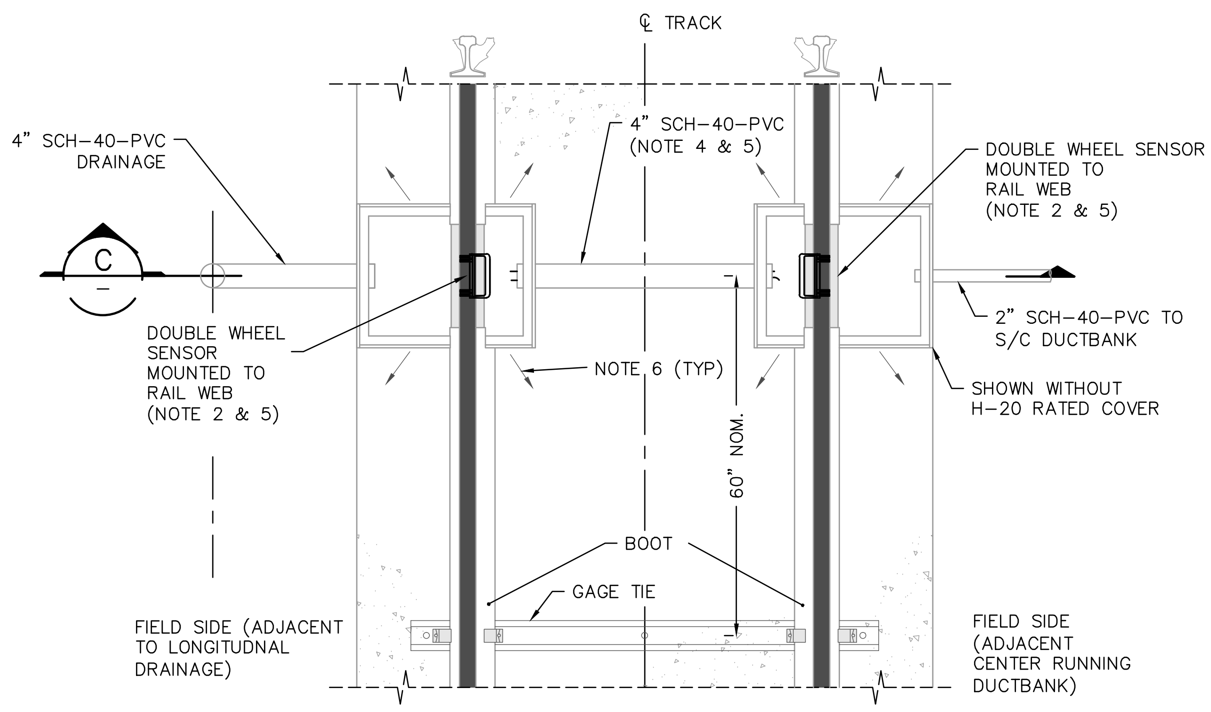
2 TYPE 1
SIGNAL CONNECTION, SINGLE RAIL
SCALE: NTS



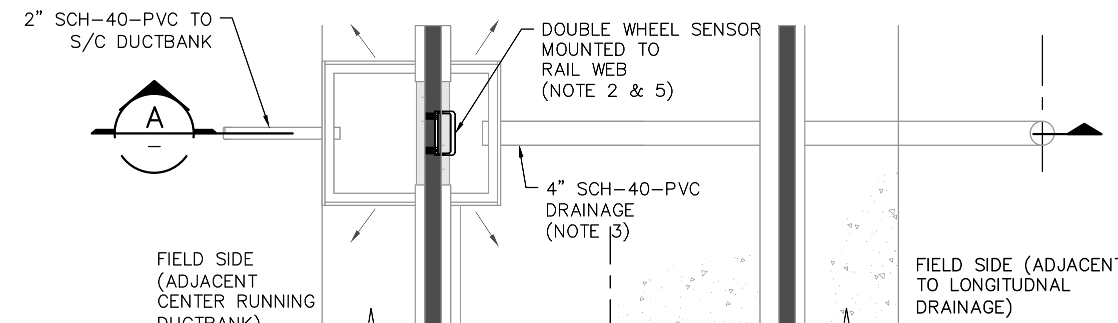
A SECTION
SCALE: NTS

NOTES:

1. FOR RAIL ACCESS BOX TYPE RAB-1 SEE SHEET E0-SYS-SWE-DTL-SIG-023.
2. ALL NECESSARY DRILLING TO THE RAIL WEB MUST BE PERFORMED PRIOR TO RAIL ACCESS BOX INSTALLATION. FOR DOUBLE WHEEL SENSOR INSTALLATIONS, DRILL THE RAIL USING THE DRILLING TEMPLATE DESIGNATED BY THE EQUIPMENT MANUFACTURER. FOR SIGNAL BOND CONNECTIONS, USE A DRILLING TEMPLATE TO INSTALL CEMBRE AR-61 BUSHINGS, CENTERED AT THE STATION LISTED.
3. CENTER RAIL ACCESS BOX AT THE STATION LISTED FOR THE ASSOCIATED DEVICES, CENTER DRAINAGE FOR THE RAIL ACCESS BOX AT THAT STATION.
4. TAPER CONCRETE FROM THE EDGE OF THE RAIL ACCESS BOX TO CREATE SURFACE DRAINAGE AWAY FROM THE BOX, TO PROTECT THE EDGES OF THE BOX AND TO PRESERVE THE DRAINAGE INVERT BETWEEN THE RAILS.
5. THIS INSTALLATION IS TYPICAL FOR RAIL MOUNTED SIGNAL DEVICES, INCLUDING SIGNAL BONDS AND WHEEL SENSOR SYSTEMS.
6. TWO CONDUITS ARE SHOWN INTERFACING WITH THIS BOX, BUT TYPICALLY ONLY ONE WILL BE REQUIRED TO INTERFACE WITH THE SYSTEMS DUCTBANK.



3 TYPE 1
SIGNAL CONNECTION, BOTH RAILS
SCALE: NTS



1 TYPE 1
SIGNAL CONNECTION, SINGLE RAIL
SCALE: NTS

Jan. 15 2016 11:15 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-020.dwg By: woodsaj

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM | WSP | PARSONS BRINCKERHOFF | METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
WHEEL SENSOR ISOLATION
EMBEDDED TRACK INSTALLATION

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-020

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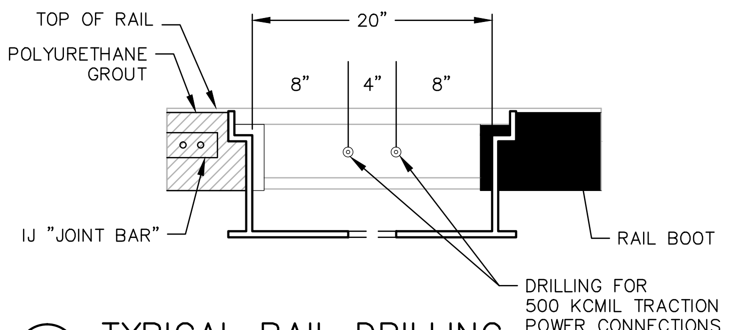
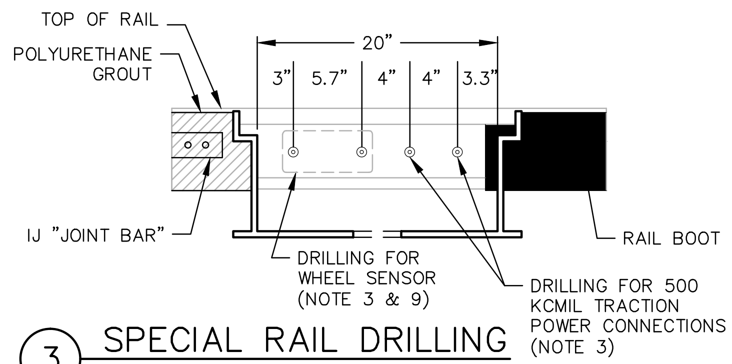
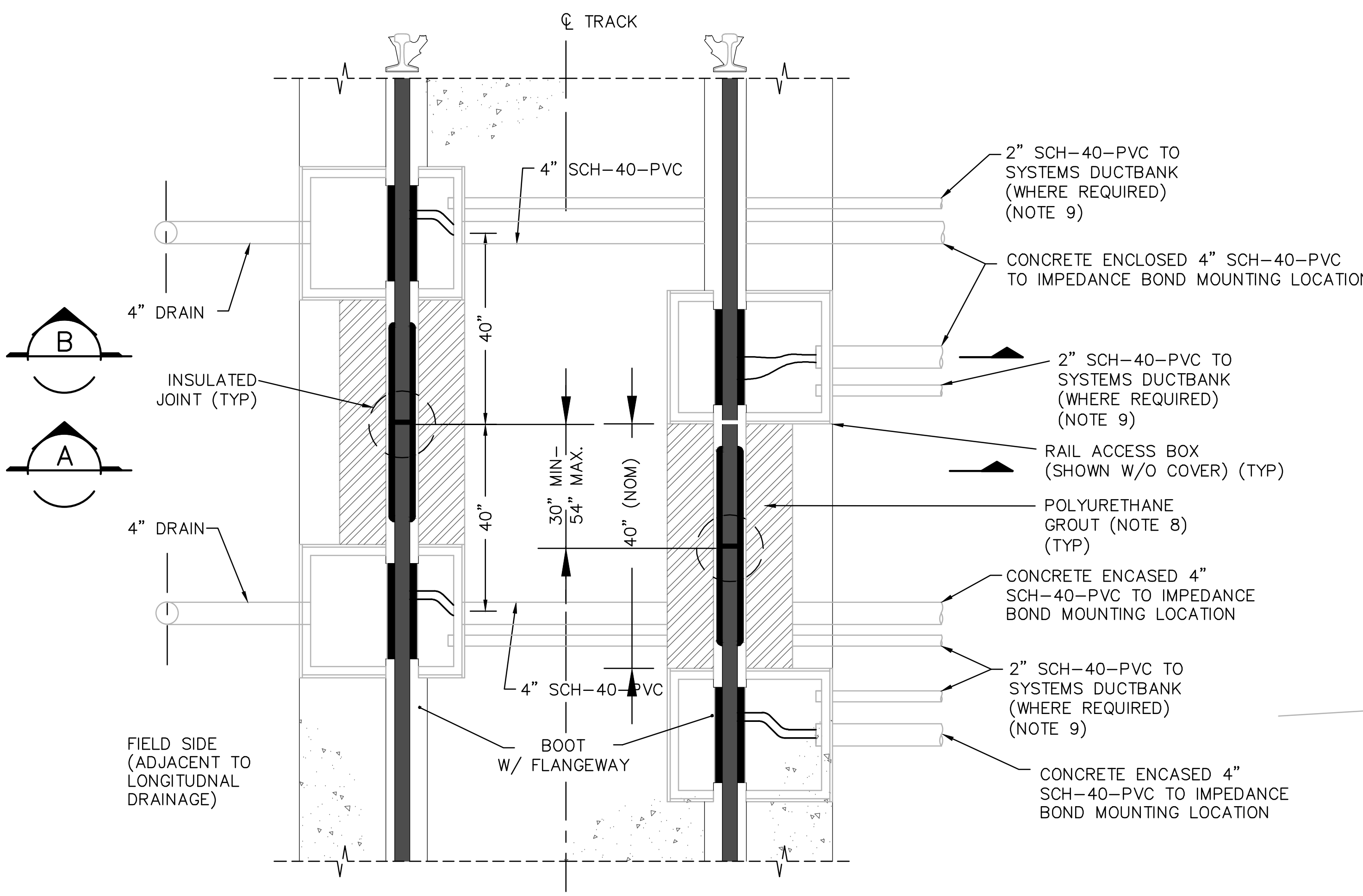


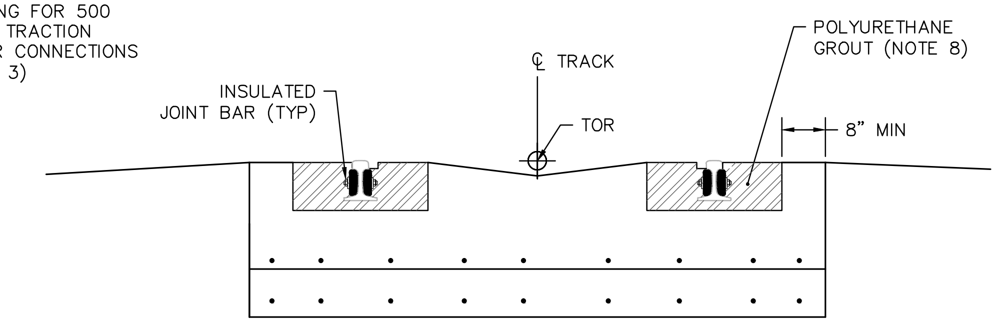
② TYPICAL RAIL DRILLING
SCALE: NTS



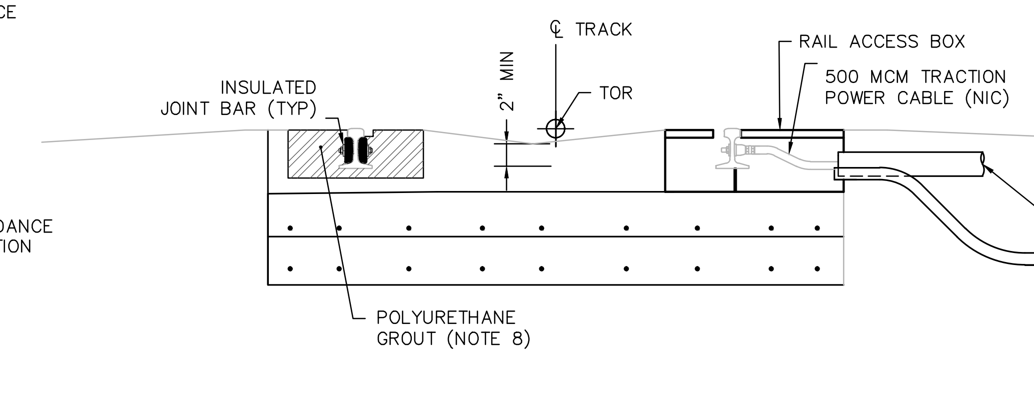
③ SPECIAL RAIL DRILLING
SCALE: NTS



① IMPEDANCE BOND IN TYPE 1 EMBEDDED TRACK
SCALE: NTS



Ⓐ SECTION
SCALE: NTS



Ⓑ SECTION
SCALE: NTS

NOTES:

1. FOR RAIL ACCESS BOX SEE SHEET E0-SYS-SWE-DTL-SIG-023.
2. RAB AND DEVICES ARRANGED TO PROVIDE A 36" INSULATED JOINT BAR 2 INCHES OF ROOM FROM END OF BAR TO THE EDGE OF THE BOX. THE POLYURETHANE GROUT EXTENDS TO THE INSIDE EDGE OF THE RAB. INSTALL CONCRETE ON THE OUTSIDE WITH A MINIMUM CONCRETE WIDTH OF 8 INCHES.
3. ALL NECESSARY DRILLING OF THE RAIL WEB MUST BE PERFORMED PRIOR TO RAIL ACCESS BOX INSTALLATION. DRILL THE RAIL USING THE DRILLING TEMPLATE DESIGNATED BY THE EQUIPMENT MANUFACTURER, AT THE LOCATIONS INDICATED.
4. CONDUITS WILL EXTEND TO THE IMPEDANCE BOND MOUNTING ASSEMBLY DETAILED ON DRAWING E0-SYS-SWE-DTL-SIG-022.
5. TAPER CONCRETE FROM THE EDGE OF THE RAIL ACCESS BOX TO CREATE SURFACE DRAINAGE AWAY FROM THE BOX, TO PROTECT THE EDGES OF THE BOX AND TO PRESERVE THE DRAINAGE INVERT BETWEEN THE RAILS.
6. CABLES FOR TRACTION POWER AND SIGNAL CONNECTIONS WILL BE INSTALLED BY SYSTEMS CONTRACTOR.
7. ADJUST THE CONDUITS INSTALLED FOR THIS INSTALLATION TO COORDINATE WITH THE IMPEDANCE BOND MOUNTING LOCATION AS REQUIRED.
8. FILL THE CHANNEL BETWEEN THE RAIL ACCESS BOXES WITH POLYURETHANE GROUT OF A TYPE APPROVED FOR THIS PURPOSE BY THE CAR. CARE SHALL BE TAKEN TO SEAL THE RAB AGAINST GROUT RUNNING INTO THE BOX, AND CARE MUST BE TAKEN TO FORM A FLANGEWAY IN THE GROUT SURFACE.
9. IMPEDANCE BOND RAIL ACCESS BOXES AT ROYALSTON STATION REQUIRE PROVISIONS FOR SINGLE WHEEL SENSOR INSTALLATION. SEE DETAIL 3 FOR SPECIAL RAIL RAIL DRILLING. PROVIDE 2" SCH-40-PVC TO SIG/COM DUCTBANK WHERE REQUIRED.

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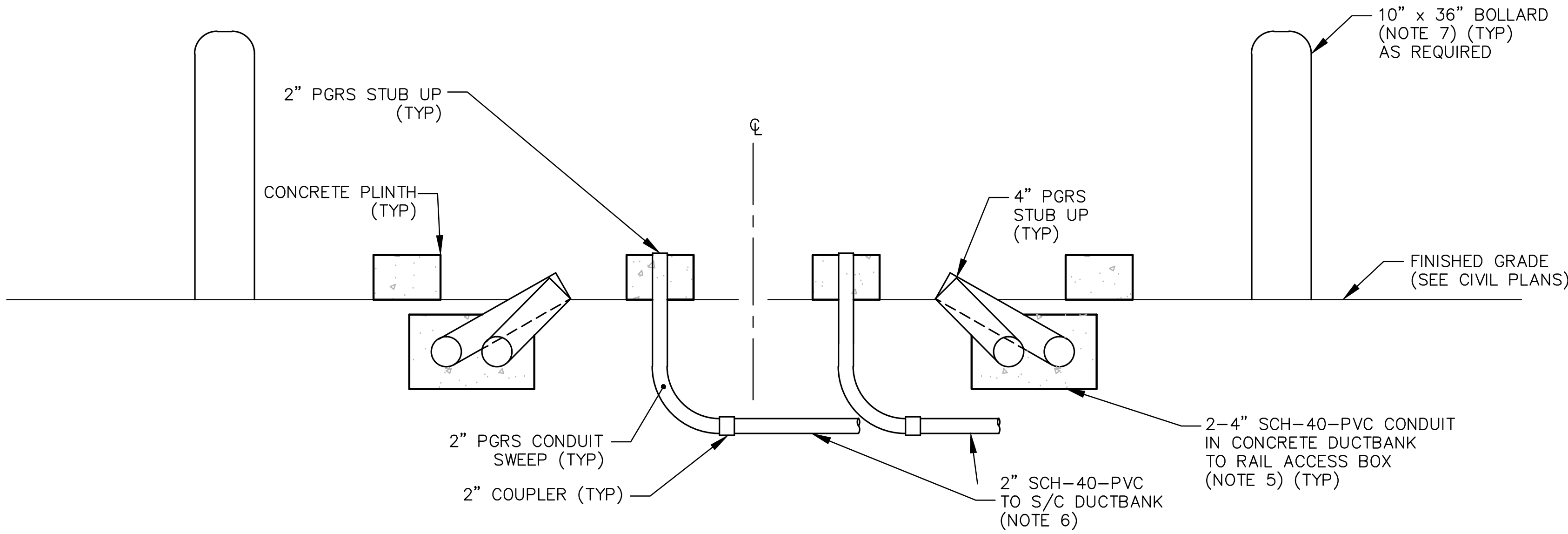
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

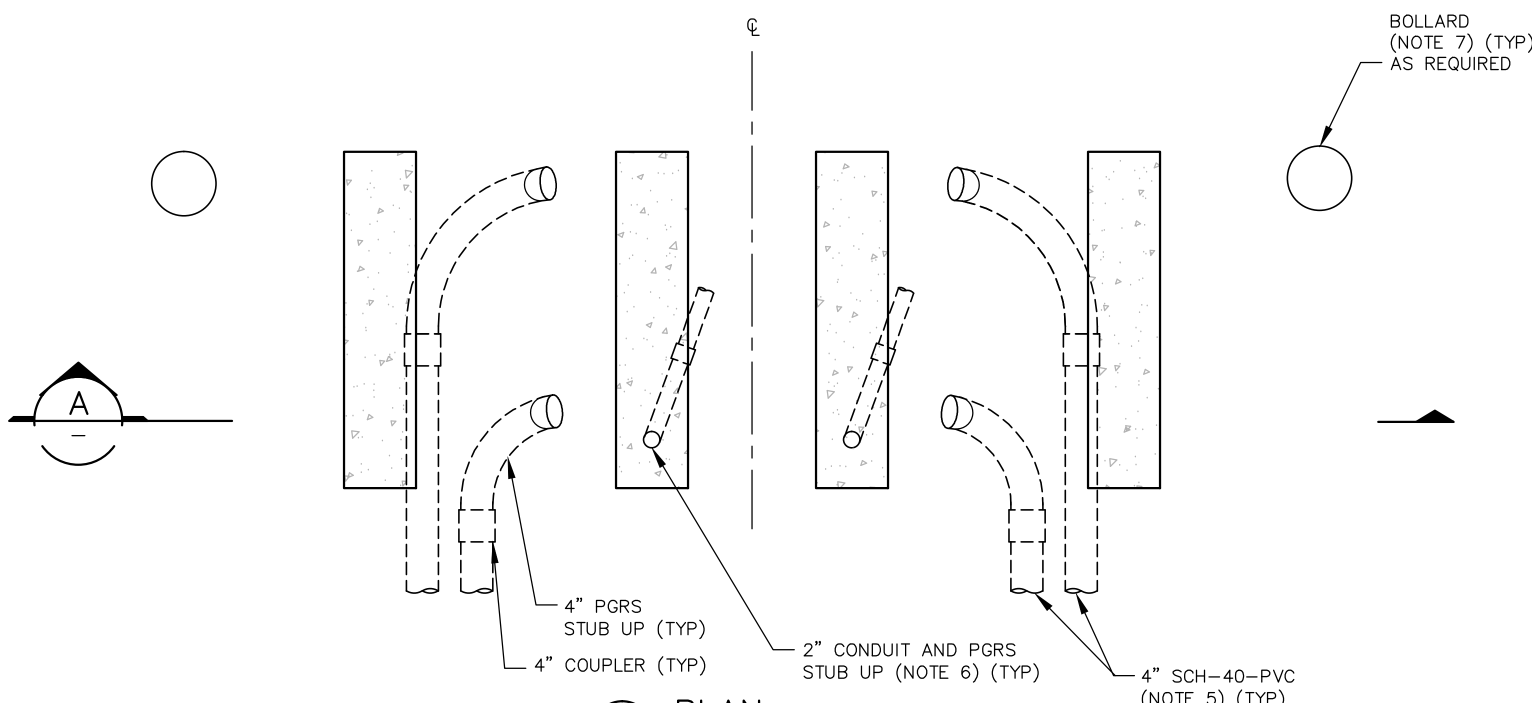
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
IMPEDANCE BOND ISOLATION
EMBEDDED TRACK INSTALLATION

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-021



A SECTION
SCALE: NTS



1 PLAN
SCALE: NTS

NOTES:

1. CONCRETE PLINTHS ARE ARRANGED TO ALLOW THE MOUNTING OF STANDARD RAIL IMPEDANCE BONDS SIMILAR TO STANDARD TIE MOUNTED INSTALLATIONS.
2. THE 6" PLINTH HEIGHT ACCOMODATES A TYPICAL IMPEDANCE BOND DEPTH AND AN ADDITIONAL 2" OF CLEARANCE BELOW.
3. CONSTRUCTION TOLERANCES FOR CONCRETE PLINTH AND PGRS STUB UP DIMENSIONS ARE +/- 1/4".
4. SUBMIT INSTALLATION DETAILS AND PROCEDURES, INCLUDING REINFORCING, ATTACHMENT OF THE PLINTHS TO THE CONCRETE PAVEMENT, AND FINISHING OF THE PLINTH CONCRETE.
5. CONCRETE ENCASED 4" CONDUIT AND PGRS STUB UP FOR NEGATIVE RAIL CONNECTION FROM THE RAIL ACCESS BOX TO THE IMPEDANCE BOND MOUNTED ON THE PLINTHS.
6. 2" PGRS CONDUIT STUB UP FOR TRACK CIRCUIT JUNCTION BOX. CONTINUE 2" CONDUIT TO S/C DUCTBANK AS SHOWN ON THE SWE PLANS.
7. BOLLARD QUANTITY AND PLACEMENT MAY BE ADJUSTED BASED UPON SITE CONDITIONS. SUBMIT SPECIFIC LAYOUT PLANS FOR EACH INSTALLATION.
8. ADJUST THE CONDUITS TO SWEEP AT AN ANGLE THAT PROVIDES A LARGE RADIUS SWEEP, PROVIDES EASY CABLE INTERFACE WITH THE BOND CONNECTIONS AND PROVIDES POSITIVE DRAINAGE BACK TO THE RAIL ACCESS BOX OR HANDHOLE.
9. ALL CONDUIT STUB UPS SHALL TERMINATE WITH THREADED PGRS COUPLERS AND THREADED REMOVABLE CAPS.

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90% SUBMISSION - 01/22/2016

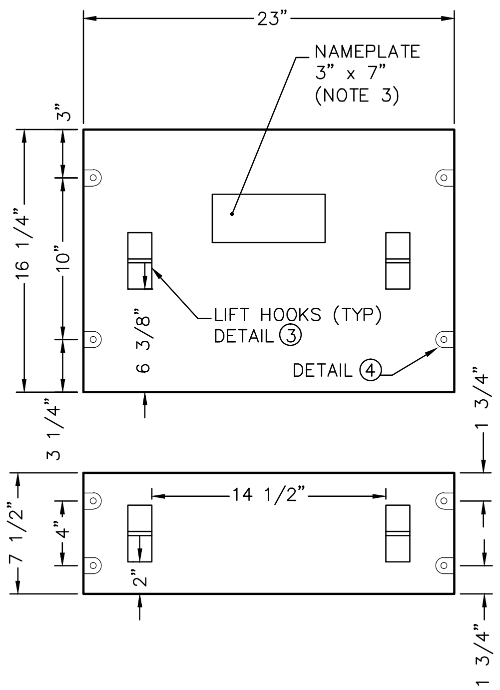
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
IMPEDANCE BOND - EMBEDDED TRACK
PLINTH AND CONDUIT INSTALLATION

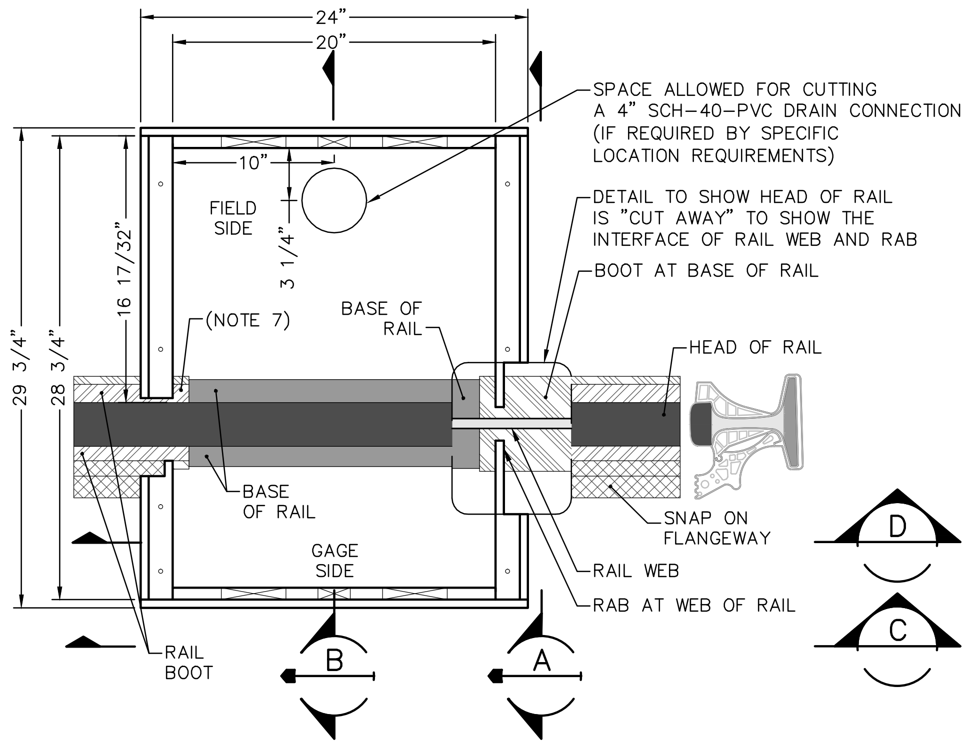
DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-022

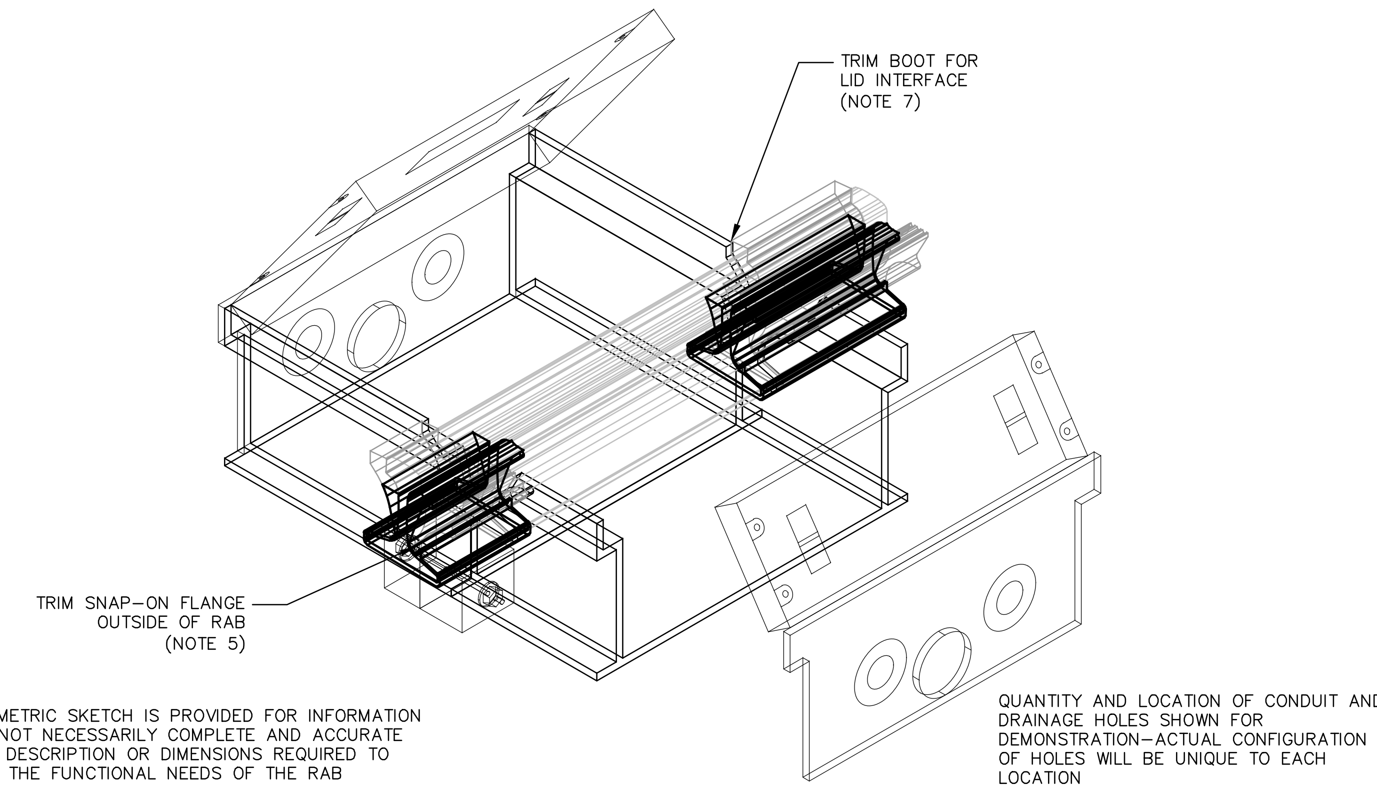
SHEET 370 OF 464



2 PLAN VIEW- LID
SCALE: NTS

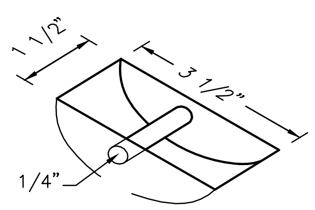


1 PLAN VIEW- WITHOUT LID
SCALE: NTS

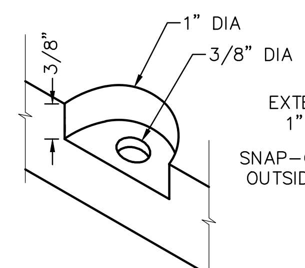


THE ISOMETRIC SKETCH IS PROVIDED FOR INFORMATION AND IS NOT NECESSARILY COMPLETE AND ACCURATE IN THE DESCRIPTION OR DIMENSIONS REQUIRED TO ACHIEVE THE FUNCTIONAL NEEDS OF THE RAB

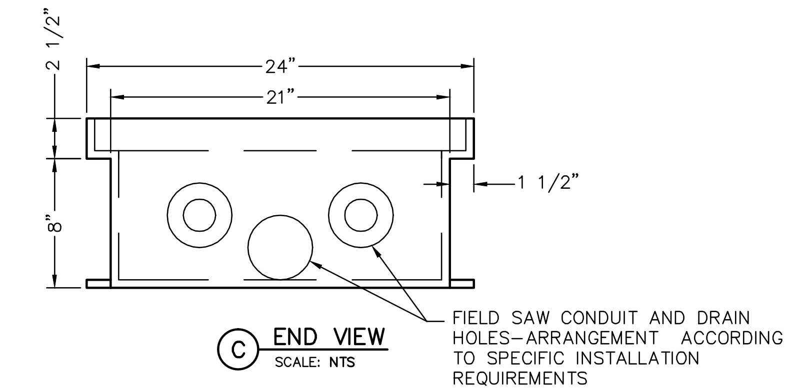
QUANTITY AND LOCATION OF CONDUIT AND DRAINAGE HOLES SHOWN FOR DEMONSTRATION-ACTUAL CONFIGURATION OF HOLES WILL BE UNIQUE TO EACH LOCATION



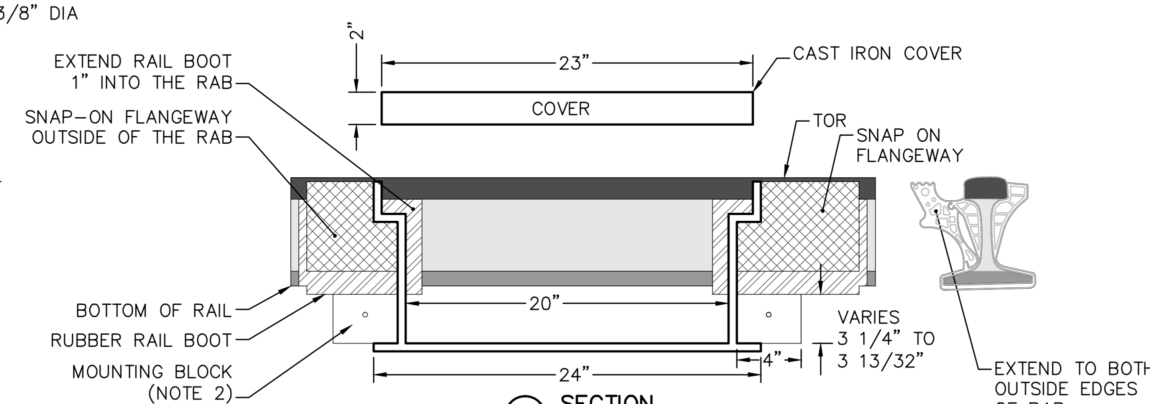
3 DETAIL
SCALE: NTS



4 DETAIL
SCALE: NTS



C END VIEW
SCALE: NTS



D SECTION
SCALE: NTS

NOTES:

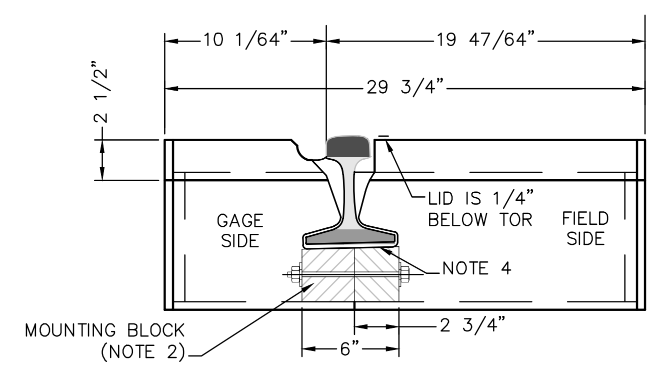
1. USE THIS RAIL ACCESS BOX (RAB) FOR ALL EMBEDDED RAIL CONNECTIONS IN EMBEDDED TRACK.
2. ADD MOUNTING BLOCK TO RAB TO ACCEPT CARRIAGE BOLT, ALLOWING PERMANENT, SNUG FIT FOR BOX TO THE BOOTED RAIL WITHOUT THE FLANGE PIECE
3. RAIL ACCESS BOXES SHALL BE ENGRAVED AS FOLLOWS:

   SIGNAL AND WHEEL SENSOR BOXES SHALL READ: "METRO TRANSIT" "S/C"

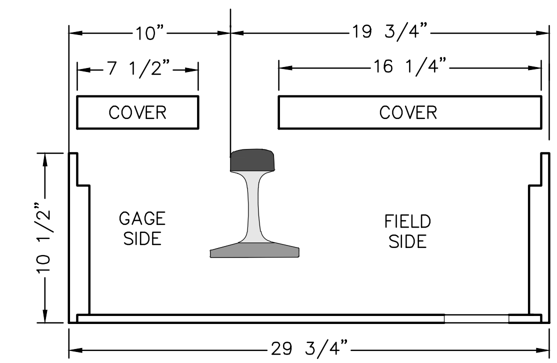
   NEGATIVE RETURN AND RAIL CROSS BOND BOXES SHALL READ: "METRO TRANSIT" "TE"

   NEGATIVE RETURN COMBINED WITH WHEEL SENSOR BOXES SHALL READ: "METRO TRANSIT" "S/C"

   RAIL LUBRICATOR BOXES SHALL READ: "METRO TRANSIT" "S/C"
4. MATCH BOX PROFILE TO 1/40 RAIL CANT FOR 115# RAIL.
5. TERMINATE THE SNAP-ON FLANGE AT EXTERIOR SURFACE OF BOX, AND CONTINUE THE BOOT TO EXTEND 1" INTO THE RAIL ACCESS BOX. SEAL BOOT TO THE RAB WITH NON-SHRINKING POLYETHELENE SEALANT.
6. BOX WILL BE CONSTRUCTED FROM NON-CONDUCTIVE, NON-CORROSIVE MATERIAL & WILL BE SAWED & DRILLED IN THE FIELD OR FACTORY AS NECESSARY
7. TRIM RAIL BOOT NEAR THE HEAD OF THE RAIL TO ALLOW RAB LID TO FIT INTO THE BOX AND TO CLOSE THE GAP BETWEEN LID AND RAIL- FIELD ADJUSTMENT MAY BE REQUIRED FOR THE TRIMMING OF THE BOOT.



A SIDE VIEW
SCALE: NTS



B SECTION
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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PARSONS BRINCKERHOFF
90% SUBMISSION - 01/22/2016

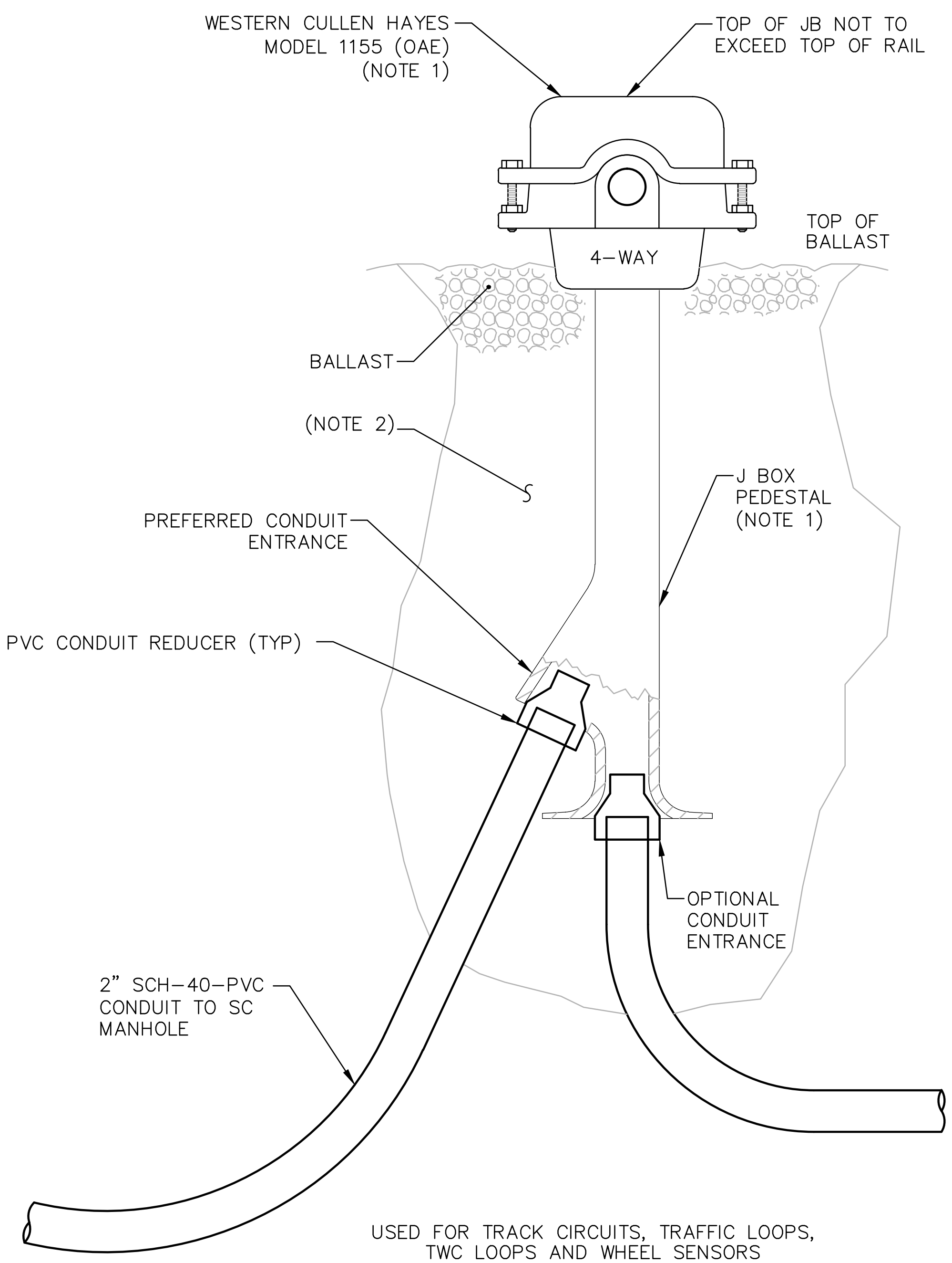
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL WAYSIDE SIGNAL DETAILS
RAIL ACCESS BOX

DISCIPLINE: SYSTEMS
SHEET NAME: E0-SYS-SWE-DTL-SIG-023

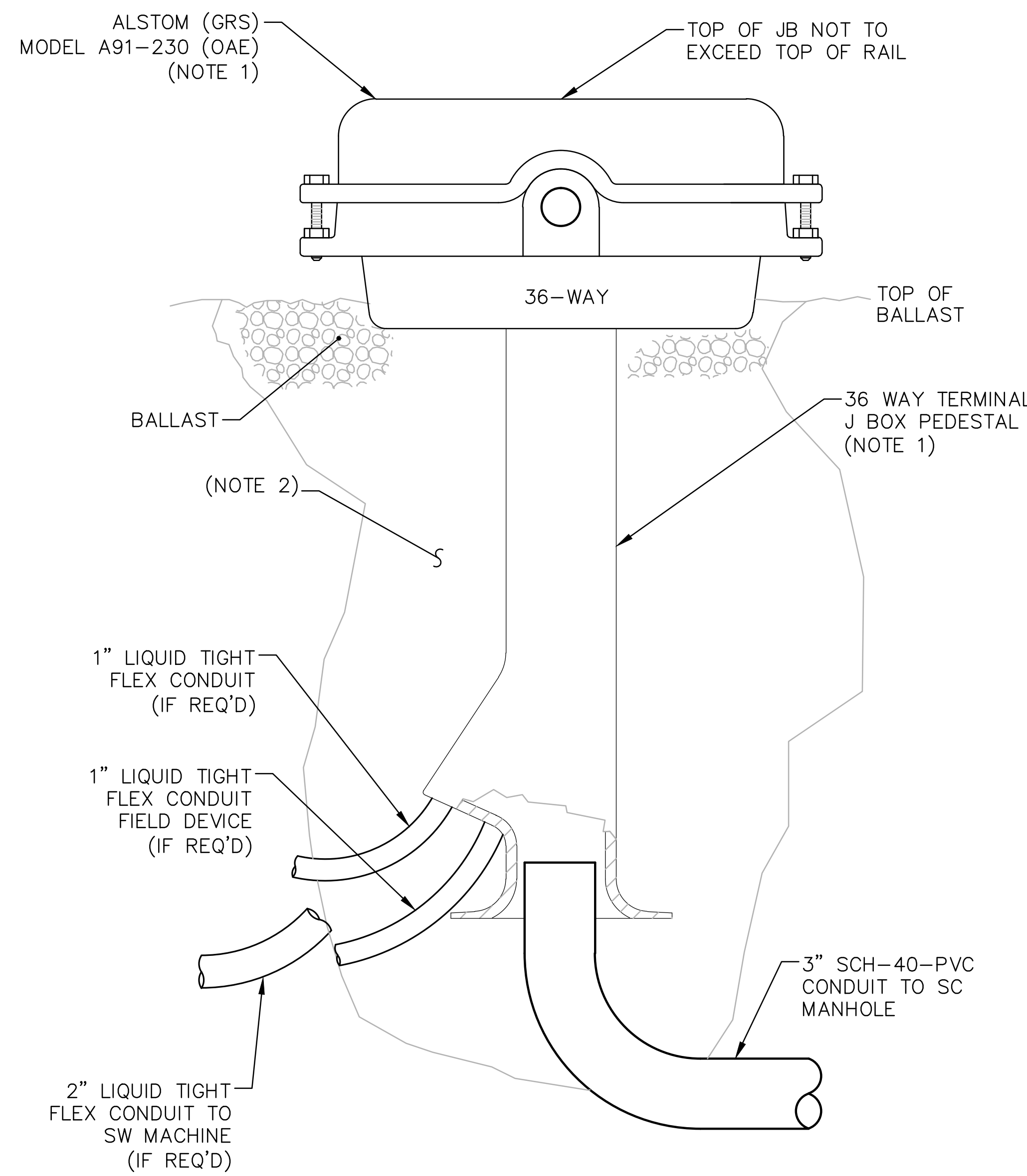
SHEET 371 OF 464

Jan. 15 2016 11:17 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-023.dwg By: woodsaj



USED FOR TRACK CIRCUITS, TRAFFIC LOOPS, TWC LOOPS AND WHEEL SENSORS

1 4-WAY BOOTLEG JUNCTION BOX DETAIL
SCALE: NTS



USED FOR MAINLINE SWITCH MACHINES

2 36-WAY BOOTLEG JUNCTION BOX DETAIL
SCALE: NTS

NOTES:

1. EQUIPMENT DETAILS SHALL BE SUBMITTED FOR APPROVAL
2. EXCAVATION FOR BOOTLEG AND JUNCTION BOX INSTALLATION WILL REQUIRE REMOVAL OF BALLAST, SUB-BALLAST AND NATIVE SOIL OR BACKFILL MATERIALS. THESE MATERIALS MUST BE KEPT SEPARATED AND NOT MIXED TOGETHER WHEN BACKFILLING
3. THE CONTRACTOR SHALL EQUIP EACH JUNCTION BOX PROVIDED WITH A COMPLETE SET OF GOLD NUT TEST LINKS AND APPROPRIATE STRAPS FOR ALL TERMINALS.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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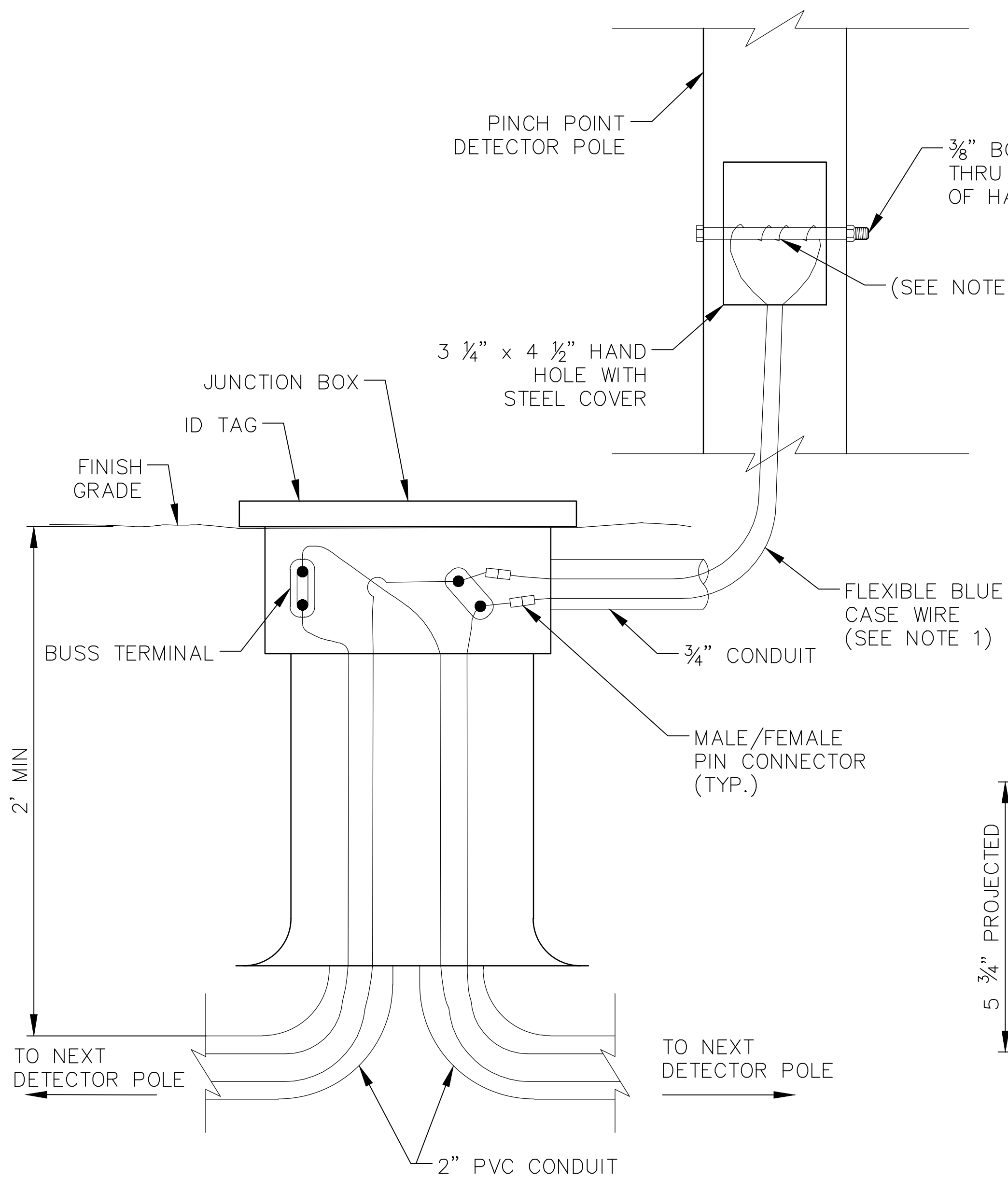
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
BOOTLEG JUNCTION BOX INSTALLATION

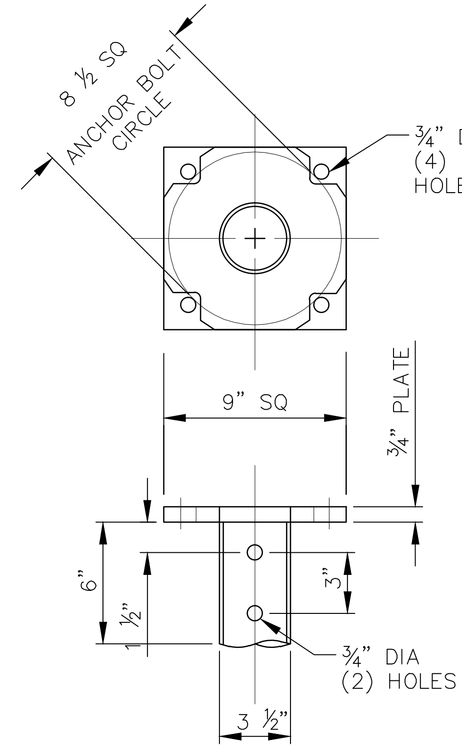
DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-024



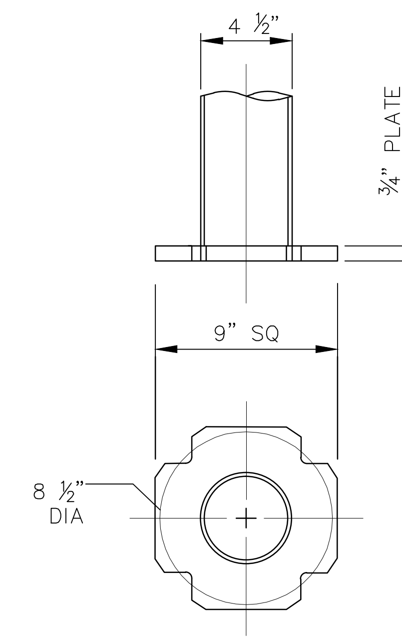
1 JUNCTION BOX AND DETECTOR POLE CONNECTION

SCALE: NTS (1 REQUIRED PER DETECTOR POLE)



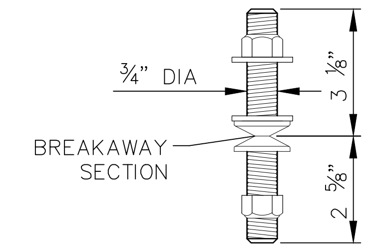
2 GROUND BASE DETAIL

SCALE: NTS



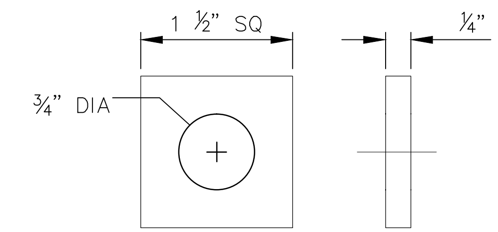
3 POLE BASE DETAIL

SCALE: NTS



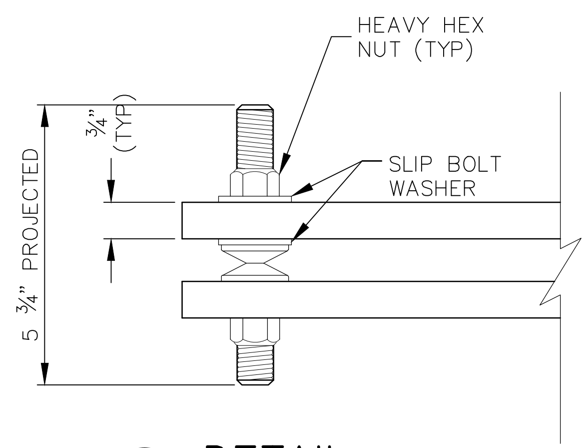
4 BREAKAWAY BOLT DETAIL

SCALE: NTS (4 REQUIRED PER DETECTOR POLE)



5 SLIP BOLT WASHER

SCALE: NTS (2 REQUIRED EACH BOLT)



A DETAIL

SCALE: NTS

NOTES:

1. USE #14 FLEX BLUE CASE WIRE TO CONNECT JUNCTION BOX TO DETECTOR POLE.
2. CONNECT MALE/FEMALE PIN CONNECTORS TO RING EYELET WITH A SHORT PIECE OF #14 CASE WIRE. CONNECT TO EACH END OF #14 FLEX WIRE TO DETECTOR POLE, MAKING HALF INCH MIN AROUND 3⁄8" BOLT THROUGH POLE AT HAND HOLE.
3. USE POSITIVE AND NEGATIVE BATTERY AT EVERY OTHER DETECTOR POLE.
4. MALE AND FEMALE PIN CONNECTORS SHALL BE INSULATED.
5. ALL STEEL MATERIAL SHALL BE HOT-DIPPED GALVANIZED. AVOID DAMAGING THE GALVANIZED FINISH OF MATERIALS DURING TRANSPORT AND PLACEMENT.

PINCH POINT DETECTOR – PARTS LIST

PART NO.	DESCRIPTION	MANUFACTURER	SIZE	NOTES
C2788007	MULTI-HELIX SCREW IN FOUNDATION	HUBBLE POWER SYSTEMS	60 (IN)	POLE & FOUNDATION MOUNTING PLATE SHOWN ON THE DETAILED DRAWINGS ARE CUSTOM MADE.
TYPE 1182	JUNCTION BOX	WESTERN CULLEN HAYES	8x6x3½ (IN)	
152-11-3025	TOWER & CASE WIRE	OKONITE	#14 AWG	
---	MALE/FEMALE PIN CONNECTOR	S & H TERMINAL	#14 AWG	INSULATED CONNECTORS
6882	BREAKAWAY BOLT	DENT BREAKAWAY INDUSTRIES	¾ (IN)	

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AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

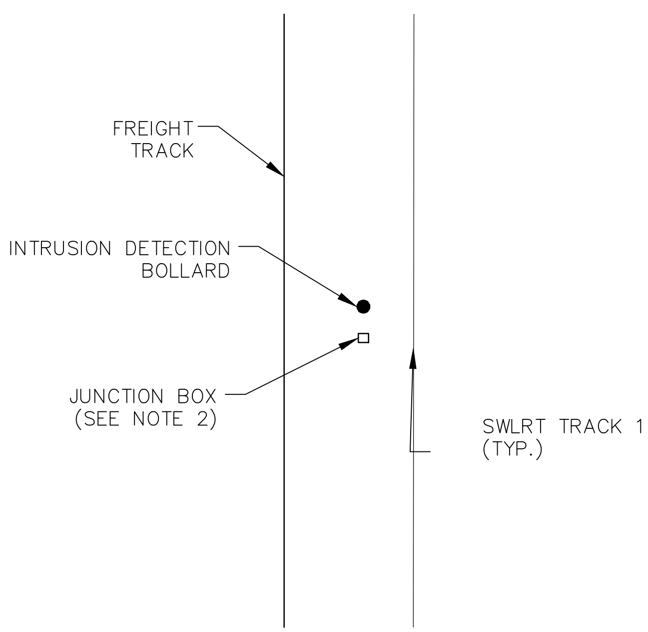
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT INTRUSION DETECTION SYSTEM
DETAIL SHEET 1

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-025

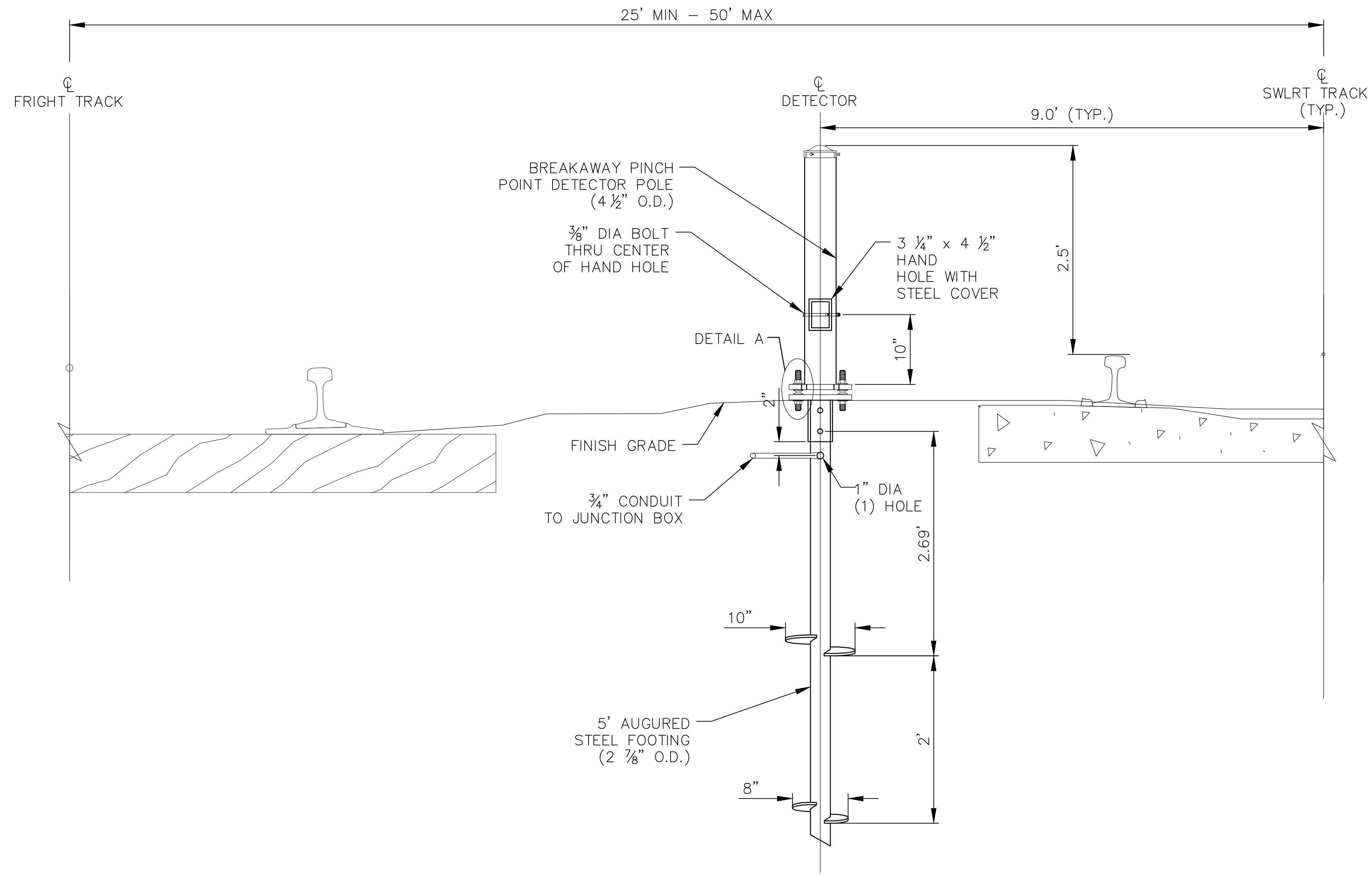
NOTES:

1. ALL INTRUSION DETECTION EQUIPMENT TO BE INSTALLED WITHIN SWLRT ROW.
2. LOCATE JUNCTION BOX IN LINE WITH DETECTOR POLE (2' MIN CLEAR). CONNECT TO POLE WITH FLEXIBLE CONDUIT.
3. SEE SWE SHEETS FOR LOCATION AND LOCAL CONDUIT SCHEDULE.



1 TYPICAL INTRUSION DETECTION BOLLARD LAYOUT

SCALE: NTS



2 TYPICAL INTRUSION DETECTION BOLLARD SECTION

SCALE: NTS

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AECOM | WSP PARSONS BRINCKERHOFF

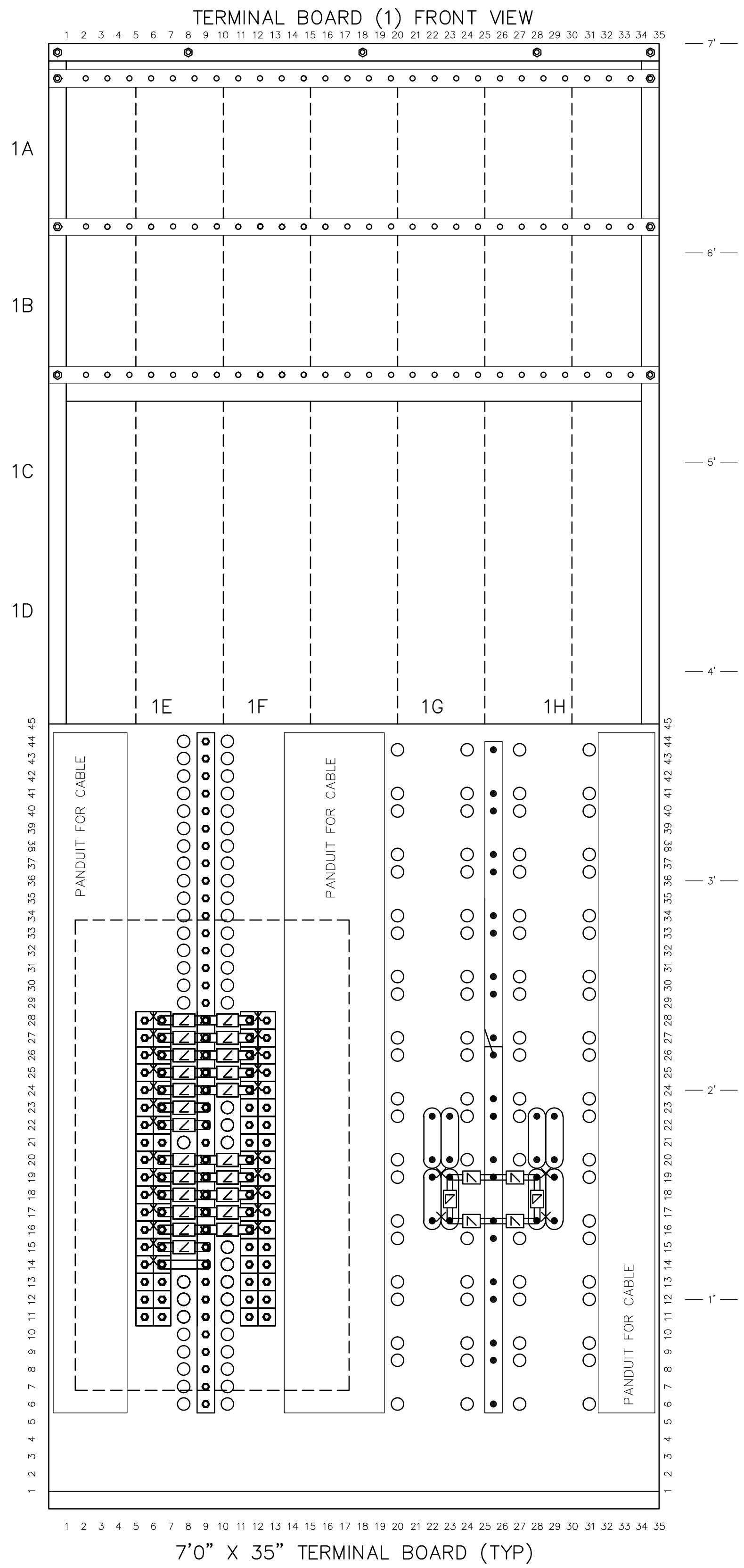
90% SUBMISSION - 01/22/2016

METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT INTRUSION DETECTION SYSTEM
DETAIL SHEET 2

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-026



NOTES:

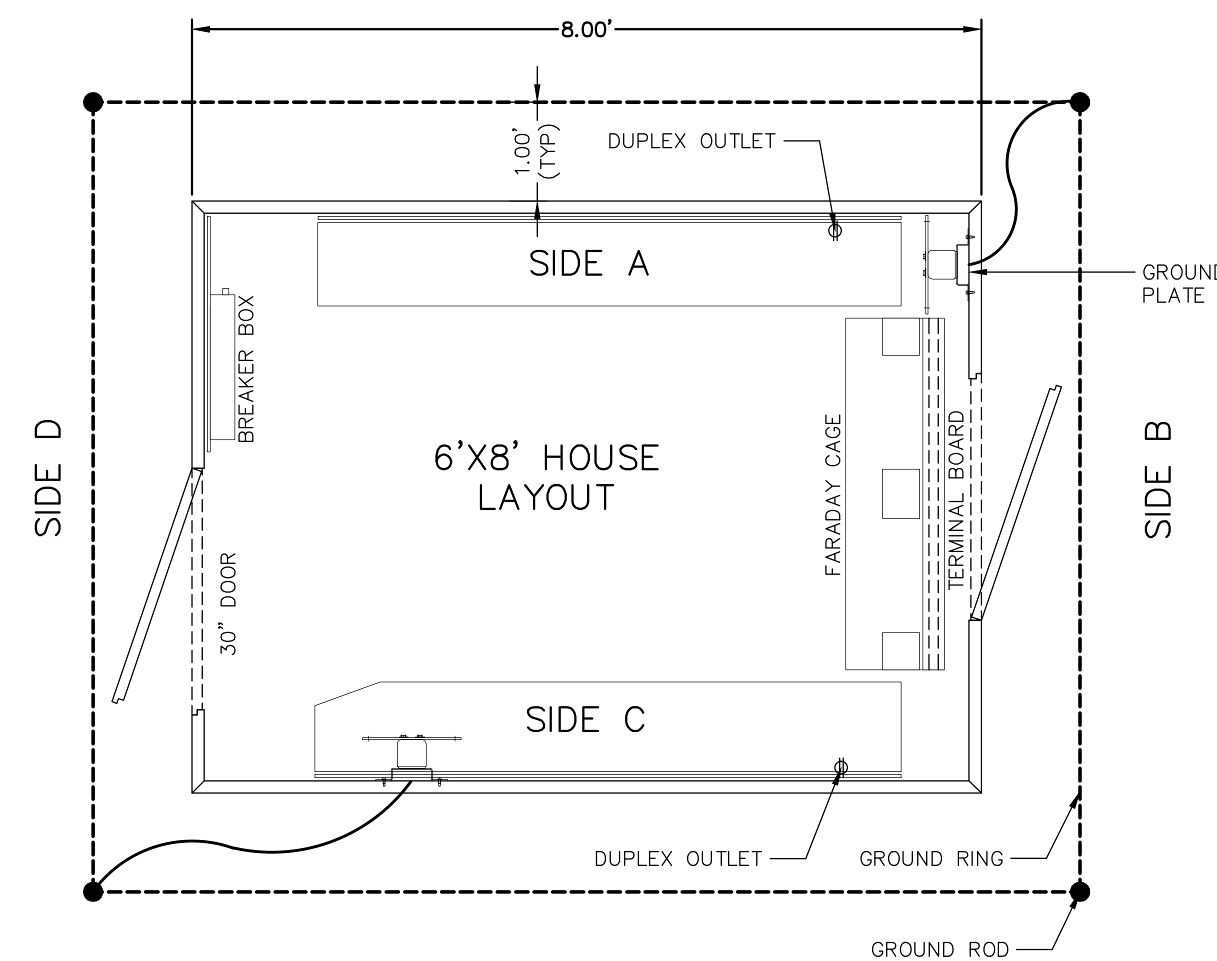
1. AN IP MAINTENANCE PHONE WILL BE MOUNTED ON SIDE "A". THIS PHONE WILL BE COMPLIANT WITH THE COMMUNICATION SYSTEM USED BY THE RCC FOR METRO TRANSIT MAINTENANCE.

2. THE ENTRANCE RACK SHALL BE CONFIGURED IN A FARADAY CAGE DESIGN TO PROVIDE LIGHTNING PROTECTION. THE DESIGN FOR THIS FARADAY CAGE WILL BE SUBMITTED TO THE CAR FOR APPROVAL PRIOR TO PROCUREMENT OR INSTALLATION.

3. THE CONTRACTOR SHALL PROVIDE A VENTILATION FAN AND RESISTIVE HEATER SIZED SPECIFICALLY FOR THE NEEDS OF THIS EQUIPMENT HOUSING AND FOR THIS CLIMATE. THE CLIMATE CONTROL SYSTEM WILL BE OPERATED BY A SINGLE THERMOSTAT. "OVERTEMP" AND "UNDERTEMP" ALARMS WILL BE GENERATED AND TRANSMITTED TO THE LRT XING HOUSE OR NEAREST SIGNAL HOUSE VIA FIBER AND TRANSMITTED FROM LRT SIGNAL HOUSE TO THE RCC VIA SCADA.

4. FARADAY CAGE LAYOUT: CABLE WIRE TO EQUIPMENT HOLES FOR EQUIPMENT WIRES; GROUND TERMINALS FOR ARRESTERS; HOLES FOR EQUIPMENT WIRES TO EQUIPMENT CABLE WIRE.

5. CABLE SHIELDS ARE TO BE WIRED TO GROUND. SPARE CABLE CONDUCTORS ARE TO BE CONNECTED TO GROUND.



Jan, 15 2016 11:18 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-027.dwg By: woodsaj

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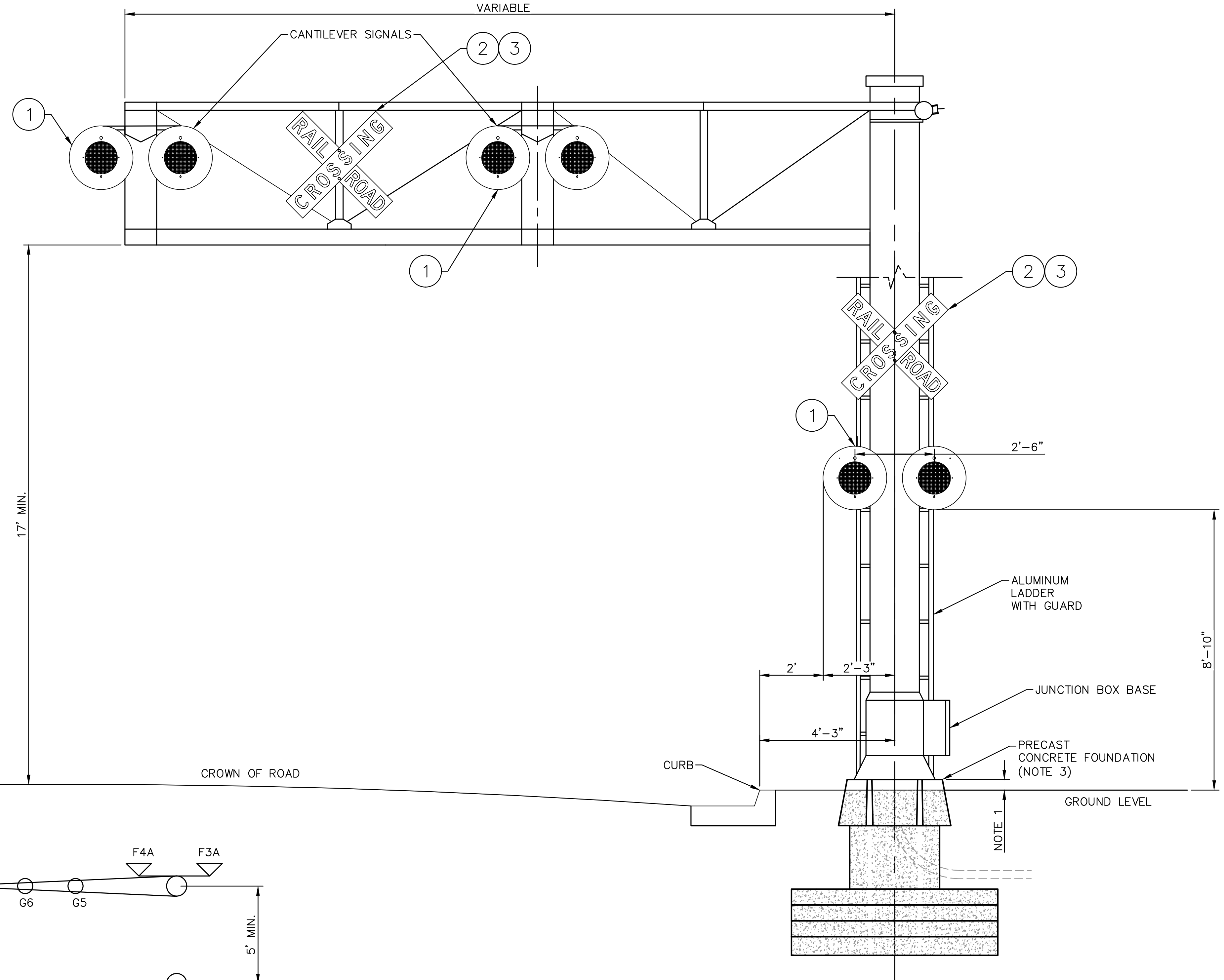
90% SUBMISSION - 01/22/2016

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT SIGNAL HOUSE DETAILS
TYPICAL 6'X8' GRADE CROSSING HOUSE

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-027

SHEET 375 OF 464

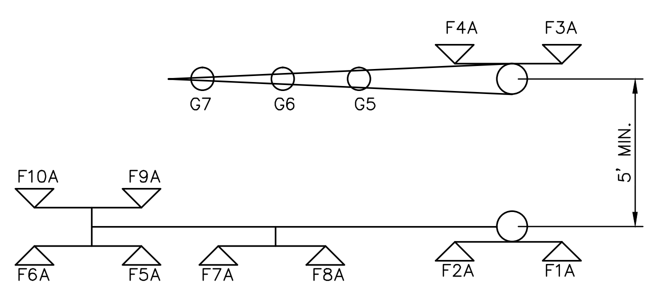


NOTES:

1. TOP OF FOUNDATION TO BE NO HIGHER THAN 4" ABOVE GROUND LEVEL ADJACENT TO FOUNDATION.
2. PROVIDE CABLE ENTRANCES TO FOUNDATIONS AS REQUIRED.
3. PRE-CAST FOUNDATIONS ARE PREFERRED WHERE POSSIBLE.
4. SEE DETAIL 2 FOR FLASHING LIGHT NUMBERING.
5. INSTALL GROUND ROD ADJACENT TO FOUNDATION AND CONNECT GROUND WIRE TO GROUND STUD ON SIGNAL BASE. ATTACH GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ OF TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ OF TRACK.
6. SEE INDIVIDUAL CROSSING DRAWINGS FOR UNIQUE SITE INFORMATION.
7. CANTILEVER SIGNALS TO BE PLACED OVER CENTERLINE OF LANES.
8. REVERSE SIGNALS TO BE PROVIDED ON ALL CANTILEVER MASTS.

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	AS REQ'D	12" GE RG6 "UNIFORM LOOK" LED MODULES WITH 24" ALUMINUM BACKGROUND, FLAT BLACK, WITH 12" VISOR
2	1	SINGLE SIDED X-BUCK SIGN
3	AS REQ'D	DOUBLE SIDED X-BUCK SIGN



2 DETAIL
SCALE: NTS

1 TYPICAL WALKOUT CANTILVER SIGNAL INSTALLATION DETAIL
SCALE: NTS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
FREIGHT WALKOUT CANTILEVER SIGNAL
INSTALLATION DETAIL

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-028

SHEET 376 OF 464

Jan. 15 2016 11:19 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-028.dwg By: woodsaj

NOTES:

1. CONTRACTOR SHALL DEMONSTRATE THAT THE CROSSING FOUNDATION WILL BE COMPLIANT WITH AREMA & WILL BE STRUCTURALLY ADEQUATE FOR EACH INSTALLATION.

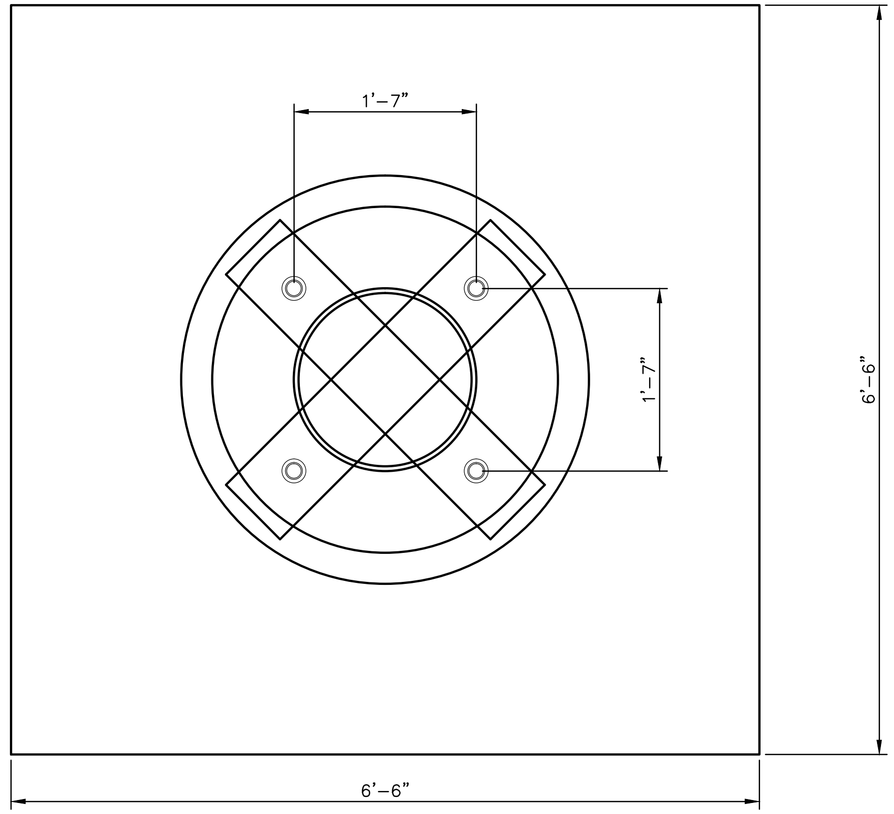
2. TOP OF CANTILEVER FOUNDATION EVEN WITH CROWN OF ROAD EXCEPT WHEN INSTALLED IN SIDEWALK WHERE FOUNDATION SHALL BE NO MORE THAN 1" ABOVE SIDEWALK.

3. CONTRACTOR TO PROVIDE FOUNDATIONS DIMENSIONS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.

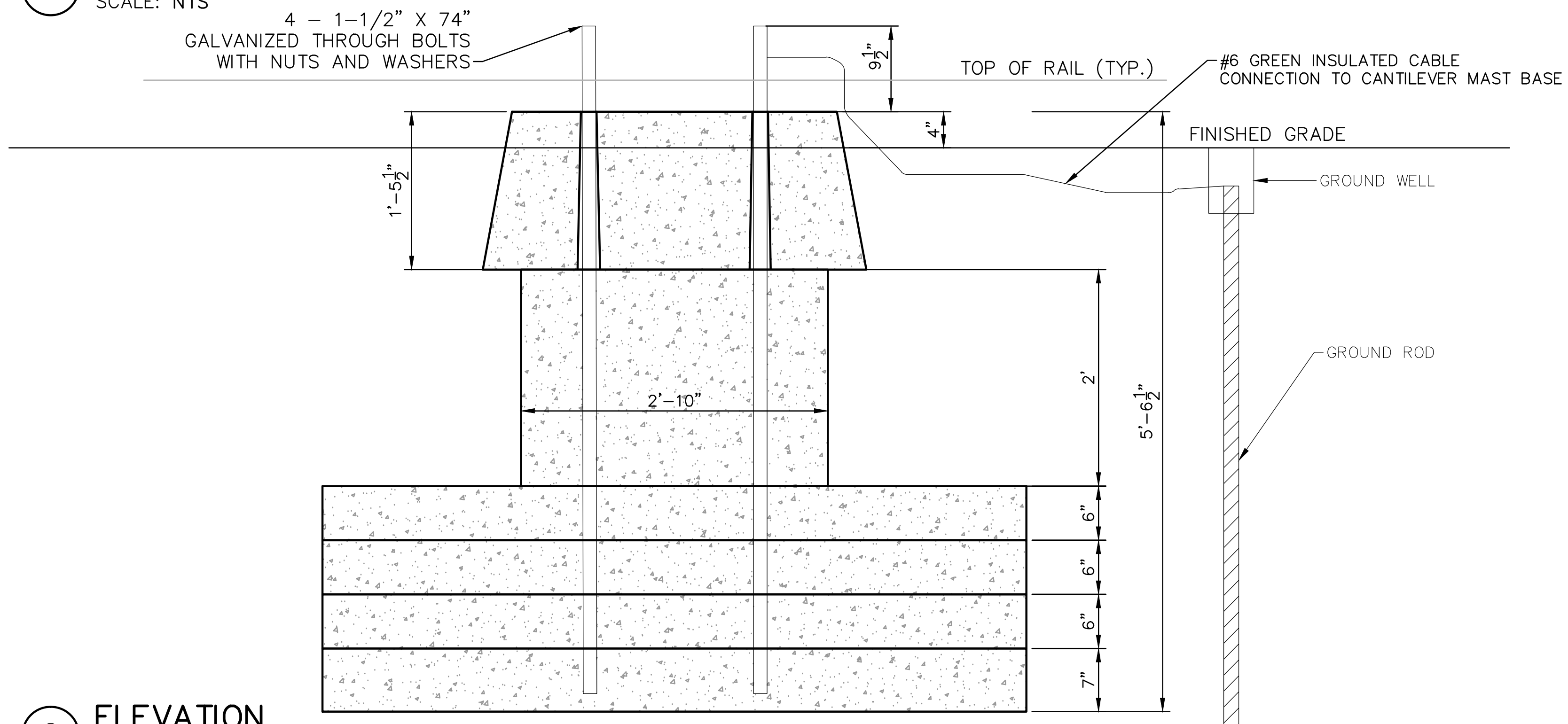
4. CONTRACTOR'S GEOTECHNICAL ENGINEER TO VERIFY SOIL CONDITIONS ARE APPROPRIATE FOR FOUNDATION DESIGN.

6. PROVIDE FOUNDATION, ANCHOR BOLTS, GROUND ROD, CONDUIT, BASE PLATES, NUTS AND WASHERS REQUIRED FOR INSTALLATION OF THE DEVICE.

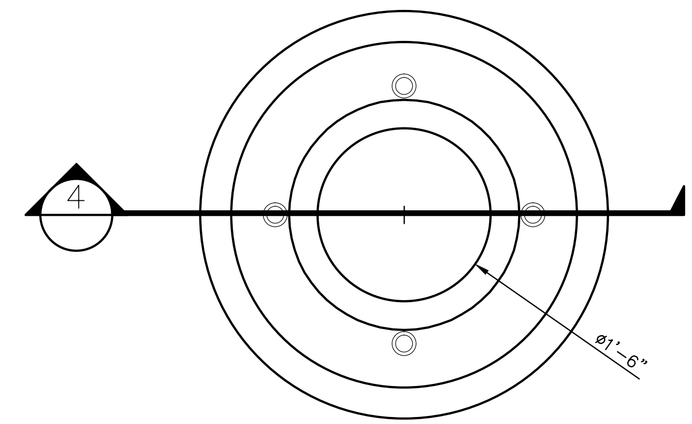
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ OF TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ OF TRACK.



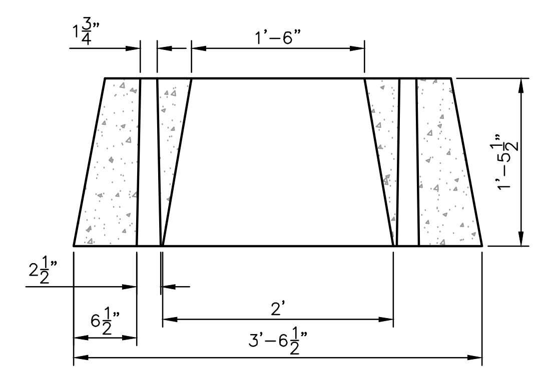
1 PLAN VIEW
SCALE: NTS



2 ELEVATION
SCALE: NTS



3 PLAN VIEW - TOP
SCALE: NTS



4 SECTION - TOP
SCALE: NTS

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
WALKOUT CANTILEVER SIGNAL
FOUNDATION DETAIL

DISCIPLINE: SYSTEMS

SHEET NAME: E0-SYS-SWE-DTL-SIG-029

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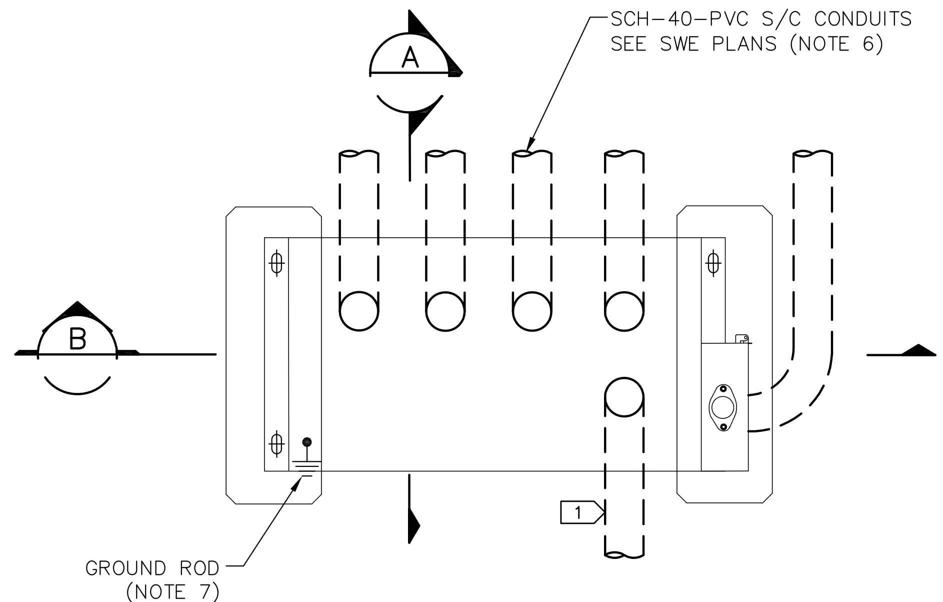
Jan. 15 2016 11:19 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SIGNAL\TYPICALS\SWE TYPICALS\E0-SYS-SWE-DTL-SIG-029.dwg By: woodsaj

KEYNOTES:

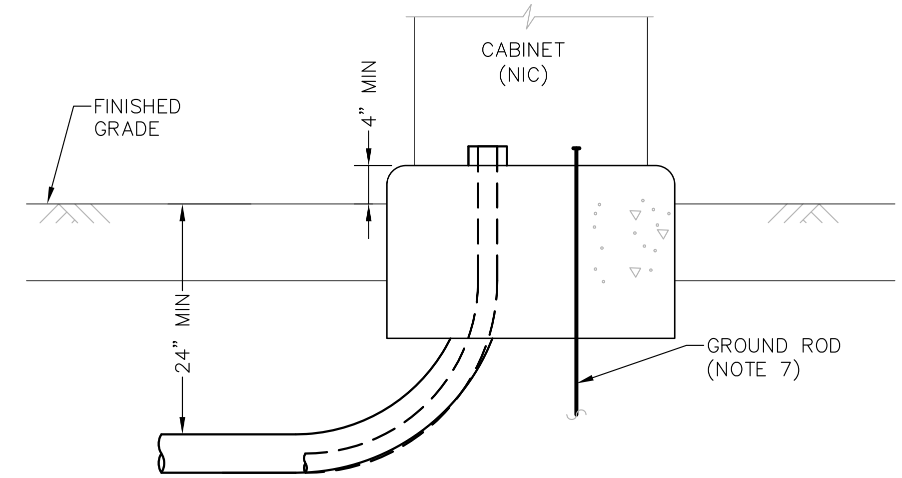
1. PROVIDE CONDUIT FOR POWER FEED TO IDS CABINET; ALL OTHER CONDUITS SHALL CARRY COMMUNICATIONS/DATA CABLING.

GENERAL NOTES:

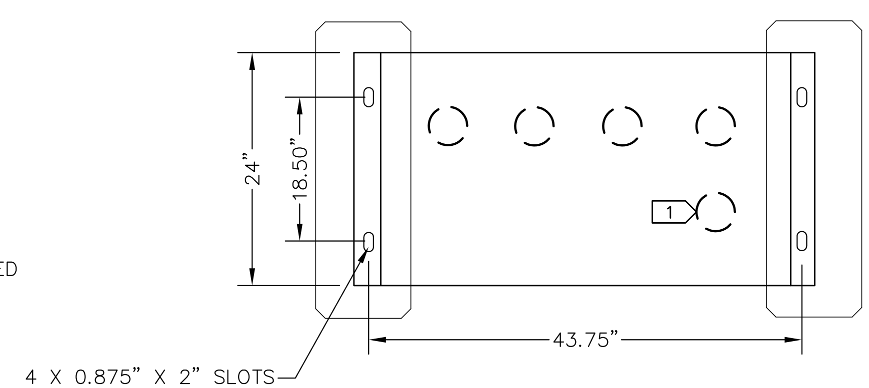
1. THE ANCHOR BOLTS, NUTS AND WASHERS FOR THE CONTROLLER CABINET SHALL BE FURNISHED ACCORDING TO THE CABINET MFGR SPECIFICATIONS. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) (NIC).
2. THE UPPER PART OF THE EQUIPMENT PLINTHS SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER.
3. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION.
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET AS NECESSARY AND SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.) OR WITH THE BASE DIMENSIONS OF THE CABINET.
5. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PLINTHS IN ACCORDANCE WITH Mn/DOT STANDARD CONCRETE DESIGNS.
6. THE EXACT LOCATION AND NUMBER OF CONDUITS SHALL BE DETERMINED BY THE CONTRACT DRAWINGS. CONTRACTOR TO PROVIDE KNOCK-OUT SPACE IN FINISHED GRADE FOR ACCESS TO CONDUIT ENTRANCE.
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ TRACK. (NIC)
8. USE AN ADEQUATE POST-INSTALLED CHEMICAL SET ANCHOR BOLT OF A DESIGN SUBMITTED FOR APPROVAL. (NIC)
9. CONCRETE PLINTHS SHALL BE POURED BASED ON CABINET MFG SPECIFICATIONS. PRE-CAST PLINTHS/PIERS MAY BE USED IN LIEU OF POURED PLINTHS. EXACT SIZE AND DEPTH OF PIERS/PLINTHS TO BE DETERMINED BY MFG SPECIFICATIONS AND CASE LOAD. FOUNDATION DESIGN MUST BE SUBMITTED FOR APPROVAL.
10. PRECAST OR POURED PLINTHS SHALL BE BASED ON PTMW P/N 41040J CASE OR APPROVED EQUAL. SEE DRAWING SYS-SIG-DTL-016 FOR ADDITIONAL DETAILS OF CASE. (NIC)



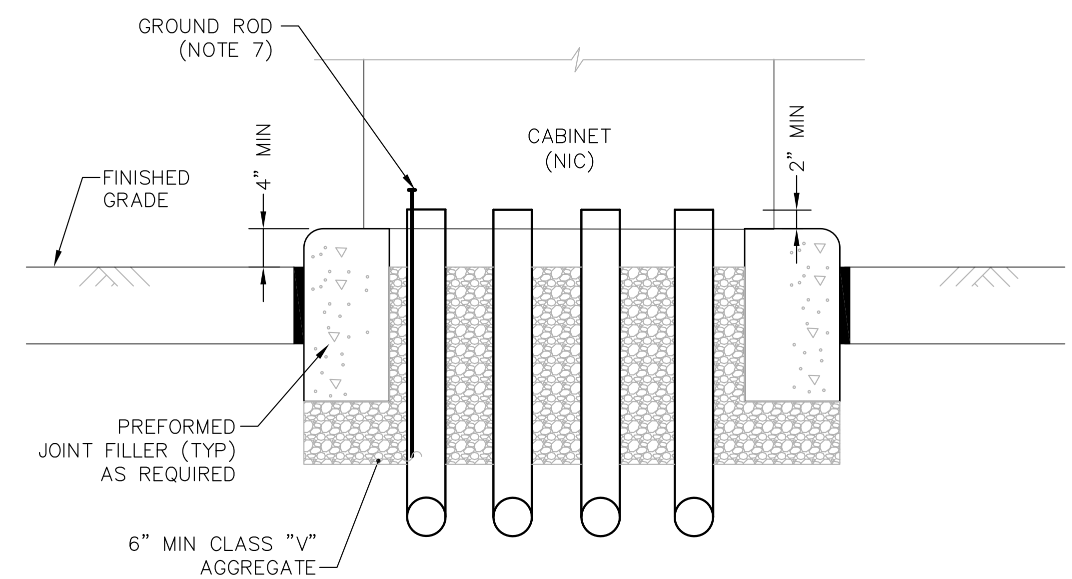
1 FOUNDATION PLAN
SCALE: NTS



A SECTION
SCALE: NTS



2 CABINET BASE DETAIL
SCALE: NTS



B SECTION
SCALE: NTS

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MP Consultants
CONSULTING ENGINEERING MINNEAPOLIS MINNESOTA

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
INTRUSION DETECTION CABINET
TYPICAL FOUNDATION INSTALLATION

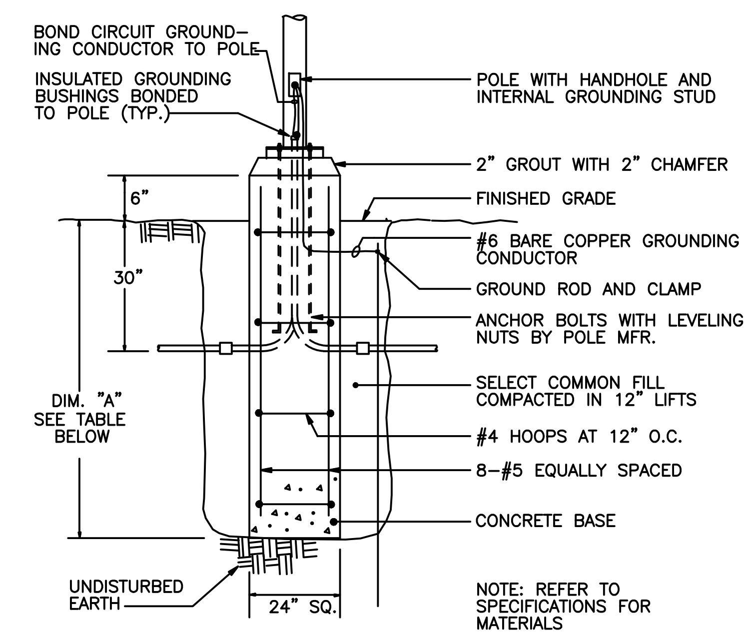
DISCIPLINE: SYSTEMS
SHEET NAME: W0-SYS-SWE-DTL-COM-001

SHEET 378 OF 464

Jan. 18 2016 12:54 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\SYSTEM WIDE ELECTRICAL\W0-SYS-SWE-DTL-COM-001.dwg By: FergTK

NOTES:

1. THE ANCHOR BOLTS, NUTS AND WASHERS FOR THE POLE SHALL BE FURNISHED ACCORDING TO THE CABINET MFGR SPECIFICATIONS. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE (NIC).
2. THE UPPER PART OF THE EQUIPMENT PLINTHS SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER.
3. THE TOP OF THE CONDUITS SHALL BE CAPPED AFTER INSTALLATION.
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE CONCRETE AND SHALL BE CAPPED TO AVOID INGRESS OF DIRT, MOISTURE, ETC.
5. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR THE POLE FOUNDATIONS IN ACCORDANCE WITH Mn/DOT STANDARD CONCRETE DESIGNS.
6. THE EXACT LOCATION AND NUMBER OF CONDUITS SHALL BE DETERMINED BY VOLUME 12 DRAWING CONDUIT SCHEDULES.
7. ATTACH TO GROUND ROD TO INTERNAL GROUND LUG WITH #2/0 GROUNDING CONDUCTOR FOR FOUNDATIONS LESS THAN 15' FROM ℄ TRACK. USE #6 BARE COPPER GROUNDING CONDUCTOR FOR FOUNDATIONS BEYOND 15' FROM ℄ TRACK. (NIC)
8. USE AN ADEQUATE POST-INSTALLED CHEMICAL SET ANCHOR BOLT OF A DESIGN SUBMITTED FOR APPROVAL. (NIC)
9. CONCRETE FOUNDATIONS SHALL BE POURED BASED ON POLE MFG SPECIFICATIONS. PRE-CAST FOUNDATIONS MAY BE USED IN LIEU OF POURED FOUNDATIONS. EXACT SIZE AND DEPTH OF FOUNDATIONS TO BE DETERMINED BY MFG SPECIFICATIONS AND POLE LOAD. FOUNDATION DESIGN MUST BE SUBMITTED FOR APPROVAL.
10. PRECAST OR POURED FOUNDATIONS SHALL BE BASED ON POLE MANUFACTURER SPECIFICATIONS. (NIC)



POLE HEIGHT	DIMENSION "A"
10'-0"	4'-6"
20'-0"	4'-6"
30'-0"	6'-6"
40'-0"	6'-6"

1 TYPICAL WAYSIDE CAMERA/STROBE POLE FOUNDATION DETAIL

SCALE: NTS

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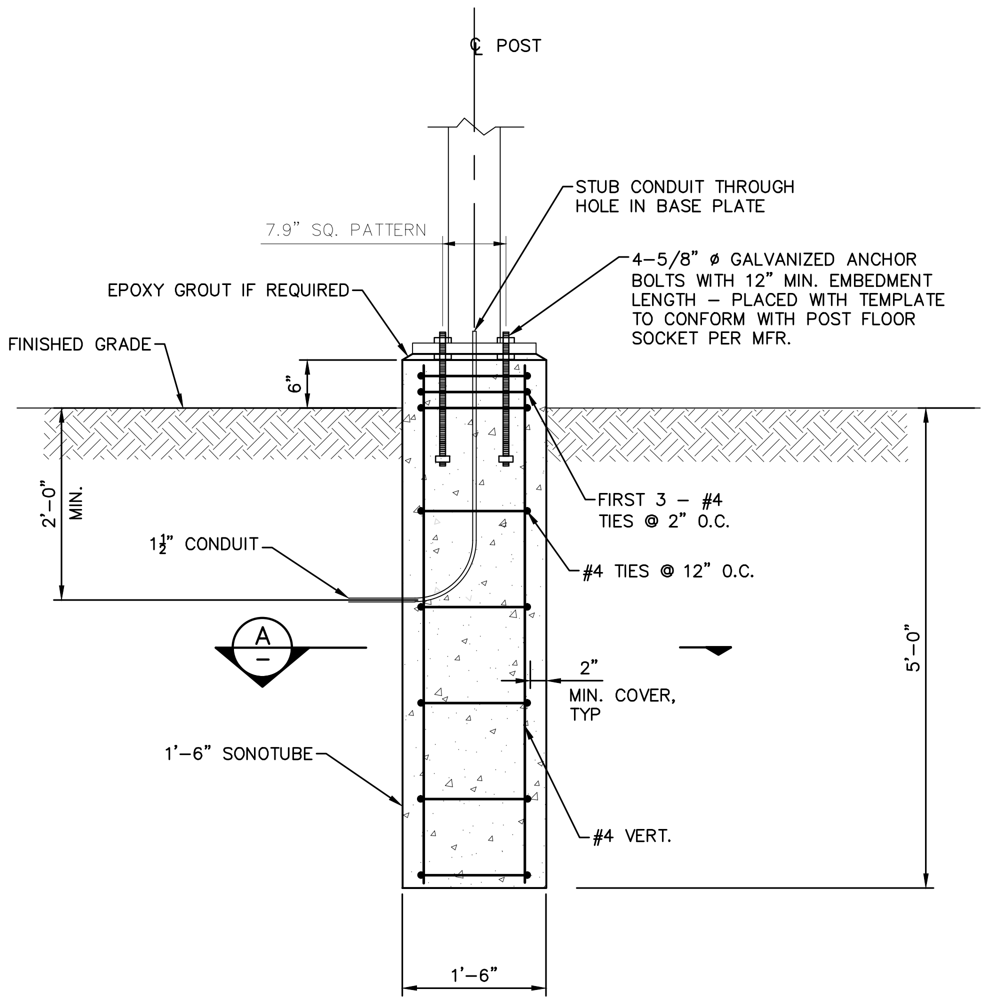
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
INTRUSION DETECTION - TYPICAL
POLE MOUNT FOUNDATION INSTALLATION

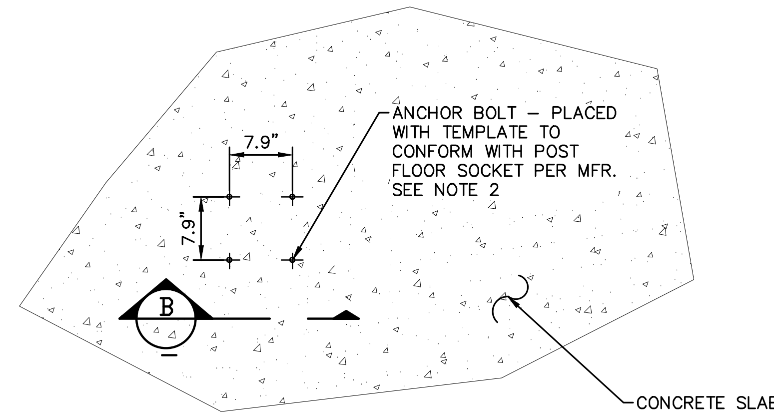
DISCIPLINE: SYSTEMS

SHEET NAME: W0-SYS-SWE-DTL-COM-002



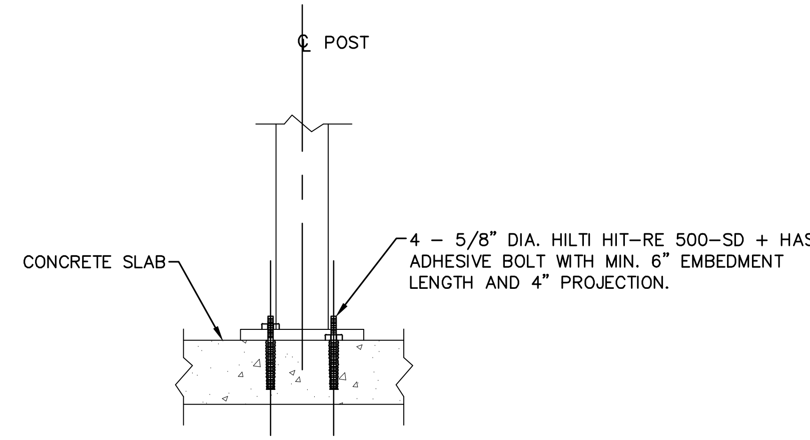
FOUNDATION FOR INTRUSION DETECTION DEVICE

SCALE: 1" = 1'-0"



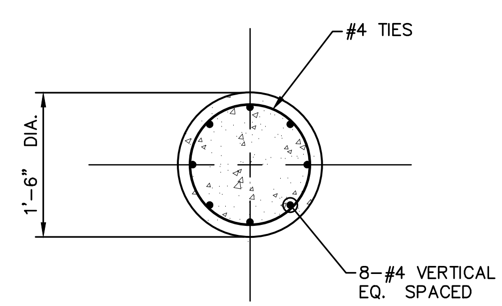
PLAN (ALTERNATIVE)

SCALE: 1" = 1'-0"



B – SECTION

SCALE: 1"=1'-0"



A – SECTION

SCALE: 1"=1'-0"

NOTES:

1. SEE SPECIFICATIONS SECTION 26 05 43 FOR MORE DETAILED CONCRETE REQUIREMENTS.
2. ANCHOR BOLTS SHALL BE PLACED AT LEAST 6" MIN. AWAY FROM THE EDGE OF THE CONCRETE SLAB

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
INSTRUSION DETECTION DEVICE
FOUNDATION DETAILS

DISCIPLINE: STRUCTURAL

SHEET NAME: W0-SYS-STU-DTL-005

SHEET 380 OF 464

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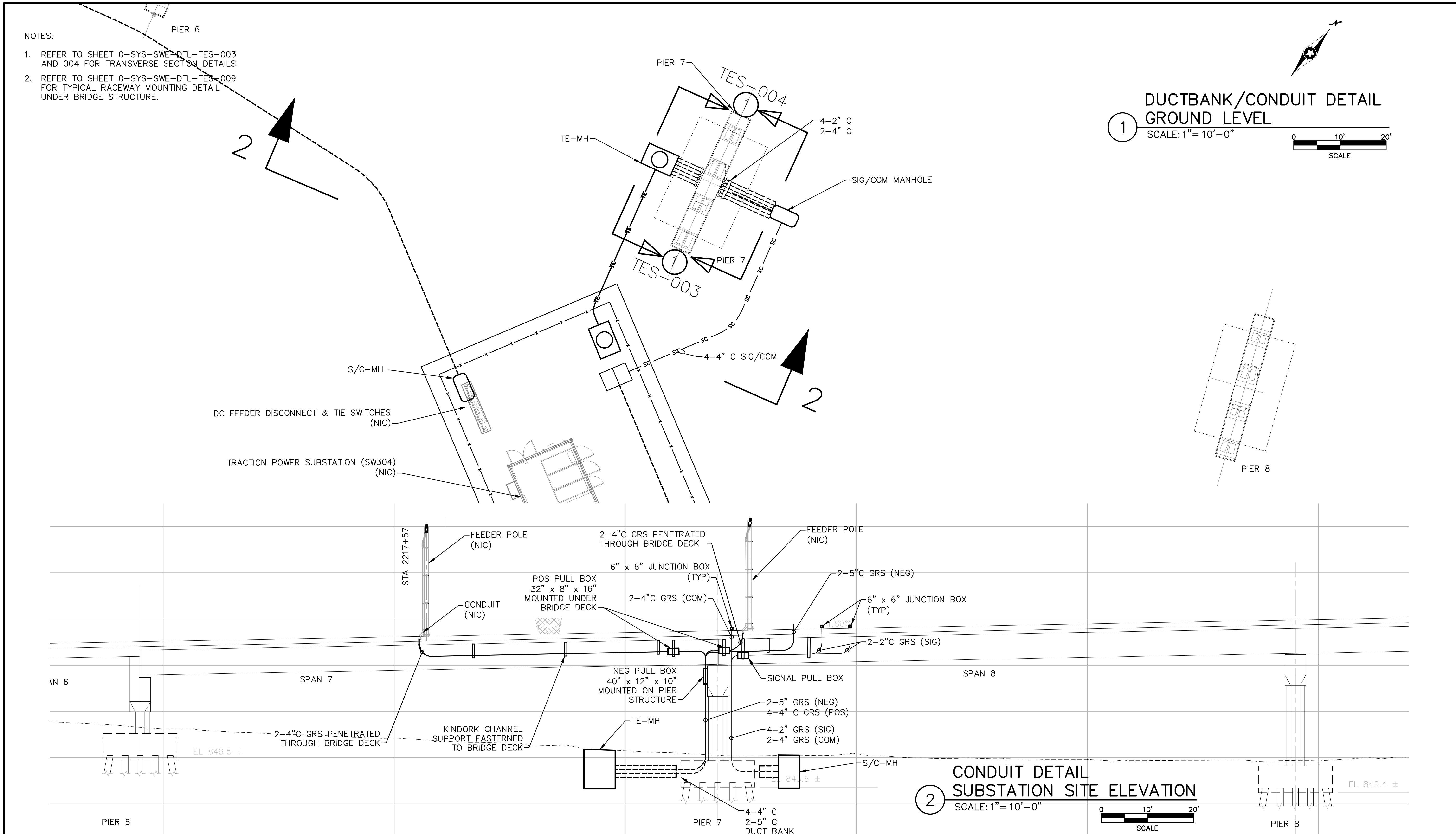
NOTES:

1. REFER TO SHEET 0-SYS-SWE-DTL-TES-003 AND 004 FOR TRANSVERSE SECTION DETAILS.
2. REFER TO SHEET 0-SYS-SWE-DTL-TES-009 FOR TYPICAL RACEWAY MOUNTING DETAIL UNDER BRIDGE STRUCTURE.



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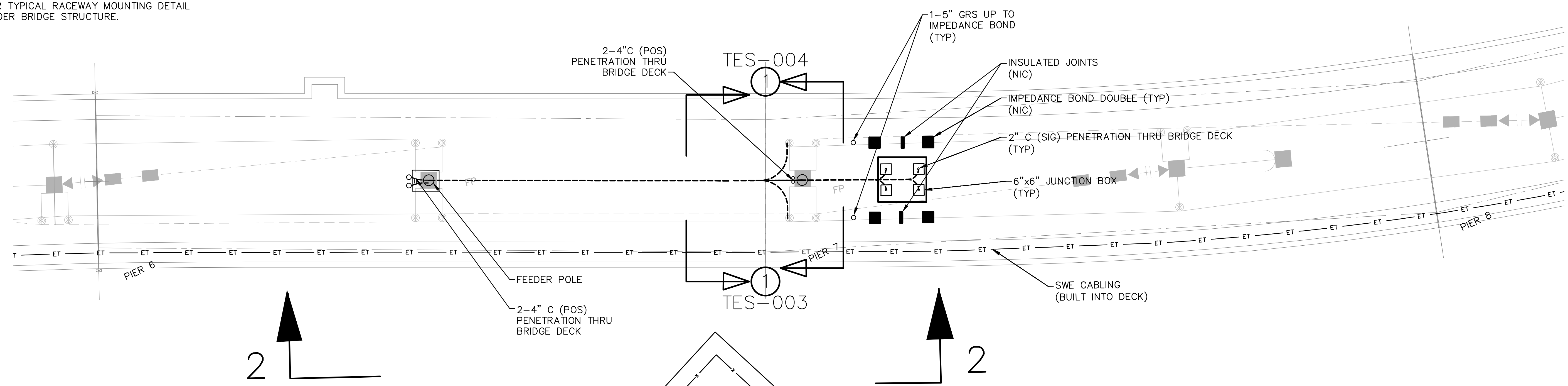
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SUBSTATION SITE DETAIL 1
SUBSTATION SW304

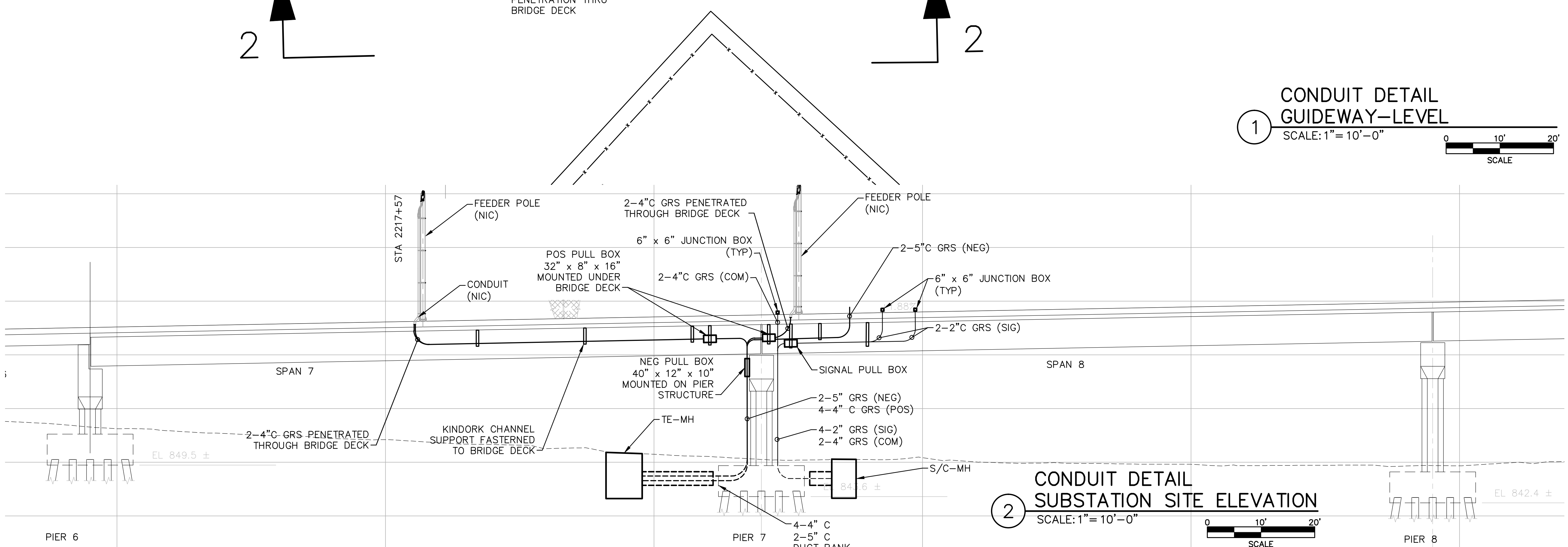
DISCIPLINE: SYSTEMS
SHEET NAME: 0-SYS-SWE-DTL-TES-001

NOTES:

1. REFER TO SHEET 0-SYS-SWE-DTL-TES-003 AND 004 FOR TRANSVERSE SECTION DETAILS.
2. REFER TO SHEET 0-SYS-SWE-DTL-TES-009 FOR TYPICAL RACEWAY MOUNTING DETAIL UNDER BRIDGE STRUCTURE.



CONDUIT DETAIL GUIDEWAY-LEVEL (1)
SCALE: 1"= 10'-0"



CONDUIT DETAIL SUBSTATION SITE ELEVATION (2)
SCALE: 1"= 10'-0"

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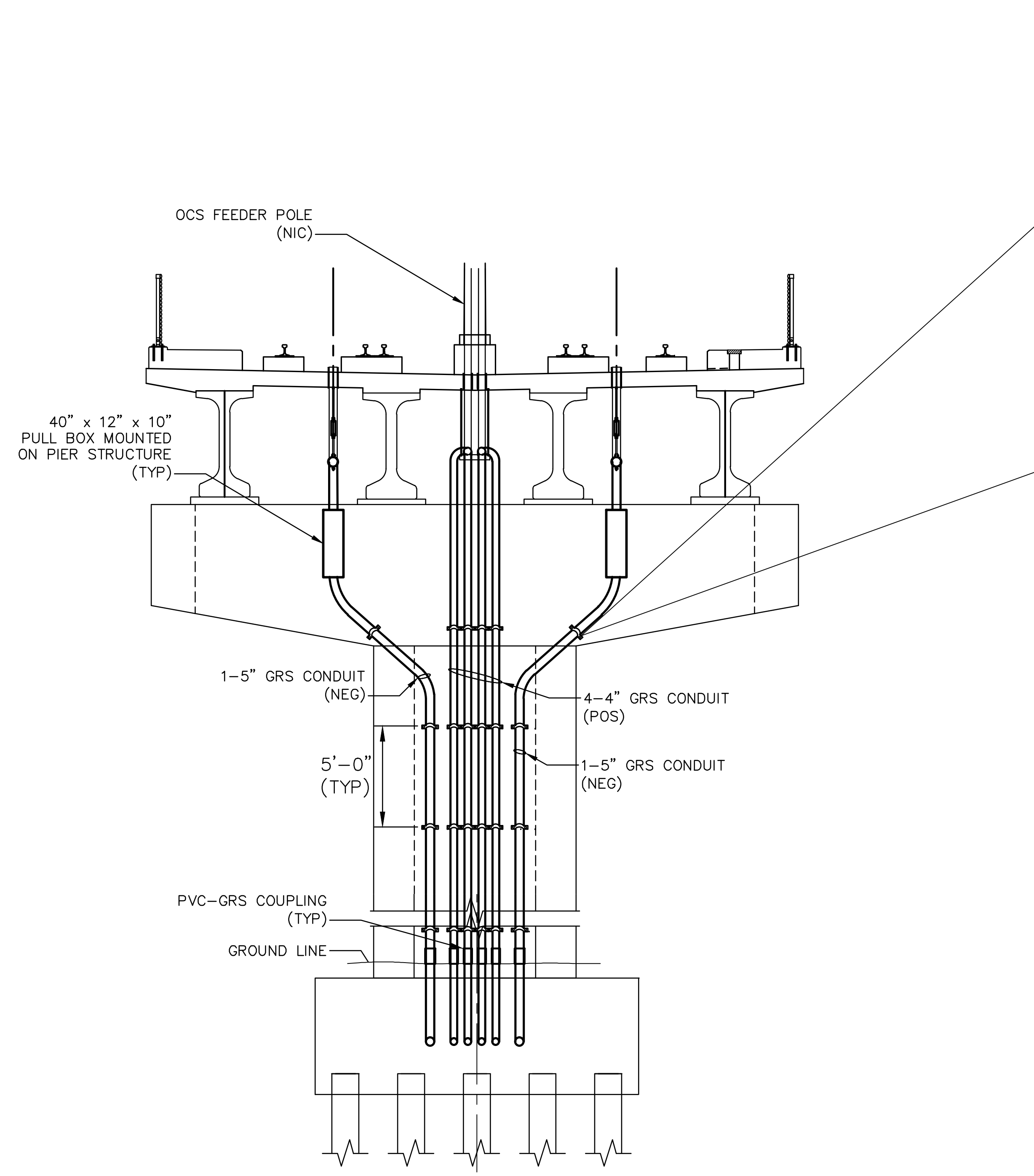
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SUBSTATION DETAIL 2
SUBSTATION SW304

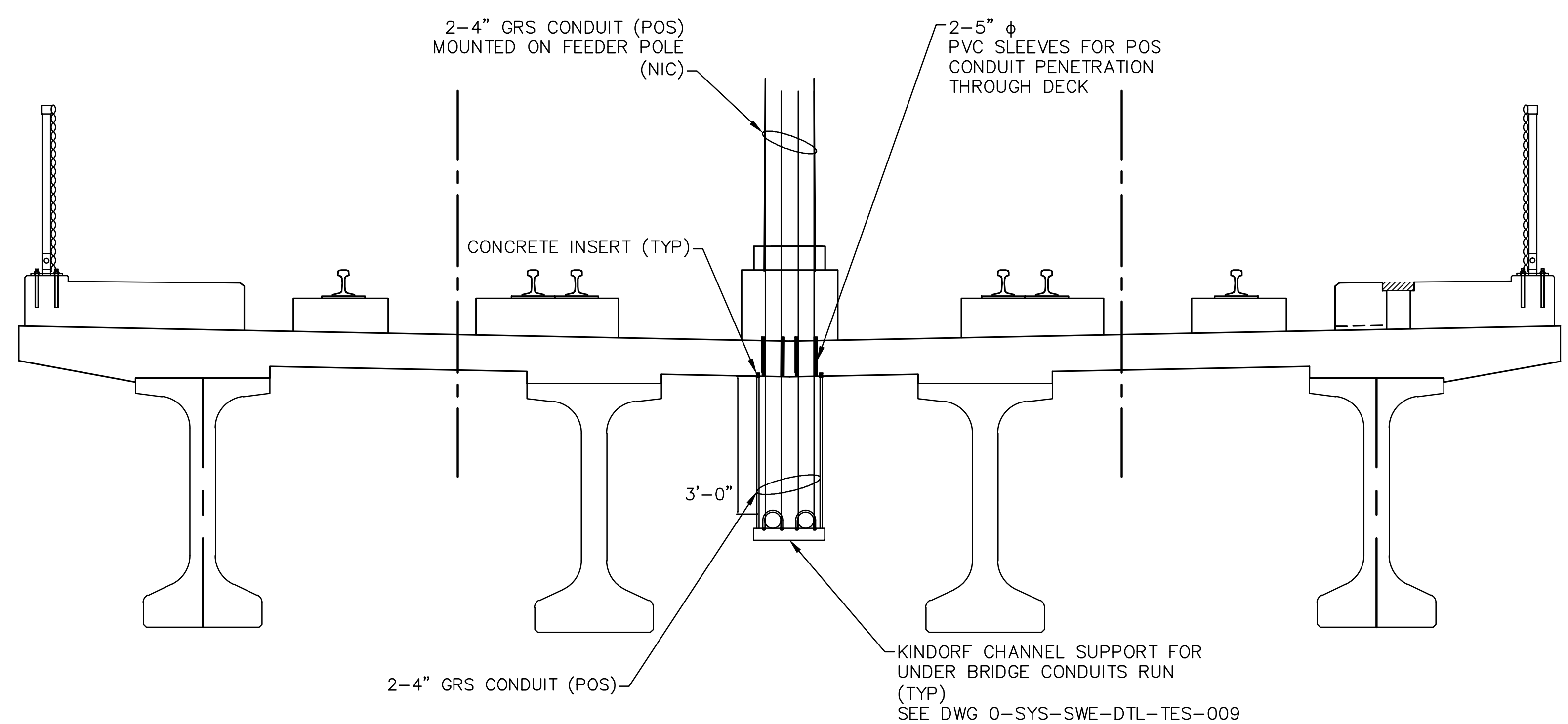
DISCIPLINE: SYSTEMS
SHEET NAME: 0-SYS-SWE-DTL-TES-002

SHEET 382 OF 464

Jan. 18 2016 11:06 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\TRACTION POWER\0-SYS-TES-BRD-001.dwg By: MillerJa



CONDUIT MOUNTING DETAIL
1 PIER 7 ELEVATION (LOOKING EAST)
SCALE: 1"= 4'-0"
0 4' 8'
SCALE



CONDUIT MOUNTING DETAIL
2 SPAN 7 TRANSVERSE DECK SECTION (LOOKING EAST)
SCALE: 1"= 2'-0"
0 2' 4'
SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SOUTHWEST Green Line LRT Extension

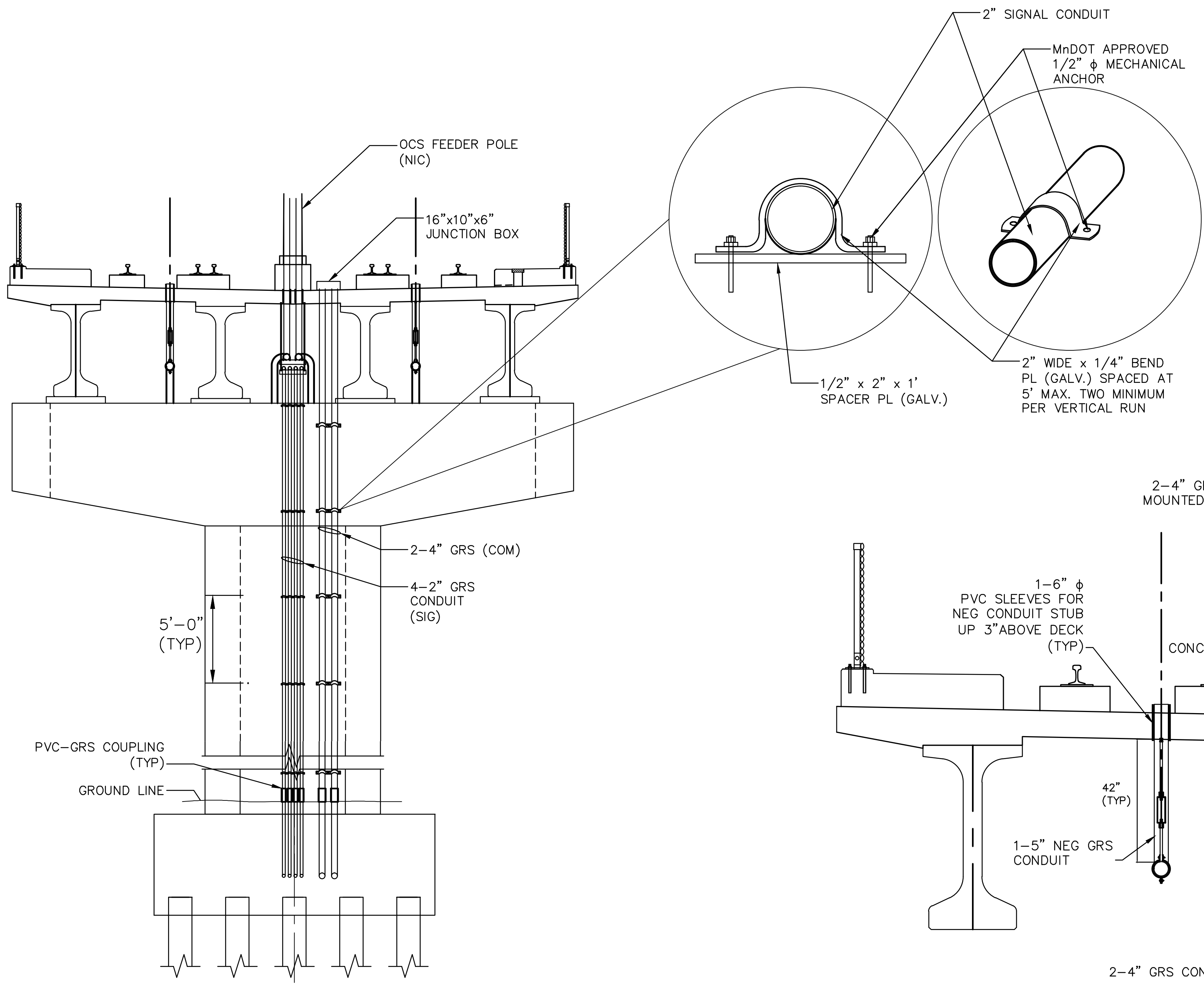
90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
NINE MILE CREEK BRIDGE 27C07
TRANSVERSE SECTION DETAIL 1

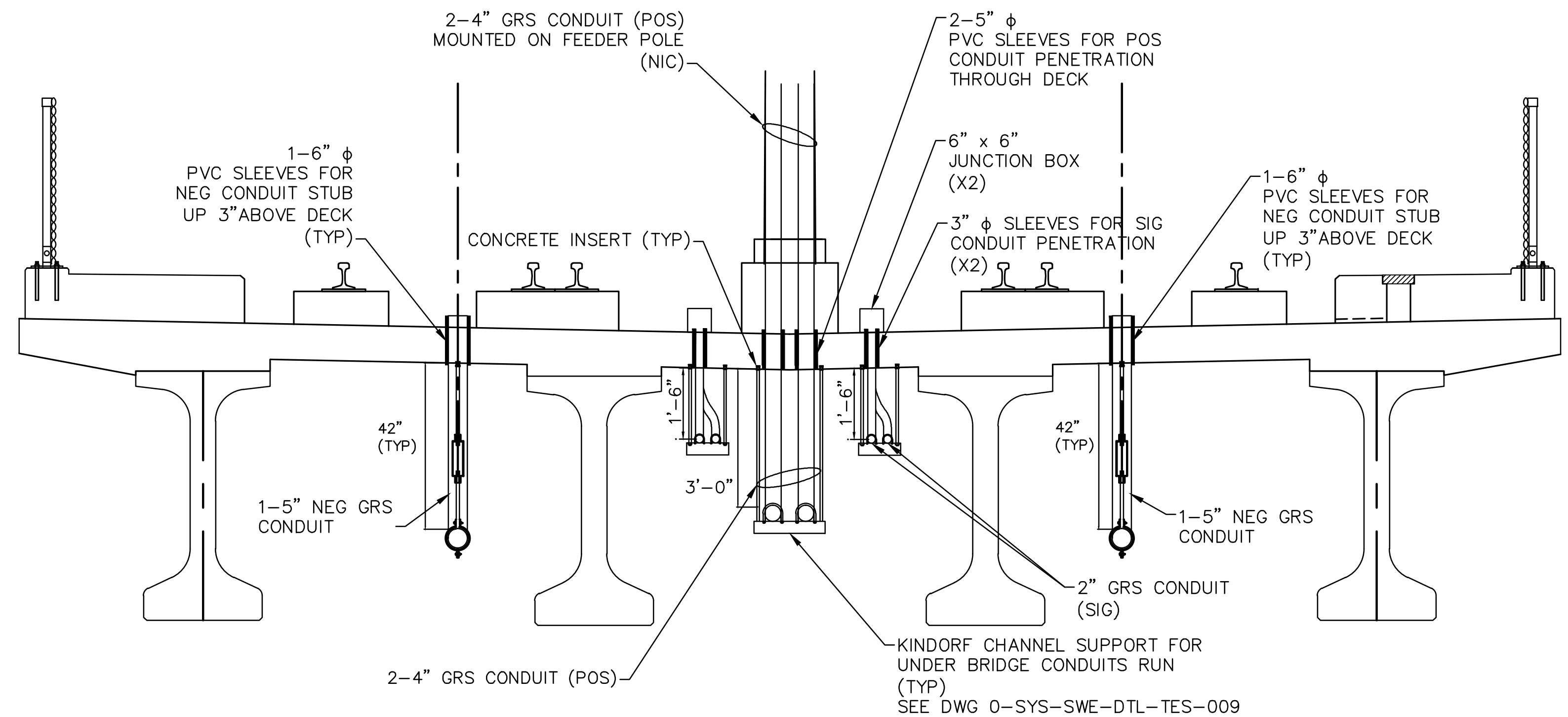
DISCIPLINE: SYSTEMS
SHEET NAME: 0-SYS-SWE-DTL-TES-003

SHEET 383 OF 464

Jan. 18 2016 11:09 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\TRACTION POWER\0-SYS-TES-PND-004.dwg By: MillerJa



CONDUIT MOUNTING DETAIL
1 PIER 7 ELEVATION (LOOKING WEST)
SCALE: 1"= 4'-0"



CONDUIT MOUNTING DETAIL
2 SPAN 8 TRANSVERSE DECK SECTION (LOOKING WEST)
SCALE: 1"= 2'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL — SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
NINE MILE CREEK BRIDGE 27C07
TRANSVERSE SECTION DETAIL 2

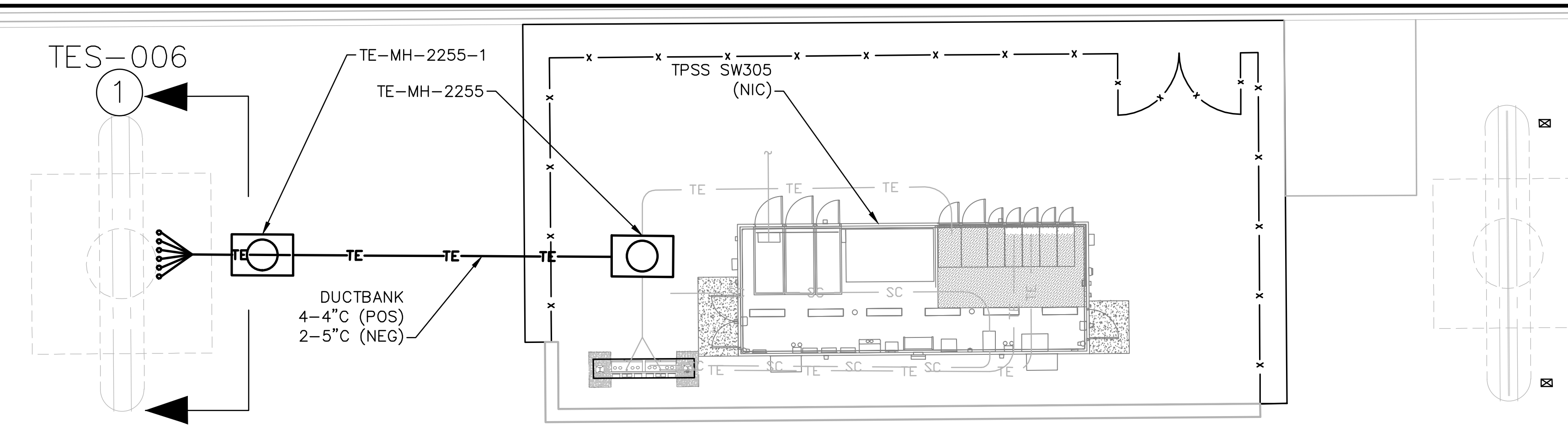
DISCIPLINE: SYSTEMS
SHEET NAME: 0-SYS-SWE-DTL-TES-004

1 DUCTBANK/CONDUIT DETAIL GROUND-LEVEL
SCALE: 1"= 10'-0"

0 10' 20' SCALE

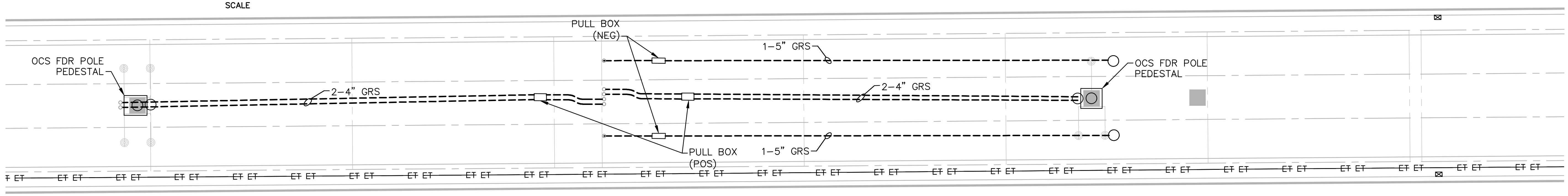
NOTES:

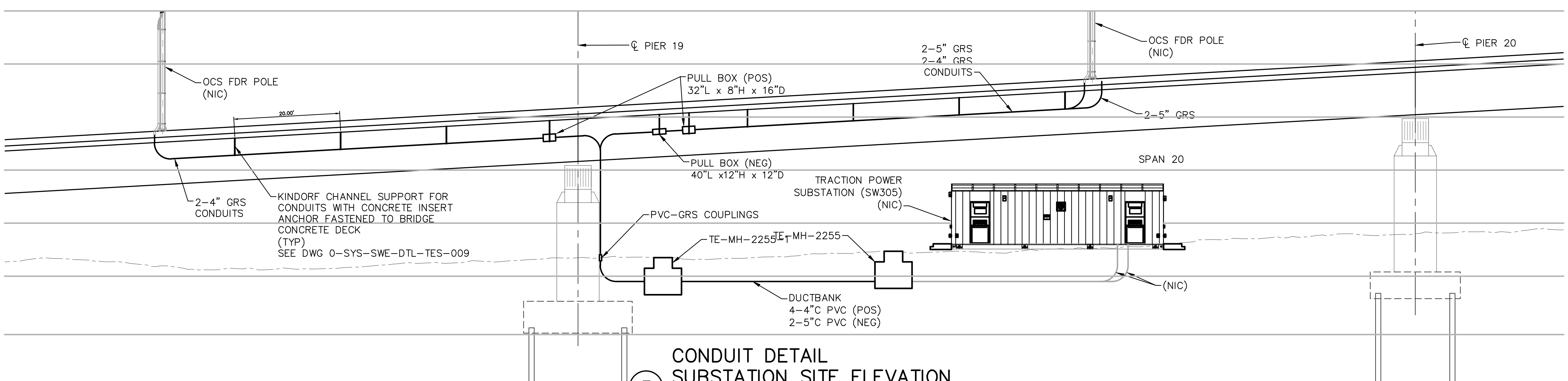
1. REFER TO SHEET 0-SYS-SWE-DTL-TES-006 FOR TRANSVERSE SECTION DETAILS.
2. REFER TO SHEET 0-SYS-SWE-DTL-TES-009 FOR TYPICAL RACEWAY MOUNTING DETAIL UNDER BRIDGE STRUCTURE.



2 CONDUIT DETAIL GUIDEWAY-LEVEL
SCALE: 1"= 10'-0"

0 10' 20' SCALE





3 CONDUIT DETAIL SUBSTATION SITE ELEVATION
SCALE: 1"= 10'-0"

0 10' 20' SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM | WSP | PARSONS BRINCKERHOFF

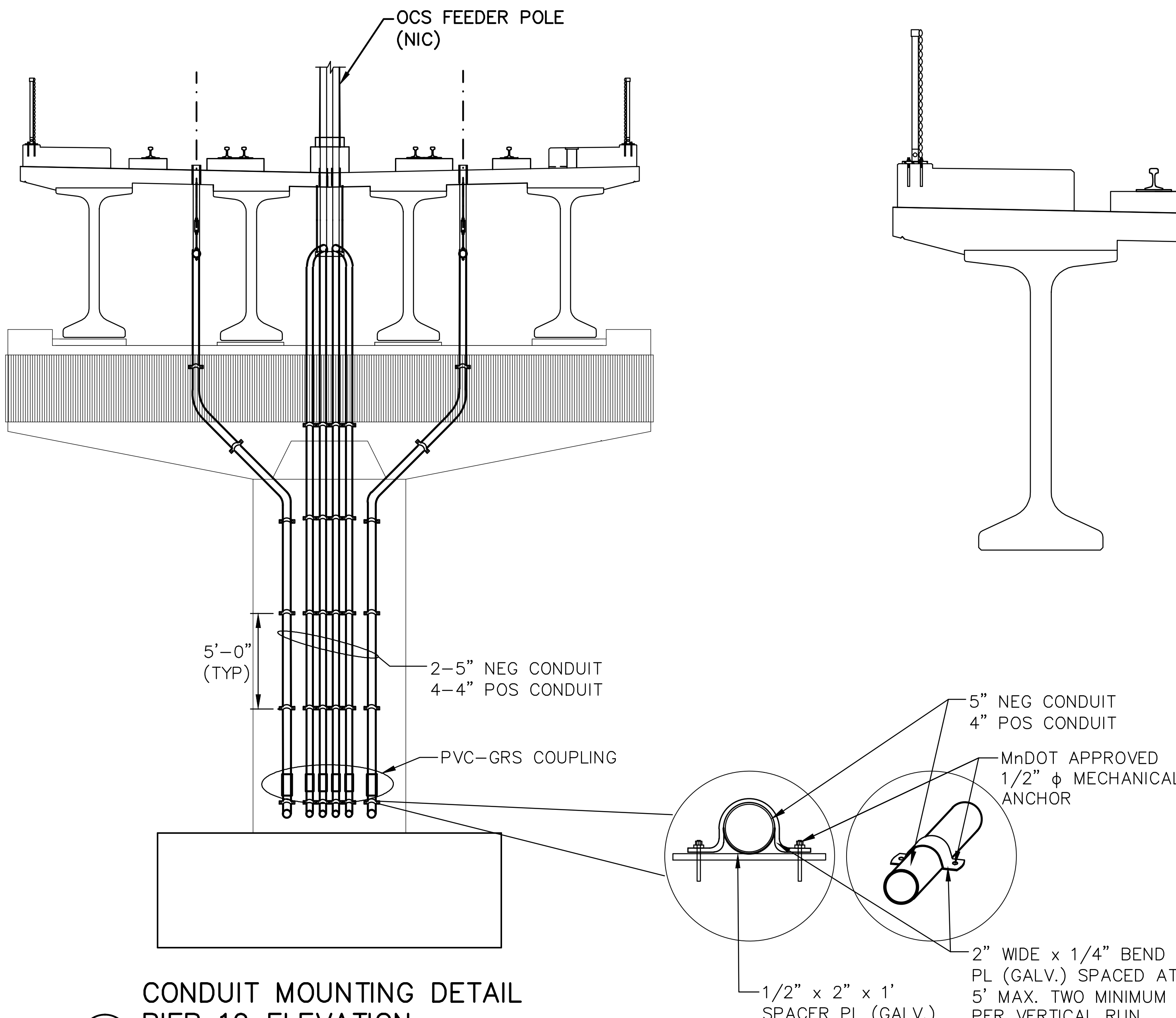
90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL | SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SUBSTATION SITE DETAILS
SUBSTATION SW305

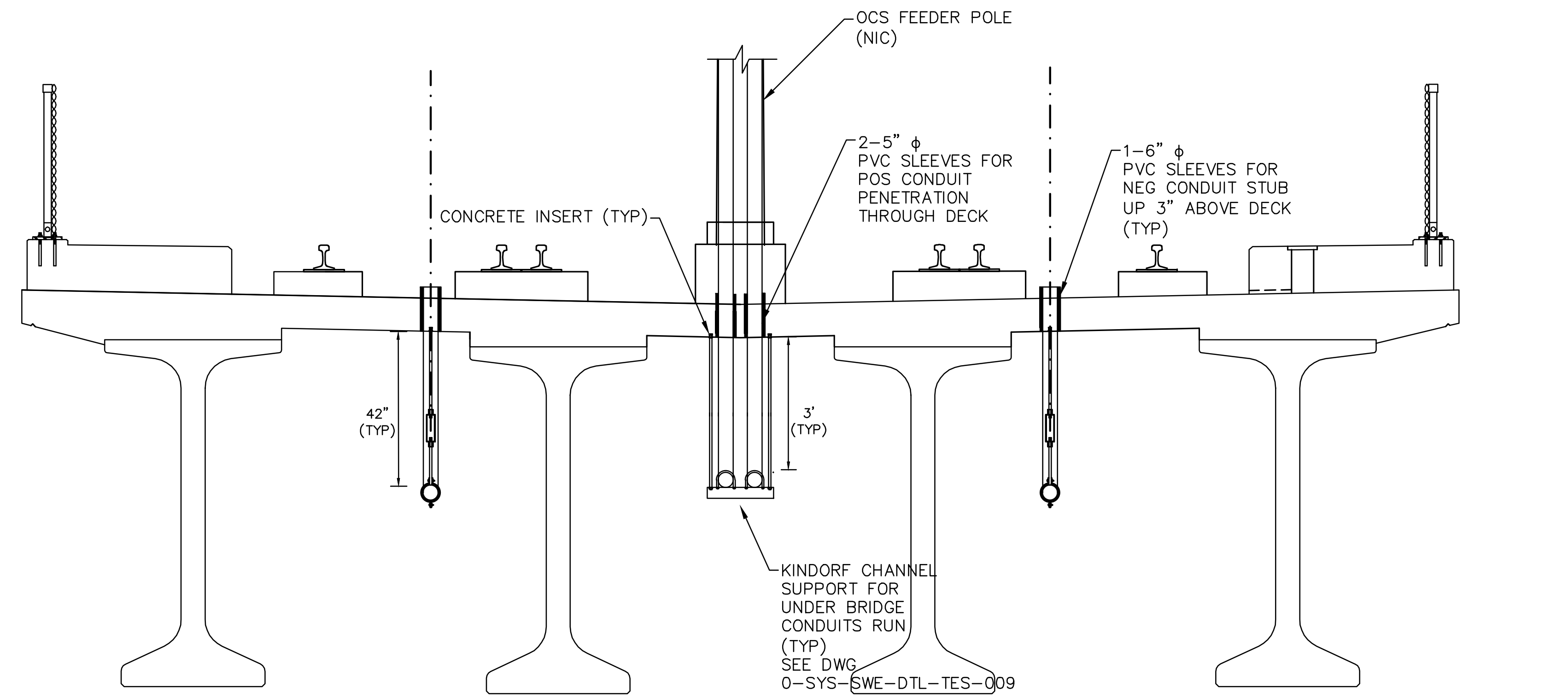
DISCIPLINE: SYSTEMS

SHEET NAME: 0-SYS-SWE-DTL-TES-005



CONDUIT MOUNTING DETAIL
PIER 19 ELEVATION

1 SCALE: 1"= 4'-0"



CONDUIT MOUNTING DETAIL SPAN 20
TRANSVERSE DECK SECTION (LOOKING EAST)

2 SCALE: 1"= 2'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SHADY OAK BRIDGE 27R34
TRANSVERSE SECTION DETAIL

DISCIPLINE: SYSTEMS

SHEET NAME: 0-SYS-SWE-DTL-TES-006

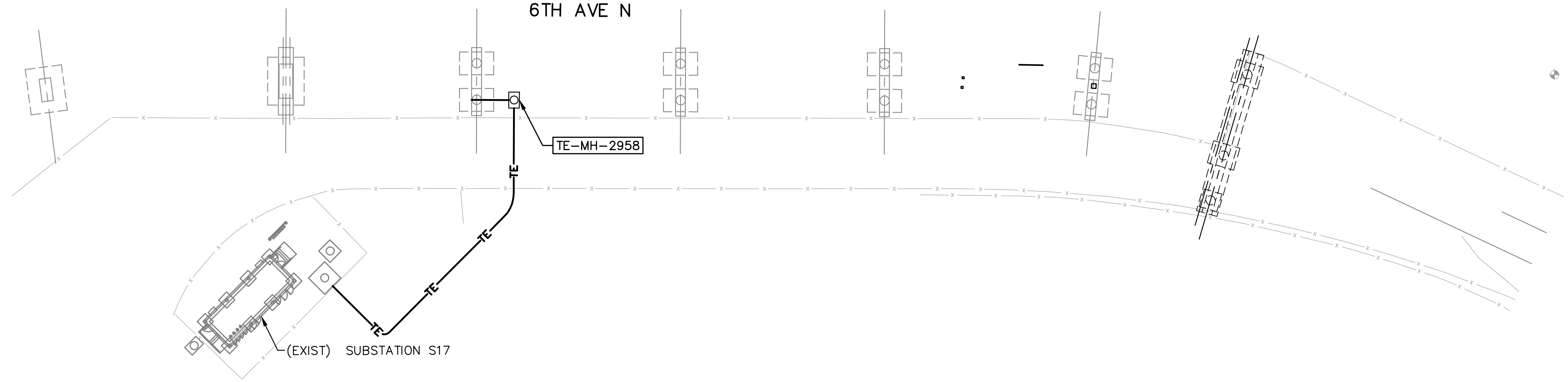
Jan. 18 2016 11:15 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\TRACTION POWER\0-SYS-TES-PND-005.dwg By: MillerJa

DUCTBANK/CONDUIT DETAIL GROUND LEVEL

1 SCALE: 1"= 30'-0"

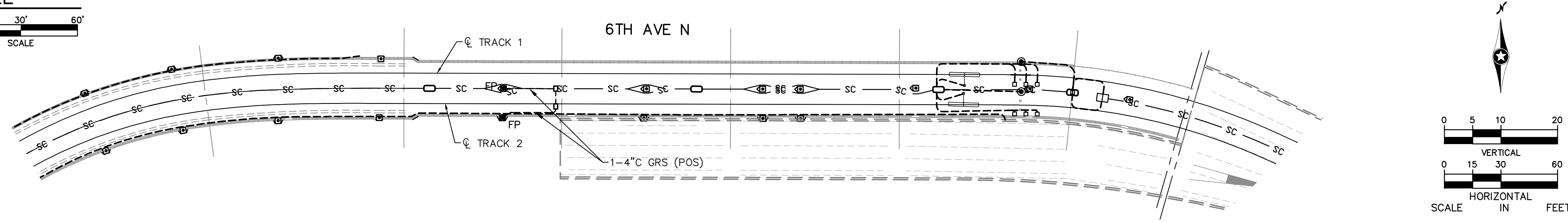
NOTES:

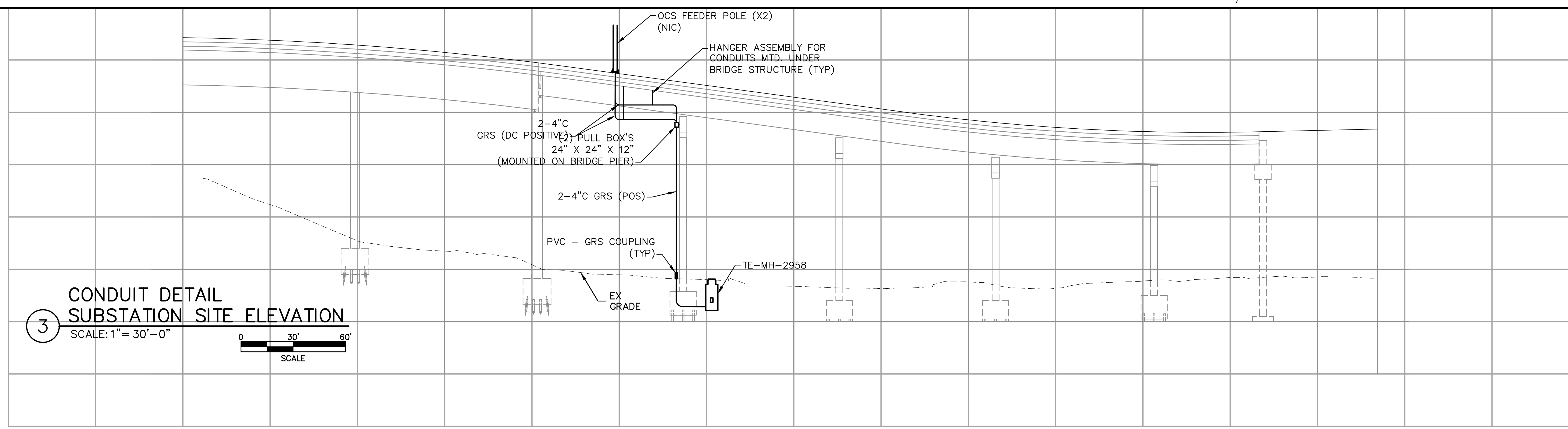
1. REFER TO SHEET 0-SYS-SWE-DTL-TES-008 FOR TRANSVERSE SECTION DETAILS.
2. REFER TO SHEET 0-SYS-SWE-DTL-TES-009 FOR TYPICAL RACEWAY MOUNTING DETAIL UNDER BRIDGE STRUCTURE.



CONDUIT DETAIL GUIDEWAY LEVEL

2 SCALE: 1"= 30'-0"





CONDUIT DETAIL SUBSTATION SITE ELEVATION

3 SCALE: 1"= 30'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

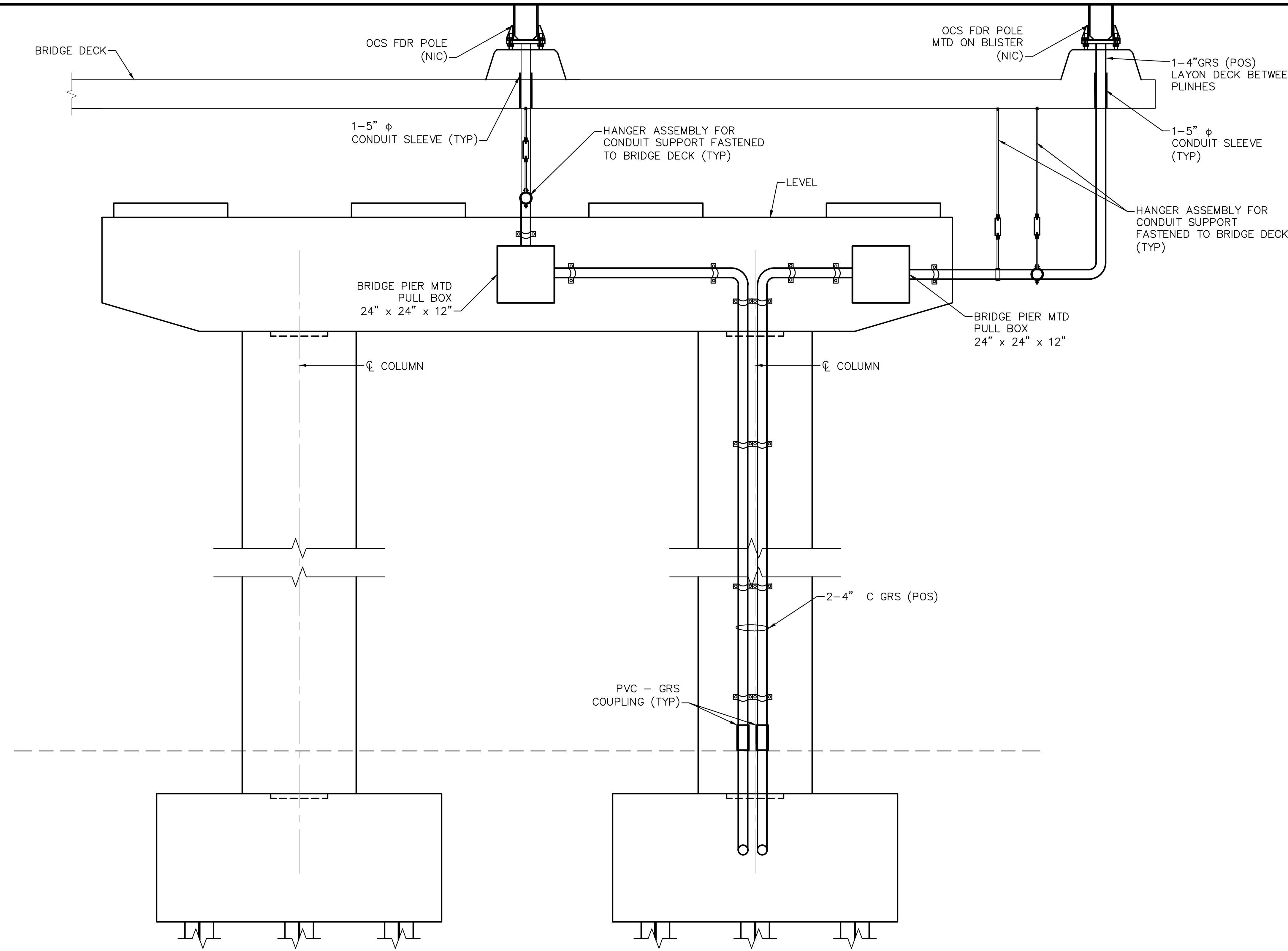
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
SUBSTATION SITE DETAIL
EXISTING SUBSTATION S17

DISCIPLINE: SYSTEMS

SHEET NAME: 0-SYS-SWE-DTL-TES-007

SHEET 387 OF 464



CONDUIT MOUNTING ELEVATION DETAIL
STA 1958+00 (LOOKING EAST)

1

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

0 2' 4'
SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM WSP PARSONS BRINCKERHOFF

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

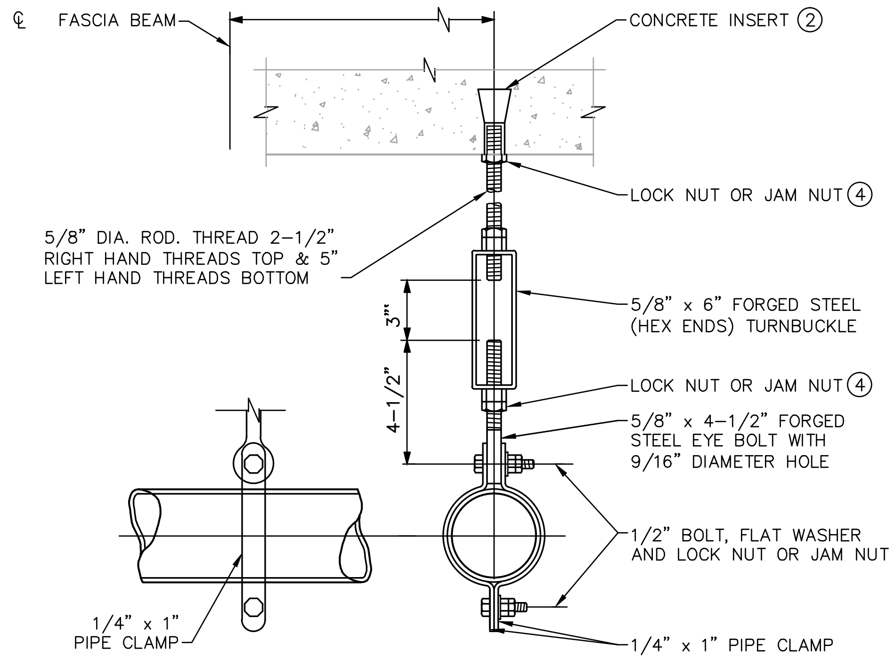
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
5TH AVE / 7 TH ST BRIDGE 27C18
TRANSVERSE SECTION DETAIL

DISCIPLINE: SYSTEMS

SHEET NAME: 0-SYS-SWE-DTL-TES-008

SHEET 388 OF 464

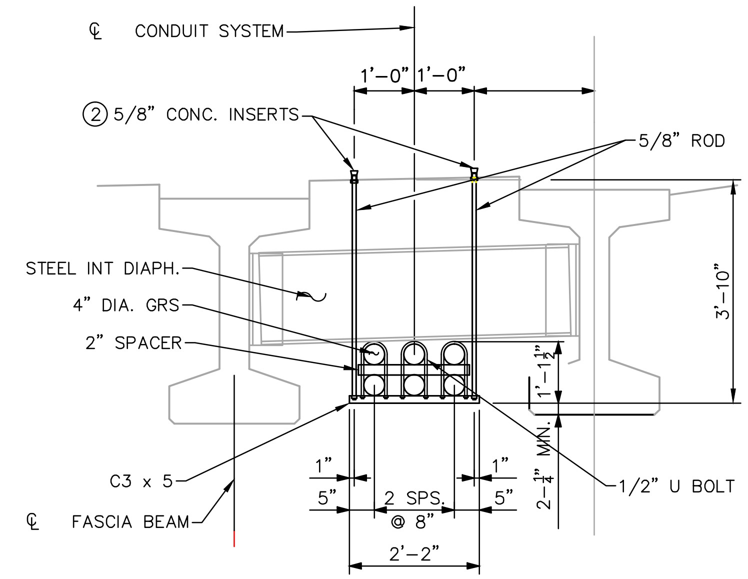
Jan, 18 2016 11:45 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\TRACTION POWER\0-SYS-SWE-DTL-TES-006.dwg By: MillerJa



EACH HANGER ASSEMBLY SHALL CONSIST OF CONCRETE INSERT, 5/8" DIA. ROD, PIPE CLAMPS, NUTS, BOLTS, WASHERS, TURNBUCKLE AND EYE BOLT

1 HANGER ASSEMBLY

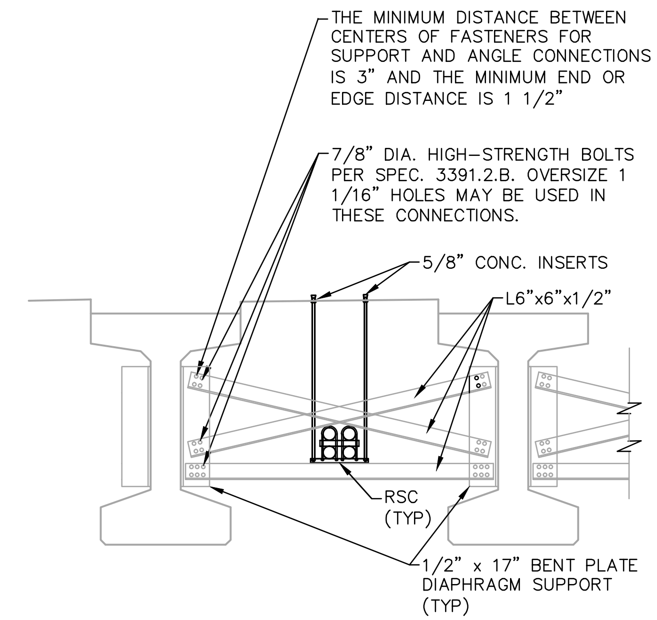
NOT TO SCALE



(FOR CONDUIT SYSTEM)

2 TRANSVERSE SECTION

NOT TO SCALE

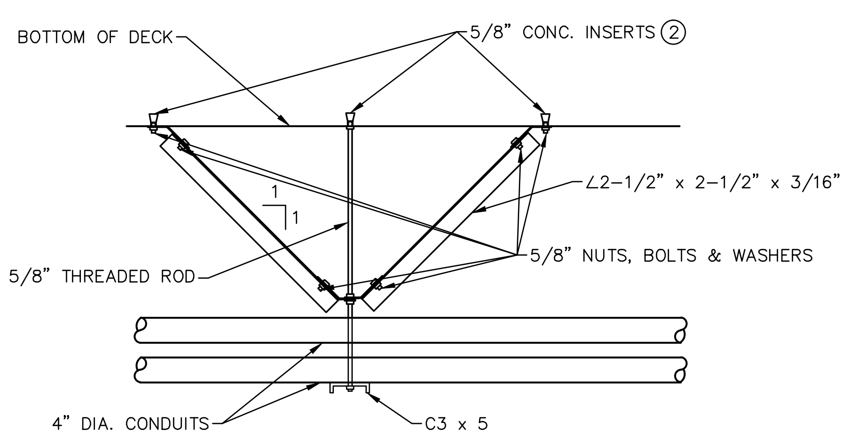


(MW &STEEL GIRDERS)

(FOR CONDUIT SYSTEM)

3 TRANSVERSE SECTION

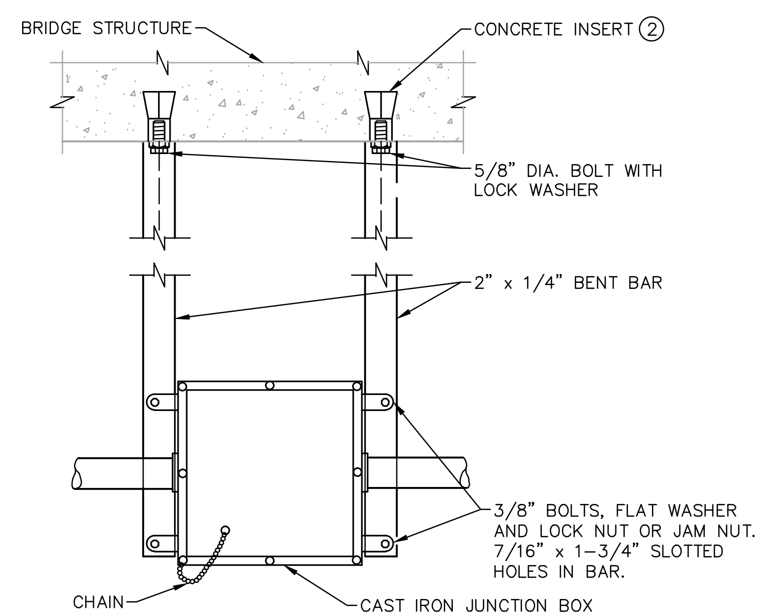
NOT TO SCALE



(LOCATED ONLY ON A HANGER ADJACENT TO PIER)

4 CENTERING DEVICE DETAIL – SIDE VIEW

NOT TO SCALE



5 JUNCTION BOX DETAILS

NOT TO SCALE

NOTE:

RODS, EYE BOLTS AND PIPE CLAMPS SHALL COMPLY WITH SPEC. 3313, TYPE I.

TURNBUCKLES AND EYE BOLTS SHALL COMPLY WITH A.S.T.M. A235 CLASS A MINIMUM REQUIREMENTS.

FLAT BARS AND ANCHORAGES SHALL COMPLY WITH SPEC. 3306.

CONCRETE INSERTS SHALL BE APPROVED TYPE MALLEABLE IRON. MATERIAL AS PER SPEC. 3324, GRADE 35018. TAP AFTER GALVANIZING.

GALVANIZE BOLTS, NUTS, WASHERS, TURNBUCKLES, RODS, EYE BOLTS, AND INSERTS AS PER SPEC. 3392. GALVANIZE OTHER MATERIAL AS PER SPEC. 3394 AFTER FABRICATION.

PIPE SLEEVES SHALL COMPLY WITH SPEC. 3362.

② SPACE INSERTS AT 10'-0" MAXIMUM CENTERS.

③ CAP ENDS.

④ DOUBLE NUTS OR JAM NUTS OR LOCK NUT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
TYPICAL RACEWAY MOUNTING DETAIL
UNDER BRIDGE STRUCTURE

DISCIPLINE: SYSTEMS

SHEET NAME: 0-SYS-SWE-DTL-TES-009

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
W208172A	2081+72	8.00	R	2	125180.6153	484361.8379	PA1G	–	–	–	FND-006	–	SEE NOTE 5
W208172B	2081+72	25.00	L	2	125209.6871	484346.2228	PA1G	–	–	–	FND-006	–	SEE NOTE 5
W208174	2081+74	7.00	L	2	125194.8940	484356.7216	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W208226A	2082+26	8.00	R	2	125206.2852	484409.6294	PA1D	–	–	–	FND-006	–	SEE NOTE 5
W208226B	2082+26	25.00	L	2	125235.3570	484394.0144	PA1D	–	–	–	FND-006	–	SEE NOTE 5
W208294A	2082+94	8.00	R	2	125238.2535	484469.1473	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W208294B	2082+94	25.00	L	2	125267.3253	484453.5323	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W208360A	2083+60	8.00	R	2	125269.2966	484526.9427	PA1E	–	–	–	FND-006	–	SEE NOTE 5
W208360B	2083+60	25.00	L	2	125298.3684	484511.3276	PA1E	–	–	–	FND-006	–	SEE NOTE 5
W208435	2084+35	7.00	L	2	125317.9999	484585.9172	PA1F	–	–	–	FND-006	–	SEE NOTE 5
W208455	2084+55	7.36	L	2	125327.7737	484603.3664	PA1	–	–	–	FND-007	–	SEE NOTE 5
W208500	2085+00	7.61	L	2	125348.6201	484643.6059	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W208519	2085+19	7.71	L	2	125356.9102	484661.8069	PA1	–	–	–	FND-007	–	SEE NOTE 5
W208555	2085+55	7.75	L	2	125369.3466	484695.8697	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208600	2086+00	8.51	L	2	125379.4279	484741.2205	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208645	2086+45	8.85	L	2	125380.7999	484787.7679	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208690	2086+90	8.88	L	2	125373.4937	484833.7913	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208735	2087+35	8.60	L	2	125357.7731	484877.6353	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208780	2087+80	8.02	L	2	125334.2322	484917.7363	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208825	2088+25	7.75	L	2	125304.8248	484953.2696	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208870	2088+70	7.83	L	2	125272.3488	484985.2564	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W208935	2089+35	7.25	L	2	125223.5872	485028.3900	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W209015	2090+15	7.00	L	2	125163.8741	485081.6292	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W209115	2091+15	7.00	L	2	125089.4483	485148.4183	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W209201	2092+01	7.04	L	2	125028.1728	485207.3271	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W209286	2092+86	7.03	L	2	124971.6591	485270.8372	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W209352	2093+52	7.41	L	2	124932.2067	485322.4946	PA1	–	–	–	FND-007	–	SEE NOTE 5
W209372	2093+72	7.00	L	2	124920.0675	485338.3893	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209482	2094+82	7.00	L	2	124855.1701	485427.2055	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209592	2095+92	7.00	L	2	124790.2728	485516.0218	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209612	2096+12	7.00	L	2	124778.4732	485532.1703	PA1	–	–	–	FND-007	–	SEE NOTE 5
W209667	2096+67	7.06	L	2	124746.3272	485576.7982	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209733	2097+33	7.25	L	2	124712.0854	485632.0461	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209793	2097+93	7.36	L	2	124686.8048	485686.4584	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209859	2098+59	7.37	L	2	124666.8349	485748.3129	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209925	2099+25	7.25	L	2	124654.8961	485812.2052	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W209991	2099+91	7.05	L	2	124650.9744	485877.0858	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W210076	2100+76	7.00	L	2	124651.7182	485962.0825	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210176	2101+76	7.00	L	2	124652.9812	486062.0745	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210301	2103+01	7.00	L	2	124654.5599	486187.0646	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210451	2104+51	7.00	L	2	124656.4544	486337.0526	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210576	2105+76	7.00	L	2	124658.0332	486462.0426	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210702	2107+02	7.01	L	2	124660.5592	486587.0170	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210817	2108+17	7.01	L	2	124668.7082	486701.7277	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W210937	2109+37	7.00	L	2	124683.5729	486820.8041	FD1A	TOR	–	9.00	FND-001	–	–
W211037B	2110+37	7.04	L	2	124697.1227	486919.8818	FA1	TOR	–	9.00	FND-003	–	–
W211037A	2110+37	8.00	R	2	124682.2196	486921.9140	FA1	TOR	–	9.00	FND-003	–	–
W211057B	2110+57	7.04	L	2	124699.8257	486939.6983	FD1C	TOR	–	15.00	FND-001	–	–
W211057A	2110+57	8.00	R	2	124684.9235	486941.7304	FD1C	TOR	–	15.00	FND-001	–	–
W211180	2111+80	9.17	L	2	124718.4504	487060.5412	FD1E	TOR	–	10.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 1

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-001

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W211320B	2113+20	18.59	L	2	124746.7004	487197.9846	FD1E	TOR	–	10.00	FND–001	–	–
W211320A	2113+20	8.00	L	2	124736.2094	487199.4152	FD1E	TOR	–	10.00	FND–001	–	–
W211460B	2114+60	22.37	L	2	124769.3645	487336.1755	FD1C	TOR	–	15.00	FND–001	–	–
W211460A	2114+60	8.00	L	2	124755.1241	487338.1278	FD1C	TOR	–	15.00	FND–001	–	–
W211480B	2114+80	22.37	L	2	124772.0667	487355.9921	FA1	TOR	–	9.00	FND–003	–	–
W211480A	2114+80	8.00	L	2	124757.8263	487357.9444	FA1	TOR	–	9.00	FND–003	–	–
W211600A	2116+00	8.00	R	2	124758.1868	487479.0095	FD1A	TOR	–	9.00	FND–001	–	–
W211600B	2116+00	38.38	L	2	124804.1367	487472.7438	FD1A	TOR	–	9.00	FND–001	–	–
W211740B	2117+40	38.38	L	2	124823.0518	487611.4601	FD1A	TOR	–	9.00	FND–001	–	–
W211740A	2117+40	8.00	R	2	124777.1021	487617.7258	FD1A	TOR	–	9.00	FND–001	–	–
W211890A	2118+90	8.00	L	2	124813.2218	487764.1887	FD1A	TOR	–	9.00	FND–001	–	–
W211890B	2118+90	22.38	L	2	124827.4662	487762.2572	FD1A	TOR	–	9.00	FND–001	–	–
W212040A	2120+40	8.00	L	2	124833.4878	487912.8108	FD1A	TOR	–	11.00	FND–001	–	–
W212040B	2120+40	17.95	L	2	124843.4177	487911.9656	FD1A	TOR	–	11.00	FND–001	–	–
W212175	2121+75	9.84	L	2	124853.5885	488046.2851	FD1A	TOR	–	11.00	FND–001	–	–
W212296	2122+96	8.67	L	2	124872.4596	488165.6398	FD1A	TOR	–	11.00	FND–001	–	–
W212392	2123+92	8.07	L	2	124895.3481	488258.5254	FD1A	TOR	–	11.00	FND–001	–	–
W212489	2124+89	7.42	L	2	124925.5401	488349.2477	FD1A	TOR	–	11.00	FND–001	–	–
W212604	2126+04	7.01	L	2	124969.4905	488455.9364	FD1A	TOR	–	11.00	FND–001	–	–
W212720	2127+20	7.25	L	2	125015.5169	488561.4186	FD1A	TOR	–	11.00	FND–001	–	–
W212806	2128+06	7.50	L	2	125053.1643	488638.3559	FD1A	TOR	–	11.00	FND–001	–	–
W212873	2128+73	7.60	L	2	125088.5488	488693.9656	FD1A	TOR	–	11.00	FND–001	–	–
W212940	2129+40	7.77	L	2	125130.9699	488744.5013	FD1A	TOR	–	11.00	FND–001	–	–
W213007	2130+07	7.82	L	2	125179.5724	488789.1444	FD1A	TOR	–	11.00	FND–001	–	–
W213074	2130+74	7.73	L	2	125233.5314	488827.1345	FD1A	TOR	–	11.00	FND–001	–	–
W213141	2131+41	7.51	L	2	125291.9276	488857.8294	FD1A	TOR	–	11.00	FND–001	–	–
W213188	2131+88	7.69	L	2	125335.2950	488874.4780	FA1	TOR	–	11.00	FND–003	–	–
W213203	2132+03	7.66	L	2	125349.5324	488879.1997	FD1B	TOR	–	12.00	FND–001	–	–
W213309	2133+09	7.00	L	2	125450.7275	488906.9196	FD1A	TOR	–	11.00	FND–001	–	–
W213418	2134+18	7.20	L	2	125557.3786	488932.7324	FD1C	TOR	–	15.00	FND–001	–	–
W213438	2134+38	7.17	L	2	125576.7872	488937.5599	FA1	TOR	–	11.00	FND–003	–	–
W213542	2135+42	6.81	L	2	125677.5266	488964.2650	FD1A	TOR	–	11.00	FND–001	–	–
W213667	2136+67	6.87	L	2	125796.4085	489000.9871	FD1A	TOR	–	11.00	FND–001	–	–
W213797	2137+97	7.41	L	2	125918.5572	489046.8224	FD1A	TOR	–	11.00	FND–001	–	–
W213927	2139+27	7.53	L	2	126037.3128	489100.8932	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W214057	2140+57	7.62	L	2	126152.2955	489162.5962	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W214187	2141+87	7.68	L	2	126263.0136	489231.6688	FD3A	TOR	13.00	11.00	FND–004	–	–
W214322	2143+22	7.70	L	2	126372.9702	489310.8833	FD3A	TOR	13.00	11.00	FND–004	–	–
W214457	2144+57	7.69	L	2	126477.3101	489397.3625	FD3A	TOR	11.00	11.00	FND–004	–	–
W214592	2145+92	7.64	L	2	126575.5526	489490.7079	FD3A	TOR	7.00	11.00	FND–004	–	–
W214727	2147+27	7.56	L	2	126667.2452	489590.4887	FD1A	TOR	–	11.00	FND–001	–	–
W214862	2148+62	7.25	L	2	126751.8147	489696.3577	FD1A	TOR	–	11.00	FND–001	–	–
W214997	2149+97	7.00	L	2	126829.0853	489807.6430	FD1A	TOR	–	11.00	FND–001	–	–
W215112A	2151+12	6.74	L	2	126888.8431	489906.4410	FA1	TOR	–	11.00	FND–003	–	–
W215112B	2151+12	22.19	L	2	126902.3967	489899.0202	FA1	TOR	–	11.00	FND–003	–	–
W215132A	2151+32	6.50	L	2	126898.4587	489923.9734	FD1C	TOR	–	15.00	FND–001	–	–
W215132B	2151+32	22.18	L	2	126912.2148	489916.4400	FD1C	TOR	–	15.00	FND–001	–	–
W215254	2152+54	6.80	L	2	126956.2745	490031.7015	FD1E	TOR	–	12.00	FND–001	–	–
W215404B	2154+04	22.00	L	2	127038.1596	490158.2936	FD1D	TOR	–	11.00	FND–001	–	–
W215404A	2154+04	8.00	R	2	127011.4492	490171.9522	FD1D	TOR	–	11.00	FND–001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 2

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-002

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
W215517B	2155+17	21.75	L	2	127089.9394	490257.3655	FD1C	TOR	–	15.00	FND-001	–	–
W215517A	2155+17	6.76	L	2	127076.8178	490264.6209	FD3C	TOR	13.00	15.00	FND-004	–	–
W215537A	2155+37	6.76	L	2	127086.5829	490282.0704	FA3	TOR	14.00	11.00	FND-005	–	–
W215537B	2155+37	21.75	L	2	127099.7085	490274.8173	FA1	TOR	–	11.00	FND-003	–	–
W215627	2156+27	6.81	L	2	127132.9039	490359.6431	FD3A	TOR	21.00	11.00	FND-004	–	–
W215753	2157+53	7.00	L	2	127202.4428	490463.8516	FD3A	TOR	27.00	11.00	FND-004	–	–
W215903	2159+03	7.00	L	2	127287.5132	490587.4476	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216063	2160+63	7.00	L	2	127378.2287	490719.2455	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216223	2162+23	7.00	L	2	127468.9445	490851.0432	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216343	2163+43	7.01	L	2	127537.0037	490949.8557	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216428	2164+28	7.08	L	2	127586.2450	491018.8270	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216513	2165+13	7.58	L	2	127639.2417	491084.7808	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216598	2165+98	7.70	L	2	127697.3080	491146.2168	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216683	2166+83	7.74	L	2	127760.4386	491201.8096	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216768	2167+68	7.75	L	2	127828.4985	491251.4485	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W216833	2168+33	7.76	L	2	127883.2618	491284.9206	FA3	TOR	23.00	11.00	FND-005	–	–
W216853	2168+53	7.75	L	2	127900.7666	491294.5578	FD3C	TOR	22.00	15.00	FND-004	–	–
W216938	2169+38	7.61	L	2	127976.9491	491331.0947	FD1B	TOR	–	12.00	FND-001	–	–
W217023B	2170+23	23.13	L	2	128060.4298	491346.4664	FD1C	TOR	–	15.00	FND-001	–	–
W217023A	2170+23	7.00	R	2	128051.0424	491375.1064	FD1C	TOR	–	15.00	FND-001	–	–
W217038B	2170+38	23.20	L	2	128074.6255	491351.3122	FA1	TOR	–	11.00	FND-003	–	–
W217038A	2170+38	6.94	R	2	128065.2381	491379.9522	FA1	TOR	–	11.00	FND-003	–	–
W217118	2171+18	7.14	L	2	128145.9046	491391.6276	FD1A	TOR	–	11.00	FND-001	–	–
W217242	2172+42	7.00	L	2	128263.0110	491429.3386	FD3A	TOR	19.00	11.00	FND-004	–	–
W220626	2206+26	6.93	L	2	128410.3908	491476.6767	FD3A	TOR	14.00	11.00	FND-004	–	–
W220785	2207+85	7.16	L	2	128561.2102	491523.8462	FD3A	TOR	11.00	11.00	FND-004	–	–
W220925	2209+25	7.16	L	2	128696.1982	491559.4976	FD3A	TOR	9.00	11.00	FND-004	–	–
W221045	2210+45	7.15	L	2	128813.2822	491584.2502	FD3A	TOR	9.00	11.00	FND-004	–	–
W221145	2211+45	7.00	L	2	128911.6325	491601.7675	FD3A	TOR	9.00	11.00	FND-004	–	–
W221225	2212+25	6.55	L	2	128990.4304	491616.3674	FD3A	TOR	10.00	11.00	FND-004	–	–
W221285	2212+85	7.23	L	2	129049.4293	491630.4769	FD3B	TOR	11.00	12.00	FND-004	–	–
W221345	2213+45	7.93	L	2	129106.5167	491652.4235	FD3B	TOR	12.00	12.00	FND-004	–	–
W221402	2214+02	8.18	L	2	129157.0021	491681.3681	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W221459	2214+59	8.26	L	2	129202.7710	491717.3527	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W221516	2215+16	8.16	L	2	129242.8274	491759.6014	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W221573	2215+73	7.89	L	2	129276.3081	491807.1932	PA1B	–	–	–	FND-006	–	SEE NOTE 5
W221610	2216+10	7.33	L	2	129294.0851	491840.9199	PA1	–	–	–	FND-007	–	SEE NOTE 5
W221630	2216+30	7.46	L	2	129302.5062	491859.0563	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W221667	2216+67	6.72	L	2	129315.3444	491894.4282	PA1	–	–	–	FND-007	–	SEE NOTE 5
W221687	2216+87	6.60	L	2	129321.5622	491913.4330	PA1F	–	–	–	FND-006	–	SEE NOTE 5
W221757	2217+57	7.00	L	2	129341.9240	491980.5448	PA1E	–	–	–	FND-006	–	SEE NOTE 5
W221827	2218+27	7.36	L	2	129361.7541	492047.6773	PA1E	–	–	–	FND-006	–	SEE NOTE 5
W221898	2218+98	7.22	L	2	129383.0424	492114.3919	PA1F	–	–	–	FND-006	–	SEE NOTE 5
W221918	2219+18	7.25	L	2	129390.3366	492133.0101	PA1	–	–	–	FND-007	–	SEE NOTE 5
W221968	2219+68	7.17	L	2	129411.1848	492178.5252	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W221989	2219+89	7.29	L	2	129420.7007	492196.1119	PA1	–	–	–	FND-007	–	SEE NOTE 5
W222039	2220+39	7.22	L	2	129446.7916	492238.8592	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W222113	2221+13	7.46	L	2	129491.0368	492296.7688	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W222213	2222+13	7.00	L	2	129555.4300	492372.8547	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W222347	2223+47	7.00	L	2	129642.8089	492474.7862	PA1A	–	–	–	FND-006	–	SEE NOTE 5

NOTES:

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3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 3

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-003

SHEET 392 OF 464

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W222504	2225+04	7.00	L	2	129745.0050	492594.0026	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W222692	2226+92	7.00	L	2	129867.3611	492736.7365	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W222832	2228+32	7.00	L	2	129958.4773	492843.0277	FD3A	TOR	26.00	14.00	FND–004	–	–
W222933	2229+33	6.93	L	2	130024.1600	492919.7528	FD3A	TOR	26.00	14.00	FND–004	–	–
W223015	2230+15	7.46	L	2	130078.7937	492980.1046	FD3B	TOR	24.00	16.00	FND–004	–	–
W223087	2230+87	7.75	L	2	130131.0488	493027.9713	FD3B	TOR	17.00	16.00	FND–004	–	–
W223159	2231+59	7.94	L	2	130189.0657	493068.8212	FD1B	TOR	–	16.00	FND–001	–	–
W223211	2232+11	7.99	L	2	130233.7636	493093.3947	FA1	TOR	–	14.00	FND–003	–	–
W223231	2232+31	8.00	L	2	130251.8777	493101.8636	FD1C	TOR	–	18.00	FND–001	–	–
W223303	2233+03	7.93	L	2	130318.4233	493126.5363	FD1C	TOR	–	18.00	FND–001	–	–
W223375	2233+75	7.74	L	2	130387.5750	493142.4253	FD1C	TOR	–	18.00	FND–001	–	–
W223395	2233+95	7.66	L	2	130407.3665	493145.2785	FA1	TOR	–	14.00	FND–003	–	–
W223447	2234+47	7.34	L	2	130458.0744	493149.4765	FD1A	TOR	–	14.00	FND–001	–	–
W223518B	2235+18	7.06	L	2	130528.4420	493150.1638	FA1	TOR	–	14.00	FND–003	–	–
W223518A	2235+18	6.94	R	2	130528.6426	493164.1624	FA1	TOR	–	14.00	FND–003	–	–
W223538A	2235+38	7.06	R	2	130548.6381	493164.0010	FD1B	TOR	–	16.00	FND–001	–	–
W223538B	2235+38	6.94	L	2	130548.4374	493150.0024	FD1B	TOR	–	16.00	FND–001	–	–
W223630B	2236+30	22.00	L	2	130640.5080	493133.6229	FD1E	TOR	–	16.00	FND–001	–	–
W223630A	2236+30	8.00	R	2	130640.9380	493163.6156	FD1E	TOR	–	16.00	FND–001	–	–
W223694A	2236+94	8.00	R	2	130705.1283	493162.6976	FD1C	TOR	–	18.00	FND–001	–	–
W223694B	2236+94	22.00	L	2	130704.6983	493132.7006	FD1C	TOR	–	18.00	FND–001	–	–
W223757A	2237+57	8.00	R	2	130768.4386	493161.7879	FD1E	TOR	–	16.00	FND–001	–	–
W223757B	2237+57	22.00	L	2	130768.0087	493131.7952	FD1E	TOR	–	16.00	FND–001	–	–
W223873B	2238+73	7.17	L	2	130883.4156	493144.9726	FD1C	TOR	–	18.00	FND–001	–	–
W223873A	2238+73	7.50	R	2	130883.6273	493159.6386	FD1C	TOR	–	18.00	FND–001	–	–
W223893B	2238+93	7.22	L	2	130903.4088	493144.6388	FA1	TOR	–	14.00	FND–003	–	–
W223893A	2238+93	7.45	R	2	130903.6206	493159.3049	FA1	TOR	–	14.00	FND–003	–	–
W223968	2239+68	8.26	L	2	130978.8429	493142.4903	FD1A	TOR	–	14.00	FND–001	–	–
W224059B	2240+59	15.56	L	2	131068.8932	493131.2112	FD1A	TOR	–	14.00	FND–001	–	–
W224059A	2240+59	8.00	L	2	131069.5376	493138.7392	FD1A	TOR	–	14.00	FND–001	–	–
W224167	2241+67	40.98	L	2	131169.0064	493091.2925	FD1A	TOR	–	14.00	FND–001	–	–
W224172	2241+72	10.66	R	2	131183.3092	493141.1104	FD1A	TOR	–	14.00	FND–001	–	–
W224312B	2243+12	38.38	L	2	131310.4075	493063.7358	FD1A	TOR	–	14.00	FND–001	–	–
W224312A	2243+12	8.00	R	2	131320.2211	493109.0606	FD1A	TOR	–	14.00	FND–001	–	–
W224472B	2244+72	38.38	L	2	131466.7841	493029.8777	FD1A	TOR	–	14.00	FND–001	–	–
W224472A	2244+72	8.00	R	2	131476.5976	493075.2025	FD1A	TOR	–	14.00	FND–001	–	–
W224632B	2246+32	22.33	L	2	131626.5465	493011.6573	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W224632A	2246+32	8.00	L	2	131629.6384	493025.6454	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W224808B	2248+08	17.77	L	2	131797.5937	492974.6228	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W224808A	2248+08	8.00	L	2	131800.1168	492984.0603	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W224968	2249+68	8.60	L	2	131954.0924	492941.3285	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W225087	2250+87	7.02	L	2	132071.0441	492914.5461	PA1	–	–	–	FND–007	–	SEE NOTE 5
W225107	2251+07	7.05	L	2	132090.5789	492910.2758	PA1C	–	–	–	FND–006	–	SEE NOTE 5
W225227	2252+27	6.93	L	2	132208.1899	492887.8032	PA1	–	–	–	FND–007	–	SEE NOTE 5
W225247	2252+47	7.00	L	2	132227.8819	492884.3294	PA1F	–	–	–	FND–006	–	SEE NOTE 5
W225427	2254+27	7.00	L	2	132405.2713	492853.7845	PA1E	–	–	–	FND–006	–	SEE NOTE 5
W225607	2256+07	7.00	L	2	132582.6607	492823.2395	PA1F	–	–	–	FND–006	–	SEE NOTE 5
W225627	2256+27	6.99	L	2	132602.3692	492819.8603	PA1	–	–	–	FND–007	–	SEE NOTE 5
W225787	2257+87	7.00	L	2	132760.0501	492792.6946	PA1C	–	–	–	FND–006	–	SEE NOTE 5
W225807	2258+07	6.99	L	2	132779.7586	492789.3154	PA1	–	–	–	FND–007	–	SEE NOTE 5

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
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3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W226007	2260+07	7.00	L	2	132976.8594	492755.3619	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W226227	2262+27	7.00	L	2	133193.6687	492718.0292	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W226407	2264+07	7.00	L	2	133371.0582	492687.4843	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W226547	2265+47	6.62	L	2	133509.1762	492664.2726	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W226647	2266+47	6.23	L	2	133608.7268	492651.2805	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W226727	2267+27	7.04	L	2	133689.2273	492646.2948	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W226807	2268+07	7.12	L	2	133769.8796	492650.3697	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W226897	2268+97	7.12	L	2	133859.5000	492665.2929	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W226987	2269+87	7.01	L	2	133946.6512	492690.9424	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W227077	2270+77	6.88	L	2	134030.2400	492726.0244	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W227187	2271+87	6.61	L	2	134128.5252	492776.1429	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W227297	2272+97	7.01	L	2	134225.8943	492827.3443	PA1	–	–	–	FND–007	–	SEE NOTE 5
W227317	2273+17	7.00	L	2	134243.5513	492836.7290	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W227487	2274+87	7.00	L	2	134393.7189	492916.4139	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W227687	2276+87	7.00	L	2	134570.3868	493010.1607	FD1B	TOR	–	10.00	FND–001	–	–
W227707	2277+07	6.99	L	2	134588.0457	493019.5418	FA1	TOR	–	9.00	FND–003	–	–
W227907	2279+07	7.00	L	2	134764.3275	493113.0732	FD1A	TOR	–	9.00	FND–001	–	–
W228107	2281+07	7.00	L	2	134941.3893	493207.0291	FD1A	TOR	–	9.00	FND–001	–	–
W228278	2282+78	7.04	L	2	135092.4428	493285.5435	FD1A	TOR	–	9.00	FND–001	–	–
W228408	2284+08	7.09	L	2	135211.0480	493339.6587	FD1A	TOR	–	9.00	FND–001	–	–
W228509	2285+09	7.11	L	2	135304.1045	493377.0333	FD1A	TOR	–	9.00	FND–001	–	–
W228585	2285+85	7.60	L	2	135375.2034	493402.1761	FD1A	TOR	–	9.00	FND–001	–	–
W228646	2286+46	8.58	L	2	135433.8568	493418.6822	FD1A	TOR	–	9.00	FND–001	–	–
W228709	2287+09	10.22	L	2	135494.4637	493427.7284	FD1A	TOR	–	9.00	FND–001	–	–
W228772B	2287+72	15.32	L	2	135555.6413	493424.8005	FD1A	TOR	–	9.00	FND–001	–	–
W228772A	2287+72	8.00	L	2	135555.8930	493432.1202	FD1A	TOR	–	9.00	FND–001	–	–
W228835B	2288+35	17.80	L	2	135616.0645	493415.9605	FD1A	TOR	–	9.00	FND–001	–	–
W228835A	2288+35	8.00	L	2	135617.9389	493425.5811	FD1A	TOR	–	9.00	FND–001	–	–
W228899A	2288+99	8.00	L	2	135678.2245	493410.4437	FD1A	TOR	–	9.00	FND–001	–	–
W228899B	2288+99	19.80	L	2	135674.7685	493399.1629	FD1A	TOR	–	9.00	FND–001	–	–
W228963A	2289+63	8.00	L	2	135736.4621	493386.6681	FD1A	TOR	–	9.00	FND–001	–	–
W228963B	2289+63	21.27	L	2	135730.7240	493374.7016	FD1A	TOR	–	9.00	FND–001	–	–
W229027A	2290+27	8.00	L	2	135790.8926	493354.7578	FD1A	TOR	–	9.00	FND–001	–	–
W229027B	2290+27	22.19	L	2	135782.9280	493343.0131	FD1A	TOR	–	9.00	FND–001	–	–
W229091A	2290+91	8.00	L	2	135840.3001	493315.3535	FD1A	TOR	–	9.00	FND–001	–	–
W229091B	2290+91	22.54	L	2	135830.4523	493304.6610	FD1A	TOR	–	9.00	FND–001	–	–
W229145B	2291+45	22.45	L	2	135866.2786	493268.1243	FA1	TOR	–	9.00	FND–003	–	–
W229145A	2291+45	8.00	L	2	135877.1826	493277.6040	FA1	TOR	–	9.00	FND–003	–	–
W229165A	2291+65	8.00	L	2	135890.4203	493262.6172	FD1C	TOR	–	14.00	FND–001	–	–
W229165B	2291+65	22.40	L	2	135879.5516	493253.1688	FD1C	TOR	–	14.00	FND–001	–	–
W229265B	2292+65	22.38	L	2	135944.5508	493177.4615	FD1D	TOR	–	9.00	FND–001	–	–
W229265A	2292+65	8.00	L	2	135955.4653	493186.8164	FD1D	TOR	–	9.00	FND–001	–	–
W229405B	2294+05	22.37	L	2	136035.5136	493071.3356	FD1D	TOR	–	9.00	FND–001	–	–
W229405A	2294+05	8.00	L	2	136046.6586	493080.4200	FD1D	TOR	–	9.00	FND–001	–	–
W229515A	2295+15	8.00	L	2	136118.1597	492996.9993	FD1C	TOR	–	14.00	FND–001	–	–
W229515B	2295+15	22.38	L	2	136107.2452	492987.6444	FD1C	TOR	–	14.00	FND–001	–	–
W229535A	2295+35	8.00	L	2	136131.1727	492981.8170	FA1	TOR	–	9.00	FND–003	–	–
W229535B	2295+35	22.38	L	2	136120.2582	492972.4620	FA1	TOR	–	9.00	FND–003	–	–
W229640A	2296+40	11.00	R	2	136213.9330	492914.4556	FD1A	TOR	–	10.00	FND–001	–	SEE NOTE 4
W229640B	2296+40	38.38	L	2	136176.4441	492882.3234	FD1A	TOR	–	10.00	FND–001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W229765A	2297+65	11.00	R	2	136295.2802	492819.5470	FD1A	TOR	–	10.00	FND–001	–	SEE NOTE 4
W229765B	2297+65	38.38	L	2	136257.7914	492787.4149	FD1A	TOR	–	10.00	FND–001	–	–
W229915A	2299+15	8.00	L	2	136378.4708	492693.2920	FD1A	TOR	–	10.00	FND–001	–	–
W229915B	2299+15	22.37	L	2	136367.5549	492683.9421	FD1A	TOR	–	10.00	FND–001	–	–
W230035B	2300+35	19.90	L	2	136447.2828	492594.7205	FD1A	TOR	–	10.00	FND–001	–	–
W230035A	2300+35	8.00	L	2	136456.5474	492602.1993	FD1A	TOR	–	10.00	FND–001	–	–
W230155A	2301+55	8.00	L	2	136534.5517	492511.1910	FD1A	TOR	–	10.00	FND–001	–	–
W230155B	2301+55	14.16	L	2	136529.8773	492507.1854	FD1A	TOR	–	10.00	FND–001	–	–
W230266	2302+66	9.77	L	2	136605.5367	492425.6488	FD1A	TOR	–	10.00	FND–001	–	–
W230366	2303+66	9.75	L	2	136670.8600	492349.4978	FD1A	TOR	–	10.00	FND–001	–	–
W230445	2304+45	9.76	L	2	136723.4540	492290.1125	FD1A	TOR	–	10.00	FND–001	–	–
W231115	2311+15	9.38	L	2	137324.4307	492021.1825	FA1	TOR	–	9.00	FND–003	–	–
W231135	2311+35	9.77	L	2	137344.4253	492020.9412	FD1C	TOR	–	14.00	FND–001	–	–
W231230	2312+30	9.75	L	2	137439.8944	492026.1949	FD1A	TOR	–	10.00	FND–001	–	–
W231355	2313+55	9.75	L	2	137564.4877	492037.0401	FD1B	TOR	–	13.00	FND–001	–	–
W231375	2313+75	9.66	L	2	137584.3990	492038.8794	FA1	TOR	–	9.00	FND–003	–	–
W231520	2315+20	9.71	L	2	137728.8157	492051.4148	FD1A	TOR	–	10.00	FND–001	–	–
W231685	2316+85	9.16	L	2	137893.0610	492062.6834	FD1A	TOR	–	10.00	FND–001	–	–
W231870	2318+70	8.67	L	2	138077.6826	492067.2809	FD1A	TOR	–	12.00	FND–001	–	–
W232025B	2320+25	13.10	L	2	138232.5233	492064.0565	FA1	TOR	–	12.00	FND–003	–	–
W232025A	2320+25	7.85	L	2	138232.6733	492069.3110	FA1	TOR	–	12.00	FND–003	–	–
W232045B	2320+45	13.51	L	2	138252.5177	492063.7969	FD1C	TOR	–	15.00	FND–001	–	–
W232045A	2320+45	8.00	L	2	138252.6693	492069.3110	FD1C	TOR	–	15.00	FND–001	–	–
W233634B	2336+34	18.62	L	2	138397.0964	492059.8139	FD1D	TOR	–	12.00	FND–001	–	–
W233634A	2336+34	8.00	L	2	138397.6650	492070.4358	FD1D	TOR	–	12.00	FND–001	–	–
W233779B	2337+79	22.12	L	2	138542.5640	492057.4449	FD1D	TOR	–	12.00	FND–001	–	–
W233779A	2337+79	8.00	L	2	138542.6606	492071.5606	FD1D	TOR	–	12.00	FND–001	–	–
W233924B	2339+24	22.38	L	2	138687.7678	492058.3108	FD1C	TOR	–	15.00	FND–001	–	–
W233924A	2339+24	8.00	L	2	138687.6563	492072.6854	FD1C	TOR	–	15.00	FND–001	–	–
W233944B	2339+44	22.20	L	2	138707.7612	492058.6370	FA1	TOR	–	12.00	FND–003	–	–
W233944A	2339+44	7.83	L	2	138707.6497	492073.0115	FA1	TOR	–	12.00	FND–003	–	–
W234084B	2340+84	38.38	L	2	138847.8871	492043.5524	FD1A	TOR	–	12.00	FND–001	–	–
W234084A	2340+84	8.00	R	2	138847.5273	492089.9260	FD1A	TOR	–	12.00	FND–001	–	–
W234244B	2342+44	38.38	L	2	139007.8823	492044.7936	FD1A	TOR	–	12.00	FND–001	–	–
W234244A	2342+44	8.00	R	2	139007.5225	492091.1672	FD1A	TOR	–	12.00	FND–001	–	–
W234404B	2344+04	21.29	L	2	139167.1344	492062.5747	FD1A	TOR	–	12.00	FND–001	–	–
W234404A	2344+04	8.00	L	2	139167.5137	492075.8626	FD1A	TOR	–	12.00	FND–001	–	–
W234554	2345+54	10.15	L	2	139317.2765	492070.3762	FD1A	TOR	–	12.00	FND–001	–	–
W234674A	2346+74	8.00	R	2	139437.5108	492086.5243	FA1	TOR	–	12.00	FND–003	–	–
W234674B	2346+74	22.41	L	2	139437.6804	492056.1102	FA1	TOR	–	12.00	FND–003	–	–
W234694A	2346+94	8.00	R	2	139457.5069	492086.5384	FD1A	TOR	–	12.00	FND–001	–	–
W234694B	2346+94	22.14	L	2	139457.6743	492056.4035	FD1A	TOR	–	12.00	FND–001	–	–
W234819B	2348+19	21.50	L	2	139582.6996	492057.9404	FD1D	TOR	–	12.00	FND–001	–	–
W234819A	2348+19	7.50	R	2	139582.4746	492086.9395	FD1D	TOR	–	12.00	FND–001	–	–
W234882B	2348+82	22.00	L	2	139645.1366	492057.9247	FD1C	TOR	–	15.00	FND–001	–	–
W234882A	2348+82	8.00	R	2	139644.9038	492087.9238	FD1C	TOR	–	15.00	FND–001	–	–
W234944B	2349+44	21.50	L	2	139707.6958	492058.9100	FD1D	TOR	–	12.00	FND–001	–	–
W234944A	2349+44	7.50	R	2	139707.4709	492087.9092	FD1D	TOR	–	12.00	FND–001	–	–
W235054	2350+54	8.00	R	2	139817.6139	492089.2027	FD1C	TOR	–	15.00	FND–001	–	–
W235069	2350+69	7.46	L	2	139832.4338	492073.7690	FD1C	TOR	–	15.00	FND–001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 6

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-006

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W235074	2350+74	8.00	R	2	139837.6139	492089.2206	FA1	TOR	–	12.00	FND–003	–	–
W235089	2350+89	7.47	L	2	139852.4117	492073.6895	FA1	TOR	–	12.00	FND–003	–	–
W235185	2351+85	7.52	L	2	139948.0576	492070.4443	FD1A	TOR	–	11.00	FND–001	–	–
W235292	2352+92	7.70	L	2	140053.0007	492059.3810	FD1A	TOR	–	11.00	FND–001	–	–
W235378	2353+78	7.81	L	2	140137.2691	492044.6289	FA1	TOR	–	10.00	FND–003	–	–
W235398	2353+98	7.83	L	2	140156.8246	492040.4400	FD1C	TOR	–	16.00	FND–001	–	–
W235504	2355+04	7.93	L	2	140258.9348	492013.7273	FD1B	TOR	–	12.00	FND–001	–	–
W235610	2356+10	7.68	L	2	140358.8542	491979.6741	FD1C	TOR	–	16.00	FND–001	–	–
W235630	2356+30	7.99	L	2	140377.3370	491972.0432	FA1	TOR	–	10.00	FND–003	–	–
W235716	2357+16	7.68	L	2	140455.8172	491937.9072	FD1A	TOR	–	11.00	FND–001	–	–
W235822	2358+22	7.65	L	2	140549.3560	491888.9524	FD1A	TOR	–	11.00	FND–001	–	–
W235929	2359+29	7.57	L	2	140638.9359	491833.0904	FD1A	TOR	–	11.00	FND–001	–	–
W236035	2360+35	7.44	L	2	140724.0456	491770.6415	FD1A	TOR	–	11.00	FND–001	–	–
W236141	2361+41	7.58	L	2	140803.9966	491701.7437	FD1A	TOR	–	11.00	FND–001	–	–
W236247	2362+47	7.49	L	2	140878.6622	491627.2239	FD1A	TOR	–	11.00	FND–001	–	–
W236362	2363+62	7.00	L	2	140956.1827	491542.0254	FD1A	TOR	–	11.00	FND–001	–	–
W236502	2365+02	7.00	L	2	141049.2310	491437.4213	FD1A	TOR	–	11.00	FND–001	–	–
W236672	2366+72	7.00	L	2	141162.2182	491310.4020	FD1A	TOR	–	11.00	FND–001	–	–
W236872	2368+72	7.00	L	2	141295.1444	491160.9676	FD1A	TOR	–	11.00	FND–001	–	–
W237042	2370+42	7.00	L	2	141408.1316	491033.9484	FD1A	TOR	–	11.00	FND–001	–	–
W237182	2371+82	7.00	L	2	141501.1799	490929.3443	FD1A	TOR	–	11.00	FND–001	–	–
W237283	2372+83	7.02	L	2	141567.3687	490854.0941	FD1A	TOR	–	11.00	FND–001	–	–
W237363	2373+63	7.34	L	2	141616.9849	490792.0574	FD1A	TOR	–	11.00	FND–001	–	–
W237423	2374+23	7.35	L	2	141652.1993	490742.8747	FA1	TOR	–	10.00	FND–003	–	–
W237443	2374+43	7.34	L	2	141663.2855	490726.2392	FD1C	TOR	–	16.00	FND–001	–	–
W237504	2375+04	7.32	L	2	141695.0815	490674.9111	FA1	TOR	–	10.00	FND–003	–	–
W237524	2375+24	7.38	L	2	141705.0485	490657.5771	FD1F	TOR	–	16.00	FND–001	–	–
W237619	2376+19	7.00	L	2	141751.2526	490574.5651	FD1E	TOR	–	12.00	FND–001	–	–
W237714	2377+14	7.00	L	2	141796.6396	490491.1084	FD1F	TOR	–	16.00	FND–001	–	–
W237809	2378+09	7.00	L	2	141842.0265	490407.6517	FD1C	TOR	–	16.00	FND–001	–	–
W237829	2378+29	7.00	L	2	141851.5777	490390.0842	FA1	TOR	–	10.00	FND–003	–	–
W237889	2378+89	6.92	L	2	141880.3151	490337.4093	FD1A	TOR	–	11.00	FND–001	–	–
W237904	2379+04	6.90	L	2	141887.5010	490324.2426	FA1	TOR	–	10.00	FND–003	–	–
W237979	2379+79	6.92	L	2	141923.6481	490258.3969	FD1A	TOR	–	11.00	FND–001	–	–
W238054	2380+54	7.07	L	2	141963.0976	490193.9366	FD1A	TOR	–	11.00	FND–001	–	–
W238125	2381+25	7.39	L	2	142006.3521	490137.7138	FD1A	TOR	–	11.00	FND–001	–	–
W238190	2381+90	7.63	L	2	142053.0963	490091.1803	FD1A	TOR	–	11.00	FND–001	–	–
W238255	2382+55	7.73	L	2	142105.4781	490051.0625	FD1A	TOR	–	11.00	FND–001	–	–
W238320	2383+20	7.71	L	2	142162.6092	490018.0477	FD1A	TOR	–	11.00	FND–001	–	–
W238385	2383+85	7.54	L	2	142223.5176	489992.6960	FD1A	TOR	–	11.00	FND–001	–	–
W238450	2384+50	7.58	L	2	142287.0932	489975.1049	FD1A	TOR	–	11.00	FND–001	–	–
W238515	2385+15	6.88	L	2	142352.2866	489966.1171	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W238595	2385+95	7.01	L	2	142432.5528	489961.2301	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W238700	2387+00	7.00	L	2	142537.5399	489958.1687	PA1A	–	–	–	FND–006	–	SEE NOTE 5
W238815	2388+15	7.00	L	2	142652.4957	489954.8436	PA1	–	–	–	FND–007	–	SEE NOTE 5
W238835	2388+35	7.00	L	2	142672.4836	489954.2706	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W239010	2390+10	7.00	L	2	142847.4106	489949.2176	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W239210	2392+10	7.00	L	2	143047.3394	489943.4425	PA1B	–	–	–	FND–006	–	SEE NOTE 5
W239230	2392+30	7.01	L	2	143067.3268	489942.8538	PA1	–	–	–	FND–007	–	SEE NOTE 5
W239435	2394+35	7.00	L	2	143272.2456	489936.9456	PA1A	–	–	–	FND–006	–	SEE NOTE 5

NOTES:

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2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 7

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-007

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
W239660	2396+60	7.00	L	2	143497.1518	489930.4489	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W239885	2398+85	7.00	L	2	143722.0580	489923.9522	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W240110	2401+10	7.00	L	2	143946.9642	489917.4554	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W240335	2403+35	7.00	L	2	144171.8704	489910.9587	PA1A	–	–	–	FND-006	–	SEE NOTE 5
W240540	2405+40	7.03	L	2	144376.7880	489905.0084	PA1	–	–	–	FND-007	–	SEE NOTE 5
W240560	2405+60	7.00	L	2	144396.7766	489904.4620	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W240730	2407+30	6.81	L	2	144566.8180	489900.1083	PA1	–	–	–	FND-007	–	SEE NOTE 5
W240750	2407+50	6.82	L	2	144586.8111	489899.7587	PA1F	–	–	–	FND-006	–	SEE NOTE 5
W240925	2409+25	6.81	L	2	144762.0497	489900.1418	PA1E	–	–	–	FND-006	–	SEE NOTE 5
W241105	2411+05	7.00	L	2	144942.0604	489905.0890	PA1F	–	–	–	FND-006	–	SEE NOTE 5
W241125	2411+25	7.10	L	2	144962.0497	489905.6101	PA1	–	–	–	FND-007	–	SEE NOTE 5
W241285	2412+85	7.00	L	2	145121.9732	489910.6906	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W241305	2413+05	7.01	L	2	145141.9599	489911.3041	PA1	–	–	–	FND-007	–	SEE NOTE 5
W241435	2414+35	6.98	L	2	145271.9039	489915.3794	PA1	–	–	–	FND-007	–	SEE NOTE 5
W241455	2414+55	6.99	L	2	145291.8907	489915.9879	PA1C	–	–	–	FND-006	–	SEE NOTE 5
W241570	2415+70	7.00	L	2	145406.6174	489919.5542	FD1A	TOR	–	14.00	FND-001	–	–
W241617	2416+17	7.00	L	2	145454.3377	489921.0388	FD1D	TOR	–	14.00	FND-001	–	–
W241656	2416+56	6.98	R	2	145492.0768	489936.1990	FD1D	TOR	–	14.00	FND-001	–	–
W241729	2417+29	6.41	R	2	145565.4272	489937.9136	FD1C	TOR	–	20.00	FND-001	–	–
W241749B	2417+49	7.00	L	2	145585.8348	489925.1330	FD1F	TOR	–	20.00	FND-001	–	–
W241749A	2417+49	6.41	R	2	145585.4175	489938.5360	FD1C	TOR	–	20.00	FND-001	–	–
W241821	2418+21	7.00	L	2	145657.9698	489927.3789	FD1F	TOR	–	20.00	FND-001	–	–
W241902	2419+02	7.08	L	2	145739.1657	489929.8246	FD1F	TOR	–	20.00	FND-001	–	–
W242003	2420+03	6.97	L	2	145839.9134	489933.0784	FD1F	TOR	–	20.00	FND-001	–	–
W242114	2421+14	7.10	L	2	145951.2155	489936.9030	FD1C	TOR	–	20.00	FND-001	–	–
W242134	2421+34	7.91	L	2	145971.1593	489938.3479	FA1	TOR	–	15.00	FND-003	–	–
W242157	2421+57	8.00	L	2	145995.5148	489943.7180	FD1B	TOR	–	15.00	FND-001	–	–
W242158	2421+58	27.06	L	2	146001.6986	489925.6743	FD1B	TOR	–	15.00	FND-001	–	–
W242188	2421+88	31.77	L	2	146037.0327	489935.5401	FD1B	TOR	–	15.00	FND-001	–	–
W242193	2421+93	8.00	L	2	146030.2128	489959.0116	FD1B	TOR	–	15.00	FND-001	–	–
W242219	2422+19	35.41	L	2	146070.1608	489954.0349	FD1B	TOR	–	15.00	FND-001	–	–
W242230	2422+30	8.00	L	2	146060.2664	489982.1330	FD1B	TOR	–	15.00	FND-001	–	–
W242250	2422+50	37.68	L	2	146097.8914	489979.8632	FD1B	TOR	–	15.00	FND-001	–	–
W242266	2422+66	8.00	L	2	146083.9437	490011.7427	FD1B	TOR	–	15.00	FND-001	–	–
W242281	2422+81	38.51	L	2	146118.7153	490011.3986	FD1B	TOR	–	15.00	FND-001	–	–
W242302	2423+02	8.00	L	2	146100.6047	490045.1421	FD1B	TOR	–	15.00	FND-001	–	–
W242332	2423+32	38.37	L	2	146139.9381	490063.2410	FD1A	TOR	–	14.00	FND-001	–	–
W242352	2423+52	8.00	R	2	146103.1317	490097.7634	FD1A	TOR	–	14.00	FND-001	–	–
W242417A	2424+17	8.00	R	2	146125.2921	490158.8692	FD1A	TOR	–	14.00	FND-001	–	–
W242417B	2424+17	38.37	L	2	146168.9173	490143.1498	FD1A	TOR	–	14.00	FND-001	–	–
W242502B	2425+02	38.37	L	2	146197.8637	490222.9677	FD1A	TOR	–	14.00	FND-001	–	–
W242502A	2425+02	8.00	R	2	146154.2710	490238.7768	FD1A	TOR	–	14.00	FND-001	–	–
W242602B	2426+02	38.37	L	2	146231.9565	490316.9766	FD1A	TOR	–	14.00	FND-001	–	–
W242602A	2426+02	8.00	R	2	146188.3638	490332.7857	FD1A	TOR	–	14.00	FND-001	–	–
W242728B	2427+28	22.36	L	2	146259.9743	490441.2002	FD1A	TOR	–	14.00	FND-001	–	–
W242728A	2427+28	8.00	L	2	146246.4719	490446.0969	FD1A	TOR	–	14.00	FND-001	–	–
W242835A	2428+35	8.01	L	2	146282.8246	490546.3028	FA1	TOR	–	15.00	FND-003	–	–
W242835B	2428+35	21.25	L	2	146295.2751	490541.7914	FA1	TOR	–	15.00	FND-003	–	–
W242855B	2428+55	20.87	L	2	146301.7329	490560.7160	FD1B	TOR	–	15.00	FND-001	–	–
W242855A	2428+55	8.00	L	2	146289.6307	490565.1049	FD1B	TOR	–	15.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 8

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-008

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
W243015B	2430+15	14.54	L	2	146350.3254	490713.2903	FD1A	TOR	–	14.00	FND-001	–	–
W243015A	2430+15	8.00	L	2	146344.1793	490715.5192	FD1A	TOR	–	14.00	FND-001	–	–
W243175	2431+75	7.97	L	2	146398.7057	490865.9415	FD1B	TOR	–	15.00	FND-001	–	–
W243195	2431+95	7.70	L	2	146405.2654	490884.8310	FD1A	TOR	–	14.00	FND-001	–	–
W243334	2433+34	7.00	L	2	146452.1185	491016.0765	FD1A	TOR	–	14.00	FND-001	–	–
W243484	2434+84	7.00	L	2	146503.2521	491157.0747	FD1A	TOR	–	14.00	FND-001	–	–
W243634	2436+34	7.05	L	2	146554.4369	491298.0686	FD1A	TOR	–	14.00	FND-001	–	–
W243769B	2437+69	22.00	L	2	146614.4291	491419.6465	FA1	TOR	–	15.00	FND-003	–	–
W243769A	2437+69	6.99	L	2	146600.3173	491424.7643	FA1	TOR	–	15.00	FND-003	–	–
W243789B	2437+89	22.00	L	2	146621.2477	491438.4483	FD1C	TOR	–	20.00	FND-001	–	–
W243789A	2437+89	6.99	L	2	146607.1359	491443.5661	FD1C	TOR	–	20.00	FND-001	–	–
W243962	2439+62	6.99	L	2	146666.0824	491606.1075	FD1E	TOR	–	15.00	FND-001	–	–
W244135	2441+35	6.99	L	2	146725.0289	491768.6489	FD1E	TOR	–	15.00	FND-001	–	–
E249755A	2497+55	6.99	L	2	146782.9526	491928.3701	FD1C	TOR	–	16.00	FND-001	–	–
E249755B	2497+55	21.99	L	2	146797.0539	491923.2562	FD1C	TOR	–	16.00	FND-001	–	–
E249775B	2497+75	22.00	L	2	146803.8830	491942.0542	FA1	TOR	–	12.00	FND-003	–	–
E249775A	2497+75	6.99	L	2	146789.7764	491947.1700	FA1	TOR	–	12.00	FND-003	–	–
E249930	2499+30	7.00	L	2	146842.6255	492092.8819	FD1A	TOR	–	12.00	FND-001	–	–
E250105	2501+05	7.00	L	2	146902.2879	492257.3974	FD1A	TOR	–	12.00	FND-001	–	–
E250280	2502+80	7.11	L	2	146961.8562	492421.9470	FD1A	TOR	–	12.00	FND-001	–	–
E250435	2504+35	8.56	L	2	147013.0581	492568.2154	FA1	TOR	–	12.00	FND-003	–	–
E250455	2504+55	9.04	L	2	147019.6908	492587.0835	FD1C	TOR	–	16.00	FND-001	–	–
E250605A	2506+05	7.50	L	2	147064.4204	492730.2528	FD1B	TOR	–	12.00	FND-001	–	–
E250605B	2506+05	15.80	L	2	147072.3191	492727.7148	FD1B	TOR	–	12.00	FND-001	–	–
E250755A	2507+55	7.50	L	2	147110.8593	492872.9275	FD1B	TOR	–	12.00	FND-001	–	–
E250755B	2507+55	20.78	L	2	147123.4632	492868.7416	FD1B	TOR	–	12.00	FND-001	–	–
E250775A	2507+75	7.99	L	2	147117.6652	492891.7339	FA1	TOR	–	12.00	FND-003	–	–
E250775B	2507+75	20.94	L	2	147129.9608	492887.6567	FA1	TOR	–	12.00	FND-003	–	–
E250906B	2509+06	22.84	L	2	147174.5521	493009.6164	FD1A	TOR	–	12.00	FND-001	–	–
E250906A	2509+06	7.50	L	2	147160.1204	493014.8167	FD1A	TOR	–	12.00	FND-001	–	–
E251084B	2510+84	37.38	L	2	147249.0656	493172.5518	FD1A	TOR	–	12.00	FND-001	–	–
E251084A	2510+84	7.00	R	2	147207.3491	493187.6805	FD1A	TOR	–	12.00	FND-001	–	–
E251279B	2512+79	37.38	L	2	147315.5466	493355.8692	FD1A	TOR	–	12.00	FND-001	–	–
E251279A	2512+79	7.00	R	2	147273.8302	493370.9979	FD1A	TOR	–	12.00	FND-001	–	–
E251429B	2514+29	22.32	L	2	147352.5322	493502.0215	FA1	TOR	–	12.00	FND-003	–	–
E251429A	2514+29	7.16	L	2	147338.2850	493507.2012	FA1	TOR	–	12.00	FND-003	–	–
E251449B	2514+49	23.35	L	2	147360.3356	493520.4363	FD1C	TOR	–	20.00	FND-001	–	–
E251449A	2514+49	7.00	L	2	147344.9757	493526.0489	FD1C	TOR	–	20.00	FND-001	–	–
E251594B	2515+94	19.76	L	2	147409.4490	493655.8638	FD1D	TOR	–	12.00	FND-001	–	–
E251594A	2515+94	7.00	L	2	147397.6736	493660.7894	FD1D	TOR	–	12.00	FND-001	–	–
E251739B	2517+39	12.22	L	2	147458.9246	493792.2897	FD1D	TOR	–	12.00	FND-001	–	–
E251739A	2517+39	7.00	L	2	147454.1194	493794.3209	FD1D	TOR	–	12.00	FND-001	–	–
E251899A	2518+99	7.00	R	2	147500.4337	493948.0695	FD1C	TOR	–	16.00	FND-001	–	–
E251899B	2518+99	21.09	L	2	147526.7944	493938.3723	FD1C	TOR	–	16.00	FND-001	–	–
E251919B	2519+19	21.01	L	2	147533.6129	493957.1741	FA1	TOR	–	12.00	FND-003	–	–
E251919A	2519+19	7.07	R	2	147507.2523	493966.8712	FA1	TOR	–	12.00	FND-003	–	–
E252079	2520+79	7.00	L	2	147575.0297	494112.4424	FD1A	TOR	–	12.00	FND-001	–	–
E252259	2522+59	7.00	L	2	147636.4584	494281.6146	FD1A	TOR	–	12.00	FND-001	–	–
E252439	2524+39	7.00	L	2	147699.8581	494449.9356	FD1A	TOR	–	12.00	FND-001	–	–
E252619	2526+19	7.00	L	2	147765.5730	494617.4772	FD1A	TOR	–	12.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 9

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-009

SHEET 398 OF 464

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STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
E252819	2528+19	7.00	L	2	147838.7497	494803.6093	FD1A	TOR	–	12.00	FND–001	–	–
E253009	2530+09	7.00	L	2	147908.1708	494980.5043	FD1A	TOR	–	12.00	FND–001	–	–
E253199	2531+99	7.00	L	2	147975.0429	495158.4952	FD1A	TOR	–	12.00	FND–001	–	–
E253389	2533+89	7.00	L	2	148040.2265	495336.9674	FD1A	TOR	–	12.00	FND–001	–	–
E253564	2535+64	7.30	L	2	148101.4276	495500.7850	FD1A	TOR	–	12.00	FND–001	–	–
E253699	2536+99	7.30	L	2	148152.1643	495625.5740	FA1	TOR	–	12.00	FND–003	–	–
E253719	2537+19	7.30	L	2	148160.0531	495643.9503	FD1B	TOR	–	12.00	FND–001	–	–
E253884	2538+84	7.22	L	2	148228.3437	495793.8629	FD1B	TOR	–	12.00	FND–001	–	–
E254064	2540+64	7.00	L	2	148306.2794	495956.0734	FD1B	TOR	–	16.00	FND–001	–	–
E254084	2540+84	7.00	L	2	148314.9775	495974.0824	FA1	TOR	–	12.00	FND–003	–	–
E254254	2542+54	7.00	L	2	148388.9131	496127.1631	FD1A	TOR	–	12.00	FND–001	–	–
E254445	2544+45	7.00	L	2	148471.7356	496298.6455	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E254637	2546+37	6.99	L	2	148555.9808	496471.4005	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E254816	2548+16	7.00	L	2	148636.9426	496630.9863	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E254995	2549+95	7.00	L	2	148718.4177	496790.2069	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E255155	2551+55	7.00	L	2	148791.2140	496932.6895	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E255314	2553+14	6.93	L	2	148860.6076	497076.1796	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E255465	2554+65	6.79	L	2	148921.1937	497214.7501	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E255616	2556+16	7.00	L	2	148979.5075	497354.1268	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E255734	2557+34	7.08	L	2	149024.9140	497462.9530	PA1	–	–	–	FND–007	–	SEE NOTE 5
E255754	2557+54	7.05	L	2	149032.6202	497481.4087	PA1C	–	–	–	FND–006	–	SEE NOTE 5
E255895	2558+95	7.04	L	2	149088.3900	497610.2281	PA1	–	–	–	FND–007	–	SEE NOTE 5
E255915	2559+15	7.00	L	2	149096.5426	497628.4910	PA1F	–	–	–	FND–006	–	SEE NOTE 5
E256070	2560+70	7.08	L	2	149162.0855	497768.9512	FD1E	TOR	–	12.00	FND–001	–	–
E256245	2562+45	7.00	L	2	149237.6206	497926.8040	FD1F	TOR	–	12.00	FND–001	–	–
E256265	2562+65	7.00	L	2	149246.2606	497944.8371	FA1	TOR	–	12.00	FND–003	–	–
E256445	2564+45	7.00	L	2	149324.0100	498107.1127	FD1C	TOR	–	16.00	FND–001	–	–
E256465	2564+65	7.00	L	2	149332.6405	498125.1258	FA1	TOR	–	12.00	FND–003	–	–
E256645	2566+45	7.00	L	2	149410.4272	498287.4792	FD1A	TOR	–	12.00	FND–001	–	–
E256820	2568+20	7.00	L	2	149486.0422	498445.2999	FD1A	TOR	–	12.00	FND–001	–	–
E256970	2569+70	7.10	L	2	149550.7692	498580.6159	FD1A	TOR	–	12.00	FND–001	–	–
E257119	2571+19	9.69	L	2	149613.2781	498716.9947	FD1A	TOR	–	12.00	FND–001	–	–
E257269B	2572+69	20.10	L	2	149680.4808	498851.1245	FD1A	TOR	–	12.00	FND–001	–	–
E257269A	2572+69	7.00	L	2	149668.4140	498856.2318	FD1A	TOR	–	12.00	FND–001	–	–
E257444A	2574+44	7.00	L	2	149740.9119	499015.1514	FD1A	TOR	–	12.00	FND–001	–	–
E257444B	2574+44	23.38	L	2	149755.6794	499008.0760	FD1A	TOR	–	12.00	FND–001	–	–
E257620A	2576+20	7.00	R	2	149804.3176	499179.8905	FD1A	TOR	–	12.00	FND–001	–	–
E257620B	2576+20	37.38	L	2	149844.3365	499160.7167	FD1A	TOR	–	12.00	FND–001	–	–
E257795A	2577+95	7.00	R	2	149879.9326	499337.7112	FD1A	TOR	–	12.00	FND–001	–	–
E257795B	2577+95	37.38	L	2	149919.9515	499318.5374	FD1A	TOR	–	12.00	FND–001	–	–
E257955B	2579+55	22.88	L	2	149976.0086	499469.0958	FA1	TOR	–	12.00	FND–003	–	–
E257955A	2579+55	6.94	L	2	149961.6426	499475.9905	FA1	TOR	–	12.00	FND–003	–	–
E257970A	2579+70	7.50	L	2	149968.6242	499489.2666	FD1B	TOR	–	12.00	FND–001	–	–
E257970B	2579+70	22.88	L	2	149982.4899	499482.6233	FD1B	TOR	–	12.00	FND–001	–	–
E258121B	2581+21	20.38	L	2	150047.3028	499617.8982	FD1B	TOR	–	12.00	FND–001	–	–
E258121A	2581+21	7.50	L	2	150035.9351	499623.9480	FD1B	TOR	–	12.00	FND–001	–	–
E258271	2582+71	10.13	L	2	150109.7336	499754.3150	FD1B	TOR	–	12.00	FND–001	–	–
E258291	2582+91	9.17	L	2	150118.4577	499772.3119	FA1	TOR	–	12.00	FND–003	–	–
E258421	2584+21	7.21	L	2	150177.1893	499888.3236	FD1A	TOR	–	12.00	FND–001	–	–
E258570	2585+70	7.00	L	2	150242.1925	500023.5073	FD1A	TOR	–	12.00	FND–001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 10

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-010

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
E258745	2587+45	7.00	L	2	150317.8075	500181.3280	FD1A	TOR	–	12.00	FND–001	–	–
E258920	2589+20	7.00	L	2	150393.4225	500339.1487	FA1	TOR	–	12.00	FND–003	–	–
E258940	2589+40	7.00	L	2	150402.0642	500357.1854	FD1C	TOR	–	16.00	FND–001	–	–
E259115	2591+15	7.00	L	2	150477.6792	500515.0060	FA1	TOR	–	12.00	FND–003	–	–
E259135	2591+35	7.00	L	2	150486.3210	500533.0427	FD1F	TOR	–	16.00	FND–001	–	–
E259588B	2595+88	21.00	L	2	150585.3638	500707.3600	FD1D	TOR	–	12.00	FND–001	–	–
E259588A	2595+88	7.00	R	2	150560.1125	500719.4584	FD1D	TOR	–	12.00	FND–001	–	–
E259788	2597+88	7.00	L	2	150659.1553	500893.7757	FD1F	TOR	–	16.00	FND–001	–	–
E259808	2598+08	7.00	L	2	150667.7970	500911.8124	FA1	TOR	–	12.00	FND–003	–	–
E259988	2599+88	7.00	L	2	150745.5724	501074.1422	FD1C	TOR	–	16.00	FND–001	–	–
E260008	2600+08	7.00	L	2	150754.2141	501092.1789	FA1	TOR	–	12.00	FND–003	–	–
E260188	2601+88	7.00	L	2	150831.9896	501254.5087	FD1A	TOR	–	12.00	FND–001	–	–
E260388	2603+88	7.00	L	2	150918.4067	501434.8752	FD1A	TOR	–	12.00	FND–001	–	–
E260588	2605+88	7.00	L	2	151004.8239	501615.2417	FD1A	TOR	–	12.00	FND–001	–	–
E260793	2607+93	7.00	L	2	151093.4014	501800.1174	FA1	TOR	–	12.00	FND–003	–	–
E260813	2608+13	7.00	L	2	151102.0432	501818.1540	FD1C	TOR	–	16.00	FND–001	–	–
E261018	2610+18	7.00	L	2	151190.6207	502003.0297	FA1	TOR	–	12.00	FND–003	–	–
E261038	2610+38	7.00	L	2	151199.2624	502021.0664	FD1F	TOR	–	16.00	FND–001	–	–
E261263	2612+63	7.00	L	2	151296.4817	502223.9787	FD1E	TOR	–	12.00	FND–001	–	–
E261488	2614+88	7.00	L	2	151393.7010	502426.8910	FD1F	TOR	–	16.00	FND–001	–	–
E261508	2615+08	7.00	L	2	151402.3427	502444.9277	FA1	TOR	–	12.00	FND–003	–	–
E261713	2617+13	7.00	L	2	151490.9203	502629.8033	FD1C	TOR	–	16.00	FND–001	–	–
E261733	2617+33	7.00	L	2	151499.5620	502647.8400	FA1	TOR	–	12.00	FND–003	–	–
E261908	2619+08	7.00	L	2	151575.3155	502805.9496	FD1A	TOR	–	12.00	FND–001	–	–
E262088	2620+88	7.00	L	2	151653.0909	502968.2794	FD1A	TOR	–	12.00	FND–001	–	–
E262238	2622+38	7.00	L	2	151717.9038	503103.5543	FD1A	TOR	–	12.00	FND–001	–	–
E262338A	2623+38	7.58	R	2	151747.9601	503200.0393	FA1	TOR	–	12.00	FND–003	–	–
E262338B	2623+38	21.79	L	2	151774.4952	503187.4318	FA1	TOR	–	12.00	FND–003	–	–
E262358A	2623+58	7.50	R	2	151756.6775	503218.0395	FD1C	TOR	–	16.00	FND–001	–	–
E262358B	2623+58	21.50	L	2	151782.8706	503205.5937	FD1C	TOR	–	16.00	FND–001	–	–
E262448A	2624+48	7.54	R	2	151795.5282	503299.2148	FD1D	TOR	–	12.00	FND–001	–	–
E262448B	2624+48	21.50	L	2	151821.7554	503286.7526	FD1D	TOR	–	12.00	FND–001	–	SEE NOTE 6
E262513B	2625+13	22.00	L	2	151850.2547	503345.0697	FD1C	TOR	–	16.00	FND–001	–	SEE NOTE 6
E262513A	2625+13	8.00	R	2	151823.2018	503358.0312	FD1C	TOR	–	16.00	FND–001	–	SEE NOTE 6
E262578A	2625+78	7.50	R	2	151851.7072	503416.3805	FD1D	TOR	–	12.00	FND–001	–	SEE NOTE 6
E262578B	2625+78	21.50	L	2	151877.8861	503403.9064	FD1D	TOR	–	12.00	FND–001	–	SEE NOTE 6
E262668A	2626+68	7.50	R	2	151890.6420	503497.6449	FD1B	TOR	–	12.00	FND–001	–	SEE NOTE 6
E262668B	2626+68	21.50	L	2	151916.8375	503485.1979	FD1B	TOR	–	12.00	FND–001	–	–
E262688A	2626+88	7.64	R	2	151899.1558	503515.7422	FA1	TOR	–	12.00	FND–003	–	–
E262688B	2626+88	21.76	L	2	151925.7091	503503.1226	FA1	TOR	–	12.00	FND–003	–	–
E262758	2627+58	7.00	L	2	151942.5866	503572.5007	FA1	TOR	–	12.00	FND–003	–	–
E262778	2627+78	7.00	L	2	151951.2283	503590.5374	FD1B	TOR	–	15.00	FND–001	–	–
E262913	2629+13	6.75	L	2	152009.0299	503712.2674	FD1B	TOR	–	15.00	FND–001	–	–
E263033	2630+33	6.75	L	2	152056.9415	503822.7076	FD1B	TOR	–	15.00	FND–001	–	–
E263053	2630+53	6.90	L	2	152064.3919	503841.2681	FA1	TOR	–	15.00	FND–003	–	–
E263183	2631+83	6.75	L	2	152107.9011	503964.1847	FD1A	TOR	–	15.00	FND–001	–	–
E263383	2633+83	7.00	L	2	152171.7397	504153.7250	FD1A	TOR	–	15.00	FND–001	–	–
E263543	2635+43	7.07	L	2	152222.6837	504305.3981	FD1A	TOR	–	15.00	FND–001	–	–
E263664	2636+64	12.35	L	2	152266.0168	504417.9923	FD1A	TOR	–	15.00	FND–001	–	–
E263723	2637+23	7.50	L	2	152280.7373	504475.5733	FD1A	TOR	–	15.00	FND–001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 11

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-011

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E263826B	2638+26	22.84	L	2	152334.3273	504562.9669	FD1A	TOR	–	12.00	FND-001	–	–
E263826A	2638+26	7.50	L	2	152320.5940	504569.7992	FD1A	TOR	–	12.00	FND-001	–	–
E263970B	2639+70	37.38	L	2	152409.8270	504686.9888	FD1A	TOR	–	12.00	FND-001	–	–
E263970A	2639+70	7.00	R	2	152369.8082	504706.1626	FD1A	TOR	–	12.00	FND-001	–	–
E264114B	2641+14	37.38	L	2	152472.0474	504816.8527	FD1A	TOR	–	12.00	FND-001	–	–
E264114A	2641+14	7.00	R	2	152432.0285	504836.0265	FD1A	TOR	–	12.00	FND-001	–	–
E264208B	2642+08	22.88	L	2	152499.5864	504907.8893	FD1A	TOR	–	12.00	FND-001	–	–
E264208A	2642+08	7.50	L	2	152485.7202	504914.5315	FD1A	TOR	–	12.00	FND-001	–	–
E264273	2642+73	22.91	L	2	152527.5783	504966.2384	FD1A	TOR	–	12.00	FND-001	–	–
E264308	2643+08	7.50	L	2	152528.9288	505004.7148	FD1A	TOR	–	12.00	FND-001	–	–
E264338	2643+38	23.77	L	2	152556.3197	505024.2371	FD1A	TOR	–	12.00	FND-001	–	–
E264405	2644+05	41.84	L	2	152601.6030	505076.9185	FD1A	TOR	–	12.00	FND-001	–	–
E264408	2644+08	7.00	R	2	152559.0608	505101.1633	FD1A	TOR	–	12.00	FND-001	–	–
E264470	2644+70	29.73	L	2	152618.7585	505140.2811	FA1	TOR	–	12.00	FND-003	–	–
E264490	2644+90	30.97	L	2	152628.7807	505157.5887	FD1C	TOR	–	16.00	FND-001	–	–
E264498	2644+98	8.00	L	2	152612.0322	505175.3430	FD1A	TOR	–	12.00	FND-001	–	–
E264577	2645+77	7.71	L	2	152648.8577	505244.2760	FA1	TOR	–	12.00	FND-003	–	–
E264595	2645+95	35.05	L	2	152681.5035	505246.2148	FD1D	TOR	–	12.00	FND-001	–	–
E264597	2645+97	7.50	L	2	152658.6535	505261.7128	FD1C	TOR	–	16.00	FND-001	–	–
E264707	2647+07	7.50	L	2	152716.7409	505354.6026	FD1D	TOR	–	12.00	FND-001	–	–
E264742	2647+42	30.56	L	2	152755.4495	505370.7497	FD1D	TOR	–	12.00	FND-001	–	–
E264852	2648+52	7.00	L	2	152797.8811	505474.7465	FD1D	TOR	–	12.00	FND-001	–	–
E264867	2648+67	21.78	L	2	152818.3553	505478.5262	FD1C	TOR	–	16.00	FND-001	–	–
E264887	2648+87	19.38	L	2	152827.5607	505496.2818	FA1	TOR	–	12.00	FND-003	–	–
E264992	2649+92	10.83	L	2	152879.4422	505588.8068	FD1C	TOR	–	16.00	FND-001	–	–
E265012	2650+12	9.89	L	2	152889.5816	505606.0461	FA1	TOR	–	12.00	FND-003	–	–
E265122	2651+22	8.74	L	2	152947.1459	505700.2560	FD1A	TOR	–	12.00	FND-001	–	–
E265252	2652+52	7.72	L	2	153011.2689	505813.7210	FD1A	TOR	–	12.00	FND-001	–	–
E265382	2653+82	7.16	L	2	153071.2273	505929.3982	FD1A	TOR	–	12.00	FND-001	–	–
E265505	2655+05	7.00	L	2	153124.7877	506039.9476	FD1A	TOR	–	16.00	FND-001	–	–
E265636	2656+36	7.01	L	2	153181.5897	506158.4694	FA1	TOR	–	12.00	FND-003	–	–
E265656	2656+56	7.01	L	2	153190.2305	506176.5078	FD1F	TOR	–	16.00	FND-001	–	–
E265769	2657+69	7.00	L	2	153238.7445	506277.7891	FA1	TOR	–	12.00	FND-003	–	–
E265789	2657+89	7.00	L	2	153247.3862	506295.8258	FD1F	TOR	–	16.00	FND-001	–	–
E265936	2659+36	6.99	L	2	153311.1897	506429.0310	FD1D	TOR	–	12.00	FND-001	–	–
E266085	2660+85	7.00	L	2	153375.3335	506562.8771	FD1F	TOR	–	16.00	FND-001	–	–
E266105	2661+05	7.00	L	2	153383.9752	506580.9137	FA1	TOR	–	12.00	FND-003	–	–
E266243	2662+43	7.07	L	2	153443.5128	506705.4946	FD1C	TOR	–	16.00	FND-001	–	–
E266263	2662+63	7.26	L	2	153452.0801	506723.5623	FA1	TOR	–	12.00	FND-003	–	–
E266361	2663+61	9.37	L	2	153493.5222	506812.8155	FD1F	TOR	–	16.00	FND-001	–	–
E266530B	2665+30	19.08	L	2	153567.5424	506965.2050	FD1A	TOR	–	12.00	FND-001	–	–
E266530A	2665+30	7.50	L	2	153556.8848	506969.7237	FD1A	TOR	–	12.00	FND-001	–	–
E266680B	2666+80	22.86	L	2	153632.1679	507100.0890	FD1A	TOR	–	12.00	FND-001	–	–
E266680A	2666+80	7.48	L	2	153618.3027	507106.7329	FD1A	TOR	–	12.00	FND-001	–	–
E266850B	2668+50	37.38	L	2	153718.6991	507247.1353	FD1A	TOR	–	12.00	FND-001	–	–
E266850A	2668+50	7.00	R	2	153678.6803	507266.3091	FD1A	TOR	–	12.00	FND-001	–	–
E267000B	2670+00	37.38	L	2	153783.5119	507382.4102	FD1A	TOR	–	12.00	FND-001	–	–
E267000A	2670+00	7.00	R	2	153743.4931	507401.5840	FD1A	TOR	–	12.00	FND-001	–	–
E267150B	2671+50	37.38	L	2	153848.3248	507517.6850	FD1A	TOR	–	12.00	FND-001	–	–
E267150A	2671+50	7.00	R	2	153808.3060	507536.8588	FD1A	TOR	–	12.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 12

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-012

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E267302B	2673+02	22.32	L	2	153900.8737	507660.4307	FD1A	TOR	–	12.00	FND-001	–	–
E267302A	2673+02	7.52	L	2	153887.7115	507667.2047	FD1A	TOR	–	12.00	FND-001	–	–
E267447B	2674+47	16.26	L	2	153963.3014	507790.4912	FD1A	TOR	–	12.00	FND-001	–	–
E267447A	2674+47	7.50	L	2	153955.6235	507794.7072	FD1A	TOR	–	12.00	FND-001	–	–
E267571	2675+71	8.63	L	2	154015.7482	507902.8727	FA1	TOR	–	12.00	FND-003	–	–
E267591	2675+91	8.12	L	2	154024.6796	507920.7677	FD1C	TOR	–	16.00	FND-001	–	–
E267740	2677+40	7.00	L	2	154090.5059	508055.5570	FD1B	TOR	–	12.00	FND-001	–	–
E267920	2679+20	7.00	L	2	154168.2814	508217.8869	FD1C	TOR	–	16.00	FND-001	–	–
E267940	2679+40	7.00	L	2	154176.9231	508235.9235	FA1	TOR	–	12.00	FND-003	–	–
E268092	2680+92	7.00	L	2	154242.6000	508373.0021	FD1A	TOR	–	12.00	FND-001	–	–
E268264	2682+64	7.00	L	2	154316.9189	508528.1173	FD1A	TOR	–	12.00	FND-001	–	–
E268436	2684+36	7.00	L	2	154391.2376	508683.2325	FD1A	TOR	–	12.00	FND-001	–	–
E268608	2686+08	7.00	L	2	154465.5564	508838.3477	FD1A	TOR	–	12.00	FND-001	–	–
E268780	2687+80	7.00	L	2	154539.8751	508993.4628	FD1A	TOR	–	12.00	FND-001	–	–
E268917	2689+17	7.54	R	2	154585.8715	509123.1129	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E268935	2689+35	21.89	L	2	154620.0891	509126.4230	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E269066	2690+66	6.97	L	2	154663.0820	509250.6801	FA1	TOR	–	12.00	FND-003	–	–
E269086	2690+86	6.97	L	2	154671.7237	509268.7168	FD1C	TOR	–	16.00	FND-001	–	–
E269226	2692+26	7.00	L	2	154732.2428	509394.9651	FA1	TOR	–	12.00	FND-003	–	–
E269246	2692+46	7.00	L	2	154740.8833	509412.9993	FD1F	TOR	–	16.00	FND-001	–	–
E269446B	2694+46	21.00	L	2	154839.9783	509587.4256	FD1E	TOR	–	12.00	FND-001	–	–
E269446A	2694+46	7.00	R	2	154814.7270	509599.5240	FD1E	TOR	–	12.00	FND-001	–	–
E269646	2696+46	7.00	L	2	154913.7168	509773.7309	FD1F	TOR	–	16.00	FND-001	–	–
E269666	2696+66	7.00	L	2	154922.3585	509791.7675	FA1	TOR	–	12.00	FND-003	–	–
E269846	2698+46	7.00	L	2	155000.1340	509954.0973	FD1C	TOR	–	16.00	FND-001	–	–
E269866	2698+66	7.00	L	2	155008.7758	509972.1340	FA1	TOR	–	12.00	FND-003	–	–
E270046	2700+46	7.00	L	2	155086.5512	510134.4639	FD1A	TOR	–	12.00	FND-001	–	–
E270246	2702+46	7.00	L	2	155172.9683	510314.8304	FD1A	TOR	–	12.00	FND-001	–	–
E270426	2704+26	7.00	L	2	155250.7438	510477.1602	FA1	TOR	–	12.00	FND-003	–	–
E270446	2704+46	7.00	L	2	155259.3855	510495.1969	FD1B	TOR	–	12.00	FND-001	–	–
E270626	2706+26	7.04	L	2	155337.2001	510657.6903	FD1B	TOR	–	12.00	FND-001	–	–
E270775	2707+75	9.26	L	2	155399.9308	510793.7621	FD1B	TOR	–	12.00	FND-001	–	–
E270795	2707+95	10.30	L	2	155408.5725	510811.7988	FA1	TOR	–	12.00	FND-003	–	–
E270925B	2709+25	18.82	L	2	155466.1726	510927.9521	FD1A	TOR	–	12.00	FND-001	–	–
E270925A	2709+25	7.50	L	2	155455.9622	510932.8718	FD1A	TOR	–	12.00	FND-001	–	–
E271075B	2710+75	22.84	L	2	155530.8120	511062.8649	FD1A	TOR	–	12.00	FND-001	–	–
E271075A	2710+75	7.50	L	2	155516.9838	511069.5136	FD1A	TOR	–	12.00	FND-001	–	–
E271256B	2712+56	37.38	L	2	155621.9674	511219.5627	FD1A	TOR	–	12.00	FND-001	–	–
E271256A	2712+56	7.00	R	2	155581.9486	511238.7365	FD1A	TOR	–	12.00	FND-001	–	–
E271431B	2714+31	37.38	L	2	155697.5824	511377.3834	FD1A	TOR	–	12.00	FND-001	–	–
E271431A	2714+31	7.00	R	2	155657.5636	511396.5572	FD1A	TOR	–	12.00	FND-001	–	–
E271606B	2716+06	22.88	L	2	155760.1207	511541.4693	FD1A	TOR	–	12.00	FND-001	–	–
E271606A	2716+06	7.50	L	2	155746.2558	511548.1139	FA1	TOR	–	12.00	FND-003	–	–
E271626	2716+26	7.50	L	2	155754.8975	511566.1505	FD1C	TOR	–	16.00	FND-001	–	–
E271781	2717+81	19.86	L	2	155833.0062	511700.5731	FD1A	TOR	–	12.00	FND-001	–	–
E271791	2717+91	7.48	L	2	155826.1760	511714.9604	FD1D	TOR	–	12.00	FND-001	–	–
E271916	2719+16	8.51	L	2	155881.0859	511827.3853	FD1B	TOR	–	12.00	FND-001	–	–
E271936	2719+36	8.88	L	2	155889.8970	511845.3398	FD1F	TOR	–	16.00	FND-001	–	–
E272007	2720+07	21.82	L	2	155930.6498	511905.1895	FA1	TOR	–	12.00	FND-003	–	–
E272027	2720+27	21.40	L	2	155938.0098	511923.7860	FD1F	TOR	–	16.00	FND-001	–	–

NOTES:

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4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 13

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-013

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
E272056	2720+56	7.00	R	2	155922.8244	511961.7250	FD1C	TOR	–	16.00	FND–001	–	–
E272076	2720+76	7.07	R	2	155930.1844	511980.3215	FA1	TOR	–	12.00	FND–003	–	–
E272124	2721+24	21.00	L	2	155974.0576	512014.8678	FD1D	TOR	–	12.00	FND–001	–	–
E272159	2721+59	7.00	R	2	155960.7313	512057.2834	FD1D	TOR	–	12.00	FND–001	–	–
E272230	2722+30	7.00	R	2	155986.8335	512123.2359	FD1D	TOR	–	12.00	FND–001	–	–
E272264	2722+64	21.00	L	2	156025.5775	512145.0435	FD1D	TOR	–	12.00	FND–001	–	–
E272335	2723+35	7.00	R	2	156025.4735	512220.8676	FD1A	TOR	–	12.00	FND–001	–	–
E272362	2723+62	21.00	L	2	156061.6253	512236.1253	FD1F	TOR	–	16.00	FND–001	–	–
E272382	2723+82	21.00	L	2	156068.9853	512254.7218	FA1	TOR	–	12.00	FND–003	–	–
E272420	2724+20	6.99	L	2	156069.7653	512294.7531	FA1	TOR	–	12.00	FND–003	–	–
E272440	2724+40	7.00	L	2	156077.1253	512313.3496	FD1F	TOR	–	20.00	FND–001	–	–
E272460	2724+60	7.03	L	2	156084.4853	512331.9462	FA1	TOR	–	12.00	FND–003	–	–
E272536	2725+36	6.73	L	2	156111.7478	512403.5850	FD1D	TOR	–	12.00	FND–001	–	–
E272671	2726+71	6.77	L	2	156156.1060	512531.0556	FD1D	TOR	–	12.00	FND–001	–	–
E272796	2727+96	6.80	L	2	156191.7022	512651.0079	FD1C	TOR	–	16.00	FND–001	–	–
E272816	2728+16	6.80	L	2	156196.8932	512670.3225	FA1	TOR	–	12.00	FND–003	–	–
E272921	2729+21	6.81	L	2	156221.9828	512772.7839	FD1A	TOR	–	12.00	FND–001	–	–
E273051	2730+51	6.81	L	2	156247.6209	512900.5544	FD1A	TOR	–	12.00	FND–001	–	–
E273181	2731+81	6.79	L	2	156267.2852	513029.3768	FD1A	TOR	–	12.00	FND–001	–	–
E273309A	2733+09	6.76	L	2	156280.8013	513157.3630	FA1	TOR	–	12.00	FND–003	–	–
E273309B	2733+09	21.39	L	2	156295.3964	513156.2615	FA1	TOR	–	12.00	FND–003	–	–
E273329B	2733+29	21.08	L	2	156296.6633	513176.2174	FD1C	TOR	–	16.00	FND–001	–	–
E273329A	2733+29	6.75	L	2	156282.3725	513177.2972	FD1C	TOR	–	16.00	FND–001	–	–
E273479B	2734+79	21.00	L	2	156304.4757	513326.5626	FD1D	TOR	–	12.00	FND–001	–	–
E273479A	2734+79	6.58	L	2	156290.0624	513327.0990	FD1D	TOR	–	12.00	FND–001	–	–
E274677	2746+77	7.00	L	2	156295.9093	513476.9851	FD1E	TOR	–	12.00	FND–001	–	–
E274827B	2748+27	21.00	L	2	156315.3157	513626.3819	FD1C	TOR	–	16.00	FND–001	–	–
E274827A	2748+27	7.00	L	2	156301.3248	513626.8873	FD1C	TOR	–	16.00	FND–001	–	–
E274847B	2748+47	21.00	L	2	156316.0376	513646.3649	FA1	TOR	–	12.00	FND–003	–	–
E274847A	2748+47	7.00	L	2	156302.0467	513646.8704	FA1	TOR	–	12.00	FND–003	–	–
E274947	2749+47	7.29	L	2	156306.0142	513746.7959	FD1A	TOR	–	12.00	FND–001	–	–
E275067	2750+67	7.25	L	2	156313.0618	513866.5961	FD1A	TOR	–	12.00	FND–001	–	–
E275197	2751+97	7.47	L	2	156328.9319	513995.6247	FD1A	TOR	–	12.00	FND–001	–	–
E275318	2753+18	7.59	L	2	156351.4124	514113.5006	FD1A	TOR	–	12.00	FND–001	–	–
E275433	2754+33	7.47	L	2	156379.7727	514224.9565	FD1A	TOR	–	12.00	FND–001	–	–
E275549	2755+49	7.50	L	2	156415.0718	514334.4424	FD1A	TOR	–	12.00	FND–001	–	–
E275669	2756+69	7.75	L	2	156459.1984	514446.0525	FD1A	TOR	–	12.00	FND–001	–	–
E275770	2757+70	7.71	L	2	156501.1688	514536.8961	FA1	TOR	–	12.00	FND–003	–	–
E275790	2757+90	7.75	L	2	156510.1532	514554.7014	FD1C	TOR	–	20.00	FND–001	–	–
E275900	2759+00	7.75	L	2	156562.8764	514651.2201	FD1B	TOR	–	16.00	FND–001	–	–
E276011	2760+11	8.25	L	2	156621.6007	514744.2123	FD1C	TOR	–	20.00	FND–001	–	–
E276031	2760+31	8.57	L	2	156633.0474	514760.6127	FA1	TOR	–	12.00	FND–003	–	–
E276121	2761+21	9.76	L	2	156686.5210	514833.0344	FD1A	TOR	–	12.00	FND–001	–	–
E276232B	2762+32	16.79	L	2	156760.6119	514914.1208	FD1A	TOR	–	12.00	FND–001	–	–
E276232A	2762+32	8.00	L	2	156754.0747	514920.0048	FD1A	TOR	–	12.00	FND–001	–	–
E276353B	2763+53	21.88	L	2	156844.8949	514999.2714	FD1A	TOR	–	12.00	FND–001	–	–
E276353A	2763+53	8.00	L	2	156835.0171	515009.0273	FD1A	TOR	–	12.00	FND–001	–	–
E276494B	2764+94	22.38	L	2	156944.9947	515098.5746	FD1A	TOR	–	12.00	FND–001	–	–
E276494A	2764+94	8.00	L	2	156934.8707	515108.7797	FD1A	TOR	–	12.00	FND–001	–	–
E276628B	2766+28	37.38	L	2	157050.6889	515182.2987	FD1A	TOR	–	12.00	FND–001	–	–

NOTES:

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3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E276628A	2766+28	7.00	R	2	157019.4367	515213.8017	FD1A	TOR	–	12.00	FND-001	–	–
E276798B	2767+98	37.38	L	2	157171.3763	515302.0257	FD1A	TOR	–	12.00	FND-001	–	–
E276798A	2767+98	7.00	R	2	157140.1241	515333.5286	FD1A	TOR	–	12.00	FND-001	–	–
E276983	2769+83	7.00	R	2	157271.2499	515463.6106	FA1	TOR	–	12.00	FND-003	–	–
E276987	2769+87	37.57	L	2	157305.8447	515435.1541	FA1	TOR	–	12.00	FND-003	–	–
E277003	2770+03	7.00	R	2	157285.4485	515477.6961	FD1C	TOR	–	16.00	FND-001	–	–
E277007	2770+07	37.57	L	2	157320.0432	515449.2396	FD1C	TOR	–	16.00	FND-001	–	
E277181B	2771+81	37.38	L	2	157443.0303	515571.5178	FD1D	TOR	–	12.00	FND-001	–	
E277181A	2771+81	7.00	R	2	157411.7780	515603.0208	FD1D	TOR	–	12.00	FND-001	–	SEE NOTE 4
E277319A	2773+19	11.16	L	2	157522.7970	515686.8404	PA1D	–	–	–	FND-006	–	SEE NOTE 5
E277319B	2773+19	18.69	L	2	157528.1165	515681.5041	PA1D	–	–	–	FND-006	–	SEE NOTE 5
E277450B	2774+50	14.75	L	2	157622.0175	515771.2123	PA1C	–	–	–	FND-006	–	SEE NOTE 5
E277450A	2774+50	9.91	L	2	157618.9277	515774.9340	PA1C	–	–	–	FND-006	–	SEE NOTE 5
E277470	2774+70	12.34	L	2	157635.7476	515785.7549	PA1	–	–	–	FND-007	–	SEE NOTE 5
E277560	2775+60	10.52	L	2	157705.0173	515842.4782	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E280010B	2800+10	24.02	L	2	159803.7945	517081.7186	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E280010A	2800+10	8.24	R	2	159783.4977	517106.8001	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E280155B	2801+55	24.00	L	2	159915.3011	517174.4077	FD1A	TOR	–	12.00	FND-001	–	–
E280155A	2801+55	8.68	R	2	159894.4102	517199.5365	FD1A	TOR	–	12.00	FND-001	–	–
E280335	2803+35	8.00	L	2	160043.4870	517301.7827	FD1A	TOR	–	12.00	FND-001	–	–
E280465	2804+65	8.00	L	2	160144.1231	517384.3813	FD1A	TOR	–	12.00	FND-001	–	–
E280571	2805+71	8.26	L	2	160228.9456	517446.7417	FD1A	TOR	–	12.00	FND-001	–	–
E280676	2806+76	8.00	L	2	160317.0579	517502.6064	FD1A	TOR	–	12.00	FND-001	–	–
E280781	2807+81	8.00	L	2	160409.4075	517551.6300	FD1A	TOR	–	12.00	FND-001	–	–
E280886	2808+86	8.00	L	2	160505.0316	517593.5867	FD1A	TOR	–	12.00	FND-001	–	–
E280989	2809+89	7.72	L	2	160600.7862	517627.7534	FD1C	TOR	–	20.00	FND-001	–	–
E281090	2810+90	7.50	L	2	160698.4631	517654.7563	FD1A	TOR	–	12.00	FND-001	–	–
E281173	2811+73	7.01	L	2	160778.6023	517672.2876	FA1	TOR	–	12.00	FND-003	–	–
E281193	2811+93	6.68	L	2	160798.1777	517676.3869	FD1C	TOR	–	20.00	FND-001	–	–
E281323	2813+23	7.00	L	2	160926.0527	517699.9446	FA1	TOR	–	12.00	FND-003	–	–
E281343	2813+43	7.00	L	2	160945.7141	517703.6091	FD1F	TOR	–	16.00	FND-001	–	–
E281488	2814+88	7.00	L	2	161088.1887	517730.1634	FD1E	TOR	–	12.00	FND-001	–	–
E281633	2816+33	7.00	L	2	161230.7348	517756.7265	FD1F	TOR	–	16.00	FND-001	–	–
E281653	2816+53	7.06	L	2	161250.4070	517760.3328	FA1	TOR	–	12.00	FND-003	–	–
E281738	2817+38	7.91	L	2	161334.1228	517775.0772	FD1A	TOR	–	12.00	FND-001	–	–
E281758	2817+58	8.74	L	2	161353.9213	517777.9091	FA1	TOR	–	12.00	FND-003	–	–
E281823	2818+23	10.78	L	2	161418.3874	517786.7726	FD1C	TOR	–	16.00	FND-001	–	–
E281909B	2819+09	18.80	L	2	161503.4859	517787.5816	FD1B	TOR	–	12.00	FND-001	–	–
E281909A	2819+09	8.00	L	2	161502.8427	517798.3613	FD1B	TOR	–	12.00	FND-001	–	–
E281995B	2819+95	21.80	L	2	161588.0401	517785.9597	FD1B	TOR	–	12.00	FND-001	–	–
E281995A	2819+95	8.00	L	2	161588.3789	517799.7530	FD1B	TOR	–	12.00	FND-001	–	–
E282081A	2820+81	8.00	R	2	161674.3237	517811.9805	FD1A	TOR	–	12.00	FND-001	–	–
E282081B	2820+81	38.38	L	2	161671.9559	517765.6660	FD1A	TOR	–	12.00	FND-001	–	–
E282201A	2822+01	8.00	R	2	161794.1624	517805.7596	FD1A	TOR	–	12.00	FND-001	–	–
E282201B	2822+01	38.38	L	2	161791.7945	517759.4451	FD1A	TOR	–	12.00	FND-001	–	–
E282381B	2823+81	38.38	L	2	161971.5224	517750.1154	FD1A	TOR	–	12.00	FND-001	–	–
E282381A	2823+81	8.07	R	2	161973.9302	517796.4977	FD1A	TOR	–	12.00	FND-001	–	–
E282521A	2825+21	9.25	L	2	162112.5999	517771.9553	FA1	TOR	–	12.00	FND-003	–	–
E282521B	2825+21	20.97	L	2	162112.0033	517760.2565	FA1	TOR	–	12.00	FND-003	–	–
E282541B	2825+41	22.38	L	2	162131.8497	517757.8143	FD1B	TOR	–	12.00	FND-001	–	–

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5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
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AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 15

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-015

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E282541A	2825+41	8.00	L	2	162132.5949	517772.1689	FD1B	TOR	–	12.00	FND-001	–	–
E282660A	2826+60	8.00	L	2	162252.2000	517765.9606	FD1B	TOR	–	12.00	FND-001	–	–
E282660B	2826+60	22.35	L	2	162251.5004	517751.6280	FD1B	TOR	–	12.00	FND-001	–	–
E282760B	2827+60	21.23	L	2	162352.2029	517748.8168	FD1B	TOR	–	12.00	FND-001	–	–
E282760A	2827+60	8.00	L	2	162352.4018	517762.0404	FD1B	TOR	–	12.00	FND-001	–	–
E282780B	2827+80	19.95	L	2	162372.1751	517749.9393	FA1	TOR	–	12.00	FND-003	–	–
E282780A	2827+80	10.13	L	2	162372.3600	517759.7596	FA1	TOR	–	12.00	FND-003	–	–
E282839B	2828+39	19.01	L	2	162432.6300	517752.6468	FD1A	TOR	–	12.00	FND-001	–	–
E282839A	2828+39	8.00	L	2	162431.9501	517763.6386	FD1A	TOR	–	12.00	FND-001	–	–
E282918B	2829+18	16.31	L	2	162512.3663	517763.9777	FD1A	TOR	–	12.00	FND-001	–	–
E282918A	2829+18	8.00	L	2	162511.0952	517772.1919	FD1A	TOR	–	12.00	FND-001	–	–
E282997	2829+97	10.70	L	2	162589.8972	517785.3673	FD1A	TOR	–	12.00	FND-001	–	–
E283076	2830+76	9.16	L	2	162666.0892	517809.8351	FD1A	TOR	–	12.00	FND-001	–	–
E283156	2831+56	7.75	L	2	162739.8055	517840.9982	FD1A	TOR	–	12.00	FND-001	–	–
E283275	2832+75	7.00	L	2	162847.0300	517894.8988	FD1A	TOR	–	12.00	FND-001	–	–
E283415	2834+15	7.00	L	2	162971.2440	517959.4847	FA1	TOR	–	12.00	FND-003	–	–
E283435	2834+35	7.00	L	2	162988.9886	517968.7112	FD1C	TOR	–	16.00	FND-001	–	–
E283590	2835+90	7.00	L	2	163126.5094	518040.2166	FA1	TOR	–	12.00	FND-003	–	–
E283610	2836+10	7.00	L	2	163144.2540	518049.4431	FD1F	TOR	–	16.00	FND-001	–	–
E284083B	2840+83	21.50	L	2	163306.2087	518117.3102	FD1D	TOR	–	12.00	FND-001	–	–
E284083A	2840+83	7.50	R	2	163292.8303	518143.0399	FD1D	TOR	–	12.00	FND-001	–	–
E284258	2842+58	6.64	L	2	163454.6184	518211.2340	FD1F	TOR	–	20.00	FND-001	–	–
E284278	2842+78	6.56	L	2	163472.3138	518220.5546	FA1	TOR	–	12.00	FND-003	–	–
E284418	2844+18	6.83	L	2	163595.5366	518287.6718	FD1C	TOR	–	20.00	FND-001	–	–
E284438	2844+38	6.85	L	2	163612.7962	518297.7767	FA1	TOR	–	12.00	FND-003	–	–
E284563	2845+63	7.00	L	2	163719.1338	518364.2692	FD1A	TOR	–	12.00	FND-001	–	–
E284697	2846+97	7.00	L	2	163828.9914	518441.4842	FD1A	TOR	–	12.00	FND-001	–	–
E284831	2848+31	7.00	L	2	163935.0421	518525.0262	FD1A	TOR	–	12.00	FND-001	–	–
E284966	2849+66	7.00	L	2	164036.3662	518614.2465	FD1A	TOR	–	12.00	FND-001	–	–
E285101	2851+01	6.83	L	2	164132.5325	518708.9866	FD1A	TOR	–	12.00	FND-001	–	–
E285235	2852+35	9.31	L	2	164225.3196	518807.0588	FD1A	TOR	–	12.00	FND-001	–	–
E285370A	2853+70	8.00	L	2	164309.9761	518912.8342	FD1A	TOR	–	12.00	FND-001	–	–
E285370B	2853+70	19.64	L	2	164319.2237	518905.7621	FD1A	TOR	–	12.00	FND-001	–	–
E285464A	2854+64	8.00	L	2	164365.8208	518988.0847	FD1A	TOR	–	12.00	FND-001	–	–
E285464B	2854+64	22.36	L	2	164377.5513	518979.8042	FD1A	TOR	–	12.00	FND-001	–	–
E285598B	2855+98	38.38	L	2	164468.0839	519081.2079	FD1A	TOR	–	12.00	FND-001	–	–
E285598A	2855+98	8.00	R	2	164430.0077	519107.6814	FD1A	TOR	–	12.00	FND-001	–	–
E285748B	2857+48	38.38	L	2	164553.7123	519204.3655	FD1A	TOR	–	12.00	FND-001	–	–
E285748A	2857+48	8.00	R	2	164515.6361	519230.8389	FD1A	TOR	–	12.00	FND-001	–	–
E285896B	2858+96	38.37	L	2	164637.7743	519325.2712	FD1A	TOR	–	12.00	FND-001	–	–
E285896A	2858+96	8.00	R	2	164599.7523	519351.8215	FD1A	TOR	–	12.00	FND-001	–	–
E285995B	2859+95	21.65	L	2	164680.4739	519416.6385	FA1	TOR	–	12.00	FND-003	–	–
E285995A	2859+95	8.00	L	2	164669.1890	519424.3204	FA1	TOR	–	12.00	FND-003	–	–
E286014	2860+14	21.08	L	2	164690.9901	519433.6505	FD1B	TOR	–	12.00	FND-001	–	–
E286015	2860+15	8.00	L	2	164680.1813	519441.0287	FD1B	TOR	–	12.00	FND-001	–	–
E286098B	2860+98	17.41	L	2	164731.4584	519508.4025	FD1B	TOR	–	12.00	FND-001	–	–
E286098A	2860+98	8.00	L	2	164723.4331	519513.3346	FD1B	TOR	–	12.00	FND-001	–	–
E286188	2861+88	9.69	L	2	164765.6566	519593.5076	FD1C	TOR	–	20.00	FND-001	–	–
E286208	2862+08	9.04	L	2	164773.2128	519612.0253	FA1	TOR	–	12.00	FND-003	–	–
E286298	2862+98	7.07	L	2	164804.3953	519696.6591	FD1B	TOR	–	12.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E286448	2864+48	7.00	L	2	164853.4354	519838.4159	FD1A	TOR	–	12.00	FND-001	–	–
E286628	2866+28	7.00	L	2	164912.1810	520008.5599	FD1A	TOR	–	12.00	FND-001	–	–
E286808	2868+08	7.00	L	2	164970.9266	520178.7038	FD1A	TOR	–	12.00	FND-001	–	–
E286988	2869+88	7.00	L	2	165029.6721	520348.8477	FD1A	TOR	–	12.00	FND-001	–	–
E287168	2871+68	7.37	L	2	165088.7866	520518.9257	FD1A	TOR	–	12.00	FND-001	–	–
E287318	2873+18	8.25	L	2	165139.4643	520660.0868	FD1A	TOR	–	12.00	FND-001	–	–
E287438	2874+38	7.50	L	2	165183.4628	520771.6976	FD1A	TOR	–	12.00	FND-001	–	–
E287539B	2875+39	7.52	L	2	165226.0910	520862.1707	FA1	TOR	–	12.00	FND-003	–	–
E287539A	2875+39	10.26	R	2	165210.3175	520870.3812	FA1	TOR	–	12.00	FND-003	–	–
E287559A	2875+59	9.00	R	2	165220.5262	520887.5796	FD1C	TOR	–	16.00	FND-001	–	–
E287559B	2875+59	7.50	L	2	165235.1761	520879.9881	FD1C	TOR	–	16.00	FND-001	–	–
E287679	2876+79	7.50	L	2	165293.8323	520984.6880	FD1E	TOR	–	12.00	FND-001	–	–
E287800A	2878+00	7.14	R	2	165347.1625	521093.7111	FD1E	TOR	–	12.00	FND-001	–	–
E287800B	2878+00	21.43	L	2	165370.6092	521077.3888	FD1E	TOR	–	12.00	FND-001	–	–
E287920	2879+20	7.50	L	2	165430.9359	521181.5308	FD1E	TOR	–	12.00	FND-001	–	–
E288041A	2880+41	10.43	R	2	165495.3417	521284.9552	FD1C	TOR	–	20.00	FND-001	–	–
E288041B	2880+41	8.30	L	2	165509.2833	521272.4468	FD1C	TOR	–	20.00	FND-001	–	–
E288061A	2880+61	10.31	R	2	165508.8403	521299.7128	FA1	TOR	–	12.00	FND-003	–	–
E288061B	2880+61	8.42	L	2	165522.7819	521287.2044	FA1	TOR	–	12.00	FND-003	–	–
E288112	2881+12	8.25	L	2	165557.5311	521325.1946	FA1	TOR	–	12.00	FND-003	–	–
E288132	2881+32	8.06	L	2	165571.0280	521339.9504	FD1C	TOR	–	16.00	FND-001	–	–
E288230	2882+30	7.50	R	2	165626.4721	521421.8492	FD1A	TOR	–	12.00	FND-001	–	–
E288240	2882+40	21.50	L	2	165654.1967	521409.0186	FD1A	TOR	–	12.00	FND-001	–	–
E288335	2883+35	7.50	R	2	165698.2123	521498.3476	FA1	TOR	–	12.00	FND-003	–	–
E288355	2883+55	7.50	R	2	165711.8935	521512.9361	FD1C	TOR	–	16.00	FND-001	–	–
E288363	2883+63	21.54	L	2	165738.6646	521499.0334	FD1E	TOR	–	12.00	FND-001	–	–
E288535B	2885+35	21.17	L	2	165856.1193	521624.8113	FD1D	TOR	–	12.00	FND-001	–	–
E288535A	2885+35	7.54	R	2	165835.2606	521644.5409	FD1D	TOR	–	12.00	FND-001	–	–
E288717A	2887+17	7.54	R	2	165959.3322	521776.8415	FD1D	TOR	–	12.00	FND-001	–	–
E288717B	2887+17	21.54	L	2	165980.5903	521757.0046	FD1E	TOR	–	12.00	FND-001	–	–
E288830	2888+30	21.77	L	2	166057.9588	521839.1720	FA1	TOR	–	12.00	FND-003	–	–
E288850B	2888+50	21.54	L	2	166071.4731	521853.9152	FD1E	TOR	–	12.00	FND-001	–	–
E288850A	2888+50	7.54	R	2	166050.4128	521873.9629	FD1E	TOR	–	12.00	FND-001	–	–
E288870	2888+70	7.64	R	2	166064.0187	521888.6216	FA1	TOR	–	12.00	FND-003	–	–
E288985	2889+85	7.00	L	2	166153.3432	521962.4676	FD1F	TOR	–	16.00	FND-001	–	–
E289005	2890+05	7.00	L	2	166167.0244	521977.0562	FA1	TOR	–	12.00	FND-003	–	–
E289146	2891+46	7.02	L	2	166263.7103	522080.2016	FD1A	TOR	–	12.00	FND-001	–	–
E289306	2893+06	9.05	L	2	166371.6788	522198.2529	FD1A	TOR	–	12.00	FND-001	–	–
E289326	2893+26	9.93	L	2	166385.2846	522212.9116	FA1	TOR	–	12.00	FND-003	–	–
E289450B	2894+50	18.03	L	2	166471.3349	522302.2808	FD1A	TOR	–	12.00	FND-001	–	–
E289450A	2894+50	7.50	L	2	166463.3450	522309.1471	FD1A	TOR	–	12.00	FND-001	–	–
E289589	2895+89	7.50	L	2	166553.1550	522414.9868	FD1A	TOR	–	12.00	FND-001	–	–
E289600	2896+00	25.34	L	2	166573.8739	522411.6206	FD1A	TOR	–	12.00	FND-001	–	–
E289714A	2897+14	7.50	L	2	166636.8876	522507.9756	FD1A	TOR	–	12.00	FND-001	–	–
E289714B	2897+14	27.46	L	2	166651.5022	522494.3790	FD1A	TOR	–	12.00	FND-001	–	–
E289807	2898+07	42.50	L	2	166726.3089	522552.2457	FD1A	TOR	–	12.00	FND-001	–	–
E289809	2898+09	6.88	R	2	166691.2794	522587.0735	FD1A	TOR	–	12.00	FND-001	–	–
E289879	2898+79	7.00	R	2	166739.0767	522638.2148	FD1A	TOR	–	12.00	FND-001	–	–
E289912	2899+12	42.50	L	2	166797.9157	522628.5986	FD1A	TOR	–	12.00	FND-001	–	–
E289949	2899+49	7.00	R	2	166786.9608	522689.2747	FD1A	TOR	–	12.00	FND-001	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 17

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-017

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
E289912	2899+12	42.50	L	2	166797.9157	522628.5986	FD1A	TOR	–	12.00	FND-001	–	–
E289949	2899+49	7.00	R	2	166786.9608	522689.2747	FD1A	TOR	–	12.00	FND-001	–	–
E290012	2900+12	42.50	L	2	166866.5255	522701.7550	FD1A	TOR	–	12.00	FND-001	–	–
E290025	2900+25	7.00	R	2	166838.9327	522744.6935	FD1A	TOR	–	12.00	FND-001	–	–
E290087	2900+87	42.50	L	2	166917.7213	522756.3460	FD1A	TOR	–	12.00	FND-001	–	–
E290105	2901+05	7.00	R	2	166893.6109	522802.9982	FD1A	TOR	–	12.00	FND-001	–	–
E290187	2901+87	27.49	L	2	166975.2189	522839.5979	FD1A	TOR	–	12.00	FND-001	–	–
E290205	2902+05	7.50	L	2	166972.5934	522866.0222	FD1A	TOR	–	12.00	FND-001	–	–
E290267	2902+67	26.98	L	2	167029.4632	522898.2471	FD1A	TOR	–	12.00	FND-001	–	–
E290310	2903+10	7.46	L	2	167044.2241	522942.9386	FA1	TOR	–	12.00	FND-003	–	–
E290322	2903+22	25.19	L	2	167065.5288	522939.9547	FA1	TOR	–	12.00	FND-003	–	–
E290330	2903+30	7.50	L	2	167057.7391	522957.6812	FD1C	TOR	–	20.00	FND-001	–	–
E290342	2903+42	25.53	L	2	167079.2099	522954.5432	FD1C	TOR	–	20.00	FND-001	–	–
E290440B	2904+40	22.53	L	2	167141.9872	523031.8104	FD1B	TOR	–	15.00	FND-001	–	–
E290440A	2904+40	7.50	L	2	167130.3974	523041.3739	FD1B	TOR	–	15.00	FND-001	–	–
E290559B	2905+59	18.67	L	2	167212.6661	523129.3441	FD1C	TOR	–	20.00	FND-001	–	–
E290559A	2905+59	7.50	L	2	167203.6425	523135.9332	FD1C	TOR	–	20.00	FND-001	–	–
E290579B	2905+79	17.60	L	2	167223.4660	523146.1775	FA1	TOR	–	12.00	FND-003	–	–
E290579A	2905+79	7.37	L	2	167215.2269	523152.2366	FA1	TOR	–	12.00	FND-003	–	–
E290679A	2906+79	7.50	L	2	167271.0945	523234.6396	FD1A	TOR	–	12.00	FND-001	–	–
E290679B	2906+79	14.72	L	2	167277.3180	523230.9611	FD1A	TOR	–	12.00	FND-001	–	–
E290790	2907+90	9.23	L	2	167330.4164	523329.8468	FD1A	TOR	–	12.00	FND-001	–	–
E290918	2909+18	7.43	L	2	167388.1538	523443.9432	FD1A	TOR	–	12.00	FND-001	–	–
E291038	2910+38	7.00	L	2	167438.8029	523552.6956	FD1A	TOR	–	12.00	FND-001	–	–
E291169	2911+69	7.00	L	2	167493.7729	523672.0896	FD1A	TOR	–	12.00	FND-001	–	–
E291342	2913+42	7.00	L	2	167566.1695	523829.3342	FD1A	TOR	–	12.00	FND-001	–	–
E291547	2915+47	7.00	L	2	167651.8496	524015.4304	FD1A	TOR	–	12.00	FND-001	–	–
E291763	2917+63	7.18	L	2	167742.3518	524211.5737	FD1A	TOR	–	12.00	FND-001	–	–
E291927	2919+27	21.45	L	2	167825.3747	524353.7426	FA1	TOR	–	12.00	FND-003	–	–
E291928	2919+28	8.08	R	2	167798.9659	524366.9532	FA1	TOR	–	12.00	FND-003	–	–
E291947B	2919+47	21.01	L	2	167833.8704	524371.8485	FD1C	TOR	–	16.00	FND-001	–	–
E291947A	2919+47	7.00	R	2	167808.8142	524384.3604	FD1C	TOR	–	16.00	FND-001	–	–
E292140	2921+40	7.00	L	2	167910.2850	524548.0712	FD1E	TOR	–	14.00	FND-001	–	–
E292320	2923+20	6.71	L	2	167995.1227	524706.8247	FD1E	TOR	–	14.00	FND-001	–	–
E292519	2925+19	21.51	L	2	168100.6593	524877.8885	FD1C	TOR	–	20.00	FND-001	–	SEE NOTE 4
E292520	2925+20	8.00	R	2	168074.2267	524891.0084	FD1C	TOR	–	20.00	FND-001	–	–
E292539	2925+39	21.54	L	2	168109.4909	524895.8329	FA1	TOR	–	12.00	FND-003	–	SEE NOTE 4
E292540	2925+40	7.97	R	2	168083.0584	524908.9528	FA1	TOR	–	12.00	FND-003	–	–
E292699	2926+99	6.91	L	2	168163.9546	525047.5745	FD1A	TOR	–	12.00	FND-001	–	–
E292838	2928+38	7.00	L	2	168220.3905	525174.1872	FD1A	TOR	–	12.00	FND-001	–	–
E292998	2929+98	7.25	L	2	168285.6322	525320.3059	FD1A	TOR	–	12.00	FND-001	–	–
E293127	2931+27	22.03	L	2	168352.1851	525431.3235	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293158	2931+58	8.00	R	2	168338.4589	525472.5737	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293268	2932+68	22.10	L	2	168413.8418	525557.0199	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293318	2933+18	7.97	R	2	168410.1919	525615.0520	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293398	2933+98	21.93	L	2	168474.9556	525671.6315	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293457	2934+57	7.25	R	2	168478.6109	525737.1924	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293520	2935+20	23.64	L	2	168536.8283	525775.1891	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293567	2935+67	10.46	R	2	168531.9259	525832.7660	PA1A	–	–	–	FND-006	–	SEE NOTE 5
E293610	2936+10	22.25	L	2	168582.5246	525852.0318	PA1A	–	–	–	FND-006	–	SEE NOTE 5

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 18

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-018

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STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
E293647	2936+47	8.03	R	2	168577.2587	525900.0082	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293688	2936+88	21.71	L	2	168624.2149	525917.4698	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293730	2937+30	7.55	R	2	168623.5192	525969.0203	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293748	2937+48	22.12	L	2	168657.9604	525966.8926	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293794	2937+94	21.68	L	2	168683.7946	526001.7902	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293795	2937+95	8.49	R	2	168662.0794	526022.7655	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293840	2938+40	8.38	R	2	168696.4287	526054.2137	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293843	2938+43	22.39	L	2	168716.6864	526030.9598	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293886	2938+86	8.39	R	2	168735.8932	526078.9220	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293890	2938+90	21.82	L	2	168753.4758	526053.9075	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293931	2939+31	8.54	R	2	168779.1757	526096.0817	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293938	2939+38	21.82	L	2	168794.3838	526068.7736	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E293976	2939+76	8.53	R	2	168824.9167	526104.8586	FD1D	TOR	–	12.00	FND–001	–	–
E293981	2939+81	22.53	L	2	168832.7626	526074.3618	FD1D	TOR	–	12.00	FND–001	–	–
E294009	2940+09	6.98	R	2	168859.8124	526104.2885	FD1D	TOR	–	12.00	FND–001	–	–
E294028	2940+28	22.01	L	2	168875.5512	526073.9709	FD1D	TOR	–	12.00	FND–001	–	–
E294055	2940+55	29.21	R	2	168911.0225	526119.7026	FD1E	TOR	–	12.00	FND–001	–	–
E294074	2940+74	19.81	R	2	168928.4362	526105.2332	FD1E	TOR	–	12.00	FND–001	–	–
E294096	2940+96	8.50	R	2	168946.9076	526086.4580	FD1D	TOR	–	12.00	FND–001	–	–
E294110	2941+10	21.52	L	2	168946.7077	526053.6213	FD1D	TOR	–	12.00	FND–001	–	–
E294141	2941+41	8.84	R	2	168988.3679	526064.7787	FD1G	TOR	–	20.00	FND–001	–	–
E294151	2941+51	23.02	L	2	168978.3774	526033.0503	FD1G	TOR	–	20.00	FND–001	–	–
E294193	2941+93	7.00	L	2	169020.8998	526021.8225	FD1E	TOR	–	16.00	FND–001	–	–
E294244B	2942+44	23.14	L	2	169053.8984	525978.1456	FD1G	TOR	–	20.00	FND–001	–	–
E294244A	2942+44	8.78	R	2	169071.3534	526004.8609	FD1G	TOR	–	20.00	FND–001	–	–
E294279A	2942+79	8.78	R	2	169100.8350	525989.6230	FD1D	TOR	–	12.00	FND–001	–	–
E294279B	2942+79	23.18	L	2	169089.4012	525959.7854	FD1D	TOR	–	12.00	FND–001	–	–
E294314A	2943+14	8.77	R	2	169132.8979	525980.7153	FD1D	TOR	–	12.00	FND–001	–	–
E294314B	2943+14	23.18	L	2	169127.6366	525949.2070	FD1D	TOR	–	12.00	FND–001	–	–
E294349A	2943+49	8.79	R	2	169166.3671	525978.2954	FD1D	TOR	–	12.00	FND–001	–	–
E294349B	2943+49	23.16	L	2	169166.1920	525946.3487	FD1D	TOR	–	12.00	FND–001	–	–
E294401	2944+01	7.03	L	2	169218.0612	525962.5339	FD1D	TOR	–	12.00	FND–001	–	–
E294474	2944+74	7.00	L	2	169291.4141	525962.6877	FD1D	TOR	–	12.00	FND–001	–	–
E294563	2945+63	7.00	L	2	169380.4334	525962.8338	FD1D	TOR	–	12.00	FND–001	–	–
E294653	2946+53	7.00	L	2	169470.5334	525962.9814	FD1D	TOR	–	12.00	FND–001	–	–
E294783	2947+83	7.00	L	2	169600.5332	525963.1943	FD1D	TOR	–	12.00	FND–001	–	–
E294933	2949+33	6.98	L	2	169750.5314	525963.0571	FD1D	TOR	–	12.00	FND–001	–	–
E295034	2950+34	7.00	L	2	169850.3810	525957.6294	FD1D	TOR	–	12.00	FND–001	–	–
E295134B	2951+34	22.50	L	2	169948.5725	525933.1812	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295134A	2951+34	8.50	R	2	169951.3751	525964.0542	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295224B	2952+24	22.50	L	2	170038.3539	525925.0941	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295224A	2952+24	8.50	R	2	170040.8885	525955.9936	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295283B	2952+83	22.59	L	2	170100.0301	525922.5611	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295283A	2952+83	8.50	R	2	170099.3782	525953.6501	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295327A	2953+27	8.50	R	2	170141.8602	525957.5918	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295327B	2953+27	22.70	L	2	170147.2793	525926.8667	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295371B	2953+71	22.81	L	2	170193.5421	525939.1519	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295371A	2953+71	8.50	R	2	170182.8494	525968.5752	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295415A	2954+15	8.50	R	2	170221.0415	525986.4234	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295415B	2954+15	22.96	L	2	170236.8445	525959.2162	PA1A	–	–	–	FND–006	–	SEE NOTE 5

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 19

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-PFS-019

SHEET 408 OF 464

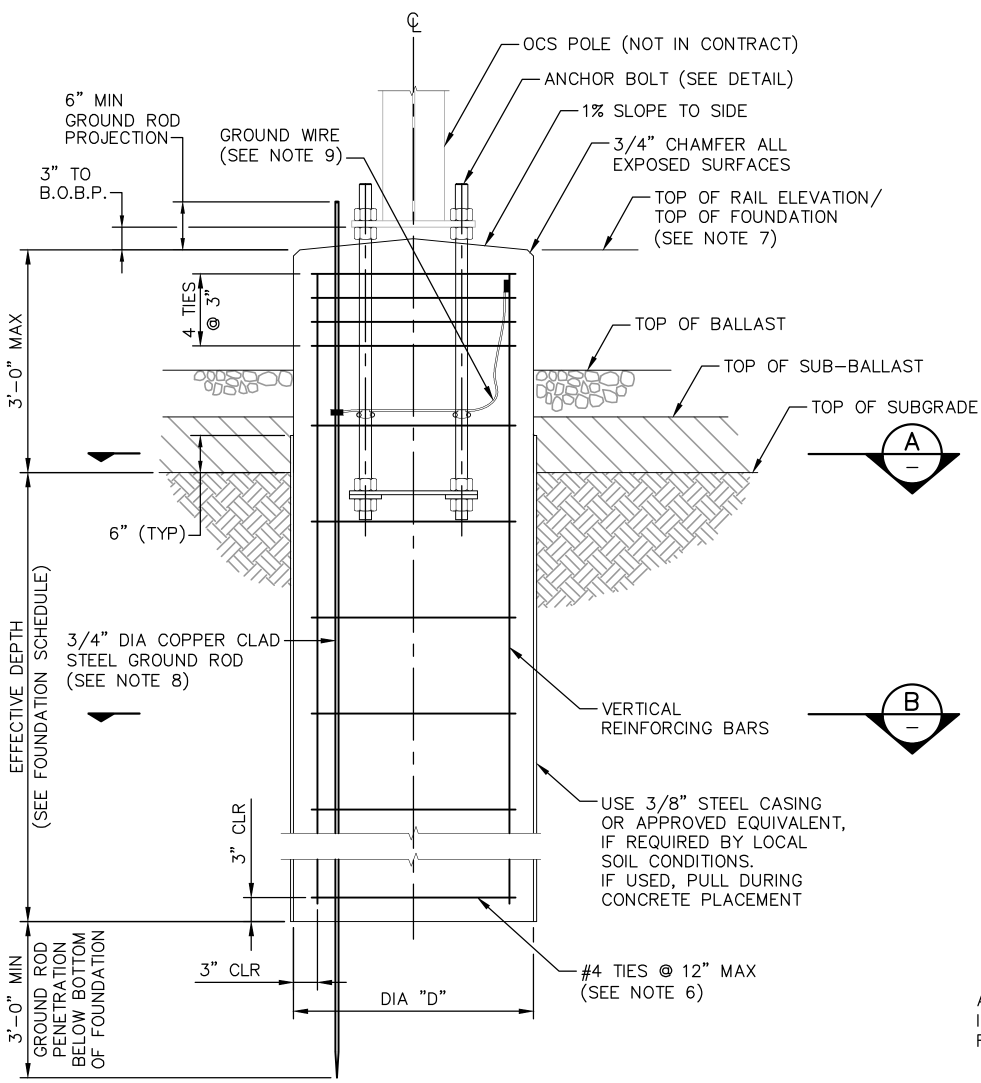
STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
E295459B	2954+59	23.17	L	2	170276.0480	525986.5031	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295459A	2954+59	8.50	R	2	170255.8083	526010.8604	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295503B	2955+03	23.41	L	2	170309.9835	526020.2384	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295503A	2955+03	8.50	R	2	170285.5166	526040.7289	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295546B	2955+46	23.69	L	2	170337.5184	526059.3086	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295546A	2955+46	8.50	R	2	170309.7054	526075.5201	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295590B	2955+90	24.00	L	2	170357.8735	526102.6035	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295590A	2955+90	8.50	R	2	170327.3607	526113.7800	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295634B	2956+34	24.30	L	2	170370.3874	526148.6473	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295634A	2956+34	8.51	R	2	170338.1529	526154.7318	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E295686	2956+86	8.50	R	2	170343.1943	526205.0524	PA1F	–	–	–	FND–006	–	SEE NOTE 5
E295687	2956+87	24.45	L	2	170376.1734	526205.1980	PA1F	–	–	–	FND–006	–	SEE NOTE 5
E295740	2957+40	7.50	R	2	170344.7360	526258.7333	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295741	2957+41	23.50	L	2	170375.7325	526259.6793	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295805	2958+05	7.50	R	2	170344.4792	526323.9925	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295806	2958+06	8.00	L	2	170359.9747	526324.6173	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295880	2958+80	7.50	R	2	170344.1822	526399.0126	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295881	2958+81	8.00	L	2	170359.6747	526400.3874	PA1D	–	–	–	FND–006	–	SEE NOTE 5
E295943B	2959+43	8.00	L	2	170359.4294	526462.0346	PA1C	–	–	–	FND–006	–	SEE NOTE 5
E295943A	2959+43	7.50	R	2	170343.9295	526462.0693	PA1C	–	–	–	FND–006	–	SEE NOTE 5
E295963B	2959+63	8.00	L	2	170359.3501	526482.0306	PA1	–	–	–	FND–007	–	SEE NOTE 5
E295963A	2959+63	7.50	R	2	170343.8501	526482.0652	PA1	–	–	–	FND–007	–	SEE NOTE 5
E296024	2960+24	8.75	L	2	170359.8574	526543.2080	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E296084	2960+84	8.70	L	2	170359.3802	526603.6696	PA1A	–	–	–	FND–006	–	SEE NOTE 5
E296136	2961+36	8.33	L	2	170353.5137	526656.5680	PA1A	–	–	–	FND–006	–	SEE NOTE 5
I17	–	–	–	–	–	–	–	–	–	–	–	–	–
I16	–	–	–	–	–	–	–	–	–	–	–	–	–
I15	–	–	–	–	–	–	–	–	–	–	–	–	–
I12	–	–	–	–	–	–	–	–	–	–	–	–	–
I11a	–	–	–	–	–	–	–	–	–	–	–	–	–
I11b	–	–	–	–	–	–	–	–	–	–	–	–	–
I10a	–	–	–	–	–	–	–	–	–	–	–	–	–
I10b	–	–	–	–	–	–	–	–	–	–	–	–	–
I9	–	–	–	–	–	–	–	–	–	–	–	–	–
I8	–	–	–	–	–	–	–	–	–	–	–	–	–

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

BOLT AND REINFORCING SCHEDULE

TYPE	D DIA (IN)	REINFORCEMENT		ANCHOR BOLT DIMENSIONS			
		SIZE	QUANTITY	BC (IN)	DIA (IN)	L (IN)	P (IN)
FD1A	30	#8	8	16	1.25	48	10
FD1B	36	#8	10	18	1.50	54	10
FD1C	36	#8	12	22	2.00	60	10
FD1D	30	#8	8	15	1.25	48	10
FD1E	36	#8	10	19	1.50	54	10
FD1F	36	#8	12	23	1.75	60	10
FD1G	36	#8	12	23	2.25	66	12



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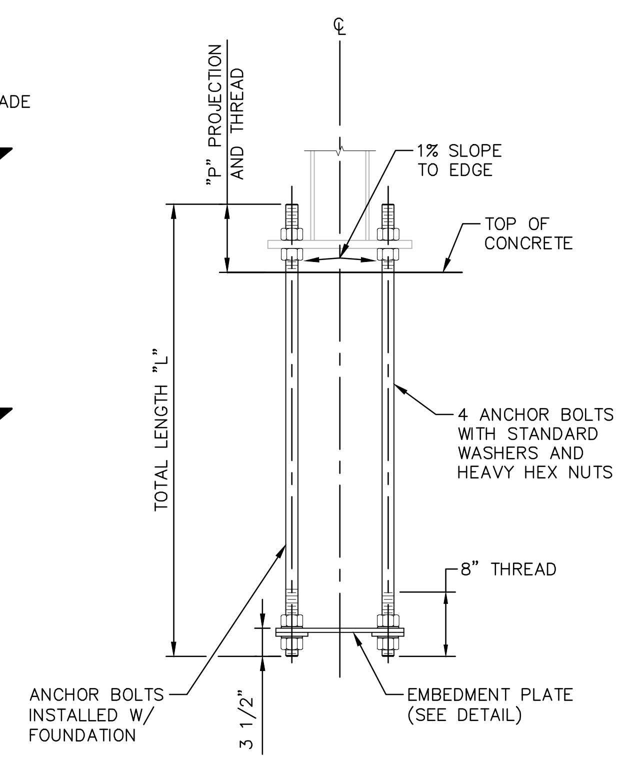

2 ANCHOR BOLT DETAIL
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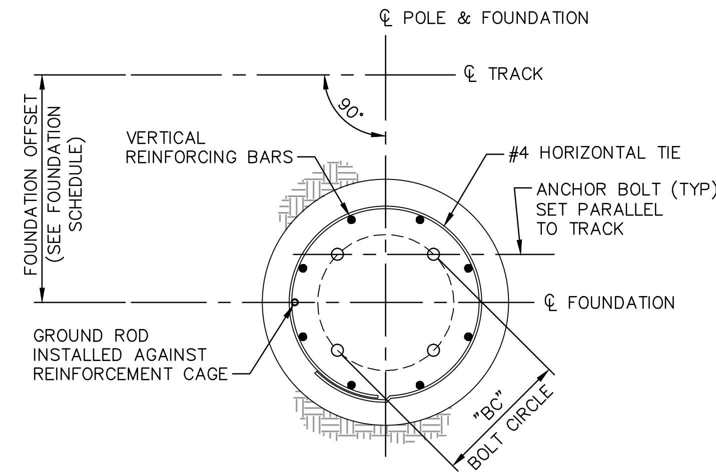

A SECTION
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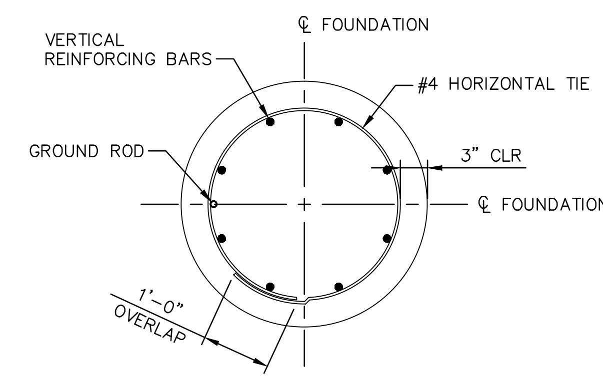

B SECTION
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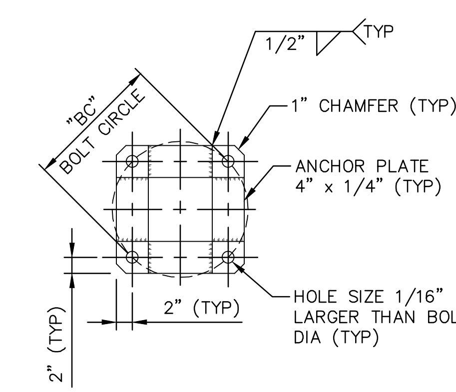

3 EMBEDMENT PLATE DETAIL
NOT TO SCALE

NOTES:

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND THE SPECIFICATIONS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS, LATEST EDITION.
4. PROVIDE BOLT PATTERN TEMPLATE FOR ANCHOR BOLT INSTALLATION.
5. ROTATE REINFORCEMENT CAGE TO AVOID CONFLICT WITH ANCHOR BOLTS AND EMBEDMENT PLATE.
6. NO. 4 SPIRALS AT 4 INCHES (MAXIMUM) PITCH MAY BE SUBSTITUTED FOR REBAR TIES.
7. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, CONDUIT LOCATIONS AND NUMBERS, FOUNDATION TYPES, OFFSETS AND EFFECTIVE DEPTH. CONDUIT LOCATIONS AND NUMBERS MUST BE COORDINATED WITH SYSTEMWIDE ELECTRICAL PLAN AND DETAILS, TRAFFIC AND LRT SIGNALS DRAWINGS.
8. INSTALL A 3/4" DIA COPPER CLAD STEEL GROUND ROD IN EACH FOUNDATION AS SHOWN, DRIVEN VERTICALLY.
9. EXOTHERMICALLY WELD 4/0 GROUND WIRE TO REBAR CAGE AND GROUND ROD, AND CLAMP TO ANCHOR BOLTS USING A BURNDY GAR GROUND CONNECTOR, OR APPROVED EQUAL.
10. POLE TO GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS. USE ADDITIONAL GROUND RODS AS REQUIRED.
11. AT LOCATIONS WITH ADDITIONAL GROUNDING FOR SURGE ARRESTORS, THE MAXIMUM RESISTANCE-TO-EARTH FOR THE COMBINED GROUND SYSTEM IS NOT TO EXCEED 5 OHMS.
12. REFER TO SYSTEMWIDE ELECTRICAL PLAN AND DETAILS FOR DUCT BANK LAYOUT, CONDUIT LAYOUT AND CONDUIT DETAILS AT OCS FOUNDATIONS.
13. TACK WELD TOP AND BOTTOM TIES OF REINFORCEMENT CAGE TO VERTICAL REINFORCEMENT.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

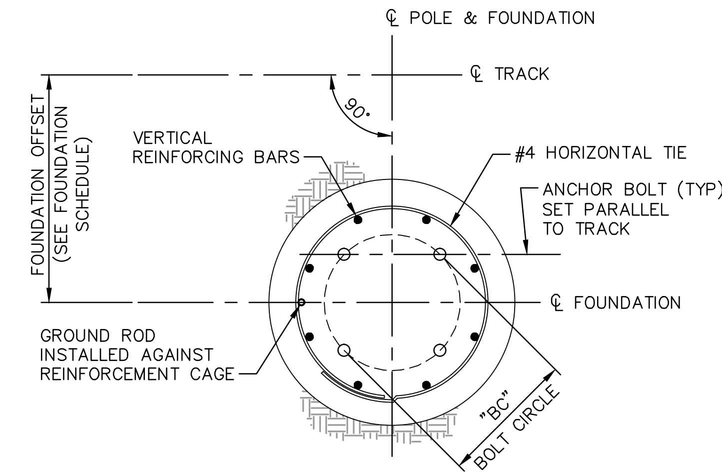
CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION ASSEMBLY
BALLASTED TRACK

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-FND-001

BOLT AND REINFORCING SCHEDULE

TYPE	D DIA (IN)	REINFORCEMENT SIZE	REINFORCEMENT QUANTITY	ANCHOR BOLT DIMENSIONS BC (IN)	ANCHOR BOLT DIMENSIONS DIA (IN)	ANCHOR BOLT DIMENSIONS L (IN)	ANCHOR BOLT DIMENSIONS P (IN)
FD2A	30	#8	8	16	1.25	48	10
FD2B	36	#8	10	18	1.50	54	10
FD2C	36	#8	12	22	2.00	60	10
FD2D	30	#8	8	15	1.25	48	10
FD2E	36	#8	10	19	1.50	54	10
FD2F	36	#8	12	23	1.75	60	10



A SECTION
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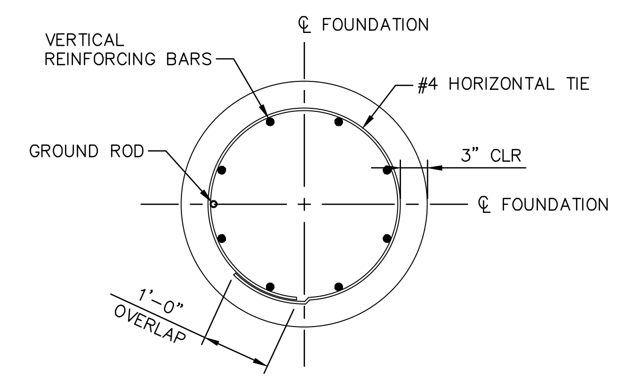
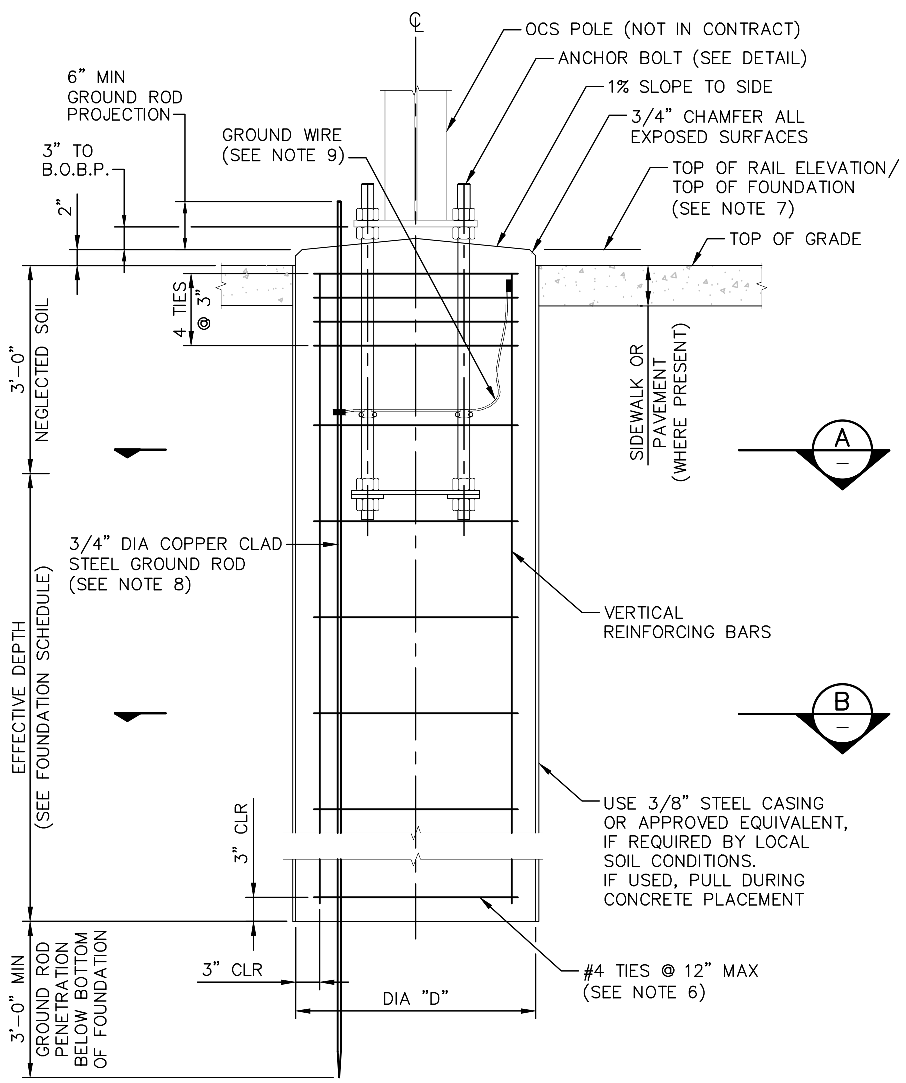


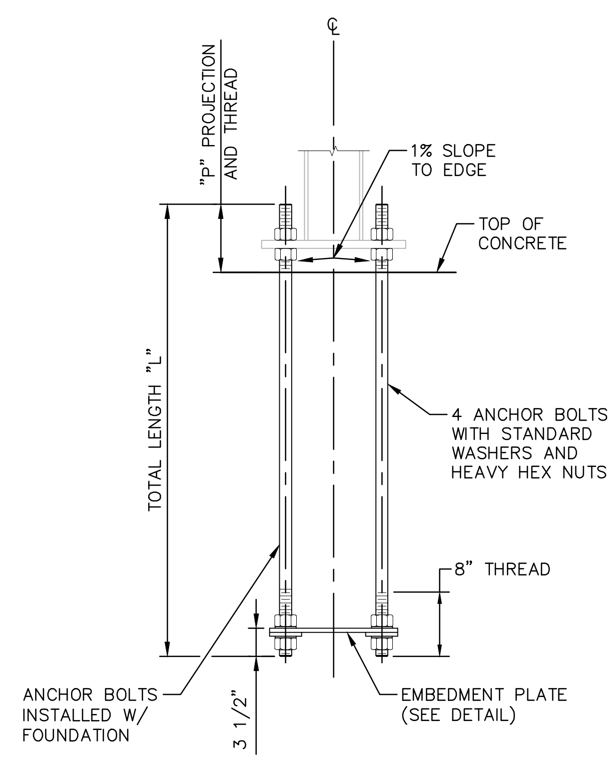
B SECTION
NOT TO SCALE

NOTES:

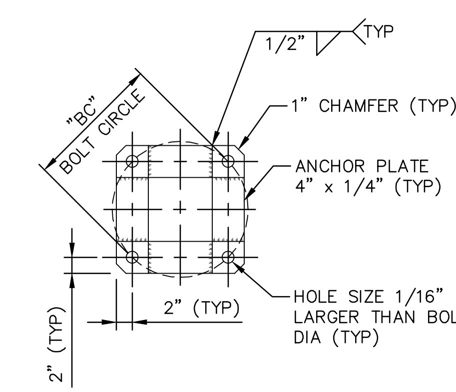
1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND THE SPECIFICATIONS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS, LATEST EDITION.
4. PROVIDE BOLT PATTERN TEMPLATE FOR ANCHOR BOLT INSTALLATION.
5. ROTATE REINFORCEMENT CAGE TO AVOID CONFLICT WITH ANCHOR BOLTS AND EMBEDMENT PLATE.
6. NO. 4 SPIRALS AT 4 INCHES (MAXIMUM) PITCH MAY BE SUBSTITUTED FOR REBAR TIES.
7. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, CONDUIT LOCATIONS AND NUMBERS, FOUNDATION TYPES, OFFSETS AND EFFECTIVE DEPTH. CONDUIT LOCATIONS AND NUMBERS MUST BE COORDINATED WITH SYSTEMWIDE ELECTRICAL PLAN AND DETAILS, TRAFFIC AND LRT SIGNALS DRAWINGS.
8. INSTALL A 3/4" DIA COPPER CLAD STEEL GROUND ROD IN EACH FOUNDATION AS SHOWN, DRIVEN VERTICALLY.
9. EXOTHERMICALLY WELD 4/0 GROUND WIRE TO REBAR CAGE AND GROUND ROD, AND CLAMP TO ANCHOR BOLTS USING A BURNDY GAR GROUND CONNECTOR, OR APPROVED EQUAL.
10. POLE TO GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS. USE ADDITIONAL GROUND RODS AS REQUIRED.
11. AT LOCATIONS WITH ADDITIONAL GROUNDING FOR SURGE ARRESTORS, THE MAXIMUM RESISTANCE-TO-EARTH FOR THE COMBINED GROUND SYSTEM IS NOT TO EXCEED 5 OHMS.
12. REFER TO SYSTEMWIDE ELECTRICAL PLAN AND DETAILS FOR DUCT BANK LAYOUT, CONDUIT LAYOUT AND CONDUIT DETAILS AT OCS FOUNDATIONS.
13. TACK WELD TOP AND BOTTOM TIES OF REINFORCEMENT CAGE TO VERTICAL REINFORCEMENT.



1 ELEVATION
NOT TO SCALE



2 ANCHOR BOLT DETAIL
NOT TO SCALE



3 EMBEDMENT PLATE DETAIL
NOT TO SCALE

Jan. 18 2016 10:15 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\OCS\CE, CW & OMF\W0-SYS-OCS-FND.dwg By: butlerj2

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

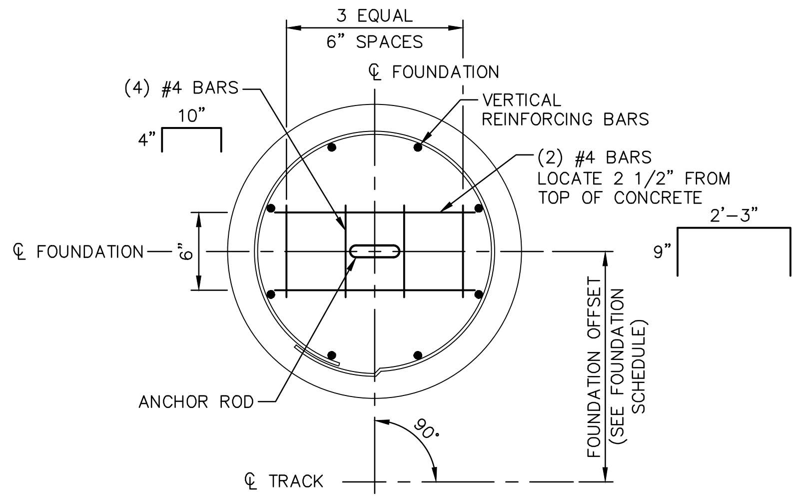
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION ASSEMBLY
MEDIAN OR NEUTRAL AREA

DISCIPLINE: OCS

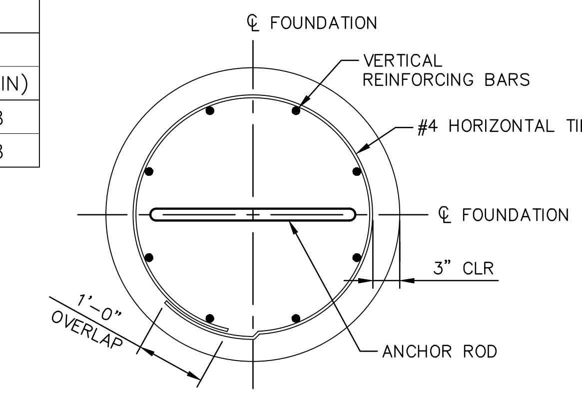
SHEET NAME: 00-SYS-OCS-FND-002

SHEET 411 OF 464



1 PLAN – TYPICAL GUY ANCHOR FOUNDATION
NOT TO SCALE

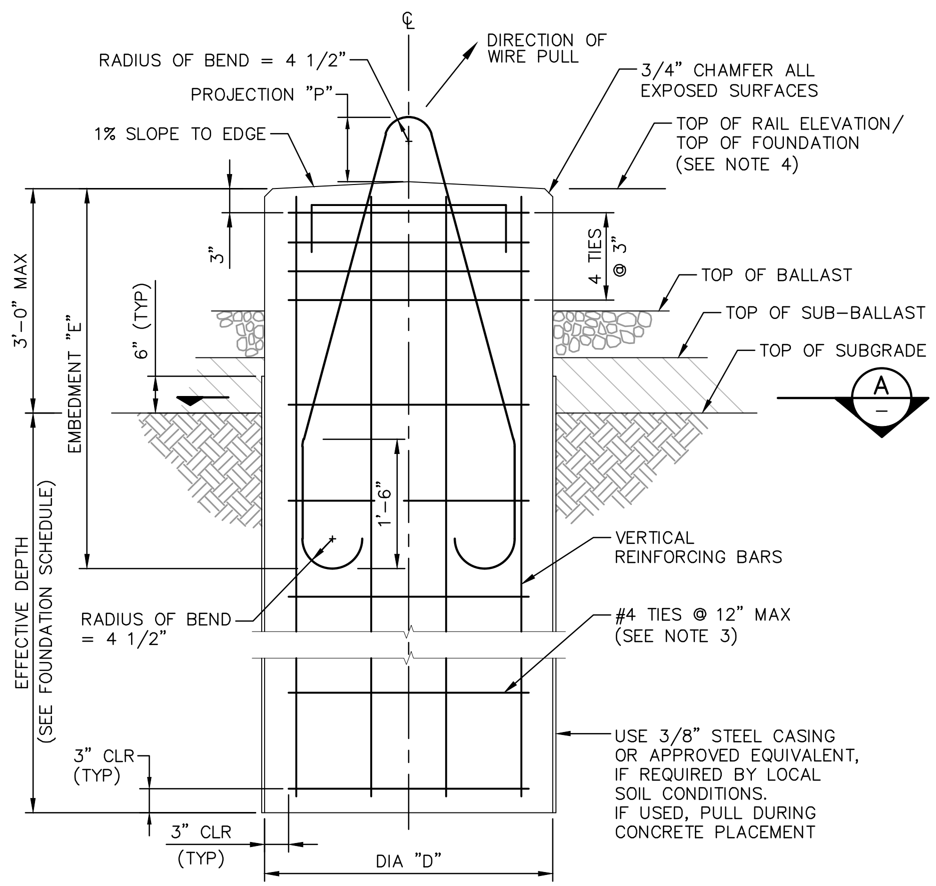
REINFORCING SCHEDULE						
TYPE	D	REINFORCEMENT		ANCHOR RODS		
	DIA (IN)	SIZE	QUANTITY	DIA (IN)	E (IN)	P (IN)
FA1	36	#8	8	1.50	48	8
FA2	36	#8	8	1.50	48	8



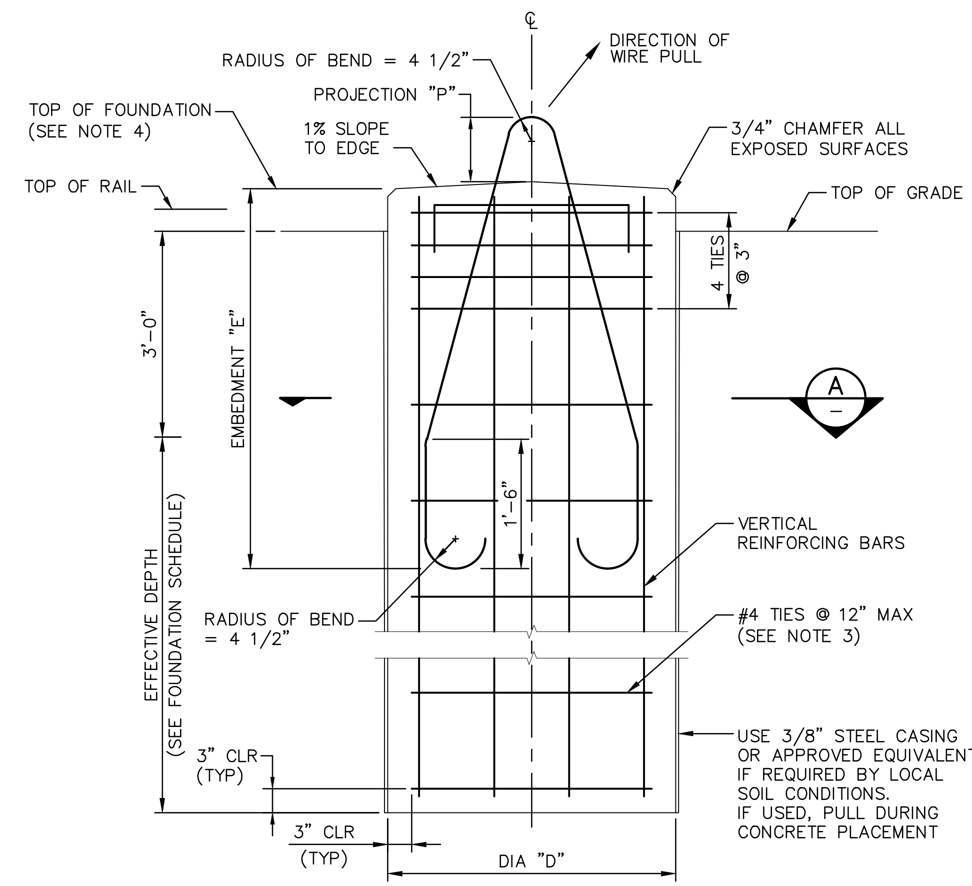
A SECTION
NOT TO SCALE

NOTES:

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
3. NO. 4 SPIRALS AT 4 INCHES (MAXIMUM) PITCH MAY BE SUBSTITUTED FOR REBAR TIES.
4. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, FOUNDATION TYPES, OFFSET AND EFFECTIVE DEPTH.



2 ELEVATION – GUY ANCHOR FOUNDATION BALLASTED TRACK (FA1)
NOT TO SCALE



3 ELEVATION – GUY ANCHOR FOUNDATION MEDIAN (FA2)
NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

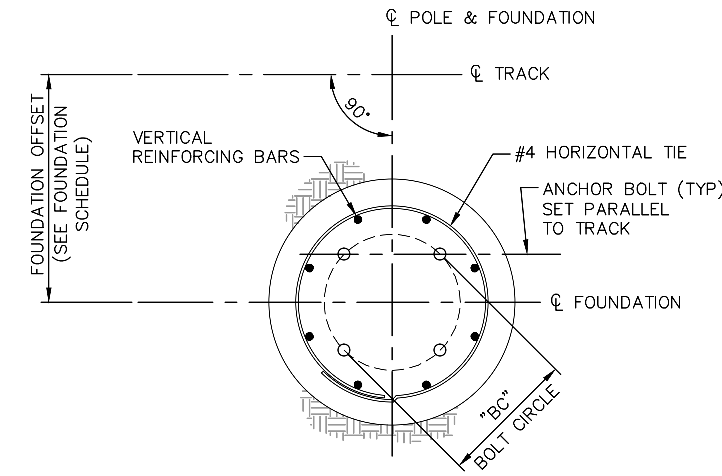
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
GUY FOUNDATION ASSEMBLY

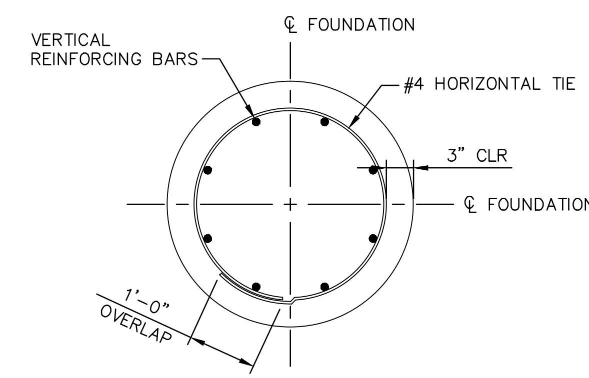
DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-FND-003

BOLT AND REINFORCING SCHEDULE							
TYPE	D DIA (IN)	REINFORCEMENT		ANCHOR BOLT DIMENSIONS			
		SIZE	QUANTITY	BC (IN)	DIA (IN)	L (IN)	P (IN)
FD3A	30	#8	8	16	1.25	48	10
FD3B	36	#8	10	18	1.50	54	10
FD3C	36	#8	12	22	2.00	60	10
FD3D	30	#8	8	15	1.25	48	10
FD3E	36	#8	10	19	1.50	54	10
FD3F	36	#8	12	23	1.75	60	10



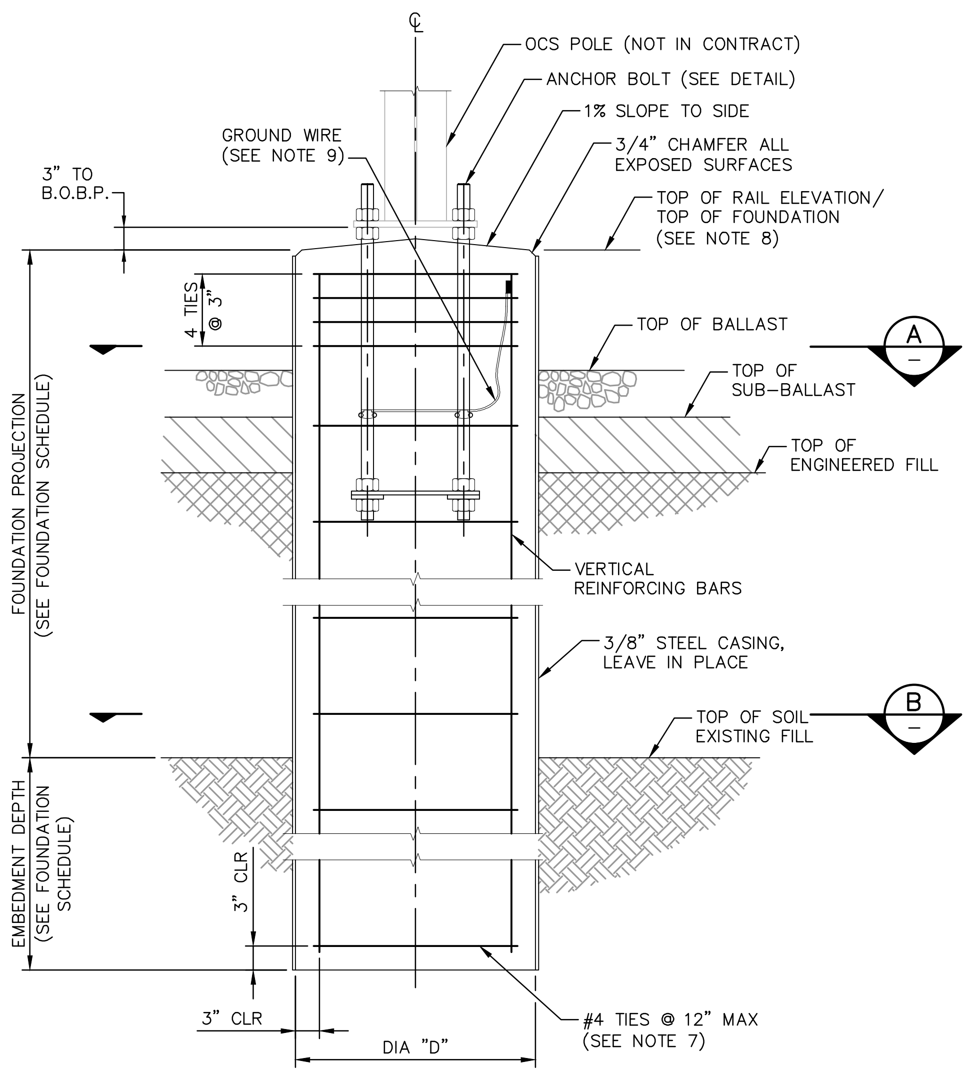
A SECTION
NOT TO SCALE



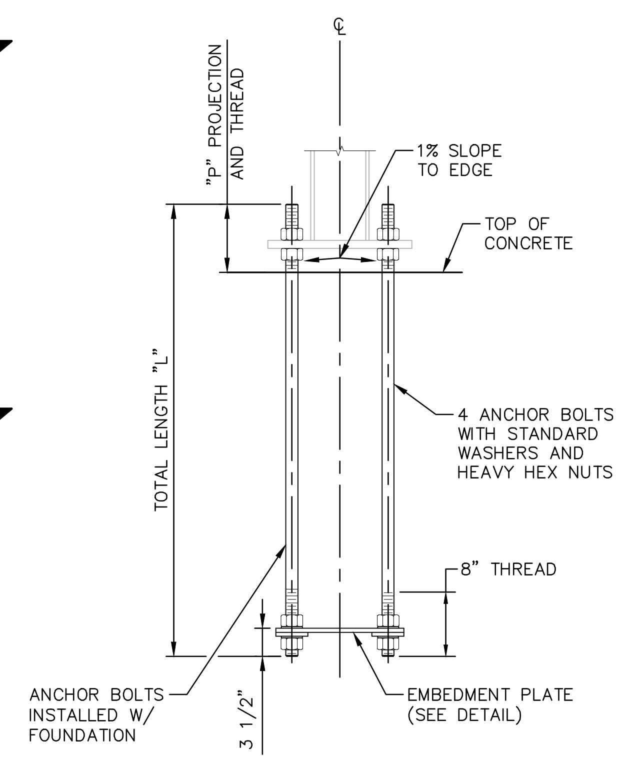
B SECTION
NOT TO SCALE

NOTES:

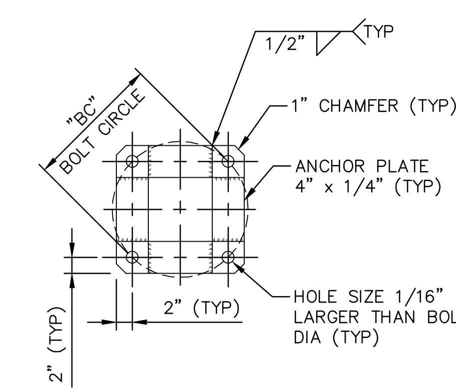
1. INSTALL TYPE FD3x FOUNDATIONS PRIOR TO MSE CONSTRUCTION. MONITOR FOUNDATIONS DURING MSE CONSTRUCTION TO ENSURE THAT ALL TOLERANCES ARE MAINTAINED.
2. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND THE SPECIFICATIONS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
4. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS, LATEST EDITION.
5. PROVIDE BOLT PATTERN TEMPLATE FOR ANCHOR BOLT INSTALLATION.
6. ROTATE REINFORCEMENT CAGE TO AVOID CONFLICT WITH ANCHOR BOLTS AND EMBEDMENT PLATE.
7. NO. 4 SPIRALS AT 4 INCHES (MAXIMUM) PITCH MAY BE SUBSTITUTED FOR REBAR TIES.
8. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, FOUNDATION TYPES, OFFSET AND EFFECTIVE DEPTH.
9. EXOTHERMICALLY WELD 4/0 GROUND WIRE TO REBAR CAGE AND CLAMP TO ANCHOR BOLTS USING A BURNDY GAR GROUND CONNECTOR, OR APPROVED EQUAL.
10. POLE TO GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS. USE GROUND RODS AS REQUIRED.
11. AT LOCATIONS WITH ADDITIONAL GROUNDING FOR SURGE ARRESTORS, THE MAXIMUM RESISTANCE-TO-EARTH FOR THE COMBINED GROUND SYSTEM IS NOT TO EXCEED 5 OHMS.
12. REFER TO SYSTEMWIDE ELECTRICAL PLAN AND DETAILS FOR DUCT BANK LAYOUT, CONDUIT LAYOUT AND CONDUIT DETAILS AT OCS FOUNDATIONS.
13. TACK WELD TOP AND BOTTOM TIES OF REINFORCEMENT CAGE TO VERTICAL REINFORCEMENT.



1 ELEVATION
NOT TO SCALE



2 ANCHOR BOLT DETAIL
NOT TO SCALE



3 EMBEDMENT PLATE DETAIL
NOT TO SCALE

Jan. 18 2016 10:15 am V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\OCS\CE, CW & OMF\WD-SYS-OCS-FND.dwg By: butlerj2

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

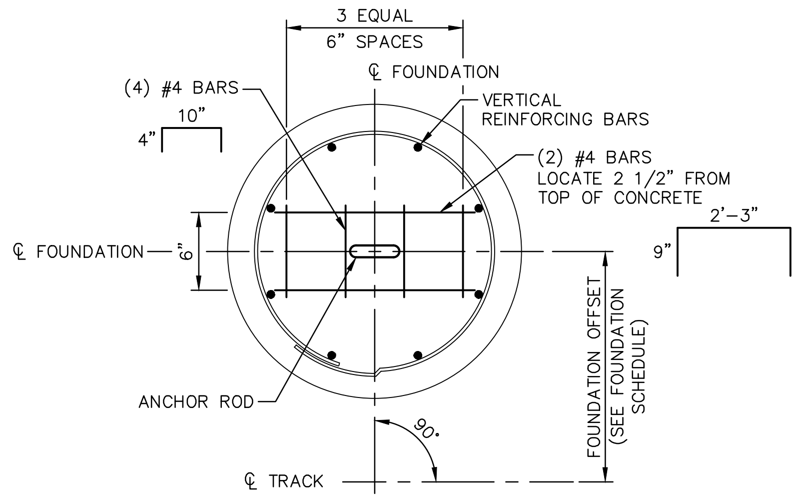
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION ASSEMBLY
MSE RETAINED FILL AT BRIDGE APPROACH

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-FND-004

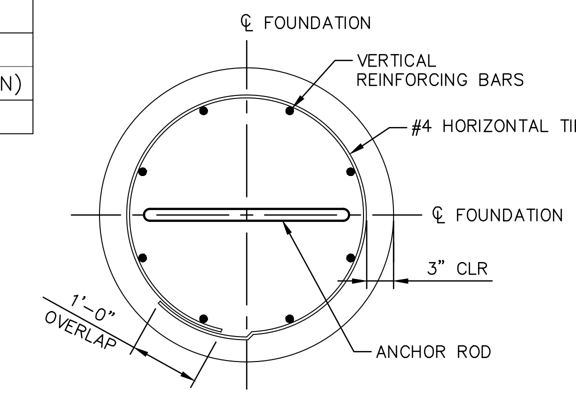
SHEET 413 OF 464



1 PLAN
NOT TO SCALE

REINFORCING SCHEDULE

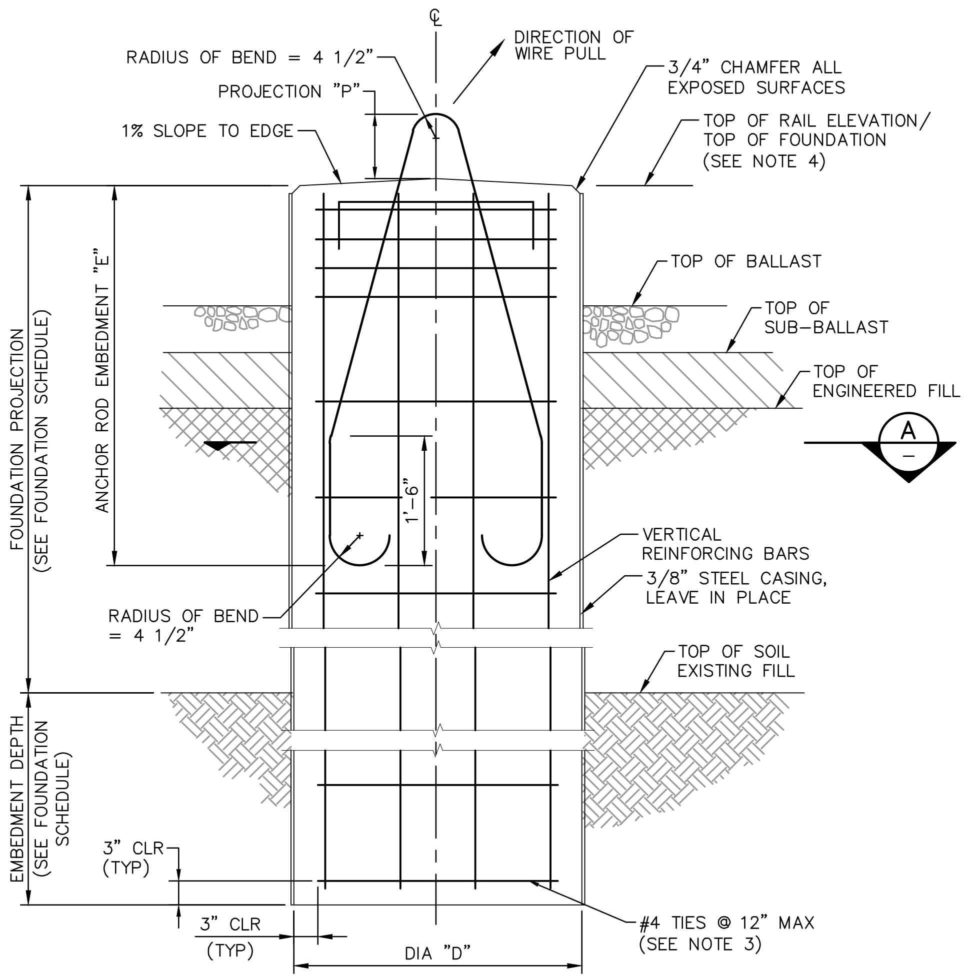
TYPE	D DIA (IN)	REINFORCEMENT SIZE	REINFORCEMENT QUANTITY	ANCHOR RODS DIA (IN)	ANCHOR RODS E (IN)	ANCHOR RODS P (IN)
FA3	36	#8	8	1.50	48	8



A SECTION
NOT TO SCALE

NOTES:

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
3. NO. 4 SPIRALS AT 4 INCHES (MAXIMUM) PITCH MAY BE SUBSTITUTED FOR REBAR TIES.
4. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, FOUNDATION TYPES, OFFSET AND EFFECTIVE DEPTH.



2 ELEVATION (FA3)
NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
GUY FOUNDATION ASSEMBLY
MSE RETAINED FILL AT BRIDGE APPROACH

DISCIPLINE: OCS

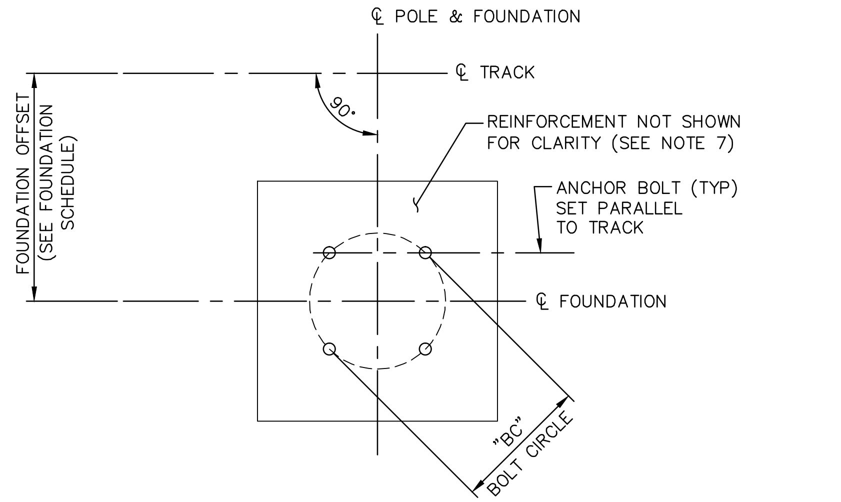
SHEET NAME: 00-SYS-OCS-FND-005

BOLT AND PLATE SCHEDULE

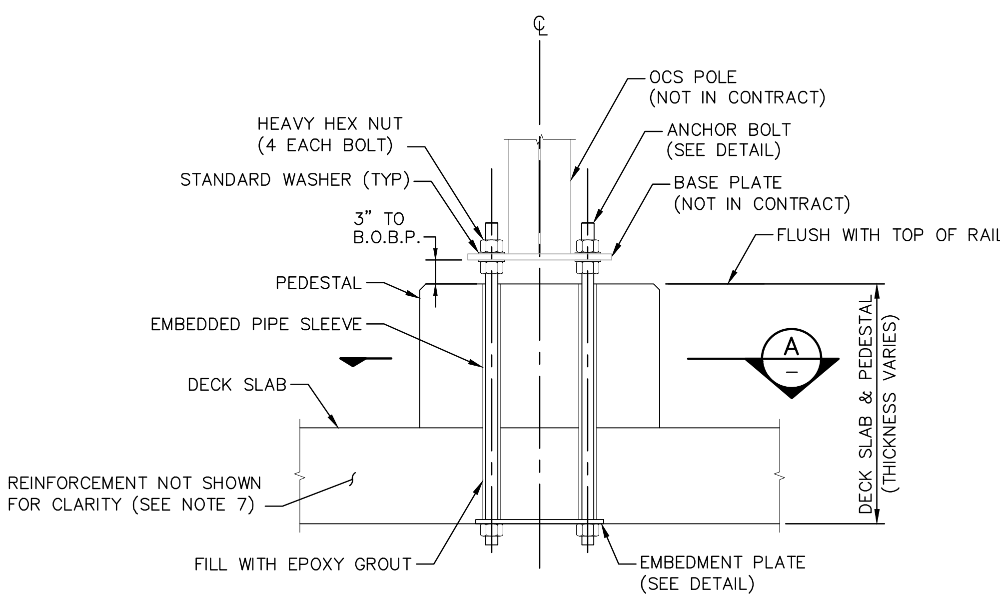
TYPE	ANCHOR BOLT DIMENSIONS				EMBEDMENT PLATE DIMENSIONS				
	BC (IN)	DIA (IN)	L (IN)	P (IN)	A (IN)	BC (IN)	Tb (IN)	d (IN)	D (IN)
PA1A	16	1.25	36	10	16	16	1.50	1.625	7
PA1B	18	1.50	36	10	18	18	1.75	1.875	7
PA1C	22	2.00	36	10	22	22	2.25	2.375	11
PA1D	15	1.25	36	10	15	15	1.50	1.625	7
PA1E	19	1.50	36	10	19	19	1.75	1.875	7
PA1F	23	1.75	36	10	23	23	2.50	2.125	11
PA1G	23	2.25	36	12	23	23	2.50	2.625	11

NOTES:

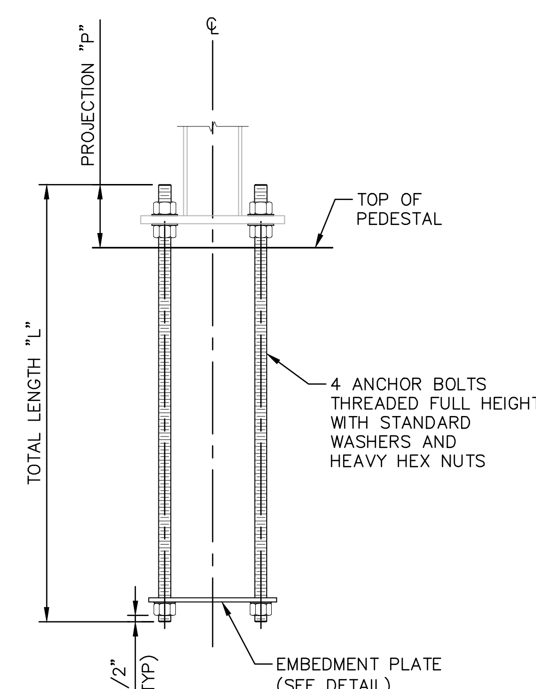
1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND THE SPECIFICATIONS.
2. PROVIDE BOLT PATTERN TEMPLATE FOR ANCHOR BOLT INSTALLATION.
3. ADJUST REINFORCEMENT CAGE TO AVOID CONFLICT WITH ANCHOR BOLTS AND EMBEDMENT PLATE.
4. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, FOUNDATION TYPES, AND OFFSETS.
5. EXOTHERMICALLY WELD 4/0 GROUND WIRE TO REBAR CAGE, AND CLAMP TO ANCHOR BOLTS USING A BURNDY GAR GROUND CONNECTOR, OR APPROVED EQUAL.
6. POLE TO GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS. SEE BRIDGE GROUNDING PLANS FOR DETAILS.
7. SEE BRIDGE STRUCTURAL DRAWINGS FOR REINFORCEMENT DETAILS.



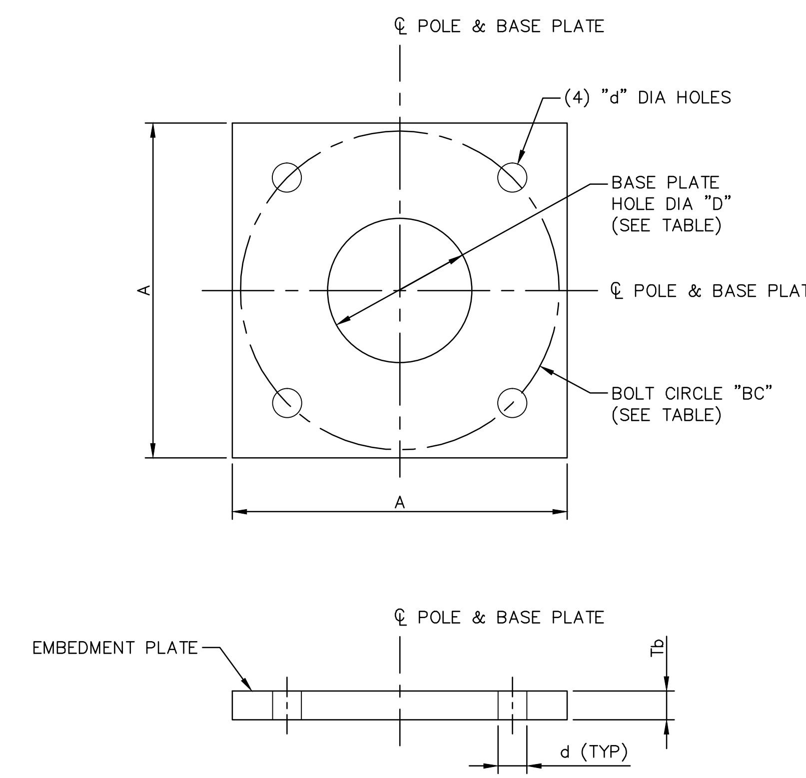
A SECTION
NOT TO SCALE



1 ELEVATION
NOT TO SCALE



2 ANCHOR BOLT DETAIL
NOT TO SCALE



3 EMBEDMENT PLATE DETAIL
NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
POLE BRIDGE ANCHORAGE ASSEMBLY

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-FND-006

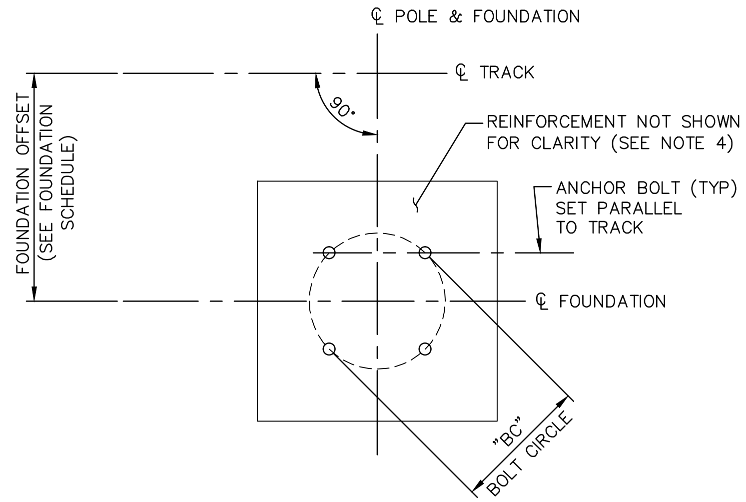
SHEET 415 OF 464

BOLT AND PLATE SCHEDULE

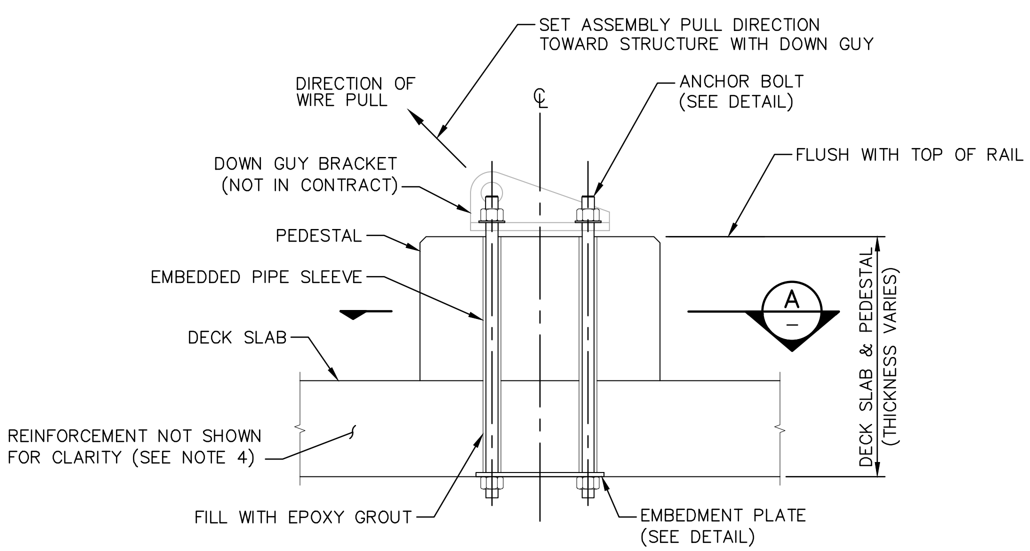
TYPE	ANCHOR BOLT DIMENSIONS				EMBEDMENT PLATE DIMENSIONS			
	BC (IN)	DIA (IN)	L (IN)	P (IN)	A (IN)	BC (IN)	Tb (IN)	d (IN)
P1A	16	1.50	36	8	16	16	1.00	1.875

NOTES:

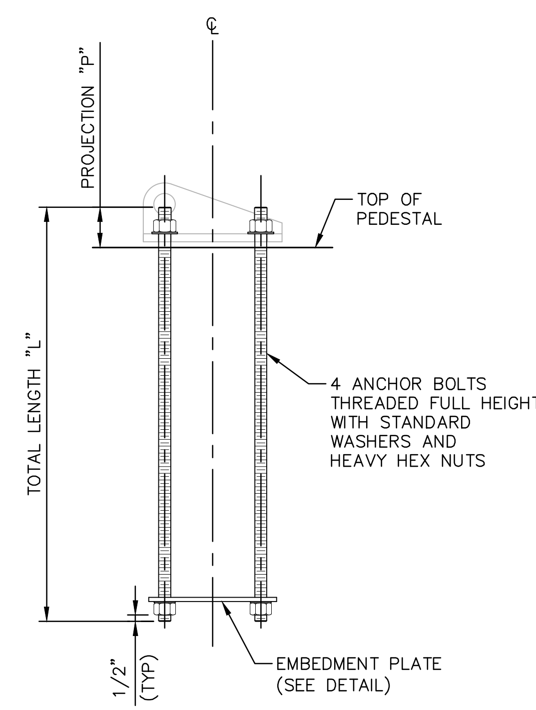
1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS.
2. SEE FOUNDATION SCHEDULE FOR REFERENCE TOP OF FOUNDATION, FOUNDATION TYPES, AND OFFSET.
3. ADJUST REINFORCEMENT CAGE TO AVOID CONFLICT WITH ANCHOR BOLTS AND EMBEDMENT PLATE.
4. SEE BRIDGE STRUCTURAL DRAWINGS FOR REINFORCEMENT DETAILS.



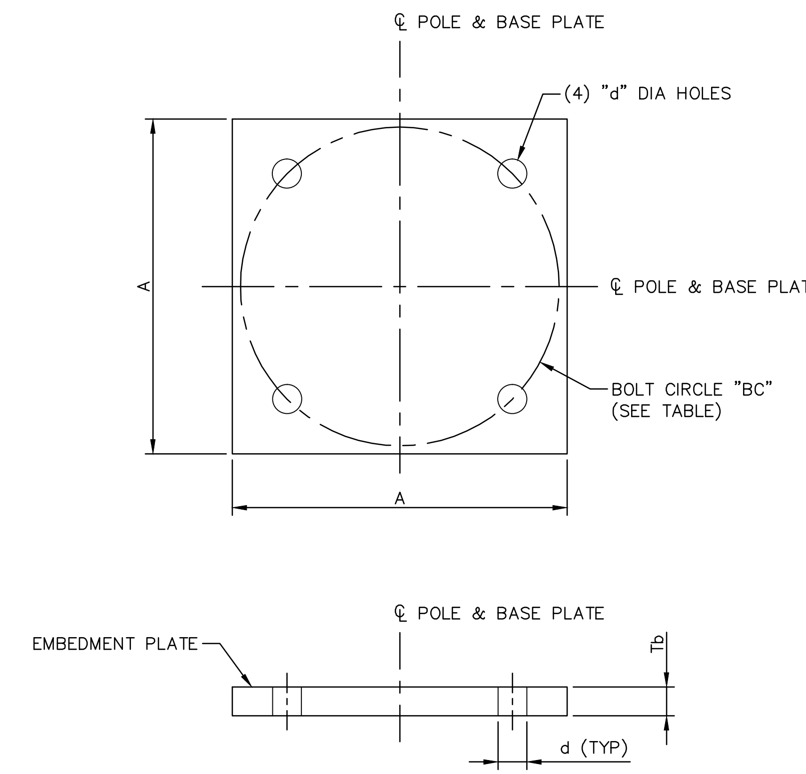
A SECTION
NOT TO SCALE



1 ELEVATION
NOT TO SCALE



2 ANCHOR BOLT DETAIL
NOT TO SCALE



3 EMBEDMENT PLATE DETAIL
NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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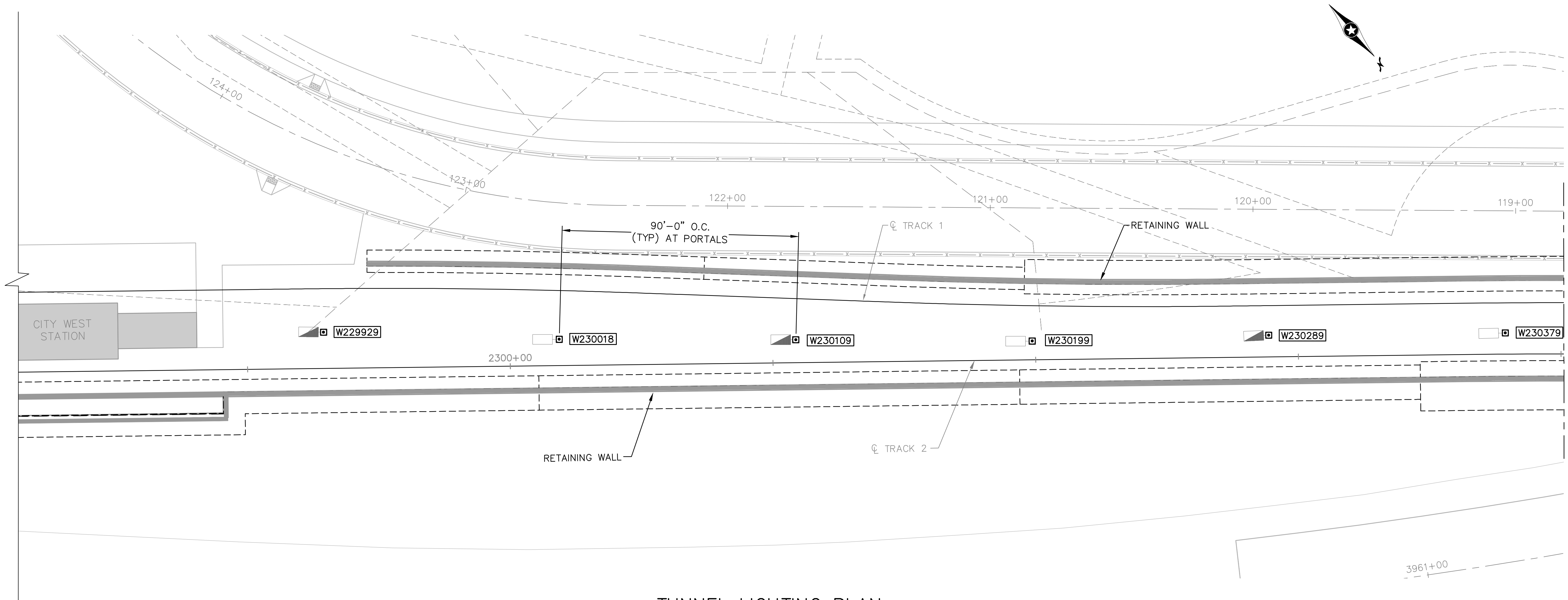
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
OVERHEAD CONTACT SYSTEM
GUY BRIDGE ANCHORAGE ASSEMBLY

DISCIPLINE: OCS

SHEET NAME: 00-SYS-OCS-FND-007



TUNNEL LIGHTING PLAN

0 10 20 40
HORIZONTAL SCALE IN FEET

STRUCTURE NO.	STATION	OFFSET (FT–IN)	DIRECTION	REF TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W229929	2299+29	13.77	L	2	136383.2953	492678.7876	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W230018	2300+19	10	L	2	136444.5107	492613.1869	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W230109	2301+09	8.72	L	2	136504.0677	492545.6448	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W230199	2301+99	7.11	L	2	136563.8505	492478.3746	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W230289	2302+89	8.23	L	2	136621.5954	492409.2693	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W230379	2303+79	8.07	L	2	136680.3632	492341.0472	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

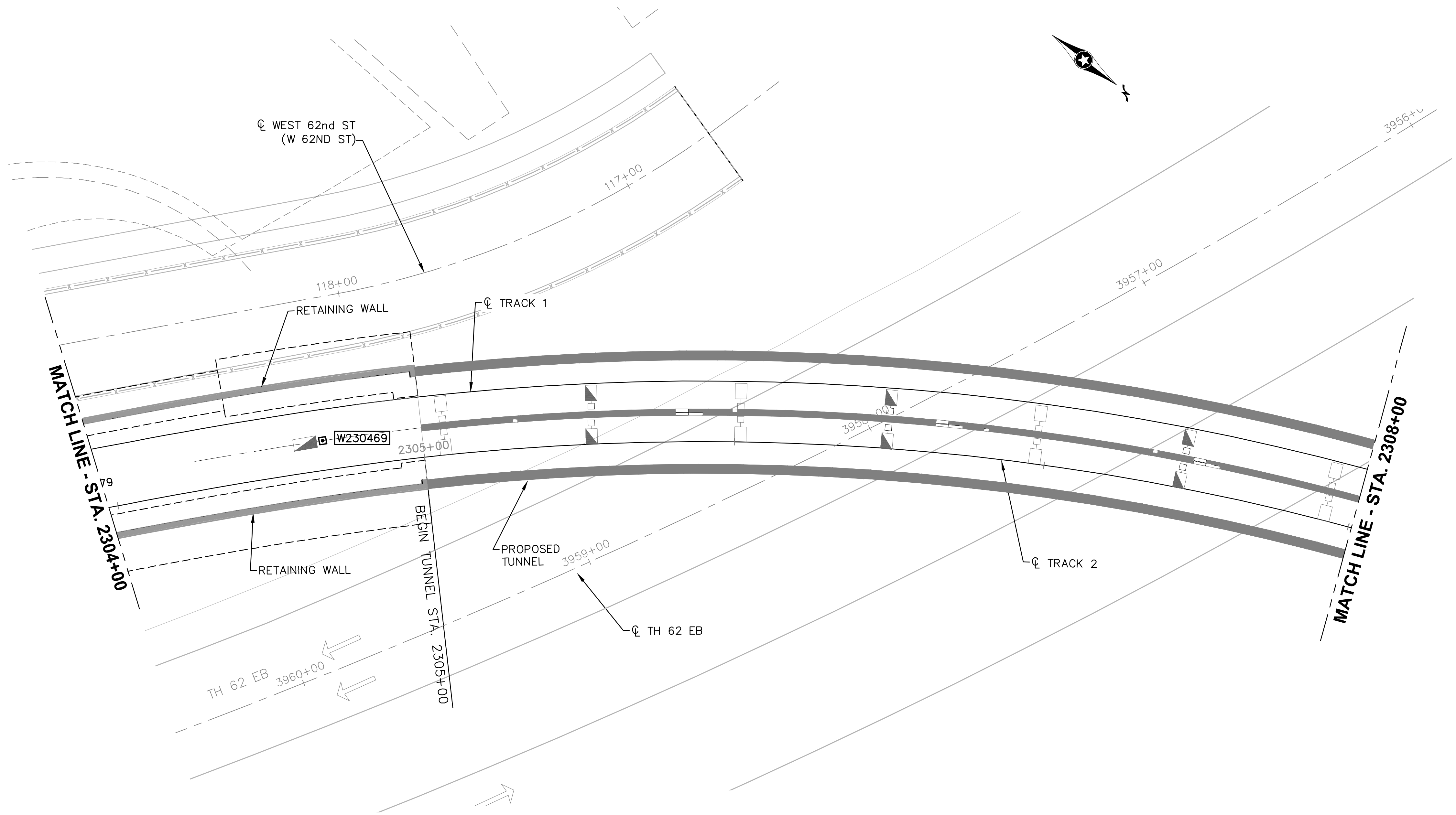
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING PLAN AND SCHEDULE
TH62 SHEET 1

DISCIPLINE: STRUCTURAL

SHEET NAME: W2-SYS-STU-PLN-001

SHEET 417 OF 464



TUNNEL LIGHTING PLAN

0 10 20 40
HORIZONTAL SCALE IN FEET

STRUCTURE NO.	STATION	OFFSET (FT–IN)	DIRECTION	REF TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W230469	2304+69	9.49	L	2	136739.6007	492273.3912	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

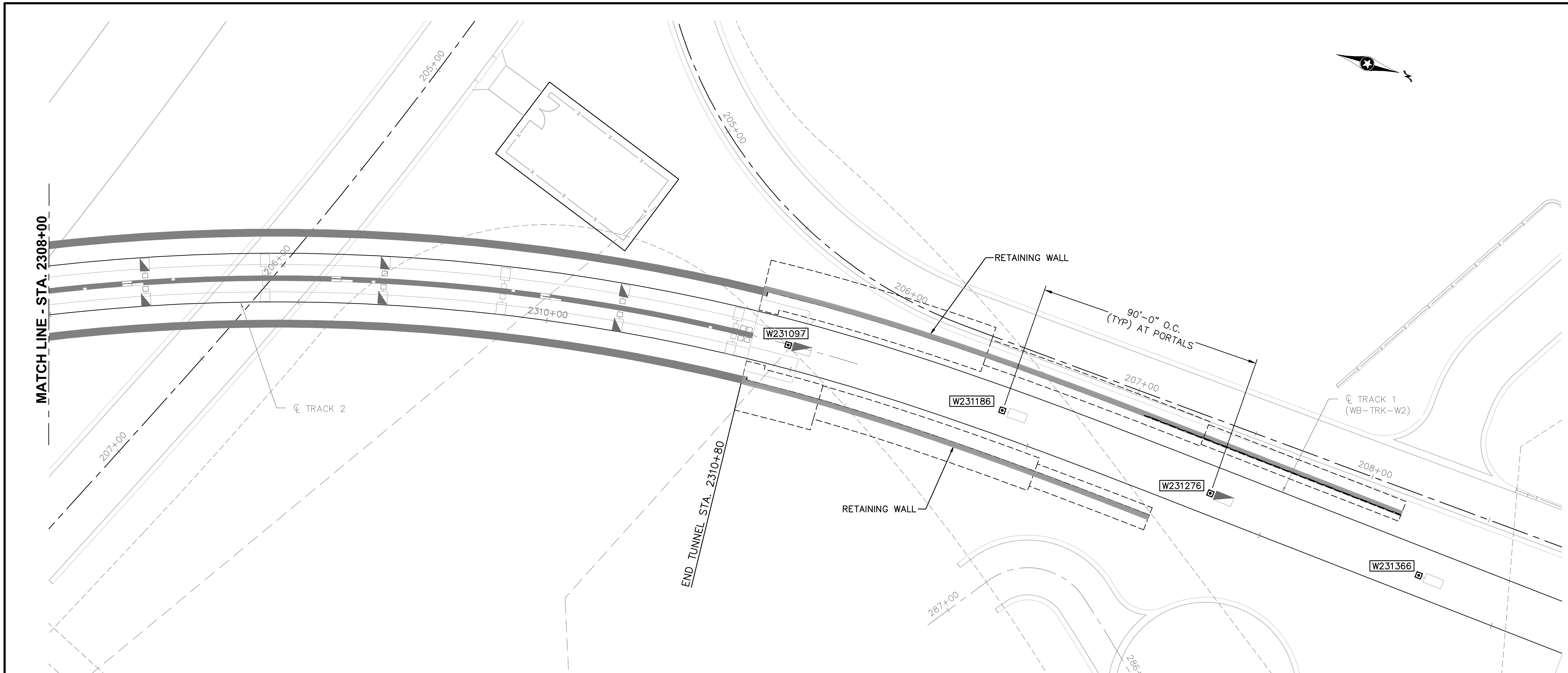
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING PLAN AND SCHEDULE
TH62 SHEET 2

DISCIPLINE: STRUCTURAL

SHEET NAME: W2-SYS-STU-PLN-002

SHEET 418 OF 464



TUNNEL LIGHTING PLAN

0 10 20 40
HORIZONTAL
SCALE IN FEET

STRUCTURE NO.	STATION	OFFSET (FT–IN)	DIRECTION	REF TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER–SIZE	COMMENTS
W231097	2310+97	9.28	L	2	137305.5594	492021.5559	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W231186	2311+86	10	L	2	137395.5294	492022.6859	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W231276	2312+76	8.5	L	2	137485.1187	492031.2467	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–
W231366	2313+66	8.25	L	2	137574.7678	492039.4398	LIGHT POLE FND	3FT ABOVE GRADE	–	–	W2–SYS–STU–DTL–001	–	–

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING PLAN AND SCHEDULE
TH62 SHEET 3

DISCIPLINE: STRUCTURAL

SHEET NAME: W2-SYS-STU-PLN-003

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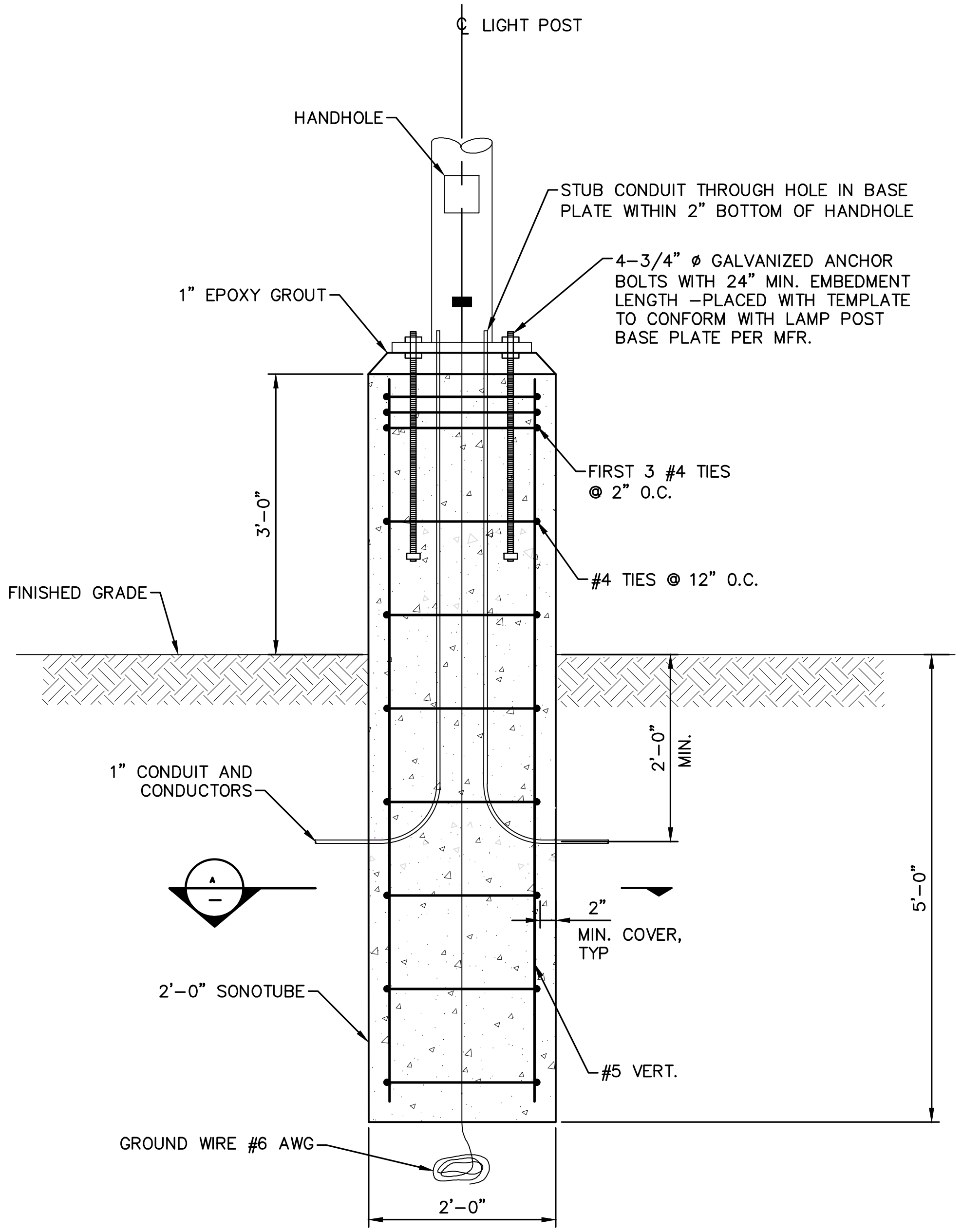
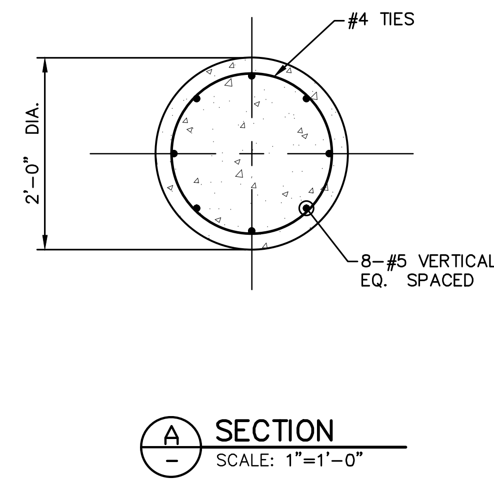


POLE FOUNDATION LIGHTING FIXTURE

SCALE: 1" = 1'-0"



SECTION

SCALE: 1"=1'-0"

NOTES:

1. SEE SPECIFICATIONS SECTION 26 05 43 FOR MORE DETAILED CONCRETE REQUIREMENTS.
2. SEE DRAWINGS W2-SYS-STU-PLN-001 THRU. W2-SYS-STU-PLN-003 FOR POLE LOCATIONS. THIS POLE FOUNDATION IS FOR LIGHTING FIXTURE TYPES B AND BE ONLY.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

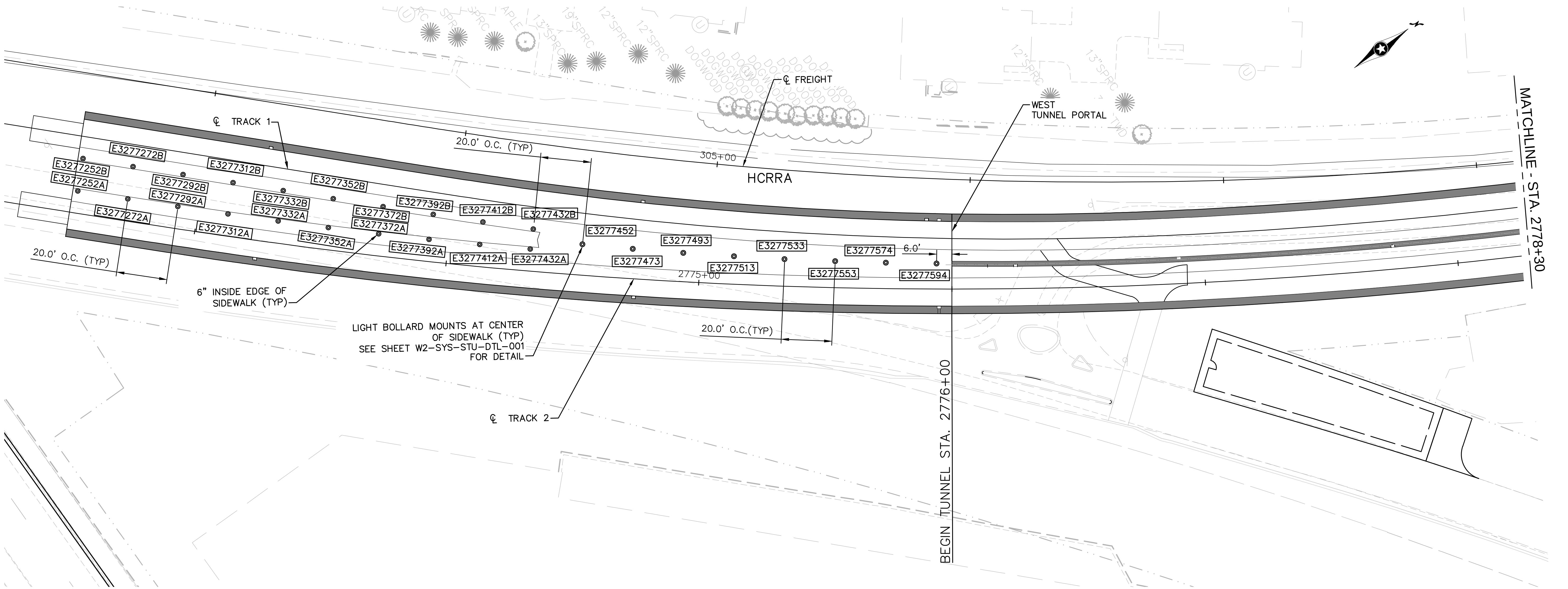
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING POLE FOUNDATION DETAILS

DISCIPLINE: STRUCTURAL

SHEET NAME: W2-SYS-STU-DTL-001

SHEET 420 OF 464



TUNNEL LIGHTING PLAN

0 10 20 40
SCALE HORIZONTAL IN FEET

Jan. 13 2016 10:36 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\STRUCTURAL\E3-SYS-STU-PLN.dwg By: orozcog

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

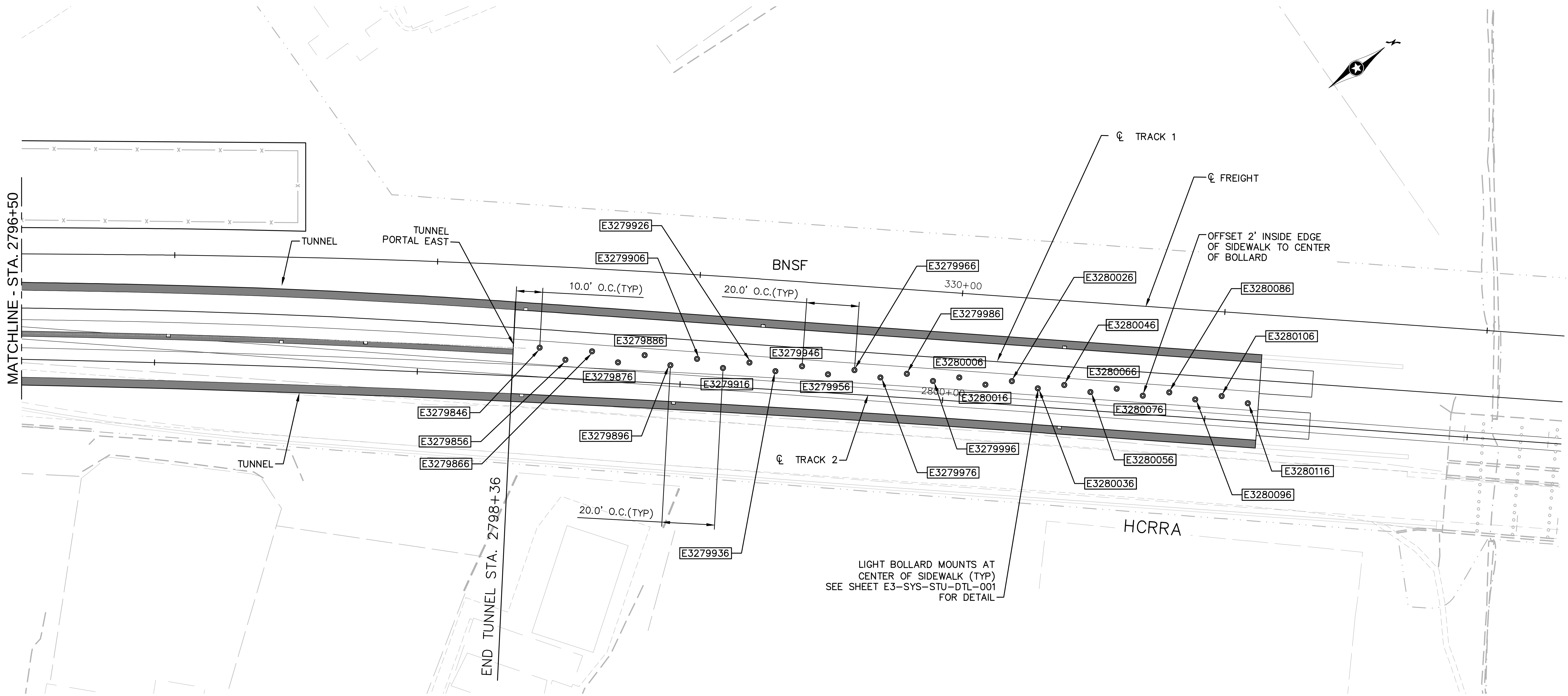
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING PLAN
KENILWORTH TUNNEL SHEET 1

DISCIPLINE: STRUCTURAL

SHEET NAME: E3-SYS-STU-PLN-001

SHEET 421 OF 464



TUNNEL LIGHTING PLAN

0 10 20 40
HORIZONTAL SCALE IN FEET

Jan. 13 2016 10:36 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\STRUCTURAL\E3-SYS-STU-PLN.dwg By: orozcog

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
LIGHTING PLAN
KENILWORTH TUNNEL SHEET 2

DISCIPLINE: STRUCTURAL

SHEET NAME: E3-SYS-STU-PLN-002

SHEET 422 OF 464

STRUCTURE NO.	STATION	OFFSET (FT–IN)	DIRECTION	REF TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	REFERENCE DRAWING NUMBER	COMMENTS
E3277252A	2772+52	8.70	L	2	157473.28	515641.90	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277252B	2772+52	21.66	L	2	157482.41	515632.71	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277272A	2772+72	8.70	L	2	157487.51	515655.95	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277272B	2772+72	21.61	L	2	157496.61	515646.79	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277292A	2772+92	8.71	L	2	157501.80	515669.93	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277292B	2772+92	21.48	L	2	157510.81	515660.88	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277312A	2773+12	8.73	L	2	157516.16	515683.82	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277312B	2773+12	21.25	L	2	157525.01	515674.96	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277332A	2773+32	8.67	L	2	157530.61	515697.61	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277332B	2773+32	20.80	L	2	157539.20	515689.05	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277352A	2773+52	8.72	L	2	157545.17	515711.31	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277352B	2773+52	20.32	L	2	157553.40	515703.13	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277372A	2773+72	8.71	L	2	157559.88	515724.87	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277372B	2773+72	19.57	L	2	157567.58	515717.18	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277392A	2773+92	8.70	L	2	157574.73	515738.25	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277392B	2773+92	18.67	L	2	157581.83	515731.23	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277412A	2774+12	8.75	L	2	157589.84	515751.53	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277412B	2774+12	17.69	L	2	157596.05	515745.09	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277432A	2774+32	8.72	L	2	157604.95	515764.63	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277432B	2774+32	16.66	L	2	157610.52	515758.94	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277452A	2774+52	12.21	L	2	157622.74	515775.12	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277473	2774+73	11.78	L	2	157637.82	515788.19	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277493	2774+93	11.39	L	2	157653.09	515801.10	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277513	2775+13	11.03	L	2	157668.57	515813.85	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277533	2775+33	11.72	L	2	157684.15	515826.38	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277553	2775+53	10.44	L	2	157699.89	515838.72	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277574	2775+74	10.21	L	2	157715.78	515850.87	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3277594	2775+94	10.01	L	2	157731.82	515862.82	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279846	2798+46	11.09	L	2	159668.04	516988.41	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279856	2798+56	6.99	L	2	159673.33	516997.83	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279866	2798+66	10.66	L	2	159683.43	517001.18	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279876	2798+76	7.02	L	2	159688.99	517010.27	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279886	2798+86	10.27	L	2	159698.82	517013.96	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279896	2798+96	7.00	L	2	159704.59	517022.79	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279906	2799+06	9.93	L	2	159714.20	517026.75	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279916	2799+16	7.01	L	2	159720.18	517035.33	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279926	2799+26	9.64	L	2	159729.57	517039.54	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279936	2799+36	6.97	L	2	159735.70	517047.94	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279946	2799+46	9.41	L	2	159744.95	517052.32	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279956	2799+56	6.99	L	2	159751.22	517060.55	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279966	2799+66	9.23	L	2	159760.33	517065.11	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279976	2799+76	7.01	L	2	159766.71	517073.20	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279986	2799+86	9.10	L	2	159775.71	517077.89	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3279996	2799+96	7.01	L	2	159782.15	517085.91	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280006	2800+06	9.02	L	2	159791.09	517090.68	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280016	2800+16	7.0	L	2	159797.56	517098.66	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280026	2800+26	9.0	L	2	159806.47	517103.46	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280036	2800+36	7.0	L	2	159812.95	517111.43	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280046	2800+46	9.0	L	2	159821.85	517116.25	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280056	2800+56	7.0	L	2	159828.34	517124.20	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280066	2800+66	9.0	L	2	159837.23	517129.04	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280076	2800+76	7.0	L	2	159843.73	517136.99	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280086	2800+86	9.0	L	2	159852.61	517141.82	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280096	2800+96	7.0	L	2	159859.11	517149.77	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280106	2801+06	9.0	L	2	159867.99	517154.61	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–
E3280116	2801+16	7.0	L	2	159874.48	517162.57	BOLLARD MOUNT	TOC	E3–SYS–STU–DTL–001	–

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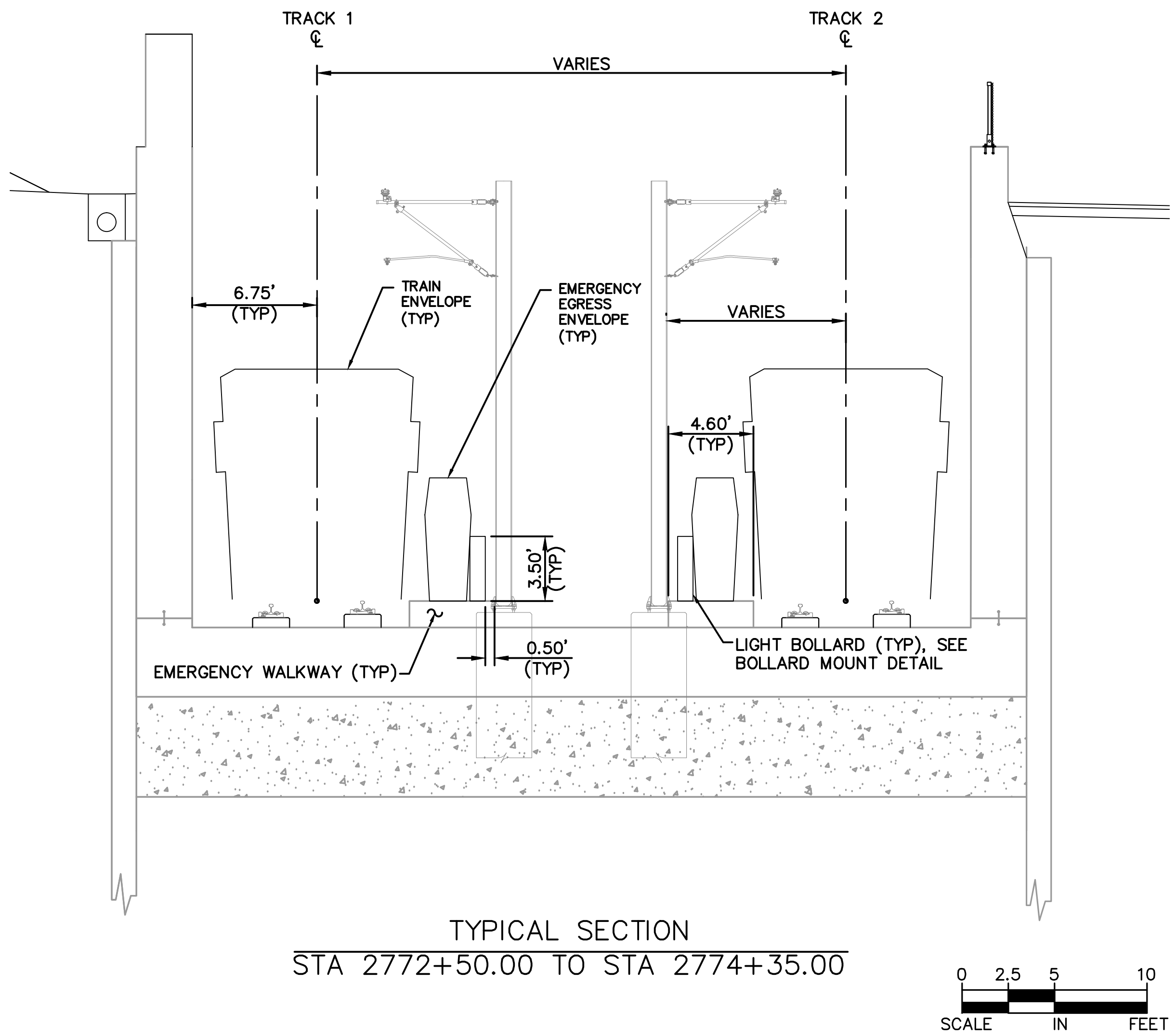
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

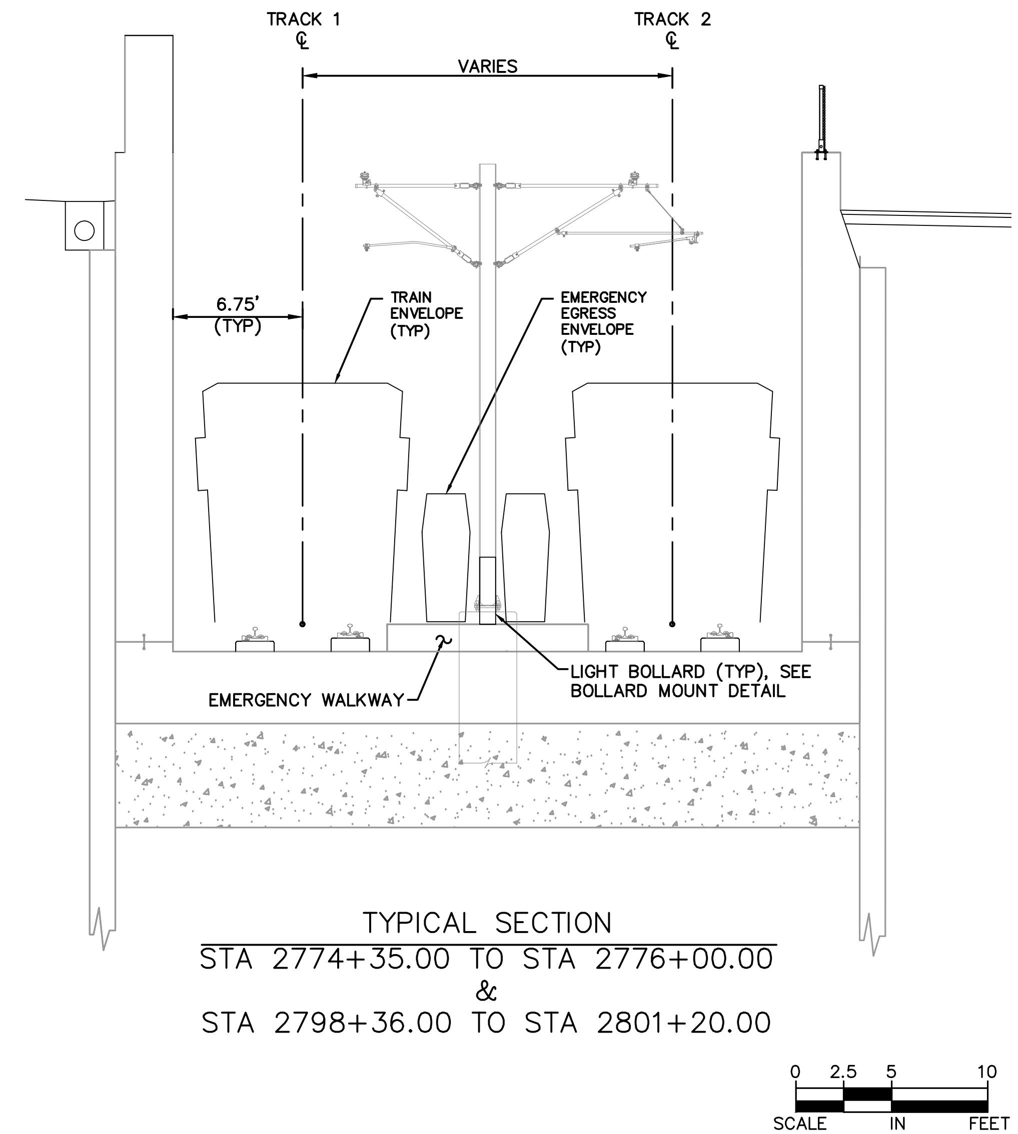
CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
KENILWORTH LIGHTING SCHEDULE

DISCIPLINE: STRUCTURAL

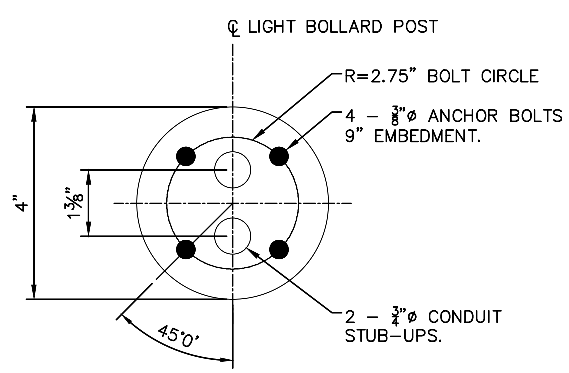
SHEET NAME: E3-SYS-STU-SCH-001



TYPICAL SECTION
STA 2772+50.00 TO STA 2774+35.00



TYPICAL SECTION
STA 2774+35.00 TO STA 2776+00.00
&
STA 2798+36.00 TO STA 2801+20.00



BOLLARD MOUNT DETAIL
SCALE: 6" = 1'-0"

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METROPOLITAN COUNCIL

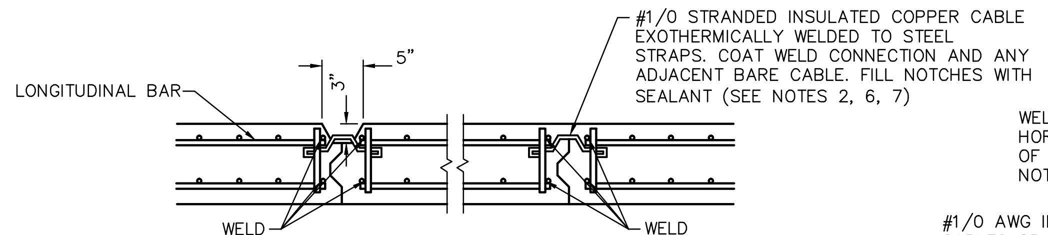
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
SYSTEMWIDE ELECTRICAL
BOLLARD AND MOUNT DETAIL

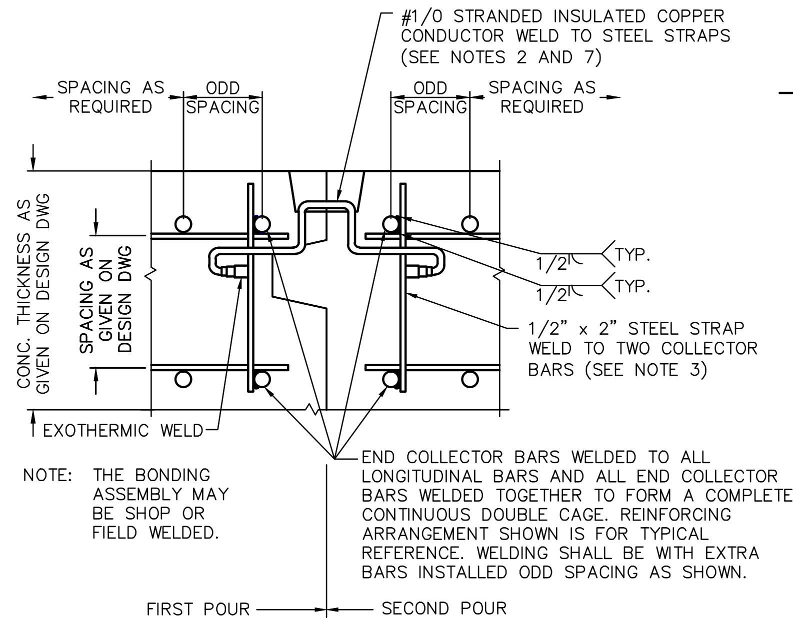
DISCIPLINE: STRUCTURAL

SHEET NAME: E3-SYS-STU-DTL-001

SHEET 424 OF 464

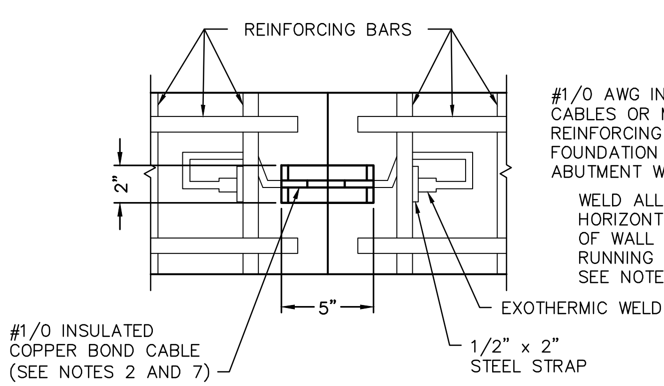


1 BOND CABLE INSTALLATION ACROSS EXPANSION/CONTRACTION TYPE JOINTS

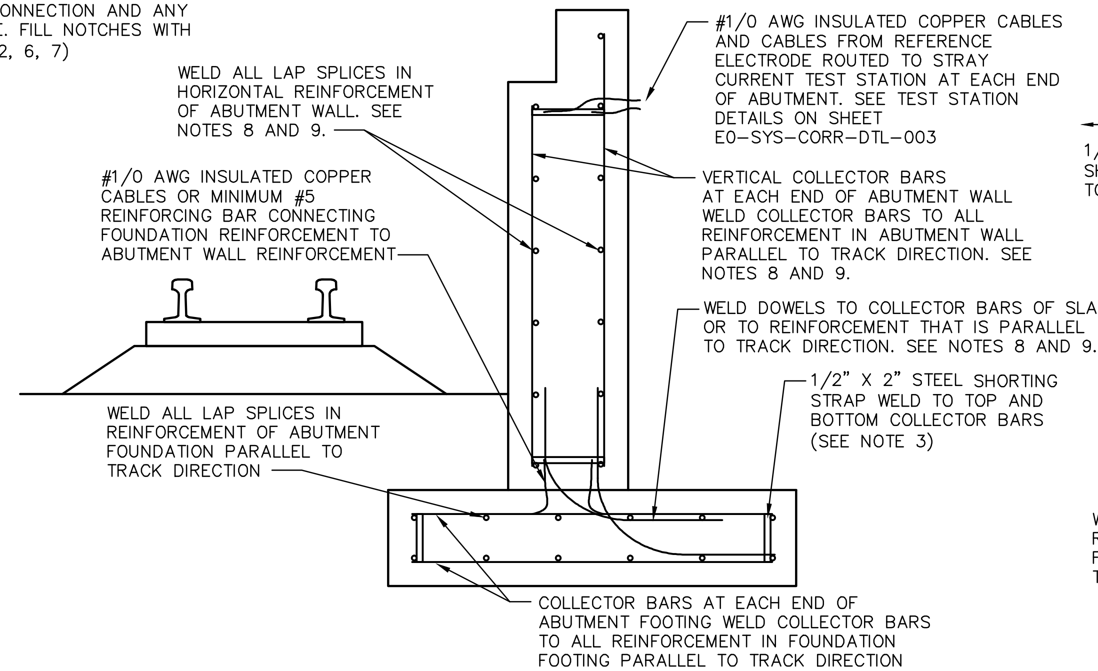


NOTE: THE BONDING ASSEMBLY MAY BE SHOP OR FIELD WELDED.

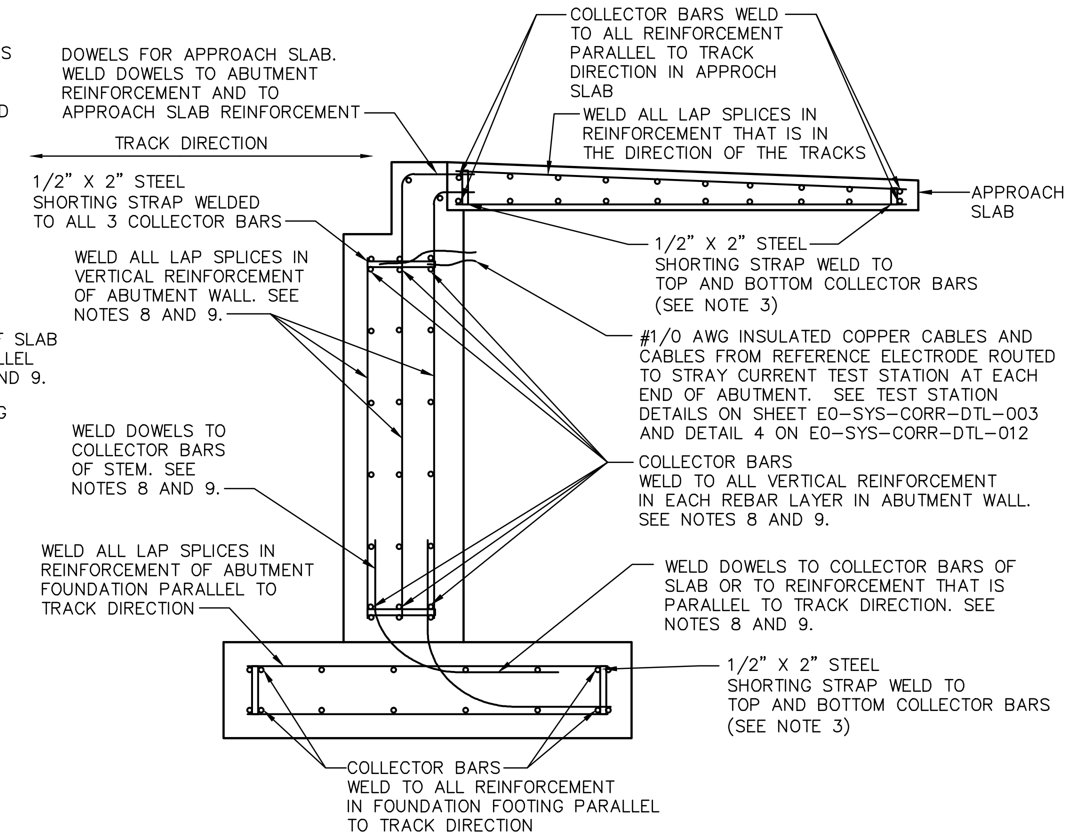
2 CLOSE-UP VIEW OF BOND CABLE INSTALLATION ACROSS EXPANSION/CONTRACTION TYPE JOINTS



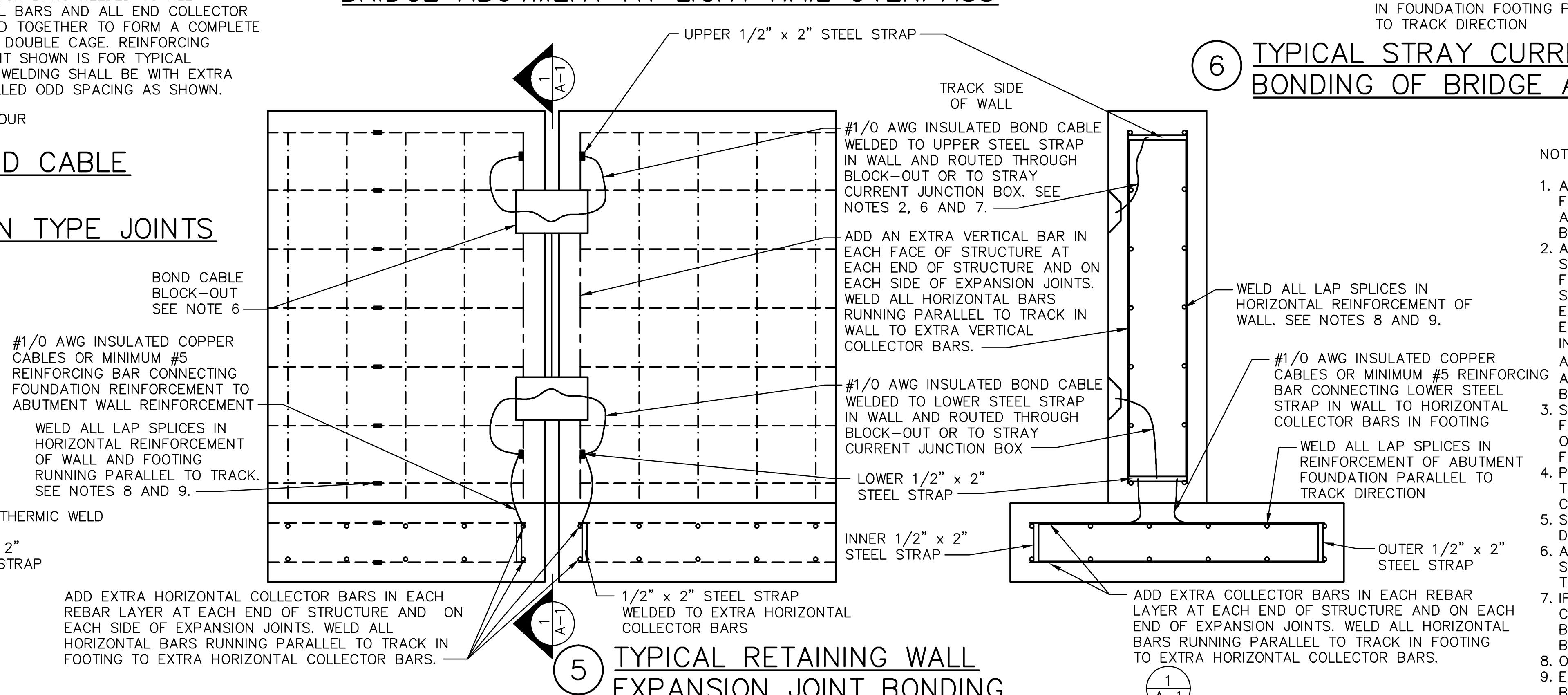
3 PLAN VIEW OF BOND CABLE BLOCK-OUT



4 TYPICAL STRAY CURRENT BONDING OF ROADWAY BRIDGE ABUTMENT AT LIGHT RAIL OVERPASS



6 TYPICAL STRAY CURRENT BONDING OF BRIDGE ABUTMENTS



5 TYPICAL RETAINING WALL EXPANSION JOINT BONDING

NOTES:

1. ALL LONGITUDINAL REINFORCING BARS MUST BE FULLY WELDED, COLLECTOR BARS ARE TO BE WELDED AT THE JOINTS TO ELECTRICALLY TIE LONGITUDINAL BARS TOGETHER.
2. AT IDENTIFIED EXPANSION JOINTS, ENDS OF EACH STRUCTURE AND AT INTERVALS NOT EXCEEDING 500 FT. TEST STATIONS SHALL BE INSTALLED WHERE SHOWN ON THE CONTRACT DRAWINGS. SEE SHEET E0-SYS-CORR-DTL-003 AND DETAIL 4 ON E0-SYS-CORR-DTL-012 FOR TEST STATION DETAILS. INSTALL BOX 2' TO 4' ABOVE FINISHED GRADE. AT ALL OTHER EXPANSION JOINT LOCATIONS THE #1/0 AWG BONDING CABLES SHALL BE RUN THROUGH THE BOND CABLE BLOCK-OUTS.
3. STRAP SHALL BE OF SUFFICIENT LENGTH TO FACILITATE WELDING TO TOP AND BOTTOM LAYERS OR INNER AND OUTER FACES OF REBAR CAGE. FIELD FIT STRAPS TO NOT INTERFERE WITH WATERSTOPS.
4. POSITION EXOTHERMIC WELDS ALONG STEEL STRAPS TO MAINTAIN MINIMUM 2-INCHES OF CONCRETE COVER.
5. SEE DETAILS 1 AND 3 ON SHEET E0-SYS-CORR-DTL-002 FOR REFERENCE ELECTRODE DETAILS.
6. ALL BONDING NOTCHES IN THE INVERTS AND WALLS SHALL BE ACCESSIBLE FOR FUTURE MONITORING AND TESTING AFTER CONSTRUCTION IS COMPLETE.
7. IF THERE IS NOT ROOM ON THE WALL FOR TWO BOND CABLE BLOCK-OUTS, THEN TWO BOND CABLE SHALL BE INSTALLED THROUGH A SINGLE BOND CABLE BLOCK-OUT.
8. ONLY BLACK REBAR IS TO BE WELDED.
9. EPOXY COATED REBAR SHALL BE ISOLATED FROM BLACK REBAR

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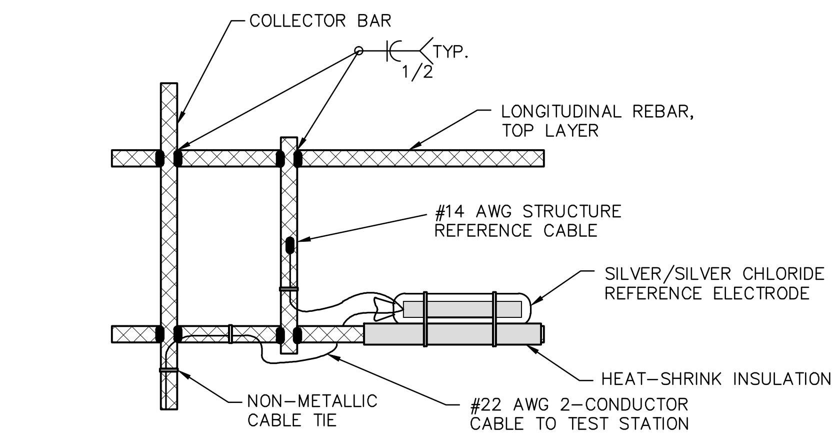
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 1

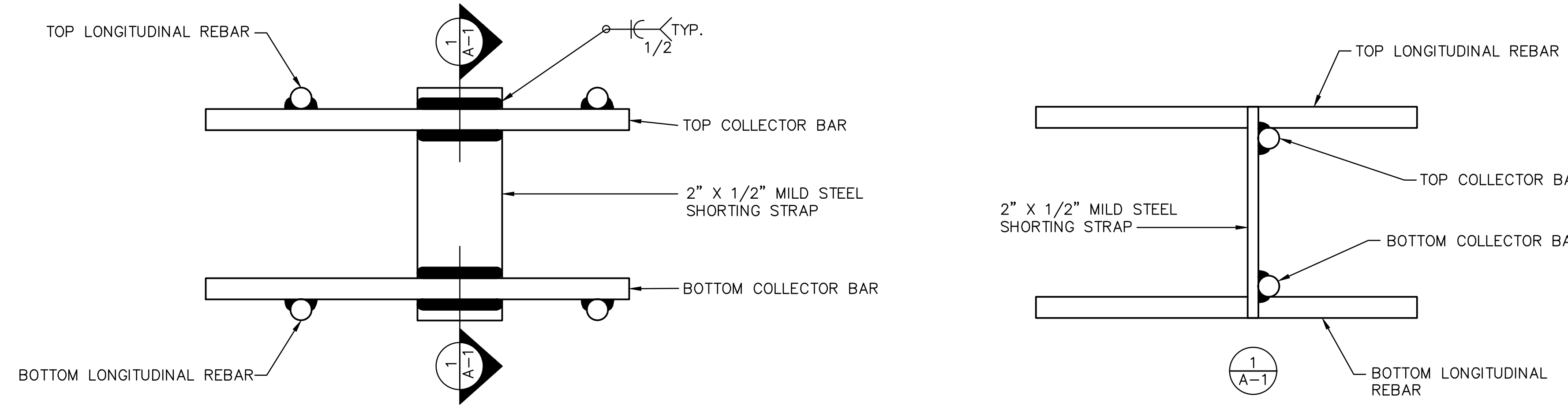
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-001

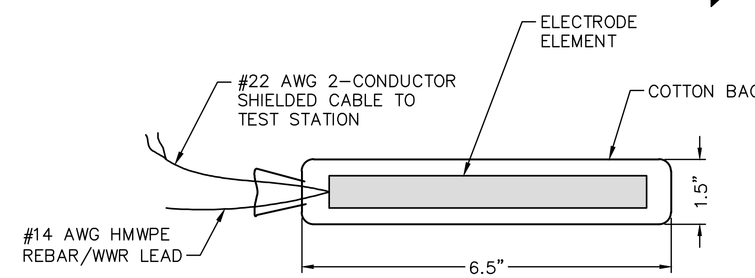


NOTE:
ALL EXOTHERMIC WELDS SHALL BE CLEANED AND COATED WITH AN APPROVED 2-PART EPOXY COATING.

1 REINFORCED CONCRETE REFERENCE ELECTRODE MOUNTING DETAIL



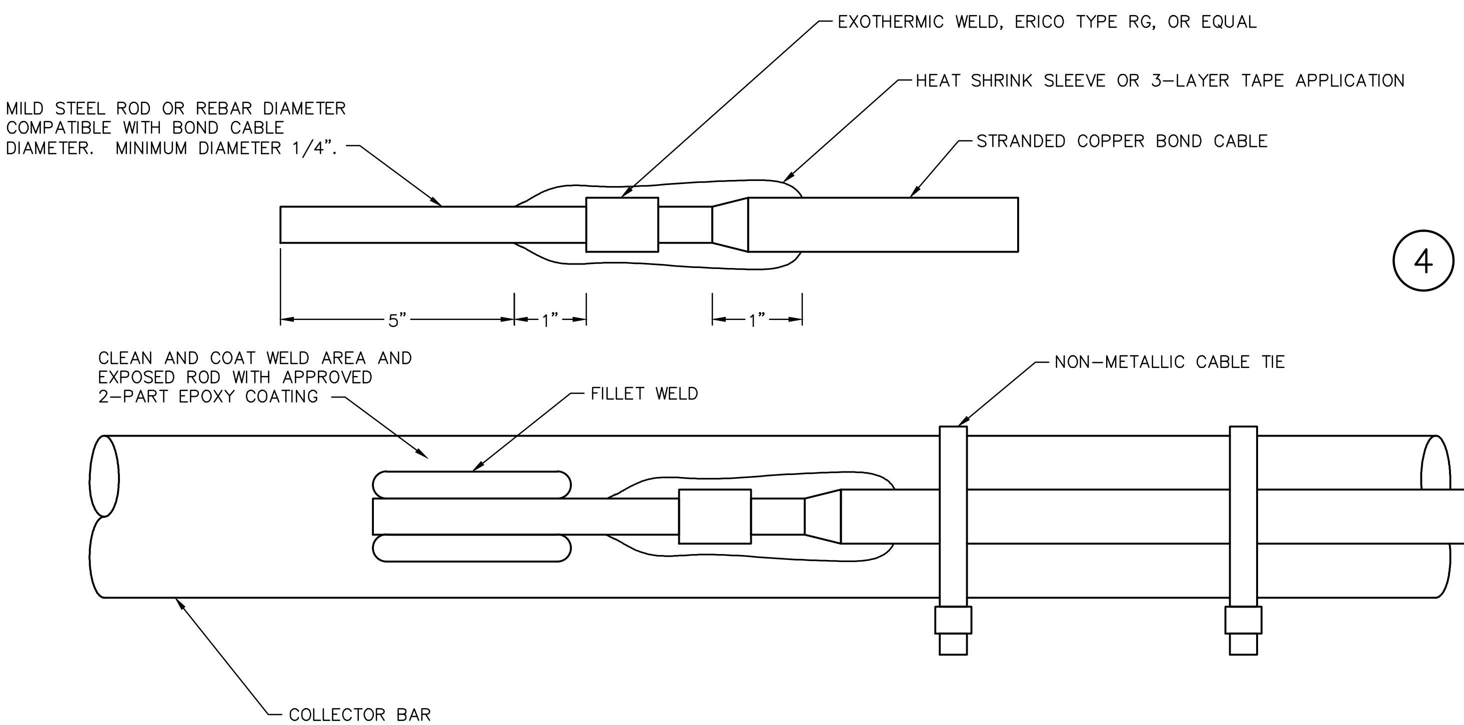
2 REBAR SHORTING STRAP



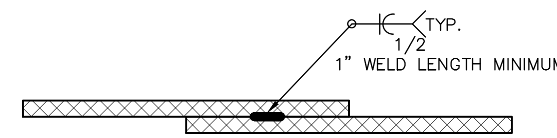
3 SILVER/SILVER CHLORIDE REFERENCE ELECTRODE

NOTES:

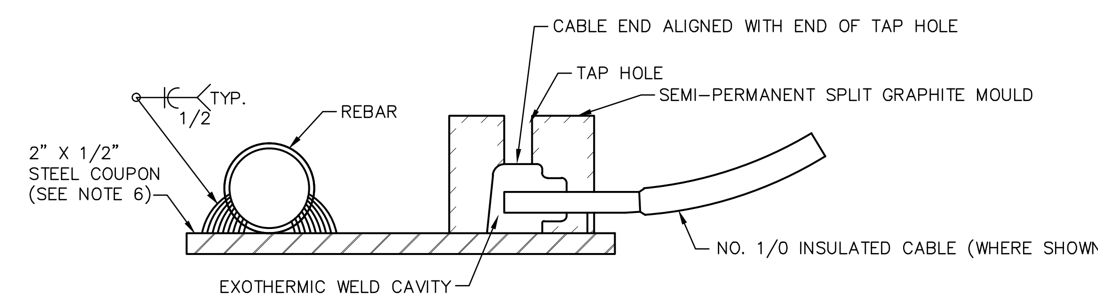
1. THE COLLECTOR BAR FOR REINFORCED CONCRETE STRUCTURES SHALL BE THE GREATER OF THE SIZE OF THE LONGITUDINAL REINFORCEMENT OR A #5 REINFORCING BAR. THE COLLECTOR BAR SHALL BE WELDED TO EACH LONGITUDINAL REINFORCEMENT ON EACH SIDE OF THE COLLECTOR BAR. A COLLECTOR BAR SHALL BE INSTALLED FOR EACH LAYER/FACE OF INSTALLED REBAR.
2. COLLECTOR BARS ARE REQUIRED FOR EACH COURSE OF LONGITUDINAL REINFORCEMENT. ONLY TWO COURSES ARE SHOWN IN DETAILS AS AN EXAMPLE.
3. STEEL SHORTING STRAPS, MINIMUM 2" WIDE AND 1/2" THICK, SHALL BE WELDED BETWEEN THE COLLECTOR BARS TO ENSURE ELECTRICAL CONTINUITY. A MINIMUM OF TWO SHORTING STRAPS ARE REQUIRED, ONE AT EACH END OF THE COLLECTOR BARS.
4. A MINIMUM OF 2 JUMPER CABLES SHALL BE EXOTHERMICALLY WELDED TO COLLECTOR BARS OR SHORTING STRAPS ON EACH SIDE OF ANY PHYSICAL/ELECTRICAL DISCONTINUITY IN THE LONGITUDINAL REINFORCEMENT, SUCH AS AT EXPANSION JOINTS. SUFFICIENT SLACK SHALL BE PROVIDED IN THE JUMPER CABLES TO PREVENT STRESS IN THE CABLE DUE TO JOINT MOVEMENT.
5. ALL EXOTHERMIC WELD CONNECTIONS SHALL BE CLEANED OF ALL SLAG AND WELD RESIDUE WITH A STIFF WIRE BRUSH THEN COATED WITH AN APPROVED EPOXY. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4.
6. IN-LIEU OF MAKING DIRECT CABLE-TO-REINFORCING STEEL/PILE ELECTRICAL CONNECTIONS, PRE-MANUFACTURED TEST/BOND WIRE ASSEMBLIES AS SHOWN IN DETAIL 6 CAN BE USED TO ATTACH TEST OR BOND WIRES TO REINFORCING STEEL OR PILES. AFTER THE CABLE IS THERMITE WELDED TO THE COUPON THE COUPON IS TO BE WELDED ONTO THE APPROPRIATE STRUCTURE AT THE LOCATION SHOWN ON THE DRAWINGS.



5 CABLE ATTACHMENT TO REINFORCING



4 REINFORCED CONCRETE LONGITUDINAL REBAR LAP SPLICE WELD



6 ALTERNATE METHOD TO ATTACH WIRES TO REINFORCING STEEL/PILES BY PRE-ATTACHING WIRES TO STEEL COUPONS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

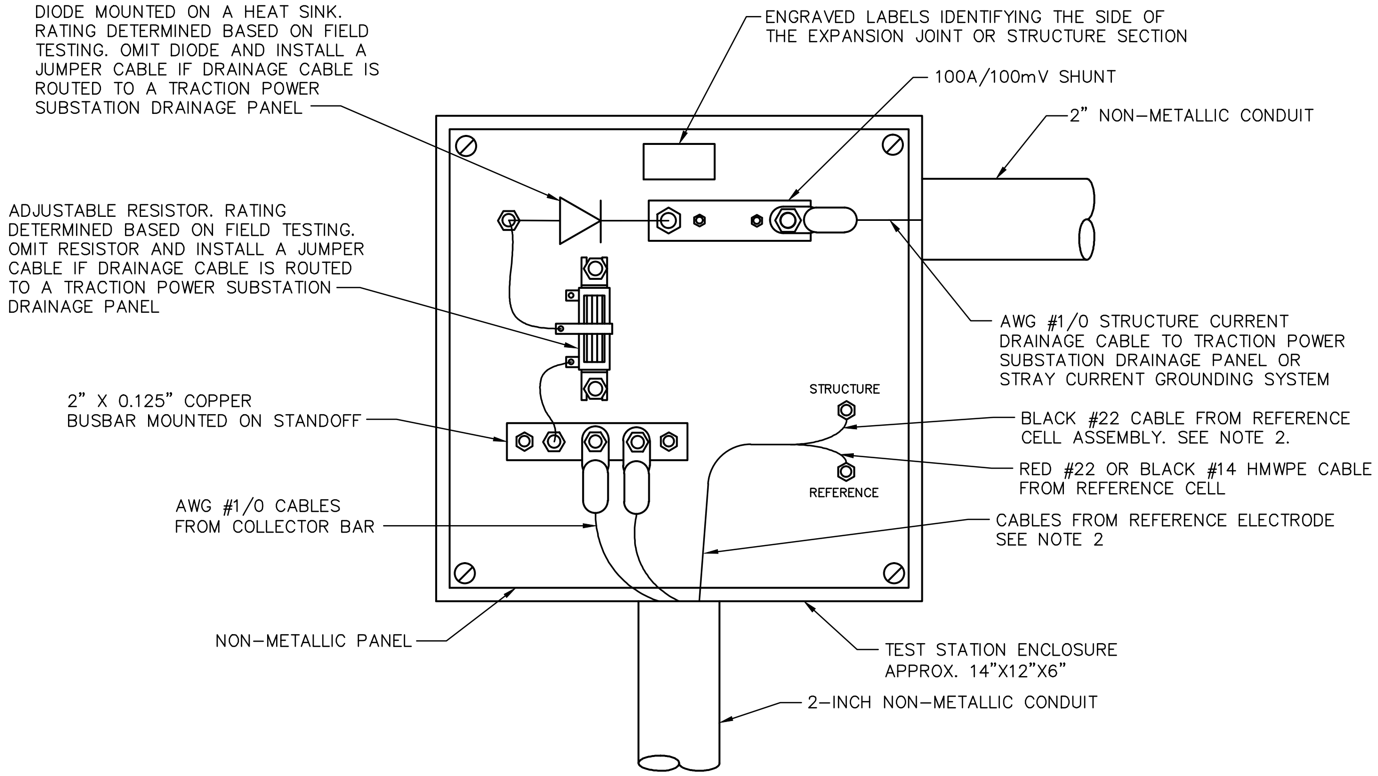
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 2

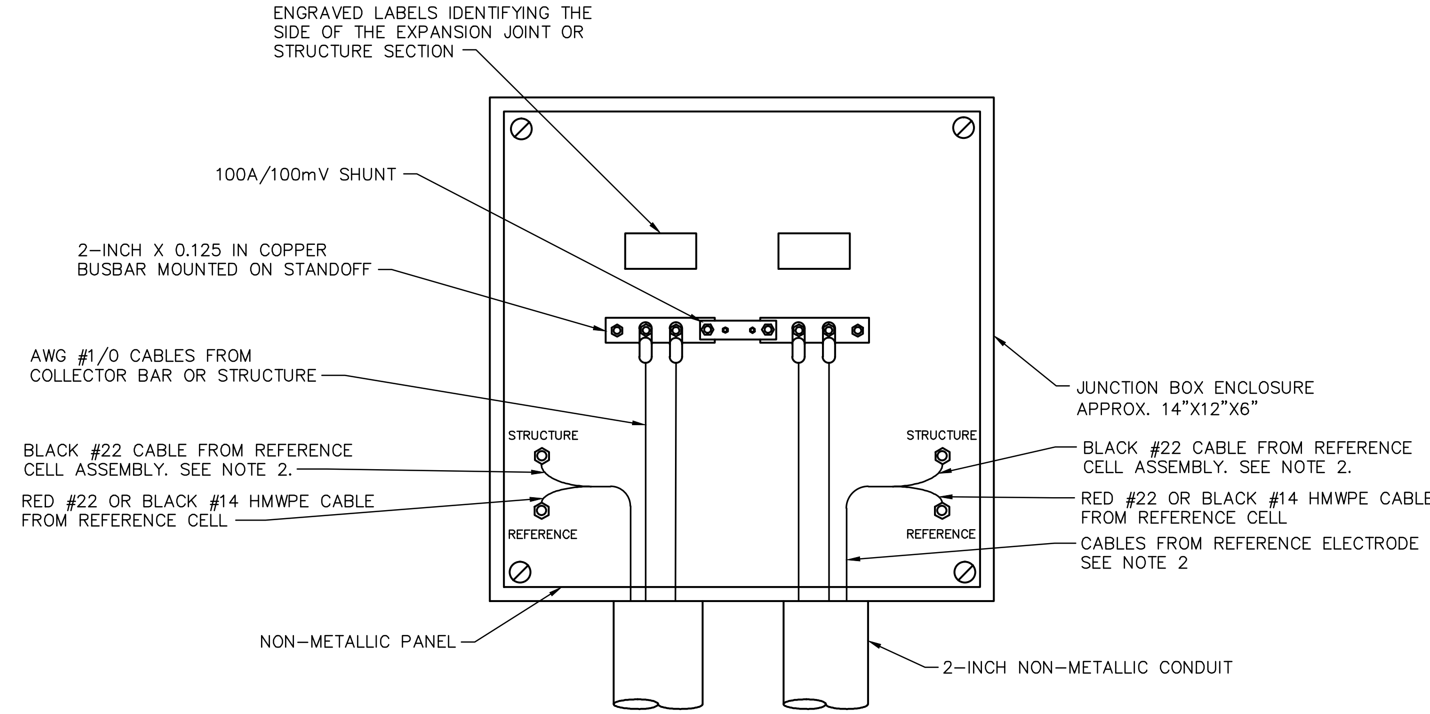
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-002

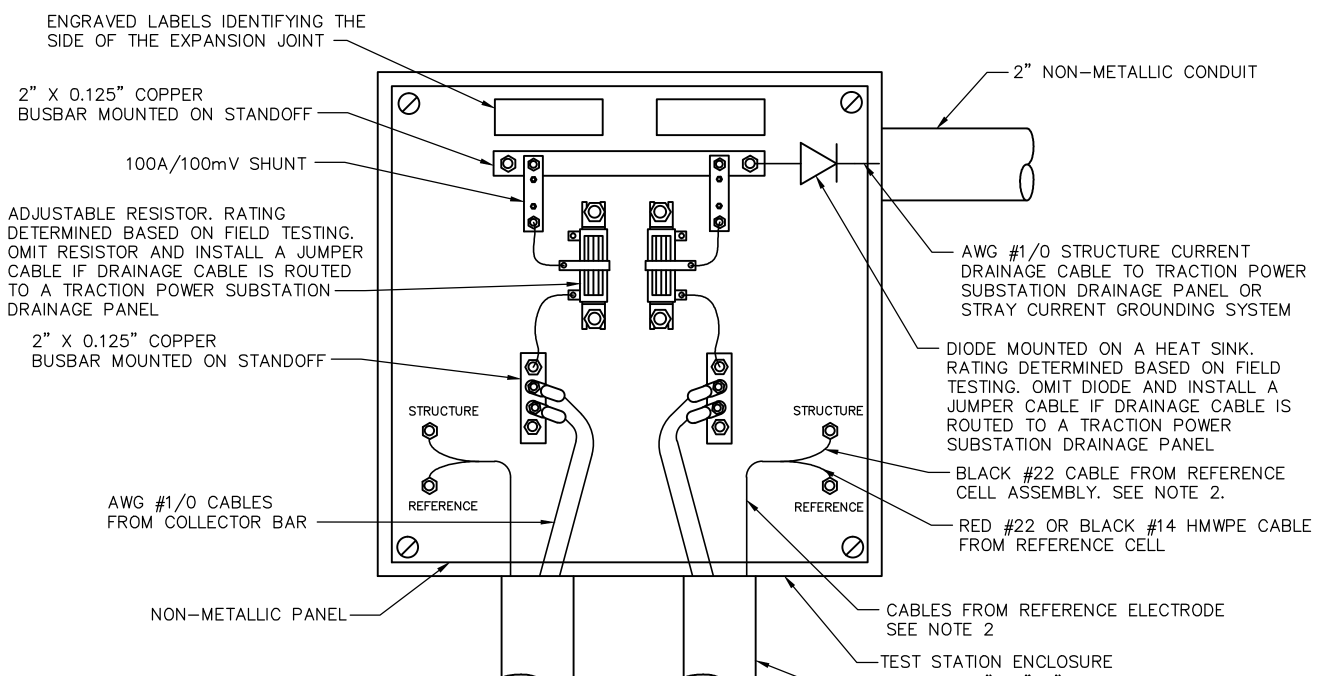
SHEET 426 OF 464



1 STRAY CURRENT TEST STATION WITH DRAINAGE CIRCUIT



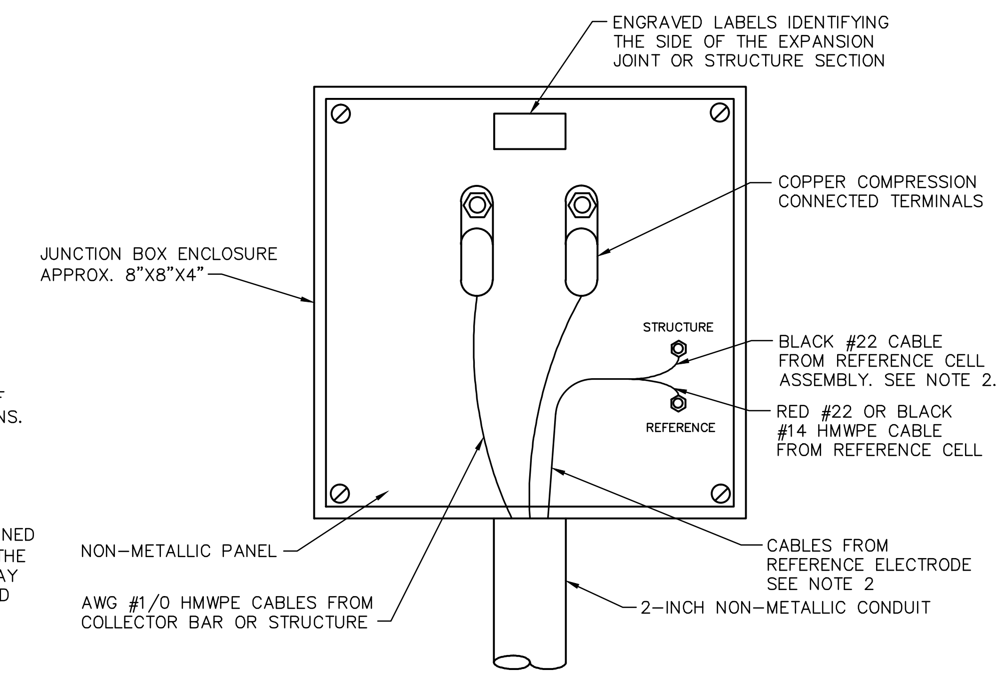
3 STRAY CURRENT JUNCTION BOX



2 STRAY CURRENT JUNCTION BOX WITH DRAINAGE CIRCUIT

NOTES:

1. CONDUIT ENTRANCE LOCATIONS SHOWN ARE TYPICAL. ACTUAL ENTRANCE LOCATIONS AND TOTAL NUMBER OF CONDUITS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS.
2. DELETE REFERENCE ELECTRODE STRUCTURE WIRE FOR UNDERGROUND COPPER/COPPER SULFATE REFERENCE ELECTRODE INSTALLATIONS.
3. THE DIODE AND RESISTOR RATINGS SHALL BE DETERMINED THROUGH FIELD TESTING AND/OR COMMISSIONING OF THE DRAINAGE CIRCUIT, IF IT IS DEMONSTRATED THAT STRAY CURRENT DRAINAGE IS NECESSARY. A HEAT SINK AND JUNCTION BOX VENTILATION SHALL BE ADDED IF NECESSARY BASED ON THE HEAT DISSIPATION OF THE DIODE AND RESISTOR.
4. TEST STATIONS WITH DRAINAGE CIRCUITS SHALL BE LOCATED AT THE COLLECTOR BAR NEAREST THE TRACTION POWER SUBSTATION OR GROUNDING SYSTEM IF PRACTICAL.



4 STRAY CURRENT INTERMEDIATE OR END OF STRUCTURE TEST STATION

Jan. 15 2016 01:52 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\CORROSION\90% CIVIL PLANS\E0-SYS-CORR-DTL-003.dwg By: mccoolj

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 3

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-003

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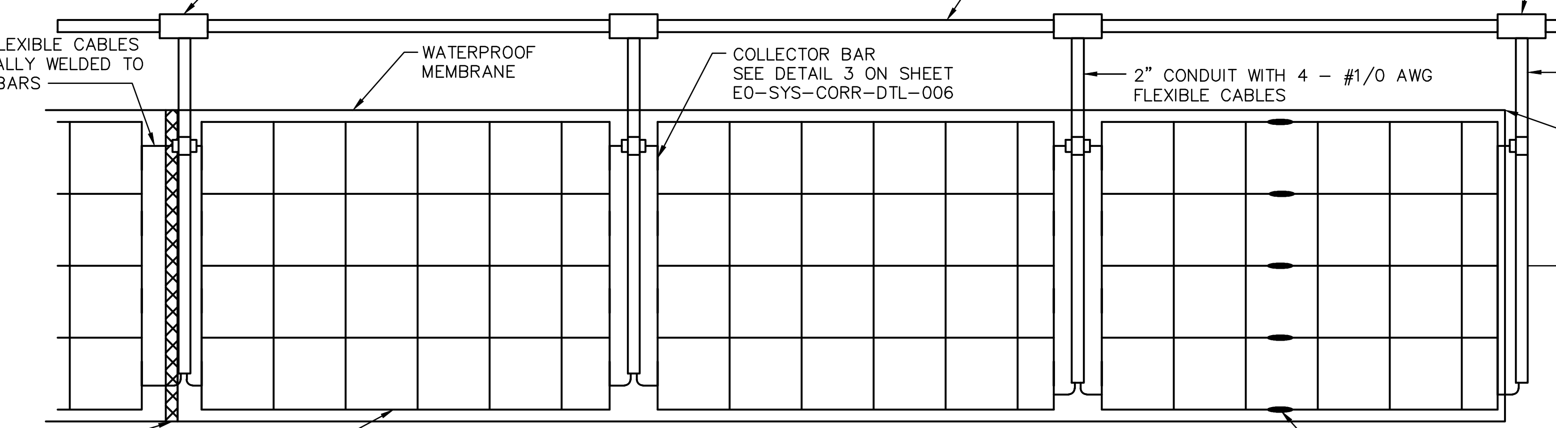
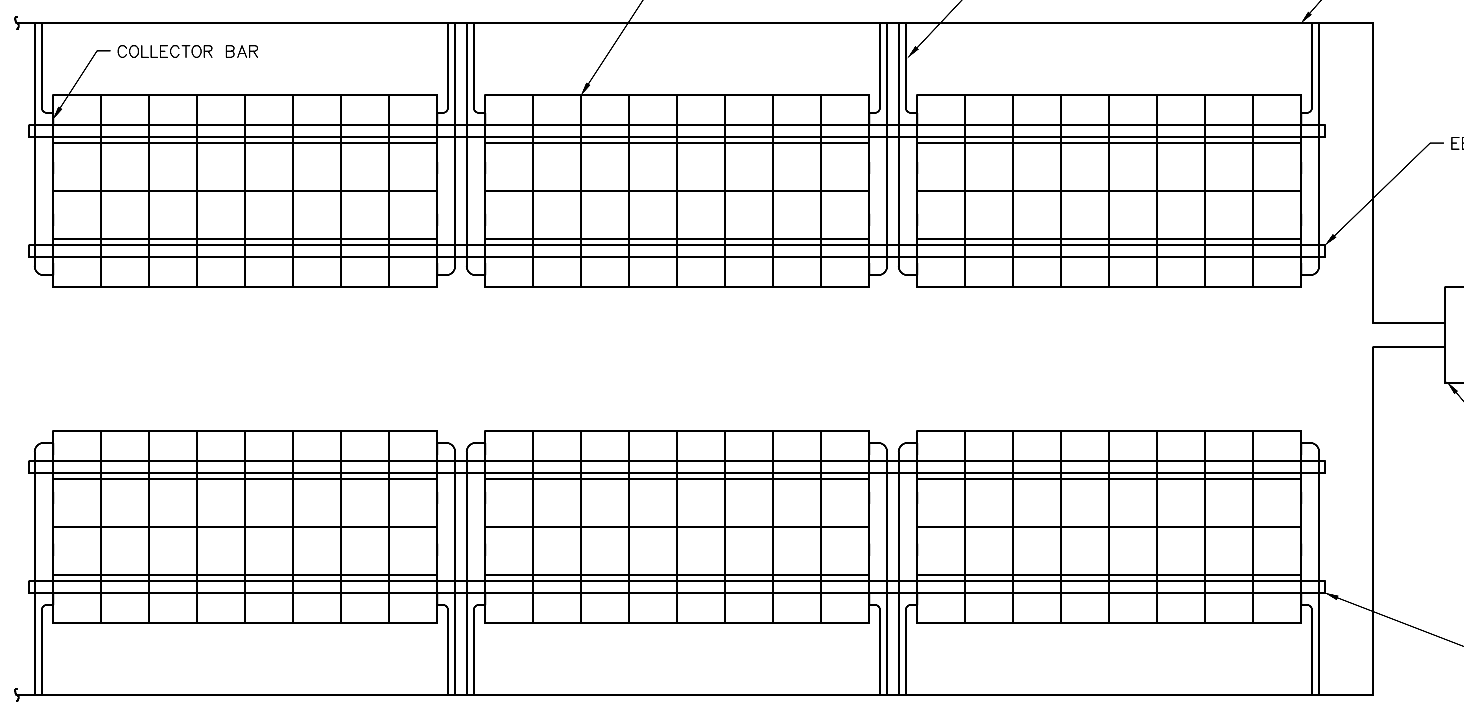


1 BALLASTED AERIAL TRACK STRAY CURRENT COLLECTION MAT SYSTEM TYPICAL LAYOUT DETAIL



2 STRAY CURRENT COLLECTION MAT SYSTEM SCHEMATIC

NOTES:

1. THE COLLECTOR BAR SHALL BE AN INSULATED #1/0 AWG STRANDED COPPER CABLE EXOTHERMICALLY WELDED TO THE MESH. THE COLLECTOR BAR SHALL BE WELDED TO THE MESH AT EACH EDGE OF THE MESH AND AT A MAXIMUM SPACING OF 24 INCHES ALONG THE COLLECTOR BAR. SEE DETAIL 2 ON SHEET E0-SYS-CORR-DTL-006.
2. A COLLECTOR BAR SHALL BE EXOTHERMICALLY WELDED TO THE MESH ON EACH SIDE OF ANY PHYSICAL/ELECTRICAL DISCONTINUITY IN THE WELDED WIRE MESH. A MINIMUM OF 2 CABLES SHALL BE ROUTED IN NON-METALLIC CONDUIT TO A STRAY CURRENT COLLECTION MAT JUNCTION BOX FROM EACH COLLECTOR BAR.
3. STRAY CURRENT COLLECTION MAT JUNCTION BOXES SHALL BE LOCATED OUTSIDE OF THE VEHICLE ENVELOPE IN A REASONABLY ACCESSIBLE POSITION. WHERE INDICATED ON THE DRAWINGS THE STRAY CURRENT DRAINAGE CABLES SHALL BE ROUTED FROM THE STRAY CURRENT COLLECTION MAT JUNCTION BOX NEAREST THE TRACTION POWER SUBSTATION TO THE NEGATIVE DRAINAGE PANEL WITHIN THE TRACTION POWER SUBSTATION. AT SOME LOCATIONS THE STRAY CURRENT DRAINAGE CABLES MAY BE ROUTED TO A STRAY CURRENT GROUNDING SYSTEM.
4. SPLICING OF MESH, IF REQUIRED, SHALL BE COMPLETED USING EXOTHERMIC WELD CONNECTIONS. SEE DETAILS 1, 2 AND 4 ON SHEET E0-SYS-CORR-DTL-006.
5. ALL EXOTHERMIC WELD CONNECTIONS SHALL BE CLEANED OF ALL SLAG AND WELD RESIDUE WITH A STIFF WIRE BRUSH THEN COATED WITH AN APPROVED EPOXY.

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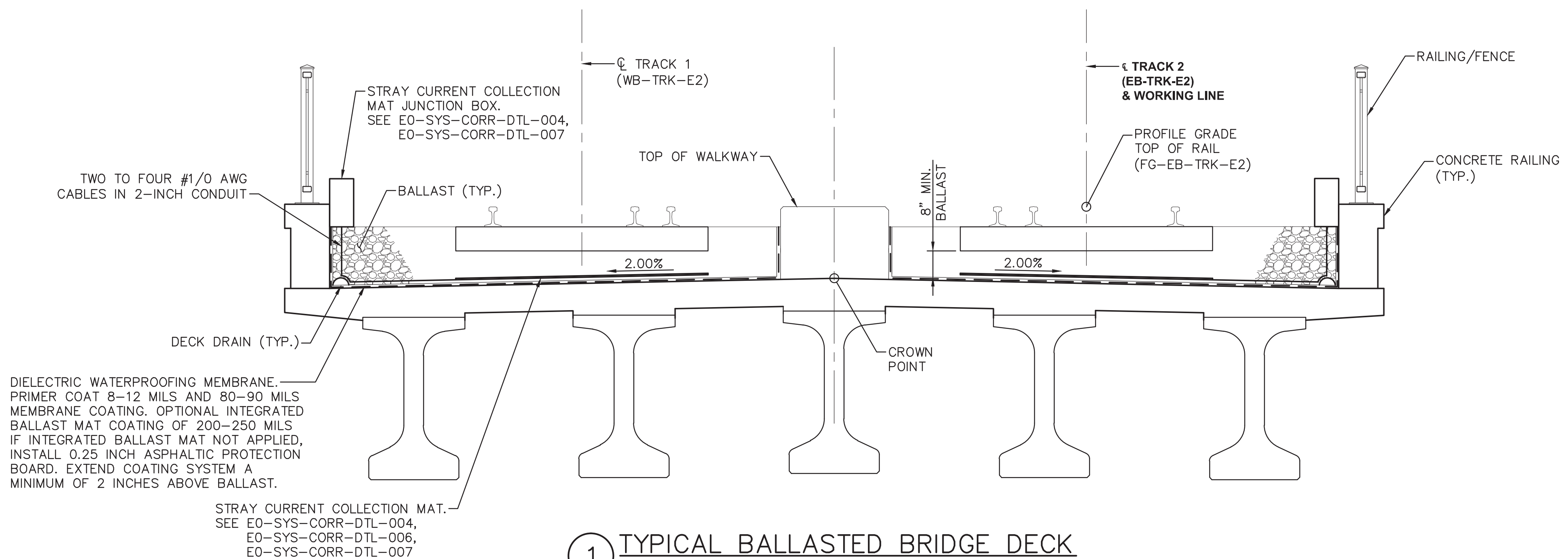
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 4

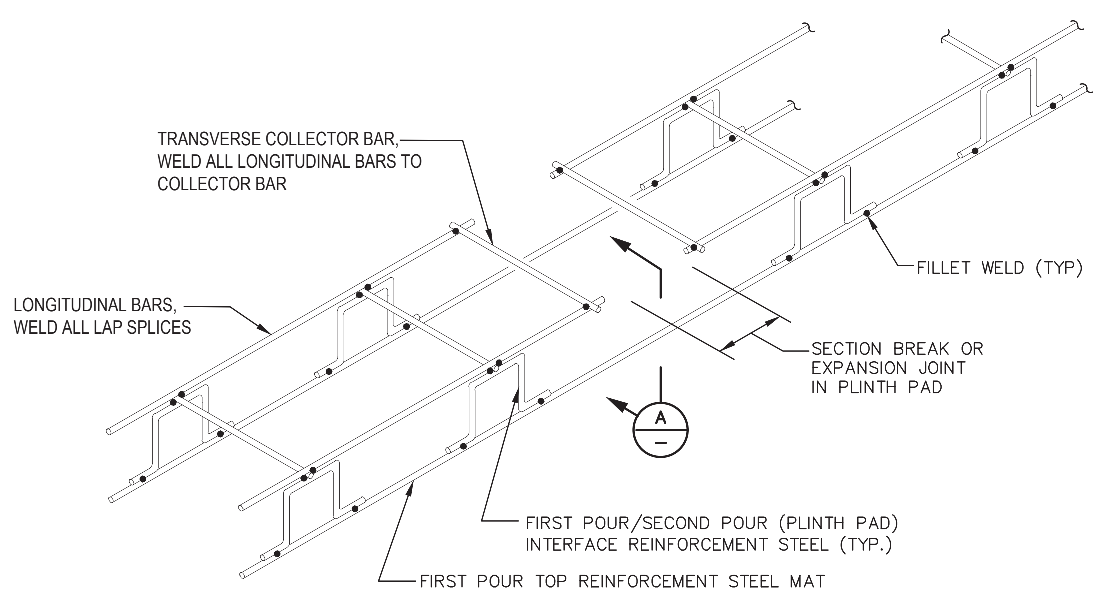
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-004

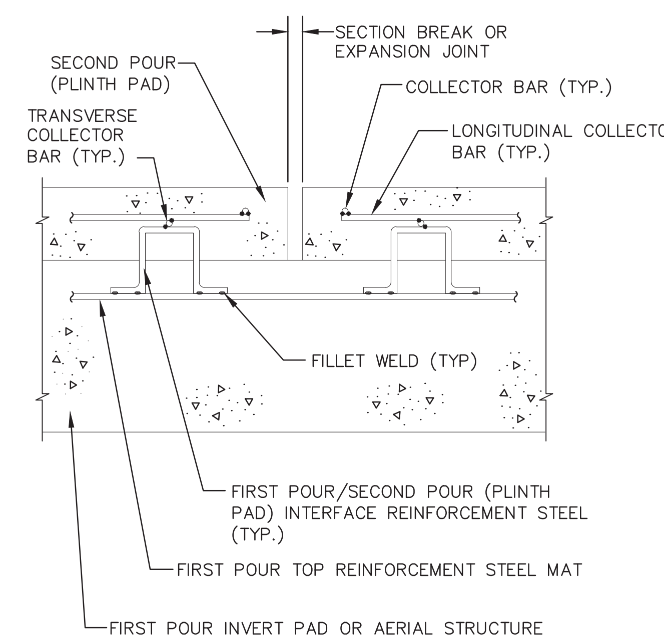


1 TYPICAL BALLASTED BRIDGE DECK
STRAY CURRENT CONTROL SECTION

0 1' 2' 4'
SCALE IN FEET



2 PLINTH REBAR TO TRACK SLAB REBAR CONTINUITY



SECTION A –

NOTES:

1. THIS DETAIL IS ONLY APPLICABLE IF ELECTRICALLY CONTINUOUS BLACK REBAR WILL BE PRESENT IN THE TRACK SLAB (FIRST POUR) CONCRETE.
2. IF TRACK SLAB REBAR IS EPOXY COATED, THEN ALL REBAR IN THE PLINTH BLOCKS SHALL BE EPOXY COATED REBAR AND ELECTRICAL CONTINUITY OF THE EPOXY COATED REBAR IS NOT REQUIRED.

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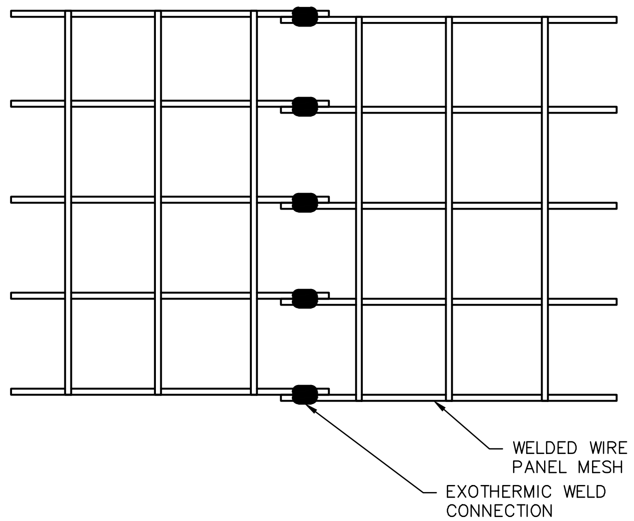
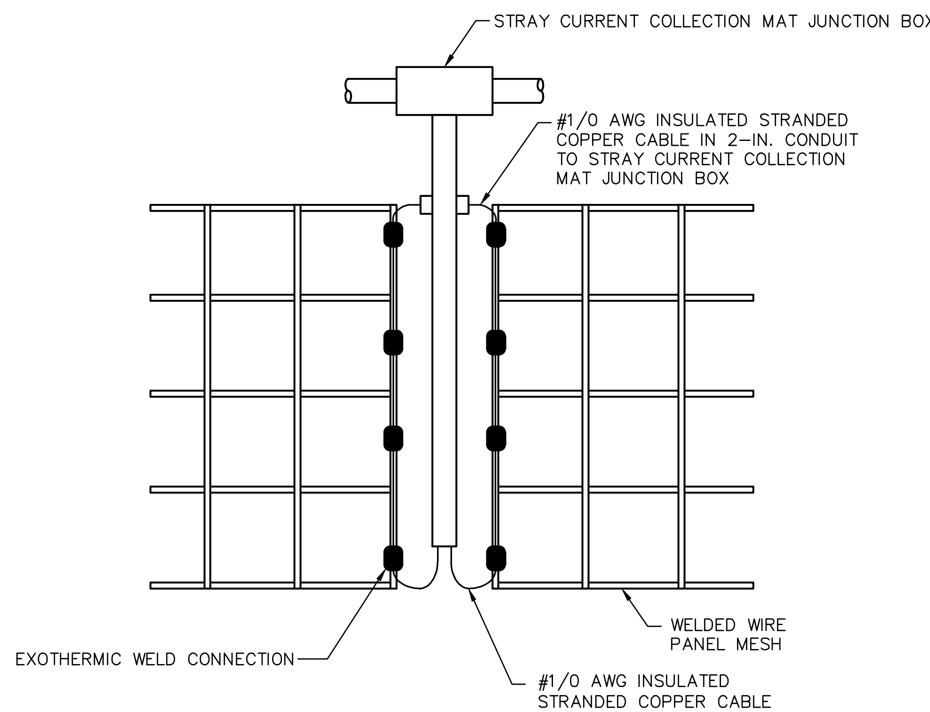
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 5

DISCIPLINE: CORR

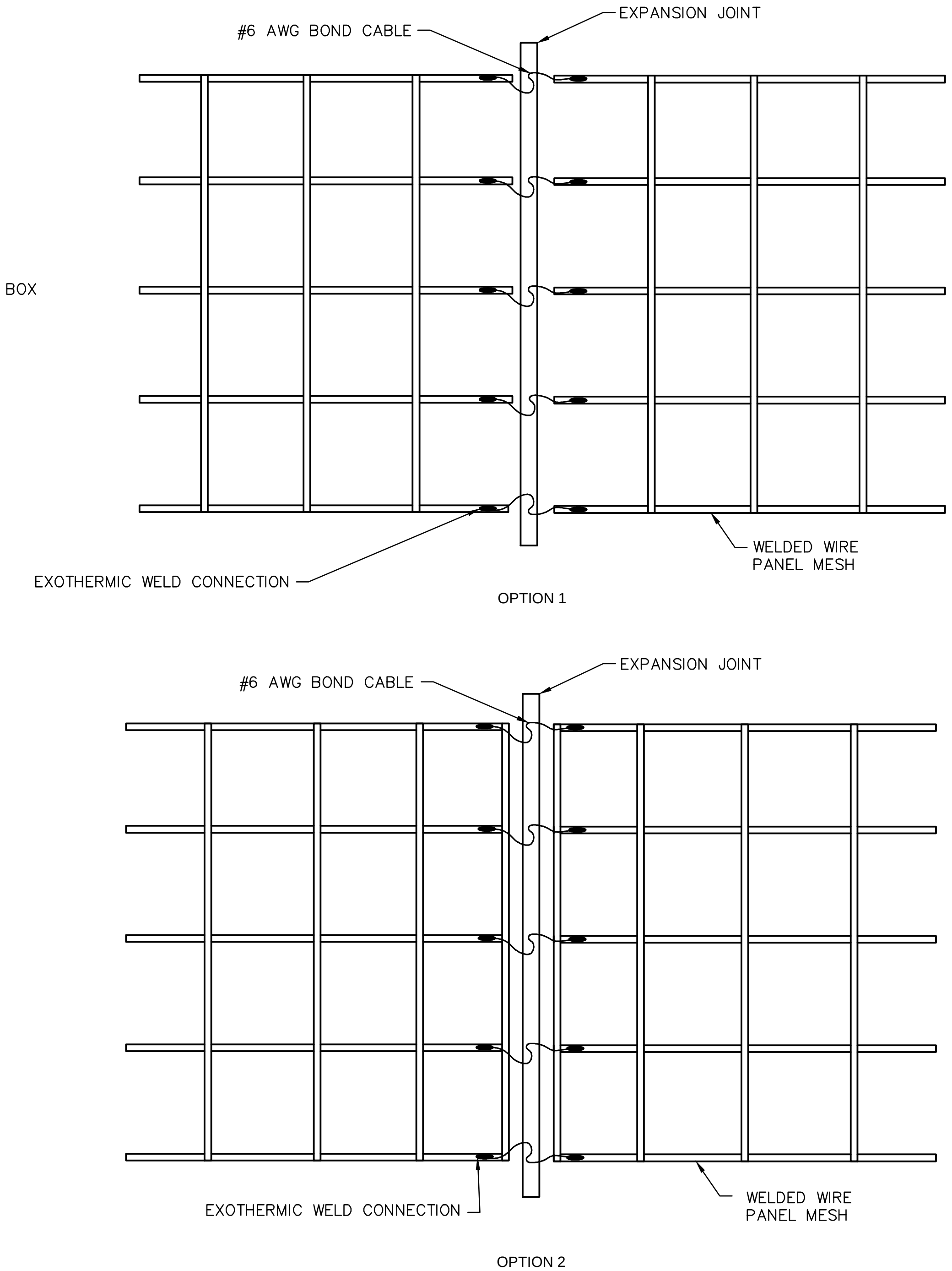
SHEET NAME: E0-SYS-CORR-DTL-005



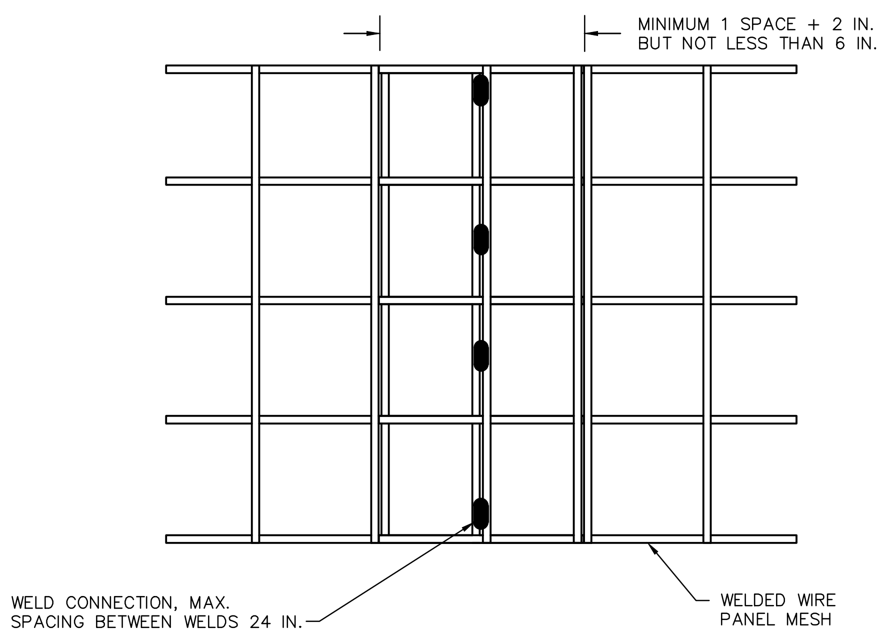
1 STRAY CURRENT COLLECTION MAT SPLICE DETAIL



3 STRAY CURRENT COLLECTION MAT COLLECTOR BAR DETAIL



4 STRAY CURRENT COLLECTION MAT SPLICE DETAILS AT EXPANSION JOINT



2 STRAY CURRENT COLLECTION MAT SPLICE DETAIL

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STRAY CURRENT CONTROL DETAILS 6

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-006

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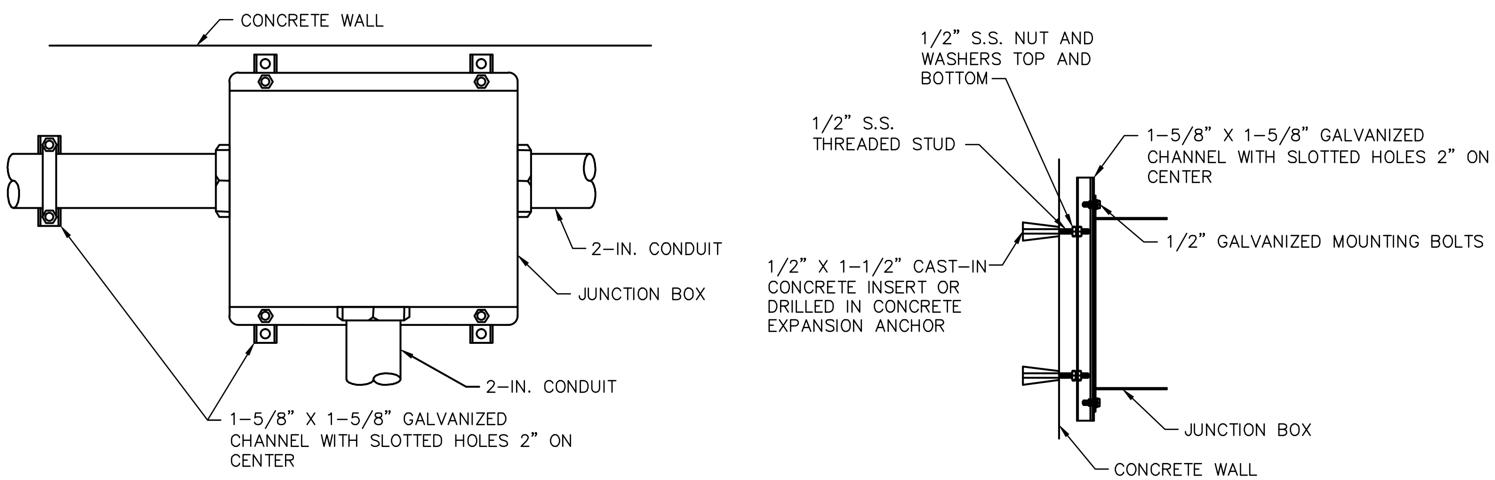
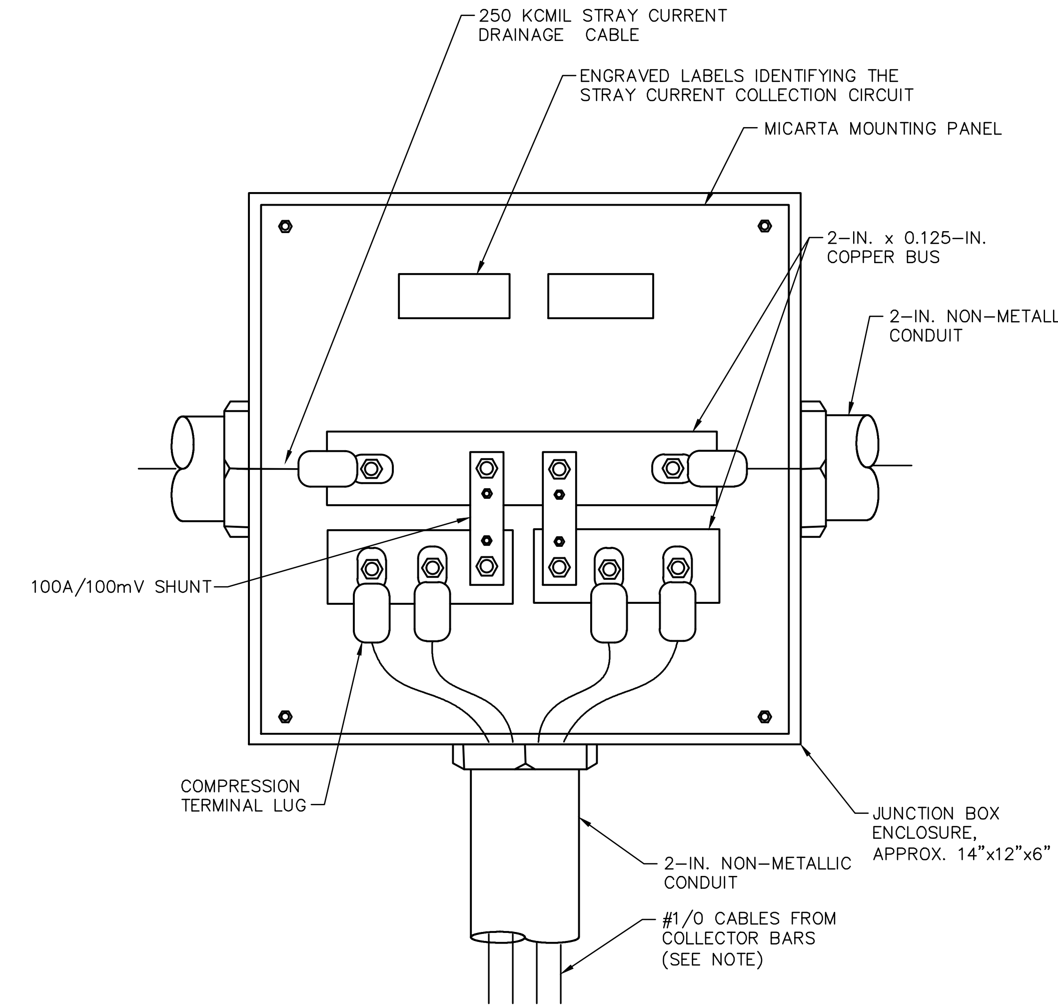


1 STRAY CURRENT COLLECTION MAT JUNCTION BOX MOUNTING DETAILS



2 STRAY CURRENT COLLECTION MAT JUNCTION BOX

NOTES:

1. NOT ALL STRAY CURRENT COLLECTION MAT JUNCTION BOXES WILL HAVE TWO PAIRS OF #1/0 CABLES. JUNCTION BOXES LOCATED AT THE ENDS OF THE AERIAL SEGMENTS WILL HAVE ONE PAIR OF #1/0 CABLES FROM THE FIRST DECK COLLECTOR MAT AT THE BEGINNING AND END OF EACH AERIAL SEGMENT, TWO #1/0 CABLES FROM THE ADJACENT TRANSITION SLAB (IF PRESENT), ONE 250 MCM CABLE FROM THE ADJACENT STRAY CURRENT COLLECTION MAT JUNCTION BOX AND ONE 250 MCM CABLE FROM THE GROUND ROD ARRAY AT THE BASE OF THE ABUTMENT.
2. ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.

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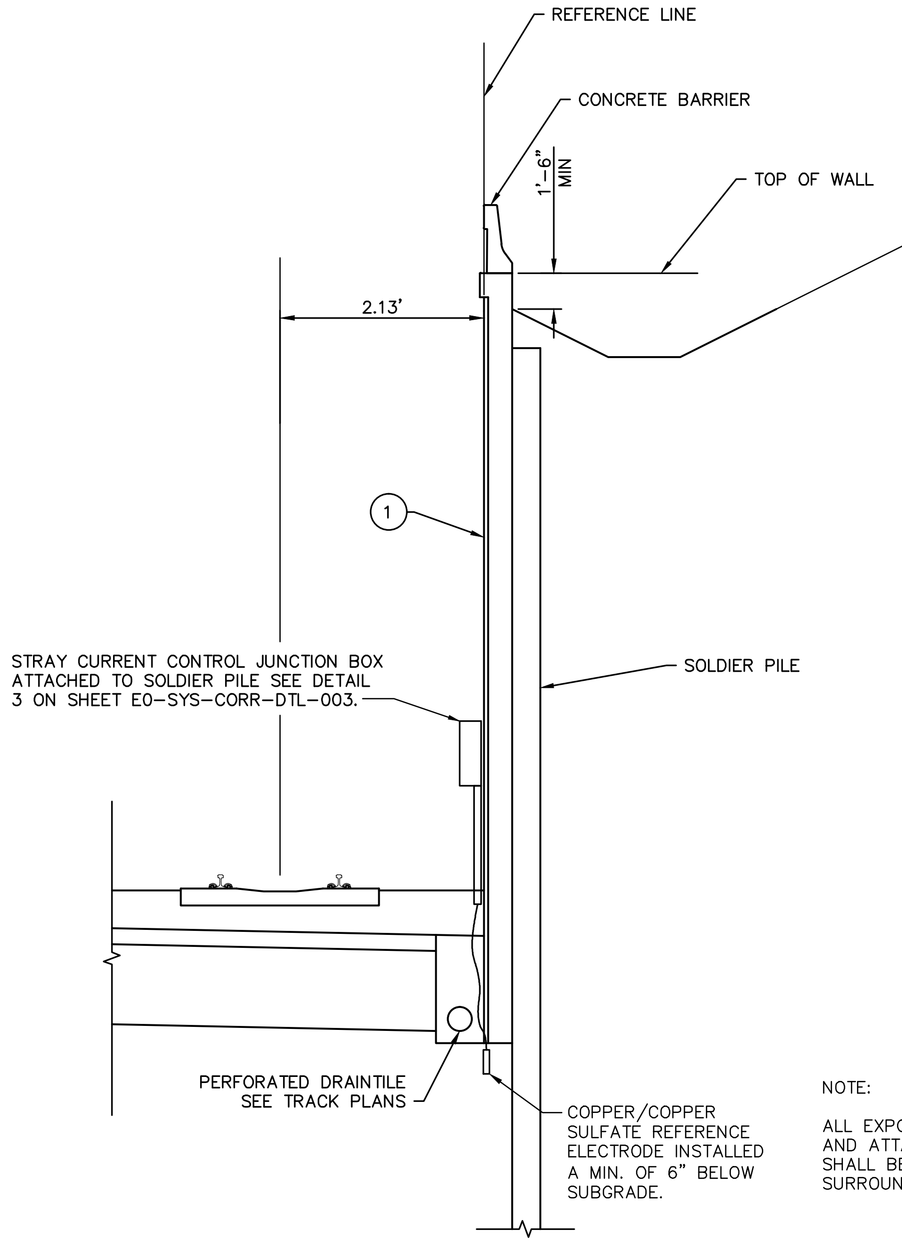
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 7

DISCIPLINE: CORR

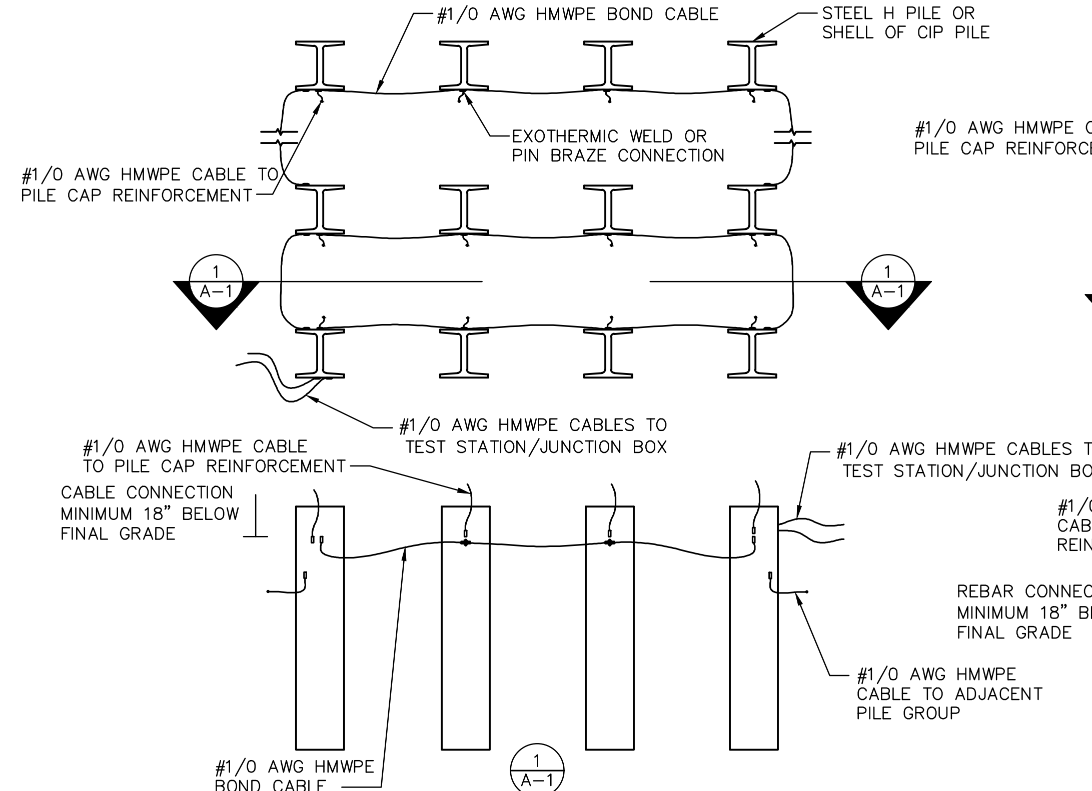
SHEET NAME: E0-SYS-CORR-DTL-007



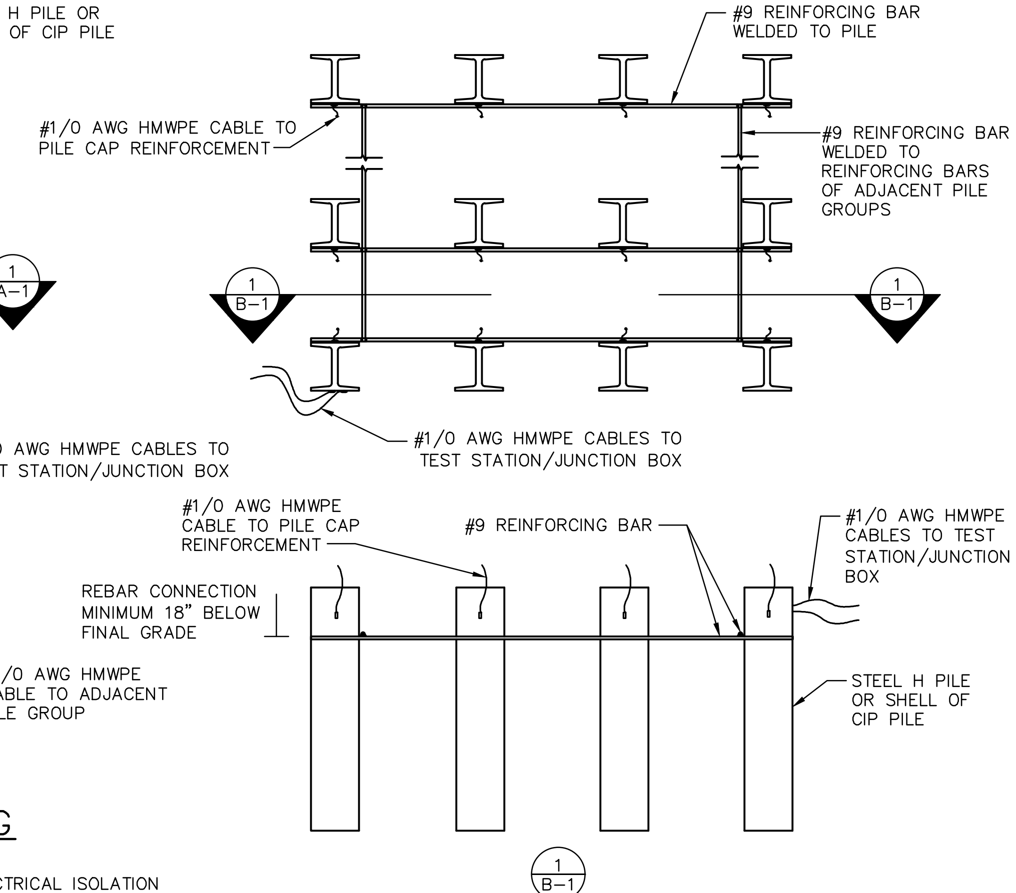
NOTES:

1. ARCHITECTURAL CONCRETE TEXTURE, SEE ELEVATION FOR TEXTURE TYPE
2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL
3. BOND SOLDIER PILES PER SHEET E0-SYS-COR-DTL-008

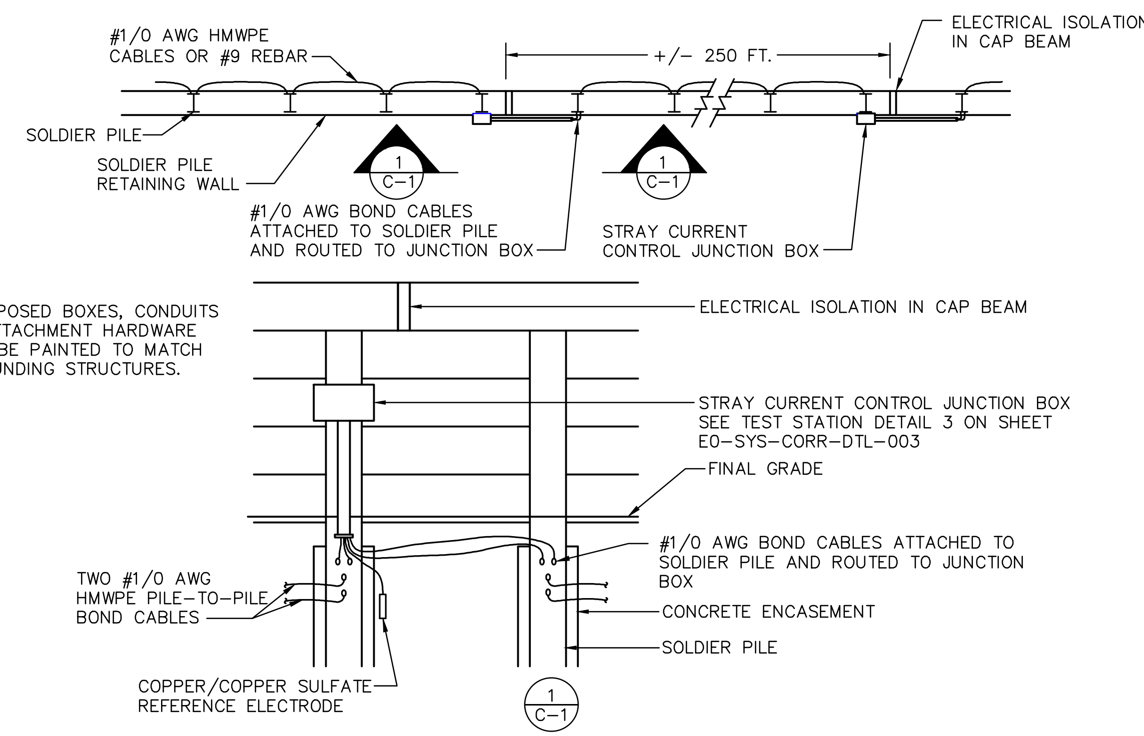
1 TYPICAL SOLDIER PILE AND LAGGING (SPL) WALL



2 STEEL PILE STRAY CURRENT BONDING



4 STEEL PILE STRAY CURRENT BONDING

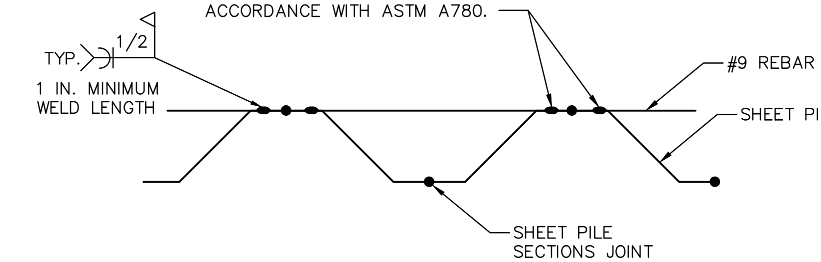


NOTE:

ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.

3 SOLDIER PILE STRAY CURRENT CONTINUITY BONDING

WELD ONE #9 REINFORCING BAR OR A #1/0 AWG HMWPE STRANDED COPPER CABLE ACROSS LENGTH OF SHEET PILE DESIGNATED FOR BONDING. WELD REBAR/CABLE TO EACH SHEET PILING SECTION. LAP SPLICE AND WELD REINFORCING BAR AS NECESSARY. UTILIZE GALVANIZED REINFORCING BAR IF SHEET PILING IS GALVANIZED. REMOVE THE MINIMUM AMOUNT OF GALVANIZING FROM THE SHEET PILING AND REINFORCING BAR FOR THE WELDING PROCEDURE. REPAIR THE GALVANIZING ON THE COMPLETED WELD AND ALL BARE STEEL SURFACES IN ACCORDANCE WITH ASTM A780.



5 SHEET PILING STRAY CURRENT CONTINUITY BONDING

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STRAY CURRENT CONTROL DETAILS 8

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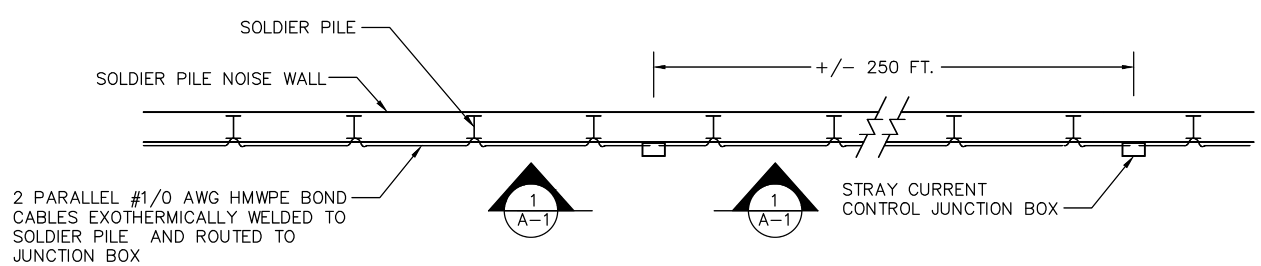
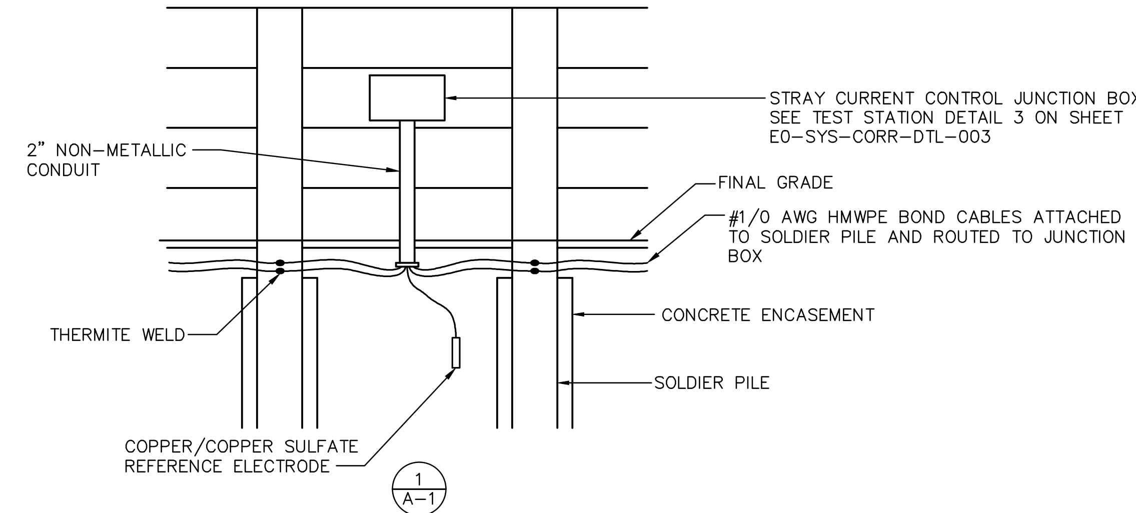
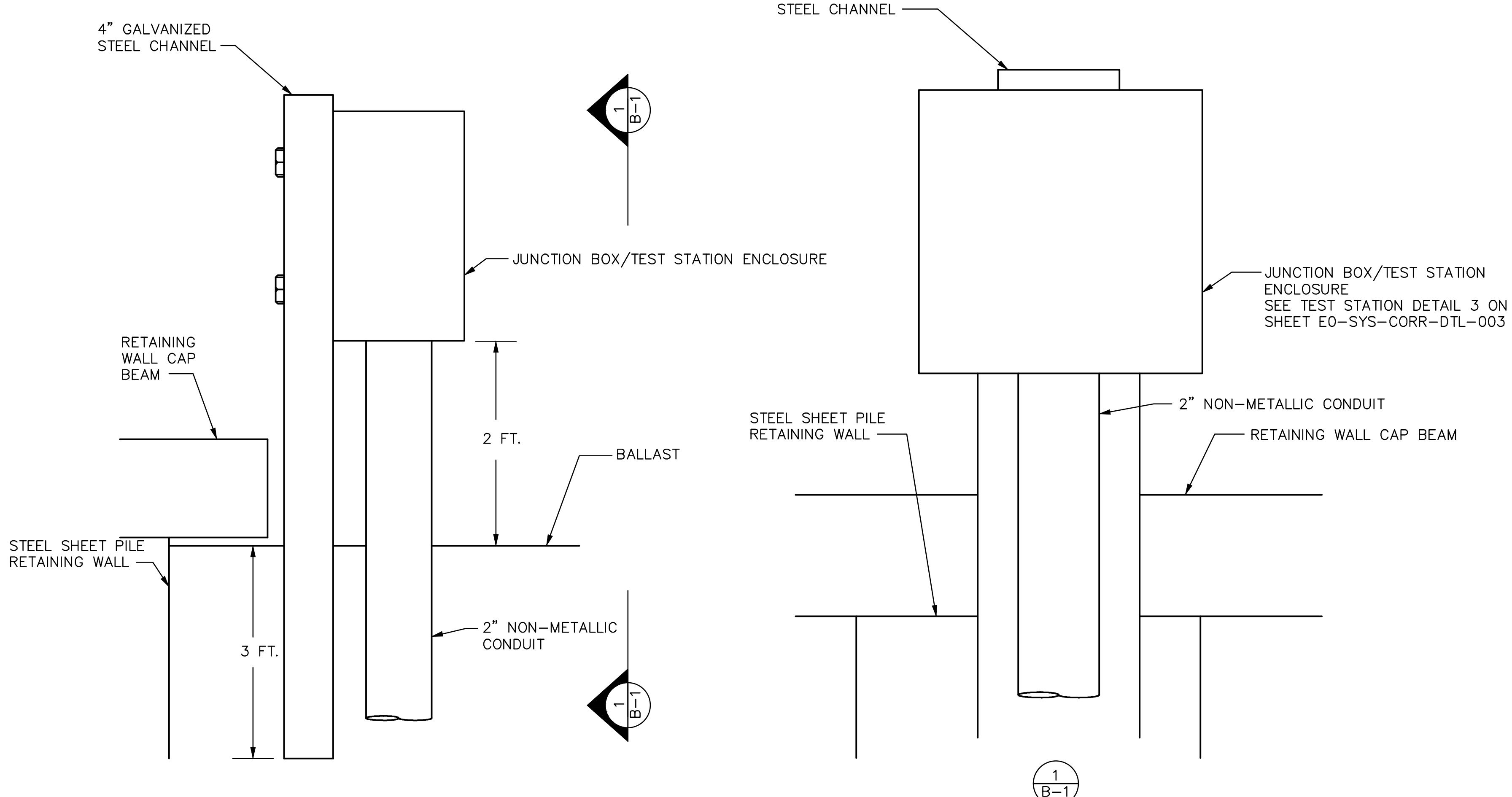




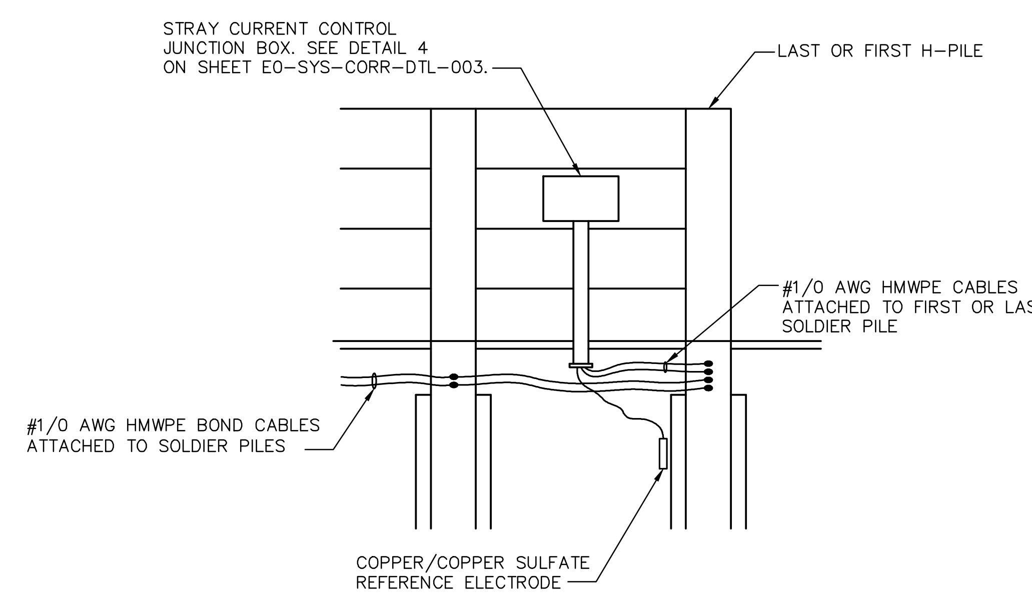
NOTES:

1. WHERE NFPA 130 EGRESS IS IMPEDED THE TEST STATION SHALL BE MOUNTED ON THE CONCRETE CAP WITH THE CONDUIT CAST INTO THE CONCRETE INFILL.
2. ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.

1 SOLDIER PILE NOISE WALL STRAY CURRENT CONTINUITY BONDING



2 RETAINING WALL TEST STATION/JUNCTION BOX MOUNTING DETAIL



3 TEST STATION AT LAST OR FIRST SOLDIER PILE

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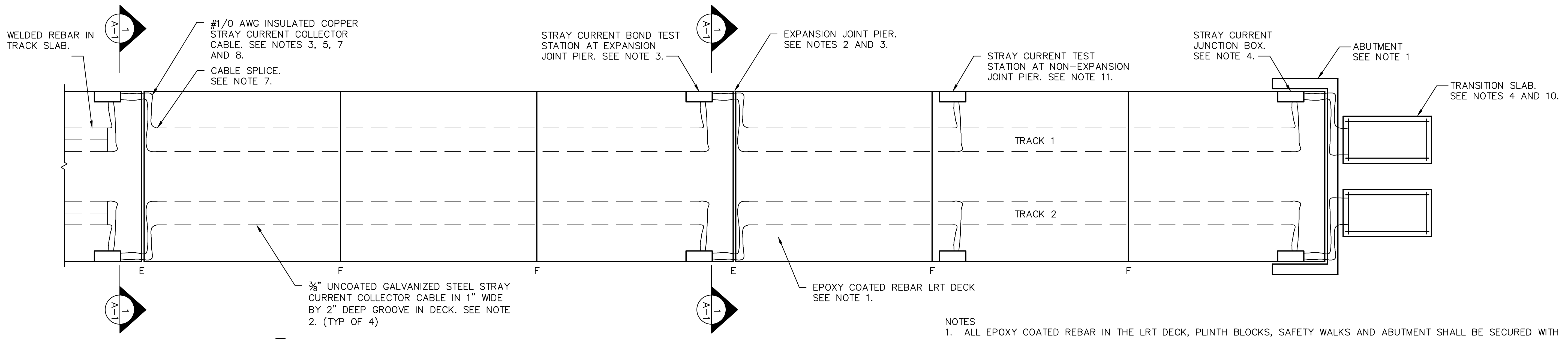
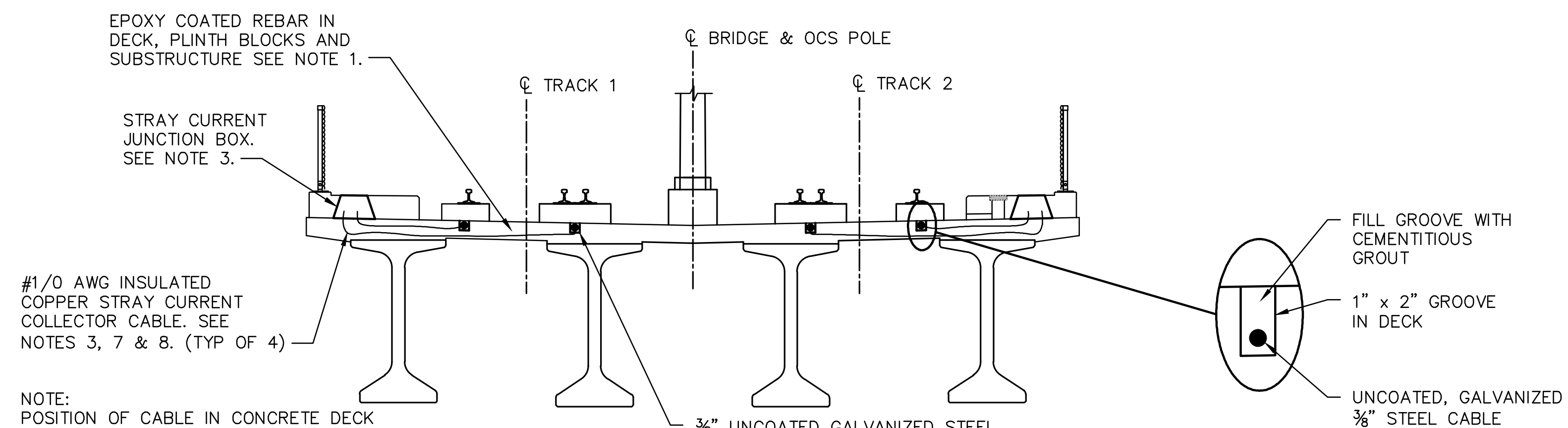
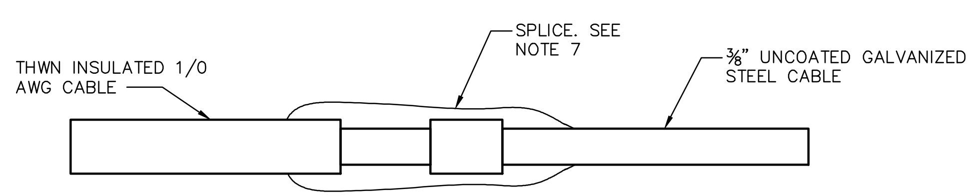


1 PLAN VIEW TYPICAL STRAY CURRENT COLLECTION CABLES FOR EPOXY COATED REBAR LRT DECK WITH DIRECT FIXATION TRACKWORK

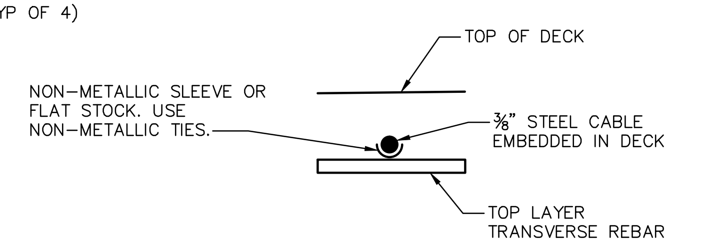


NOTE:
POSITION OF CABLE IN CONCRETE DECK SLAB FOR EMBEDDED TRACKWORK IS THE SAME AS SHOWN FOR DIRECT FIXATION TRACKWORK.

1
A-1



2 SPLICE DETAIL



3 ALTERNATE STEEL CABLE INSTALLATION

NOTES

1. ALL EPOXY COATED REBAR IN THE LRT DECK, PLINTH BLOCKS, SAFETY WALKS AND ABUTMENT SHALL BE SECURED WITH NON-METALLIC OR NON-METALLIC COATED TIES.

2. A 3/8" UNCOATED GALVANIZED STEEL CABLE SHALL BE INSTALLED IN 1" BY 2" DEEP GROOVES OR EMBEDDED IN THE DECK POSITIONED IN THE DECK DIRECTLY BELOW EACH RUNNING RAIL. THE CABLES SHALL BE POSITIONED IN THE DECK SUCH THAT THEY DO NOT INTERFERE WITH INSTALLATION OF THE PLINTH ANCHOR INSERTS OR CONTACT THE EPOXY COATED REBAR IN THE DECK. AFTER PLACEMENT OF CABLE IN THE GROOVE, THE GROOVE SHALL BE FILLED WITH CEMENTITIOUS GROUT.

3. AT STRAY CURRENT BOND TEST STATIONS LOCATED AT EXPANSION JOINTS, ON EACH SIDE OF THE EXPANSION TYPE JOINT 1/0 AWG THWN INSULATED CABLES SHALL BE THERMITE WELDED ONTO THE 3/8" STEEL CABLES (SEE NOTE 7). THE TWO 1/0 AWG INSULATED CABLES FROM UNDER TRACK 1 SHALL BE TERMINATED IN A STRAY CURRENT JUNCTION BOX EMBEDDED IN THE SAFETY WALK FOR TRACK 1. THE TWO 1/0 AWG INSULATED CABLES FROM TRACK 2 SHALL BE TERMINATED IN A STRAY CURRENT JUNCTION BOX EMBEDDED IN THE SAFETY WALK FOR TRACK 2. SEE NOTE 8.

4. THE STRAY CURRENT TEST STATIONS AT ABUTMENTS SHALL CONTAIN TWO 1/0 AWG INSULATED CABLES, A 250 MCM AWG INSULATED CABLE THAT TERMINATES AT A STRAY CURRENT GROUNDING SYSTEM (SEE NOTE 9) INSTALLED NEAR THE ABUTMENT FOOTING AND TWO 1/0 AWG INSULATED CABLES FROM THE WELDED REBAR IN THE ADJACENT TRANSITION SLAB (IF PRESENT).

5. SUFFICIENT SLACK SHALL BE PROVIDED IN EACH OF THE INSULATED 1/0 AWG CABLES SPANNING THE EXPANSION JOINTS TO ALLOW FOR MOVEMENT BETWEEN THE DECK SPANS.

6. ALL BEARINGS SHALL PROVIDE ELECTRICAL ISOLATION OF EMBEDDED STEEL ELEMENTS LOCATED ABOVE THE BEARING ASSEMBLIES FROM EMBEDDED STEEL ELEMENTS LOCATED BELOW THE BEARING ASSEMBLIES.

7. THE INSULATED 1/0 AWG CABLE SHALL BE THERMITE WELDED ONTO THE GALVANIZED 3/8" CABLE USING AN END-TO-END SPLICE (SEE SPLICE DETAIL). THE SPLICE CONNECTION SHALL BE COATED WITH A HEAT SHRINK SLEEVE OR 3-LAYER TAPE APPLICATION (SEE DETAIL 4 ON SHEET E0-SYS-CORR-DTL-029).

8. THE INSULATED 1/0 AWG CABLES SHALL BE RUN IN NON-METALLIC CONDUIT WHEN NOT EMBEDDED DIRECTLY IN CONCRETE.

9. INSTALL STRAY CURRENT GROUND ROD ARRAY NEAR BASE OF ABUTMENT. GROUND ROD ARRAY SHOULD EXHIBIT A MAXIMUM RESISTANCE TO EARTH OF 25 OHMS. USE 250 MCM THWN CABLE TO INTERCONNECT GROUND RODS AND AS GROUND CABLE TO STRAY CURRENT COLLECTION MAT TEST STATIONS AT END OF BRIDGE STRUCTURE. 250 MCM CABLE SHALL RUN INSIDE 2" SCH 80 PVC CONDUIT THAT IS EMBEDDED WITHIN ABUTMENT. SEE DETAILS 2 THROUGH 4 ON SHEET E0-SYS-CORR-DTL-013.

10. LONGITUDINAL REBAR IN TRANSITION SLAB SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN SLAB. END TRANSVERSE COLLECTOR BARS SHALL BE WELDED TO ALL LONGITUDINAL REBARS AT EACH END AND IN EACH REBAR LAYER OF THE TRANSITION SLAB. TOP AND BOTTOM REBAR LAYERS SHALL BE WELDED TOGETHER USING 1/2" X 2" STEEL STRAPS INSTALLED 2 PER TRACK AT EACH END OF SLAB. #1/0 AWG CABLES (2 PER TRACK) SHALL BE WELDED TO END TRANSVERSE COLLECTOR BAR NEAREST ABUTMENT AND TERMINATED IN JUNCTION BOX ALONG BRIDGE THAT HOUSES WIRES FROM BRIDGE TRACK SLAB AND GROUND ROD ARRAY.

11. AT STRAY CURRENT TEST STATIONS NOT LOCATED AT EXPANSION JOINTS, 1/0 AWG THWN INSULATED CABLES SHALL BE THERMITE WELDED ONTO THE 3/8" STEEL CABLES USING A TEE SPLICE AND COATING OF THE SPLICE AS CALLED OUT IN NOTE 7. THE TWO 1/0 AWG INSULATED CABLES FROM UNDER TRACK 1 SHALL BE TERMINATED IN A STRAY CURRENT JUNCTION BOX EMBEDDED IN THE SAFETY WALK FOR TRACK 1. THE TWO 1/0 AWG INSULATED CABLES FROM TRACK 2 SHALL BE TERMINATED IN A STRAY CURRENT JUNCTION BOX EMBEDDED IN THE SAFETY WALK FOR TRACK 2. SEE NOTE 8.

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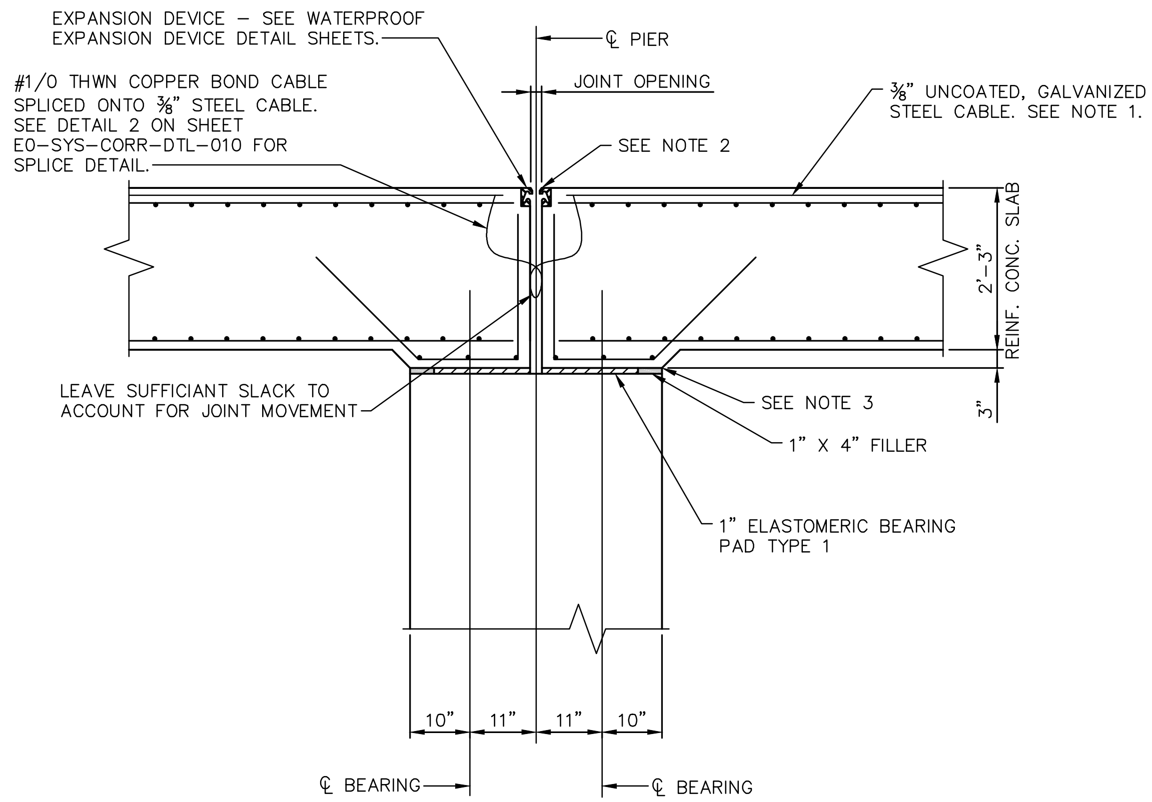
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

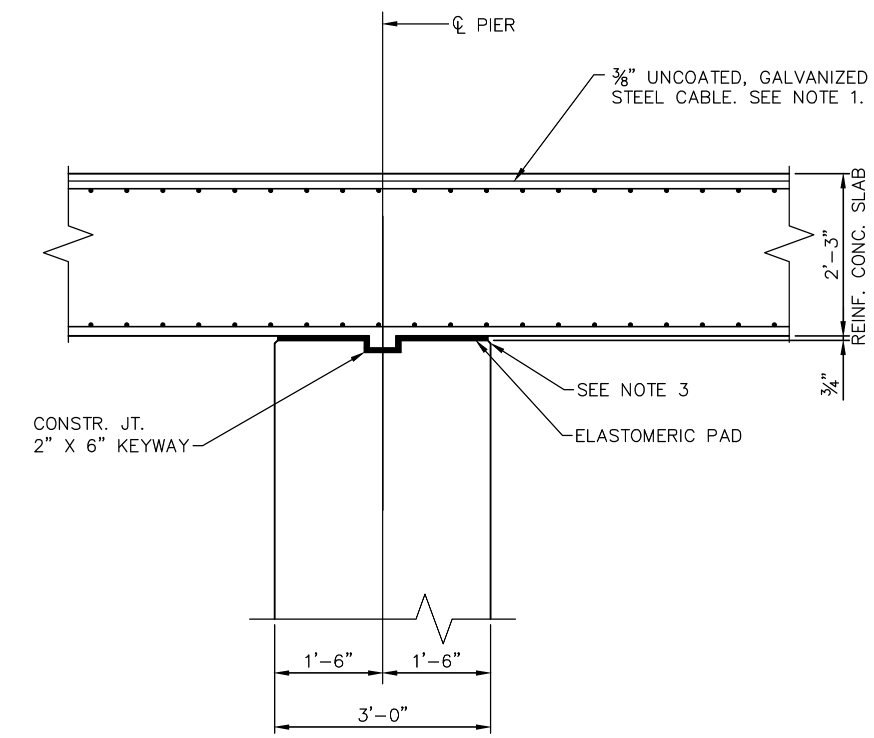
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 10

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-010



1 SECTION THROUGH SLAB SPAN EXPANSION PIER WITHOUT STRAY CURRENT BOND TEST STATION



2 SECTION THROUGH SLAB SPAN FIXED PIER WITHOUT STRAY CURRENT BOND TEST STATION

NOTES:

1. A 3/8-INCH UNCOATED, GALVANIZED STEEL CABLE SHALL BE INSTALLED IN A 1" x 2" DEEP GROOVE OR EMBEDDED IN THE DECK POSITIONED IN THE DECK DIRECTLY BELOW EACH RUNNING RAIL. THE CABLE/GROOVE SHALL BE POSITIONED IN THE DECK SUCH THAT IT DOES NOT INTERFERE WITH INSTALLATION OF THE PLINTH ANCHOR INSERTS OR CONTACT THE EPOXY COATED REBAR IN THE DECK.

2. AT DECK EXPANSION JOINTS THAT DO NOT HAVE A STRAY CURRENT BOND TEST STATION ELECTRICAL CONTINUITY OF THE GALVANIZED STEEL CABLE SHALL BE MAINTAINED ACROSS THE EXPANSION JOINT. SUFFICIENT SLACK SHALL BE AVAILABLE IN THE CABLES THAT SPAN THE EXPANSION JOINT TO ACCOUNT FOR MOVEMENT OF THE JOINT. SEE DETAIL 1 ON SHEET E0-SYS-CORR-DTL-010 FOR SECTION AT STRAY CURRENT BOND TEST STATION LOCATION.

3. IF ISOLATION CANNOT BE ACHIEVED AT THESE PIERS, THEN INSTALL TWO #1/0 COPPER CABLES WITH THWN INSULATION THAT ARE WELDED TO THE GALVANIZED STEEL CABLES IN THE DECK ABOVE THE PIER AND WELDED TO THE #9 REBAR OR #1/0 AWG CABLE THAT INTERCONNECTS THE STEEL SHELLS OF THE CIP PILES IN THE PIER FOOTING.

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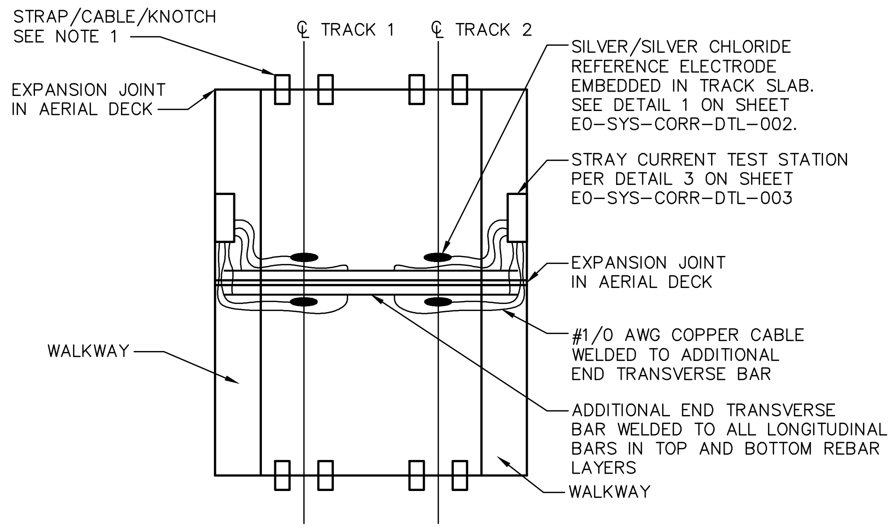
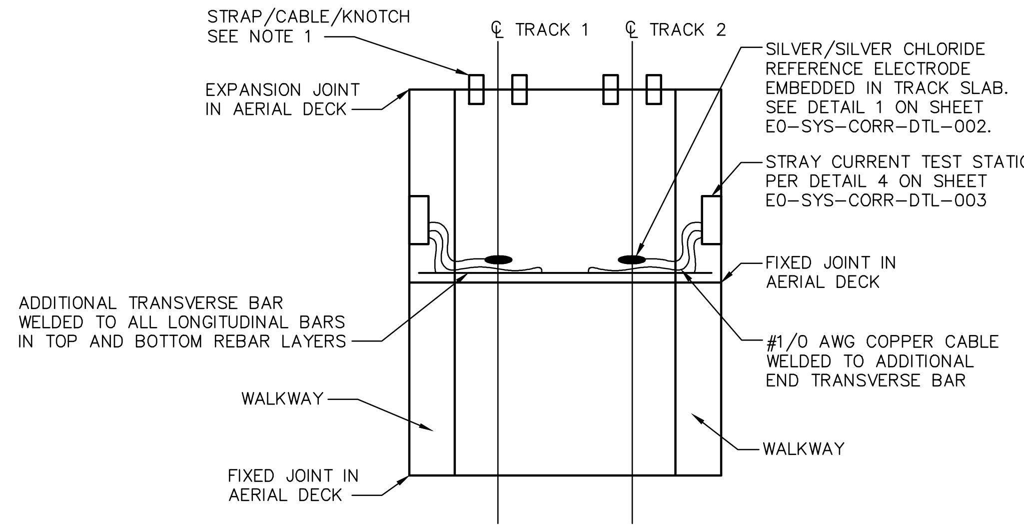
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 11

DISCIPLINE: CORR

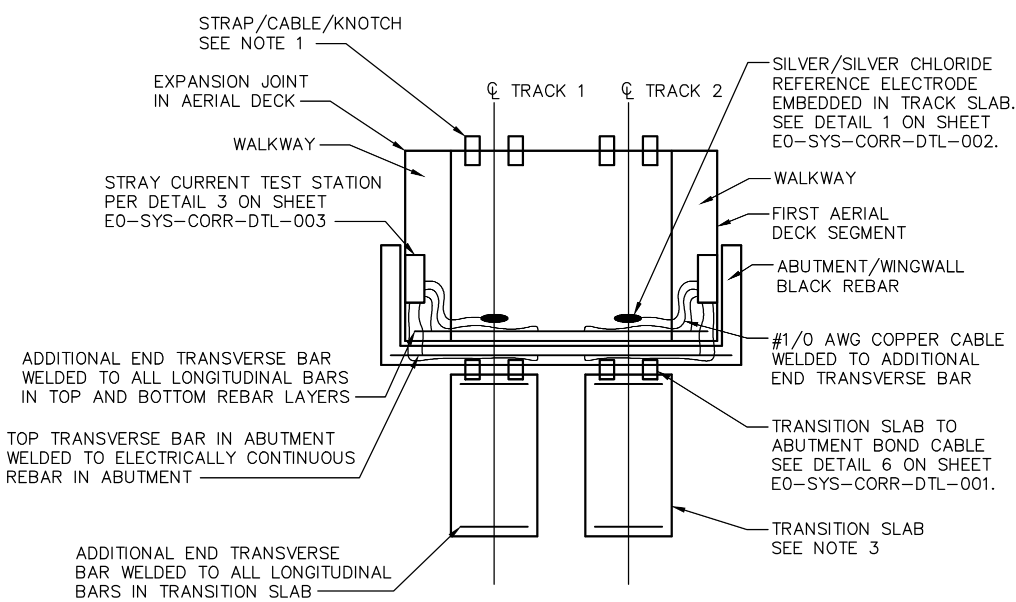
SHEET NAME: E0-SYS-CORR-DTL-011



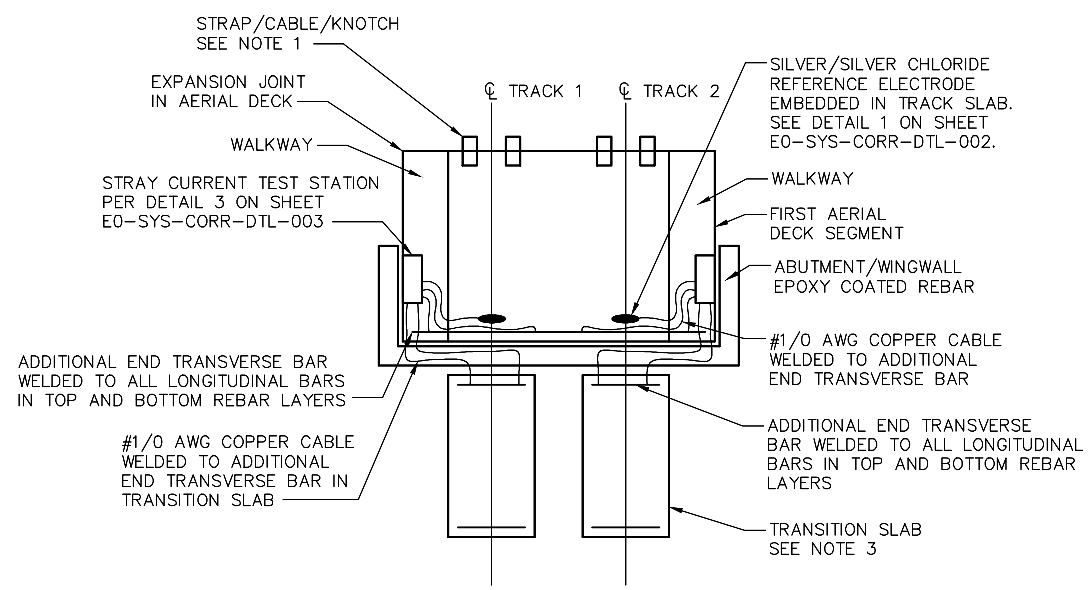
1 AERIAL DECK STRAY CURRENT BOND TEST STATION AT DECK EXPANSION JOINT



2 AERIAL DECK STRAY CURRENT INTERMEDIATE TEST STATION



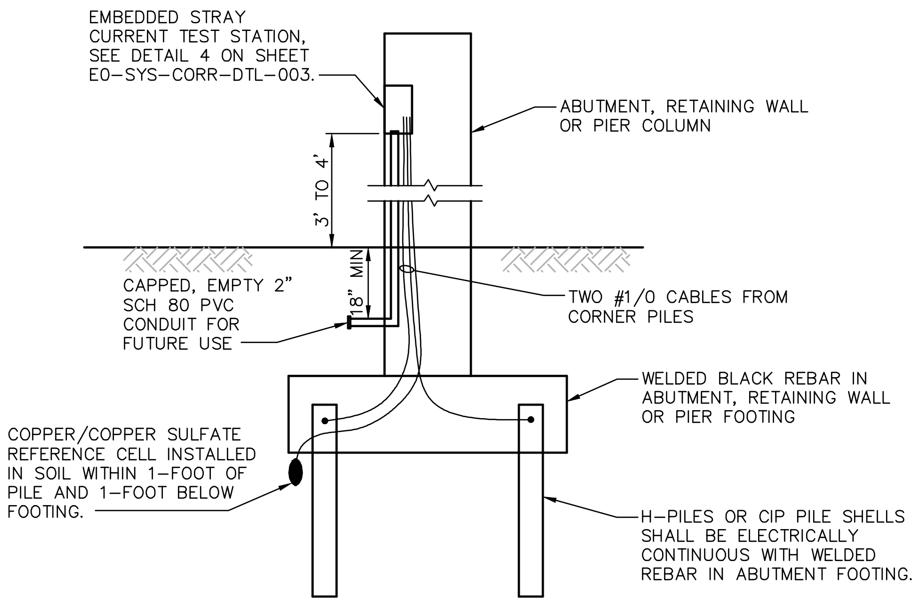
3 AERIAL DECK STRAY CURRENT BOND TEST STATION AT TRACK SLAB/ABUTMENT/ TRANSITION SLAB INTERFACE WELDED REBAR IN ABUTMENT



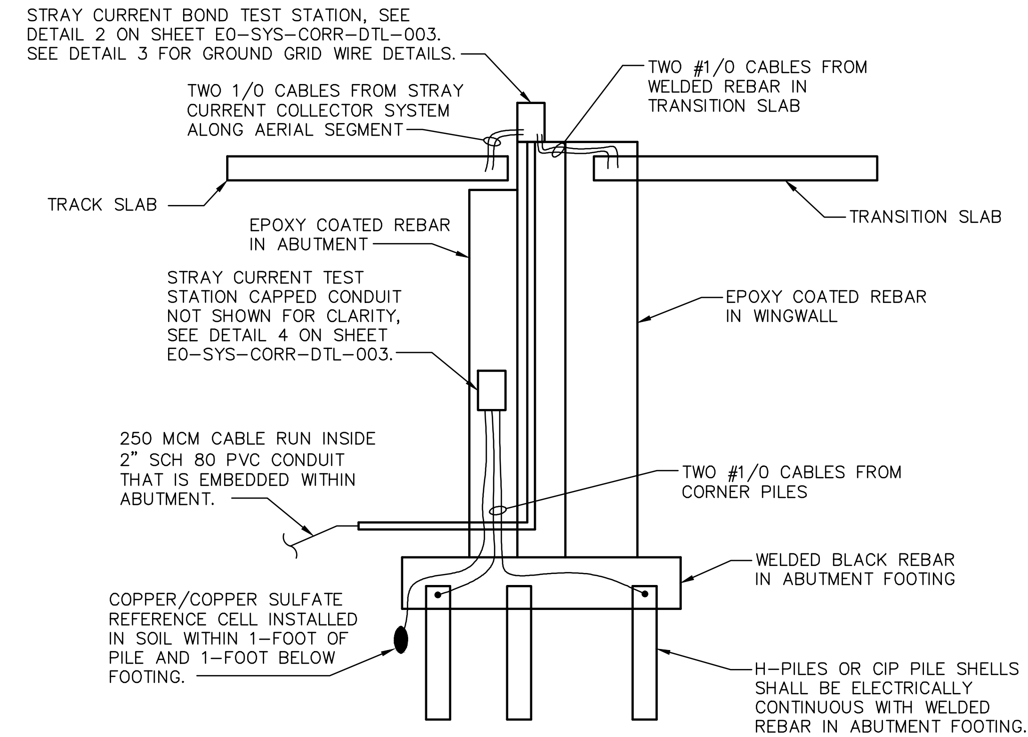
4 AERIAL DECK STRAY CURRENT BOND TEST STATION AT TRACK SLAB/ABUTMENT/ TRANSITION SLAB INTERFACE EPOXY COATED REBAR IN ABUTMENT

NOTES:

1. AT EXPANSION JOINTS ADJACENT TRACK SLABS SHALL BE MADE CONTINUOUS BY INSTALLATION OF TWO BOND CABLE/NOTCHES/STRAPS PER TRACKWAY TRACK SLABS. SEE SHEET E0-SYS-CORR-DTL-001.
2. STRAY CURRENT TEST STATIONS SHALL BE INSTALLED AS SHOWN AT THE LOCATION SHOWN ON THE PROJECT DRAWINGS.
3. REINFORCING STEEL IN THE TRANSITION SLABS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN THE SLAB.



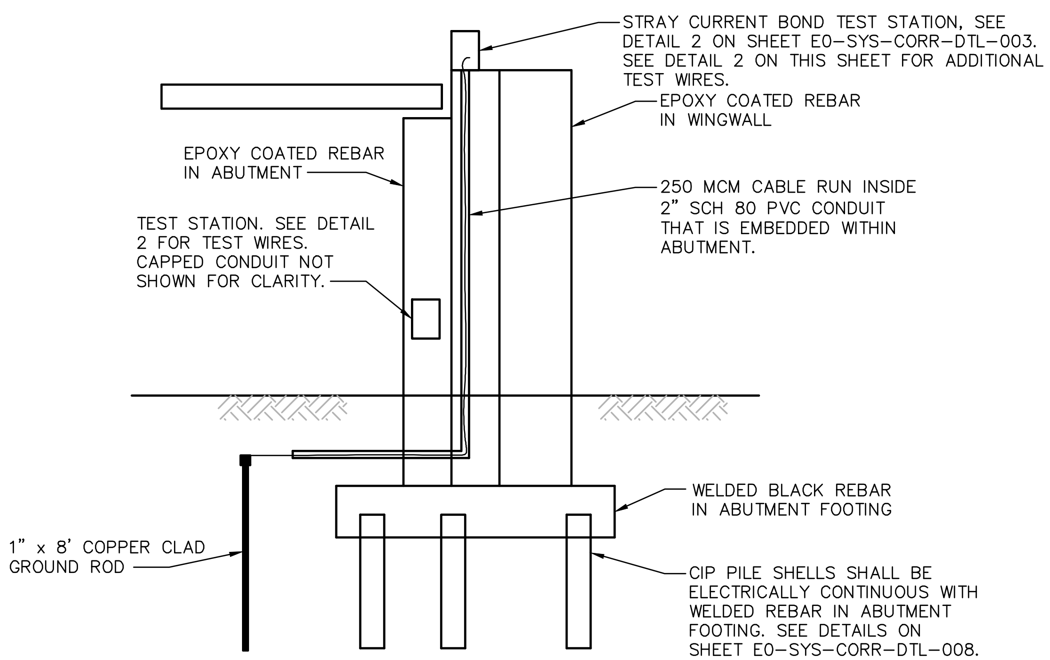
1 EMBEDDED STRAY CURRENT TEST STATION WITH TEST WIRES FROM PILES



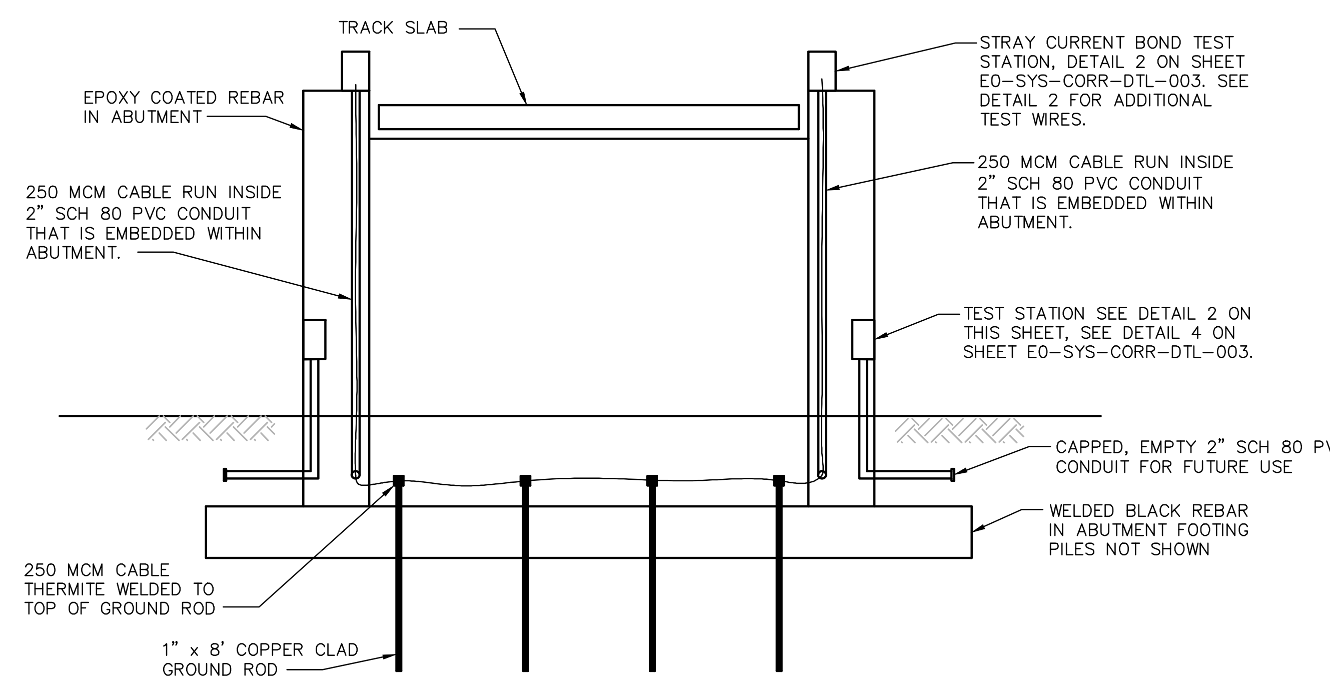
NOTE:

1. ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.

2 STRAY CURRENT GROUND ARRAY – PROFILE VIEW



3 STRAY CURRENT GROUND ARRAY – PROFILE VIEW



4 STRAY CURRENT GROUND ARRAY

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CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 13

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-013

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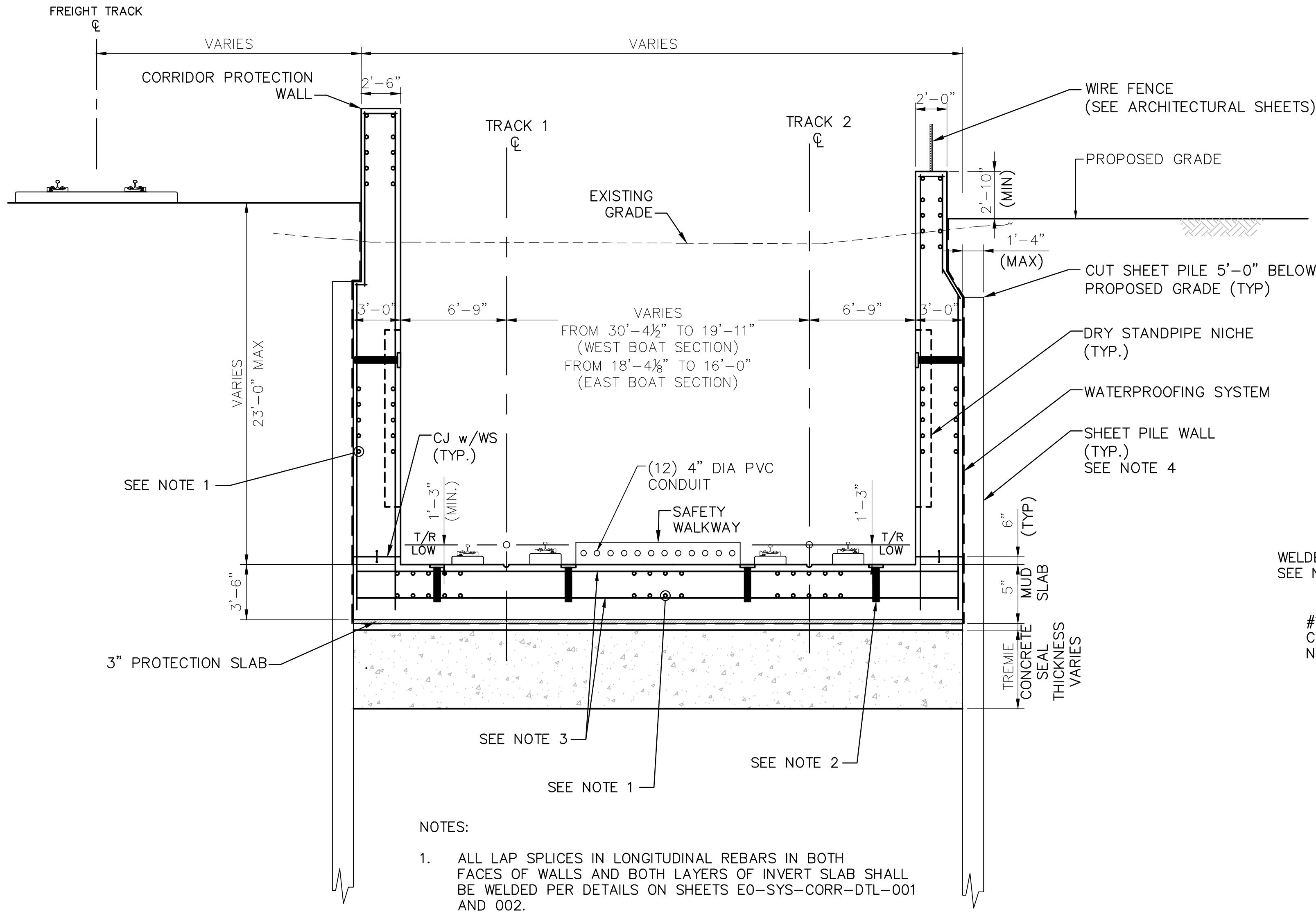
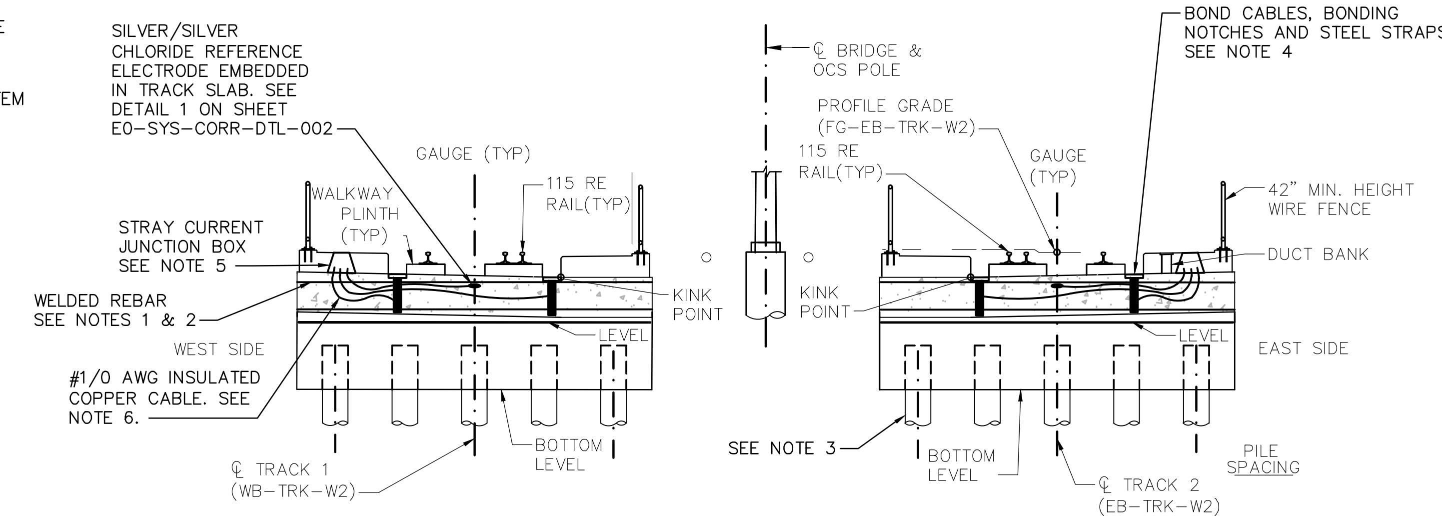
Jan. 15 2016 04:48 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\CORROSION\90% CIVIL PLANS\E0-SYS-CORR-DTL-013.dwg By: mccoolj



NOTES:

1. ALL LAP SPLICES IN LONGITUDINAL REBARS IN BOTH FACES OF WALLS AND BOTH LAYERS OF INVERT SLAB SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 002.
2. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN WALLS AND SLAB PER DETAILS ON SHEET E0-SYS-CORR-DTL-001. AT BOND TEST STATIONS ONLY STEEL STRAPS SHALL BE INSTALLED AND CONTINUITY ACROSS THE EXPANSION JOINT WILL BE PROVIDED BY THE TWO PAIRS OF #1/0 CABLES.
3. ON BOTH SIDES OF EXPANSION JOINTS AND AT END OF STRUCTURE WELD ALL LONGITUDINAL BARS IN THE INNER AND OUTER REBAR LAYERS TO ADDITIONAL END TRANSVERSE COLLECTOR BARS. WELD END TRANSVERSE COLLECTOR BARS TOGETHER IN EACH REBAR LAYER AND FACE PER DETAILS ON SHEET E0-SYS-CORR-DTL-001 TO FORM AN ELECTRICALLY CONTINUOUS CAGE.
4. NON-STRUCTURAL SHEET PILE WALL REQUIRES NO SPECIAL CORROSION CONTROL MEASURES.
5. BLACK REBAR SHALL BE USED IN THE PLINTH BLOCKS. BLACK REBAR IN THE PLINTH BLOCKS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN EACH PLINTH BLOCK AND WITH RESPECT TO THE WELDED BLACK REBAR IN THE INVERT SLAB. SEE DETAIL 2 ON SHEET E0-SYS-CORR-DTL-005.

1 TYPICAL BOAT SECTION



NOTES:

1. ALL LAP SPLICES IN LONGITUDINAL REBARS IN BOTH LAYERS OF DECK SLAB SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 002.
2. ON BOTH SIDES OF EXPANSION JOINTS AND AT END OF STRUCTURE WELD ALL LONGITUDINAL BARS IN BOTH REBAR LAYERS TO ADDITIONAL END TRANSVERSE COLLECTOR BARS. WELD END TRANSVERSE COLLECTOR BARS TOGETHER IN EACH REBAR LAYER PER DETAILS ON SHEET E0-SYS-CORR-DTL-001 TO FORM AN ELECTRICALLY CONTINUOUS CAGE.
3. PILES AND REBAR IN FOOTINGS SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 008.
4. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN DECK SLAB PER DETAILS ON SHEET E0-SYS-CORR-DTL-001.
5. TEST STATIONS AS SHOWN IN DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003 SHALL BE INSTALLED AT THE LOCATIONS SHOWN.
6. #1/0 AWG INSULATED COPPER CABLES SHALL BE THERMITE WELDED TO STEEL STRAPS OR END TRANSVERSE COLLECTOR BARS AND TERMINATED IN JUNCTION BOX LOCATED ALONG WALKWAY.
7. BLACK REBAR SHALL BE USED IN THE PLINTH BLOCKS. BLACK REBAR IN THE PLINTH BLOCKS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN EACH PLINTH BLOCK AND WITH RESPECT TO THE WELDED BLACK REBAR IN THE INVERT SLAB. SEE DETAIL 2 ON SHEET E0-SYS-CORR-DTL-005.

2 TRANSVERSE SECTION

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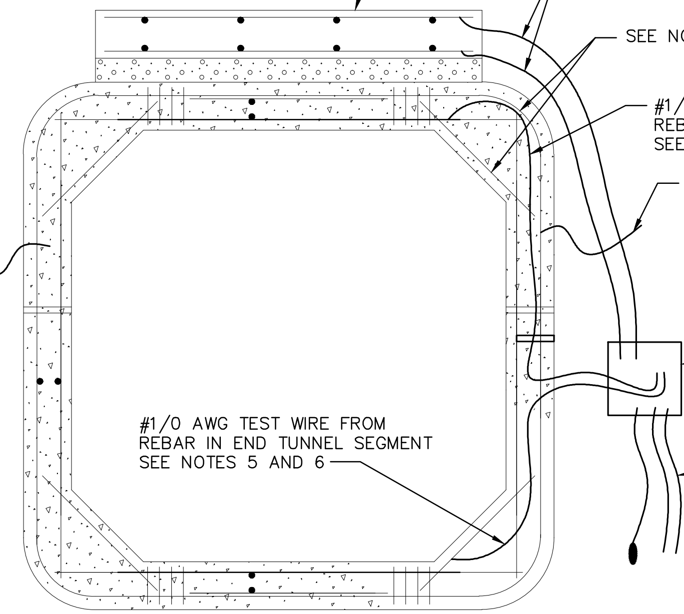
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 14

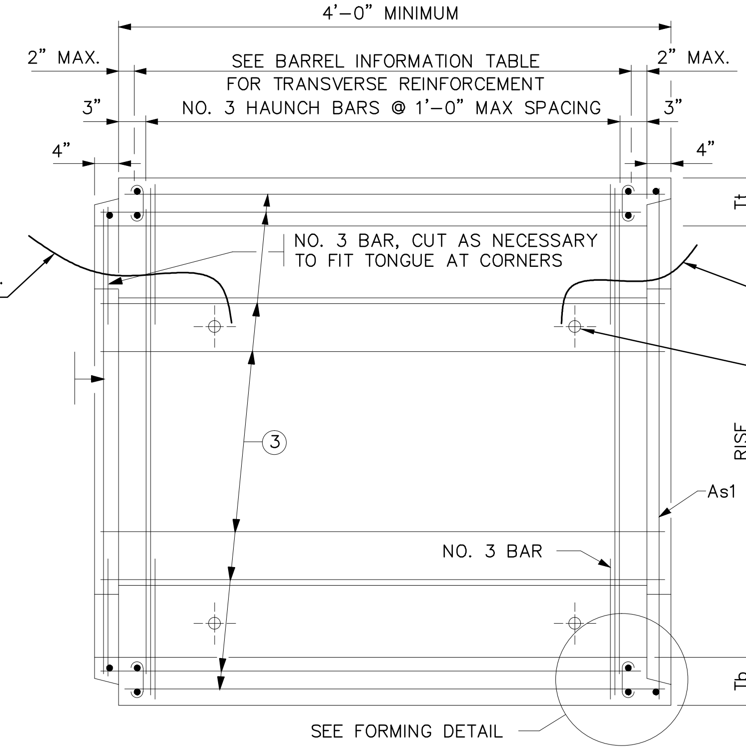
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-014



TRANSVERSE BARREL SECTION

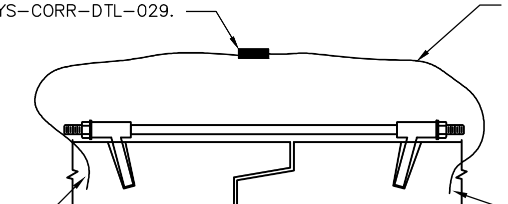
BAR REINFORCEMENT OPTION SHOWN



LONGITUDINAL BARREL SECTION

BAR REINFORCEMENT OPTION SHOWN

1 PRECAST PASSENGER TUNNEL SECTIONS ELECTRICAL CONTINUITY



2 JOINT BOND DETAIL

NOTES:

1. ADD ADDITIONAL TRANSVERSE COLLECTOR BARS IN BOTH REBAR LAYERS IN THE WALLS, FLOOR AND ROOF SLABS OF EACH PRECAST BARREL SECTION.
2. WELD THE ADDITIONAL TRANSVERSE COLLECTOR BARS TO ALL INNER AND OUTER LONGITUDINAL BARS IN THE WALLS, FLOOR AND ROOF SLABS AND TO ADJACENT COLLECTOR BARS TO FORM AN ELECTRICALLY CONTINUOUS CAGE.
3. IN EACH WALL AT EACH END OF EACH PRECAST SEGMENT IN THE AREA OF THE HIDEAWAY TIE ROD CONNECTORS INSTALL ONE #1/0 AWG COPPER CABLE PIGTAIL WITH THWN INSULATION. EACH PIGTAIL SHALL BE THERMITE WELDED OR COMPRESSION CONNECTED TO THE ELECTRICALLY CONTINUOUS INNER AND OUTER LONGITUDINAL BARS/MESH IN THE WALLS. TOTAL OF FOUR CABLES PER TUNNEL SEGMENT.
4. AFTER PLACEMENT OF THE TUNNEL SEGMENTS THE #1/0 PIGTAILS SHALL BE THERMITE WELDED OR COMPRESSION CONNECTED TOGETHER TO PROVIDE ELECTRICAL CONTINUITY BETWEEN SEGMENTS. THE SPLICE CONNECTION SHALL BE COATED PER DETAIL 4 ON SHEET E0-SYS-CORR-DTL-029.
5. AT PEDESTRIAN UNDERPASSES 1 AND 2 AT THE EAST AND WEST ENDS OF THE TUNNEL STRUCTURES INSTALL STRAY CURRENT TEST STATION HOUSING TWO #1/0 COPPER CABLES FROM WELDED REBAR IN PRECAST TUNNEL SEGMENTS.
6. AT PEDESTRIAN UNDERPASS 5 AT THE EAST AND WEST ENDS OF THE TUNNEL STRUCTURE INSTALL STRAY CURRENT TEST STATION HOUSING TWO #1/0 COPPER CABLES FROM WELDED REBAR IN PRECAST TUNNEL SEGMENTS (WHITE INSULATION), TWO #1/0 COPPER CABLES FROM WELDED REBAR IN TUNNEL WALL (BLACK INSULATION), TWO #4 AWG CABLES FROM WELDED REBAR IN DISTRIBUTION SLAB AND TWO #22 WIRES FROM REFERENCE ELECTRODE EMBEDDED IN TUNNEL WALL FOOTING. LEAVE #4 CABLES FROM DISTRIBUTION SLAB COILED INSIDE STRAY CURRENT TEST STATION.
7. BLACK REBAR IN DISTRIBUTION SLAB (IF PRESENT) SHALL BE MADE ELECTRICALLY CONTINUOUS AND TWO #4 AWG TEST WIRES FROM THE CONTINUOUS REBAR IN THE DISTRIBUTION SLAB SHALL BE TERMINATED IN THE STRAY CURRENT BOND TEST STATIONS LOCATED AT THE EAST AND WEST ENDS OF THE TUNNEL.

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CIVIL - VOLUME 12
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STRAY CURRENT CONTROL DETAILS 15

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-015

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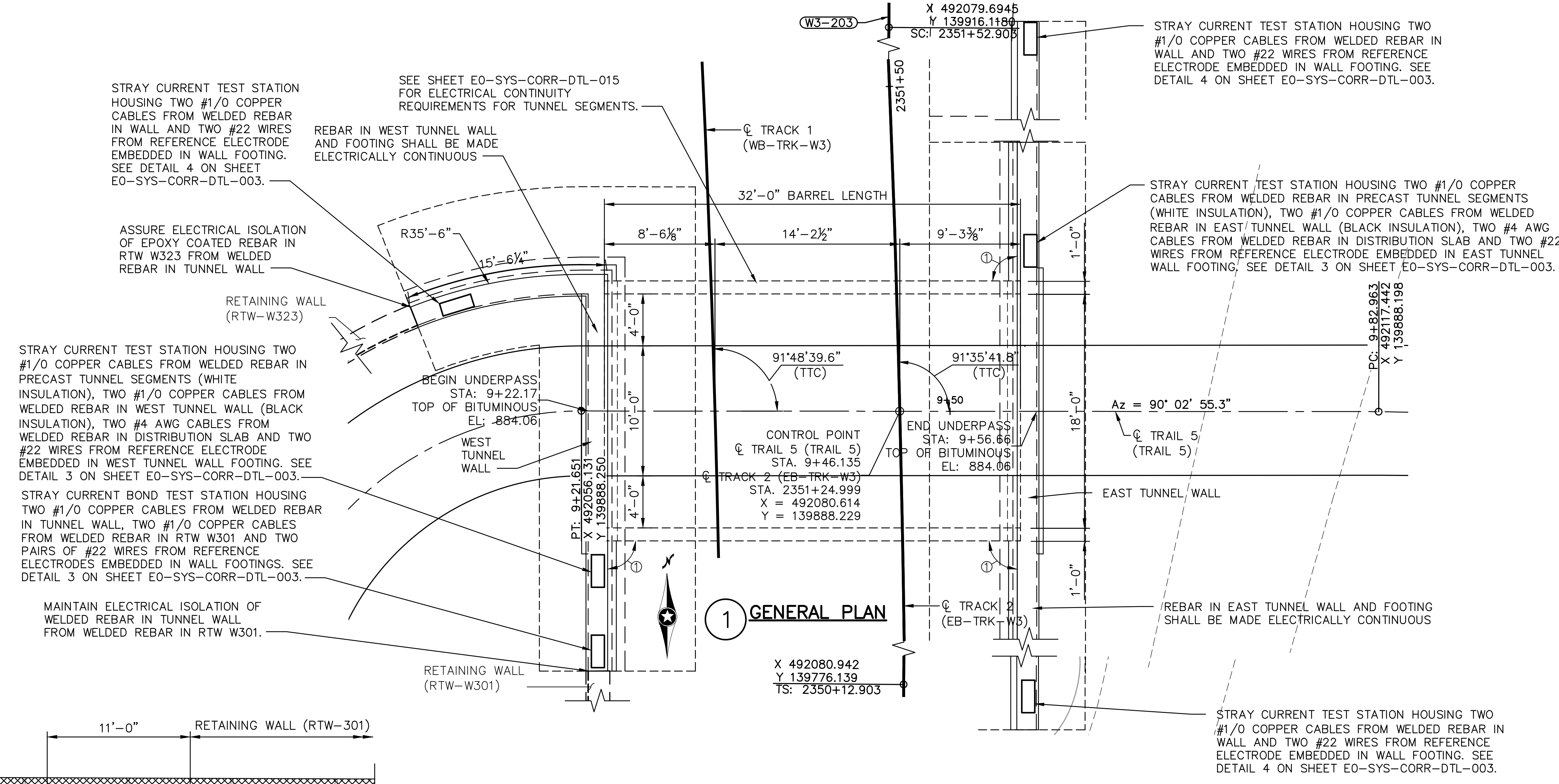
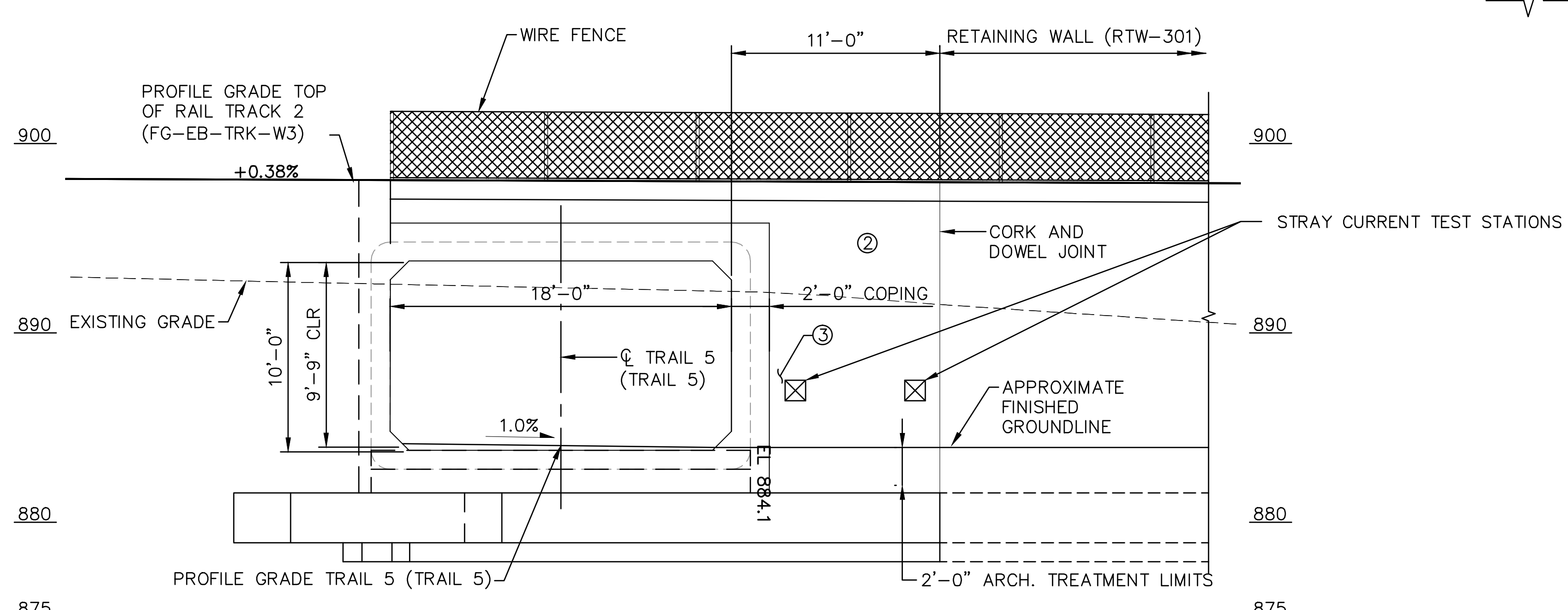


1 GENERAL PLAN



2 GENERAL ELEVATION (LOOKING EAST)

NOTE:

ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.

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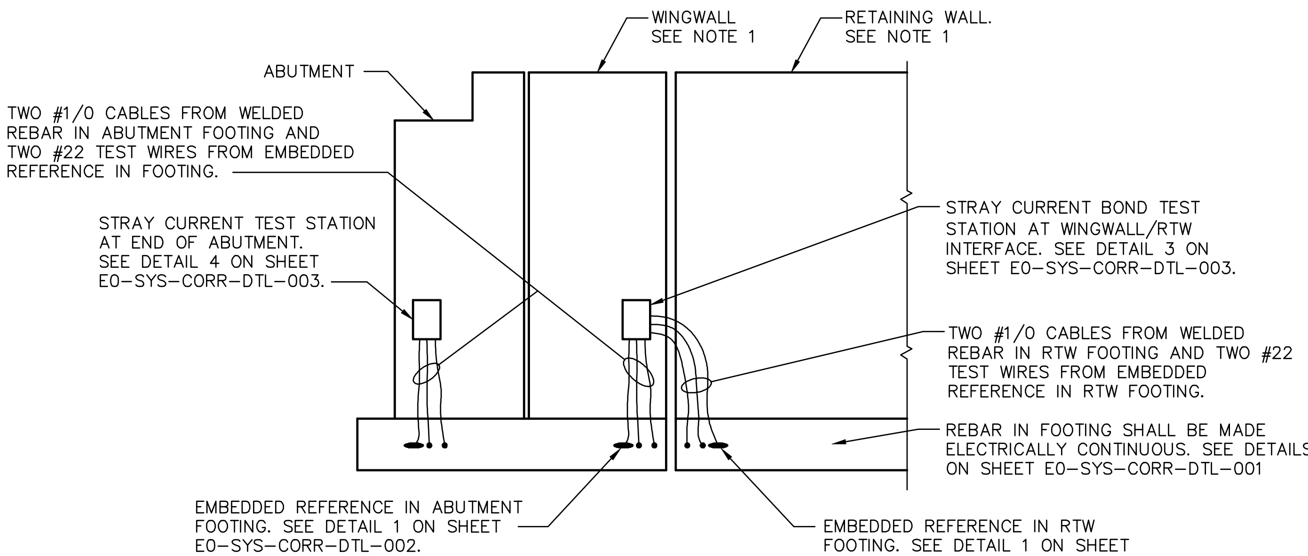
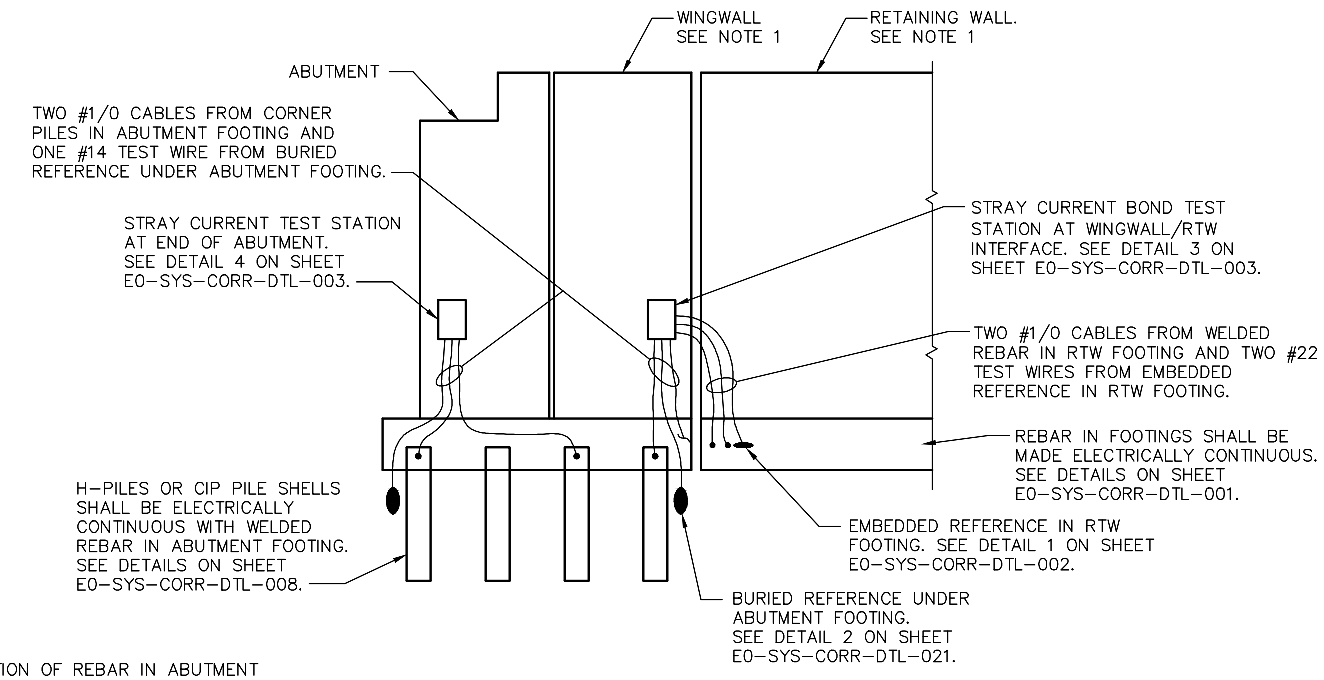
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 16

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-016



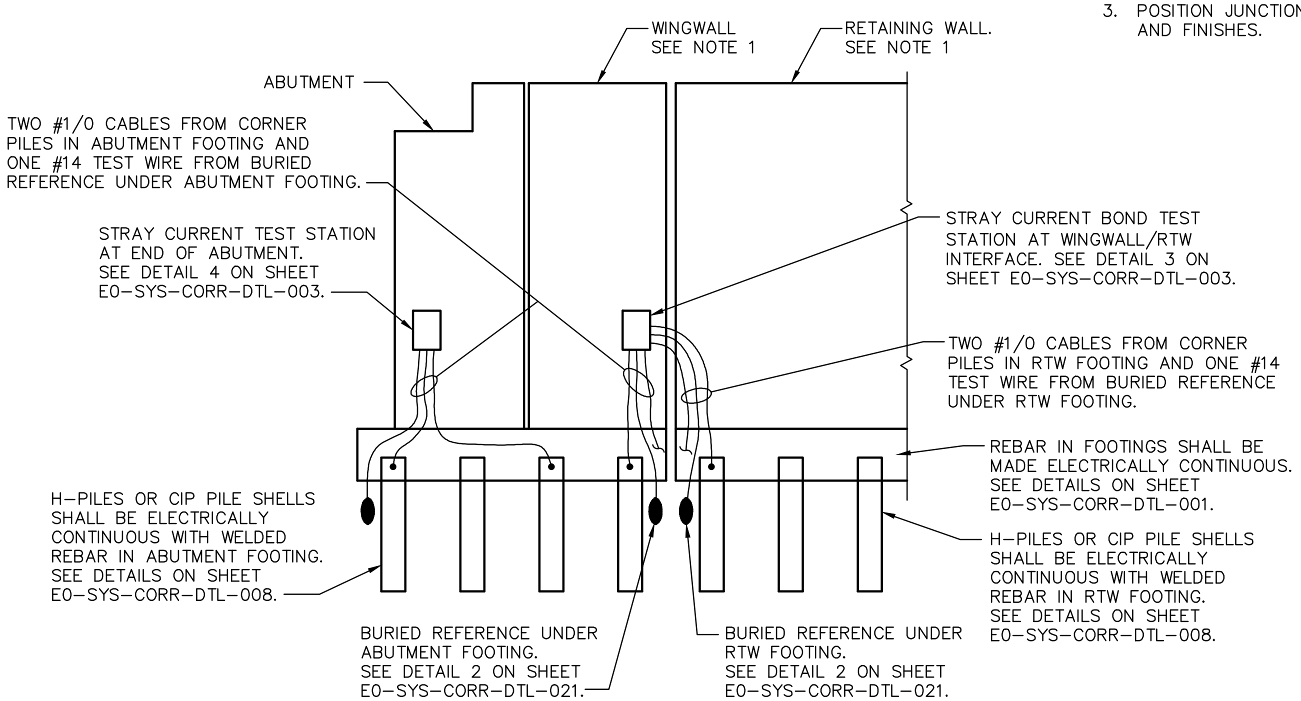
1 DETAIL 1



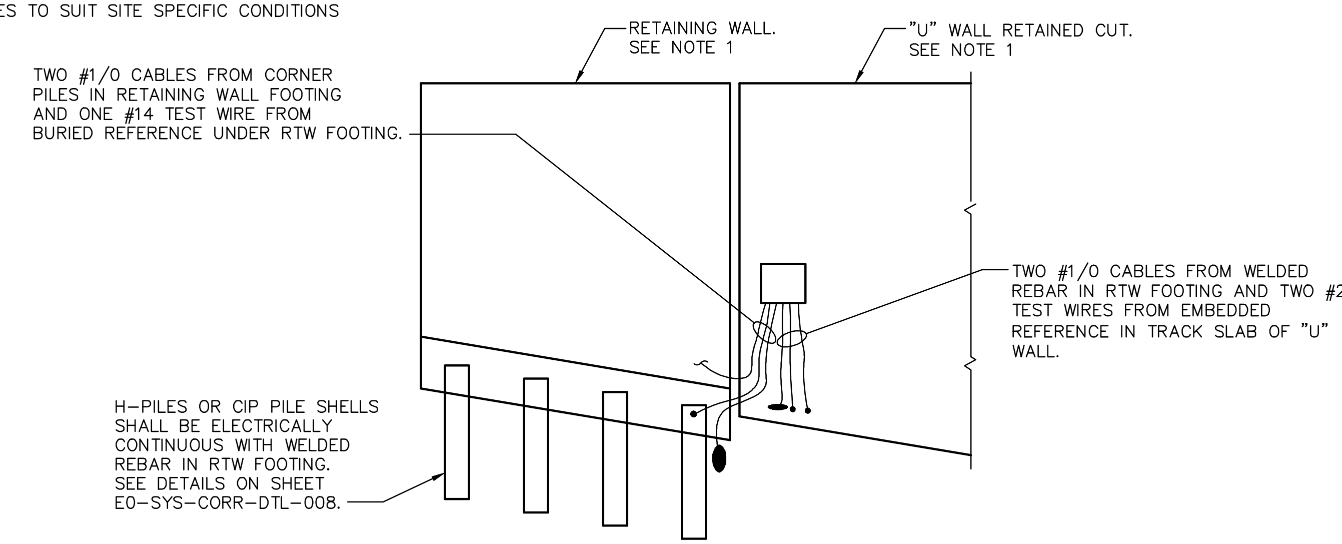
2 DETAIL 2

NOTE:

1. MAINTAIN ELECTRICAL ISOLATION OF REBAR IN ABUTMENT WINGWALL AND FOOTING FROM REBAR IN ADJACENT RETAINING WALL AND FOOTING.
2. ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.
3. POSITION JUNCTION BOXES TO SUIT SITE SPECIFIC CONDITIONS AND FINISHES.



3 DETAIL 3



4 DETAIL 4

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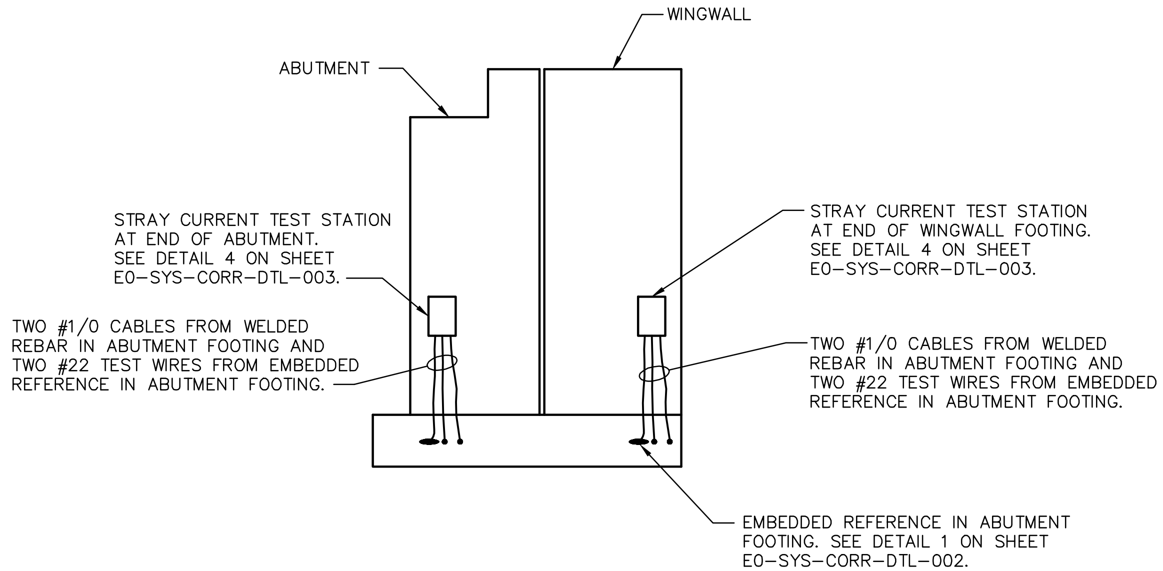
SOUTHWEST Green Line LRT Extension

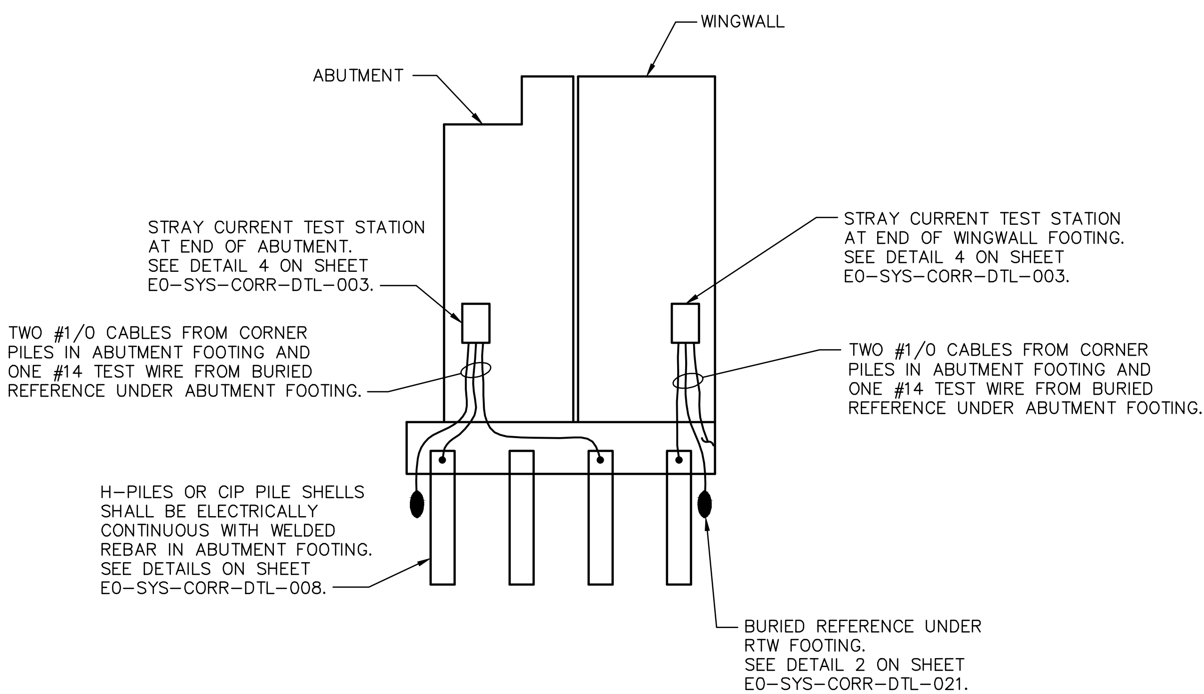
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 17

DISCIPLINE: CORR

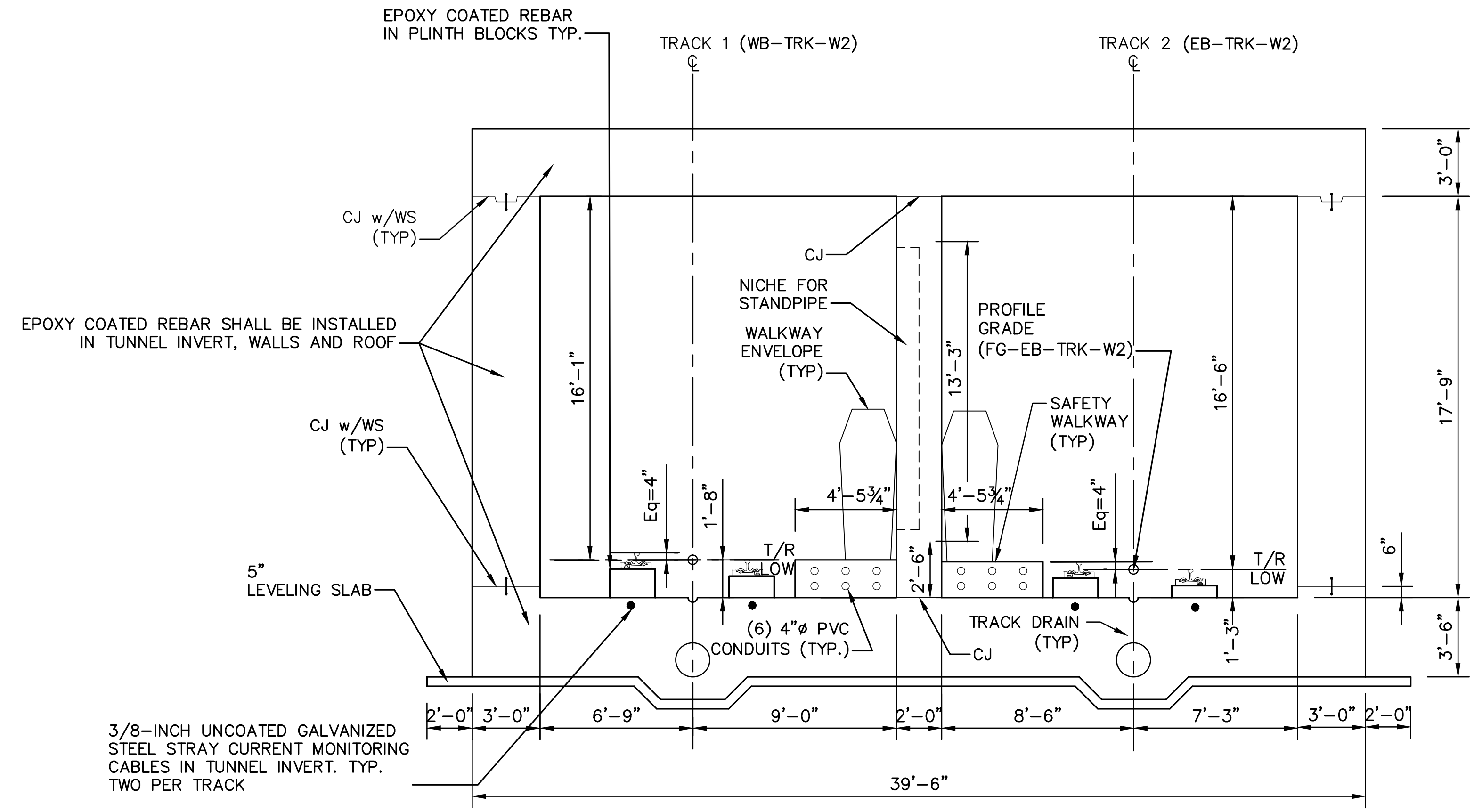
SHEET NAME: E0-SYS-CORR-DTL-017



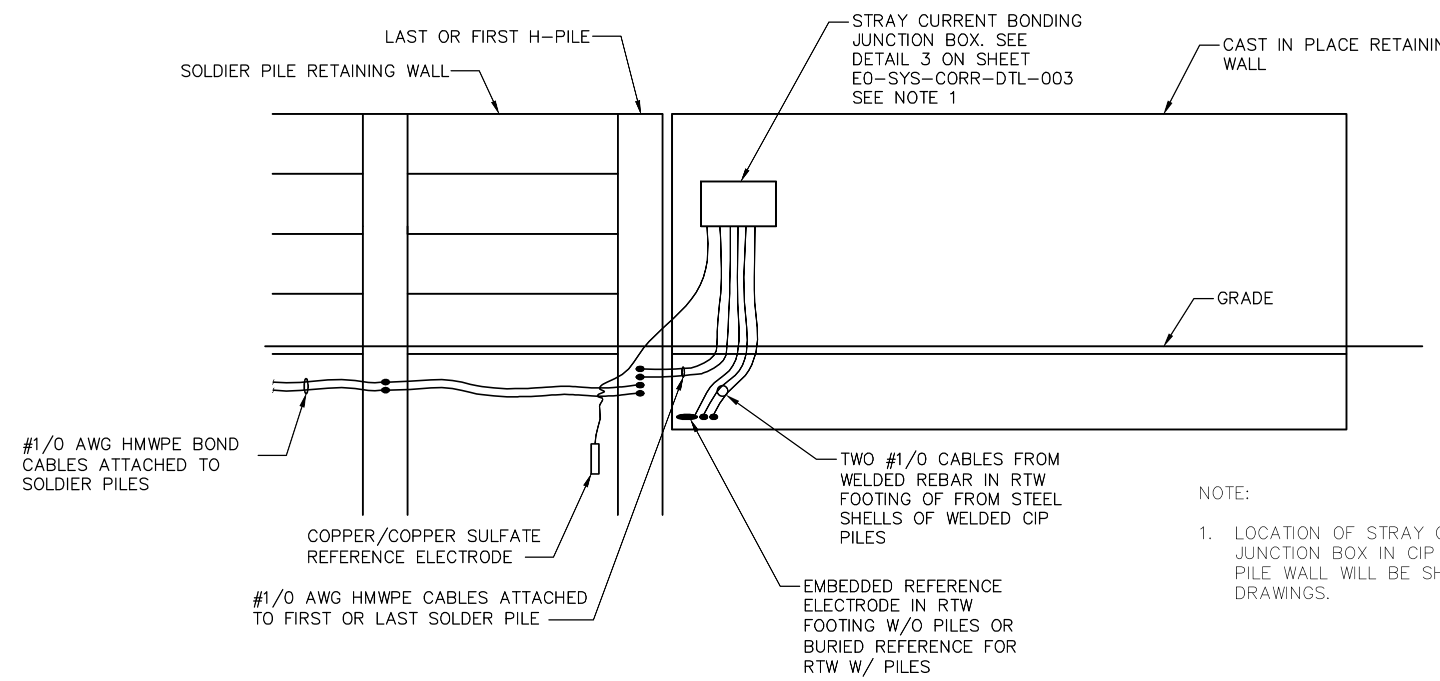
1 DETAIL 1



2 DETAIL 2



3 TYPICAL TUNNEL TH62 CROSS SECTION



NOTE:

1. LOCATION OF STRAY CURRENT BONDING JUNCTION BOX IN CIP WALL OR ON SOLDIER PILE WALL WILL BE SHOWN ON PROJECT DRAWINGS.

4 TEST STATION AT SOLDIER PILE/CIP RTW INTERFACE

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CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 18

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-018

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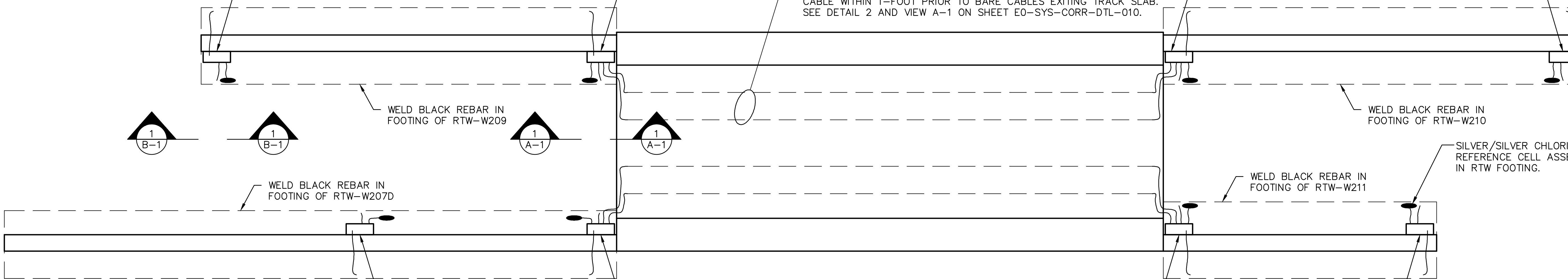
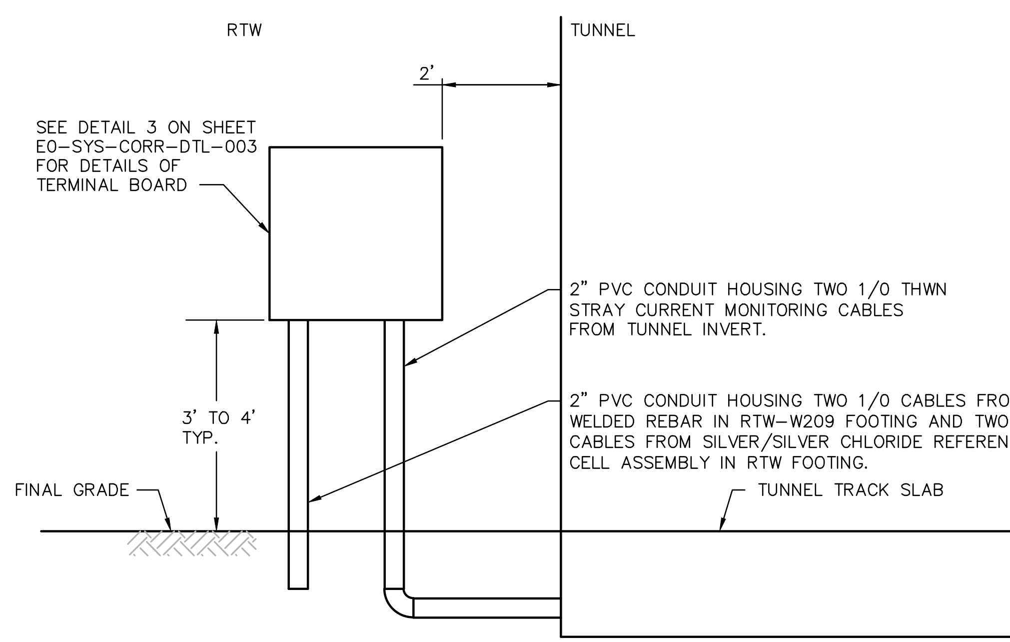
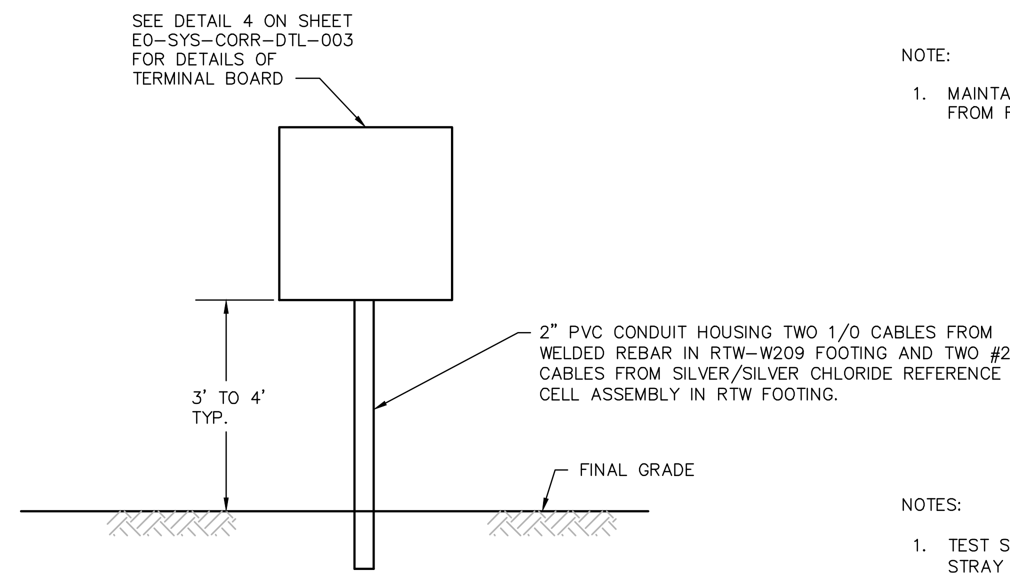


1 TUNNEL TH62 PLAN VIEW



1 A-1 STRAY CURRENT BOND TEST STATION



1 B-1 STRAY CURRENT TEST STATION

NOTE:

1. MAINTAIN ELECTRICAL ISOLATION OF REBAR IN TUNNEL FROM REBAR IN ADJACENT RETAINING WALLS.

NOTES:

1. TEST STATION SHALL HOUSE TWO #1/0 THWN CABLES FROM STRAY CURRENT MONITORING CABLES IN TUNNEL INVERT, TWO #1/0 CABLES FROM WELDED REBAR IN RTW FOOTING AND TWO #22 CABLES FROM SILVER/SILVER CHLORIDE REFERENCE CELL ASSEMBLY IN RTW FOOTING.
2. TEST STATION SHALL HOUSE TWO #1/0 CABLES FROM WELDED REBAR IN RTW FOOTING AND TWO #22 CABLES FROM SILVER/SILVER CHLORIDE REFERENCE CELL ASSEMBLY IN RTW FOOTING.

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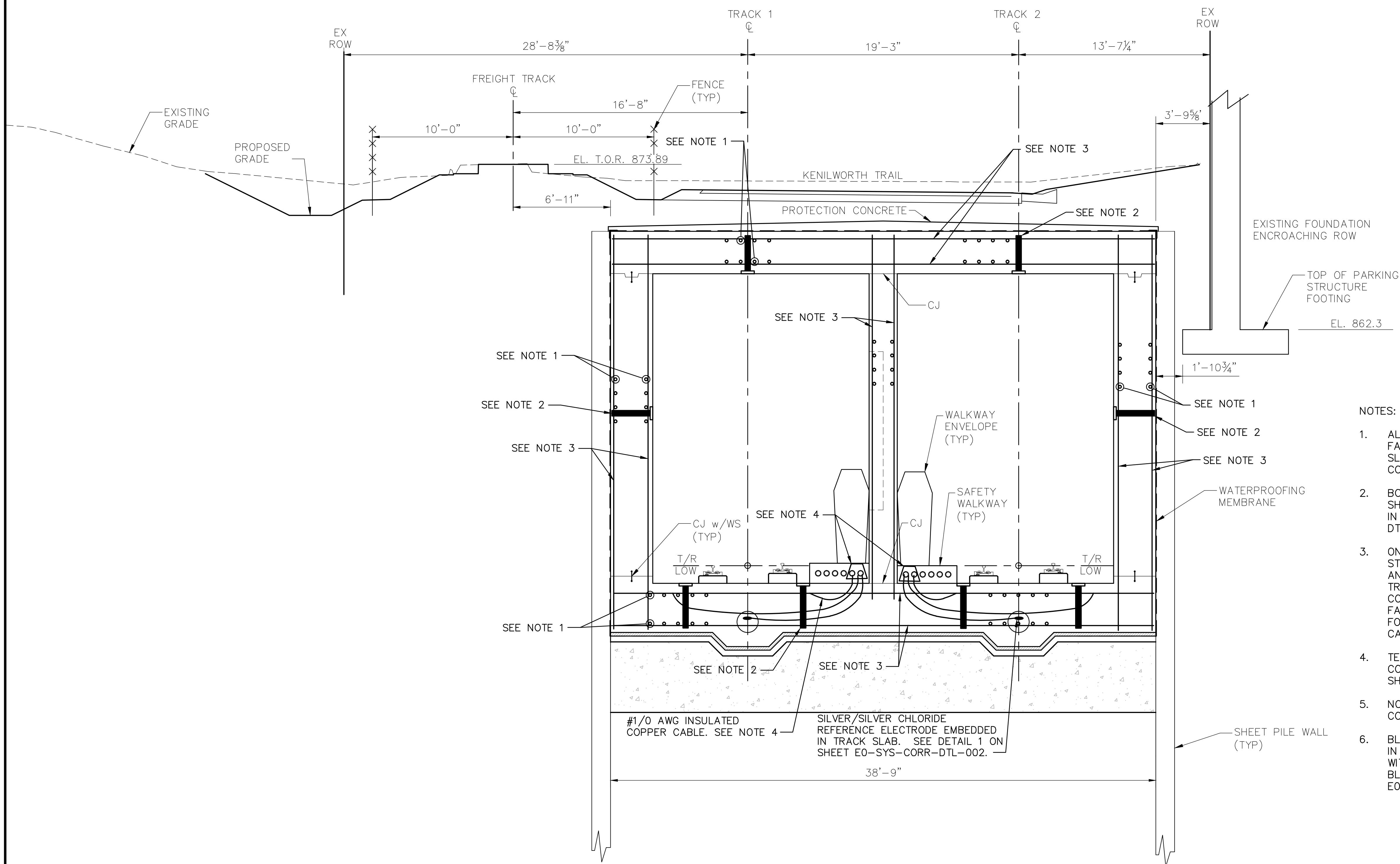
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 19

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-019



1 TYPICAL TUNNEL SECTION BONDING/TEST STATION DETAIL

NOTES:

1. ALL LAPS SPLICES IN LONGITUDINAL REBARS IN BOTH FACES OF WALLS AND BOTH LAYERS OF ROOF AND INVERT SLAB SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 002.
2. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN WALLS, ROOF AND SLAB PER DETAILS ON SHEET E0-SYS-CORR-DTL-001.
3. ON BOTH SIDES OF EXPANSION JOINTS AND AT END OF STRUCTURE WELD ALL LONGITUDINAL BARS IN THE INNER AND OUTER REBAR LAYERS TO ADDITIONAL END TRANSVERSE COLLECTOR BARS. WELD END TRANSVERSE COLLECTOR BARS TOGETHER IN EACH REBAR LAYER AND FACE PER DETAILS ON SHEET E0-SYS-CORR-DTL-001 TO FORM ELECTRICALLY CONTINUOUS INNER AND OUTER REBAR CAGES.
4. TEST STATIONS AS SHOWN IN DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003 SHALL BE INSTALLED AT THE LOCATIONS SHOWN.
5. NON-STRUCTURAL SHEET PILE WALL REQUIRES NO SPECIAL CORROSION CONTROL MEASURES.
6. BLACK REBAR SHALL BE USED IN THE PLINTH BLOCKS. BLACK REBAR IN THE PLINTH BLOCKS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN EACH PLINTH BLOCK AND WITH RESPECT TO THE WELDED BLACK REBAR IN THE INVERT SLAB. SEE DETAIL 2 ON SHEET E0-SYS-CORR-DTL-005.

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DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-020

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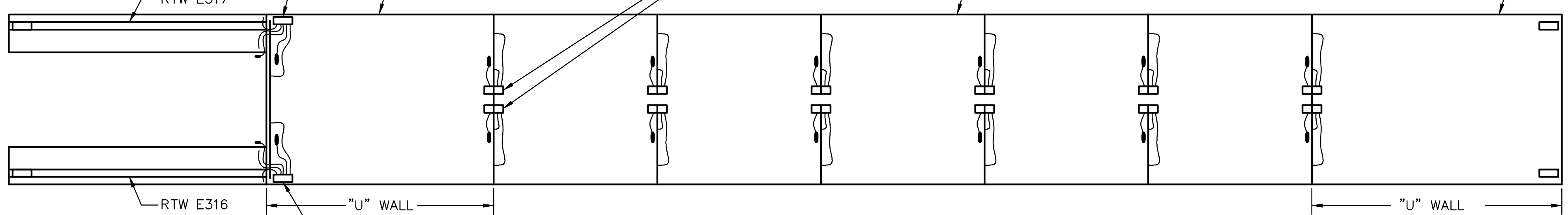

1 DETAILS KENILWORTH TUNNEL STRAY CURRENT MONITORING SYSTEM

NOTES:

1. ALL LAP SPLICES IN LONGITUDINAL REBARS IN BOTH FACES OF WALLS AND BOTH LAYERS OF ROOF AND INVERT SLAB OF TUNNEL AND ALL LAP SPLICES IN LONGITUDINAL REBARS IN BOTH FACES OF WALLS AND BOTH LAYERS OF INVERT SLAB OF RETAINED CUT SECTION SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 002.
2. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN WALLS, ROOF AND SLAB PER DETAILS ON SHEET E0-SYS-CORR-DTL-001, 014 AND 020.
3. ON BOTH SIDES OF EXPANSION JOINTS AND AT END OF STRUCTURE WELD ALL LONGITUDINAL BARS IN THE INNER AND OUTER REBAR LAYERS TO ADDITIONAL END TRANSVERSE COLLECTOR BARS. WELD END TRANSVERSE COLLECTOR BARS TOGETHER IN EACH REBAR LAYER AND FACE PER DETAILS ON SHEET E0-SYS-CORR-DTL-001 TO FORM ELECTRICALLY CONTINUOUS INNER AND OUTER REBAR CAGES.
4. TEST STATIONS AS SHOWN IN DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003 SHALL BE INSTALLED AT THE LOCATIONS SHOWN.
5. NON-STRUCTURAL SHEET PILE WALL REQUIRES NO SPECIAL CORROSION CONTROL MEASURES.
6. BLACK REBAR SHALL BE USED IN THE PLINTH BLOCKS. BLACK REBAR IN THE PLINTH BLOCKS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN EACH PLINTH BLOCK AND WITH RESPECT TO THE WELDED BLACK REBAR IN THE INVERT SLAB. SEE DETAIL 2 ON SHEET E0-SYS-CORR-DTL-005.

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STRAY CURRENT CONTROL DETAILS 21

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SHEET NAME: E0-SYS-CORR-DTL-021

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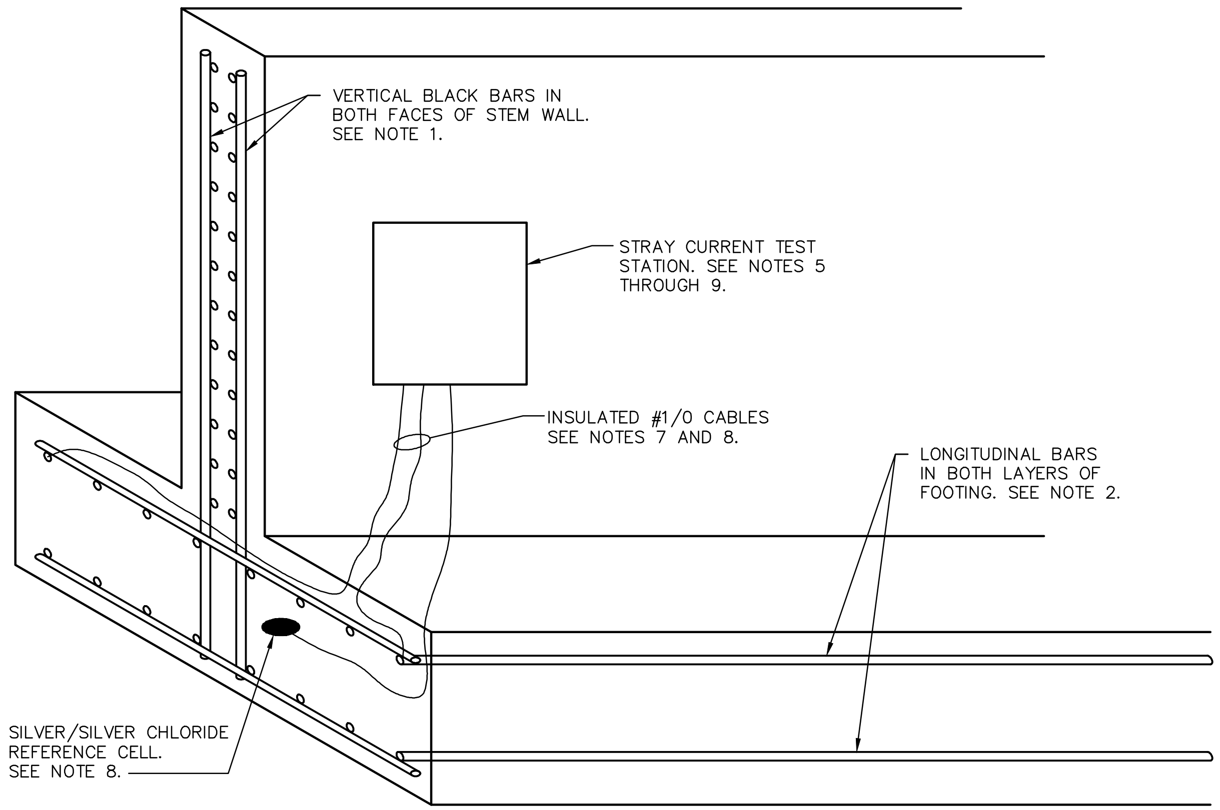
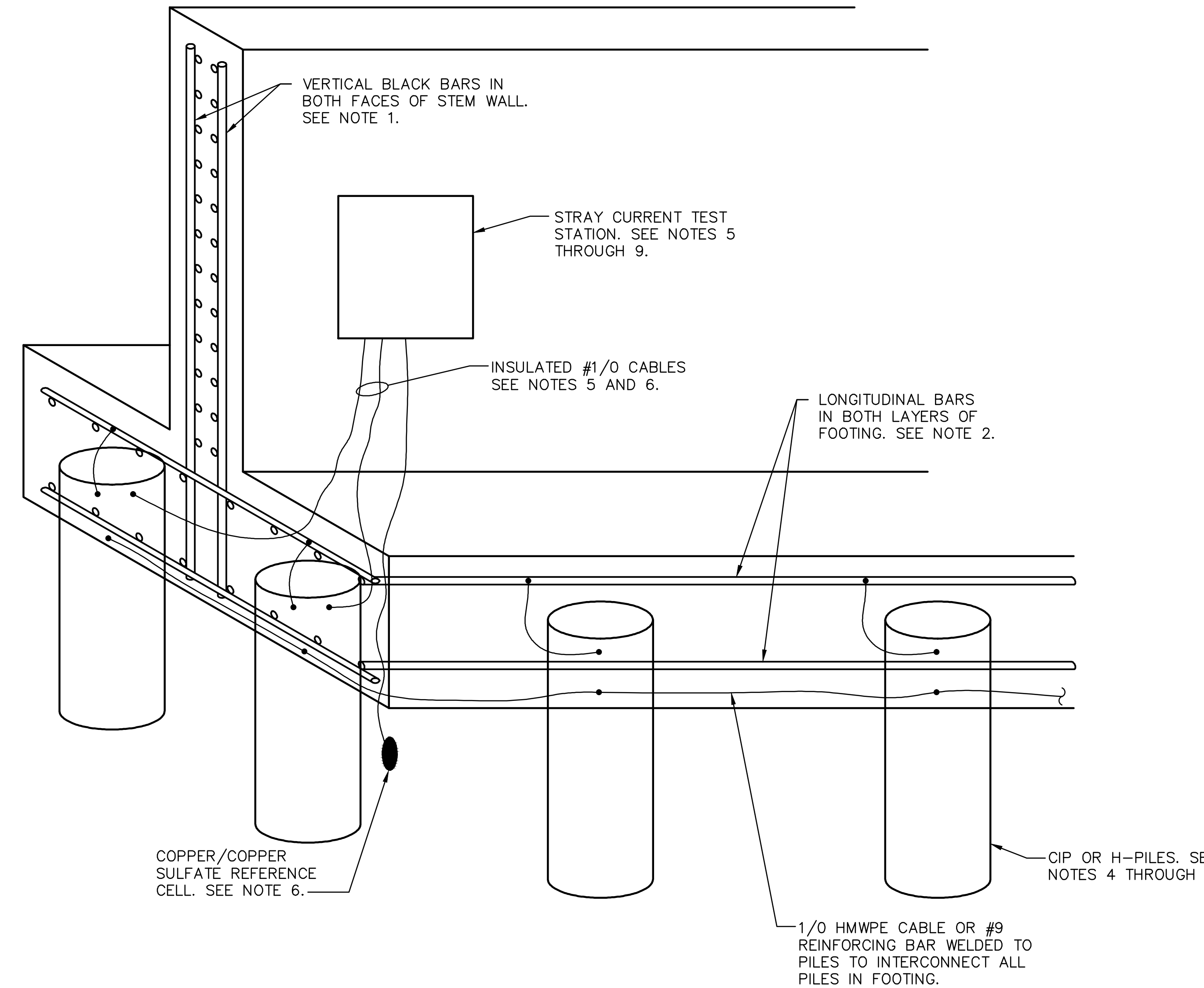


1 RETAINING WALL NO PILES



2 RETAINING WALL WITH PILES

NOTES:

1. IF BLACK REBAR IS PRESENT IN STEM WALL, THEN ALL LAP SPLICES IN LONGITUDINAL BARS IN BOTH FACES OF STEM WALL SHALL BE WELDED. ADDITIONAL VERTICAL TRANSVERSE COLLECTOR BARS SHALL BE INSTALLED AT EACH END OF THE RTW, AT EACH STRAY CURRENT TEST STATION AND ON EACH SIDE OF EXPANSION TYPE JOINTS IN THE STEM WALL/FOOTING. THE VERTICAL COLLECTOR BARS ARE TO BE WELDED TO ALL LONGITUDINAL BARS IN THE STEM WALL AND TO THE HORIZONTAL COLLECTOR BARS IN THE FOOTING.
2. WELD ALL LAP SPLICES IN LONGITUDINAL BARS IN BOTH LAYERS OF FOOTING. ADDITIONAL HORIZONTAL TRANSVERSE COLLECTOR BARS SHALL BE INSTALLED AT EACH END OF THE RTW, AT EACH STRAY CURRENT TEST STATION AND ON EACH SIDE OF EXPANSION TYPE JOINTS IN THE STEM WALL/FOOTING. THE HORIZONTAL COLLECTOR BARS ARE TO BE WELDED TO ALL LONGITUDINAL BARS IN THE FOOTING AND TO THE VERTICAL COLLECTOR BARS IN THE STEM WALL (IF PRESENT).
3. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN WALLS/FOOTINGS PER DETAILS ON SHEET E0-SYS-CORR-DTL-001. AT BOND TEST STATIONS ONLY STEEL STRAPS SHALL BE INSTALLED AND CONTINUITY ACROSS THE EXPANSION JOINT WILL BE PROVIDED BY THE TWO PAIRS OF #1/0 CABLES. SEE DETAIL 3 ON SHEET E0-SYS-CORR-DTL-003.
4. AT FOOTINGS WITH STRUCTURAL CIP PILE SHELLS OR H-PILES, THE PILE SHELLS OR H-PILES SHALL BE MADE ELECTRICALLY CONTINUOUS WITH THE WELDED REBAR IN THE FOOTING PER DETAILS ON SHEET E0-SYS-CORR-DTL-008.
5. IF PILES ARE PRESENT IN THE RTW FOOTING, THEN THERMITE WELD #1/0 CABLES TO THE CORNER PILE AND TERMINATE TEST WIRES IN AN EMBEDDED OR SURFACE MOUNTED STRAY CURRENT JUNCTION BOX. SEE DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003.
6. IF PILES ARE PRESENT IN THE RTW FOOTING, THEN A COPPER/COPPER SULFATE REFERENCE CELL SHALL BE INSTALLED IN THE SOIL WITHIN 1-FOOT OF THE CORNER PILE 1-FOOT BELOW THE BOTTOM OF THE FOOTING. THE #14 TEST WIRE SHALL BE TERMINATED IN THE SAME TEST STATION REFERENCED IN NOTE 5.
7. IF PILES ARE NOT PRESENT IN THE RTW FOOTING, THEN THERMITE WELD #1/0 CABLES TO HORIZONTAL COLLECTOR BAR IN FOOTING AND TERMINATE TEST WIRES IN AN EMBEDDED OR SURFACE MOUNTED STRAY CURRENT JUNCTION BOX. SEE DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003.
8. IF PILES ARE NOT PRESENT IN THE RTW FOOTING, THEN A SILVER-SILVER CHLORIDE REFERENCE CELL SHALL BE INSTALLED EMBEDDED IN THE FOOTING. THE #22 TEST WIRES SHALL BE TERMINATED IN THE SAME TEST STATION REFERENCED IN NOTE 7. SEE DETAIL 1 ON SHEET E0-SYS-CORR-DTL-002.
9. FLUSH MOUNT TEST BOXES ARE TO BE INSTALLED WITH A MINIMUM OF 12-INCHES OF CONCRETE BETWEEN THE TOP OR END OF THE WALL AND ANY SIDE OF THE JUNCTION BOX.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 22

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-022

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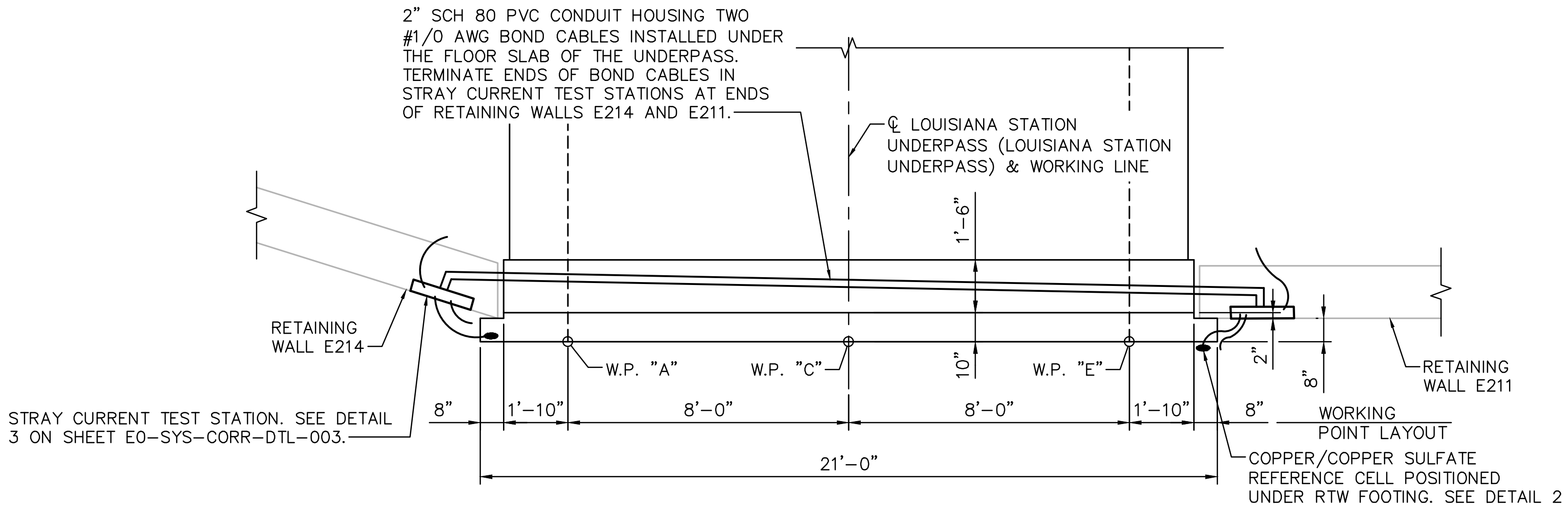
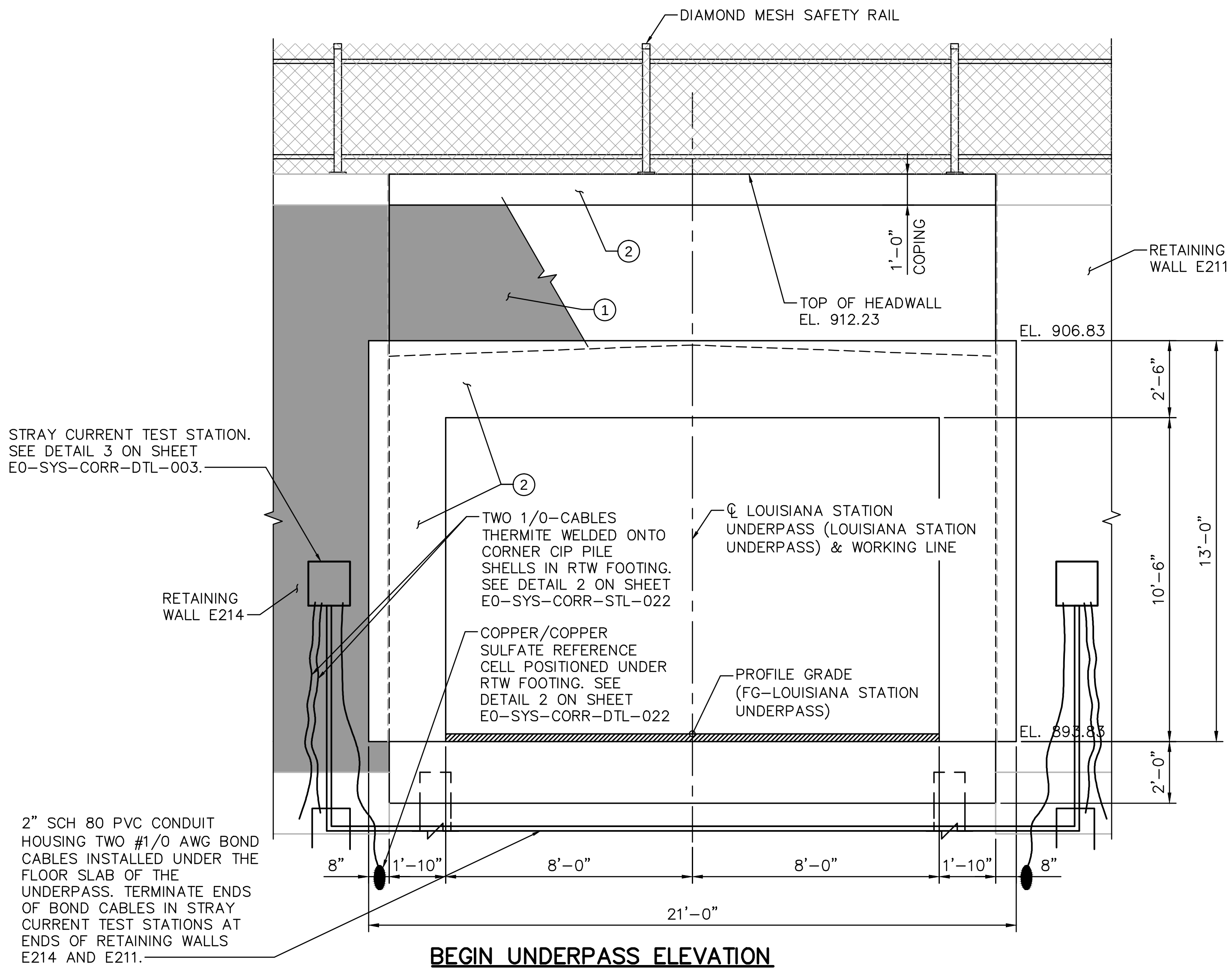
Jan. 15 2016 05:04 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\CORROSION\90% CIVIL PLANS\E0-SYS-CORR-DTL-022.dwg By: mccoolj



BEGIN UNDERPASS PLAN



BEGIN UNDERPASS ELEVATION

NOTES:

1. ALL REBAR IN UNDERPASS BRIDGE R0690 AND IN RETAINING WALLS E215 AND E216 SHALL BE EPOXY COATED AND SECURED WITH NON-METALLIC OR NON-METALLIC COATED TIES.
2. NO SPECIAL MEASURES ARE REQUIRED IN REGARD TO THE PILES IN UNDERPASS BRIDGE R0690 AND IN RETAINING WALLS E215 AND E216.
3. ELECTRICAL ISOLATION SHALL BE MAINTAINED BETWEEN EMBEDDED STEEL ELEMENTS IN THE UNDERPASS BRIDGE AND EMBEDDED STEEL ELEMENTS IN RETAINING WALLS E214 AND E211.
4. ALL REBAR IN RETAINING WALLS E214 AND E211 SHALL BE BLACK BAR AND MADE ELECTRICALLY CONTINUOUS WITHIN STEM WALL AND FOOTING AS SHOWN IN DETAIL 4 ON SHEET E0-SYS-CORR-DTL-001 AND IN DETAIL 2 ON SHEET E0-SYS-CORR-DTL-022.
5. ALL PILES IN RETAINING WALLS E214 AND E211 SHALL BE ELECTRICALLY INTERCONNECTED AND MADE ELECTRICALLY CONTINUOUS WITH THE WELDED REBAR IN THE FOOTINGS AS SHOWN IN DETAILS 2 AND 4 ON SHEET E0-SYS-CORR-DTL-008 AND IN DETAIL 2 ON SHEET E0-SYS-CORR-DTL-022.
6. MAXIMUM HEIGHT OF TEST STATION JUNCTION BOX SHALL BE 42-INCHES ABOVE FINAL GRADE.

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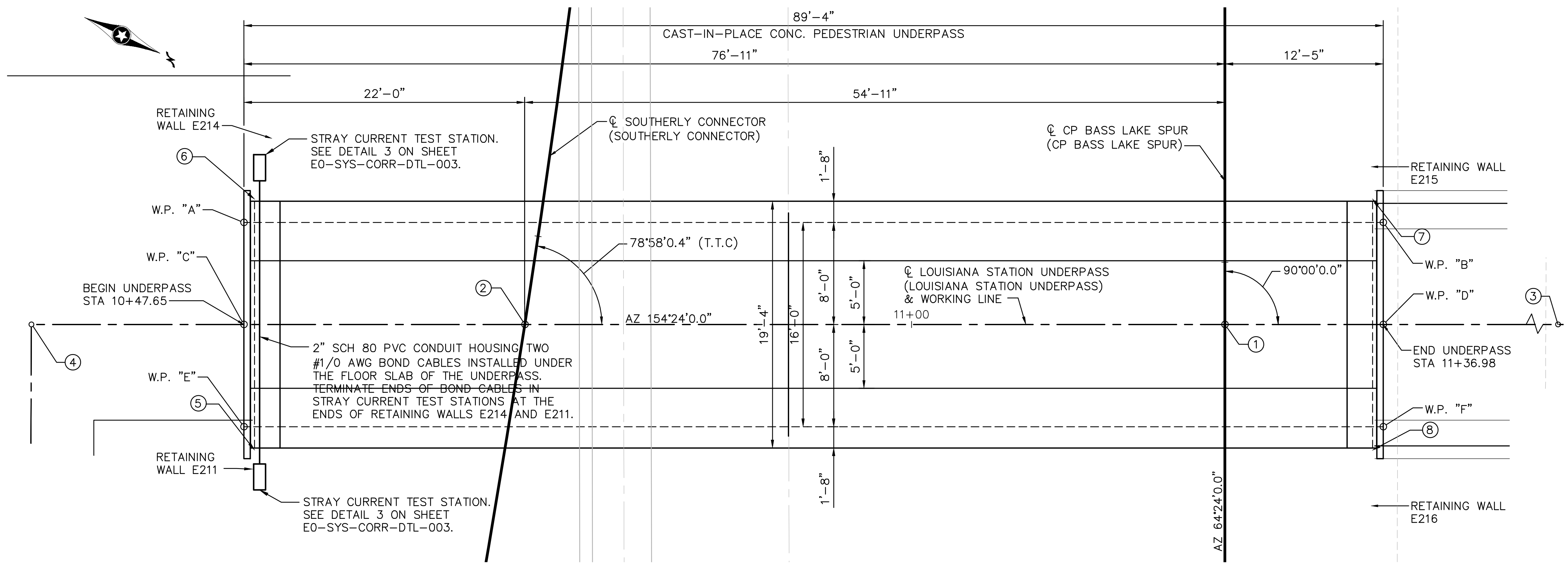
CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 23

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-023



1 GENERAL PLAN

NOTE:

1. SEE SHEET E0-SYS-CORR-DTL-023.

Jan, 15 2016 05:10 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\CORROSION\90% CIVIL PLANS\E0-SYS-CORR-DTL-024.dwg By: mccoolj

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 24

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-024

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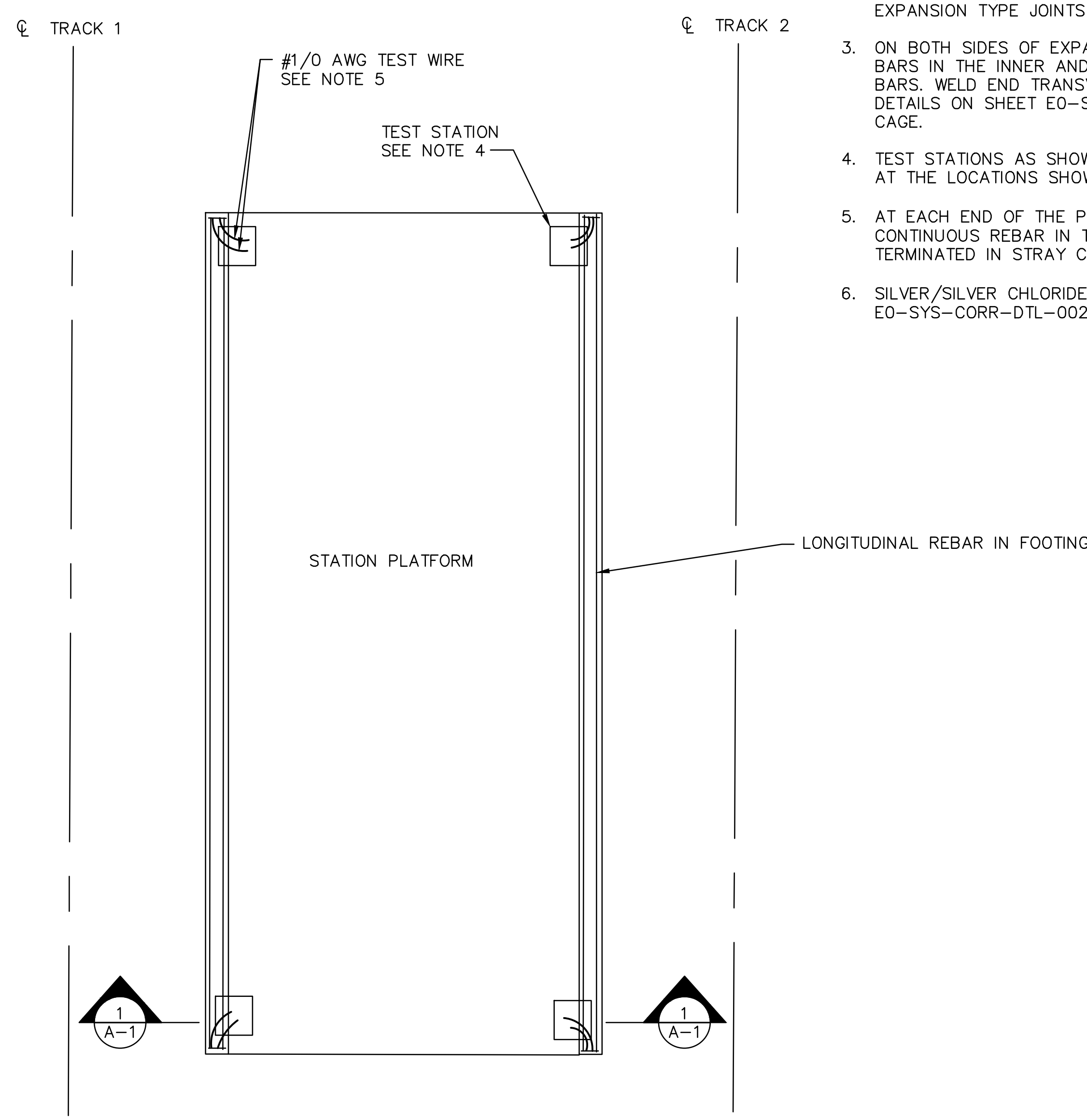
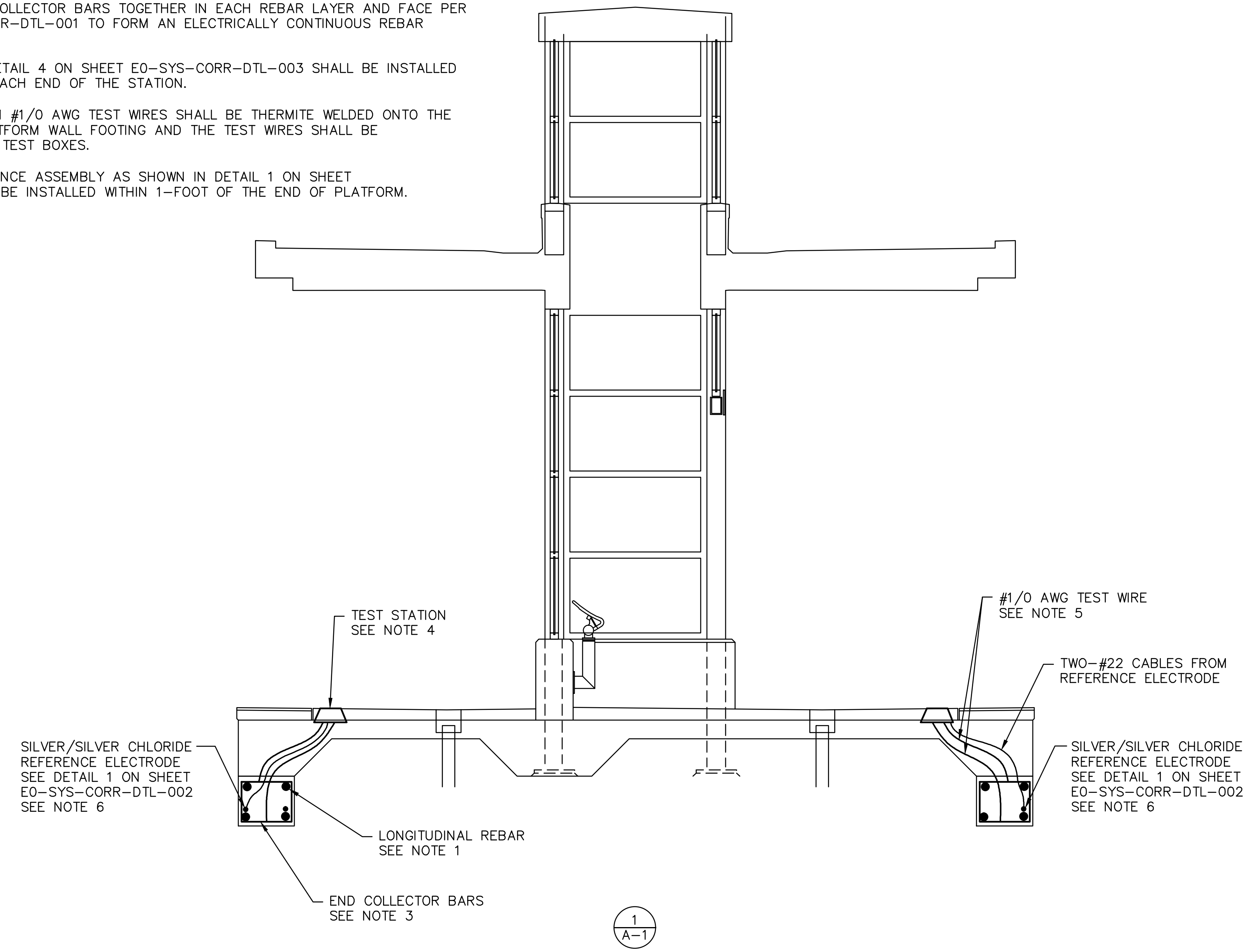
NOTES

1. ALL LAPS SPLICES IN LONGITUDINAL REBAR IN BOTH FACES OF PLATFORM WALL FOOTING SHALL BE WELDED PER DETAILS ON SHEETS E0-SYS-CORR-DTL-001 AND 002.
2. BOND CABLES, BONDING NOTCHES AND STEEL STRAPS SHALL BE INSTALLED ACROSS ALL EXPANSION TYPE JOINTS IN THE FOOTING PER DETAILS ON SHEET E0-SYS-CORR-DTL-001.
3. ON BOTH SIDES OF EXPANSION JOINTS AND AT END OF STRUCTURE WELD ALL LONGITUDINAL BARS IN THE INNER AND OUTER REBAR LAYERS TO ADDITIONAL END TRANSVERSE COLLECTOR BARS. WELD END TRANSVERSE COLLECTOR BARS TOGETHER IN EACH REBAR LAYER AND FACE PER DETAILS ON SHEET E0-SYS-CORR-DTL-001 TO FORM AN ELECTRICALLY CONTINUOUS REBAR CAGE.
4. TEST STATIONS AS SHOWN IN DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003 SHALL BE INSTALLED AT THE LOCATIONS SHOWN AT EACH END OF THE STATION.
5. AT EACH END OF THE PLATFORM #1/0 AWG TEST WIRES SHALL BE THERMITE WELDED ONTO THE CONTINUOUS REBAR IN THE PLATFORM WALL FOOTING AND THE TEST WIRES SHALL BE TERMINATED IN STRAY CURRENT TEST BOXES.
6. SILVER/SILVER CHLORIDE REFERENCE ASSEMBLY AS SHOWN IN DETAIL 1 ON SHEET E0-SYS-CORR-DTL-002 SHALL BE INSTALLED WITHIN 1-FOOT OF THE END OF PLATFORM.



1 TYPICAL AT-GRADE PLATFORM PLAN VIEW



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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 25

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-025

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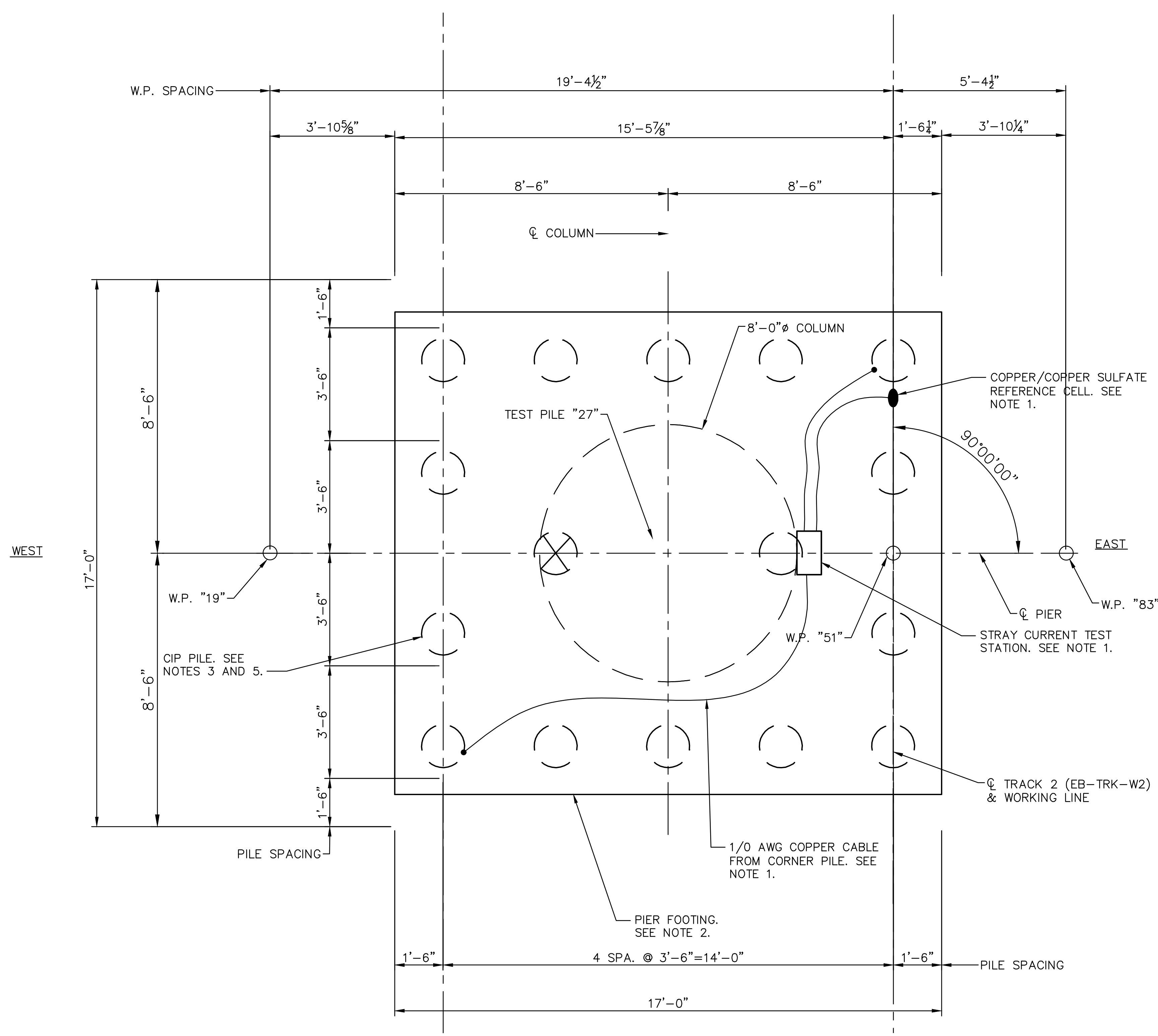
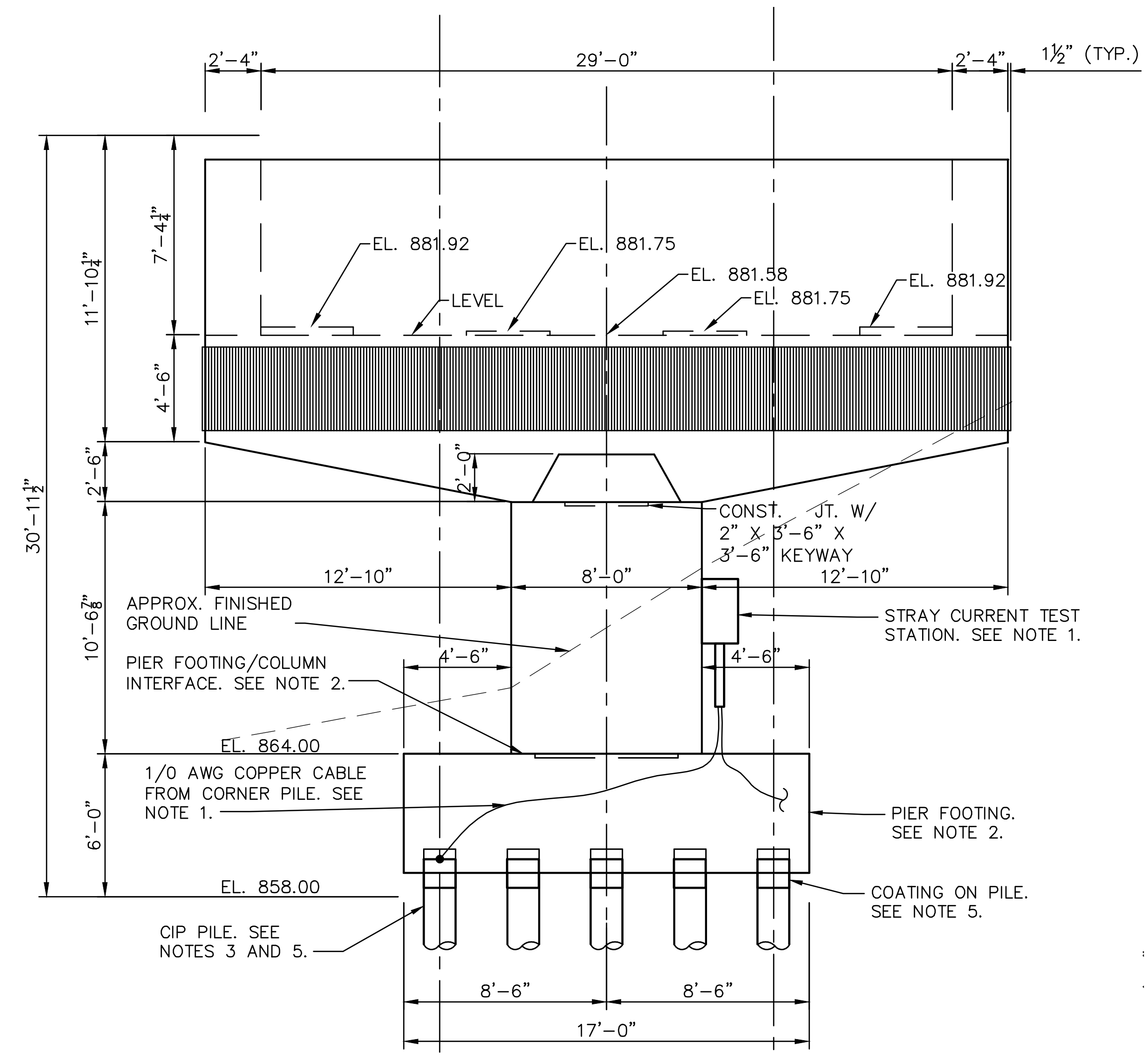
Jan, 15 2016 05:11 pm V:\3400_ADC\CAD\SYSTEMS\PLAN SHEETS\CORROSION\90% CIVIL PLANS\E0-SYS-CORR-DTL-025.dwg By: mccoolj

NOTES:

1. INSTALL STRAY CURRENT TEST STATION HOUSING TWO #1/0 AWG CABLES FROM THE CORNER STEEL SHELLS OF THE CIP PILES AND A #14 AWG HMWPE CABLE FROM THE COPPER/COPPER SULFATE REFERENCE. SEE NOTE 4. SEE DETAIL 4 ON SHEET E0-SYS-CORR-DTL-003. REFERENCE CELL SHALL BE INSTALLED IN SOIL WITHIN 1-FOOT OF PILE AND 1-FOOT BELOW FOOTING.
2. BLACK REBAR IN PIER FOOTINGS SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN THE FOOTINGS. BLACK REBAR IN FOOTINGS SHALL BE ISOLATED FROM EPOXY COATED REBAR IN ABUTMENT WALLS AND WINGWALLS AND IN PIER COLUMNS.
3. STEEL SHELLS OF CIP PILES IN ABUTMENT AND PIER FOOTINGS SHALL BE MADE ELECTRICALLY CONTINUOUS WITH WELDED REBAR IN FOOTINGS. SEE DETAILS ON SHEET E0-SYS-CORR-DTL-008.
4. ALL STRAY CURRENT TEST STATIONS SHALL BE INSTALLED AT LOCATIONS WHERE THEY WILL BE ACCESSIBLE AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND DURING REVENUE OPERATIONS OF THE LRT SYSTEM.
5. THE CONCRETE/SOIL INTERFACE ALONG EACH STEEL SLEEVE FOR THE CIP PILES UNDER THE FOOTINGS FOR THE ABUTMENTS, RETAINING WALLS AND PIERS SHALL BE COATED WITH A DIELECTRIC COATING OR HEAT SHRINK SLEEVE. THE COATING SHALL EXTEND INTO THE CONCRETE FOOTING AT LEAST 6-INCHES AND EXTEND A MINIMUM OF 18-INCHES INTO THE SOIL ALONG THE EXTERNAL PILE SURFACE BELOW THE BOTTOM OF THE FOOTING.
6. ALL EXPOSED BOXES, CONDUITS AND ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURES.



① TYPICAL PIER FOOTING – PLAN VIEW



② TYPICAL PIER FOOTING – PROFILE VIEW

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 26

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-026

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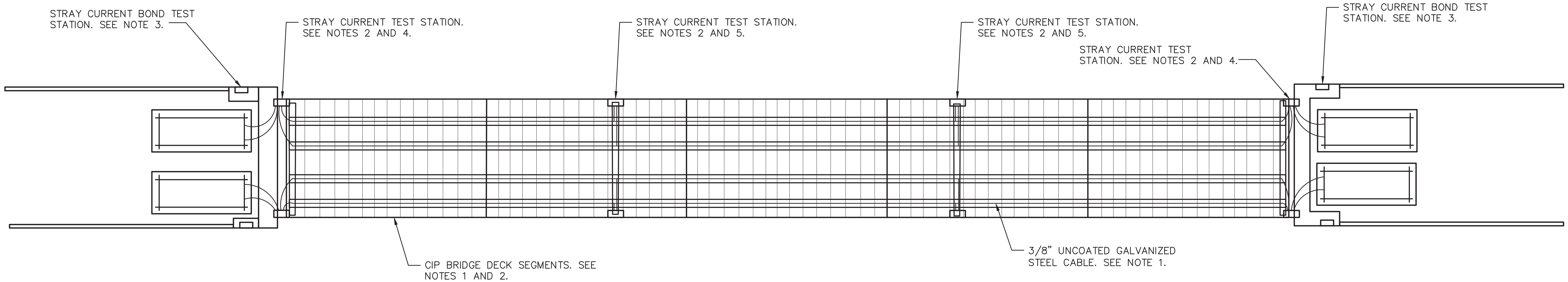
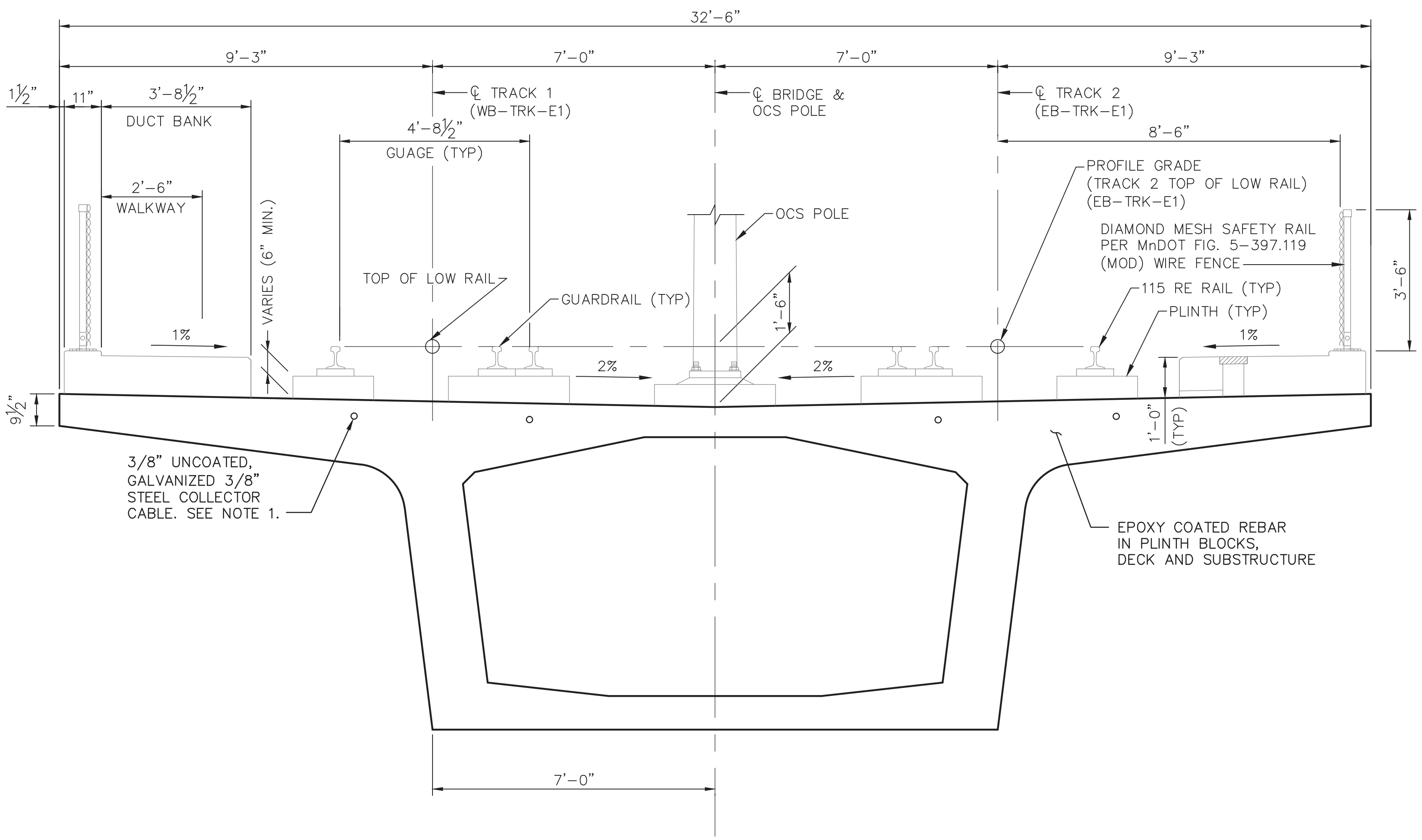


1 EXCELSIOR BRIDGE – PLAN VIEW



2 EXCELSIOR BRIDGE - SECTION VIEW

NOTES:

1. AN UNCOATED, GALVANIZED 3/8" STEEL COLLECTOR CABLE SHALL BE INSTALLED INTO THE TOP OF EACH CAST IN PLACE DECK SEGMENT DIRECTLY BENEATH THE LOCATION OF THE PLINTH BLOCKS ALONG THE ENTIRE LENGTH OF THE BRIDGE DECK. THE 3/8" STEEL COLLECTOR CABLES SHALL BE CONTINUOUS FOR THE LENGTH OF THE BRIDGE.

2. THWN INSULATED #1/0 AWG TEST WIRES SHALL BE PLACED RUNNING TRANSVERSELY FROM THE LONGITUDINAL COLLECTOR CABLE IN THE TOP SLAB OF THE FOUR DECK SEGMENTS AT THE LOCATIONS OF THE FOUR STRAY CURRENT TEST STATIONS SHOWN. THE INSULATED TEST WIRES SHALL BE BUTT OR TEE SPLICED ONTO THE COLLECTOR CABLE AS REQUIRED AND TIED TO THE EPOXY COATED REBAR USING NON–METALLIC TIES.

3. INSTALL STRAY CURRENT BOND TEST STATION ALONG NORTH AND SOUTH SIDES OF EAST AND WEST ABUTMENTS HOUSING TWO #1/0 AWG CABLES FROM PILES IN ABUTMENT FOOTING, ONE #14 HMWPE CABLE FROM REFERENCE CELL UNDER ABUTMENT FOOTING, TWO #1/0 AWG CABLES FROM WELDED REBAR IN RETAINING WALL FOOTING AND A PAIR OF #22 WIRES FROM REFERENCE CELL ASSEMBLY EMBEDDED IN RETAINING WALL FOOTING. SEE DETAIL 3 ON SHEET E0–SYS–CORR–DTL–003, DETAIL 2 ON SHEET E0–SYS–CORR–DTL–017. SEE NOTE 9.

4. INSTALL STRAY CURRENT BOND TEST STATION ALONG BRIDGE HOUSING TWO INSULATED THWN #1/0 AWG CABLES THAT HAVE BEEN BUTT SPLICED ONTO THE 3/8" STEEL CABLES IN THE DECK SLAB, TWO #1/0 AWG CABLES FROM WELDED REBAR IN TRANSITION SLAB AND 250 MCM CABLE TO GROUND ROD(S) AT BASE OF ABUTMENT. SEE DETAIL 2 ON E0–SYS–CORR–DTL–003, DETAILS 2 THROUGH 4 ON SHEET E0–SYS–CORR–DTL–013 AND SHEET E0–SYS–CORR–DTL–027. SEE NOTES 8 AND 9. NO REFERENCE ELECTRODE IS TO BE INSTALLED IN THE AERIAL DECK SINCE THERE IS NO BLACK REBAR IN THE DECK. SUFFICIENT SLACK SHALL BE AVAILABLE IN THE CABLES THAT SPAN THE EXPANSION JOINT TO ACCOUNT FOR MOVEMENT OF THE JOINT.

5. INSTALL STRAY CURRENT TEST STATION ALONG BRIDGE HOUSING TWO INSULATED THWN #1/0 AWG CABLES THAT HAVE BEEN TEE SPLICED ONTO 3/8" STEEL CABLES IN DECK SLAB. SEE SHEET E0–SYS–CORR–DTL–027. SEE NOTES 8 AND 9. NO REFERENCE ELECTRODE IS TO BE INSTALLED IN THE AERIAL DECK SINCE THERE IS NO BLACK REBAR IN THE DECK.

6. LONGITUDINAL REBAR IN TRANSITION SLAB SHALL BE MADE ELECTRICALLY CONTINUOUS WITHIN SLAB. END TRANSVERSE COLLECTOR BARS SHALL BE WELDED TO ALL LONGITUDINAL REBARS AT EACH END AND IN EACH REBAR LAYER OF THE TRANSITION SLAB. TOP AND BOTTOM REBAR LAYERS SHALL BE WELDED TOGETHER USING 1/2" X 2" STEEL STRAPS INSTALLED 2 PER TRACK AT EACH END OF SLAB. #1/0 AWG CABLES (2 PER TRACK) SHALL BE WELDED TO END TRANSVERSE COLLECTOR BAR NEAREST ABUTMENT AND TERMINATED IN JUNCTION BOX ALONG BRIDGE THAT HOUSES WIRES FROM BRIDGE PLINTH BLOCKS AND GROUND ROD(S). BLACK REBAR IN TRANSITION SLABS SHALL BE ISOLATED FROM EPOXY COATED REBAR IN ABUTMENT. SEE DETAILS 2 THROUGH 4 ON SHEET E0–SYS–CORR–DTL–013.

7. INSTALL STRAY CURRENT GROUND ROD ARRAY NEAR BASE OF ABUTMENT. GROUND ROD ARRAY SHOULD EXHIBIT A MAXIMUM RESISTANCE TO EARTH OF 25 OHMS. USE 250 MCM THWN CABLE TO INTERCONNECT GROUND RODS AND AS GROUND CABLE BETWEEN STRAY CURRENT TEST STATIONS AT ENDS OF BRIDGE STRUCTURE. 250 MCM CABLE SHALL RUN INSIDE 2" SCH 80 PVC CONDUIT THAT IS EMBEDDED WITHIN ABUTMENT. SEE DETAILS 3 AND 4 ON SHEET E0–SYS–CORR–DTL–013.

8. AT THE TEST STATION LOCATIONS THWN INSULATED 1/0 AWG CABLE SHALL BE THERMITE WELDED ONTO THE GALVANIZED 3/8" CABLE USING AN END–TO–END OR TEE SPLICE. SEE SPLICE DETAIL ON SHEET E0–SYS–CORR–DTL–010.

9. ALL STRAY CURRENT TEST STATIONS SHALL BE INSTALLED AT LOCATIONS WHERE THEY WILL BE ACCESSIBLE AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITES AND DURING REVENUE LRT OPERATIONS.

10. POST–TENSIONING ANCHORS SHALL BE ELECTRICALLY CONNECTED TO THE STRAY CURRENT COLLECTOR CABLE AS SHOWN ON SHEETS CBR27C10–BRG–DTL–001 AND 002.

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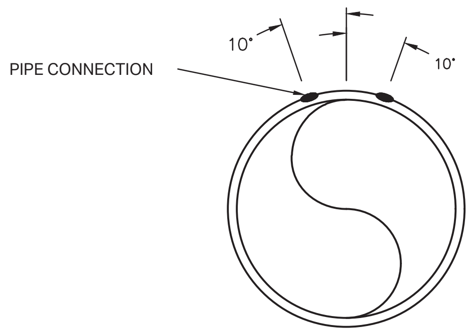
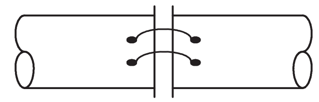
CORROSION CONTROL-STRUCTURES
STRAY CURRENT CONTROL DETAILS 27

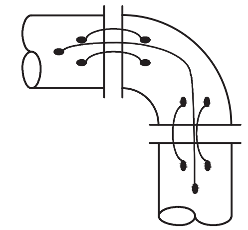
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-027





PIPE JOINT



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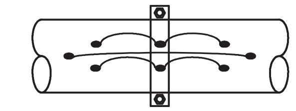
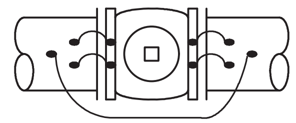


VICTAULIC COUPLING

BONDING NOTES

1. ALL EXOTHERMIC WELDS SHALL BE CLEANED OF ALL WELD SLAG WITH A STIFF WIRE BRUSH. WELDS FOR PIPE JOINT AND FITTING BONDS SHALL BE COATED WITH AN APPROVED COAL TAR MASTIC COATING OR ROYSTON HANDY CAP PRIOR TO BACKFILLING.
2. SEE DETAILS 3 & 5 FOR EXOTHERMIC WELD PROCEDURE.
3. SEE DETAIL 2 FOR SIZES OF BOND WIRES TO BE USED
4. WIRE FOR STRAY CURRENT BONDING OF PIPE JOINTS/FITTINGS SHALL BE SINGLE CONDUCTOR, STRANDED COPPER WITH THWN INSULATION (BLACK). MINIMUM WIRE SIZES SHALL BE AWG #2 FOR PIPING LARGER THAN 36-INCH, AWG #4 FOR 16-INCH THROUGH 36-INCH PIPING AND AWG #6 FOR PIPING SMALLER THAN 16-INCH.
5. IF THE LOCAL MUNICIPALITY USES HIGH DC CURRENTS TO THAW FROZEN MAINS, THEN THE STRANDED COPPER PIPE JOINT BOND CABLES SHALL BE REPLACED WITH MINIMUM 1/16" X 3/4" COPPER BONDING STRAPS. THE BONDING STRAPS SHALL BE SPECIFICALLY DESIGNED TO PROVIDE DUCTILE IRON PIPE JOINT CONTINUITY FOR PIPE THAWING PROCEDURES.



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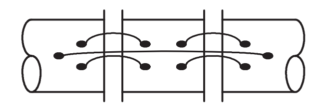

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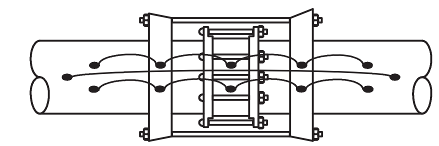
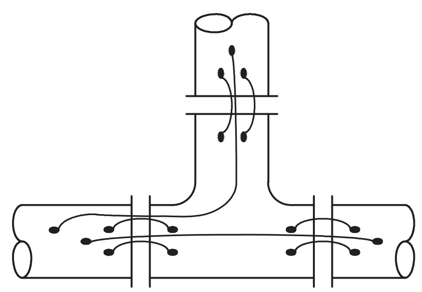


FLEXIBLE COUPLING WITH RESTRAINT



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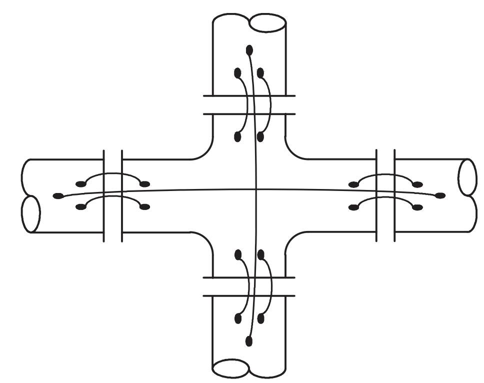

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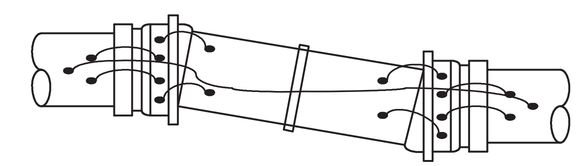

FLEXIBLE JOINT

1 CP TYPICAL PIPE JOINT BOND WIRE CONFIGURATIONS

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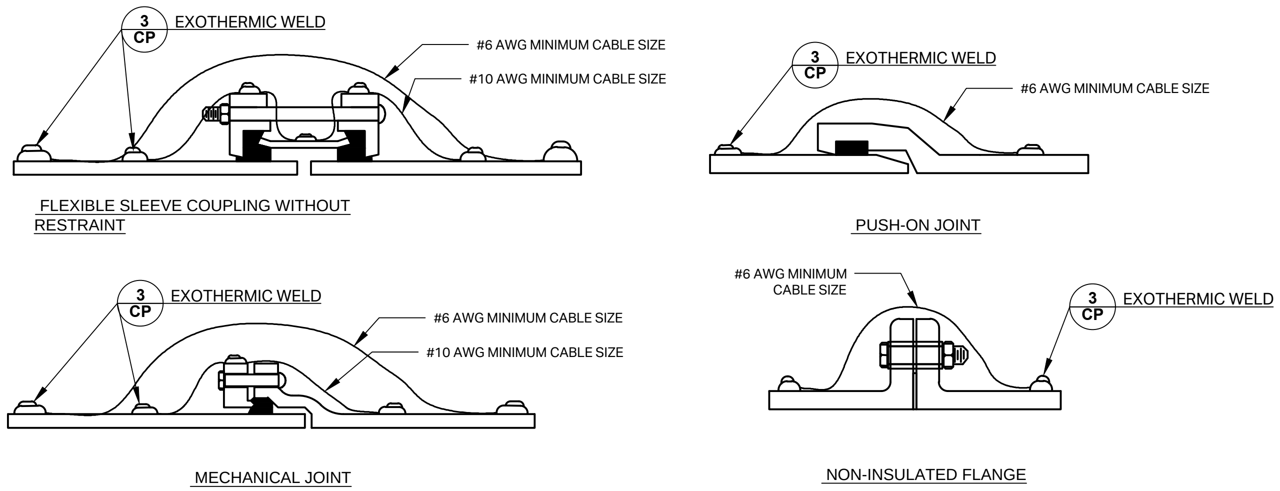
CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 28

DISCIPLINE: CORR

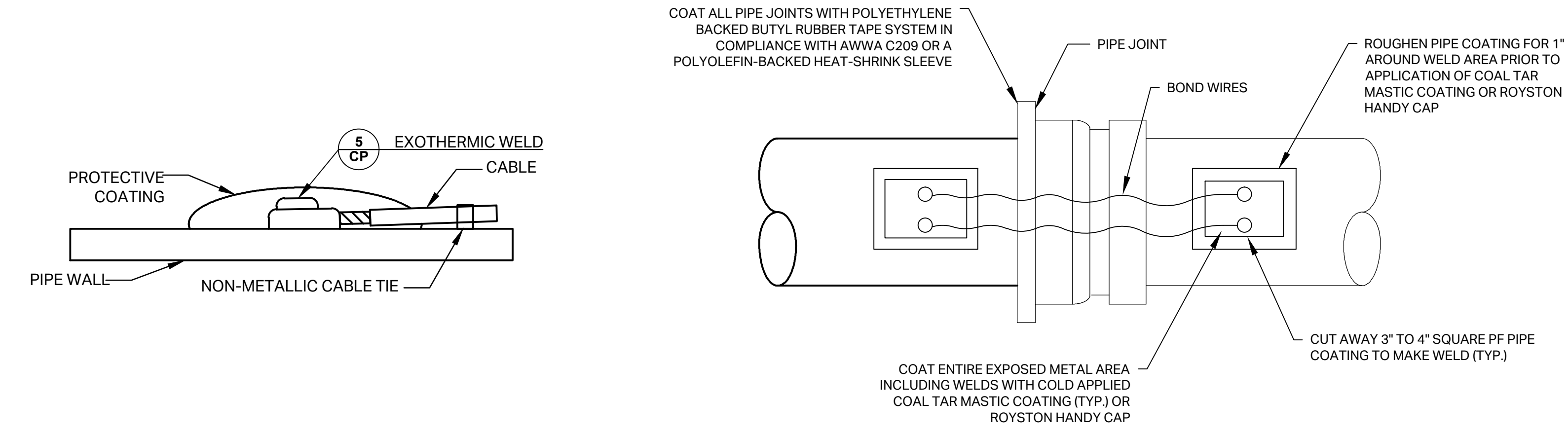
SHEET NAME: E0-SYS-CORR-DTL-028



NOTES:

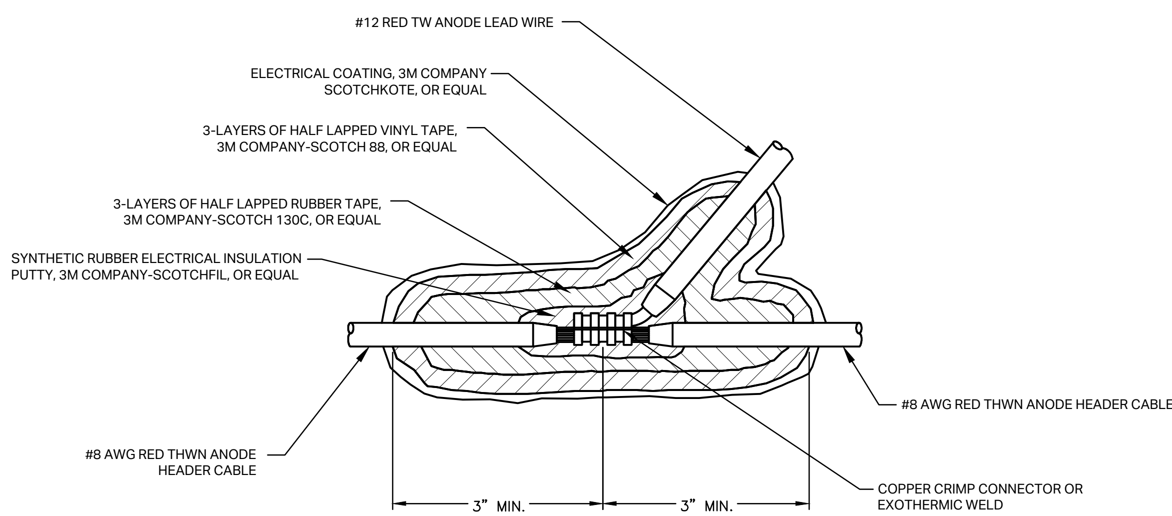
1. NUMBER OF BOND WIRES SHOWN IN DETAIL 1
2. SEE NOTE 5 ON SHEET E0-SYS-CORR-DTL-028

2 CP TYPICAL BONDING TYPES

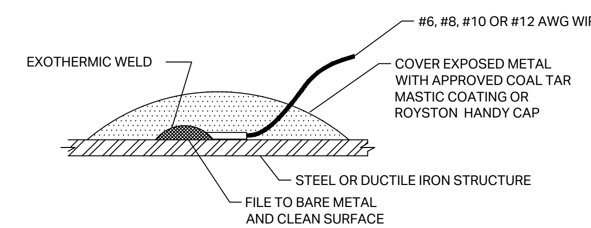


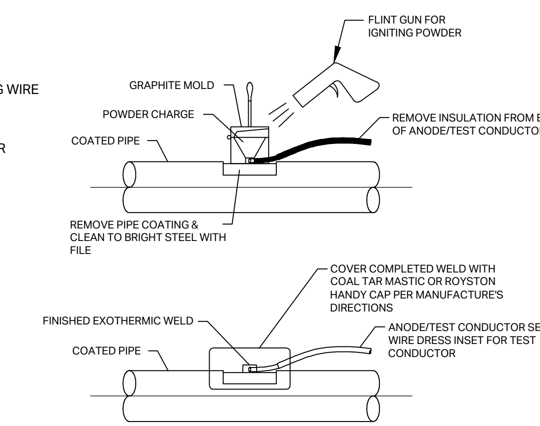
NOTE:
SEE DETAIL 2 FOR TYPICAL BONDING TYPES.

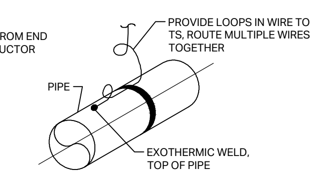
3 CP TYPICAL EXOTHERMICALLY WELDED CABLE CONNECTION



4 CP WYE SPLICE INSULATION







INSET: TYPICAL WIRE DRESS

NOTES:

1. ALL WIRE CONNECTIONS TO THE PIPE SHALL USE AN ERICO CADWELD WITH A CA-15 CHARGE FOR STEEL AND WELD MANUFACTURER RECOMMENDED SIZED XF19 ALLOY WELD METALS FOR DUCTILE IRON.
2. EXOTHERMIC WELDS SHALL BE SPACED AT LEAST 12" APART ON THE PIPE SURFACE.
3. PROCEDURE SHOWN BELOW IS TO BE USED AS A GENERAL GUIDE ONLY. CONSULT MANUFACTURER'S LITERATURE FOR SPECIFIC INSTALLATION INSTRUCTIONS.
4. FOLLOW ALL APPROPRIATE OPEN FLAME RESTRICTIONS AND UTILIZE PROPER SAFETY AND FIRE EXTINGUISHER EQUIPMENT. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN BY PERSONNEL DURING THE ENTIRE OPERATION.
5. ALL LEAD WIRES A.W.G. #8 OR SMALLER SHALL BE INSTALLED USING COPPER SLEEVES FOR PROPER ATTACHMENT.
6. ALL EXPOSED COPPER, DUCTILE IRON OR STEEL SHALL BE COATED PER COATING MANUFACTURER'S SPECIFICATIONS USING A COAL TAR MASTIC COATING OR ROYSTON HANDY CAPS (CAPS PRE-FILLED WITH MASTIC).

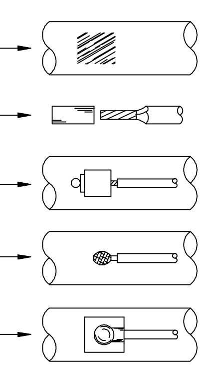
STEP 1. MEDIA BLAST AND/OR GRIND STRUCTURE CONNECTION AREA TO BARE SHINY METAL AND CLEAN. (APPROX. 3"X3" FOR A.W.G. #6, #8, #10 & #12 STRANDED TEST WIRES)

STEP 2. STRIP INSULATION FROM WIRE. ATTACH SLEEVE (IF REQUIRED).

STEP 3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR & IGNITE WITH ELECTRIC CHARGE AND/OR WITH FLINT GUN.

STEP 4. REMOVE SLAG FROM CONNECTION & PEEN WELD FOR SOUNDNESS. IF FIRST EXOTHERMIC WELD IS UNACCEPTABLE, A SECOND EXOTHERMIC WELD MUST BE MOVED A MINIMUM OF 12" AWAY.

STEP 5. COAT ALL CONNECTIONS AND ALL EXPOSED STRUCTURE SURFACES PER COATING MANUFACTURER'S SPECIFICATIONS USING EITHER A COAL TAR MASTIC COATING OR ROYSTON HANDY CAPS (CAPS PRE-FILLED WITH MASTIC).



5 CP TYPICAL EXOTHERMIC WELD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

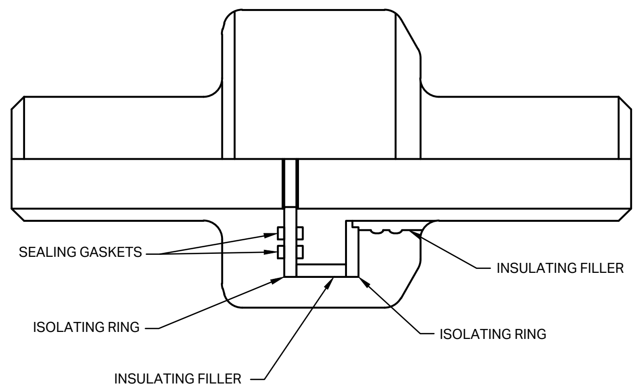
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 29

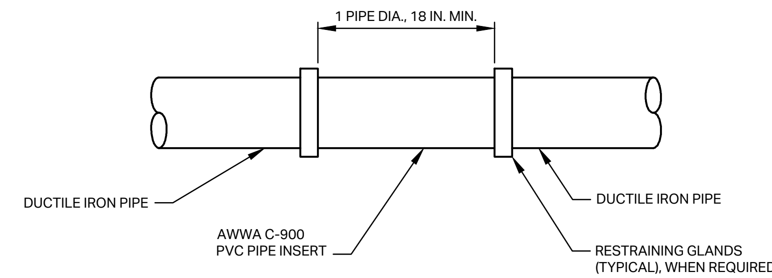
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-029

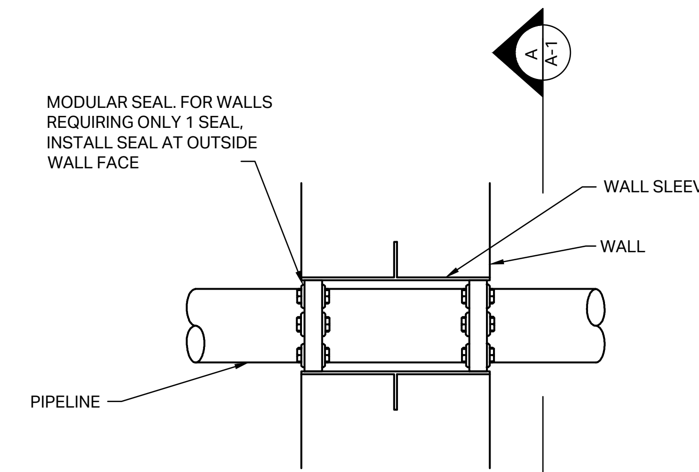
SHEET 453 OF 464

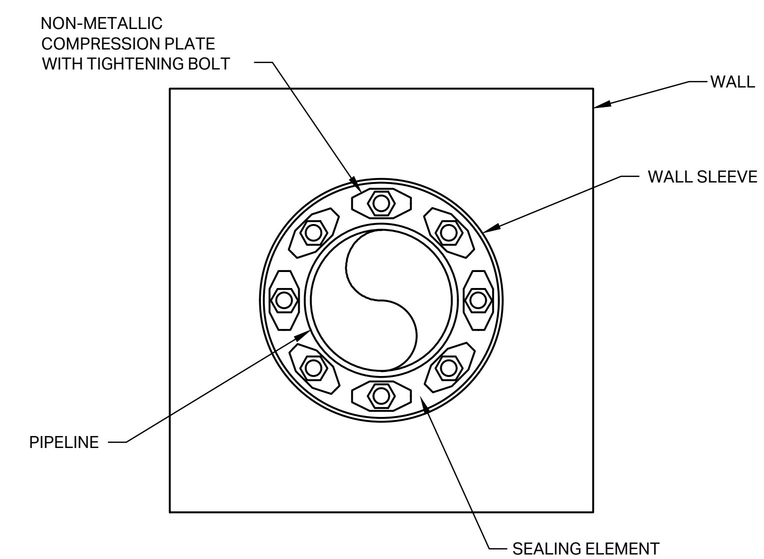


6 CP MONOLITHIC ISOLATION JOINT



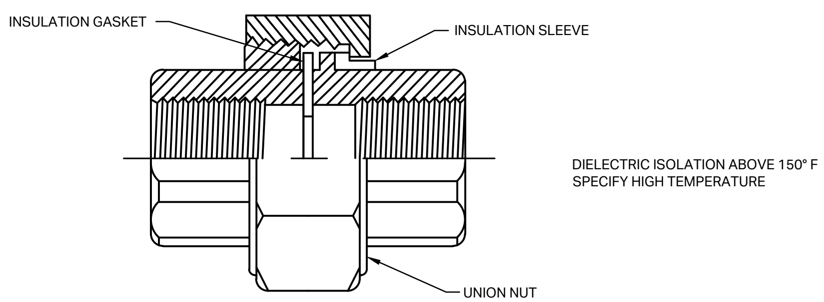
7 CP PVC INSERT ISOLATION JOINT



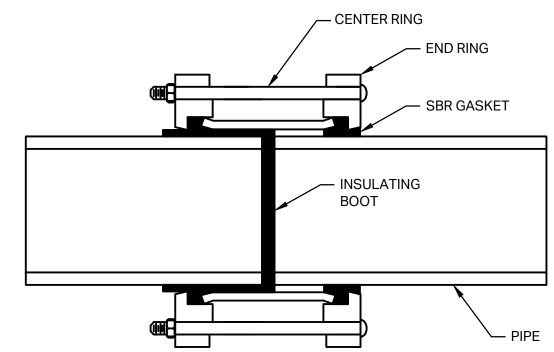


SECTION A - A

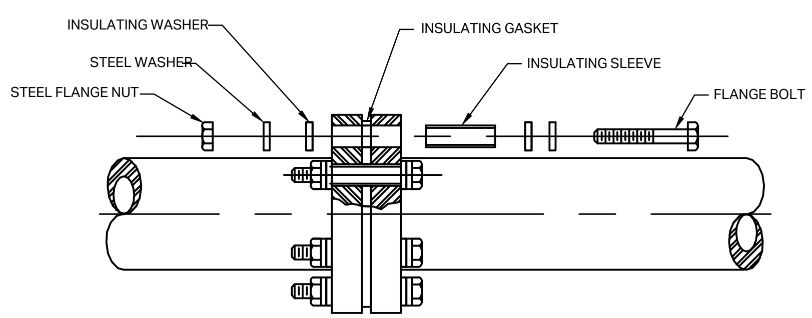
13 CP PIPELINE WALL PENETRATION



8 CP INSULATED UNION



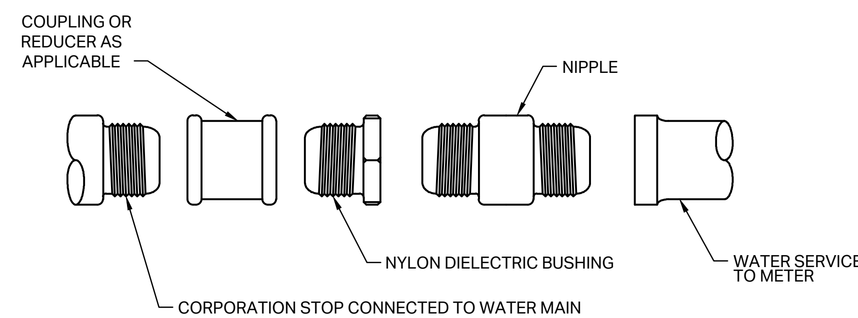
9 CP ISOLATION COUPLING



NOTES FOR INSULATED FLANGES:

1. FOR FLANGES INSTALLED ABOVE GRADE, INSTALL TWO INSULATING WASHERS AS SHOWN. FOR FLANGES INSTALLED BELOW GRADE IN CONJUNCTION WITH CATHODIC PROTECTION, OMIT THE INSULATING WASHER ON THE CATHODICALLY PROTECTED SIDE OF THE FLANGE.
2. FOR STEEL PIPELINES MONOLITHIC ISOLATION JOINTS ARE PREFERRED OVER INSULATED FLANGES FOR BELOW GRADE INSTALLATIONS.
3. IF AN INSULATED FLANGE IS INSTALLED BELOW GRADE, APPLY AN EXTERNAL PROTECTIVE COATING CONSISTING OF PRIMER, FILLER, PETROLATUM IMPREGNATED TAPE, AND OUTER PROTECTIVE WRAP AS MANUFACTURED BY TRENTON CORPORATION, DENSO NORTH AMERICA, OR APPROVED EQUAL. FOR BARE STRUCTURES THE EXTERNAL PROTECTIVE COATING SHALL EXTEND FOR A LENGTH OF A MINIMUM OF 3 PIPE DIAMETERS FROM THE CENTER OF THE FLANGE.
4. FLANGE BOLTS SHALL EXTEND COMPLETELY THROUGH THE FLANGE NUTS WITH A MINIMUM OF THREE THREADS EXPOSED.
5. AN INTERNAL POLYAMIDE EPOXY COATING SHALL BE APPLIED ON EACH SIDE OF THE ISOLATION FITTING FOR A MINIMUM DISTANCE OF 2 TIMES THE PIPE DIAMETER. WHERE THE TRANSPORTED FLUID RESISTIVITY IS LESS THAN 2000 OHM-CM THE CONTRACTOR SHALL DETERMINE THE MINIMUM COATING DISTANCE REQUIRED TO ACHIEVE A CURRENT LEAKAGE OF 2% OR LESS ACROSS THE FITTING. INTERNAL COATING FOR PIPELINES TRANSPORTING POTABLE WATER SHALL MEET THE REQUIREMENTS OF NSF-61.

10 CP INSULATED FLANGE



11 CP WATER SERVICE ISOLATION

NOTES FOR NON-METALLIC PIPING SYSTEMS:

1. ALL METALLIC VALVES AND FITTINGS IN NON-METALLIC PIPELINE SECTIONS SHALL BE COATED WITH A FUSION BONDED EPOXY COATING SYSTEM IN ACCORDANCE WITH ANSI/AWWA C116.
2. ALL NUTS AND BOLTS OF MECHANICAL FITTINGS SHALL BE PROTECTED WITH A PETROLATUM WAX COATING.
3. ALL METALLIC VALVES AND FITTINGS IN NON-METALLIC, BURIED, PRESSURIZED PIPING SYSTEMS WILL ALSO REQUIRE INSTALLATION OF A DIRECT CONNECT GALVANIC ANODE AS SHOWN IN DETAIL 24 ON SHEET E0-SYS-CORR-DTL-033.

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METROPOLITAN COUNCIL

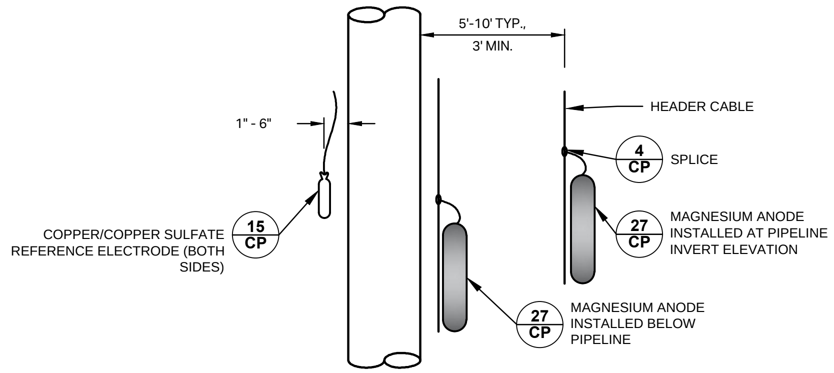
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 30

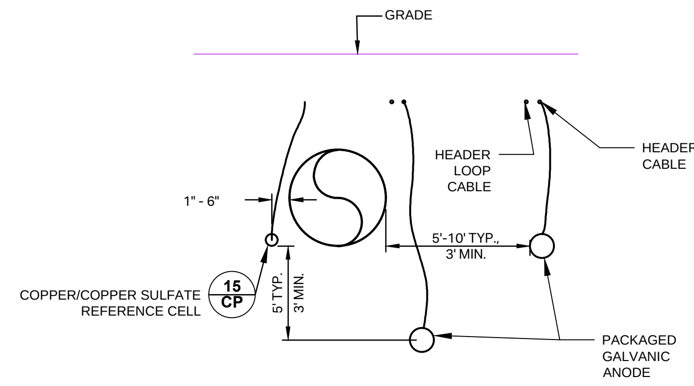
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-030

SHEET 454 OF 464



PLAN VIEW

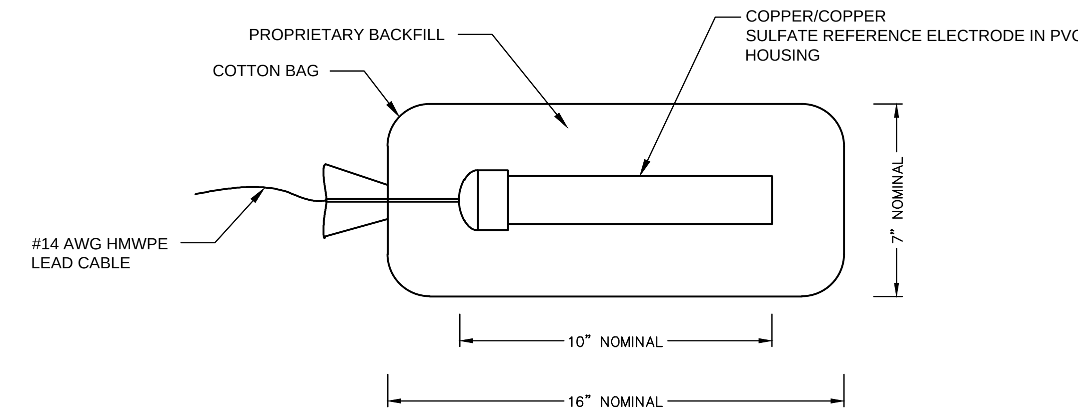


SECTION VIEW

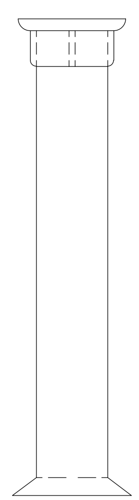
NOTES:

1. ALL CABLES AND TEST WIRES TERMINATED IN A TEST STATION
2. ACTUAL NUMBER OF ANODES ARE INDICATED ON ALIGNMENT SHEET

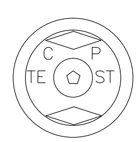
14 CP HORIZONTAL GALVANIC ANODE INSTALLATION



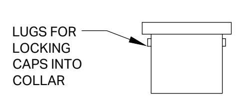
15 CP COPPER/COPPER SULFATE REFERENCE CELL



SIDE VIEW TEST BOX BODY



TOP VIEW

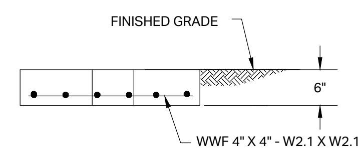


SIDE VIEW

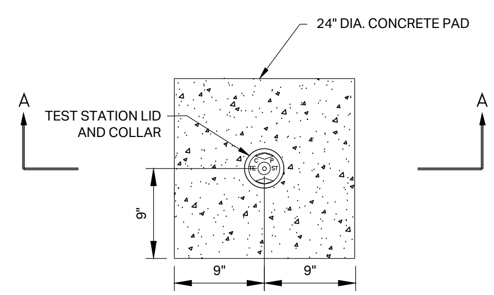
NOTE:

IDENTIFY CABLES IN EACH TEST BOX USING NON-METALLIC TAGS.

16 CP STANDARD TEST BOX



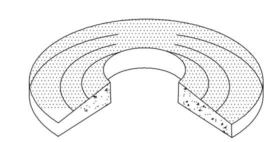
SECTION A-A



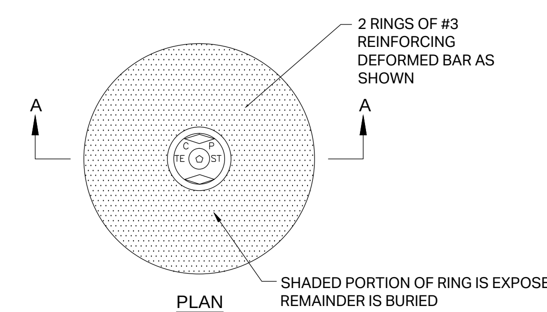
PLAN

NOTE: TO BE USED IN PAVED AREAS.

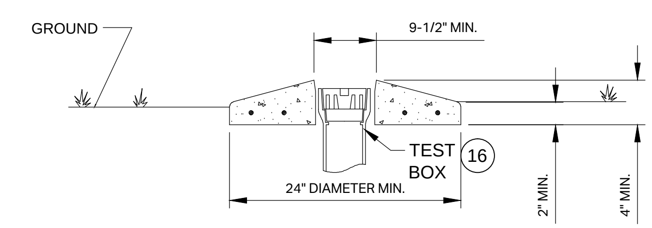
17 CP CONCRETE TEST PAD



CUT AWAY VIEW



PLAN



SECTION A-A

NOTES

1. CONCRETE PROTECTOR RING SHALL BE 2500 P.S.I. PRECAST REINFORCED CONCRETE
2. TEST STATION SHALL BE AT GRADE WITH PROTECTOR RING EXTENDING 1/2" ABOVE GRADE
3. TEST STATION PROTECTOR RINGS SHALL BE INSTALLED AROUND VALVE BOX IN UNPAVED NON-TRAFFIC AREAS. AND SHALL NOT CREATE A HINDRANCE TO MOWING OPERATIONS.
4. TO BE USED IN UNPAVED AREAS.

18 CP CONCRETE PROTECTION RING

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 31

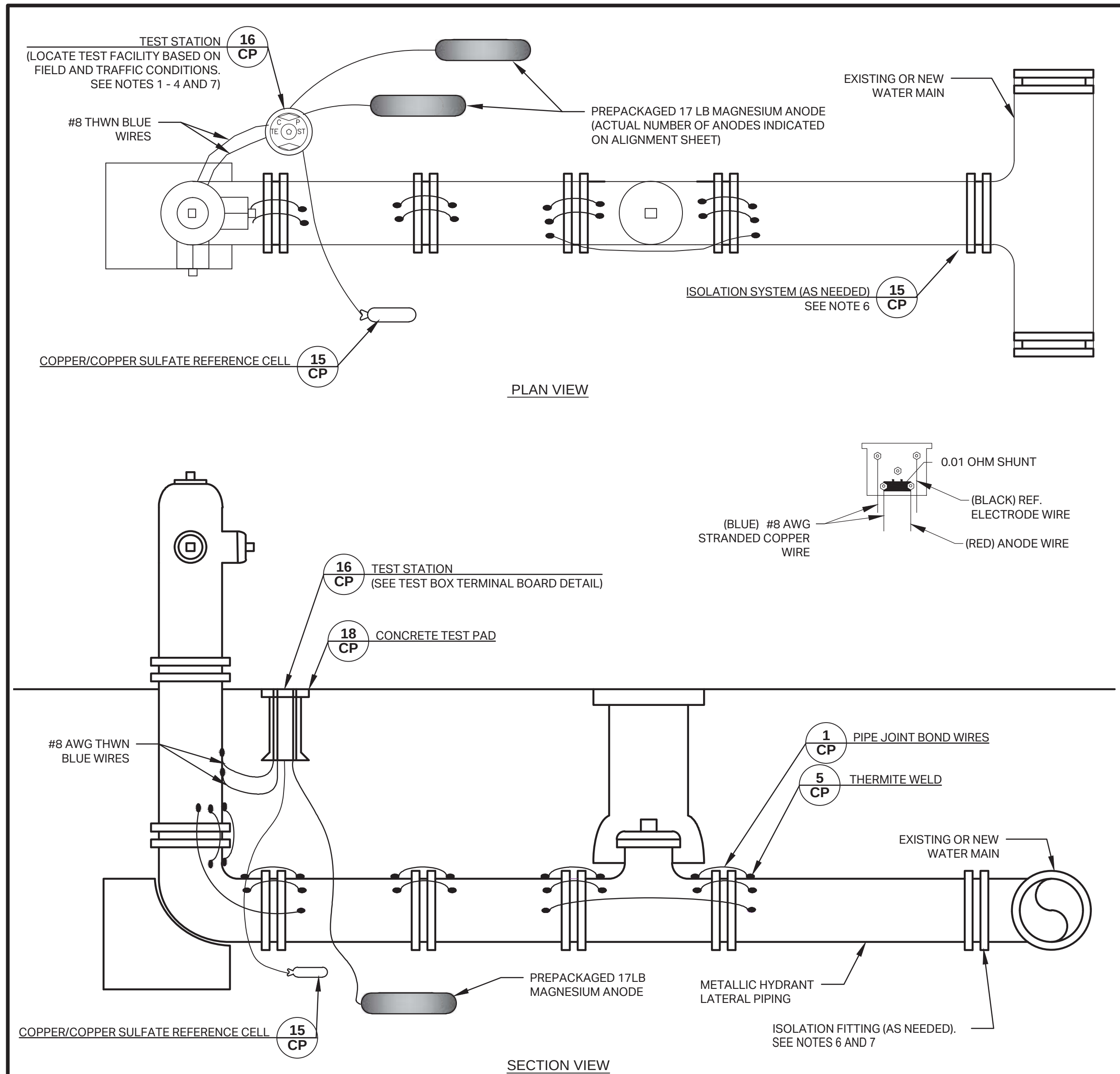
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-031

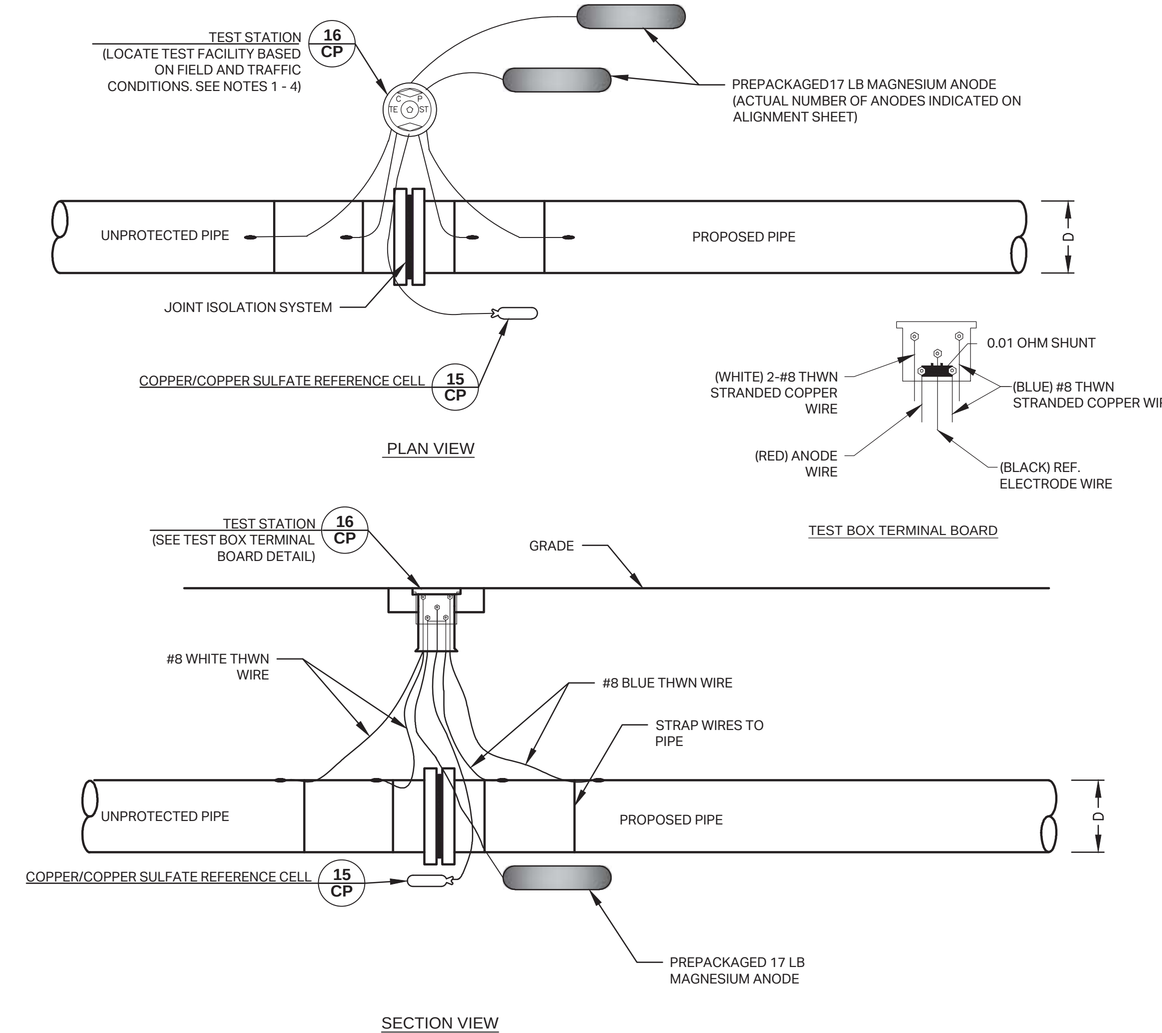
SHEET 455 OF 464

Jan. 15 2016 01:38 pm G:\Data\Departments\Pipeline\Minnesota Streetcar CP Design - 60336960\7.0 ACAD Drawings\DRAWING\E0-SYS-CORR-DTL-012.dwg By: Carlos_Deese

(xref V:\3400_ADC\CAD\LIBRARY\BORDERS\XE0_GEN_BORD.dwg



19 CP FIRE HYDRANT STRAY AND CATHODIC CURRENT PROTECTION CURRENT BONDING



20 CP ISOLATION JOINT TEST STATION

NOTES

1. CONTRACTOR SHALL APPROPRIATELY LOCATE TEST STATION BASED ON FIELD AND TRAFFIC CONDITIONS.
2. DO NOT SET TEST STATION IN ROADWAYS. WHERE A TEST STATION IS LOCATED IN A NON-PAVED AREA, SET THE TEST STATION APPROXIMATELY 2-FT FROM BACK OF CURB.
3. IN NON-PAVED AREAS, TEST STATIONS SHALL BE AS SHOWN IN DETAIL 18, SHEET E0-SYS-CORR-DTL-031.
4. IN PAVED AREAS, TEST PAD SHALL BE AS SHOWN IN DETAIL 17, SHEET E0-SYS-CORR-DTL-031.
5. BOND ALL COMPONENTS OF THE NEW PIPING SYSTEM UNLESS OTHERWISE STATED.
6. INSTALL INSULATED FITTING IN FIRE HYDRANT LATERAL AT TIE-IN TO EXISTING LINE PIPE IF HYDRANT LATERAL IS TRYING IN TO AN EXISTING METALLIC WATER LINE. IF NEW FIRE HYDRANT LATERAL IS TYING INTO A NEW CATHODICALLY PROTECTED MAIN, THEN ALL PIPE JOINS ALONG THE NEW LATERAL AND TIE-IN SHALL BE BONDED.
7. IF AN INSULATED FITTING IS INSTALLED IN THE HYDRANT LATERAL. THEN A TEST STATION AS SHOWN IN DETAIL 20 SHALL BE INSTALLED ACROSS THE INSULATED FITTING AND THE TEST STATION SHOWN AT THE FIRE HYDRANT RISER IS TO BE ELIMINATED.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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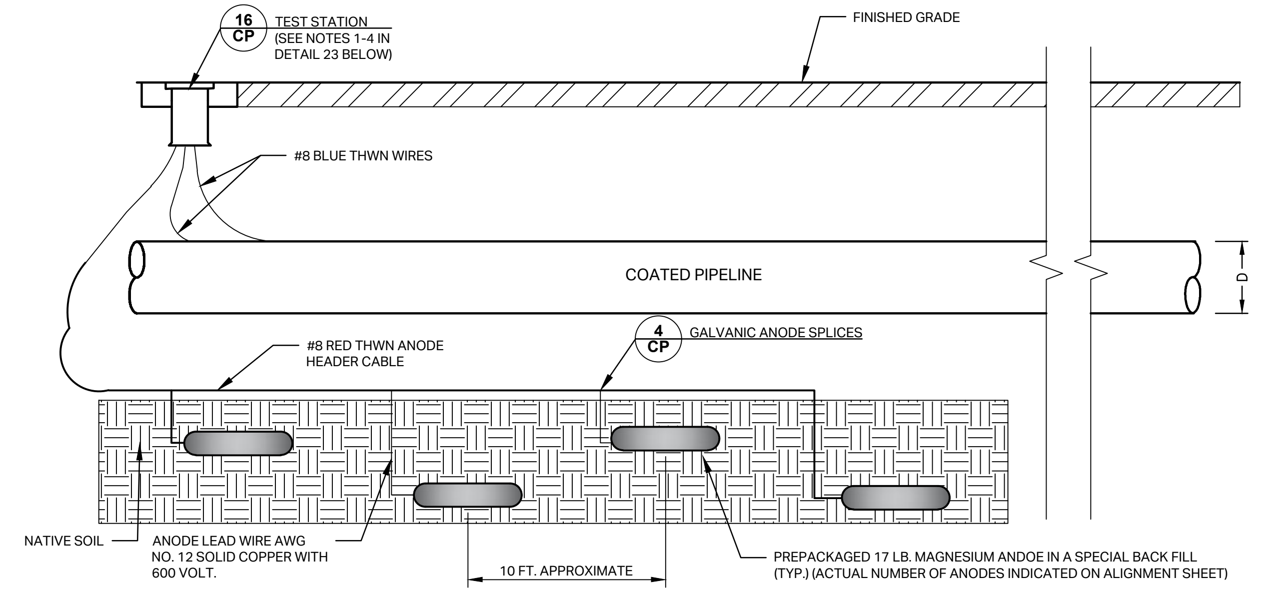
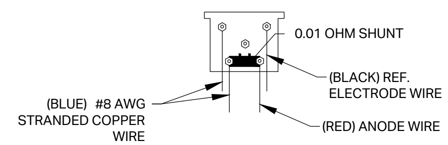
METROPOLITAN COUNCIL — SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 32

DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-032

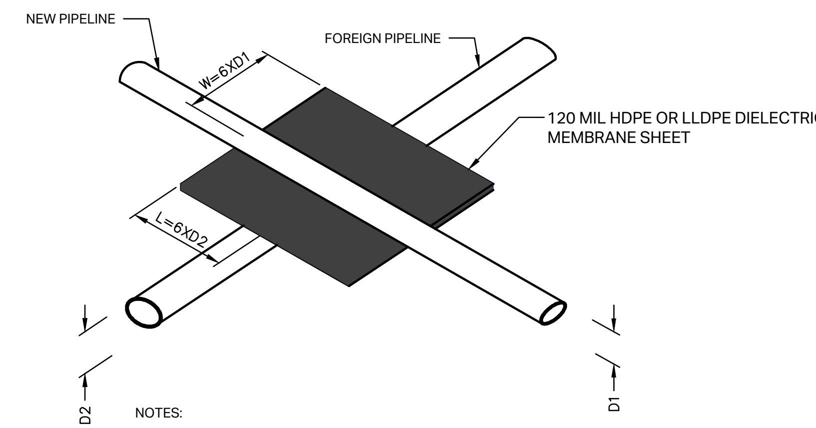




NOTES

1. COPPER/COPPER SULFATE REFERENCE CELL NOT SHOWN FOR CLARITY.
2. ANODES SHOWN OFFSET FROM PIPE FOR CLARITY. SEE DETAIL 14 FOR ACTUAL POSITION OF ANODES RELATIVE TO PIPE.

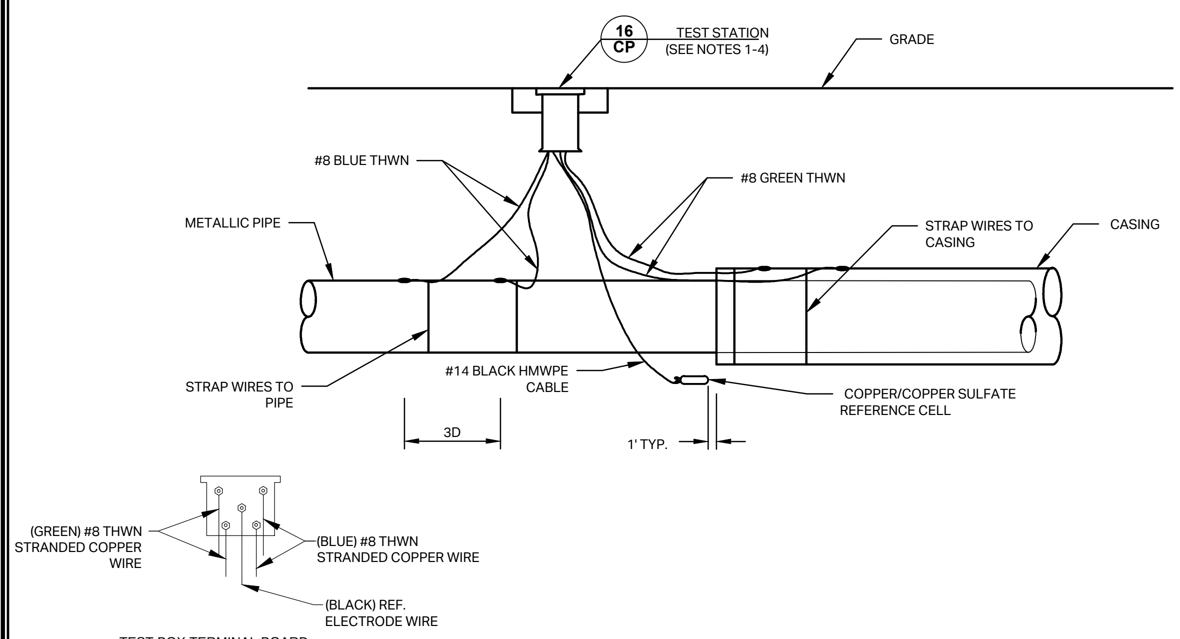
21 CP IN LINE ANODE TEST STATION



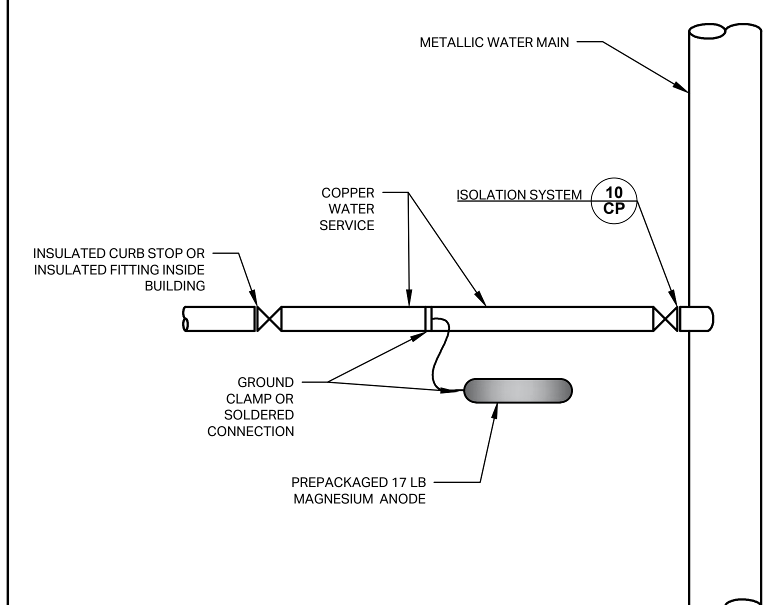
NOTES:

1. PLACE DIELECTRIC MEMBRANE BETWEEN PIPELINES IN BOTTOM OF MEW PIPELINE TRENCH, CENTERED OVER FOREIGN PIPELINE CROSSING.
2. LENGTH OF DIELECTRIC MEMBRANE ALONG NEW PIPE ON EACH SIDE OF CROSSING WITH FOREIGN PIPE SHALL BE 6 TIMES THE DIAMETER OF THE FOREIGN PIPELINE.
3. WIDTH OF DIELECTRIC MEMBRANE ALONG NEW PIPE ON EACH SIDE OF CROSSING WITH FOREIGN PIPE SHALL BE 6 TIMES THE DIAMETER OF THE NEW PIPELINE.
4. MINIMIZE DIRECT CONTACT BETWEEN PIPELINES AND DIELECTRIC MEMBRANE BY THE USE OF A SUITABLE PIPE BEDDING MATERIAL.

22 CP STRUCTURE ISOLATION AT CROSSING WITH MEMBRANE



23 CP CASING TEST STATION



24 CP INSULATED COPPER WATER SERVICE CATHODIC PROTECTION

NOTES

1. CONTRACTOR SHALL APPROPRIATELY LOCATE TEST STATION BASED ON FIELD AND TRAFFIC CONDITIONS.
2. DO NOT SET TEST STATION IN ROADWAYS. WHERE A TEST STATION IS LOCATED IN A NON-PAVED AREA, SET THE TEST STATION APPROXIMATELY 2-FT FROM BACK OF CURB.
3. IN NON-PAVED AREAS, TEST STATIONS SHALL BE AS SHOWN IN DETAIL 18, SHEET E0-SYS-CORR-DTL-031.
4. IN PAVED AREAS, TEST PAD SHALL BE AS SHOWN IN DETAIL 17, SHEET E0-SYS-CORR-DTL-031.
5. BOND ALL COMPONENTS OF THE NEW PIPING SYSTEM UNLESS OTHERWISE STATED.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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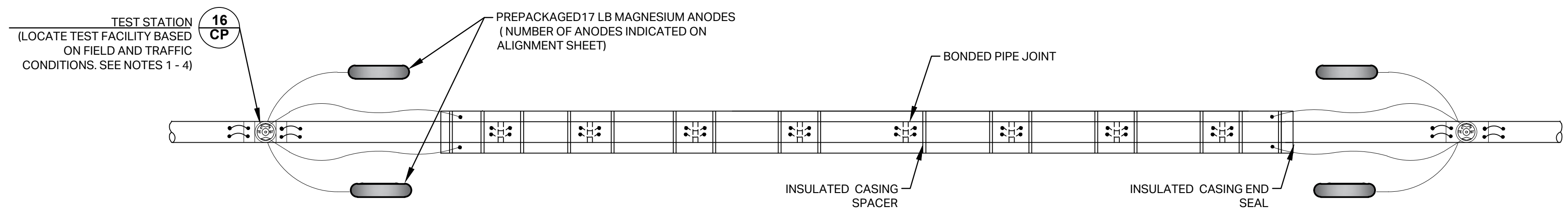
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

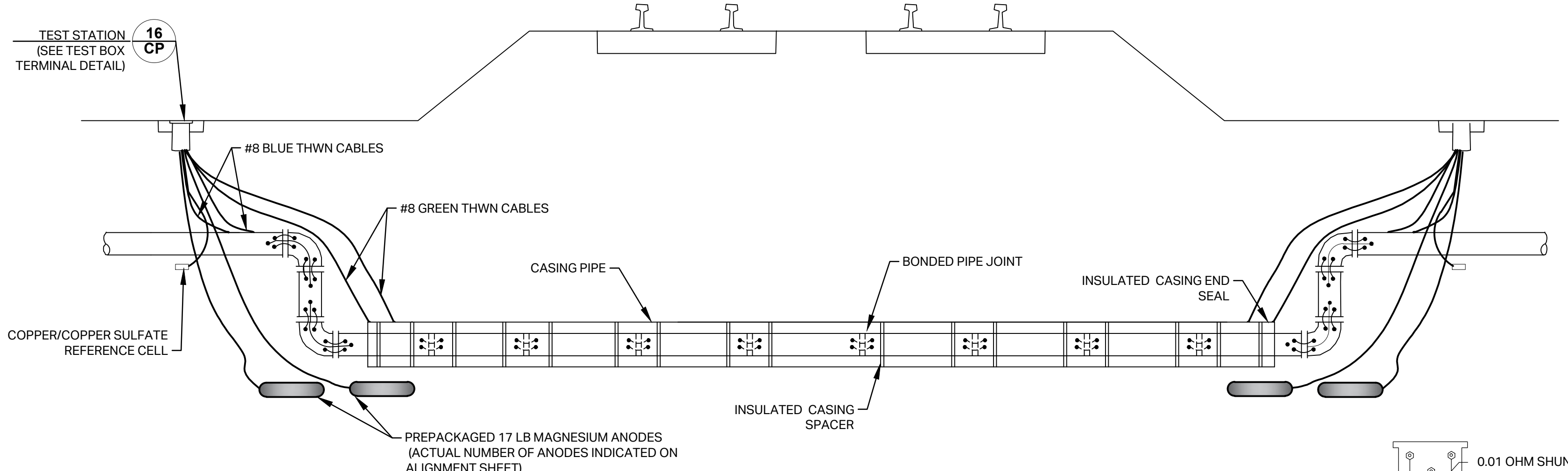
CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 33

DISCIPLINE: CORR

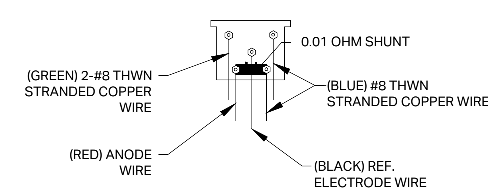
SHEET NAME: E0-SYS-CORR-DTL-033



PLAN VIEW



SECTION VIEW

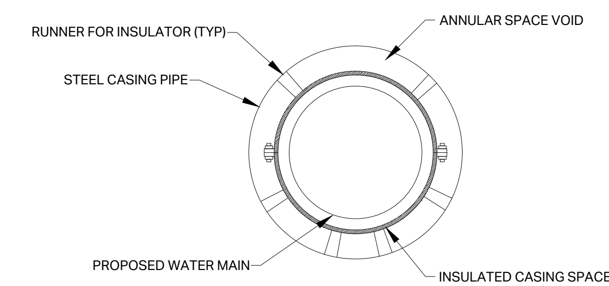


TEST BOX TERMINAL BOARD

NOTES:

1. CONTRACTOR SHALL APPROPRIATELY LOCATE TEST STATION BASED ON FIELD AND TRAFFIC CONDITIONS.
2. DO NOT SET TEST STATION IN ROADWAYS. WHERE A TEST STATION IS LOCATED IN A NON-PAVED AREA, SET THE TEST STATION APPROXIMATELY 2-FT FROM BACK OF CURB.
3. IN NON-PAVED AREAS, TEST STATIONS SHALL BE AS SHOWN IN DETAIL 18, SHEET E0-SYS-CORR-DTL-031.
4. IN PAVED AREAS, TEST PAD SHALL BE AS SHOWN IN DETAIL 17, SHEET E0-SYS-CORR-DTL-031.
5. BOND ALL COMPONENTS OF THE NEW PIPING SYSTEM UNLESS OTHERWISE STATED.
6. CASING PIPE SIZES SHOWN ARE TYPICAL TO ALLOW CLEARANCE OF BELL AND SPIGOT OR MECHANICAL COUPLINGS. REFER TO UTILITY OWNER'S STANDARDS FOR FINAL SIZING OF CASING PIPE.
7. THE UTILITY CROSSING SHOWN IS TYPICAL TO DEMONSTRATE THE REQUIRED JOINT BONDING, CASING ISOLATOR INSTALLATIONS, AND TEST STATIONS. THE ACTUAL CROSSING LAYOUT WILL BE SHOWN IN THE UTILITY RELOCATION/INSTALLATION DRAWINGS.

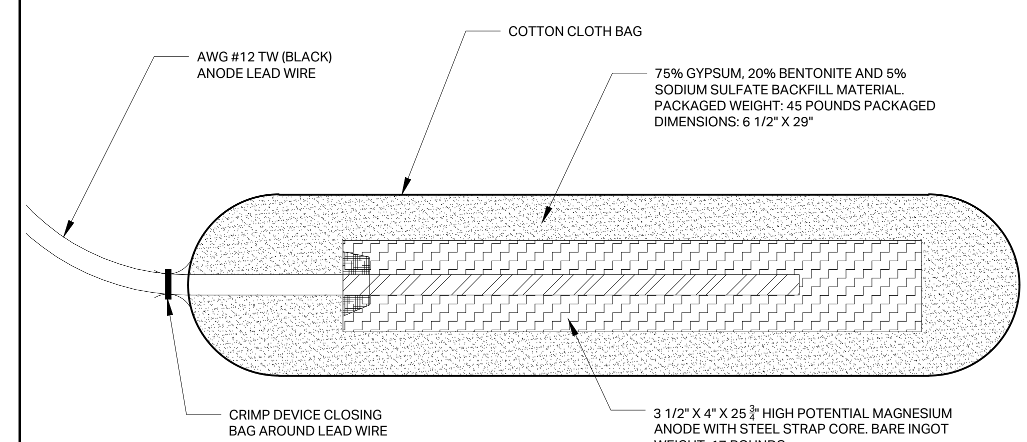
25 CP TYPICAL UTILITY CROSSING



CASING PIPE SIZES

WATER MAIN PIPE SIZES (INCHES)	CASING PIPE SIZE (INCHES)	CASING PIPE SIZE (INCHES)
6	16	0.375
8	20	0.375
12	24	0.375
16	30	0.375
20	36	0.375
24	42	0.500
30	48	0.500
36	54	0.500

26 CP TYPICAL CASING DETAIL



27 CP ANODE DETAIL

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 1/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
CORROSION CONTROL - UTILITIES
STRAY CURRENT CONTROL DETAILS 34

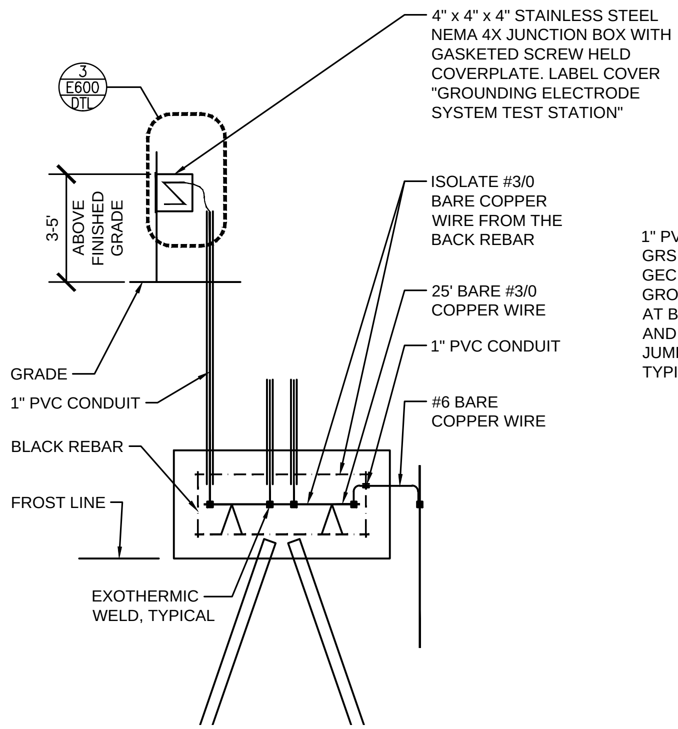
DISCIPLINE: CORR

SHEET NAME: E0-SYS-CORR-DTL-034

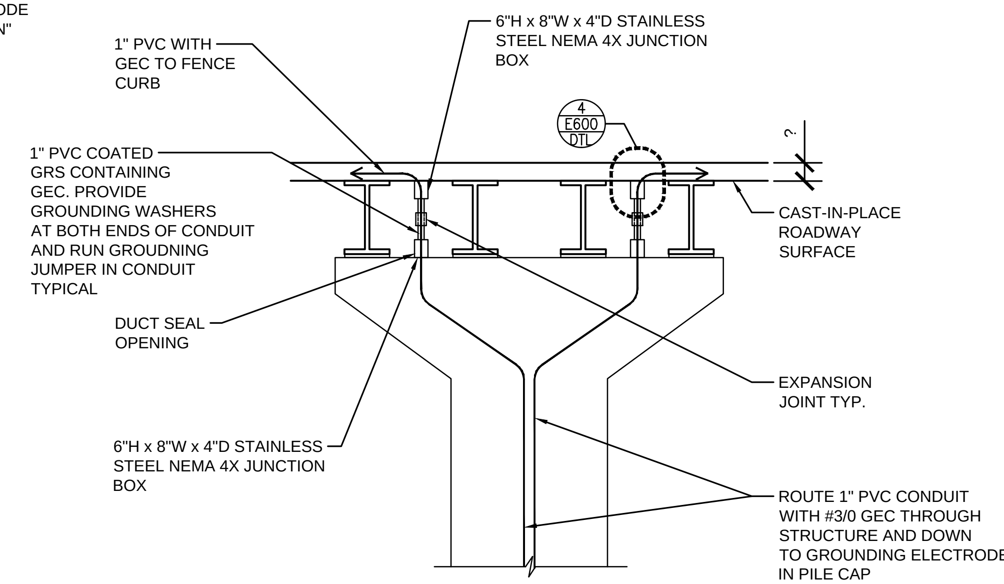
CIVIL - VOLUME 12				
BRIDGE	BRIDGE DESCRIPTION	SHEETS	FENCE TYPE	NOTES
27C11	LOUISIANA S, TRAIL BRIDGE	CBR27C11-BRG-GPE-001 THROUGH CBR27C11-BRG-DTL-009	CHAIN LINK	
27C12	LOUISIANA S, FREIGHT BRIDGE	CBR27C12-BRG-GPE-001 THROUGH CBR27C12, FIGURE 5-397.112	CHAIN LINK	
27C13	LOUISIANA S, LRT BRIDGE	CBR27C13-BRG-GPE-001 THROUGH CBR27C13-BRG-DTL-007	CHAIN LINK	
R0690	LOUISIANA STATION UNDERPASS	CBRR0690-BRG-GPE-001 THROUGH CBRRO690-BRG-DTL-003	CHAIN LINK	
27W34	TH 100 FREIGHT BRIDGE	CBR27W34-BRG-GPE THROUGH CBR27W34-BRG-RAL-002	ORNAMENTAL	
27303	TH 100 LRT BRIDGE	CBR27303-BRG-GPE THROUGH CBR27303-BRG-AES-001	ORNAMENTAL	
R0687	MINNEHAHA CREEK TRAIL BRIDGE	CBRR0687-BRG-GPE-001 THROUGH CBRR0687-BRG-DTL-003-1	CHAIN LINK	
R0687	MINNEHAHA CREEK FREIGHT BRIDGE	CBRR0687-BRG-GPE-001 THROUGH CBRR0687-BRG-DTL-006	CHAIN LINK	
R0689	MINNEHAHA CREEK LRT BRIDGE	CBRR0689-BRG-GPE-001 THROUGH CBRR0689-BRG-DTL-007	CHAIN LINK	
27037	CSAH 25 (WEST LAKE STREET) (BRIDGE 27037) BRIDGE MODIFICATIONS	CBR27037-BRM-GPE-001 THROUGH CBR27037-BRM-DTL-008	ORNAMENTAL	DISCONNECT EXISTING GROUNDING AND BONDING CABLES WHEN EXISTING RAILING IS REMOVED. REATTACH TO NEW RAILING.
27758	CSAH 2 (PENN AVE S) (BRIDGE 27758) BRIDGE MODIFICATIONS	CBR27758-BRM-GPE-001 THROUGH CBR27758, FIGURE 5-397.119	CHAIN LINK	DISCONNECT EXISTING GROUNDING AND BONDING CABLES WHEN EXISTING RAILING IS REMOVED. REATTACH TO NEW RAILING.
27B01	VN WHT BLVD NB (BRIDGE 27B01) BASE MODIFICATIONS	CBR27B01-BRM-GPE-001 THROUGH CBR27B01-BRM-DTL-002	ORNAMENTAL	DISCONNECT EXISTING GROUNDING AND BONDING CABLES WHEN EXISTING RAILING IS REMOVED. REATTACH TO NEW RAILING.
27W32	BRIDGE OVER I-494	CBR27W32-BRG-GPE-001 THROUGH CBR27W32 B905	CHAIN LINK	
27J62	PEDESTRIAN UNDERPASS 1	CBR27J62-BRG-GPE-001 THROUGH CBR27J62-BRG-BDTL	CHAIN LINK	

1 FENCE GROUNDING SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



1 PILE CAP SECTION
SCALE: N.T.S.



2 GEC ROUTING AT BEAMS
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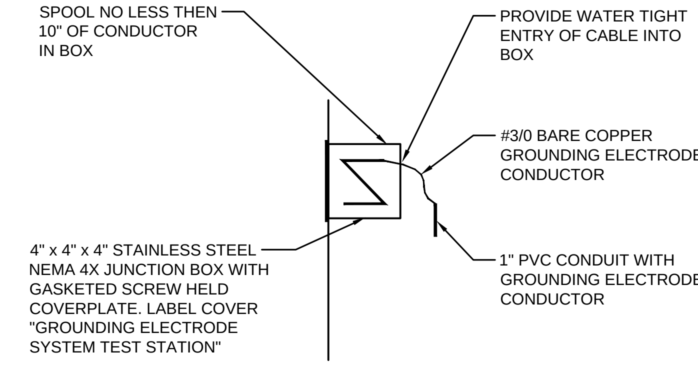
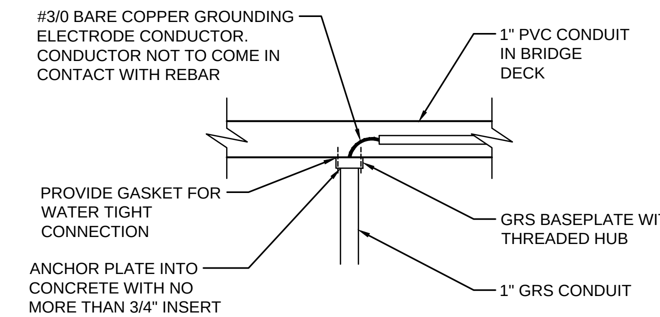
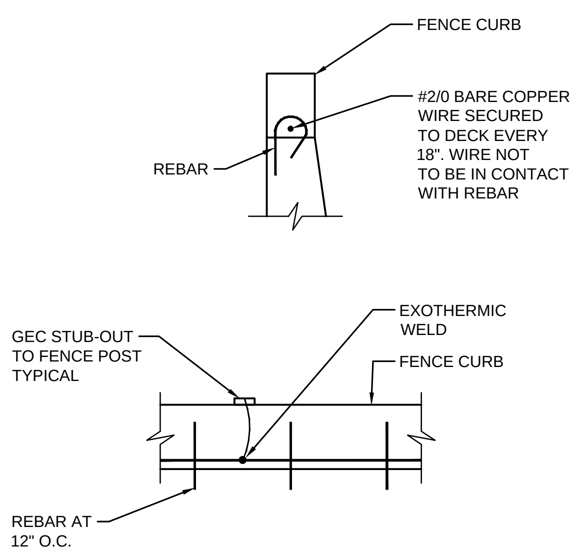


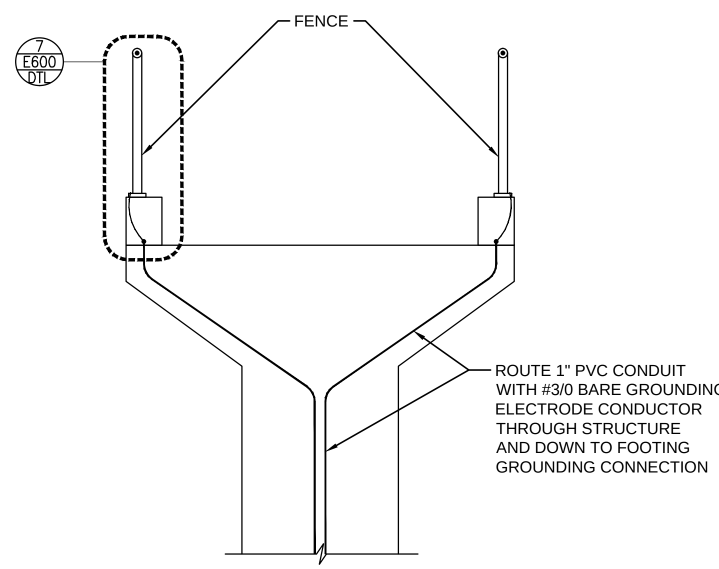
3 TEST STATION DETAIL
SCALE: N.T.S.



4 DETAIL
SCALE: N.T.S.



5 FENCE CURB SECTIONS
SCALE: N.T.S.



6 GEC ROUTING THROUGH STRUCTURE
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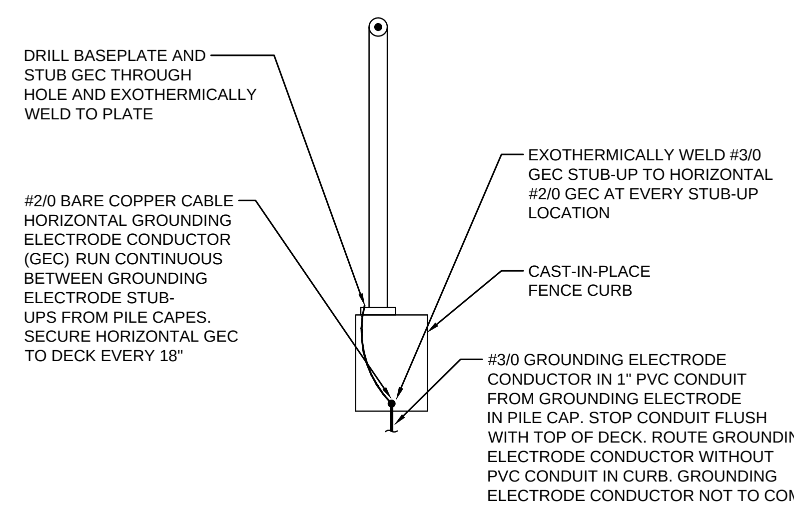

7 FENCE DETAIL
SCALE: N.T.S.

Jan. 18 2016 11:54 am V:\3400_ADC\CAD\SEGMENT E1\PLAN SHEETS\ELECTRICAL\ELE-SITE-DTL-600.dwg By: V-BegeJB

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 12
ELECTRICAL
FENCE GROUNDING DETAILS
(1 OF 3)

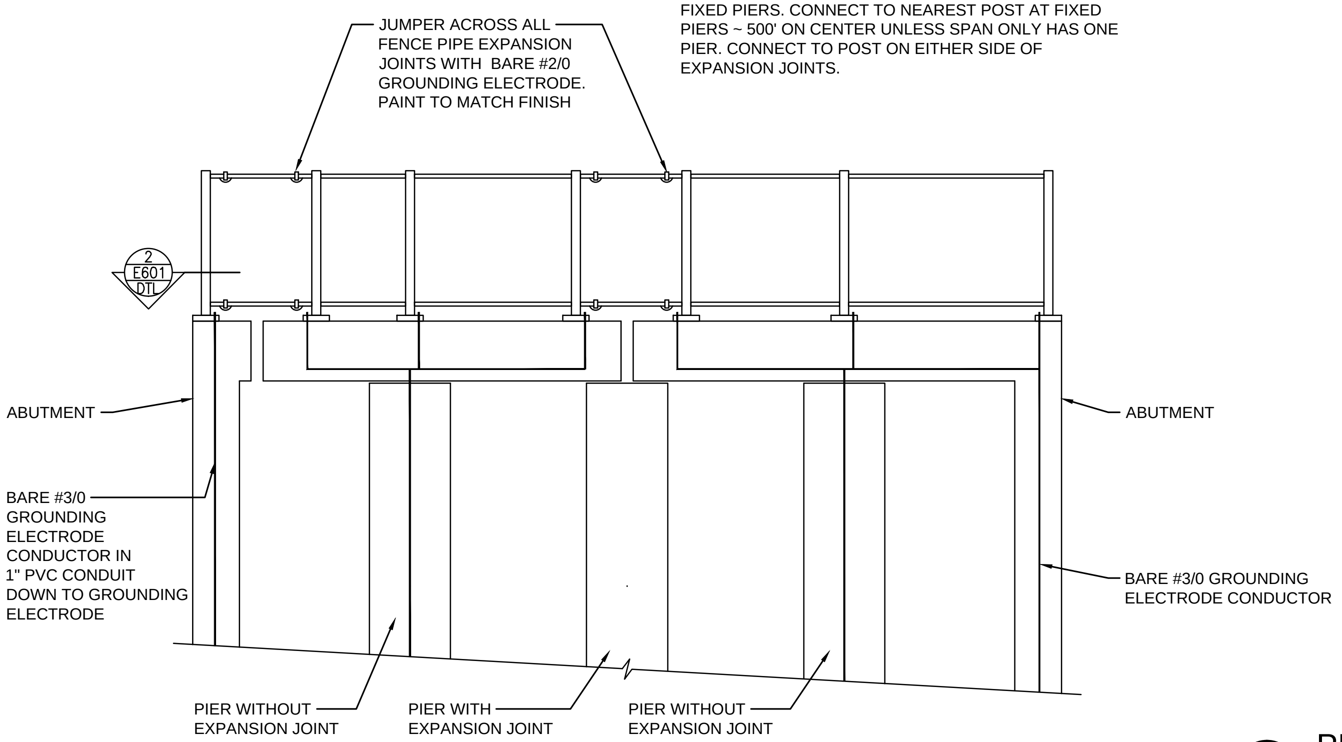
DISCIPLINE: ELECTRICAL

SHEET NAME: ELE-SITE-DTL-600

SHEET 462 OF 464

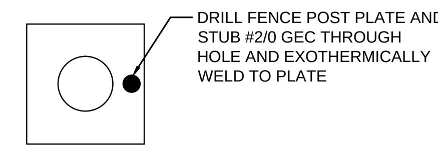
NOTE:

1. CONNECT GROUNDING ELECTRODE CONDUCTOR TO POST AT THE ENDS OF THE ABUTMENTS AND POSTS ON FIXED PIERS. CONNECT TO NEAREST POST AT FIXED PIERS ~ 500' ON CENTER UNLESS SPAN ONLY HAS ONE PIER. CONNECT TO POST ON EITHER SIDE OF EXPANSION JOINTS.



1 FENCE POST GEC CONNECTION ON BRIDGES

SCALE: N.T.S.

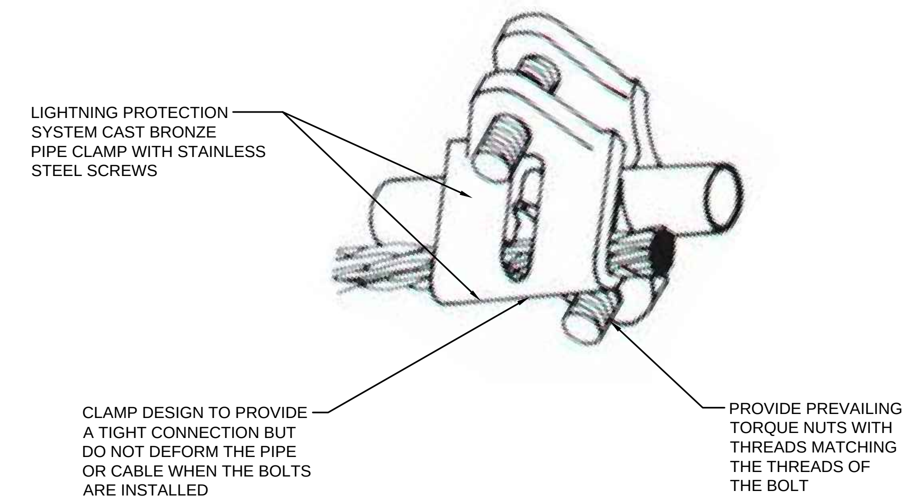


2 PLATE DETAIL

SCALE: N.T.S.

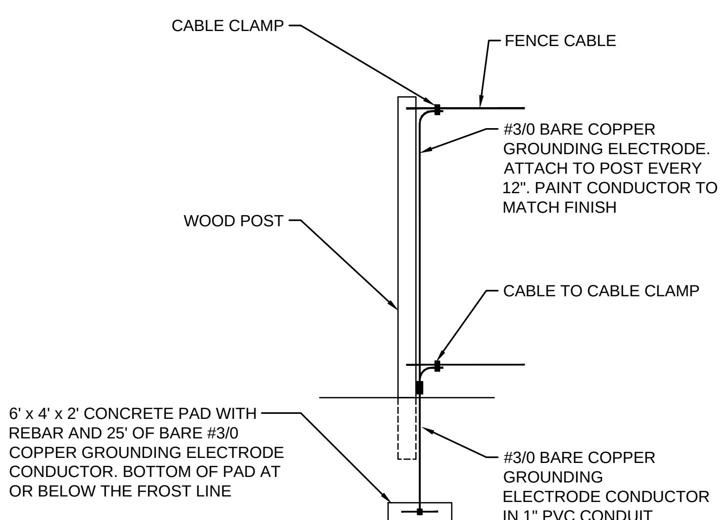
GENERAL NOTES:

1. CONNECT GROUNDING ELECTRODE CONDUCTOR TO POST AT THE ENDS OF THE ABUTMENTS AND POSTS ON FIXED PIERS. CONNECT TO NEAREST POST AT FIXED PIERS. CONNECT TO POST ON EITHER SIDE OF EXPANSION JOINTS.



3 FENCE POST CONNECTION

SCALE: N.T.S.

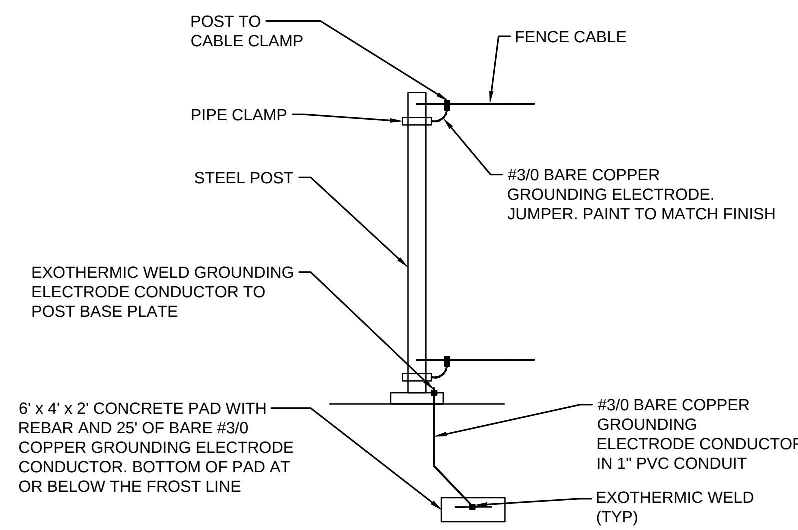


NOTE:

1. FOR POST WITHIN 15' OF THE CENTERLINE OF THE TRACK.

4 WOOD FENCE POST DETAIL

SCALE: N.T.S.

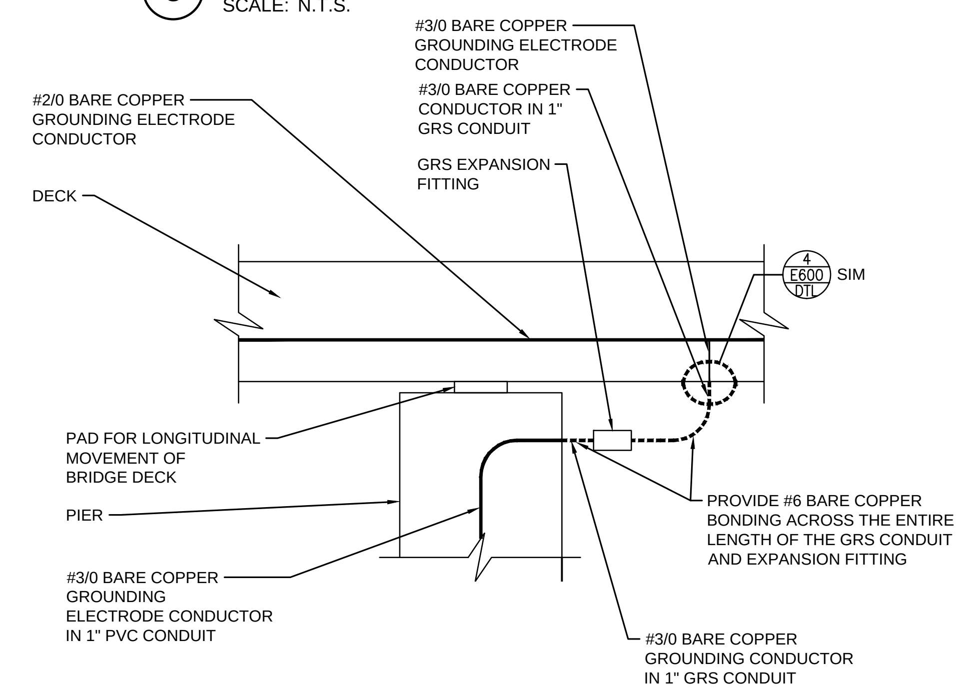


NOTES:

1. FOR POST WITHIN 15' OF THE CENTERLINE OF THE TRACK.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR AT POST ~ 400' ON CENTER. JUMPER ALL EXPANSION JOINTS.

5 METAL FENCE POST DETAIL

SCALE: N.T.S.



6 CONDUCTOR ATTACHMENT ON BRIDGE DECK WITH LONGITUDINAL MOVEMENT DETAIL

SCALE: N.T.S.

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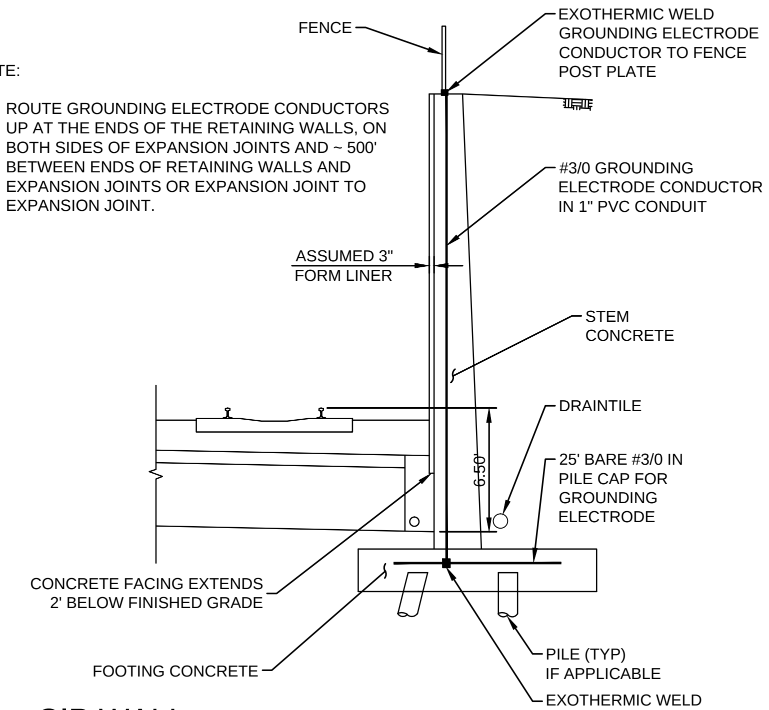
CIVIL - VOLUME 12
ELECTRICAL
FENCE GROUNDING DETAILS (2 OF 3)

DISCIPLINE: ELECTRICAL
SHEET NAME: ELE-SITE-DTL-601

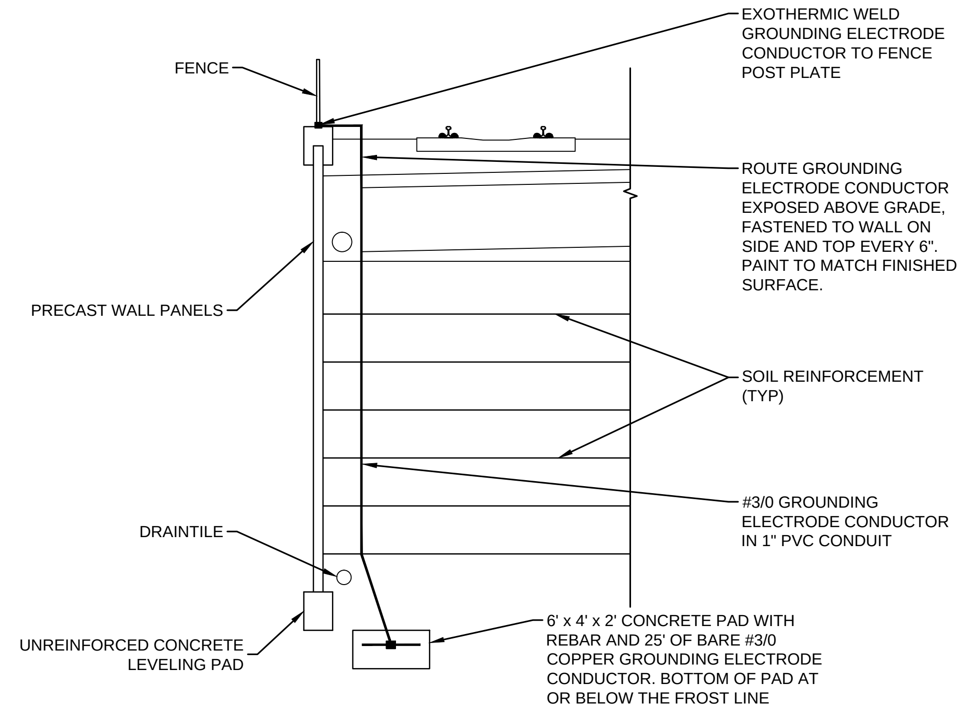
SHEET 463 OF 464

NOTE:

1. ROUTE GROUNDING ELECTRODE CONDUCTORS UP AT THE ENDS OF THE RETAINING WALLS, ON BOTH SIDES OF EXPANSION JOINTS AND ~ 500' BETWEEN ENDS OF RETAINING WALLS AND EXPANSION JOINTS OR EXPANSION JOINT TO EXPANSION JOINT.



1 CIP WALL
SCALE: N.T.S.



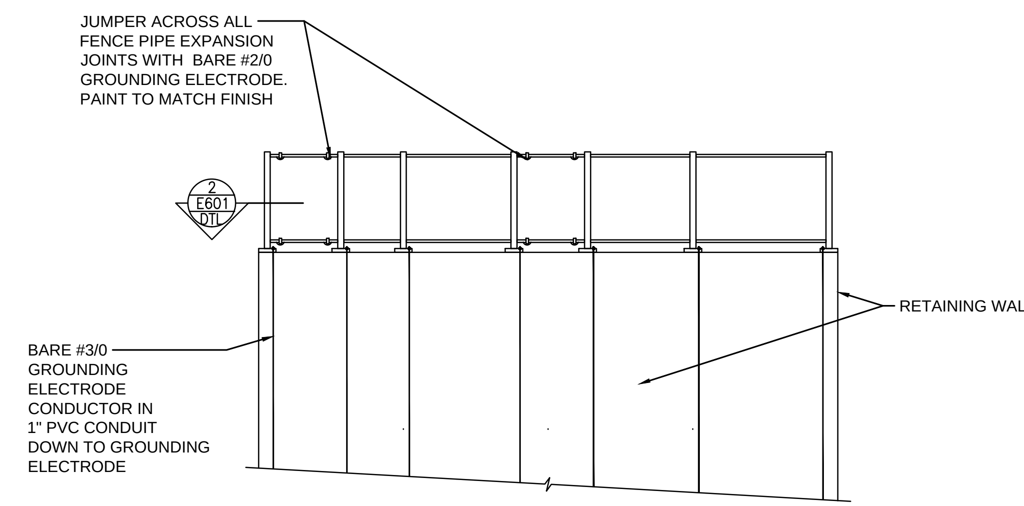
2 MSE WALL
SCALE: N.T.S.

NOTE:

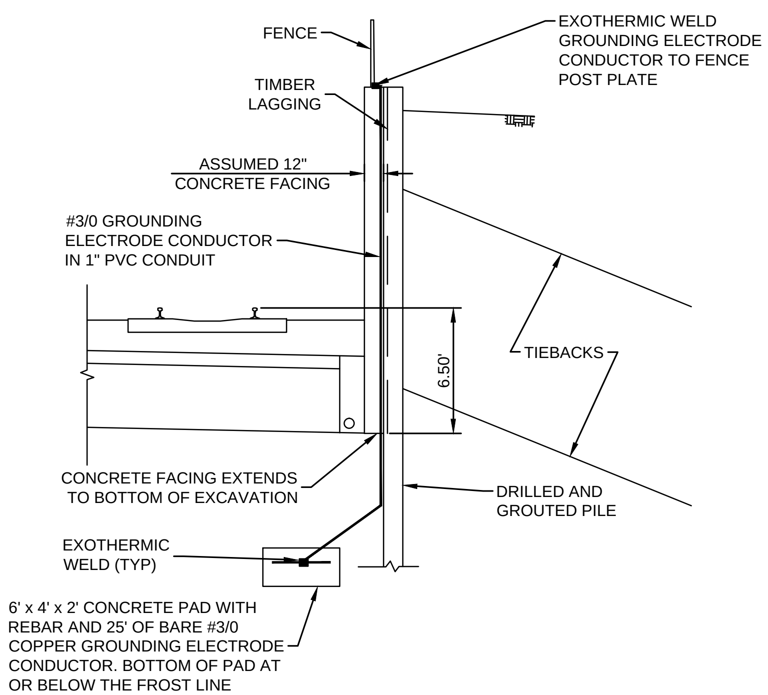
1. CONNECT GROUNDING ELECTRODE CONDUCTOR TO POST AT THE ENDS OF THE ABUTMENTS AND POSTS ON FIXED PIERS. CONNECT TO NEAREST POST AT FIXED PIERS ~ 500' ON CENTER UNLESS SPAN ONLY HAS ONE PIER. CONNECT TO POST ON EITHER SIDE OF EXPANSION JOINTS.

GENERAL NOTES:

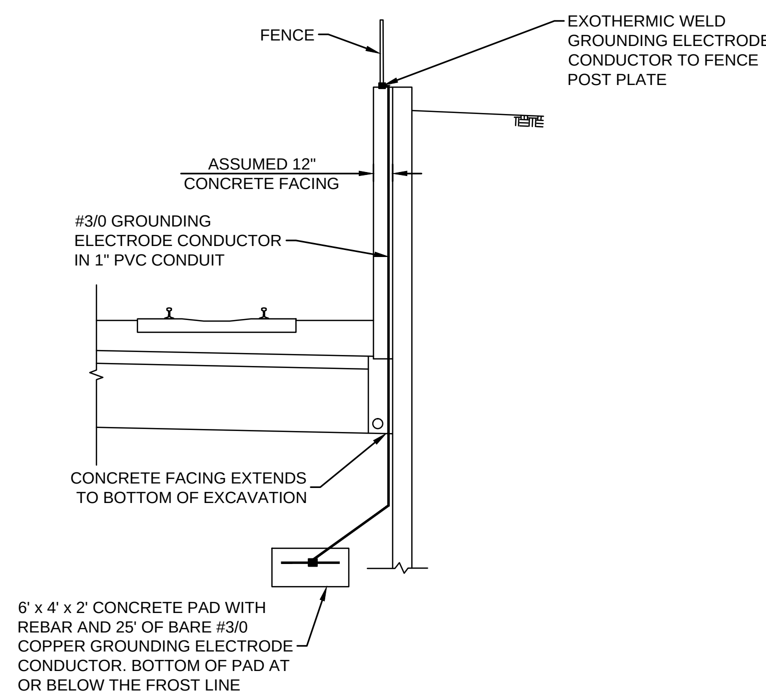
1. COPPER GROUNDING ELECTRODE CONDUCTORS ARE NOT TO COME IN CONTACT WITH REBARS.



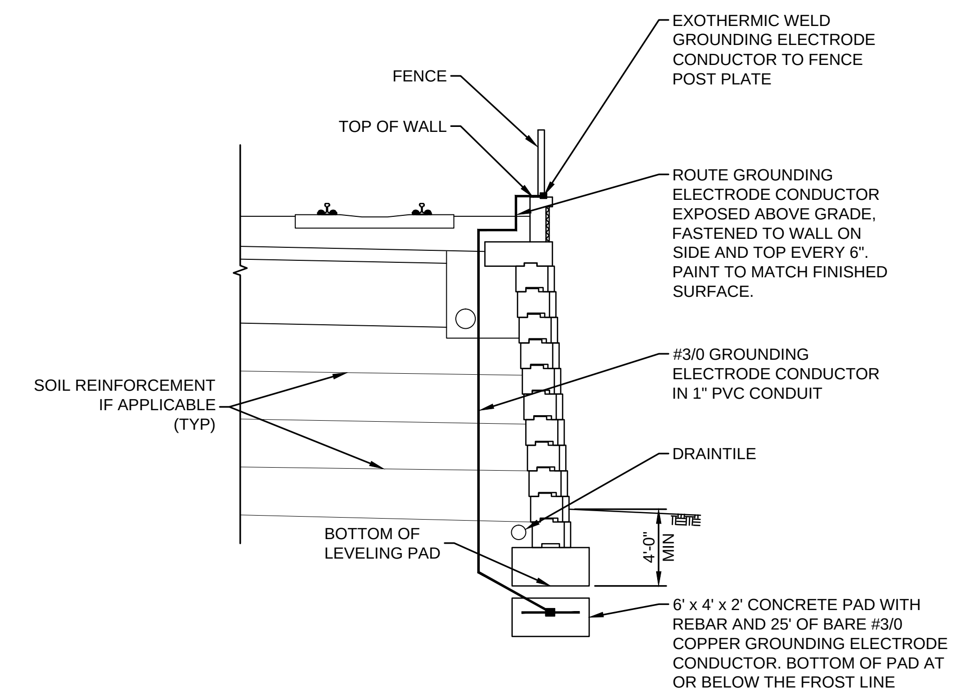
3 FENCE POST CONNECTION AT RETAINING WALLS
SCALE: N.T.S.



4 SOLDIER PILE WALL
SCALE: N.T.S.



5 SHEET PILE WALL
SCALE: N.T.S.



6 PMBW WALL
SCALE: N.T.S.

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CIVIL - VOLUME 12
ELECTRICAL
FENCE GROUNDING DETAILS
(3 OF 3)

DISCIPLINE: ELECTRICAL
SHEET NAME: ELE-SITE-DTL-602