APPENDIX 3-D

PROPOSED PROJECT STRUCTURE DETAIL TABLE

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Proposed New 230 kV Structures			
P01	Install	130	Single-circuit, deadend tubular steel pole; dull galvanized; concrete foundation; 14-foot crossarms; would support TL 23051
P02	Install	135	Single-circuit, deadend tubular steel pole; dull galvanized; concrete foundation; 20-foot crossarms; would support TL 230XX[3]
Proposed New 69 kV Structures			
P03	Install	79 including foundation	Single-circuit, deadend tubular steel cable pole; dull galvanized; concrete foundation; would support TL 616
P04	Install	79 including foundation	Single-circuit, deadend tubular steel cable pole; dull galvanized; concrete foundation; would support TL 6974 & SDG&E Communication Cable
P05	Install	79 including foundation	Double-circuit, deadend tubular steel cable pole; dull galvanized; concrete foundation; would support TL 6939 / 6974 / & SDG&E Communication Cable
P20	Install	79 including foundation	Double-circuit, deadend tubular steel cable pole; dull galvanized; concrete foundation; would support TL 6939 / 6974 / & SDG&E Communication Cable
P21	Install	79 including foundation	Single-circuit, deadend tubular steel cable pole; dull galvanized; concrete foundation; would support TL 6974 & SDG&E Communication Cable

[1] Refer to Appendix 3-B, Detailed Route Map, for location of all referenced Proposed Project features. Structure numbers with the prefix "P" denote new structures to be installed (including replacement structures); structures numbers with the prefix "R" denote existing structures to be removed from service; and structure numbers with the prefix "E" denote existing structures to be utilized in place.

[2] Exact pole heights and locations may vary depending upon field conditions.

[3] Note that once existing TL23051 is connected to the Artesian Substation, the line will electrically be split into two circuits, requiring the segment north of the Artesian Substation to be given a new Tie Line designation.

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Proposed 69 kV Replacement Structures (cont.)			
P06	Install	75	Double-circuit, tangent tubular steel pole; Weathering[4] steel; direct bury; would replace existing 73-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P07	Install	70	Double-circuit, deadend tubular steel pole; Weathering steel; concrete foundation; would replace existing 72-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P08	Install	66	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 67-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P09	Install	75	Double-circuit deadend tubular steel pole; Weathering steel; concrete foundation; would replace existing 73-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P10	Install	75	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 76-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P11	Install	75	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 69-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable

[4] "Weathering" steel has a brown or rust-colored hue and is also commonly referend to as "weathering" or "weathered" steel

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Proposed 69 kV Replacement Structures (cont.)			
P12	Install	79	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 64-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P13	Install	79	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 75-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P14	Install	80	Double-circuit deadend tubular steel pole; Weathering steel; concrete foundation; would replace existing 69-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P15	Install	79	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 79-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P16	Install	61	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 60-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P17	Install	75	Double-circuit tangent tubular steel pole; Weathering steel; direct bury; would replace existing 75-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
P18	Install	60	Double-circuit deadend tubular steel pole; Weathering steel; concrete foundation; would replace existing 55-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
P19	Install	75	Double-circuit deadend tubular steel pole; Weathering steel; concrete foundation; would replace existing 64-foot wood structure; would support TL 6939 / 6974 / & SDG&E Communication Cable
Existing 69 kV Structures			
E01	Utilize in place	79	Single-circuit wood cable pole; extend underground trench and install new underground cable; would support TL 6920
E04	Utilize in place	70	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E05	Utilize in place	66	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E06	Utilize in place	66	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E07	Utilize in place	61	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E08	Utilize in place	61	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E09	Utilize in place	64	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Existing 69 kV Structures (cont.)			
E10	Utilize in place	61	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E11	Utilize in place	62	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E12	Utilize in place	64	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E13	Utilize in place	69	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E14	Utilize in place	77	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E15	Utilize in place	66	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E16	Utilize in place	61	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E17	Utilize in place	65	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E18	Utilize in place	63	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E19	Utilize in place	63	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Existing 69 kV Structures (cont.)			
E20	Utilize in place	64	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E21	Utilize in place	65	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E22	Utilize in place	65	Double-circuit deadend wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E23	Utilize in place	64	Double-circuit tangent wood pole; reframe pole top; would support TL 6939 / 6974 / & SDG&E Communication Cable
E24	Utilize in place	70	Single-circuit dead end wood cable pole; reframe pole top and replace underground cable; would support TL 648
69 kV Structures to be Removed			
R01	Remove from service	71	Single-circuit deadend wood cable pole structure to be removed from service; supports TL6939
R02	Remove from service	70	Single-circuit tangent wood structure to be removed from service; supports TL6939
R03	Remove from service	70	Single-circuit deadend wood structure to be removed from service; supports TL6939
R05	Remove from service	69	Single-circuit deadend wood structure to be removed from service; supports TL616
R07	Remove from service	61	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
69 kV Structures to be Removed (cont.)			
R10	Remove from service	58	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939
R11	Remove from service	61	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939
R12	Remove from service	70	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939
R18	Remove from service	75	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939
R19	Remove from service	64	Double-circuit tangent wood structure to be removed from service; supports TL616 & 6939
R20	Remove from service	67	Single-circuit deadend wood structure to be removed from service; supports TL6939
R21	Remove from service	73	Single-circuit deadend wood structure to be removed from service; supports TL616
R22	Remove from service	69	Single-circuit deadend wood structure to be removed from service; supports TL6939
R23	Remove from service	75	Single-circuit deadend wood structure to be removed from service; supports TL616
Distribution-only, Communication-only, and Stub[5] Poles			
E02	Utilize in place	43	Distribution-only wood structure; open and close switch work

[5] "Stub" poles are structural support structures that are connected to overhead powerline structures by guy wires to provide additional support to the powerline structure. Stub poles are typically wood, and do not support electrical conductors.

Structure Detail Table

Site Location/ Structure Number[1]	Proposed Action(s)	Approximate Above Ground Structure Height(s) in Feet[2]	Details
Distribution-only, Communication-only, and Stub Poles (cont.)			
E03	Utilize in place	48	Distribution-only wood structure; cross-arm work
R04	Remove from service	25	Wood stub pole to be removed from service
R06	Remove from service	28	Distribution-only steel structure to be removed from service
R08	Remove from service	29	Communication-only, wood structure to be removed from service
R09	Remove from service	26	Communication-only, wood structure to be removed from service
R13	Remove from service	19	Wood stub pole to be removed from service
R14	Remove from service	65	Wood stub pole to be removed from service
R15	Remove from service	28	Steel stub pole to be removed from service
R16	Remove from service	21	Steel stub pole to be removed from service
R17	Remove from service	63	Wood stub pole to be removed from service

***Table contents based upon preliminary engineering and are subject to change.**