NOTE: This sheet diplays all user adjustable inputs which vary from HM/FCC default settings

Workfile Name: **C:\HCPM\WORKFILES\HMWKIA3511869999.XLS**
Distribution Module Name: **C:\HCPM\feeddist.exe 9/10/99 1:14:54 PM**
Feeder Module Name: **C:\HCPM\inputs\hcpm_inputs_October1999.xls**
Switching Module Name: **C:\HCPM\MODULES\RFCC_switching_IO_October1999.xls**
Expense Module Name: **C:\HCPM\MODULES\RFCC_expense_density_October1999.xls**

Module/Table	Scenario Input	Scenario Value	Default Value
Switching	Local Call Attempts	235094	0
Switching	Call Completion Factor	0.7	0
Switching	IntraLATA Calls Completed	27797	0
Switching	InterLATA intrastate Calls Completed	23695	0
Switching	InterLATA interstate Calls Completed	31837	0
Switching	Local DEMs, thousands	824272	0
Switching	Intrastate DEMs, thousands	429727	0
Switching	Interstate DEMs, thousands	222000	0

End Office Switching

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
EO Switching Investment										
end office switching	$ 2,751,811	$ 7,710,494	$ 4,963,123	$ 5,114,792	$ 455,144	$ 2,149,248	$ 262,621	$ -	$ -	$ 23,407,233
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	333,982	1,004 432	621,090	748,532	51,801	356,135	49,027	-	-	3,164,999
land	56,173	190,808	104,491	114,165	9,751	59,611	9,001	-	-	544,000
TOTAL	$ 3,141,967	$ 8,905,734	$ 5,688,703	$ 5,977,489	$ 516,696	$ 2,564,995	$ 320,649	$ -	$ -	$ 27,116,232
	11 59%	32 84%	20 98%	22 04%	1 91%	9 46%	1 18%	0 00%	0 00%	100 00%
Levelized Cost of Capital										
end office switching	$ 371,593	$ 1,041,192	$ 670,199	$ 690,680	$ 61,461	$ 290,225	$ 35,463	$ -	$ -	$ 3,160,814
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	44,713	134,471	83,150	100,212	6,935	47,679	6,564	-	-	423,724
land	8,990 81	30,539 73	16,724 28	18,272 72	1,560 65	9,541	1,440 61	-	-	87,070
TOTAL	$ 425,297	$ 1,206,204	$ 770,074	$ 809,165	$ 69,956	$ 347,445	$ 43,468	$ -	$ -	$ 3,671,608
Network Expenses										
end office switching	$ 153,551	$ 430,246	$ 276,942	$ 285,405	$ 25,397	$ 119,928	$ 14,654	$ -	$ -	$ 1,306,124
MDF/protector	-	-	-	-	-	-	-	-	-	-
wire center	30,259	91,002	56,271	67,817	4,693	32,266	4,442	-	-	286,749
land	-	-	-	-	-	-	-	-	-	-
TOTAL	$ 183,810	$ 521,247	$ 333,213	$ 353,222	$ 30,090	$ 152,194	$ 19,096	$ -	$ -	$ 1,592,873
Summary										
Cost of Capital	$ 425,297	$ 1,206,204	$ 770,074	$ 809,165	$ 69,956	$ 347,445	$ 43,468	$ -	$ -	$ 3,671,608
Network Expense	183,810	521,247	333,213	353,222	30,090	152,194	19,096	-	-	1,592,873
TOTAL	$ 609,107	$ 1,727,451	$ 1,103,287	$ 1,162,387	$ 100,047	$ 499,639	$ 62,564	$ -	$ -	$ 5,264,480

Signaling

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Signaling Investment										
SCP	$ 14,088	$ 46,893	$ 30,728	$ 48,830	$ 4,268	$ 31,595	$ 4,103	$ -	$ -	$ 180,503
SCP wire center	2,254	7,503	4,916	7,813	683	5,055	656	-	-	28,880
STP	30,993	103,164	67,601	107,426	9,389	69,509	9,026	-	-	397,108
signaling links	255,576	851,184	208,629	63,535	5,708	13,177	2,382	-	-	1,400,191
TOTAL	$ 302,910	$ 1,008,742	$ 311,874	$ 227,603	$ 20,046	$ 119,336	$ 16,167	$ -	$ -	$ 2,006,679
	15.10%	50.27%	15.54%	11.34%	1.00%	5.95%	0.81%	0.00%	0.00%	100.00%
Levelized Cost of Capital										
SCP	$ 1,902	$ 6,332	$ 4,149	$ 6,594	$ 576	$ 4,266	$ 554	$ -	$ -	$ 24,374
SCP wire center	302	1,004	658	1,046	91	677	88	-	-	3,866
STP	4,185	13,931	9,128	14,506	1,268	9,386	1,219	-	-	53,623
signaling links	36,326	120,983	29,653	9,030	811	1,873	339	-	-	199,016
TOTAL	$ 42,715	$ 142,250	$ 43,589	$ 31,177	$ 2,747	$ 16,202	$ 2,199	$ -	$ -	$ 280,880
Network Expenses										
SCP	$ 786	$ 2,617	$ 1,715	$ 2,725	$ 238	$ 1,763	$ 229	$ -	$ -	$ 10,072
SCP wire center	204	680	445	708	62	458	59	-	-	2,617
STP	1,729	5,757	3,772	5,994	524	3,879	504	-	-	22,158
signaling links	11,459	38,164	9,354	2,849	256	591	107	-	-	62,780
TOTAL	$ 14,179	$ 47,217	$ 15,286	$ 12,276	$ 1,080	$ 6,690	$ 899	$ -	$ -	$ 97,627
Summary										
Cost of Capital	$ 42,715	$ 142,250	$ 43,589	$ 31,177	$ 2,747	$ 16,202	$ 2,199	$ -	$ -	$ 280,880
Network Expense	14,179	47,217	15,286	12,276	1,080	6,690	899	-	-	97,627
TOTAL	$ 56,894	$ 189,467	$ 58,876	$ 43,452	$ 3,827	$ 22,893	$ 3,098	$ -	$ -	$ 378,507

Dedicated Transport

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Dedicated Transport Investment										
underground cable	$ 1,393,618	$ 4,536,740	$ 2,170,183	$ 1,435,630	$ 103,346	$ 601,385	$ 130,554	$ -	$ -	$ 10,371,455
buried cable	1,255,206	4,094,676	1,950,546	1,332,940	92,810	590,908	124,559	-	-	9,441,645
aerial cable	321,930	1,044,551	499,091	336,264	23,979	142,974	30,548	-	-	2,399,337
poles	90,938	302,822	141,891	97,605	6,753	40,193	8,089	-	-	688,291
conduit	110,376	358,132	171,117	115,291	8,221	49,020	10,474	-	-	822,630
manholes	13,076	41,070	19,535	14,294	1,042	5,422	1,037	-	-	95,477
TOTAL	$ 3,185,145	$ 10,377,991	$ 4,952,362	$ 3,332,025	$ 236,151	$ 1,429,901	$ 305,260	$ -	$ -	$ 23,818,834
Levelized Cost of Capital										
underground cable	$ 198,496	$ 646,179	$ 309,105	$ 204,480	$ 14,720	$ 85,657	$ 18,595	$ -	$ -	$ 1,477,232
buried cable	176,291	575,088	273,950	187,208	13,035	82,992	17,494	-	-	1,326,058
aerial cable	46,205	149,918	71,631	48,262	3,442	20,520	4,384	-	-	344,362
poles	14,642	48,759	22,847	15,716	1,087	6,472	1,302	-	-	110,825
conduit	14,121	45,818	21,892	14,750	1,052	6,271	1,340	-	-	105,245
manholes	1,673	5,254	2,499	1,829	133	694	133	-	-	12,215
TOTAL	$ 451,429	$ 1,471,017	$ 701,924	$ 472,245	$ 33,469	$ 202,605	$ 43,249	$ -	$ -	$ 3,375,938
Network Expenses										
underground cable	$ 11,706	$ 38,109	$ 18,230	$ 12,059	$ 868	$ 5,052	$ 1,097	$ -	$ -	$ 87,120
buried cable	7,657	24,978	11,898	8,131	566	3,605	760	-	-	57,594
aerial cable	2,350	7,625	3,643	2,455	175	1,044	223	-	-	17,515
poles	1,992	6,632	3,107	2,138	148	880	177	-	-	15,074
conduit	640	2,077	992	669	48	284	61	-	-	4,771
manholes	76	238	113	83	6	31	6	-	-	554
TOTAL	$ 24,421	$ 79,659	$ 37,984	$ 25,534	$ 1,811	$ 10,896	$ 2,323	$ -	$ -	$ 182,628
Summary										
Cost of Capital	$ 451,429	$ 1,471,017	$ 701,924	$ 472,245	$ 33,469	$ 202,605	$ 43,249	$ -	$ -	$ 3,375,938
Network Expense	24,421	79,659	37,984	25,534	1,811	10,896	2,323	-	-	182,628
TOTAL	$ 475,849	$ 1,550,676	$ 739,908	$ 497,780	$ 35,280	$ 213,501	$ 45,572	$ -	$ -	$ 3,558,566
Transmission Terminal										
investment	$ 307,316	$ 780,272	$ 633,043	$ 729,056	$ 45,922	$ 323,251	$ 40,700	$ -	$ -	$ 2,859,560
levelized cost of capital	52,606	133,566	108,363	124,799	7,861	55,334	6,967	-	-	489,495
network expenses	6,146	15,605	12,661	14,581	918	6,465	814	-	-	57,191
TOTAL	$ 58,752	$ 149,171	$ 121,024	$ 139,380	$ 8,779	$ 61,799	$ 7,781	$ -	$ -	$ 546,686

HAI Model Release FCC - Expense Module
Density Zone Level Calculations

density zone (lines/sq mi)	feeder type	total lines	business lines	residential lines	special access lines	public lines	single line business lines	households	copper feeder cable u/g	copper feeder cable buried	copper feeder cable aerial	fiber feeder cable u/g	fiber feeder cable buried	fiber feeder cable aerial	feeder conduit	feeder manholes	copper feeder u/g placement	fiber feeder u/g placement	copper feeder buried placement	fiber feeder buried placement
0	DLC	5 835	201	5 434	-	-	-	5 106	$ 9,198	$ 66 503	$ 60,352	$ 533 586	$ 1 675 210	$ 2 292 202	$ 37 206	$ 90 135	$ -	$ 148 338	$ -	$ 1,028,054
5	DLC	10 684	1 135	9 549	-	-	-	8 946	$ 30 028	$ 235 830	$ 210 284	$ 416 492	$ 1 339 488	$ 1 826 396	$ 30 291	$ 93 418	$ -	$ 166 484	$ -	$ 1,058 649
100	DLC	871	350	821	-	-	-	578	$ 321	$ 2 228	$ 2 052	$ 7 152	$ 24 858	$ 32 382	$ 411	$ 4 505	$ -	$ 4 807	$ -	$ 31,448
200	DLC	3 872	1 331	2 541	-	-	-	2 379	$ 3 045	$ 22 487	$ 20 184	$ 13 443	$ 44 829	$ 59 827	$ 1 806	$ 11 782	$ -	$ 23 953	$ -	$ 114,091
650	DLC																			
850	DLC																			
2550	DLC																			
5000	DLC																			
10000	DLC																			
0	non DLC																			
5	non DLC	8 073	1 024	7 049	-	-	-	6 644	$ 0	$ 2	$ 2	$ 140	$ 440	$ 610	$ 9	$ 129 785	$ 124 940	$ -	$ 758 234	$ -
100	non DLC	11 320	2 484	8 836	-	-	-	8 278	$ 213	$ 1 514	$ 1 387	$ 2 965	$ 9 802	$ 13 149	$ 174	$ 96 360	$ 69 705	$ -	$ 435 549	$ -
200	non DLC	15 660	4 521	11 139	-	-	-	10 434	$ 11 798	$ 93 708	$ 83 500	$ 32 793	$ 106 385	$ 144 308	$ 3 743	$ 104 194	$ 75 484	$ -	$ 424 312	$ -
650	non DLC	1 707	536	1 171	-	-	-	1 158	$ 258	$ 1 744	$ 1 604	$ 1 577	$ 4 942	$ 6 845	$ 105	$ 7 602	$ 4 270	$ -	$ 22 981	$ -
850	non DLC	12 638	4 190	8 448	-	-	-	7 930	$ 19 592	$ 162 207	$ 143 201	$ 28 487	$ 93 518	$ 125 911	$ 5 608	$ 24 197	$ 51 005	$ -	$ 197 258	$ -
2550	non DLC	1 841	808	833	-	-	-	816	$ 559	$ 4 101	$ 3 692	$ 980	$ 3 148	$ 4 295	$ 215	$ 2 220	$ 7 448	$ -	$ 21 976	$ -
5000	non DLC																			
10000	non DLC																			
Totals/Avgs		72 201	16 580	55 621	-			52 271	$ 75,013	$ 590 323	$ 528,258	$ 1,037,598	$ 3,302 621	$ 4,505 924	$ 79 368	$ 564,188	$ 332,852	$ 343,583	$ 1,658,890	$ 2,231,843

HA

density zone (lines/sq mi)	feeder type	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial	distribution conduit	distribution conduit placement	distribution buried placement	distribution poles	calc copper feeder fill	calc distribution fill	calc "mainframe fill"	DLC inv w/site	SAI inv	terminal inv	drop inv	NID inv	feeder distance
0	DLC	$ 274 213	$ 38 034	$ 7 714 820	$ 9 935 219	$ 1 475	$ 13 273	$ 7 938 751	$ 5 210 268	76 43%	55 34%	0 00%	$ 5 361 887	$ 42 013	$ 540 767	$ 781 081	$ 218 712	3 337 333
5	DLC	$ 298 499	$ 892 872	$ 7 666 164	$ 8 967 352	$ 29 252	$ 263 270	$ 14 417 478	$ 4 243 389	79 80%	57 63%	0 00%	$ 6 177 455	$ 84 200	$ 868 094	$ 1 245 981	$ 398 180	2 652 069
100	DLC	$ 13 641	$ 20 871	$ 117 358	$ 94 497	$ 2 157	$ 19 417	$ 303 278	$ 49 759	80 86%	57 03%	0 00%	$ 320 611	$ 5 395	$ 42 435	$ 54 815	$ 26 821	44 233
200	DLC	$ 40 769	$ 88 916	$ 359 954	$ 243 139	$ 9 700	$ 87 299	$ 849 527	$ 132 489	81 87%	63 33%	0 00%	$ 841 308	$ 18 434	$ 150 303	$ 173 101	$ 114 234	85 045
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non DLC																	
5	non DLC	$ 398 761	$ 145 839	$ 1 431 349	$ 1 554 942	$ 5 352	$ 48 169	$ 2 747 302	$ 805 324	77 50%	53 95%	0 00%	$ -	$ 45 636	$ 394 095	$ 553 318	$ 297 514	900
100	non DLC	$ 298 795	$ 210 363	$ 1 225 646	$ 952 026	$ 24 212	$ 217 911	$ 3 365 003	$ 554 778	80 13%	54 84%	0 00%	$ -	$ 56 199	$ 451 659	$ 605 592	$ 386 547	18 094
200	non DLC	$ 328 897	$ 355 935	$ 1 221 315	$ 883 200	$ 38 622	$ 347 598	$ 3 382 542	$ 527 529	82 43%	60 96%	0 00%	$ -	$ 75 988	$ 606 997	$ 677 207	$ 502 519	210 370
650	non DLC	$ 22 213	$ 56 450	$ 99 842	$ 75 381	$ 6 267	$ 56 403	$ 289 824	$ 44 320	82 50%	64 57%	0 00%	$ -	$ 7 644	$ 63 079	$ 72 553	$ 56 130	10 205
850	non DLC	$ 108 190	$ 811 978	$ 441 208	$ 423 984	$ 108 575	$ 977 174	$ 1 500 109	$ 269 605	82 50%	67 06%	0 00%	$ -	$ 55 079	$ 418 018	$ 405 546	$ 383 901	183 479
2550	non DLC	$ 12 049	$ 142 472	$ 22 921	$ 36 965	$ 20 860	$ 187 738	$ 81 567	$ 18 498	82 50%	68 13%	0 00%	$ -	$ 7 644	$ 49 458	$ 40 603	$ 46 768	6 368
5000	non DLC																	
10000	non DLC																	
Totals/Avgs		$ 1,791,826	$ 2,773,727	$ 20,300,575	$ 23,166,726	$ 246,472	$ 2,218,252	$ 34,875,379	$ 11,855,939				$ 12,701,262	$ 398,232	$ 3,584,906	$ 4,809,577	$ 2,431,304	6,548,718

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density zone (lines/sq mi)	feeder type	total distribution distance	DLC lines	end office switching	MDF/protector inv	end office wire center	land	local tandem switching	local tandem wire center	OS tandem switching	OS tandem wire center	OS trunks	operator position	common transport, u/g	common transport, buried	common transport, aerial	common transport, pulse	common transport, conduit
0	DLC	15 693 483	5 635	$ 2 751 811	$ -	$ 333 982	$ 58 173	$ 76 250	$ 154 531	$ 4 508	$ 5 635	$ 526 902	$ 6 501	$ 785 610	$ 707 517	$ 181 272	$ 81 216	$ 62 151
5	DLC	13 831 098	10 684	$ 3 650 367	$ -	$ 480 769	$ 87 393	$ 139 140	$ 292 992	$ 8 547	$ 10 684	$ 658 832	$ 12 325	$ 1 010 508	$ 912 375	$ 232 543	$ 67 150	$ 79 729
100	DLC	167 261	971	$ 235 562	$ -	$ 25 398	$ 4 781	$ 12 027	$ 26 628	$ 777	$ 971	$ 23 472	$ 1 120	$ 36 444	$ 32 977	$ 8 395	$ 2 323	$ 2 878
200	DLC	445 350	3 872	$ 941 797	$ -	$ 129 946	$ 19 850	$ 48 183	$ 106 183	$ 3 098	$ 3 872	$ 68 471	$ 4 487	$ 107 195	$ 99 197	$ 24 801	$ 8 908	$ 8 503
850	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non DLC																	
5	non DLC	2 635 298	-	$ 4 080 127	$ -	$ 523 663	$ 103 414	$ 111 930	$ 221 389	$ 6 458	$ 8 073	$ 1 061 346	$ 9 313	$ 1 576 131	$ 1 420 749	$ 362 443	$ 108 095	$ 124 288
100	non DLC	1 754 583	-	$ 4 727 561	$ -	$ 595 692	$ 99 710	$ 148 804	$ 310 433	$ 9 056	$ 11 320	$ 869 251	$ 13 059	$ 991 258	$ 890 974	$ 227 780	$ 65 004	$ 78 099
200	non DLC	1 823 864	-	$ 4 172 995	$ -	$ 618 588	$ 94 315	$ 199 788	$ 429 450	$ 12 528	$ 15 660	$ 286 638	$ 18 065	$ 440 947	$ 407 795	$ 103 434	$ 30 240	$ 35 483
850	non DLC	130 350	-	$ 455 144	$ -	$ 51 801	$ 9 751	$ 21 358	$ 46 812	$ 1 366	$ 1 707	$ 28 576	$ 1 969	$ 43 514	$ 39 078	$ 10 096	$ 2 843	$ 3 462
850	non DLC	757 037	-	$ 2 149 248	$ -	$ 356 135	$ 59 611	$ 154 273	$ 346 577	$ 10 110	$ 12 638	$ 116 683	$ 14 579	$ 191 101	$ 187 869	$ 45 428	$ 12 790	$ 15 575
2550	non DLC	66 621	-	$ 262 621	$ -	$ 49 027	$ 9 001	$ 20 034	$ 45 002	$ 1 313	$ 1 641	$ 24 569	$ 1 893	$ 40 920	$ 39 041	$ 9 575	$ 2 535	$ 3 263
5000	non DLC																	
10000	non DLC																	
Totals/Avgs		37,204,944	21,162	$ 23,407,233	$	$ 3,164,999	$ 544,000	$ 931,767	$ 1,979,997	$ 57,761	$ 72,201	$ 3,464,739	$ 83,291	$ 5,223,628	$ 4,737,371	$ 1,205,775	$ 347,105	$ 413,409

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density zone (lines/sq mi)	feeder type	common transport, manholes	common transmission terminal inv	direct transport, ug	direct transport, buried	direct transport, aerial	direct transport, poles	direct transport, conduit	direct transport, manholes	direct transmission terminal inv	dedicated transport, ug	dedicated transport, buried	dedicated transport, aerial	dedicated transport, poles	dedicated transport, conduit	dedicated transport, manholes	dedicated transmission terminal inv	prop local direct trunks
0	DLC	$ 7,289	$ 131,296	$ 1,116,215	$ 1,004,723	$ 257,639	$ 72,815	$ 86,333	$ 10,394	$ 192,603	$ 1,393,618	$ 1,255,206	$ 321,930	$ 90,938	$ 110,376	$ 13,076	$ 307,316	98
5	DLC	$ 8,071	$ 147,001	$ 1,458,773	$ 1,318,212	$ 335,881	$ 97,036	$ 115,159	$ 13,140	$ 221,168	$ 1,883,395	$ 1,705,185	$ 434,192	$ 125,071	$ 148,866	$ 17,057	$ 405,183	158
100	DLC	$ 337	$ 6,078	$ 58,974	$ 51,363	$ 13,587	$ 3,761	$ 4,858	$ 548	$ 9,833	$ 91,746	$ 83,011	$ 21,142	$ 5,855	$ 7,249	$ 852	$ 24,044	11
200	DLC	$ 938	$ 34,212	$ 175,108	$ 162,191	$ 40,528	$ 11,279	$ 13,895	$ 1,529	$ 55,729	$ 285,042	$ 264,604	$ 66,045	$ 18,392	$ 22,644	$ 2,493	$ 128,737	47
650	DLC																	
850	DLC																	
2550	DLC																	
5000	DLC																	
10000	DLC																	
0	non DLC																	
5	non DLC	$ 14,207	$ 173,360	$ 2,229,524	$ 2,008,742	$ 512,749	$ 149,793	$ 175,800	$ 20,113	$ 250,155	$ 2,653,344	$ 2,389,491	$ 610,360	$ 177,751	$ 209,286	$ 24,012	$ 375,109	148
100	non DLC	$ 8,827	$ 236,428	$ 1,517,026	$ 1,363,298	$ 348,693	$ 99,387	$ 119,552	$ 13,560	$ 363,015	$ 2,078,437	$ 1,867,535	$ 477,948	$ 136,036	$ 163,868	$ 18,883	$ 609,000	180
200	non DLC	$ 4,523	$ 172,414	$ 713,581	$ 660,624	$ 167,428	$ 48,953	$ 57,404	$ 7,315	$ 278,481	$ 1,150,588	$ 1,068,336	$ 270,219	$ 79,213	$ 92,647	$ 11,801	$ 600,318	228
650	non DLC	$ 439	$ 12,855	$ 68,535	$ 61,548	$ 15,902	$ 4,478	$ 5,452	$ 691	$ 20,247	$ 103,346	$ 92,810	$ 23,979	$ 6,753	$ 8,221	$ 1,042	$ 45,922	20
850	non DLC	$ 1,728	$ 68,160	$ 331,200	$ 325,376	$ 78,731	$ 22,141	$ 26,994	$ 2,968	$ 116,207	$ 601,385	$ 590,908	$ 142,974	$ 40,193	$ 49,020	$ 5,422	$ 323,251	143
2550	non DLC	$ 325	$ 8,120	$ 71,707	$ 68,414	$ 16,779	$ 4,443	$ 5,753	$ 570	$ 14,228	$ 130,554	$ 124,559	$ 30,548	$ 8,089	$ 10,474	$ 1,037	$ 40,700	19
5000	non DLC																	
10000	non DLC																	
Totals/Avgs		$ 47,684	$ 989,924	$ 7,740,624	$ 7,026,440	$ 1,787,916	$ 514,086	$ 613,000	$ 70,846	$ 1,521,646	$ 10,371,455	$ 9,441,645	$ 2,399,337	$ 688,291	$ 822,630	$ 95,477	$ 2,859,560	1,853

HA

density zone (lines/sq mi)	feeder type	prop local tandem trunks	prop intraLATA direct trunks	prop intraLATA tandem trunks	prop access dedicated trunks	prop access tandem trunks	prop operator trunks	SCP investment	SCP wire center inv	STP inv	signaling link inv	total public telephone inv	total residential annual DEMs	total business annual DEMs	Total Investment
0	DLC	20	61	41	270	72	38	14 088	$ 2,254	$ 30 993	$ 255 576	$ -	62 355 049	3 621 747	56 393 015
5	DLC	28	94	62	448	112	56	26 710	$ 4 274	$ 58 782	$ 301 338	$ -	109 574 598	20 451 157	67 424 312
100	DLC	1	6	4	32	8	3	2 428	$ 388	$ 5 341	$ 4 451	$ -	7 125 963	6 306 524	1 992 410
200	DLC	5	25	16	145	32	14	9 680	$ 1 549	$ 21 296	$ 11 857	$ -	29 157 928	23 882 810	6 335 229
650	DLC														-
850	DLC														-
2550	DLC														-
5000	DLC														-
10000	DLC														-
0	non DLC														-
5	non DLC	36	96	68	372	110	63	20 183	$ 3 229	$ 44 402	$ 549 845	$ -	80 887 144	18 451 088	31 726 577
100	non DLC	32	107	69	494	126	64	28 300	$ 4 528	$ 62 260	$ 204 178	$ -	101 392 938	44 758 303	27 538 117
200	non DLC	28	125	78	702	155	69	39 150	$ 6 264	$ 86 130	$ 51 678	$ -	127 819 818	81 462 273	22 461 307
650	non DLC	3	12	7	58	14	7	4 268	$ 683	$ 9 389	$ 5 708	$ -	13 437 203	9 657 991	2 111 359
850	non DLC	13	71	41	454	92	36	31 595	$ 5 055	$ 69 509	$ 13 177	$ -	96 940 643	75 498 103	13 272 708
2550	non DLC	2	9	5	60	12	5	4 103	$ 656	$ 9 026	$ 2 382	$ -	9 558 660	14 559 061	1 779 114
5000	non DLC														-
10000	non DLC														-
Totals/Avgs		168	607	390	3 035	731	355	180,503	$ 28,880	$ 397,106	$ 1 400,191	$ -	638,249 941	298,749 050	231,034,149

Universal Service Calculation Sheet - monthly costs per line

Iowa
Contel Of Ks Inc - Iowa

	0 - 5 lines/sq mi	5 - 100 lines/sq mi	100 - 200 lines/sq mi	200 - 650 lines/sq mi	650 - 850 lines/sq mi	850 - 2,550 lines/sq mi	2,550 - 5,000 lines/sq mi	5,000 - 10,000 lines/sq mi	> 10,000 lines/sq mi	Weighted Average
Local network costs										
Loop	$ 138.53	$ 64.72	$ 25.56	$ 23.22	$ 17.55	$ 17.31	$ 15.44	$ -	$ -	$ 42.05
Port	2.11	2.11	2.11	2.11	2.11	2.11	2.11	-	-	2.11
End office usage	2.38	2.38	2.38	2.38	2.38	2.38	2.38	-	-	2.38
Signaling	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-	-	0.16
Transport	2.71	2.71	2.71	2.71	2.71	2.71	2.71	-	-	2.71
Local retail costs										
Billing/bill inquiries	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Directory listing	-	-	-	-	-	-	-	-	-	-
LNP expense (when available)	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Basic Local Service										
Avg monthly cost per line	**$ 145.88**	**$ 72.07**	**$ 32.92**	**$ 30.57**	**$ 24.91**	**$ 24.66**	**$ 22.80**	**$ -**	**$ -**	**$ 49.41**
@ Residence usage per line	**$ 145.77**	**$ 71.95**	**$ 32.80**	**$ 30.45**	**$ 24.79**	**$ 24.55**	**$ 22.68**	**$ -**	**$ -**	**$ 53.37**
@ Business usage per line	**$ 146.28**	**$ 72.47**	**$ 33.31**	**$ 30.97**	**$ 25.30**	**$ 25.06**	**$ 23.19**	**$ -**	**$ -**	**$ 36.12**
Total switched lines	5,635	18,757	12,291	19,532	1,707	12,638	1,641	-	-	72,201
Primary residence lines	5,106	15,590	8,856	12,813	1,158	7,930	818	-	-	52,271
Secondary residence lines	328	1,008	601	867	13	518	15	-	-	3,350
Single line business lines	-	-	-	-	-	-	-	-	-	-
Multline business lines	201	2,159	2,834	5,852	536	4,190	808	-	-	16,580
Public lines	-	-	-	-	-	-	-	-	-	-
FEDERAL FUND ANALYSIS										
Annual Support for line types: Specify / Bench mark										
Primary residence lines — X — $31.00	$ 7,031,974	$ 7,661,726	$ 191,434	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,885,134
Secondary residence lines — $31.00	$ 451,721	$ 495,383	$ 12,991	$ -	$ -	$ -	$ -	$ -	$ -	$ 960,095
Single line business lines — X — $51.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
Multline business lines — $51.00	$ 229,814	$ 556,173	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 785,988
Public lines — $51.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
Support cost if all lines supported	$ 7,713,509	$ 8,713,282	$ 204,426	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,631,217
Total annual support for specified lines	**$ 7,031,974**	**$ 7,661,726**	**$ 191,434**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 14,885,134**
@25% Federal allocation	$ 1,757,994	$ 1,915,431	$ 47,859	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,721,284
@Implied 75% State allocation	$ 5,273,981	$ 5,746,294	$ 143,576	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,163,851

Total Annual Support for Primary Residence Lines at Pre-Selected Monthly Benchmarks

$20.00	$ 7,705,966	$ 9,719,606	$ 1,360,426	$ 1,607,285	$ 66,556	$ 432,591	$ 26,326	$ -	$ -	$ 20,918,756
$30.00	$ 7,093,246	$ 7,848,806	$ 297,706	$ 69,725	$ -	$ -	$ -	$ -	$ -	$ 15,309,483
$40.00	$ 6,480,526	$ 5,978,006	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,458,532
$50.00	$ 5,867,806	$ 4,107,206	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,975,012
$60.00	$ 5,255,086	$ 2,236,406	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,491,492
$70.00	$ 4,642,366	$ 365,606	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,007,972
$80.00	$ 4,029,646	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,029,646

STATE FUND ANALYSIS												
Annual Support for line types:	Specify	Bench mark										
Primary residence lines	X	$31.00	$ 7,031,974	$ 7,661,726	$ 191,434	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,885,134
Secondary residence lines		$31.00	$ 451,721	$ 495,383	$ 12,991	$ -	$ -	$ -	$ -	$ -	$ -	$ 960,095
Single line business lines	X	$51.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
Multline business lines		$51.00	$ 229,814	$ 556,173	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 785,988
Public lines		$51.00	$ 0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0
Support cost if all lines supported			$ 7,713,509	$ 8,713,282	$ 204,426	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,631,217
Total annual support for specified lines			$ 7,031,974	$ 7,661,726	$ 191,434	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,885,134
@75% State allocation			$ 5,273,981	$ 5,746,294	$ 143,576	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,163,851
@Implied 25% Federal allocation			$ 1,757,994	$ 1,915,431	$ 47,859	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,721,284

TOTAL FUND ANALYSIS											
25% Federal allocation from Federal Fund Analys	$ 1,757,994	$ 1,915,431	$ 47,859	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,721,284
75% State allocation from State Fund Analysis	$ 5,273,981	$ 5,746,294	$ 143,576	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,163,851
Total Federal + State fund	$ 7,031,974	$ 7,661,726	$ 191,434	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,885,134

Module release date 11/4/97

Loop elements	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
NID										
Annual Cost	$ 576,133	$ 1,911,788	$ 1,245,289	$ 1,971,991	$ 172,748	$ 1,273,511	$ 164,732	$ -	$ -	$ 7,316,192
Unit Cost/month	8.52	8.49	8.44	8.41	8.43	8.40	8.37	-	-	8.44
Loop Distribution (DLC)										
Annual Cost	$ 6,652,217	$ 8,207,808	$ 475,885	$ 946,585	$ -	$ -	$ -	$ -	$ -	$ 16,282,495
Unit Cost/month	98.38	64.02	40.84	20.37	-	-	-	-	-	64.12
Loop Distribution (non-DLC)										
Annual Cost	$ -	$ 1,732,163	$ 1,621,761	$ 1,774,994	$ 164,982	$ 1,111,754	$ 120,401	$ -	$ -	$ 6,526,055
Unit Cost/month	-	17.88	11.94	9.45	8.05	7.33	6.11	-	-	10.66
Loop Distribution (all)										
Annual Cost	$ 6,652,217	$ 9,939,970	$ 2,097,646	$ 2,721,579	$ 164,982	$ 1,111,754	$ 120,401	$ -	$ -	$ 22,808,549
Unit Cost/month	98.38	44.16	14.22	11.61	8.05	7.33	6.11	-	-	26.33
Loop Concentration (DLC)										
Annual Cost	$ 1,063,672	$ 1,290,501	$ 119,465	$ 256,172	$ -	$ -	$ -	$ -	$ -	$ 2,729,810
Unit Cost/month	15.73	10.07	10.25	5.51	-	-	-	-	-	10.75
Loop Concentration (non-DLC)										
Annual Cost	$ -	$ 11,417	$ 13,035	$ 17,945	$ 1,782	$ 12,891	$ 1,778	$ -	$ -	$ 58,848
Unit Cost/month	-	0.12	0.10	0.10	0.09	0.08	0.09	-	-	0.10
Loop Concentration (all)										
Annual Cost	$ 1,063,672	$ 1,301,918	$ 132,500	$ 274,117	$ 1,782	$ 12,891	$ 1,778	$ -	$ -	$ 2,788,658
Unit Cost/month	15.73	5.78	0.90	1.17	0.09	0.08	0.09	-	-	3.22
Loop Feeder (DLC)										
Annual Cost	$ 960,894	$ 950,662	$ 62,652	$ 126,005	$ -	$ -	$ -	$ -	$ -	$ 2,100,213
Unit Cost/month	14.21	7.41	5.38	2.71	-	-	-	-	-	8.27
Loop Feeder (non-DLC)										
Annual Cost	$ -	$ 284,477	$ 186,352	$ 281,342	$ 15,637	$ 194,741	$ 13,510	$ -	$ -	$ 976,059
Unit Cost/month	-	2.94	1.37	1.50	0.76	1.28	0.69	-	-	1.59
Loop Feeder (all)										
Annual Cost	$ 960,894	$ 1,235,138	$ 249,004	$ 407,347	$ 15,637	$ 194,741	$ 13,510	$ -	$ -	$ 3,076,272
Unit Cost/month	14.21	5.49	1.69	1.74	0.76	1.28	0.69	-	-	3.55
Total Loop (DLC)										
Annual Cost	$ 9,252,916	$ 11,537,926	$ 756,381	$ 1,719,687	$ -	$ -	$ -	$ -	$ -	$ 23,266,910
Unit Cost/month	136.84	89.99	64.91	37.01	-	-	-	-	-	91.62
Total Loop (non-DLC)										
Annual Cost	$ -	$ 2,850,889	$ 2,968,059	$ 3,655,348	$ 355,149	$ 2,592,897	$ 300,420	$ -	$ -	$ 12,722,762
Unit Cost/month	-	29.43	21.85	19.45	17.34	17.10	15.26	-	-	20.77
Total Loop (all)										
Annual Cost	$ 9,252,916	$ 14,388,815	$ 3,724,439	$ 5,375,035	$ 355,149	$ 2,592,897	$ 300,420	$ -	$ -	$ 35,989,671
Unit Cost/month	136.84	63.93	25.25	22.93	17.34	17.10	15.26	-	-	41.54
Total lines	5,635	18,757	12,291	19,532	1,707	12,638	1,641	-	-	72,201
Total lines served by DLC	5,635	10,684	971	3,872	-	-	-	-	-	21,162

	Annual Cost	Units		Unit Cost		
End office switching	$ 6,012,321					
Line Port	1,803,696	72,201	switched lines	$ 2.08	per line/month	
Non-Line Port	4,208,625	767,140,342	actual minutes	$ 0.00549	per actual minute	(for rate per DEM, see "Cost detail" sheet)
Signaling network elements	$ 431,912					
Links	301,373	98	links	$ 256.27	per link per month	
STP	85,472	696,545,056	TCAP+ISUP msgs	$ 0.00012	per signaling message	
SCP	45,067	41,227,800	TCAP queries	$ 0.00109	per query	
Transport network elements						
Dedicated						
Sw+Sp Transport	$ 4,061,632	3,035	trunks	$ 111.52	per DS-0 equivalent per month	
Switched	4,061,632	3,035	trunks	$ 0.01110	per minute	
Special	-	-	trunks			
Transmission Terminal	624,520	3,035	trunks	$ 17.15	per DS-0 equivalent per month	
				$ 0.00171	per minute	
				$ 0.01281	total per minute	
Common						
Transport	$ 2,041,374	83,086,187	minutes	$ 0.01314	per minute per leg (orig or term)	
Transmission Terminal	216,090	83,086,187	minutes	$ 0.00139	per minute	
				$ 0.01453	total per minute	
Direct						
Transport	$ 3,026,634	142,934,042	minutes	$ 0.02116	per minute	
Transmission Terminal	332,195	142,934,042	minutes	$ 0.00232	per minute	
				$ 0.02350	total per minute	
Tandem switch	$ 711,195	69,212,481	minutes	$ 0.01028	per minute	
Operator systems	$ 813,094					
Public Telephones	$ -					
Total (w/ Public)	$ 54,260,638					
Total cost of switched network elements (w/o Public)	$ 62.63	per line/month				

	Interconnected at end office	Interconnected at tandem	wtd average
Local Interconnection			
EO switching	$ 0 00549	$ 0 00549	
ISUP	$ 0 00068	$ 0 00068	
Common Transport	$ -	$ 0 01453	
Tandem Switching	$ -	$ 0 01028	
TOTAL	$ 0 00616	$ 0 03097	n/a
IXC switched access			
EO switching	$ 0 00549	$ 0 00549	
ISUP	$ 0 00068	$ 0 00068	
Dedicated Transport	$ 0 01281	$ 0 01281	
Common Transport	$ -	$ 0 01453	
Tandem Switching	$ -	$ 0 01028	
TOTAL	$ 0 01897	$ 0 04378	$ 0 02393

Signaling detail	
cost per 800 call attempt (TCAP)	$ 0 0024
ISUP cost/transaction	$ 0 00350
ISUP cost/completion	0 0050
IXC switched access MOU/comp	7 38
ISUP cost/min	$ 0 000677
D link per month	$ 136 61
Dedicated Transport Costs Per Trunk	
DS-0 per month	
Transport per month	$ 111 52
Terminal per month *	$ 212 63
TOTAL	$ 324 15
DS-1 per month	
Transport per month	$ 2,676 53
Terminal per month	$ 411 55
TOTAL	$ 3,088 07
DS-3 per month	
Transport per month	$ 74,942 81
Terminal per month	$ 1,163 97
TOTAL	$ 76,106 77
Trunk Port Costs	
per trunk port (DS-0 equivalent) per month	$ 2 14
per trunk port minute	$ 0 000213
total EO usage per minute	$ 0 005486
trk port/min	$ 0 000213
other	$ 0 005273

Switching detail

The HAI Model engineers switch capacity based on the number of times calls have to pass through a switch fabric For intraswitch calls, this is once. Because some rate structures for unbundled switching may impose two switch charges -- even when the call only passes through the switch once, the appropriate way to calculate the level of such switch charges is to divide the total usage cost of switching by DEMs (rather than actual switched minutes), because two DEMs are counted even when a call originates and terminates on the same switch

Switch non-line port annual cost	4,208,625
Total DEMs	936,999,000
Cost per DEM	$ 0 00449

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	weighted average
calculated distribution fill (DLC)	55 3%	57 6%	57 0%	63 3%	0 0%	0 0%	0 0%	0 0%	0 0%	58 0%
calculated distribution fill (non-DLC)	0 0%	53 9%	54 8%	61 0%	64 6%	67 1%	68 1%	0 0%	0 0%	60 4%
weighted average										59 7%

Per DS0 Transport Calculations	
Entrance Facility Investment per Line	$ 9
Total Dedicated Terminal Investment	2,859,560
Total Lines	72,201
Total Dedicated Terminal Investment per line	$ 40
Entrance Facility percent to total	$ 0
Terminal Investment per DS-0	$ 728
Transport Investment per DS-0	$ 7,848

Network-Related Expenses	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals	
NID											
Annual Capital Cost	$ 33.884	$ 107.778	$ 64.041	$ 95.551	$ 9.696	$ 59.476	$ 7.246	$ -	$ -	$ 376.672	376.672
Network Expenses	$ 5.158	$ 18.130	$ 9.585	$ 14.276	$ 1.292	$ 8.978	$ 1.020	$ -	$ -	$ 58.418	58.418
Direct expense	$ 39.040	$ 123.908	$ 73.606	$ 109.827	$ 9.988	$ 68.454	$ 8.266	$ -	$ -	$ 433.088	433.088
Investment	$ 218.712	$ 695.674	$ 413.368	$ 616.753	$ 56.130	$ 383.901	$ 46.768	$ -	$ -	$ 2.431.304	2.431.304
Support, Overhead and direct per line	$ 535.439	$ 1.782.296	$ 1.167.895	$ 1.855.937	$ 162.200	$ 1.200.867	$ 155.928	$ -	$ -	$ 6.860.561	6.860.561
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 574.480	$ 1.906.204	$ 1.241.500	$ 1.965.764	$ 172.188	$ 1.269.320	$ 164.194	$ -	$ -	$ 7.293.850	7.293.850
with carrier-to-carrier	$ 574.515	$ 1.906.421	$ 1.241.793	$ 1.966.455	$ 172.283	$ 1.269.936	$ 164.269	$ -	$ -	$ 7.295.852	7.295.852
Distribution (DLC)											
Annual Capital Cost	$ 4.936.203	$ 5.864.289	$ 106.089	$ 315.859	$ -	$ -	$ -	$ -	$ -	$ 11.222.440	11.222.440
Network Expenses	$ 1.537.071	$ 1.793.011	$ 31.087	$ 90.251	$ -	$ -	$ -	$ -	$ -	$ 3.451.419	3.451.419
Direct expense	$ 6.473.273	$ 7.657.300	$ 137.176	$ 406.109	$ -	$ -	$ -	$ -	$ -	$ 14.673.858	14.673.858
Investment	$ 32.173.667	$ 38.593.832	$ 704.384	$ 2.104.428	$ -	$ -	$ -	$ -	$ -	$ 73.578.311	73.578.311
Support, Overhead and direct per line	$ 154.424	$ 514.024	$ 336.827	$ 535.262	$ 46.779	$ 346.337	$ 44.971	$ -	$ -	$ 1.978.624	1.978.624
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 6.627.697	$ 8.171.324	$ 474.003	$ 941.372	$ 46.779	$ 346.337	$ 44.971	$ -	$ -	$ 16.652.482	16.652.482
with carrier-to-carrier	$ 6.633.541	$ 8.184.764	$ 474.549	$ 943.827	$ 46.779	$ 346.337	$ 44.971	$ -	$ -	$ 16.674.868	16.674.868
Distribution (non-DLC)											
Annual Capital Cost	$ -	$ 1.168.889	$ 1.145.247	$ 1.206.796	$ 114.034	$ 782.832	$ 85.700	$ -	$ -	$ 4.503.499	4.503.499
Network Expenses	$ -	$ 353.882	$ 333.809	$ 343.265	$ 31.023	$ 181.126	$ 15.779	$ -	$ -	$ 1.258.884	1.258.884
Direct expense	$ -	$ 1.522.771	$ 1.479.056	$ 1.550.061	$ 145.057	$ 963.958	$ 101.479	$ -	$ -	$ 5.762.383	5.762.383
Investment	$ -	$ 7.685.691	$ 7.607.190	$ 8.040.945	$ 764.120	$ 5.358.195	$ 601.101	$ -	$ -	$ 30.055.242	30.055.242
Support, Overhead and direct per line	60641.75267	201855.7661	132271.1237	210196.0449	18370.0926	136005.4073	17659.8254	0	0	$ 777.000	777.000
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 60.642	$ 1.724.627	$ 1.611.327	$ 1.760.257	$ 183.427	$ 1.099.964	$ 119.139	$ -	$ -	$ 6.539.303	6.539.303
with carrier-to-carrier	$ 60.642	$ 1.727.300	$ 1.617.208	$ 1.770.011	$ 184.519	$ 1.108.632	$ 120.063	$ -	$ -	$ 6.568.375	6.568.375
Distribution (all)											
Annual Capital Cost	$ 4.936.203	$ 7.033.178	$ 1.251.337	$ 1.522.655	$ 114.034	$ 782.832	$ 85.700	$ -	$ -	$ 15.726.938	15.726.938
Network Expenses	$ 1.537.071	$ 2.146.893	$ 364.895	$ 433.516	$ 31.023	$ 181.126	$ 15.779	$ -	$ -	$ 4.710.303	4.710.303
Direct expense	$ 6.473.273	$ 9.180.071	$ 1.616.232	$ 1.956.170	$ 145.057	$ 963.958	$ 101.479	$ -	$ -	$ 20.436.241	20.436.241
Investment	$ 32.173.667	$ 46.279.523	$ 8.311.574	$ 10.145.374	$ 764.120	$ 5.358.195	$ 601.101	$ -	$ -	$ 103.631.554	103.631.554
Support, Overhead and direct per line	$ 215.065	$ 715.880	$ 469.096	$ 745.458	$ 85.149	$ 482.342	$ 62.630	$ -	$ -	$ 2.755.624	2.755.624
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 6.688.339	$ 9.895.951	$ 2.085.330	$ 2.701.628	$ 210.207	$ 1.446.300	$ 164.110	$ -	$ -	$ 23.191.865	23.191.865
with carrier-to-carrier	$ 6.694.183	$ 9.912.064	$ 2.091.757	$ 2.713.938	$ 211.298	$ 1.454.969	$ 165.033	$ -	$ -	$ 23.243.243	23.243.243
Concentrator (DLC)											
Annual Capital Cost	$ 924.348	$ 1.070.481	$ 55.717	$ 146.870	$ -	$ -	$ -	$ -	$ -	$ 2.197.426	2.197.426
Network Expenses	$ 109.520	$ 128.123	$ 6.705	$ 17.828	$ -	$ -	$ -	$ -	$ -	$ 262.176	262.176
Direct expense	$ 1.033.868	$ 1.198.614	$ 62.423	$ 164.697	$ -	$ -	$ -	$ -	$ -	$ 2.459.602	2.459.602
Investment	$ 5.403.900	$ 6.261.655	$ 326.008	$ 859.742	$ -	$ -	$ -	$ -	$ -	$ 12.851.303	12.851.303
Support, Overhead and direct per line	25884.19473	86159.65448	56458.29894	89719.59118	7841.04782	58052.23188	7537.878819	0	0	$ 331.653	331.653
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 1.058.752	$ 1.284.774	$ 118.881	$ 254.417	$ 7.841	$ 58.052	$ 7.538	$ -	$ -	$ 2.791.255	2.791.255
with carrier-to-carrier	$ 1.060.685	$ 1.286.878	$ 119.129	$ 255.453	$ 7.841	$ 58.052	$ 7.538	$ -	$ -	$ 2.795.577	2.795.577
Concentrator (non-DLC)											
Annual Capital Cost	$ -	$ 7.070	$ 8.707	$ 11.773	$ 1.184	$ 8.533	$ 1.184	$ -	$ -	$ 38.451	38.451
Network Expenses	$ -	$ 2.479	$ 3.053	$ 4.128	$ 415	$ 2.992	$ 415	$ -	$ -	$ 13.482	13.482
Direct expense	$ -	$ 9.549	$ 11.760	$ 15.900	$ 1.599	$ 11.525	$ 1.599	$ -	$ -	$ 51.933	51.933
Investment	$ -	$ 45.636	$ 56.199	$ 75.988	$ 7.644	$ 55.079	$ 7.644	$ -	$ -	$ 248.190	248.190
Support, Overhead and direct per line	546.5304952	1819.214285	1192.086303	1894.380414	165.5594597	1225.741331	159.1582152	0	0	$ 7.003	7.003
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 547	$ 11.168	$ 12.952	$ 17.795	$ 1.785	$ 12.751	$ 1.759	$ -	$ -	$ 58.936	58.936
with carrier-to-carrier	$ 547	$ 11.385	$ 12.998	$ 17.895	$ 1.777	$ 12.855	$ 1.773	$ -	$ -	$ 58.230	58.230
Concentrator (all)											
Annual Capital Cost	$ 924.348	$ 1.077.562	$ 64.424	$ 158.642	$ 1.184	$ 8.533	$ 1.184	$ -	$ -	$ 2.235.877	2.235.877
Network Expenses	$ 109.520	$ 130.602	$ 9.758	$ 21.955	$ 415	$ 2.992	$ 415	$ -	$ -	$ 275.658	275.658
Direct expense	$ 1.033.868	$ 1.208.164	$ 74.182	$ 180.597	$ 1.599	$ 11.525	$ 1.599	$ -	$ -	$ 2.511.535	2.511.535
Investment	$ 5.403.900	$ 6.307.291	$ 382.205	$ 935.730	$ 7.644	$ 55.079	$ 7.644	$ -	$ -	$ 13.099.493	13.099.493
Support, Overhead and direct per line	$ 26.431	$ 87.979	$ 57.650	$ 91.614	$ 8.007	$ 59.278	$ 7.697	$ -	$ -	$ 338.656	338.656
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 1.060.299	$ 1.296.142	$ 131.833	$ 272.211	$ 9.608	$ 70.803	$ 9.297	$ -	$ -	$ 2.850.191	2.850.191
with carrier-to-carrier	$ 1.061.232	$ 1.298.263	$ 132.128	$ 273.348	$ 9.618	$ 70.907	$ 9.311	$ -	$ -	$ 2.854.807	2.854.807
Feeder (DLC)											
Annual Capital Cost	$ 884.918	$ 815.303	$ 17.715	$ 51.204	$ -	$ -	$ -	$ -	$ -	$ 1.769.141	1.769.141
Network Expenses	$ 52.512	$ 84.841	$ 1.238	$ 5.049	$ -	$ -	$ -	$ -	$ -	$ 123.641	123.641
Direct expense	$ 937.431	$ 880.144	$ 18.953	$ 56.254	$ -	$ -	$ -	$ -	$ -	$ 1.892.782	1.892.782
Investment	$ 6.215.999	$ 5.701.859	$ 123.805	$ 358.626	$ -	$ -	$ -	$ -	$ -	$ 12.398.289	12.398.289
Support, Overhead and direct per line	19919.12226	66303.98867	43447.3703	69043.63077	6034.062412	44673.97818	5800.759472	0	0	$ 255.223	255.223
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 957.350	$ 946.448	$ 62.401	$ 125.297	$ 6.034	$ 44.674	$ 5.801	$ -	$ -	$ 2.148.005	2.148.005
with carrier-to-carrier	$ 958.197	$ 947.993	$ 62.476	$ 125.651	$ 6.034	$ 44.674	$ 5.801	$ -	$ -	$ 2.150.825	2.150.825
Feeder (non-DLC)											
Annual Capital Cost	$ -	$ 209.053	$ 138.111	$ 208.381	$ 10.904	$ 141.715	$ 8.931	$ -	$ -	$ 717.095	717.095
Network Expenses	$ -	$ 43.992	$ 27.279	$ 39.178	$ 1.846	$ 30.590	$ 1.802	$ -	$ -	$ 144.687	144.687
Direct expense	$ -	$ 253.046	$ 165.390	$ 247.558	$ 12.750	$ 172.305	$ 10.733	$ -	$ -	$ 861.782	861.782
Investment	$ -	$ 1.410.903	$ 929.612	$ 1.408.922	$ 73.722	$ 959.153	$ 60.683	$ -	$ -	$ 4.842.996	4.842.996
Support, Overhead and direct per line	9069.163568	30188.16345	19781.55979	31435.47521	2747.30474	20340.03357	2641.082061	0	0	$ 116.203	116.203
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 9.069	$ 283.234	$ 185.171	$ 278.995	$ 15.497	$ 192.645	$ 13.374	$ -	$ -	$ 977.985	977.985
with carrier-to-carrier	$ 9.069	$ 283.878	$ 185.829	$ 280.553	$ 15.503	$ 194.195	$ 13.472	$ -	$ -	$ 982.388	982.388

Network-Related Expenses

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-450 lines/sq mi	450-850 lines/sq mi	850-2550 lines/sq mi	2550-8000 lines/sq mi	8000-10000 lines/sq mi	>10000 lines/sq mi	Totals	
Feeder (all)											
Annual Capital Cost	$ 884 919	$ 1 024 356	$ 155 826	$ 259 586	$ 10 904	$ 141 715	$ 8 931	$ -	$ -	$ 2 486 237	2 486 237
Network Expenses	$ 52 512	$ 106 833	$ 28 517	$ 44 227	$ 1 846	$ 30 590	$ 1 802	$ -	$ -	$ 266 328	266 328
Direct expense	$ 937 431	$ 1 133 189	$ 184 343	$ 303 813	$ 12 750	$ 172 305	$ 10 733	$ -	$ -	$ 2 754 564	2 754 564
Investment	$ 6 215 999	$ 7 112 762	$ 1 053 417	$ 1 765 549	$ 73 722	$ 959 153	$ 60 683	$ -	$ -	$ 17 241 285	17 241 285
Support Overhead and direct per line	$ 28 988	$ 96 492	$ 63 229	$ 100 478	$ 8 781	$ 85 014	$ 8 442	$ -	$ -	$ 371 426	371 426
Support & Overhead per direct exp	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total	$ 968 419	$ 1 229 681	$ 247 572	$ 404 292	$ 21 531	$ 237 319	$ 19 175	$ -	$ -	$ 3 125 990	3 125 990
with carrier to carrier	$ 967 268	$ 1 231 870	$ 248 305	$ 406 204	$ 21 627	$ 238 869	$ 19 273	$ -	$ -	$ 3 133 213	3 133 213
End Office Switching											
Annual Capital Cost	$ 425 297	$ 1 206 204	$ 770 074	$ 809 165	$ 69 958	$ 347 445	$ 43 468	$ -	$ -	$ 3 671 608	3 671 608
Network Expenses	$ 183 810	$ 521 247	$ 333 213	$ 353 222	$ 30 090	$ 152 194	$ 19 096	$ -	$ -	$ 1 592 873	1 592 873
Direct expense, w/ per line amt	$ 609 107	$ 1 727 451	$ 1 103 287	$ 1 162 387	$ 100 047	$ 499 639	$ 62 564	$ -	$ -	$ 5 264 480	5 264 480
Investment	$ 3 141 967	$ 8 905 734	$ 5 688 703	$ 5 977 489	$ 516 696	$ 2 564 995	$ 320 649	$ -	$ -	$ 27 116 232	27 116 232
Support expenses	$ 82 132	$ 232 930	$ 148 787	$ 156 736	$ 13 490	$ 67 371	$ 8 436	$ -	$ -	$ 709 883	709 883
Subtotal, with misc apl	$ 691 238	$ 1 960 380	$ 1 252 054	$ 1 319 123	$ 113 537	$ 567 010	$ 71 000	$ -	$ -	$ 5 974 343	5 974 343
Total, with var overhead	$ 691 238	$ 1 960 380	$ 1 252 054	$ 1 319 123	$ 113 537	$ 567 010	$ 71 000	$ -	$ -	$ 5 974 343	5 974 343
with carrier-to-carrier	$ 691 788	$ 1 963 412	$ 1 256 441	$ 1 326 438	$ 114 290	$ 571 503	$ 71 569	$ -	$ -	$ 5 995 442	5 995 442
Signaling											
Annual Capital Cost	$ 42 715	$ 142 250	$ 43 589	$ 31,177	$ 2 747	$ 16 202	$ 2 199	$ -	$ -	$ 280 880	280 880
Network Expenses	$ 14 179	$ 47 217	$ 15 286	$ 12 276	$ 1 080	$ 6 690	$ 899	$ -	$ -	$ 97 627	97 627
Direct expense, w/ per line amt	$ 56 894	$ 189 467	$ 58 876	$ 43,452	$ 3 827	$ 22 893	$ 3 098	$ -	$ -	$ 378 507	378 507
Investment	$ 302 910	$ 1 008 742	$ 311 874	$ 227 803	$ 20 046	$ 119 336	$ 16 167	$ -	$ -	$ 2 006 878	2 006 878
Support expenses	$ 7 672	$ 25 548	$ 7 939	$ 5 859	$ 516	$ 3 087	$ 418	$ -	$ -	$ 51 038	51 038
Subtotal, with misc apl	$ 64 566	$ 215 015	$ 66 815	$ 49 311	$ 4 342	$ 25 980	$ 3 516	$ -	$ -	$ 429 545	429 545
Total, with var overhead	$ 64 566	$ 215 015	$ 66 815	$ 49 311	$ 4 342	$ 25 980	$ 3 516	$ -	$ -	$ 429 545	429 545
with carrier-to-carrier	$ 64 617	$ 215 348	$ 67 049	$ 49 585	$ 4 371	$ 26 185	$ 3 544	$ -	$ -	$ 430 699	430 699
Dedicated Transport											
Annual Capital Cost	$ 451 429	$ 1 471 017	$ 701 924	$ 472 245	$ 33 469	$ 202 605	$ 43 249	$ -	$ -	$ 3 375 938	3 375 938
Network Expenses	$ 24 421	$ 79 659	$ 37 984	$ 25 534	$ 1 811	$ 10 896	$ 2 323	$ -	$ -	$ 182 628	182 628
Direct expense, w/ per line amt	$ 475 849	$ 1 550 876	$ 739 908	$ 497 780	$ 35 280	$ 213 501	$ 45 572	$ -	$ -	$ 3 558 566	3 558 566
Investment	$ 3 185 145	$ 10 377 991	$ 4 952,362	$ 3 332 025	$ 236 151	$ 1 429 901	$ 305 260	$ -	$ -	$ 23 818 834	23 818 834
Support expenses	$ 64 164	$ 209 093	$ 99 769	$ 67 121	$ 4 757	$ 28 789	$ 6 145	$ -	$ -	$ 479 837	479 837
Subtotal, with misc apl	$ 540 013	$ 1 759 769	$ 839 678	$ 564 900	$ 40 037	$ 242 290	$ 51 717	$ -	$ -	$ 4 038 403	4 038 403
Total, with var overhead	$ 540 013	$ 1 759 769	$ 839 678	$ 564 900	$ 40 037	$ 242 290	$ 51 717	$ -	$ -	$ 4 038 403	4 038 403
with carrier to carrier	$ 540 443	$ 1,762 491	$ 842 620	$ 568,033	$ 40 302	$ 244 210	$ 52 132	$ -	$ -	$ 4 050 229	4 050 229
Dedicated Transport Transmission											
Annual Capital Cost	$ 52 606	$ 133 566	$ 108 363	$ 124 799	$ 7 861	$ 55 334	$ 6 967	$ -	$ -	$ 489 495	489 495
Network Expenses	$ 8 146	$ 15 605	$ 12 661	$ 14 581	$ 918	$ 6 465	$ 814	$ -	$ -	$ 57 191	57 191
Direct expense, w/ per line amt	$ 58 752	$ 149 171	$ 121 024	$ 139 380	$ 8 779	$ 61 799	$ 7 781	$ -	$ -	$ 546 686	546 686
Investment	$ 307 316	$ 780 272	$ 633 043	$ 729 058	$ 45 922	$ 323 251	$ 40 700	$ -	$ -	$ 2 859 560	2 859 560
Support expenses	$ 7 922	$ 20 114	$ 16 319	$ 18 794	$ 1 184	$ 8 333	$ 1 049	$ -	$ -	$ 73 715	73 715
Subtotal, with misc apl	$ 66 674	$ 169 285	$ 137 343	$ 158 174	$ 9 963	$ 70 132	$ 8 830	$ -	$ -	$ 620 401	620 401
Total, with var overhead	$ 66 674	$ 169 285	$ 137 343	$ 158 174	$ 9 963	$ 70 132	$ 8 830	$ -	$ -	$ 620 401	620 401
with carrier to carrier	$ 66 727	$ 169 547	$ 137 824	$ 159 051	$ 10 029	$ 70 687	$ 8 901	$ -	$ -	$ 622 787	622 787
Direct Transport											
Annual Capital Cost	$ 361 429	$ 1 195 617	$ 509 740	$ 291 936	$ 22 195	$ 111 566	$ 23 754	$ -	$ -	$ 2 516 238	2 516 238
Network Expenses	$ 19 553	$ 64 757	$ 27 586	$ 15 786	$ 1 201	$ 6 000	$ 1 276	$ -	$ -	$ 136 159	136 159
Direct expense, w/ per line amt	$ 380 982	$ 1 260 374	$ 537 326	$ 307 722	$ 23 396	$ 117 566	$ 25 011	$ -	$ -	$ 2 652 397	2 652 397
Investment	$ 2 550 119	$ 8 434 921	$ 3 596 405	$ 2 059 815	$ 156 605	$ 787 380	$ 167 665	$ -	$ -	$ 17 752 911	17 752 911
Support expenses	$ 51 372	$ 169 949	$ 72 453	$ 41 493	$ 3 155	$ 15 853	$ 3 375	$ -	$ -	$ 357 649	357 649
Subtotal, with misc apl	$ 432 354	$ 1 430 323	$ 609 779	$ 349 215	$ 26 551	$ 133 418	$ 28 406	$ -	$ -	$ 3 010 047	3 010 047
Total, with var overhead	$ 432 354	$ 1 430 323	$ 609 779	$ 349 215	$ 26 551	$ 133 418	$ 28 406	$ -	$ -	$ 3 010 047	3 010 047
with carrier to-carrier	$ 432 698	$ 1 432 538	$ 611 916	$ 351 152	$ 26 727	$ 134 476	$ 28 633	$ -	$ -	$ 3 018 137	3 018 137
Direct Transport Transmission											
Annual Capital Cost	$ 32 969	$ 80 680	$ 63 823	$ 57 206	$ 3 466	$ 19 892	$ 2 436	$ -	$ -	$ 260 473	260 473
Network Expenses	$ 3 852	$ 9 426	$ 7 457	$ 6 684	$ 405	$ 2 324	$ 285	$ -	$ -	$ 30 433	30 433
Direct expense, w/ per line amt	$ 36 821	$ 90,107	$ 71,280	$ 63 890	$ 3 871	$ 22 216	$ 2 720	$ -	$ -	$ 290 906	290 906
Investment	$ 192 603	$ 471 322	$ 372 848	$ 334 189	$ 20 247	$ 116 207	$ 14 228	$ -	$ -	$ 1 521 646	1 521 646
Support expenses	$ 4 985	$ 12,150	$ 9 611	$ 8 615	$ 522	$ 2 996	$ 367	$ -	$ -	$ 39 226	39 226
Subtotal, with misc apl	$ 41,786	$ 102 257	$ 80 892	$ 72,505	$ 4 393	$ 25 212	$ 3 087	$ -	$ -	$ 330 131	330 131
Total, with var overhead	$ 41,786	$ 102 257	$ 80 892	$ 72 505	$ 4,393	$ 25 212	$ 3 087	$ -	$ -	$ 330 131	330 131
with carrier-to-carrier	$ 41,820	$ 102,415	$ 81,175	$ 72,907	$ 4 422	$ 25,412	$ 3 112	$ -	$ -	$ 331 262	331 262
Common Transport											
Annual Capital Cost	$ 254 413	$ 838,470	$ 332 416	$ 179 989	$ 14,092	$ 64 370	$ 13 556	$ -	$ -	$ 1 697 305	1 697 305
Network Expenses	$ 13,763	$ 45 415	$ 17 990	$ 9 733	$ 782	$ 3 462	$ 728	$ -	$ -	$ 91 855	91 855
Direct expense, w/ per line amt	$ 268 176	$ 883,885	$ 350 407	$ 189,722	$ 14 855	$ 67 832	$ 14 284	$ -	$ -	$ 1 789 160	1 789 160
Investment	$ 1 795,055	$ 5 915,266	$ 2,345 308	$ 1 269,943	$ 99,432	$ 454 289	$ 95 679	$ -	$ -	$ 11 974 970	11 974 970
Support expenses	$ 36,161	$ 119 183	$ 47 248	$ 25 582	$ 2 003	$ 9 146	$ 1 926	$ -	$ -	$ 241 250	241 250
Subtotal, with misc apl	$ 304 337	$ 1 003,069	$ 397,655	$ 215,304	$ 16 858	$ 76 978	$ 16 210	$ -	$ -	$ 2 030 410	2,030,410
Total, with var overhead	$ 304 337	$ 1 003,069	$ 397,655	$ 215,304	$ 16 858	$ 76 978	$ 16 210	$ -	$ -	$ 2 030 410	2 030 410
with carrier-to-carrier	$ 304,579	$ 1,004,820	$ 399,049	$ 216,498	$ 16,949	$ 77,588	$ 16 340	$ -	$ -	$ 2 035,843	2 035,843
Common Transport Transmission											
Annual Capital Cost	$ 22,475	$ 54 839	$ 41 512	$ 35,370	$ 2 201	$ 11 668	$ 1 390	$ -	$ -	$ 169 454	169 454
Network Expenses	$ 2 626	$ 6 407	$ 4 850	$ 4,133	$ 257	$ 1 363	$ 162	$ -	$ -	$ 19 798	19 798
Direct expense, w/ per line amt	$ 25 101	$ 61 246	$ 46,362	$ 39,502	$ 2 458	$ 13 031	$ 1 552	$ -	$ -	$ 189 252	189 252
Investment	$ 131 298	$ 320,361	$ 242 506	$ 206 626	$ 12,855	$ 68 160	$ 8 120	$ -	$ -	$ 989 924	989 924
Support expenses	$ 3 385	$ 8 258	$ 6,251	$ 5,327	$ 331	$ 1,757	$ 209	$ -	$ -	$ 25 519	25 519
Subtotal, with misc apl	$ 28 486	$ 69 504	$ 52,613	$ 44 829	$ 2,789	$ 14 788	$ 1 762	$ -	$ -	$ 214 771	214 771
Total, with var overhead	$ 28 486	$ 69 504	$ 52,613	$ 44 829	$ 2,789	$ 14 788	$ 1 762	$ -	$ -	$ 214 771	214 771
with carrier to-carrier	$ 28 508	$ 69 612	$ 52,796	$ 45,078	$ 2,808	$ 14 905	$ 1 776	$ -	$ -	$ 215 484	215 484

Network-Related Expenses	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals	
Tandem Switching											
Annual Capital Cost	$ 30 985	$ 102 768	$ 66 843	$ 105 192	$ 9,151	$ 87,231	$ 8,730	$ -	$ -	$ 380 900	380 900
Network Expenses	$ 18 255	$ 60 613	$ 39 512	$ 62 364	$ 5,433	$ 40,008	$ 5 195	$ -	$ -	$ 231 380	231 380
Direct expense, w/ per-line amt	$ 49 240	$ 163 380	$ 106 355	$ 167 556	$ 14,584	$ 107,240	$ 13 925	$ -	$ -	$ 622 280	622 280
Investment	$ 230 781	$ 765 451	$ 497 892	$ 783 685	$ 68,170	$ 500 950	$ 65 036	$ -	$ -	$ 2,911,764	2,911,764
Support expenses	$ 6 640	$ 22 030	$ 14 341	$ 22 583	$ 1,967	$ 14,460	$ 1,878	$ -	$ -	$ 83 900	83,900
Subtotal, with misc opt	$ 55 880	$ 185 410	$ 120 696	$ 190,149	$ 16 551	$ 121,700	$ 15 803	$ -	$ -	$ 706 199	706 199
Total, with var overhead	$ 55 880	$ 185 410	$ 120 696	$ 190,149	$ 16,551	$ 121,700	$ 15 803	$ -	$ -	$ 706 199	706 199
with carrier-to-carrier	$ 55 924	$ 185 697	$ 121,119	$ 191,204	$ 16,660	$ 122,684	$ 15 930	$ -	$ -	$ 709 198	709,198
Operator Systems											
Annual Capital Cost	$ 77 783	$ 254 123	$ 104 788	$ 60,498	$ 4,938	$ 23 071	$ 4 334	$ -	$ -	$ 529 515	529,515
Network Expenses	$ 25 786	$ 84 320	$ 35 773	$ 23,413	$ 1,938	$ 10,076	$ 1,731	$ -	$ -	$ 183,037	183,037
Direct expense, w/ per-line amt	$ 103 569	$ 338 444	$ 140 541	$ 83,910	$ 6,874	$ 33 149	$ 6 065	$ -	$ -	$ 712 551	712,551
Investment	$ 543 545	$ 1,775 578	$ 729 025	$ 412,799	$ 33,617	$ 154 010	$ 29 416	$ -	$ -	$ 3,677 992	3,677,992
Support expenses	$ 13 065	$ 45 636	$ 18 951	$ 11,314	$ 927	$ 4,470	$ 818	$ -	$ -	$ 96,000	96 000
Subtotal, with misc opt	$ 117 534	$ 384 080	$ 159 491	$ 95,225	$ 7,800	$ 37,619	$ 6 883	$ -	$ -	$ 808 632	808 632
Total, with var overhead	$ 117 534	$ 384 080	$ 159 491	$ 95,225	$ 7,800	$ 37,619	$ 6 883	$ -	$ -	$ 808 632	808 632
with carrier-to-carrier	$ 117,627	$ 384,674	$ 160 050	$ 95,753	$ 7,852	$ 37,917	$ 6,938	$ -	$ -	$ 810 811	810 811
Public Telephone											
Annual Capital Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Network Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Direct expense, w/ per-line amt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Investment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Support expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Subtotal, with misc opt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Total, with var overhead	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
with carrier-to-carrier	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Totals											
Annual Capital Cost	$ 8,531,455	$ 14,722,408	$ 4 278 881	$ 4 204 009	$ 304,893	$ 1,911,940	$ 253 143	$ -	$ -	$ 34,206,529	34,206 529
Network Expenses	$ 2 016 649	$ 3 337 125	$ 945 048	$ 1 041,699	$ 78,470	$ 403,188	$ 51,526	$ -	$ -	$ 7,933,685	7,933,685
Total	$ 10 548 104	$ 18 059 533	$ 5 223 729	$ 5 245 709	$ 383,363	$ 2,375,107	$ 304 669	$ -	$ -	$ 42,140,214	42,140,214
Investment	$ 56 393,015	$ 99,150,889	$ 29 530,527	$ 28 798,536	$ 2,111,358	$ 13,272,708	$ 1,779,114	$ -	$ -	$ 231,034,149	231,034,149
Supporting Network Expenses											
Capital Cost - Gent Support	$ 541,797	$ 952,593	$ 283,715	$ 278,663	$ 20,285	$ 127,516	$ 17,093	$ -	$ -	$ 2,219,663	2,219,663
Network Operations	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ -	$ -	$ 0	0
Network Support	$ 41 984	$ 71,848	$ 20,782	$ 20,869	$ 1,525	$ 9,449	$ 1,212	$ -	$ -	$ 167,650	167,650
Other Taxes	$ 597,794	$ 1,024 805	$ 296 856	$ 297,671	$ 21,758	$ 134,895	$ 17,343	$ -	$ -	$ 2,391,120	2,391,120
Misc Expenses	$ 226 219	$ 387 312	$ 112 030	$ 112 502	$ 8,222	$ 50 937	$ 6 534	$ -	$ -	$ 903,756	903,756
Subtotal	$ 1,407,774	$ 2,436 557	$ 713 383	$ 707 705	$ 51,788	$ 322,800	$ 42,182	$ -	$ -	$ 5,682,189	5,682,189
Carrier carrier customer svc	$ 9,523	$ 31,699	$ 20 772	$ 33,009	$ 2,885	$ 21,358	$ 2,773	$ -	$ -	$ 122,020	122,020
Interoffice/Switching Net Ops	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
Interoffice/Sw Exp	$ 1,960,923	$ 6,075,758	$ 3,134,825	$ 2,611,391	$ 207,095	$ 1,125,716	$ 176,526	$ -	$ -	$ 15,292,234	15,292,234
Total Network Costs	$ 11,955,678	$ 20,496,090	$ 5,937,111	$ 5,953,413	$ 435,153	$ 2,697,907	$ 346,850	$ -	$ -	$ 47,822,402	47,822,402
Other costs											
Other Taxes	$ 597,794	$ 1,024,805	$ 296,856	$ 297,671	$ 21,758	$ 134,895	$ 17,343	$ -	$ -	$ 2,391,120	2,391,120
Monthly Cost Factors											
Loop	0 01774	0 02010	0 03092	0 03368	0 03323	0 03239	0 03539			0 02226	0
Port	0 00378	0 00444	0 00455	0 00689	0 00696	0 01038	0 01079			0 00561	0
Switching	0 00426	0 00501	0 00514	0 00777	0 00785	0 01171	0 01217			0 00633	0
Signaling	0 00297	0 00297	0 00629	0 01369	0 01359	0 01690	0 01620			0 00574	0
Transport	0 00182	0 00188	0 00264	0 00608	0 00724	0 00931	0 00639			0 00317	0
Billing/Bill Inquiries (per line)	-	-	-	-	-	-	-			-	-
Directory Listing (per line)	-	-	-	-	-	-	-			-	-
LNP Expense (per line)	-	-	-	-	-	-	-			-	-
Inverse Carrier to Carrier Expense Factors	99 9205%	99 8456%	99 8508%	99 4486%	99 3413%	99 2138%	99 2043%	0 0000%	0 0000%	99 7318%	

Use this sheet to vary the proportion of expenses assigned to loop-related network elements on the basis of lines and on the basis of direct expenses, respectively. Change only the % assigned "per line" -- the "per direct cost" will be calculated.

	Total Annual Amount assigned to loops	% to be assigned per line	% to be assigned per direct cost	Annual Amount to be assigned per line	Annual Amount to be assigned per direct cost
General Support - Loops					
Furniture - Capital Costs	$ 54,523	100%	0%	$ 54,523	$ -
Furniture - Expenses	$ 35,268	100%	0%	$ 35,268	$ -
Office Equipment - Capital Costs	$ 191,147	100%	0%	$ 191,147	$ -
Office Equipment - Expenses	$ 103,291	100%	0%	$ 103,291	$ -
General Purpose Computer - Capital Costs	$ 192,325	100%	0%	$ 192,325	$ -
General Purpose Computer - Expenses	$ 74,089	100%	0%	$ 74,089	$ -
Motor Vehicles - Capital Costs	$ 245,822	100%	0%	$ 245,822	$ -
Motor Vehicles - Expenses	$ 55,229	100%	0%	$ 55,229	$ -
Buildings - Capital Costs	$ 514,030	100%	0%	$ 514,030	$ -
Buildings - Expenses	$ 347,863	100%	0%	$ 347,863	$ -
Garage Work Eqpt. - Capital Costs	$ 1,862	100%	0%	$ 1,862	$ -
Garage Work Eqpt. - Expenses	$ 460	100%	0%	$ 460	$ -
Other Work Eqpt. - Capital Costs	$ 176,929	100%	0%	$ 176,929	$ -
Other Work Eqpt. - Expenses	$ 48,287	100%	0%	$ 48,287	$ -
Total General Support	$ 2,041,126			$ 2,041,126	$ -
Network Operations	$ 0	100%	0%	$ 0	$ -
Other Taxes	$ 1,482,977	100%	0%	$ 1,482,977	$ -
Variable Overhead	$ -	100%	0%	$ -	$ -
Totals	$ 3,524,103			$ 3,524,103	$ -

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
Direct Costs										
Loop-related direct costs	$ 8,483,613	$ 11,645,331	$ 1,948,363	$ 2,550,408	$ 169,394	$ 1,216,242	$ 122,077	$ -	$ -	$ 26,135,429
Non-Loop-related direct costs	$ 2,064,491	$ 6,414,201	$ 3,275,366	$ 2,695,301	$ 213,969	$ 1,158,865	$ 182,592	$ -	$ -	$ 16,004,785
Total	$ 10,548,104	$ 18,059,533	$ 5,223,729	$ 5,245,709	$ 383,363	$ 2,375,107	$ 304,669	$ -	$ -	$ 42,140,214
Loop Fraction	80.43%	64.48%	37.30%	48.62%	44.19%	51.21%	40.07%	0.00%	0.00%	62.02%
Network Operations	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ -	$ -	$ 0

Exp Assignment

	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs		
General Support - Totals					
Furniture - Capital Costs	$ 87,912	$ 54,523	$ 33,389		
Furniture - Expenses	$ 56,865	$ 35,268	$ 21,597		
Office Equipment - Capital Costs	$ 308,202	$ 191,147	$ 117,055		
Office Equipment - Expenses	$ 166,545	$ 103,291	$ 63,253		$ 2,219,663
General Purpose Computer - Capital Costs	$ 310,100	$ 192,325	$ 117,776		$ 1,071,405
General Purpose Computer - Expenses	$ 119,459	$ 74,089	$ 45,370		
Motor Vehicles - Capital Costs	$ 396,358	$ 245,822	$ 150,536		
Motor Vehicles - Expenses	$ 89,050	$ 55,229	$ 33,821		
Buildings - Capital Costs	$ 828,812	$ 514,030	$ 314,781		
Buildings - Expenses	$ 560,886	$ 347,863	$ 213,024		
Garage Work Eqpt - Capital Costs	$ 3,002	$ 1,862	$ 1,140		
Garage Work Eqpt - Expenses	$ 742	$ 460	$ 282		
Other Work Eqpt - Capital Costs	$ 285,277	$ 176,929	$ 108,348		
Other Work Eqpt. - Expenses	$ 77,858	$ 48,287	$ 29,570		
Total General Support	$ 3,291,069	$ 2,041,126	$ 1,249,943		
Network Operations	$ 0	$ 0	$ 0		
Other Taxes Calculation					
Total Direct Costs	$ 42,140,214	$ 26,135,429	$ 16,004,785	$ 42,140,214	
Total Network Operations	$ 0	$ 0	$ 0	$ 0	
Total General Support	$ 3,291,069	$ 2,041,126	$ 1,249,943	$ 3,462,526	
Total	$ 45,431,282	$ 28,176,555	$ 17,254,727		
Other Taxes	$ 2,391,120	$ 1,482,977	$ 908,144	$ 5,853,646	
Total Expenses and Other Taxes	$ 47,822,402	$ 29,659,532	$ 18,162,871		
Variable Overhead Calculation					
Variable Overhead	$ -	$ -	$ -		
Total Cost with Variable Overhead	47,822,402	29,659,532	18,162,871		

UNE Expense Asssignment			Totals
NID			
	per line cost	$	58,398
	per direct cost	$	-
	total	$	58,398
Distribution (DLC)			
	per line cost	$	1,978,624
	per direct cost	$	-
	total	$	1,978,624
Distribution (non-DLC)			
	per line cost	$	777,000
	per direct cost	$	-
	total	$	777,000
Concentrator (DLC)			
	per line cost	$	331,653
	per direct cost	$	-
	total	$	331,653
Concentrator (non-DLC)			
	per line cost	$	7,003
	per direct cost	$	-
	total	$	7,003
Feeder (DLC)			
	per line cost	$	255,223
	per direct cost	$	-
	total	$	255,223
Feeder (non-DLC)			
	per line cost	$	116,203
	per direct cost	$	-
	total	$	116,203
End Office Switching		$	5,974,343
Signaling		$	429,545
Dedicated Transport		$	4,038,403
Dedicated Transport Transmission		$	620,401
Direct Transport		$	3,010,047
Direct Transport Transmission		$	330,131
Common Transport		$	2,030,410
Common Transport Transmission		$	214,771
Tandem Switching		$	706,189
Operator Systems		$	808,632
Public Telephone		$	-

Use this sheet to enter per-loop expense amounts for each expense category. An amount may be entered for any blue input field. Any amount entered in the general support, network operations, other taxes, or variable overhead categories will be assigned to the "NID" network element on a per-line basis, ensuring that all loops receive the same amount. Please note that all blue input fields are per-loop, annual amounts. The total annual amount in each density zone is calculated by the worksheet.

Per-Loop Expense Amounts

	0-5 lines/sq mi	5-100 lines/sq mi	100-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	2550-5000 lines/sq mi	5000-10000 lines/sq mi	>10000 lines/sq mi	Totals
General Support										
Furniture - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Furniture - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Office Equipment - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Office Equipment - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Purpose Computer - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Purpose Computer - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Motor Vehicles - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Motor Vehicles - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Buildings - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Buildings - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Garage Work Equip. - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Garage Work Equip. - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Work Equip. - Capital Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Work Equip. - Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total General Support	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Network Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Taxes	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Variable Overhead	$4.21149	$4.21149	$4.21149	$4.21149	$4.21149	$4.21149	$4.21149	$4.21149	$4.21149	$ 848
Totals	$ 94	$ 94	$ 94	$ 94	$ 94	$ 94	$ 94	$ 94	$ 94	$ 848
NID										
Per-Loop Amount	$	$	$	$	$	$	$	$	$	
Total Per-Loop Amount	$ 530,882	$ 1,767,125	$ 1,157,953	$ 1,840,139	$ 160,819	$ 1,190,845	$ 154,601	$ -	$ -	$ 6,802,164
Distribution - Copper Feeder										
buried cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
aerial cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried trenching										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
conduit										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground trenching										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
pedes										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
terminal										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
drop										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Distribution - Fiber Feeder										
buried cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
aerial cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground cable										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
buried trenching										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
conduit										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
underground trenching										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
pedes										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
terminal										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
drop										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Concentrator - non-DLC										
DLC										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SAI										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Concentrator - DLC										
DLC										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SAI										
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Feeder - Copper											
copper u/g cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper aerial cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber u/g cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber buried cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber aerial cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
conduit	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
manholes	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper u/g placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber u/g placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber buried placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
poles	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Feeder - Fiber											
copper u/g cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper aerial cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber u/g cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber buried cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber aerial cable	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
conduit	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
manholes	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper u/g placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber u/g placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
copper buried placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
fiber buried placement	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
poles	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
End Office Switching											
end office switching	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MDF/protector	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
wire center	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
land	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Signaling											
SCP	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCP wire center	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
STP	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
signaling links	Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Per-Loop Amount		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Dedicated Transport												
underground cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
buried cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
aerial cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
poles												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
conduit												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
manholes												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Dedicated Transport Transmission												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Direct Transport												
underground cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
buried cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
aerial cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
poles												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
conduit												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
manholes												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Direct Transport Transmission												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Common Transport												
underground cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
buried cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
aerial cable												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
poles												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
conduit												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
manholes												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Common Transport Transmission												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Tandem Switching												
tandem switching												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
wire center												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Operator Systems												
OS Tandem Switching												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
OS Tandem Wire Center												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
OS Trunks												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
OS Position												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Public Telephone												
Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Per-Loop Amount	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	

AB
REGULATED

	1996	COMPANY NAME:	COSI	ICO	0.2722
OTHER TAXES & UNCOLLECTIBLES CALCULATION			EXPENSES		NET REVENUES
	7230	OPERATING STATE & LOCAL INCOME TAX-NET	(532)		
	7240	OPERATING OTHER TAXES	2,871		
	5300	UNCOLLECTIBLE REVENUES			1,902
	530	NET REVENUES			182,146
		GROSS REVENUES (5300 + 530)			184,048
		UNCLL/GROSS REV			0.010334
(5300-4040(p..r))/(5081+52		UNCLL RETAIL RATE			1.76%
(4040(p))/(5082..5084)		UNCLL WHOLESALE RATE			0.28%

EXP	INV		PLANT SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. INVESTMENTS	C. EXP/INV (A/B)
			TPIS GENERAL SUPPORT			
	2111	2111	LAND		483	0.000000
	2121	2121	BUILDINGS		10,927	0
6121			TOTAL LAND & BUILDINGS	944	11,410	0.082707
6112	2112	2112	MOTOR VEHICLES	71	1,927	0 037000
6113	2113	2113	AIRCRAFT	34	0	#VALUE!
6114	2114	2114	SPECIAL PURPOSE VEHICLES	0	0	#VALUE!
6115	2115	2115	GARAGE WORK EQUIPMENT	0	16	0 000000
6116	2116	2116	OTHER WORK EQUIPMENT	21	1,685	0 012437
6122	2122	2122	FURNITURE	48	554	0.087469
6123	2123	2123	OFFICE EQUIPMENT	140	1,622	0.086074
6124	2124	2124	GENERAL PRUPOSE COMPUTERS	1,770	1,164	1.520935673
6120	2110	2110	TOTAL LAND & SUPPORT ASSETS	2,902	18,378	0.157886162
			TPIS - CENTRAL OFFICE SWITCHING			
		-	-			
6211	2211	2211	ANALOG ELECT SWITCH	22	16	1 389831
6212	2212	2212	DIGITAL ELECTRONIC SWITCHING	2,079	36,476	0.056982948
6220	2220	2220	OPERATOR SYSTEMS	4	21	0.171052632
6210	2210	22102210221022102210	CENTRAL OFFICE SWITCH	2,241	38,292	0.058532077
			TPIS - CENTRAL OFFICE TRANSMISSION			
		-	-			
6232	2232	2232	CIRCUIT EQUIPMENT	256	22,757	0.011243481
6230	2230	2230	TRANSMISSION	256	22,763	0.011240523
			TPIS - INFORMATION ORIG/TERM			
		-	-			
6311	2311	2311	STATION APPARATUS	0	0	#VALUE!
	2321	2321	CUSTOMER PREMISES WIRING		0	#VALUE!
6341	2341	2341	LARGE PRIVATE BRANCH EXCHANGE	0	0	#VALUE!
6351	2351	2351	PUBLIC TEL TERMINAL EQUIPMENT	28	0	#VALUE!
6362	2362	2362	OTHER TERMINAL EQUIPMENT	65	1,000	0 064761905
6310	2310	2310	TOTAL INFORMATION ORIG/TERM	93	3,676	0.025176279

		TPIS - CABLE & WIRE FACILITIES				
6411	2411	2411	POLES	48	1,326	0.036323
6421	2421	2421	AERIAL CABLE	341	7,186	0.047498
6422	2422	2422	UNDERGROUND CABLE	26	2,348	0.011246
6423	2423	2423	BURIED CABLE	1,547	65,434	0.023637
6441	2441	2441	CONDUIT SYSTEMS	0	1,452	0.000187441
6410	2410	2410	TOTAL CABLE & WIRE FACILITIES	1,967	77,787	0.025293
	240	240	TOTAL TPIS(BEFORE AMORTIZABLE ASSETS) (2110+2210+2220+2230+2310+2410)	3,930	158,664	0.024771228
		PLANT NON-SPECIFIC OPERATIONS EXPENSES		A. EXPENSES	B. TPIS INVESTMENT	C. EXP/INV (A/B)
6512	240	6512	PROVISIONING EXPENSES	65	158,664	0.000407
6531	240	6531	POWER EXPENSES	314	158,664	0.001981
6532	240	6532	NETWORK ADMINISTRATION	782	158,664	0.004927
6533	240	6533	TESTING	459	158,664	0.002891
6534	240	6534	PLANT OPERATIONS ADMINISTRATION	826	158,664	0.005207
6535	240	6535	ENGINEERING	317	158,664	0.001995
6540	240	6540	ACCESS EXPENSE	1,737	158,664	0.010950533
6530	240	6530	TOTAL NETWORK OPERATIONS EXPENSES	2,698	158,664	0.017003091
6561	240	6561656165616561656165616561	DEPRECIATION - TPISDEPRECIATION - TPIS	9,976 9,976 9,976 9,976	158,664 158,664 158,664	0.062874210.06287421
		NETWORK SUPPORT FACTOR CALCULATION		A. EXPENSES	B. CABLE & WIRE INV	C. EXP/INV (A/B)
6112		2112	MOTOR VEHICLES	71		
6113		2113	AIRCRAFT	34		
6114		2114	SPECIAL PURPOSE VEHICLES	0		
6115		2115	GARAGE WORK EQUIPMENT	1		
6116		2116	OTHER WORK EQUIPMENT	21		
	2410		TOTAL NETWORK SUPPORT (EXCL 2113)	93	77,787	0.001200262
		CUSTOMER OPERATIONS EXPENSES		A. EXPENSES	B. NET REVENUES	C. EXP/NET REV (A/B)
6611		6611	PRODUCT MANAGEMENT	446		CALC
6612		6612	SALES	751		CALC
6613		6613	PRODUCT ADVERTISING	112		CALC
6610		6610	TOTAL MARKETING EXPENSES	1,310		CALC
6621		6621	CALL COMPLETION SERVICE	181		CALC
6622		6622	NUMBER SERVICES	420		CALC
6623		6623	CUSTOMER SERVICES	2,036		CALC
6620		6620	TOTAL SERVICES EXPENSES	2,637		CALC
		700	TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	3,947		CALC

	CORPORATE OPERATIONS EXPENSES	A. EXPENSES	B. REVENUES	C. EXP/REV (A/B)
	= =	=	=	=
6711	6711 EXECUTIVE	115		CALC
6712	6712 PLANNING	96		CALC
6710	6710 TOTAL EXECUTIVE & PLANNING	210		CALC
6721	6721 ACCOUNTING & FINANCE	351		CALC
6722	6722 EXTERNAL RELATIONS	318		CALC
6723	6723 HUMAN RESOURCES	317		CALC
6724	6724 INFORMATION MANAGEMENT	1,837		CALC
6725	6725 LEGAL	132		CALC
6726	6726 PROCUREMENT	91		CALC
6727	6727 RESEARCH & DEVELOPMENT	138		CALC
6728	6728 OTHER GENERAL & ADMINISTRATIVE	3,610		CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	6,793		CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE	38,569		CALC
	(6710 + 6720 + 6790)			
	720 TOTAL OPERATING EXPENSES			CALC
	DEM - LOCAL	540,999		
	DEM - INTRASTATE	221,001		
	DEM - INTERSTATE	175,000		
	MESSAGES - INTRALATA	14,300		
	MESSAGES - INTERLATA - interstate	25,306		
	MESSAGES - INTERLATA - intrastate	12189		
	LOCAL CALL ATTEMPTS	154,344		
	LINES - BUSINESS	16,560		
	RESIDENTIAL	55,586		
	PUBLIC	257		
	SPECIAL	2,860		
	TOTAL	75,263		
	5081 END USER		3,280	
	5082 SWITCHED ACCESS		8,874	
	5083 SPECIAL ACCESS		1,210	
	TOTAL INTER ACCESS		13,364	
	5084 END USER			
	5084 SWITCHED ACCESS			
	5084 SPECIAL ACCESS			
	STATE ACCESS		12,894	
	TOTAL ACCESS REVENUES		26,259	

	LD MESSAGE REVENUE	
5100	INTERSTATE MESSAGE	
5100	INTRASTATE MESSAGE	
5100	INTERSTATE CALLING PLAN	
5100	INTRASTATE CALLING PLAN	
	LD MSG REV (CLASS A)	6,222
	UNIDIRECTIONAL LD	
5110	INTERSTATE	
	INTRASTATE	
	TOTAL	3
5120	LD PRIVATE NETWORK	26
	OTHER LD	
5160	INTERSTATE	
	INTRASTATE	
	TOTAL	81
	TOTAL LD NETWORK REVENUE	
	INTERSTATE	
	INTRASTATE	
	TOTAL	6,332
	BASIC LOCAL SERVICE	
5001	BASIC AREA	13,638
5002	OPTIONAL EXTEND AREA	806
5003	CELLAR MOBIL	0
5004	OTHER MOBIL SVC	0
	TOTAL BASIC SVC	14,444
	PUBLIC TELEPHONE REVENUE	
5010	LOCAL PUBLIC MSG	
	UNIVERSAL	
	PB EXCHANGE IX CARRIER	
	CC COINLESS	
	PUBLIC EXH	
	SEMI-PUBLIC	
	OTHER PUBLIC PHONE REV	
	TOTAL PUBLIC PHONE REVENUE	43

	5040	LOCAL PRIVATE LINE			72
		CUSTOMER PREMISE			
	5050	STATION APP			
		CUSTOMER PREMISE WIRING			
		TOTAL CUSTOMER PREMISES			158
		OTHER LOCAL EXCHANGE			
	5060	CO FEATURES			
		INFO TRANSPORT			
		DIRECTORY ASSIST			
		INTERCEPT SRVC			
		OTHER LOC EXCH			
		TOTAL OTHER			1,336
		TOTAL LOCAL NETWORK SRVC REVENUE			
		INTERSTATE			
		INTRASTATE			16052.995
		TOTAL REVENUE			48643.501
CAPITAL STRUCTURE PARAMETERS					
		DEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIODEBT/EQUITY RATIO			
		COST OF DEBT			
		COST OF EQUITY			
			BALANCE SHEET 43-02,B-1 AVG=(ab+af)/2 A	ACCRUEL 43-02,B-5 (col 2C) B	DEPR LIFE (ASSUMING STRAIGHT LIFE) C = (A/C)
		-	-	-	-
		ECONOMIC LIFE			
(2422,21,22,23,41)		FEEDER			
(2422,21,22,23,41)		DISTRIBUTION			
	2121	BUILDINGS			
	2232	DLC ELECTRONIC EQUIPMENT			
	2212	EO SWITCHING			
	2212	TANDEM SWITCHING			
	2220	OS POSITIONS			
	2220	OS TANDEM			
	2232	TRANSMISSION SYSTEMS			
	2351	PUBLIC TELEPHONE EQUIPMENT			
2122,2124		FURNITURE + GP COMPUTERS			

	||||| DATA SOURCE		sum check				
	ARMIS 4303ARMIS 4303	JAN 1996 TO DEC 1996JAN 1996 TO DEC 1996	495495495495495495	495495495495495495495495495495495495495495495		
	ARMIS 4304	IOWA	9010	9010		
	ARMIS 4308	GCIA	(EJ)	(EJ)		
	DEM					
	=	=	=	=	=	
	UNCOLL RATE:	BA Lcl Svc	4303,Ln 520			16052.4506
		LD Ntwk Svs Rev	4303,Ln 525			6328.3778
		End User	4303,Ln 5081			3280.2822
		Sw Acc	4303,Ln 5082			8874.2644
		Spcl Acc	4303,Ln 5083			1209.6568
		St Acc	4303,Ln 5084			12894.3862
		Uncoll Rev	4303,Ln 5300			517.7244
		Tot Acc	4304,Ln4040 (P)			64.5114
		B&C	4304,Ln4040 (Q)			0.8166
		IX	4304,Ln4040 (R)			0
		Ln4040 (P+Q+R)	Calc (P+Q+R)			65.328
	Uncoll -Acc	5300-(4040p r)	1a			452.3964
	End User+ Revs	5081+520+525	1b			25661.1106
	Uncoll Retail Rate		1c=(a/b)			0.01762965
	Uncoll Wholesale rate	4040p/(5082 5084)	2a			0.002807491
	=	=	=	=	=	
	* REVENUE, EXP & INV DATA		4308 (DJ)	% to Total		
	FROM THE 4303 WERE	Companies	AccLns	Cosa Group		
??	DERIVED FROM TOT LINE					
??	RATIO FROM 4308					
??						
??	** LINES DERIVED USING					
??	ARMIS 4301 LINE DATA					
266 ??	CALLS DERIVED USING NECA					
267	DEM DATA	GTIA+COIA+COSI	265970			1
268						1
269	=	=	=	=	=	

Actuals for 1996 ($000s)

	Investments	Expenses	Calculated Factor		
Plant-Specific Operations Expenses					
TPIS - General Support					
2111 Land	$ 483	$ 13	0 0276		0 0276
2112 Motor Vehicles	$ 1,927	$ 53	0 0276		0 0276
2113 Aircraft	$ 0	$ 0	0 0276		0 0276
2114 Special Purpose Vehicles	$ 0	$ 0	0 0276		0 0276
2115 Garage Work Equipment	$ 16	$ 0	0 0276		0 0276
2116 Other Work Equipment	$ 1 685	$ 47	0 0276		0 0276
2121 Buildings	$ 10,927	$ 990	0 0906	Land & Bldg Exp Applied to Bldgs	0 0906
2122 Furniture	$ 554	$ 50	0 0906		0 0906
2123 Office Equipment	$ 1,622	$ 147	0 0906		0 0906
2124 General Purpose Computers	$ 1,164	$ 105	0 0906		0 0906
2110 Total Land & Support Assets	$ 18,379	$ 1,406	0 0765		0
TPIS - Central Office Switching					
2211 Analog Electronic Switching	$ 16	$ 1	0 0558		0 0558
2212 Digital Electronic Switching	$ 36,476	$ 2 035	0 0558	5 58% NET CO Switch F	0 0558
2210 Total Central Office Switching	$ 36,492	$ 2,036	0 0558		0 0485
2220 Operator Systems	$ 21	$ -	-		
TPIS - Central Office Transmission					
2231 Satellite & Earth Station Facilities					0 0204
2231 Other Radio Facilities					0 0171
2231 Radio Systems					0 013
2232 Circuit Equipment	$ 22,757	$ 455	0 0200	2 00% alternative factor	0 02
2230 Total Central Office Transmission	$ 22,757	$ 455	0 0200		0 02
TPIS - Information Orig/Term					
2311 Station Apparatus	$ -	$ -	0 0000		
2321 Customer Premises Wiring	$ -	$ -	0 0000		
2341 Large Private Branch Exchange	$ -	$ -	0 0000		
2351 Public Telephone Terminal Equipment	$	$ -	0 0000		
2362 Other Terminal Equipment	$ 1 000	$ -	-		
2310 Total Information Orig/Term	$ 1 000	$ -	-		
TPIS - Cable & Wire Facilities					
2411 Poles	$ 1 326	$ 29	0 0219		0 0219
2421 Aerial Cable	$ 7 186	$ 481	0 0669		0 0669
2422 Underground Cable	$ 2 348	$ 49	0 0210		0 021
2423 Buried Cable	$ 65 434	$ 2 918	0 0446		0 0446
2424 Submarine Cable					
2425 Deep Sea Cable					
2426 Intrabuilding Network Cable					
2431 Aerial Wire					
2441 Conduit Systems	$ 1 452	$ 8	0 0058		0 0058
2410 Total Cable & Wire Facilities	$ 77,747	$ 3,486	0 0448		
240 Total TPIS (before amortizable assets)	$ 138,017	$ 7 383	0 0535		

Alternative Cable Maintenance Factors	
Fiber	Copper
0 0073	0 0689
0 0084	0 0210
0 0061	0 0448

Plant Non-Specific Operations Expenses

	Expenses	Investment	Factor		
6512 Provisioning Expenses	$ -	$ 138,017	0 0000		
6531 Power Expenses	$ -	$ 138 017	0 0000	0 00% all	
6532 Network Administration	$ -	$ 138 017	0 0000	0 00% switching, interoffice	
6533 Testing	$ -	$ 138 017	0 0000	0 00% all	
6534 Plant Operations Administration	$ -	$ 138 017	0 0000	0 00% all	
6535 Engineering	$ -	$ 138 017	0 0000	0 00% all	
6540 Access Expense					
6530 Total Network Operations Expenses (includes provisioning)	$ 0	$ 138 017	0 0000	per line network operations	(=total ARMIS 6530/total lines)
				total lines (from net invest inputs)	72 201
				annual net ops per line	$ 0 00

Network Support Factor Calculation

	Expenses	Cable & Wire Inv	Factor
6112 Motor Vehicles	$ 53		
6113 Aircraft	$ 0		
6114 Special Purpose Vehicles	$ 0		
6115 Garage Work Equipment	$ 0		
6116 Other Work Equipment	$ 47		
Aircraft & Special Purpose Vehicles	$ 100	$ 77,747	0 0013

Customer Operations Expenses

	Expenses		Net Revenues	Factor	
6611 Product Management *	$ -	$ -	$ 1	-	0
6612 Sales *	$ -	$ -	$ 1	-	0
6613 Product Advertising	$ -		$ 1	-	0
6610 Total Marketing Expenses	$ -			-	
6621 Call Completion Service	$ -		$ 1	-	0
6622 Number Services	$ -	$ -	$ 1	-	0
6623 Customer Services	$ -	$ -	$ 1	-	0
6620 Total Services Expenses	$ -	$ -		-	
Billing/bill inquiry (per line/month)	$ -				
Directory listing (per line/month)	-				
700 Total Customer Operations Expenses	$ -		$ 1	-	

Corporate Operations Expenses

	Expenses	Revenues	Factor	
6711 Executive	$ -	$ 1	-	0
6712 Planning	$ -	$ 1	-	0
6710 Total Executive & Planning	$ -	$ 1	-	
6721 Accounting & Finance	$ -	$ 1	-	0
6722 External Relations	$ -	$ 1	-	0
6723 Human Resources	$ -	$ 1	-	0
6724 Information Management	$ -	$ 1	-	0
6725 Legal	$ -	$ 1	-	0
6726 Procurement	$ -	$ 1	-	0
6727 Research & Development	$ -	$ 1	-	0
6728 Other General & Administrative	$ -	$ 1	-	0
6720 Total General & Administrative	$ -	$ 1	-	0
		$ 1		
710 Total Corporate Operations Expense	$ -	$ 1	-	
720 Total Operating Expenses	$ 7 381	$ 1		
note does not include dep/amort				

32 31% Total Operations General Support Allocator
67 69% "Office Worker" General Support Allocator

Misc Expenses Calculation	2122 Furniture	2123 Office Equipment	2124 GP Computer	2112 Motor Vehicles	2121 Buildings	2115 Garage Work Equipment	2116 Other Work Equipment
Investment	$ 554	$ 1 622	$ 1 164	$ 1 927	$ 5 464	$ 16	$ 1 685
Investment/TPIS	0 004	0 012	0 008	0 014	0 040	0 000	0 012
Expense	$ 50	$ 147	$ 105	$ 53	$ 495	$ 0	$ 47
Expense Factor	0 091	0 091	0 091	0 028	0 091	0 028	0 028
Model TPIS	$ 231 034	$ 231 014	$ 231 014	$ 231 034	$ 231 034	$ 231 034	$ 231 034
Calculated Investment	$ 927	$ 2 716	$ 1 948	$ 3 226	$ 9 146	$ 27	$ 2 821
Calculated Expense	$ 84	$ 246	$ 176	$ 89	$ 829	$ 1	$ 78
Subtotal ($s)	$ 903 756						
Total Misc Expense	$ 903 756						

Other Taxes & Uncollectibles Calculation

	Expenses	Net Revenues	Factor
7230 Operating State & Local Income Tax	$ (532)	$ (2 303)	
7240 Operating Other Taxes	$ 2 871	$ (2,303)	0 0500
5300 Uncollectible Revenues	$ 1 902	$ 1	1902 0000
retail			0 0176
wholesale			0 0028

Ratio of Net Plant to TPIS

TPIS	$	138 017
Net Plant	$	138 017
Ratio	$	1
Model Investment	$	-
Model % of Net Plant	$	-
Model % of TPIS		0%

Actual 1996 Revenue

			% of total
Interstate Access			
5081 End User	$	3,280	9.18%
5082 Switched Access	$	8,874	24.82%
5083 Special Access	$	1,210	3.38%
Total Inter Access	$	13,364	37.38%
State Access Revenue			
5084 End User	$	-	0.00%
5084 Switched Access	$	-	0.00%
5084 Special Access	$	-	0.00%
Total State Access	$	-	0.00%
Total Access Revenue	$	13,364	37.38%
Long Distance Network Revenue			
5100 Interstate Message	$	-	0.00%
5100 Intrastate Message	$	-	0.00%
5100 Interstate Calling Plan	$	-	0.00%
5100 Intrastate Calling Plan	$	-	0.00%
Total LD Msg Revenue	$	6,222	17.41%
Unidirectional LD Revenue			
5110 Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	3	0.01%
LD Private Network Revenue			
5120 Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	26	0.07%
Other Long Distance Revenue			
5160 Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	81	0.23%
Total Long Distance Network Rev			
Interstate	$	-	0.00%
Intrastate	$	-	0.00%
Total	$	6,332	17.71%

Basic Local Service				
5001	Basic Area	$	13,638	38.15%
5002	Optional Extended Area	$	806	2.25%
5003	Cellular Mobile	$	-	0.00%
5004	Other Mobile Svcs	$	-	0.00%
	Total Basic Local Service	$	14,444	40.40%
Public Telephone Revenue				
5010	Local Public Msgs	$	-	0.00%
	Universal Public Phone	$	-	0.00%
	Public Exchange - IX Carrier	$	-	0.00%
	Credit Card Coinless	$	-	0.00%
	Public Exchange - CPE	$	-	0.00%
	Semi-Public Msgs	$	-	0.00%
	Other Public Phone Revenue	$	-	0.00%
	Total Public Phone Revenue	$	43	0.12%
Local Private Line Revenue				
5040	Interstate	$	-	0.00%
	Intrastate	$	-	0.00%
	Total Private Line	$	72	0.20%
Customer Premises Revenue				
5050	Station Apparatus	$	-	0.00%
	Customer Premises Wiring	$	-	0.00%
	Total Customer Premises	$	158	0.44%
Other Local Exchange Revenue				
5060	Central Office Features	$	-	0.00%
	Information Transport	$	-	0.00%
	Directory Assistance	$	-	0.00%
	Intercept Services	$	-	0.00%
	Other Loc Exchg	$	-	0.00%
	Total Other	$	1,336	3.74%
Total Local Network Service Revenue				
	Interstate	$	-	0.00%
	Intrastate	$	16,053	44.90%
Total Revenue		$	35,749	100.00%