Appendix J Utility Conflict Matrix

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High Desert Corridor - TO 4

Utility Conflict Matrix - Highway Only Option

Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High / Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other				
U-1																								
10	1	N/A	AT&T	Telephone Line (Abandoned)	-	3068+40	Avenue S	420	P	N/A	N/A	NO	3	LOW	Y				X		PC			
11	1	N/A	AT&T	2-Telephone Lines	-	3068+90	Avenue S	970	P	N/A	N/A	NO	8	LOW	N						NC			
12	1	N/A	SC Gas	2-30" HP Gas Line	-	3069+50	Avenue S	920	P	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required to confirm.
13	1	N/A	AT&T	Telephone Line	-	3120+50	Avenue R	320	P	N/A	N/A	NO	3	LOW	N						NC			
14	1	N/A	AT&T	Telephone Line	-	3155+00	Palmdale Blvd	1500	P	N/A	N/A	NO	3.5	LOW	Y			X			P			
15	1	N/A	AT&T	Telephone Line (Abandoned)	-	3155+00	Palmdale Blvd	955	P	N/A	N/A	NO	3	LOW	Y				X		A			
16	1	N/A	Freedom Communications	Fiber Optic Line	-	3068+80	Avenue S	970	P	N/A	N/A	NO	N/A	LOW	Y			X			P			
17	1	N/A	SC Edison	Overhead Power Line	3	3069+00	Avenue S	640	P	N/A	N/A	YES	N/A	-	Y			X			PC			
18	1	N/A	Palmdale Water District	16" Water Line	-	3069+10	Avenue S	860	P	N/A	N/A	NO	5 ±	-	N						NC			
19	1	N/A	Palmdale Water District	12" Water Line	-	3069+20	Avenue S	860	P	N/A	N/A	NO	N/A	-	N						NC			
20	1	N/A	Palmdale Water District	12" Water Line	-	3119+90	Avenue R	340	P	N/A	N/A	NO	3.5 ±	-	N						NC			
21	1	N/A	SC Edison	Underground Power Line	-	3069+65	Avenue S	385	P	N/A	N/A	NO	N/A	-	N						NC			
22	1	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	-	3095+75	Between Avenue S and Palmdale Blvd	230	P	N/A	N/A	YES	N/A	HIGH	Y			X			P			PP located outside of project limits.
23	1	N/A	SC Edison	Underground Power Line	-	3120+60	Avenue R	330	P	N/A	N/A	NO	N/A	-	N						NC			
24	1	N/A	Palmdale Water District	8" Water Line w/ 24" Casing	-	3100+25	Between Avenue S and Avenue E	265	P	N/A	N/A	NO	20 ±	-	N						NC			
25	1	N/A	AT&T	Telephone Line	-	3154+70	Palmdale Blvd	1500	P	N/A	N/A	NO	3	LOW	N						NC			
U-2																								
31	2	N/A	SC Gas	4" Gas Line	-	3239+00	Rancho Vista Blvd	1400	P	N/A	N/A	NO	N/A	LOW	N						NC			
32	2	N/A	City of Palmdale	12" Sewer Line	-	3239+20	Rancho Vista Blvd	1400	P	N/A	N/A	NO	8 ±	-	N						NC			
33	2	N/A	AT&T	Telephone Line	-	3239+70	Rancho Vista Blvd	1400	P	N/A	N/A	NO	N/A	LOW	N						NC			
34	2	N/A	SC Gas	4" Gas Line	-	3255+00	10th and SR-14 (loop on-ramp)	1020	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			
35	2	N/A	Time Warner Cable	Cable Line	-	3256+10	10th and SR-14 (loop on-ramp)	710	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
36	2	N/A	AT&T	Buried Telephone Line	-	3259+00	10th Street	1380	P	N/A	N/A	NO	4.5	LOW	Y				X		PC			
37	2	N/A	SC Gas	6" HP Gas Line	-	3259+70	10th Street	1380	P	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance Possible casing necessary
38	2	N/A	AT&T	Buried Telephone Line (Abandoned)	-	3260+10	10th Street	1400	P	N/A	N/A	NO	3	LOW	Y	X					A			
39	2	N/A	SC Gas	8" HP Gas Line	-	3277+80	Avenue O-8	350	P	N/A	N/A	NO	N/A	HIGH	N						NC			
40	2	N/A	AT&T	Buried Telephone Line	-	3292+00	Avenue O -4	280	P	N/A	N/A	NO	3	LOW	N						NC			
41	2	N/A	AT&T	Telephone Line	-	3305+30	Avenue O	320	P	N/A	N/A	NO	3	LOW	N						NC			
42	2	N/A	Level 3 Communications	6-2" HDPE Conduits	-	3305+30	Avenue O	280	P	N/A	N/A	NO	N/A	LOW	N						NC			
43	2	N/A	AT&T	Telephone Line	-	3305+40	Avenue O	50	P	N/A	N/A	NO	3	LOW	N						NC			
44	2	N/A	AT&T	Telephone Line	-	3318+00	Avenue N-12	280	P	N/A	N/A	NO	3	LOW	N						NC			
45	2	N/A	AT&T	Telephone Line	-	3331+90	Avenue N-8	550	P	N/A	N/A	NO	3	LOW	N						NC			
46	2	N/A	Time Warner Cable	Cable Line	-	3332+20	Avenue N-8	320	P	N/A	N/A	NO	N/A	LOW	N						NC			
47	2	N/A	AT&T	Telephone Line	-	3358+30	Avenue N	190	P	N/A	N/A	NO	4	LOW	N						NC			
48	2	N/A	Time Warner Cable	Cable Line	-	3358+90	Avenue N	190	P	N/A	N/A	NO	N/A	LOW	N						NC			
49	2	N/A	West Side Park Mutual Water Company	8" Water Line	-	3305+50	Avenue O	280	P	N/A	N/A	NO	N/A	-	Y			X			P			Pothole required for vert. clearance Possible casing necessary
50	2	N/A	El Dorado Mutual Water Company	8" Water Line	-	3305+20	Avenue O	280	P	N/A	N/A	NO	N/A	-	Y			X			P			Pothole required for vert. clearance Possible casing necessary
51	2	N/A	El Dorado Mutual Water Company	6" Water Line	-	3355+80	Avenue N	190	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required to confirm (horiz).
52	2	N/A	Antelope Valley-East Kern Water Agency	30" Water Line	-	3355+80	Avenue N	190	P	N/A	N/A	NO	5 ±	-	Y				X		PC			Pothole required to confirm (horiz).
53	2	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	7	3239+50	Rancho Vista Blvd	1095	P	N/A	N/A	YES	N/A	HIGH	Y				X		PC			Line running underneath SR-14
54	2	N/A	SC Edison	Underground Power Line	-	3235+85 to 3242+00	Along SR-14	615	P	N/A	N/A	NO	N/A	-	N						NC			
55	2	N/A	SC Edison	Underground Power Line	-	3242+45	Rancho Vista Blvd	30	P	N/A	N/A	NO	N/A	-	Y		X				RD			
56	2	N/A	SC Edison	Underground Power Line	-	79+00 to 83+00	10th Street	400	P	N/A	N/A	NO	N/A	-	Y				X		PC			
57	2	N/A	SC Edison	Underground Power Line	-	3260+20	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y		X				RD			
58	2	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	6	3260+00	10th Street	1375	P	N/A	N/A	YES	N/A	HIGH	Y		X				RB			
59	2	N/A	SC Edison	Underground Power Line	-	3277+55	Avenue O-8	40	P	N/A	N/A	NO	N/A	-	N						NC			
60	2	N/A	SC Edison	Overhead Power Line	0	3292+33	Avenue O-4	280	P	N/A	N/A	YES	N/A	-	Y				X		PC			PP located outside of RW
61	2	N/A	SC Edison	4 kv Overhead Power Line	6	3359+25	Avenue N	1175	P	N/A	N/A	YES	N/A	HIGH	Y			X			P			
62	2	N/A	LA County Waterworks District	12" Water Line	-	3230+70	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required to confirm (horiz).
63	2	N/A	LA County Waterworks District	12" Water Line	-	3239+40	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required to confirm (horiz).
64	2	N/A	LA County Waterworks District	12" Water Line Abandoned	-	3239+65	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required to confirm (horiz).
65	2	N/A	LA County Waterworks District	3 MG Reservior Tank	-		Between Rancho Vista and Ave O-8		P	N/A	N/A	NO	N/A	-	Y				X		PC			Approx. 20 ft away from proposed RW
66	2	N/A	LA County Waterworks District	24" Water Line	-	3259+70	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance

P - Proposed Alternative
A - Proposed Variation A
B - Proposed Variation B
D - Proposed Variation D
E - Proposed Variation E

Notes:
OH 66kv/4kv assigned to high risk
RD - UG Utilities
RB - OH Utilities

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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
87	2	N/A	LA County Waterworks District	12" Water Line	-	3259+80	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
88	2	N/A	LA County Waterworks District	12" Water Line	-	3259+15	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
89	2	N/A	LA County Waterworks District	12" Water Line	-	3258+95	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
70	2	N/A	LA County Waterworks District	8" Water Line Abandoned	-	3258+85	10th Street	1075	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
71	2	N/A	LA County Waterworks District	12" Water Line	-	3275+60	Avenue Q-8	345	P	N/A	N/A	NO	N/A	-	N						NC			Line running underneath SR-14
72	2	N/A	West Side Park Mutual Water Company	8" Water Line	-	3278+00	Avenue Q-8	250	P	N/A	N/A	NO	N/A	-	N						NC			Line running underneath SR-15
73	2	N/A	AT&T	Telephone Line (Abandoned)	-	356+00	Avenue N	290	P	N/A	N/A	NO	3	LOW	N						NC			
74	2	N/A	SC Edison	Overhead Power Line	2	3332+85	Avenue N-8	320	P	N/A	N/A	YES	N/A	-	Y				X		PC			
U-3																								
90	3	N/A	SC GAS	2" Gas Line	-	3220+00	W Avenue P-4	310	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
91	3	N/A	City of Palmdale	39" Sewer Line	-	3220+00	W Avenue P-4	280	P	N/A	N/A	NO	10 ±	-	N						NC			Pothole required to confirm (vert)
92	3	N/A	City of Palmdale	33" Sewer Line	-	3203+00	Along west side of SR-14	1660	P	N/A	N/A	NO	5 ±	-	Y				X		PC			Pothole required for vert. clearance
93	3	N/A	SC Edison	Lighting Conduits	10 Light Poles	N/A	Avenue P-8	1800	P	N/A	N/A	NO	N/A	-	Y			X			P			Underneath proposed ramps
94	3	N/A	SC Edison	Lighting Conduits	11 Light Poles	N/A	Avenue P-8	1800	P	N/A	N/A	NO	N/A	-	Y			X			P			Underneath proposed ramps
95	3	N/A	City of Palmdale	33" Sewer Line	-	3202+80	Avenue P-8	1560	P	N/A	N/A	NO	4 ±	-	N						NC			
96	3	N/A	AT&T	Telephone Line	-	3175+50	Avenue Q	300	P	N/A	N/A	NO	3	LOW	N						NC			
97	3	N/A	SC GAS	6" HP Gas Line	-	3175+80	Avenue Q	360	P	N/A	N/A	NO	N/A	HIGH	N						NC			
98	3	N/A	City of Palmdale	10" / 12" Sewer Line	-	3175+80	Avenue Q	360	P	N/A	N/A	NO	7 ±	-	N						NC			
99	3	N/A	Time Warner Cable	Cable Line	-	3176+10	Avenue Q	360	P	N/A	N/A	NO	N/A	LOW	N						NC			
100	3	N/A	City of Palmdale	36" Sewer Line	-	275+70	15th Street	380	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
101	3	N/A	Palmdale Water District	12" Water Line	-	196+00	Division St	450	P	N/A	N/A	NO	3.5 ±	-	N						NC			
102	3	N/A	SC Edison	4 kv Overhead Power Line	4	196+20	Division St	440	P	N/A	N/A	YES	N/A	-	Y		X				RB			
103	3	N/A	City of Palmdale	15" Sewer Line	-	195+90	Division St	460	P	N/A	N/A	NO	8 ±	-	N						NC			
104	3	N/A	SC Edison	Overhead Power Line	2	208+80	3rd Street	310	P	N/A	N/A	YES	N/A	-	Y		X				RB			
105	3	N/A	Palmdale Water District	12" Water Line	-	209+00	3rd Street	310	P	N/A	N/A	NO	N/A	-	N						NC			
106	3	N/A	City of Palmdale	8" VCP Sewer	-	209+10	3rd Street	310	P	N/A	N/A	NO	9 ±	-	N						NC			
107	3	N/A	SC GAS	4" Gas Line	-	209+10	3rd Street	310	P	N/A	N/A	NO	N/A	LOW	N						NC			
108	3	N/A	SC Edison	Overhead Power Line	3	222+90	Sierra Highway	360	P	N/A	N/A	YES	N/A	-	Y		X				RB			
109	3	N/A	City of Palmdale	42" Sewer Line	-	247+90	East of 10th to 15th Street	2090	P, A	N/A	N/A	NO	9 ±	-	N						NC			Pothole required to confirm (vert)
110	3	N/A	AT&T	Telecommunications Cable Line	-	223+20	Sierra Highway	310	P	N/A	N/A	NO	4.00	-	N						NC			
111	3	N/A	Level 3 Communications	Fiber Optic Line	-	225+50	Sierra Highway	300	P	N/A	N/A	NO	N/A	LOW	N						NC			
112	3	N/A	Sprint	Fiber Optic Line	-	225+90	Sierra Highway	300	P	N/A	N/A	NO	4	LOW	N						NC			
113	3	N/A	Time Warner Cable	Telecommunications Line	-	235+50	8th Street	480	P, A	N/A	N/A	NO	N/A	LOW	N						NC			
114	3	N/A	AT&T	Telecommunications Cable Line	-	235+90	8th Street	480	P, A	N/A	N/A	NO	3.5	LOW	N						NC			
115	3	N/A	SC GAS	2" Gas Line	-	236+20	8th Street	260	P, A	N/A	N/A	NO	N/A	LOW	N						NC			
116	3	N/A	Level 3 Communications	Fiber Optic Line	-	236+20	8th Street	490	P, A	N/A	N/A	NO	N/A	LOW	N						NC			
117	3	N/A	SC Edison	Overhead Power Line	1	236+40	8th Street	180	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
118	3	N/A	SC Edison	Electroliers	3 Light Poles	240+90	10th Street	280	P, A	N/A	N/A	NO	N/A	-	Y		X				RD			
119	3	N/A	AT&T	Telecommunications Cable Line	-	240+90	10th Street	620	P, A	N/A	N/A	NO	4	LOW	Y		X				RD			
120	3	N/A	SC Edison	Overhead Power Line	6	249+10	10th Street	810	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
121	3	N/A	SC GAS	10" HP Gas Line	-	249+20	10th Street	850	P, A	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
122	3	N/A	Palmdale Water District	12" Water Line	-	249+20	10th Street	720	P, A	N/A	N/A	NO	N/A	-	Y		X				RD			
123	3	N/A	Palmdale Water District	6" Water Line	-	249+20	10th Street	720	P, A	N/A	N/A	NO	N/A	-	Y		X				RD			
124	3	N/A	SC GAS	4" Gas Line	-	249+30	10th Street	850	P, A	N/A	N/A	NO	N/A	LOW	Y		X				RD			
125	3	N/A	SC Edison	4kv And Communication Overhead Power Line	5	249+70	10th Street	1000	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
127	3	N/A	City of Palmdale	18" Sewer	-	240+90	East of 10th to 15th Street	1810	P, A	N/A	N/A	NO	7 ±	-	Y				X		PC			Pothole required to confirm (vert).
128	3	N/A	City of Palmdale	18" Sewer	-	276+10	15th Street	200	P, A	N/A	N/A	NO	8 ±	-	Y				X		PC			Pothole required to confirm (vert)
129	3	N/A	Palmdale WaterDistrict	4" / 6" Water Line	-	263+00	Between 12th and 20th Street	4870	P, A	N/A	N/A	NO	N/A	-	Y		X				RD			
130	3	N/A	SC GAS	4" Gas Line	-	275+80	15th Street	380	P, A	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
131	3	N/A	Palmdale Water District	12" Water Line	-	276+10	15th Street	320	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
132	3	N/A	AT&T	Telecommunications Cable Line	-	276+40	15th Street	600	P, A	N/A	N/A	YES	N/A	LOW	Y		X				RB			
133	3	N/A	SC Edison	Overhead Power Line	4	276+40	15th Street	600	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
134	3	N/A	AT&T	Telecommunications Cable Line	-	287+00	17th Street	390	P, A	N/A	N/A	NO	2.5	LOW	Y				X		PC			Pothole required to confirm (vert) May need to be relocated vertically
135	3	N/A	SC GAS	2" Gas Line	-	289+60	17th Street	400	P, A	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
136	3	N/A	Palmdale Water District	12" Water Line	-	290+00	17th Street	520	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance

P - Proposed Alternative
A - Proposed Variation A
B - Proposed Variation B
D - Proposed Variation D
E - Proposed Variation E
Notes:
OH 66kv/4kv assigned to high risk
RD - UG Utilities
RB - OH Utilities

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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U- Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
137	3	N/A	SC GAS	4" Gas Line	-	302+60	20th Street	680	P, A	N/A	N/A	NO	N/A	LOW	Y		X				RD			
138	3	N/A	AT&T	Telecommunications Cable Line	-	302+80	20th Street	750	P, A	N/A	N/A	NO	3.5	LOW	Y		X				RD			
139	3	N/A	Palmdale Water District	12" Water Line	-	303+10	20th Street	690	P, A	N/A	N/A	NO	N/A	-	Y		X				RD			
140	3	N/A	SC Edison	4 kv Overhead Power Line	5	303+20	20th Street	1580	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
142	3	N/A	SC GAS	4" Gas Line	-	303+10	20th Street	190	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
143	3	N/A	SC GAS	4" Gas Line	-	302+60	Avenue P-8	770	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
144	3	N/A	SC Edison	66 kv and 4 kv Transmission Overhead Power Line	2	3176+30	Avenue Q	360	P	N/A	N/A	YES	N/A	HIGH	Y				X		PC			
145	3	N/A	SC Edison	Underground Communication	-	3176+00	Avenue Q	360	P	N/A	N/A	NO	N/A	-	N						NC			
146	3	N/A	SC Edison	Underground Power Line	-	3189+00	Between Avenue Q and Avenue P-8	115	P	N/A	N/A	NO	N/A	-	N						NC			
147	3	N/A	LA County Waterworks District	12" Water Line	-	177+15	Avenue Q	100	P	N/A	N/A	NO	N/A	-	N						NC			
148	3	N/A	LA County Waterworks District	16" Water Line	-	3202+25	Avenue P-8/Division St	2260	P	N/A	N/A	NO	N/A	-	Y				X		PC			
149	3	N/A	LA County Waterworks District	12" Water Line	-	221+40	Avenue P-4	265	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required for vert. clearance
U-4																								
151	4	N/A	AT&T	Telecommunications Cable Line	-	329+70	25th Street	380	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
152	4	N/A	Palmdale Water District	12" Water Line	-	330+00	25th Street	380	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
153	4	N/A	Palmdale Water District	16" Water Line	-	330+30	25th Street	380	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
154	4	N/A	AT&T	Telecommunications Cable Line	-	356+60	30th Street	630	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
155	4	N/A	City of Palmdale	15" / 18" Sewer Line (partially abandoned)	-	357+00	30th Street	850	P, A	N/A	N/A	NO	8 ±	-	N						NC			Pothole required to confirm (vert).
156	4	N/A	Palmdale Water District	20" Water Line	-	357+30	30th Street	850	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
157	4	N/A	SC Edison	Underground Power Line	-	357+60	30th Street	850	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
158	4	N/A	Palmdale Water District	12" Water Line	-	370+70	Between 30th and 35th Street	470	P, A	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
159	4	N/A	City of Palmdale	15" Sewer Line	-	384+00	35th Street	300	P, A	N/A	N/A	NO	8 ±	-	N						NC			Pothole required to confirm (vert).
160	4	N/A	City of Palmdale	27" Sewer Line	-	384+20	35th Street	300	P, A	N/A	N/A	NO	10 ±	-	N						NC			Pothole required to confirm (vert).
161	4	N/A	SC Gas	3" Gas Line	-	397+60	37th Street	480	P, A	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
162	4	N/A	SC Edison	Comm, & 66 kv Overhead Power Line	4	411+10	40th Street	860	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
163	4	N/A	City of Palmdale	12" Sewer Line	-	437+40	45th Street	300	P, A	N/A	N/A	NO	8 ±	-	N						NC			Pothole required to confirm (vert).
164	4	N/A	SC Edison	4 kv Overhead Power Line	5	410+50	40th Street	650	P, A	N/A	N/A	YES	N/A	-	Y		X				RB			
U-5																								
171	5	N/A	City of Palmdale	15" Sewer Line	-	493+90	56th Street	330	P, A	N/A	N/A	NO	10 ±	-	N						NC			Pothole required to confirm (vert).
U-6																								
181	6	N/A	SC Edison	Communication Overhead Power Line	7	679+10	90th Street	1300	P	N/A	N/A	YES	N/A	-	Y		X				RB			
182	6	N/A	SC Edison	4 kv Overhead Power Line	6	679+70	90th Street	1300	P	N/A	N/A	YES	N/A	-	Y		X				RB			
183	6	N/A	LA County Waterworks District	Water Main	-	679+30	90th Street	1300	P	N/A	N/A	NO			N						NC			Pothole required for vert. clearance
U-7																								
191	7	N/A	City as-builts	Tel Line	-	789+30	110th Street	590	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
192	7	N/A	Antelope Valley E Kern County	24" Water Line	-	789+70	110th Street	590	P	N/A	N/A	NO	3 ±	-	Y				X		PC			Pothole required for vert. clearance
193	7	N/A	SC Gas	12" HP Gas Line	-	789+90	110th Street	590	P	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance
194	7	N/A	SC Edison	66 kv Overhead Power Line	3	790+10	110th Street	590	P	N/A	N/A	YES	N/A	-	Y		X				RB			
195	7	N/A	City as-builts	Tel Line	-	806+00	E Avenue Q	860	P	N/A	N/A	YES	N/A	-	Y		X				RB			
196	7	N/A	SC Edison	Overhead Power Line	4	806+00	E Avenue Q	860	P	N/A	N/A	YES	N/A	-	Y		X				RB			
197	7	N/A	Level 3 Communications	Fiber Optic Line	-	853+70	E Palmdale Ave	1190	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
198	7	N/A	SC Edison	66 kv Overhead Power Line	5	853+70	E Palmdale Ave	1190	P	N/A	N/A	YES	N/A	-	Y		X				RB			
199	7	N/A	Time Warner	Telecommunications Line	-	854+70	E Palmdale Ave	1190	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
200	7	N/A	SC Edison	Overhead Power Line	3	859+70	121st Street	520	P	N/A	N/A	YES	N/A	-	Y		X				RB			
201	7	N/A	SC Edison	12 kv Overhead Power Line	2	789+20	110th Street	590	P	N/A	N/A	YES	N/A	-	Y		X				RB			
U-9																								
226	9	N/A	SC Edison	Overhead Power Line	2	1100+00	165th Street	500	P	N/A	N/A	YES	N/A	–	Y		X				RB			
227	9	N/A	SC Edison	Overhead Power Line	6	1125+40	170th Street	1540	P	N/A	N/A	YES	N/A	–	Y		X				RB			
228	9	N/A	SC Edison	Overhead Power Line	6	1131+50	171st Street	1520	P	N/A	N/A	YES	N/A	–	Y		X				RB			
U-10																								
241	10	N/A	SC Edison	Overhead Power Line	1	1215+00	187th Street	500	P, D	N/A	N/A	YES	N/A	–	Y		X				RB			PP within R/W; outside of work
243	10	N/A	SC Edison	Overhead Power Line	2	1284+60	200th Street	500	P	N/A	N/A	YES	N/A	–	Y		X				RB			PPs within R/W; outside of work

P - Proposed Alternative
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E - Proposed Variation E
Notes:
OH 66kv/4kv assigned to high risk
RD - UG Utilities
RB - OH Utilities

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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top (ft)	Risk Level High Low	Impact? Y/N	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC Potential Conflict	Resp. Party U- Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead				Remove	Relocate	Protect in Place	Potential Conflict	Other			
244	10	N/A	SC Edison	Overhead Power Line	8	1306+70	E Avenue Q-12	1820	P	N/A	N/A	YES	N/A	–	Y		X				RB			2 PPs need relocation
245	10	N/A	SC Edison	Overhead Power Line	3	1311+30	East of 205th St	380	P	N/A	N/A	YES	N/A	–	Y		X				RB			1 PP needs relocation
246	10	N/A	SC Edison	Overhead Power Line	0	1315+10	205th Street	140	P	N/A	N/A	YES	N/A	–	Y		X				RB			
U-11																								
251	11	N/A	SC Edison	Overhead Power Line	8	1336+60	West of Largo Vista Rd (210th St)	1870	D	N/A	N/A	YES	N/A	–	Y		X				RB			
252	11	N/A	SC Edison	Overhead Power Line	4	1340+30	Largo Vista Rd (210th St)	1040	D	N/A	N/A	YES	N/A	–	Y		X				RB			
253	11	N/A	SC Edison	Overhead Power Line	2	1353+10	215th Street	270	D	N/A	N/A	YES	N/A	–	Y		X				RB			
254	11	N/A	SC Edison	Overhead Power Line	3	1365+10	Between 215th and 217th Street	500	D	N/A	N/A	YES	N/A	–	Y		X				RB			
255	11	N/A	SC Edison	Overhead Power Line	7	1385+00	Between 217th and 230th Street	2770	D	N/A	N/A	YES	N/A	–	Y		X				RB			
256	11	N/A	SC Edison	Overhead Power Line	1	1400+40	220th Street	230	P, D	N/A	N/A	YES	N/A	–	Y		X				RB			
257	11	N/A	SC Edison	Overhead Power Line	1	1444+80	230th Street	650	P, D	N/A	N/A	YES	N/A	–	Y		X				RB			
U-12																								
261	12	N/A	SC Edison	Overhead Power Line	17	1502+00	240th Street	1540	P	N/A	N/A	YES	N/A	-	Y		X				RB			
262	12	N/A	SC Edison	Overhead Power Line	1	1502+00	240th Street	90	P	N/A	N/A	YES	N/A	-	Y		X				RB			
U-13																								
511	13	N/A	Verizon	Telecommunications Line	-	1769+00	Silver Lake Road	500	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
U-14																								
271	14	N/A	SC GAS	30" HP Gas Line	-	1880+60	Rancho Rd	1070	B	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required to confirm (vert).
272	14	N/A	SC GAS	3" Gas Line	-	1886+40	Sheet Creek Rd	1500	B	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
512	14	N/A	Verizon	Overhead Line	-	1876+00	Sheet Creek Rd	8292	B	N/A	N/A	YES	N/A	LOW	Y		X				RB			
						00+00																		
U-16																								
301	16	N/A	Mojave Water Agency	48" Water Line	-	2199+60	Richardson Road	500	P	N/A	N/A	NO	3	–	Y				X		PC			Pothole required to confirm (vert).
U-17																								
311	17	N/A	SC Gas	30" HP Gas Line	-	2252+50	Koala Road	1300	P	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance
312	17	N/A	City of Adelanto	8" PVC Water Line	-	2265+90	Muskrat Ave	70	P	N/A	N/A	NO	4	–	N						NC			
313	17	N/A	DWP	Overhead Power Line	1 Tower	2275+10	Between Muskrat and Racoon Ave	880	P	N/A	N/A	YES	N/A	HIGH	Y		X				RB			1 Tower located within project
314	17	N/A	City of Adelanto	18" Water Line	-	2279+40	Racoon Ave	500	P	N/A	N/A	NO	4	–	Y				X		PC			Pothole required for vert. clearance
315	17	N/A	Southwest Gas	Distribution Gas Line	-	227955+10	Racoon Ave	500	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
316	17	N/A	City of Adelanto	12" PVC Sewer	-	2279+60	Racoon Ave	500	P	N/A	N/A	NO	10	–	N						NC			Pothole required to confirm (vert).
317	17	N/A	SC Edison	Overhead Power Line	2	2279+90	Racoon Ave	400	P	N/A	N/A	YES	N/A	–	Y		X				RB			
318	17	N/A	Continental Tele Co.	Telecommunications Line	-	2305+80	Aster Road	630	P, E	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required to confirm (vert).
319	17	N/A	City of Adelanto	12" PVC Sewer	-	2306+30	Aster Road	640	P, E	N/A	N/A	NO	9	–	N						NC			Pothole required to confirm (vert).
U-18																								
331	18	N/A	Southwest Gas	Distribution Gas Line	-	815+30	Bellflower Street	500	P, E	N/A	N/A	NO	N/A	LOW	Y		X				RD			
332	18	N/A	SC Edison	Overhead Power Line	8	843+70	HWY 395	1300	P, E	N/A	N/A	YES	–	–	Y		X				RB			
333	18	N/A	SC Edison	Overhead Power Line	3	868+30	Adelanto Road	430	P, E	N/A	N/A	YES	–	–	Y		X				RB			
334	18	N/A	N/A (per City of Adelanto as-builts)	2" Gas Line	-	868+40	Adelanto Road	430	P, E	N/A	N/A	NO	3'-1"	LOW	Y		X				RD			
335	18	N/A	Time Warner Telecom	Telecommunications Duct Bank	-	868+40	Adelanto Road	380	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
336	18	N/A	City of Adelanto	8" Water Line	-	868+40	Adelanto Road	410	P, E	N/A	N/A	NO	1'	–	Y		X				RD			
337	18	N/A	Level 3 Communications	Fiber Optic Cable Line	-	868+40	Adelanto Road	430	P, E	N/A	N/A	YES	–	–	Y		X				RB			
338	18	N/A	Kinder Morgan	14" High Pressure Petrolium Pipe	-	868+50	Adelanto Road	430	P, E	N/A	N/A	NO	5.3	HIGH	Y		X				RD			
339	18	N/A	Kinder Morgan	8" High Pressure Petrolium Pipe	-	868+60	Adelanto Road	430	P, E	N/A	N/A	NO	5.9	HIGH	Y		X				RD			
340	18	N/A	Southwest Gas	2" Distribution Gas Line	-	868+70	Adelanto Road	410	P, E	N/A	N/A	NO	3.0	LOW	Y		X				RD			
341	18	N/A	Southwest Gas	14" High Pressure Gas Line	-	868+80	Adelanto Road	410	P, E	N/A	N/A	NO	4.0	HIGH	Y		X				RD			
342	18	N/A	DWP	Overhead Power Line	1 Tower	2445+65	Between Adelanto Rd and Phantom West	820	E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
343	18	N/A	DWP	Overhead Power Line	1 Tower	2450+30	Between Adelanto Rd and Phantom West	830	E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
344	18	N/A	DWP	Overhead Power Line	1 Tower	2455+00	Between Adelanto Rd and Phantom West	820	E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
345	18	N/A	Southern California Gas	30" Gas Line	-	2475+00	Between Adelanto Rd and Phantom West	1370	E	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance
346	18	N/A	Southern California Gas	Gas Line	-	2503+50	Phantom West	1280	E	N/A	N/A	NO	N/A	N/A	Y		X				RD			
347	18	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunications Line	-	928+00	Air Expressway	3250	P	N/A	N/A	YES	–	–	Y		X				RB			
348	18	N/A	Time Warner	4-1" Telecommunications Innerducts	-	928+10	Air Expressway	3240	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
349	18	N/A	City of Adelanto	24" Water Line	-	928+20	Air Expressway	3230	P	N/A	N/A	NO	3.5' MIN	–	Y		X				RD			
350	18	N/A	Kinder Morgan	6-4" High Pressure Petrolium Pipe	-	928+60	Air Expressway	2600	P	N/A	N/A	NO	N/A	HIGH	Y		X				RD			

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E - Proposed Variation E
Notes:
OH 66kv/4kv assigned to high risk
RD - UG Utilities
RB - OH Utilities

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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact*	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
351	18	N/A	City of Adelanto	12" Water Line	-	930+40	Air Expressway	3020	P	N/A	N/A	NO	N/A	–	Y		X				RD			
352	18	N/A	Kinder Morgan	6" High Pressure Petrolium Pipe	-	930+40	Air Expressway	2360	P	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
353	18	N/A	N/A (per City of Adelanto as-builts)	Telecommunications Duct Bank	-	930+90	Air Expressway	2980	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
354	18	N/A	City of Adelanto	18" Water Line	-	933+80	Air Expressway	2700	P	N/A	N/A	NO	N/A	–	Y		X				RD			
355	18	N/A	N/A (per City of Adelanto as-builts)	24" Gas Line	-	942+70	Phantom West and Air Expressway	2040	P	N/A	N/A	NO	3	HIGH	Y		X				RD			
356	18	N/A	City of Adelanto	18" Water Line	-	942+90	Phantom West and Air Expressway	2140	P	N/A	N/A	NO	N/A	–	Y		X				RD			
357	18	N/A	Calnev	6" Oil Line	-	943+10	Phantom West	640	P	N/A	N/A	NO	4	HIGH	Y		X				RD			
358	18	N/A	Calnev	4" Oil Line	-	943+40	Phantom West	650	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
359	18	N/A	SC Edison	Lighting Conduit	3 Light Poles	942+60	Phantom West and Air Expressway	980	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
360	18	N/A	SC Edison	Overhead Power Line	3	843+20	HWY 395	1300	P	N/A	N/A	YES	N/A	–	Y		X				RB			
361	18	N/A	City of Adelanto	18" Sewer Line	-	855+00	Pearmain Street	805	P	N/A	N/A	NO	8	–	Y		X				RD			
362	18	N/A	Booz/Allen/Hamilton	Monitoring Well	-	933+00	Air Expressway	-	P	N/A	N/A	NO	N/A	–	Y		X				RD			Within R/W; outside of project limits
513	18	N/A	Verizon	Overhead Line	-	2374+00	Bellflower Street	520	E	N/A	N/A	YES	N/A	–	Y		X				RB			
514	18	N/A	Verizon	Overhead Line	-	844+00	HWY 395	1330	P	N/A	N/A	YES	N/A	–	Y		X				RB			
515	18	N/A	Verizon	Overhead Line	-	2430+00	Adelanto Road	450	E	N/A	N/A	YES	N/A	–	Y		X				RB			
516	18	N/A	Verizon	Overhead Line	-	932+00	Air Expressway Blvd and Phantom West	2100	P	N/A	N/A	YES	N/A	–	Y		X				RB			
522	18	N/A	Sprint	Fiber Optic Cable Line	-	960+00	Adelanto Road	460	P, E	N/A	N/A	NO	N/A	–	Y		X				RD			
523	18	N/A	City of Adelanto	Sewer Line	-	2400+20	Jonathan Road	610	E	N/A	N/A	NO	N/A	–	Y		X				RD			
524	18	N/A	City of Adelanto	Sewer Line	-	2420+00	Between Highway 395 and Adelanto Road	1350	P, E	N/A	N/A	NO	N/A	–	Y		X				RD			
U-19																								
371	19	N/A	N/A (per City of Adelanto as-builts)	24" Gas Line	-	960+00	Air Expess Way and Weapons Movement Rd	350	P	N/A	N/A	NO	N/A	HIGH	N						NC			Within R/W; outside of project limits
372	19	N/A	City of Adelanto	18" Water line	-	960+00	Air Express Way	410	P	N/A	N/A	NO	N/A	–	N						NC			Within R/W; outside of project limits
373	19	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunicatron Line	-	960+00	Air Express Way	2220	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
374	19	N/A	City of Adelanto	12" Water Line	-	960+00	Air Express Way	2240	P	N/A	N/A	NO	N/A	–	Y		X				RD			
375	19	N/A	City of Adelanto	24" Water Line	-	960+00	Air Express Way	2270	P	N/A	N/A	NO	3.5" MIN	–	Y		X				RD			
376	19	N/A	Time Warner	4-1" telecommunications innerducs	-	960+00	Air Express Way	3130	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
377	19	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunication Line	-	960+00	Air Express Way	2270	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
378	19	N/A	City of Adelanto	10" Water Line	-	963+20	Air Express Way	410	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
379	19	N/A	SC Edison	Overhead Power Line	3	963+90	Air Express Way and Turner Rd	5130	P	N/A	N/A	YES	–	–	Y		X				RB			
380	19	N/A	SC Edison	Overhead Power Line	1	963+90	Air Express Way and Weapons Movement Rd	300	P	N/A	N/A	YES	–	–	Y		X				RB			
381	19	N/A	City of Adelanto	14" Water Line	-	964+30	Air Express Way	1690	P	N/A	N/A	NO	N/A	–	Y		X				RD			
382	19	N/A	City of Adelanto	Water Line	-	964+70	Air Express Way	1660	P	N/A	N/A	NO	N/A	–	Y		X				RD			
383	19	N/A	City of Adelanto	3" Water Line	-	964+70	Air Express Way	420	P	N/A	N/A	NO	2.5'	–	Y		X				RD			
384	19	N/A	N/A (per City of Adelanto as-builts)	2" Gas Line	-	971+00	Air Express Way	1080	P	N/A	N/A	NO	approx. 2.5'	LOW	Y		X				RD			
385	19	N/A	Victorville Water	16" Water Line	-	976+80	Air Express Way and Nevada Ave	150	P	N/A	N/A	NO	N/A	–	Y		X				RD			
386	19	N/A	City Of Victorville	18" Sewer Line	-	977+00	Air Express Way and Nevada Ave	300	P	N/A	N/A	NO	9'	–	Y		X				RD			
388	19	N/A	Victorville Water	12" Water Line	-	977+20	Air Express Way and Nevada Ave	150	P	N/A	N/A	NO	approx. 8'	–	Y		X				RD			
389	19	N/A	City Of Victorville	6" Sewer Line	-	978+70	Air Express Way and Nevada Ave	330	P	N/A	N/A	NO	N/A	–	Y		X				RD			
390	19	N/A	Southwest Gas	High Pressure Gas Pipe	-	990+40	Air Express Way, George Blvd, and Turner Rd	2640	P	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
391	19	N/A	SC Edison	Overhead Power Line	17	1015+00	West of Phantom East	2450	P	N/A	N/A	YES	–	–	Y		X				RB			
392	19	N/A	SC Edison	Overhead Power Line	8	1016+70	Phantom East	2240	P	N/A	N/A	YES	–	–	Y		X				RB			
393	19	N/A	City Of Victorville	18" Sewer Line	-	1028+70	Phantom East	820	P	N/A	N/A	NO	4'	–	Y			X			P			Pothole required for vert. clearance
394	19	N/A	City Of Victorville	27" Sewer Line	-	1052+00	East of Phantom East	360	P	N/A	N/A	NO	4' MIN	–	Y			X			P			Pothole required to confirm (vert).
395	19	N/A	City Of Victorville	18" Sewer Line	-	1083+10	Air ExpressWay and Gas Line Rd	310	P, E	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
396	19	N/A	Southwest Gas	High Pressure Gas Pipe	-	1083+10	Air Express Way and Gas Line Rd	310	P, E	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
397	19	N/A	N/A (per City of Victorville as-builts)	10" Gas Line	-	1083+20	Air Express Way and Gas Line Rd	310	P, E	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
398	19	N/A	SC Edison	Overhead Power Line	3	1095+90	Air Express Way	690	P, E	N/A	N/A	YES	–	–	Y		X				RB			
399	19	N/A	DWP	Overhead Power Line	1	1038+50	East of Phantom East	560	P	N/A	N/A	YES	–	HIGH	Y		X				RB			
400	19	N/A	City Of Victorville	8" Water Line	-	1096+60	Air Express Way	890	P, E	N/A	N/A	NO	N/A	–	Y		X				RD			
401	19	N/A	City Of Victorville	27" Sewer Line	-	2604+10	East of El Evado Rd	410	P	N/A	N/A	NO	4' MIN	–	Y				X		PC			Pothole required to confirm (vert).
402	19	N/A	DWP	Overhead Power Line	-	2632+70	East of El Evado Rd	640	E	N/A	N/A	YES	–	HIGH	Y		X				RB			Survey needed
403	19	N/A	DWP	Overhead Power Line	-	2625+80	East of El Evado Rd	690	E	N/A	N/A	YES	–	HIGH	Y		X				RB			Survey needed
404	19	N/A	Southern California Gas	30" Gas Line	-	2582+90	Rancho Rd	820	E	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance
405	19	N/A	City of Victorville	18" Sewer line	-	1016+70	Phantom East	1700	P, E	N/A	N/A	NO	4'	–	Y				X		PC			Pothole required for vert. clearance
406	19	N/A	Booz/Allen/Hamilton	Monitoring Well	-	966+40	Air Express Way	-	P	N/A	N/A	NO	N/A	–	Y		X				RD			
407	19	N/A	Booz/Allen/Hamilton	Monitoring Well	-	987+50	Air Express Way	-	P	N/A	N/A	NO	N/A	–	Y		X				RD			
408	19	N/A	Booz/Allen/Hamilton	Monitoring Well	-	1002+10	Air Express Way	-	P	N/A	N/A	NO	N/A	–	Y		X				RD			Within R/W; Outside of project limits
409	19	N/A	SC Edison	Power Line	3	1111+00	Phantom East	2240	P	N/A	N/A	YES	N/A	LOW	Y		X				RB			

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Notes:
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RB - OH Utilities

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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact*	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC Potential Conflict	Resp. Party U- Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other				
517	19	N/A	Verizon	Telecommunications Line	-	990+00 to 1030+00	Phantom East	7703	E	N/A	N/A	YES	N/A	LOW	Y		X				RB			
518	19	N/A	Verizon	Telecommunications Line	-	1030+00	Phantom East	2729	E	N/A	N/A	YES	N/A	LOW	Y		X				RB			
U-20																								
411	20	N/A	SC Edison	Overhead Power Line	6	1109+80	West of National Trails Hwy	790	P, E	N/A	N/A	YES	–	–	Y		X				RB			
412	20	N/A	City of Victorville	6" AC Water Line	-	1115+50	West of National Trails Hwy	670	P, E	N/A	N/A	NO	N/A	–	Y		X				RD			
413	20	N/A	City of Victorville	2-14" DIP Sewer Line	-	1108+30	West of National Trails Hwy	780	P, E	N/A	N/A	NO	N/A	–	Y		X				RD			
414	20	N/A	Southwest Gas	High Pressure Gas Pipe	-	1117+20	National Trails Hwy	670	E	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
415	20	N/A	City of Victorville	12" AC Water Line	-	1117+20	National Trails Hwy	630	E	N/A	N/A	NO	N/A	–	Y		X				RD			
416	20	N/A	DWP	Overhead Power Line	1 Tower	1138+25	Between National Trails Hwy and Mining RailRoad	980	P, E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
417	20	N/A	DWP	Overhead Power Line	1 Tower	1144+50	Between National Trails Hwy and Mining RailRoad	1150	P, E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
418	20	N/A	DWP	Overhead Power Line	1 Tower	1151+00	Between National Trails Hwy and Mining RailRoad	1110	P, E	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
419	20	N/A	SC Edison	Overhead Power Line	1	1170+00	Between National Trails Hwy and Mining RailRoad	330	P	N/A	N/A	YES	–	–	Y		X				RB			
420	20	N/A	Level 3 communications	Fiber Optic Line	-	1210+50	Mining RailRoad	410	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
421	20	N/A	SC Edison	Overhead Power Line	2	1210+75	Mining RailRoad	120	P	N/A	N/A	YES	–	–	Y		X				RB			
422	20	N/A	SC Edison	Overhead Power Line	2	1222+90	East of Mining RailRoad	310	P	N/A	N/A	YES	–	–	Y		X				RB			
423	20	N/A	Victor Valley wastewater Reclamation Authority	24" Sewer Line	-	1245+80	Stoddard Wells Rd	590	P	N/A	N/A	NO	7'	–	Y				X		PC			Pothole required to confirm (vert)
424	20	N/A	Southern California Gas	30" Gas Line	-	1215+00	East of Mining RailRoad	1120	P	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required to confirm (vert)
519	20	N/A	Verizon	Telecommunications Line	-	1109+80	East of National Trails Hwy	650	P, E	N/A	N/A	YES	N/A	–	Y		X				RB			
U-21																								
431	21	N/A	Southwest Gas	2" Gas Line	-	167+50	D Street	170	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
432	21	N/A	Southwest Gas	4" Gas Line	-	169+10	D Street	890	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
433	21	N/A	City of Victorville	10"/12" Sewer Line	-	206+10	Stoddard Wells Rd	980	P	N/A	N/A	NO	7'	-	Y				X		PC			Pothole required to confirm (vert)
434	21	N/A	Southwest Gas	4" Gas Line	-	210+50	Stoddard Wells Rd	880	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
435	21	N/A	SC Edison	Overhead Power Line	29	210+00	East side of I-15 and Falchion Rd	11500	P	N/A	N/A	YES	-	-	Y		X				RB			
500	21	N/A	SC Edison	Overhead Power Line	-	165+80	D Street	970	P	N/A	N/A	YES	-	-	Y		X				RB			
501	21	N/A	SC Edison	Underground Power Line	-	160+10	D Street	350	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
502	21	N/A	SC Edison	Overhead Power Line	3	169+50	D Street	820	P	N/A	N/A	YES	-	-	Y		X				RB			
503	21	N/A	SC Edison	Underground Power Line	-	166+00	D Street	20	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
504	21	N/A	SC Edison	Overhead Power Line	3	216+30	Stoddard Wells Rd	255	P	N/A	N/A	YES	-	-	Y		X				RB			
505	21	N/A	SC Edison	Overhead Power Line	3	223+00	Stoddard Wells Rd	390	P	N/A	N/A	YES	-	-	N						NC			
520	21	N/A	Verizon	Overhead Line	-	215+00 to 280+00	Stoddard Wells Rd	6394	P	N/A	N/A	YES	-	-	Y		X				RB			
U-22																								
435	22	N/A	Victor Valley wastewater Reclamation Authority	24" Sewer line	-	1240+00	Stoddard Wells Rd	420	P	N/A	N/A	NO	10'	-	N						NC			Pothole required to confirm (vert)
436	22	N/A	AT&T	Telecommunications Duct Bank	-	1266+25	East of I-15	3410	P	N/A	N/A	NO	3' min	LOW	N						NC			Pothole required to confirm (vert)
437	22	N/A	SC Edison	Overhead Power Line	14	"I-15" 290+00	I-15 and Falchion Rd	1200	P	N/A	N/A	YES	-	-	Y		X				RB			
521	22	N/A	Verizon	Overhead Line	-	290+00	I-15 and Falchion Rd	1200	P	N/A	N/A	YES	-	-	Y		X				RB			
U-23																								
441	23	N/A	Verizon	Fiber Optic Line	-	1470+00	Dale Evans Parkway	2110	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
442	23	N/A	SC Edison	Overhead Power Line	3	1477+00	Between Dale Evans Parkway and Comanche Rd	670	P	N/A	N/A	YES	-	-	Y		X				RB			
443	23	N/A	Apple Valley County Water District	12" Water line	-	1477+40	Between Dale Evans Parkway and Comanche Rd	650	P	N/A	N/A	NO	4' min	-	Y				X		PC			Pothole required for vert. clearance
444	23	N/A	Town Of Apple Valley	12" Sewer Line	-	1480+90	Between Dale Evans Parkway and Comanche Rd	540	P	N/A	N/A	NO	10'	-	N						NC			Pothole required to confirm (vert)
445	23	N/A	Apple Valley County Water District	14" Water Line	-	1481+00	Comanche Rd	530	P	N/A	N/A	NO	3' min	-	Y				X		PC			Pothole required to confirm (vert)
446	23	N/A	SC Edison	Overhead Power Line	6	1503+00	Between Comanche Rd and Ramona Rd	990	P	N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert)
447	23	N/A	SouthWest Gas	High Pressure Gas Line	-	1510+25	Ramona Rd	520	P	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required to confirm (vert)
448	23	N/A	SC Edison	Overhead Power Line	3	1528+80	Carmel Ln	510	P	N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert)
449	23	N/A	Charter Communications	Overhead Fiber Optic Line	-	1528+80	Carmel Ln	500	P	N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert)
U-24																								
452	24	N/A	SC Edison	Overhead Power Line	7	1544+25	Waalew Rd	980		N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert)
453	24	N/A	SouthWest Gas	High Pressure Gas Line	-	1546+10	Waalew Rd	1940		N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required to confirm (vert)
454	24	N/A	SC Edison	Overhead Power Line	3	1570+25	Between Waalew Rd and Cahuilla Rd	390		N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert)
455	24	N/A	SouthWest Gas	High Pressure Gas Line	-	1603+25	Central Rd	2330		N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required for vert. clearance
456	24	N/A	Sunesys	Fiber Optic Line (OH & UG)	-	1609+10	Cahuilla Rd	1310		N/A	N/A	BOTH	2.5'	LOW	Y		X				RB			135' UG
457	24	N/A	SC Edison	Overhead Power Line	5	1609+10	Cahuilla Rd	1310		N/A	N/A	YES	-	-	Y		X				RB			
458	24	N/A	SC Edison	Overhead Power Line	5	1666+60	Joshua Rd	1390		N/A	N/A	YES	-	-	Y		X				RB			

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Notes:
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Conflict #	Utility Sheet #	Pothole/Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact*	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC Potential Conflict	Resp. Party U- Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
459	24	N/A	SC Edison	Overhead Power Line	3	81+50	Joshua Rd	2700		N/A	N/A	YES	-	-	Y		X				RB			
460	24	N/A	SC Edison	Overhead Power Line	15	1662+50	Joshua Rd	980		N/A	N/A	YES	-	-	Y		X				RB			
462	24	N/A	SC Edison	Overhead Power Line	4	1604+00	Central Rd	850		N/A	N/A	YES	-	-	Y		X				RB			
U-25																								
471	25	N/A	SC Edison	Overhead Power Line	3	1698+50	Shirwaun Rd	880		N/A	N/A	YES	-	-	Y		X				RB			
472	25	N/A	SC Edison	Underground Power Line (12kV)	-	1702+80	Shirwaun Rd	140		N/A	N/A	NO	N/A	HIGH	N						NC			Within RW; Outside of project limits
473	25	N/A	SC Edison	Overhead Power Line	6	1730+50	Standing Rock Rd	2280		N/A	N/A	YES	-	-	Y		X				RB			
474	25	N/A	SC Edison	Overhead Power Line	1	1783+90	Between Standing Rock Ave and Yucca Loma Rd	300		N/A	N/A	YES	-	-	Y		X				RB			
475	25	N/A	SC Edison	Overhead Power Line	2	1809+30	Yucca Loma Rd	210		N/A	N/A	YES	-	-	Y		X				RB			
476	25	N/A	SC Edison	Overhead Power Line	1	1809+30	Yucca Loma Rd	190		N/A	N/A	YES	-	-	N						NC			
477	25	N/A	SC Edison	Overhead Power Line	18	1808+70	Yucca Loma Rd	2900		N/A	N/A	YES	-	-	Y		X				RB			
U-26																								
491	26	N/A	SC Edison	Overhead Power Line	1	1836+00	Ottawa Rd	310		N/A	N/A	YES	-	-	Y			X			P			Pothole required for vert. clearance
492	26	N/A	SC Edison	Overhead Power Line	4	1851+50	Between Ottawa Rd and Nisqually Rd	1070		N/A	N/A	YES	-	-	Y		X				RB			
493	26	N/A	South West Gas	High Pressure Gas Pipe	-	1864+25	Nisqually Rd	980		N/A	N/A	NO	N/A	HIGH	N						NC			
494	26	N/A	SC Edison	Overhead Power Line	6	1898+00	Between Nisqually Rd and Bear Valley Rd	80		N/A	N/A	YES	-	-	Y		X				RB			Conflict along frontage road.
495	26	N/A	SC Edison	Overhead Power Line	8	1938+30	Bear Valley Rd	1090		N/A	N/A	YES	-	-	Y		X				RB			

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High Desert Corridor - TO 4

Utility Conflict Matrix - Highway and Rail Option

Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
U-1R																							
10	1R	N/A		Telephone Line (Abandoned)	-	3068+40	Avenue S	420	P	N/A	N/A	NO	3	LOW	Y				X		PC			
11	1R	N/A	AT&T	2-Telephone Lines	-	3068+90	Avenue S	970	P	N/A	N/A	NO	8	LOW	N						NC			
12	1R	N/A	SC Gas	2-30" HP Gas Line	-	3069+50	Avenue S	920	P	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required to confirm.
13	1R	N/A	AT&T	Telephone Line	-	3120+50	Avenue R	320	P	N/A	N/A	NO	3	LOW	N						NC			
14	1R	N/A	AT&T	Telephone Line	-	3155+00	Palmdale Blvd	1500	P	N/A	N/A	NO	3.5	LOW	Y			X			P			
15	1R	N/A	AT&T	Telephone Line (Abandoned)	-	3155+00	Palmdale Blvd	955	P	N/A	N/A	NO	3	LOW	Y				X		A			
16	1R	N/A	Freedom Communications	Fiber Optic Line	-	3068+80	Avenue S	970	P	N/A	N/A	NO	N/A	LOW	Y			X			P			
17	1R	N/A	SC Edison	Overhead Power Line	3	3069+80	Avenue S	840	P	N/A	N/A	YES	N/A	-	Y			X			PC			
18	1R	N/A	Palmdale Water District	16" Water Line	-	3069+10	Avenue S	860	P	N/A	N/A	NO	5 ±	-	N						NC			
19	1R	N/A	Palmdale Water District	12" Water Line	-	3069+20	Avenue S	860	P	N/A	N/A	NO	N/A	-	N						NC			
20	1R	N/A	Palmdale Water District	12" Water Line	-	3119+90	Avenue R	340	P	N/A	N/A	NO	3.5 ±	-	N						NC			
21	1R	N/A	SC Edison	Underground Power Line	-	3069+65	Avenue S	385	P	N/A	N/A	NO	N/A	-	N						NC			
22	1R	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	-	3095+75	Between Avenue S and Palmdale Blvd	230	P	N/A	N/A	YES	N/A	HIGH	Y			X			P			PP located outside of project limits.
23	1R	N/A	SC Edison	Underground Power Line	-	3120+60	Avenue R	330	P	N/A	N/A	NO	N/A	-	N						NC			
24	1R	N/A	Palmdale Water District	8" Water Line w/ 24" Casing	-	3100+25	Between Avenue S and Avenue E	265	P	N/A	N/A	NO	20 ±	-	N						NC			
25	1R	N/A	AT&T	Telephone Line	-	3154+70	Palmdale Blvd	1500	P	N/A	N/A	NO	3	LOW	N						NC			
U-2R																							
31	2R	N/A	SC Gas	4" Gas Line	-	3239+00	Rancho Vista Blvd	1400	P	N/A	N/A	NO	N/A	LOW	N						NC			
32	2R	N/A	City of Palmdale	12" Sewer Line	-	3239+20	Rancho Vista Blvd	1400	P	N/A	N/A	NO	8 ±	-	N						NC			
33	2R	N/A	AT&T	Telephone Line	-	3239+70	Rancho Vista Blvd	1400	P	N/A	N/A	NO	N/A	LOW	N						NC			
34	2R	N/A	SC Gas	4" Gas Line	-	3255+80	10th and SR-14 (loop on-ramp)	1020	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			
35	2R	N/A	Time Warner Cable	Cable Line	-	3256+10	10th and SR-14 (loop on-ramp)	710	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
36	2R	N/A	AT&T	Buried Telephone Line	-	3259+00	10th Street	1380	P	N/A	N/A	NO	4.5	LOW	Y				X		PC			
37	2R	N/A	SC Gas	6" HP Gas Line	-	3259+70	10th Street	1380	P	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance Possible casing necessary
38	2R	N/A	AT&T	Buried Telephone Line (Abandoned)	-	3260+10	10th Street	1400	P	N/A	N/A	NO	3	LOW	Y	X					A			
39	2R	N/A	SC Gas	8" HP Gas Line	-	3277+80	Avenue O-8	350	P	N/A	N/A	NO	N/A	HIGH	N						NC			
40	2R	N/A	AT&T	Buried Telephone Line	-	3292+00	Avenue O-4	280	P	N/A	N/A	NO	3	LOW	N						NC			
41	2R	N/A	AT&T	Telephone Line	-	3305+30	Avenue O	320	P	N/A	N/A	NO	3	LOW	N						NC			
42	2R	N/A	Level 3 Communications	6-2" HDPE Conduits	-	3305+30	Avenue O	280	P	N/A	N/A	NO	N/A	LOW	N						NC			
43	2R	N/A	AT&T	Telephone Line	-	3305+40	Avenue O	50	P	N/A	N/A	NO	3	LOW	N						NC			
44	2R	N/A	AT&T	Telephone Line	-	3318+80	Avenue N-12	280	P	N/A	N/A	NO	3	LOW	N						NC			
45	2R	N/A	AT&T	Telephone Line	-	3331+90	Avenue N-8	550	P	N/A	N/A	NO	3	LOW	N						NC			
46	2R	N/A	Time Warner Cable	Cable Line	-	3332+20	Avenue N-8	320	P	N/A	N/A	NO	N/A	LOW	N						NC			
47	2R	N/A	AT&T	Telephone Line	-	3358+30	Avenue N	190	P	N/A	N/A	NO	4	LOW	N						NC			
48	2R	N/A	Time Warner Cable	Cable Line	-	3358+90	Avenue N	190	P	N/A	N/A	NO	N/A	LOW	N						NC			
49	2R	N/A	West Side Park Mutual Water Company	8" Water Line	-	3305+50	Avenue O	280	P	N/A	N/A	NO	N/A	-	Y			X			P			Pothole required for vert. clearance Possible casing necessary
50	2R	N/A	El Dorado Mutual Water Company	8" Water Line	-	3305+20	Avenue O	280	P	N/A	N/A	NO	N/A	-	Y			X			P			Pothole required for vert. clearance Possible casing necessary
51	2R	N/A	El Dorado Mutual Water Company	6" Water Line	-	3355+80	Avenue N	190	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required to confirm (horiz).
52	2R	N/A	Antelope Valley-East Kern Water Agency	30" Water Line	-	3355+80	Avenue N	190	P	N/A	N/A	NO	5 ±	-	Y				X		PC			Pothole required to confirm (horiz).
53	2R	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	7	3238+50	Rancho Vista Blvd	1095	P	N/A	N/A	YES	N/A	HIGH	Y				X		PC			Line running underneath SR-14
54	2R	N/A	SC Edison	Underground Power Line	-	3235+85 to 3242+00	Along SR-14	615	P	N/A	N/A	NO	N/A	-	N						NC			
55	2R	N/A	SC Edison	Underground Power Line	-	3242+45	Rancho Vista Blvd	30	P	N/A	N/A	NO	N/A	-	Y		X				RD			
56	2R	N/A	SC Edison	Underground Power Line	-	79+00 to 83+00	10th Street	400	P	N/A	N/A	NO	N/A	-	Y				X		PC			
57	2R	N/A	SC Edison	Underground Power Line	-	3260+20	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y		X				RD			
58	2R	N/A	SC Edison	66 kv and 4 kv Overhead Transmission Line On Same Pole	6	3260+00	10th Street	1375	P	N/A	N/A	YES	N/A	HIGH	Y		X				RB			
59	2R	N/A	SC Edison	Underground Power Line	-	3277+55	Avenue O-8	40	P	N/A	N/A	NO	N/A	-	N						NC			
60	2R	N/A	SC Edison	Overhead Power Line	0	3292+33	Avenue O-4	280	P	N/A	N/A	YES	N/A	-	Y				X		PC			PP located outside of RW
61	2R	N/A	SC Edison	4 kv Overhead Power Line	6	3359+25	Avenue N	1175	P	N/A	N/A	YES	N/A	HIGH	Y			X			P			
62	2R	N/A	LA County Waterworks District	12" Water Line	-	3238+70	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required to confirm (horiz).

P -Proposed Alternative
A -Variation A
B -Variation B
D -Variation D
E -Variation E
R -High Speed Rail (HSR)
R1-HSR Alt 1
R7-HSR Alt 7

Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
RB -For OH Utilities

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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
63	2R	N/A	LA County Waterworks District	12" Water Line	-	3239+40	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			
64	2R	N/A	LA County Waterworks District	12" Water Line Abandoned	-	3239+65	Rancho Vista Blvd	725	P	N/A	N/A	NO	N/A	-	N						NC			
65	2R	N/A	LA County Waterworks District	3 MG Reservior Tank	-	-	Between Rancho Vista and Ave O-8		P	N/A	N/A	NO	N/A	-	Y				X		PC			Approx. 20 ft away from proposed RW
66	2R	N/A	LA County Waterworks District	24" Water Line	-	3259+70	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
67	2R	N/A	LA County Waterworks District	12" Water Line	-	3259+80	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
68	2R	N/A	LA County Waterworks District	12" Water Line	-	3259+15	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
69	2R	N/A	LA County Waterworks District	12" Water Line	-	3258+95	10th Street	1375	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
70	2R	N/A	LA County Waterworks District	8" Water Line Abandoned	-	3258+85	10th Street	1075	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
71	2R	N/A	LA County Waterworks District	12" Water Line	-	3275+60	Avenue O-8	345	P	N/A	N/A	NO	N/A	-	N						NC			Line running underneath SR-14
72	2R	N/A	West Side Park Mutual Water Company	8" Water Line	-	3278+00	Avenue O-8	250	P	N/A	N/A	NO	N/A	-	N						NC			Line running underneath SR-15
73	2R	N/A	AT&T	Telephone Line (Abandoned)	-	356+00	Avenue N	290	P	N/A	N/A	NO	3	LOW	N						NC			
74	2R	N/A	SC Edison	Overhead Power Line	2	3332+35	Avenue N-8	320	P	N/A	N/A	YES	N/A	-	Y				X		PC			
U-3R																								
90	3R	N/A	SC GAS	2" Gas Line	-	3220+00	W Avenue P-4	310	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
91	3R	N/A	City of Palmdale	39" Sewer Line	-	3220+00	W Avenue P-4	280	P	N/A	N/A	NO	10 ±	-	N						NC			Pothole required to confirm (vert)
92	3R	N/A	City of Palmdale	33" Sewer Line	-	3203+00	Along west side of SR-14	1660	P	N/A	N/A	NO	5 ±	-	Y				X		PC			Pothole required for vert. clearance
93	3R	N/A	SC Edison	Lighting Conduits	10 Light Poles	N/A	Avenue P-8	1800	P	N/A	N/A	NO	N/A	-	Y			X			P			Underneath proposed ramps
94	3R	N/A	SC Edison	Lighting Conduits	11 Light Poles	N/A	Avenue P-8	1800	P	N/A	N/A	NO	N/A	-	Y			X			P			Underneath proposed ramps
95	3R	N/A	City of Palmdale	33" Sewer Line	-	3202+60	Avenue P-8	1560	P	N/A	N/A	NO	4 ±	-	N						NC			
96	3R	N/A	AT&T	Telephone Line	-	3175+50	Avenue Q	300	P	N/A	N/A	NO	3	LOW	N						NC			
97	3R	N/A	SC GAS	6" HP Gas Line	-	3175+80	Avenue Q	360	P	N/A	N/A	NO	N/A	HIGH	N						NC			
98	3R	N/A	City of Palmdale	10" / 12" Sewer Line	-	3175+80	Avenue Q	360	P	N/A	N/A	NO	7 ±	-	N						NC			
99	3R	N/A	Time Warner Cable	Cable Line	-	3176+10	Avenue Q	360	P	N/A	N/A	NO	N/A	LOW	N						NC			
100	3R	N/A	City of Palmdale	36" Sewer Line	-	276+20	15th Street	520	P	N/A	N/A	NO	N/A	-	Y		X				RD			
101	3R	N/A	Palmdale Water District	12" Water Line	-	196+00	Division St	275	P	N/A	N/A	NO	3.5 ±	-	N						NC			
102	3R	N/A	SC Edison	4 kv Overhead Power Line	4	196+20	Division St	270	P	N/A	N/A	YES	N/A	-	Y		X				RB			
103	3R	N/A	City of Palmdale	15" Sewer Line	-	195+80	Division St	280	P	N/A	N/A	NO	8 ±	-	N						NC			
104	3R	N/A	SC Edison	Overhead Power Line	2	208+80	3rd Street	310	P	N/A	N/A	YES	N/A	-	Y		X				RB			
105	3R	N/A	Palmdale Water District	12" Water Line	-	209+00	3rd Street	310	P	N/A	N/A	NO	N/A	-	N						NC			
106	3R	N/A	City of Palmdale	8" VCP Sewer	-	209+10	3rd Street	310	P	N/A	N/A	NO	9 ±	-	N						NC			
107	3R	N/A	SC GAS	4" Gas Line	-	209+10	3rd Street	310	P	N/A	N/A	NO	N/A	LOW	N						NC			
108	3R	N/A	SC Edison	Overhead Power Line	3	222+90	Sierra Highway	360	P	N/A	N/A	YES	N/A	-	Y		X				RB			
109	3R	N/A	City of Palmdale	42" Sewer Line	-	247+90	East of 10th to 15th Street	2030	P	N/A	N/A	NO	9 ±	-	Y		X				RD			
110	3R	N/A	AT&T	Telecommunications Cable Line	-	223+20	Sierra Highway	310	P	N/A	N/A	NO	4.00	-	N						NC			
111	3R	N/A	Level 3 Communications	Fiber Optic Line	-	225+50	Sierra Highway	300	P	N/A	N/A	NO	N/A	LOW	N						NC			
112	3R	N/A	Sprint	Fiber Optic Line	-	225+90	Sierra Highway	300	P	N/A	N/A	NO	4	LOW	N						NC			
113	3R	N/A	Time Warner Cable	Telecommunications Line	-	235+50	9th Street	245	P	N/A	N/A	NO	N/A	LOW	N						NC			
114	3R	N/A	AT&T	Telecommunications Cable Line	-	235+90	8th Street	245	P	N/A	N/A	NO	3.5	LOW	N						NC			
115	3R	N/A	SC GAS	2" Gas Line	-	236+20	8th Street	130	P	N/A	N/A	NO	N/A	LOW	N						NC			
116	3R	N/A	Level 3 Communications	Fiber Optic Line	-	236+20	8th Street	245	P	N/A	N/A	NO	N/A	LOW	N						NC			
117	3R	N/A	SC Edison	Overhead Power Line	1	236+40	8th Street	50	P	N/A	N/A	YES	N/A	-	Y		X				RB			
118	3R	N/A	SC Edison	Electroliers	2 Light Poles	248+90	10th Street	135	P	N/A	N/A	NO	N/A	-	Y		X				RD			
119	3R	N/A	AT&T	Telecommunications Cable Line	-	248+90	10th Street	270	P	N/A	N/A	NO	4	LOW	Y		X				RD			
120	3R	N/A	SC Edison	Overhead Power Line	3	249+10	10th Street	535	P	N/A	N/A	YES	N/A	-	Y		X				RB			
121	3R	N/A	SC GAS	10" HP Gas Line	-	249+20	10th Street	270	P	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
122	3R	N/A	Palmdale Water District	12" Water Line	-	249+20	10th Street	300	P	N/A	N/A	NO	N/A	-	Y		X				RD			
123	3R	N/A	Palmdale Water District	6" Water Line	-	249+20	10th Street	270	P	N/A	N/A	NO	N/A	-	Y		X				RD			
124	3R	N/A	SC GAS	4" Gas Line	-	249+30	10th Street	270	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
125	3R	N/A	SC Edison	4kv And Communication Overhead Power Line	7	249+70	Between 10th and 15th Street	1070	P	N/A	N/A	YES	N/A	-	Y		X				RB			
127	3R	N/A	City of Palmdale	18" Sewer	-	248+90	East of 10th to 15th Street	2000	P	N/A	N/A	NO	7 ±	-	Y		X				RD			
128	3R	N/A	City of Palmdale	18" Sewer	-	276+10	15th Street	300	P	N/A	N/A	NO	8 ±	-	Y		X				RD			
129	3R	N/A	Palmdale WaterDistrict	4" / 9" Water Line	-	263+00	Between 12th and 20th Street	4750	P	N/A	N/A	NO	N/A	-	Y		X				RD			
130	3R	N/A	SC GAS	4" Gas Line	-	275+80	15th Street	430	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance

P -Proposed Alternative
A -Variation A
B -Variation B
D -Variation D
E -Variation E
R -High Speed Rail (HSR)
R1-HSR Alt 1
R7-HSR Alt 7
Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
RB -For OH Utilities

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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
131	3R	N/A	Palmdale Water District	12" Water Line	-	276+10	15th Street	380	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
132	3R	N/A	AT&T	Telecommunications Cable Line	-	276+40	15th Street	535	P	N/A	N/A	YES	N/A	LOW	Y		X				RB			
133	3R	N/A	SC Edison	Overhead Power Line	4	276+40	15th Street	535	P	N/A	N/A	YES	N/A	-	Y		X				RB			
134	3R	N/A	AT&T	Telecommunications Cable Line	-	287+00	17th Street	650	P	N/A	N/A	NO	2.5	LOW	Y				X		PC			Pothole required to confirm (vert) May need to be relocated vertically
135	3R	N/A	SC GAS	2" Gas Line	-	289+80	17th Street	620	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
136	3R	N/A	Palmdale Water District	12" Water Line	-	290+00	17th Street	450	P	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
137	3R	N/A	SC GAS	4" Gas Line	-	302+60	20th Street	1025	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
138	3R	N/A	AT&T	Telecommunications Cable Line	-	302+80	20th Street	1090	P	N/A	N/A	NO	3.5	LOW	Y		X				RD			
139	3R	N/A	Palmdale Water District	12" Water Line	-	303+10	20th Street	1035	P	N/A	N/A	NO	N/A	-	Y		X				RD			
140	3R	N/A	SC Edison	4 kv Overhead Power Line	5	303+20	20th Street	2240	P	N/A	N/A	YES	N/A	-	Y		X				RB			
142	3R	N/A	SC GAS	4" Gas Line	-	303+10	20th Street	520	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
143	3R	N/A	SC GAS	4" Gas Line	-	302+60	Avenue P-8	765	P	N/A	N/A	NO	N/A	LOW	Y		X				RD			
144	3R	N/A	SC Edison	66 kv and 4 kv Transmission Overhead Power Line	2	3176+30	Avenue Q	360	P	N/A	N/A	YES	N/A	HIGH	Y				X		PC			
145	3R	N/A	SC Edison	Underground Communication	-	3176+00	Avenue Q	360	P	N/A	N/A	NO	N/A	-	N						NC			
146	3R	N/A	SC Edison	Underground Power Line	-	3189+00	Between Avenue Q and Avenue P-8	115	P	N/A	N/A	NO	N/A	-	N						NC			
147	3R	N/A	LA County Waterworks District	12" Water Line	-	177+15	Avenue Q	100	P	N/A	N/A	NO	N/A	-	N						NC			
148	3R	N/A	LA County Waterworks District	16" Water Line	-	3202+25	Avenue P-8/Division St	2260	P	N/A	N/A	NO	N/A	-	Y				X		PC			
149	3R	N/A	LA County Waterworks District	12" Water Line	-	221+40	Avenue P-4	265	P	N/A	N/A	NO	N/A	-	N						NC			Pothole required for vert. clearance
U-3R-ALT1																								
540	3R1	N/A	City of Palmdale	12" Sewer Line	-	113+70	Avenue Q	130	R1	N/A	N/A	NO	N/A	-	Y				X		PC			
541	3R1	N/A	Sprint	Fiber Optic Line	-	114+60	Avenue Q	50	R1	N/A	N/A	NO	N/A	-	Y				X		PC			
542	3R1	N/A	MCI	Telecommunications Line	-	110+00	Sierra Highway	3900	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
543	3R1	N/A	MCI	Telecommunications Line	-	110+00	Sierra Highway	3900	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
544	3R1	N/A	Sprint	Fiber Optic Line	-	110+00	Sierra Highway	3900	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
545	3R1	N/A	City of Palmdale	8" Water Line (Abandoned)	-	122+20	Sierra Highway	1420	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
546	3R1	N/A	SCE	Overhead Power Line	3	132+20	Sierra Highway	200	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
547	3R1	N/A	City of Palmdale	18" Sewer Line	-	140+40	Avenue P-8	155	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
548	3R1	N/A	City of Palmdale	42" Sewer Line	-	140+60	Avenue P-8	155	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
549	3R1	N/A	Time Warner	Telecommunications Line	-	155+50	North of Avenue P-4	480	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
550	3R1	N/A	Time Warner	Telecommunications Line	-	168+40	8th Street	520	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
551	3R1	N/A	Level 3 Communications	Fiber Optic Line	-	168+40	8th Street	520	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
552	3R1	N/A	Level 3 Communications	Telecommunications Line	-	187+00	Avenue P	1480	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
553	3R1	N/A	SCE	Overhead Power Line	3	187+00	Avenue P	1480	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
554	3R1	N/A	SCE	Overhead Power Line	2	196+50	Avenue P	220	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
555	3R1	N/A	Time Warner	Telecommunications Line	-	200+00	North of Avenue P-4	590	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
556	3R1	N/A	SCE	Overhead Power Line	2	210+50	15th Street	320	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
557	3R1	N/A	City of Palmdale	18" Sewer Line	-	210+50	15th Street	320	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
558	3R1	N/A	SCE	Overhead Power Line	2	210+50	15th Street	320	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
559	3R1	N/A	Palmdale Water	12" Water Line	-	101+60	Avenue P-8	700	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
560	3R1	N/A	SCG	4" Gas Line	-	10155+50	20th Street	925	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
561	3R1	N/A	AT&T	Telecommunications Line	-	10155+50	20th Street	200	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
562	3R1	N/A	Palmdale Water	12" Water Line	-	10155+50	20th Street	100	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
563	3R1	N/A	SCE	Overhead Power Line	4	10155+50	20th Street	920	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
564	3R1	N/A	City of Palmdale	18" Sewer Line	-	168+40	8th Street	160	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
565	3R1	N/A	Palmdale Water	12" Sewer Line	-	168+00	8th Street	125	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
566	3R1	N/A	SCE	Lighting Conduits	-	168+00	8th Street	125	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
567	3R1	N/A	City of Palmdale	15" Sewer Line	-	175+00	Avenue P	1290	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
568	3R1	N/A	Palmdale Water	14" Water Line	-	173+70	Avenue P	1560	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
569	3R1	N/A	Palmdale Water	8" Water Line	-	10119+90	East Avenue P-4	270	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
570	3R1	N/A	Palmdale Water	12" Water Line	-	10146+60	17th Street	300	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
U-3R-ALT7																								
580	3R7	N/A	City of Palmdale	12" Sewer Line	-	10005+60	Avenue Q	120	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
581	3R7	N/A	Sprint	Fiber Optic Line	-	10006+00	Avenue Q	35	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
582	3R7	N/A	MCI	Telecommunications Line	-	10000+00	Sierra Highway	3900	R7	N/A	N/A	NO	N/A	-	Y		X				RD			

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R1-HSR Alt 1
R7-HSR Alt 7

Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top (ft)	Risk Level High Low	Impact? Y/N	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead				Remove	Relocate	Protect in Place	Potential Conflict	Other				
583	3R7	N/A	MCI	Telecommunications Line	-	10000+00	Sierra Highway	3900	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
584	3R7	N/A	Sprint	Fiber Optic Line	-	10000+00	Sierra Highway	3900	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
585	3R7	N/A	City of Palmdale	8" Water Line (Abandoned)	-	10014+10	Sierra Highway	1420	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
586	3R7	N/A	SCE	Overhead Power Line	3	10024+40	Sierra Highway	200	R7	N/A	N/A	YES	N/A	-	Y		X				RB			
587	3R7	N/A	Time Warner	Telecommunications Line	-	10049+00	North of Avenue P-4	130	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
588	3R7	N/A	Time Warner	Telecommunications Line	-	194+30	8th Street	90	R7	N/A	N/A	NO	N/A	-	N						NC			
589	3R7	N/A	Level 3 Communications	Fiber Optic Line	-	10059+40	Avenue P	135	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
590	3R7	N/A	SCE	Overhead Power Line	-	10059+90	Avenue P	135	R7	N/A	N/A	YES	N/A	-	Y		X				RB			
591	3R7	N/A	Time Warner	Telecommunications Line	-	10059+90	Avenue P	135	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
592	3R7	N/A	Level 3 Communications	Fiber Optic Line	-	194+30	8th Street	90	R7	N/A	N/A	NO	N/A	-	N						NC			
593	3R7	N/A	City of Palmdale	15" Sewer Line	-	194+30	8th Street	90	R7	N/A	N/A	NO	N/A	-	N						NC			
594	3R7	N/A	SCE	Overhead Power Line	1	205+00	North of Avenue P-4	40	R7	N/A	N/A	YES	N/A	-	N						NC			
595	3R7	N/A	SCE	Overhead Power Line	1	204+00	North of Avenue P-4	75	R7	N/A	N/A	YES	N/A	-	N						NC			
596	3R7	N/A	SCE	Overhead Power Line	-	212+40	10th Street	60	R7	N/A	N/A	YES	N/A	-	Y		X				RB			
597	3R7	N/A	AT&T	Telecommunications Line	-	212+40	10th Street	60	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
598	3R7	N/A	City of Palmdale	24" Sewer Line	-	10143+40	Rancho Vista Blvd	40	R7	N/A	N/A	NO	N/A	-	N						NC			
599	3R7	N/A	Time Warner	Telecommunications Line	-	10164+20	North of Avenue P-4	65	R7	N/A	N/A	NO	N/A	-	N						NC			
600	3R7	N/A	SCE	Overhead Power Line	1	241+50	15th Street	30	R7	N/A	N/A	YES	N/A	-	Y				X		PC			
601	3R7	N/A	City of Palmdale	18" Sewer Line	-	241+50	15th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
602	3R7	N/A	SCE	Overhead Power Line	-	241+30	15th Street	30	R7	N/A	N/A	YES	N/A	-	Y				X		PC			
603	3R7	N/A	AT&T	Telecommunications Line	-	241+90	15th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
604	3R7	N/A	Palmdale Water District	12" Water Line	-	241+90	15th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
605	3R7	N/A	SCG	4" Gas Line	-	241+30	15th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
606	3R7	N/A	AT&T	Telecommunications Line	-	255+40	17th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
607	3R7	N/A	Palmdale Water District	12" Water Line	-	255+40	17th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
608	3R7	N/A	SCG	4" Gas Line	-	255+00	17th Street	30	R7	N/A	N/A	NO	N/A	-	N						NC			
609	3R7	N/A	SCE	Overhead Power Line	-	268+70	20th Street	30	R7	N/A	N/A	YES	N/A	-	Y		X				RB			
610	3R7	N/A	SCG	4" Gas Line	-	268+20	20th Street	30	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
611	3R7	N/A	AT&T	Telecommunications Line	-	268+30	20th Street	30	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
612	3R7	N/A	Palmdale Water District	12" Water Line	-	268+70	20th Street	30	R7	N/A	N/A	NO	N/A	-	Y				X		PC			
613	3R7	N/A	SCE	Overhead Power Line	-	211+80	10th Street	60	R7	N/A	N/A	YES	N/A	-	Y		X				RB			
614	3R7	N/A	Palmdale Water District	12" Water Line	-	10059+40	Avenue P	135	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
615	3R7	N/A	Palmdale Water District	12" Water Line	-	193+50	Avenue P	75	R7	N/A	N/A	NO	N/A	-	N						NC			
616	3R7	N/A	City of Palmdale	15" Sewer Line	-	192+90	Avenue P	75	R7	N/A	N/A	NO	N/A	-	N						NC			
617	3R7	N/A	SCE	Overhead Power Line	-	192+50	Avenue P	75	R7	N/A	N/A	NO	N/A	-	Y		X				RD			
618	3R7	N/A	Time Warner	Telecommunications Line	-	192+50	Avenue P	75	R7	N/A	N/A	NO	N/A	-	N						NC			Confirm facility is UG.
619	3R7	N/A	Palmdale Water District	6" Water Line	-	216+00	East Avenue P-4	76	R7	N/A	N/A	NO	N/A	-	N						NC			
620	3R7	N/A	Palmdale Water District	16" Water Line	-	10165+00	20th Street	35	R7	N/A	N/A	NO	N/A	-	N						NC			
U-4R-ALT1																								
630	4R1	N/A	SCE	Overhead Power Line	2	10085+00	8th Street	310	R1	N/A	N/A	YES	N/A	-	Y		X				RB			
631	4R1	N/A	Palmdale Water District	20" Water Line	-	10062+50	Avenue O-8	195	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
632	4R1	N/A	City of Palmdale	12" Sewer Line	-	10062+20	Avenue O-8	195	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
633	4R1	N/A	MCI	Telecommunications Line	-	10053+40	Sierra Highway	5340	R1	N/A	N/A	NO	N/A	-	Y		X				RD			
U-4R-ALT7																								
640	4R7	N/A	Palmdale Water District	12" Water Line	-	10100+30	10th Street	75	R7	N/A	N/A	NO	N/A	-	N					NC				
641	4R7	N/A	SCE	Overhead Power Line	-	10100+50	10th Street	70	R7	N/A	N/A	YES	N/A	-	Y					RB				
642	4R7	N/A	AT&T	Telecommunications Line	-	10100+50	10th Street	70	R7	N/A	N/A	NO	N/A	-	N					NC				
643	4R7	N/A	SCE	Overhead Power Line	-	10085+80	8th Street	130	R7	N/A	N/A	YES	N/A	-	Y					RB				
644	4R7	N/A	Palmdale Water District	20" Water Line	-	177+70	Avenue O-8	75	R7	N/A	N/A	NO	N/A	-	Y					RD				
645	4R7	N/A	City of Palmdale	12" Sewer Line	-	178+00	Avenue O-8	75	R7	N/A	N/A	NO	N/A	-	Y					RD				
646	4R7	N/A	MCI	Telecommunications Line	-	164+00	Sierra Highway	5600	R7	N/A	N/A	NO	N/A	-	Y					RD				
U-5R																								
151	5R	N/A	AT&T	Telecommunications Cable Line	-	329+70	25th Street	530	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
152	5R	N/A	Palmdale Water District	12" Water Line	-	330+00	25th Street	530	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			

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										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
153	5R	N/A	Palmdale Water District	16" Water Line	-	330+30	25th Street	530	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
154	5R	N/A	AT&T	Telecommunications Cable Line	-	356+60	30th Street	1550	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
155	5R	N/A	City of Palmdale	15" / 18" Sewer Line (partially abandoned)	-	357+00	30th Street	1500	P, R	N/A	N/A	NO	8 ±	-	Y		X				RD			
156	5R	N/A	Palmdale Water District	20" Water Line	-	357+30	30th Street	2440	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
157	5R	N/A	SC Edison	Underground Power Line	-	357+60	30th Street	1550	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
158	5R	N/A	Palmdale Water District	12" Water Line	-	370+70	Between 30th and 35th Street	630	P, R	N/A	N/A	NO	N/A	-	Y				X		PC			Pothole required for vert. clearance
159	5R	N/A	City of Palmdale	15" Sewer Line	-	384+00	35th Street	530	P, R	N/A	N/A	NO	8 ±	-	N						NC			Pothole required to confirm (vert).
160	5R	N/A	City of Palmdale	27" Sewer Line	-	384+20	35th Street	530	P, R	N/A	N/A	NO	10 ±	-	N						NC			Pothole required to confirm (vert).
161	5R	N/A	SC Gas	3" Gas Line	-	397+60	37th Street	530	P, R	N/A	N/A	NO	N/A	LOW	N						NC			Pothole required for vert. clearance
162	5R	N/A	SC Edison	Comm. & 66 kv Overhead Power Line	4	411+10	40th Street	530	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
163	5R	N/A	City of Palmdale	12" Sewer Line	-	437+40	45th Street	530	P, R	N/A	N/A	NO	8 ±	-	N						NC			Pothole required to confirm (vert).
164	5R	N/A	SC Edison	4 kv Overhead Power Line	5	410+50	40th Street	530	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
525	5R	N/A	Palmdale Water District	12" Water Line	-	10195+00	25th Street	35	R7	N/A	N/A	NO	N/A	-	N						NC			HSR Alt 7 is elevated in this area.
526	5R	N/A	Palmdale Water District	16" Water Line	-	10195+00	25th Street	35	R7	N/A	N/A	NO	N/A	-	N						NC			HSR Alt 7 is elevated in this area.
527	5R	N/A	SC Edison	Overhead Power Line	0	10195+00	25th Street	35	R7	N/A	N/A	YES	N/A	-	Y				X		PC			
U-6R																								
171	6R	N/A	City of Palmdale	15" Sewer Line	-	493+90	56th Street	500	P, R	N/A	N/A	NO	10 ±	-	Y				X		PC			Pothole required to confirm (vert).
U-7R																								
181	7R	N/A	SC Edison	Communication Overhead Power Line	7	679+10	90th Street	1500	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
182	7R	N/A	SC Edison	4 kv Overhead Power Line	6	679+70	90th Street	1500	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
183	7R	N/A	LA County Waterworks District	Water Main	-	679+30	90th Street	1500	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
U-8R																								
191	8R	N/A	City as-builts	Tel Line	-	789+30	110th Street	555	P, R	N/A	N/A	NO	N/A	-	Y		X				RD			
192	8R	N/A	Antelope Valley E Kern County	24" Water Line	-	789+70	110th Street	555	P, R	N/A	N/A	NO	3 ±	-	Y		X				RD			
193	8R	N/A	SC Gas	12" HP Gas Line	-	789+90	110th Street	555	P, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
194	8R	N/A	SC Edison	66 kv Overhead Power Line	3	790+10	110th Street	555	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
195	8R	N/A	City as-builts	Tel Line	-	806+00	E Avenue Q	1080	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
196	8R	N/A	SC Edison	Overhead Power Line	4	806+00	E Avenue Q	1080	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
197	8R	N/A	Level 3 Communications	Fiber Optic Line	-	867+00	E Palmdale Ave	1480	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
198	8R	N/A	SC Edison	66 kv Overhead Power Line	5	867+00	E Palmdale Ave	1480	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
199	8R	N/A	Time Warner	Telecommunications Line	-	868+00	E Palmdale Ave	1480	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
201	8R	N/A	SC Edison	12 kv Overhead Power Line	2	789+20	110th Street	555	P, R	N/A	N/A	YES	N/A	-	Y		X				RB			
U-10R																								
226	10R	N/A	SC Edison	Overhead Power Line	2	1100+00	165th Street	500	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
227	10R	N/A	SC Edison	Overhead Power Line	6	1125+40	170th Street	1500	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
228	10R	N/A	SC Edison	Overhead Power Line	6	1131+50	171st Street	1680	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
U-11R																								
241	11R	N/A	SC Edison	Overhead Power Line	1	1215+00	187th Street	500	P, D,R	N/A	N/A	YES	N/A	–	Y		X				RB			PP within R/W; outside of work
243	11R	N/A	SC Edison	Overhead Power Line	2	1284+60	200th Street	500	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			PPs within R/W; outside of work
244	11R	N/A	SC Edison	Overhead Power Line	8	1306+70	E Avenue O-12	1820	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			2 PPs need relocation
245	11R	N/A	SC Edison	Overhead Power Line	3	1311+30	East of 205th St	380	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			1 PP needs relocation
246	11R	N/A	SC Edison	Overhead Power Line	0	1315+10	205th Street	130	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
U-12R																								
251	12R	N/A	SC Edison	Overhead Power Line	8	1336+60	West of Largo Vista Rd (210th St)	1870	D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
252	12R	N/A	SC Edison	Overhead Power Line	4	1337+80	Largo Vista Rd (210th St)	1040	D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
253	12R	N/A	SC Edison	Overhead Power Line	2	1350+50	215th Street	240	D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
254	12R	N/A	SC Edison	Overhead Power Line	3	1362+50	Between 215th and 217th Street	500	D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
255	12R	N/A	SC Edison	Overhead Power Line	7	1400+00	Between 217th and 230th Street	2770	D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
256	12R	N/A	SC Edison	Overhead Power Line	1	1397+80	220th Street	215	P, D, R	N/A	N/A	YES	N/A	–	Y		X				RB			

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										Pothole	Manhole	Overhead				Remove	Relocate	Protect in Place	Potential Conflict	Other			
257	12R	N/A	SC Edison	Overhead Power Line	1	1440+90	230th Street	500	P, D, R	N/A	N/A	YES	N/A	–	Y		X				RB			
U-13R																								
261	13R	N/A	SC Edison	Overhead Power Line	17	1495+00	240th Street	1890	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
U-14R																								
511	14R	N/A	Verizon	Telecommunications Line	-	1761+50	Silver Lake Road	500	P, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
U-15R																								
271	15R	N/A	SC GAS	30" HP Gas Line	-	1892+50	Rancho Rd	1430	B, R	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required to confirm (vert).
272	15R	N/A	SC GAS	3" Gas Line	-	1892+50	Sheep Creek Rd	1465	B, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
512	15R	N/A	Verizon	Telecommunications Line	5	1868+40	Sheep Creek Rd	1490	B, R	N/A	N/A	YES	N/A	LOW	Y		X				RB			
U-17R																								
301	17R	N/A	Mojave Water Agency	48" Water Line	-	2192+30	Richardson Road	500	P, R	N/A	N/A	NO	3	–	Y				X		PC			Pothole required to confirm (vert).
U-18R																								
311	18R	N/A	SC Gas	30" HP Gas Line	-	2245+00	Koala Road	630	P, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
312	18R	N/A	City of Adelanto	8" PVC Water Line	-	2268+50	Muskrat Ave	215	P, R	N/A	N/A	NO	4	–	Y				X		PC			Pothole required to confirm (vert).
313	18R	N/A	DWP	Overhead Power Line	1 Tower	2268+50	Between Muskrat and Racoon Ave	1080	P, R	N/A	N/A	YES	N/A	HIGH	Y		X				RB			1 Tower located within project
314	18R	N/A	City of Adelanto	18" Water Line	-	2288+50	Racoon Ave	525	P, R	N/A	N/A	NO	4	–	Y				X		PC			Pothole required for vert. clearance
315	18R	N/A	Southwest Gas	Distribution Gas Line	-	2288+80	Racoon Ave	510	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
316	18R	N/A	City of Adelanto	12" PVC Sewer	-	2288+70	Racoon Ave	515	P, R	N/A	N/A	NO	10	–	N						NC			Pothole required to confirm (vert).
317	18R	N/A	SC Edison	Overhead Power Line	2	2289+00	Racoon Ave	400	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
318	18R	N/A	Continental Tele Co.	Telecommunications Line	-	2298+50	Aster Road	500	P, E, R	N/A	N/A	NO	N/A	LOW	N						NC			Pothole required to confirm (vert).
319	18R	N/A	City of Adelanto	12" PVC Sewer	-	2299+00	Aster Road	500	P, E, R	N/A	N/A	NO	9	–	N						NC			Pothole required to confirm (vert).
U-19R																								
331	19R	N/A	Southwest Gas	Distribution Gas Line	-	2350+20	Bellflower Street	500	P, E, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
332	19R	N/A	SC Edison	Overhead Power Line	8	2380+20	HWY 395	1370	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			
333	19R	N/A	SC Edison	Overhead Power Line	3	2405+50	Adelanto Road	550	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			
334	19R	N/A	N/A (per City of Adelanto as-builts)	2" Gas Line	-	2405+50	Adelanto Road	550	P, E, R	N/A	N/A	NO	3'-1"	LOW	Y		X				RD			
335	19R	N/A	Time Warner Telecom	Telecommunications Duct Bank	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
336	19R	N/A	City of Adelanto	8" Water Line	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	1'	–	Y		X				RD			
337	19R	N/A	Level 3 Communications	Fiber Optic Cable Line	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			
338	19R	N/A	Kinder Morgan	14" High Pressure Petrolium Pipe	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	5.3	HIGH	Y		X				RD			
339	19R	N/A	Kinder Morgan	8" High Pressure Petrolium Pipe	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	5.9	HIGH	Y		X				RD			
340	19R	N/A	Southwest Gas	2" Distribution Gas Line	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	3.0	LOW	Y		X				RD			
341	19R	N/A	Southwest Gas	14" High Pressure Gas Line	-	2405+50	Adelanto Road	560	P, E, R	N/A	N/A	NO	4.0	HIGH	Y		X				RD			
342	19R	N/A	DWP	Overhead Power Line	1 Tower	2442+50	Between Adelanto Rd and Phantom West	1370	E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
343	19R	N/A	DWP	Overhead Power Line	1 Tower	2446+00	Between Adelanto Rd and Phantom West	1370	E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
344	19R	N/A	DWP	Overhead Power Line	1 Tower	2451+50	Between Adelanto Rd and Phantom West	1390	E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
345	19R	N/A	Southern California Gas	30" Gas Line	-	2475+50	Between Adelanto Rd and Phantom West	4950	E, R	N/A	N/A	NO	N/A	HIGH	Y			X			P			Pothole required for vert. clearance
346	19R	N/A	Southern California Gas	Gas Line	-	2499+00	Phantom West	1440	E, R	N/A	N/A	NO	N/A	N/A	Y				X		PC			Pothole required for vert. clearance
347	19R	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunications Line	-	2463+50	Air Expressway	5000	P, R	N/A	N/A	YES	–	–	Y		X				RB			
348	19R	N/A	Time Warner	4-1" Telecommunications Innerducts	-	2465+50	Air Expressway	5000	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
349	19R	N/A	City of Adelanto	24" Water Line	-	2465+75	Air Expressway	5000	P, R	N/A	N/A	NO	3.5' MIN	–	Y				X		PC			Pothole required for vert. clearance
350	19R	N/A	Kinder Morgan	6-4" High Pressure Petrolium Pipe	-	2467+50	Air Expressway	4350	P, R	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
351	19R	N/A	City of Adelanto	12" Water Line	-	2477+30	Air Expressway	3620	P, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
352	19R	N/A	Kinder Morgan	6" High Pressure Petrolium Pipe	-	2477+00	Air Expressway	2990	P, R	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
353	19R	N/A	N/A (per City of Adelanto as-builts)	Telecommunications Duct Bank	-	2484+00	Air Expressway	3440	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
354	19R	N/A	City of Adelanto	18" Water Line	-	2478+00	Air Expressway	2710	P, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
355	19R	N/A	N/A (per City of Adelanto as-builts)	24" Gas Line	-	2478+80	Phantom West and Air Expressway	2025	P, R	N/A	N/A	NO	3	HIGH	Y				X		PC			Pothole required for vert. clearance
356	19R	N/A	City of Adelanto	18" Water Line	-	2479+00	Phantom West and Air Expressway	2140	P, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
357	19R	N/A	Calnev	6" Oil Line	-	2479+30	Phantom West	640	P, R	N/A	N/A	NO	4	HIGH	Y				X		PC			Pothole required for vert. clearance
358	19R	N/A	Calnev	4" Oil Line	-	2479+80	Phantom West	650	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance

P -Proposed Alternative
A -Variation A
B -Variation B
D -Variation D
E -Variation E
R -High Speed Rail (HSR)
R1-HSR Alt 1
R7-HSR Alt 7

Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
RB -For OH Utilities

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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C- Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
359	19R	N/A	SC Edison	Lighting Conduit	3 Light Poles	2478+50	Phantom West and Air Expressway	1105	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
360	19R	N/A	SC Edison	Overhead Power Line	3	2380+00	HWY 395	1370	P, E, R	N/A	N/A	YES	N/A	–	Y		X				RB			
361	19R	N/A	City of Adelanto	18" Sewer Line	-	2392+00	Pearmain Street	1475	P, E, R	N/A	N/A	NO	8	–	Y				X		PC			Pothole required for vert. clearance
362	19R	N/A	Booz/Allen/Hamilton	Montoring Well	-	2468+50	Air Expressway	-	P	N/A	N/A	NO	N/A	–	Y		X				RD			
513	19R	N/A	Verizon	Overhead Line	-	2362+50	Bellflower Street	500	P, E, R	N/A	N/A	YES	N/A	–	Y		X				RB			
514	19R	N/A	Verizon	Overhead Line	-	2381+00	HWY 395	1370	P, E, R	N/A	N/A	YES	N/A	–	Y		X				RB			
515	19R	N/A	Verizon	Overhead Line	-	2404+50	Adelanto Road	565	P, E, R	N/A	N/A	YES	N/A	–	Y		X				RB			
516	19R	N/A	Verizon	Overhead Line	-	2459+00	Air Expressway Blvd and Phantom West	5300	P, R	N/A	N/A	YES	N/A	–	Y		X				RB			
522	19R	N/A	Sprint	Fiber Optic Cable Line	-	2405+00	Adelanto Road	555	P, E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
523	19R	N/A	City of Adelanto	Sewer Line	-	2398+00	Jonathan Road	715	E, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
524	19R	N/A	City of Adelanto	Sewer Line	-	2392+00	Between Highway 395 and Adelanto Road	1475	P, E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
U-20R																								
371	20R	N/A	N/A (per City of Adelanto as-builts)	24" Gas Line	-	2496+00	Air Expess Way and Weapons Movement Rd	350	P, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
372	20R	N/A	City of Adelanto	18" Water line	-	2496+00	Air Express Way	400	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
373	20R	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunication Line	-	2496+00	Air Express Way	2220	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
374	20R	N/A	City of Adelanto	12" Water Line	-	2496+00	Air Express Way	2240	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
375	20R	N/A	City of Adelanto	24" Water Line	-	2496+00	Air Express Way	2270	P, R	N/A	N/A	NO	3.5' MIN	–	Y		X				RD			
376	20R	N/A	Time Warner	4-1" telecommunications innerducs	-	2496+00	Air Express Way	3130	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
377	20R	N/A	N/A (per City of Adelanto as-builts)	Overhead Telecommunication Line	-	2496+00	Air Express Way	2270	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
378	20R	N/A	City of Adelanto	10" Water Line	-	2499+50	Air Express Way	390	P, R	N/A	N/A	NO	N/A	LOW	Y		X				RD			
379	20R	N/A	SC Edison	Overhead Power Line	3	2499+90	Air Expess Way and Turner Rd	5130	P, R	N/A	N/A	YES	–	–	Y		X				RB			
380	20R	N/A	SC Edison	Overhead Power Line	1	2500+00	Air Expess Way and Weapons Movement Rd	300	P, R	N/A	N/A	YES	–	–	Y		X				RB			
381	20R	N/A	City of Adelanto	14" Water Line	-	2501+50	Air Express Way	1690	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
382	20R	N/A	City of Adelanto	Water Line	-	2502+00	Air Express Way	1660	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
383	20R	N/A	City of Adelanto	3" Water Line	-	2502+30	Air Express Way	420	P, R	N/A	N/A	NO	2.5'	–	Y		X				RD			
384	20R	N/A	N/A (per City of Adelanto as-builts)	2" Gas Line	-	2507+00	Air Express Way	1080	P, R	N/A	N/A	NO	approx.2.5'	LOW	Y		X				RD			
385	20R	N/A	Victorville Water	16" Water Line	-	2512+80	Air Express Way and Nevada Ave	140	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
386	20R	N/A	City Of Victorville	18" Sewer Line	-	2513+00	Air Express Way and Nevada Ave	300	P, R	N/A	N/A	NO	9'	–	Y		X				RD			
388	20R	N/A	Victorville Water	12" Water Line	-	2513+20	Air Express Way and Nevada Ave	150	P, R	N/A	N/A	NO	approx.8'	–	Y		X				RD			
389	20R	N/A	City Of Victorville	6" Sewer Line	-	2514+80	Air Express Way and Nevada Ave	330	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
390	20R	N/A	Southwest Gas	High Pressure Gas Pipe	-	2543+80	Air Express Way, George Blvd, and Turner Rd	4015	P, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
391	20R	N/A	SC Edison	Overhead Power Line	17	2569+80	West of Phantom East	4175	P, R	N/A	N/A	YES	–	–	Y		X				RB			
392	20R	N/A	SC Edison	Overhead Power Line	8	2564+20	Phantom East	2240	P, R	N/A	N/A	YES	–	–	Y		X				RB			
393	20R	N/A	City Of Victorville	18" Sewer Line	-	2564+00	Phantom East	1500	P, R	N/A	N/A	NO	4'	–	Y			X			P			Pothole required for vert. clearance
394	20R	N/A	City Of Victorville	27" Sewer Line	-	2598+10	East of Phantom East	415	P, R	N/A	N/A	NO	4' MIN	–	Y				X		PC			Pothole required to confirm (vert).
395	20R	N/A	City Of Victorville	18" Sewer Line	-	2619+00	Air ExpressWay and Gas Line Rd	305	P, E, R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
396	20R	N/A	Southwest Gas	High Pressure Gas Pipe	-	2618+75	Air Express Way and Gas Line Rd	2080	P, E, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
397	20R	N/A	N/A (per City of Victorville as-builts)	10" Gas Line	-	2619+10	Air Express Way and Gas Line Rd	310	P, E, R	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
398	20R	N/A	SC Edison	Overhead Power Line	3	2663+40	Air Express Way	630	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			
399	20R	N/A	DWP	Overhead Power Line	1	2574+50	East of Phantom East	740	P, R	N/A	N/A	YES	–	HIGH	Y		X				RB			
400	20R	N/A	City Of Victorville	8" Water Line	-	2664+00	Air Express Way	470	E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
401	20R	N/A	City Of Victorville	27" Sewer Line	-	2595+60	East of El Evado Rd	1900	E, R	N/A	N/A	NO	4' MIN	–	Y		X				RD			
402	20R	N/A	DWP	Overhead Power Line	-	2618+00	East of El Evado Rd	680	E, R	N/A	N/A	YES	–	HIGH	Y		X				RB			Survey needed
403	20R	N/A	DWP	Overhead Power Line	-	2621+00	East of El Evado Rd	685	E, R	N/A	N/A	YES	–	HIGH	Y		X				RB			Survey needed
404	20R	N/A	Southern California Gas	30" Gas Line	-	2578+40	Rancho Rd	2400	E, R	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required for vert. clearance
405	20R	N/A	City of Victorville	18" Water Line	-	2563+40	Phantom East	1500	P, E, R	N/A	N/A	NO	4'	–	Y				X		PC			Pothole required for vert. clearance
406	20R	N/A	Booz/Allen/Hamilton	Monitoring Well	-	2502+30	Air Express Way	-	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
407	20R	N/A	Booz/Allen/Hamilton	Monitoring Well	-	2523+50	Air Express Way	-	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			
408	20R	N/A	Booz/Allen/Hamilton	Monitoring Well	-	2538+00	Air Express Way	-	P, R	N/A	N/A	NO	N/A	–	Y		X				RD			Within R/W; Outside of project limits
409	20R	N/A	SC Edison	Power Line	3	2564+20	Phantom East	1600	P, R	N/A	N/A	YES	N/A	LOW	Y		X				RB			
517	20R	N/A	Verizon	Telecommunications Line	-	2569+00	Phantom East	4240	P, R	N/A	N/A	YES	N/A	LOW	Y		X				RB			
518	20R	N/A	Verizon	Telecommunications Line	-	2563+25	Phantom East	800	P, R	N/A	N/A	YES	N/A	LOW	Y		X				RB			
U-21R																								
411	21R	N/A	SC Edison	Overhead Power Line	8	2645+60	West of National Trails Hwy	990	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			

P -Proposed Alternative
A -Variation A
B -Variation B
D -Variation D
E -Variation E
R -High Speed Rail (HSR)
R1-HSR Alt 1
R7-HSR Alt 7

Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
RB -For OH Utilities

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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top (ft)	Risk Level High Low	Impact* Y/N	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead				Remove	Relocate	Protect in Place	Potential Conflict	Other			
412	21R	N/A	City of Victorville	6" AC Water Line	-	2679+30	West of National Trails Hwy	830	E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
413	21R	N/A	City of Victorville	2-14" DIP Sewer Line	-	2643+20	West of National Trails Hwy	1020	P, E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
414	21R	N/A	Southwest Gas	High Pressure Gas Pipe	-	2681+00	National Trails Hwy	850	E, R	N/A	N/A	NO	N/A	HIGH	Y		X				RD			
415	21R	N/A	City of Victorville	12" AC Water Line	-	2681+00	National Trails Hwy	840	E, R	N/A	N/A	NO	N/A	–	Y		X				RD			
416	21R	N/A	DWP	Overhead Power Line	1 Tower	2676+00	Between National Trails Hwy and Mining RailRoad	1035	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
417	21R	N/A	DWP	Overhead Power Line	1 Tower	2692+00	Between National Trails Hwy and Mining RailRoad	1145	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
418	21R	N/A	DWP	Overhead Power Line	1 Tower	2699+00	Between National Trails Hwy and Mining RailRoad	1105	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			1 Tower located within R/W
419	21R	N/A	SC Edison	Overhead Power Line	1	2700+00	Between National Trails Hwy and Mining RailRoad	320	P, E, R	N/A	N/A	YES	–	–	Y		X				RB			
420	21R	N/A	Level 3 communications	Fiber Optic Line	-	2739+50	Mining RailRoad	2940	P, R	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required to confirm (vert).
421	21R	N/A	SC Edison	Overhead Power Line	4	2739+50	Mining RailRoad	710	P, R	N/A	N/A	YES	–	–	Y				X		PC			
422	21R	N/A	SC Edison	Overhead Power Line	2	2752+00	East of Mining RailRoad	440	P	N/A	N/A	YES	–	–	Y				X		PC			
423	21R	N/A	Victor Valley wastewater Reclamation Authority	24" Sewer Line	-	2775+00	Stoddard Wells Rd	590	P	N/A	N/A	NO	7'	–	N						NC			Pothole required to confirm (vert).
424	21R	N/A	Southern California Gas	30" Gas Line	-	2745+00	East of Mining RailRoad	1105	P	N/A	N/A	NO	N/A	HIGH	Y				X		PC			Pothole required to confirm (vert).
519	21R	N/A	Verizon	Telecommunications Line	-	2645+60	East of National Trails Hwy	985	P, E, R	N/A	N/A	YES	N/A	–	Y		X				RB			
U-22R																								
435	22R	N/A	Victor Valley wastewater Reclamation Authority	24" Sewer line	-	1240+00	Stoddard Wells Rd	420	P	N/A	N/A	NO	10'	–	N						NC			Pothole required to confirm (vert).
436	22R	N/A	AT&T	Telecommunications Duct Bank	-	1266+25	East of I-15	3410	P	N/A	N/A	NO	3' min	LOW	N						NC			Pothole required to confirm (vert).
437	22R	N/A	SC Edison	Overhead Power Line	14	"I-15" 290+00	I-15 and Falchion Rd	1200	P	N/A	N/A	YES	–	–	Y		X				RB			
521	22R	N/A	Verizon	Overhead Line	-	290+00	I-15 and Falchion Rd	1200	P	N/A	N/A	YES	–	–	Y		X				RB			
U-23R																								
431	23R	N/A	Southwest Gas	2" Gas Line	-	167+50	D Street	170	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
432	23R	N/A	Southwest Gas	4" Gas Line	-	169+10	D Street	890	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
433	23R	N/A	City of Victorville	10"/12" Sewer Line	-	206+10	Stoddard Wells Rd	960	P	N/A	N/A	NO	7'	–	Y				X		PC			Pothole required to confirm (vert).
434	23R	N/A	Southwest Gas	4" Gas Line	-	218+50	Stoddard Wells Rd	880	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
435	23R	N/A	SC Edison	Overhead Power Line	29	210+00	East side of I-15 and Falchion Rd	11500	P	N/A	N/A	YES	–	–	Y		X				RB			
500	23R	N/A	SC Edison	Overhead Power Line	-	165+80	D Street	970	P	N/A	N/A	YES	–	–	Y		X				RB			
501	23R	N/A	SC Edison	Underground Power Line	-	168+10	D Street	350	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
502	23R	N/A	SC Edison	Overhead Power Line	3	169+50	D Street	820	P	N/A	N/A	YES	–	–	Y		X				RB			
503	23R	N/A	SC Edison	Underground Power Line	-	166+00	D Street	20	P	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
504	23R	N/A	SC Edison	Overhead Power Line	3	216+30	Stoddard Wells Rd	255	P	N/A	N/A	YES	–	–	Y		X				RB			
505	23R	N/A	SC Edison	Overhead Power Line	3	223+00	Stoddard Wells Rd	390	P	N/A	N/A	YES	–	–	N						NC			
520	23R	N/A	Verizon	Overhead Line	-	215+00 to 230+00	Stoddard Wells Rd	6394	P	N/A	N/A	YES	–	–	Y		X				RB			
U-24R																								
660	24R	N/A	SC Gas	30" HP Gas Line	-	30614+30	Approx. 1,000' west of I-15	185	R	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required for vert. clearance
661	24R	N/A	Victor Valley wastewater Reclamation Authority	21" Sewer Line	-	373+90	Stoddard Wells Road	200	P	N/A	N/A	NO	N/A	–	N						NC			Pothole required for vert. clearance
U-25R																								
670	25R	N/A	Level 3 communications	Telecommunications Line	-	30672+30	Quarry Road	185	R	N/A	N/A	NO	N/A	–	Y				X		PC			Pothole required for vert. clearance
671	25R	N/A	DWP	Overhead Power Line	1 Tower	30724+20	Approx. 2,500' west of I-15	435	R	N/A	N/A	NO	N/A	–	Y		X				RB			
672	25R	N/A	DWP	Overhead Power Line	1 Tower	30731+80	Approx. 2,500' west of I-15	450	R	N/A	N/A	NO	N/A	–	Y		X				RB			
673	25R	N/A	DWP	Overhead Power Line	1 Tower	30741+90	Approx. 2,500' west of I-15	555	R	N/A	N/A	NO	N/A	–	Y		X				RB			
674	25R	N/A	DWP	Overhead Power Line	1 Tower	30749+60	Approx. 2,500' west of I-15	580	R	N/A	N/A	NO	N/A	–	Y		X				RB			
U-26R																								
441	26R	N/A	Verizon	Fiber Optic Line	-	1470+00	Dale Evans Parkway	2110	P	N/A	N/A	NO	N/A	LOW	Y				X		PC			Pothole required for vert. clearance
442	26R	N/A	SC Edison	Overhead Power Line	3	1477+00	Between Dale Evans Parkway and Comanche Rd	670	P	N/A	N/A	YES	–	–	Y		X				RB			
443	26R	N/A	Apple Valley County Water District	12" Water line	-	1477+40	Between Dale Evans Parkway and Comanche Rd	650	P	N/A	N/A	NO	4' min	–	Y				X		PC			Pothole required for vert. clearance
444	26R	N/A	Town Of Apple Valley	12" Sewer Line	-	1480+90	Between Dale Evans Parkway and Comanche Rd	540	P	N/A	N/A	NO	10'	–	N						NC			Pothole required to confirm (vert).
445	26R	N/A	Apple Valley County Water District	14" Water Line	-	1491+00	Comanche Rd	530	P	N/A	N/A	NO	3' min	–	Y				X		PC			Pothole required to confirm (vert).
446	26R	N/A	SC Edison	Overhead Power Line	6	1503+00	Between Comanche Rd and Ramona Rd	990	P	N/A	N/A	YES	–	–	Y				X		PC			Pothole required to confirm (vert).
447	26R	N/A	SouthWest Gas	High Pressure Gas Line	-	1510+25	Ramona Rd	520	P	N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required to confirm (vert).
448	26R	N/A	SC Edison	Overhead Power Line	3	1528+80	Carmel Ln	510	P	N/A	N/A	YES	–	–	Y				X		PC			Pothole required to confirm (vert).
449	26R	N/A	Charter Communications	Overhead Fiber Optic Line	-	1528+80	Carmel Ln	500	P	N/A	N/A	YES	–	–	Y				X		PC			Pothole required to confirm (vert).

P -Proposed Alternative
A -Variation A
B -Variation B
D -Variation D
E -Variation E
R -High Speed Rail (HSR)
R1-HSR Alt 1
R7-HSR Alt 7

Notes:
OH 66kv/4kv assigned to high risk
RD -For UG Utilities
RB -For OH Utilities

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Conflict #	Utility Sheet #	Pothole/ Manhole No.	Owner	Utility Description	Number of Utility Poles	Conflict Station	Conflict Location	Length (ft) (within proposed right-of-way limits)	Affected Alternative	Investigation			Depth to Top	Risk Level	Impact?	Action					Util. Reloc. A- Abandon RB-Reloc. Before RD- Reloc. During P-Protect NC-No Conflict PC-Potential Conflict	Resp. Party U-Utility Co. C-Contractor	Required Completion Date	Comments
										Pothole	Manhole	Overhead	(ft)	High Low	Y/N	Remove	Relocate	Protect in Place	Potential Conflict	Other			
U-27R																							
452	27R	N/A	SC Edison	Overhead Power Line	7	1544+25	Waalew Rd	960		N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert).
453	27R	N/A	SouthWest Gas	High Pressure Gas Line	-	1546+10	Waalew Rd	1940		N/A	N/A	NO	N/A	**HIGH**	Y				X		PC			Pothole required to confirm (vert).
454	27R	N/A	SC Edison	Overhead Power Line	3	1570+25	Between Waalew Rd and Cahuilla Rd	390		N/A	N/A	YES	-	-	Y				X		PC			Pothole required to confirm (vert).
455	27R	N/A	SouthWest Gas	High Pressure Gas Line	-	1603+25	Central Rd	2330		N/A	N/A	NO	N/A	HIGH	N						NC			Pothole required for vert. clearance
456	27R	N/A	Sunesys	Fiber Optic Line (OH & UG)	-	1609+10	Cahuilla Rd	1310		N/A	N/A	BOTH	2.5'	LOW	Y		X				RB			135' UG
457	27R	N/A	SC Edison	Overhead Power Line	5	1609+10	Cahuilla Rd	1310		N/A	N/A	YES	-	-	Y		X				RB			
458	27R	N/A	SC Edison	Overhead Power Line	5	1666+60	Joshua Rd	1390		N/A	N/A	YES	-	-	Y		X				RB			
459	27R	N/A	SC Edison	Overhead Power Line	3	91+50	Joshua Rd	2700		N/A	N/A	YES	-	-	Y		X				RB			
460	27R	N/A	SC Edison	Overhead Power Line	15	1662+50	Joshua Rd	980		N/A	N/A	YES	-	-	Y		X				RB			
462	27R	N/A	SC Edison	Overhead Power Line	4	1604+00	Central Rd	850		N/A	N/A	YES	-	-	Y		X				RB			
U-28R																							
471	28R	N/A	SC Edison	Overhead Power Line	3	1698+50	Shirwaun Rd	990		N/A	N/A	YES	-	-	Y		X				RB			
472	28R	N/A	SC Edison	Underground Power Line (12kV)	-	1702+80	Shirwaun Rd	140		N/A	N/A	NO	N/A	HIGH	N						NC			Within R/W; Outside of project limits
473	28R	N/A	SC Edison	Overhead Power Line	6	1730+50	Standing Rock Rd	2280		N/A	N/A	YES	-	-	Y		X				RB			
474	28R	N/A	SC Edison	Overhead Power Line	1	1783+90	Between Standing Rock Ave and Yucca Loma Rd	300		N/A	N/A	YES	-	-	Y		X				RB			
475	28R	N/A	SC Edison	Overhead Power Line	2	1809+30	Yucca Loma Rd	210		N/A	N/A	YES	-	-	Y		X				RB			
476	28R	N/A	SC Edison	Overhead Power Line	1	1809+30	Yucca Loma Rd	190		N/A	N/A	YES	-	-	N						NC			
477	28R	N/A	SC Edison	Overhead Power Line	19	1908+70	Yucca Loma Rd	2900		N/A	N/A	YES	-	-	Y		X				RB			
U-29R																							
491	29R	N/A	SC Edison	Overhead Power Line	1	1836+00	Ottawa Rd	310		N/A	N/A	YES	-	-	Y			X			P			Pothole required for vert. clearance
492	29R	N/A	SC Edison	Overhead Power Line	4	1951+50	Between Ottawa Rd and Nisqually Rd	1070		N/A	N/A	YES	-	-	Y		X				RB			
493	29R	N/A	South West Gas	High Pressure Gas Pipe	-	1964+25	Nisqually Rd	980		N/A	N/A	NO	N/A	HIGH	N						NC			
494	29R	N/A	SC Edison	Overhead Power Line	6	1898+00	Between Nisqually Rd and Bear Valley Rd	80		N/A	N/A	YES	-	-	Y		X				RB			Conflict along frontage road.
495	29R	N/A	SC Edison	Overhead Power Line	8	1936+30	Bear Valley Rd	1090		N/A	N/A	YES	-	-	Y		X				RB			

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