

ATTACHMENT E: CONSTRUCTION EQUIPMENT SUMMARY

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)	
Transmission Lines	Improve Access Roads (per mile)	Bulldozer	Grade access roads	1	4	10	
		Road Grader	Grade access roads	1	4	10	
		Loader	Load haul trucks, transport materials	1	4	2	
		1-ton Pickup Truck	Transport personnel	1	4	3	
		Water Truck	Suppress dust	2	4	8	
		Mower	Mow vegetation	1	4	3	
	Construct Micropile Foundations (per foundation)	<i>Helicopter Set</i>					
		Portable Water Tank	Dust control	1	2	4	
		Drilling Rig	Drill foundation holes	1	2	8	
		Compressor	Operate tools	1	4	8	
		1-ton Pickup Truck	Transport personnel	1	4	3	
		Helicopter	Deliver materials, set plate	1	4	2	

Attachment E: Construction Equipment Summary

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Transmission Lines (cont.)	Construct Micropile Foundations (cont.)	<i>Truck Set</i>				
		Water truck	Dust/fire control	1	2	2
		Fork Lift	Moving equipment in the right-of-way	1	1	6
		Drilling Rig	Drill foundation holes	1	2	8
		Compressor	Operate tools	1	4	8
		Boom Truck	Set plate	1	1	4
		Flatbed Truck	Deliver materials	1	4	3
		1-ton Pickup Truck	Transport personnel	1	4	3
	Install Micropile Poles (per pole)	<i>Helicopter Set</i>				
		Helicopter	Deliver equipment, set pole base and top sections	1	1	1
		Compressor	Operate tools	1	1	1
		1-ton Pickup	Transport crews	1	1	1
		Flatbed Truck	Transport equipment to helicopter landing zone	1	1	1
		<i>Truck Set</i>				
Boom Truck		Set base and top section	1	1	3	

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)	
Transmission Lines (cont.)	Install Micropile Poles (cont.)	Bucket Truck	Frame structures/spread existing phases	1	1	3	
		Water Truck	Dust control	1	1	2	
		1-ton Pickup Truck	Transport personnel	1	1	2	
		Flatbed Truck	Transport equipment	1	1	2	
	Construct Direct-Bury Poles (per pole)	<i>Helicopter Set</i>					
		Compressor	Dig hole by hand	1	4	8	
		Concrete	Concrete backfill	1	1	2	
		Helicopter	Deliver equipment, bottom section, and top section of pole	1	2	0.5	
		1-ton Pickup Truck	Transport personnel	1	5	3	
		<i>Truck Set</i>					
		Drilling Rig	Drill anchor holes	1	3	8	
		Loader	Load spoil and waste	1	1	4	
		Water Truck	Dust/fire control	1	3	1	
		Air Compressor	Operate tools	1	3	8	
		Concrete Truck	Deliver slurry	1	1	2	

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Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Transmission Lines (cont.)	Construct Direct-Bury Poles (cont.)	Bucket Truck	Set the top section of the pole	1	1	2
		Flatbed Truck	Deliver pole sections	1	1	3
		1-ton Pickup Truck	Transport personnel	1	3	3
		Boom Truck	Set base and top section	1	1	2
	String Conductor (per phase)	Puller and Tensioner	Pull new conductor into place and secure at correct tension	1	1	3
		Reel Trailer	Feed new conductor to the pulling rig	1	1	3
		Bucket Truck	Install conductor and act as guard structure	1	1	3
		1-ton Pickup Truck	Transport personnel	2	1	3
		Water Truck	Dust/fire control	2	1	3
	Undergrounding (TL629E, per 300 feet)	Saw Cut	Cut pavement and road materials	1	1	8
		Backhoe	Excavate	2	1	8
		Bobcat	Moving dirt and steel plates	1	1	2
		Dump Truck	Hauling dirt and asphalt	3	1	8
		Water Truck	Dust control, fire patrol	1	1	8

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Transmission Lines (cont.)	Undergrounding (cont.)	Concrete Truck	Slurry hauling	5	1	2
		Foreman Truck	Transport personnel	3	1	8
		Crew Truck	Transport personnel	2	1	8
		Air Compressor	Jackhammering, blowing rope in conduits	1	1	8
		Pavement Roller	Asphalt	1	1	8
		Vibrating Plate	Asphalt	1	1	2
		Bitumen (emulsion) Sprayer, Trailer-Mounted	Final street repair	1	1	1
		4-inch Grinder	Final street repair	1	1	3
		Spreader Box (large)	Final street repair	1	1	2
		Arrowboard	Traffic control	2	1	8
	Restore Right-of-Way	Grader	Recontour work area	1	2	10
		Haul Truck	Remove waste	1	7	10
		Mini Excavator	For water bars	1	2	10
		Bobcat	For water bars	1	2	10
		Water Truck	Dust control	1	7	10
		Hydroseed Truck	Replant vegetation	1	1	10
		1-ton Pickup Truck	Transport personnel	1	7	3

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Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)	
Transmission Lines (cont.)	Pole Removal – Ground Access	Boom Truck with Hydraulic Pole Puller	Remove existing pole	1	1	1	
	Pole Removal – No Ground Access	Hydraulic Pole Puller	Remove existing pole	1	1	2	
		Helicopter	Remove existing pole	1	1	0.5	
Distribution Lines	Improve Access Roads (per mile)	Bulldozer	Grade access roads	1	4	8	
		Road Grader	Grade access roads	1	4	8	
		Loader	Load haul trucks, transport materials	1	4	1.6	
		1-ton Pickup Truck	Transport personnel	1	4	2.4	
		Water Truck	Suppress dust	2	4	6.4	
		Mower	Mow vegetation	1	4	2.4	
	Construct Direct-Bury Poles (per pole)	<i>Helicopter Set</i>					
		Compressor	Dig hole by hand	1	4	6.4	
		Concrete	Concrete backfill	1	1	16	
		Helicopter	Deliver equipment, bottom section, and top section of pole	1	2	0.4	

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)	
Distribution Lines (cont.)	Construct Direct-Bury Poles (cont.)	1-ton Pickup Truck	Transport personnel	1	5	2.4	
		<i>Truck Set</i>					
		Drilling Rig	Drill anchor holes	1	3	6.4	
		Loader	Load spoil and waste	1	1	3.2	
		Water Truck	Dust/fire control	1	3	0.8	
		Air Compressor	Operate tools	1	3	6.4	
		Concrete Truck	Deliver slurry	1	1	1.6	
		Bucket Truck	Set the top section of the pole	1	1	1.6	
		Flatbed Truck	Deliver pole sections	1	1	2.4	
		1-ton Pickup Truck	Transport personnel	1	3	2.4	
		Boom Truck	Set base and top section	1	1	1.6	
	String Conductor (per phase)	Puller and Tensioner	Pull new conductor into place and secure at correct tension	1	1	3	

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Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Distribution Lines (cont.)	String Conductor (cont.)	Reel Trailer	Feed new conductor to the pulling rig	1	1	3
		Bucket Truck	Install conductor and act as guard structure	1	1	3
		1-ton Pickup Truck	Transport personnel	2	1	3
		Water Truck	Dust/fire control	2	1	3
	Undergrounding (C79, C440, and C449, per 300 feet)	Saw Cut	Cut pavement and road materials	1	1	8
		Backhoe	Excavate	2	1	8
		Bobcat	Moving dirt and steel plates	1	1	2
		Dump Truck	Hauling dirt and asphalt	3	1	8
		Water Truck	Dust control, fire patrol	1	1	8
		Concrete Truck	Slurry hauling	5	1	2
		Foreman Truck	Transport personnel	3	1	8
		Crew Truck	Transport personnel	2	1	8
		Air Compressor	Jackhammering, blowing rope in conduits	1	1	8
		Pavement Roller	Asphalt	1	1	8
Vibrating Plate	Asphalt	1	1	2		

Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Distribution Lines (cont.)	Undergrounding (cont.)	Bitumen (emulsion) Sprayer, Trailer-Mounted	Final street repair	1	1	1
		4-inch Grinder	Final street repair	1	1	3
		Spreader Box (large)	Final street repair	1	1	2
		Arrowboard	Traffic control	2	1	8
	Restore Right-of-Way (per mile)	Grader	Recontour work area	1	2	8
		Haul Truck	Remove waste	1	7	8
		Mini Excavator	For water bars	1	2	8
		Bobcat	For water bars	1	2	8
		Water Truck	Dust control	1	7	8
		Hydroseed Truck	Replant vegetation	1	1	8
		1-ton Pickup Truck	Transport personnel	1	7	2.4
	Pole Removal – Ground Access (per pole)	Boom Truck with Hydraulic Pole Puller	Remove existing pole	1	1	1

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Project Component	Activity	Equipment	Use	Approximate Quantity	Approximate Duration of Activity (days)	Average Duration of Use (hours per day)
Distribution Lines (cont.)	Pole Removal – No Ground Access (per pole)	Hydraulic Pole Puller	Remove existing pole	1	1	2
	Pole Removal – No Ground Access (cont.)	Helicopter	Remove existing pole	1	1	0.5