	Density Group 11-50																						
	Underground Normal							Underground Soft Rock							Underground Hard Rock								
Density Group 11-50	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Trench & Backfill	$ 2.38	71.00%	100.00%	$1.69	71.00%	99.00%	$1.67	$ 2.46	5.00%	100.00%	$0.12	8.00%	99.00%	$0.19	$ 3.28	0.00%	100.00%	$0.00	0.00%	99.00%	$0.00		
Rocky Trench	$ 4.37	0.00%	100.00%	$0.00	0.00%	99.00%	$0.00	$ 4.49	37.00%	100.00%	$1.66	51.00%	99.00%	$2.27	$ 5.67	55.00%	100.00%	$3.12	50.00%	99.00%	$2.81		
Backhoe Trench	$ 2.87	26.00%	100.00%	$0.75	19.00%	99.00%	$0.54	$ 3.00	45.00%	100.00%	$1.35	27.00%	99.00%	$0.80	$ 4.32	32.00%	100.00%	$1.38	37.00%	99.00%	$1.58		
Hand Dig Trench	$ 5.24	4.00%	100.00%	$0.21	2.00%	99.00%	$0.10	$ 5.43	4.00%	100.00%	$0.22	5.00%	99.00%	$0.27	$ 7.40	4.00%	100.00%	$0.30	5.00%	99.00%	$0.37		
Boring	$ 12.17	3.00%	100.00%	$0.37	2.00%	99.00%	$0.24	$ 12.45	3.00%	100.00%	$0.37	3.00%	99.00%	$0.37	$ 15.28	3.00%	100.00%	$0.46	2.00%	99.00%	$0.30		
Cut & Restore Asphalt	$ 8.90	2.00%	100.00%	$0.18	2.00%	99.00%	$0.18	$ 11.05	2.00%	100.00%	$0.22	2.00%	99.00%	$0.22	$ 12.47	2.00%	100.00%	$0.25	2.00%	99.00%	$0.25		
Cut & Restore Concrete	$ 9.79	2.00%	100.00%	$0.20	2.00%	99.00%	$0.19	$ 11.92	2.00%	100.00%	$0.24	2.00%	99.00%	$0.24	$ 13.23	2.00%	100.00%	$0.26	2.00%	99.00%	$0.26		
Cut & Restore Sod	$ 3.92	2.00%	100.00%	$0.08	2.00%	99.00%	$0.08	$ 4.73	2.00%	100.00%	$0.09	2.00%	99.00%	$0.09	$ 6.03	2.00%	100.00%	$0.12	2.00%	99.00%	$0.12		
Total Underground Cost per Foot		110.00%		$3.46	100.00%		$3.01		100.00%		$4.28	100.00%		$4.45		100.00%		$5.89	100.00%		$5.69		

	Buried Normal							Buried Soft Rock							Buried Hard Rock								
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Plow	$ 1.16	78.00%	100.00%	$ 0.90	80.00%	100.00%	$ 0.93	$ 1.17	35.00%	100.00%	$ 0.41	46.00%	100.00%	$ 0.54	$ 1.66	0.00%	100.00%	$ -	0.00%	100.00%	$ -		
Rocky Plow	$ 1.40	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.43	28.00%	100.00%	$ 0.40	28.00%	100.00%	$ 0.40	$ 1.70	48.00%	100.00%	$ 0.82	47.00%	100.00%	$ 0.80		
Trench & Backfill	$ 2.38	10.00%	100.00%	$ 0.24	11.00%	99.00%	$ 0.26	$ 2.46	10.00%	100.00%	$ 0.25	10.00%	99.00%	$ 0.24	$ 3.28	10.00%	100.00%	$ 0.33	10.00%	99.00%	$ 0.32		
Rocky Trench	$ 4.37	0.00%	100.00%	$ -	0.00%	99.00%	$ -	$ 4.49	5.00%	100.00%	$ 0.22	4.00%	99.00%	$ 0.18	$ 5.67	31.00%	100.00%	$ 1.76	29.00%	99.00%	$ 1.63		
Backhoe Trench	$ 2.87	5.00%	100.00%	$ 0.14	3.00%	99.00%	$ 0.09	$ 3.00	12.00%	100.00%	$ 0.36	2.00%	99.00%	$ 0.06	$ 4.32	2.00%	100.00%	$ 0.09	5.00%	99.00%	$ 0.21		
Hand Dig Trench	$ 5.24	1.00%	100.00%	$ 0.05	0.00%	99.00%	$ -	$ 5.43	3.00%	100.00%	$ 0.16	3.00%	99.00%	$ 0.16	$ 7.40	1.00%	100.00%	$ 0.07	1.00%	99.00%	$ 0.07		
Bore Cable	$ 12.17	0.00%	100.00%	$ -	0.00%	99.00%	$ -	$ 12.45	1.00%	100.00%	$ 0.12	1.00%	99.00%	$ 0.12	$ 15.28	1.00%	100.00%	$ 0.15	1.00%	99.00%	$ 0.15		
Push Pipe & Pull Cable	$ 7.10	0.00%	100.00%	$ -	0.00%	99.00%	$ -	$ 7.33	0.00%	100.00%	$ -	0.00%	99.00%	$ -	$ 9.61	1.00%	100.00%	$ 0.10	1.00%	99.00%	$ 0.10		
Cut & Restore Asphalt	$ 8.90	2.00%	100.00%	$ 0.18	2.00%	99.00%	$ 0.18	$ 11.05	2.00%	100.00%	$ 0.22	2.00%	99.00%	$ 0.22	$ 12.47	2.00%	100.00%	$ 0.25	2.00%	99.00%	$ 0.25		
Cut & Restore Concrete	$ 9.79	2.00%	100.00%	$ 0.20	2.00%	99.00%	$ 0.19	$ 11.92	2.00%	100.00%	$ 0.24	2.00%	99.00%	$ 0.24	$ 13.23	2.00%	100.00%	$ 0.26	2.00%	99.00%	$ 0.26		
Cut & Restore Sod	$ 3.92	2.00%	100.00%	$ 0.08	2.00%	99.00%	$ 0.08	$ 4.73	2.00%	100.00%	$ 0.09	2.00%	99.00%	$ 0.09	$ 6.03	2.00%	100.00%	$ 0.12	2.00%	99.00%	$ 0.12		
Total Buried Cost per Foot		100.00%		$ 1.79	100.00%		$ 1.72		100.00%		$ 2.48	100.00%		$ 2.25		100.00%		$ 3.95	100.00%		$ 3.91		

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock								
	Feeder				Distribution			Feeder				Distribution			Feeder				Distribution				
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount		
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.37	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38		
Anchors and Guys	$ 68.00	$ 255.00	100.00%	53.83	$ 255.00	100.00%	53.83	$ 285.00	100.00%	58.83		$ 285.00	100.00%	58.83	$ 310.00	100.00%	63.00		$ 310.00	100.00%	63.00		
Total Aerial Cost per Pole				$ 417.21			$ 417.21			$ 472.21				$ 472.21			$ 526.38				$ 526.38		

	Density Group 51-150																						
	Underground Normal							Underground Soft Rock							Underground Hard Rock								
Density Group 51-150	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Trench & Backfill	$ 2.48	46.00%	100.00%	$1.14	60.00%	90.00%	$1.34	$ 2.58	5.00%	100.00%	$0.13	8.00%	90.00%	$0.19	$ 3.51	0.00%	100.00%	$0.00	0.00%	90.00%	$0.00		
Rocky Trench	$ 4.52	0.00%	100.00%	$0.00	0.00%	90.00%	$0.00	$ 4.66	35.00%	100.00%	$1.63	48.00%	90.00%	$2.01	$ 6.00	53.00%	100.00%	$3.18	47.00%	90.00%	$2.54		
Backhoe Trench	$ 3.04	30.00%	100.00%	$0.91	18.00%	90.00%	$0.49	$ 3.19	38.00%	100.00%	$1.21	21.00%	90.00%	$0.60	$ 4.70	25.00%	100.00%	$1.18	31.00%	90.00%	$1.31		
Hand Dig Trench	$ 5.49	5.00%	100.00%	$0.27	5.00%	90.00%	$0.25	$ 5.72	4.00%	100.00%	$0.23	5.00%	90.00%	$0.26	$ 7.96	4.00%	100.00%	$0.32	5.00%	90.00%	$0.36		
Boring	$ 12.53	4.00%	100.00%	$0.50	2.00%	90.00%	$0.23	$ 12.86	3.00%	100.00%	$0.39	3.00%	90.00%	$0.35	$ 16.09	3.00%	100.00%	$0.48	2.00%	90.00%	$0.29		
Cut & Restore Asphalt	$ 9.09	5.00%	100.00%	$0.45	5.00%	90.00%	$0.41	$ 11.25	5.00%	100.00%	$0.56	5.00%	90.00%	$0.51	$ 12.88	5.00%	100.00%	$0.64	5.00%	90.00%	$0.58		
Cut & Restore Concrete	$ 9.96	4.00%	100.00%	$0.40	4.00%	90.00%	$0.36	$ 12.11	4.00%	100.00%	$0.48	4.00%	90.00%	$0.44	$ 13.60	4.00%	100.00%	$0.54	4.00%	90.00%	$0.49		
Cut & Restore Sod	$ 4.08	6.00%	100.00%	$0.24	6.00%	90.00%	$0.22	$ 4.92	6.00%	100.00%	$0.30	6.00%	90.00%	$0.27	$ 6.40	6.00%	100.00%	$0.38	6.00%	90.00%	$0.35		
Total Underground Cost per Foot		100.00%		$3.93	100.00%		$3.29		100.00%		$4.93	100.00%		$4.61		100.00%		$6.73	100.00%		$5.91		

	Buried Normal							Buried Soft Rock							Buried Hard Rock								
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Plow	$ 1.18	60.00%	100.00%	$ 0.71	69.00%	100.00%	$ 0.81	$ 1.20	20.00%	100.00%	$ 0.24	29.00%	100.00%	$ 0.35	$ 1.38	0.00%	100.00%	$ -	0.00%	100.00%	$ -		
Rocky Plow	$ 1.44	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.47	30.00%	100.00%	$ 0.44	30.00%	100.00%	$ 0.44	$ 1.77	45.00%	100.00%	$ 0.80	40.00%	100.00%	$ 0.71		
Trench & Backfill	$ 2.48	10.00%	100.00%	$ 0.25	11.00%	90.00%	$ 0.25	$ 2.58	10.00%	100.00%	$ 0.26	12.00%	90.00%	$ 0.28	$ 3.51	3.00%	100.00%	$ 0.11	7.00%	90.00%	$ 0.22		
Rocky Trench	$ 4.52	0.00%	100.00%	$ -	0.00%	90.00%	$ -	$ 4.66	8.00%	100.00%	$ 0.37	8.00%	90.00%	$ 0.34	$ 6.00	28.00%	100.00%	$ 1.68	32.00%	90.00%	$ 1.73		
Backhoe Trench	$ 3.04	6.00%	100.00%	$ 0.18	3.00%	90.00%	$ 0.08	$ 3.19	10.00%	100.00%	$ 0.32	2.00%	90.00%	$ 0.06	$ 4.70	2.00%	100.00%	$ 0.09	2.00%	90.00%	$ 0.08		
Hand Dig Trench	$ 5.49	5.00%	100.00%	$ 0.27	0.00%	90.00%	$ -	$ 5.72	5.00%	100.00%	$ 0.29	2.00%	90.00%	$ 0.10	$ 7.96	5.00%	100.00%	$ 0.40	2.00%	90.00%	$ 0.14		
Bore Cable	$ 12.53	3.00%	100.00%	$ 0.38	1.00%	90.00%	$ 0.11	$ 12.86	1.00%	100.00%	$ 0.13	1.00%	90.00%	$ 0.12	$ 16.09	1.00%	100.00%	$ 0.16	1.00%	90.00%	$ 0.14		
Push Pipe & Pull Cable	$ 7.39	1.00%	100.00%	$ 0.07	1.00%	90.00%	$ 0.07	$ 7.65	1.00%	100.00%	$ 0.08	1.00%	90.00%	$ 0.07	$ 10.27	1.00%	100.00%	$ 0.10	1.00%	90.00%	$ 0.09		
Cut & Restore Asphalt	$ 9.09	5.00%	100.00%	$ 0.45	5.00%	90.00%	$ 0.41	$ 11.25	5.00%	100.00%	$ 0.56	5.00%	90.00%	$ 0.51	$ 12.88	5.00%	100.00%	$ 0.64	5.00%	90.00%	$ 0.58		
Cut & Restore Concrete	$ 9.96	4.00%	100.00%	$ 0.40	4.00%	90.00%	$ 0.36	$ 12.11	4.00%	100.00%	$ 0.48	4.00%	90.00%	$ 0.44	$ 13.60	4.00%	100.00%	$ 0.54	4.00%	90.00%	$ 0.49		
Cut & Restore Sod	$ 4.08	6.00%	100.00%	$ 0.24	6.00%	90.00%	$ 0.22	$ 4.92	6.00%	100.00%	$ 0.30	6.00%	90.00%	$ 0.27	$ 6.40	6.00%	100.00%	$ 0.38	6.00%	90.00%	$ 0.35		
Total Buried Cost per Foot		100.00%		$ 2.96	100.00%		$ 2.31		100.00%		$ 3.46	100.00%		$ 2.96		100.00%		$ 4.91	100.00%		$ 4.54		

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock								
	Feeder				Distribution			Feeder				Distribution			Feeder				Distribution				
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount		
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.38	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38		
Anchors and Guys	$ 68.00	$ 255.00	100.00%	53.83	$ 255.00	100.00%	53.83	$ 285.00	100.00%	58.83		$ 285.00	100.00%	58.83	$ 310.00	100.00%	63.00		$ 310.00	100.00%	63.00		
Total Aerial Cost per Pole				$ 417.21			$ 417.21			$ 472.21				$ 472.21			$ 526.38				$ 526.38		

	Density Group 151-500																						
	Underground Normal							Underground Soft Rock							Underground Hard Rock								
Density Group 151-500	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Trench & Backfill	$ 2.59	35.00%	98.00%	$0.89	45.00%	80.00%	$0.93	$ 2.69	15.00%	98.00%	$0.40	15.00%	80.00%	$0.32	$ 3.74	0.00%	98.00%	$0.00	0.00%	80.00%	$0.00		
Rocky Trench	$ 4.67	0.00%	98.00%	$0.00	0.00%	80.00%	$0.00	$ 4.83	33.00%	98.00%	$1.56	32.00%	80.00%	$1.24	$ 6.34	50.00%	98.00%	$3.11	50.00%	80.00%	$2.54		
Backhoe Trench	$ 3.21	33.00%	98.00%	$1.04	23.00%	80.00%	$0.59	$ 3.38	20.00%	98.00%	$0.66	21.00%	80.00%	$0.57	$ 5.08	18.00%	98.00%	$0.90	18.00%	80.00%	$0.73		
Hand Dig Trench	$ 5.74	3.00%	98.00%	$0.17	3.00%	80.00%	$0.14	$ 6.00	3.00%	98.00%	$0.18	3.00%	80.00%	$0.14	$ 8.52	3.00%	98.00%	$0.25	3.00%	80.00%	$0.20		
Boring	$ 12.90	4.00%	98.00%	$0.51	4.00%	80.00%	$0.41	$ 13.26	4.00%	98.00%	$0.52	4.00%	80.00%	$0.42	$ 16.90	4.00%	98.00%	$0.66	4.00%	80.00%	$0.54		
Cut & Restore Asphalt	$ 9.27	8.00%	98.00%	$0.73	8.00%	80.00%	$0.59	$ 11.45	8.00%	98.00%	$0.90	8.00%	80.00%	$0.73	$ 13.28	8.00%	98.00%	$1.04	8.00%	80.00%	$0.85		
Cut & Restore Concrete	$ 10.13	7.00%	98.00%	$0.69	7.00%	80.00%	$0.57	$ 12.30	7.00%	98.00%	$0.84	7.00%	80.00%	$0.69	$ 13.97	7.00%	98.00%	$0.96	7.00%	80.00%	$0.78		
Cut & Restore Sod	$ 4.25	10.00%	98.00%	$0.42	10.00%	80.00%	$0.34	$ 5.09	10.00%	98.00%	$0.50	10.00%	80.00%	$0.41	$ 6.76	10.00%	98.00%	$0.66	10.00%	80.00%	$0.54		
Total Underground Cost per Foot		100.00%		$4.44	100.00%		$3.57		100.00%		$5.56	100.00%		$4.52		100.00%		$7.58	100.00%		$6.19		

	Buried Normal							Buried Soft Rock							Buried Hard Rock						
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution		
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Plow	$ 1.20	33.00%	100.00%	$ 0.40	21.00%	100.00%	$ 0.25	$ 1.22	5.00%	100.00%	$ 0.06	3.00%	100.00%	$ 0.04	$ 1.43	0.00%	100.00%	$ -	0.00%	100.00%	$ -
Rocky Plow	$ 1.47	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.51	13.00%	100.00%	$ 0.20	12.00%	100.00%	$ 0.18	$ 1.85	13.00%	100.00%	$ 0.24	13.00%	100.00%	$ 0.24
Trench & Backfill	$ 2.59	20.00%	98.00%	$ 0.51	30.00%	80.00%	$ 0.62	$ 2.69	5.00%	98.00%	$ 0.13	5.00%	80.00%	$ 0.11	$ 3.74	0.00%	98.00%	$ -	8.00%	80.00%	$ 0.24
Rocky Trench	$ 4.67	0.00%	98.00%	$ -	0.00%	80.00%	$ -	$ 4.83	25.00%	98.00%	$ 1.18	27.00%	80.00%	$ 1.04	$ 6.34	40.00%	98.00%	$ 2.49	30.00%	80.00%	$ 1.52
Backhoe Trench	$ 3.21	10.00%	98.00%	$ 0.31	12.00%	80.00%	$ 0.31	$ 3.38	15.00%	98.00%	$ 0.50	16.00%	80.00%	$ 0.43	$ 5.08	10.00%	98.00%	$ 0.50	12.00%	80.00%	$ 0.49
Hand Dig Trench	$ 5.74	3.00%	98.00%	$ 0.17	3.00%	80.00%	$ 0.14	$ 6.00	3.00%	98.00%	$ 0.18	3.00%	80.00%	$ 0.14	$ 8.52	3.00%	98.00%	$ 0.25	3.00%	80.00%	$ 0.20
Bore Cable	$ 12.90	4.00%	98.00%	$ 0.51	4.00%	80.00%	$ 0.41	$ 13.26	4.00%	98.00%	$ 0.52	4.00%	80.00%	$ 0.42	$ 16.90	4.00%	98.00%	$ 0.66	4.00%	80.00%	$ 0.54
Push Pipe & Pull Cable	$ 7.69	5.00%	98.00%	$ 0.38	5.00%	80.00%	$ 0.31	$ 7.98	5.00%	98.00%	$ 0.39	5.00%	80.00%	$ 0.32	$ 10.92	5.00%	98.00%	$ 0.54	5.00%	80.00%	$ 0.44
Cut & Restore Asphalt	$ 9.27	8.00%	98.00%	$ 0.73	8.00%	80.00%	$ 0.59	$ 11.45	8.00%	98.00%	$ 0.90	8.00%	80.00%	$ 0.73	$ 13.28	8.00%	98.00%	$ 1.04	8.00%	80.00%	$ 0.85
Cut & Restore Concrete	$ 10.13	7.00%	98.00%	$ 0.69	7.00%	80.00%	$ 0.57	$ 12.30	7.00%	98.00%	$ 0.84	7.00%	80.00%	$ 0.69	$ 13.97	7.00%	98.00%	$ 0.96	7.00%	80.00%	$ 0.78
Cut & Restore Sod	$ 4.25	10.00%	98.00%	$ 0.42	10.00%	80.00%	$ 0.34	$ 5.09	10.00%	98.00%	$ 0.50	10.00%	80.00%	$ 0.41	$ 6.76	10.00%	98.00%	$ 0.66	10.00%	80.00%	$ 0.54
Total Buried Cost per Foot		100.00%		$ 4.11	100.00%		$ 3.54		100.00%		$ 5.40	100.00%		$ 4.52		100.00%		$ 7.33	100.00%		$ 5.84

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock						
		Feeder			Distribution			Feeder				Distribution			Feeder				Distribution		
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.38	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38
Anchors and Guys	$ 68.00	$ 255.00	100.00%	53.83	$ 255.00	100.00%	53.83	$ 285.00	100.00%	58.83		$ 285.00	100.00%	58.83	$ 310.00	100.00%	63.00		$ 310.00	100.00%	63.00
Total Aerial Cost per Pole				$ 417.21			$ 417.21			$ 472.21				$ 472.21			$ 526.38				$ 526.38

	Density Group 500-2000																					
	Underground Normal							Underground Soft Rock							Underground Hard Rock							
Density Group 500-2000	*Install*	*Feeder*			*Distribution*			*Install*	*Feeder*			*Distribution*			*Install*	*Feeder*			*Distribution*			
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Trench & Backfill	$ 2.69	27.00%	95.00%	$0.69	40.00%	80.00%	$0.86	$ 2.81	9.00%	95.00%	$0.24	8.00%	80.00%	$0.18	$ 3.98	0.00%	95.00%	$0.00	5.00%	80.00%	$0.16
Rocky Trench	$ 4.83	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00	$ 4.99	28.00%	95.00%	$1.33	30.00%	80.00%	$1.20	$ 6.68	45.00%	95.00%	$2.86	32.00%	80.00%	$1.71
Backhoe Trench	$ 3.38	30.00%	95.00%	$0.96	7.00%	80.00%	$0.19	$ 3.57	20.00%	95.00%	$0.68	9.00%	80.00%	$0.26	$ 5.46	12.00%	95.00%	$0.62	10.00%	80.00%	$0.44
Hand Dig Trench	$ 6.00	6.00%	95.00%	$0.34	6.00%	80.00%	$0.29	$ 6.28	6.00%	95.00%	$0.36	6.00%	80.00%	$0.30	$ 9.08	6.00%	95.00%	$0.52	6.00%	80.00%	$0.44
Boring	$ 13.26	2.00%	95.00%	$0.25	2.00%	80.00%	$0.21	$ 13.66	2.00%	95.00%	$0.26	2.00%	80.00%	$0.22	$ 17.70	2.00%	95.00%	$0.34	2.00%	80.00%	$0.28
Cut & Restore Asphalt	$ 9.45	13.00%	95.00%	$1.17	13.00%	80.00%	$0.98	$ 11.66	13.00%	95.00%	$1.44	13.00%	80.00%	$1.21	$ 13.69	13.00%	95.00%	$1.69	13.00%	80.00%	$1.42
Cut & Restore Concrete	$ 10.30	12.00%	95.00%	$1.17	12.00%	80.00%	$0.99	$ 12.48	12.00%	95.00%	$1.42	12.00%	80.00%	$1.20	$ 14.35	12.00%	95.00%	$1.64	12.00%	80.00%	$1.38
Cut & Restore Sod	$ 4.41	10.00%	95.00%	$0.42	20.00%	80.00%	$0.71	$ 5.28	10.00%	95.00%	$0.50	20.00%	80.00%	$0.84	$ 7.14	10.00%	95.00%	$0.68	20.00%	80.00%	$1.14
Total Underground Cost per Foot		100.00%		$5.01	100.00%		$4.23		100.00%		$6.23	100.00%		$5.41		100.00%		$8.34	100.00%		$6.97

	Buried Normal							Buried Soft Rock							Buried Hard Rock							
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution			
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Plow	$ 1.22	15.00%	100.00%	$ 0.18	20.00%	100.00%	$ 0.24	$ 1.24	3.00%	100.00%	$ 0.04	2.00%	100.00%	$ 0.02	$ 1.48	0.00%	100.00%	$ -	0.00%	100.00%	$ -
Rocky Plow	$ 1.51	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.54	3.00%	100.00%	$ 0.05	2.00%	100.00%	$ 0.03	$ 1.93	3.00%	100.00%	$ 0.06	3.00%	100.00%	$ 0.06
Trench & Backfill	$ 2.69	26.00%	95.00%	$ 0.66	20.00%	80.00%	$ 0.43	$ 2.81	15.00%	95.00%	$ 0.40	5.00%	80.00%	$ 0.11	$ 3.98	0.00%	95.00%	$ -	0.00%	80.00%	$ -
Rocky Trench	$ 4.83	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 4.99	25.00%	95.00%	$ 1.19	25.00%	80.00%	$ 1.00	$ 6.68	35.00%	95.00%	$ 2.22	27.00%	80.00%	$ 1.44
Backhoe Trench	$ 3.38	11.00%	95.00%	$ 0.35	2.00%	80.00%	$ 0.05	$ 3.57	6.00%	95.00%	$ 0.20	8.00%	80.00%	$ 0.23	$ 5.46	14.00%	95.00%	$ 0.73	12.00%	80.00%	$ 0.52
Hand Dig Trench	$ 6.00	6.00%	95.00%	$ 0.34	6.00%	80.00%	$ 0.29	$ 6.28	6.00%	95.00%	$ 0.36	6.00%	80.00%	$ 0.30	$ 9.08	6.00%	95.00%	$ 0.52	6.00%	80.00%	$ 0.44
Bore Cable	$ 13.26	2.00%	95.00%	$ 0.25	2.00%	80.00%	$ 0.21	$ 13.66	2.00%	95.00%	$ 0.26	2.00%	80.00%	$ 0.22	$ 17.70	2.00%	95.00%	$ 0.34	2.00%	80.00%	$ 0.28
Push Pipe & Pull Cable	$ 7.98	5.00%	95.00%	$ 0.38	5.00%	80.00%	$ 0.32	$ 8.31	5.00%	95.00%	$ 0.39	5.00%	80.00%	$ 0.33	$ 11.57	5.00%	95.00%	$ 0.55	5.00%	80.00%	$ 0.46
Cut & Restore Asphalt	$ 9.45	13.00%	95.00%	$ 1.17	13.00%	80.00%	$ 0.98	$ 11.66	13.00%	95.00%	$ 1.44	13.00%	80.00%	$ 1.21	$ 13.69	13.00%	95.00%	$ 1.69	13.00%	80.00%	$ 1.42
Cut & Restore Concrete	$ 10.30	12.00%	95.00%	$ 1.17	12.00%	80.00%	$ 0.99	$ 12.48	12.00%	95.00%	$ 1.42	12.00%	80.00%	$ 1.20	$ 14.35	12.00%	95.00%	$ 1.64	12.00%	80.00%	$ 1.38
Cut & Restore Sod	$ 4.41	10.00%	95.00%	$ 0.42	20.00%	80.00%	$ 0.71	$ 5.28	10.00%	95.00%	$ 0.50	20.00%	80.00%	$ 0.84	$ 7.14	10.00%	95.00%	$ 0.68	20.00%	80.00%	$ 1.14
Total Buried Cost per Foot		100.00%		$ 4.93	100.00%		$ 4.23		100.00%		$ 6.25	100.00%		$ 5.50		100.00%		$ 8.41	100.00%		$ 7.15

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock							
	Feeder				Distribution			Feeder				Distribution			Feeder				Distribution			
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.38	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38	
Anchors and Guys	$ 68.00	$ 255.00	100.00%	48.45	$ 255.00	100.00%	48.45	$ 285.00	100.00%	52.95		$ 285.00	100.00%	52.95	$ 310.00	100.00%	56.70		$ 310.00	100.00%	56.70	
Total Aerial Cost per Pole				$ 411.83			$ 411.83			$ 466.33				$ 466.33			$ 520.08				$ 520.08	

	Density Group 2001-5000																					
	Underground Normal							Underground Soft Rock							Underground Hard Rock							
Density Group 2001-5000	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution			
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Trench & Backfill	$ 2.80	5.00%	95.00%	$0.13	5.00%	80.00%	$0.11	$ 2.93	2.00%	95.00%	$0.06	2.00%	80.00%	$0.05	$ 4.21	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00
Rocky Trench	$ 4.98	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00	$ 5.16	5.00%	95.00%	$0.25	5.00%	80.00%	$0.21	$ 7.01	15.00%	95.00%	$1.00	14.00%	80.00%	$0.79
Backhoe Trench	$ 3.55	20.00%	95.00%	$0.67	19.00%	80.00%	$0.54	$ 3.76	18.00%	95.00%	$0.64	17.00%	80.00%	$0.51	$ 5.84	10.00%	95.00%	$0.55	10.00%	80.00%	$0.47
Hand Dig Trench	$ 6.25	8.00%	95.00%	$0.48	8.00%	80.00%	$0.40	$ 6.56	8.00%	95.00%	$0.50	8.00%	80.00%	$0.42	$ 9.64	8.00%	95.00%	$0.73	8.00%	80.00%	$0.62
Boring	$ 13.62	15.00%	95.00%	$1.94	15.00%	80.00%	$1.63	$ 14.07	15.00%	95.00%	$2.00	15.00%	80.00%	$1.69	$ 18.51	15.00%	95.00%	$2.64	15.00%	80.00%	$2.22
Cut & Restore Asphalt	$ 9.64	25.00%	95.00%	$2.29	25.00%	80.00%	$1.93	$ 11.86	25.00%	95.00%	$2.82	25.00%	80.00%	$2.37	$ 14.10	25.00%	95.00%	$3.35	25.00%	80.00%	$2.82
Cut & Restore Concrete	$ 10.46	20.00%	95.00%	$1.99	20.00%	80.00%	$1.67	$ 12.67	20.00%	95.00%	$2.41	20.00%	80.00%	$2.03	$ 14.72	20.00%	95.00%	$2.80	20.00%	80.00%	$2.36
Cut & Restore Sod	$ 4.59	7.00%	95.00%	$0.31	8.00%	80.00%	$0.29	$ 5.47	7.00%	95.00%	$0.36	8.00%	80.00%	$0.35	$ 7.50	7.00%	95.00%	$0.50	8.00%	80.00%	$0.48
Total Underground Cost per Foot		100.00%		$7.81	100.00%		$6.58		100.00%		$9.04	100.00%		$7.62		100.00%		$11.57	100.00%		$9.75

	Buried Normal							Buried Soft Rock							Buried Hard Rock							
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution			
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Plow	$ 1.24	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.27	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.52	0.00%	100.00%	$ -	0.00%	100.00%	$ -
Rocky Plow	$ 1.54	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.58	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 2.00	0.00%	100.00%	$ -	0.00%	100.00%	$ -
Trench & Backfill	$ 2.80	5.00%	95.00%	$ 0.13	5.00%	80.00%	$ 0.11	$ 2.93	2.00%	95.00%	$ 0.06	2.00%	80.00%	$ 0.05	$ 4.21	0.00%	95.00%	$ -	0.00%	80.00%	$ -
Rocky Trench	$ 4.98	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 5.16	5.00%	95.00%	$ 0.25	5.00%	80.00%	$ 0.21	$ 7.01	15.00%	95.00%	$ 1.00	14.00%	80.00%	$ 0.79
Backhoe Trench	$ 3.55	20.00%	95.00%	$ 0.67	19.00%	80.00%	$ 0.54	$ 3.76	18.00%	95.00%	$ 0.64	17.00%	80.00%	$ 0.51	$ 5.84	10.00%	95.00%	$ 0.55	10.00%	80.00%	$ 0.47
Hand Dig Trench	$ 6.25	8.00%	95.00%	$ 0.48	8.00%	80.00%	$ 0.40	$ 6.56	8.00%	95.00%	$ 0.50	8.00%	80.00%	$ 0.42	$ 9.64	8.00%	95.00%	$ 0.73	8.00%	80.00%	$ 0.62
Bore Cable	$ 13.62	15.00%	95.00%	$ 1.94	15.00%	80.00%	$ 1.63	$ 14.07	15.00%	95.00%	$ 2.00	15.00%	80.00%	$ 1.69	$ 18.51	15.00%	95.00%	$ 2.64	15.00%	80.00%	$ 2.22
Push Pipe & Pull Cable	$ 8.27	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 8.63	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 12.23	0.00%	95.00%	$ -	0.00%	80.00%	$ -
Cut & Restore Asphalt	$ 9.64	25.00%	95.00%	$ 2.29	25.00%	80.00%	$ 1.93	$ 11.86	25.00%	95.00%	$ 2.82	25.00%	80.00%	$ 2.37	$ 14.10	25.00%	95.00%	$ 3.35	25.00%	80.00%	$ 2.82
Cut & Restore Concrete	$ 10.46	20.00%	95.00%	$ 1.99	20.00%	80.00%	$ 1.67	$ 12.67	20.00%	95.00%	$ 2.41	20.00%	80.00%	$ 2.03	$ 14.72	20.00%	95.00%	$ 2.80	20.00%	80.00%	$ 2.36
Cut & Restore Sod	$ 4.59	7.00%	95.00%	$ 0.31	8.00%	80.00%	$ 0.29	$ 5.47	7.00%	95.00%	$ 0.36	8.00%	80.00%	$ 0.35	$ 7.50	7.00%	95.00%	$ 0.50	8.00%	80.00%	$ 0.48
Total Buried Cost per Foot		100.00%		$ 7.81	100.00%		$ 6.58		100.00%		$ 9.04	100.00%		$ 7.62		100.00%		$ 11.57	100.00%		$ 9.75

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock						
	Feeder				Distribution			Feeder				Distribution			Feeder				Distribution		
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.38	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38
Anchors and Guys	$ 68.00	$ 255.00	100.00%	96.90	$ 255.00	100.00%	96.90	$ 285.00	100.00%	105.90		$ 285.00	100.00%	105.90	$ 310.00	100.00%	113.40		$ 310.00	100.00%	113.40
Total Aerial Cost per Pole				$ 460.28			$ 460.28			$ 519.28				$ 519.28			$ 576.78				$ 576.78

	Density Group >5001																						
	Underground Normal							Underground Soft Rock							Underground Hard Rock								
Density Group >5001	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Trench & Backfill	$ 2.86	3.00%	95.00%	$0.08	3.00%	80.00%	$0.07	$ 2.99	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00	$ 4.33	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00		
Rocky Trench	$ 5.06	0.00%	95.00%	$0.00	0.00%	80.00%	$0.00	$ 5.25	6.00%	95.00%	$0.30	6.00%	80.00%	$0.25	$ 7.18	10.00%	95.00%	$0.68	10.00%	80.00%	$0.57		
Backhoe Trench	$ 3.64	15.00%	95.00%	$0.52	15.00%	80.00%	$0.44	$ 3.85	12.00%	95.00%	$0.44	12.00%	80.00%	$0.37	$ 6.03	8.00%	95.00%	$0.46	8.00%	80.00%	$0.39		
Hand Dig Trench	$ 6.39	8.00%	95.00%	$0.49	8.00%	80.00%	$0.41	$ 6.70	8.00%	95.00%	$0.51	8.00%	80.00%	$0.43	$ 9.93	8.00%	95.00%	$0.75	8.00%	80.00%	$0.64		
Boring	$ 13.82	10.00%	95.00%	$1.31	10.00%	80.00%	$1.11	$ 14.27	10.00%	95.00%	$1.36	10.00%	80.00%	$1.14	$ 18.92	10.00%	95.00%	$1.80	10.00%	80.00%	$1.51		
Cut & Restore Asphalt	$ 9.74	33.00%	95.00%	$3.05	33.00%	80.00%	$2.57	$ 11.96	33.00%	95.00%	$3.75	33.00%	80.00%	$3.16	$ 14.30	33.00%	95.00%	$4.48	33.00%	80.00%	$3.78		
Cut & Restore Concrete	$ 10.56	28.00%	95.00%	$2.81	28.00%	80.00%	$2.37	$ 12.76	28.00%	95.00%	$3.39	28.00%	80.00%	$2.86	$ 14.91	28.00%	95.00%	$3.97	28.00%	80.00%	$3.34		
Cut & Restore Sod	$ 4.68	3.00%	95.00%	$0.13	3.00%	80.00%	$0.11	$ 5.57	3.00%	95.00%	$0.16	3.00%	80.00%	$0.13	$ 7.70	3.00%	95.00%	$0.22	3.00%	80.00%	$0.18		
Total Underground Cost per Foot		100.00%		$8.39	100.00%		$7.07		100.00%		$9.91	100.00%		$8.34		100.00%		$12.36	100.00%		$10.41		

	Buried Normal							Buried Soft Rock							Buried Hard Rock								
	Install	Feeder			Distribution			Install	Feeder			Distribution			Install	Feeder			Distribution				
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount	Cost	% Assigned Telephone	% of Sharing	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount		
Plow	$ 1.25	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.28	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.55	0.00%	100.00%	$ -	0.00%	100.00%	$ -		
Rocky Plow	$ 1.56	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 1.60	0.00%	100.00%	$ -	0.00%	100.00%	$ -	$ 2.04	0.00%	100.00%	$ -	0.00%	100.00%	$ -		
Trench & Backfill	$ 2.86	3.00%	95.00%	$ 0.08	3.00%	80.00%	$ 0.07	$ 2.99	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 4.33	0.00%	95.00%	$ -	0.00%	80.00%	$ -		
Rocky Trench	$ 5.06	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 5.25	6.00%	95.00%	$ 0.30	6.00%	80.00%	$ 0.25	$ 7.18	10.00%	95.00%	$ 0.68	10.00%	80.00%	$ 0.57		
Backhoe Trench	$ 3.64	15.00%	95.00%	$ 0.52	15.00%	80.00%	$ 0.44	$ 3.85	12.00%	95.00%	$ 0.44	12.00%	80.00%	$ 0.37	$ 6.03	8.00%	95.00%	$ 0.46	8.00%	80.00%	$ 0.39		
Hand Dig Trench	$ 6.39	8.00%	95.00%	$ 0.49	8.00%	80.00%	$ 0.41	$ 6.70	8.00%	95.00%	$ 0.51	8.00%	80.00%	$ 0.43	$ 9.93	8.00%	95.00%	$ 0.75	8.00%	80.00%	$ 0.64		
Bore Cable	$ 13.82	10.00%	95.00%	$ 1.31	10.00%	80.00%	$ 1.11	$ 14.27	10.00%	95.00%	$ 1.36	10.00%	80.00%	$ 1.14	$ 18.92	10.00%	95.00%	$ 1.80	10.00%	80.00%	$ 1.51		
Push Pipe & Pull Cable	$ 8.44	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 8.80	0.00%	95.00%	$ -	0.00%	80.00%	$ -	$ 12.55	0.00%	95.00%	$ -	0.00%	80.00%	$ -		
Cut & Restore Asphalt	$ 9.74	33.00%	95.00%	$ 3.05	33.00%	80.00%	$ 2.57	$ 11.96	33.00%	95.00%	$ 3.75	33.00%	80.00%	$ 3.16	$ 14.30	33.00%	95.00%	$ 4.48	33.00%	80.00%	$ 3.78		
Cut & Restore Concrete	$ 10.56	28.00%	95.00%	$ 2.81	28.00%	80.00%	$ 2.37	$ 12.76	28.00%	95.00%	$ 3.39	28.00%	80.00%	$ 2.86	$ 14.91	28.00%	95.00%	$ 3.97	28.00%	80.00%	$ 3.34		
Cut & Restore Sod	$ 4.68	3.00%	95.00%	$ 0.13	3.00%	80.00%	$ 0.11	$ 5.57	3.00%	95.00%	$ 0.16	3.00%	80.00%	$ 0.13	$ 7.70	3.00%	95.00%	$ 0.22	3.00%	80.00%	$ 0.18		
Total Buried Cost per Foot		100.00%		$ 8.39	100.00%		$ 7.07		100.00%		$ 9.91	100.00%		$ 8.34		100.00%		$ 12.36	100.00%		$ 10.41		

	Aerial Normal							Aerial Soft Rock							Aerial Hard Rock								
	Feeder				Distribution			Feeder				Distribution			Feeder				Distribution				
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount		Installation Cost per Unit	% of Sharing	Weighted Amount		
Poles	$ 368.17	$ 358.58	50.00%	363.38	$ 358.58	50.00%	363.38	$ 458.58	50.00%	413.38		$ 458.58	50.00%	413.38	$ 558.58	50.00%	463.38		$ 558.58	50.00%	463.38		
Anchors and Guys	$ 68.00	$ 255.00	100.00%	96.90	$ 255.00	100.00%	96.90	$ 285.00	100.00%	105.90		$ 285.00	100.00%	105.90	$ 310.00	100.00%	113.40		$ 310.00	100.00%	113.40		
Total Aerial Cost per Pole				$ 460.28			$ 460.28			$ 519.28				$ 519.28			$ 576.78				$ 576.78		

BCPM Capital Cost & Expense Module

Aggregate Support Levels

Aggregate Support Level at: $	20.00
Aggregate Support Level at: $	30.00
Aggregate Support Level at: $	40.00
Aggregate Support Level at: $	50.00
Aggregate Support Level at: $	60.00
Aggregate Support Level at: $	70.00
Aggregate Support Level at: $	80.00

Support and Expense Factors for Tier 1 Companies

Common Loadings

CommonLoad	0.00%	Common Loading (enter as Decimal)
GrossRecieptsTax	3.90%	Gross Reciepts Tax

1995 ARMIS 43-03 (Total Tier 1)

Support Ratio Table

Support Accounts	Support Accounts		
	Small	Medium	Large
Motor Vehicle	0.739%	0.739%	0.739%
Special Purpose Vehicles	0.001%	0.001%	0.001%
Garage Work	0.032%	0.032%	0.032%
Other Work	0.627%	0.627%	0.627%
Furniture	0.233%	0.233%	0.233%
Office Support	0.701%	0.701%	0.701%
General Purpose Computers	2.965%	2.965%	2.965%
Total Support Ratio	5.298%	5.298%	5.298%

This table is used to develop the support assets associated with general support facilities. Each ratio is calculated as the amount of investment in the specific support asset account divided by the total plant less support investment. It is then adjusted to incorporate the relationship of BCPM Operating Expenses to ARMIS Operating Expense.

BCPM Capital Cost & Expense Module

Per Line Monthly Operating Expenses for Small, Medium and Large Companies

Cost Element	USOAR Account	Residential			Business		
		Small	Medium	Large	Small	Medium	Large
Network Support	6110	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15
General Support	6120	$ 1.20	$ 1.20	$ 1.20	$ 1.20	$ 1.20	$ 1.20
COE Switching	6210	$ 0.34	$ 0.34	$ 0.34	$ 0.34	$ 0.34	$ 0.34
Operator Systems	6220	$ 0.01	$ 0.01	$ 0.01	$ 0.01	$ 0.01	$ 0.01
COE Transmission	6230	$ 0.23	$ 0.23	$ 0.23	$ 0.23	$ 0.23	$ 0.23
Information Orig/Term	6310	$ 0.07	$ 0.07	$ 0.07	$ 0.07	$ 0.07	$ 0.07
Cable and Wire Facilities	6410	$ 2.76	$ 2.76	$ 2.76	$ 2.76	$ 2.76	$ 2.76
Other Property Plant	6510	$ 0.03	$ 0.03	$ 0.03	$ 0.03	$ 0.03	$ 0.03
Network Operations	6530	$ 1.33	$ 1.33	$ 1.33	$ 1.33	$ 1.33	$ 1.33
Access	6540	$ -	$ -	$ -	$ -	$ -	$ -
Marketing	6610	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35
Services	6620	$ 2.42	$ 2.42	$ 2.42	$ 2.42	$ 2.42	$ 2.42
Executive and Planning	6710	$ 0.14	$ 0.14	$ 0.14	$ 0.14	$ 0.14	$ 0.14
General and Administrative	6720	$ 2.15	$ 2.15	$ 2.15	$ 2.15	$ 2.15	$ 2.15
Uncollectibles	6790	$ 0.17	$ 0.17	$ 0.17	$ 0.17	$ 0.17	$ 0.17
Total Expense		$ 11.34	11.34	11.34	11.34	11.34	11.34

BCPM Capital Cost & Expense Module

Single Business Line Table

SingleBusLines	Armis
State	Amount
Alabama	0.1383
Alaska	0.2833
Arizona	0.0546
Arkansas	0.1663
California	0.5358
Colorado	0.0662
Connecticut	0.0898
Delaware	0.0734
District of Columbia	0.0101
Florida	0.1622
Georgia	0.0768
Hawaii	0.5726
Idaho	0.1541
Illinois	0.139
Indiana	0.1558
Iowa	0.1579
Kansas	0.0763
Kentucky	0.2227
Louisiana	0.0938
Maine	0.6274
Maryland	0.0547
Massachusetts	0.6106
Michigan	0.1638
Minnesota	0.0512
Mississippi	0.1484
Missouri	0.1374
Montana	0.1272
Nebraska	0.1757
Nevada	0.5024
New Hampshire	0.6936
New Jersey	0.0622
New Mexico	0.1235
New York	0.5678
North Carolina	0.1839
North Dakota	0.1013
Ohio	0.1627
Oklahoma	0.1268
Oregon	0.1639
Pennsylvania	0.1048
Rhode Island	0.6603
South Carolina	0.1554
South Dakota	0.1049
Tennessee	0.1031
Texas	0.1187
Utah	0.0624
Vermont	0.5668
Virginia	0.1077
Washington	0.1501
West Virginia	0.1188
Wisconsin	0.1226
Wyoming	0.0687

BCPM Capital Cost & Expense Module

Account Capital Cost Inputs

Account	Economic Life (years)	Tax Life (years)	Future Net Salvage (percent)	Survival Curve	Gompertz c	Gompertz G	Gompertz S
Land	0	0	0%		0.00000000	0.00000000	0.00000000
Motor Vehicle	8	4	11%		1.36885980	-0.01372330	0.00357234
Special Purpose Vehicles	10	4	22%		1.39000000	-0.03578191	0.02459161
Garage Work	12	2	3%		1.02766470	-5.71031270	0.14552408
Other Work	14	2	1%		1.02766470	-5.71031270	0.14552408
Building	42.5	7	3%		1.18428730	-0.10144970	0.01557655
Furniture	16	2	3%		1.18428730	-0.10144970	0.01557655
Office Support	11	2	2%		1.02010290	-8.97443950	0.16316108
General Purpose Computers	5.5	2	3%		1.02766470	-5.71031270	0.14552408
Switching	10	2	2%		1.71629560	-0.00114623	0.00038173
Circuit/DLC	8.5	2	-1%		1.36885980	-0.01372330	0.00357234
Pole	30	5	-89%		1.10249400	-0.33410041	0.02401188
Aerial Copper	12.5	5	-18%		1.71629560	-0.00114623	0.00038173
Aerial Fiber	19	5	-22%		1.36885980	-0.01372330	0.00357234
Underground Copper	11.5	5	-8%		1.71629560	-0.00114623	0.00038173
Underground Fiber	19	5	-17%		1.36885980	-0.01372330	0.00357234
Buried Copper	14	5	-6%		1.71629560	-0.00114623	0.00038173
Buried Fiber	19	5	-12%		1.36885980	-0.01372330	0.00357234
Conduit	50	5	-5%		1.36885980	-0.01372330	0.00357234

BCPM Capital Cost & Expense Module

Annual Capital Cost Inputs

Capital Cost Inputs

Financial Data

Return on Equity	13.1%
Debt Rate	7.8%
Debt Ratio	32.8%
Discount Rate	7.8%
Return on Capital	11.4%

Tax Data

Federal Tax Rate	35.0%
State Tax Rate	5.3%
Gross Receipts Tax	3.9%
Ad Valorem, Insurance, etc.	0.0%
Other Tax Rate	0.7%

Depreciation Data

Tax

Method	1
Convention	2
Flow Thru Normalization	1

Book

Use Survival Curves	2
Convention	2
ELG / VG	1
WL / RL	1

APPENDIX C

BCPM ENHANCEMENTS

- Loop investment costs based on an average nationwide LEC's installed cost. Investment costs of five companies are represented.
- Default costs include current material discounts. Therefore 0% discounts are applied in user input defaults for DLC, copper cable, fiber cable, and switch.
- Labor cost added to cost of material to provide installed cost instead of a factor adjustment.
- Manhole, conduit, poles, anchor and guys, drop terminals and feeder distribution interfaces are specific inputs and not factors.
- Structure tables identify cost of trench by density, percent for different methods of trenching, and separates feeder from distribution for differing construction methods.

Development Of Default Values

To develop a nation wide average of material, placing, engineering, and splicing cost, a data request was sent to participating members of the Best of Breed (BOB) model development team (US West, Bell South, Nynex, GTEC, Bell Atlantic, Ameritech, Sprint, Pacific Bell, South Western Bell, and PTI). The data requested was company forward looking cost for loop material and labor. The material cost provided is based on company specific cost that include price discounts, therefore, no additional discounts are applied to material cost in the user input tables. The cost information was averaged to develop a national average for default values in the BCPM. Due to some material cost being slightly lower in cost than the next size down (this is due to volume pricing), smoothing was perform to price material cost in a linear arrangement. The following are examples of the user input tables and the default values found in the BCPM. In addition, an explanation of the methodology for developing default values and guidelines for user inputs.

Cable Investment:

Copper Feeder Cost Table

FeederCableCost	COPPER FEEDER COST		
FeederCableSize	Cost Underground	Cost Buried	Cost Aerial
4200	$35.60	$33.16	$36.50
3600	$33.30	$30.20	$33.33
3000	$28.21	$29.19	$32.68
2400	$21.50	$26.79	$25.58
2100	$19.49	$22.60	$20.20
1800	$17.38	$20.46	$18.60
1200	$11.95	$13.20	$12.10
900	$9.98	$10.70	$9.18
600	$7.52	$7.27	$6.53
400	$6.55	$5.67	$4.90
300	$4.42	$4.38	$4.20
200	$3.60	$3.49	$3.16
100	$2.65	$2.52	$2.31
50	$1.19	$2.16	$1.91
25	$1.00	$1.93	$1.82

Copper Distribution Cost Table

DistrCableCost	COPPER DISTRIBUTION COST		
DistrCableSize	Cost Underground	Cost Buried	Cost Aerial
3600	$33.30	$30.20	$33.33
3000	$28.21	$29.19	$32.68
2400	$23.02	$25.79	$25.58
2100	$19.50	$22.56	$20.20
1800	$17.55	$20.46	$18.60
1200	$12.07	$13.20	$12.10
900	$9.40	$10.70	$9.18
600	$7.52	$7.27	$6.53
400	$6.55	$5.67	$4.90
300	$4.42	$4.38	$4.20
200	$3.60	$3.49	$3.16
100	$2.65	$2.52	$2.31
50	$2.42	$2.16	$1.91
25	$1.51	$1.93	$1.82
18	$1.32	$1.75	$1.51
12	$1.16	$1.28	$1.20

Fiber Cable Cost Table

FiberCableCost	FIBER CABLE COST		
FiberCableSize	Cost Underground	Cost Buried	Cost Aerial
288	$11.50	$12.79	$12.02
144	$10.30	$9.96	$9.85
96	$7.40	$7.43	$7.19
72	$6.25	$6.00	$6.75
60	$5.50	$5.17	$6.02
48	$4.75	$4.95	$5.27
36	$4.15	$4.01	$4.67
24	$3.75	$3.93	$3.45
18	$3.48	$3.25	$3.26
12	$3.09	$2.75	$3.04

Average installed cost of copper and fiber cables are developed by company forward looking cost using today's discounted material cost. Copper cables are 26 gauge in both feeder and distribution. A 12000 foot total loop length is set as the default for a breakpoint of copper to fiber technology. This means that copper will be the transport medium from the wire center to the subscriber when the total loop length is 12000 feet or less. Loop lengths beyond 12000 feet, fiber will be deployed in the feeder along with digital loop carrier. To extend the breakpoint, a user must assume a 26/24 gauge feeder and adjust cable cost accordingly. In addition, cost of load coils and other transmission requirements must be considered when extending copper loop lengths. Distribution lengths are also set at 12000 feet as a default so as not to exceed DLC powering limitations.

The type of underground copper cable used is DuctPic to avoid pressurization expense. Buried copper cable is filled armored to minimize cable damage due to water, dig-ups, and animals. Aerial cable is single sheath (BKTA/BKMA) when available, otherwise DuctPic cables are used. The default values are an average of the installed costs of the participating LECs data responses. Installed costs include taxes and supply expense, engineering, placing, and splicing. The installed cost of a messenger is included in the cost of aerial cable. For the larger size cables (3000 pair or larger) 16m strand is assumed. Buried and aerial fiber cables includes cost for extruded outer duct (cables placed in flexible plastic duct before placement) for additional protection. This method of placing the fiber cable in the duct before placing greatly facilitates the placing operation in aerial and buried plant. Some of the costs are smoothed to provide a linear cost relationship to cable sizes. This is necessary because some cable sizes are purchased on volume and are less costly than cable sizes smaller in size.

Drop Terminal Cost Table

Drop Terminal Cost Installed			
Size	Buried	Aerial	Building/Underground
0	$133.46	$70.44	N/A
6	$157.05	$95.98	N/A
11	$440.87	$131.81	$340.15
26	$451.00	$216.00	$509.43
51	N/A	N/A	$811.60
101	N/A	N/A	$1,293.09
201	N/A	N/A	$1,965.71
301	N/A	N/A	$2,324.03
401	N/A	N/A	$2,839.49
501	N/A	N/A	$3,756.64
601	N/A	N/A	$3,870.42
701	N/A	N/A	$4,385.89
801	N/A	N/A	$4,901.36

Sizes of drop terminals range from 0-25 which equals a 25 pair terminal, to 801-900 which equals a 900 pair terminal. Buried drop terminal costs are the installed cost of buried encapsulated BMT type terminals for size 11 - 50 and 5 pair terminal blocks including pedestals, for 0 - 10. Pedestal cost are included where appropriate therefore no separate pedestal cost is included in inputs. Aerial terminal cost are installed cost for 25 pair strand mounted terminals (105A-25 type) and 50 pair pole mounted terminals (53A3-50 type) for sizes 11-50 and 5 pair terminal blocks installed in ready access closures for sizes 0-10. Additional cost associated with aerial and buried terminals are drop and network interface devises (NID) which are found in other tables Building and underground terminals are protected terminals with connecting blocks mounted on backboards in closets or utility rooms in apartments or businesses. These terminals do not require a NID or drop as inside wiring (IW) is connected directly to the connecting blocks. Both the aerial and buried terminals are linked to single family living units while the building and underground terminals are linked to multi-family and business lines.

Feeder Distribution Interface Cost Table

Fdi Cost per Line	
Size	Total Cost
0	$407.00
26	$1,885.00
51	$2,120.00
101	$2,355.00
151	$2,590.00
201	$5,509.49
301	$6,848.35
451	$7,586.00
601	$8,717.30
901	$11,489.93
1351	**$11,712.81**
1801	$17,222.30
2101	$18,561.16
2251	$19,298.81
2401	$20,430.11
2701	$23,202.74
3150	$23,425.62

The FDI is the interface between copper feeder cables and copper distribution cables. FDI's are standard cross-connect boxes available today. The smaller sizes 0 to 200 (up to 200 in and 200 out) are pedestal mounted B-Boxes and sizes from 201 to 1800 in and 201 to 1800 out (3600) are standard serving area interface cabinets also available today. Size is based on the total of the distribution cable sizes leaving the FDI. For example, if the total of the distribution cable sizes is 1800 pair than a 3600 pair FDI is placed at $11,712.81. The largest interface assumed is a 3600 pair (1800 in and 1800 out). Beyond that size then two separate interfaces are assumed and costs have been adjusted to account for multiple placements at same location.

Digital Loop Carrier (DLC) Investments

Digital Carrier Cost Table

Cost for DIGITAL LOOP CARRIER equipment		
Dlc Fiber Size	Fixed Cost	Per Line Cost
0	$38,867.00	$92.81
49	$53,577.00	$92.81
121	$84,976.00	$92.81
241	$92,147.00	$92.81
673	$125,120.85	$92.81
1335	$217,267.85	$92.81

Sizes of DLC systems in the BCPM range from 48 to 2016 channels. This will provide the flexibility and the economics of deploying sizes based on density and growth. DLC systems are fiber-fed integrated systems and eliminate many of the costs associated with standard or "universal" systems. Fixed cost assumes all installed first costs associated with the placement of DLC systems at both the remote terminal and the central office. The fixed cost includes common equipment, site preparation, right-of-way cost, remote cabinets, commercial power, protection, central office fiber optic terminal (FOT/COT) etc. The Per Line Cost or variable cost is the installed cost of line cards on a per line basis (installed cost of line cards divided by 4 services per line card at the Remote Terminal plus the installed cost of the central office line card (DS1 card) divided by 24 services per card. The default values are average costs reported by the participating LECs then smoothed by removing outlyers (very low and very high cost).

Distribution Plant Mix Table

Distribution UG/Aerial Mix Table			
Density	UnderGround %	Buried %	Aerial %
0	10.00%	80.00%	10.00%
11	15.00%	77.00%	8.00%
51	20.00%	74.00%	6.00%
151	25.00%	70.00%	5.00%
501	30.00%	67.00%	3.00%
2001	60.00%	40.00%	0.00%
5001	95.00%	5.00%	0.00%

Copper Plant Mix Table

Copper Feeder UG/Aerial Mix Table			
Density	UnderGround %	Buried %	Aerial%
0	10.00%	80.00%	10.00%
11	15.00%	77.00%	8.00%
51	20.00%	74.00%	6.00%
151	25.00%	70.00%	5.00%
501	75.00%	22.00%	3.00%
2001	85.00%	15.00%	0.00%
5001	95.00%	5.00%	0.00%

Fiber Plant Mix Table

Fiber Feeder UG/Aerial Mix Table			
Density	UnderGround %	Buried %	Aerial%
0	10.00%	80.00%	10.00%
11	15.00%	77.00%	8.00%
51	20.00%	74.00%	6.00%
151	25.00%	70.00%	5.00%
501	75.00%	22.00%	3.00%
2001	85.00%	15.00%	0.00%
5001	95.00%	5.00%	0.00%

The plant type mix for distribution copper, feeder copper, and fiber feeder is based on a forward look as to the type of plant expected to be placed in each density zone. It is expected that less aerial plant will be placed in a forward look due to high first costs, high maintenance costs, and local ordinances requiring out of sight facilities.

Density Fill Table

Density	Feeder	Distribution
0	75.00%	40.00%
11	80.00%	45.00%
51	80.00%	55.00%
151	85.00%	65.00%
501	85.00%	75.00%
2001	85.00%	80.00%
5001	85.00%	80.00%

The fill factors reflect an optimal fill that would be expected for a cable serving a known number of subscribers with little, if any, growth. There is some excess capacity for administration and breakage. The less dense areas reflect a somewhat lower fill due to travel and the higher expected cost of re-enforcement as the predominant type of plant is buried. Distribution fills are lower than feeder due to the amount of buried plant and the risk of re-enforcement where established landscaping is the rule.

DensityHhTable

Density	% Single Family	Household per Multi Unit Dwelling	% Multi Family Dwellings
0	96.00%	2.80	4.00%
11	93.90%	3.20	6.10%
51	89.00%	4.50	11.00%
151	83.40%	5.20	16.60%
501	74.20%	5.70	25.80%
2001	59.40%	5.90	40.60%
5001	22.00%	7.10	78.00%

This table determines the mix of single family and multi-family dwelling units by density group. The Table also contains the average number of units in each multi-family dwelling unit by density group. The default values were derived from the census bureau national survey of housing characteristics. This table is used to determine an accurate size and mix of drop, nid, and terminal investments.

Structure Allocation Table

Cable Size	Cable Structure %	Fiber Structure %
0	50.00%	50.00%
200	50.00%	50.00%
900	50.00%	50.00%
2400	50.00%	50.00%
4200	50.00%	50.00%
>4200	75.00%	25.00%

This table determines the allocation of structure costs (trench, poles) between copper and fiber facilities when both are present.

Voice Grade Ratio Table

# switched lines in CBG	% switched to VG	% switched to DS1	% special to VG	% special to DS1
0	100.00%	0.00%	100.00%	0.00%
2,016	65.00%	35.00%	50.00%	50.00%
10,000	50.00%	50.00%	30.00%	70.00%
20,000	75.00%	25.00%	10.00%	90.00%

This table is used to determine the percent of switched voice grade lines that are terminated in a CBG at a digital PBX via DS1 facilities. This table also is used to

determine the percent of private line voice grade channels that are terminated at the DS1 level at the customer premise.

Structure Costs

	Density Group 0-10						
	Underground Normal						
Density Group 0-10	**Install**	**Feeder**			**Distribution**		
Conduit Installation	Cost per Unit	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Trench & Backfill	$ 2.27	75.00%	100.00%	$1.70	87.00%	100.00%	$1.97
Rocky Trench	$ 4.22	0.00%	100.00%	$0.00	0.00%	100.00%	$0.00
Backhoe Trench	$ 2.70	17.00%	100.00%	$0.46	5.00%	100.00%	$0.14
Hand Dig Trench	$ 4.99	2.00%	100.00%	$0.10	2.00%	100.00%	$0.10
Boring	$ 11.80	2.00%	100.00%	$0.24	2.00%	100.00%	$0.24
Cut & Restore Asphalt	$ 8.72	1.00%	100.00%	$0.09	1.00%	100.00%	$0.09
Cut & Restore Concrete	$ 9.63	1.00%	100.00%	$0.10	1.00%	100.00%	$0.10
Cut & Restore Sod	$ 3.75	2.00%	100.00%	$0.08	2.00%	100.00%	$0.08
Total Underground Cost per Foot		100.00%		$2.76	100.00%		$2.70

	Buried Normal						
	Install	**Feeder**			**Distribution**		
Buried Cable Installation	Cost	% of Activity	% Assigned Telephone	Weighted Amount	% of Activity	% Assigned Telephone	Weighted Amount
Plow	$ 1.14	96.00%	100.00%	$ 1.09	86.00%	100.00%	$ 0.98
Rocky Plow	$ 1.37	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Trench & Backfill	$ 2.27	0.00%	100.00%	$ 0.00	10.00%	100.00%	$ 0.23
Rocky Trench	$ 4.22	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Backhoe Trench	$ 2.70	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Hand Dig Trench	$ 4.99	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Bore Cable	$ 11.80	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Push Pipe & Pull Cable	$ 6.80	0.00%	100.00%	$ 0.00	0.00%	100.00%	$ 0.00
Cut & Restore Asphalt	$ 8.72	1.00%	100.00%	$ 0.09	1.00%	100.00%	$ 0.09
Cut & Restore Concrete	$ 9.63	1.00%	100.00%	$ 0.10	1.00%	100.00%	$ 0.10
Cut & Restore Sod	$ 3.75	2.00%	100.00%	$ 0.08	2.00%	100.00%	$ 0.08
Total Buried Cost per Foot		100.00%		$ 1.35	100.00%		$ 1.47

		Aerial Normal					
		Feeder			Distribution		
Aerial Cable Installation	Cost	Installation Cost per Unit	% of Sharing	Weighted Amount	Installation Cost per Unit	% of Sharing	Weighted Amount
Poles	$ 68.17	$ 358.58	50.00%	$ 363.38	$ 358.58	50.00%	$ 363.38
Anchors and Guys	$ 68.00	$ 255.00	100.00%	$ 53.83	$ 255.00	100.00%	$ 53.83
Total Aerial Cost per Pole				$ 417.21			$ 417.21

Structure type and costs vary by type of facilities (aerial, buried, or underground), density, and soil conditions (Normal, Soft Rock, and Hard Rock). Trench cost for both conduit and buried cable is averaged from the forward looking cost data received from data requests. LECs provided data for the cost of different types of trenching done in each of the density zones and for the different types of soil conditions. This information was weighted and averaged for the trenching default cost in the BCPM. Sharing of trench is assumed in both feeder and distribution but the amount of sharing differs by density and feeder/distribution. It would be extremely rare that LECs would share trench in feeder conduit system or in rural areas where other service providers choose not to serve. The poles placed in the BCPM are 45' class 5 poles, purchased and placed by the telephone company. Sharing is considered with poles but not anchors and guys as they are placed per messenger. Anchors and guys are assumed to occur every 1000 feet so their costs are calculated on a per foot basis then added to the cost of poles.

Conduit Manhole Table

Duct capacity in manhole	Unit	Per Unit Material Cost	Installation Cost Per Unit		
			Normal	Soft Rock	Hard Rock
0	Hand Hole	$ 944.00	$ 400.00	$ 600.00	$ 800.00
3	4X Manhole	$ 2,138.25	$ 1,645.00	$ 2,045.00	$ 2,445.00
5	9X Manhole	$ 3,209.00	$ 2,431.00	$ 2,831.00	$ 3,231.00
99	9X Adder	$ 2,800.00	$ 500.00	$ 700.00	$ 900.00
n/a	Conduit per duct foot	$0.83	NA	NA	NA

Conduit Manhole Table (Continued)

% Assigned Telephone	Cost of installed facility assigned telephone		
	Normal	Soft Rock	Hard Rock
100%	$ 1,344.00	$ 1,544.00	$ 1,744.00
100%	$ 3,783.25	$ 4,183.25	$ 4,583.25
100%	$ 5,640.00	$ 6,040.00	$ 6,440.00
100%	$ 3,300.00	$ 3,500.00	$ 3,700.00
100.00%	$ 0.83	NA	NA

Sizing of conduit and manholes are based on the required amount of facilities required for telephony. No additional capacity has been added for sharing. For example, if a placement of 3 copper cables are required then 3 ducts are placed for the cables and one duct is placed for maintenance. In this case, a pre-cast manhole (PTS-65) is placed with 4 ducts. Manhole costs and duct cost per foot was averaged from the data provided by participating LECs.

Spacing Table

In Feet				
Density	Manhole Spacing	Pole Spacing	Guy Spacing	Relative Pole Units
0	725	250	1500	6.00
11	725	250	1500	6.00
51	725	250	1500	6.00
151	725	250	1500	6.00
501	550	150	1000	6.67
2001	550	150	500	3.33
5001	550	150	500	3.33

Manhole and pole spacing defaults are established by averaging the spacing data provided by the LECs. Denser areas (above 501 households per square mile) require shorter spacing due to larger cables and demand. Larger cables, due to their weight, will sag more in midspan between poles and increase pulling tension for pulls between manholes.

Miscellaneous Inputs

Cable & Wire Inputs		**Description**
NormalUGDepth	24.00	Normal Placement Depth in inches for Buried/Underground Copper Cable
NormalFiberDepth	36.00	Normal Placement Depth in inches for Buried/Underground Fiber
MaxFiberSize	288	Maximum Fiber Cable Size
MaxFeederSize	4,200	Maximum Copper Feeder Cable Size
Max DistSize	3,600	Maximum Copper Distribution Cable Size
CprMaxDistr	12,000	Maximum length of copper cable in the CBG distribution area
	0.00%	Fiber Cable Discount %
	0.00%	Copper Cable Discount %
DropCostPerFoot	$0.77	Drop Cost per Foot Material & Installation
PedestalCost	$0.00	Cost of Pedestal included in Drop Terminal Cost

NidCost	$30.73	Unit Cost per Network Interface Device Including Installation
	12,000	Cable Break Point

Cable and wire inputs set the parameters for cable placement depth, cable maximum sizes and the amount of discount applied to cable. To set the default values for Drop and NID, the data responses provided by the participating LECs was averaged to determine a national average installed cost for each. The travel and installation labor hours are adjusted to account for installing more than one unit per trip per 8 hour workday. Fiber and copper default discounts are set as 0% as discounts are already applied to the data received from LECs. To apply additional discounts to cable in this table, a user should adjust the total amount of the discount to account for the inclusion of labor in the cable cost tables. The default value for the Cable Break Point is set at 12,000 feet total loop distance (wire center to subscriber). However, breakpoints ranging from 6000 feet to 18,000 feet are available on the pull down menu for users to set their own or for sensitivity analysis. The 12,000 foot default is designed to allow for provisioning of services up to and including DS1. To extend the breakpoint, a user must adjust cable cost to account for additional provisioning cost (load coils, repeaters, etc. depending on service) and gauge changes in cables in the feeder **and** distribution.

Terrain Inputs and Surface Impacts

CriticalWaterDepth	3	Depth in feet at which water impacts placement costs
WaterFactor	30.00%	% Cost increase for presence of water within critical depth
NewTerrainTrigger	5	Value that triggers new terrain variable multiplier
NewTerrainFactor	1	Cost multiplier when new terrain variable exceeds trigger point
MinSlopeTrigger	12	Point at which minimum slope effects placement distance
MinSlopeFactor	1.100	Change in distance due to increased average slope
MaxSlopeTrigger	30	Point where presence of very high slope causes yet more cable distance
MaxSlopeFactor	1.0500	Change in distance due to a maximum only slope presence
CombSlopeFactor	1.200	Secondary change in distance due to substantial slope presence

Slope Triggers are set at the percent slope when facilities must be placed along the contours of the hillside rather than in a point-to-point placement. The Slope Factors are the multipliers used to add the additional distance that the facilities must travel as they wind their way across the higher slope terrain. Three different Slope Triggers are used to adjust distance: 1) the minimum slope trigger: when the average minimum slope in the CBG exceeds 12 degrees (default) then distance is adjusted by this minimum slope factor, 2) the maximum slope trigger: when the average maximum slope in the CBG exceeds 30 degrees (defaults) the distance is adjusted by this maximum slope factor, 3)

the combined slope trigger: when both the minimum and maximum slope triggers are exceeded the distance is adjusted by the combined slope factor.

Digital Carrier Inputs

OpticsCost	$75,000	Average Cost for each DS-3 for CO and field DS3 to DS1 multiplexers
CopperT1	$2,500	Average Cost per DS-1 on copper (both terminals & repeater)
ElectronicFill	85.00%	Fill Factors for Electronics
HiCapFill	95.00%	Fill Factors for High Capacity Optic Multiplexers
	0.00%	AFC Electronics Discount %
	0.00%	SLC Electronics Discount %

This table provides the cost of electronics for terminating private line and digital PBX services at the DS1 signal level. The table also includes the fill factors that applies to the line cards in the channel units.