

Appendix A-1. JEFFERSON-MARTIN 230 kV TRANSMISSION PROJECT
CONSTRUCTION METHODS REPORT TABLE
OVERHEAD TRANSMISSION LINE

MV-J	New Str. #	Ex. Str. #	New Str. Type'	New Str. Ht.	Line Angle	MP	Twr Inst. w/ Op. #1	Twr Inst. w/ Op. #2	Pull Sec.	Aerial Ref.	Site	Comments	Construction Method	Access	
	19/84	19/84	LAT	120	-		C	C		JM-2	Relocate Str.	Monta Vista-Jefferson	Conventional (Drill Rig and Crane)	Access via Canada Road.	
SECTION #1 (17 Structures)	0/1	-	TSP. g95_lt_base_05	116.5	0	0	C	C		JM-2	New		Conventional (Drill Rig and Crane)	Access via Jefferson Substation.	
	0/2	0/3	LAT g95_rt_base_25	115	18	0.19	H	H		JM-2	New (Approx. 50' upstation from 0/3)		Hand excavate foundation. Fly in structure.	Air. Foot: Access using footpath, via Canada Road.	
	0/3	0/4	LAT 3n_base_25	115	1	0.35	H	H		JM-3-4	Common		Hand excavate foundation. Fly in structure.	Air. Foot: Access using dirt road, via Edgewood Park service road.	
	0/4	0/5	LAT 4g_base_45	135	T	0.54	H	H		JM-3-4	Common		Hand excavate foundation. Fly in structure.	Air. Foot: Access from south along overhead line right-of-way, via dirt road, via Edgewood Park service road.	
	0/5	0/6	LAT 3n_base_30	120	-7	0.79	H	H		JM-5	Common		Hand excavate foundation. Fly in structure.	Air. Foot: Access using Edgewood Park service road.	
	0/6	1/7	LAT g95_lt_base_40	131.5	-27	0.99	C	H		JM-6-7-8	Common	Ext. PCS ANT. Cable pulling site n. of site.	Conventional (Drill Rig and Crane)	Access using gravel road, via Edgewood Road.	
	1/7	1/8	LAT 4g_base_50	140	T	1.22	C	H		JM-6-7-8	Common		Conventional (Drill Rig and Crane)	Access using dirt road, via gravel road, via Edgewood Road.	
	1/8	1/9	LAT g94_lt_base_15	106.5	-27	1.35	C	H		JM-6-7-8	Common	Cable pulling site.	Conventional (Drill Rig and Crane)	Access using dirt road, via gravel road, via Edgewood Road.	
	1/9	1/10	LAT 3n_base_15	105	-6	1.51	H	H		JM-9	Common	Cable pulling site n.-nw. of Str. Sideslope.		Hand excavate if possible, otherwise excavate with drill rig. Fly in structures.	Structure location is on sideslope above nearest access. Access using dirt road from south. Will require construction (cut) of a 200 ft. dirt road from existing dirt road.
	1/10	1/11	LAT g94_rt_base_15	106.5	23	1.70	C	H		JM-10-11	Common		Conventional (Drill Rig and Crane)		
	1/11	1/12	LAT 4g_base_15	105	T	1.84	C	H		JM-10-11	Common		Conventional (Drill Rig and Crane)	Re-establish (drive on existing ground) gas pipeline dirt road. Access structure from south using this re-established dirt road, via existing dirt road near structure 1/9.	
	2/12	2/13	LAT 4g_base_30	120	1	1.96	C	H		JM-11-12	Common		Conventional (Drill Rig and Crane)	Install temporary bridge over creek (near exposed gas pipes). Access structure from south using this bridge and re-established (drive on existing ground) dirt road. Alternate access from Canada Road.	
	2/13	2/14	LAT g95_rt_base_40	141.5	69	2.16	C	H		JM-13-14	Common	Cable pulling sites north and west of str.	Conventional (Drill Rig and Crane)	Access from west along draw from Canada Road.	
	2/14	2/15	LAT g95_lt_base_30	121.5	-52	2.30	C	H		JM-13-14	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access from west along draw from Canada Road.	
	2/15	2/16	LAT g94_lt_base_45	136.5	-23	2.52	H	H		JM-15-16A	Common	Sideslope. Tree removal.	Conventional (Drill Rig and Crane)	Hand excavate foundation. Fly in structure.	No access identified from existing dirt road.
	2/16A	2/17	TSP. 230dvd334	90	30	2.67	C	C		JM-15-16A	Common		Conventional (Drill Rig and Crane)	Access from gravel road.	
	2/16B	-	TSP. 115dvd3sw20	75		2.67	C	C		-	New	3-way switch. Offset 30' RT.	Conventional (Drill Rig and Crane)	Access from gravel road.	
SECTION #2 (11 Structures)	2/17	3/18	LAT 4g_base_05	95	2	2.86	C	H		JM-17-18	Common	Cable pulling site north of structure.	Conventional (Drill Rig and Crane)	Access from north using dirt road.	
	3/18	3/19	LAT 3n_base_30	120	-5	3.06	C	H		JM-17-18	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access from north or south using dirt road.	
	3/19	3/20	LAT g94_lt_base_40	131.5	-9	3.30	C	H		JM-19-20	Common		Conventional (Drill Rig and Crane)	Access from north or south using dirt road.	
	3/20	3/21	LAT 4g_base_35	125	T	3.49	C	H		JM-19-20	Common		Conventional (Drill Rig and Crane)	Access from north or south using dirt road.	
	3/21	3/22	LAT 3n_base_50	140	6	3.76	C	H		JM-21-22	Common	Tree removal required. Sideslope.	Conventional (Drill Rig and Crane)	Create (blade and leveling may be required) access from south, via existing dirt road.	
	3/22	4/23	LAT g95_lt_base_45	136.5	-40	4.01	C	H		JM-21-22	Common	Heavy brush clearing required	Conventional (Drill Rig and Crane)	Re-establish (drive on existing ground) abandoned dirt road. Access using this re-established dirt road, via Canada Road.	
	4/23	4/24	LAT g95_rt_base_35	136.5	49	4.27	C	H		JM-23-24	Common	Heavy brush clearing req'd. Cable pulling site NW and SE of Str. And on ridge top between 4/23 and 4/24.	Conventional (Drill Rig and Crane)	Re-establish (drive on existing ground) abandoned dirt road. Access using this re-established dirt road, via Canada Road.	
	4/24	4/24A	LAT g95_rt_base_35	136.5	25	4.46	C	H		JM-23-24	Common	Heavy brush clearing required. Cable pulling site south of Structure.	Conventional (Drill Rig and Crane)	Re-establish abandoned dirt road. Access using this dirt road, via Canada Road.	
	4/25	4/25	LAT g95_lt_base_40	131.5	-35	4.66	C	H		JM-25	Common	Cable pulling site NE of structure.	Conventional (Drill Rig and Crane)	Construct (cut and fill may be required) dirt road from gas pipeline facility south west to structure. Benching near structure for equipment is required. Access using this new dirt road, via existing dirt road, via Hwy. 92.	
	4/26	4/25	LAT 3n_base_25	115	1	4.95	C	C		JM-26-27	New (Approx. 130' upstation from existing 4/25)	Cable pulling site.	Conventional (Drill Rig and Crane)	Access from south using dirt road, via Tower Road.	
	5/27	5/27	LAT g95_rt_base_20	111.5	T	5.14	C	C		JM-26-27	New (Approx. 290' upstation from existing 5/27)	Raiston Substation. Cable pulling site So. of Str. Two-pole Str. Tap. Arms No. & So.	Conventional (Drill Rig and Crane)	Access from north using dirt road, via Tower Road.	
SECTION #3 (9 Structures)	5/28	5/28	LAT 4g_base_15	105	T	5.27	C	C		JM-28-29-30	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	5/29	5/29	LAT 4g_base_20	110	T	5.40	C	C		JM-28-29-30	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	5/30	5/30	LAT g94_lt_base_30	121.5	-16	5.55	C	C		JM-28-29-30	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	5/31	5/31	LAT 4g_base_35	125	T	5.73	C	C		JM-31-32	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	5/32	5/32	LAT 3n_base_35	125	7	5.90	C	C		JM-31-32	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	6/33	6/33	LAT 4g_base_45	135	T	6.07	C	H		JM-33-34	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	6/34	6/34	LAT 4g_base_45	135	T	6.27	C	H		JM-33-34	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access from south using dirt road, via tower Road or from North on dirt road, via Bunker Drive.	
	6/35	6/35	LAT g95_lt_base_25	116.5	32	6.46	C	H		JM-35-36-37	Common	Tap to Hillsdale.	Conventional (Drill Rig and Crane)	Access from south using dirt road.	
	6/35A	-	TSP. 115dvd330	75	T	6.48	C	C		JM-35-36-37	New	Tap structure. LSP	Conventional (Drill Rig and Crane)	Access from south using dirt road.	
SECTION #4 (4 Str.)	6/36	6/36	LAT 4g_base_15	105	T	6.55	C	H		JM-35-36-37	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access from south using dirt road.	
	6/37	6/37	LAT g95_lt_base_15	106.5	-16	6.67	C	H		JM-35-36-37	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road.	
	6/38	6/38	LAT g95_rt_base_15	106.5	15	6.96	H	H		JM-38	Common	Sideslope. Tree removal.	Hand dig foundation. Fly in structure.	Air. Foot: Access from east through residential property, via Berryessa Way.	
	7/39	7/39	TSP. 3n_base_50	140	-7	7.14	C	C		JM-39-40	Common	Tap to Crystal Springs. New TSP. Cable pulling site north of structure.	Conventional (Drill Rig and Crane)	Access from north using dirt road, via rest area entrance.	
SECTION #5 (12 Structures)	7/40	7/40	LAT g94_rt_base_60	151.5	9	7.35	C	H		JM-39-40	Common	Staging area south of structure.	Conventional (Drill Rig and Crane)	Access from north using dirt road, via rest area entrance.	
	7/41	7/41	TSP. v2sg16	90	T	7.49	C	C		JM-41-42-43	Common	LSP	Conventional (Drill Rig and Crane)	Access from north using dirt road, via rest area entrance.	
	7/42	7/42	TSP. v2sg16	100	T	7.65	C	C		JM-41-42-43	Common	LSP	Conventional (Drill Rig and Crane)	Access from north using dirt road, via rest area entrance.	
	7/43	7/43	TSP. v2sg16	110	T	7.74	C	C		JM-41-42-43	Common	LSP	Conventional (Drill Rig and Crane)	Access from north using dirt road, via rest area entrance.	
	7/44	7/44	LAT g95_lt_base_25	116.5	-36	7.89	C	C		JM-44-45-46	Common	Cable pulling site n. and s. of str.	Conventional (Drill Rig and Crane)	Access from north using dirt road, via gate to Wedgewood Road.	
	7/45	7/45	TSP. v2sg16	100	-2	8.00	C	C		JM-44-45-46	Common	LSP	Conventional (Drill Rig and Crane)	Access from south using dirt road, via gate to Wedgewood Road.	
	8/46	7/46	TSP. v2sg16	110	-2	8.12	C	C		JM-44-45-46	Common	LSP	Conventional (Drill Rig and Crane)	Access from south using dirt road, via gate to Wedgewood Road.	
	8/47	8/47	TSP. v2sg16	110	T	8.23	C	C		JM-47-48	Common	LSP	Conventional (Drill Rig and Crane)	Access from south using dirt road, via gate to Wedgewood Road / Black Mountain Road.	
	8/48	8/48	LAT 4g_base_40	130	T	8.38	C	H		JM-47-48	Common		Conventional (Drill Rig and Crane)	Access from Skyline Road.	
	8/49	8/49	LAT g94_rt_base_40	131.5	9	8.58	C	H		JM-49-50-51	Common		Conventional (Drill Rig and Crane)	Access from Skyline Road.	
	8/50	8/50	LAT 3n_base_15	105	6	8.69	C	H		JM-49-50-51	Common		Conventional (Drill Rig and Crane)	Access from Skyline Road.	
	8/51	8/51	TSP. g95_rt_base_15	106.5	3	8.77	C	C		JM-49-50-51	Common	Carolands Substation. Cable pulling site. Tree removal from Str. 851 to 200 ft. south.	Conventional (Drill Rig and Crane)	Access from Skyline Road.	
SECTION #6 (27 Structures)	8/52	8/52	LAT g94_lt_base_25	116.5	-18	8.86	C	C		JM-52-53	Common		Conventional (Drill Rig and Crane)	Access off Skyline Blvd.	
	8/53	8/53	LAT g94_rt_base_35	126.5	24	9.02	C	C		JM-52-53	Common	Cable pulling site north of structure.	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/54	9/54	TSP. -	121.5	-13	9.18	C	C		JM-54-55-56	Common		Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/55	9/55	TSP. v2sg16	100	3	9.27	C	C		JM-54-55-56	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/56	9/56	TSP. v2sg16	110	-1	9.37	C	C		JM-54-55-56	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/57	9/57	TSP. v2sg16	110	T	9.51	C	C		JM-57-58-59-60	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/58	9/58	TSP. v2sg16	110	T	9.60	C	C		JM-57-58-59-60	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/59	9/59	TSP. v2sg16	100	T	9.71	C	C		JM-57-58-59-60	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/60	9/60	TSP. v2sg16	90	-1	9.80	C	C		JM-57-58-59-60	Common	LSP	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/61	9/61	LAT g94_lt_base_05	96.5	-23	9.88	C	C		JM-61-62-63	Common	Cable pulling site north of structure.	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	9/62	9/62	LAT g94_rt_base_15	106.5	18	9.96	C	C		JM-61-62-63	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access off Golf Course Road.	
	10/63	9/63	TSP. v2sg16	110	T	10.09	C	C		JM-61-62-63	Common	Cable pulling site north of structure. LSP.	Conventional foundation installation.	Access from north using dirt road, via water dept. storage yard.	
	10/64	10/64	TSP. v2sg16	100	T	10.22	C	C		JM-64-65-66-67	Common	LSP	Conventional foundation installation.	Access from south using dirt road, via water dept. storage yard.	
	10/65	10/65	LAT 3n_base_05	95	6	10.31	C	C		JM-64-65-66-67	Common		Conventional foundation installation.	Access from south using dirt road, via water dept. storage yard.	
	10/66	10/66	TSP. v2sg16	110	T	10.46	C	C		JM-64-65-66-67	Common	LSP.	Conventional foundation installation.	Access from south using dirt road, via water dept. storage yard.	
	10/67	10/67	LAT 4g_base_15	105	T	10.56	C	H		JM-64-65-66-67	Common		Conventional foundation installation. Fly in structures.	Access from south using dirt road, via water dept. storage yard.	
	10/68	10/68	LAT g94_lt_base_40	131.5	-15	10.73	C	C		JM-68	Common	Cable pulling site south of structure.	Conventional foundation installation.	Access from south using dirt road, via water dept. storage yard.	
	10/69	10/69	LAT g95_rt_base_45	136.5	34	11.00	C	C		JM-69-70	New (NW of existing structure)	Cable pulling site NW and NE of str. Trim/remove trees for wire clearance.	Conventional (Drill Rig and Crane)	Access from north using dirt road.	
	11/70	11/70	LAT g94_lt_base_05	96.5	-22	11.12	C	C		JM-69-70	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access off gravel road.	
	11/71	11/71	LAT 3n_base_05	95	-3	11.31	H	H		JM-71-72	Common		Conventional (Drill Rig and Crane)	Access from south using dirt road.	
	11/72	11/72	LAT g94_rt_base_05	96.5	26	11.46	C	H		JM-71-72	Common		Conventional foundation installation. Fly in structures.	Need to construct (cut and fill) new access road from south.	
	11/73	11/73	LAT g94_lt_base_15	106.5	-21	11.65	C	C		JM-73-74	Common		Conventional (Drill Rig and Crane)	Access from east using dirt road.	
	11/74	11/74	LAT g94_lt_base_20	111.5	-22	11.81	C	C		JM-73-74	Common	Cable pulling site north and south of structure.	Conventional (Drill Rig and Crane)	Access from Sawyer Camp Trail.	
	11/75	11/75	LAT g95_lt_base_15	106.5	46	11.91	C	C		JM-75-76-77	Common	Cable pulling site northeast of structure.	Conventional (Drill Rig and Crane)	Access from Sawyer Camp Trail.	
	12/76	11/76	LAT g94_lt_base_10	101.5	-33	12.08	C	C		JM-75-76-77	Common	Cable pulling site SW and N of str.	Conventional (Drill Rig and Crane)	Access from Sawyer Camp Trail.	
	12/77	12/77	LAT g94_rt_base_15	106.5	14	12.20	C	C		JM-75-76-77	Common	Cable pulling site south of structure.	Conventional (Drill Rig and Crane)	Access from Sawyer Camp Trail.	
	12/78	12/78	LAT g95_lt_base_25	116.5	-15	12.36	C	C		JM-78-79-80	Common	Tap to Milbrae			